PLANNING COMMISSIONERS

JEFFREY BARNES Chair

PATRICIA KORZEC Vice-Chair

RAY L. BAKER Commissioner



JEFFREY SIMS Commissioner

BRIAN LOWELL Commissioner

> VACANT Commissioner

VACANT Commissioner

PLANNING COMMISSION Special Meeting

Agenda

Thursday, December 21, 2017 at 7:00 PM City Hall Council Chamber – 14177 Frederick Street

CALL TO ORDER

ROLL CALL

PLEDGE OF ALLEGIANCE

APPROVAL OF AGENDA

Approval of Agenda

CONSENT CALENDAR

All matters listed under Consent Calendar are considered to be routine and all will be enacted by one roll call vote. There will be no discussion of these items unless Members of the Planning Commission request specific items be removed from the Consent Calendar for separate action.

APPROVAL OF MINUTES

Planning Commission - Regular Meeting - Oct 26, 2017 7:00 PM

Planning Commission - Regular Meeting - Nov 9, 2017 7:00 PM

PUBLIC COMMENTS PROCEDURE

Any person wishing to address the Commission on any matter, either under the Public Comments section of the Agenda or scheduled items or public hearings, must fill out a "Request to Speak" form available at the door. The completed form must be submitted to the Secretary prior to the Agenda item being called by the Chairperson. In speaking to the Commission, member of the public may be limited to three minutes per person, except for the applicant for entitlement. The Commission may establish an overall time limit for comments on a particular Agenda item. Members of the public must direct their questions to

Upon request, this agenda will be made available in appropriate alternative formats to persons with disabilities, in compliance with the Americans with Disabilities Act of 1990. Any person with a disability who requires a modification or accommodation in order to participate in a meeting should direct such request to Guy Pegan, ADA Coordinator, at 951.413.3120 at least 72 hours before the meeting. The 72-hour notification will enable the City to make reasonable arrangements to ensure accessibility to this meeting.

the Chairperson of the Commission and not to other members of the Commission, the applicant, the Staff, or the audience.

NON-PUBLIC HEARING ITEMS

PUBLIC HEARING ITEMS

1.	Case:	PEN16-0107 Plot Plan
	Applicant:	Gary Wang & Associates
	Owner:	Yum Yum Donut Shop Inc.
	Representative:	Grachel Cornelio of Gary Wang & Associates
	Location:	Northwest corner of Alessandro Boulevard and Day Street
	Case Planner:	Gabriel Diaz
	Council District:	1
	Proposal:	Plot Plan for a proposed 4,236 square foot donut shop/convenience store

STAFF RECOMMENDATION

Staff recommends that the Planning Commission **APPROVE** Resolution No. 2017- 43, and thereby:

- 1. **CERTIFY** that the proposed Plot Plan is exempt from the provisions of the California Environmental Quality Act (CEQA), as a Class 32 Categorical Exemption, CEQA Guidelines, Section 15332 (In-Fill Development); and
- 2. **APPROVE** Plot Plan PEN16-0107 based on the findings contained in Planning Commission Resolution 2017- 43, subject to the conditions of approval included as Exhibit A of the Resolution.

2.	Case:	PEN16-0113 Plot Plan
	Applicant:	Alisam Moreno, LLC
	Owner:	SH-60 at Heacock Street, LLC
	Representative:	Bijan Shahmoradi
	Location:	North side of Sunnymead Boulevard, west of Heacock

	Street, south of State Highway 60
Case Planner:	Gabriel Diaz
Council District:	1
Proposal:	Plot Plan for a new 5,430 square foot automated car wash facility

STAFF RECOMMENDATION

- A. Staff recommends that the Planning Commission **APPROVE** Resolution No. 2017-44, and thereby:
 - 1. **CERTIFY** that the Mitigated Negative Declaration prepared for Plot Plan PEN16-0113 on file with the Community Development Department, incorporated herein by this reference, has been completed in compliance with the California Environmental Quality Act, that the Planning Commission reviewed and considered the information contained in the Mitigated Negative Declaration and the document reflects the City's independent judgment and analysis; attached hereto as Exhibit A; and
 - 2. **ADOPT** the Mitigation Monitoring and Reporting Program prepared for Plot Plan PEN16-0113, attached hereto as Exhibit B.
- B. Staff recommends that the Planning Commission **APPROVE** Resolution No. 2017-45, and thereby:
 - 1. **APPROVE** Plot Plan PEN16-0113 based on the findings contained in this resolution, and subject to the conditions of approval included as Exhibit A.

OTHER COMMISSION BUSINESS

STAFF COMMENTS

PLANNING COMMISSIONER COMMENTS

ADJOURNMENT

Planning Commission Regular Meeting, January 25, 2018 at 7:00 P.M., City of Moreno Valley, City Hall Council Chamber, 14177 Frederick Street, Moreno Valley, CA 92553.

1 2	CITY OF MORENO VALLEY PLANNING COMMISSION REGULAR MEETING
3	CITY HALL COUNCIL CHAMBER – 14177 FREDERICK STREET
4	
5	Thursday, October 26, 2017 at 7:00 PM
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7	
8	CALL TO ORDER
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11	CHAIR BARNES – Good evening ladies and gentlemen. I would like to call to
12	order this regular-scheduled meeting of the Planning Commission to order. It is
13	Thursday, October 26, 2017, and the time is 7:12 PM. Ashley, could we have roll
14	call please?
15 16	
16 17	ROLL CALL
17	KOLL CALL
19	Commissioners Present:
20	Commissioner Lowell
21	Commissioner Baker
22	Commissioner Sims
23	Vice Chair Korzec
24	Chair Barnes
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26	
27	Staff Present:
28	Rick Sandzimier, Planning Official
29	Ashley Aparicio, Recording Secretary/Administrative Assistant
30	Jeff Bradshaw, Associate Planner
31	Michael Lloyd, Traffic Engineer
32	Paul Early, Assistant City Attorney
33	Claudia Manrique, Associate Planner
34 25	
35 36	Speakers
30 37	<u>Speakers:</u> Rafael Brugueras
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38 39	
40	PLEDGE OF ALLEGIANCE
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43	CHAIR BARNES – The next item on the Agenda is the Pledge of Allegiance.
44	Could you all stand and face the flag?

4	
5	Approval of PC Agenda of October 26, 2017
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7	CHAIR BARNES - Thank you. Next item is the approval of the Agenda for
8	October 26, 2017. That's probably not right.
9	

APPROVAL OF THE AGENDA

- **COMMISSIONER SIMS** I'll make a motion to approve the Agenda.
- **<u>COMMISSIONER BAKER</u>** And I'll second.
- **CHAIR BARNES** Yeah, what date are we approving?
- **<u>COMMISSIONER SIMS</u>** Well approval of today's Agenda.
- **<u>COMMISSIONER BAKER</u>** Not the Minutes.
- **CHAIR BARNES** Oh, the Agenda, duh.
- **<u>COMMISSIONER SIMS</u>** You're doing it.
- **<u>CHAIR BARNES</u>** Once again, the Chair has fallen down.
- **<u>COMMISSIONER BAKER</u>** It's okay. Move on.
- **CHAIR BARNES** My apologies. We had a motion from Commissioner Sims.
- **<u>COMMISSIONER LOWELL</u>** I'll second.
- **CHAIR BARNES** Two seconds, Commissioners Baker and Lowell.
- **<u>COMMISSIONER LOWELL</u>** Come on, Patricia. Get in on it.
- **<u>VICE CHAIR KORZEC</u>** I'll third it, alright, fine.
- 38 PLANNING OFFICIAL RICK SANDZIMIER We're going to try this system that
 39 we explained to you at the beginning, so the motion and the second.
- **CHAIR BARNES** – Alright.

- <u>••••••</u>••••
- 43 <u>ADMINISTRATIVE ASSISTANT ASHLEY APARICIO</u> The motion was...
 44
- **PLANNING OFFICIAL RICK SANDZIMIER** From Commissioner Sims.

- Minutes Acceptance: Minutes of Oct 26, 2017 7:00 PM (APPROVAL OF MINUTES)
- **CHAIR BARNES** – Commissioner Sims made a motion. PLANNING OFFICIAL RICK SANDZIMIER – Seconded by Lowell. **COMMISSIONER LOWELL** – So the Chair no longer runs the vote button? CHAIR BARNES – No. PLANNING OFFICIAL RICK SANDZIMIER - Yeah, we're adopting to the City Clerk's.... CHAIR BARNES – There's a new sheriff in town, so please vote. So, all votes have been cast. The ... end the vote. **COMMISSIONER LOWELL** – It's a learning curve. **CHAIR BARNES** – The motion carries 5-0. Opposed - 0 Motion carries 5 – 0 PLANNING OFFICIAL RICK SANDZIMIER – Mr. Chair, just, if I may..... CHAIR BARNES - Yes. **PLANNING OFFICIAL RICK SANDZIMIER** – Just for the record, since we are live on TV and some people may be observing us, I do want to mention then, for the rest of the people here and Commissioner Lowell has just arrived, we are trying to adopt the same process that the City Clerk's Office is using with the recording secretary, so if we go through a couple of little glitches this evening, I just want to apologize up front. I also want to take a second just to introduce Ashley Aparicio. She is our new recording secretary and administrative assistant in our Planning Division. Thank you. **CHAIR BARNES** – Well welcome, Ashley, and thank you very much for your help this evening. ADMINISTRATIVE ASSISTANT ASHLEY APARICIO – You're welcome. **CONSENT CALENDAR**

1 2	All matters listed under Consent Calendar are considered to be routine and all will be enacted by one rollcall vote. There will be no discussion of these items
3 4 5	unless Members of the Planning Commission request specific items be removed from the Consent Calendar for separate action.
6 7 8	APPROVAL OF MINUTES
9 10	Planning Commission - Regular Meeting – August 24, 2017 at 7:00 PM
11 12 13 14	<u>CHAIR BARNES</u> – The next item on the Agenda is the Consent Calendar. The only item being the approval of the Minutes from the meeting of August 24, 2017.
14 15 16	COMMISSIONER BAKER – I'll make a motion.
10 17 18	VICE CHAIR KORZEC – I'll second.
19 20 21	<u>CHAIR BARNES</u> – A motion from Commissioner Baker. A second from Commissioner Korzec.
22 23 24	<u>COMMISSIONER LOWELL</u> – I was not present at that meeting, so I will be abstaining.
25 26 27	<u>CHAIR BARNES</u> – And Commissioner Lowell will not be voting because he was not in attendance, so please vote. The motion carries 4-0 with one abstention.
28 29 30	Opposed – 0
31 32 33	Motion carries $4 - 0 - 1$ with one abstention
34 35 26	PUBLIC COMMENTS PROCEDURE
 36 37 38 39 40 41 42 43 44 45 46 	Any person wishing to address the Commission on any matter, either under Public Comments section of the Agenda or scheduled items or public hearings, must fill out a "Request to Speak" form available at the door. The completed form must be submitted to the Secretary prior to the Agenda item being called by the Chairperson. In speaking to the Commission, member of the public may be limited to three minutes per person, except for the applicant for entitlement. The Commission may establish an overall time limit for comments on a particular Agenda item. Members of the public must direct their questions to the Chairperson of the Commission and not to other members of the Commission, the applicant, the Staff, or the audience. Upon request, this Agenda will be made

1 available in appropriate alternative formats to persons with disabilities in 2 compliance with the Americans with Disabilities Act of 1990. Any person with a 3 disability who requires a modification or accommodation in order to participate in 4 a meeting should direct their request to Guy Pegan, ADA Coordinator, at (951) 413-3120 at least 72 hours prior to the meeting. The 72-hour notification will 5 6 enable the City to make reasonable arrangements to ensure accessibility to this 7 meeting. 8 9

- 10 **CHAIR BARNES** Moving on. The next item on the Agenda is the Public 11 Comments portion of the meeting.
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- 13 **ADMINISTRATIVE ASSISTANT ASHLEY APARICIO** We do have one.
- 15 **CHAIR BARNES** We have one speaker. If you could call him forward please.

ADMINISTRATIVE ASSISTANT ASHLEY APARICIO – Rafael Brugueras. I
 apologize.

- 20 **CHAIR BARNES** Brugueras. You'll learn to pronounce it because he will.....
- 22 ADMINISTRATIVE ASSISTANT ASHLEY APARICIO Thank you.
- 24 **CHAIR BARNES** Speak on occasion.
- 26 **SPEAKER RAFAEL BRUGUERAS** Welcome aboard, Ashley.
- 27

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28 **ADMINISTRATIVE ASSISTANT ASHLEY APARICIO** – Thank you.

30 **SPEAKER RAFAEL BRUGUERAS** – Chair, Commissioners, Staff, and guests, I'm the only resident here tonight. I'm grateful to be back in the chamber again 31 32 from Tuesday because that was an exciting meeting. One out of the two got passed and that is going to be pertaining to this Planning Commission. It is a 33 34 shame that we couldn't get the ban extended because that would've helped the 35 staff to have a little more time to make sure everything that they are going to be doing with Allen Brock, Rick Sandzimier, to make sure that when you get a 36 37 project to be built in this city or an entrepreneur to bring a business to sell 38 marijuana you'll be prepared. So I'm hoping that, as the months we wait for this 39 bill to come out and to get approved, that somehow you'll be ready and trained in this area to understand what some of these entrepreneurs and developers want 40 41 from us because it could harm the city. It could also help the city. It was a good 42 fight Tuesday. I learned a lot. I learned that pride can get in the way also. I'm hoping that it never happens to this government. This is one of the governments 43 44 that I fought for when I was talking on Tuesday. This is a very important 45 government. Each one of you plays a great role in our city in all parts, not just one district but all four districts. That includes the whole city, all 210,000 of us. 46

1 2 3 4 5 6 7 8	pre go wit ma fut	epare your hearts and your mi ing to be in the next month or i th the new laws, the new rule arijuana to flow through our cit	d the Staff here is very important to us. So nds as things come forward. I don't know if it's in the New Year, but we as a city must be ready s, and how to distribute and allow the sales of ty. Let's think about what we want to do in the I am thankful that Brian made it. I'm glad when bod thing. Thank you.
8 9	<u>CH</u>	IAIR BARNES – Thank you, M	Ir. Brugueras. No other speakers?
10 11	<u>AC</u>	MINISTRATIVE ASSISTANT	ASHLEY APARICIO – No other speakers, Sir.
12 13 14 15		IAIR BARNES – Thank you. e have none, right Rick?	Next on the Agenda, Non-Public Hearing Items.
15 16 17	<u>PL</u>	ANNING OFFICIAL RICK SA	NDZIMIER – We have none.
 19 20 21 22 23 24 25 26 27 28 29 	<u>С⊦</u> ар		c Hearing Items: Case 1, PEN16-0050, an dings, Inc. Do we have a Staff Report?
30 31	1.	Case:	PEN16-0050 (PA16-0009)
32 33		Applicant:	MACJONES Holdings, Inc.
34 35		Owner:	MACJONES Holdings, Inc.
36 37		Representative:	Thienes Engineering, Inc.
38 39 40		Location:	South side of Cottonwood Avenue at Lakeport Drive
41 42		Case Planner:	Jeff Bradshaw
43 44 45		Council District:	3

1 Proposal: Proposed Tentative Tract Map to subdivide 10 2 acres of vacant RA-2 zoned land into 16 3 single-family residential lots, and three lettered 4 lots for water quality treatment facilities. 5 6 7 8 9 STAFF RECOMMENDATION 10 A. Staff recommends that the Planning Commission **APPROVE** Resolution No. 11 12 2017-34 and thereby: 13 14 1. **CERTIFY** that the Mitigated Negative Declaration prepared for Tentative Tract Map 37060 (PEN16-0050) on file with the Community Development 15 Department, incorporated herein by this reference, has been completed in 16 compliance with the California Environmental Quality Act, that the 17 Planning Commission reviewed and considered the information contained 18 in the Mitigated Negative Declaration and the document reflects the City's 19 20 independent judgment and analysis, attached hereto as Exhibit A and; 21 22 2. ADOPT the Mitigation Monitoring and Reporting Program prepared for 23 Tentative Tract Map 37060 (PEN16-0050), attached hereto as Exhibit B. 24 25 B. Staff recommends that the Planning Commission **APPROVE** Resolution No. 26 2017-35 and thereby: 27 28 1. APPROVE Tentative Tract Map 37060 (PEN16-0050) based on the 29 findings contained in this Resolution, and subject to the Conditions of 30 Approval included as Exhibit A. 31 32 33 34 35 PLANNING OFFICIAL RICK SANDZIMIER - We do. Associate Planner, Jeff 36 Bradshaw will be giving your this presentation. 37 38 **ASSOCIATE PLANNER JEFF BRADSHAW** – Good evening, Chair Barnes, and 39 Members of the Planning Commission. As you introduced, Chair Barnes, the Applicant, MACJONES, has submitted a subdivision application to the City for 40 41 approval of Tentative Tract Map 37060. This subdivision proposes to develop 16 42 lots on a 10-acre site that is located on the south side of Cottonwood Avenue and approximately 700 feet east of LaSalle. The site is currently vacant. It has been 43 maintained in recent history through weed abatement and is surrounded by 44 comparable types of development. The land to the west has been developed 45 with similar half-acre lots in the RA-2 Zone. The project site is zoned RA-2. The 46

1 land to the east, in a similar fashion, has either been subdivided or developed 2 with half-acre home sites and the properties to the north and south, as you can see in the exhibit, have been developed with tract homes in the R5 Zone. The 3 4 Applicant is asking the City to support a subdivision here that is consistent with 5 the RA-2 Zone. The 16 lots that are being proposed are all at least 20,000 square feet in size, which is consistent with that zone. Again, surrounding 6 7 properties have been developed or subdivided with comparable lots and so the 8 proposal is consistent with the General Plan, the zoning for the site, and with 9 existing or established development for that area. Staff worked in the preparation of a Mitigated Negative Declaration for the project and through the 10 completion of an initial study we determined that, with mitigation, this project 11 12 would not result in any significant environmental impacts. A Mitigated Monitoring 13 Program was also prepared for the project to ensure implementation of those Mitigation Measures. The project.....excuse me.....notice for the project was 14 completed by our City Standard with a publication in the newspaper, notifying the 15 preparation of the Mitigated Negative Declaration. The site was posted 10 days 16 17 in advance of the hearing, and notices were sent out to property owners within 300 feet of the site as well. As of tonight, I have received only one phone call in 18 19 response to those noticing efforts. It was a property owner that lives in a home 20 immediately to the west. His property would back to this development. He stated he was in support of the project and just had questions about the 21 22 availability of sewer service to that area. With that, Staff would....Staff's 23 recommendation to the Planning Commission would be to certify the 24 environmental documentation that has been prepared for the project and to 25 approve the Tract Map as conditioned and as presented to you this evening. 26 That concludes my report. I'd be happy to answer any guestions that you might 27 have.

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<u>CHAIR BARNES</u> – Thank you, Jeff. Would the Commissioners like to ask any questions? Would the Applicant like to make a statement?

- 32 **<u>COMMISSIONER SIMS</u>** Sorry. I do have my, the red light on. So lots C and D 33 are the water quality lots that are small detention basins, I assume?
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- ASSOCIATE PLANNER JEFF BRADSHAW Yes, in this case, a little bit unique proposal for the water quality treatment. Rather than a single basin, there are three water quality treatment facilities proposed. There is a linear treatment facility on lot 1 along the street frontage, and then lots 12 and 13 both have water treatment facilities in lettered lots on both those sites.
- 40

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- 41 <u>COMMISSIONER SIMS</u> And those lettered lots, they are maintained by the
 42 City or is that an HOA or how is that taken care of?
- 44 **ASSOCIATE PLANNER JEFF BRADSHAW** They would be maintained by the 45 City but with an HOA required of the project, like with other subdivisions as a

backup or support to that process with the City being compensated through that
 HOA.

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4 **<u>COMMISSIONER SIMS</u>** – Thank you.

6 **CHAIR BARNES** – Any other questions? Would the Applicant like to make a presentation or a statement?

APPLICANT DAN WEBB – Hello, my name is Dan Webb from MACJONES. I
 just want to thank everybody for coming, and I want to thank the Planning
 Department for working well with my team, and I really have nothing else to add.
 I think it's a really nice project for the area, and it fits in well with the zoning and
 fits in well with the neighbors, and I think it should go well.

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15 **CHAIR BARNES** – Thank you.

16
 17 COMMISSIONER LOWELL – I have a question for you. The last Tentative Map
 18 expired. What is your timeframe for this project? Do you envision sitting on it for
 19 a few years or are you ready to dig a shovel of dirt tomorrow?

20

21 **APPLICANT DAN WEBB** – It depends on the market. It's really close right now 22 in terms of, you know, since you're requiring me to have such large acreage, it 23 puts it up into a pretty.....it's, you know, I was lucky to buy the land at a pretty 24 attractive price and that benefit can be passed through to the City of Moreno 25 Valley because I could afford to keep these big lots where a lot of other people 26 can't. The market is like right there, and so my goal is to do it in the next year or 27 two, but I am just really identifying the comps right now and seeing if I can make 28 some money on it.

- 29
- 30 **<u>COMMISSIONER LOWELL</u>** Thank you.

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 32 <u>CHAIR BARNES</u> – Any other questions. If not, while you think about it, I have a
 33 couple of questions. On one of the previous meetings we had discussed, I
 34 thought, adding the number of extensions to the condition that addresses the
 35 expiration date of the map.

36

PLANNING OFFICIAL RICK SANDZIMIER – Mr. Chair, are you....I apologize
 for maybe interrupting, but are you going to be talking about the project and
 deliberating the project or would you like to conduct the Public Hearing first
 because it does require a Public Hearing.

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42 <u>CHAIR BARNES</u> – Yeah, thank you. Don't we normally ask questions of the
 43 Staff?
 44

45 <u>**PLANNING OFFICIAL RICK SANDZIMIER**</u> – That's why I was trying to get 46 clarification there. If you were going to be asking Staff questions or if you're

1 getting into deliberations about the Conditions of Approval and the project as a 2 whole but, if it is still questions for Staff, that's appropriate, I quess.

3

4 **<u>CHAIR BARNES</u>** – Well, they are questions regarding the conditions, but I wouldn't call them deliberation. It's just clarifications.

- 7 PLANNING OFFICIAL RICK SANDZIMIER Okay.
- 8 9

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CHAIR BARNES – Is that appropriate?

- 10
- PLANNING OFFICIAL RICK SANDZIMIER That's fine.
 12

13 <u>CHAIR BARNES</u> – Okay, alright. Well, how many extensions would a project
 14 like this be entitled to?

- ASSOCIATE PLANNER JEFF BRADSHAW The total map life under the Map Act would be eight years, and so there would be an opportunity under separate applications to extend the life for a total of five and, by our Code, it would be three years at a time. So the next extension would be three and then two.
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- 21 <u>CHAIR BARNES</u> Okay, so two more extensions, one 3-year and one 2-year.
 22 Okay.
- 23
- 24 **ASSOCIATE PLANNER JEFF BRADSHAW** Yes.

<u>CHAIR BARNES</u> – Okay, alright. And then Condition P9 talks about the
 developer shall submit to review a document to convey title. Is that for the
 WQMP basins? I was a little unclear as to what they were conveying title to.

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ASSOCIATE PLANNER JEFF BRADSHAW – That, I believe, is something we
 want to correct in the conditions. In this case, the other intent of the HOA would
 be to retain fee ownership of the basins, not to turn those over to the City, so (A)
 I do not see as being applicable in this case.

35 <u>CHAIR BARNES</u> – Okay, alright. Thank you. Condition P11 makes reference to
 36 a Slope Erosion Plan. What....l'm not familiar with that plan. Is that something
 37 that Land Development now requires or?
 38

- ASSOCIATE PLANNER JEFF BRADSHAW I apologize, Chair Barnes. I was
 making notes in my conditions. Do you mind repeating the question?
- 41
- 42 **<u>CHAIR BARNES</u>** Yeah, Condition P11, prior to Grading Permit issuance, that 43 condition makes a reference to a Slope Erosion Plan.

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- 1 **ASSOCIATE PLANNER JEFF BRADSHAW** – Yes, so Planning would require landscape and erosion, irrigation rather, for slopes that are over this three feet in 2 3 height. It'd be private slopes in the rear yards.
- 4
- 5 **CHAIR BARNES** – Okay.
- 6

ASSOCIATE PLANNER JEFF BRADSHAW – I can't recall in this tract if that

7 8 applies. I know there are some transition slopes, but that is the intent of the 9 condition is to capture private slopes.

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CHAIR BARNES – Okay, I just....that term was not clear to me, so alright. 11 12 Thank you. Then, Condition P18 requires that knuckles and cul-de-sac lots 13 provide off street parking for at least three cars. Is that unique to this project or is 14 that a condition that will be.....

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ASSOCIATE PLANNER JEFF BRADSHAW – That is a condition that is an 16 extension of a concern of the Planning Commission from some years ago. I 17 don't know if anyone is seated on the Commission now that spoke to that but 18 19 during the mid 2000's when development was moving very quickly, there was a 20 concern that the subdivisions, as they were being proposed, were not provided adequate parking within the neighborhood and this was an effort to make sure 21 22 each homeowner would have sufficient space to park their vehicles.

23

24 **CHAIR BARNES** – Okay, well I don't want to wander into the area of 25 deliberation, but I might want to discuss that further at some point. So will that 26 condition become standard in the future?

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28 PLANNING OFFICIAL RICK SANDZIMIER - As Mr. Bradshaw articulated, it 29 was an interest or a concern of a previous Planning Commission that is not, as I understand it, codified in our Municipal Code for a parking requirement. When 30 you consider the design of a cul-de-sac or knuckles the consideration or the 31 32 concern is that it has less street frontage because of the curve of the street and since cars that normally on a typical just, you know, subdivision lot has curb 33 34 frontage in front of their homes. The ones at the ends of cul-de-sacs and 35 knuckles don't. So, if you allow for more parking on the site, then you're 36 addressing the issue.

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38 **CHAIR BARNES** – Well, the reason I was curious about it is we've approved 39 some projects in the past that have been fairly small lots, extremely small lots, and even rectangular lots facing a straight street have had very little lot frontage 40 and parking has been a concern but..... 41

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43 **PLANNING OFFICIAL RICK SANDZIMIER** – The only other thing that I would 44 point out with this particular subdivision is it is a large lot subdivision, so these 45 are half-acre lots. We don't have the actual Site Plans where the homes are going to placed but, usually on a half-acre lot or so, you're actually going to have 46

larger driveways or side yards and other opportunities. It may not be necessary
 to actually put a condition in place like this. It would probably be belts and
 suspenders because the actual design of the half-acre lot, you're probably going
 to end up with more parking.

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<u>CHAIR BARNES</u> – Yeah, you're going to have much larger front setbacks and
 longer driveways, so I was just curious the source of that condition. I think the
 last question I....oh, second to last question. Condition B5, from Building and
 Safety, proposed residential project shall comply with the latest Federal Law,
 etc., etc., etc. There is no grandfathering that goes along with these conditions?
 If any of the statutes listed in there were to change, they would be required in the
 case of all of those to comply with the current?

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PLANNING OFFICIAL RICK SANDZIMIER – It is my understanding that the building and fire codes and specific to public health, safety, and welfare-type issues so those codes, when they do change, the developments are subject to the ones that are in existence at the time of the development.

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ASSOCIATE PLANNER JEFF BRADSHAW – The issuance of a building permit
 would be the only thing that would really excuse a project from being held to a
 higher standard or a new requirement.

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<u>CHAIR BARNES</u> – Right, I guess my question was, and it doesn't relate just to
 public safety.....go ahead....

26 PLANNING OFFICIAL RICK SANDZIMIER – I was just asking for.....

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28 <u>CHAIR BARNES</u> – What, what came to mind was Americans with Disabilities Act 29 so, if next year the regulations changed and two-story houses now require an 30 elevator, would this project then be required to put in an elevator or would he be 31 grandfathered to the current ADA Standard? 32

33 **COMMISSIONER LOWELL** – What I think happens is, when you start pulling 34 your permits, that's what codifies what criteria you're held to. So, if you're going 35 to pull a building permit today, you're held to today's standards. But, if you're 36 pulling a grading permit or a building permit in 10 years, you'll be held to the 37 standard that is in place in 10 years. So this is like a benchmark saying, "Hey, by 38 the way, whenever you pull the permit, that's the standard you have to go to." It's 39 just a statement.

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ASSOCIATE PLANNER JEFF BRADSHAW – The balance in the process is, you asked about extensions of time, so in three years' time if the project has not been developed and they come to the City and ask for that extension, that'd be an opportunity for Staff to revisit the conditions; not to place new conditions but, if standards or requirements have changed, we would update the conditions to update the most current standard in place at the time.

CHAIR BARNES – Okay, just kind of caught me by surprise a little bit. Alright, and then the last question I had, concerns the grading on lot 16. I was curious why that hillslope is contained entirely on 16 and not adjusted so that the top is on the property line, which is the more traditional configuration because, in this scenario, the fence will be at the bottom of the slope, and the owner of 16 standing in his backyard is going to look right down in 15 with really no slope hindering his view. He might not care but the owner of 15 might.

9

10 **TRAFFIC ENGINEER MICHAEL LLOYD** – Good evening, Chair. Michael Lloyd 11 with Land Development. This was proposed by the Applicant. I see your 12 concern, so if you felt that was applicable and appropriate to put the wall at the 13 top of the slope, the Staff would support that, and we would recommend a 14 condition to reflect that.

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- 16 CHAIR BARNES We'll save that for the deliberation portion of our comments.
 17 I have no other questions. Anyone else?
- 19 **COMMISSIONER SIMS** I do.
- 21 **CHAIR BARNES** Commissioner Sims.
- <u>COMMISSIONER SIMS</u> What does the...there will be....I guess my question is
 there will be an HOA on this development, these 16 lots?
- ASSOCIATE PLANNER JEFF BRADSHAW There are no common areas, other than the basins that would require an HOA but, but City requirement, the HOA has to be established because of the water quality basis?
- 29
- 30 <u>COMMISSIONER SIMS</u> And so what would be the limit and scope of what the
 31 HOA would control within the 16 lots? Just the water quality basins
 32 maintenance?
- 33
- 34 ASSOCIATE PLANNER JEFF BRADSHAW That's correct.
 35

PLANNING OFFICIAL RICK SANDZIMIER - For a little bit of clarification, in the 36 37 Staff Report, we actually....the HOA has not yet been established. It would 38 predominantly be for the water quality treatment basins, but one of the things we 39 might want to work with the Applicant on is the common-area walls, particularly 40 the perimeter walls and any other things that might be of interest to the Applicant 41 to explore. We did write into the Staff Report that it would be at the discretion of 42 the Applicant at this time, but it is not that we don't want to talk about it. If there is some interest of the Commission, we would be interested to hear back from it. 43 44 I believe the common-area maintenance that is done, particularly for the exterior 45 walls, the perimeter walls. If they are done consistently, it has a better image for the city. If we allow each of the individual homeowners on the walls and fences 46

to take care, there is a likelihood you could get some inconsistencies, which we
do see around town today, so in the long haul, I'm looking for ways to improve
that.

4

5 **COMMISSIONER SIMS** – And this is probably more a question of the developer, 6 rather than the Staff, but the R5 is directly to the south of this. I guess that would 7 be to the south of this. Why wouldn't an R5 be appropriate for development of 8 this property? I guess, in my opinion, if this is....and I don't know if this is in the 9 overlay for the.....what did we call that with the animal keeping.....

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11 **COMMISSIONER LOWELL** – The PAKO.

- 13 **COMMISSIONER SIMS** The PAKO, yeah, that's it.
- 14 15

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ASSOCIATE PLANNER JEFF BRADSHAW – It's outside of that area.

17 **COMMISSIONER SIMS** – It's outside of the PAKO, so in 2020, I don't know if 18 there is really animal keeping, so this is kind of a square peg in a round hole type 19 I just speak from experience living on a half-acre parcel of my of thina. 20 development that has been out there. Probably 90% of the homes do not have yards. A half acre is a lot of property to try to maintain and, to me, when you 21 22 distinguish in my neighborhood where our houses are, in comparison to the 23 Richmond American Homes that went in several years after our development 24 went, they downsized. They went in through a Change of Zone and went to 25 third-acre lots, and they have an HOA that requires all the front yards to be 26 maintained, and it is a significantly better development; much, much better. The 27 house prices are higher. The feel, the look of the houses, and the streetscape is 28 much, much better. So, anyhow, long story short, I'm not opposed to a half acre, 29 but it just seems this is.....I don't know, just because it's R2 doesn't mean it's the right thing for the city to have more R2 where it's hard to maintain and meet a 30 31 pricing point for a developer.

32

PLANNING OFFICIAL RICK SANDZIMIER - I'd be happy to share some insight 33 34 on that. It may fall under the discussion on the project, but just risking that we 35 might go that far, I was going to tell you real quickly this is something that we did consider as a staff. There is a nuance here that the General Plan Land Use 36 designation for this site is R5. It's the zoning designation for the site, which is 37 38 RA2, which is causing it to be developed at the two acres, the two dwellings per 39 acre. If the Applicant wanted to propose an R5-type development, it would require a Zone Change. That wasn't a request, so we've just reacted to the 40 41 Applicant's interest, and we've processed it because it is consistent with the 42 zoning, but there could be an option, it would just require another phase. You'd have to go through the Zone Change. So if you want to talk about that in a little 43 44 more detail later, but I think we should probably open up the Public Hearing if 45 there is anybody that wants to speak on it or if the Applicant wants to come back and maybe provide any input, so. 46

CHAIR BARNES – Fair enough. Let's suspend our question-and-answer period
 and open the Public Hearing. Do we have any members of the public wishing to
 speak?

- ADMINISTRATIVE ASSISTANT ASHLEY APARICIO Yes, we do. We have
 Rafael.....
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- 9 10

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- 10 11
- ADMINISTRATIVE ASSISTANT ASHLEY APARICIO Brugueras.

CHAIR BARNES – Brugueras.

12 13 **SPEAKER RAFAEL BRUGUERAS** – Thank you, again, Commissioners, Staff, 14 and our guests. I went by this two days ago because it is on Cottonwood, and Cottonwood is a major street. It goes from east to west, and it is used constantly, 15 and the project is between Morrison and LaSalle, more towards LaSalle and, 16 17 finally, it is going to be occupied with homes. And I looked at the 20,000 half 18 acre, and I understand what Mr. Sims was talking about because I was talking to 19 the developer....or to the Applicant about that and one of the things that caught 20 my interest was the HOA because I know that Shadow Park Mountain, Hidden 21 Springs, Sunnymead Ranch, Moreno Valley Ranch, they have HOA's, and they 22 are required to keep the front always, at least 80% of the front, with lawn; some 23 kind of décor, landscaping to make the property value stay up. And, it's true, 24 when you have something too big, it gets harder and harder to maintain, 25 especially if you work outside of the city and you've got to drive all way and 26 you've only got the weekends, or you've gotten a little older and something physial happened to you that you can no longer do it. Those are the things that 27 28 can happen in the future, and this is something that we talked about when we 29 had the village in Ironwood and how they wanted to keep it an acre or more, and 30 the developer wanted to have it at 7100 to about 17,000 square feet. That was easy to maintain, less than 20,000. Okay? So I like the idea that it's going to 31 32 have the drainage for the water. That caught my interest too but, what really caught my interest was the HOA, holding the property owners responsible for 33 34 their front yards at least because it would have helped the neighborhood to grow. 35 You know, a half acre is beautiful because you can put your RV and all your toys in the back. It's a wonderful thing to have that space, but it is good to have 36 37 that....also it is good to be responsible to that space and do let it, like we just 38 heard, all the front yards, it rains and mud runs off into the curb, into the street, 39 into the sewage. That's what happens when you don't have front yards and no 40 HOA. People do as they like or, what happened a few years ago, Jerry Brown cut 41 the water back and everything went to kaput in Moreno Valley. We don't want 42 that. Let's consider HOA and let's build there because we do need that space to 43 be occupied with homes. Thank you.

- 44
- 45 **CHAIR BARNES** Thank you, Mr. Brugueras. Any other speakers?
- 46

1 ADMINISTRATIVE ASSISTANT ASHLEY APARICIO – No, Sir.

2

3 **CHAIR BARNES** – The Applicant. Could he speak within the Public Hearing or 4 outside? Yeah, okay, go ahead.

5

6 **APPLICANT DAN WEBB** – Well, two things I want to say is, first of all, I really want what is best for Moreno Valley. You know, I have a 20,000 square foot lot, 7 8 and it is a challenge to maintain. If there was some compromise where we could 9 come up with homes or, I don't want 7200 square foot homes, my wife, you 10 know, there's some mix. Like, you know, a third of an acre or quarter acre of whatever you guys want. I'm super flexible. I just want to make the best houses 11 12 I can in Moreno Valley, so if you guys are interested in giving...letting me have a 13 smaller lot, that would also help on the ... having the HOA is probably the scariest 14 thing in the conditions because having 16 people, which is a pretty small group to maintain stuff, makes me a little bit nervous and spreading around those costs 15 over 16. If I could spread it out over, you know, I would pick the number 25 or 16 32; that would be a lot earlier. So I'm open to any ideas. I'm in no hurry. I want 17 18 the right project for you guys.

19

20 **CHAIR BARNES** – Thank you. With that, we will close the Public Hearing and 21 return to discussion/deliberation. Any questions? I've got a couple but 22 Commissioner Lowell.

23

24 **COMMISSIONER LOWELL** – I have a question. Landscaping along 25 Cottonwood. Who would be maintaining that? Is that City maintained, HOA 26 maintained? 27

- 28 **ASSOCIATE PLANNER JEFF BRADSHAW** – That is City maintained through 29 the Maintenance District.
- 30

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- 31 **COMMISSIONER LOWELL** – Okay and the homeowners would pay into it, is it 32 through a tax, in addition to the HOA?
- 34 ASSOCIATE PLANNER JEFF BRADSHAW – They would be required to ballot 35 into an assessment district.
- 37 **COMMISSIONER LOWELL** – Thanks
- 38

36

- 39 **<u>CHAIR BARNES</u>** – Do you have a Zoning Map that shows surrounding.....
- 40
- **ASSOCIATE PLANNER JEFF BRADSHAW** Yeah and for some reason, when 41 you go to the slide, it decides to make it this postage stamp size. I'm not sure 42

why it's doing that. I have a print copy I can bring up to you, Chair Barnes. 43

- 44
- 45 **CHAIR BARNES** – Yeah. Well, cutting to the chase, I think what Commissioner Sims might be referencing is appropriate, but I'd like some discussion of it. 46

1 2 **<u>COMMISSIONER SIMS</u>** – My sample size referencing is very unique to me 3 because I do live in a half-acre subdivision that was developed in the early 90s 4 and then we were out there for years and years and years and then Richmond 5 American came in, and they built probably 300 or 400 homes, 200 to 300, whatever it is. And I remember the Planning Commission meeting, and the 6 7 developer came in, oh, we're going to put in....they wanted to downsize from the 8 R2 to, I think it was R3, to third-acre lots. It was... I think there were petitions 9 going around my neighborhood. All of my neighbors came in, and they were 10 upset, and they were just, "We want half acre." Well, anyhow, the City went ahead and did the Change of Zone, and I could just....it's.....there's a lot of 11 12 things. It's not in the PAKO. This is not an area, you know, where's a person 13 going to ride a horse here. I don't know if there's a horse trail that goes...if the 14 trail system goes right through this property but, anyhow, this is kind of in a very urbanized part of the city next to a fairly substantive street with Cottonwood 15 where there is a lot of traffic, so probably it's not an animal husbandry-type 16 17 neighborhood that you're going to see there. It's just going to be a big lot 18 neighborhood and, if the pricing point is tight, the developer is not going to be 19 able to build an estate-size house to justify the size of the lot. So, anyhow, I 20 could go on and on. The cost of the water to maintain it. The cost to build 21 the....to put in the plant materials and to maintain it and stuff. I don't know, it just 22 seems like.....and then the point with get a dominator bigger to justify the 23 expense of an HOA, I think there's a lot to that. I certainly am not opposed to the 24 project. As is, I would go ahead but I think, if the developer is willing to do a 25 Change of Zone, to do something with a third of an acre, something that is kind 26 of transitional to the R5 from the half acre to match the sizes of the...the east and 27 west sides, I think it would be a good project. 28

29 **<u>COMMISSIONER LOWELL</u>** – The City had an exorbitant amount of applicants 30 coming in front of us trying to cram the most amount of houses on the least 31 amount of space. We approved lots down to 4000 square feet in the 32 neighborhood next to me. I think it is a breath of fresh air that the developer is 33 trying to get some decent-sized lots in the middle of the city, and it fits with the 34 houses to the east and to the west. It doesn't fit with the north and south, but he 35 is not asking for a Zone Change, so I don't even think we should be talking about it because he is asking for a Tentative Tract Map with 16 lots in it. We should 36 37 discuss what's in front of us, not what we wish they would do or think you should 38 do. I think we should just discuss what's in front of us.

- 39
- 40 <u>CHAIR BARNES</u> I don't know. In previous meetings, we don't hesitate to say
 41 what we think they should do.
- 42

43 <u>COMMISSIONER LOWELL</u> – But we're not going to be changing what's
 44 presented in front of us. That's not even in our purview to change it from 16 lots
 45 to something else.

17

- 1 **<u>COMMISSIONER SIMS</u>** Yeah, but we could vote no if we don't like it.
- 3 <u>COMMISSIONER LOWELL</u> Why would you vote no on a good project when
 4 the Applicant wants it?
- 6 **<u>COMMISSIONER SIMS</u>** But if it's not the right project, it's part of our job as 7 Planning Commissioners....
- 9 **<u>CHAIR BARNES</u>** He's just offered up the opinion that he is open to higher 10 density.
- 11

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- 12 **<u>COMMISSIONER LOWELL</u>** Tell me a developer that would not want the 13 flexibility to put 500 homes on one acre. Tell me one developer that wouldn't 14 want to do that. Any developer would like to get the most bang for the least 15 amount of buck.
- 16
- 17 <u>COMMISSIONER SIMS</u> I refer you to the book *Basic Economics* by Thomas
 18 Sowell. You read that. Market drives what market does.
- 19 20 21
- **<u>COMMISSIONER LOWELL</u>** Exactly.
- <u>COMMISSIONER SIMS</u> So I heard the developer say it's tight. We're probably
 going to see dirt sit out there because this is tight and it might be.....
- <u>COMMISSIONER LOWELL</u> Try and buy a house in the city right now. They
 are \$400,000/\$500,000 right now. I say let's see what happens. He wants to put
 16 houses on it. Let's do it.
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- 29 <u>VICE CHAIR KORZEC</u> I totally agree. I think...I'm looking at the big picture.
 30 We're bringing new industry in. We're trying to attract new people.
- 32 <u>COMMISSIONER LOWELL</u> This is where the CEOs of the Amazon too could
 33 live.
- 34

35 <u>VICE CHAIR KORZEC</u> – Exactly. You've got it but, for myself, if I had a choice 36 right now of buying a home with a bigger lot or where I live, I would buy the home 37 with the bigger lot. Some of us come here from parts of the country where you 38 have acreage and you come to California and you live like this and the houses 39 are so close. It is hard to buy homes in this area at a reasonable price that have 40 acreages and lots that are bigger.

41

42 <u>COMMISSIONER LOWELL</u> – My house is 10 feet away from my neighbors on
 43 each side and 30 feet away from my neighbor in the back. The last two nights of
 44 the World Series, I can hear which neighbors are Astros fans and which
 45 neighbors are Dodgers fans. They are screaming and yelling and hollering. I

1 don't like that anymore. I want to have a little bit of space. This guy wants 2 space, I say let's vote on it.

3

4 **<u>COMMISSIONER SIMS</u>** – I understand. We have voted for things that, you know, piling 10 houses on what should be...like the stuff that's going in across 5 from the Kia or whatever. I mean, those are private streets, townhouse attached 6 7 lot, so that's a market driven thing. The developer thinks he can get that knocked 8 out. All I'm saying is the half-acre lots in my particular neighborhood have never 9 achieved the pricing that they should achieve, and they never will because when 10 you drive through the neighborhood 50% plus, probably closer to 80% of the lots, look like Mead Valley because nobody can afford to maintain it, and there isn't an 11 12 HOA there to enforce it and so if you want to....

- 13
- 14 **COMMISSIONER LOWELL** Why did this Planning Commission
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16 <u>COMMISSIONER SIMS</u> – If you want to have dirt in your front yard, move to
 17 Mead Valley.
 18

19 **COMMISSIONER LOWELL** – Why did this Planning Commission vote down the 20 project off of Nason and Ironwood? Because it wasn't the right fit. It was too 21 small of lots. We have a person wanting to put larger lots in the neighborhood 22 that's zoned for larger lots. He doesn't want to change the zoning. He wants to 23 put a project in that fits with the zoning, with the neighbors, and we're arguing 24 that he should change it. It doesn't make sense.

<u>CHAIR BARNES</u> – But the same arguments we were using in previous projects
 because of the high density north and south, you could make the same argument
 in this case that it is not appropriate.

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- 30 <u>COMMISSIONER LOWELL</u> I'm saying he doesn't want to change anything.
 31 He just wants a Tentative Map. I'm saying why are we talking about it?
 32
- 33 **CHAIR BARNES** I didn't hear him say that.
- 35 **<u>COMMISSIONER SIMS</u>** I heard...I have a package in front of us but....
- 36

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37 **CHAIR BARNES** – Yeah....

39 <u>COMMISSIONER LOWELL</u> – So we're not here to tell him what he should or
 40 shouldn't develop.

19

- 41
- 42 <u>**COMMISSIONER SIMS**</u> We're not doing that.
- 44 **COMMISSIONER LOWELL** We're getting way off topic here.

1 **CHAIR BARNES** – Well I don't know that we are. I think it's part of the area of 2 our purview to discuss opportunities for each project.

3

4 **<u>COMMISSIONER LOWELL</u>** – He is not arguing anything. He's not asking us for anything special. I don't think that we should grab ahold of trying to design 5 something that's not in front of us. We're not here to design. 6

- 8 CHAIR BARNES – I know. I think we're here to....
- 9

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10 **COMMISSIONER LOWELL** – Had he come in front of a Design Review Committee and say I want to put 32 houses on here that's a whole different 11 12 ballgame, but he's not asking for that. He's open to the idea and if he wants to, after tonight's meeting drop this case and reapply for a Change of Zone, that's a 13 14 whole different conversation, but what's in front of us tonight is a Tentative Tract Map. I think we should vote on it as it stands. Nobody out there has discussed 15 any change or any argument of anything. 16

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- 18 **COMMISSIONER SIMS** – I don't disagree. I just wanted to get my two cents in.
- 20 **COMMISSIONER LOWELL** – He is trying to make us earn our stipends.
- 22 **COMMISSIONER SIMS** – But he spent a lot of money getting it to where it's at, 23 SO.....
- 25 **COMMISSIONER LOWELL** – Exactly.
- 27 **COMMISSIONER SIMS** – It is what it is.
- 29 **<u>COMMISSIONER LOWELL</u>** – We can armchair engineer for days.
- 31 **CHAIR BARNES** – Well, does someone want to make a motion?

33 **COMMISSIONER LOWELL** – I will gladly make a motion. How do you want to 34 do it with the new system? I need to state the motion first?

35

36 PLANNING OFFICIAL RICK SANDZIMIER - You should state motion. I think 37 the one thing you might want to include in the motion, if you haven't remembered 38 that, is the change to that one condition. 39

40 **COMMISSIONER SIMS** – Now, we have a motion A1,2 and B1. Do I read them 41 individually or just make a motion for the Resolution?

- 42
- 43 **CHAIR BARNES** – The Resolution is enough, right? 44
- 45 **COMMISSIONER SIMS** – The Resolution is okay?
- 46

ASSISTANT CITY ATTORNEY PAUL EARLY – You can read the whole thing if you like. I've often recommended for brevity, you can just recommend the first part before the colon on A and on B. You want to do both of those, at least that much. **<u>COMMISSIONER SIMS</u>** – I would like to make a motion to approve Resolution No. 2017-34 and approve Resolution 2017-35 with the Conditions of Approval as recommended tonight. VICE CHAIR KORZEC – I second. CHAIR BARNES – I have a question on the amended conditions. What does that include? What have we amended? ASSOCIATE PLANNER JEFF BRADSHAW - In Condition P9, we would be deleting the reference to the document to convey title. We would delete that from that condition. CHAIR BARNES – Alright. I would.... **PLANNING OFFICIAL RICK SANDZIMIER** – It's line A. For the record, it's line A of that Condition. **CHAIR BARNES** – If I want to propose another amendment to the conditions, is that an alternate motion or how do we do that? ASSISTANT CITY ATTORNEY PAUL EARLY – It would be an alternate motion unless you could convince the mover to add it to his original motion. **CHAIR BARNES** – Ah. I haven't been able to convince him of anything else tonight, but I'll put it out there. I would also like to add a condition requiring the slope between lot 16 and 15 to be moved to the south so that the top of slope is on the property line, not the top of the slope. COMMISSIONER LOWELL - I do agree with that. Would that be a Lot Line Adjustment to move it over, or would the slope be moving? CHAIR BARNES – No, we'd just.... ASSOCIATE PLANNER JEFF BRADSHAW – That would be **CHAIR BARNES** – Just revise the Grading Concept to put the slope on the other side of the line, right?

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1 **TRAFFIC ENGINEER MICHAEL LLOYD** – That's correct. It would be a plan 2 check comment once we move forward with the project, and we would relocate 3 the slope, so that the property line could stay as shown. 4 COMMISSIONER LOWELL - Okay, so would I make a condition on that or how 5 6 would I do that? 7 8 **ASSISTANT CITY ATTORNEY PAUL EARLY** – No, you just state that you're 9 moving with the conditions that we have just set forth. 10 11 **COMMISSIONER LOWELL** – Okay, I would like to amend my motion to include 12 the condition set forth by Chairman Barnes. 13 14 ASSISTANT CITY ATTORNEY PAUL EARLY - Do you still have a second for 15 that? 16 17 VICE CHAIR KORZEC - Yes. 18 19 **<u>CHAIR BARNES</u>** – Having a motion and a second, please vote. The motion carries 5-0. 20 21 22 23 Opposed - 0 24 25 26 Motion carries 5 – 0 27 28 29 **PLANNING OFFICIAL RICK SANDZIMIER** – This is an action taken by the Planning Commission, which is an appealable action. If there is any party that 30 feels that they want to appeal this, this is a Subdivision Map, so it has a 10-day 31 appeal period. The appeal should be directed to the Director of Community 32 Development, and it would be scheduled to go before the City Council for a 33 34 hearing within 30 days, if such an appeal is filed. 35 36 **CHAIR BARNES** – Thank you, Rick. Commissioner Sims. 37 38 **COMMISSIONER SIMS** – I don't disagree Brian at all with your statement that 39 we should vote for what we did. I think we all made a good decision on this, but I do want to just say I do think it's right for us to have this kind of conversation, 40 especially on something like this where a developer could decide after he hears, 41 oh, I may want to do something before he moves forward. Also, it provides, if 42 anybody is listening out there, they could provide input into future projects, and 43 also it could be a message to the City Council in making considerations in things 44 like that. So, the discussion, I don't think may be off point, per say, because 45 we're not going to change the conditions; say, oh no, we want you to put in three 46 22 October 26, 2017

DRAFT PC MINUTES

wanted to force them to d	I down a way of not approving this project because we o a Zone Change, and I was just trying to pull us back agree, and I completely understand.
<u>COMMISSIONER SIMS</u> –	There's always battles to win wars.
	ng philosophical. That a boy. Alright, moving onto plicant is the City of Moreno Valley. Good luck getting
2. Case:	PEN17-0115
Applicant:	City of Moreno Valley
Owner:	City of Moreno Valley
Representative:	Community Development Department
Location:	City-wide
Case Planner:	Claudia Manrique
Council District:	All
Proposal:	A City-wide Municipal Code (Title 9) Amendment addressing Land Use Regulations for Accessory Dwelling Unit (ADU) (formerly Second Dwelling Units) to ensure compliance with new State of California laws.
STAFF RECOMMENDAT Staff recommends that the 2017-33 and thereby:	I <mark>ON</mark> he Planning Commission APPROVE Resolution No.

- 1 2
- 1. **FIND** that PEN17-0115 (Municipal Code Amendment for Accessory Dwelling Units) qualifies for a Statutory Exemption in accordance with CEQA Guidelines, Section 15282(h) and;
- 3 4
- 5 6

2. **RECOMMEND** that the City Council approve the proposed amendments to Title 9 of the City Municipal Code, PEN17-0115.

PLANNING OFFICIAL RICK SANDZIMIER – That's what I was going....I was
 hoping you weren't going to say that, but this is a City-initiated change to the
 Development Code and Claudia Manrique, our associate planner, will be making
 the presentation.

13

14 ASSOCIATE PLANNER CLAUDIA MANRIQUE - Good evening. This is a Citywide Municipal Code Amendment to Title 9, addressing what was formerly known 15 as the second dwelling unit. SB1069 and AB2299 were approved last year in 16 September and became effective in January of this year. Both bills renamed 17 second dwelling units to accessory dwelling units, also known as ADU's. Staff 18 proposed to amend the existing ADU Ordinance in order to comply with State 19 Law. Currently any ADU's that come in would be processed under the State 20 Regulation and this is until Moreno Valley updates its Ordinance. There are a 21 22 few of the proposed changes that are going to the Section 9.09130, the three-23 dwelling section unit now. We're adding some definitions. This includes some cleanup of the permitting processing. We have some Development Standards 24 25 for efficiency units of some added restrictions for fire safety, along with some new 26 parking requirements. Major changes, besides the name title to accessory 27 dwelling unit, is adding two definitions to both the section of ADU's as well as the definition section of the Code. Accessory dwelling units can be either attached or 28 29 detached and must include sleeping areas as well as a kitchen and sanitation. Efficiency unit is new. It is only in attached units. It has a minimum square 30 footage of 150, so it's rather small. It can have small bathroom facilities and 31 does not need to have a full kitchen. The State has opted to give residents who 32 are developing at ADU some exemptions from parking. There are five of them. 33 34 This is...will help with units that are near transit stops as well as ones that are 35 potentially near car sharers. Some of the additional requirements that are being addressed in tonight's proposal is the maximum size is 1200 square feet. 36 37 Attached ADU's cannot be greater than 50% of the existing space. ADU's are 38 permitted on single-family lots as well as multifamily lots with existing single-39 family homes. Existing accessory structures may be converted to an ADU. This 40 proposal is exempt under CEQA, and Staff recommends approval of Resolution 41 2017-33. It finds that the proposed amendment is exempt under CEQA Section 42 15282H and recommends that the City Council approve the proposed 43 amendments to Title 9. Thank you.

44

45 <u>PLANNING OFFICIAL RICK SANDZIMIER</u> – If I may, Mr. Chairman. I want to
 46 just add a little bit of additional background. The reason this is before us this

1 evening is not because the City itself wanted to come up with some new 2 standards for second units or accessory dwelling units, this is really forced on us 3 by the State. The State, as you have probably read over the last year and even 4 years before that, has been looking at ways to facilitate and to remove obstacles for making it easier for people to get access to housing. The accessory dwelling 5 unit is considered to be an opportunity for people who are looking for what might 6 7 be affordable housing opportunity to do that as well. The accessory dwelling unit 8 is the same thing as a second dwelling unit. We had in our Ordinance before 9 where it can be rented out to somebody else. You still have to have the primary 10 owner of the site either residing in the accessory dwelling unit or in the primary home, so you have to have the property owner on the site, but the reason for the 11 12 second unit is to possibly generate some revenue so that that homeowner, the 13 property owner, can actually generate some revenue. I will say that the 14 accessory dwelling unit standards were somewhat derived from really a Northern California focus, and so a lot of the focus seems to be on smaller compact 15 developments that are closer to transit opportunities that don't necessarily need 16 parking requirements. The parking allowances that are in this are a pretty 17 significant change. Pretty much any unit that comes into the city is probably 18 19 going to be in one of those categories and may be able to request relief from the 20 parking requirement, and we just want you to know that it is not because we want to give away the parking requirement. We are going to be forced to actually do 21 22 that because we have to comply with the State Regulations. The other thing I 23 want to point out is you may recall that this second dwelling unit or accessory 24 dwelling unit topic did come up a while back and, as Claudia has pointed out in 25 the presentation, the State Law was actually being crafted back in 2016. It was 26 actually approved in. I think. September 2016, and it went into effect in January 27 of this year. During that time, the City Council was interested in possibly getting 28 a study session on accessory dwelling units for various reasons; a lot of other 29 things going on. That study session with the City Council never took place and so, instead of holding off and not updating our Ordinance because our Ordinance 30 does need to comply with the State Regulations, we have moved forward with 31 32 making the change to our Code to just make sure that we are compliant with the State Regulations. The item before you, I'm not sure that Claudia pointed out in 33 34 the Staff Report, is that your action tonight is in an advisory capacity because this 35 is a change to the Development Code, which ultimately requires City Council action. So, after your action this evening, we will be taking that recommendation 36 37 forward to the City Council for the final action. 38 39

40

CHAIR BARNES – Thank you, Rick. Anybody have any questions?

41 **VICE CHAIR KORZEC** – I do. Does this relate in any way to these rentals that people do online for like you can use somebody's apartment for a week or two 42 weeks and how does that affect a neighborhood, rather than a person being 43 44 there over long-term?

25

1 **PLANNING OFFICIAL RICK SANDZIMIER** – It does not fall under the category 2 of like an Air B&B...

3

4 VICE CHAIR KORZEC - Yeah.

5

6 **PLANNING OFFICIAL RICK SANDZIMIER** – Where people are doing short-term 7 rentals or renting the rooms on a short-term basis. That's not the intent. I did talk 8 with our Finance Staff this afternoon about that particular topic. We don't have 9 any regulations with regard to that topic, but this is not something that we think is 10 in that realm at this point.

11

13

12 CHAIR BARNES – Commissioner Sims.

14 **<u>COMMISSIONER SIMS</u>** – For context purpose, how many of the secondary units are processed through the City prior to this change? Is it a little, a lot, on an 15 annual basis, perhaps? 16

17

18 ASSOCIATE PLANNER CLAUDIA MANRIQUE – I don't have an exact number 19 but approximately two to three a year, not too many.

21 **CHAIR BARNES** – What differentiates and efficiency unit from somebody who is 22 renting out a bedroom to a college student?

23

20

24 PLANNING OFFICIAL RICK SANDZIMIER - The distinction would be the 25 efficiency unit does have to have at least a partial kitchen and a bathroom facility 26 that is for that particular unit itself; where somebody could be renting a room, 27 may be actually using the kitchen facility or the bathroom that is part of the main 28 house. That would be one clear distinction. The efficiency unit, if it is treated as 29 an accessory dwelling unit, I believe, correct me if I'm wrong Claudia, cannot have a direct access to the primary residence. It has to have its own entrance. 30 Whereas, somebody who is renting a room, can go through the regular front door 31 32 and any other door into the house, and so there is no distinction there. That's 33 two things or at least three things.

34

35 **CHAIR BARNES** – Okay and then something caught my eye about the written agreement with the City that is required when I guess an applicant applies for an 36 37 accessory dwelling unit or an efficiency unit, what's the ...what's the purpose of 38 that agreement? What is it stipulating?

- 39
- 40 PLANNING OFFICIAL RICK SANDZIMIER - That agreement is actually being 41 carried forward in our current regulations, and it basically is a contract, so to 42 speak, almost where we know that the Applicant is acknowledging that these are the requirements for having this second unit consistent with our Municipal Code. 43 44 We think that is important to continue to have. It's not a requirement of the State 45 Regulations. It's something that is actually being carried forward from our current 46 regulations.

<u>CHAIR BARNES</u> – Okay, alright. I was just curious where that came from.
 Okay, Commissioner Sims.

- 4
 5 <u>COMMISSIONER SIMS</u> Yeah, I noticed when I was reading through the
 6 materials that it appears that there is a....if somebody wanted to convert a
 7 garage into axillary.....
- 8

9 **<u>CHAIR BARNES</u>** – Efficiency unit.

10

11 **COMMISSIONER SIMS** – Efficiency unit, let's say, because it would be attached 12 to the house. How does the City handle that? I mean is there....through the 13 administrative plan check process, there would be a requirement for a carport or 14 some kind of other thing to replace the covered parking that was already 15 designated for the single-family residence that had that?

16

ASSOCIATE PLANNER CLAUDIA MANRIQUE – The State doesn't allow...if it's
 going to be an attached unit, we can't place any parking requirements on the
 project or any additional parking so.....

20

21 **COMMISSIONER SIMS** – You said if it's going to be what kind of a unit?

22

ASSOCIATE PLANNER CLAUDIA MANRIQUE – Attached. Detached still has the requirement of one parking space per bedroom unless it meets one of the five exemptions, which they need to provide with their application. So if they came in and said, we're within a half mile of a bus stop, they need to show us what distance and what bus stop they would be using.

28

29 <u>**COMMISSIONER SIMS**</u> – So when somebody would come over and say I'm 30 going to convert my two-car garage into whatever this 450 square feet or 31 whatever it is attached, the largest could be, probably not a whole garage, a 32 garage bigger than that, I'm not sure off the top of my head but, anyhow, long 33 story short is that would have to go through the Title 22 calculations for the air 34 conditioning and all that kind of stuff. It couldn't just be close up the front garage 35 door, wall that in, and....

36

ASSOCIATE PLANNER CLAUDIA MANRIQUE – Right. It would need to come
 in as Administrative Plot Plan, so Planning would be reviewing what the new
 elevation would look like as well as going through the building process.

40

41 <u>COMMISSIONER SIMS</u> – And this, this, I mean I'm not against this, but it seems 42 like there is the potential....what was the prior thing when you have to have 43 three, three onsite parking. I think you better codify that pretty quick; otherwise, 44 this is going to be challenging potentially but, if there is only two of them a year or 45 something like that....

27

1 **CHAIR BARNES** – Anything else?

2

3 **<u>COMMISSIONER LOWELL</u>** – How is the distance to the nearest parking or 4 nearest public transit station measured? Is it straight line or is it as you...along 5 path of travel?

6

7 **PLANNING OFFICIAL RICK SANDZIMIER** – I actually went to training on this 8 one. It's really ambiguously defined. A lot of the cities are very concerned about 9 the way the State wrote the regulations because it just says you have to be 10 approximated to transit. If somebody wanted to come in and make an argument that is to a bus stop or to a transit stop or somebody could also come in and say, 11 12 no, that's just proximity to a bus line, and it happens to be a bus line that runs 13 through my neighborhood, and I want to make that argument. We're asking that 14 the Applicant be required, and that's one of the things Claudia was touching on was, we're going to make it a requirement of the Applicant to demonstrate to us 15 how they are meeting any of those five criteria, and so we hope that is going to 16 17 give us a little bit more opportunity to evaluate that circumstance and discuss it with the applicant's and maybe, over time, the state will actually make some 18 clarifications on that but, right now, it's a very grey area. I'm sorry. I cannot give 19 20 you a definitive answer on it.

21

23

22 **COMMISSIONER SIMS** – Okay.

24 **CHAIR BARNES** – Building on what Commissioner Sims was saying, 25 hypothetically, what's the difference between a guy who comes in and says I 26 want to add an efficiency unit by converting my garage to two bedrooms or whatever and a guy who comes in and says I want to convert my garage to two 27 28 bedrooms? Is either process acceptable or does he have to use the "E" word 29 and then he has to sign the contract with the City and all these regulations come 30 into play or he can just do a building modification and end up with the same 31 physical product but not the criteria that comes with calling it an efficiency unit?

32

33 **PLANNING OFFICIAL RICK SANDZIMIER** – If he wants to consider it, instead 34 of calling it an efficiency unit, let's call it an accessory dwelling unit because an 35 efficiency unit is a form of an accessory dwelling unit, so the accessory dwelling unit will have to have the standards. It has to have its own entry and own 36 37 entrance to the living unit. He will have to come in and go through all the 38 Building and Fire Codes and has to be established as a unit that has a bathroom 39 facility and at least a partial kitchen. That'll be confirmed instead of just converting it to two bedrooms. If somebody just wanted to come in and convert 40 41 the garage to two bedrooms, they are going to be held to the requirement that 42 they do have to replace the parking that's required for the unit. That's going to be automatic. I'm sorry. It's going to be an automatic requirement to replace the 43 parking if it is an addition of bedroom space but, if it is an addition of an 44 accessory dwelling unit and they can satisfy one of the other five exemption 45 criteria, then the parking may not have to be replaced but, if it is just adding 46

1 bedrooms, they are going to have to replace the parking. I don't know if that's 2 coming across clear or not.

3

4 **<u>CHAIR BARNES</u>** – Well, maybe I'm not understanding all of it. It seems like 5 there is this huge grey area between a guy making improvements and not calling 6 it an efficiency unit or, whatever the term was, and a guy who does and I'm 7 just....

8

9 **<u>COMMISSIONER SIMS</u>** – I think the distinguishing characteristic between the 10 efficiency unit and a conversion of your garage to two bedrooms is the fact that, if 11 he wants to get the efficiency unit approved, he has to have a separate entry into 12 the property and it has to have its own.....

13

15

14 **<u>COMMISSIONER LOWELL</u>** – Kitchenette.....

16 **COMMISSIONER SIMS** – Kitchen and little kitchenette and a bathroom, so, so 17 and then he can....then that owner can then, if he can meet the exemptions for 18 the parking, wiggle out of the replacement of the garage parking. If he wanted to 19 just come in, and I have a two bedroom house, and I'm going to have two more 20 kids, and I need four bedrooms and I'm just going to put....make my garage into two more bedrooms. He's not going to have and he goes through doesn't 21 22 just do it on the weekend job and comes in and permits it, then he is going to 23 have to go build a carport of whatever the City requires for replacement of the 24 covered parking.

25

<u>CHAIR BARNES</u> – It seems like an odd circumstance that has the potential for
 some unintended consequences but we're here to just advise, and I don't think
 that in the long-run it matters that much. So, any other questions? Does
 somebody want to make a motion?

- 30
- 31 <u>COMMISSIONER SIMS</u> I'll make a motion. Let me find it here real quick.
 32 Being that this is a requirement of the State of California.....

34 <u>PLANNING OFFICIAL RICK SANDZIMIER</u> – Hold on, hold on. This does
 35 require a Public Hearing.

36

33

- 37 **<u>COMMISSIONER SIMS</u>** Oh, I'm sorry.
- 38
 39 CHAIR BARNES My apologies. The Chair has dropped the ball again. So,
 40 having no further questions, I would like to open the Public Hearing. Do we have
 41 a speaker?

42

43 <u>ADMINISTRATIVE ASSISTANT ASHLEY APARICIO</u> – Yes, we do, Rafael
 44 Brugueras.

- 45
- 46 **<u>CHAIR BARNES</u>** Mr. Brugueras, please come forward.

2 **SPEAKER RAFAEL BRUGUERAS** – Thank you, Chair, Commissioners, Staff, 3 you know when you sit back there and you start listening to some of the 4 confusion that goes on, you're going to have a lot of lawbreakers because it's a 5 lot easier just to break the law and make it a two bedroom apartment and don't tell nobody. You'll have those. Okay? Because if somebody is going to have to 6 7 go through what you just mentioned, the private entrance or remodeling the 8 garage and two bedroom and going through a carport and everything, they'd 9 rather just say thank you and walk away and just still do it, and I've seen plenty of 10 those, especially when you knock on peoples doors campaigning. You see who opens the door and what door opens, so you have a lot of that, okay. So that 11 12 was a really tough one. Now, I like people to be able to build homes or another 13 dwelling place behind their existing home, but I never thought.....I'm not thinking 14 of tract homes. I'm thinking of the R2's, R3's, R4's, and R5's because there are plenty of them in Moreno Valley, and some of them may want to build a second 15 home, like one of the slides. Because the door was open today to that 10 acre, 16 17 20,000 square feet, he has the right. Those people have the right to build a 18 home in the back because, anything over 7200 square foot, you have the right to 19 pull a permit and see if you're able to put a house in the back. So in one of those 20 slides it had a nice little blue house with green trimming and a brown fence, and I looked at it and, I said, there it goes. A 20,000 square foot lot with a little house 21 22 on the back. That could happen on Cottonwood because we just agreed to it. 23 Mr. Sims, if he would have persuaded, and he did. He did persuade the 24 Applicant for a moment to go down a little smaller, okay? You know, one-third is 25 pretty big too, and he was being real honest about his neighborhood and some of 26 his neighbors. It would've been nice to see a one-third, maybe 25, 32 houses. 27 Ten thousand acres is a lot. I live on a 10,000 acre lot, and do you know how 28 much money it costs to cement that alone? That's not counting a pool, or the 29 deck, or the carport, or the port in the back, nothing. That's a lot of money, so I 30 hope that you approve this; not to see track homes but homes in the back of....but people that have a lot of acreage so they can get a chance or if we could 31 32 have a chance to change someone's mind for the better good of the City, we should talk about that. 33

34

1

35 <u>CHAIR BARNES</u> – Thank you, Rafael. Alright, any other speakers? It doesn't
 36 appear so. It's very empty out there. With that, we will close the Public Hearing.
 37 Now, would we like to deliberate, make a motion?

38 39 <u>COMMISSIONER SIMS</u> – Well, I would say this is an unfunded mandate from 40 the State of California to create more Code Enforcement work for our fine City 41 Staff but, so be it, but its legislation so you have to do what you have to do, so 42 I'm willing to make a motion to approve it. I think it's pretty....I think Staff did a 43 good job. It's pretty thoughtful and adjusting the 1250 to 1200, I think they dotted 44 the "I's" and crossed the "T's" on this thing to fit, at least the spirit of what the 45 State has mandated.

30

PLANNING OFFICIAL RICK SANDZIMIER – So the motion when it is made, if he is making a motion, would be a recommendation to the City Council to approve it because you guys won't be the approval body.
<u>COMMISSIONER SIMS</u> – So I don't know if there is any other deliberation but I'm willing to make
VICE CHAIR KORZEC – I'll make the motion.
CHAIR BARNES – Anyone want to second?
ASSISTANT CITY ATTORNEY PAUL EARLY – Is that a motion to approve both the Resolutions before you?
<u>COMMISSIONER SIMS</u> – Yes, I would recommend the Planning Commission approverecommend approval of the Resolutions that are under consideration here and for City Council approval for consideration.
COMMISSIONER BAKER – I'll second.
<u>CHAIR BARNES</u> – A motion from Commissioner Sims. A second from Commissioner Baker, so let's vote.
VICE CHAIR KORZEC – I don't have a voting thing.
CHAIR BARNES – Oh, hit yourbear with us.
<u>COMMISSIONER LOWELL</u> – So, for clarity, we're motioning to approve the Resolution PEN17 or 2017-33
<u>CHAIR BARNES</u> – Oh, in that case, I'll vote. All votes have been cast. The motion carries 5-0. Do we have a wrap-up?
Opposed – 0
Motion carries 5 – 0
PLANNING OFFICIAL RICK SANDZIMIER – The item before you is a legislative action, which requires a City Council as the ultimate approval of authority on this. Your recommendation will be carried forward to the City Council for that action.

5

6 7 **<u>CHAIR BARNES</u>** – Thank you, Rick. Next on the Agenda, Other Commission Business. Do we have any Other Commission Business?

OTHER COMMISSION BUSINESS

8 9 10

13 14

15 16

PLANNING OFFICIAL RICK SANDZIMIER – No, there is no other Commission
 Business. Sorry.

CHAIR BARNES – There is no other Commission Business. Staff Comments?

- STAFF COMMENTS
- 17 18
- 19

20 **PLANNING OFFICIAL RICK SANDZIMIER** – Yes, thank you, Chair Barnes. Looking at the lightness of the Agenda tonight, but we've had a lot of discussion, 21 22 I did put together a few slides just to kind of bring the Commission up to speed on the activity that's been going on in the city over the last year. It'll take me a 23 few minutes and, if you want me to go faster, I'll be happy to do so. There's no 24 25 action to be taken on this particular presentation this evening. It's really for 26 information purposes since we haven't met in a couple of months, and there's 27 been a lot of activity going on in the city. People at home watching might enjoy seeing this as well. It gives a flavor of what we're pretty proud of here at the city 28 29 in terms of the economic development and activity we've been generating. Okay, so as an activity overview, what I'm going to cover is residential development, 30 commercial development, and some industrial development, building major 31 32 permits that have been issued. We issue lots of minor permits every day, so I'm 33 not counting all those. These are really kind of the major ones that you see out 34 there. Residential units, 218 residential permits have been issued in the last 35 year. The commercial permits are 37. I apologize, the slide, I think it got reformatted when we put it up here. Hotels, we've permitted one, but we've got 36 37 three other ones in the works that we hope to have permitted very soon. And 38 then industrial development, these are the large-scale industrial, developments 39 that we've had. We've had two major projects permitted. On the residential side, this is an example of some of the phases of where the construction is. This is a 40 41 Lennar development up at Pigeon Pass just north of the high school. Some of 42 those units are still in the framing stage. Some of them are in the closer to completion with the finishes on the exterior, the roofing being put on, and I 43 44 believe that some of the units there are already close to putting in the 45 landscaping, so that development is moving pretty rapidly, and they are phasing it in pretty nicely. Pacific Communities has some completed homes in the area. 46

1 RSI also has some completed homes, so we've got some of the people already 2 moving into. I think that image on the right shows the completed homes with the 3 front yard landscaping and one of the units with the garage door open shows the 4 people have already moved in. A while back, the Commission had asked some 5 questions about the landscaping in the new homes. I hope that this is better than what we had seen the last time we brought this. It still may look a little bit sparse, 6 7 and I did get some questions asked about some of the recent projects that we've 8 signed off on the landscaping. We're still trying to follow a drought-tolerant 9 landscaping, but the planting materials that are being planted here are supposed 10 to be faster growing and hopefully, over a short period of time, they will fill in. So it may look sparse, but the idea is to make them more robust, and I've been 11 12 working with the staff to make sure that we are encouraging the residential 13 builders to, now that we're not in a drought condition, be thinking of maybe some 14 more attractive landscaping. Just, overall, those 218 units are represented by several homebuilders. We've got RSI out there, KB Homes, Lennar, Frontier, 15 Pacific Communities, and Metric Homes. So we're not just attracting one, we're 16 attracting multiple homebuilders. New residential projects that are not yet in 17 construction but have been before you as a body or one that are currently 18 19 pending. This is the number of homes that you guys have looked at, Mission Pacific was the Legacy Park project, Rocas Grandes, Bella Vista, Chara Villa, 20 were all apartment projects. And then the bridge development, which is the 21 22 current proposal on the Moreno Valley Ranch Golf Course. They are looking at 23 about 416 units on the driver range that is still going through the process and 24 should be becoming before you in the next few months we hope. Commercial 25 and retail development, you may have heard our Economic Development Team 26 touting the success we had with what is called the Quarter Project. The Quarter 27 Project is a mixed-use development of some sorts. It has a gas station with a 28 convenient store attached to it. It has two potential restaurant pads, one 29 multitenant building, and then the key on that site is two hotel sites, and one of those hotel sites has already gone through the permitting process and the site is 30 currently being graded, and it shows the current grading activity. We're very 31 32 proud that we've been able to attract the new auto dealership. This is Hyundai, which is getting close to opening. They haven't actually set the opening date, but 33 34 we think it will be may be before the end of the year, so that's what this one is. 35 On the commercial side, we also have continued development over in the Town The Town Gate Promenade area is the area close to where 36 Gate area. 37 Applebee's and Mimi's and Tilted Kilt and the new Aldi's market went it. Well, 38 right in that same parking lot, if you've been over there lately, you'll see this pad 39 that's being built on, and this will have three potential tenants in the future. We know who two of the potential tenants are but, because they haven't actually 40 gone public, we don't want to say it in public and kind of spoil their thunder or 41 steal their thunder. In addition, just activity going on in all of our other shopping 42 centers at Canyon Springs Plaza, we've issued permits for a variety of new 43 44 businesses. We've got Country Inn & Suites, which is one of those new hotels that we think is going to be going into construction here pretty soon. This is over 45 in the village area off of Sunnymead Boulevard right adjacent to SR60. It was 46

1 entitled many years ago, but they are now moving forward, and we think it's 2 going to be a nice attractive addition to Sunnymead. The Golden Corral is one 3 that I am, I guess, maybe going ahead of ... I think this has been publicized so I 4 am putting it out there but Golden Corral is looking at another site along Sunnymead Boulevard just west....or just east of Chuck E. Cheese. Moreno 5 Beach Plaza, we had a new AT&T store open in and another restaurant in the 6 7 Moreno Marketplace. Commercial activity that is not retail, we are seeing some 8 activity with medical-type uses, the Riverside University Health System. This is a 9 200,000 square foot medical office building, which has been approved in the 10 parking lot right next to the hospital. They are going through Planning Check, and they've actually allowed us an opportunity to review the onsite development. 11 12 So that's good, and they are also going through the state architect for their 13 approval of their building. And then you guys saw recently the Main Street 14 Transitional Care Facility, which is a 90-bed facility, which was approved, was entitled. They haven't come in yet for development, and we're not sure if they 15 are going to, but it's approved, so it's entitlement on the site, and we'll see what 16 17 happens with that. On the industrial side, we are still seeing continued development for large-box logistic-type facilities. These images, or the one that 18 is right here close to the Civic Center right across the street, has been going up 19 20 pretty fast. It's a little over 600,000 square feet and then, just a little further east of that, we recently brought a project before you by Core 5, this is a 99,000 21 22 square foot, almost 100,000 square-foot building, which is going through 23 Planning Check, so we see that they are going to be breaking ground pretty soon 24 also. In the south industrial area, I don't have any images of these, but you can 25 see the size of these developments that are progressing, going into construction, 26 is pretty significant and then last, but not least, the other stuff I was telling you 27 usually comes through our current Planning Group, and that's Chris Ormsby's team. So he has been very active but, on the Advanced Planning Side, and I've 28 29 got Mark Gross here this evening. He has been equally busy and maybe even more so in some regards with getting our Comprehensive General Plan off the 30 ground. We did release the RFP in October. We're expecting to get proposals 31 32 here November 9, 2017. We will be negotiating that contract and hopefully issuing a notice to proceed right at the beginning of the year, and it is a very 33 34 aggressive schedule. It is tied to the Strategic Plan that the City Manager and 35 the City Council worked very hard at approving back in August 2016 and, in that document, it targets the completion of the General Plan Update by August 2019. 36 37 So we are going to try and be very firm on meeting that deadline. In addition, 38 we've done some studies on Nason Corridor before, but the City owns about 65 39 acres of land at the corner of Nason and Alessandro. We were able to secure a grant, which I think I've told this Commission in the past, it has taken a little bit of 40 41 time to go through the SKAG (Southern California Association of Government) 42 process to actually procure a consultant but that is in progress. We are actually very, very close. Claudia has been working very hard and Mark is also involved 43 44 in that. Once we get the consultant started, they've given us a year to finish it 45 but, because of the information that will come out of it, it will be tied to the General Plan Update. We are going to be pushing that to get done closer to like 46

1 a nine-month period of time. Also, we are happy to say that we've been able to secure some additional outside grants. This one is about \$65,800 from Western 2 Riverside Council to Governments. The money was secured just a couple of 3 4 months ago, and we're now in the consultant selection process. The RFP will go 5 on the street, I think, within the next week. We hope to do that in a very timely fashion and, again, because of the Healthy Community Study, we'll be feeding 6 7 into the health element that we're trying to develop in the General Plan. We want 8 to get that done also in a very timely manner, so I've put up here 9 months, and that'll be a very aggressive schedule. I think that is my last slide. Maybe not. 9 10 I'm sorry. The last slide here is, in addition to the other work that we're doing here for our own City, we have to monitor what goes on around us. And so, on 11 12 Mark's team, there's a lot of Notice of Preparation's that come in, EIR 13 documents, sometimes Mitigated Negative Declarations for projects that are going on in the City of Riverside, the County of Riverside, the City of Perris, 14 March AFB, are the ones right around our border, but we don't stop there. 15 Sometimes, if we see something that is large enough that has the potential of 16 causing some impacts in our City, we'll actually comment on those as well and 17 there was recently one in the County of Riverside. Actually, I think it was the 18 19 County of San Bernardino, it might be, which is up off the 10 Freeway, just over 20 in the Beaumont/Cherry Valley area that we were looking at. If you've read in the newspaper, it's a pretty large facility. Then we also track legislation, and we also 21 22 follow the CEQA regulations, and this is kind of a joint effort between both our 23 Advanced Planning and Current Planning Teams. So we're staying pretty busy. 24 What I didn't show up here was the amount of activity that comes through our 25 Development Services Center, and last year we continued to implement the 26 Simplicity System. The Simplicity System is our development tracking system 27 and our permitting system that is making our activities much more transparent, so applicants can actually log on and see what's in the hopper. Hopefully, in the 28 29 future as that thing continues to grow, we'll actually be able to see how it is progressing and where it is at and maybe even be able to see some of the 30 documents where we can load them up into the system, so that's been working 31 32 very well. With that, I will stop, and it is a nice evening. I know that some people 33 may want to get off to places. It's still an early hour, so. 34

- 35 <u>CHAIR BARNES</u> Thank you, Rick. I appreciate all the info. It seems that a lot
 36 is going on in the city, and that's a good thing.
- 37
- 38 <u>COMMISSIONER SIMS</u> Do you make this presentation to the Council?
 39
- 40 PLANNING OFFICIAL RICK SANDZIMIER I have not. I don't want to take the 41 credit for this being my great idea. This was actually your Chairman who thought 42 that we could use some of the time on the Agenda this evening to make you guys 43 aware, so I appreciate Chairman Barnes asking me to make this. It actually 44 makes me feel good about what we're doing because sometimes we get lost in 45 the heat and you don't really realize how much is going on.

35

COMMISSIONER SIMS - Well, I don't speak for the other Commissioners, but I 1 think this is...I mean, as the sea rises, all the votes go up and so when you see 2 this kind of....that's significant activity, and I particularly like the whole medical 3 4 health thing. I think the city, I mean, I know we have our logistics stuff and all that, but I really think that that's, you know, the economic development arm 5 should really hammer at trying to get as much as they possibly can and get as 6 7 much synergy out of that. Those are higher-skilled jobs and put a lot of people to 8 work, even with the care-facility type things. People need help and why not have 9 Moreno Valley provide that help. So, anyhow, I would think that it would be very 10 good to have the presentation made to the Council to let them know what's going on. I mean, they probably already....they do know what's going on, but it's good 11 12 at the Council meeting. There's a little bit more notoriety and attendance and 13 whatnot so. 14

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<u>CHAIR BARNES</u> – Thank you, I agree totally. Anybody else?

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PLANNING COMMISSIONER COMMENTS

CHAIR BARNES - Any wrap-ups? Alright.

ADJOURNMENT

25 26 27

<u>CHAIR BARNES</u> – Well, Staff, thank you very much. I appreciate your patience
 and your help, and I guess, with that, we will adjourn the meeting until the.....

30 31

32 PLANNING OFFICIAL RICK SANDZIMIER – Can I just add one thing? We are 33 going to have a meeting on November 9, 2017. It will be a very light Agenda at 34 this point, but we have one project that came in very fast. We're going to 35 process it. It has to do with repainting a building. It may seem kind of simple, but 36 we'll have one item on your Agenda. It's the large building down here at the end 37 of Veterans Way and Newhope so.

- 38
- 39

40 **CHAIR BARNES** – Okay, Brian.

41
42 <u>COMMISSIONER LOWELL</u> – I'd like to wish everyone a Happy Halloween.
43 Halloween is Tuesday. If you're not here at City Council Chambers, make sure
44 you're out trick-or-treating and, if you are, be safe. Wear something light colored.
45 My kids will be out there. They look forward to it every year, so Happy
46 Halloween everybody.

CHAIR BARNES – Thanks,	Commissioner Lowell. Alright, we are officiall
)17, here in these chambers. Thanks everyone.
,	, , , , , , , , , , , , , , , , , , ,
NEXT MEETING	
	nmission Regular Meeting, November 9, 2017 a
	ley, City Hall Council Chamber, 14177 Frederic
Street, Moreno Valley, CA 925	
Richard J. Sandzimier	Date
Planning Official	
Approved	
Jeffrey Barnes	Date
Chair	2010

1	CITY OF MORENO VALLEY PLANNING COMMISSION REGULAR MEETING
2 3	CITY HALL COUNCIL CHAMBER – 14177 FREDERICK STREET
4	
5	Thursday, November 9, 2017 at 7:00 PM
6	
7 8	CALL TO ORDER
9	
10 11	CHAIR BARNES – Good evening ladies and gentlemen. I would like to call to
12	this regular-scheduled meeting of the Planning Commission Meeting to order. It
13 14	is Thursday, November 9, 2017, and the time is 7:03 PM. Can we have roll call please?
15	
16 17	ROLL CALL
18	
19 20	Commissioners Present: Commissioner Lowell
20	Commissioner Baker
22	Vice Chair Korzec
23 24	Chair Barnes
25	Commissioner Sims - absent
26 27	Staff Present:
28	Rick Sandzimier, Planning Official
29 30	Paul Early, Assistant City Attorney Ashley Aparicio, Recording Secretary/Administrative Assistant
31 32	
32 33	Speakers:
34 35	Rafael Brugueras
35 36	
37 38	PLEDGE OF ALLEGIANCE
39	
40 41	<u>CHAIR BARNES</u> – Thank you, now would one of the Commissioners like to lead us in the Pledge of Allegiance?
42	
43 44	COMMISSIONER BAKER – I'll do it.

CHAIR BARNES – Commissioner Baker, thank you.	
APPROVAL OF THE AGENDA	
Approval of PC Agenda for November 9, 2017	
CHAIR BARNES – Thank you. Next item is approval of the Agenda.	
COMMISSIONER BAKER – I so approve.	
COMMISSIONER Barnes – I'll second.	
<u>COMMISSIONER LOWELL</u> – A motion from Commissioner Baker, a sector from Commissioner Barnes. All in favor, say aye.	ond
VICE CHAIR KORZEC – Aye.	
COMMISSIONER BAKER – Aye.	
COMMISSIONER LOWELL – Aye.	
<u>CHAIR BARNES</u> – Aye.	
<u>CHAIR BARNES</u> – Opposed? The motion carries 4-0.	
Opposed – 0	
Motion carries 4 – 0	
APPROVAL OF MINUTES	
None	
CHAIR BARNES – Next item is approval of Minutes, which there are none.	
CONSENT CALENDAR	
All matters listed under Consent Calendar are considered to be routine and will be enacted by one rollcall vote. There will be no discussion of these ite	

unless Members of the Planning Commission request specific items be removed
 from the Consent Calendar for separate action.

3 4

5 **<u>CHAIR BARNES</u>** – Next item is Consent Calendar. No items on the Consent 6 Calendar.

PLANNING OFFICIAL RICK SANDZIMIER – None.

8 9 10

7

11 PUBLIC COMMENTS PROCEDURE

12

13 Any person wishing to address the Commission on any matter, either under 14 Public Comments section of the Agenda or scheduled items or public hearings, must fill out a "Request to Speak" form available at the door. The completed 15 16 form must be submitted to the Secretary prior to the Agenda item being called by the Chairperson. In speaking to the Commission, member of the public may be 17 limited to three minutes per person, except for the applicant for entitlement. The 18 19 Commission may establish an overall time limit for comments on a particular 20 Members of the public must direct their questions to the Agenda item. 21 Chairperson of the Commission and not to other members of the Commission, 22 the applicant, the Staff, or the audience. Upon request, this Agenda will be made 23 available in appropriate alternative formats to persons with disabilities in compliance with the Americans with Disabilities Act of 1990. Any person with a 24 25 disability who requires a modification or accommodation in order to participate in a meeting should direct their request to Guy Pegan, our ADA Coordinator, at 26 27 (951) 413-3120 at least 72 hours prior to the meeting. The 72-hour notification will enable the City to make reasonable arrangements to ensure accessibility to 28 29 this meeting.

30 31

32 <u>CHAIR BARNES</u> – Next on the list, the Public Comments portion of the meeting.
 33 Any person wishing to speak, please fill out a Request to Speak form, and Rick
 34 will call your name.

35

36 <u>ADMINISTRATIVE ASSISTANT ASHLEY APARICIO</u> – Yes, I have Rafael 37 Brugueras.

38

39 **SPEAKER RAFAEL BRUGUERAS** – Good evening Chair and Commissioners, Staff, I went to a meeting on November 1, 2017, here at the center, and it was 40 hosted by Moreno Valley, but the Air Board were sharing the new rules about 41 trucking and all the regulations that are now here and will be enforced in 2020. 42 So I figured I'd bring you a gift, so you can be aware of the new rules that are 43 44 here now and in the future because these are the questions you're going to be 45 asking developers. What kinds of trucks are going to be coming into the city, so there are going to be changes. It was a packed house, and I talked to the CHP, 46

1 and I talked to the....to the....another group that goes around testing the trucks 2 for smoke. I saw the machinery, and they are out there. They are out there doing their job, and they will enforce the law. So the one thing that came to my 3 4 mind that now it is going to make it harder for trucks, especially older trucks, to get registered in the State of California, especially in 2020. Starting in 2020, they 5 must meet the standard or they cannot register their vehicles. So, from now on, 6 7 they have up to be to 2010. So you have heard this before from a developer. He 8 gave us this insight a few years back but, at that meeting, it came to light hearing 9 it from the professionals that this is going to happen in our state. I looked at all 10 the new equipment and all the new devices and all the new trucks, so there is going to be a big, big change, and one of the things that I wanted to bring and 11 12 share with you, in the pamphlet, you see a rig. A lot of people see these trucks 13 delivering merchandise, but you don't see them parked up against the supermarket. What you see are the smaller trucks. These truly are the main 14 15 trucks that you see in our city. These are the ones that deliver all over the place. This is what people see and, what I want you to know as you go on in the future, 16 is don't let people cause you to have a mistake between two trucks. Okay? 17 You're not going to see 4200 trucks...trips of these kinds of big trucks in the city. 18 19 You're going to see a lot of little ones, especially through the holiday. Big trucks come in. They park at some of these places where they dispatch the trailer. 20 Then these small trucks pick them up and then bring them into the city because 21 22 the city has pounds. They are not allowed to come into the city over 14,000 pounds or so. So you're not going to see big rigs, unless they are on the....how 23 do you call it...on the truck lane. If they are in the truck lane, they are allowed to 24 25 be there because I followed them, and I saw what they did, so they have it pretty well controlled in our city. So these are the new rules that are coming. Thank 26 27 you. 28 29 **CHAIR BARNES** – Thank you, Mr. Brugueras. Any more public speakers? 30 31 ADMINISTRATIVE ASSISTANT ASHLEY APARICIO - No. 32 33 **CHAIR BARNES** – Alright. 34 35 36

37 <u>NON-PUBLIC HEARING ITEMS</u> 38

None

- 39 40
- 41 <u>CHAIR BARNES</u> Moving on next, Non-Public Hearing Items. It appears we
 42 have none.
 43

- 44 **PLANNING OFFICIAL RICK SANDZIMIER** We have none.
- 45

2 of t	<u>CHAIR BARNES</u> – Excellent, moving along. Now to the Public Hearing portion of the meeting. Case 1, PEN17-0164. The Applicant is Westcore II Newhope, LLC. Do we have a Staff Report?	
3 LLC 4	5. Do we have a Stall Report	ſ
5		
6 7 PU	BLIC HEARING ITEMS	
	Case:	PEN17-0164
	Applicant:	Westcore II Newhope, LLC
2 3	Owner:	Westcore II Newhope, LLC
4 5 6	Representative:	Nick Markos, Westcore
	Location:	22705 Newhope Street
8 9 0	Case Planner:	Claudia Manrique/Chris Ormsby
1 2	Council District:	1
3 4 5	Proposal:	Modification to Plot Plan approval to revise the exterior colors of an existing warehouse building.
6 7 8		
	AFF RECOMMENDATION	
	off recommends that the Plate 17-37, and thereby:	anning Commission APPROVE Resolution No.
	Environmental Quality Act (is exempt from the provisions of the California CEQA), as a Class 1 Categorical Exemption, 5301 for Existing Facilities; and
) 2.) I	APPROVE PEN17-0164 su included as Exhibit A.	bject to the attached Conditions of Approval
4 Co 5 ligh	mmission, I'll be giving the pr at agenda, and this is the on	NDZIMIER – Chairman Barnes, Members of the resentation this evening. I know we have a very ly thing we have, but it is important. So it is a asically consider the revised exterior colors for a

large building that is very close here to City Hall down at the end of the street 1 2 here at Veterans Way and Newhope. The actual Applicant is Westcore Newhope, LLC. They were invited to the meeting this evening. I'm not sure why 3 4 they didn't attend. They didn't call me or let me know, but they are aware that there is a meeting this evening. Westcore recently bought the building and 5 started to initiate a change of the paint. They told me they are investing about 6 7 \$65,000 to paint the building; however, the building caught several people's 8 attention. It was brought to my attention, you know, are they allowed to do such 9 a drastic change? Because, if you've driven by the building, you'll see that it is 10 much more bright. It is a white color, and they are incorporating their blue corporate color, which is kind of a blue or a purplish. This may be the Applicant 11 12 here. In any event, the original building, which is about 366,000 square feet, was 13 approved in 2013, and it had a slate of colors that were approved for the project. 14 The project site on the image that is shown up here on the screen is located just south of Alessandro Boulevard. It is visible from both at Alessandro Boulevard 15 and Cactus, because of its size, and it is book-ended by Veterans Way on the 16 east and Ellsworth on the west. It is the building about in the center of the 17 18 building there. When this project was approved, it required a Change of Zone, 19 and it required a Plot Plan, and the Change of Zone required both the Planning Commission consideration and the City Council consideration. So ultimately the 20 Plot Plan, which was approved, did include a slate of colors. 21 This is the 22 proposed colors that the Westcore would like to change the building to. It is 23 much more bright and white. It is, like I said, has a blue color band that is going 24 to be at the base of the building and then again at the top of the building. The 25 glazing on the building, which is the windows, they are not going to be changing. 26 Then the highlights on the building, I believe they are integrating some form of a 27 silver or grey, so it will be a white with a silver and the blue. The image up here 28 is maybe a little difficult to see, but we went out and we looked at what the 29 existing buildings around the site looked like today and the approach. If you're coming from along Veterans Way from Cactus, the bottom image there shows 30 grey and white smaller-scale business-park buildings and then it transitions to the 31 32 beige earth-tone colors of the large Westcore Building today. Off Ellsworth at Goldencrest, the image maybe doesn't pick it up, but it also a white with grey and 33 34 a little bit of beige colors to it. This is the color of the existing building. The 35 building here reflects more of the colors that are between this building and Alessandro in the commercial center. We have a commercial center that has a 36 couple of fast-food restaurants in it. There are small office buildings that were 37 38 used for educational purposes, and we recently had a banquet hall that was 39 finished in that complex. They all have earth-tone colors, and they are also using some stone veneer on the buildings, and that is also similar to the color palette 40 41 on the retail center that it off Ellsworth at Alessandro and just west of the site. 42 These images, which are in your Staff Report, were some pictures that we took of the building to show how the color is changing because the Applicant had 43 44 already started to paint to the building. We asked him to stop. They are anxious 45 to have this action taken by the Planning Commission, so that they can hopefully resume painting the building and complete it, and they said that they have 46

1 brokers and other people that they would like to invite to the building to start 2 trying to market it for new tenants. So we tried to expedite it to get to the Planning Commission as soon as possible. The images that I left on your dais 3 4 this evening are the stamped approved plans from the original approval, and it also includes, on the other side, Conditions of Approval P2. And, if you read 5 Condition P2, it said that the site shall be developed in accordance with the 6 7 approved plans on file with the Community and Economic Development 8 Department. Since these plans were stamped and approved, and they had a 9 color palette that was actually approved by this body, that is the reason he has to 10 come back to you for this modification. A building of this size can make a significant impact on the environment and in this area, because it was a Change 11 12 of Zone going from what allowed 50,000 square-foot buildings to allow the 13 366,000 square-foot buildings; the colors and materials were a point of 14 consideration in doing that approval. If you look at this image that I copied for you, it does look like it has some greens in it, and so I looked at that with the 15 staff, and we were trying to understand why doesn't the building look green 16 today? So we looked at some the colors. So the other sample you have in front 17 of you today is another sheet. It's what we took off the internet, and it is what 18 19 Nantucket Dune actually is supposed to look like, and all we could conclude is that the copy quality, what was ended up being put in our file, must have been 20 distorted by our color copier at the time, but this Sherman Williams Nantucket 21 22 Dune, which shows up as kind of a foam green actually was intended to be a beige, which is what is on the building today. So that's why these were put there 23 24 just for explanation purposes. With that, the description of the background of the 25 building and the reason it is here today, we found that the project is exempt from 26 CEQA, and we are asking for the Planning Commission to consider the 27 consideration for a Categorical Exemption as part of your decision and, if you agree and wish to approve the modifications, then we would ask you to approve 28 29 Resolution 2017-37 and thereby approve the Amended Plot Plan PEN17-0164. That concludes our presentation, and I'm here to answer any questions. 30 31

32 <u>CHAIR BARNES</u> – Thank you, Rick. Would the Applicant like to make a 33 comment?

APPLICANT NICK MARKOS - Nick Markos with Westcore Properties, owner of 35 the subject property. We appreciate Mr. Sandzimier working with us to get this 36 37 put on the agenda so quickly. We started painting and didn't realize that it 38 required other approvals from the City, so we do apologize that we didn't go 39 through the normal review process for this, but it is critical to our business plan to repaint this building. We recently purchased it in August. It has been vacant 40 41 since it was delivered in right around early 2015. We feel that it is a great 42 building, but we feel that it could use a refresher, and we have used this similar type of paint palette on other buildings that we have in our portfolio, and it has 43 44 done guite well and been well received in the market. We are looking to do this 45 quickly because we would like to start marketing the property. We already have

it marketed for lease; however, we would like to finish this and then start bringingin tours. So thank you, again, for hearing this tonight.

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<u>CHAIR BARNES</u> – Thank you. Any questions of Staff or the Applicant? Alright, well, Rick.

- PLANNING OFFICIAL RICK SANDZIMIER No, go ahead.
- 7 8 9

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10 **CHAIR BARNES** – You're right. So, if there are no further questions, then we 11 will open the Public Hearing, and do we have any speakers?

ADMINISTRATIVE ASSISTANT ASHLEY APARICIO – Yes, we have Rafael
 Brugueras.

15
 16 <u>CHAIR BARNES</u> – You're going to have to get a big sign....Public Comments.
 17 Thank you.

18 19 **SPEAKER RAFAEL BRUGUERAS** – Good evening again, Commissioners, Staff, and our guests. I went by that place, and it took me a while to find it 20 because my GPS threw me off. It's so easy to find it you go down Alessandro, 21 22 make that guick left, and then it is right there. I went from one end of the building 23 and to the other, and I looked at everything. I looked at the two-tone colors in the 24 neighborhood, the basic ones that we always pick. Okay, the ones right behind 25 you, that same type of color that we pick. So, anyway, I went and I took pictures 26 because I wanted to make sure that...because when I took a copy from my 27 printer, it looked like a lavender color, so I wasn't sure what color he was thinking 28 of. I thought it was going to be a brighter color but when I got there and I looked 29 at the original one that you saw and then I saw the one. I know it's far, but it is a beautiful picture. It's a beautiful grey with the white trimming, the nice blue on 30 the bottom and it goes....if you can see it...it goes all the way back. It's a real, 31 32 real nice white bright. It shows the building real well, so I'm thinking for the colors that he's using could be something with the sun hitting the wall, the white. 33 34 That's what I thought of, but it really stands out real pretty, especially if he is 35 using the color....because I just asked him. I wanted to make sure, before I speak, that it was going to be the one I liked, not the old one. So here's the old 36 one, and here's the new one. The new one looks real, real good. I mean, I can 37 38 give you my camera and you can look at it because, if you go by there, you'll see 39 beautiful charcoal grey with the nice white trimming, the real nice bright blue on the bottom, the royal-type blue, and then it is all white, real clean. It's a real nice 40 41 clean color. It's in a nice location, that building. It will stand out real well if you go look for it because, if you tell somebody to look for the brown building, you 42 can get lost in there because I did. So, if he said look for the blue, grey, and 43 44 white building, you can find it real fast, I hope, real guick. So it's a nice project. I 45 hope it gets approved, so we can start making the city look brighter instead of...l mean, there's nothing wrong with earth-tone colors, but we have so many of 46

them. They all look alike. We need to change a little bit, just a little bit. Thankyou so much.

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4 **<u>CHAIR BARNES</u>** – Thank you, Rafael. Any other speaker slips?

6 **ADMINISTRATIVE ASSISTANT ASHLEY APARICIO** – No.

8 **CHAIR BARNES** – Alright. With that, we will close the Public Hearing, and move 9 onto deliberation. Any questions? Commissioner Lowell.

10

COMMISSIONER LOWELL – I have one. In the Staff Report, it says, as part of 11 12 the original project of approvals for the Change of Zone and Plot Plan, colored 13 elevations that reflected the current color scheme represented to both the 14 Planning Commission and City Council and were presumed to have been an integral consideration for approval of the project; however, it is noted that the 15 color scheme was not included as a specific Condition of Approval of Mitigation 16 Measure for the project. If anybody wants to change the color of their building, 17 they have to come back in front of the Planning Commission and City Council? 18

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20 **PLANNING OFFICIAL RICK SANDZIMIER** – Not exactly. If they are changing the colors and they are consistent with the original colors, our Municipal Code 21 22 does identify use of earth-tone colors in most of our commercial centers and in our industrial complexes. There is an allowance for more whites and the greys. 23 24 In this particular instance, this building was a Business Park, and it was changed 25 to Light Industrial, which basically allowed it to have kind of a....it was on a 26 transition spot. I mean, on the north side of Newhope is a commercial center and, on the south side where this building exists, is now Light Industrial. So the 27 28 fact that this plan was actually stamped and approved and the colors were what 29 were actually adopted is why I felt that it was important to bring it back because it was such a large building. The other thing we were trying to reflect in that 30 statement in the Staff Report is that the colors themselves were not spelled out in 31 32 the Conditions of Approval, but Condition P2 does say that the building must comply with the approved plans that are on file. So that is why I gave you a copy 33 34 of this condition and so because this is the stamped plan and those are the 35 approved colors and because it did come through a hearing, our Municipal Code says that any modification to a Condition of Approval is subject to going back 36 through the original approval body. The original approval body in this particular 37 38 case is.....ultimately could be the City Council, but we're not asking for it to go 39 that far. We believe that we can exercise some discretion to bring it back just to 40 the Planning Commission at this point. In other instances where the ultimate 41 approval body might have been the Planning Commission and not the City 42 Council, we may exercise the right to delegate that responsibility to the Community Development Director in some commercial centers and in the 43 44 industrial complexes. I think it does....the code does allow for that discretion, so that's the one nuance here that it....this was a particular important decision by 45 the City. I wasn't here at the time that it was approved but, from what I heard 46

1 from the Staff, the color selection was an important consideration, the 2 landscaping, and that transition spot. We've had favorable comments on the existing building. Some people do like the color, but beauty is in the eye of the 3 4 beholder. I also thought that coming here this evening might be helpful if we could get your take on how you would like to see us address colors on projects. 5 We have lots of projects that are going to be coming through. We do pay 6 7 particular attention to them. The buildings across the street to the east of us are 8 adopting more of a cream or off-white colors, not such bright whites. I noticed 9 along the 215 in the March JPA areas, they use a lot more browns and earth-10 tone colors. I noticed, when you come off Cactus from the 215 where you can see this building, you're seeing most of those large buildings are using creams 11 12 and browns or earth-tone colors. In the south end of town, they are also starting 13 to use some more off-whites, with maybe a green or a greyish brown in some 14 areas. The Proctor Gamble building is probably the one that matches this one the closest, which is a very, very bright white building, and then the other one 15 that matches this building very closely that Westcore did point out was the 16 Federal Mogul building, which is right off Cactus right behind us, which is a very 17 stark white with a bright blue band around the top, so it is..... 18

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COMMISSIONER LOWELL – It's on Sketchers too....

22 PLANNING OFFICIAL RICK SANDZIMIER - And Sketchers is just a white 23 building for the most part. That particular developer does not like what you call is 24 the racing stripes. He likes to have a clean image and, if you look at the specific 25 plan that was approved for the World Logistics Center, he was very particular 26 that project did not want to have buildings that felt like they had kind of a patchwork on them, so he thinks that again, beauty is in the eye of the 27 28 beholder, but his vision for that area of town was going to be a different type of 29 architecture, a different type of pain schemes. So we have the white, grey, and the blue in other areas of the town. We have lots of beiges, and so we're just 30 looking to you guys to tell me if this is important enough to you guys or not so. 31

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33 **COMMISSIONER LOWELL** – Well what I was going to extrapolate to is, most of 34 the projects that come in front us, including Tentative Tract Maps, Parcel Maps, 35 these Plot Plans, generally have some sort of architecture, have some sort of elevation and color scheme. How far reaching does this go? 36 So. in my neighborhood, we had five different plans and three different elevations and 37 38 multiple color schemes. If my neighbor wants to change the color of his house to 39 something else, because most of the Conditions of Approval have a P2 or something along with that, to conform to the approved plans, does that 40 41 homeowner have to come back and get approval from the City to paint the 42 house? How far down does that go?

43

PLANNING OFFICIAL RICK SANDZIMIER – We have not...we have not
 exercised that. We have not asked those homeowners to come back us. We
 believe that the neighborhoods will somewhat self-regulate. If there is a

homeowners association that has color and architectural guidelines, that's one of
the options. There are some neighborhoods that don't have that level of detail.
We just don't...we don't drill down to that level at this point.

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COMMISSIONER LOWELL – Okay, thanks.

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CHAIR BARNES – Any other comments?

9 VICE CHAIR KORZEC - I would just like to say that, in the design industry, color 10 palettes change every seven years. You look at the color palettes in your home, and you're always refreshing and changing. The earth-tones are kind of phasing 11 12 out, and these new brighter colors are coming in. I think it's a beautiful color 13 scheme, and I think it really brings the building out, the elements, because industrial buildings can be really boring. But I think the design of this and the 14 way the color is put down in the new palette makes it look a lot more attractive for 15 the client, and I would like to see more buildings around here be brighter than the 16 regular earth tones. I love it. 17

18

19 **<u>CHAIR BARNES</u>** – Personal observation. I'm reluctant to tell people what to do, 20 at least to this extent, with their property. I think variety is good, and I would not normally weigh in on the color of a building unless it was really, really bad. So, 21 22 yeah, in the future, it is not something I am particularly concerned with. I would 23 like the market to drive how buildings look and all that because we want to 24 welcome all comers and people that have new ideas. We don't want to push 25 them away by being too restrictive. I don't have a problem with it at all, and I 26 generally don't for future.

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<u>COMMISSIONER BAKER</u> – I personally think it's a great project, and I would
 like to see us move forward with it. Let's get it going.

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31 <u>CHAIR BARNES</u> – Oh yeah, yeah, I don't think this is a big deal. So anybody
 32 want to make a motion?

34 <u>COMMISSIONER LOWELL</u> – First off, I think we should make all developers
 35 paint half the building so we can see what it looks like and then make a decision.
 36 I think that'd be a great idea. I'm sorry.

38 **CHAIR BARNES** – That doesn't answer my question.

40 <u>COMMISSIONER LOWELL</u> – I'll make a motion to approve Resolution No.
 41 2017-37 recognizing that this item is exempt from CEQA and approve PEN17 42 0164 subject to the attached Conditions of Approval.

11

- 44 **COMMISSIONER BAKER** I'll second.
- 45

CHAIR BARNES - Alright. We have a motion from Commissioner Lowell and a 1 2 second from Commissioner Baker. Please vote. Waiting on Commissioner 3 Sims. The motion carries 4-0. Do we have a wrap-up from Staff? 4 5 6 Opposed - 0 7 8 9 Motion carries 4 – 0 10 **PLANNING OFFICIAL RICK SANDZIMIER** – The action you did take is an 11 12 appealable action. If any interested party would like to file an appeal, they can 13 file an appeal through the Community Development Director within 15 days of 14 this action. If an appeal is filed, it will be taken forward to the City Council within 30 days for consideration. 15 16 CHAIR BARNES – Thank you, Rick. Let's see. I think that pretty much covers 17 18 it. 19 20 21 **OTHER COMMISSION BUSINESS** 22 23 24 PLANNING COMMISSIONER COMMENTS 25 26 **CHAIR BARNES** – Any Commissioner comments? 27 28 29 **STAFF COMMENTS** 30 31 32 **CHAIR BARNES** – Any Staff comments? 33 34 **PLANNING OFFICIAL RICK SANDZIMIER** – Actually, I would like to just, under 35 Staff Comments, just talk about this particular issue a little bit further. Having heard the dialogue from the Commission. I think it would be helpful if you would 36 give us a little bit of direction. What I'm taking from this is maybe you would be 37 38 okay with us delegating this sort of a decision to the Community Development 39 Director, and we could make it at the Staff level if we thought it was an issue. I also want to point out that, not too long ago, probably within the last four or five 40 41 months, the Avocado Burger restaurant across the street at Frederick and 42 Alessandro was repainted, and it was actually repainted a very awkward yellowish-green color, and we did get some comments about it, and we reached 43 44 out to them. As a courtesy, we wrote them a letter and said, hey, well our Code

does have some guidelines on making sure that buildings look compatible with their adjacent buildings of the neighborhood for the good of the esthetics of the

1 community. When we actually contacted the manager, the manager's feedback 2 was, you know what, we really don't like the color anyways, so we appreciate you telling us, and we'd love to work with you. We want to be good neighbors, and 3 they ended up painting that building pretty quickly, and it actually blends in with 4 the neighborhood a little differently than that yellow. So we, as Staff, we're just 5 trying to keep the city going in a direction where things will likely fit. We don't 6 7 want to overstep our bounds, and we don't want to tell people you can't have 8 some of their own interests expressed in their homes and stuff. So I just wanted 9 to ask if you guys could give us some parameters. When you say that you don't 10 want to hear about colors, I understand that. I'll take that back and we won't bring colors here but, if there are some guidelines if they are really bright, or if 11 12 they are zebra striped, or if they are...I mean, what are you asking us to look for? 13

14 <u>COMMISSIONER LOWELL</u> – I think, as a failsafe, just bring it in front us of, just 15 to cover our bases, to cover your bases. It opens up a discussion in case some 16 neighbors don't want it. It gives the neighbors a forum to speak, but generally I 17 don't think colors are a big deal.

- 18
- 19 20

PLANNING OFFICIAL RICK SANDZIMIER – Okay, okay.

21 **VICE CHAIR KORZEC** – Well I think if you stick to neutral palettes 22 (whites/beiges) with accents of different colors. I think if you're going to go for a 23 purple building or a red building, which would be my choice but not the 24 neighborhoods choice, so if it's something that's just so awkward and so off, then 25 I would bring it to us but, as long as it is in those color bands, especially the 26 brighter ones, I would find appealing, but no zebra stripes.

27

PLANNING OFFICIAL RICK SANDZIMIER – So I appreciate the feedback, and I
 apologize this was the only thing on the agenda but, to me, if was helpful for me
 and the Staff. So thank you very much.

31

32 CHAIR BARNES - Yeah, the only observation I was going to make is, 33 unfortunately I think it is kind of a very fine line and you don't know until you 34 actually see it in the flesh and so, again, I would be reluctant to be overly 35 controlling. I would err on the side of caution, not tell people what to do, and let the market and the public speak out....yeah, you're going to strike out 36 37 occasionally, but they only way that you can break new ground and push the 38 envelope is to try things. They don't always work, but I think it's worth the risk, as 39 opposed to dictating what people do with those types of things, whether it is 40 architectural or color. I like the variety.

13

41

42 **VICE CHAIR KORZEC** – Me too.

- 43 44
 - 45

CHAIR BARNES – At least the attempt at it. Any other comments?

46 **<u>COMMISSIONER BAKER</u>** – I'm good.

1 2 3	<u>CHAIR BARNES</u> – Well congratulations to the Applicant. You can get the rollers out and get painting. Thank you, Staff for the report.
4 5 6	COMMISSIONER LOWELL – Everybody have a happy Thanksgiving.
0 7 8	VICE CHAIR KORZEC – Yes.
9 10 11	CHAIR BARNES – Yeah, oh, that's right.
12 13	ADJOURNMENT
14 15 16 17	<u>CHAIR BARNES</u> – We will, at this point, adjourn the meeting to the next regular- scheduled meeting on December 14, 2017. Is that correct, Rick?
17 18 19	COMMISSIONER BAKER – Yes.
20 21 22	CHAIR BARNES – Alright, the meeting is adjourned. Thank you.
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	NEXT MEETING Next Meeting: Planning Commission Regular Meeting, December 14, 2017 at 7:00 PM, City of Moreno Valley, City Hall Council Chamber, 14177 Frederick Street, Moreno Valley, CA 92553.
 38 39 40 41 42 43 44 45 46 	Richard J. Sandzimier Date Planning Official Approved

Chair

10

Date





STAFF REPORT

Meeting Date: December 21, 2017

PLOT PLAN FOR A PROPOSED 4,236 SQUARE FOOT DONUT SHOP/CONVENIENCE STORE

Case:	PEN16-0107 Plot Plan	

Applicant: Gary Wang & Associates

Owner: Yum Yum Donut Shop Inc.

Representative: Grachel Cornelio of Gary Wang & Associates

Location: Northwest corner of Alessandro Boulevard and Day Street

Case Planner: Gabriel Diaz

Council District: 1

SUMMARY

The applicant, Gary Wang & Associates, is seeking approval of a Plot Plan to allow for the development of a 4,263 square foot Winchell's Donut shop and convenience store on a 0.6 acre site located at the northwest corner of Alessandro Boulevard and Day Street. The project as designed has been found to be consistent with the objectives, goals and policies outlined in the City's General Plan and Municipal Code, as well as being compatible with the existing and planned land uses in the project area. The project is being recommended for approval.

PROJECT DESCRIPTION

Project

The applicant, Gary Wang & Associates, submitted a Plot Plan application for a 4,263 square foot donut shop and convenience store. The Plot Plan has been evaluated particularly against General Plan Objective 2.4, which calls for commercial areas within

the City to be conveniently located, efficient, attractive, and have safe and easy pedestrian and vehicular circulation in order to serve the retail and service commercial needs of Moreno Valley residents and businesses. Staff has confirmed the proposed project meets this goal and does not conflict with other goals, objectives, policies, or programs set forth in the General Plan.

The architectural design of the building strives to achieve an attractive and appealing structure that will be located at a prominent street corner, Alessandro Boulevard and Day Street. The building has a contemporary modern style, includes an elongated pitched roof and a prominent tower feature at the building's main entrance. Exterior finishes are proposed to include a blend of earth tones, veneer stone treatments, fiber cement vintage wood, anodized steel awnings, and a standing seemed metal roof on entrance tower element.

Staff has found the proposed project should add economic vitality and architectural character along this portion of Alessandro Boulevard, which is highly desirable given its proximity to this westerly gateway to the City. The applicant has worked closely with staff in achieving an enhanced design of the project.

<u>Site</u>

The project site is located at the northwest corner of Alessandro Boulevard and Day Street. The project topography is relatively flat with a gentle downward slope from south to northwest. There are several mature trees along the western property line and some old tree stumps that have grown in to shrubs remain on the site. The site is small at 0.6 acre, and has no natural features such as rock outcroppings, water features or prior structures that might limit the developable area of the site. Public sidewalks along both the Alessandro Boulevard and Day Street frontages are in place. One wooden utility pole supporting overhead electrical utility is present along the Alessandro Boulevard frontage. The site has been cleared routinely for weed abatement.

The project site is comprised of two rectangular parcels of about the same size (Assessor's Parcel Number 263-230-012 and 263-230-013) totaling 0.6 acres. The current zoning designation for the project site is (CC) Community Commercial. The General Plan land use designation for the project site is (C) Commercial. The project has been conditioned by Public Works for the two parcels to be merged prior to building permits.

Surrounding Area

The project site is bounded to the south by Alessandro Boulevard and to the west by Day Street. The properties directly adjacent to the project site on the north and west are zoned community commercial (CC). The property to the north has been previously developed with residential units, which qualify as legal non-conforming uses and structures. A small grocery store, La Buena Market, is located to the immediate west of the site, and is operating consistent with the provisions of the Community Commercial (CC) zoning designation. To the south across Alessandro Boulevard, there is an existing self-storage facility. The current zoning designation is Community Commercial (CC). To the southeast across Alessandro Boulevard there is an existing warehouse

facility, and the current zoning designation is Industrial (I). The land immediately east of the site across Day Street is vacant and predominantly City owned land. It is zoned for multi-family residential up to 30 dwelling units per acre (Residential 30).

Access/Parking

Primary direct access to the proposed development will be from a driveway on Alessandro Boulevard and a driveway off of Day Street. Both driveways will be restricted to right-in and right-out movements only.

As proposed the project will exceed the Municipal Code requirements for parking. A total of 19 parking spaces are required. The project as designed provides 20 spaces including a carpool space and one fuel efficient vehicle parking space. The project as designed satisfies all parking requirements of the City's Municipal Code including ADA accessible parking and parking considerations for fuel efficient vehicles.

The driveways and interior drive aisles within the site have been reviewed and found to be adequate for truck maneuvering and turnaround for delivery trucks and trash pick-up. In addition the site has been found acceptable by the Fire Prevention Bureau for fire truck access.

Design/Landscaping

This project structures, parking and access infrastructure, as designed and conditioned, conform to all development standards of the Community Commercial zone and the design guidelines for a commercial use as required by the City's Municipal Code.

Furthermore, the project has been designed to meet required landscaped standards and landscaping objectives as set forth in the City's Municipal Code. The landscape elements of the project include the landscape setback areas along Alessandro Boulevard and Day Street, parking lot landscape, street trees and landscape treatments around the perimeter of the site.

REVIEW PROCESS

In accordance with the Municipal Code, the project was reviewed by the Project Review Staff Committee (PRSC) in May 2017. All staff comments generated throughout the multiple plan reviews for the project have been addressed and are reflected in the final project plans, Preliminary Water Quality Management Plan and through specific conditions of approval included as an exhibit to the recommended Resolution for the project. Given the project site's proximity to the March Air Reserve Base, the project application has been reviewed by the Riverside County Airport Land Use Commission (ALUC). Conditions of approval requested by the ALUC have been included in the exhibit to the recommended Resolution for the project.

ENVIRONMENTAL

The project has been reviewed in accordance with the latest edition of the California Environmental Quality Act (CEQA) Guidelines and staff has determined the project will not result in the potential for a significant effect on the environment and has determined

the project qualifies for a Class 32 exemption, Section 15332 of the CEQA Guidelines as an In-Fill Development.

NOTIFICATION

The public hearing notice for this project was published in the local newspaper on December 10, 2017. Public notices were sent to all property owners of record within 300 feet of the project site on December 7, 2017. The public hearing notice for this project was posted on the project site on December 8, 2017.

As of the date of report preparation, staff has received no phone calls or correspondence in response to the noticing for this project.

REVIEW AGENCY COMMENTS

Staff has coordinated with outside agencies on the review of the project. Conditions of approval have been included as requested by the Riverside County Airport Land Use Commission.

STAFF RECOMMENDATION

Staff recommends that the Planning Commission **APPROVE** Resolution No. 2017- 43, and thereby:

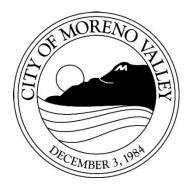
- 1. **CERTIFY** that the proposed Plot Plan is exempt from the provisions of the California Environmental Quality Act (CEQA), as a Class 32 Categorical Exemption, CEQA Guidelines, Section 15332 (In-Fill Development); and
- 2. **APPROVE** Plot Plan PEN16-0107 based on the findings contained in Planning Commission Resolution 2017- 43, subject to the conditions of approval included as Exhibit A of the Resolution.

Prepared by: Gabriel Diaz Associate Planner Approved by: Allen Brock Community Development Director

ATTACHMENTS

- 1. Public Hearing Notice
- 2. Aerial Photo
- 3. Zoning Map
- 4. Resolution 2017-43
- 5. Conditions of Approval PEN16-0107
- 6. Riverside County Airport Land Use Commission COAs
- 7. Project Plans

8. Project Material Board



This may affect your property Notice of PUBLIC HEARING

Notice is hereby given that a Public Hearing will be held by the Planning Commission of the City of Moreno Valley on the following item(s):

Project:	PEN16-0107 – Plot Plan
Applicant: Owner:	Gary Wang & Associates Yum Yum Donut Shop Inc.
• · · · · · · ·	Grachel Cornelio of Gary Wang & Associates
A.P. No: Location:	263-230-012 and 263-230-013 North-west corner of Alessandro Boulevard
Proposal:	and Day Street A new 4,263 square foot Winchell's donut
Council District	shop and convenience store on .6 acres of land.

Council District: 1

Environmental Determination: Exempt. The project has been evaluated against criteria set forth in the California Environmental Quality Act (CEQA) Guidelines and it was determined that the project is consistent with all of the required conditions described in Section 15332 for a Class 32 Categorical Exemption. Therefore, a recommendation to find the project exempt from the provisions of the CEQA as a Class 31 Categorical Exemption, CEQA Guidelines, Section 15332 In-Fill Development Projects is being carried forward with the project.

A public hearing before the Planning Commission has been scheduled for the proposed project. Any person interested in commenting on the proposal and recommended environmental determination may speak at the hearing or provide written testimony at or prior to the hearing. The project application, supporting plans and environmental documents may be inspected at the Community Development Department at 14177 Frederick Street, Moreno Valley, California during normal business hours (7:30 a.m. to 5:30 p.m., Monday through Thursday and 7:30 a.m. to 4:30 p.m., Friday), or you may telephone (951) 413-3206 for further information.

The Planning Commission, at the Hearing or during deliberations, could approve changes or alternatives to the proposal. If you challenge any of these items in court, you may be limited to raising only those items you or someone else raised at the Public Hearing described in this notice, or in written correspondence delivered to the Planning Commission at, or prior to, the Public Hearing.



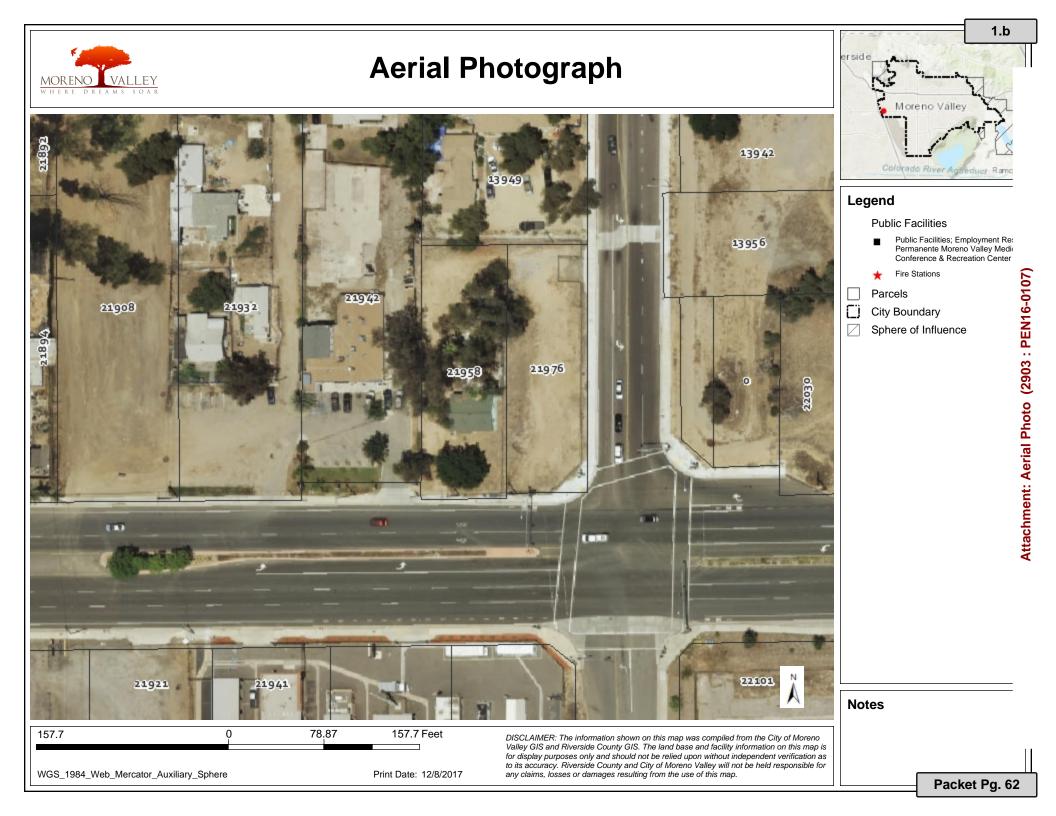
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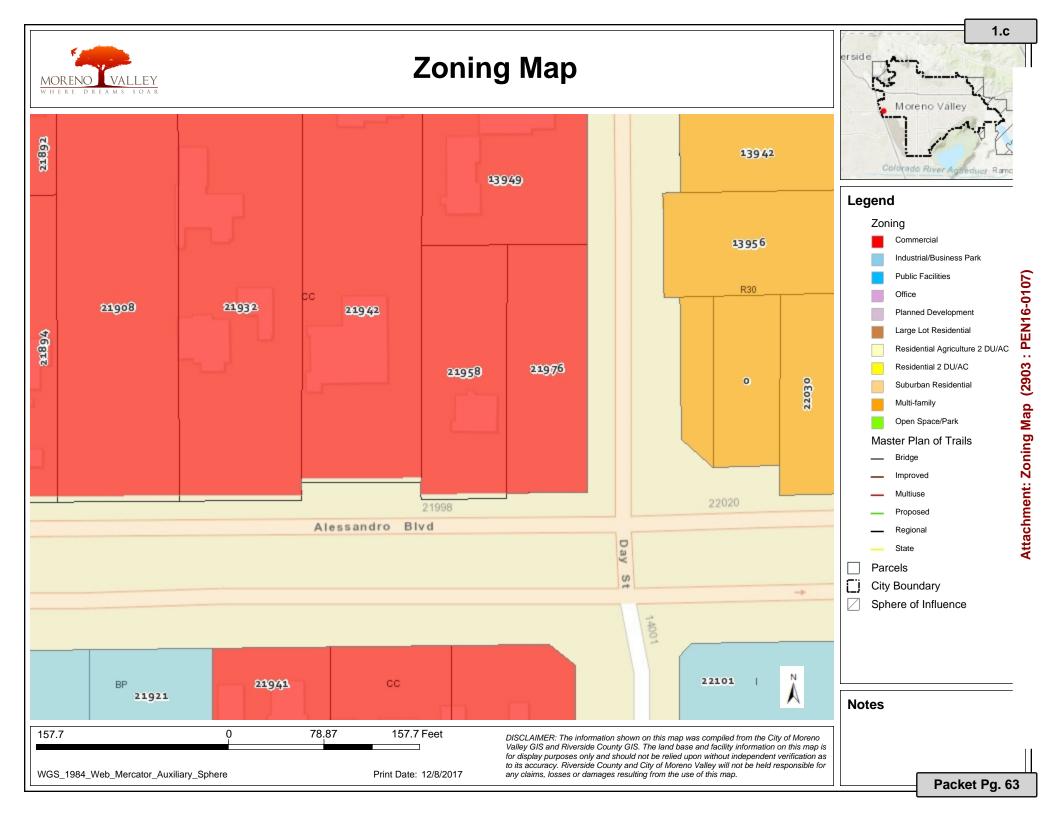
PLANNING COMMISSION HEARING

City Council Chamber, City Hall 14177 Frederick Street Moreno Valley, Calif. 92553

DATE AND TIME: December 21, 2017, 7:00 p.m. **CONTACT PLANNER:** Gabriel Diaz PHONE: (951) 413-3226

Upon request and in compliance with the Americans with Disabilities Ac of 1990, any person with a disability who requires a modification o accommodation in order to participate in a meeting should direct suc request to Guy Pegan, ADA Coordinator, at 951.413.3120 at least 4 hours before the meeting. The 48-hour notification will enable the City t make reasonable arrangements to ensure accessibility to this meeting.





A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF MORENO VALLEY APPROVING PLOT PLAN APPLICATION PEN16-0107 FOR DEVELOPMENT OF A 4,263 SQUARE FOOT DONUT SHOP AND CONVENIENCE STORE ON AN APPROXIMATELY 0.6 ACRE SITE LOCATED ON THE NORTHWEST CORNER OF ALESSANDRO BOULEVARD AND DAY STREET (ASSESSOR'S PARCEL NUMBER 263-230-012 AND 263-230-013).

WHEREAS, Gary Wang & Associates, has filed an application for the approval of Plot Plan PEN16-0107 for development of a 4,263 square foot Winchell's Donut shop and convenience store located on the northwest corner of Alessandro Boulevard and Day Street as described in the title above; and

WHEREAS, the application has been evaluated in accordance with established City of Moreno Valley (City) procedures, and with consideration of the Municipal Code, General Plan and other applicable regulations; and

WHEREAS, upon completion of a thorough development review process the project was appropriately agendized and noticed for a public hearing before the Planning Commission of the City of Moreno Valley (Planning Commission); and

WHEREAS, the public hearing notice for this project was published in the local newspaper on December 10, 2017; public notices were sent to all property owners of record within 300 feet of the project site on December 7, 2017; and the public hearing notice was posted on the project site on December 8, 2017; and

WHEREAS, on December 21, 2017, the Planning Commission held a public hearing to consider the application; and

WHEREAS, on December 21, 2017, the Planning Commission of the City of Moreno Valley made and issued an Environmental Determination that the project is exempt from the California Environmental Quality Act (CEQA) (Public Resources Code section 21000 et. seq.) under CEQA Guideline Section 15332, as a Class 32 exemption for In-Fill Development projects;

WHEREAS, all legal prerequisites to the adoption of this Resolution have occurred; and

WHEREAS, pursuant to Government Code Section 66020(d)(1), NOTICE IS HEREBY GIVEN that this project is subject to certain fees, dedications, reservations and other exactions as provided herein.

NOW, THEREFORE, BE IT RESOLVED, it is hereby found, determined and resolved by the Planning Commission as follows:

1.d

Α. This Planning Commission hereby specifically finds that all of the facts set forth above in this Resolution are true and correct.

Β. Based upon substantial evidence presented to this Planning Commission during the above-referenced meeting on December 21, 2017, including written and oral staff reports, public testimony and the record from the public hearing, this Planning Commission hereby specifically finds as follows:

1. Conformance with General Plan Policies - The proposed use is consistent with the General Plan, and its goals, objectives, policies and programs.

FACT: The project proposes development of a 4,263 square foot donut shop and convenience store on approximately 0.6 acre site. The General Plan land use designations for the project site is Commercial (C). The proposed development is consistent with General Plan Objective 2.4, which states "provide commercial areas within the City that are conveniently located, efficient, attractive, and have safe and easy pedestrian and vehicular circulation in order to serve the retail and service commercial needs of Moreno Valley residents and businesses."

The project as designed and conditioned will achieve the objectives of the City of Moreno Valley's General Plan. The proposed project is consistent with the General Plan and does not conflict with the goals, objectives, policies, and programs established within the Plan.

2. **Conformance with Zoning Regulations –** The proposed use complies with all applicable zoning and other regulations.

FACT: The project site is currently zoned Community Commercial (CC). The primary purpose of the Community Commercial (CC) district is to provide for the general shopping needs of area residents and workers with a variety of business, retail, personal and related or similar services.

The donut shop and convenience store use are permitted uses within the CC zone and would be compatible with and would not have a negative impact on other properties in the vicinity of the project location. The project is designed in accordance with the provisions of Section 9.04 Commercial Districts, Section 9.16 Design Guidelines of the City's Municipal Code. The project as designed and conditioned would comply with all applicable zoning and other regulations.

3. Health, Safety and Welfare - The proposed use will not be detrimental to the public health, safety or welfare or materially injurious to properties or improvements in the vicinity.

FACT: The proposed donut shop and convenience store project as designed and conditioned will provide acceptable levels of protection from

RESOLUTION NO. 2017-43

1.d

natural and man-made hazards to life, health, and property consistent with General Goal 9.6.1. The project site is located within approximately one and one quarter mile from Fire Station No. 6. Therefore, adequate emergency services can be provided to the site consistent with General Plan Goal 9.6.2.

The proposed project as designed and conditioned will result in a development that will minimize the potential for loss of life and protect residents and visitors to the City from physical injury and property damage due to seismic ground shaking and flooding as provided for in General Plan Objective 6.1 and General Plan Objective 6.2. The project as designed and conditioned will be consistent with the Community Commercial (CC) zoning.

The proposed donut shop and convenience store project will not be detrimental to the public health, safety or welfare or materially injurious to properties or improvements in the vicinity. Planning staff has reviewed the request in accordance with the latest edition of the California Environmental Quality Act (CEQA) Guidelines and has determined that the project qualifies for an exemption under the provisions of the CEQA as a Class 32 Categorical Exemption, CEQA Guidelines, and Section 15332 for In-Fill Development Projects.

The Class 32 exemption applies to this project because the donut shop and convenience store project is consistent with the criteria identified below:

- The project is consistent with the applicable general plan designation and all applicable zoning designation and regulations.
- The proposed development occurs within city limits on a project site of no more than five acres substantially surrounded by urban uses.
- The project site has no value as habitat for endangered, rare or threatened species.
- Approval of the project would not result in any significant effects relating to traffic, noise, air quality, or water quality.
- The site can be adequately served by all required utilities and public services.
- 4. Location, Design and Operation The location, design and operation of the proposed project will be compatible with existing and planned land uses in the vicinity.

FACT: The project site is consistent with the Commercial (C) General Plan and Community Commercial (CC) zoning designations. Based on the project location at the prominent intersection of Alessandro Boulevard

Packet Pg. 66

and Day Street, the donut shop and convenience store will provide ease of access and convenience to motorists and residents.

The project will be compatible with the neighborhood market to the immediate west, and is zoned for commercial consistent with the Community Commercial zoning to the north.

Overall, the proposed donut shop and convenience store development has been found to be consistent with the objectives, goals and policies outlined in the City's General Plan, as well as being compatible with the existing and planned land uses in the project area.

This project, as designed conforms to all development standards of the Community Commercial (CC) zone and the design guidelines for commercial developments prescribed in the City's Municipal Code and City Landscape Standards. The architectural design of the building strives to achieve an attractive and appealing image by locating the building at the street corner which is highly visible from of Alessandro Boulevard and Day Street. The building has a contemporary modern style along with elongated pitched roofs, and a prominent entrance feature. The entrance to the building has a tower type element that leads customers to the main entrance from the parking lot.

The proposed project will add economic vitality and architectural character along the Alessandro corridor in proximity to the westerly gateway to the City.

As designed and conditioned the proposed donut shop and convenience store project is compatible with existing and proposed land uses in the vicinity.

FEES, DEDICATIONS, RESERVATIONS, AND OTHER EXACTIONS

1. FEES

Impact, mitigation and other fees are due and payable under currently applicable ordinances and resolutions. These fees may include but are not limited to: Development Impact Fee, Transportation Uniform Mitigation Fee (TUMF), Multi-species Habitat Conservation Plan (MSHCP) Mitigation Fee, Stephens Kangaroo Habitat Conservation fee, Underground Utilities in lieu Fee, Area Drainage Plan fee, Bridge and Thoroughfare Mitigation fee (Future) and Traffic Signal Mitigation fee. The final amount of fees payable is dependent upon information provided by the applicant and will be determined at the time the fees become due and payable. Unless otherwise provided for by this Resolution, all impact fees shall be calculated and collected at the time and in the manner provided in Chapter 3.32 of the City of Moreno Valley Municipal Code or as so provided in the applicable ordinances and resolutions. The City expressly reserves the right to amend the fees and the fee calculations consistent with applicable law.

2. DEDICATIONS, RESERVATIONS, AND OTHER EXACTIONS

The adopted Conditions of Approval for PEN16-0107, incorporated herein by reference, may include dedications, reservations, and exactions pursuant to Government Code Section 66020 (d) (1).

3. CITY RIGHT TO MODIFY/ADJUST; PROTEST LIMITATIONS

The City expressly reserves the right to establish, modify or adjust any fee, dedication, reservation or other exaction to the extent permitted and as authorized by law.

Pursuant to Government Code Section 66020(d)(1), NOTICE IS FURTHER GIVEN that the 90 day period to protest the imposition of any impact fee, dedication, reservation, or other exaction described in this Resolution begins on the effective date of this Resolution and any such protest must be in a manner that complies with Section 66020(a) and failure to timely follow this procedure will bar any subsequent legal action to attack, review, set aside, void or annul imposition.

The right to protest the fees, dedications, reservations, or other exactions does not apply to planning, zoning, grading, or other similar application processing fees or service fees in connection with this project and it does not apply to any fees, dedication, reservations, or other exactions of which a notice has been given similar to this, nor does it revive challenges to any fees for which the applicable statute of limitations has previously expired.

BE IT FURTHER RESOLVED that the Planning Commission **HEREBY APPROVES** Resolution No. 2017-43, and thereby:

Attachment: Resolution 2017-43 [Revision 1] (2903 : PEN16-0107)

- 1. **CERTIFY** that this item is exempt from the provisions of the California Environmental Quality Act (CEQA), as a Class 32 Categorical Exemption, CEQA Guidelines, Section 15332 (In-Fill Development); and
- 2. **APPROVE** Plot Plan PEN16-0107 based on the findings contained in this resolution, and subject to the attached conditions of approval included as Exhibit A.

APPROVED this 21st day of December, 2017.

AYES: NOES: ABSTAIN:

> Jeffrey Barnes Chair, Planning Commission

ATTEST:

Richard J. Sandzimier, Planning Official Secretary to the Planning Commission

APPROVED AS TO FORM:

City Attorney

Exhibit A

CITY OF MORENO VALLEY CONDITIONS OF APPROVAL Plot Plan (PEN16-0107)

EFFECTIVE DATE: EXPIRATION DATE:

COMMUNITY DEVELOPMENT DEPARTMENT

Planning Division

- 1. Any expansion to this use or exterior alterations will require the submittal of a separate application(s) and shall be reviewed and approved under separate permit(s). (MC 9.02.080)
- 2. The developer, or the developer's successor-in-interest, shall be responsible for maintaining any undeveloped portion of the site in a manner that provides for the control of weeds, erosion and dust. (MC 9.02.030)
- 3. This approval shall expire three years after the approval date of this project unless used or extended as provided for by the City of Moreno Valley Municipal Code. (MC 9.02.230)
- 4. All landscaped areas shall be maintained in a healthy and thriving condition, free from weeds, trash and debris. (MC 9.02.030)
- 5. The site shall be developed in accordance with the approved plans on file in the Community Development Department Planning Division, the Municipal Code regulations, General Plan, and the conditions contained herein. Prior to any use of the project site or business activity being commenced thereon, all Conditions of Approval shall be completed to the satisfaction of the Planning Official. (MC 9.14.020)
- 6. All site plans, grading plans, landscape and irrigation plans, fence/wall plans, lighting plans and street improvement plans shall be coordinated for consistency with this approval.

Special Conditions

7. Plot Plan PEN16-0107 has been approved for the development of a 4,263 square foot Winchell's donut shop and convenience store project with twenty parking spaces on a 0.6 acre site. The project site is comprised of two parcels, Assessor's Parcel Number 263-230-012 and 263-230-013 located at the northwest corner of

Alessandro Boulevard and Day Street. The project as designed is consistent with the City's General Plan and the Municipal Code.

8. Plot Plan PEN16-0107 shall comply with the Riverside County Airport Land Use Commission (ALCU) conditions letter dated November 12, 2015.

Prior to Grading Permit

9. Prior to issuance of grading permits, the developer shall submit wall/fence plans to the Planning Division for review and approval as follows:

A. A maximum 6 foot high solid decorative block perimeter wall with pilasters and a cap shall be required adjacent to all residential zoned areas.

B. 3-foot high decorative wall, solid hedge or berm shall be placed in any setback areas between a public right of way and a parking lot for screening.

C. Any proposed retaining walls shall also be decorative in nature, while the combination of retaining and other walls on top shall not exceed the height requirement.

- 10. Prior to issuance of grading permits, the location of the trash enclosure shall be included on the plans.
- 11. Prior to the issuance of building permits, the developer shall provide documentation that contact was made to the U.S. Postal Service to determine the appropriate type and location of mailboxes.
- 12. Prior to issuance of any building permits, final landscaping and irrigation plans shall be submitted for review and approved by the Planning Division. After the third plan check review for landscape plans, an additional plan check fee shall apply. The plans shall be prepared in accordance with the City's Landscape Requirements and shall include:

A. Drought tolerant landscape shall be used.

B. Street trees shall be provided every 40 feet on center in the right of way.

C. On-site trees shall be planted at an equivalent of one (1) tree per thirty (30) linear feet of the perimeter of a parking lot and per thirty linear feet of a building dimension for the portions of the building visible from a parking lot or right of way. Trees may be massed for pleasing aesthetic effects.

D. Enhanced landscaping shall be provided at all driveway entries and street corner locations The review of all utility boxes, transformers etc. shall be coordinated to provide adequate screening from public view.

- E. Landscaping on three sides of any trash enclosure.
- F. All site perimeter and parking lot landscape and irrigation shall be installed prior

to the release of certificate of any occupancy permits for the site.

- 13. Prior to issuance of a building permit, the developer/property owner or developer's successor-in-interest shall pay all applicable impact fees due at permit issuance, including but not limited to Multi-species Habitat Conservation Plan (MSHCP) mitigation fees. (Ord)
- 14. Prior to final. the developer/owner developer's/owner's buildina or successor-in-interest shall pay all applicable impact fees, including but not limited to Transportation Uniform Mitigation fees (TUMF), and the Citv's adopted Development Impact Fees. (Ord)
- 15. Prior to or at building plan check submittal, two copies of a detailed, on-site, computer generated, point-by-point comparison lighting plan, including exterior building, parking lot, and landscaping lighting, shall be submitted to the Planning Division for review and approval prior to the issuance of a building permit. The lighting plan shall be generated on the plot plan and shall be integrated with the final landscape plan. The plan shall indicate the manufacturer's specifications for light fixtures used, shall include style, illumination, location, height and method of shielding per the City's Municipal Code requirements. After the third plan check review for lighting plans, an additional plan check fee will apply. (MC 9.08.100, 9.16.280)
- 16. Prior to issuance of building permits, screening details shall be addressed on the building plans for roof top equipment submitted for Planning Division review and approval through the building plan check process. All equipment shall be completely screened so as not to be visible from public view, and the screening shall be an integral part of the building.
- 17. Prior to issuance of grading permits, the developer shall pay the applicable Stephens' Kangaroo Rat (SKR) Habitat Conservation Plan mitigation fee. (Ord)

Prior to Building Final or Occupancy

- Prior to building final, all required landscaping and irrigation shall be installed per plan, certified by the Landscape Architect and inspected by the Planning Division. (MC 9.03.040, MC 9.17).
- 19. Prior to building final, Planning approved/stamped landscape plans shall be provided to the Community Development Department Planning Division on a CD disk.
- 20. Prior to building final, all required and proposed fences and walls shall be constructed according to the approved plans on file in the Planning Division. (MC

9.080.070).

Building Division

- 21. The proposed non-residential project shall comply with the latest Federal Law, Americans with Disabilities Act, and State Law, California Code of Regulations, Title 24, Chapter 11B for accessibility standards for the disabled including access to the site, exits, bathrooms, work spaces, etc.
- 22. Prior to submittal, all new development, including residential second units, are required to obtain a valid property address prior to permit application. Addresses can be obtained by contacting the Building Safety Division at 951.413.3350.
- 23. Contact the Building Safety Division for permit application submittal requirements.
- 24. The proposed project will be subject to approval by the Box Springs Mutual Water Company and all applicable fees and charges shall be paid prior to permit issuance. Contact the water company at 951.653.6419 for specific details.
- 25. Any construction within the city shall only be completed between the hour of seven a.m. to seven p.m. Monday through Friday, excluding holidays and from eight a.m. to four p.m. on Saturday, unless written approval is obtained from the city building official or city engineer (Municipal Code Section 8.14.040.E).
- 26. Building plans submitted shall be signed and sealed by a California licensed design professional as required by the State Business and Professions Code.
- 27. The proposed development is subject to the payment of applicable processing fees as required by the City's current Fee Ordinance at the time a building permit application is submitted or prior to the issuance of permits as determined by the City.
- 28. All new structures shall be designed in conformance to the latest design standards adopted by the State of California in the California Building Code, (CBC) Part 2, Title 24, California Code of Regulations including requirements for allowable area, occupancy separations, fire suppression systems, accessibility, etc. The current code edition is the 2016 CBC.
- 29. The proposed non-residential project shall comply with 2016 California Green Building Standards Code, Section 5.106.5.3, mandatory requirements for Electric Vehicle Charging Station (EVCS).
- 30. The proposed project's occupancy shall be classified by the Building Official and must comply with exiting, occupancy separation(s) and minimum plumbing fixture

requirements of the 2016 California Plumbing Code Table 4-1.

31. Prior to permit issuance, every applicant shall submit a properly completed Waste Management Plan (WMP), as a portion of the building or demolition permit process. (MC 8.80.030)

ECONOMIC DEVELOPMENT DEPARTMENT (EDD)

- 32. New Moreno Valley businesses may work with the Economic Development Department to coordinate job recruitment fairs.
- 33. New Moreno Valley businesses may adopt a "First Source" approach to employee recruitment that gives notice of job openings to Moreno Valley residents for one week in advance of the public recruitment.
- 34. New Moreno Valley businesses are encouraged to hire local residents.
- 35. New Moreno Valley businesses are encouraged to provide a job fair flyer and/or web announcement to the City in advance of job recruitments, so that the City can assist in publicizing these events.
- 36. New Moreno Valley businesses may utilize the workforce recruitment services provided by the Moreno Valley Employment Resource Center ("ERC").

The ERC offers no cost assistance to businesses recruiting and training potential employees. Complimentary services include:

- Job Announcements
- Applicant testing / pre-screening
- Interviewing
- Job Fair support
- Training space

FIRE DEPARTMENT

Fire Prevention Bureau

- 37. Prior to issuance of Certificate Occupancy Building Final. the of or applicant/developer shall install a fire sprinkler system based on square footage and type of construction, occupancy or use. Fire sprinkler plans shall be submitted to the Fire Prevention Bureau for approval prior to installation. (CFC Chapter 9, MVMC 8.36.100[D])
- 38. Prior to issuance of building permits, plans specifying the required structural

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materials for building construction in high fire hazard severity zones shall be submitted to the Fire Prevention Bureau for approval. (CFC, 4905)

- 39. Prior to issuance of Certificate of Occupancy or Building Final, all commercial buildings shall display street numbers in a prominent location on the street side and rear access locations. The numerals shall be a minimum of twelve inches in height. (CFC 505.1, MVMC 8.36.060[I])
- 40. Prior to issuance of Certificate of Occupancy, approval shall be required from the County of Riverside Community Health Agency (Department of Environmental Health) and Moreno Valley Fire Prevention Bureau to maintain, store, use, handle materials, or conduct processes which produce conditions hazardous to life or property, and to install equipment used in connection with such activities. (CFC 105)
- 41. Prior issuance of Certificate of Occupancy Building Final. to or the applicant/developer shall install a fire alarm system monitored by an approved Underwriters Laboratory listed central station based on a requirement for monitoring the sprinkler system, occupancy or use. Fire alarm panel shall be accessible from exterior of building in an approved location. Plans shall be submitted to the Fire Prevention Bureau for approval prior to installation. (CFC Chapter 9 and MVMC 8.36.100)
- 42. Prior to issuance of Building Permits, the applicant/developer shall participate in the Fire Impact Mitigation Program. (Fee Resolution as adopted by City Council)
- 43. Prior to construction, all locations where structures are to be built shall have an approved Fire Department access based on street standards approved by the Public Works Director and the Fire Prevention Bureau. (CFC 501.4)
- 44. Prior to issuance of Building Permits, the applicant/developer shall provide the Fire Prevention Bureau with an approved site plan for Fire Lanes and signage. (CFC 501.3)
- 45. Existing fire hydrants on public streets are allowed to be considered available. Existing fire hydrants on adjacent properties shall not be considered available unless fire apparatus access roads extend between properties and easements are established to prevent obstruction of such roads. (CFC 507, 501.3) a After the local water company signs the plans, the originals shall be presented to the Fire Prevention Bureau for signatures. The required water system, including fire hydrants, shall be installed, made serviceable, and be accepted by the Moreno Valley Fire Department prior to beginning construction. They shall be maintained accessible.
- 46. Final fire and life safety conditions will be addressed when the Fire Prevention

Bureau reviews building plans. These conditions will be based on occupancy, use, California Building Code (CBC), California Fire Code (CFC), and related codes, which are in effect at the time of building plan submittal.

- 47. The Fire Code Official is authorized to enforce the fire safety during construction requirements of Chapter 33. (CFC Chapter 33 & CBC Chapter 33)
- 48. Fire lanes and fire apparatus access roads shall have an unobstructed width of not less than twenty-four (24) feet for building below 35 feet in height and thirty (30) feet for buildings over 35 feet in height. as approved by the Fire Prevention Bureau and an unobstructed vertical clearance of not less the thirteen (13) feet six (6) inches. (CFC 503.2.1 and MVMC 8.36.060[E])
- 49. Prior to issuance of a Certificate of Occupancy or Building Final, a "Knox Box Rapid Entry System" shall be provided. The Knox-Box shall be installed in an accessible location approved by the Fire Code Official. All exterior security emergency access gates shall be electronically operated and be provided with Knox key switches for access by emergency personnel. (CFC 506.1)
- 50. During phased construction, dead end roadways and streets which have not been completed shall have a turn-around capable of accommodating fire apparatus. (CFC 503.1 and 503.2.5)
- 51. If construction is phased, each phase shall provide an approved emergency vehicular access way for fire protection prior to any building construction. (CFC 501.4)
- 52. Plans for private water mains supplying fire sprinkler systems and/or private fire hydrants shall be submitted to the Fire Prevention Bureau for approval. (CFC 105 and CFC 3312.1)
- 53. The Fire Prevention Bureau is required to set a minimum fire flow for the remodel or construction of all commercial buildings per CFC Appendix B and Table B105.1. The applicant/developer shall provide documentation to show there exists a water system capable of delivering said waterflow for 2 hour(s) duration at 20-PSI residual operating pressure. The required fire flow may be adjusted during the approval process to reflect changes in design, construction type, or automatic fire protection measures as approved by the Fire Prevention Bureau. Specific requirements for the project will be determined at time of submittal. (CFC 507.3, Appendix B)
- 54. Prior to issuance of Building Permits, the applicant/developer shall furnish one copy of the water system plans to the Fire Prevention Bureau for review. Plans shall: a. Be signed by a registered civil engineer or a certified fire protection engineer; b. Contain a Fire Prevention Bureau approval signature block; and c. Conform to hydrant type, location, spacing of new and existing hydrants and minimum fire flow

required as determined by the Fire Prevention Bureau. The required water system, including fire hydrants, shall be installed, made serviceable, and be accepted by the Moreno Valley Fire Department prior to beginning construction. They shall be maintained accessible.

PUBLIC WORKS DEPARTMENT

Land Development

- 55. A digital (pdf) copy of all approved improvement plans shall be submitted to the Land Development Division.
- 56. All applicable inspection fees shall be paid.
- 57. All work performed within public right-of-way requires an encroachment permit. Security (in the form of a cash deposit or other approved means) may be required as determined by the City Engineer. For non-subdivision projects, the City Engineer may require the execution of a Public Improvement Agreement (PIA) as a condition of the issuance of a construction or encroachment permit. All inspection fees shall be paid prior to issuance of construction permit. [MC 9.14.100(C.4)]
- 58. The developer shall comply with all applicable City ordinances and resolutions including the City's Municipal Code (MC) and if subdividing land, the Government Code (GC) of the State of California, specifically Sections 66410 through 66499.58, said sections also referred to as the Subdivision Map Act (SMA). [MC 9.14.010]
- 59. The final approved conditions of approval (COAs) issued by the Planning Division shall be photographically or electronically placed on mylar sheets and included in the Grading and Street Improvement plans.
- 60. The developer shall monitor, supervise and control all construction and construction supportive activities, so as to prevent these activities from causing a public nuisance, including but not limited to, insuring strict adherence to the following:

(a) Removal of dirt, debris, or other construction material deposited on any public street no later than the end of each working day.

(b) Observance of working hours as stipulated on permits issued by the Land Development Division.

(c) The construction site shall accommodate the parking of all motor vehicles used by persons working at or providing deliveries to the site.

(d) All dust control measures per South Coast Air Quality Management District (SCAQMD) requirements during the grading operations.

Violation of any condition, restriction or prohibition set forth in these conditions shall subject the owner, applicant, developer or contractor(s) to remedy as noted in City Municipal Code 8.14.090. In addition, the City Engineer or Building Official may

suspend all construction related activities for violation of any condition, restriction or prohibition set forth in these conditions until such time as it has been determined that all operations and activities are in conformance with these conditions.

- 61. Prior to any plan approval, a final detailed drainage study (prepared by a registered/licensed civil engineer) shall be submitted for review and approved by the City Engineer. The study shall include existing and proposed hydrologic conditions as well as hydraulic calculations for all drainage control devices and storm drain lines. [MC 9.14.110(A.1)]. A digital (pdf) copy of the approved drainage study shall be submitted to the Land Development Division.
- 62. In the event right-of-way or offsite easements are required to construct offsite improvements necessary for the orderly development of the surrounding area to meet the public health and safety needs, the developer shall make a good faith effort to acquire the needed right-of-way in accordance with the Land Development Division's administrative policy. If unsuccessful, the Developer shall enter into an agreement with the City to acquire the necessary right-of-way or offsite easements and complete the improvements at such time the City acquires the right-of-way or offsite easements which will permit the improvements to be made. The developer shall be responsible for all costs associated with the right-of-way or easement acquisition. [GC 66462.5]
- 63. The developer shall protect downstream properties from damage caused by alteration of drainage patterns (i.e. concentration or diversion of flow, etc). Protection shall be provided by constructing adequate drainage facilities, including, but not limited to, modifying existing facilities or by securing a drainage easement. [MC 9.14.110]
- 64. The tentative map, master plot plan, plot plan, or conditional use permit shall correctly show all existing easements, traveled ways, and drainage courses. Any omission may require the map or plans associated with this application to be resubmitted for further consideration. [MC 9.14.040(A)]

Prior to Grading Plan Approval

65. Two (2) copies of the final project-specific Water Quality Management Plan (WQMP) shall be submitted for review and approved by the City Engineer, which:

a. Addresses Site Design Best Management Practices (BMPs) such as minimizing impervious areas, maximizing permeability, minimizes directly connected impervious areas to the City's street and storm drain systems, and conserves natural areas;

b. Incorporates Source Control BMPs and provides a detailed description of their implementation;

c. Describes the long-term operation and maintenance requirements for BMPs

requiring maintenance; and

d. Describes the mechanism for funding the long-term operation and maintenance of the BMPs.

A copy of the final WQMP template can be obtained on the City's Website or by contacting the Land Development Division. A digital (pdf) copy of the approved final project-specific Water Quality Management Plan (WQMP) shall be submitted to the Land Development Division.

66. The developer shall ensure compliance with the City Grading ordinance, these Conditions of Approval and the following criteria:

a. The project street and lot grading shall be designed in a manner that perpetuates the existing natural drainage patterns with respect to tributary drainage area and outlet points. Unless otherwise approved by the City Engineer, lot lines shall be located at the top of slopes.

b. Any grading that creates cut or fill slopes adjacent to the street shall provide erosion control, sight distance control, and slope easements as approved by the City Engineer.

c. All improvement plans are substantially complete and appropriate clearance letters are provided to the City.

d. A soils/geotechnical report (addressing the soil's stability and geological conditions of the site) shall be submitted to the Land Development Division for review. A digital (pdf) copy of the soils/geotechnical report shall be submitted to the Land Development Division.

- 67. Grading plans (prepared by a registered/licensed civil engineer) shall be submitted for review and approved by the City Engineer per the current submittal requirements.
- 68. The developer shall select Low Impact Development (LID) Best Management Practices (BMPs) designed per the latest version of the Water Quality Management Plan (WQMP) - a guidance document for the Santa Ana region of Riverside County.
- 69. The developer shall pay all remaining plan check fees.

Prior to Grading Permit

- A receipt showing payment of the Area Drainage Plan (ADP) fee to Riverside County Flood Control and Water Conservation District shall be submitted. [MC 9.14.100(O)]
- 71. A digital (pdf) copy of all approved grading plans shall be submitted to the Land Development Division.
- 72. Security, in the form of a cash deposit (preferable), or letter of credit shall be

submitted as a guarantee of the implementation and maintenance of erosion control measures. At least twenty-five (25) percent of the required security shall be in the form of a cash deposit with the City. [MC 8.21.160(H)]

- 73. Security, in the form of a cash deposit (preferable), or letter of credit shall be submitted as a guarantee of the completion of the grading operations for the project. [MC 8.21.070]
- 74. The developer shall pay all applicable inspection fees.
- 75. Prior to the payment of the Development Impact Fee (DIF), the developer may enter into a DIF Improvement Credit Agreement to secure credit for the construction of applicable improvements. If the developer fails to complete this agreement prior to the timing specified above, no credits will be given. The developer shall pay current DIF fees adopted by the City Council. [Ord. 695 § 1.1 (part), 2005] [MC 3.38.030, 040, 050]
- 76. Prior to the payment of the Transportation Uniform Mitigation Fee (TUMF), the developer may enter into a TUMF Improvement Credit Agreement to secure credit for the construction of applicable improvements. If the developer fails to complete this agreement by the timing specified above, no credits will be given. The developer shall pay current TUMF fees adopted by the City Council. [Ord. 835 § 2.1, 2012] [MC 3.44.060]]

Prior to Improvement Plan Approval

- 77. The developer is required to bring any existing access ramps adjacent to and fronting the project to current ADA (Americans with Disabilities Act) requirements. However, when work is required in an intersection that involves or impacts existing access ramps, all access ramps in that intersection shall be retrofitted to comply with current ADA requirements, unless otherwise approved by the City Engineer.
- 78. The hydrology study shall be designed to accept and properly convey all off-site drainage flowing onto or through the site. All storm drain design and improvements shall be submitted for review and approved of the City Engineer. In the event that the City Engineer permits the use of streets for drainage purposes, the provisions of current City standards shall apply. Should the quantities exceed the street capacity or the use of streets be prohibited for drainage purposes, as in the case where one travel lane in each direction shall not be used for drainage conveyance for emergency vehicle access on streets classified as minor arterials and greater, the developer shall provide adequate facilities as approved by the City Engineer. [MC 9.14.110 A.2]
- 79. The plans shall indicate any restrictions on trench repair pavement cuts to reflect the

City's moratorium on disturbing newly-constructed pavement less than three (3) years old and recently slurry sealed streets less than one (1) year old. Pavement cuts for trench repairs may be allowed for emergency repairs or as specifically approved by the City Engineer.

80. The developer shall pothole to determine the exact location and elevation of existing underground utilities and incorporate the results into the design of the plans. The developer shall coordinate with all affected utility companies and bear all costs of utility relocations.

Prior to Building Permit

- 81. An engineered-fill certification, rough grade certification and compaction report shall be submitted for review and approved by the City Engineer. A digital (pdf) copy of the approved compaction report shall be submitted to the Land Development Division. All pads shall meet pad elevations per approved grading plans as noted by the setting of "blue-top" markers installed by a registered land surveyor or licensed civil engineer.
- 82. All outstanding fees shall be paid.
- 83. All required as-built plans (prepared by a registered/licensed civil engineer) shall be submitted for review and approved by the City Engineer per the current submittal requirements.
- 84. The engineered final/precise grade certification shall be submitted for review and approved by the City Engineer.
- 85. For non-subdivision projects, in compliance with Proposition 218, the developer shall agree to approve the City of Moreno Valley NPDES Regulatory Rate Schedule that is in place at the time of certificate of occupancy issuance. Under the current permit for storm water activities required as part of the National Pollutant Discharge Elimination System (NPDES) as mandated by the Federal Clean Water Act, this project is subject to the following requirements:

a. Select one of the following options to meet the financial responsibility to provide storm water utilities services for the required continuous operation, maintenance, monitoring system evaluations and enhancements, remediation and/or replacement, all in accordance with Resolution No. 2002-46.

i. Participate in the mail ballot proceeding in compliance with Proposition 218, for the Common Interest, Commercial, Industrial and Quasi-Public Use NPDES Regulatory Rate Schedule and pay all associated costs with the ballot process; or

ii. Establish an endowment to cover future City costs as specified in the Common Interest, Commercial, Industrial and Quasi-Public Use NPDES Regulatory

Rate Schedule.

b. Notify the Special Districts Division of the intent to request building permits 90 days prior to their issuance and the financial option selected. The financial option selected shall be in place prior to the issuance of certificate of occupancy. [California Government Code & Municipal Code]

86. The developer shall complete all public improvements in conformance with current City standards, except as noted in the Special Conditions, including but not limited to the following:

a. Street improvements including, but not limited to: pavement, base, curb and/or gutter, cross gutters, spandrel, sidewalks, drive approaches, pedestrian ramps, street lights, signing, striping, under sidewalk drains, landscaping and irrigation, medians, redwood header boards, pavement tapers/transitions and traffic control devices as appropriate.

b. Storm drain facilities including, but not limited to: storm drain pipe, storm drain laterals, open channels, catch basins and local depressions.

c. City-owned utilities.

d. Sewer and water systems including, but not limited to: sanitary sewer, potable water and recycled water.

e. Under grounding of all existing and proposed utilities adjacent to and on-site. [MC 9.14.130]

f. Relocation of overhead electrical utility lines including, but not limited to: electrical, cable and telephone.

- 87. For commercial, industrial and multi-family projects, a "Stormwater Treatment Device and Control Measure Access and Maintenance Covenant" shall be recorded to provide public notice of the maintenance requirements to be implemented per the approved final project-specific WQMP. A boilerplate copy of the "Stormwater Treatment Device and Control Measure Access and Maintenance Covenant" can be obtained by contacting the Land Development Division.
- 88. The applicant shall ensure the following, pursuant to Section XII. I. of the 2010 NPDES Permit:

a. Field verification that structural Site Design, Source Control and Treatment Control BMPs are designed, constructed and functional in accordance with the approved Final Water Quality Management Plan (WQMP).

b. Certification of best management practices (BMPs) from a state licensed civil engineer. An original WQMP BMP Certification shall be submitted for review and approved by the City Engineer.

89. The Developer shall comply with the following water quality related items:

a. Notify the Land Development Division prior to construction and installation of all structural BMPs so that an inspection can be performed.

b. Demonstrate that all structural BMPs described in the approved final

CONDITIONS OF APPROVAL

Plot Plan (PEN16-0107) Page 14

project-specific WQMP have been constructed and installed in conformance with the approved plans and specifications;

c. Demonstrate that Developer is prepared to implement all non-structural BMPs described in the approved final project-specific WQMP; and

d. Demonstrate that an adequate number of copies of the approved final project-specific WQMP are available for future owners/occupants.

e. Clean and repair the water quality BMP's, including re-grading to approved civil drawing if necessary.

f. Provide City with updated Engineer's Line and Grade Certification.

g. Obtain approval and complete installation of the irrigation and landscaping.

- 90. Prior to approval of the F-WQMP, the WQ BMPs shall be adequately sized for both the interim and ultimate condition for this project.
- 91. Prior to grading plan approval, the following shall be shown on the plans and dedications made via separate instrument and submitted to the City for review and approval:

i) A 4-foot pedestrian right-of-way dedication behind all driveway approaches per City Standard MVSI-112C-0.

ii) A 14-foot right-of-way dedication on the north side of Alessandro Blvd. per City Standard MVSI-101A-0 (134-foot RW / 110-foot CC) along the project's frontage.

iii) A 14-foot right-of-way dedication on the west side of Day Street per City Standard MVSI-105A-0 (88-foot RW / 64-foot CC) along the project's frontage.

- 92. Prior to Occupancy, the existing power pole that is in conflict with the proposed driveway location on Alessandro Blvd will need to either be relocated or undergrounded. If the developer chooses to relocate the power pole, in-lieu fees will need to be paid per MVMC 9.14.130.
- 93. Prior to Building Permit issuance, the project shall submit a Lot Line Adjustment to combine the two existing parcels into one parcel.

Special Districts Division

- 94. The ongoing maintenance of any landscaping required to be installed behind the curb shall be the responsibility of the property owner.
- 95. Any damage to existing landscape areas maintained by the City of Moreno Valley due to project construction shall be repaired/replaced by the Developer, or Developer's successors in interest, at no cost to the City of Moreno Valley.
- 96. This project is located within the Edgemont Community Services District for

streetlight services. Coordination of streetlight funding requirements should be made with the Edgemont Community Services District at Edgemont Community Services District, P. O. Box 5436, Riverside, CA 92514. Phone: 951.784.2411.

- 97. The parcel(s) associated with this project have been incorporated into the Moreno Valley Community Services District Zone A (Parks & Community Services). All assessable parcels therein shall be subject to the annual parcel tax for Zone A for operations and capital improvements.
- 98. This project is conditioned for a proposed district to provide a funding source for the operation and maintenance of public improvements and/or services associated with new development in that territory. The Developer shall satisfy this condition with one of the options outlined below.

a. Participate in a special election for maintenance/services and pay all associated costs of the election process and formation, if any. Financing may be structured through a Community Facilities District, Landscape and Lighting Maintenance District, or other financing structure as determined by the City; or

b. Establish an endowment fund to cover the future maintenance and/or service costs.

The Developer must notify the Special Districts Division at 951.413.3480 or at specialdistricts@moval.org when submitting the application for building permit issuance. If the first building permit is pulled prior to formation of the district, this condition will not apply. If the district has been or is in the process of being formed the Developer must inform the Special Districts Division of its selected financing option (a. or b. above). The option for participating in a special election requires 90 days to complete the special election process. This allows adequate time to be in compliance with the provisions of Article 13C of the California Constitution.

The financial option selected shall be in place prior to the issuance of the first certificate of occupancy for the project.

99. This project is conditioned to provide a funding source for the following special financing program(s):

a. Landscape Maintenance Services for median landscaping on Alessandro Blvd.

The Developer's responsibility is to provide a funding source for the capital improvements and the continued maintenance. The Developer shall satisfy this condition with one of the options below.

i. Participate in a special election (mail ballot proceeding) and pay all associated costs of the special election and formation, if any. Financing may be structured through a Community Services District zone, Community Facilities District, Landscape and Lighting Maintenance District, or other financing structure as determined by the City; or

ii. Establish a Property Owner's Association (POA) or Home Owner's Association (HOA) which will be responsible for any and all operation and maintenance costs

The Developer must notify the Special Districts Division at 951.413.3480 or at specialdistricts@moval.org of its selected financial option when submitting the application for building permit issuance. The option for participating in a special election requires approximately 90 days to complete the special election process. This allows adequate time to be in compliance with the provisions of Article 13C of the California Constitution.

The financial option selected shall be in place prior to the issuance of the first certificate of occupancy for the project and prior to acceptance of any improvements.

- 100. Commercial (BP) If Land Development, a Division of the Public Works Department. requires this project to supply a funding source necessary to provide for, but not limited to, stormwater utilities services for the continuous operation, remediation and/or replacement, monitoring, systems evaluations and enhancement of on-site facilities and performing annual inspections of the affected areas to ensure compliance with state mandated stormwater regulations, a funding source needs to be established. The Developer must notify the Special Districts Division at 951.413.3480 or at specialdistricts@moval.org of its selected financial option for the National Pollution Discharge Elimination System (NPDES) program when submitting the application for the first building permit issuance (see Land Development's related condition). Participating in a special election the process requires a 90 day period prior to the City's issuance of a building permit. This allows adequate time to be in compliance with the provisions of Article 13D of the California Constitution. (California Health and Safety Code Sections 5473 through 5473.8 (Ord. 708 Section 3.1, 2006) & City of Moreno Valley Municipal Code Title 3, Section 3.50.050.)
- 101. This project has been identified to be included in the formation of a Community Facilities District (Mello-Roos) for Public Safety services, including but not limited to Police, Fire Protection, Paramedic Services, Park Rangers, and Animal Control services. The property owner(s) shall not protest the formation; however, they retain the right to object to the rate and method of maximum special tax. In compliance with Proposition 218, the property owner shall agree to approve the mail ballot proceeding (special election) for either formation of the CFD or annexation into an

existing district. The Developer must notify the Special Districts Division at 951.413.3480 or at specialdistricts@moval.org when submitting the application for building permit issuance to determine the requirement for participation. If the first building permit is pulled prior to formation of the district, this condition will not apply. If the condition applies, the special election will require a minimum of 90 days prior to issuance of the first building permit. This allows adequate time to be in compliance with the provisions of Article 13C of the California Constitution. (California Government Code Section 53313 et. seq.)

102. Submit an acknowledgement from Edgemont Community Services District confirming they have accepted all street lights required to be installed by this project into its system for ongoing maintenance, have received a deposit and that the proceedings for the annexation or creation of a new Zone, by which the streetlights would be maintained, has been completed.

Transportation Engineering Division

- 103. Alessandro Boulevard is designated as a Divided Major Arterial (134'RW/110'CC) per City Standard Plan No. MVSI-101A-0. Any improvements undertaken by this project shall be consistent with the City's standards for this facility.
- 104. Day Street is designated as a Minor Arterial (88'RW/64'CC) per City Standard Plan No. MVSI-105A-0. Any improvements undertaken by this project shall be consistent with the City's standards for this facility. Communication conduits along project frontage shall be required per City Standard Plan No. MVSI-186-0.
- 105. Driveways shall conform to City of Moreno Valley Standard No. MVSI-112C-0 for commercial driveway approach. Access at the driveways shall be as follows:
 - Alessandro Boulevard driveway: Right-in and right-out access allowed.
 - Day Street driveway: Right-in and right-out access allowed.
- 106. Prior to final approval of any landscaping or monument sign plans, the project plans shall demonstrate that sight distance at the project driveways conforms to City Standard Plan No. MVSI-164A, B, C-0.
- 107. Prior to the final approval of the street improvement plans, a signing and striping plan shall be prepared per City of Moreno Valley Standard Plans Section 4 for Alessandro Boulevard and Day Street.
- 108. Prior to issuance of a Building Final or Certificate of Occupancy, all approved signing and striping shall be installed per current City Standards
- 109. Prior to issuance of encroachment permits for any works within the City of Moreno

Attachment: Conditions of Approval PEN16-0107 [Revision 3] (2903 : PEN16-0107)

Valley right-of-way, construction traffic control plans shall be prepared by a qualified, registered Civil or Traffic engineer and submitted for plan approval

PARKS & COMMUNITY SERVICES DEPARTMENT

110. PCS-GC-2 The parcel(s) associated with this project have been incorporated into the Moreno Valley Community Services District Zone A (Parks and Community Services). All assessable parcels therein shall be subject to the annual Zone 'A' charge for operations and capital improvements. Proof of such shall be supplied to Parks and Community Services upon Final Map and at Building Permits.



AIRPORT LAND USE COMMISSION RIVERSIDE COUNTY

RECEIVED NOV 1 8 2015 CITY OF MORENO VALLEY Planning Division

CHAIR Simon Housman Rancho Mirage VICE CHAIRMAN Rod Ballance Riverside COMMISSIONERS Arthur Butler Riverside	Mr. Gabriel Diaz, Associate Planner Planning Division City of Moreno Valley Community Development Department 14177 Frederick Street Moreno Valley CA 92553 RE: AIRPORT LAND USE COMMISSION (ALUC) DEVELOPMENT REVIEW					
John Lyon Riverside	Related File No.: PA14-0013 (Plot Plan) APN: 263-230-012; 263-230-013.					
Glen Holmes Hemet	Dear Mr. Diaz:					
Greg Pettis Cathedral City	On November 12, 2015, the Riverside County Airport Land Use Commission (ALUC) found City of Moreno Valley Case No. PA14-0013, a proposal to develop a 4,750 square foot retail					
Steve Manos Lake Elsinore	building for a donut/convenience store on two contiguous parcels with a combined net area of 0.61 acre located at the northwesterly corner of Alessandro Boulevard and Day Street, CONSISTENT with the 2014 March Air Reserve Base/Inland Port Airport Land Use					
STAFF	Compatibility Plan, subject to the following conditions:					
Director Ed Cooper	CONDITIONS:					
Russell Brady John Guerin Barbara Santos	1. Any new outdoor lighting installed shall be hooded or shielded to prevent either the spillage of lumens or reflection into the sky. Outdoor lighting shall be downward facing.					
County Administrative Center 4080 Lemon St., 14th Floor.	2. The following uses shall be prohibited:					
Riverside, CA 92501 (951) 955-5132	(a) Any use which would direct a steady light or flashing light of red, white, green, or amber colors associated with airport operations toward an aircraft engaged in an initial straight climb following takeoff or toward an aircraft engaged in a straight final approach toward a landing at an airport, other than an FAA-approved navigational signal light or visual approach slope indicator.					
	(b) Any use which would cause sunlight to be reflected towards an aircraft engaged in an initial straight climb following takeoff or towards an aircraft engaged in a straight final approach towards a landing at an airport.					
	(c) Any use which would generate smoke or water vapor or which would attract large concentrations of birds, or which may otherwise affect safe air navigation within the area. (Such uses include landscaping utilizing water features, aquaculture, production of cereal grains, sunflower, and row crops, composting operations, trash transfer stations that are open on one or more sides, recycling centers containing putrescible wastes, construction and demolition debris facilities, fly ash disposal, and incinerators.)					

Airport Land Use Commission Page 2 of 2

- (d) Any use which would generate electrical interference that may be detrimental to the operation of aircraft and/or aircraft instrumentation.
- (e) Children's schools, day care centers, libraries, hospitals, skilled nursing and care facilities, congregate care facilities, places of assembly, noise sensitive outdoor nonresidential uses and hazards to flight.
- 3. The attached notice shall be given to all prospective purchasers of the property and tenants of the building, and shall be recorded as a deed notice.
- 4. March Air Reserve Base must be notified of any land use having an electromagnetic radiation component to assess whether a potential conflict with Air Base radio communications could result. Sources of electromagnetic radiation include radio wave transmission in conjunction with remote equipment inclusive of irrigation controllers, access gates, etc.
- 5. No detention basins are depicted on the site plan. Any new detention basin(s) on the site (including bioswales) shall be designed so as to provide for a maximum 48-hour detention period following the conclusion of the storm event for the design storm (may be less, but not more), and to remain totally dry between rainfalls. Vegetation in and around the detention basin(s) that would provide food or cover for bird species that would be incompatible with airport operations shall not be utilized in project landscaping. Trees shall be spaced so as to prevent large expanses of contiguous canopy, when mature.

If you have any questions, please contact Russell Brady, Airport Land Use Commission Contract Planner, at (951) 955-0549, or John Guerin, Airport Land Use Commission Principal Planner, at (951) 955-0982.

Sincerely, RIVERSIDE COUNTY AIRPORT LAND USE COMMISSION

J. S. Kuonin

John J. G. Guerin, Principal Planner, for Edward C. Cooper, ALUC Director

Attachments: Notice of Airport in Vicinity

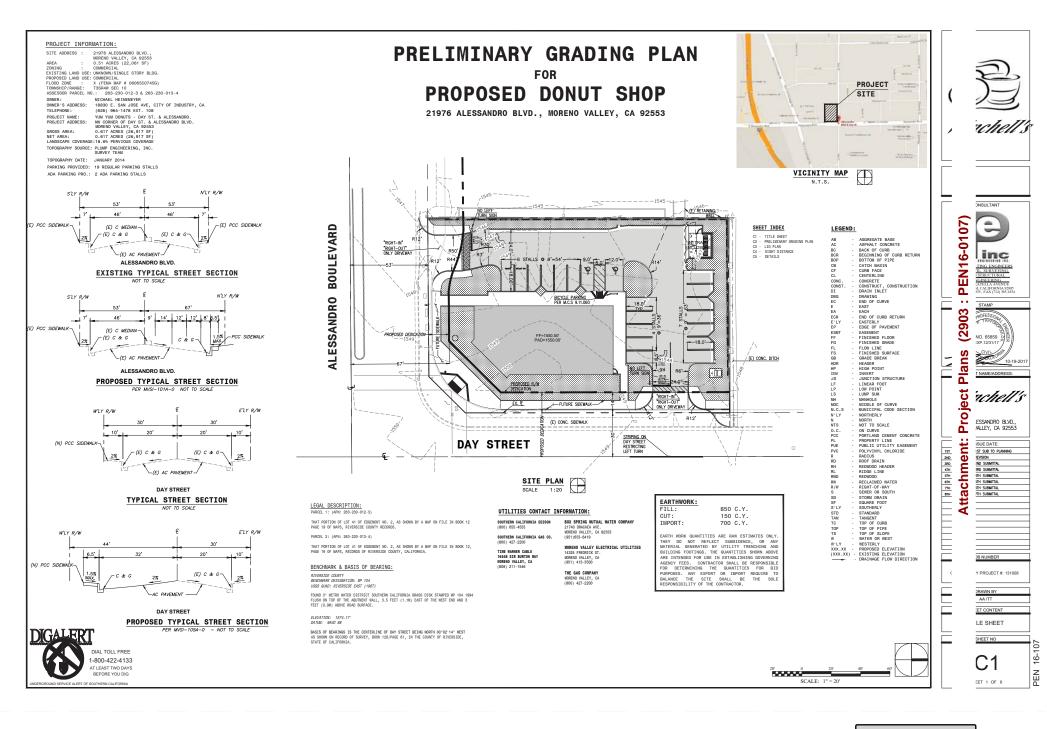
cc: Arche Del Rosario, Gary Wang & Associates (representative/payee) Michael Heinemeyer, Yum Yum Donuts (applicant/landowner) Denise Hauser or Sonya Pierce, March Air Reserve Base Gary Gosliga, Airport Manager, March Inland Port Airport Authority

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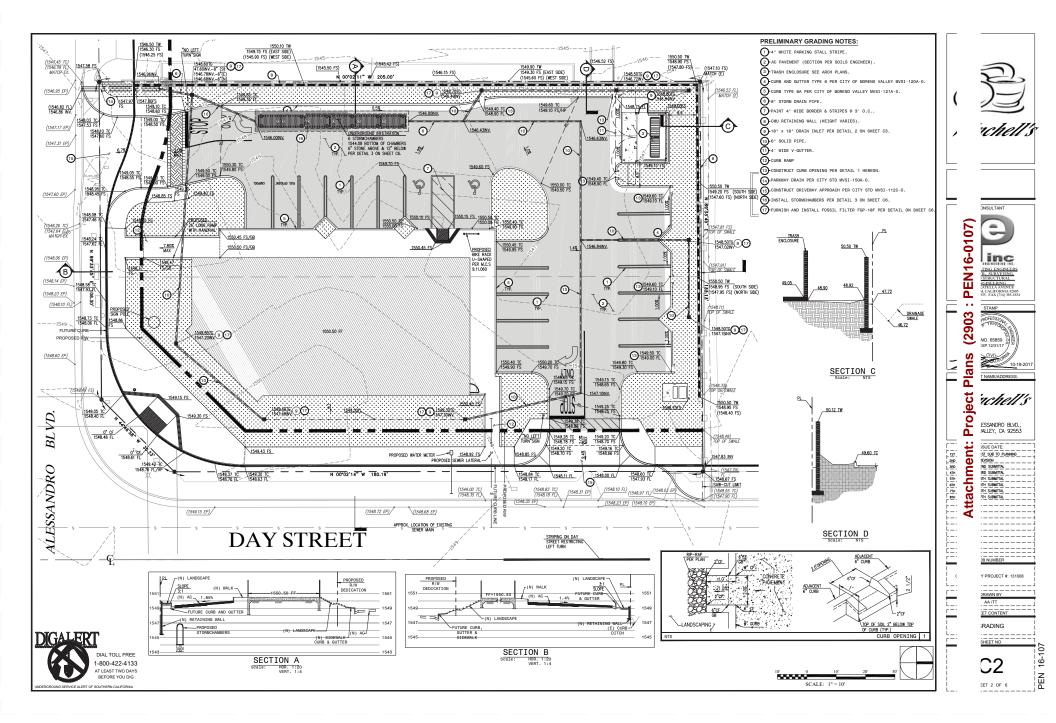
NOTICE OF AIRPORT IN

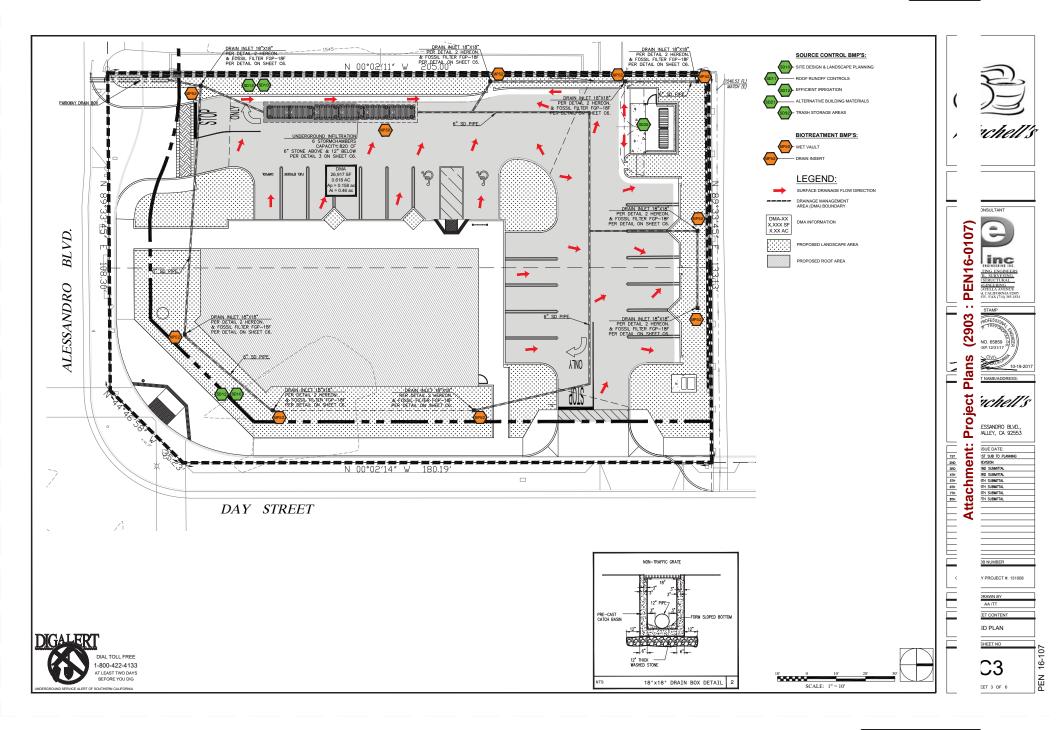
you. Business & Professions Code Section 11010 (b) annoyances can vary from person to person. You may associated with the property before you complete your This property is presently located in the vicinity of an airport, within what is known as an airport influence vibration, or odors). Individual sensitivities to those area. For that reason, the property may be subject to wish to consider what airport annoyances, if any, are some of the annoyances or inconveniences associated with proximity to airport operations (for example: noise, purchase and determine whether they are acceptable to (13)(A)

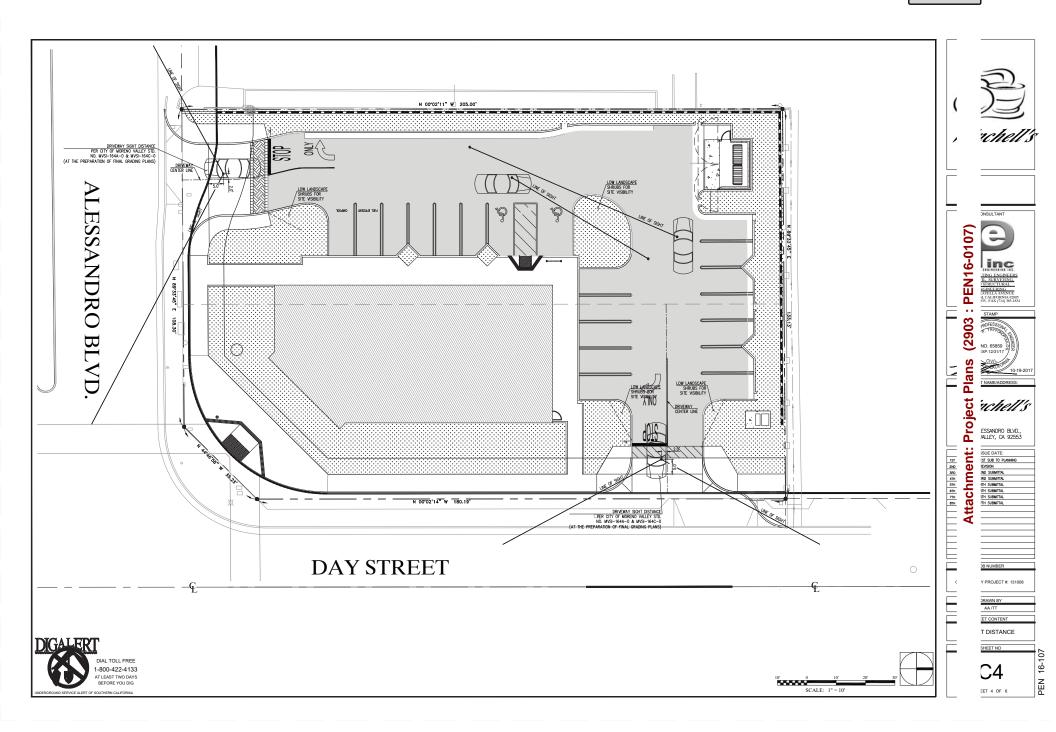
VICINITY MAP		SHEET INDEX	
	NEW CONSTRUCTION FREE STANDING CONVENIENCE STORE 21960 ALESSANDRO BOULEVARD MORENO VALLEY, CA 92553	ISSUE NO. 1 2 3 4 5 6 7 DATE AND REASON FOR ISSUE 1 2 3 4 5 6 7 DATE AND REASON FOR ISSUE 1 2 3 4 5 6 7 SHEET NO. DESCRIPTION	V Cheelu's
PROJECT SUMMARY	CONTACT INFORMATION INDEX:	G-112 ACCESSIBLE DETAILS	
ZONING / BUILDING DATA APPLICABLE CODES: ZONE: COMMERCIAL PARCE, NAMERE: 245–230–013 & 245–230–012 2016 CALFORM, BUILING: CODE 2016 CALFORM, RUMENC CODE	OWNER: ARCHITECT: STRUCTURAL: CIVIL ENGINEER: YUMYUM 2004/05 PZ CAVY BWG, AM SSOCIES TISOT TROTOCOLLO PZ DIVIT TROTOCOLLO PZ YUMYUM 2004/05 PZ CAVY BWG, AM SSOCIES TISOT TROTOCOLLO PZ DIVIT TROTOCOLLO PZ CONTACT: MICHAEL, HEINEMEYER MICHAEV PMC, CA 9724 PMC PMC PMC PH: 0526/ 304 W78 MICHAEV PMC, CA 9724 PMC PMC PMC PMC PH: 0526/ 304 W78 PMC (CG) 285-089 MARTIEV PMC, CA 9724 PMC	A-001 EXISTING SITE PLAN A-002 ENLARGED SITE PLAN A-003 ENLARGED SITE PLAN A-003 ENLARGED SITE PLAN A-004 ENLARGED EXIST AND A DETAILS, MISC, SITE DETAILS A-100 FLOR PLAN A-101 REFLECTED CELING PLAN A-102 ROOF PLAN A-102 ROOF PLAN A-104 REFLECTED CELING PLAN A-105	Le Center Dr., PH 8 CA 91754 S698 FXX.(266) 768-7101 rywang.com
NUMBER OF EXITS PROVIDED: 2 NUMBER OF EXITS PROVIDED: 2	JURISDICTIONAL AUTHORITIES:	A-200 EXTERIOR ELEVATIONS	(5303
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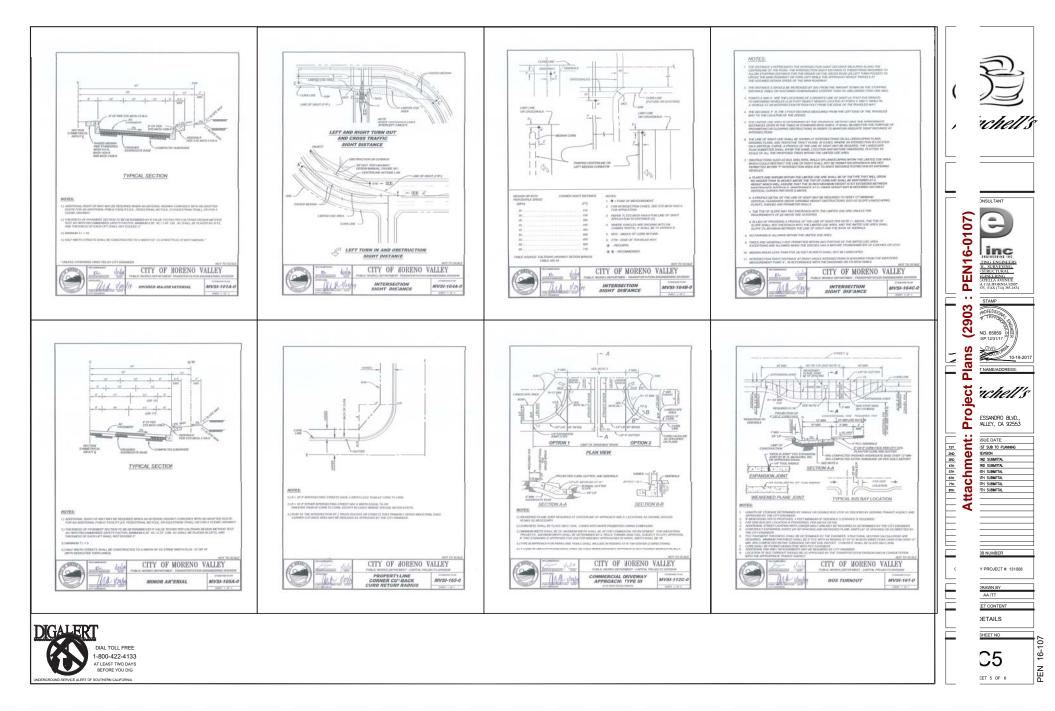


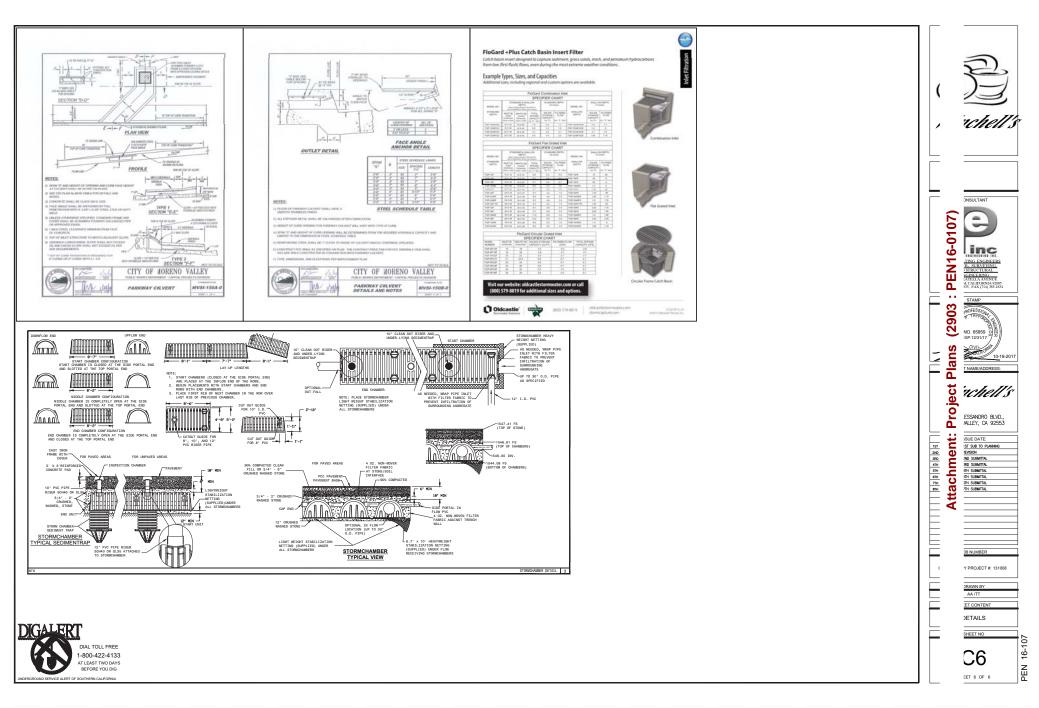
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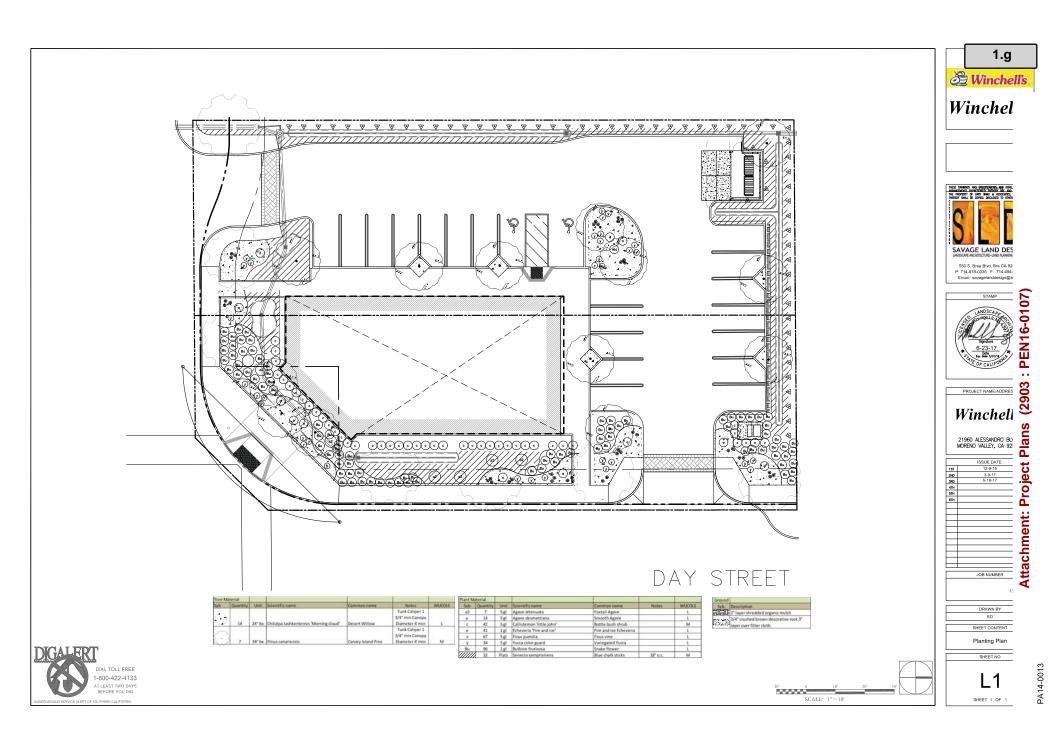












GENERAL CONSTRUCTION NOTES		1.g
 CODES ALL MORE SHALL CONFERNI TO ALL APPLICABLE FEDERAL STATE AND LOCAL CODES AND ORDINANCES. NOTHING SHOWN IN THESE DRAWINGS SHALL BE CONSTRUED AS PERMISSION TO VIOLATE ANY OF THE COVENING CODES. 	THE OWNER MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO, OR DEDUCTING FROM THE WORK. THE CONTRACT SUM BEING ADJUSTED ACCORDINGLY. 10. SCOPE	$\overline{\mathbf{S}}$
2. PERMITS	ALL TRADES SHALL FURNISH ALL LABOR, EQUIPMENT, MATERIALS AND PERFORM ALL WORK NECESSARY, REASONABLY INFERRED OR REQUIRED BY ANY CODE WITH JURISDICTION, TO COMPLET THEIR SCOPE OF WORK FOR COMPLETE AND PROPERLY FINISHED JOB.	A.
A. THE OWNER WILL PAY FOR THE BUILDING PERMIT AND ANY SINER, WITER OR OTHER LOCAL UNRIGOTIONAL FESS OF ASSISSIENTS. THE CONTRICTOR SWILL BE RESPONSIBLE FOR ALL COORDINATION WITH HIS SUBCONTRACTORS WITH REGARD TO FERMITS, FEES AND TEMPORARY AS WELL AS PERMINENT UNITIES. THE SUBCONTRACTORS SHILL PAY SUBCONTRACTORS SUBJECT TO PERMINENT UNITIES. THE SUBCONTRACTORS SHILL PAY SUBJECT TO THEIR PORTION OF THE JOB SUPERINTENENT BEFORE STRATING WORK, EACH SUBCONTRACTORS SHULL PAY FOR ALL FEES AND FERMITS REQUERE FOR THEIR PORTION OF THE WORK.	11. CUTING AND PATCHING ALL TRADES SHALL DO THEIR OWN CUTING, FITING, PATCHING, ETC. TO MAKE THE SEVERAL PARTS COME TOGETHER PROPERLY AND FIT IT TO RECEIVE OR BE RECEIVED BY WORK OF OTHER TRADES	$\bigcirc =$
B. THE PLAN CHECK FEE SHALL BE SECURED AND PAID FOR BY THE OWNER. ALL OTHER PERMITS SHALL BE TAKEN OUT AND PAID FOR BY THE SUBCONTRACTOR DIRECTLY RESPONSIBLE.	 CLEANING THE CONTRACTOR SHALL CLEAN-UP, REMOVE AND DISPOSE IN A LEGAL MANNER ALL DEBRIS AND WASTLE ATTRIBUTED TO THE JOB. 	Winchel
C. THE CONTRACTOR SHALL OBTAIN PERMITS FROM THE LOCAL STATE DIVISION OF INDUSTRIAL SAFETY AS REQUIRED AND SHALL COMPLY WITH ALL REQUIREMENTS OF THE DIVISION.	13. INSULATION	
3. CONSTRUCTION DOCUMENTS	A. ROOF INSULATION SHALL BE RATED FIBERGLASS BATTS BETWEEN BOTTOM CHORDS OF TRUSSES OR BETWEEN ROOF JOISTS PER TITLE 24 REQUIREMENTS.	
D. THE INTERTION OF THESE DOCUMENTS IS TO INCLUE ALL LARCE WATERNES, SERVICES, EQUIPMENT AND TRANSPORTION NECESSAY TO BE COUNCELT AND PROFER EXCUTION OF THE WORK INDUCATED ON THE DRAWINGS OR REASONABLY INTERRED THESE FROM. THE ARCHITECT WILL IN OWING RESPONSIBLE OR HOW THE FEED WORK IS PERFORMED. SAFETY IN OR ABOUT THE UGB SITE WETHODS OF PERFORMANCE OR THEALINES IN THE PERFORMANCE OF THE WORK IF DISCREMENCY COSTS BETTEENE THAS OF DIFFERENT SECTION OF ABOUT THE UGB SITE WETHODS OF PERFORMANCE OR THEALINES IN THE PERFORMANCE OF THE WORK IF DISCREMENCY DISTS BETTEENE THAS OF DIFFERENT SECTION OF ABOUT THE WORK.	 RATED REPERCUSS INSULATION LICEWSE BE PROVIDED AT THE EXTERIOR STUD WALLS BETWEEN STUDS PER THLE 24 REQUIREMENTS. RETER TO EVEROY CONSERVATION NOTES AND MANDATORY MEASURES FOR ADDITIONAL INSULATION NOTES AND REQUIREMENTS. 	THE LEMANCE AND FEDERALDING AND REAL INFERTIONAL AND FEDERALDING AND REAL INFERTIONAL CONT. BOARD AND AND AND HEAD TO AND AND AND AND AND AND AND HEAD AND
4. BIDS E. BIDDERS PRIOR TO SUBMITTAL OF BIDS SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THE ARCHITECTS' PLANS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, OMISSION, CLARFICATION, OF ANY INFORMATION NECESSARY FOR COMPLETION OF THEIR SCOPE OF WORK.		SHALL HAVE PREZENCE OVER SCALE CONTRUCTORS SHALL LEVELY AND BE REFORMS UNDERSONG AND CONTRICHE ON THE JOB, AND MUST BE KONTED OF ANY WARKNOWS FROM TH AND CONTRIMON STORM BY THESE DRAWINGS, SHO BE SLAMMED TO THIS OFFICE FOR REVEN BEFOR WITH THE FAREACTOR.
F. ALL TRACES SHALL FURNESH ALL LARGE, EQUIPMENT, MATERNALS AND SERVICES REQUIRED TO PERFORM ALL WORK NECESSARY, MIDACINE ON REASONABLY, INFERED OR REQUIRED BY ANY APPLICABLE CODE TO COMPLETE THEIR SCOPE OF WORK FOR A COMPLETE AND PROPERTY, FINISHED JOB.		ARCHITECT
C. CONTRACTORS BROR TO BROND SMUL QUARATE THAT ALL OTHER SUB-BIDDEES OR SUB CONTRACTORS SMUL BE ORNER COMPLETE LISTE OF FAMS TO INSIDIE THAT THAT HAVE NOLLUBED ALL TEBS NECESSARY TO COMPLETE THEIR WORK, ANY TED WISSED BY THESE SUBCONTRACTORS IN THEIR BUS SMULL BEASTREED BY THE CONFIL CONTRACTOR AT HER/HIS OWN EXPENSE AND IN NO WAY WILL AFFECT ANY ADDITIONAL COST OVER AND ABOVE THE FINAL BID.		GARY W. & ASSOCIATES, I 1255 Corporate Center Dr., PH 8 Monterey Park, CA 91754 TEL: (629) 288-6898 FAX: (628)
H. ALL TRADES SHALL PROVIDE BIDS ACCORDING TO THE PLANS AND SPECIFICATIONS. ANY ALTERNATE SHALL BE SUBMITTED TO THE OWNER (IN WRITING) FOR APPROVAL PRIOR TO ACCEPTINGE OF BID.		http://www.garywang.com
5. CONTRACTOR		STAMP
A. PROR TO COMMENSING, THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS AND VERIFY CONDITIONS AT THE STE. ANY DISGREPANCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. CONTRACTOR SHALL VERIFY WITH THE PROPER UTILITY COMPARY THE LOCATIONS OF ALL EXISTING BELOW GRADE UTILITIES AND THEIR SERVICE CONNECTION PRIOR TO THE COMMENCEMENT OF WORK.		
B. NO CONTRACTOR, SUBCONTRACTOR, OR SUBCONTRACTOR IS TO START HIS WORK UNTIL HE/SHE WAS FIRST EXAMINED THE EXISTING CONDITIONS. IF FOR ANY REASON A PERFECT JOB IS IMPOSSIBLE IT SHALL BE IMMEDIATELY REPORTED TO THE PROJECT SUPERINTENDENT AND ARCHITECT BEFORE PROCEEDING WITH THE JOB.	GENERAL NOTES (CONT.)	
C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, FOR SELECTING FABRICATION PROCESSES, FOR TECHNIQUES OF ASSEMBLY, FOR COORDINATION OF INS WORK WITH THAT OF OTHER TRACES AND FOR PERFORMENCIAL WORK IN A SVER AND SIMPLIFYINGTOCHTMANER.	 ALL ENTRANCES AND ALL EXTERIOR GROUND FLOOR EXIT DOORS TO BUILDING AND FACILITIES SHALL BE MADE ACCESSIBLE. 	PROJECT NAME/ADDRES
L. CONTRACTOR TO VERIFY AND ENSURE AVAILABLE. AND INTERACTIVE DELIVERY OF SPECIFIED OR SUBSTITUTED PRODUCTS PRIOR TO CONSTRUCTION, HE SHALL NOTIFY ARCHITECT OF POSSIBLE CHARGES TO CONSTRUCTION DOCUMENTS OR ANY CONSTRUCTION DELAY DUE TO NON AVAILABILITY OR LATE DELIVERY OF MAREAUS. ARCHITECT IS NOT RESPONSIBLE FOR NON AVAILABILITY OR LATE DELIVERY OF PRODUCTS DURING CONSTRUCTION.	 EXIT DOORS SHALL BE OPENALE FROM THE INSDE WITHOUT THE USE OF A KEY OR ANY SPECIAL MONEDED OR EFFORT. MANLALLY OPERATE DEDE OR SURFACE MONTED FLUSH BOITS AND SURFACE BOITS ARE PROVINEED. WHEN EXIT DOORS ARE USED IN PRIVES AND APPROVED AUTOMATIC FLUSH BOITS ARE USED. THE DOOR LEAF HAVING THE AUTOMATIC FLUSH BOITS SHALL HAVE NO DOOR REQUIRE MORE THAN ONE OPERATION. 	Winchell
E. ANY CONTRACTOR PRIOR TO INSTALLATION OR PROCUREMENT OF MATERIALS SHALL NOTFY ARCHITECT OF PROBLEMS IF ANY. FAILURE TO DO SO SHALL MEAN THAT ALL NECESSARY CORRECTIVE MEASURE, DOCUMENTATION, ETC. SHALL BE DONE BY THAT CONTRACTOR AT HIS ONN EXPENSE AND TIME.	REQUIRE MORE THAN GAE OPERATION. THE UNCLOSED OF ANY LOW STADLE NOT REQUIRE MORE THAN GAE OPERATION. 4. LATOHIC AND LOCKING DORES THAT ARE HAND ACTIVATED AND MHCH ARE IN A PATH OF THIS LOCAL LATIVATION BARS, THE AND ACTIVATED AND MHCH ARE SAFE WITHOUT REQUIRING THE ABILITY TO GREAF THE OPENNE MARDWARE. LOCKED EXIT DORES SHALL OPERATE AS ABOVE IN CREASES DIRECTOR.	21960 ALESSANDRO BL/ MORENO VALLEY, CA 92:
F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE BUILDING LINES AND LEVELS. THE CONTRACTOR SHALL COMPARE CAREFULLY THE LINES AND LEVELS SHOWN ON THE DRAWINGS WITH LEVERS FOR THE CONSTRUCTION OF THE WORK AND SHALL CALL THE ARCHITECT'S ATTENTION TO ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.	MITHOUT REQUIRENCE THE ASSUMED TO REAL THE OPENING HARDWARE. LOCKED EXT DOORS SHALL OPERATE AS ABOVE IN EXRESS DIRECTION. 5. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE THE FLOOR.	ISSUE DATE: 15T 040114 - 15T SUB TO PLANN 2ND 090914 - REVISION 3RD 100314 - 2ND SUBMITTAL
WORK. G. PROVIDE ALL NECESSARY BACKING AND FRAMING FOR ALL WALL MOUNTED ITEMS, LIGHT FIXTURES AND ALL OTHER ITEMS REQUIRED SAME. 6. LIABILITIES	6. EVERY DOORWAY LOCATED WITHIN AN ACCESSIBLE PATH OF TRIVEL SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3 FEET IN WIDTH AND NOT LESS THAN 6"-6" IN HEGHT. WHEN INSTALLED, EXIT DOORS SHALL BE CAPABLE OF OPENING SO THAT THE CLAR WIDTH OF THE EXIT IS NOT LESS THAN 32".	4TH 100116 - 3RD SUBMITTAL 5TH 042117 - 4TH SUBMITTAL 6TH 061617 - 5TH SUBMITTAL 7TH 083017 - 6TH SUBMITTAL
6. UNDITIES A. THE DESIGN PROFESSIONAL (OP) SMALL CONSULT WITH THE CLIENT REGARDING THE PROBABLE SERVICES REQUIRED TO COMPLY WITH AMERICAN DISABILITIES ACT (ADA), THE DP IS NOT AN ATTORNEY NOR SHOULD THE DP'S REDUERING AN OPINION OF PROBABLE SERVICES REQUIREMENTS BE CONSIDERED EDUINALENT TO A LEGAL INTERPRETATION OF ADA.	7. THERE SHALL BE A LEVEL AND CLEAR FLOOR OR LANDING ON EACH SIDE OF A DOOR. THE LEVEL AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60° AND THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING OF 48° AS MEASURED AT RIGHT ANGLE TO THE FLANE OF THE DOOR IN THE CLOSED POSITION.	8TH 092917 - 8TH SUBMITTAL
THE DP'S OPINION WILL BE BASED SOLELY ON HIS OR HER OWN EXPERIENCE AND KNOWLEDGE. THIS REQUIRES THE DP TO MAKE A CERTAIN NUMBER OF ASSUMPTIONS AS TO	8. THE FLOOR OR LANDING SHALL BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY.	
THE THES OF DIABATILIES CORRELLY AT ANY THE DEVICE OF ACLESS THAT IS THEN, IT ACCOUNTS AND WHAT CONSTITUET REPORT ACCESSES AND SUBJECT OWNERTHET ACCOUNTS AND WHAT CONSTITUET REPORT ACCESSES AND SUBJECT OWNERTHET ACCOUNTS OF THIS OF HER OFMINION AS TO FULL COMPLIANCE AND IN RECOONTING OF THAT FACT, THE CUENT WAYES ANY CAMA ADARST THE OP RELATIVE TO THE ADEQUACY OF THE OPINION TO FULLY COMPLY WITH ADA REQUIREMENTS.	9. DOORS SHALL HAR A SWOOTH UNINTERRUPTED SUFFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAR FOOTEST WITHOUT CREATING A TAPP OR HAZARODUS CONDITON WHERE NARROW FRAME DOORS ARE USED, A 10 ⁵ HIGH SMOOTH PAREL SHALL BE INSTALLED ON THE PUSH SPEC OF THE DOOR WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.	JOB NUMBER
B. THE ARCHITECT WHO SIGN THESE PLANS, SPECIFICATIONS AND INSTRUMENTS OF SERVICE SHALL NOT BE HELD RESPONSIBLE FOR DAMAGES RESULTING FROM CHANGES OF USES NOT AUTIORIZED OR APPROVED BY THE ARCHITECT THE SIGNING OF THESE DOCUMENTS WILL NOT MAPOSE A LEGAL DUTY OR RESPONSIBILITY TO OBSERVE THE CONSTRUCTION OF THE FREE WORKS SUBJECT OT DIRESE DOCUMENTS.	10. RECESSED DOOR MATS SHALL BE ADEQUATELY ANCHORED TO PREVENT INTERFERENCE WITH WHEELCHAR TRAFFIC. 11. MAXIMUM EFFORT TO OPERATED DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND A DEVIDEOR FOR DUTIEND POORS STALL HOIS OF REALL STERIES FORM WHEEL AT	ARCH PROJECT #: 14-074
C. ALL BRACING NECESSARY FOR CONSTRUCTION PURPOSES BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.	11. MUNUMU EFFORT TO OFFERTED DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTENDE DOORS AND 5 POUNDS FOR INTERDED DOORS SUCH VERVIE OF DULLETOTE BENA APPLIED AT ROOM AND EXCEPT TO A ROOM AND	DRAWN BY AD,GC,& CL
D. THE DESIGN ADDUACY AND SAFETY OF THE ERECTION BRUCHS, SHORING, TEMPORARY SUPPORTS, FC, SHALL BER THE SOLE RESPONSIBILY OF THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRAETURE PRIOR TO THE APPLICATION OF ALL STEAM WALL, ROOF ROUF TOOL TO APPLICATION OF THE ATTREPART THE APPLICATION OF THE ATOREMENTORED INTERNAL, DOSENATION VISITS TO THE STREET THE APPLICATION OF THE ATOREMENTORED MATERNAL, DOSENATION VISITS TO THE STRE BY THE APPLICATION OF THE ATOREMENTORED MATERNAL, DOSENATION VISITS TO THE STRE BY THE APPLICATION OF THE ATOREMENTORED MATERNAL, DOSENATION VISITS TO THE STRE BY THE APPLICATION OF THE ATOREMENTORED MATERNAL, DOSENATION VISITS TO THE STRE BY THE APPLICATION OF THE ATOREMENTORED MATERNAL, DOSENATION VISITS TO THE STRE BY THE APPLICATION OF THE ATOREMENTORED MATERNAL, DOSENATION VISITS TO THE STRE BY THE APPLICATION OF THE ATOREMENTORED MATERNAL, DOSENATION VISITS TO THE STRE BY THE APPLICATION OF THE ATOREMENTORED MATERNAL, DOSENATION VISITS TO THE STRE BY THE APPLICATION OF THE ATOREMENTORED MATERNAL, DOSENATION VISITS TO THE STRE BY THE APPLICATION OF THE ATOREMENTORED MATERNAL, DOSENATION VISITS TO THE STRE BY THE APPLICATION OF THE ATOREMENTORED MATERNAL, DOSENATION VISITS TO THE STRE BY THE APPLICATION OF THE ATOREMENTORED MATERNAL, DOSENATION VISITS TO THE STRE BY THE APPLICATION OF THE ATOREMENTORED MATERNAL, DOSENATION VISITS TO THE STRE BY THE APPLICATION OF THE ATOREMENTORED MATERNAL, DOSENATION VISITS TO THE STRE BY THE APPLICATION OF THE ATOREMENTORED MATERNAL DOSENATION VISITS TO THE STRE BY THE APPLICATION OF THE ATORE THEN.	AUMINISHMAINE, AUTHORITY, NOT TO EXCEED 15 POUNDS.	SHEET CONTENT GENERAL NOTES
7. INTENTION		SHEET NO
THE INTENTION OF THE DOCUMENTS IS TO INCLUDE ALL LABOR, MATERIALS / EQUIPMENT AND TRANSPORTATION NECESSARY FOR COMPLETE AND PROPER EXECUTION OF THE WORK.		G-101
 OUBSTITUTION NO SUBSTITUTION SHALL BE MADE WITHOUT THE OWNERS APPROVAL. CHANGES 		0-10
	1	L

GENERAL NOTES				1.g
 THE TERM 'CONTRACTOR' AS USED HERE IN AND ON THE DRAWINGS SHALL ALSO BE APPLICABLE TO EACH SUBCONTRACTOR AS REQUIREMENTS PERTAIN TO HIS TRADE. 	MUST VERIFY ALL EQUIPMENT REQUIREMENTS WITH THE EQUIPMENT SUPPLIER BEFORE ANY	'ANSUL' FIRE SUPPRESSION SYSTEM.		
	WORK IS DONE. 34. LOCATION OF ALL MECHANICAL ROOF OPENINGS SHALL BE DETERMINED AND VERIFIED BY THE	22. TENANT MUST MAKE A SEPARATE APPLICATION AND PAY A PLAN CHECK FEE FOR ANY AND ALL STORE SIGNS TO THE BUILDING AND SAFELY DEPARTMENT.		5
2. THE CONTRACTOR SHALL VERIFY ALL DURINOUS TO FLOOR PLANE AND ELEVATIONS PRORE TO COMMENSIONED 6 ANY WORK THE GENERAL CONTRACTOR SHALL NOTEY THE ARCHITECT AND OWNER IMMEDIATELY, IN WRITING, OF ALL AND ANY DISCREPANCIES, OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEVATIONS OF THE WARKING DRAWING SHAYOR SPECIFICATIONS AND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH ANY WORK INVOLVED.	MECHANICAL CONTRACTOR. EXISTING BUILDING AND STRUCTURES	23. NO HAZARDOUS WASTE TO BE STORED ON THIS SITE.		γ'
BELWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS AND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH ANY WORK INVOLVED.	WHEN A RENOVATION, STRUCTURAL REPAIR, ALTERATION, OR ADDITION TO AN EXISTING BUILDING OCCURE, COMPLIANCE INCLUDES THE FOLLOWING:	24. THE CONTRACTOR SHALL PROVIDE THE BUILDING OWNER, MANAGERIAL AND ORIGINAL OCCUPANTS THE FOLLOWING:		
 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS TO SITE PLAN AND SITE CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT AND 	A. THE AREA OF RENOVATION, STRUCTURAL REPAIR, ALTERATION, OR ADDITION MUST FULLY	A. A LIST OF THE HEATING, COOLING, WATER HEATING AND LIGHTING SYSTEMS AND FEATURES, MATERILS, COMPORENTS, AND MECHANICAL DEVICES, CONSERVATION OF SOLAR DEVICES INSTALLED IN THE BUILDING AND INSTRUCTION ON HOW TO USE EFFICIENTLY.	C. THE NUMBER OF COATS IS TO BE THREE MINIMUM. ADDITIONAL COATS SHALL BE APPLIED AT NO ADDITIONAL COST IF NECESSARY TO COMPLETELY HIDE BASE MATERIALS, PRODUCE	()-
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS TO SITE PLAN AND SITE CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT AND OWNER IMMEDIELY, IN WITHIN, OF ALL AND AN DISCREPANCES, OWISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS AND SHALL BE BROUGHT TO THE ATTINTION OF THE RECHITECT BETWEEN RECOVERING THAT WORK.	COMPLY. B. A PRIMARY ENTRANCE TO THE BUILDING OR FACILITY AND THE PRIMARY PATH OF TRAVEL TO THE SPECIFIC AREA OF ALTERATION, STRUCTURAL REPAR, OR ADDITION MUST FULLY COMPLY.	INSTALLED IN THE BUILDING AND INSTRUCTION ON HOW TO USE EFFICIENTLY. B. A REQUIRED ROUTINE MAINTENANCE ACTION SHALL BE CLEARLY STATED AND INCORPORATED ON A READLY ACCESSIBLE LABLE. THE LABEL THE VARE IMAY BE LIMITED TO IDENTIFYING THE MAINTENANCE	UNIFORM COLOR, AND PROVIDE SATISFACTORY FINISH RESULTS.	
INVOLVED. 4. ALL WRITTEN DIMENSIONS SHALL HAVE PREFERENCE OVER SCALED DIMENSIONS.		MANUAL	D. APPLICATION AND SURFACE REPRARTION SHALL BE DONE ACCORDING TO MANUFACTURER'S WRITTEN SPECIFICATIONS AND APPLICATION INSTRUCTIONS ALL PRIVES SHALL BE APPLIED EVENLY AND BE FREE OF RUNS, SAGS, SKIPS. CRAWLS OR DEFECTS.	Winchel
 ALL WRITTEN DIMENSIONS SHALL HAVE PREFERENCE OVER SCALES SHOWN ON ALL PLANS, DRAWINGS AND DETAILS. 	C. SANTARY FACILIES, AND, WHEN PROVIDED, DRINKING FOUNTAINS AND PUBLIC TELEPHONES, SERVING THE AREA OF RENOVATION, STRUCTURAL REPAIR, ALTERATION OR ADDITION MUST FULLY COMPLY.	C. A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEM IS DESIGNED TO PROVIDE TO EACH AREA.	E. THE CONTRACTOR SHALL PROTECT HIS OWN WORK, AND ADJACENT WORK AND MATERIALS, WITH SUITABLE COVERINGS OR MASKINGS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR CLEANING THE AREA OF HIS WORK AS WELL AS REMOVAL OF EXCESS MATERIAL (EITHER FROM	
6. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS, WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON PROJECT.	 BUILDINGS THAT HAVE BEEN REMODELED TO PROVIDE SPECIFIC SANITARY FACILITIES AND/OR ELEVATIONS FOR PUBLIC USE THAT CONFORM TO ADA SHALL HAVE THIS INFORMATION POSTED IN THE BUILDING LOBBY, PREFERABLY AS PART OF THE BUILDING DIRECTORY. 	25. EACH HVAC SYSTEM SHALL BE EQUIPPED WITH AT LEAST ONE AUTOMATIC SERVICE TO SETBACK OF SHUTGFF THE SYSTEM DURING PERIODS OF NON-USE OR ALTERNATE USE OF THE BUILDING SPACES OR ZONES SERVED BY THE SYSTEM. EXCEPTION SMALL JURINARY HVAC SYSTEMS WHOSE	ADJACENT SURFACES OR EXTRA MATERIALS).	
WORK ON PROJECT. 7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES.	SUMMARY OF WORK/RESPONSIBILITIES/COORDINATION	INPUT POWER IS LESS THAN 500 WATTS MAY HAVE READILY ACCESSIBLE MANUAL ON/OFF SWITCHING INSTEAD.	OTHER FOREIGN MATERIAL 6. VERIFY FINISHES ON SIGNAGE WITH ARCHITECT. ALL METAL PAINT TO BE AUTO BODY PAINT.	THESE DRAWINGS AND SPECIFICATIONS AND DEAS, advancements apparements travers are and
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, WHETHER OF NOT THEY ARE SHOWN ON THE DRAWINGS, AND TO PROTECT THE FROM DAMAGE. THE CONTRACTOR SHALL BEAR ANY AND ALL EXPENSES FOR REPAR OR REPLACEMENT OF UTILITIES OF OTHER PROPERTY DAMAGED BY THEIR OPERATIONS IN PERFORMANCE OF THE WORK.	 THIS PROJECT SHALL CONFORM TO THE CURRENT EDITIONS OF THE LOCAL BUILDING CODE AND CITY AND COUNTY LAWS AND ORDINANCES. 	26. AUTOMATIC TEMPERATURE CONTROLS FOR HVAC SYSTEMS SHALL COMPLY WITH THE FOLLOWING: A. EACH ZONE SHALL BE PROVIDED WITH AT LEAST ONE AUTOMATIC TEMPERATURE CONTROL FOR	CABINET WORK	THE PROPERTY OF CARY WANG & ASSOCIATES: THEREOF SHALL BE COPIED, DISCLOSED TO OTHER COMPECTION WITH ANY WORK OR PROJECT OTH
8. THE CONTRACTOR SHALL TAKE ANY NECESSARY PRECAUTIONS TO LOCATE AND PROTECT ANY	 CONSTRUCTION SHALL CONFORM WITH ALL APPLICABLE BUILDING CODES AND ALL OTHER APPLICABLE CORDINANCES, REGULTIONS, DRIVINGS, AND CENTRAL NOTES CONTRANED HEREIN, CENERAL CONTRACTOR IS RESPONSIBLE FOR READING THE TENANT CATERIA BOOK PRORE TO BEGINING THE FORCIET. THE BOOK INCLUDES INFORMATION AND DETAILS CONTICAL TO THE JOB. 	THAT ZONE.	 MAKE ALL FINISHED WORK PER THE DETAILED DRAWINGS AND GRADE REQUIREMENTS OF THE WOODWORK INSTITUTE, 'MANUAL OR MILLWORK' (W.I.C.) 	SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN DEVELOPED WITHOUT THE WRITTEN CONSENT OF ASSOCIATES. VISUAL CONTACT WITH THESE I SPECIATIONS SHALL CONSTITUTE CONCULSIVE
 THE CONTRACTOR SHALL TAKE ANY NECESSARY PRECAUTIONS TO LOCATE AND PROTECT MY UNDERGROUND OR CONCEALED CONDUIT, PLUMBING OR OTHER UTILITIES PRIOR TO DEMOLITION EXCAVATION. 	GENERAL CONTRACTOR IS RESPONSIBLE FOR READING THE TEMANT CRITERIA BOOK PRIOR TO BEGINNING THE PROJECT. THE BOOK INCLUDES INFORMATION AND DETAILS CRITICAL TO THE JOB.	B. MAINTAIN SPACE TEMPERATURE SET POINTS FROM 55'F TO 85'F. C. OPERATE ZONE HEATING AND COOLING IN SEQUENCE IF BOTH ARE PROVIDED.	2. TAKE SUCH FIELD MEASUREMENTS AS MAY BE REQUIRED.	THESE RESTRICTIONS. MRITTEN DIMENSIONS ON TH SHALL HAVE PRECEDENCE OVER SCALD CONTRACTORS SHALL VERY, AND EE RESPONS DIMENSIONS AND CONTENTS ON THE VIE AND
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY WATER, POWER, AND TOILET FACILITIES AS REQUIRED. 	3. THE DRAWINGS ARE NOT INTENDED TO SHOW METHOD AND MANNER OF ACCOMPLISHMENT WORK. THE INTENTION OF THESE DOCUMENTS IS ONLY TO SHOW MATERIALS, EQUIPMENT, AND THER PINISHED CONDITION FOR THE PROPER COMPLETION OF THE WORK. MIXOR MODIFICATIONS MAY BE REQUIRED TO SUIT THE JOB DIMENSIONS OR CONDITIONS AND SHALL BE INCLUDED AS PART OF OF THE WORK.	D. PROVIDE A TEMPERATURE RANGE ADJUSTABLE UP TO 10 DEGREES BETWEEN FULL HEATING AND FULL COOLING TO THE ZONE.	 ALL FINISHED WOOD AND CABINET MATERIALS SHALL HAVE MOISTURE CONTENT NOT EXCEEDING 12 % BY WEIGHT. 	Техн. Вывшей он учествотой или сос. налисского полноватой техник и он налисского полноватой техник и он налисского полноватой техник и налисского полновато и они сос. налисского полновато и от сос. налисского п
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND AVAILABILITY OF ALL OFF-SITE UTILITY LINES.		27. AIR HANDLING DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED AND INSULATED.	 PLASTIC LAMINATE FINISHING SHALL CONFORM TO REQUIREMENTS OF ARCHITECTURAL WOODWORK INSTITUTE. 'QUALITY STANDARDS' FOR 'CUSTOM' GRADE AND NOTES CONTAINED HEREIN. 	ARCHITECT
11. AREAS DESIGNATED FOR OFF-STREET PARKING AND LOADING, REQUIRED ACCESS DRIVES AND MANEUVERING AREAS SHALL NOT BE USED FOR THE OUTDOOR STORAGE OF MATERIALS.	 THESE CONTRACT DOCUMENTS ARE INTENDED TO BE COMPLIMENTARY, WORK REQUIRED TO BE DONE BY ONE DOCUMENT AND NOT BY OTHERS SHALL BE DONE AS IF REQUIRED BY ALL. 	28. MECHANICAL VENTILATION SUPPLY AND EXHAUST SYSTEMS WITH MORE THAN 5000 CFM OF AIR SHALL BE PROVIDED WITH AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SHUTDOWN.	 INSTALLATION INSTALLATION INSTALL ATION EVEN AND PLUMB WITH TIGHT JOINTS BETWEEN ANY MULTIPLE UNITS. SCRIBE TO WALL AND OTHER SURPACES AS REQUIRED. ADJUST ALL DRAWERS, DOORS AND MOVABLE PARTS TO OPERATE SALV AND SURDOILY. WITHOUT INDIANG. 	
12. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE LOCAL BUILDING CODE AS ADOPTED AND AMENDED BY LOCAL GOVERNING AUTHORITIES.	5. WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION OF THIS PROJECT.	29. GRAVITY VENTILATION SYSTEM SHALL BE PROVIDED WITH AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SHUTDOWN.	WALL ARD UTHER SURFACES AS RELUTED AUDUST ALL DRAWERS, DOURS AND MUVABLE PARTS TO OPERATE EASILY AND SMOOTHLY WITHOUT BINDING. 6. ALL DRAWERS TO BE FULL EXTENSION SIDES WITH A 75 LBS, LOAD CAPACITY,	GARY W. & ASSOCIATES, I
13. THIS STRUCTURE IS DESIGNED AS A STABLE UNIT AFTER ALL COMPONENTS ARE IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY BRACKING AS REQUIRED TO ASSURE THE VERTICAL AND LATERAL STABLITY OF THE ENTRECTIVE OF PORTION THEREOF	 IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTION, OR DETAILS ON DRAWINGS. 	 GRAVITY VENTILATION SYSTEM SHALL BE PROVIDED WITH AUTOMATIC OR READILY ACCESSIBLE MANUALLY OPERATED DAMPERS IN ALL OPENINGS TO THE OUTSIDE, EXCEPT COMBUSTION AIR OPENINGS. 	7. ALL CORIAN COUNTERTOP JOINTS TO BE EQUALLY SPACED.	1255 Corporate Center Dr., PH 8 Monterey Park, CA 91754
Doking construction.	 WORK NOT INCLUDED IN CONTRACT: ITEMS DESIGNATED AS 'N.LC.', FUTURE, OR BY OWNER SHALL BE EXCLUDED FROM THIS CONTRACT, ALL OTHER DOCUMENTS AND MATERIALS REQUIRED BY THESE CONTRACT DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. 	31. THE AUTOMATIC SPRINKLER SYSTEM SHALL BE FULLY OPERABLE WITHIN THE ENTIRE COVERED MALL BUILDING AND APPROVED BY THE FIELD FIRE INSPECTOR PRIOR TO THE OCCUPANCY AR	8. MILLWORK CONTRACTOR IS TO PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.	TEL: (626) 288-6896 FAX: (626) http://www.garywang.com
14. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.	8. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR JOB SITE CONDITIONS OR COMPLIANCE WITH SAFETY REGULATIONS GOVERNING WORK PERFORMED ON THIS PROJECT ALL CONTRACTORS AND	OPENINGS.	 THE GENERAL CONTRACTOR AND MILLWORK CONTRACTOR ARE TO COORDINATE AND INSTALL ALL REQUIRED BLOCKING. ANGLE BRACES, SUPPORTS, ETC. TO ADEQUATELY SUPPORT ALL COUNTERS. 	STAMP 5
15. NETHER THE OWNER OR THE ARCHITECT WILL ENFORCE SAFETY MEASURES OR REGULATIONS.	8. THE ARCHTECT SHALL NOT BE RESPONSIBLE FOR JOB SITE CONDITIONS OR COMPLIANCE WITH SAFETY REGULATIONS GOVERNING WORK PERFORMED ON THIS PROJECT. ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK ON CR RELEADED TO THESE PHASE, SMALL CONJUCT THER OPFARIONS SO THAT THE PUBLIC SPONCETOR - AND SMALL COMPLY WITH THE OCCUPATION ASTETY AND HEALTH REGULATIONS OF THE US. DEPARTMENT OF LABOR, AND	GYPSUM WALL BOARD	10. FINISHES COUNTERTOP FINISH PER FINISH SCHEDULE CABINET FACES PER FINISH SCHEDULE	
15. NETHER THE OWNER OR THE MACHITET HILL DURDEE SHETT MEXINES OR REQULATIONS THE CONTRACTOR SHALL DESCRIC, CONSTRUCT MANARMAN ALL APPRIVE DURDES, INCLUDING BHORNG AND BRACING, AND SHALL BE SOLELY RESPONSEEE FOR CONFORMING TO ALL LOCAL STATE AND FEBRAL SHETT AND HEALTH STANDARDS, LWIS AND REQULATIONS. IT IS THE INTENT OF THESE CONSTRUCTION DOCUMENTS TO INCORPORATE THE SAFETY STANDARDS OF THE STATE CODE DURISION OF NUOSTRUS. APERTY.	WITH ANY AND ALL OTHER APPLICABLE STATE AND / OR LOCAL SAFETY REGULTIONS. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE SAFETY	1. PROVIDE GYPSUM WALLBOARD, STEEL FRAMING COMPONENTS, AND ACCESSORIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, DROPLICTS, SPECIFIED HEREIN, ARE AS MANUFACTURED BY U.S.		EN1
OF THESE CONSTRUCTION DUCUMENTS TO INCOMPORATE THE SAPETT STANDARDS OF THE STATE CODE DUSION OF INJUSTRAL SAPETTY. 16. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH	OCCURATIONEL SHEET AND FORCIM ENGLOYINGS OF THE U.S. DEPARTMENT OF DEGRT, AND WITH ANY AND ALL OTHER APPLICABLE STATE AND / OR LOCAL SHETY REGULTATIONS. THE CONTINUES DURING THE COUNSES OF CONSTRUCTION OF THIS PACIET AND THAT THIS REQUIREMENT SHALL DEFEND, INDEXINITY, AND HOLD HARALESS THE OWNER AND THE AROMANCE OF WORK FOR ALL UNDERLY REAL OF ALL OF	 PHOVIDE CHYSUM MALEBURKU, STEEL FAMILINE COMPONENTS, AND ACCESSARES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. PRODUCTS SPECIFICE HEREIN ARE AS MANUFACTURED BY U.S. OFFSUM. EQUIVALENT PRODUCTS OF OTHER MANUFACTURERS WILL ECONSIDERE DRANDED THEY WEET THOSE ESTRAUSHED STANDARDS. MAKE APPROPRIATE SUBMITTAL FOR ANY SUBSTITUTIONS. 	11. HARDWARE PER FLOOR PLAN AND FINISH SCHEDULE (YP-) HINGE TEN MFC. INC. SELF CLOSING HINGE - PAT. ∳5.10.3.532 PROVIDED BY EB, BRAULEY MODEL ∲TINI - CONTACT: (213) 585-9201	Ш
15. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE THE SAME AS FOR THE SIMILAR WORK SHOWN ON THE DRAWINGS AND/OR SHALL CONFORM TO ACCEPTED STANDARDS OF PRACTICE.	UN THIS PROJECT.	SUBSITUTIONS. 2. ALL WORK SHALL COMPLY WITH FIRE RESISTIVE MATERIALS AND PLASTER AND OTHER APPLICABLE REGULATIONS.	ELECTRICAL	
 DETAILS ARE INTENDED TO SHOW METHOD AND MANNER OF ACCOMPLISHING WORK, MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT THE JOB DIMENSIONS OR CONDITIONS AND SHALL BE INCLUDED AS PART OF THE WORK. 	9. IT SHALL BE THE CONTRACTORE RESPONSIBILIT TO VERY ALL DIALNOORS AND CONTROLES AT THE UOB STE AND TO CROSS OFFICE DIRESINGS AND DETALS SHOWN ON THE ACATOL PRAVINGS WITH RELATED REQUERIENTS ON THE MECHANOL, PLURING, ELECTRICAL AND STRUCTURAL, REQUERIENTS MOST BE COOTINUED BEFORE THE CONTRACTOR PROCEEDS WITH DISCRETANCIES. CONTRACTOR IS ALSO RESPONSIBLE TO VERY WITH MALL MANGEMENT THE CANTOL DATION OF THE LEVEL LINE AND OTHER STORTING TO THE CONTRACTOR PROCESSION OF THE CHECK LINE AND THE MEDIATION OF THE CHECK LINE AND THE CONTRACTOR AND THE MEDIATION OF THE CHECK LINE AND THE MEDIATION THE MEDIATIO	APPLOADE REGULATIONS. 3. FINISH	 BOTTOM OF ELECTRICAL AND DATA RECEPTACLE OUTLETS SHALL BE INSTALLED NOT LESS THAN 15' ABOVE THE FLOOR OR WORKING PLATFORM. 	
INCLUDED AS PART OF THE WORK. 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OR REPAIR, WITHOUT DAMAGE, FOR ANY DAMAGE CAUSED BY HIM OR HIS SUB-CONTRACTOR.	CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY AND ALL DISCREPANCIES. CONTRACTOR IS ALSO RESPONSIBLE TO VERIFY WITH MALL MANAGEMENT THE EXACT LOCATION OF THE LEASE LINE AND OTHER EXISTING REQUIREMENTS NOT NOTED ON THESE	 INISH A. UNLESS NOTED OTHERWISE (E.G. SPECIAL WALL COVERING AREAS) ALL GYPSUM WALLBOARD SHALL BE TAPED, SPACKLED, AND PAINTED. 	 THE TOP OF THE GRIP OF THE OPERATING HANGLE OF CONTROLS OR SWITCHES INTROLED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTOLE OUTLETS, APPLIANCES, OR COOLING, HEATING, AND VENTILATING EQUIPMENT SHALL NOT BE MORE THAN 447 ABOVE THE FLOOR OR WORKING PLATFORM. 	6
ANY DAMAGE CAUSED BY HIM OR HIS SUB-CONTRACTOR. 19. ALL GLASS AND GLAZING SHALL COMPLY WITH STATE AND LOCAL CODES THE U.S. CONSUMER PRODUCTS SAFETY COMMISSION SAFETY STANDARDS FOR ARCHITECTURAL GLAZING MATERIALS.		B. VERIFY ANY SPECIAL FINISH AREA PRIOR TO COMMENCING WORK.		Winchell 💙
	10. ALL OMESSIGNS AND ALL CASES WHERE A COMPLOT MAY COCUR. SUCH AS RETWEN TEMS COCKEDE IN THE CONSERV. ACIDS AND ANDES ON THE DRAWINGS AND SPECIFIC DETAILS. THE ARCHITECT SHALL BE NOTIFICE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE ARCHITECT SHALL BE INTOTIFICE OF THE CONTRACTOR PRIOR TO CONSTRUCTION. THE ARCHITECT WILL INTERPRET THE INTERPRET THE INTERPRET THE INTERPRET DOCUMENTS AND THE RESULTING ADDITIONAL COSTS OF CREDITS SHALL BE INCLUDED IN THE CONTRACTORS BASE BDD. IN THE EXPERIMENT THE INTERPRET THE IN	C. CONTRACTOR IS TO PROVIDE A PAINT ROLLER TEXTURE TO WALLS ONLY. SEE FINISH SCHEDULE FOR EXISTING WALLS.	 THE CENTER OF FIRE ALARM INITIATING DEVICES (BOXES) SHALL BE LOCATED 48" ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE OR SIDEWALK. 	<u>v</u>
20. ALL INTERIOR WALLS AND PARTITIONS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST ALL LOADS TO WHICH THEY ARE SUBJECTED TO, BUT NOT LESS THAN A FORCE OF FIVE(5) POUNDS PER SQUARE FOOT APPLIED PERPENDICULAR TO THE WALLS.	DOCUMENTS AND THE RESULTING ADDITIONAL COSTS OR CREDITS SHALL BE INCLUDED IN THE CONTRACTORS BASE BID. IN THE EVENT THAT THIS REQUIREMENT IS NOT ADDIERD TO, ADDITIONAL CHARGES DURING THE CONSTRUCTION PHASE WILL NOT BE CONSIDERED BY THE	CEMENTITIOUS BACKER UNITS (C.B.U.) 1. REQUIREMENTS	 THE INSTALLATION OF FIRE ALARM EQUIPMENT AND SYSTEMS IN ANY OCCUPANCY WITHIN THE SCOPE OF THESE REGULATIONS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE LOCAL CODES. 	
21. CONTRACTOR SHALL PROVIDE AND INSTALL STIFFENERS, BRACING, BACK-UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK, STAIR RAILINGS, MECHANICAL, ELECTRICAL OR MISCELIANEOUS SEQUIPMENT.	CONTRACTORS BASE BID. IN THE EVENT THAT THIS REQUIREVENT IS NOT ADHERED TO, ADDITIONAL, CHARGES DURING THE CONSTITUTION PHASE WILL NOT BE CONSIDERED BY THERMO DESCREPTIONED FOR UNAWALABILITY OF PROPRIETARY PRODUCTS TO THE CENERAL CONTRACTORS ATTENTION WILL NOT BE CONSIDERED BY THE OWNER AND THE ARCHTECT AS AN APPROPRIATE ATTENTION WILL NOT BE CONSIDERED BY THE OWNER AND THE ARCHTECT AS AN APPROPRIATE	A. SET TILE IN LATEX MODIFIED DRY-SET MORTAR	HAZARDS AND PROTRUDING OBJECTS	MORENO VALLEY, CA 92
22. WHEN SHOP DRAWINGS ARE REQUIRED, ALL DIMENSIONS ARE TO BE VERIFIED AT THE JOB SITE BY THE CONTRACTOR PRIOR TO FABRICATION OF.	REASON FOR ADDITIONAL COMPENSATION. 11. LOCATIONS OF ANY AND ALL UTILITIES SHOWN ARE APPROXIMATE AND THE CONTRACTOR SHALL	MATERIALS A. CEMENTITIOUS BACKER UNITS - ANSI A118.9.	 OBJECTS PROJECTING FROM WALLS WITH THEIR LEADING EDGES BETWEEN 27" AND 80" ABOVE THE FINISHED FLOOR SHALL PROTRUDE NO MORE THAN 4" INTO WALKS, HALLS, CORRIDORS, PASSAGEWAYS, OR NAILES 	ISSUE DATE: 1ST 040114 - 1ST SUB TO PLANNI
23. VERIFY LOCATION AND SIZE OF ALL OPENINGS WITH ALL DRAWINGS AND MANUFACTURED ITEMS WHERE APPLICABLE.	CONTACT THE ARCHITECT & OWNER IF UNKNOWN CONDITIONS ARISE.	B. 2" GLASS FIBER MESH TAPE.	2. OBJECTS MOUNTED WITH THEIR LEADING EDGES AT OR BELOW 27" ABOVE THE EINISHED FLOOR	2ND 090914 - REVISION 3RD 100314 - 2ND SUBMITTAL
WHERE APPLICABLE. 24. VERIFY INSERTS AND EMBEDDED ITEMS WITH ALL DRAWINGS AND MANUFACTURED ITEMS WHERE APPLICABLE.	PROCEDURES REQUIRED FOR THE PERFORMANCE OF HIS OR HER SUBCONTRACTORS WORK IN, ON, OR ABOUT THE JOB SITE.	C. FASTENERS - NON-CORROSIVE AND NON-OXIDIZING.	MAY PROTRUDE ANY AMOUNT INTO WALKS, HALLS, CORRIDORS, PASSAGE WAYS OR ASLES. 3. FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS MAY OVERHANG 12" MAXIMUM FROM 27" TO 80" ABOVE THE ROUND OR FINISHED FLOOR.	4TH 100116 - 3RD SUBMITTAL 5TH 042117 - 4TH SUBMITTAL
APPLICABLE.	13. THE CONTRACTORS SHALL PROVIDE ANY AND ALL SHORING AND BRACING NECESSARY TO INSURE THE STABILITY OF ANY AND ALL PARTS OF THE PROJECT DURING CONSTRUCTION.	D. GROUT - ANSI A118.6 (USE TYPE RECOMMENDED BY TILE MANUFACTURER) 3. PREPARATION BY CEMENTITIOUS BACKER UNIT INSTALLERS	4. PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR	6TH 061617 - 5TH SUBMITTAL 7TH 083017 - 6TH SUBMITTAL 8TH 092917 - 8TH SUBMITTAL
25. THE CONTRACTOR SHALL BE RESPONSELE FOR AND SHALL BEFLACE OR REMEDY ANY FAULTY. IMPORTED ON INTERDEN LATERALS OR WORKMANDER OR ANY DAMAGE TO OTHER WORK RESULTING THEREFINANCE SIGN WORKMANDER OF ANY DAMAGE TO OTHER WORK AFTER THE CONTRACTOR SHALL SUBMIT A MANTENANCE ARREVENT, CO-SIGNED BY THE CONTRACTOR, ID MAINTAIN THE ROOTING IN A MARTENET ACREMENT. OF SIGN DEFEND OF STREED STREED, AND AND ANY DAMAGE ARREVENT OF SOUTH AND ANY DAMAGE ARREVENT, CO-SIGNED BY THE CONTRACTOR, ID MAINTAIN THE ROOTING IN A MARTENET ACREMENT. OF SIGN DE STREED OF	14. UNLESS SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS, NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, BORED, OR OTHERWISE WEAKENED WITHOUT THE PERMISSION OF THE ARCHITECT AND LANDLORD OR MALL MANAGEMENT.	A. MAXIMUM VARIATION IN THE BACKING SURFACE 1/8" IN 8'-0" FROM THE REQUIRED PLANE	MANEUVERING SPACE. 5. WALKS, HALLS, CORRIDORS, PASSAGEWAYS, AISLES OR OTHER CIRCULATION SPACES SHALL HAVE	атн 092917 - 8TH SUBMITTAL
	15. PRIOR TO THE FINAL PAYMENT, THE CONTRACTOR SHALL DELIVER TO THE OWNER ALL	B. HORIZONTAL AND VERTICAL JOINTS AND CORNERS 1/8" SPACING FILLED SOLID WITH LATEX MODIFIED DRIED-SET MORTAR.	80" MINIMUM CLEAR HEAD ROOM.	()
26. THE CONTRACTOR SHALL SUBMIT CODERS OF MANUFACTURERE CITALOS SHEETS, BROCHURES, SHEETS OF COLOR SAMPLES, INSTALLION INSTRUCTIONS, ETC. ON MANUFACTURED PRODUCTS, USED OR INSTALLED IN THE PROJECT FOR OWNERS ACCEPTANCE BEFORE PURCHASE OF DELIVERT TO THE STE. NON-COMPLIANCE MAY RESULT IN REJECTION OR NON-ACCEPTANCE.	15. PRIOR TO THE FINAL PAYMENT, THE CONTRACTOR SHALL DELIVER TO THE OWNER ALL GUARANTES, WARRANTES, MANTENNER MANULLS, PARTS LUSTS, OPERATIOR INSTRUCTIONS, AIR BALANCE REPORTS, AS BUILT DRAWINGS AND COMPLETION OF ALL ITEMS ON THE FINAL PUNCH UST AND SINCED BY TENNT.	C. GLASS FIBER MESH TAPE-EMBED IN A SKIM COAT OF THE MORTAR OVER JOINTS AND CORNERS	 ANY OBSTRUCTION THAT OVERHANGS A PEDESTRAIN WAY SHALL BE A MINIMUM OF 80* ABOVE THE WALKING SURFACE AS MEASURED FROM THE BOTTOM OF THE OBSTRUCTION. ALL ROOF PENETRATIONS MUST BE COMPLETED BY THE LANDLORD'S DESIGNATED ROOFING 	ů – – – – – – – – – – – – – – – – – – –
USED OR INSTALLED IN THE PROJECT FOR OWNERS ACCÉPTANCE BEFORE PURCHASE OF DELIVERY TO THE SITE, NON-COMPLIANCE MAY RESULT IN REJECTION OR NON-ACCEPTANCE.	TO THE FEE OFFICER OF INDICATED ON OPARINGS, THE CONTRACTOR STALL ADDRY, INSTALL	 INSTALLATION SPECIFICATIONS CEMENTITIOUS BACKER UNITS – ANSI A108.11. 	CONTRACTOR AT THE TENANTS EXPENSE.	U
27. MATERIALS AND PRODUCTS MUST BE DELIVERED TO THE BLDG. STE IN ORIGINAL PACKAGES, MATERIAL AND PRODUCTS SHALL BE STORED OFF THE GRUNDA ON WOOD BLOCKING IN AN UPRIGHT POSITION, PROTECTED FROM THE ELEMENTS, IN A MANNER TO PREVENT DAMAGE OR MARRING OF FINISH.	CONNECT, EVECT, USE, CLEAN, AND CONDITION: MANEACTIVED ANTICLES, MITERIALS, AND EQUIPALITY IN ACCORDANCE WITH MANUFACTURED LATICLES ANTIFAILS, AND EQUIPALITY IN ACCORDANCE WITH MANUFACTURED CONFERNMENTIAL INFORMATION OF OWNERS EQUIPADIT AND FRE SUPPRESSION SYSTEM. VERIFY SIZES OF THE EQUIPALITY OF THE OWNER PROFINE TO THE STAFF OF CONSTRUCTION. IT Is THE GUIPEREN OF THE OWNER PROFILE OF CONSTRUCTION. IT IS THE GUIPEREN EQUIPALITY, DURING MACANA, MANGERS OR OTHER SUPPORT FOR ALL TATULES. EQUIPALITY, DURINESS, MACANA, MANGERS OR OTHER SUPPORT FOR ALL TATULES. EQUIPALITY, DURINGS AND ALL DOTHER TUDER TO SUPPORT FOR ALL TATULES.	A. CEMENTITUUS BACKER UNITS - ANSI ATUB.11. B. TILE-ANSI A108.5.	8. THE TENANT SHALL SLEEVE, FIRE STOP, FLASH AND CAULK ALL FLOOR PENETRATIONS SO THAT THE ODORS AND LIQUIDS WILL NOT PENETRATE THE SLAB AT THE OPENINGS.	
28. ALL WORKS SHALL CONFORM TO THE MINIMUM STANDARDS OF THE LOCAL BUILDING CODE, AND	EQUIPMENT BY THE OWNER PRIOR TO THE START OF CONSTRUCTION, IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO CHECK THE DIMENSIONS IN THE FIELD, PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANSERS OR OTHER SUPPORT FOR ALL EXTINGES	C. GROUT – ANSI A108.10. PAINTING	SIGNAGES	ARCH PROJECT #: 14-074
ANY OTHER REGULATING AGENCIES HAVING AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.	17 NUMBER OF SPECIFIED ITEMS REQUIRED WHENEVER IN THESE CENERAL NOTES AN ARTICLE	PAINTING 1. SEE FINISH SCHEDULE FOR PAINT PRODUCTS.	1. THE SIGNAGE AT THE STORFFROMT WILL BE CONTRACTED DIRECTLY BY THE OWNER, THE CALEBUL CONTRACTOR, MIST PROVIDE: THE ROUTED JOINT SIGNAGE AT WELL AS CASES SANGEL TO A LL NEON SIGNAGE. THE CENERAL CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH THE SIGN CONTRACTOR AND MAINS OSITE THE JOINT SO ONE ON THE FLUID DETAILED SHOP DIAMINGS MIST BE SUBMITED TO THE ARCHITECT FOR REVER. THE ACTUAL FAMS ONLY SHOW LIMITED DESIZIN DETAILS AND ARE NOT ADECUMATE TO RE CONSTRUCTION OF THE SIGN. A SEPARATE	ACH PROJECT #. 14/074
29. APPROVAL BY THE INSPECTOR DOES NOT MEAN APPROVAL OR FAILURE TO COMPLY WITH THE PLANS AND SPECIFICATIONS, ANY DESIGN WHICH FAILS TO BE CLEAR OR IS AMBIGUOUS MUST BE REFERENCE TO THE ARCHITECT OR HIS ENGINEER FOR INTERPRETATION OR CLARIFICATIONS.	17. NUMBER OF SPECIFIED ITES REVENUES REVENEEVEN IN THESE GENERAL WORDS, AN ANTICLE, DEVICE OF SPECIE OF EQUIPMENT IS REFERENCED TO IN THE SINGULAR NUMBER, SUCH REFERENCES APPLY TO AS MANY SUCH ARTICLES AS ARE SHOWN IN THE DRAWINGS OR REQUIRED TO COMPLETE THE INSTALLATION.	2. THE WORK INCLUDES, BUT IS NOT LIMITED TO FURNISHING OF MATERIALS AND EQUIPMENT, AND COMPLETION OF PAINTING AND PAINTER'S FINISH ON EXPOSED SURFACES AS REQUIRED TO	CONTRACTOR AND MAKING SURE THE JOB IS DONE ON TIME. FULLY DETAILED SHOP DRAWINGS MUST BE SUBMITTED TO THE ARCHITECT FOR REVIEW. THE ACTUAL PLANS ONLY SHOW LIMITED DESIGN DETAILS AND ARE NOT ADEQUATED FOR CONSTRUCTION OF THE SIGN. A SEPARATE	DRAWN BY AD,GC,& CL
30. THE CONTRACTOR SHALL TAKE ALL MEANS NECESSARY TO PROTECT HIS PORTION OF THE WORK BEEDORE DUBINE AND AFTER INSTALLATION. AND TO DEPARTURE THE INFORMATION OF THE WORK	REQUIRED TO COMPLETE THE INSTALLATION. 18. CLEAN UP UPON COMPLETION, REMOVE ALL SURPLUS MATERIAL, EQUIPMENT DEBRIS INCIDENTAL TO THIS WORK, AND LEAVE THE PREMISES IN A "VACUUM" CONDITION.	COMPLETE FINISHING OF THE WORK INDICATED ON THE DRAWINGS OR SPECIFIED HEREIN. 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE OF MATERIALS AND APPLICATION	2. BARRIER LAWS FOR THE PHYSICALLY HANDICAPPED, (BELOW ARE MINIMUM GUIDELINES PER TITLE	SHEET CONTENT
30. THE CONTRACTOR SHALL TAKE ALL MEANS NECESSARY TO PROTECT HIS PORTION OF THE WORK BEFORE, DURING, AND ATTER INSTALLATION, AND TO PROTECT THE INSTALLED WORK AND MATERIUS OF OTHER TRADES. IN THE EVENT OF DAMAGE, THE CONTACTOR SHALL MAKE ALL REPARS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF THE ARCHITECT AND AT NO ADDITIONAL COST TO THE OWNER.		WITH GOVERNING AGENCIES (LOCAL STATE AND FEDERAL) IN CONNECTION WITH THIS PROJECT.	 Devices Objections of the integration of the provided press of the animology of the provided press of the pres	GENERAL NOTES
31. WORKMANSHIP SHALL CONFORM TO THE BEST STANDARDS AND ACCEPTED PRACTICES OF THE	19. CURANTEE THE CONTRACTOR SHALL BE RESPONSIBLE TO REFLACE OR FELEDY ANY FAULTY, IMPROPER OR INFERIOR MATERIALS OR WORKMONEHIP OR ANY DAMAGE TO OTHER WORK RESULTING THEREFROM WITHOUT COSTS TO THE OWNER WHICH SHALL APPEAR WITHIN ONE YEAR AFTER THE COMPETION AND ACCEFTANCE OF THE WORK HUDER THIS CONTRACT.	WALLBOARD NOT COVERED BY OTHER MATERIALS, B. ALL EXISTING WALLBOARD TO A MIN. OF 6" ABOVE ROOM CEMING. THICAL UNLESS NOTED OTHERWISE ON ROOM FINISH SCHEDULE, C. ALL METAL IN IMPROVED AREAS NOT PRE-THINSEED FIROR TO INSTALLATION. D. ALL WOOD SURFACES,	PROCEEDING WITH WORK SU AFFECTED.	SHEET NO
31. WORKMANSHP SHALL CONFORM TO THE BEST STANDARDS AND ACCEPTED PRACTICES OF THE TRUDES INVOLVED, AND SHALL INCLUDE ALL ITEMS OF FABRICATION, CONSTRUCTION AND INSTALLATION REGULARY. FORMSHEE OR REQUIRED FOR COMPRESSION, RECORD ANY FINISH REGULINES FOR SUCCESSFUL OPERATION AS INTENDED. MORK SHALL BE EXECUTED BY MECHANICS SALLED IN THEIR RESPECTIVE LINES OF WORK.	20. IF ANY CONTRACTOR CLAIMS THAT ANY INSTRUCTIONS FROM THE ARCHITECT OR OWNER INVOLVES EXTRA COST UNDER THIS CONTRACT, HE SHALL GIVE WRITTEN NOTICE TO THE ARCHITECT AND	TRIM, OR PIECES NOT PRE-FINISHED FROM TO INSTALLATION, D. ALL WOOD SURPACES, TRIM, OR PIECES NOT PRE-FINISHED PRIOR TO INSTALLATION, (DO NOT PAINT INTERIOR ELEMENTS NORMALLY CONCEALED SUCH AS STRUCTURAL COMPONENTS).	MCCHANICAL RELUMEMENTS 1. LANDLORD'S HVAC AND FAN UNITS' STEEL FRAMING DETAIL FOR ROOF TOP UNITS. PROVIDE PLAN LOCATION OF THE ROOF TOP HVAC AND FAN UNIT.	107
MECHANICS SKILLED IN THEIR RESPECTIVE LINES OF WORK. 32. THE ARCHITECT DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE, AND NO PROVISIONS	20. F AN CONTRACTOR CLAME THAT AN INSTRUCTION FROM THE ARCHITEST OR DIMENSION DYRA GOST LUMBET THIS CONTRACT, HE SHALL ONE NEWTRIN INCIDENT ON HE ARCHITEST AND OWNER THEREOF WITHIN A REASONABLE TIME AFTER THE RECEPT OF SUCH INSTRUCTIONS NOT LATER THAN 5 JON'S THEREFROM, MOR, IN AN EVEN, BEFORE FROMEZORING TO XECUTE THE WORK, EXCEPT IN SURFRENCY ENDANCEMENT LET OR PROPERTY, AND THE PROCEDURE SHALL THEN BE AS PROVIDED FOR CHARGES IN THE WORK, NO SUCH CHAM SHALL BE VILLO UNLESS	5. MATERIALS		G-10([⊭]
32. THE ARCHITECT DOES NOT GUARANTEE THE CONTRACTORS PERFORMANCE, AND NO PROVISIONS OF THE CONTRACT DOCUMENTS SHALL RELIVE THE CONTRACTOR FROM ANY LUBILITY DUE TO NEGLIGENCE, INCOMPETENCE OR ERRORS OF OMISSIONS OF COMMISSIONS OF THE CONTRACTOR.	30 mult.	A. PAINT PRODUCTS SHALL BE MANUFACTURED BY BENJAMIN MOORE OR APPROVED EQUAL. B. ACCESSORY MATERNALS SUCH AS TURPENTINE / THINNER / UNSEEDED OIL SHALL BE APPROVED BY THE COATING MANUFACTURE.	2. THE TENNIT'S HARG AND EXHAUST SYSTEMS MUST BE BALANCED AT THE TENNIT'S EXPENSE PRIOR TO OPENING FOR BUSINESS, TO COMPLY THE LANDLORD-APPROVED WORKING ROWINDS. A CERTIFIED AIR BALANCE CONTRACTOR, APPROVED BY THE LANDLORD AND NOT AFFLIATED WITH THE TENNIT'S MECHANICAL CONTRACTOR, SHALL PERFORM THE BALANCED AND SUBMIT A	
33. THE GENERAL CONTRACTOR AS WELL AS MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS	21. THE OWNER SHALL CONTRACT WITH MASTER PROTECTION / FIRE PROTECTION SYSTEM FOR THE	APPROVED BY THE COATING MANUFACTURE.	REPORT TO THE LANDLORD.	

CONDITIONS OF APPROVAL PUBLIC WORKS DEPARTMENT

Special Districts Division

Conditions are standard to all or most development projects. Some special conditions, modified conditions or clarification of conditions may be included. Please review conditions as listed and contact the Division at 951.413.3480 for any questions.

Acknowledgement of Conditions

The following items are the Special Districts Division's Conditions of Approval for project The toolwing terms are the operand barries between a source or Approven to project PA14-0013; this project shall be completed at no cost to any Government Agency. All questions regarding the following Conditions including but not limited to intent, requests for changemondication, variance and/or request for extension of time shall be sought from the Special Districts Division of the Public Works Department 951.413.3480 or by emailing specialdistricts@moval.org.

General Conditions

- The parcel(s) associated with this project have been incorporated into the Marono Valley Community Services District Zone A (Parks & Community Services) and Zone C (Arterial Street Lighting). All assessable parcels therein shall be subject to annual parcel taxes for Zone A and Zone C for SD-1 operations and capital improvements.
- Any damage to existing landscape areas maintained by the City of Moreno Valley due to project construction shall be repaired/replaced by the Developer, or Developer's successors in interest, at no cost to the City of Moreno Valley. SD-2
- The ongoing maintenance of any landscaping required to be installed behind the curb on Day Street and Alessandro Boulevard shall be the SD-3 responsibility of the property owner.
- This project is located within the Edgemont Community Services District for SD-4 Transporter a souther wram and Exigement Community Services District for steelight enviros. Coordination of streetight funding requirements should be made with the Edgemont Community Services District at Edgemont Community Services District, P. O. Box 5436, Riverside, CA 92614. Prone: 951.784.2411.

Prior to Building Permit Issu

- Iding Permit Issuance (BP) This project has been identified to be included in the formation of a Community Pacifiles District (Melic-Roos) for Public Safety services, Rangers, and Animal Control services. The property owner(s) shall not protest the formation: however, have relatin the right to object to the rate and method of maximum special tax. In compliance with Proposition 218, the property owner shall agree to approve the mail ballot proceeding (special elicitic). The Developer must rotty the Special Districts. Division at 951 413-3480 or at specialdistricts@moval.org when submitting the participation. If the fair building permit is paided prote to formation of district, this condition with not appy. If the condition applies, the special elicition, the condition with not appy. If the condition applies, the special district, this condition with not appy. If the condition applies, the special elicition virtue a minimum of 00 days to process prior to Issuance of the first building permit to allow adequate time to be in compliance with the revisions of Article 132 of the Californa Constitution. (California Government Code Section 53313 et.se.) SD-5
- SD-6 (B²) This project is conditioned to provide a lunding source for the cupital improvements and/or maintenance for the Alessandro Boulevard midian landscape. The Developer shall satisfy the condition with one of the opions outlined below
 - a. Participate in a special election (mail ballot proceeding) for Participate in a special election (mail ballot proceeding) for improved median maintenance and pay all associated codes of the ballot process and formation, if any. Financing may be structured through a Community Services District zone, Community Facilities, District, Landscape and Lighting Maintenance District, or other financing structure as determined methor allower. by the city; or
 - b. Fund an endowment to cover the future maintenance costs of the landscaped area.

The Developer must notify the Special Districts Division at 951,413,3480 or The Developer must notly the Special Districts Division at 651.413.3440 or at special/shifts/gimovalor of this selected financing option when sumiting the application for building permit issuance. The option for participating in a special elector negraters 90 days to compliate the special electon process to allow adequate time to be in compliance with the privilians of Article 15C of the California Costitution. The financial option selected shall be in place prior to the issuance of (90). The negrate providence of the prior to the second seco

- SD-7 (BP) This project is conditioned for a proposed district to provide a funding source for the operation and maintenance of public improvements end/or services associated with new development in that territory. The Developer shall satisfy this condition with one of the options outlined below
 - a. Participate in a special election for maintenance/services and Participate in a special election for mantenance/services and pay all associated costs of the election process and fermitin, if any. Financing may be structured through a Community Facilities District, Landscape and Lighting Mahlenance District, or other financing structure as determined by the City; or
 - b. Establish an endowment fund to cover the fulure maintenance and/or service costs.

The Developer must notify the Special Districts Division at 951,413,3480 or The Developer must notly the Spocial Districts Division 4 (51.43.3480 or at speculatorization) and an unbinning the application for building parmit is pushed by the special provided provided by the special building provides of being formed the Developer must inform the Special Districts Division of its selected francing option (a, or b, above). The option for participating in a special elector requires 80 days to complete he special elector provisions of Article 13 c dir during times to the the provisions of Article 13 c dir during times to be in complete he special elector provisions of Article 13 c dir during times in the provisions of Article 13 c dir during times to be in compliance with the provisions of Article 13 c dir during times constitution.

The financial option selected shall be in place prior to the issuance of the certificate of occupancy.

Commercial (BP) If Land Development, a Division of the Public Works Department, requires this project to supply a funding source necessary to provise for, butinol limited to stormwater utilities services for the continuous operation, remediation and/or replacement, monitoring, systems evaluations and enhancement of on-sket facilities and performing annual SD-8 inspections of the affected areas to ensure compliance with state mandated stormwater regulations, a funding source needs to be established. The Developer must notify the Special Districts Division at 951.413.3480 or at Developer must notify the Special Districts Division of 651.413.3480 or at specialistic riskipmoultop of its selected manual dioption for the National Polution Discharge Elimination System (NPDES) program when submitting the application for the first building permit issume (see Land Development's related constition). If participating in a special election the process requires a 60 day period grap. (bit to Cliffs Naturel of a building permit to allow adequate time to be in compliance with the provisions of Article 3D of the California Constitution, (California Health and Salek) Code Sections 5473 through 54738 (Ord. 108 Section 3.51,000) Alterno Valley Municipa Code The 3. Section 3.50,000)

FIRE PREVENTION BUREAU

With respect to the conditions of approval, the following fire protection measures shall be provided in accordance with Moreno Valley City Ordinances and/or shall be provided in accordance w recognized fire protection standards:

- F1. The applicant/developer shall provide docurrentation to show there exists a water system capable of delivering_1500___ GPM for_2_ hour(s) duration at 20-PSI residual operating pressure.
- F2. The minimum number of fire hydrants required, as well as the location and spacing of fire hydrants, shall comply with the C.F.C. MVMC, and NFPA 24. Fire hydrants shall be located on doise than 40 feet to a building. A fire hydrant shall be located with a fire synthese the space interval connection for buildings packed with a fire synthese register. The size and number of contests required for the approved fire hydrants are (8 × 4 × 2 / 5 × 2 / 5) (CFG 507 3, 505 37, Appendix 0, NFPA 24 7.2, MVMC
- F3. Prior to issuance of Certificate of Occupancy or Building Final, the Prior to issuance of Centrate of Occupancy of Building Final, the applicard/developer shall install as fire alarm system monitored by an requirement for monitoring the spinisker system occupancy or use. Fire alarm panel shall be accessible from exterior of building in an approved location. Plans shall be submitted to the Fire Prevention Bureau for approxil prior to installation. (CFC Chapter 3 and KMRC & 33.010)
- Prior to issuance of Certificate of Occupancy or Building Final, the applicant/developer shall isstall a fire sprihler system based on square foodage and type of construction, occupancy or use. Fire sprinkler plans shall be submitted to the Fire Prevention Bureau for approval prior to installation. (FCC Chapter 8, MWKC 3.8.100[0]):
- F5. Prior to issuance of Building Permits, the applicant/developer shall participate in the Fire Impact Mitigation Program. (Fee Resolution as adopted by City Council)
- Prior to construction and issuance of building permits, all locations where structures are to be built after laws on approved. Fire Department emergency vehicular access noad (all weather surface) capable on sustaining an imposed laid of 80,000 libs. GWW, based on street standards approved by the Public Works Director and the Fire Prevention Bureau. (CFC 601.4 and MC GFS Standard Engineering Plan 108d) F6.
- Prior to construction and issuance of Building Permits, fire lanes and fire F7. apparatus access roads shall have an unobstructed width of not less than twenty-four (24) feet as approved by the Fire Prevention Bureau and an unobstructed vertical clearance of not less the thirteen (13) feet six (6) nches. (CFC 503.2.1 and MVMC 8.36.060[E])
- F8 Prior to construction, all made, driveways and private roads shall not Prior to construction, all roads, driveways and private roads shall not exceed 12 percent grade. The angle of approach and departure for any means of Fire Department access shall not exceed 1 ft, drop in 20 ft, 0.3 m drop in 6 m), and the design limitations of the fire apparatus of the Fire Department shall be subject to approval by the AHJ. (CFC 503 and M/MC 8.36 060) (CFC 503.27 and M/MC 8.36.060(ft))
- Prior to issuance of Building Permits, the applicant/developer shall provide the File Prevention Dureau with an approved site plan for File Lanes and signage. (CFC 501.3) F9.
- F10. Prior to issuance of Building Permits, the applicant/developer shall furnish one copy of the water system plans to the Fire Prevention Bureau for a) Be signed by a registered civil engineer or a certified fire
 - protection enginee; b) Contain a Fire Prevention Bureau approval signature block; and c) Conform to hydrart type, location, spacing of new and existing hydrants and minimum fire flow required as determined by the Fire Prevention Bureau.
 - After the local water company signs the plans, the originate shart be presented to the Fire Prevention Bureau for signatures. The required water system, including fire hydratis, shall be installed, made serviceable, and be accepted by the Moreno Valley Fire Department prior to beginning construction. They shall be maintained accessible.
 - Existing fire hydrants on public streets are allowed to be considered available. Existing fire hydrants on adjacent properties shall not be considered available unless fire apparatus access reads exident between properties and easements are established to prevent obstruction of such roads. (CFC 507, 501.3)
- F11. Prior to issuance of Certificate of Occupancy or Building Final, "Blue Reflective Markers" shall be installed to identify fire hydrant locations in accordance with City specifications. (CFC 509.1 and MV City Standard
- Engineering Plan 422 a, b, c) F12. Prior to issuance of Certificate of Occupancy or Building Final, all <u>commercial buildings</u> shall display street numbers in a prominent location on the street side and rear access locations. The numerials shall be a minimum of six (6) inches in height for buildings and six (8) inches in height for suble identification on a contrasting background. (CFC 505.1, 1).

F13. Prior to issuance of a Certificate of Occupancy or Building Final, a "Knox Box Rapd Entry System" shall be provided. The Knox-Box shall be installed an an accessible location approved by the Fire Chick. All exterior security emergency access gates shall be electoricially operated and be provided with Knox key surches for access by emergency personnel. (CEC 506 1)

BUILDING SAFETY DIVISION

The following conditions have been generated based on the information provided with your application. Please note that future revisions or changes in scope to the project may require additional items. Fee strates for plan review and permits can be obtained by contacting the Building Safety Division at 951-113.3300.

- B1. All new structures shall be designed in conformance to the latest design standards adopted by the State of California in the <u>california Building</u> <u>Cade</u>, (CBC) Part 2, Tille 24, California Code of Regulations instuding requirements for allowable area, occupancy separations, fire suppression systems, accessibility, etc. The current code didino is the 2013 CBC.
- The proposed non-residential project shall comply with 2013 California Green Building Standards Code, Section 5.106.5.3, mandatory requirements for Electric Vehicle Charging Station (EVCS). B2.
- B3. Prior to submittal, all new development, including residential second units, are required to obtain a valid property address prior to permit application. Addresses can be obtained by contacting the Building Safety Division at 951 413 350.
- The proposed project's occupancy shall be classified by the Building Official and must compty with exiting, occupancy separation(s) and minimum plumbing fxture requirements of the 2013 California Plumbing Code Table 4-1. B4.
- B5. Building plans submitted shall be signed and sealed by a California licensed design professional as required by the State Business and Professions Code
- The proposed non-residential project shall comply with the latest Federal Law, Americans with Disabilities Act, and State Law, California Code of Regulations, Title 24, Chapter 11B for accessibility standards for the disabilid including access to the site, exits, bathrooms, work spaces, etc. B6.
- B7. The proposed development is subject to the payment of required wilding application is submitted or prior to the issuance of permits as time a building appli ined by the City
- B8. The proposed project will be subject to approval by the Box Springs Mutual Water Company and all applicable fees and charges shall be paid prior to permit issuance. Contact the water district at 1951.653.6419 for specific details.
- Prior b permit issuance, every applicant shall submit a properly completed Waste Management Plan (WMP), as a portion of the building or demolition permit process. (MC 8.80.030) B9.
- B10 Any construction within the city shall only be as follows: Monday through Any construction within the city shall only be as tollows: Monoay through Friday (except for holidays) seven a.m. to seven p.m.; Saturday from eight a.m. to four p.m.; unless written approval is first obtained from the Building Official or City Engineer per City of Moreno Valley Municipal Code (MC 8.14.400E).
- B11. Contact the Building Safety Division for permit application submittal
- B12. "If submitted after January 1, 2017 all building codes will change to the new 2016 California model codes.""



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ACCESSIBILITY REQUIREMENTS 1.g APPLICATION AND ADMINISTRATION 31. LOWEST EDGE OF A SIGN OR OTHER OBSTRUCTION, WHEN MOUNTED BETWEEN POSTS OR PYLONS SEPARATED WITH A CLEAR DESTANCE ORGATER THAN 12 MOHES, SHALL BE LESS THAN 27 MOHES OR MORE THAN 80 INVEST ABOVE THE FINSH FLOOR OR OR ORGUNG, \$119-107-37, SIGNAR 119-3073, (S) LANDINGS SHALL COMPLY WITH 118-302 FLOOR OR GROUND SURFACES. CHANGES IN LEVEL ARE NOT PERMITTED. \$118-405.7.1 OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES WILL BE TOWED AWAY AT THE OWNER'S EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT: _______ OR BY FOR PASSING SPACES, AN ACCESSIBLE ROUTE WITH A CLAR WOTH LESS THAN 60 INCHES SHALL PROVIDE PASSING SPACES AT INTERNALS OF 200 FEET MAXIMUM. PASSING SPACES SHALL BE CITIERS A SPACE 40 INCHES MINIAUE OF ROTEOS MANAGE (OR, AN INTERCENCING OF TID BALLING SPACES SPACIAL T-SPACE) SPACE COMPATING BINI THI-DAS-AT F-SHARED SPACE INDER THE BASE AND AND OF THE T-SPACED SPACE COMPATING BINI THI-DAS-AT F-SHARED SPACE INDER THE BASE AND AND OF THE T-SPACED SPACE COMPATING BINI THI-DAS-AT F-SHARED SPACE INDER THE BASE AND AND OF THE T-SPACED SPACE COMPATING BINI THI-DAS-AT F-SHARED SPACE INDER THE BASE AND AND OF THE T-SPACED SPACE COMPATING BINI THI-DAS-AT F-SHARED SPACE INDER THE BASE AND AND OF THE EXPENSE, TONED VEHICLES MAY BE RELAYING. ALL AREAS OF NEWLY DESIGNED AND NEWLY CONSTRUCTED BUILDINGS AND FACILITIES AND ALT PORTIONS OF EXISTING BUILDINGS AND FACILITIES SHALL COMPLY WITH THESE REQUIREMENTS. REQUIREMENTS APPLY TO TEMPORARY AND PERMANENT BUILDINGS AND FACILITIES. §118–201 THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING, §118-405.7.2 32. EDGE OF SIGNS OR OTHER OBJECTS, WHEN MOUNTED ON POSTS OR PILONS WITH THER ROTTOM EDGES LESS THAN 80 INCHES ABOVE THE FLOOR OR GROUND SUBFACE, SHALL BE ROUNDED OR EASED AND THE CORRESS SHALL HAVE A WINNIUM ROULD OF IN ION, 611–673,31. EACH ADDITION TO AN EXISTING BUILDING OR FACULTY SHALL COMPLY WITH THE REQUIREMENTS FOR CONSTRUCTION AND SHALL COMPLY WITH 118-202.4 PATH OF TRAVEL REQUIREMENTS. \$118-202.2 24. PARKING SPACES AND ACCESS ASLES SHALL BE DESIGNED SO THAT PERSONS USING THEM ARE NOT RECORRED TO TRIVEL BEHIND PARKING SPACES OTHER THAN TO PASS BEHIND THE PARKING SPACE IN WHICH THEY PARKING BITH-500.7.1 54. TOP LANDINGS SHALL BE 60 INCHES WIDE MINIMUM. \$118-405.7.2.1 WHERE HANDRALS ARE PROVIDED ALONG WALKING SURFACES WITH RUNNING SLOPES NOT STEEPER THAN 1.20 (5%) THEY SHILL COMPLY WITH HANDRAL REQUIREMENTS OF 118-505 HANDRALS, \$118-403.6 . VERTICAL CLEARANCE SHALL BE AT LEAST BO INCHES HIGH ON CIRCULATION PATHS EXCEPT AT DOOR CLOSERS AND DOOR STOPS, WHICH WAY BE 78 INCHES MINIMAR ABOVE THE FINISH FLOOR OR GROUND. 55 THE LANDING CLEAR LENGTH SHALL BE 60 INCHES LONG MINIMUM \$118-405.7.3. 3. EACH DISTING ELEMENT OR SPACE THAT IS ALTERED SHALL COMPLY WITH THE APPLICABLE REQUIRENTS O DMISSION 2, INCLUDEN 119-2024 PARH OF TRANGL. REQUIREMENTS UNLESS THE BULLING OFFICIAL DETERMINES COMPLANCE WITH APPLICABLE REQUIRENEST IS TO STOCIALLY INFORMED AND THE ALTERATION COMPLESS WITH THE REQUIREMENTS TO THE MAXMANN EXTENT FRASBLE OR PROVIDES EQUIVALENT FACULTATION, FILT-2023. ALL WALKS WITH CONTINUOUS GRADENTS SHALL HWE RESTING AREAS, 5 FEET IN LENGTH, AT INTERVALS OF 400 FEET MAXIMAN. THE RESTING AREA SHALL BE AT LEAST AS WIDE AS THE WALK. THE \$2.0PE OF THE RESTING AREA IN ALL DREFTONS SHALL BE IT-146 (2.0.387). MAXIMUL \$11-40.37 0 25. A CURB OR WHEEL STOP SHALL BE PROVIDED IF REQUIRED TO PREVENT ENCROACHWENT OF VEHICLES OVER THE REQUIRED CLEAR WIDTH OF ADJACENT ACCESSIBLE ROUTES. §118-502.7.2 56. BOTTOM LANDINGS SHALL EXTEND 72 INCHES MINIMUM IN THE DIRECTION OF RAMP RUN. \$118-405.7.3.1 CUMPORALS OR OTHER BARRIERS WITH A LEADING EDGE LOCATED 27 INCHES MAXIMUM ABOVE THE FINSH FLOOR OR ORGUND SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE ON CIRCULATION PATHS IS LESS THAN 80 INCHES INCH. 811-807.4. FOURE THE-WORTH-307.4 57. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING 60 INCHES WHERE DOORBANS ARE LOOKED AGAACENT TO A RAMP LAKENG, WARENERE CLEARANCES REQUERE DO 118-404.24 AND 118-404.32 SHALL BE FERMITED TO ORENAP THE REQUERE DARDIG AREA DOORS, HERE TALLY OPEN, SHALL NOT REDUCE THE KINDING MORE THE RAMP LAKENG TO LESS DOORS, IN ANY FOOTION, SHALL NOT REDUCE THE WINDING MORENOG OF THE RAMP LAKENG TO LESS TIMM 42 ROXESE 2118-405.75 RS. DOORWAYS AND GATES HANDRAILS PROVIDED ALONG WALKING SURFACES COMPLYING WITH SECTION 118-403 WALKIN REDUIRED AT RAMPS COMPLYING WITH SECTION 118-405 RAMPS, AND REQUIRED AT STARS WITH SECTION 118-504 STARKIN'S SHALL COMPLY WITH SECTION 118-506 HANDRAILS. §11 4. WHEN ALTERATIONS OR ADDITIONS ARE MADE TO EXISTING BUILDINGS OR FACILITIES, AN ACCESSIBLE PATH OF TRAVEL TO THE SPECIFIC AREA OF ALTERATION OR ADDITION SHALL BE PROVIDED UNLESS OTHERWISE EXEMPTION WHERE A GUY SUPPORT IS USED PARALLEL TO A CIRCULATION PATH, INCLUDING BUT NOT LIMITED TO SDEWALKS, A GUY BENCE, SDEWALK GUY OR SMILAR DEVICE SHALL BE USED TO PREVENT AN OVERWANDEN GESTRUCTION, \$111-307.4 doors, doornwys, and gates providing user passage shall be provided in accordance with 118–206.5 doors, doornwys, and gates. \$118-206.5TRAVEL TO 1 \$118-202.4 Winchel EACH ENTRANCE TO A BUILDING OR FACULTY REQUIRED TO COMPLY WITH 118-206.4 ENTRANCES SHALL COMPLY WITH 118-404 DOORS, DOORWAYS, AND GATES. \$118-206.5.1 PRIMARY ACCESSIBLE PATH OF TRAVEL SHALL INCLUDE A PRIMARY ENTRANCE TO THE BUILDING OR FACILITY; TOLET AND BATHING FACILITIES SERVING THE AREA; OPINIC PRIMARY ENTRANCE TO THE BUILDING OR FACILITY; TELEPHONES SERVING THE AREA; AND SIRVES \$119-2024. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STARS AND RAMPS. \$118-505.2 EACH RANGES 50 PAMP PLINS SHALL HAVE COMPLIANT HANDRALS PER 118-505 HANDRALS \$118-405.8 34. DECITICAL CONTROLS AND SWITCHES INTORED TO BE USED BY THE OCCUPANT OF A ROOM OF AREA TO CONTROL LORITING AND RESERVACE OUTLESS, APPLIANCES OF COCUME, HEATING AND VERTILATING DOUTHENTS MAY, BE LOCATED WITHIN LLORABLE RECH ANALESS, LON FRACIA SMULL BE MARKING TO THE BOTTOM OF THE CALLED BOX AND HEAH REACH SHALL BE MARKINED TO THE TOP OF THE CALLED BOX, \$113-308.1 Handrals shall be continuous within the full length of each star flight or runp run. Insid Handrals on Switchersco or dogles stars and ramps shall be continuous between flights of runs, 8119-603. WITHN A BUILDING OR FACILITY, EVERY DOOR, DOORMAY OR GATE SERVING ROOMS AND SPACES COMPLIN WITH THIS CHAPTER SHALL COMPLY WITH 118-404 DOORS, DOORMAYS, AND GATES. \$118-206.5.2 EDGE PROTECTION COMPLYING WITH 118-405.9.2 CURB OR BARRIER SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND AT EACH SIDE OF RAMP LANDINGS, 8118-405.9 (SEE EXCEPTIONS) BUILDING BLOCKS A CURE, 2 INCHES HIGH MINAURU, OR BARRER SHALL BE PROVIDED THAT PREVENTS THE PASSAGE INCH DUMETER SCHEDE, WHERE MIT PORTION OF THE SPHERE BUTTAN A INCHES OF THE FIRSH OR GROUND SURFACE. TO PREVENT INHEEL BUTTAMENT, THE CLARE OR BURKER SHALL PROVIDE A CONTINUOUS AND UNITERMETER BURKER AURON ETHE LENGTH OF THE RAME, §118-405.92 TOP OF GRIPPING SURFACES OF HANDRALS SHALL BE 34 INCHES MINIMUM AND 38 INCH VERTICULLY ABOVE WALKING SURFACES, STAR NOSINGS, AND RNAP SURFACES. HANDRALS CONSISTENT HEIGHT ABOVE WALKING SURFACES, STAR NOSINGS, AND RNAP SURFACES, §1 DOORS, DOORWAYS AND GATES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH 118-404 DOORS, DOORWAYS, AND GATES, \$118-404.1 FLOOR OR GROLIND SURFACES 1 FLOOP AND CROWN SUPERCES SHALL BE STARLE FRAM AND SUP RESISTANT \$118-302.1 ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CROUTS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED WITHIN ALLOWARLE REACH RANGES. LOW REACH SHALL BE MASSINGED TO THE BOTTOM OF THE OUTLE BOX AND HIGH REACH SHALL BE MASSINGED TO THE TOP OF THE OUTLET BOX, \$110-504.12 . MANUAL DOORS AND DOORBAYS AND MANUAL GATES INTENDED FOR USER PASSAGE SHALL COMPLY WITH 118-404.2 MANUAL DOORS, DOORBAYS, AND MANUAL GATES. §118-404.2 Clearnice between handral ordpring subfaces and adjacent subfaces shall be 1% inches minibul. Handrals may be located in a recess if the recess is 3 inches maximum deep and inches minibul oldra robust het top of the handrals. But =-60.5 CARPET OR CARPET THE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHON, PAO, OR BACKING OR NO CUSHON OR PAO, CHAPET OR CARPET THE SHALL HAVE A LEVEL LOOP, TEXTREED L LEVEL OF THE, OR LEVEL CUT/ANCJT PHE TEXTURE. PLE HEIGHT SHALL BE ½ INCH MAXIMAN. §118-302.2, FIGURE 118-302.2 LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER. REVOLVING DOORS, REVOLVING GATES, AND TURNISTILES SHALL NOT BE PART OF AN ACCESSIBLE ROUTE. \$118-402.2.1 High Forward Reach that is undestructed shall be 48 inches maximum and the Low Forward Reach Small be 15 inches minimum above the finish floor or ground. §118–308.2.1. Figure 1 19.8–308.2.1 HANDRAIL ORIPPING SURFACES SHALL BE CONTINUOUS ALONG THER LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THER TOPS OR SUBS. THE BOTTONS OF HANDRAIL CRAPPING SURFACES SHALL NOT OBSTRUCTED FOR MORE THAN 20 PERCENT OF THER LENGTH. WHERE PROMOED, HORIZONTAL PROJECTION SHALL COCK. IT is INCRES INMAIN BELOW THE BOTTON OF THE HANDRAIL CRAPPING SURFACE, \$118-40 . GENERAL SITE AND BUILDING ELEMENTS AT LEAST ONE OF THE ACTIVE LEAVES OF DOORWAYS WITH TWO LEAVES SHALL COMPLY WITH 118-404.2.3 CLEAR WIDTH AND 118-404.2.4 MANELVERING CLEARANCES. \$118-404.2.2 EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENRORE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH 118-303 CHANGES IN LEVEL 8118-302.2 PARKING SPACES Considering and the second sec HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM WHERE THE REACH DEPTH IS 20 INCHES OR LESS AND 44 INCHES MAXIMUM WHERE THE REACH DEPTH DEEDED 20 INCHES, HIGH FORWARD REACH SHALL NOT EXCEED 25 INCHES IN DEPTH, §118-00.22, RURE 118-08.2.2 WHERE PARKING SPACES ARE PROVIDED, ACCESSIBLE PARKING SPACES SHALL BE PROVIDED IN NUMBER AND KIND REQUIRED PER SECTION 118-208 PARKING SPACES. §118-208.1 Index recommends, months DARHOSONS ON TH SHALL HAVE PRECEDENCE OVER SCALED CONTRACTORS SHALL VERIFY, AND BE RESPOND DARRONDS AND CONDITIONS ON THE JOB, AND MUST BE NOTIFIED OF ANY WARANDA'S FRAM TO HANDRINL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF INCHES MINIMUM AND 2 INCHES MAXINUM, \$118-505,7,1 OPDININGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN \$\u03c4 INI IN DAMETER, LONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOWNMENT DERCTION OF TRAVEL, \$\u03c41 = 70.23, FRAME 118-302.3 NEO NINO ADMINISTRATI EN ADMINISTRATI DI PROVINE FACILITY (PARONE LOTS AND PARINA NAMERE OF PARONE SPACES RECLIERO TO DE ACCESSIBLE S TO SE CALCIALATO SO PARONE FACULTI, THE RECUERD NAMERE I SATI DISACTO NI THE TOTAL NAMERO FI PROVIDEI IN ALL OF THE PARING FACILITES PROVIDEI ON SITE \$116-208 . WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BEDREATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION, \$115-506.2; 33. HANDRAIL ORIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERMETER DAVE OF 4 INCHES MINIMUM AND 6% INCHES MAXIMUM, AND A CROSS-SECTION DIMENSION OF 2% INCHES MAXIMUM. 8118-605.7.2 AND CONDITIONS SHOWN BY THESE DRAWINGS, SHO BE SUBMITTED TO THIS OFFICE FOR REVEN BEFOR IANGES IN LEVEL HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FINSH FLOOR WINDER THE SIDE REACH IS UNDESTRUCTED OR THE BUTH OF AND GESTRUCTION DOES NOT EXCEED 10 INCHES, BYTHE-3063.1, FUNDLE 118-3063.1 VERTICAL CHANGES IN LEVEL FOR FLOOR OR GROUND SURFACES WAY BE & INCH HIGH MAXIMUM AN MINIMUM MANEUVERING CLEARANCES AT DOORS AND GATES SHALL COMPLY WITH 118-404.2. CLEARANCES. MANEUVERING CLEARANCES SHALL EXTEND THE FULL WOTH OF THE DOORMAY, REQUIRED LATH SIDE OR HUNGE SIDE CLEARANCE \$118-404.2.4 ONE IN DEPTY SIX OR FRACTION OF SIX FRAMONG SPACES REQUERED BY SECTION 118-208.2 MINNAM MARKER, DUTI NOT LISS TIMM ONE, SHALL BE SEMPLOY THAN ACCESS AGLE IN ANCESS MEET MEET MAINLA MARKER, DUTI NOT LISS TIMM ONE, SHALL BE SEMPLOY TO AN ACCESSENT. ALL SUCH SMACES WAR BE AN ACCESS THAT ALL SUCH SMACES WAR BE ADDRESS OF DUTIES AND ALL BE DESDATION TO AN ACCESSENT. ALL SUCH SMACES WAR BE ADDRESS OF DUTIES AND ALL BE ADDRESS OF DUTIES AND ALL SUCH SMACES WAR BE ADDRESS OF DUTIES AND ALL BE ADDRESS OF DUTIES AND ALL SUCH SMACES WAR BE ADDRESS OF DUTIES AND ALL BE ADDRESS OF DUTIES AND ALL SUCH SMACES WAR BE ADDRESS OF DUTIES AND ALL SUCH SMACES WAR BE ADDRESS OF DUTIES AND ALL BE ADDRESS OF DUTIES AND ALL SUCH SMACES WAR BE ADDRESS OF DUTIES AND ALL BE ADDRESS OF DUTIES AND ALL SUCH SMACES WAR BE ADDRESS OF DUTIES AND ALL BE ADDRESS OF DUTIES AND ALL SUCH SMACES WAR BE ADDRESS OF DUTIES AND ALL BE ADDRESS OF DUTIES AND ALL SUCH SMACES WAR BE ADDRESS OF DUTIES AND ALL BE ADDRESS OF DUTIES AND ALL SUCH SMACES WAR BE ADDRESS OF DUTIES AND ALL BE ADDRESS HANDRAL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASINE ELEMENTS AND SHALL HAVE ROUNDED EDGES. §118-505.8 ARCHITECT WINDUT DOGE TRATINENT, CHANGES IN LEVEL GREATER THAN & INCH AND NOT EXCEEDING & INCH IN HEIGHT SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 12. \$118-333, FIGURES 118-332, & 118-333. GARY W. & ASSOCIATES, I . HIGH SIDE REACH SHALL BE 46 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR OROUND WHERE THE HIGH SIDE REACH IS OVER AN OBSTRUCTION MORE THAN 10 INCHES BUT NOT MORE THAN 24 INCHES IN DEPTH B118-3003.2, FIDURE 119-3003.2 HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS, §118-505.9 SWINGING DOORS AND GATES SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 118-404.2.4.1. §118-404.2.4.1 CHANGES IN LEVEL GREATER THAN ½ INCH IN HEIGHT SHALL BE RAMPED AND SHALL COMPLY WITH THE REQUIREMENTS OF 118-405 RAMPS OR 118-406 CURB RAMPS AS APPLICABLE, §118-303 HANDRAL GRIPPING SURFACES SHALL EXTEND BEYOND AND IN THE SAME DIRECTION OF STAIR FLIGHTS / RAMP RUNS IN ACCORDANCE WITH SECTION 118-505.10 HANDRAL EXTENSIONS, \$118-505.10 RECORDERATION OF TIOPPIDU MINES ON TIPPIDU CARE MINES DE STRUCTURES (STUTUES) ON OTHER PRESENTING MINES AND ALARCHY SURVICES OF FAURIESS SHULL RE DOTATIO DE MANNES ON OTHER PRESENTING MINES AND ALARCHY SURVICES OF FAURIESS SHULL RE DOTATIO DE MANNES MINESSAN STITU A COLO REL CODITOR DE NOCES MINES MAN AND AND ALARCHY SURVICES OF RE SINNES OF THE MILL OR SOCIEMAL FREES RECURRENTES DO NOT APPLY BETHERI A MILL OR SOCIEMAL AND AN ALARCHY STREET ORDERVIS, 111-30-305. DOORWAYS LESS THAN 36 INCHES WIDE WITHOUT DOORS OR GATES, SLEING DOORS, OR FOLDING DOORS SHALL HAVE WANEUWERING CLEMANCES COMPLYING WITH TABLE 118-404.2.4.2. \$118-404.2.4.2 ACCESSIBLE PARKING SPACES COMPLYING WITH SECTION 118-502 PARKING SPACES SERVING A PARTICULAR BULDING OR FACULY SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL FROM ACADISM PARKING TO AN ACCESSIBLE DIRTANCE (AN IEAR AS PARTICAL TO AN ACCESSIBLE DIRTANCE). OBSTRUCTIONS FOR HIGH SIDE REACH SHALL NOT EXCEED 34 INCHES IN HEIGHT AND 24 INCHES IN DEPTH §118-308.3.2, FIGURE 118-308.3.2 RAMP HANDRALS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES MINNUM BEYOND TOP AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GAURD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRALL OF AN ADMACENT FAMILY RUN. 8119–805, 10.1 1255 Corporate Center Dr., PH 8 Monterey Park, CA 91754 TEL: (626) 288-6898 FAX: (626) http://www.garywang.com MANEWERING CLEARANCES FOR FORWARD APPROACH SHALL BE PROVIDED WHEN ANY OBSTRUCTION WITHIN 18 Inches of the latch sde an interior doorway, or within 24 inches of the latch sde of an Exterior doorway, projects wore than 8 inches before the face of the door, weasured preferencially to the face of the door or active \$184-04.2.4.3 PERABLE PARTS The top of a star rubit, indones shull be an advecting the rest rubit. Bit = 500.00.10.1 Af the top of a star rubit, indones shull be top an advecting the rubit rubit in the rubit rubit. Indone the rubit rubit indones shull be top advecting the rubit rubit. The rubit rubit is advecting rubit of rubit rub IN BUILDING WITH MULTIPLE ACCESSIBLE ENTRANCES WITH ADJACENT PARKING, ACCESSIBLE PARKING SPACES COMPLYING WITH SECTION 118-032 PARKING SPACES SHALL BE DISPERSED AND LOCATED CLOSEST TO THE ACCESSIBLE ENTRANCES, 8110-208.31 OPENABLE PARTS ON ACCESSIBLE ELEMENTS, ACCESSIBLE ROUTES, AND IN ACCESSIBLE ROOMS AND SP SHULL BE PROVIDED A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 118-305 CLEAR FLOOR OR GROUND SPACE AND BE FLOCED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN 118-308 REACH RANGES, §118-309.2 L FLOOR OR GROUND SURFACE WITHIN REQUIRED MANELVERING CLEARANCES SHALL COMPLY WITH118-302 FLOOR OR GROUND SURFACES. CHANGES IN LEVEL ARE NOT PERMITTED AT DOOR LANDINGS. URNING SPACE IN PARKING FACLITIES THAT DO NOT SERVE A PARTICULAR BULLING OR FACLITY, ACCESSIBLE PARKING SPACES COMPLYING WITH SECTION 118-502 PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL TO AN ACCESSIBLE PEDESTRIAN ENTRANCE OF THE PARKING FACLITY, B119-208...1 The time interval interval is the reaction of the scale of the scale of the scale of the state rule is the rule i Turning Spaces Shall meet the requirements of 110-302 Floor or ground surfaces except that changes in level are not fermitied. Turning Spaces Shall be ether circular or T-Shaped. Doors may simily into into turning Spaces 3110-304 STAM OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQURE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 . THRESHOLDS, IF PROVIDED AT DOORMAYS, SHALL BE (§ INCH HIGH MAXIMUM, RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORMAYS SHALL COMPLY WITH THE-302 FLOOR OR GROUND SUBFACES AND THE-303 CHANGES IN LEVEL 3110-404.25. CRCULAR TURNING SPACES SHALL BE A SPACE OF 60 INCHES DAMETER MINIMUM AND MAY INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 118-306 KNEE AND TOE CLEARANCE \$118-304.3.1 ELEMENTS THAT ARE EXEMPT FROM ALL REQUIREMENTS FOR OPERABLE PARTS REQUIREMENTS INCLUDE ELEMENTL, OR COMMANCIONIS RECEPTALIZES SEXUNDI A DEDICATED USE: FLOOR ELECTRICAL RECEPTALIZES, HANC DIFFUSERS, DERINGES MICHINES AND DERINGE EQUIPADIT AND THOSE OPERABLE PARTS INTENDED FOR USE CAN'L IN SERVICE OR MANTENINGE PERSONNEL \$118-205.1 ENTIAL FACILITIES: THE DISTANCE BETWEEN TWO HINGED OR PNOTED DOORS IN SERIES AND GATES IN SERIES SHALL BE 48 INCHES MINNUM PLUS THE WIDTH OF DOORS OR GATES SWINGING INTO THE SPACE. §118-404.2.6 T-SHAPED TURNING SPACES SHALL BE A T-SHAPED SPACE WITHIN A 60 NCH SQUARE MINIMUM WITH ARMS AND BASE 36 INCHES WIDE MINIMUM. EACH NEW OF THE T SHALL BE GLER OF OBSTRUCTIONS 12 NCHES MINIMUM IN EACH DIRECTION AND THE BASE SHALL BE CLERA OF OBSTRUCTIONS 24 INCHES MINIMUM. \$\frac{11B-304.32}{11B-304.32}, FOURE 11B-304.32 WHERE PARKING SPACES ARE MARKED WITH LINES, WIDTH NEASUREMENTS OF PARKING SPACES AND ACCESS ASLES SHALL BE MADE FROM THE CENTERLINE OF THE MARKINGS.] \$118-502.1 (SEE EXCEPTIONS) HNDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COM WITH 118-2084. OPERATION CAREARLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINUMAN INCHES MONIMAN ADAVE THE FILTER DATE (TACOR OR GROUND, MARTE SULTAND DOORS ARE IN THE FULLY DOSTION, OPERATING WARDWARE SHALL BE CAROSED AND USABLE FROM BOTH SUES, §119-404.2.7 PLUMBING FIXTURES AND FACILITIES EXCEPT FOR LIGHT SMITCHES, WHERE REDUNDANT CONTROLS ARE PROVIDED FOR A SINGLE ELEMENT, ONE CONTROL IN EACH SPACE SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 118-309 OPENABLE PARTS DIMENSION MINIMUM 18 FOOT LONG CAR AND VAN ACCESSIBLE PARKING SPACE(S) AND ACCESS AISLE(S). \$118-502.2, FIGURES 118-502.2 AND 118-502.3 NUMBER OF BUILDING T-SHAPED TURNING SPACES MAY INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 118-306 KNEE AND TOE CLEARANCE ONLY AT THE END OF EITHER THE BASE OR ONE ARM. §118-304.3.2 DIMENSION MINIMUM 9 FOOT WIDTH AT ACCESSIBLE CAR PARKING SPACE. \$118-502.2, FIG. 118-502.2 & FIG. 118-502.3 WERE TOLET FACILITES AND BATHING FACILITES ARE PROVIDED, THEY SHALL COMPLY WITH 118-213 TOLET FACULTES AND BATHING FACILITES. WERE TOLET FACILITES AND BATHING FACILITES AND BATHING FACILITES AND IN FALITIES FEMALTIDE IN 118-70632, UNLI-STORYE BALDINGS AND FACILITES AND AND TO COMPLET STORES OF IN ACCESSIBLE ROUT, TOLET FACILITES AND BATHING FACILITES SHALL PROVIDE ON A STORY COMPRETED BY AN ACCESSIBLE ROUT, TOLET FACILITES AND BATHING FACILITES SHALL ACCESSIBLE ROUTES 0. DOOR AND GATE CLOSING SPEED SHALL COMPLY WITH THE FOLLOWING: CLEAR FLOOR OR GROUND SPACE DIMENSION MINIMUM 12 FOOT WIDE ACCESSIBLE VAN PARKING SPACE WITH MINIMUM 5 FOOT WIDE ACCESS ASILE, WAN PARKING SPACES SHALL BE PERMITTED TO BE IMMAMIAN 9 FEET WIDE WHERE ACCESS ASILE IS FOOT WIDE MINIMUM, 8118-0322, FARKES 118-0322, AND 118-0323. HERE REQUIRED A DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEORRESS, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEOREES FROM THE LATCH IS : SECONDS MINUMA, 8119-404-28.1 CLEAR FLOOR OR GROUND SPACES SHALL MEET THE REQUIREMENTS OF 118-302 FLOOR OR GROUN SMRFACES AND SHALL NOT HAVE CHANGES IN LEVEL EXCEPT FOR SLOPES NOT STEEPER THAN 1:48 (20033), 9118-305 PROJECT NAME/ADDRES AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARSING SPACES AND ACCESSIBLE PASSINGER LOANING ZONES; PUBLIC STREETS AND SDEMAUKS; AND PUBLIC TRANSPORTATION STOPS TO THE ACCESSIBLE BULLORD OR FACULTY ENTRANCE THEY SERVE, WHERE WORE THAN ONE ROUTE IS PROVIDED, ALL ROUTES WUST BE ACCESSIBLE, \$118-206.2.1 (SE DECETTIONS) WHERE SEPARATE TOLET FACILITIES ARE PROVIDED FOR THE EXCLUSIVE USE OF SEPARATE USER GROUPS THE TOLET FACILITIES SERVING EACH USER GROUP SHALL COMPLY WITH 118-213 TOLET FACILITIES AND BATHING FACILITIES, \$111-213.1.1 CAR AND WIN STALL ACCESS AISLE SHALL BE 5 FOOT WEE MINIMUM AND SHALL ADJOIN AN ACCESSIBLE ROUTE. TWO PARSING SPACES SHALL BE PERMITTED TO SHARE A COMMON ACCESS MISLE \$118-502.3, FOURES 118-5022, AND 118-502.3 B. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGR THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM. §118-404.2.8.3 13. CLEAR FLOOR OR GROUND SPACE SHALL BE 30 INCHES MINIMUM BY 48 INCHES MINIMUM. \$118-305.3, FIGURE 118-305.3 Winchell AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE. §118-208.2.2 (SEE EXCEPTION) . THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER THAN FIRE DOORS SHALL BE AS FOLLOWS: \$118-404.2.9 WHERE TOLLET ROOMS ARE PROVIDED, EACH TOLLET ROOM SHALL COMPLY WITH 118-603 TOLLET AND BATHING ROOMS, WHERE BATHING ROOMS ARE PROVIDED, EACH BATHING ROOM SHALL COMPLY WITH 118-603 TOLLET AND BATHING ROOMS, §118-623 SEE EXCEPTIONS ACCESS AISLES SHALL EXTEND THE FULL REQUIRED LENGTH OF THE PARKING SPACES THEY SERVE. ONE FULL UNDESTRUCTED SDE OF THE CLEAR FLOOR OR GROUND SPACE SHALL ADJOIN AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER CLEAR FLOOR OR GROUND SPACE. \$118-305.6 UNEER TOLET ROOMS SHILL CONTRA INTO MEET THIN DE LUNITORY, AND NOT MARE THIN THO INTERE CONTRA INTO ANTER THIN DE LUNITORY, AND NOT MARE THIN THO INTERE CONTRA DE SONTA DE LUNITORY, AND NOT MARE THIN THO INTERE CONTRA DE LUNITORY, AND NOT ANTER THIS AND ANTER THE ANTER THE ANTER DOORS TO LUNIESE TOLET ROOMS AND LINESE BATHING ROOMS SHALL HAVE PRIMACE LATORS. COST. DOORS TO LUNIESE TOLET ROOMS AND LINESE BATHING ROOMS SHALL HAVE PRIMACE LATORS. A INTERIOR HINGED DOORS AND GATES: 5 POUNDS MAXIMUM. A DISCUSSION AND A DISC CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR EITHER FORWARD OR PARALLEL APPROACH AN ELEMENT UNLESS OTHERWISE SPECIFIED. §118-305.5, FIGURE 118-305.5 AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT EACH STORY AND MEZZANNE IN MULTI-STORY BULDINGS AND FACULTIES. §118-206.2.3 (SEE EXCEPTIONS) B. SLIDING OR FOLDING DOORS: 5 POUNDS MAXIMUM. 21960 ALESSANDRO BLY C. REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS. CLEAR FLOOR OR GROUND SPACE MAY INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 118-306 KNEE AND TOE CLEARANCE UNLESS OTHERWISE SPECIFIED. §118-305.4 IN ALTERATIONS AND ADDITIONS, WHERE AN ESCALATOR OR STAR IS PROVIDED WHERE NONE EXSTED PREVIOUSLY AND MARCR STRUCTURAL MODIFICATIONS ARE NECESSARY FOR THE INSTALLATION, AN ACCESSIBLE ROUTE SHALL BE PROVIDED BETWEEN THE LEVELS SERVED BY THE ESCALATOR OR STAR B/110-2062.2.1 (SEE DICEPTIONS) MORENO VALLEY, CA 92: ACCESS AISLE D. EXTERIOR HINGED DOORS: 5 POUNDS MAXIMUM ALCOVES SHALL BE 36 INCHES WIDE MINIUM IF THEIR DEPTH EXCEEDS 24 INCHES AND THEY PROVIDE CLEAR FLOOR OR GROUND SPACE FOR A FORWARD APPROACH. 8118–305.7. FIGURE 118–305.7.1 PLUMBING FICTURES AND ACCESSORIES PROVIDED IN A TOLLET ROOM OR BATHING ROOM REQUIRED TO COMPLY WITH 118-213.2 TOLLET AND BATHING ROOMS SHALL COMPLY WITH 118-213.3 PLUMBING FIX AND ACCESSORIES \$119-213.3 Shinging door and one surfaces within 10 inches of the Finish Floor or ordinad macaured verticulus sull, have a suboth surface on the push side catending the fill, within 0° the lock or grate pushs compare advance on the push side intervals sull, we have 1/16 inch of the sube pushe is the other and if pushes or advance does contents excented by account Kork Pushes Sull, the Catendar Decal, contents on advance does contents increased by the Catendar does be content and the Catendar Substance filling the Catendar Subst AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS WITHIN THE BALDING OR FACILITY, INCLURING MEZZANNES, WHICH ARE OTHERMISE CONNECTED BY A COLUMIATION RATH. 1910-2023.4 (SEE EXCEPTIONS) ACCESS ASLES SHALL NOT OVERLAP THE VEHICULAR WAY, ACCESS ASLES SHALL BE PERMITTED TO BE PAADD ON DITHER SDE OF THE PARING SPACE EXCEPT FOR WAN PARKING SPACES INFORM SHALL BAY ACCESS ASLES LOATED ON THE PASSINGER SPACE OF THE PARKING SPACES INFORM-SCALES. ISSUE DATE: ALCOVES SHALL BE 60 INCHES WIDE MINIMUM IF THEIR DEPTH EXCEEDS 15 INCHES AND THEY PROVIDE CLEAR FLOOR OR GROUND SPACE FOR A PARALLEL APPROACH. §118-305.7, FIGURE 118-305.7.2 1ST 040114 - 1ST SUB TO PLANNIN DOOR SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FICTURE. OTHER THAN THE DOOR TO THE ACCESSIBLE WATER CLOSET COMPARTMENT, A DOOR IN ANY POSITION, DERORACH INTO THE TURNING SPACE BY 12 INCHES MANAULA \$110-603.23 2ND 090914 - REVISION ACCESSEE FORCES SHUL CONCIDE WITH OR BE LOCATED IN THE SME AREA AS GIDERAL CRICILAL PATHS, WHERE CRICILIATION PATHS MER INTEROR, RECUREN ACCESSEE ROUTIS SHULL ALSID ER WI AL ACCESSEEL FOULTE SHULL OF MENS THROUGH INTERNS, STORATE GONGS, RESTINGUAS, RECUSSE OTHER SPACES USED FOR SMILLAR PURPOSES, DUCEPT AS PERMITTED BY CHAPTER 10. \$118-206.3 3RD 100314 - 2ND SUBMITTAL PARIONG SPACES AND ACCESS ASILES SERVING THEM SHALL COMPLY WITH SECTION 118-302 FLOOR OR GROUND SURFACES. ACCESS ASILES SHALL BE AT THE SWAE LEVEL AS THE PARKING SPACES THEY SERVE CHANGES IN LEVEL ARE NOT PERMITTED, 811-8624. KNEE AND TOE CLEARANCE SND 100314 = 2ND SUBMITAL 4TH 100116 - SRD SUBMITAL 5TH 042117 - 4TH SUBMITAL 6TH 061617 - 5TH SUBMITAL DOORS, GATES, AND SIDE LIGHTS ADJACENT TO DOORS OR GATES, CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VENING THEORAGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE GLAZED PANEL LICATEM 43 INCHES MUSILIMA AROVE THE PINISH FLOOR \$118-402.11 FOR LAWITORES AND BUILT-IN DINING AND WORK SURFACES REQUIRED TO BE ACCESSIBLE, TOE CLEARINGE SHALL BE PROVIDED THAT IS 30 INOIES IN WOTH AND 9 INCRES IN HEIGHT ABOVE THE FINISH FLOOR OR GROUND FOR A DEPTH OF 19 INCRES INMUNUL \$118-306.2.1 AT SINGLE USER TOILET OR BATHING ROOMS, DOORS SHULL BE PERMITTED TO SWING INTO THE CLEAR FLOOR SMACE OR CLEARANCE REQUIRED FOR ANY TIKTURE ONLY IF A 30 INCH BY AB INCH MINMUM CLEAR FLOOR SMACE IS PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING. §118-603.2.3 EXCEPTION CLEARLY SHOW MINIMUM VERTICAL CLEARANCE OF 8 FEET 2 INCHES AT ACCESSIBLE PARKING SPACES AN ALONG AT LEAST ONE VEHICLE ACCESS ROUTE TO SUCH SPACES FROM STIE ENTRANCES AND EXITS. IN RESTAURANTS, CAFETERAS, BANQUET FACULTES, BARS, AND SIMILAR FACULTES, AN ACCESSIBLE ROUTE SHALL BE PROVIDED TO ALL FUNCTIONAL AREAS, INCLUDING RAISED OR SUMKEN AREAS, AND OUTDOOR AREAS \$119.002.5 20. FOR ELEVENTS REQUIRED TO PROVIDE TOE CLEARANCE OTHER THAN LANTIDRES AND BULT-IN DINNE A WORK SURFACES, TOE CLEARANCE SHALL BE PROVIDED THAT IS 30 INCHES IN WORT AND 9 INCHES IN HEIGHT ABOVE THE PINSH FLOOR OR GROUND FOR A DEPTH OF 17 INCHES INNIMAN UNDER ELEVENTS REQUIRED TO BE ACCESSIBLE \$115-306.2.3 FULL-POWERED AUTOMATIC DOORS SHALL COMPLY WITH ANSI/BHAA A156.10. LOW-ENERGY AND POWER-ASSISTED DOORS SHALL COMPLY WITH ANSI/BHAA A156.19. AUTOMATIC DOORS AND AUTOMATIC GATES SHALL COMPLY WITH THE FOLLOWING: \$1018-004.3 7TH 083017 - 6TH SUBMITTAL MARKORS LOCATED ABOVE THE LAWATORES OR COUNTERTOPS SHALL BE INSTALLED WITHIN THE BOTT EDDE OF THE REFLECTING SURVICE 40 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUDA. BOTT LOCATED ADDR THE LIMATORES OR COUNTERTOPS SHALL BE INSTLUED WITH THE BOTTOM EDI THE REFLECTING SURFACE 35 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUDA, §118-403.3 ATH 092917 - 8TH SUBMITTAL COMMON USE CIRCULATION PATHS WITHIN EMPLOYEE WORK AREAS SHALL COMPLY WITH 118-402 ACCESSIBLE ROUTES, \$118-206.2.8 (SEE EXCEPTIONS) DOORWAYS SHALL PROVIDE A CLEAR OPENING OF 32 INCHES MINIMAM IN POMER-ON AND POMER-OFF MODE. THE MINIMA CLEAR WIDTH FOR AUTOMATIC DOOR SYSTEMS IN A DOORMMY SHALL PROVIDE A CLEAR, UNDESTRUCTED OPENING OF 32 INCHES WITH ONE LEAF POSITIONED AT AN ANGLE OF 80 DEGREES FROM TIS CLOSED FORTION, \$118-40-43.1 PARKING SPACE IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) COMPLYING WITH SECTION 118-703.7.2.1 ISA, \$118-502.6, FIGURE 118-703.7.2.1 SPACE EXTENDING GREATER THAN 6 INCHES BEYOND THE AVAILABLE KINEE CLEARINGE AT 9 INCHES ABOVE THE FINSH FLOOR OR GROUND SHALL NOT BE CONSIDERED TOE CLEARINGE. §118-308.2.4 NTRANCES COAT HOOKS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN SECTION 118-308. SHELVES SHALL BE LOCATED 40 INCHES INNIAMA MAD 48 INCHES MAXIMAN ABOVE THE FINISH FLOOR. REDCINC, CARRENTS SHALL BE LOCATED WITH A LISABLE SHELF NO HIGHER THAN 44 INCHES MAXIMAN ABOVE THE FINISH FLOOR. §118-603.4 SIGNS IDENTIFYING WIN PARKING SPACES SHALL CONTAIN ADDITIONAL LANGUAGE OR AN ADDITIONAL SIGN WITH THE DESIGNATION "ANN ACCESSIBLE" STANS SHALL BE 60 INCHES MINIMUM ABOVE THE FINISH FLOO OR GROUND SUFFACE MEASURED TO THE BOTTOM OF THE SON, \$1118-502.6 Clarences at Poiner-Assisted dors and gates shill compy with 118-404.24 wavelarding clarences. Clarences at Automatic dors and gates without stindey poiner and service accesses. Wang of Edress Shill Compy with 118-404.24 wavelaring clarences. 118-404.24 wavelaring clarences. TOE CLEARANCE SHALL EXTEND 19 INCHES MAXIMUM UNDER LAWATORIES FOR TOILET AND BATHING FACILITIES AND 25 INCHES MAXIMUM UNDER OTHER ELEMENTS. §110-306.2.2 (TRANCES SHALL BE PROVIDED IN ACCORDANCE WITH 118-206.4 ENTRANCES, ENTRANCE DOORS, DORMAYS, AND GATES SHALL COMPLY WITH 118-404 DOORS, DOORMAYS, AND GATES AND SHALL BE ON A ACCESSIBLE ROUTE COMPLYING WITH 118-405 ACCESSIBLE ROUTES; (SEE ENCORTONS), \$119-206.4 PARING IDENTIFICATION SIGNS SHALL BE REFLECTORIZED WITH A MINIMUM AREA OF 70 SQUARE INCHES. \$118-502.6.1 INFERE TOWEL OR SANITARY MAPKIN DISPENSERS, WASTE RECEPTIALES, OR OTHER ACCESSORE PROVIDED IN TOILET FACILITES, AT LEAST ONE OF EACH TYPE SHALL BE LOCATED ON AN ACCE ROUTE ALL OPERAGE PARTS, INCLUDING CON SLOTS, SHALL BE 40 INCHES MAXIMUM ABOVE FLOOR, 8119-003.5 ALL ENTRANCES AND EXTERIOR GROUND-FLOOR EXITS TO BUILDINGS AND FACILITIES SHALL COMPLY WITH 118-404 DOORS, DOORWAYS, AND GATES. §118-206.4.1 . THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH 118-404.2.5 THRESHOLDS. \$118-404.3.3 ADDITIONAL LANGUAGE OF AN ADDITIONAL SION BELOW THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL STATE "MINIMUM FINE \$250." \$118-502.6.2 WHERE DIRECT ACCESS IS PROVIDED FOR PEDESTRIANS FROM A PARKING STRUCTURE TO A BUILDING OR FACILITY ENTRANCE, EACH DIRECT ACCESS TO THE BUILDING OR FACILITY ENTRANCE SHALL COMPLY WITH 118-404.42 The WHILE CLARE SHALL BE GROUPED WIT A WALL OF PARTING TO THE SUM AND TO CASE SHOWN THE OTHER SHALL AND A STATEMENT OF THE SUM AND THE STATEMENT OF THE SUM AND THE STATEMENT OF THE SUM AND THE STATEMENT OF STATEMENT A PARONG SPACE DENTFICATION SION SHALL BE VISIBLE FROM EACH PARONG SPACE. SIONS SHALL BE PERMANDATLY POSTED GTHER MAREDATLY ADJACCOM TO THE PARANG SPACE ON UTHAN THE PROJECTED PARONG SPACE WITHAN THE PROJECTED DATA THE INTEGRA DO OT THE PARANG SPACE AND ALSO BE PERMANENTLY POSTED ON A WALL AT THE INTEGRA DO OT THE PARANG SPACE. 410-502.8.3D. DOORS IN SERIES AND GATES IN SERIES SHALL COMPLY WITH 118-404.2.6 DOORS IN SERIES AND GATES IN SERIES. §118-404.3 JOB NUMBER 4. AT DINING AND WORK SURFACES REQUIRED TO BE ACCESSIBLE, KNEE CLEARANCE SHALL BE PROVIDED TH IS 30 INCHES IN WIDTH AT 27 INCHES ABOVE THE FINISH FLOOR OR GROUND FOR A DEPTH OF AT LEAST EXCEPT SELF-SERVICE STORAGE FACILITIES, ALL ENTRANCES TO EACH TENANCY IN A FACILITY SHALL COMPLY WITH 118-404 DOORS, DOORMANS, AND GATES. §18-208.4.5 MANUALLY OPERATED CONTROLS SHULL COMPLY WITH 118-309 OPERABLE PARTS. THE CLEAR FLOOR SP. ADJACENT TO THE CONTROL SHALL BE LOCATED BEYOND THE ARC OF THE DOOR SMING. §118-404.3.5 19 INCHES. §118-306.3 ARCH PROJECT # 14-074 25. FOR ELEVEN'S REQUIRED TO PROVIDE KNEE CLEARANCE EXCEPT LAWATORES IN TOLET AND BATHI FACILITIES AND DINNO AND WORK SURFACES, KNEE CLEARANCE SHALL BE PROVIDED THAT IS 30 III WOTH FOR A LEPTH OF 11 INCHES AT 9 INCHES ABOVE THE FINISH FLOOR OR GROUND AND FOR DEPTH OF 8 INCHES AT 27 INCHES ABOVE THE FINISH FLOOR OR GROUND, \$115-0502, FILLER HNICAL REQUIREMENTS FOR ACCESSIBLE ROUTES EACH ACCESSIBLE CAR AND WAN SPACE SHALL HAVE SURFACE IDENTIFICATION COMPLYING WITH EITHER OF THE FOLLOWING SCHEMES: \$118-502.8.4 WHERE DOORS AND GATES WITHOUT STANDBY POWER ARE A PART OF A MEANS OF EGRESS, THE CLEAR BREAK OUT OPENING AT SWINGING OR SUDING DOORS AND GATES SHALL BE 32 INCHES MINIMUM WHEN OPERATED INS DIRRECKY OWNER, \$118-40-3...\$clearnice around a water closet shall be 60 inches minnum measured perpendicular from Side Wall and 56 inches minnum measured perpendicular rrom the Rear Wall a minnum 60 Niches Wide And 64 inches deite Marineren Space Shall be provided in ront of the water ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A RUNNING SLOPE NOT STEEPER THAN 1/20 (13%), DOORMAYS, RAWES, CLURB RAMEPS EXCLUDING THE FURCED SDEES, ELEWATORS, MAD PLATIFORM LIFTS, 8/18-40-22. THE FLANMARY SAMELES BULL BE MARKED WITH AN INTERNATIONAL SINGLE OF ACCESSIBILITY (SA) COMPLY WITH SECTION 118-703.7.2.1 BAN INTERNATIONAL SINGLE A MANAGAN OF ANCESSIBLE THE CONTENT OF A MARKET MARK THE CONTENTION OF THE MARKET AND A MARKET AND A MARKET AND A MARKET AND A THE CONTENTION OF THE MARKET AND A MARKET AND A MARKET AND A CORMER AT, OR LOBER SEE ALDRED WITH, THE DED OF THE PARKING SPACE LIDDITA, §118-502.6.4.1 DRAWN BY 118-306.3(A) G. REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES SHALL NOT BE PART OF AN ACCESSIBLE ROUTE. §118-404.3.7 CLOSET. \$118-604.3.1 AD,GC,& CL THE SATI HEGHT OF A WHER CLOSET ABOVE THE FINSH FLOOR SHALL BE 17 INCHES MINIMUM AND INCHES MANNUM MISSIRED TO THE TOP OF THE SATI. SATIS SHALL NOT BE SPRING THE RETURN T UTET POSTION. SATIS SHALL BE 2 NOTES HIGH MANNAM NON A 3 NOT HIGH SATIS SHALL PEDMITED OKK IN ALTERNIONS MERIE THE EXISTING FUTURE IS LESS THMI 15 INCHES HIGH. EXCEPT FOR DINING AND WORK SURFACES, KNEE CLEARANCE MAY REDUCE AT A RATE OF 1 INCH IN DEPT FOR EACH 6 INCHES BETWEEN 9 INCHES AND 27 INCHES ABOVE THE FINISH FLOOR OR GROUND. 8118-3063.4, FOURE FILE-306.3 THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20 (53), THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48 (2.083%), \$11B-403.3 SHEET CONTENT EXCEPT AT TURNS OR PASSING SPACES, THE CLEAR WIDTH OF WALKING SURFACES SHALL BE 36 INCHES MINNULL \$118-403.5.1 The PARKING STATUS AND ADDRESS OF MATTER SELECTION THE ADDRESS 5. PROVIDE RAMP DETAILS, INCLUDING SLOPE, LANDINGS, AND HANDRAILS 27. KNEE CLEARANCE SHALL EXTEND 25 INCHES MAXIMUM UNDER AN ELEMENT AT 9 INCHES ABOVE THE FINS ACCESSIBILITY NOTI VIIDEMONY QUE LANGE MEL THE NUMBER OF THE DESCRIPTION OF THE REFERENCE OF THE WATER CLOSET AND ON THE REFE WALL WHERE SEMARTE CARE HAVE NOT HERE RESULTED ON ADJCHT WALLS AT A COMMON MOINTING HERMA AL I-SOMPTO RAVE BARE MERTING THE DIMENSION, RECORDERING IS SECTIONS 118-604.5.1 SDE WALL AND 118-604.5.2 REAR WALL SHALL BE PERMITED. \$118-604.5. THE CLEAR WIDTH SHALL BE PERMITTED TO BE REDUCED TO 32 INCHES MINIAUM FOR A LENGTH OF 24 INCHES MAXIMUM PROVIDED THAT REDUCED WIDTH SEGMENTS THAT ARE SEPARATED BY SEGMENTS THAT ARE 48 INCHES LONG WINNIUM AND SI INCHES WIDE UNMIAUM (\$115-403.5.1 EXCEPTION 1 . RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12 (8.33%). \$118-405.2 PROTRUDING OBJECTS CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 1:48 (2.083%). \$118-405.3 EXCEPT FOR HANDRALS, OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES AND LESS THAN 80 INCHES ABOVE THE FINGH FLOOR OR ORUMD SHALL PROTINGE NO MORE THAN 4 INCHES MORECONTALLY INTO THE CIRCULATION FAITH. INMENUS WIN FORMOLE \$\(\) NOTES WARDING, \$\(\) INCHES 5072, FIGURE 118-5072, FIGURE 118-5072, FIGURE 118-5072, FLOOR OR GROUND SURFACES OF RAMP RUNS SHALL COMPLY WITH 118-302 FLOOR OR GROUND SURFACES. CHARGES IN LEVEL OTHER THAN THE RUNNING SLOPE AND CROSS SLOPE ARE NOT PERMITTED ON RAMP RULE, \$119-403. THE CLEAR WIDTH FOR WALKING SURFACES IN CORRIDORS SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL BE 44 INCHES MINIMUM. \$118-403.5.1 EXCEPTION 2 23. AN ADDITIONAL SIGN SHALL BE POSTED ETHER: 1) IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO AN THE SIDE WALL GRAB BARS SHALL BE 42 INCHES LONG MINIMUM, LOCATED 12 INCHES MAXIMUM FROM REAR WALL AND EXTENDING 54 INCHES MINIMUM FROM THE REAR WALL WITH THE FROMT END POSITION 24 INCHES MINIMUM IN FROMT FOR THE WAREP COSET, 8118-6465.1 OFF-STREET PARKING FACULTY OR 2) IMMEDIATELY ADJACENT TO ON-STE ACCESSIBLE PA FROM EACH PARKING SPACE, \$118-502.8 FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS SHALL OVERHANG CIRCULATION PATHS NO MORE THAN 12 INCHES WHEN LICCATED FROM 27 TO 80 INCHES ABOVE THE FINISH FLOOR OR GROUND. \$118-937, JRURE 118-937-3(A) THE CLEAR WIDTH FOR SIDEMALKS AND WALKS SHALL BE 48 INCHES MINIMUM. \$118-403.5.1 EXCEPTION 9. THE CLEAR WIDTH OF A RAMP RUN SHALL BE 48 INCHES MINIMUM. \$118-405.5 G-11(A. THE ADDITIONAL SIGN SHALL NOT BE LESS THAN 17 INCHES WIDE BY 22 INCHES HIGH, \$118-502.8.1 . THE REAR GRAB BAR SHALL BE 36 INCHES LONG MINIMUM AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES MINIMUM ON ONE SIDE AND 24 INCHES MINIMUM ON THE OTHER SIDE. (118-604-522 (SEE EXCEPTIONS) 19. THE CLEAR WIDTH FOR ASLES SHALL BE 36 INCHES MINIMUM IF SERVING ELEMENTS ON ONLY ONE SIDE, 50. THE RISE FOR ANY RAMP RUN SHALL BE 30 INCHES MAXIMUM, \$118-405.6 B. THE ADDITIONAL SIGN SHALL CLEARLY STATE IN LETTERS WITH A MINIMUM HEIGHT OF 1 INCH THE FOLLOWING: §118-502.8.2 20. WHERE THE ACCESSIBLE ROUTE MAKES A 180 DEDREE TURN AROUND AN ELEMENT WHICH IS LESS THAN 4 INCHES WOE, CLEAR WIDTH SHALL BE 42 INCHES MINIMUM APPROACHING THE TURN, 48 INCHES MINIMUM AT THE TURN AND 42 INCHES MINIMUM LAYMON THE TURN, 9118–903.52 PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH REQUIRED FOR ACCESSIBLE ROUTES. 8118-307.5 51. RAMPS SHALL HAVE LANDINGS AT THE TOP AND THE BOTTOM OF EACH RAMP RUN. \$118-405.7 "UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARD

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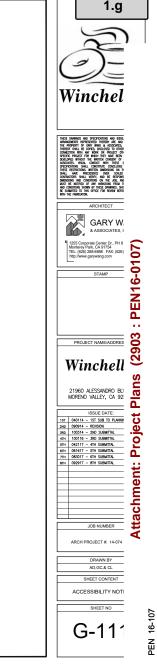
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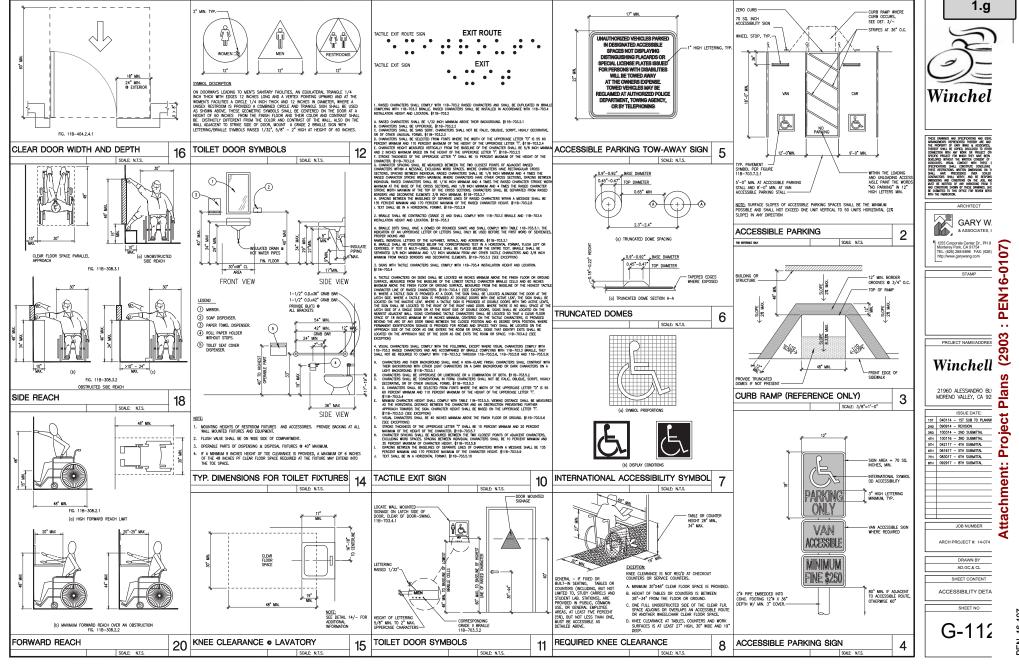
ACCESSIBILITY REQUIREMENTS CONT.

- RUSH CONTROLS SHALL BE HAD OPERATED OR AUTOMATIC. HAND OPERATED RUSH CONTROLS SHALL CAMPLY WITH SECTION 118-3004 OPERATION RECEPT THEY SHALL BE LOCATED 44 RACES MAXMAM AGAY THE RUGA, LUSH CONTROLS SHALL BE LOCATED ON THE OPEN SEC OF THE MATTER LOSE DECEYT IN AMELIATORY ACCESSING COMPYRIANTS COMPYRIANT SCHOOL 118-604.82 AMELIATOR ACCESSING COMPARISTS, STITU-044
- TOLET PAPER DESPENSES SAVLL COMPLY WITH SECTION 118-304.4 OPERATION AND SAVLL BE 7 INCHES MINIMA MAD 5 INCHES MAXIMA IN FRONT OFTIGE WITHS CLOSET MEXANED TO THE CONTENES OF MINIMA MAD 5 INCHES MAXIMA IN FRONT OFTIGE WITHS CLOSET MEXANED TO THE CONTENES OF MINIMA AND 5 INCHES MAXIMA IN FRONT OFTIGE WITHS CLOSET MEXANED TO THE CONTENES MINIMA MAD 5 INCHES MAXIMA IN FRONT OFTIGE WITH CONTENES AND ALL MOT DEC THE FIRST FLOOR AND SALL AND THE LOCATE MEXANED THE CANA BABS CAPTERIES SAVLL NOT BE OFTIGE THE THAT CONTROL DELARMY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOM. 8119-040.7
- WEDGWR ACCESSIE DIT GWAMMDIS SHU HET TE REQUERENT OF SETTIN 118-04-04-18 WEEDGWR ACCESSIE COMMENDER WIT THE PLAN OF TOM SETTIN 118-04-04-19 WEEDGWR ACCESSIE COMMENDER WIT THE PLAN OF TOM SETTIN 118-04-04-28 WIELIGER KOOKS MELIUREN COSSIE COMPARINENT SHU LOWN'S MODI HI-003 118-04-04-28 WIELIGER ACCESSIE COMPARINENT SHU LOWN'S MOD SHELTS. 118-04-04-28 WIELIGER ACCESSIE COMPARINENT SHU LOWN'S MOD SHELTS.
- WERLOWR COSSIBLE COMPARITIONS SHALL BE KO NOHIS WEE MINNAM MUSIARE PERPENDICULA TO THE SEE WALL, MO SE NOHIS DEP MINNAM FOR NULL HAVA WATR COLORS MO SH WORSE WERLOWR COSSIBLE COMPARITIONS TO COLORDON SUS SHALL BE KO NOHIS WEE MINNAM MUSIARE DEPENDICULAR TO THE SEE WALL AND SH MICH SEE WANNAM TOR WALL HAVA AND COM MUNITY WARTER COLORS MUSIARED PERSIDICULAR TO THE REW MULL BHOL MUSIARED PERSONALINE COLORS MUSIARED PERSONALINE AT THE REW MULL HAVA AND COM MUNITY WARTER COLORS MUSIARED PERSONALINE AT THE REW MULL BHOL AND
- IN A WHELICHUR ACCESSIBLE COMPARTMENT WITH AN IN-SWING DOOR, A UNNAUU 60 INCHES WIDE BY 36 INCHES JEEP HAMELVERING SPACE SHULL EF PROVIDED IN FRONT OF THE CLEARANCE REQURED IN SECTION 119-604.A.1.1 WHELICHUR ACCESSIBLE COMPARTMENT SZE. §118-604.A.1.1.2, FOURES 118-604.A.1.1.2(9) AND 118-604.A.1.1.2(8)
- IN A WHEELCHAIR ACCESSIBLE COMPARTMENT WITH A SIDE-OPENING DOOR, DITHER IN-SWINZING OR Out-Swincing, a minimum 60 inches wide and 60 inches deep mane/vering space sinul be provided in front of the water closet, Bith=604.81.1.2, roker 116-604.81.1.2
- IN A WHEEL CHAR ACCESSIBLE COMPARTMENT WITH END-OPPINING DOOR (FACING WATER CLOSET), DITHER IN-SWINDANG OR OUT-SWINCHING, A WANNAM GO INCHES WIDE AND 48 INCHES DEEP MANEUMERNIG SPACE SHALL DE FRONDED IN FRONT OF THE WATER COSTS. 8118-604.81.1.3, FOUR # 118-604.81.1.3
- SINCL BE THONISUS IN THIM OF THE MUSTIC LODGE. INTERMOLECTLA, TANKE (STRANDALLIC) TOLE COMPARISON, TOLES TOLED THAT IT THE APPROACE IS THAT THE FASS HERE (STRANDALLIC) DODINGS, AND DIES DOCTI THAT IT THE APPROACE IS THAT THE FASS HERE OF THE COMPARISON THAT IS AND ADDING TO ADDING THAT IT THE APPROACE IS THAT THE FASS HERE (STRANDALLIC) THAT IS AND ADDING TO ADDING THAT IS AND ADDING THAT THAT IS AND ADDING THAT IS AND ADDING THAT IS AND ADDING THAT IS AND ADDING STRANDAL CONTROL THAT ADDING THAT IS AND ADDING THAT THAT IS AND SALL BE LOADED THAT ADDING THAT IS AND ADDING THAT THAT IS AND ADDING THAT ADDING THAT ADDING THAT IS AND ADDING THAT THAT IS AND ADDING THAT ADDING THAT ADDING THAT ADDING THAT ADDING THAT ADDING SALL BE LOADED THAT ADDING THAT ADDING THAT ADDING THAT ADDING SALL BE LOADED THAT ADDING THAT ADDING THAT ADDING THAT ADDING SALL BE LOADED THAT ADDING THAT ADDING THAT ADDING THAT ADDING SALL BE LOADED THAT ADDING THAT ADDING THAT ADDING THAT ADDING THAT ADDING SALL BE LOADED THAT ADDING THE SEE MALL OF ANY THAT ADDING THAT ADDING SALL BE LOADED THAT ADDING THAT ADDING THAT ADDING THAT ADDING THAT ADDING SALL BE LOADED THAT ADDING THAT ADDING THAT ADDING THAT ADDING THAT ADDING SALL BE LOADED THAT ADDING SALL BE LOADED THAT ADDING THAT ADDI
- where tolet compariment doors are located in the front partition, the door opening shall be 4 inches waxiam from the sole wall ar partition farthest from the bucker autor closet. Where located in the sole wall, or partition, the door doorning shall be a known and inches maximum from the fromt partition and the door shall be self-closing. §119-604.8.1.2
- A DOOR PULL COMPLYING WITH SECTION 118-604.27 DOOR AND GATE HARDWARE SHALL BE PLACED ON BOTH SIDES OF THE DOOR HORM THE LATIOL BOOR SHALL NOT SWALD NOT THE CLORE RLORE SPACE OR CLEMENCE REDURATION OF MAY TRAVEL BOOKS MAY SMALD NOT SHALD NOT THE CLORE REDURATED SPACE WHO! DOOS NOT OVERLAP THE CLEMENCE HEDWIRED AT A WHER CLOSET, \$118-604.8.12 (SEE DOORTION)
- AT LEAST ONE SEE PARTITION SMALL PROMIDE A TOE CLEARANCE OF 9 INCHES MINIMUM ABOVE THE FIRSH FLOOR AND 6 ACKES EEDER MINIMUM BEROND THE COMMARTIBUE-SEE FACE OF THE PARTITION EDUCISING OF MANDING SAMONT MANDERS, PARTITION COMMONSTI AT TOE CLEARANCES SMALL BE SMOOTH MITHOUT SAMONT EMPORES, MARKING SAMONTARIST FOR CHEAREN'S DUE SHALL PROVIDE A TOE CLARANCE OF 12 INCHES MINIMUM ADOUT HE FORST FOR CHEAREN'S DUE SHALL PROVIDE A TOE CLARANCE OF 12 INCHES MINIMUM ADOUT HE FORST FOR CHEAREN'S DUE SHALL
- THORE A ILL LUDINGLE VI LI INICIA SMIRON ROLE DE TRADICIO DI LI PLODALLA NORE MES SULL CANTONE UNI LE ROVORED NO SULL EL COMELTO UNI EL MUL CODET SECTION IN 16-404.1 SER MUL SULLE ROVORED NO SULL EL COMELTO UNI EL MUL CODET NUL SULLE ROVORED NOL SULLE ROVORED NO SULLE LO MULTO UNI EL MUL CODET NUL SULLE ROVORED NEL SULLE ROVORED NO SULLE LO MULTO NUL CODET NUL SULLE ROVORED NEL SULLE ROVORED NOL SULLE AL MULTO SULLE SA COMENN AUGUNTOS INFERIES SUPERIO GOS MENSA RE COMENSION ANACOM MULTO SULLE A SECTION 111-06-05.1 SER MULTO DI LI DOVERD NOL EL PONDETIDO NULLE A AL
- URINALS SHALL BE THE STALL-TYPE OR THE WALL-HUNG TYPE WITH THE RIN 17 INCHES MAXIMUM ABOVE THE RINGH FLOOR OR RODUND. URINALS SHALL BE 13% INCHES DEEP IMMIMUM WERSURED FROM THE OUTER FACE OF THE URINAL MAN TO THE BACK OF THE FORTHER \$10H-603.
- A CLEAR FLOOR SPACE OR GROUND SPACE COMPLYING WITH SECTION 118-305 CLEAR FLOOR OR GROUND SPACE POSITIONED FOR FORWARD APPROACH SHALL BE PROVIDED. \$118-605.3
- Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with section 118-309 operated parts except that the flush control shall be mounted at a maximum hereit of 44 inces above the finish floor, 8110-803.
- LAWTORES AND SINKS SHALL COMPLY WITH SECTION 118-606 LAWTORES AND SINKS \$118-606 1
- FOR LAWTORES AND SINKS, A CLEAR FLOOR SPACE COMPLYING WITH SECTION 118-305 CLEAR FLOOR OR GROUND SURFACES, POSITIONED FOR A FORWARD APPROACH, AND KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 118-306 KNEE AND TOE CLEARANCE SHALL BE PROVIDED, BITH =006,2
- GRAB BARS GRAB BARS WITH CRCULAR CRCSS SECTION IN TOILET FACUTIES AND BATHING FACULTIES SHALL HAVE AN OUTSIDE DIAMETER OF 1% INCHES MINIMUM AND 2 INCHES MAXIMUM. §118-60R.2.1
- grab bars with non-circular cross sections shall have a cross-section dimension of 2 inches modulin and a permeter dimension of 4 inches minimum and 4.8 inches modulin. $^{8}119-603.2$
- SPACE BETWEEN THE WALL AND THE GRAB BAR SANLI BE 1½ INCHES. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE DIGS SHALL BE 1½ INCHES MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES MINIMUM. \$119-603.3
- CARE BARS SHUL ER INSTALLD IN A HORIZONTA, PODTON, 33 INDIES MINNAM AND 36 INDIES MANNAM ANDE TE FREIN AUDER MEDIATED ID IE TO TO TE GARRYAD SIRVAZ, DIEDT TANL TANLEN ANDE TE FREIN AUDER MEDIATED ID IE TO TO TE GARRYAD SIRVAZ, DIEDT TANL TANLEN ANDE TE FREIN AUDER MEDIATED ID IE TO TO TE GARRYAD SIRVAZ, DIEDT TANL TANLEN ANDE TE GARRYA SILVANIA MEDIATE DE TANLEN ANDE TE TANLEN ANDE TE NORES MINNAM AND 27 NOES MANNAM AROVE THE TINGEN ALDOR MASARED TO THE TOP OF THE ROPPING SIRVAZ, SILVANIA
- DICOTT BULCHND DRECTORES, MENUS, SOT AND REW RESOLUTIONE IN ASSUMEY APON, OCCUPANT NMES, BULCHND ADDRESSE, AND COMPANY NMES AND LODGS, NOY CP ATISTED SORS SHUL BE PROVED IN ACCOUNT BUT 110-126 ISSA AND SHUL CONTY NIMIT 116-70. SINS, THE ADDI OF OR REPLACEMENT OF SORS SHUL NOT TROSER ANY ADDITIONAL PARK OF TANKL RECURRENCES. BITH-218.1
- IN PARKING FACLITIES, SKINS PROVIDED SOLELY FOR THE OPERATION OF VEHICLES SHALL NOT BE REQUERED TO COMPLY WITH 118-216.2 DESIGNATIONS, 118-216.3 DIRECTIONAL AND INFORMATIONAL SIGNS, AND 118-2166.3 THROUGH 118-216.12.
- TEMPORARY 7 DAYS OF LESS SIGNS SHALL NOT HE RECEIPED TO COMPLY WITH 118-216 SIGNS
- INTEROR AND EXTERIOR SIGNS IDENTIFYING PERMANENT RODINS AND SPACES SHALL COMPLY WITH 118-70.31 (BORDAL, 118-70.32) ANSID CHARACTERS, 118-70.33 (BMALLE AND 118-70.35 (MSALLE CHARACTERS, MERE PRICORMANS ARE PROVIDED AS DESIDATIONS OF PERMANNENT INTEROR RODINS AND SPACES, THE RETEIGRANS SHALL COMPLY WITH 118-703.8 (PROVIDE) AND SHALL HARE TEXT DESCRIPTIONS CONTRIVING WITH 118-703.2 (AD 118-70.35, PETCHARMS AND SHALL HARE TEXT DESCRIPTIONS CONTRIVING WITH 118-703.2 (AD 118-70.35, PETCHARMS AND SHALL HARE TEXT
- signs that provide direction to or information about interior and exterior spaces and facilities of the site shall comply with 118–703.5 visual characters; §118–216.3
- SIGNS FOR MEANS OF EGRESS SHALL COMPLY WITH 118-216.4 MEANS OF EGRESS:
- SIGNS REQURED BY CHAPTER 10, SECTION 1011.4 AT DOORS TO DOORS AT EXIT PASSAGEMANS, ED DISCHARGE, AND EXIT STAMAWNYS SHALL BE IDENTIFIED BY TACTLE SIGNS COMPLYING COMPLY WITH 118-7031, GROUPL, 118-7032, RAUSED CHARACTERS, 118-7033, BRAILE AND 118-7035, NSUAL CHARACTERS, \$118-216.4.1
- 5. Socie Statutetti je recipier VISALISLA U te je rezelenske, iniziene cost, poso damos of president pr
- C. SGNS REQURED BY SECTION 1003.2.13.6 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION) OR SECTION 1007.7 OF THE INTERNATIONAL, BUILDING CODE (2003 EDITION) (INCORPORATED BY REFERENCE, SET: "NETFRENES SIMAMONE" IN UNFERT 1) OUTFIER IN, SECTION 107.10 TO PRIVIDE DIRECTIONS TO ACCESSIBLE MEANS OF ERRESS SHALL COMPLY WITH 118-703.5 VISUAL CHARACTERS, §118-218.4.3.
- D. SIGNS REQUIRED BY CHAPTER 10, SECTION 1008.1.9.7, ITEM 5.1 AT DOORS WITH DELAYED EGRESS LOCKS SHALL COMPLY WITH 118-703.1 GDNERAL, 118-703.2 RAVED CHARACTERS, 118-703.3 BRAILE AND 118-703.5 VISUL, CHARACTERS, §118-216.4.4

- PARKING SPACES COMPLYING WITH 118-502 PARKING SPACES SHALL BE IDENTIFIED BY SIGNS COMPLYING WITH 118-502.6 IDENTIFICATION. §118-216.5 IN RESIDENTIAL FACILITIES, WHERE PARKING SPACES ARE ASSKINED TO SPECIFIC RESIDENTIAL DWELLING UNITS, IDENTIFICATION OF ACCESSIBLE PARKING SPACES SHALL NOT BE REQUIRED.
 - The source provides the fourth state state in the INTER STREAMED AND THE TRANSFER AND THE T WHERE EXISTING ELEVATORS DO NOT COMPLY WITH 118-407 ELEVATORS, COMPLIANT ELEVATORS SHALL BE
 - WHERE EXISTING ELEVANDES IN COMPACT WITH TIS-407 LEXANDES, COMPANY ELEVANDES SAMEL DE LOCARY DEMITTER WITH THE RITEMATION STINGL OF ACCESSION, CSG ACAPTING WITH 118-703.23.1 GA. DISTING BULLIONS THAT HAVE EEN ROMODED TO PROVICE SPECIFIC ELEVANDE OF PROJE USE THAT COMPACT WITH HAVE BULLIONS SAMEL HAVE THE COLORIN OF AND THE DIRECTIONS TO THESE ELEVANDES POSIED IN THE BULLIONS CLEWER ON A 150° COMPANY WITH 18-703.5 VISUAL (WANCEES, ROLLIONS THE ISA COMPANY ON HIT
 - The second seco
 - WHERE EXISTING TOLET ROOMS OR BATHING ROOMS DO NOT COMPLY WITH 118-603 TOLET AND BATHING ROOMS JO. TOLET ROOMS OR BATHING ROOMS COMPLYING WITH 118-603 TOLET AND BATHING ROOMS SAVEL BE LIDERTIFIED BY THE INTERNITIONAL SYMBOL OF ACCESSIBILITY (SA) COMPLYING WITH 118-7037.21 (SA) \$118-216.8
 - WHERE CLISITERED SINGLE USER TOLLT ROOMS OR BATHING FACULTES ARE FRBMITED TO USE EXERTIONS TO THE-2132 TOLET AND BATHING ROOMS, TOLLT ROOMS OR BATHING FACULTES COMPLYING INTI THE-G33 TOLET AND BATHING ROOMS SHULL BE DOBTIED IT THE RITERMONAL SHERDU, OF ACCESSIEUT (GA) COMPLYING WITH THE-703.22.1 RA UNLESS ALL TOLET ROOMS AND BATHING ROLLTES COMPLYING WITH THE-01312 TOLET AND BATHING ROOMS (THE-2108)
 - DISTING BUILDINGS THAT HAVE BEEN REDARDED TO PROVIDE SPECIFIC TOLET ROOMS OR BATHING ROOMS FOR FURICE USE THAT COMPLY THIN THESE BULLIANG STAMANDS SHALL HAVE THE LODATON OF MO THE DIRECTIONS TO THESE ROOMS ROOTS IN ON RHORE THE BULLIANG LOOP OF DIRECTION OF THE THE RULLIANG LOOP OF DIRECTION OF THE THERMATIONAL STANDAUG OF ACCESSIONLY (SOUCHTWON WITH THE THE TAYLE IN A DIRECTION OF THE METHANISMUS STANDAUGS SHALL HAVE THE LODATION OF ACCESSIONLY (SOUCHTWON WITH THE THE TAYLE IN A DIRECTION OF THE DIRECTION OF THE METHANISMUS STANDAUGS SHALL HAVE THE LODATION OF ACCESSIONLY (SOUCHTWON WITH THE THE TAYLE IN A DIRECTION OF THE METHANISMUS STANDAUGS SHALL HAVE THE DIRECTION OF THE METHANISMUS STANDAUGS SHALL HAVE THE DIRECTION OF THE METHANISMUS STANDAUGS SHALL HAVE THE LODATION OF THE THERMATIONAL STANDAUGS AND THE THE THE DIRECTION OF THE METHANISMUS STANDAUGS SHALL HAVE THE DIRECTION OF THE METHANISMUS STANDAUGS SHALL HAVE THE DIRECTION OF THE METHANISMUS STANDAUGS STANDAUGS SHALL HAVE THE DIRECTION OF THE DIREC
 - SIGNS SHALL COMPLY WITH 118-703 SIGNS. WHERE BOTH VISUAL AND TACTLE CHARACTERS ARE REQUERED, ETHER ORE SIGN WITH BOTH VISUAL AND TACTLE CHARACTERS, OR TWO SEPARATE SIGNS, ONE WITH VISUAL, AND ONE WITH TACTLE CHARACTERS. SHALL BE FORMED: 811-073.1
 - A SIGN AS SPECIFIED IN SECTION 11-27530, SOL AN INVESTIGATION OF THE CODE, WENN NULLEEN IN THE CONSTRUCTION OF INVENTIONS OF IFACULTIES, OR WHEN INCLUEED, ALTERED OR BERVACED, DUT CONCINCK, ALTERNING OR ERROWINGS OF IFACULTIES, OR WHEN INCLUEED, ALTERED OR BERVAL PERMIT OR ECONERD, SANL COMPLY WITH 118-703.1.1 PAW REVEW ARD 118-703.1.2 REVECTION, FILTH-703.1.1
 - B. PLANS, SPECIFICATIONS OR OTHER INFORMATION INDICATING COMPLIANCE WITH THESE REGULATIONS SHALL BE SUBMITTED TO THE ENFORCING AGENCY FOR REVIEW AND APPROVAL \$118-703.1.1.1
 - 5. SREA MO EXCIPICATION DEVICES SHULL ER RELIR REPORTED AFTER INSTALLATION MO APPRIVED BY THE DEPORTON AZANY PROVIDED TO THE SSUMMER OF A FUNL CERTIFUEL OF OCCUPANCY FER OWNER HE REPORTON STALLATURE AND A THE OWNER OF A STALLATION FOR OWNER OWNER HE REPORTON STALLATURE AND AND THE OF INSTALLATION HIT BRUILLATION AND ARE REPORTS SHOULD MURLING BUT HOT OWNER OWNER OWNER OWNER ARE REPORTS SHOULD AND THE SIZE, REPORTION AND THE OF INSTALL OWNER THE REVIEW OWNER WITH HER EXCLUSIONS, THE HOUSE TO AND THE OF INSTALL OWNER THE REVIEW OWNER WITH HER EXCLUSIONS, THE FORLING OWNER OWNER OWNER AND THE REVIEW OWNER OWNER OWNER OWNER OWNER OWNER OWNER WITH HER EXCLUSIONS, THE FORLING OWNER OWNER OWNER OWNER WITH THE RE EXCLUSIONS, THE FORLING OWNER OWNER OWNER OWNER WITH THE EXCLUSIONS, THE FORLING OWNER OWNER OWNER OWNER WITH THE RE COULDING. THE FORLING OWNER OWNER OWNER WITH THE RE EXCLUSIONS, THE FORLING OWNER OWNER OWNER WITH THE RE CRUSTIONS, THE FORLING OWNER OWNER OWNER WITH THE RE CRUSTIONS, THE FORLING OWNER OWNER OWNER WITH THE RE CRUSTIONS, THE FORLING OWNER OWNER OWNER WITH THE RE CRUSTIONS, THE FORLING OWNER OWNER OWNER WITH THE RE CRUSTIONS, THE FORLING OWNER OWNER OWNER WITH THE RE CRUSTIONS, THE FORLING OWNER OWNER OWNER WITH THE RE CRUSTIONS, THE FORLING OWNER OWNER OWNER WITH THE RE CRUSTIONS, THE FORLING OWNER OWNER OWNER WITH THE RE CRUSTIONS, THE FORLING OWNER WITH THE RE CRUSTIONS, THE FORLING OWNER OWNER
 - RVISED CHARACTERS SHALL COMPLY WITH 118-703.2 RVISED CHARACTERS AND SHALL BE DUPLICATED IN BRVILLE COMPLYING WITH 118-703.3 BRVILLE, RVISED CHARACTERS SHALL BE INSTALLED IN ACCORDANCE WITH 118-703.4 INSTALLATION HIGHT AND LOCATION \$118-703.2
 - A RAISED CHARACTERS SHALL BE 1/32 INCH MINIMUM AROVE THEIR BACKOROLIND \$118-703.2.1
 - B. CHARACTERS SHALL BE UPPERCASE. §118-703.2.2 C. CHARACTERS SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS. §118-703.2.3
 - D. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WOTH OF THE UPPERCASE LETTER "0" IS 55 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEICHT OF THE UPPERCASE LETTER "1". 8119-0731
 - E. CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8 INCH MININUM AND 2 INCHES MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER ". \$118-703.2.5
 - F. STROKE THICKNESS OF THE UPPERCASE LETTER "1" SHALL BE 15 PERCENT MAXMUM OF THE HEIGHT OF THE CHARACTER, §118-703.2.6
 - THE UNPORTED \$110-102.00 CONTROL TO CONTROL TO CONTROL TO A CONTROL TO
 - H. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE RAISED CHARACTER HEIGHT. §118-703.2.8
 - L TEXT SHALL BE IN A HORIZONTAL FORMAT, \$118-703.2.9
 - BRAILE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH 118-703.3 BRAILE AND 118-703.4 INSTALLATION HEIGHT AND LOCATION. \$118-703.3
 - A braile dots shall have a domed or rounded shape and shall compay with table 118–703.31 The indication of an uppercase letter or letters shall only be used before the first moro of sentences, prover nouns and names, individual letters of the alphabet, initials, and according. 8(18–703.31)
 - B. BOALLE SMALL BE POSITIONED BELOW THE CORRESPONDING TOXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CONTREME. IF TOXT IS MULTI-LINED, BOALLE SMALL BE FUACED BELOW THE DITIES TOXT. BOALLE SMALL BE STOPPATTO 3/4 INCH MUMIUM MO 1/2 NOV INVARIUM FORM ANY OTHER TOXTLE OMMOTIES MO 3/4 INCH MUMIUM FROM RASED BORGERS AND DECORATIVE ELEMENTS. §118-703.3.2 (SEE VICENTIAL)
 - signs with tactle characters shall comply with 118–703.4 installation height and location. $\frac{1}{2}118-703.4$
 - A TUCHLE OMMUCTIES ON SORE SMLL BE LOCATED 48 INCHES MINIBAN AROVE THE FINCH FLOOR OR BORING SIRVICE, MUCARDO FROM THE MISELING OF THE LOXEST TUCHLE COMMUNEL CLUS. MOL OR NOTES: MUNIBAN MORE THE FINCH FLOOR ROTATION SURFACE, MUSALED FROM THE BASELING OF THE HIGHEST MUTLE CHMONETRE LINE OF PASED CHMONETRES, §118-703.4.1 (SEE DUERTION)
 - LIGATION) B. WERT A TOTEL SON IS FROMED AF A DOOS, THE DIR SHALL BE LOADED ADMISSION THE DOOR AT SON SHALL BE LOADED ON THE MUSTIME LUXE. BERK A NACTLE SON IS FROMED AT JOINED LOOSE SHIT HOW AFTLE LOADED ON THE ANDRE LUXE. BERK A NACTLE SON IS FROMED AT JOINED LOOSE SHIT HOW AFTLE LUXE LOADED ON THE ANDRE LUXE ADMISSION THE ADMISSION OF ADMISSION DOWNLE DOOR, SHIT SON SHALL BE LOADED ON THE ANDRE ADMISSION THE ADMISSION OF AD
 - VISUAL CHARACTERS SHALL COMPLY WITH THE FOLLOWING, EXCEPT WHERE VISUAL CHARACTERS COMPLY WITH 118-703.2 RAISED CHARACTERS AND ARE ACCOMPANED BY BRAILE COMPLYING WITH 118-703.3 BRAILE, THEY SHALL NOT BE REQUERE TO COMPLY WITH 118-703.5.2 THROUGH 118-703.5.6, 118-703.5.8 MOI 118-703.5.2;
 - A. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER USHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND, STID=703.51.
 - B. CHARACTERS SHALL BE UPPERCASE OR LOWERCASE OR A COMBINATION OF BOTH. \$118-703.5.2
 - C. CHARACTERS SHALL BE CONVENTIONAL IN FORM. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT,

- HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS. \$118-703.5.3 D. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER O' IS 55 60 PERCENT MINIMUM AND 110 PERCENT MAXMUM OF THE HEIGHT OF THE UPPERCASE LETTER 1. 55 60 PERCENT
- E. MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH TABLE 118-703.5.5. WEINING DISTANCE SHALL BE MESSINGD AS THE HORGOTIAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING THERE APPROACH TOWARDS THE SON, CHARACTER HEIGHT SHALL BE BASED ON THE UPPERCASE LETTER Y. \$118-703.5.5 (SEE EXCEPTION)
- VISUAL CHARACTERS SHALL BE 40 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND. 8118-703.5.6 (SEE EXCEPTIONS)
- STROKE THICKNESS OF THE UPPERCASE LETTER "1" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HIGHT OF THE CHARACTER, \$118-703.5.7 H. CHWARTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT CHWARTERS, DX2LDING WORG SPACES, SPACING BETWEEN NOMDUJU, CHWARTERS SHALL BE 10 PERCENT WAIMULA WAD 35 PERCENT WAIMUM OF CHWARTER FIEHT, 611–673.5.8
- L SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE CHARACTER HEIGHT. §118-703.5.9
- J. TEXT SHALL BE IN A HORIZONTAL FORMAT. \$118-703.5.10
- D. PICTOGRAMS SHALL COMPLY WITH THE FOLLOWING:
- A. PICTOGRAMS SHALL HAVE A FIELD HEXHT OF 6 INCHES MINIMUM. CHARACTERS AND BRAILE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD. §118-703.6.1
- PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A UGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A UGHT FIELD, 8118-7026.82
- C. PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD. TEXT DESCRIPTORS SHALL COMPLY WITH 118-703.2 RAISE CHARACTERS, 118-703.3 BRAILE AND 118-703.4 INSTALLATION HEDRIT AND LOCATION, \$118-703.8.3
- SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK SYMBOL ON A LIGHT BACKGROUND (\$118-703.7.1
- 22. SYMBOLS SHALL COMPLY WITH THE FOLLOWING:
- A. THE INTERNATIONAL SINUBOL OF ACCESSIBILITY SHALL COMPLY WITH FIGURE 118-70.3.7.2.1 ISA. THE SINUBOL SHALL CONSIST OF A WHITE FOUNE ON A BLUE BACKGROUND. THE BLUE SHALL BE COLOR NO. 15090 IN TECENAL STANDARD 5598, 8119-703.7.2.1 (SEE EXCEPTION)
- B. THE INTERNATIONAL SYMBOL OF TTY SHALL COMPLY WITH FIGURE 118-703.7.2.2. C. TELEPHONES WITH A VOLUME CONTROL SHALL BE IDENTIFIED BY A PICTOGRAM OF A TELEPHONE HANDSET WITH RADIATING SOUND WAVES ON A SQUARE FIELD SUCH AS SHOWN IN FIGURE
- D. ASSISTIVE LISTEDNING SYSTEMS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS COMPLYING WITH FIGURE 118-703.7.2.4.
- Provide LLOS GARTINE HIT PROF. 18: PLOLAGE. E ROME: SAULTER DE LA COMPANIE DE LA
- DORMING LUZING TO TOLET RODUE AND BATHING RODUS SHUL BE IDDITIFIED BY A GENETIC SYNED, COMPLYING WITH 115-733.7.26 TOLET AND BATHING FACULTES GENETICS SYNEDS. THE SYNED, SHUL BE WONTED AT 88 DEVISES MANKAM. NO 6 INCISS MANKAM. RODUS THE FINISH LOOK OF GROUND SUMFACE MESSINED FROM THE CONTENIES OF THE RODUS THE FINISH PROVIDED HIE SHINGS, SHUL BE GRANNED WITHIN 1 KAON THE VIEW ALL STRUCTURES OF THE DOOR S PROVIDED HIE SHINGS, SHUL BE GRANNED WITHIN 1 KAON THE VIEW ALL STRUCTURES OF THE DOOR S \$118-703.7.2.6 (SEE EXCE
- G. MEN'S TOLET AND BUTHING FACILITIES SHALL BE IDENTIFIED BY AN EQUILATEAU. TRANSLE, X NCH THO'K WITH EDDES 12 INDERS LONG AND A VERTEX FORMING URWARD. THE TRANSLE SINGOL SHALL CONTINUES THIN THE DOOR, BITHER LIGHT ON A LARK BACKGROUND OR DARK ON A LIGHT BACKGROUN §118-703.7.2.6.1
- . WOWEN'S TOILET AND BATHING FACILITIES SHALL BE IDENTIFIED BY A CIRCLE, % INCH THICK AND 12 NOHES IN DWATETER. THE CIRCLE STHEDUL SHALL CONTRAST WITH THE DOOR, EITHER LIGHT ON A DWAR BACKRORUNG OR DWAR ON A LIGHT BACKRORUND, 8118-7037.2.8.2
- J. EDGES OF SIGNS SHALL BE ROUNDED, CHAMPERED OR EASED. CORNERS OF SIGNS SHALL HAVE A MINIMUM RADIUS OF % INCH. §118-703.7.2.8.4
- BUILT-IN ELEMENTS
- INING SURFACES AND WORK SURFACES
- WHERE DINING SURFACES ARE PROVIDED FOR THE CONSUMPTION OF FOOD OR DRINK, AT LEAST 5 PERCENT OF THE SEATING SPACES AND STANDING SPACES AT THE DINING SURFACES SHULL COMPLY WITH 118-902. IN ADDITION, WHERE WORK SURFACES ARE PROVIDED FOR USE BY OTHER THAN EMPLOYEES, AT LEAST 5 PERCENT SHULL COMPLY WITH 118-902. §118-22&1 (SEE DICEPTIONS)
- dining surfaces and work surfaces required to comply with 118-402 shull be dispersed throughout the space or facility containing dining surfaces and work surfaces for each type of satisfies on a functional area. Work surfaces required to comply with 118-402 shull be dispersed throughout the space or facility containing work surfaces. §118-228.2
- WHERE FOOD OR DRINK IS SERVED FOR CONSUMPTION AT A COUNTER EXCEEDING 34 INCHES IN HEIGHT, A FORTON OF THE MAN COUNTER 60 INCHES MINIMUM IN LENGTH SHALL BE PROVIDED IN COMPLANCE WITH 118-0423. \$119-243.
- QUELES AND WAITING LINES SERVICING COUNTERS OR CHECK-OUT AISLES REQUIRED TO COMPLY WITH 118-904.3 OR 118-904.4 SHALL COMPLY WITH 118-403. §118-227.5
- COUNTERS IN FOOD SERVICE LINES SHALL COMPLY WITH 118-904.5. \$118-904.5
- A. SELF-SERVICE SHELVES AND DISPENSING DEVICES FOR TABLEWARE, DISHWARE, CONDIMENTS, FOOD AND BEVERAGES SHALL COMPLY WITH 118-308, \$118-304.5.1
- B. THE TOPS OF TRAY SLIDES SHALL BE 28 INCHES MINIMUM AND 34 INCHES MAXIMUM ABOVE THE FINISH FLODE OF CROWND, \$118-904-52
- BENCHES
- CHECK-OUT AISLES AND SALES AND SERVICE COUNTERS
- SALES COUNTERS AND SERVICE COUNTERS SHALL COMPLY WITH EITHER OF THE FOLLOWING AND THE ACCESSIBLE PORTION OF THE COUNTER TOP SHALL EXTEND THE SAME DEPTH AS THE SALES OR SERVICE COUNTER TOP, \$111-8044, (SEE EXCEPTION)
- Content of the source support that is so increase long winning and 34 increasing with Moor the finish floor shall be provided a locar floor or ground space computing with 118-305 SHLLE POSITIONE TOR A MANULL APPROACH ADMOST TO THE 36 INCH WINNIN LENGTH OF COUNTER, \$118-904.41 (SEE DIXEPTION) OR
- B. PORTION OF THE COUNTER SURFACE THAT IS 36 INCHES LONG MINIMUM AND 34 INCHES HIGH MAXIMUM SHALL BE PROVIDED. NORE: AND TOE SPACE COMPLYING WITH 118-306 SHALL BE PROVIDED LINDER THE COUNTER. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 118-305 SHALL BE POSITIONED FOR A FORMADD APPROACH TO THE COUNTER, §118-804.4.2

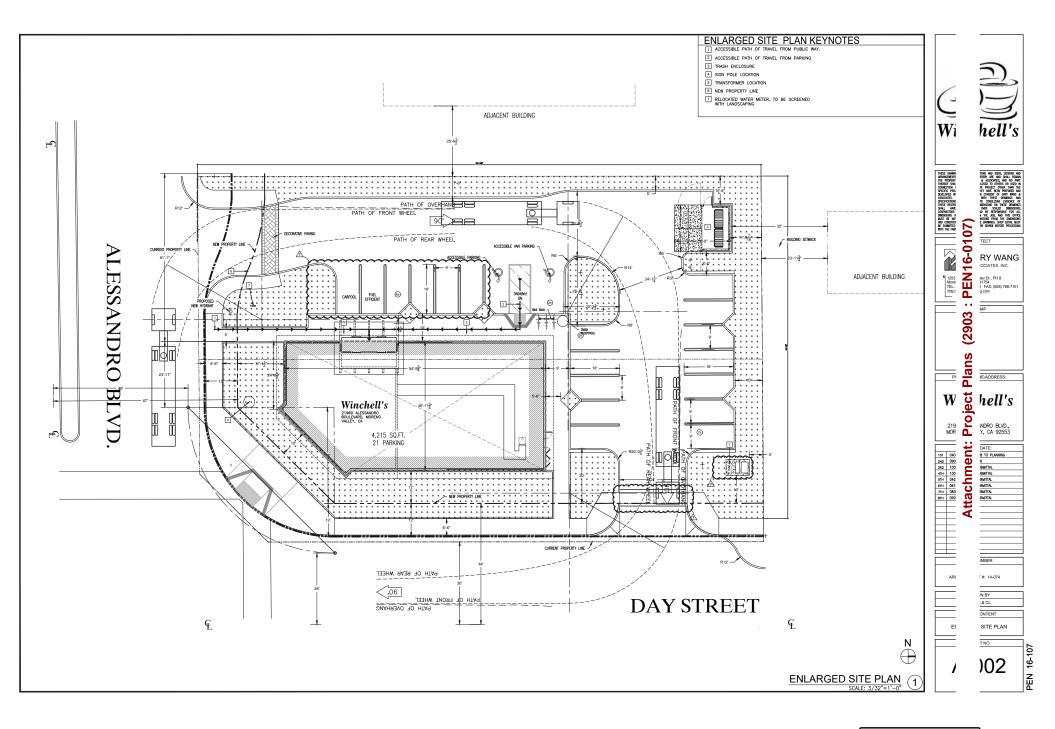


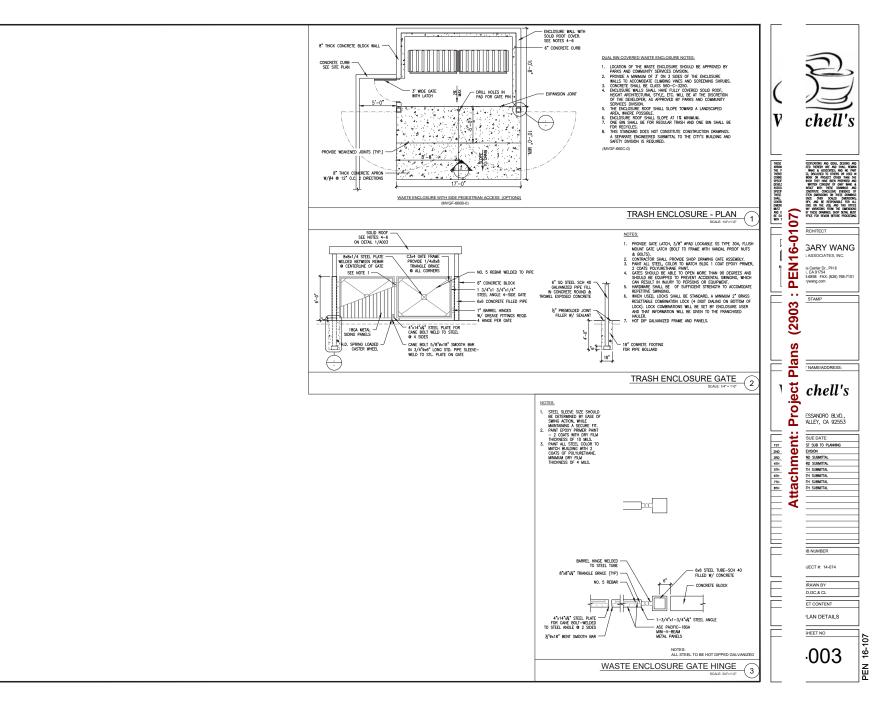


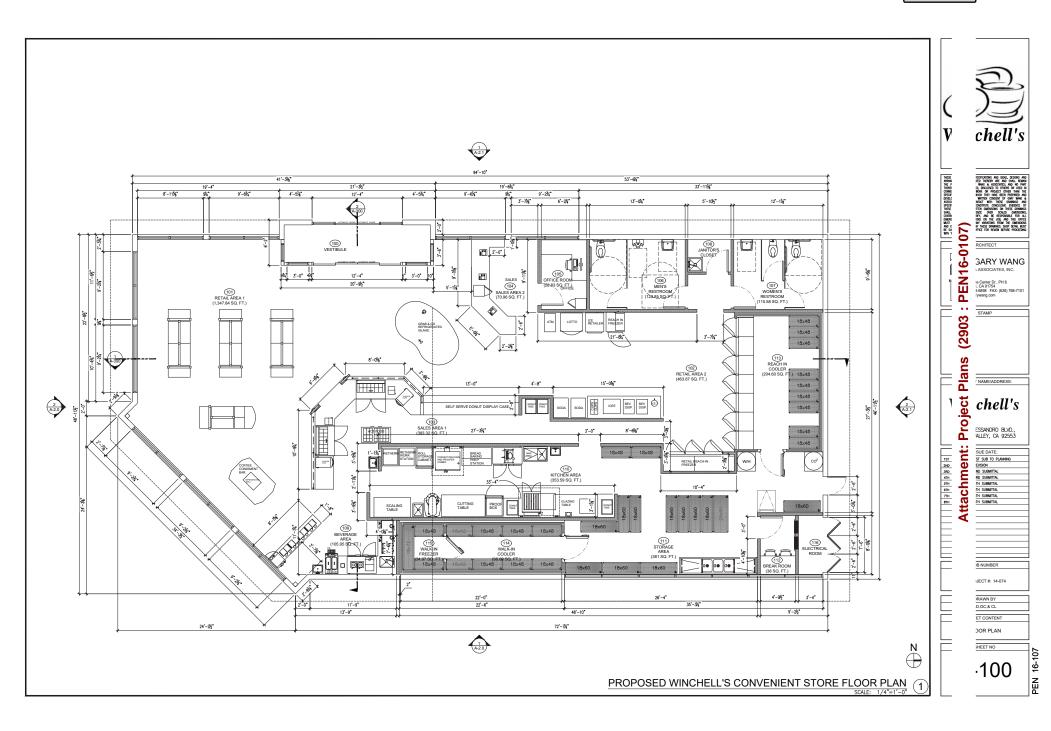
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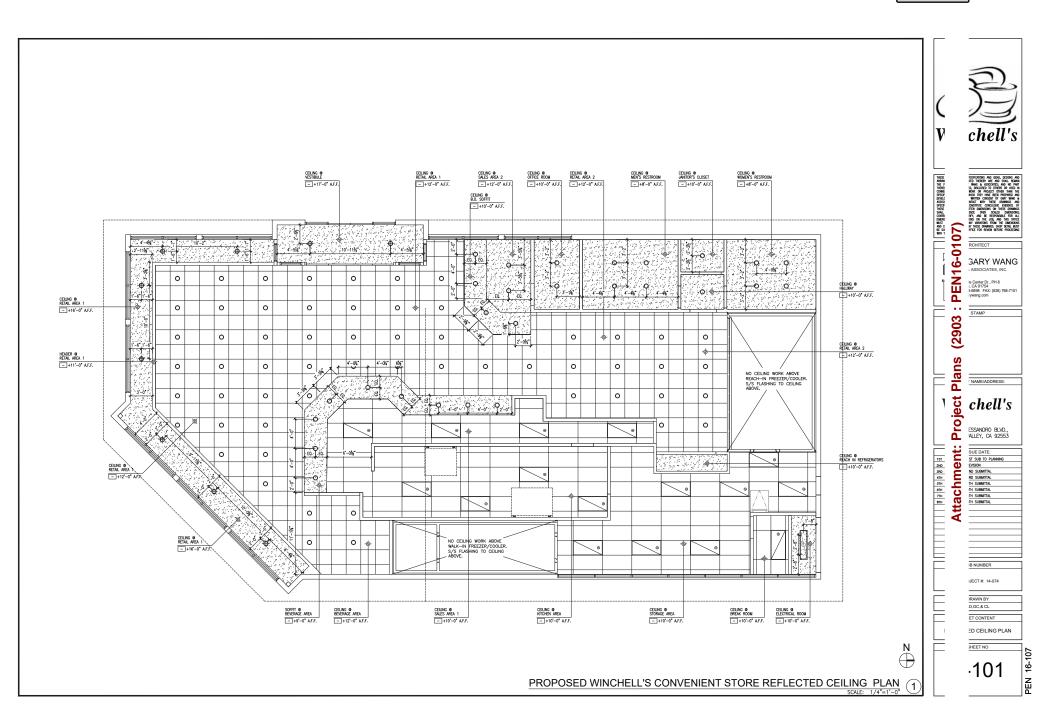
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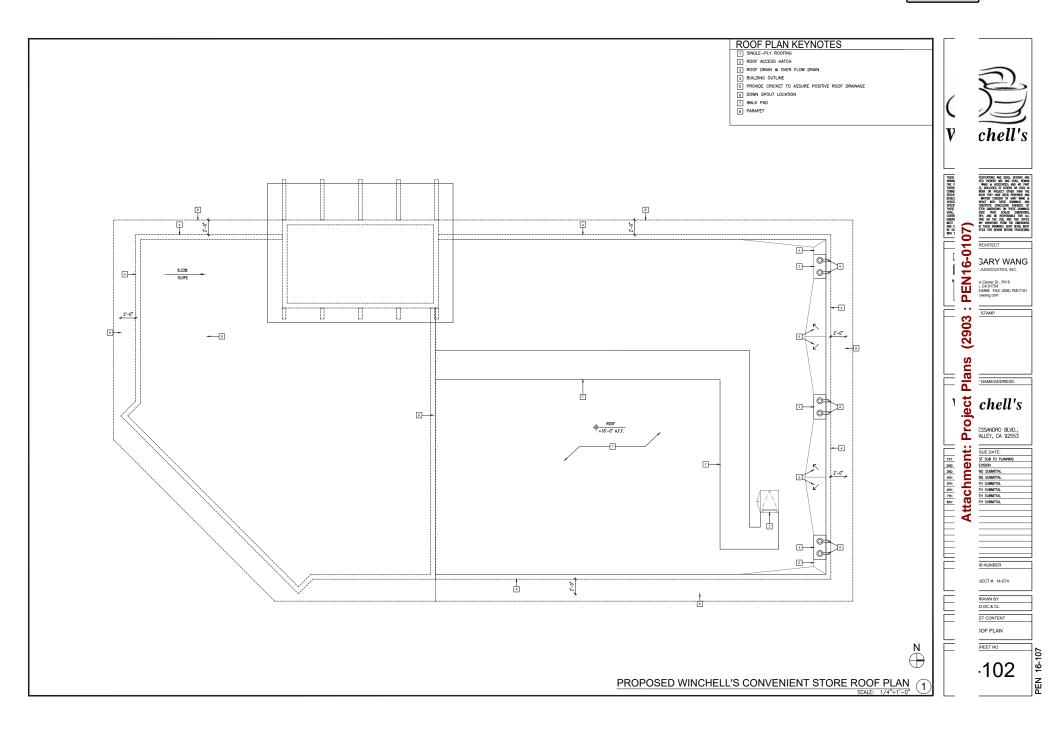








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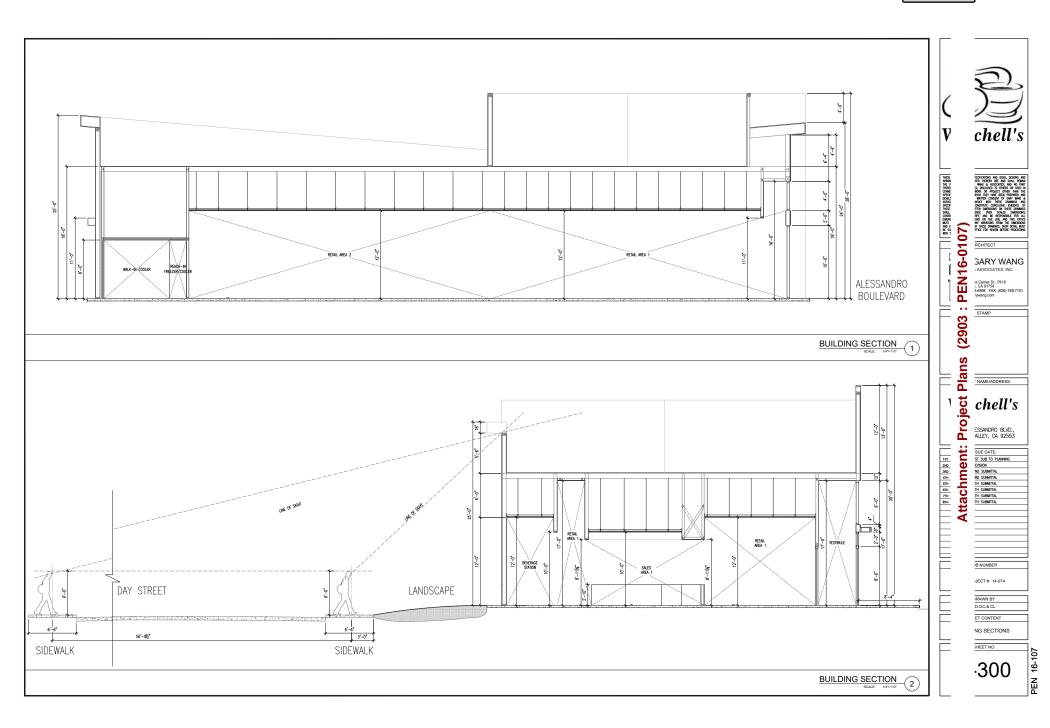




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1.g







MFG: NICHIHA VINTAGE WOOD SERIES COLOR: BARK EPC763F MATERIAL: FIBBER CEMENT



COLOR: GRAY WOLF DE6354 MATERIAL: PAINT ON STUCCO



21960 ALESSANDRO BOULEVARD MORENO VALLEY, CA 92553



MFG: CORONADO COLOR: DAKOTA BROWN MATERIAL: BRICK VENEER

1.h

PREPARED BY:



EN16-0107)



PLANNING COMMISSION

STAFF REPORT

Meeting Date: December 21, 2017

PLOT PLAN FOR A NEW 5,430 SQUARE FOOT AUTOMATED CAR WASH FACILITY

Case:	PEN16-0113 Plot Plan
Applicant:	Alisam Moreno, LLC
Owner:	SH-60 at Heacock Street, LLC
Representative:	Bijan Shahmoradi
Location:	North side of Sunnymead Boulevard, west of Heacock Street, south of State Highway 60
Case Planner:	Gabriel Diaz
Council District:	1

SUMMARY

The applicant, Alisam Moreno, LLC, is seeking approval of a Plot Plan for the development of a 5,430 square foot fully automated car wash with vacuum stalls on a 1.68 acre site located on the north side of Sunnymead Boulevard, west of Heacock Street, and south of State 60 freeway. The project as designed is consistent with the City's General Plan and the Municipal Code and the project is being recommended for approval.

PROJECT DESCRIPTION

Project

The proposed project is a new 5,430 square foot fully automated car wash facility. The fully automated car wash includes an enclosed building for washing the vehicles and outdoor parking areas equipped with vacuum stations for drying and completing the interior detailing of the vehicles. Before entering the building, customers would pay for the service at an automated pay station. The pay station drive through is designed with

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Page 1

adequate room for queueing vehicles. Customers drive to the tunnel, which is approximately 130 feet in length, and remain in the car during the car wash. An automated car wash facility requires fewer on-site staff and therefor the number of parking spaces required for staff parking. Customers, upon exiting the carwash tunnel, have the option of moving their vehicle to the covered dry off and vacuum areas, which is a self-service amenity. Development regulations and processing requirements for the project site are set forth in a Specific Plan known as the Village Plan (SP204). SP204, for this proposed project site, by specific reference, relies on the Community Commercial development standards contained in Title 9 of the City Municipal Code. As a land use a car wash is considered a permitted use, and is required to be reviewed as a major development review with a properly filed Plot Plan application.

The architectural design of the car wash building strives to be appealing through the use of variation in roofline, materials, and color. The building has a contemporary style with a flat roof, faux windows on the east and west elevations, and two tower elements at the entrance and exit to the car wash. The stone veneer proposed will add an attractive base of the building. Building exterior finishes include a blend of earth tone paint colors, earth tone stone veneer, metal fascia, striped canvas awnings, and a clay tile roof over the car wash entrance and exit tower elements. The proposed project is an infill development that will enhance and add architectural character to the Sunnymead Boulevard corridor.

The Plot Plan has been evaluated against General Plan Objective 2.4, which states "provide commercial areas within the City that are conveniently located, efficient, attractive, and have safe and easy pedestrian and vehicular circulation in order to serve the retail and service commercial needs of Moreno Valley residents and businesses" and staff has confirmed that the proposed project does not conflict with goals, objectives, policies, or programs set forth in the General Plan.

<u>Site</u>

The project site is located on the north side of Sunnymead Boulevard, west of Heacock Street, and south of State Highway 60. The project topography is flat and slopes gently from north to south. There is one mature tree on the project site. There are no rock outcroppings or building structures on the site. On the northern portion of the site, there is one existing billboard and freeway sign. As shown on the site plan, and covered in the specific conditions of approval for the project, the signs must be removed with the project (i.e. prior to issuance of a grading permit). The removal of the billboard and particularly the freeway sign will be an enhancement as it is currently damaged and in disrepair. The site has also been cleared routinely for weed abatement.

The project site is comprised of one parcel (Assessor's Parcel Number 292-160-023) totaling 1.68 acres. The current zoning designation for the project site is (SP204CC) Specific Plan 204 Community Commercial. The General Plan land use designation for the project site is (C) Commercial.

Surrounding Area

Page 2 Packet Pg. 116 Surrounding land uses include existing commercial automotive uses to the west, and retail uses including a Chevron gas station, Jack's Burgers and Jack in-the-Box fast food restaurant to the immediate east fronting on Heacock Street. The Moreno Valley Plaza and related parking lot is located to the south across Sunnymead Boulevard. The current zoning designations to the west, east, and south are Specific Plan 204 Community Commercial (SP204CC). To the north is State Highway 60.

Overall, the proposed car wash development has been found to be consistent with the objectives, goals and policies outlined in the City's General Plan, as well as being compatible with the existing and planned land uses in the project area.

Access/Parking

Primary direct access to the proposed development will be from one driveway on Sunnymead Boulevard. The proposed driveway will be right-in and right-out only, controlled by the existing raised concrete median on Sunnymead Boulevard.

The project exceeds the Municipal Code requirements for parking. A total of 12 parking spaces are required. The project as designed provides a total of 39 spaces including employee and clean air vehicle parking spaces. These parking areas include the dry-off and vacuum areas for customers. The project as designed satisfies all parking requirements of the City's Municipal Code including ADA accessible parking and parking considerations for fuel efficient vehicles.

The driveway and interior drive aisles within the site have been reviewed for adequate truck maneuvering and turnaround for delivery trucks and trash pick-up, and have been reviewed and approved by the Fire Prevention Bureau for fire truck access.

Design/Landscaping

This project, as designed and conditioned, conforms to all development standards of the Community Commercial zone and the design guidelines for a commercial use as required within the City's Municipal Code. The existing bus shelter and street improvements and furniture will not be impacted by the project.

The project has been designed to meet required landscaped standards and objectives as set forth in the City's Municipal Code. The landscape elements of the project include the landscape setback areas along Sunnymead Boulevard, parking lot landscape, street trees and landscape treatments around the perimeter of the site.

REVIEW PROCESS

The project was reviewed through a comprehensive development review process including a pre-Project Review Staff Committee meeting in April 2017. All staff comments have been addressed on the site plan or through the conditions of approval. In addition, tribal consultation was conducted and completed in accordance with the State Public Resources Code.

Upon review of revised plans, and subsequent submittals, and completion of required review, and the preparation of a Preliminary Water Quality Management Plan, the

project was scheduled for the Planning Commission public hearing on December 21, 2017.

ENVIRONMENTAL

In reviewing the project, planning staff determined that the project did not qualify for any exemptions under the California Environmental Quality Act (CEQA) Guidelines. An Initial Study was prepared by MIG, Inc., in compliance with the California Environmental Quality Act (CEQA) Guidelines. The Initial Study examined the potential of the proposed project to have significant impacts on the environment and supports the finding that a Mitigated Negative Declaration is an appropriate CEQA document for the project. The proposed project, with the implementation of mitigation measures identified, will not have a significant effect on the environment. City Planning staff completed an independent review of the environmental documents prepared by the consultants, and confers the findings presented.

Studies prepared for this project included an air quality and greenhouse gas analysis, a biological resources assessment, a phase I cultural resources technical report, preliminary drainage study, a geotechnical investigation, noise impact analysis, and a water quality management plan. The electronic files for the IS/MND and appendices are included with this report, however, due to the extent of the documentation, hard copies have not be included with the printed agenda packet. Anyone wishing to view the hard copy documents may do so at City Hall, or upon request hard copies can be made for any Commissioner.

Public notice of the availability of the Initial Study / Mitigated Negative Declaration was published in the newspaper on November 24, 2017, which satisfies the required 20 day review period in advance of the Planning Commission Public Hearing.

Mitigation measures are recommended for the project in the following areas: biological resources, cultural and historical resources, noise, and tribal resources. The measures for cultural and tribal resources have been included to address input from the tribal agencies. The measures are prophylactic and intended to ensure that should any actual tribal cultural resources be discovered during the course of grading or building of the project, that those resources be properly addressed and or protected. These measures are not required to address a known significant impact.

NOTIFICATION

The public hearing notice for this project was published in the local newspaper on November 24, 2017. Public notices were sent to all property owners of record within 300 feet of the project site on December 7, 2017. The public hearing notice for this project was posted on the project site on December 8, 2017.

As of the date of report preparation, staff has received no phone calls or correspondence in response to the noticing for this project.

REVIEW AGENCY COMMENTS

Page 4

Staff has coordinated with outside agencies and where applicable, conditions of approval have been included to address concerns from the responding agencies, including addressing input from the tribal agencies.

STAFF RECOMMENDATION

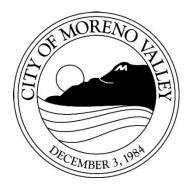
- A. Staff recommends that the Planning Commission **APPROVE** Resolution No. 2017-44, and thereby:
 - 1. **CERTIFY** that the Mitigated Negative Declaration prepared for Plot Plan PEN16-0113 on file with the Community Development Department, incorporated herein by this reference, has been completed in compliance with the California Environmental Quality Act, that the Planning Commission reviewed and considered the information contained in the Mitigated Negative Declaration and the document reflects the City's independent judgment and analysis; attached hereto as Exhibit A; and
 - 2. **ADOPT** the Mitigation Monitoring and Reporting Program prepared for Plot Plan PEN16-0113, attached hereto as Exhibit B.
- B. Staff recommends that the Planning Commission **APPROVE** Resolution No. 2017-45, and thereby:
 - 1. **APPROVE** Plot Plan PEN16-0113 based on the findings contained in this resolution, and subject to the conditions of approval included as Exhibit A.

Prepared by: Gabriel Diaz Associate Planner Approved by: Allen Brock Community Development Director

ATTACHMENTS

- 1. Public Hearing Notice
- 2. Aerial Photo
- 3. Zoning Map
- 4. Resolution 2017-44
- 5. Exhibit A Initial Study Mitigated Negative Declaration
- 6. Exhibit B Mitigation Monitoring and Reporting Program
- 7. Appendix A Air Quality and Greenhouse Gas Assessment
- 8. Appendix B Biological Resource Assessment
- 9. Appendix C Phase I Cultural Resources Technical Report
- 10. Appendix D Noise Modeling Files
- 11. Geotechnical Investigation
- 12. Preliminary Drainage Study

- 14. Resolution 2017-45
- 15. Exhibit A Conditions of Approval
- 16. Project Site Plan
- 17. Preliminary Grading Plan
- 18. Floor Plan
- 19. Color Elevations
- 20. Material Board



This may affect your property Notice of PUBLIC HEARING

Notice is hereby given that a Public Hearing will be held by the Planning Commission of the City of Moreno Valley on the following item(s):

Project:	PEN16-0113 – Plot Plan
Applicant: Owner:	Alisam Moreno, LLC SH-60 at Heacock Street, LLC
Representative:	,
A.P. No:	292-160-023
Location:	North of Sunnymead Boulevard, west of Heacock Street, south of the 60 freeway.
Proposal:	A proposal to construct a 5,430 square foot fully automated car wash with vacuum stalls on a 1.68 acre parcel. The current zoning is SP204CC.

Council District: 1

The City of Moreno Valley has reviewed the above project in accordance with California Environmental Quality Act (CEQA) Guidelines Section 15070 and has determined that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because mitigation measures have been required of the project that will reduce potential impacts to a less than significant level. Therefore, a Mitigated Negative Declaration is recommended for the project.

A public hearing before the Planning Commission has been scheduled for the proposed project. Any person interested in proposal commenting on the and recommended environmental determination may speak at the hearing or provide written testimony at or prior to the hearing. The project application, supporting plans and environmental documents may be inspected at the Community Development Department at 14177 Frederick Street, Moreno Valley, California during normal business hours (7:30 a.m. to 5:30 p.m., Monday through Thursday and 7:30 a.m. to 4:30 p.m., Friday), or you may telephone (951) 413-3206 for further information.

The Planning Commission, at the Hearing or during deliberations, could approve changes or alternatives to the proposal. If you challenge any of these items in court, you may be limited to raising only those items you or someone else raised at the Public Hearing described in this notice, or in written correspondence delivered to the Planning Commission at, or prior to, the Public Hearing.

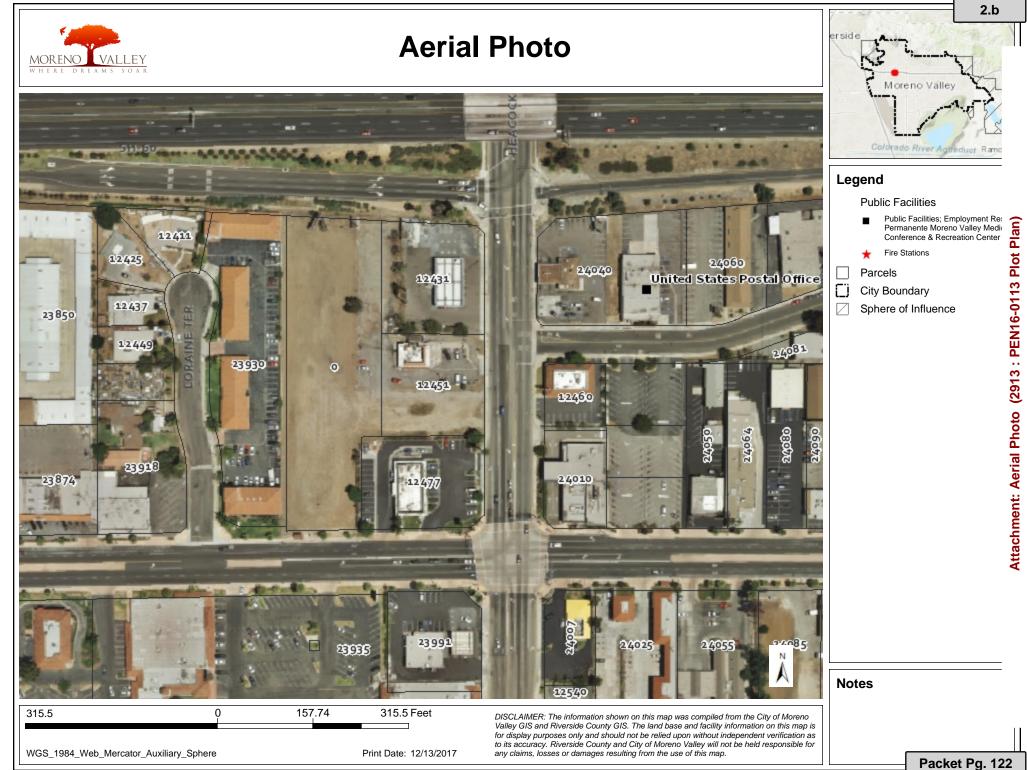


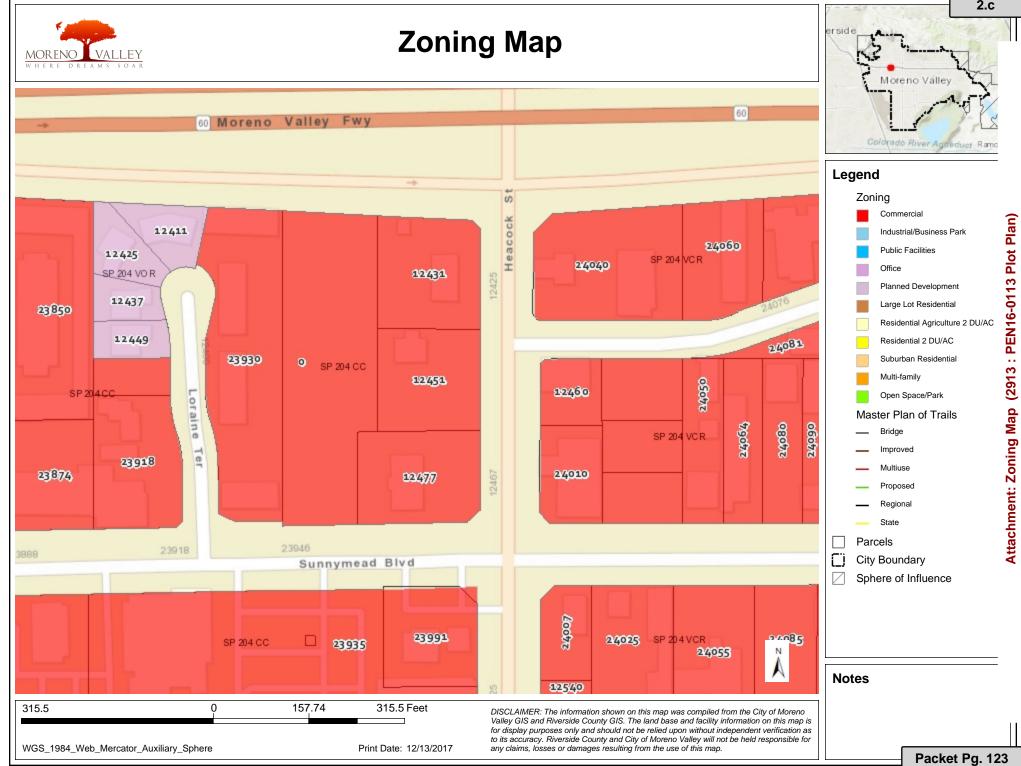
LOCATION N 🛧 PLANNING COMMISSION HEARING

City Council Chamber, City Hall 14177 Frederick Street Moreno Valley, Calif. 92553

DATE AND TIME: December 21, 2017, 7:00 p.m. **CONTACT PLANNER:** Gabriel Diaz PHONE: (951) 413-3226

Upon request and in compliance with the Americans with Disabilities Ac of 1990, any person with a disability who requires a modification c accommodation in order to participate in a meeting should direct such request to Guy Pegan, ADA Coordinator, at 951.413.3120 at least 4 hours before the meeting. The 48-hour notification will enable the City t make reasonable arrangements to ensure accessibility to this meeting.





2.c

PLANNING COMMISSION RESOLUTION NO. 2017-44

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF MORENO VALLEY, CALIFORNIA, CERTIFYING THE MITIGATED NEGATIVE DECLARATION AND APPROVING THE MITIGATION MONITORING AND REPORTING PROGRAM FOR A CAR WASH FACILITY PEN16-0113

WHEREAS, the applicant, Alisam Moreno, LLC, filed applications for the for development of a 5,430 square foot fully automated car wash with vacuum stalls project ("Project"), which includes an Expanded Environmental Review. The Plot Plan application shall not be approved unless the Final Mitigated Negative Declaration is certified and approved; and

WHEREAS, the application for the Project has been evaluated in accordance with established City of Moreno Valley (City) procedures, and with consideration of the General Plan and other applicable regulations; and

WHEREAS, an Initial Study, supporting technical studies, and Mitigated Negative Declaration for the Project were prepared, consistent with the California Environmental Quality Act (CEQA); and

WHEREAS, a 20-day public review period of the Initial Study and Mitigated Negative Declaration commenced on November 24, 2017 and concluded on December 14, 2017. The public hearing notice for the project was published in the local newspaper on November 24, 2017. The public hearing notice for the project was mailed to all property owners of record within 300 feet of the project site on December 7, 2017. The public hearing notice for the project site on December 7, 2017. The public hearing notice for the project site on December 7, 2017.

WHEREAS, the City, in conducting its own independent analysis of the Final Mitigated Negative Declaration, determined that a Mitigated Negative Declaration is an appropriate environmental determination for the Project as there is substantial evidence that demonstrates the Project would not result in any significant environmental impacts; and

WHEREAS, a Mitigation Monitoring and Reporting Program (MMRP) has been prepared in accordance with CEQA Guidelines, and is designed to ensure compliance with the identified mitigation measures outlined in the Final Mitigated Negative Declaration through project implementation; and

WHEREAS, The City of Moreno Valley, Community Development Department, located at 14177 Frederick Street, Moreno Valley, California 92552 is the custodian of documents and other materials that constitute the record of proceedings upon which the decision to adopt the Mitigated Negative Declaration is based; and 2.d

1

WHEREAS, the Planning Commission of the City of Moreno Valley considered the Project, including all environmental documentation, at a public hearing held on December 21, 2017; and

WHEREAS, all legal prerequisites to the adoption of this Resolution have occurred; and

WHEREAS, the Planning Commission considered the Initial Study prepared for the Project for the purpose of compliance with the California Environmental Quality Act (CEQA), and based on the Initial Study including all supporting technical evidence, it was determined that the project impacts are expected to be less than significant with mitigation, and approval of a Mitigated Negative Declaration is an appropriate environmental determination for the Project.

NOW, THEREFORE, THE PLANNING COMMISSION OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

A. This Planning Commission specifically finds that all of the facts set forth above in this Resolution are true and correct.

B. Based upon substantial evidence presented to this Planning Commission during the above-referenced meeting on December 21, 2017, including written and oral staff reports, and the record from the public hearing, this Planning Commission finds as follows:

1. Independent Judgment and Analysis – MIG, Inc. prepared the Mitigated Negative Declaration/Initial Study and related technical studies for the car wash facility, and reviewed by City Staff. The documents were properly circulated for public review in accordance with the California Environmental Quality Act Guidelines. The Mitigated Negative Declaration/Initial Study has been completed along with the Mitigation Monitoring and Reporting Program (MMRP) to ensure compliance with all mitigation through project implementation. All environmental documents that comprise the Mitigated Negative Declaration, including all technical studies were independently reviewed by the City. On the basis of the whole record, there is no substantial evidence that the Project as designed, conditioned, and mitigated, will have a significant effect on the environment. The Mitigated Negative Declaration prepared and completed, in accordance with the CEQA Guidelines, reflects the independent judgment and analysis of the City.

Attachment: Resolution 2017-44 [Revision 3](2913:PEN16-0113 Plot Plan)

THEREFORE THE PLANNING COMMISSION OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY APPROVE Resolution No. 2017- 44, and:

- 1. **CERTIFY** that the Mitigated Negative Declaration prepared for Plot Plan PEN16-0113 on file with the Community Development Department, incorporated herein by this reference, has been completed in compliance with the California Environmental Quality Act, that the Planning Commission reviewed and considered the information contained in the Mitigated Negative Declaration and the document reflects the City's independent judgment and analysis; attached hereto as Exhibit A and
- 2. **ADOPT** the Mitigation Monitoring and Reporting Program prepared for Plot Plan PEN16-0113, attached hereto as Exhibit B.

APPROVED AND ADOPTED this 21st day of December, 2017.

AYES: NOES: ABSTAIN:

> Jeffrey Barnes Chair, Planning Commission

ATTEST:

Richard J. Sandzimier, Planning Official Secretary to the Planning Commission

APPROVED AS TO FORM:

City Attorney

Exhibit A and Exhibit B

Sunnymead Car Wash Initial Study Mitigated Negative Declaration

Lead Agency:

City of Moreno Valley Planning Division 14177 Frederick Street P.O. Box 88005 Moreno Valley, California 92552



Prepared for:

Alisam Moreno Valley, LLC c/o Tri-Millennium Properties/P&N Construction 8730 Wilshire Boulevard, Suite 202 Beverly Hills, California 90211

Prepared by:

MIG, Inc. 1500 Iowa Avenue, Suite 110 Riverside, California 92507



November 2017

- This document is designed for double-sided printing -

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1 Introduction

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The City of Moreno Valley (Lead Agency) received an application from Alisam Moreno Valley, LLC (Project Proponent) for the development of an automated car wash on a 1.68-acre site in the City of Moreno Valley, California. The approval of the application constitutes a *project* that is subject to review under the California Environmental Quality Act (CEQA) 1970 (Public Resources Code §§ 21000, *et seq.*), and the CEQA Guidelines (14 California Code of Regulations §§ 15000, *et. seq.*).

This Initial Study was prepared to assess the short-term, long-term, and cumulative environmental impacts that could result from the proposed project.

This report was prepared to comply with CEQA Guidelines § 15063, which sets forth the required contents of an Initial Study. These include:

- A description of the project, including the location of the project (See Section 2);
- Identification of the environmental setting (See Section 2.11);
- Identification of environmental effects by use of a checklist, matrix, or other methods, provided that entries on the checklist or other form are briefly explained to indicate that there is some evidence to support the entries (See Section 4);
- Discussion of ways to mitigate significant effects identified, if any (See Section 4);
- Examination of whether the project is compatible with existing zoning, plans, and other applicable land use controls (See Section 4.10); and
- The name(s) of the person(s) who prepared or participated in the preparation of the Initial Study (See Section 5).

1.1 – Purpose of CEQA

CEQA § 21000 of the California Public Resources Code provides as follows:

The Legislature finds and declares as follows:

- a) The maintenance of a quality environment for the people of this state now and in the future, is a matter of statewide concern.
- b) It is necessary to provide a high-quality environment that at all times is healthful and pleasing to the senses and intellect of man.
- c) There is a need to understand the relationship between the maintenance of high-quality ecological systems and the general welfare of the people of the state, including their enjoyment of the natural resources of the state.
- d) The capacity of the environment is limited, and it is the intent of the Legislature that the government of the state take immediate steps to identify any critical thresholds for the health and safety of the people of the state and take all coordinated actions necessary to prevent such thresholds being reached.
- e) Every citizen has a responsibility to contribute to the preservation and enhancement of the environment.
- f) The interrelationship of policies and practices in the management of natural resources and waste disposal requires systematic and concerted efforts by public and private interests to enhance environmental quality and to control environmental pollution.
- g) It is the intent of the Legislature that all agencies of the state government which regulate activities of private individuals, corporations, and public agencies which are found to affect the quality of the environment, shall regulate such activities so that major consideration is given to preventing environmental damage, while providing a decent home and satisfying living environment for every Californian.

The Legislature further finds and declares that it is the policy of the state to:

h) Develop and maintain a high-quality environment now and in the future, and take all action necessary to protect, rehabilitate, and enhance the environmental quality of the state.

2.e

Introduction

- i) Take all action necessary to provide the people of this state with clean air and water, enjoyment of aesthetic, natural, scenic, and historic environmental qualities, and freedom from excessive noise.
- j) Prevent the elimination of fish or wildlife species due to man's activities, insure that fish and wildlife populations do not drop below self-perpetuating levels, and preserve for future generations representations of all plant and animal communities and examples of the major periods of California history.
- k) Ensure that the long-term protection of the environment, consistent with the provision of a decent home and suitable living environment for every Californian, shall be the guiding criterion in public decisions.
- I) Create and maintain conditions under which man and nature can exist in productive harmony to fulfill the social and economic requirements of present and future generations.
- m) Require governmental agencies at all levels to develop standards and procedures necessary to protect environmental quality.
- Require governmental agencies at all levels to consider qualitative factors as well as economic and technical factors and long-term benefits and costs, in addition to short-term benefits and costs and to consider alternatives to proposed actions affecting the environment.

A concise statement of legislative policy, with respect to public agency consideration of projects for some form of approval, is found in CEQA § 21002, quoted below:

The Legislature finds and declares that it is the policy of the state that public agencies should not approve projects as proposed if there are feasible alternatives or feasible mitigation measures available which would substantially lessen the significant environmental effects of such projects, and that the procedures required by this division are intended to assist public agencies in systematically identifying both the significant effects of proposed projects and the feasible alternatives or feasible mitigation measures which will avoid or substantially lessen such significant effects. The Legislature further finds and declares that in the event specific economic, social, or other conditions make infeasible such project alternatives or such mitigation measures, individual projects may be approved in spite of one or more significant effects thereof.

1.2 – Public Comments

Comments from all agencies and individuals are invited regarding the information contained in this Initial Study. Such comments should explain any perceived deficiencies in the assessment of impacts, identify the information that is purportedly lacking in the Initial Study or indicate where the information may be found. All materials related to the preparation of this Initial Study are available for public review. To request an appointment to review these materials, please contact

Gabriel Diaz, Associate Planner Planning Division 14177 Frederick Street P.O. Box 88005 Moreno Valley, California 92552 951-413-3206

Following a 20-day period of circulation and review of the Initial Study, all comments will be considered by the City of Moreno Valley prior to adoption. All materials related to the preparation of this Initial Study are available for public review. To request an appointment to review these materials, please contact the Planning Division.

Attachment: Exhibit A Initial Study Mitigated Negative Declaration (2913 : PEN16-0113 Plot Plan)

2.1 – Project Title

Sunnymead Car Wash

2.2 – Lead Agency Name and Address

City of Moreno Valley Planning Division 14177 Frederick Street P.O. Box 88005 Moreno Valley, California 92552 951-413-3206

2.3 – Contact Person and Phone Number

Gabriel Diaz, Associate Planner 951-413-3226

2.4 – Project Location

The project site is located in the City of Moreno Valley, Riverside County, California (See Exhibit 1, Regional Context and Vicinity Map). The project site is bounded by commercial uses to the west, south, and east and State Route 60 (SR-60) to the north.

- Latitude 33° 56' 23.85" North, Longitude 117° 14' 41.44" West
- APN 292-160-023
- Sunnymead Boulevard east of Loraine Terrace and west of Heacock Street

2.5 – Project Sponsor's Name and Address

Alisam Moreno Valley, LLC c/o Tri-Millennium Properties/P&N Construction 8730 Wilshire Boulevard, Suite 202 Beverly Hills, California 90211

2.6 – General Plan Land Use Designation

The project site is designated Commercial by the City of Moreno Valley General Plan Land Use Element.

2.7 – Zoning District

The City of Moreno Valley Zoning Ordinance designates the project site as Community Commercial.

2.8 – Project Description

The proposed project is located on approximately 1.68 acres. The project site is currently vacant consisting of disturbed land and limited paving. The project includes the construction of an automated car wash with vacuum canopy and associated

Project Description

parking (see Exhibit 2, Site Plan). The 5,424-square foot car wash structure would include an enclosed car wash tunnel, enclosed area for mechanical equipment, one men's restroom, one women's restroom, office space, cashier space, and storage space. Two rows of vacuum canopies would be provided so that users of the car wash can then vacuum their vehicles on site. A total of 39 parking stalls would be provided, including two clean air vehicle stalls and two Americans with Disabilities Act accessible parking stalls.

Access to the site would be provided via a 36-foot wide driveway, with one 20-foot wide inbound lane and one 16-foot wide outbound lane on Sunnymead Boulevard. Upon entering the site, two lanes are provided for cars to line up at four automated cashier pay stations with barrier gate arms to pay for their wash and wait their turn. The automated barrier gate arms would allow one vehicle through the car wash tunnel at a time. Upon exiting the car wash tunnel, cars will be directed to the parking spaces and vacuum stations via a one-way interior lane. To exit the site, cars would continue on the one-way lane and loop back out to the driveway on Sunnymead Boulevard. The height of the tunnel entry and exit openings is 10 feet. Two 10-foot high sound walls will be constructed to comply with the City's noise ordinance. One will extend northward 30 feet from the northwest corner of the building and the second wall will extend southward 30 feet from the southwest corner of the building.

Architecturally, the proposed car wash structure would be comprised of a terra cotta tile roof, stucco exterior walls with stone accents, and green exposed beams. Various shades of brown and tan as well as stone accents are utilized to provide contrast and visual interest. One window on the eastern side of the building would be provided for the office space. (see Exhibit 3, Elevations).

Landscaping

The project would consist of approximately 15,000 square feet of landscaped area to include shrubs and trees along the boundaries of the site and along drive aisles. These landscaped areas would also serve as bio swales for runoff collection and treatment.

Project Phasing and Construction Scheduling

Based on default construction phasing information provided by the California Emissions Estimator Model (CalEEMod), construction of the project would take approximately ten months to complete. Approximately 500 cubic yards of soil is anticipated to be removed to make room for underground water storage tanks and the footings of the car wash.

Grading and Drainage

The project site is vacant. Stormwater would be collected on site and conveyed to the various on-site bio swales for treatment. Then, stormwater would be pumped south to the City's stormwater drainage system at Sunnymead Boulevard.

Utilities

The proposed project will connect to existing water, sanitary sewer, electricity, and gas facilities. Water and sewer service is provided by the Eastern Municipal Water District. Electricity would be provided by Southern California Edison and natural gas will be provided by the Southern California Gas Company. Utility undergrounding would be required.

2.9 – Surrounding Land Uses

The project site is bounded by commercial uses to the west, south, and east and State Route 60 (SR-60) to the north. Surrounding uses are summarized in Table 1 (Surrounding Land Uses).

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Surrounding Land Uses			
Direction	General Plan Designation	Zoning District	Existing Land Use
Project Site	Commercial	Community Commercial	Vacant
North	Highway	Highway	SR-60
South	Commercial	Community Commercial	Commercial - Retail
East	Commercial	Community Commercial	Fast Food Restaurants Service Station (Chevron)
West	Commercial	Community Commercial	Commercial – Auto Care

Table 1 Surrounding Land Uses

2.10 – Environmental Setting

The project is located on a vacant site in a developed area in the City of Moreno Valley, Riverside County, California. The project site is surrounded by commercial and residential uses and the area is built-out and urbanized. Disturbed non-native vegetation and limited pavement is located on the site. The site is bound to the west, south, and east by commercial development and to the north by State Route 60 (SR-60). Interstate 215 is located approximately 2.6 miles to the west of the project site. The project site is relatively flat with an elevation ranging between approximately 1,640 to 1,647 feet above mean sea level (AMSL).

- The site does not contain scenic resources.
- The site is not currently being used for agricultural purposes.
- On-site vegetation consists of disturbed non-native vegetation and pavement and does not provide suitable habitat for any sensitive, or special status species.
- There are no on-site water features indicative of potential riparian habitat or wetlands.
- The site does not contain any historic structures.

2.11 – Required Approvals

The City of Moreno Valley is the only land use authority for this project requiring the following approvals:

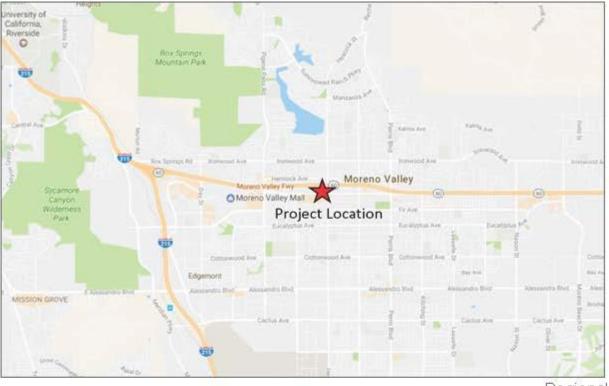
• Plot Plan

2.12 – Other Public Agency Whose Approval is Required

None

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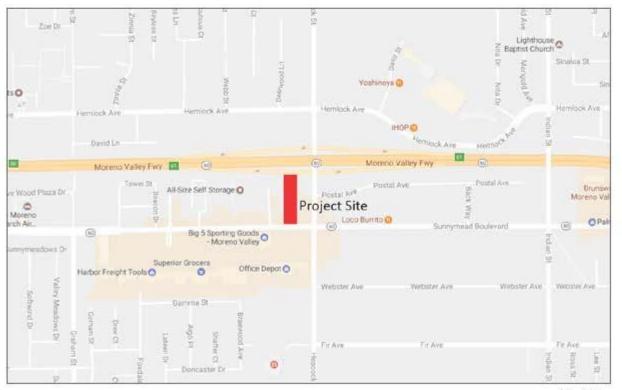




Exhibit 1 Regional Context and Vicinity Mar

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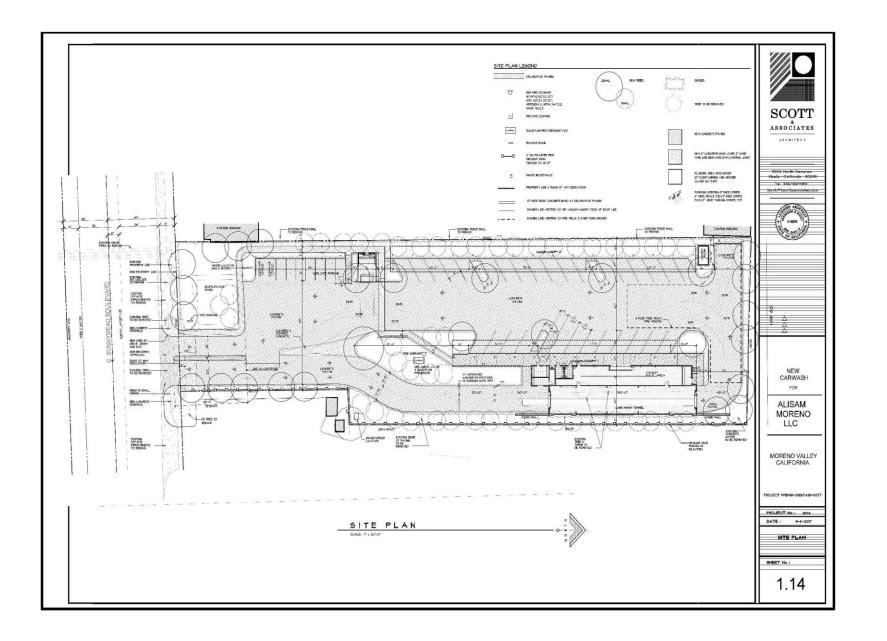


Exhibit 2- Site Plan Sunnymead Car Wash City of Moreno Valley, California

http://www.migcom.com • 951-787-9222



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Exhibit 3- Elevations Sunnymead Car Wash

City of Moreno Valley, California

http://www.migcom.com • 951-787-9222



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3.1 – Environmental Factors Potentially Affected

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a 'Potentially Significant Impact' as indicated by the checklist on the following pages.

Aesthetics	Agriculture Resources	Air Quality
Biological Resources	Cultural Resources	Geology /Soils
Greenhouse Gas Emissions	Hazards & Hazardous Materials	Hydrology / Water Quality
Land Use / Planning	Mineral Resources	Noise
Population / Housing	Public Services	Recreation
Transportation/Traffic	Tribal Cultural Resources	Utilities / Service Systems
Mandatory Findings of Significance		

3.2 – Determination

I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
I find that the proposed project MAY have a 'potentially significant impact' or 'potentially significant unless mitigated' impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Name: Gabriel Diaz, Associate Planner

Date

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4.1 – Aesthetics

Would the project:

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Have a substantial adverse effect on a scenic vista?				
b)	Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within view from a state scenic highway?				
c)	Substantially degrade the existing visual character or quality of the site and its surroundings?				
d)	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?				

a) No Impact. Scenic vistas can be impacted by development in two ways. First, a structure may be constructed that blocks the view of a vista. Second, the vista itself may be altered (i.e., development on a scenic hillside). According to the City of Moreno Valley General Plan Update EIR, the primary scenic resources within the City include the Box Springs Mountains and the Badlands to the north and the Mount Russell foothills to the south.¹ The proposed project is located on a vacant site located immediately south of the Pomona Freeway (SR-60), within a fully urbanized area visually dominated by commercial uses, auto care uses, and surface streets. This site is not considered to be within or to comprise a portion of a scenic vista.² As discussed in the General Plan Update EIR, compliance with Municipal Code guidelines and regulations on height would ensure that views of scenic resources would be preserved.³ The project is located within a commercial area that is comprised of one- to two-story buildings and is immediately south of SR-60. Views of the surrounding hillsides from the project site are obstructed by existing development and landscaping and are limited. Views of the hillsides to the south are limited, but visible from SR-60, which the General Plan designates as a local scenic roadway. SR-60 is an elevated highway, and views to the south would not be obstructed by the proposed project. The proposed car wash building would be developed at a maximum height of 29 feet and one inch at its highest point. Because the proposed development would not result in structures greater in height than currently exists in the vicinity, development of the proposed project and accessory landscaping elements would have no effect on a scenic vista. As such, the proposed project would result in no impact with respect to view of a scenic vista.

b) **No Impact.** The project is not adjacent to a designated state scenic highway or eligible state scenic highway as identified on the California Scenic Highway Mapping System.⁴ According to the General Plan EIR, SR-60 is designated as a local scenic road.⁵ The project site is located in an urbanized area, and contains no trees, rock outcroppings, or historically significant buildings (see Section 4.5 Cultural Resources) that would constitute a scenic resource. Therefore, no impact to scenic resources visible from a state scenic highway local scenic road would occur.

c) Less than Significant Impact. Development of the proposed project could result in a significant impact if it resulted in substantial degradation of the existing visual character or quality of the site and its surroundings. Degradation of visual character or quality is defined by substantial changes to the existing site appearance through construction of structures such that they are poorly designed or conflict with the site's existing surroundings.

Construction of the proposed project would result in short-term impacts to the existing visual character and quality of the area. Construction activities would require the use of equipment and storage of materials within the project site. However, construction activities are temporary and would not result in any permanent visual impact.

The project site is currently vacant and disturbed. Project construction would result in the removal of any non-native vegetation, which would result in a temporary change to the aesthetic environment. Construction of the proposed car wash would alter the existing visual character of the site. The proposed project is similar in use as the auto car facilities to the west and the service station to the east. Surrounding uses are generally one story in height. The surrounding area is not visually distinct and does not portray a particular architectural theme or aesthetic.

Upon project completion, the proposed project would consist of one car wash facility that includes a car wash tunnel, office, restrooms, vacuum area, and parking. Access to the site will be provided via Sunnymead Boulevard. The building heights will vary from 10 feet for the covered vacuum area, and 29 feet and on inch at its highest point from ground level. Section 9.04.030 of the Moreno Valley Municipal Code does not specify a height restriction for commercial uses. The building would have a Tuscan design, with primarily stone and tile finishes (see Exhibit 3, Elevations). With an architectural theme to include terra cotta tile, Tuscan mosaic, and exposed framing, the project would improve the visual character and quality of this site and reflect an improvement to its surroundings.

Once constructed, the proposed project would represent a new feature within the primarily commercial area. Because of the commercial uses in the immediate vicinity of the project site, the addition of the proposed project would provide a new architectural aesthetic in an area that is older in character and would not conflict with the existing character, but enhance it. With specified design features included, the project would have less than significant impacts on the visual character of the site and the surroundings.

d) Less than Significant Impact. Excessive or inappropriately directed lighting can adversely impact night-time views by reducing the ability to see the night sky and stars. Glare can be caused from unshielded or misdirected lighting sources. Reflective surfaces (i.e., polished metal) can also cause glare. Impacts associated with glare range from simple nuisance to potentially dangerous situations (i.e., if glare is directed into the eyes of motorists). Sources of daytime glare are typically concentrated in commercial areas and are often associated with retail uses. Glare results from development and associated parking areas that contain reflective materials such as hi-efficiency window glass, highly polished surfaces, and expanses of pavement.

There are lighting sources adjacent to this site, including free-standing street lights, light fixtures on buildings, and polemounted lights. The proposed project includes exterior street lighting and interior lighting. Light spillover and glare would be avoided by requiring that light be designed to project downward and prohibiting the creation of glare on adjacent properties per the requirements of Municipal Code Section 9.10.110. Further, Section 9.10.110 of the Municipal Code prohibits illumination that exceeds 0.5 footcandles at adjacent properties. Compliance with the Municipal Code standards for lighting and glare would ensure that lighting and glare impacts would be less than significant.

4.2 – Agriculture and Forest Resources

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non- agricultural use?				
b)	Conflict with existing zoning for agricultural use, or a Williamson Act contract?				
c)	Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104 (g))?				
d)	Result in loss of forest land or conversion of forest land to non-forest use?				✓
e)	Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?				

a) **No Impact.** The proposed project would be located in a fully developed, urbanized area that does not contain agriculture or forest uses. The Important Farmland in California (2014) prepared by the Department of Conservation identifies the project site as Urban and Built-Up Land and does not identify the project site as being Prime Farmland, Unique Farmland, or Farmland of Statewide Importance.⁶ Therefore, there would be no conversion of Prime Farmland, Unique Farmland, and Farmland of Statewide Importance to a non-agricultural use as a result of this project. No impact would occur.

b) **No Impact.** No Williamson Act contracts are active for the project site.⁷ Therefore, there would be no conflict with existing zoning for agricultural use or a Williamson Act contract. No impact would occur.

c) **No Impact.** Public Resources Code § 12220(g) identifies forest land as *land that can support 10-percent native tree cover of any species, including hardwoods, under natural conditions, and that allows for management of one or more forest resources, including timber, aesthetics, fish and wildlife, biodiversity, water quality, recreation, and other public benefits.* The project site and surrounding properties are not currently being managed or used for forest land as identified in Public Resources Code § 12220(g). The project site has already been disturbed, is surrounded by development, and located immediately south of SR-60. Therefore, development of this project would have no impact to any timberland zoning.

d) **No Impact.** The project site is vacant, disturbed land with limited non-native vegetation; thus, there would be no loss of forest land or conversion of forest land to non-forest use as a result of this project. No impact would occur.

e) **No Impact.** The project site is a vacant site within an urban environment. The project is surrounded by commercial and auto care uses, SR-60, and surface streets. None of the surrounding sites contain existing forest uses. Development of this proposed project would not change the existing environment in a manner that would result in the conversion of forest land to a non-forest use. No impact would occur.

2.e

4.3 – Air Quality

Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Conflict with or obstruct implementation of the applicable air quality plan?				
b)	Violate any air quality standard or contribute substantially to an existing or projected air quality violation?				
c)	Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?				
d)	Expose sensitive receptors to substantial pollutant concentrations?				
e)	Create objectionable odors affecting a substantial number of people?				

a) **No Impact.** A significant impact could occur if the proposed project conflicts with or obstructs implementation of the South Coast Air Basin 2016 Air Quality Management Plan (AQMP). Conflicts and obstructions that hinder implementation of the AQMP can delay efforts to meet attainment deadlines for criteria pollutants and maintaining existing compliance with applicable air quality standards. Pursuant to the methodology provided in Chapter 12 of the 1993 SCAQMD CEQA Air Quality Handbook, consistency with the South Coast Air Basin 2016 AQMP is affirmed when a project (1) does not increase the frequency or severity of an air quality standards violation or cause a new violation and (2) is consistent with the growth assumptions in the AQMP.⁸ Consistency review is presented below:

(1) The proposed project would result in short-term construction and long-term pollutant emissions that are less than the CEQA significance emissions thresholds established by the SCAQMD, as demonstrated herein; therefore, the project would not result in an increase in the frequency or severity of any air quality standards violation and would not cause a new air quality standard violation.

(2) The CEQA Air Quality Handbook indicates that consistency with AQMP growth assumptions must be analyzed for new or amended General Plan elements, Specific Plans, and *significant projects*. *Significant projects* include airports, electrical generating facilities, petroleum and gas refineries, designation of oil drilling districts, water ports, solid waste disposal sites, and off-shore drilling facilities. This project is not defined as *significant* and does not include a General Plan Amendment. Therefore, the project would not require a consistency analysis with the AQMP.

Based on the above, the proposed project would not conflict with the AQMP; no impact would occur.

b) Less than Significant Impact. A project may have a significant impact if project-related emissions would exceed federal, state, or regional standards or thresholds, or if project-related emissions would substantially contribute to existing or project air quality violations. The proposed project is located within the South Coast Air Basin, where efforts to attain state and federal air quality standards are governed by the South Coast Air Quality Management District (SCAQMD). Both the state of California (state) and the federal government have established health-based ambient air guality standards (AAQS) for seven air pollutants (known as 'criteria pollutants'). These pollutants include ozone (O_3) , carbon monoxide (CO), nitrogen dioxide (NO₂), sulfur dioxide (SO₂), inhalable particulate matter with a diameter of 10 microns or less (PM₁₀), fine particulate matter with a diameter of 2.5 microns or less (PM_{2.5}), and lead (Pb). The state has also established AAQS for additional pollutants. The AAQS are designed to protect the health and welfare of the populace within a reasonable margin of safety. Where the state and federal standards differ, California AAQS are more stringent than the national AAQS.

Air pollution levels are measured at monitoring stations located throughout the air basin. Areas that are in nonattainment with respect to federal or state AAQS are required to prepare plans and implement measures that will bring the region into attainment. Table 2 (South Coast Air Basin Attainment Status) summarizes the attainment status in the project area for the criteria pollutants. Discussion of potential impacts related to short-term construction impacts and long-term area source and operational impacts are presented below.

South Coast Air Basin Attainment Status							
Pollutant	Federal	State					
O ₃ (1-hr)		Nonattainment					
O ₃ (8-hr)	Nonattainment	Nonattainment					
PM ₁₀	Attainment	Nonattainment					
PM _{2.5}	Nonattainment	Nonattainment					
CO	Attainment	Attainment					
NO ₂	Attainment	Attainment					
SO ₂	Attainment	Attainment					
Pb	Nonattainment	Attainment					
Sources: ARB							

Table 2

Construction Emissions

The California Emissions Estimator Model (CalEEMod) version 2016.3.1 was utilized to estimate emissions from the proposed construction activities (see Appendix A, Air Quality and Climate Change Assessment). CalEEMod default construction phase lengths were utilized. The proposed project would take approximately ten months to complete.

Short-term criteria pollutant emissions would occur during grading, building construction, paving, and coating activities. Emissions will occur from use of equipment, worker, vendor, and hauling trips, and disturbance of on-site soils (fugitive dust). To determine if construction of the proposed project could result in a significant air quality impact, the California Emissions Estimator Model (CalEEMod) has been utilized. An estimated 500 cubic yards of soil would be removed during grading activities to make room for underground water storage tanks and the footings of the car wash.

The results of the model are summarized in Table 3 (Maximum Daily Construction Emissions). The model indicates that construction emissions would not exceed SCAQMD daily thresholds for any criteria pollutant.

Maximum Daily Construction Emissions (Ibs/day)								
	ROG	NOx	CO	SO ₂	PM ₁₀	PM _{2.5}		
Maximum	8.22	23.68	16.47	0.03	6.18	3.46		
Threshold	75	100	550	150	150	55		
Potentially Significant?	No	No	No	No	No	No		
Source: MIG 2017								

Table 3 Maximum Daily Construction Emissions (Ibs/day

Operational Emissions

Operation of the proposed car wash facility would result in long-term criteria air pollutant emissions. Long-term emissions are categorized as area source emissions, energy demand emissions, and operational emissions. Operational emissions would result from vehicle sources associated with daily trips to and from the proposed car wash. Area source emissions are the combination of many small emission sources that include use of outdoor landscape maintenance equipment, use of consumer products, and periodic repainting of the small structure. Energy demand emissions result from use of electricity and natural gas.

The proposed car wash consists of one automated tunnel with five underground storage tanks to reclaim and recycle water. Water use for the car wash was estimated at 20 gallons per vehicle – though each individual vehicle washed would require more water, the Project Proponent estimates that the car wash would recycle up to 90% of all water used. As such, 20 gallons per vehicle is likely an overestimation for total water usage. Number of vehicles washed was estimated at 450 daily, based on a Trip Generation Manual from the City of San Diego for similar facilities. ⁹ San Diego exhibits similar characteristics to the rest of Southern California, making this trip rate applicable in Moreno Valley as well. With a resulting total of 164,250 vehicles washed annually, total water demand is estimated at 3,285,000 gallons per year. It has also been assumed that approximately 4.2312 kilowatt hours (kWh) of electricity is consumed per vehicle washed. Because data are not widely available on energy consumption by the type of vacuums used at these types of facilities, use has been overestimated, as well as the minimal energy that would be used by the small structure for employees.

CalEEMod was utilized to estimate mobile source emissions. As mentioned above, trip generation is based the "full service car wash" entry from the City of San Diego's Trip Generation Manual. CalEEMod also includes default outdoor water demand for landscape irrigation. Default inputs for all operational source were used for the project. Daily operational emissions as estimated by CalEEMod are summarized in Table 4 (Operational Daily Emissions). Operational emissions generated by operation of the proposed project would not exceed the thresholds established by SCAQMD.

	Table 4							
Operational Daily Emissions (Ibs/day)								
Source	ROG	NOx	CO	SO ₂	PM ₁₀	PM _{2.5}		
Summer								
Area Sources	0.17	0.00	0.01	0.00	0.00	0.00		
Energy Demand	0.00	0.00	0.00	0.00	0.00	0.00		
Mobile Sources	0.95	4.53	12.54	0.04	3.08	0.85		
Summer Total	1.12	4.53	12.54	0.04	3.08	0.85		
Winter								
Area Sources	0.17	0.00	0.01	0.00	0.00	0.00		
Energy Demand	0.00	0.00	0.00	0.00	0.00	0.00		
Mobile Sources	0.92	4.65	11.85	0.04	3.08	0.85		
Winter Total	1.09	4.65	11.86	0.04	3.08	0.85		
SCAQMD Daily Threshold	55	55	550	150	150	55		
Potentially Significant?	No	No	No	No	No	No		
Source: MIG 2017								

Evaluation of Environmental Impacts

c) Less than Significant Impact. Cumulative short-term, construction-related emissions and long-term, operational emissions from the proposed project would not contribute considerably to any potential cumulative air quality impact because short-term project and operational emissions would not exceed any SCAQMD daily threshold. As required of the proposed project, other concurrent construction projects and operations in the region would be required to implement standard air quality regulations and mitigation pursuant to state CEQA requirements, thus ensuring that air quality standards are not cumulatively exceeded. Impacts would be less than significant.

d) Less than Significant Impact. Sensitive receptors are those segments of the population that are most susceptible to poor air quality such as children, the elderly, the sick, and athletes who perform outdoors. Land uses associated with sensitive receptors include residences, schools, playgrounds, childcare centers, outdoor athletic facilities, long-term health care facilities, rehabilitation centers, convalescent centers, and retirement homes. Specific sensitive receptors within one-quarter mile of the project site include residential uses to the west of the project site. The proposed development would not generate toxic air contaminant emissions because the proposed uses do not produce such emissions. The proposed development, therefore, would have no impact on sensitive receptors related to toxic pollutant emissions.

Carbon Monoxide Hotspots

A carbon monoxide (CO) hotspot is an area of localized CO pollution that is caused by severe vehicle congestion on major roadways, typically near intersections. CO hotspots have the potential to violate State and Federal CO standards at intersections, even if the broader Air Basin is in attainment for Federal and State levels. The California Department of Transportation Project-Level Carbon Monoxide Protocol (Protocol) screening procedures have been utilized to determine if the proposed project could potentially result in a CO hotspot. Based on the recommendations of the Protocol, a screening analysis should be performed for the proposed project to determine if a detailed analysis will be required. The California Department of Transportation notes that because of the age of the assumptions used in the screening procedures and the obsolete nature of the modeling tools utilized to develop the screening procedures in the Protocol, they are no longer accepted. More recent screening procedures based on more current methodologies have been developed. The Sacramento Metropolitan Air Quality Management District (SMAQMD) developed a screening threshold in 2011 which states that any project involving an intersection experiencing 31,600 vehicles per hour or more will require detailed analysis. In addition, the Bay Area Air Quality Management District developed a screening threshold in 2010 which states that any project involving an intersection experiencing 44,000 vehicles per hour would require detailed analysis. A traffic study was not required for this project. According to the City of Moreno Valley's traffic counts provided on the City's website, the intersection of Heacock Street and Sunnymead Boulevard does not experience this level of traffic;¹⁰ therefore, the project passes the screening analysis and impacts are deemed acceptable. Based on the local analysis procedures, the proposed project would not result in a CO hotspot.

Localized Significance Thresholds

As part of SCAQMD's environmental justice program, attention has recently been focusing more on the localized effects of air quality. Although the region may be in attainment for a particular criteria pollutant, localized emissions from construction activities coupled with ambient pollutant levels can cause localized increases in criteria pollutant that exceed national and/or state air quality standards.

Construction-related criteria pollutant emissions and potentially significant localized impacts were evaluated pursuant to the SCAQMD Final Localized Significance Thresholds Methodology. This methodology provides screening tables for one through five-acre project scenarios, depending on the amount of site disturbance during a day. Maximum daily oxides of nitrogen (NO_X), carbon monoxide (CO), and particulate matter (PM₁₀ and PM_{2.5}) emissions would occur during construction of the project, grading of the project site, and paving. It should be noted that the results summarized in Table 5 (Two Acre Localized Significance Threshold Analysis) include application of SCAQMD Rule 403 and requires (the utilization of applicable best management practices to minimize fugitive dust emissions. A 61 percent reduction in fugitive dust emissions is assumed based on rule requirements. Table 5 summarizes on-site emissions as compared to the local thresholds established for Source Receptor Area (SRA) 24 (Perris Valley). A 25-meter receptor distance was used to reflect the proximity of nearby residential and commercial uses to the project site. No construction phase would exceed any localized threshold as summarized in Table 5.

Evaluation of Environmental Impacts

Two Acre Localized Significance Threshold Analysis							
Construction Activity	CO	NOx	PM ₁₀	PM _{2.5}			
Grading	7.03	18.29	5.79	3.33			
Building Construction	14.36	19.24	1.23	1.19			
Paving	8.99	10.45	0.61	0.56			
Architectural Coating	1.85	2.01	0.15	0.15			
Maximum	14.36	19.24	5.79	3.33			
Threshold	883	170	7	4			
Potentially Significant?	No	No	No	No			
Source: MIG 2017							

Table 5 o Acre Localized Significance Threshold Analysis

e) **No Impact.** According to the CEQA Air Quality Handbook, land uses associated with odor complaints include agricultural operations, wastewater treatment plants, landfills, and certain industrial operations (such as manufacturing uses that produce chemicals, paper, etc.). Odors are typically associated with industrial projects involving the use of chemicals, solvents, petroleum products, and other strong-smelling elements used in manufacturing processes, as well as sewage treatment facilities and landfills. The proposed development does not include any of the above noted uses or process; no impact would occur.

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Initial Study

Packet Pg. 154

4.4 – Biological Resources

Would the project:

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?				
b)	Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or US Fish and Wildlife Service?				
c)	Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				
d)	Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				
e)	Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				
f)	Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				

Evaluation of Environmental Impacts

A biological resource assessment was prepared by MIG and included as Appendix B. The purpose of the assessment was to verify the type, location, and extent of potential sensitive biological resources within the project site and vicinity. In addition, a burrowing owl habitat assessment was completed to determine the potential for burrowing owl to occur on the project site.

a) Less than Significant Impact with Mitigation Incorporated. The project site is vacant and showed signs of recent disking during the field survey. The project site is not identified as critical habitat for threatened and endangered species.¹¹ According to the biological resource assessment, no special-status plant species have been documented in the vicinity of the project site or have the potential to occur on the project site due to the absence of essential habitat requirements for the species, the absence of known occurrences within five miles of the project site, and/or the project site is outside the species known range of distribution. No impacts are anticipated to occur on the project site.

Although suitable burrowing habitat is present on site in the disturbed plant communities, burrowing owls are not expected to occur in or around the project site due to the lack of suitable burrows. However, Mitigation Measure BIO-1 has been incorporated. Mitigation Measure BIO-1 requires that pre-construction surveys be conducted within 14 days prior to ground disturbance to avoid take of burrowing owls. With incorporation of mitigation, impacts would be less than significant.

No other special-status wildlife species were observed on the project site or have the potential to occur on site due to the absence of suitable habitat.

Although no active nests were observed during the field survey, there is potential for ground-, tree-, and shrub-nesting birds to establish nests in and around the project site in the future. Therefore, Mitigation Measures BIO-2 and BIO-3 have been incorporated. Mitigation Measure BIO-2 requires that construction activities occur outside of the avian nesting season. If construction occurs during the nesting season, all suitable habitat shall be thoroughly surveyed for the presence of nests no more than five days prior to soil disturbance or vegetation removal. In the event that active nests are located, Mitigation Measure BIO-3 requires that a buffer be established, and protective measures as required by the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code. With incorporation of mitigation, impacts would be less than significant.

Mitigation Measures

- BIO-1 All project sites containing burrowing owl habitat or burrows (based on Step 1 Habitat Assessment) whether owls were found or not, require pre-construction surveys that shall be conducted within 14 days prior to ground disturbance to avoid direct take of burrowing owls.
- **BIO-2** To avoid impacts to nesting birds, construction activities and construction noise should occur outside the avian nesting season (February 1 to September 1). If construction occurs within the avian nesting season, all suitable habitats shall be thoroughly surveyed for the presence of nests by a qualified biologist no more than five days prior to commencement of any soil disturbance or vegetation removal. If it is determined that the project site is occupied by nesting birds, Mitigation Measure BIO-3 would reduce impacts to less than significant levels.
- **BIO-3** If pre-construction nesting bird surveys locate active nests, no construction-related activities shall "take" place within 300 feet of sensitive bird nests and 500 feet of raptor nests, or as determined by a qualified biologist. Protective measures (e.g., sampling) shall be required to ensure compliance with the MBTA and relevant California Fish and Game Code requirements.

b-c) **No Impact.** The project site is vacant. According to the federal National Wetlands Inventory, the project site does not contain any riparian habitat or wetlands and the proposed project would not disturb any offsite wetlands.¹² There is no vegetation or on-site water features indicative of potential wetlands. No impact would occur.

Attachment: Exhibit A Initial Study Mitigated Negative Declaration (2913 : PEN16-0113 Plot Plan)

Evaluation of Environmental Impacts

d) **No Impact.** The project site is vacant and surrounded to the north, south, east, and west by development and roadways, preventing the use of the project site and surrounding area as a wildlife corridor. There are no substantial vegetated areas or waterbodies located onsite that could serve as habitat. The project site does not provide for the movement of any native resident or migratory fish or wildlife. No impact would occur.

e) **No Impact.** The project site is vacant. The City of Moreno Valley General Plan includes measures related to compliance with the long-term habitat conservation plan (HCP) for the Stephen's Kangaroo Rat, the Western Riverside County MSHCP. The occurrence of and suitability of the project site for Stephen's Kangaroo Rat was not observed. Therefore, the project would not conflict with those measures. As discussed below and in the biological resource assessment, the project would not conflict with the Western Riverside County MSHCP. No impact would occur.

f) **No Impact.** The project site is located within the Western Riverside County MSHCP Reche Canyon/Badlands Area Plan. However, the project site is not located within an MSHCP criteria area or area plan subunit. The project site does not occur within a predetermined Survey Area for narrow endemic plant species, criteria area plant species, amphibian species, burrowing owl, or mammal species. Therefore, no surveys are required for these species.

No riparian resources, riverine resources, or vernal pools pursuant to Section 6.1.2 of the MSHCP were identified on the project site. The project site does not occur within or adjacent to an MSHCP Core, Linkage, Constrained Linkage, or Non-Contiguous Habitat Block. Therefore, an Urban/Wildlife Interface analysis pursuant to Section 6.1.4 of the MSHCP is not required. No impacts would occur.

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4.5 – Cultural Resources

Would the project:

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Cause a substantial adverse change in the significance of a historical resource as defined in '15064.5?				
b)	Cause a substantial adverse change in the significance of an archaeological resource pursuant to '15064.5?				
c)	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?				
d)	Disturb any human remains, including those interred outside of dedicated cemeteries?				

A Phase I Cultural Resources Inventory for the proposed project was prepared by PAST, INC, attached as Appendix C.

a) **No Impact.** The project site is currently vacant, and no structures are located on site. As such, the proposed project would not cause an adverse change in the significance of a historical resource, and impacts to historic resources are not anticipated. No impact would result.

b) Less than Significant Impact with Mitigation Incorporated. The project site is located in an urbanized area that has been previously disturbed by past activities, including a structure that was demolished in approximately 1966-1967. According to the Phase I Cultural Resources Inventory, no prehistoric archaeological sites have been discovered within a half-mile of the project site. Despite previous disturbances of the project area that may have displaced archaeological resources on the surface, it is possible that intact archaeological resources exist at depth.

As a result, Mitigation Measures CR-1 through CR-4 have been implemented to reduce potentially significant impacts to previously undiscovered archaeological resources that may be accidentally encountered during project implementation to a less than significant level. Mitigation Measure CR-2 requires that all ground-disturbing activities be halted or diverted away from the find until an appropriate treatment plan is coordinated which may include securing a 100-foot radius around the find. Mitigation Measure CR-2 requires that a qualified Project Archeologist be present during all construction excavations and that 30-days advance notice be given to the Pechanga Band of Luiseño Indians and Soboba Band of Luiseño Indians for all mass grading and trenching activities so that a tribal monitor may be present. Mitigation Measure CR-1 requires that the Project Archeologist prepare a Cultural Resources Management Plan. With implementation of Mitigation Measures CR-1 through CR-4, impacts would be less than significant.

Mitigation Measures

CR-1 Prior to the issuance of a grading permit, the City shall retain a professional archaeologist to conduct monitoring of all mass grading and trenching activities. The Project Archaeologist shall have the authority to temporarily redirect earthmoving activities in the event that suspected archaeological resources are unearthed during Project construction. The Project Archaeologist, in consultation with the Consulting Tribe(s), the contractor, and the City,

shall develop a Cultural Resources Management Plan (CRMP) in consultation pursuant to the definition in AB52 to address the details, timing and responsibility of all archaeological and cultural activities that will occur on the project site. A consulting tribe is defined as a tribe that initiated the AB 52 tribal consultation process for the Project, has not opted out of the AB52 consultation process, and has completed AB 52 consultation with the City as provided for in Cal Pub Res Code Section 21080.3.2(b)(1) of AB52. Details in the Plan shall include:

a. Project grading and development scheduling;

Evaluation of Environmental Impacts

- b. The Project archeologist and the Consulting Tribes(s) as defined in CR-1 shall attend the pre-grading meeting with the City, the construction manager and any contractors and will conduct a mandatory Cultural Resources Worker Sensitivity Training to those in attendance. The Training will include a brief review of the cultural sensitivity of the Project and the surrounding area; what resources could potentially be identified during earthmoving activities; the requirements of the monitoring program; the protocols that apply in the event inadvertent discoveries of cultural resources are identified, including who to contact and appropriate avoidance measures until the find(s) can be properly evaluated; and any other appropriate protocols. All new construction personnel that will conduct earthwork or grading activities that begin work on the Project following the initial Training must take the Cultural Sensitivity Training prior to beginning work and the Project archaeologist and Consulting Tribe(s) shall make themselves available to provide the training on an as-needed basis;
- c. The protocols and stipulations that the contractor, City, Consulting Tribe(s) and Project archaeologist will follow in the event of inadvertent cultural resources discoveries, including any newly discovered cultural resource deposits that shall be subject to a cultural resources evaluation.
- CR-2 Prior to the issuance of a grading permit, the City of Moreno Valley shall secure agreements with the Pechanga Band of Luiseño Indians and Soboba Band of Luiseño Indians for tribal monitoring. The City is also required to provide a minimum of 30 days advance notice to the tribes of all mass grading and trenching activities. The Native American Tribal Representatives shall have the authority to temporarily halt and redirect earth moving activities in the affected area in the event that suspected archaeological resources are unearthed. If the Native American Tribal Representatives suspect that an archaeological resource may have been unearthed, the Project Archaeologist or the Tribal Representatives shall immediately redirect grading operations in a 100-foot radius around the find to allow identification and evaluation of the suspected resource. In consultation with the Native American Tribal Representatives, the Project Archaeologist shall evaluate the suspected resource and make a determination of significance pursuant to California Public Resources Code Section 21083.2.
- CR-3 In the event that Native American cultural resources are discovered during the course of grading (inadvertent discoveries), the following procedures shall be carried out for final disposition of the discoveries:
 - a) One or more of the following treatments, in order of preference, shall be employed with the tribes. Evidence of such shall be provided to the City of Moreno Valley Planning Department:
 - i. Preservation-In-Place of the cultural resources, if feasible. Preservation in place means avoiding the resources, leaving them in the place they were found with no development affecting the integrity of the resources.
 - <u>ii.</u> Onsite reburial of the discovered items as detailed in the treatment plan required pursuant to Mitigation Measure CR-1. This shall include measures and provisions to protect the future reburial area from any future impacts in perpetuity. Reburial shall not occur until all legally required cataloging and basic recordation have been completed. No recordation of sacred items is permitted without the written consent of all Consulting Native American Tribal Governments as defined in CR-1.

CR-4 The City shall verify that the following note is included on the Grading Plan:

"If any suspected archaeological resources are discovered during ground-disturbing activities and the Project Archaeologist or Native American Tribal Representatives are not present, the construction supervisor is obligated to halt work in a 100-foot radius around the find and call the Project Archaeologist and the Tribal Representatives to the site to assess the significance of the find."

c) Less than Significant Impact with Mitigation Incorporated. The project site is located in an urbanized area that has been previously disturbed by past activities, including a structure that was demolished in approximately 1966-1967. According to the Moreno Valley General Plan, the project site is located in an area of low paleontologic resource sensitivity. However, it is possible that intact paleontologic resources exist at depth. As a result, Mitigation Measure CR-5 has been implemented to reduce potentially significant impacts to previously undiscovered paleontological resources and/or unique geological features that may be accidentally encountered during project implementation to a less than significant level. Mitigation Measure CR-5 requires that ground-disturbing activities be halted or diverted away from the vicinity if paleontological materials are encountered until an appropriate treatment plan is coordinated. With implementation of Mitigation Measure CR-5 through CR-8 impacts to paleontological resources would be less than significant.

Mitigation Measures

- CR-5 The Project Applicant shall provide evidence to the City of Moreno Valley that a qualified paleontologist has been retained by the Project Applicant to conduct monitoring of excavation activities and has the authority to halt and redirect earthmoving activities in the event that suspected paleontological resources are unearthed.
- CR-6 The paleontological monitor shall conduct full-time monitoring during grading and excavation operations in undisturbed, very old alluvial fan sediments and shall be equipped to salvage fossils if they are unearthed to avoid construction delays and to remove samples of sediments that are likely to contain the remains of small fossil invertebrates and vertebrates. The paleontological monitor shall be empowered to temporarily halt or divert equipment to allow of removal of abundant and large specimens in a timely manner. Monitoring may be reduced if the potentially fossiliferous units are not present in the subsurface, or if present, are determined upon exposure and examination by qualified paleontological personnel to have a low potential to contain or yield fossil resources.
- CR-7 Recovered specimens shall be properly prepared to a point of identification and permanent preservation, including screen washing sediments to recover small invertebrates and vertebrates, if necessary. Identification and curation of specimens into a professional, accredited public museum repository with a commitment to archival conservation and permanent retrievable storage, such as the Western Science Museum in Hemet, California, is required for significant discoveries.
- CR-8 A final monitoring and mitigation report of findings and significance shall be prepared, including lists of all fossils recovered, if any, and necessary maps and graphics to accurately record the original location of the specimens. The report shall be submitted to the City of Moreno Valley prior to building final.

d) Less than Significant Impact. Because the project site has been disturbed, no human remains or cemeteries are anticipated to be disturbed by the proposed project. Any buried human remains would have been uncovered, collected, and/or destroyed at that time of initial development of the site. However, these findings do not preclude the existence of previously unknown human remains located below the ground surface, which may be encountered during construction excavations associated with the proposed project. Similar to the discussion regarding archaeological resources above, it is also possible to encounter buried human remains during construction. As a result, Mitigation Measure CR-9 has been implemented to reduce potentially significant impacts to previously unknown human remains that may be unexpectedly discovered during project implementation to a less than significant level.

Mitigation Measure CR-9 requires that in the unlikely event that human remains are uncovered the contractor shall be required to halt work in the immediate area of the find and to notify the County Coroner, in accordance with Health and

Safety Code § 7050.5, who must then determine whether the remains are of forensic interest. If the Coroner, with the aid of a supervising archaeologist, determines that the remains are or appear to be of a Native American, he/she shall contact the Native American Heritage Commission for further investigations and proper recovery of such remains, if necessary. Impacts would be less than significant with implementation of mitigation.

Mitigation Measure

CR-9 If potential historic or cultural resources are uncovered during excavation or construction activities at the project site, work in the affected area must cease immediately and a qualified person meeting the Secretary of the Interior's standards (36 CFR 61), Tribal Representatives, and all site monitors per the Mitigation Measures, shall be consulted by the City to evaluate the find, and as appropriate recommend alternative measures to avoid, minimize or mitigate negative effects on the historic, or prehistoric resource. Determinations and recommendations by the consultant shall be immediately submitted to the Planning Division for consideration, and implemented as deemed appropriate by the Community Development Director, in consultation with the State Historic Preservation Officer (SHPO) and any and all Consulting Native American Tribes as defined in CR-1 before any further work commences in the affected area.

If human remains are discovered, no further disturbance shall occur in the affected area until the County Coroner has made necessary findings as to origin. If the County Coroner determines that the remains are potentially Native American, the California Native American Heritage Commission shall be notified within 5-days of the published finding to be given a reasonable opportunity to identify the "most likely descendant". The "most likely descendant" shall then make recommendations, and engage in consultations concerning the treatment of the remains (California Public Resources Code 5097.98). (GP Objective 23.3, CEQA).

4.6 – Geology and Soils

Would the project:

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i)	Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.				
ii)	Strong seismic ground shaking?				
iii)	Seismic-related ground failure, including liquefaction?				
iv)	Landslides?				
b)	Result in substantial soil erosion or the loss of topsoil?				
c)	Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?				
d)	Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1997), creating substantial risks to life or property?				
e)	Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?				

a.i) Less than Significant Impact. Although the project site is located in seismically active Southern California, the site is not located within an Alquist-Priolo Earthquake Fault Zone.¹³ No active faults have been identified at the ground surface on the project site. Impacts would be less than significant.

Evaluation of Environmental Impacts

a.ii) **Less than Significant Impact.** The proposed project will be subject to ground shaking impacts should a major earthquake in the area occur in the future. Potential impacts include injury or loss of life and property damage. According to the General Plan EIR, the San Jacinto Fault, located approximately 6.8 miles east of the project site, has the greatest potential to inflict earthquake damage within the City.¹⁴

The project site is subject to strong seismic ground shaking, as are virtually all properties in Southern California. The proposed building is subject to the seismic design criteria of the California Building Code (CBC). The 2016 California Building Code, California Building Code, California Code of Regulations, Title 24, Volume 2) contains seismic safety provisions with the aim of preventing building collapse during a design earthquake, so that occupants would be able to evacuate after the earthquake. A design earthquake is one with a two percent chance of exceedance in 50 years, or an average return period of 2,475 years. Adherence to these requirements will reduce the potential of the building from collapsing during an earthquake, thereby minimizing injury and loss of life. Although structures may be damaged during earthquakes, adherence to seismic design requirements will minimize damage to property within the structure because the structure is designed not to collapse. The CBC is intended to provide minimum requirements to prevent major structural failure and loss of life. Adherence to existing regulations will reduce the risk of loss, injury, and death; impacts due to strong ground shaking would be less than significant.

a.iii) **Less than Significant Impact.** Liquefaction is a phenomenon that occurs when soil undergoes transformation from a solid state to a liquefied condition due to the effects of increased pore-water pressure. This typically occurs where susceptible soils (particularly the medium sand to silt range) are located over a high groundwater table. Affected soils lose all strength during liquefaction and foundation failure can occur. According to the Moreno Valley General Plan Update EIR, the project site is not located in an area that is subject to liquefaction.¹⁵ The site is underlain by alluvium exhibits a very low seismic settlement potential and liquefaction would not be significant to the proposed development. Impacts due to seismically induced liquefaction would be less than significant.

a.iv) **No Impact.** The project site is relatively flat and has not been identified by the Department of Conservation Division of Mines and Geology or the General Plan as an area subject to potential landslides. No impact would occur.

b) Less than Significant Impact. Topsoil is used to cover surface areas for the establishment and maintenance of vegetation due to its high concentrations of organic matter and microorganisms. The project has the potential to expose surficial soils to wind and water erosion during construction activities. Wind erosion would be minimized through soil stabilization measures required by South Coast Air Quality Management District (SCAQMD) Rule 403 (Fugitive Dust), such as daily watering. Water erosion would also be prevented through the City's standard erosion control practices (Municipal Code Section 8.21.160) required pursuant to the California Building Code and the National Pollution Discharge Elimination System (NPDES), such as silt fencing or berms. Following project construction, the site would be covered completely by paving, the car wash structure, and landscaping. Impacts related to soil erosion would be less than significant with implementation of existing regulations.

c) Less than Significant Impact. Impacts related to liquefaction and landslides are discussed above in Sections 4.6.a and 4.6.b. Lateral spreading is the downslope movement of surface sediment due to liquefaction in a subsurface layer. The downslope movement is due to gravity and earthquake shaking combined. Such movement can occur on slope gradients of as little as one degree. Lateral spreading typically damages pipelines, utilities, bridges, and structures.

Lateral spreading of the ground surface during a seismic activity usually occurs along the weak shear zones within a liquefiable soil layer and has been observed to generally take place toward a free face (i.e. retaining wall, slope, or channel) and to lesser extent on ground surfaces with a very gentle slope. Due to the absence of any channel within or near the subject site, and the subsurface soil conditions that are not conducive to liquefaction, the potential for lateral spread occurring on the project site is considered to be negligible. According to the General Plan EIR, areas within the San Jacinto Wildlife Area are subject to potential subsidence. The project site is not located within the San Jacinto Wildlife Area and therefore would not be subject to loss, injury, or death related to subsidence.

Evaluation of Environmental Impacts

The proposed project is required to be constructed in accordance with the CBC. Compliance with existing CBC regulations would limit hazard impacts arising from unstable soils to less than significant levels.

d) Less than Significant Impact. The CBC requires special design considerations for foundations of structures built on soils with expansion indices greater than 20. The project is required to be constructed in accordance with the CBC. Compliance with existing CBC regulations would limit hazard impacts arising from unstable soils to less than significant levels. Impacts would be less than significant.

e) **No Impact.** The project proposes to connect to the existing municipal sewer system. The proposed project would connect to this system and would not require use of septic tanks. No impact would occur.

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4.7 – Greenhouse Gas Emissions

Would the project:

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?				
b)	Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				

a) Less than Significant Impact. Climate change is the distinct change in measures of climate for a long period of time.¹⁶ Climate change is the result of numerous, cumulative sources of greenhouse gas emissions all over the world. Natural changes in climate can be caused by indirect processes such as changes in the Earth's orbit around the Sun or direct changes within the climate system itself (e.g., changes in ocean circulation). Human activities can affect the atmosphere through emissions of greenhouse gases (GHG) and changes to the planet's surface. Human activities that produce GHGs are the burning of fossil fuels (coal, oil and natural gas for heating and electricity, gasoline and diesel for transportation); methane from landfill wastes and raising livestock, deforestation activities; and some agricultural practices.

Greenhouse gases differ from other emissions in that they contribute to the "greenhouse effect." The greenhouse effect is a natural occurrence that helps regulate the temperature of the planet. The majority of radiation from the Sun hits the Earth's surface and warms it. The surface in turn radiates heat back towards the atmosphere, known as infrared radiation. Gases and clouds in the atmosphere trap and prevent some of this heat from escaping back into space and re-radiate it in all directions. This process is essential to supporting life on Earth because it warms the planet by approximately 60° Fahrenheit. Emissions from human activities since the beginning of the industrial revolution (approximately 250 years ago) are adding to the natural greenhouse effect by increasing the gases in the atmosphere that trap heat, thereby contributing to an average increase in the Earth's temperature. Greenhouse gases occur naturally and from human activities. Greenhouse gases produced by human activities include carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆). Since 1750, it is estimated that the concentrations of carbon dioxide, methane, and nitrous oxide in the atmosphere have increased over 36 percent, 148 percent, and 18 percent, respectively, primarily due to human activity. Emissions of greenhouse gases affect the atmosphere directly by changing its chemical composition while changes to the land surface indirectly affect the atmosphere by changing the way the Earth absorbs gases from the atmosphere.

Operational emissions associated with the proposed project would include GHG emissions from mobile sources (transportation), energy, water use and treatment, and waste disposal. GHG emissions from electricity use are indirect GHG emissions from the energy (purchased energy) that is produced offsite. Construction activities are short term and cease to emit greenhouse gases upon completion, unlike operational emissions that are continuous year after year until operation of the use ceases. Because of this difference, SCAQMD recommends amortizing construction emissions over a 30-year operational lifetime. This normalizes construction emissions so that they can be grouped with operational emissions in order to generate a precise project-based GHG inventory.

GHG emissions for the proposed project were quantified utilizing the California Emissions Estimator Model (CalEEMod) version 2016.3.1 to determine if it could have a cumulatively considerable impact related to greenhouse gas emissions (see

Attachment: Exhibit A Initial Study Mitigated Negative Declaration (2913 : PEN16-0113 Plot Plan)

Appendix A, Air Quality and Climate Change Assessment), and summarized in Table 6 (Greenhouse Gas Emissions Inventory). The emissions inventory accounts for GHG emissions from construction activities, operational activities, and existing emissions.

Table 6

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Greenhouse Gas Emissions Inventory						
Cauraa	GHG Emissions (MT/YR)					
Source	CO2	CH4	N2O	TOTAL*		
Construction						
Total	261	<1	0.00	262		
30-Year Amortization	9	<1	0.00	9		
Operational		·				
Total	981	<1	<1	989		
Project Construction + Operational Total	990	<1	<1	998		
Total Emissions		·	·	998		
Proposed SCAQMD Screening Threshold				3,000		
Exceeds Screening Threshold?				No		
Source: MIC 2016						

Source:	MIG	2016	
source.	iviiG	2010	

* MTCO2E/YR

Note: Slight variations may occur due to rounding. Construction emissions amortized over 30 years.

A numerical threshold for determining the significance of greenhouse gas emissions in the South Coast Air Basin (Basin) has not officially been adopted by the SCAQMD. As an interim threshold based on guidance provided in the CAPCOA *CEQA and Climate Change* white paper, a non-zero threshold based on Approach 2 of the handbook will be used.¹⁷ Threshold 2.5 (Unit-Based Thresholds Based on Market Capture) establishes a numerical threshold based on capture of approximately 90 percent of emissions from future development. The latest threshold developed by SCAQMD using this method is 3,000 metric tons carbon dioxide equivalent (MTCO₂E) per year for residential and commercial projects.¹⁸ This threshold is based on the review of 711 CEQA projects.

Greenhouse gas emissions associated with the proposed project would not exceed the 3,000 MTCO₂E threshold with implementation of existing standards and regulations; therefore, impacts would be less than significant.

b) **No Impact.** ARB's *Scoping Plan* identifies strategies to reduce California's greenhouse gas emissions in support of AB32. Many of the strategies identified in the Scoping Plan are not applicable at the project level, such as long-term technological improvements to reduce emissions from vehicles. Some measures are applicable and supported by the project, such as energy efficiency. Finally, while some measures are not directly applicable, the proposed project would not conflict with their implementation. Reduction measures are grouped into 18 action categories, as follows:

- California Cap-and-Trade Program Linked to Western Climate Initiative Partner Jurisdictions. Implement a broad-based California cap-and-trade program to provide a firm limit on emissions. Link the California cap-andtrade program with other Western Climate Initiative Partner programs to create a regional market system to achieve greater environmental and economic benefits for California. Ensure California's program meets all applicable AB 32 requirements for market-based mechanisms.
- California Light-Duty Vehicle Greenhouse Gas Standards. Implement adopted Pavley standards and planned second phase of the program. Align zero-emission vehicle, alternative and renewable fuel and vehicle technology programs with long-term climate change goals.
- Energy Efficiency. Maximize energy efficiency building and appliance standards, and pursue additional efficiency efforts including new technologies, and new policy and implementation mechanisms. Pursue comparable investment in energy efficiency from all retail providers of electricity in California (including both investor-owned and publicly owned utilities).
- 4. Renewables Portfolio Standards. Achieve 33 percent renewable energy mix statewide.

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- 5. Low Carbon Fuel Standard. Develop and adopt the Low Carbon Fuel Standard.
- 6. **Regional Transportation-Related Greenhouse Gas Targets.** Develop regional greenhouse gas emissions reduction targets for passenger vehicles.
- 7. Vehicle Efficiency Measures. Implement light-duty vehicle efficiency measures.
- 8. **Goods Movement.** Implement adopted regulations for the use of shore power for ships at berth. Improve efficiency in goods movement activities.
- Million Solar Roofs Program. Install 3,000 megawatts of solar-electric capacity under California's existing solar programs.
- 10. Medium- and Heavy-Duty Vehicles. Adopt medium- (MD) and heavy-duty (HD) vehicle efficiencies. Aerodynamic efficiency measures for HD trucks pulling trailers 53-feet or longer that include improvements in trailer aerodynamics and use of rolling resistance tires were adopted in 2008 and went into effect in 2010. Future, yet to be determined improvements, includes hybridization of MD and HD trucks.
- 11. Industrial Emissions. Require assessment of large industrial sources to determine whether individual sources within a facility can cost-effectively reduce greenhouse gas emissions and provide other pollution reduction cobenefits. Reduce greenhouse gas emissions from fugitive emissions from oil and gas extraction and gas transmission. Adopt and implement regulations to control fugitive methane emissions and reduce flaring at refineries.
- 12. High Speed Rail. Support implementation of a high-speed rail system.
- 13. Green Building Strategy. Expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings.
- 14. High Global Warming Potential Gases. Adopt measures to reduce high warming global potential gases.
- 15. **Recycling and Waste.** Reduce methane emissions at landfills. Increase waste diversion, composting and other beneficial uses of organic materials, and mandate commercial recycling. Move toward zero-waste.
- 16. **Sustainable Forests.** Preserve forest sequestration and encourage the use of forest biomass for sustainable energy generation. The 2020 target for carbon sequestration is 5 million MTCO2E/YR.
- 17. Water. Continue efficiency programs and use cleaner energy sources to move and treat water.
- 18. Agriculture. In the near-term, encourage investment in manure digesters and at the five-year Scoping Plan update determine if the program should be made mandatory by 2020.

Table 7 (Scoping Plan Consistency Summary) summarizes the proposed project's consistency with the State Scoping Plan. As summarized, the proposed project would not conflict with any of the provisions of the Scoping Plan and in fact supports four of the action categories through energy efficiency, water conservation, recycling, and landscaping.

Scoping Plan Consistency Summary							
Action	Supporting Measures	Consistency					
Cap-and-Trade Program		Not Applicable. These programs involve capping emissions from electricity generation, industrial facilities, and broad scoped fuels. Caps do not affect commercial projects.					
Light-Duty Vehicle Standards	T-1	Not Applicable. This is a statewide measure establishing vehicle emissions standards.					
	E-1 E-2	Consistent. The project will include a variety of building,					
Energy Efficiency	CR-1 CR-2	 water, and solid waste efficiencies consistent with CALGREEN requirements. 					
Renewables Portfolio Standard	E-3	Not Applicable. Establishes the minimum statewide renewable energy mix.					
Low Carbon Fuel Standard	T-2	Not Applicable. Establishes reduced carbon intensity of transportation fuels.					
Regional Transportation-Related Greenhouse Gas Targets	Т-3	Not Applicable. The project would not result in substantial emissions of greenhouse gas emissions; therefore, transportation related emissions reductions are not required.					
Vehicle Efficiency Measures	T-4	Not Applicable. Identifies measures such as minimum tire-fuel efficiency, lower friction oil, and reduction in air conditioning use.					
	T-5	Not applicable. Identifies measures to improve good movement efficiencies such as advanced combustion					
Goods Movement	T-6	strategies, friction reduction, waste heat recovery, and electrification of accessories.					
Million Solar Roofs Program	E-4	Not Applicable. Sets goal for use of solar systems throughout the state.					
Medium- & Heavy-Duty Vehicles	T-7	Not applicable. Medium-duty and heavy-duty trucks					
	T-8	and trailers would not operate from the proposed project.					
	l-1						
	I-2	Not Applicable. These measures are applicable to large					
Industrial Emissions	I-3	industrial facilities (> 500,000 MTCOE2/YR) and other					
	1-4	intensive uses such as refineries.					
High Speed Doil	I-5	Net Applicable. Cupports increased makility shairs					
High Speed Rail	T-9	Not Applicable. Supports increased mobility choice.					
Green Building Strategy	GB-1	Consistent. The project would include a variety of building, water, and solid waste efficiencies consistent with CALGREEN requirements.					
High Global Warming Potential Gases	H-1	Not Applicable. The proposed project is not a					
	H-2	substantial source of high GWP emissions and would					

 Table 7

 Scoping Plan Consistency Summary

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	H-3	comply with any future changes in air conditioning, fire
	H-4	protection suppressant, and other requirements.
	H-5	
	H-6	
	H-7	
Recycling and Waste	RW-1	Consistent. The project would be required to recycle a
	RW-2	minimum of 50 percent from construction activities and
	RW-3	operations per state requirements.
Sustainable Forests	F-1	Not Applicable. The project site is not forested, and the project would not result in the loss of any forest land.
	W-1	
	W-2	
Water	W-3	Consistent. The project would include use of low-flow
Walei	W-4	fixtures and efficient landscaping per state requirements.
	W-5	
	W-6	
Agriculture	A-1	Not Applicable. The project is not an agricultural use.

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4.8 – Hazards and Hazardous Materials

Would the project:

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?				
b)	Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?				
c)	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				
d)	Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				
e)	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?				
f)	For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?				
g)	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				

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Attachment: Exhibit A Initial Study Mitigated Negative Declaration (2913 : PEN16-0113 Plot Plan)

Would the project:

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
h)	Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?				

a) Less than Significant Impact. The proposed project could result in a significant hazard to the public if it includes the routine transport, use, or disposal of hazardous materials or places housing near a facility which routinely transports, uses, or disposes of hazardous materials. The proposed project is located within a commercial area immediately south of SR-60 and is surrounded by commercial and auto care uses, SR-60, and surface streets. The proposed project would not place housing near any hazardous materials facilities. The routine use, transport, or disposal of hazardous materials is primarily associated with industrial uses which require such materials for manufacturing operations or produce hazardous wastes as by-products of production applications. The proposed project does not propose or facilitate any activity involving significant use, routine transport, or disposal of hazardous substances.

Construction of the proposed project would require the use and transport of hazardous materials such as asphalt, paints, and other solvents. Construction activities could also produce hazardous wastes associated with the use of such products. Construction of the proposed project requires ordinary construction activities and would not require a substantial or uncommon amount of hazardous materials to complete. All hazardous materials are required to be utilized and transported in accordance with their labeling pursuant to federal and state law. Routine construction practices include good housekeeping measures to prevent/contain/clean-up spills and contamination from fuels, solvents, concrete wastes and other waste materials. Impacts would be less than significant.

With regard to project operation, widely used hazardous materials common at commercial uses include paints and other solvents, cleaners, and pesticides. Operation of the proposed car wash would involve the use of cleaning solutions and paints for routine maintenance and re-coating of the project structures. The remnants of these and other products are disposed of as household hazardous waste (HHW) that includes used dead batteries, electronic wastes, and other wastes that are prohibited or discouraged from being disposed of at local landfills. Use of common household hazardous materials and their disposal does not present a substantial health risk to the community. Impacts associated with the routine transport, use, or disposal of hazardous materials or wastes would be less than significant.

b) Less than Significant Impact. According to the State Water Resources Control Board, there are no open cases of leaking underground storage tanks (LUST) within one-quarter mile of the project site.¹⁹ There would be no impact related to the release of hazardous materials into the environment as a result of the proposed project.

Construction of the proposed project would require the use and transport of hazardous materials such as asphalt, paints, and other solvents. Construction activities could also produce hazardous wastes associated with the use of such products. Construction of the proposed development requires ordinary construction activities and would not require a substantial or uncommon amount of hazardous materials to complete. All hazardous materials are required to be utilized and transported in accordance with their labeling pursuant to federal and state law. Routine construction practices include good housekeeping measures to prevent/contain/clean-up spills and contamination from fuels, solvents, concrete wastes and other waste materials. Impacts would be less than significant.

With regards to project operation, the proposed car wash would not involve the use of hazardous materials or generate hazardous waste that could create a significant hazard to the public or the environment through reasonably foreseeable

upset and accident conditions involving the release of hazardous materials into the environment. Project operation would involve the use of solvents, cleaners, and waxes used for typical car wash operations and would not pose a significant risk. Impacts would be less than significant.

c) **No Impact.** There are no schools located within or are planned to be located within one-quarter mile of the project site. Therefore, the proposed project would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. No impact would occur.

d) **No Impact.** The proposed project is not located on a site listed on the state *Cortese List*, a compilation of various sites throughout the state that have been compromised due to soil or groundwater contamination from past uses.²⁰

Based upon review of the *Cortese List*, the project site is not:

- listed as a hazardous waste and substance site by the Department of Toxic Substances Control (DTSC),²¹
- listed as a leaking underground storage tank (LUFT) site by the State Water Resources Control Board (SWRCB),²²
- listed as a hazardous solid waste disposal site by the SWRCB,²³
- currently subject to a Cease and Desist Order (CDO) or a Cleanup and Abatement Order (CAO) as issued by the SWRCB,²⁴ or
- developed with a hazardous waste facility subject to corrective action by the DTSC.²⁵

e-f) **No Impact.** There are no public airports, private airstrips, or heliports within two miles of the project site.²⁶ No impact related to airport operations would occur.

g) Less than Significant Impact. Per state Fire and Building Codes, sufficient space will have to be provided around the buildings for emergency personnel and equipment access and emergency evacuation. All project elements, including landscaping, would be sited with sufficient clearance from existing and proposed structures so as not to interfere with emergency access to and evacuation from the facility. The proposed project is required to comply with the California Fire Code as adopted by the Moreno Valley Municipal Code (Chaper 8.36). The site plan includes one ingress/egress access point via a driveway on Sunnymead Boulevard at the southeastern corner of the project site.

The project driveway would allow emergency access and evacuation from the site, and would be constructed to California Fire Code specifications. The proposed project would not impair implementation of or physically interfere with an adopted emergency response plan or evacuation plan because no permanent public street or lane closures are proposed. Construction work in the street associated with the buildings would be limited to lateral utility connections would be limited to nominal potential traffic diversion. Project impacts would be less than significant.

h) **No Impact.** The project site is not located within a fire hazard zone, as identified on the latest Fire Hazard Severity Zone (FHSZ) maps prepared by the California Department of Forestry and Fire Protection (CALFIRE).²⁷ There are no wildland conditions in the urbanized area where the project site is located. No impact would occur.

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4.9 – Hydrology and Water Quality

Would the project:

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Violate any water quality standards or waste discharge requirements?				
b)	Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?				
c)	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?				
d)	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?				
e)	Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?				
f)	Otherwise substantially degrade water quality?				
g)	Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?				
h)	Place within a 100-year flood hazard area structures which would impede or redirect flood flows?				

Attachment: Exhibit A Initial Study Mitigated Negative Declaration (2913 : PEN16-0113 Plot Plan)

Would the project:

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
i)	Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?				
j)	Inundation by seiche, tsunami, or mudflow?				

a) Less than Significant Impact. A project normally would have an impact on surface water quality if discharges associated with the project would create pollution, contamination, or nuisance as defined in Water Code § 13050, or that cause regulatory standards to be violated as defined in the applicable National Pollutant Discharge Elimination System (NPDES) stormwater permit or Water Quality Control Plan for the receiving water body. For the purpose of this specific issue, a significant impact could occur if the project would discharge water that does not meet the quality standards of the agencies which regulate surface water quality and water discharge into stormwater drainage systems. Significant impacts could also occur if the project does not comply with all applicable regulations with regard to surface water quality as governed by the State Water Resources Control Board (SWRCB). These regulations include preparation of a Stormwater Pollution Prevention Plan (SWPPP) to reduce potential water quality impacts during construction activity (Moreno Valley Municipal Code Section 8.21.170) and the implementation of post-construction best management practices (BMPs) (Moreno Valley Municipal Code Section 8.10.050).

Construction Impacts

Three general sources of potential short-term, construction-related stormwater pollution associated with the proposed project include: 1) the handling, storage, and disposal of construction materials containing pollutants; 2) the maintenance and operation of construction equipment; and 3) earth-moving activities which, when not controlled, may generate soil erosion via storm runoff or mechanical equipment. All new development projects equal to one acre or more are subject to Riverside County NPDES Permit No. CAS 618033. The proposed project would disturb approximately 1.68 acres of land and therefore will be subject to NPDES permit requirements during construction activities. In addition, pursuant to Municipal Code Section 8.21.170, the project shall prepare and submit a Storm Water Pollution Prevention Plan (SWPPP). All construction projects must apply BMPs that include drainage controls such as detention ponds, dikes, filter berms, and downdrains to prevent runoff, and utilizing plastic covering to prevent erosion. Compliance with City discharge requirements would ensure that the construction of the proposed project would not violate any water quality standards or discharge requirements, or otherwise substantially degrade water quality. Impacts would be less than significant with implementation of existing regulations.

Operational Impacts

Proposed construction will increase impervious areas as the site currently does not consist of any impervious surfaces. The approximately 1.68-vacant site, will be replaced with a car wash structure, vacuum area, office, restrooms, and associated paving and landscaping. Runoff from the developed site would result in increased potential water contamination from urban pollutants that are commonly found in surface parking lots, ornamental landscape planters and from atmospheric buildup on rooftops. The proposed project would be subject to post-construction BMPs to address increases in impervious surfaces, methods to decrease incremental increases in off-site stormwater flows, and methods for decreasing pollutant loading in off-site discharges. A key design criterion is to treat the first ³/₄-inch rainstorm flows, since the first rains typically carry the most concentrated levels of pollution that have built up since the last storm. Common post-construction BMPs include retaining stormwater on-site to filter back into the groundwater. The proposed project includes six bio swales within landscaped areas of the site. On-site storm drainage facilities will collect stormwater to be conveyed to the bio swales for treatment, and then

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pumped to the City storm drainage system on Sunnymead Boulevard. The proposed development would not generate hazardous wastewater that would require any special waste discharge permits. All wastewater associated with the building's interior plumbing system would be discharged into the local sewer system for treatment at the regional wastewater treatment plant. Although the amount of impervious surfaces would be greater than existing conditions, runoff would be captured on site and conveyed through a proposed on-site storm drainage system which includes water treatment at the site's various bio swales prior to being discharged into the municipal storm drain at Sunnymead Boulevard. Impacts would be less than significant with implementation of existing regulations.

b) Less than Significant Impact. If the proposed project removes an existing groundwater recharge area or substantially reduces runoff that results in groundwater recharge such that existing wells would no longer be able to operate, a potentially significant impact could occur. The project site is located in Perris Valley Groundwater Basin (Basin). According to the Moreno Valley General Plan Update EIR, groundwater depths range from approximately 100 feet to 150 feet below the ground surface. Project-related grading would not reach these depths and no disturbance of groundwater is anticipated. The proposed building footprint and pavement area would increase impervious surface coverage on the site, thereby reducing the total amount of infiltration onsite. However, according to the General Plan EIR, infiltration of irrigation water through soil and water from runoff through soft-bottom channels would ensure continued groundwater recharge in Moreno Valley as impervious surfaces increase. The project site is not utilized for groundwater supplies and would provide landscaped areas for continued infiltration, this change in infiltration would not have a significant effect on groundwater table level. Impacts would be less than significant.

c) Less than Significant Impact. Potentially significant impacts to the existing drainage pattern of the site or area could occur if development of the project results in substantial on- or off-site erosion or siltation. Stormwater would be collected on site and conveyed to the various on-site bio swales for treatment and then conveyed to the City's storm drainage system at Sunnymead Boulevard. Therefore, the drainage pattern would not be substantially altered in a manner than could cause increases in erosion off-site. Erosion and siltation reduction measures would be implemented during construction. At the completion of construction, the project would consist of impervious surfaces and would therefore not be prone to substantial erosion. No streams cross the project site; thus, the project would not alter any stream course. Impacts would be less than significant.

d-e) Less than Significant Impact. No streams traverse the project site; thus, the project would not result in the alteration of any stream course. During construction, the project applicant would be required to comply with drainage and runoff guidelines pursuant to Municipal Code Chapter 8.10.

With regard to project operation, construction of the proposed project would increase the net area of impermeable surfaces on the site; therefore, increased discharges to the City's existing storm drain system would likely occur. Stormwater would be collected on site and conveyed to the various on-site bio swales for treatment and then conveyed to the City's storm drainage system at Sunnymead Boulevard. Permits to connect to the existing storm drainage system would be obtained prior to construction. All drainage plans are subject to City review and approval. Therefore, the increase in discharges would not impact local storm drain capacity. The proposed project is not an industrial use and therefore would not result in substantial pollutant loading such that treatment control BMPs would be required to protect downstream water quality. Impacts would be less than significant.

f) **Less than Significant Impact.** The project does not propose any uses that could have the potential to otherwise degrade water quality beyond those issues discussed in Section 4.9 herein. Impacts would be less than significant.

g & h) **No Impact.** According to flood maps prepared by the Federal Emergency Management Agency, the project site is not located within a 100-year flood floodplain.²⁸ No impact would occur.

i) **No Impact.** According to the Moreno Valley General Plan, the project site is not located within a dam inundation area.²⁹ No impact would result.

j) **No Impact.** The City is not exposed to tsunami hazards due to its inland location. In addition, no large water bodies that would pose potential for seiche are located in the project area. The potential for mudflows is unlikely given the site's distance from hillside and mountainous terrain. No impact would occur.

4.10 – Land Use and Planning

Would the project:

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Physically divide an established community?				
b)	Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?				
c)	Conflict with any applicable habitat conservation plan or natural community conservation plan?				

a) **No Impact.** The proposed project is surrounded by commercial uses to the west, south, and east and State Route 60 (SR-60) to the north. The proposed project is consistent and compatible with the surrounding land uses and would not divide an established community. The proposed project does not involve construction of any roadway, flood control channel, or other structure that would physically divide any portion of the community. Therefore, no impact would occur.

b) Less than Significant Impact. The project site is designated as *Commercial* in the City's General Plan and is zoned *Community Commercial*. The proposed project does not require amending the General Plan or zoning ordinance. Section 9.04.040 of the Moreno Valley Municipal Code provides general site development standards for commercial uses. For the Community Commercial zone, the minimum site area is one acre with a parking front street setback of 20 feet. The project site is 1.68 acres and the Site Plan indicates a front parking setback of 20 feet from Sunnymead Boulevard. The primary purpose of the Community Commercial zone is to provide for general shopping with a variety of business, retail, personal, and related or similar services. The proposed project does not conflict with the intent or implementation of this designations. Furthermore, the proposed project would maintain the integrity of the surrounding commercial area in terms of density, use, and design. The project does not include any feature that would circumvent any mitigating policies in the Moreno Valley General Plan. Impacts would be less than significant.

c) **No Impact.** As discussed in Section 4.4.f above, the project site is located within the Western Riverside County MSHCP Reche Canyon/Badlands Area Plan. The project site is not located within an MSHCP criteria area or area plan subunit. The project site does not occur within a predetermined Survey Area for narrow endemic plant species, criteria area plant species, amphibian species, burrowing owl, or mammal species. Therefore, no surveys are required for these species. No riparian resources, riverine resources, or vernal pools pursuant to Section 6.1.2 of the MSHCP were identified on the project site. The project site does not occur within or adjacent to an MSHCP Core, Linkage, Constrained Linkage, or Non-Contiguous Habitat Block. Therefore, an Urban/Wildlife Interface analysis pursuant to Section 6.1.4 of the MSHCP is not required. No impacts would occur.

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4.11 – Mineral Resources

Would the project:

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				
b)	Result in the loss of availability of a locally- important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?				

a-b) **No Impact.** The project site is located in a completely urbanized area. There are no mineral extraction or process facilities on or near the site.³⁰ No mineral resources are known to exist within the vicinity. No impact would occur.

4.12 – Noise

Would the project:

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?				
b)	Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?				
c)	A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?				
d)	A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?				
e)	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				
f)	For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?				

Fundamentals of Sound and Environmental Noise

Noise can be defined as unwanted sound. Sound (and therefore noise) consists of energy waves that people receive and interpret. Sound pressure levels are described in logarithmic units of ratios of sound pressures to a reference pressure, squared. These units are called *bels*. In order to provide a finer description of sound, a *bel* is subdivided into ten *decibels*, abbreviated dB. To account for the range of sound that human hearing perceives, a modified scale is utilized known as the A-weighted decibel (dBA). Since decibels are logarithmic units, sound pressure levels cannot be added or subtracted by ordinary arithmetic means. For example, if one automobile produces a sound pressure level of 70 dBA when it passes an observer, two cars passing simultaneously would not produce 140 dBA. In fact, they would combine to produce 73 dBA. This same principle can be applied to other traffic quantities as well. In other words, doubling the traffic volume on a street or the speed of the traffic will increase the traffic noise level by 3 dBA. Conversely, halving the traffic volume or speed will reduce the traffic noise level by 3 dBA. A 3 dBA change in sound is the beginning at which humans generally notice a *barely perceptible* change in sound and a 5 dBA change is generally *readily perceptible*.³¹

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Evaluation of Environmental Impacts

Noise consists of pitch, loudness, and duration; therefore, a variety of methods for measuring noise have been developed. According to the California General Plan Guidelines for Noise Elements, the following are common metrics for measuring noise:³²

 L_{EQ} (Equivalent Energy Noise Level): The sound level corresponding to a steady-state sound level containing the same total energy as a time-varying signal over given sample periods. L_{EQ} is typically computed over 1-, 8-, and 24-hour sample periods.

CNEL (Community Noise Equivalent Level): The average equivalent A-weighted sound level during a 24-hour day, obtained after addition of five decibels to sound levels in the evening from 7:00pm to 10:00pm and after addition of ten decibels to sound levels in the night from 10:00pm to 7:00am.

L_{DN} (Day-Night Average Level): The average equivalent A-weighted sound level during a 24-hour day, obtained after the addition of ten decibels to sound levels in the night after 10:00pm and before 7:00am.

CNEL and L_{DN} are utilized for describing ambient noise levels because they account for all noise sources over an extended period of time and account for the heightened sensitivity of people to noise during the night. L_{EQ} is better utilized for describing specific and consistent sources because of the shorter reference period.

City of Moreno Valley Municipal Code

Noise Standards

Pursuant to Section 11.80.030 of the Moreno Valley Municipal Code, no person shall operate or cause to be operated a public or private motor vehicle, or combination of vehicles towed by a motor vehicle, that creates a sound exceeding the sound level limits below during daytime hours (between the hours of 8:00 AM and 10:00 PM):

- Residential 60 dBA
- Commercial 65 dBA

Construction Noise Levels

Pursuant to Section 11.80.030(D)(7), construction work conducted between the hours of 8:00 PM and 7:00 AM is prohibited.

a, c, d) Less than Significant Impact with Mitigation Incorporated. The Moreno Valley Municipal Code (Section 11.80.030) sets allowable levels for residential and commercial land uses. Exterior noise exposure for residential use is allowable up to 60 dBA and 65 dBA for commercial uses.

Construction Noise Levels

Construction noise levels were estimated for nearby receptors using the FHWA Roadway Construction Noise Model (RCNM). Temporary noise increases will be greatest during the site preparation phase of construction. The model indicates that the use of construction equipment such as graders and tractors could expose the auto care uses located approximately 100 feet from the center of the project site to worst case noise levels of 79.0 dBA L_{max}. Table 8 (Construction Noise Impacts) below summarizes the maximum noise levels at each of the studied receivers. Pursuant to the Moreno Valley Municipal Code, a noise level of 65 dBA is allowable for commercial uses. Pursuant to Section 11.80.030(D)(7) of the Municipal Code, construction work conducted between the hours of 8:00 PM and 7:00 AM is prohibited. As shown in Table 8, the neighboring commercial uses could be exposed to construction noise levels in excess of 65 dBA. Therefore, Mitigation Measure N-1 has been incorporated to minimize general construction noise impacts to neighboring uses.

Construction Noise Impacts						
		Building		Architectural		
Receptor	Grading	Construction	Paving	Coating		
1 – Auto Care (W)	79.0	79.0	79.0	71.6		
2 – Fast Food Restaurant (E)	77.4	77.4	77.4	70.1		
3 – Service Station (E)	73.9	73.9	73.9	66.5		
Source: MIG 2017						

Table 8 Construction Noise Impacts

In order to ensure that construction noise is minimized at nearby receptors, Mitigation Measure N-1 have been incorporated to minimize noise associated with general construction activities. Mitigation Measure N-1 requires the use of engineered controls include retrofitting equipment with improved exhaust and intake muffling, disengaging equipment fans, and installation of sound panels around equipment engines to be verified by the preparation of a noise mitigation plan once specific construction programing and equipment is identified. These types of controls can feasibly achieve noise level reductions of approximately 10 dBA.^{33 34} Should the noise mitigation plan find that the use of engineered controls will not sufficiently reduce construction noise, the noise mitigation plan shall identify the type and location of sound curtains or other noise barriers to be utilized to reduce construction noise and neighboring uses. Sound curtains and other noise barriers can be used for general construction noise and achieve reductions of up to 20 dBA.³⁵ Therefore, with implementation of Mitigation Measure N-1, construction noise would feasibly be reduced to less-than-significant levels.

Mitigation Measure

- N-1 The following measures are required to ensure that project-related short-term construction noise levels are reduced to less-than-significant levels. Prior to issuance of demolition permits, a noise mitigation plan verifying that compliance with the following measures would reduce construction noise to within the allowable levels of 65 dBA for commercial uses. Should construction noise exceed allowable levels after implementation of the following measures, the use of sound curtains or other noise barriers shall be required. The noise mitigation plan shall identify the type and location of sound curtains or other noise barriers to be utilized to reduce construction noise to within allowable levels.
 - Stationary construction noise sources such as generators or pumps must be located at least 100 feet from sensitive land uses, as feasible, or at maximum distance when necessary to complete work near sensitive land uses. This mitigation measure must be implemented throughout construction and may be periodically monitored by a contracted noise monitor. Datasheets completed by the contracted construction noise monitor may be submitted to the Planning Official, or designee during routine inspections.
 - Construction staging areas must be located as far from noise sensitive land uses as feasible. This mitigation measure must be implemented throughout construction and may be periodically monitored by a contracted construction noise monitor, by the Planning Official or designee during routine inspections.
 - Throughout construction, the contractor shall ensure all construction equipment is equipped with included noise attenuating devices and are properly maintained. This mitigation measure shall be periodically monitored by a contracted construction noise monitor, the Planning Official, or designee during routine inspections.
 - Idling equipment must be turned off when not in use. This mitigation measure may be periodically
 monitored by a contracted construction noise monitor the Planning Official, or designee during routine
 inspections.

• Equipment must be maintained so that vehicles and their loads are secured from rattling and banging. This mitigation measure may be periodically monitored by a contracted construction noise monitor, the Planning Official, or designee during routine inspections.

Operational Noise Levels

Car Wash Equipment Noise

A noise assessment study was prepared by Bruce Walker, Ph.D. to estimate noise levels resulting from the operation of vacuum equipment and drying fans at the proposed car-wash facility (refer to Appendix D). The estimate was assessed using the ISO 9613-2 standard model in SoundPlan 7.3. Noise limits were determined from the Moreno Valley Noise Ordinance, which limits daytime noise to 60 dB (55 dB nighttime) on residential properties and 65 dB (60 dB nighttime) on commercial properties.

Existing uses that may be affected by project sound sources are a row of auto-repair and related industrial uses to the west, with an existing 6 feet high concrete block wall on the boundary, a self-serve service station at the northeast, a small restaurant to the east and a Jack-in-the Box restaurant to the southeast. The nearest residential uses are on the west side and the north end of Loraine Terrace, mostly shielded by the auto-repair facilities.

As a point of comparison, a brief series of ambient noise measurements was undertaken near the east side of the project site and near an existing residence at the north end of Loraine Terrace on June 11, 2017 (see Appendix D). Noise peaks registered above 60 dB from noisy vehicles on the SR-60 off-ramp at the north end of the site.

Tunnel equipment noise emission levels were determined by acoustic measurements conducted between 18 to 20 feet from the entrance and exit of the existing Water Drops carwash facility near Channel Islands Boulevard and Oxnard Boulevard in the City of Oxnard. Each vacuum station is equipped with a manifold-served vacuum line, served by central equipment in an enclosed space. Sound levels were measured at a distance of 10 feet while a car was systematically vacuumed. Due to attenuation along the length of the wash tunnel, the entry sound level is 8 dB lower than the exit sound level. The measured levels, together with measured levels 3 ft in front of the equipment room door louvers, were converted to A-weighted sound power levels and used as input for the SoundPlan model.

Based on in-situ observations during a mid-sunny-day visit to the existing facility, the SoundPlan model was set up with 11 vacuum uses in two rows with stations partially covered by canopies. Based on observations, probability is low that 11 vacuums would actually be in operation simultaneously; therefore, model predictions are based upon a worst-case scenario.

Noise contour computations indicate that sound levels during tunnel drier operation would exceed the City's allowable daytime threshold for commercial properties of 65 dB at locations near the tunnel entry and exit at the east side of the site. Implementation of Mitigation Measure N-2 is required in order to comply with the City of Moreno Valley's noise ordinance and to reduce potential operational noise impacts to a less than significant level.

Mitigation Measure

- N-2. The following measures are required to ensure that project-related operational noise levels are reduced to lessthan-significant levels.
 - In order for operational noise levels to comply with the City's ordinance, the height of the tunnel entry and exit openings shall be limited to no more than 10 feet and the east wall of the tunnel shall extend 30 feet northward and southward at a height of 10 feet to provide adequate shielding and reduce property line sound levels to 65 dB.

In order to provide adequate of sound attenuation, two sound barrier walls will be constructed at the east side of the wash tunnel entry to the south and exit to the north. At a height of 10 feet, the sound barriers shall extend 30 feet northward from the northwest corner of the building and 30 feet southward from the southwest corner of the building at a height of 10 feet. The western surface of the extended wall at the south (entrance) shall be treated with outdoor sound absorbing material, such as IAC Noise-Foil panels. The material could be any impervious construction with a surface density of at least 2 pounds per square foot. The eastern face of both walls shall be treated with sound absorbing surface material with NRC 0.7 or greater. Along the west side of the site, the existing barrier will provide adequate shielding from the vacuum equipment to reduce levels to below 65 dB at the commercial/industrial uses and to well below 60 dB at the residences further west.

Traffic Noise

According to traffic counts conducted for the City of Moreno Valley in 2014, there were 15,300 average daily trips (ADT) along Sunnymead Boulevard.³⁶ An annual growth rate of one percent has been added to 2014 trips account for ambient growth from 2014 to 2017 without addition of the proposed project. With consideration of ambient growth, existing ADT along Sunnymead Boulevard is estimated to be 15,764 without the proposed project. As discussed in Section 4.3, the estimated daily project trips is 450.³⁷ Therefore, Existing Plus Project daily trips along Sunnymead Boulevard are estimated to be 16,214.

Traffic noise along Sunnymead Boulevard (without consideration of traffic noise along SR-60) has been modeled for Existing (2017) and Existing Plus Project conditions to determine if increases in traffic due to the proposed project would result in perceptible increases in traffic noise at neighboring receptors. Commercial uses along Sunnymead Boulevard are generally located approximately 50 feet from the roadway centerline. The Existing and Existing Plus Project noise levels at 50 feet from roadway centerlines were calculated using TNM Version 2.5 (see Appendix E for modeling files).

The Existing Without Project and Plus Project traffic noise for commercial uses along Sunnymead Boulevard are summarized in Table 9 (Roadway Noise Levels). Existing traffic noise levels exceed allowable exterior noise levels for commercial receptors; therefore, the proposed project would not cause noise standards to be exceeded. In addition, increases in traffic due to the proposed project would not result in a perceptible noise increase at uses along Sunnymead Boulevard. Impacts would be less than significant.

Roadway Noise Levels					
	Without	Plus			
Roadway	Project	Project			
-			1		
	dBA (CNEL	Difference	Significant?	
Sunnymead Boulevard	dBA (73.7	CNEL 73.8	+0.1	No	

Table 9

b) **Less than Significant Impact.** Vibration is the movement of mass over time. It is described in terms of frequency and amplitude and unlike sound; there is no standard way of measuring and reporting amplitude. Vibration can be described in units of velocity (inches per second) or discussed in decibel (dB) units in order to compress the range of numbers required to describe vibration. Vibration impacts to buildings are generally discussed in terms of peak particle velocity (PPV) that describes particle movement over time (in terms of physical displacement of mass). For purposes of this analysis, PPV will be used to describe all vibration for ease of reading and comparison. Vibration can impact people, structures, and sensitive equipment.³⁸ The primary concern related to vibration and people is the potential to annoy those working and residing in the area. Vibration with high enough amplitudes can damage structures (such as crack plaster or destroy windows). Groundborne vibration can also disrupt the use of sensitive medical and scientific instruments such as electron microscopes.

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Groundborne vibration generated by construction projects is usually highest during pile driving, rock blasting, soil compacting, jack hammering, and demolition-related activities. Next to pile driving, grading activity has the greatest potential for vibration impacts if large bulldozers, large trucks, or other heavy equipment are used. The construction of the proposed project would not require the use of equipment such as pile drivers, which are known to generate substantial construction vibration levels.

According to the Caltrans vibration manual, large bulldozers, vibratory rollers (used to compact earth), and loaded trucks utilized during grading activities can produce vibration, and depending on the level of vibration, could cause annoyance at uses within the project vicinity or damage structures. Caltrans has developed a screening tool to determine of vibration from construction equipment is substantial enough to impact surrounding uses.

The Caltrans vibration manual establishes thresholds for vibration impacts on buildings and humans. These thresholds are summarized in Tables 10 (Vibration Damage Potential Threshold Criteria) and 11 (Vibration Annoyance Potential Threshold Criteria).

Structural Integrity	Maximum	Maximum PPV (in/sec)		
Structural Integrity	Transient	Continuous		
Historic and some older buildings	0.50	0.25		
Older residential structures	0.50	0.30		
New residential structures	1.00	0.50		
Modern industrial and commercial structures	2.00	0.50		
Source: Caltrans 2013				

Tabla 11

Table 10Vibration Damage Potential Threshold Criteria

Vibration Annoyance Potential Threshold Criteria					
	PPV Thres	hold (in/sec)			
Human Response	Transient	Continuous			
Barely perceptible	0.035	0.012			
Distinctly perceptible	0.24	0.035			
Strongly perceptible	0.90	0.10			
Severely perceptible	2.00	0.40			
Source: Caltrans 2013					

Construction activities that use vibratory rollers and bulldozers are repetitive sources of vibration; therefore, the *continuous* threshold is used. Commercial uses adjacent to the project site are located to the west and east. As a worst-case scenario, the *historic and some older buildings* threshold is used. Based on the threshold criteria summarized in Tables 11 and 12, vibration from use of heavy construction equipment for the proposed project would be below the thresholds to cause damage to nearby structures at the receptors shown in Table 12 (Construction Vibration Impacts).

Construction of the project would not require rock blasting, or pile driving, but could require use a vibratory roller, small bulldozer, loaded trucks, and jackhammer. All of the receptors will experience *barely perceptible* vibration from the use of this equipment. Furthermore, pursuant to the Moreno Valley Municipal Code Section 8.14.040E, any construction shall only be completed between the hours of 7:00 a.m. to 7:00 p.m. Monday through Friday, excluding holidays, and from 8:00 a.m. to 4:00 p.m. on Saturday, unless written approval is obtained from the City building official or City engineer. Therefore, the project would not result in excessive, strongly perceptible vibration.

With regard to long-term operational impacts, activities associated with the project would not result in any excessive vibration-related impacts to adjacent or on-site properties.

Table 12

Construction Vibration Impacts					
Receptors	Equipment	PPVref	Distance (feet)	PPV	
1 – Auto Care (W)	Vibratory Roller	0.21	100	0.0346	
2 – Fast Food Restaurant (E)	Vibratory Roller	0.21	120	0.0273	
3 – Service Station (E)	Vibratory Roller	0.21	180	0.0161	
1 – Auto Care (W)	Small Bulldozer	0.003	100	0.0005	
2 – Fast Food Restaurant (E)	Small Bulldozer	0.003	120	0.0004	
3 – Service Station (E)	Small Bulldozer	0.003	180	0.0002	
1 – Auto Care (W)	Loaded Truck	0.076	100	0.0125	
2 – Fast Food Restaurant (E)	Loaded Truck	0.076	120	0.0099	
3 – Service Station (E)	Loaded Truck	0.076	180	0.0058	
1 – Auto Care (W)	Jackhammer	0.035	100	0.0058	
2 – Fast Food Restaurant (E)	Jackhammer	0.035	120	0.0046	
3 – Service Station (E)	Jackhammer	0.035	180	0.0027	
Source: MIG 2017					

e,f) **No Impact.** The project site is not located within two miles of a public or private use airport or heliport.³⁹ Therefore, no impacts would occur.

2.e

4.13 – Population and Housing

Would the project:

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				
b)	Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?				
c)	Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?				

a) **No Impact.** The proposed project consists of a car wash facility that would employ a maximum of three employees and would not induce population growth. No new expanded infrastructure is proposed that could accommodate additional growth in the area that is not already possible with existing infrastructure. No impact would occur.

b) **No Impact.** The project site is vacant and does not contain residential uses. The proposed project would not displace any residential units necessitating the construction of replacement housing elsewhere. No impact would occur.

c) **No Impact.** Displacement, in the context of housing, can generally be defined as persons or groups of persons who have been forced or obliged to flee or to leave their homes or places of habitual residence.⁴⁰ There no residences existing on site and no residents would be displaced with project development. The development of the project is consistent with the character of the project site. No impact would occur.

Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Fire pro	otection?				
b) Police	protection?				
c) School	s?				
d) Parks?					
e) Other p	public facilities?				

a) Less than Significant Impact. The Riverside County Fire Department provides fire protection, fire prevention, and emergency medical aid to the City of Moreno Valley. The Fire Prevention and Administration Bureau is located in the Public Safety Building at 22850 Calle San Juan de Los Lagos in the City of Moreno Valley's Civic Center. The fire station located nearest to the project site is Station 2 (24935 Hemlock Avenue), located approximately one-mile northeast of the project site. According to the General Plan EIR, the Department sets a goal to arrive on the scene of emergencies within five minutes of notification, 90 percent of the time.

According to the General Plan EIR, a 1999 impact fee study concluded that Station 2 and Station 58 would need to be replaced and three new stations would be needed through buildout of the City. Since the preparation of the 1999 impact fee study, Station 2 had been relocated to its current Hemlock Avenue location and one new station (College Park) has been constructed. Each new development, including the proposed project, shall be assessed a fee to contribute to its fair share of the cost of new fire facilities.

The proposed project would include the development a car wash within a built-out area. The proposed project would not have a significant impact on fire response times because the project is located within the existing service area. No new or expanded fire protection facilities would be required as a result of this project. Furthermore, the proposed project does not propose to use substantially hazardous materials or engage in hazardous activities that would require new or modified fire protection equipment to meet potential emergency demand. Impacts related to expansion of fire protection services would be less than significant.

b) Less than Significant Impact. The City of Moreno Valley contracts with the Riverside County Sheriff's Department to staff the Moreno Valley Police Department (MVPD). The Department is located in the Public Safety Building at 22850 Calle San Juan de Los Lagos in the City of Moreno Valley's Civic Center. The City is divided into four Zones with police officers assigned to a specific one to improve response times. Each Zone is comprised of a team that consist of one Zone Commander, one Zone Supervisor, and one Zone Coordinator. The project site is located in Zone 2. According to the City's

The proposed car wash would not result in any unique or more extensive crime problems that cannot be handled with the existing level of police resources. The proposed project is located in a built environment within the MVPD service area. No new or expanded police facilities would need to be constructed as a result of this project. Furthermore, the 1999 development fee impact study concluded that the existing police building, and the planned expansion of the facility would serve the needs of the City through buildout. All new development, including the proposed car wash, would be subject to pay development impact fees to cover its fair share of the cost for facility expansion. Impacts related to expansion of police protection services would be less than significant.

c) **No Impact.** As a car wash, there is no potential for households with school-age children locating in this development. No impact to school facilities would occur.

d) **No Impact.** Demand for park and recreational facilities are generally the direct result of residential development. The proposed project consists of a car wash and would not result in increased use of existing recreational facilities. No impact would occur.

e) Less than Significant Impact. The proposed project consists of the development of a car wash. The project would not result in an increase in residents that would generate additional demand for public facilities such as libraries or hospitals. Development of the proposed project would not require expansion of any other public services such as libraries or hospitals. The proposed development would not significantly increase the demand of such services. A less than significant impact would occur.

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				
b)	Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?				

a) **No Impact.** The proposed project consists of a car wash and would not result in increased use of existing recreational facilities. Therefore, no impact would occur.

b) **No Impact.** The project consists of a car wash and would not result in the construction or expansion of on-site or existing outdoor recreational facilities. Therefore, there would be no adverse physical effect on the environment caused by expansion or construction of outdoor recreational facilities. No impact would occur.

4.16 – Transportation and Traffic

Would the project:

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?				
b)	Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?				
c)	Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?				
d)	Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				
e)	Result in inadequate emergency access?			✓	
f)	Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?				

a) Less than Significant Impact. A traffic impact study was not prepared for the proposed project. According to the City of San Diego Land Development Code Trip Generation Manual, full service car washes are estimated to generate 450 trips per day. According to the Institute of Traffic Engineers (ITE) Trip Generation Handbook 9th Edition, automated car washes are estimated

to generate 13.63 PM peak hour trips per thousand square feet of the facility. The car wash tunnel, which allows one car to be washed at one time, is 3,120 square feet (see Exhibit 2, Site Plan) and is estimated to generate 43 PM peak hour trips.

A traffic study was not required by the City of Moreno Valley. To assess project impacts, the roadway capacity for Sunnymead Boulevard was analyzed. According to the Moreno Valley General Plan Update EIR, the design capacity for Sunnymead Boulevard is 33,750 ADT. Table 13 (Roadway Capacity) summarizes estimated daily traffic. As shown in Table 13, daily traffic on Sunnymead Boulevard is within the design capacity of 33,750 ADT. Therefore, impacts would be less than significant.

		Table 13			
	R	oadway Capaci	ity		
	Avera	ge Daily Traffic	Volumes		Acceptable
			Existing Plus	Design	Traffic
Roadway	Existing	Project	Project	Capacity	Volume?
Sunnymead Boulevard	15,764	450	16,214	33,750	Yes
Source: MIG 2017	•		•		

b) **No Impact.** The proposed project could result in significant impacts if it conflicts with the Riverside County Congestion Management Program (CMP) through reducing the Level of Service of a non-exempt segment to fall to "F". If LOS for a non-exempt segment is reduced to "F", a deficiency plan outlining specific mitigation measure and a schedule for mitigating the deficiency will be required. The nearest affected CMP designated highway is SR-60. There are no CMP designated arterials within the project vicinity. A traffic study was not required because the proposed project would result in less than 50 peak hour trips; therefore, impact on CMP designated freeways and roadways would not occur.

c) **No Impact.** A significant impact would occur if the proposed project caused a change in air traffic patterns that would result in a substantial safety risk. The project site is not located within an airport land use plan and does not include any structures that would change air traffic patterns or uses that would generate air traffic. Therefore, no impacts related to a change in air traffic patterns would occur.

d) **No Impact.** A significant impact would occur if the proposed project substantially increased an existing hazardous design feature or introduced incompatible uses to the existing traffic pattern. Access to the project site is proposed via Sunnymead Boulevard. The design of the proposed project would comply with all applicable City regulations. Furthermore, the proposed project does not involve changes in the alignment of Sunnymead Boulevard or SR-60 and the proposed car wash is consistent with existing commercial and auto care uses adjacent to the project site on the west. The proposed project would not result in a traffic safety hazard due to any design features. No impact would occur.

e) Less than Significant Impact. A significant impact would occur if the design of the proposed project would not satisfy emergency access requirements of the Riverside County Fire Department or in any other way threaten the ability of emergency vehicles to access and serve the project site or adjacent uses. The proposed project would not result in inadequate emergency access. As discussed above, access to the project site is proposed via Sunnymead Boulevard. The driveway width, 36 feet (with an entrance of 20 feet and exit of 16 feet), is sufficient to provide access to fire and emergency vehicles and is consistent with the California Fire Code requiring a minimum of 20 feet. All access features are subject to and must satisfy the City of Moreno Valley design requirements, including the Fire Department's requirements. This project would not result in adverse impacts with regard to emergency access.

f) **Less than Significant Impact.** Public bus transit service in the project vicinity is currently provided by the Riverside Transit Agency Route 11. Route 11 stops along a loop route to include the following stops: Moreno Valley Mall, Perris & Hemlock, Alessandro & Heacock, Meyer & 6th, and Frederick & Alessandro.⁴¹ The proposed project would not conflict with or decrease the performance or safety of these services. Impacts would be less than significant.

4.17 – Tribal Cultural Resources

Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a Cultural Native American tribe, and that is:

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Listed or eligible for listing in the California Register of Historical resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k), or				
b)	A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.				

a -b) Less than Significant Impact with Mitigation Incorporated. Assembly Bill (AB) 52 specifies that a project that may cause a substantial adverse change to a defined Tribal Cultural Resources (TCR) may result in a significant effect on the environment. AB 52 requires tribes interested in development projects within a traditionally and culturally affiliated geographic area to notify a lead agency of such interest and to request notification of future projects subject to CEQA prior to determining if a negative declaration, mitigated negative declaration, or environmental impact report is required for a project. The lead agency is then required to notify the tribe within 14 days of deeming a development application subject to CEQA complete to notify the requesting tribe as an invitation to consult on the project. AB 52 identifies examples of mitigation measures that will avoid or minimize impacts to TCR. The bill makes the above provisions applicable to projects that have a notice of preparation or a notice of intent to adopt a negative declaration/mitigated negative declaration circulated on or after July 1, 2015. AB 52 amends Sections 5097.94 and adds Sections 21073, 21074, 2108.3.1., 21080.3.2, 21082.3, 21083.09, 21084.2, and 21084.3 to the California Public Resources Code (PRC), relating to Native Americans.

The City of Moreno Valley initiated AB 52 consultation for the proposed project. Three letters were received in response and are summarized below:

- Agua Caliente Band of Cahuilla Indians (ACBCI) The project site is not located within the boundaries of the ACBCI Reservation, but is located within the Tribe's Traditional Use Area. Therefore, the Tribe has requested copies of the cultural resource inventory, documentation, and records search results.
- Soboba Band of Luiseño Indians The Tribe has requested the initiation of formal consultation with the City of Moreno Valley and is currently ongoing as of May 2017.
- Pechanga Cultural Resources, Temecula Band of Luiseño Mission Indians The Tribe has requested the initiation of formal consultation with the City of Moreno Valley and is currently ongoing as of May 2017.

Evaluation of Environmental Impacts

Despite the previous disturbances of the project site and developed nature of the project area that may have displaced or submerged archaeological resources relating to TCR's on the surface, it is possible that intact tribal cultural resources exist at depth. Due to this uncertainty, Mitigation Measures CR-1 through CR-9 have been incorporated to address any previously undiscovered archaeological resources relating to TCR's encountered during project implementation. Incorporation of these mitigation measures would ensure that potential impacts to buried TCRs are less than significant through requirements for evaluation, salvage, curation, and reporting.

Mitigation Measures

- CR-1 Prior to the issuance of a grading permit, the City shall retain a professional archaeologist to conduct monitoring of all mass grading and trenching activities. The Project Archaeologist shall have the authority to temporarily redirect earthmoving activities in the event that suspected archaeological resources are unearthed during Project construction. The Project Archaeologist, in consultation with the Consulting Tribe(s), the contractor, and the City, shall develop a Cultural Resources Management Plan (CRMP) in consultation pursuant to the definition in AB52 to address the details, timing and responsibility of all archaeological and cultural activities that will occur on the project site. A consulting tribe is defined as a tribe that initiated the AB 52 tribal consultation process for the Project, has not opted out of the AB52 consultation process, and has completed AB 52 consultation with the City as provided for in Cal Pub Res Code Section 21080.3.2(b)(1) of AB52. Details in the Plan shall include:
 - a. Project grading and development scheduling;
 - b. The Project archeologist and the Consulting Tribes(s) as defined in CR-1 shall attend the pre-grading meeting with the City, the construction manager and any contractors and will conduct a mandatory Cultural Resources Worker Sensitivity Training to those in attendance. The Training will include a brief review of the cultural sensitivity of the Project and the surrounding area; what resources could potentially be identified during earthmoving activities; the requirements of the monitoring program; the protocols that apply in the event inadvertent discoveries of cultural resources are identified, including who to contact and appropriate avoidance measures until the find(s) can be properly evaluated; and any other appropriate protocols. All new construction personnel that will conduct earthwork or grading activities that begin work on the Project following the initial Training must take the Cultural Sensitivity Training prior to beginning work and the Project archaeologist and Consulting Tribe(s) shall make themselves available to provide the training on an as-needed basis;
 - c. The protocols and stipulations that the contractor, City, Consulting Tribe(s) and Project archaeologist will follow in the event of inadvertent cultural resources discoveries, including any newly discovered cultural resource deposits that shall be subject to a cultural resources evaluation.
- CR-2 Prior to the issuance of a grading permit, the City of Moreno Valley shall secure agreements with the Pechanga Band of Luiseño Indians and Soboba Band of Luiseño Indians for tribal monitoring. The City is also required to provide a minimum of 30 days advance notice to the tribes of all mass grading and trenching activities. The Native American Tribal Representatives shall have the authority to temporarily halt and redirect earth moving activities in the affected area in the event that suspected archaeological resources are unearthed. If the Native American Tribal Representatives suspect that an archaeological resource may have been unearthed, the Project Archaeologist or the Tribal Representatives shall immediately redirect grading operations in a 100-foot radius around the find to allow identification and evaluation of the suspected resource. In consultation with the Native American Tribal Representatives, the Project Archaeologist shall evaluate the suspected resource and make a determination of significance pursuant to California Public Resources Code Section 21083.2.
- CR-3 In the event that Native American cultural resources are discovered during the course of grading (inadvertent discoveries), the following procedures shall be carried out for final disposition of the discoveries:

- a) One or more of the following treatments, in order of preference, shall be employed with the tribes. Evidence of such shall be provided to the City of Moreno Valley Planning Department:
 - i. Preservation-In-Place of the cultural resources, if feasible. Preservation in place means avoiding the resources, leaving them in the place they were found with no development affecting the integrity of the resources.
 - <u>ii.</u> Onsite reburial of the discovered items as detailed in the treatment plan required pursuant to Mitigation Measure CR-1. This shall include measures and provisions to protect the future reburial area from any future impacts in perpetuity. Reburial shall not occur until all legally required cataloging and basic recordation have been completed. No recordation of sacred items is permitted without the written consent of all Consulting Native American Tribal Governments as defined in CR-1.
- CR-4 The City shall verify that the following note is included on the Grading Plan: "If any suspected archaeological resources are discovered during ground-disturbing activities and the Project Archaeologist or Native American Tribal Representatives are not present, the construction supervisor is obligated to halt work in a 100-foot radius around the find and call the Project Archaeologist and the Tribal Representatives to the site to assess the significance of the find."
- CR-5 The Project Applicant shall provide evidence to the City of Moreno Valley that a qualified paleontologist has been retained by the Project Applicant to conduct monitoring of excavation activities and has the authority to halt and redirect earthmoving activities in the event that suspected paleontological resources are unearthed.
- CR-6 The paleontological monitor shall conduct full-time monitoring during grading and excavation operations in undisturbed, very old alluvial fan sediments and shall be equipped to salvage fossils if they are unearthed to avoid construction delays and to remove samples of sediments that are likely to contain the remains of small fossil invertebrates and vertebrates. The paleontological monitor shall be empowered to temporarily halt or divert equipment to allow of removal of abundant and large specimens in a timely manner. Monitoring may be reduced if the potentially fossiliferous units are not present in the subsurface, or if present, are determined upon exposure and examination by qualified paleontological personnel to have a low potential to contain or yield fossil resources.
- CR-7 Recovered specimens shall be properly prepared to a point of identification and permanent preservation, including screen washing sediments to recover small invertebrates and vertebrates, if necessary. Identification and curation of specimens into a professional, accredited public museum repository with a commitment to archival conservation and permanent retrievable storage, such as the Western Science Museum in Hemet, California, is required for significant discoveries.
- CR-8 A final monitoring and mitigation report of findings and significance shall be prepared, including lists of all fossils recovered, if any, and necessary maps and graphics to accurately record the original location of the specimens. The report shall be submitted to the City of Moreno Valley prior to building final.
- CR-9 If potential historic or cultural resources are uncovered during excavation or construction activities at the project site, work in the affected area must cease immediately and a qualified person meeting the Secretary of the Interior's standards (36 CFR 61), Tribal Representatives, and all site monitors per the Mitigation Measures, shall be consulted by the City to evaluate the find, and as appropriate recommend alternative measures to avoid, minimize or mitigate negative effects on the historic, or prehistoric resource. Determinations and recommendations by the consultant shall be immediately submitted to the Planning Division for consideration, and implemented as deemed appropriate by the Community Development Director, in consultation with the State Historic Preservation Officer (SHPO) and any and all Consulting Native American Tribes as defined in CR-1 before any further work commences in the affected area.

If human remains are discovered, no further disturbance shall occur in the affected area until the County Coroner has made necessary findings as to origin. If the County Coroner determines that the remains are potentially Native American, the California Native American Heritage Commission shall be notified within 5-days of the published finding to be given a reasonable opportunity to identify the "most likely descendant". The "most likely descendant" shall then make recommendations, and engage in consultations concerning the treatment of the remains (California Public Resources Code 5097.98). (GP Objective 23.3, CEQA).

4.18 – Utilities and Service Systems

Would the project:

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?				
b)	Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				
c)	Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				
d)	Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?				
e)	Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?				
f)	Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?				
g)	Comply with federal, state, and local statutes and regulations related to solid waste?				

a) Less than Significant Impact. The proposed project could affect Regional Water Quality Control Board treatment standards by increasing wastewater production such that expansion of existing facilities or construction of new facilities would be required. Exceeding the RWQCB treatment standards could result in contamination of surface or groundwater with pollutants such as pathogens and nitrates.

New development in the City is required to install wastewater infrastructure concurrent with project development. Wastewater service in the City is provided by the Eastern Municipal Water District (EMWD) for maintenance of local sewer lines that collect wastewater generated in the City. All wastewater generated by the interior plumbing system of the proposed project would be discharged into the local sewer main and conveyed for treatment at the Moreno Valley Regional

Evaluation of Environmental Impacts

Water Reclamation Facility (MVRWRF). The MVRWRF has the capacity to treat 16 million gallons of wastewater per day (mgd) and the capacity to expand to 41 mgd. As of October 2016, the typical daily flow at MVRWRF is 10.6 mgd with the ability to divert approximately two mgd to the Perris Facility.⁴² Wastewater flows associated with the proposed project would consist of the same kinds of substances typically generated by commercial uses and no modifications to any existing wastewater treatment systems or construction of any new ones would be needed to treat this project's wastewater. Water use for the car wash was conservatively estimated at 20 gallons per vehicle based on estimates provided by the Applicant. Number of vehicles washed was estimated at 450 daily. With a resulting total of 164,250 vehicles washed annually, total water demand is estimated at 3,285,000 gallons per year (9,000 gpd). Interior water use is estimated at 773 gpd and outdoor water use for landscaping is estimated at 572 gpd. Wastewater is typically estimated to be 80 percent of total water use. Therefore, estimated wastewater generation from interior demand and outdoor irrigation demand is 8,276 gpd.

Total estimated wastewater generation to be conveyed to MVRWRF is estimated at 8,276 gpd. This volume is within the remaining capacity of the MVRWRF's 16 mgd total treatment capacity. This project would thus have a less-than-significant impact on the ability of the MVRWRF to operate within its established wastewater treatment requirements, which are enforced via the facility's NPDES permit authorized by the Santa Ana Regional Water Quality Control Board (SARWQCB). Therefore, the project would have a less than significant impact related to wastewater treatment requirements of the SARWQCB.

b) Less than Significant Impact. The Eastern Municipal Water District (EMWD) would supply water to the project. Water is imported via the California Aqueduct from northern and central California, which is managed by the Metropolitan Water District of Southern California (MWD). A secondary source of imported water is provided by the Colorado Rivers Aqueduct. Water Code § 10910-10915 require the preparation of a water supply assessment (WSA) demonstrating sufficient water supplies for any subdivision that involves the construction of more than 500 dwelling units, or the equivalent thereof. As the project is below the established thresholds, no WSA is required.

According to the 2015 Urban Water Management Plan for EMWD, EMWD will continue to rely on imported water from MWD as the main source of supply. The water used within the EMWD service area as of 2015 was approximately 147,300 AFY and is expected to increase to 268,200 AFY (during a normal year) by the year 2040, an increase of 120,900 AFY.⁴³ Based on the CalEEMod assumptions, the proposed project's estimated water demand is approximately 11.6 AFY, within the estimated increase in water demand. According to the 2015 Urban Water Management Plan for EMWD, there is sufficient supply to accommodate demand under normal and single- and multiple-dry year conditions utilizing imported water.⁴⁴ Local supplies would supplement imported supplies and provide additional supply reliability. Local supplies include groundwater pumped from the San Jacinto groundwater Basin, desalinated groundwater, and recycled water.

The UWMP is based on area population projections as provided by SCAG. As discussed in Section 4.13, the proposed project is consistent with SCAG projections for the service area. As the estimated increase in water use is within the anticipated increase in the UWMP and the project is consistent with regional population projections, impacts would be less than significant.

Regarding wastewater facilities, as discussed in the preceding response, wastewater generated at the project site is treated at the Moreno Valley Regional Water Reclamation Facility (MVRWRF). The proposed project is estimated to have a wastewater generation of approximately 8,276 gpd. This generation is well within the existing remaining treatment capacity of the MVRWRF. Therefore, the expansion of the existing facility would not be required.

Connections to local water and sewer mains would involve temporary and less than significant construction impacts that would occur in conjunction with other on-site improvements. The project site is located within the existing service area of EMWD and is surrounded by existing development that is currently connected to existing EMWD water and wastewater lines. No additional improvements are needed to either water lines, sewer lines, or treatment facilities to serve the proposed project. Standard connection fees would address any incremental impacts of the proposed project. Therefore, the proposed project would result in less than significant impacts as a result of new or expanded wastewater treatment facilities.

c) Less than Significant Impact. Potentially significant impacts could occur as a result of this project if storm water runoff was increased to a level that would require construction of new storm drainage facilities. As discussed in the Hydrology section, the proposed project would not generate any increased runoff from the site that would require construction of new storm drainage facilities. A NPDES permit would be required for the proposed project and, pursuant to Municipal Code Section 8.21.170, all construction projects shall prepare and submit a Storm Water Pollution Prevention Plan (SWPPP). Best Management Practices (BMPs) that include drainage controls such as detention ponds, dikes, filter berms, and downdrains to prevent runoff, and utilizing plastic covering to prevent erosion shall also be applied. Implementation of BMPs would reduce pollutants in stormwater and urban runoff from the project site. The proposed storm drainage system and BMPs must be designed to the satisfaction of the City's Public Works Director and in conformance with all applicable permits and regulations. The project applicant/developer would be required to provide all necessary on-site infrastructure. Impacts would be less than significant, and no mitigation beyond compliance with existing regulations is required. The project would have a less than significant impact on requiring the construction of new facilities or expansion of existing storm drainage facilities.

d) Less than Significant Impact. The proposed project could result in significant impacts if it required additional water supplies than are currently entitled. Water demand is provided by survey data utilized in the CalEEMod air quality model. Water demand is estimated at 3,776,283 gallons per year or 11.6 AFY. This number represents a conservative estimate because the proposed car wash would also utilize recycled water for car wash needs. The proposed project includes five 1,500-gallon underground storage tanks to store recycled water (capacity of 7,500 gallons).

Water demand within the EMWD service area is anticipated to increase by 120,900-acre feet per year (AFY) between 2015 and 2040. The proposed project's conservative estimated water demand, 11.6 AFY, is well within anticipated increase in demand. Based on the EMWD 2015 UWMP, there are sufficient water supplies to meet the proposed project's estimated water demand and long-term demand. The proposed project would not substantially deplete water supplies, and therefore would have a less than significant impact on entitled water supplies.

As summarized above, the 2015 UWMP indicates that there is adequate supply to serve the projected demand. The proposed project would comply with all water conservation and efficiency standards required by the Moreno Valley Public Works Department. Therefore, there are sufficient water supplies to meet the project's estimated water demand and long-term demand. The proposed project would not substantially deplete water supplies, and it would have a less than significant impact on entitled water supplies.

e) **Less than Significant Impact.** As detailed in Sections 4.17.a and 4.17.b, the proposed project would be adequately served by existing facilities. Therefore, a less than significant impact would occur.

f) Less than Significant Impact. Significant impacts could occur if the proposed project would exceed the existing permitted landfill capacity or violates federal, state, and local statutes and regulations. Compliance with County waste reduction programs and policies would reduce the volume of solid waste entering landfills. Individual development projects within the County would be required to comply with applicable state and local regulations, thus reducing the amount of landfill waste by at least 50 percent. The proposed project would increase the volume of solid waste generated in the County by 19.5 tons per year. According to CalRecycle, solid waste facilities serving Riverside County are projected to have a combined annual disposal limit of 3,633,512 tons and an annual remaining lifetime capacity surplus of 154,709,576 tons in the year 2025.⁴⁵ Combined remaining capacities at the landfills would be adequate to accommodate the proposed project. Impacts related to sufficient landfill capacity are anticipated to be less than significant.

g) **No Impact.** The proposed project is required to comply with all applicable federal, state, County, and City statutes and regulations related to solid waste as a standard project condition of approval. Therefore, no impact would occur.

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?				
b)	Does the project have impacts that are individually limited, but cumulatively considerable?				
c)	Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?				

4.19 – Mandatory Findings of Significance

a) Less than Significant with Mitigation Incorporated. The proposed project would not substantially impact any scenic vistas, scenic resources, or the visual character of the area, as discussed in Section 4.1 and would not result in excessive light or glare. The project site is located within a developed area with no natural habitat. The proposed project would not significantly impact any sensitive plants, plant communities, fish, wildlife or habitat for any sensitive species with mitigation incorporated. Construction-phase mitigation would be implemented to reduce potential impacts to burrowing owls and nesting birds to less-than-significant levels. There would be no impact to migratory birds. Adverse impacts to historic resources would not occur. Construction-phase procedures would be implemented in the event any important cultural, archaeological, or paleontological resources are discovered during grading, consistent with Mitigation Measures C-1 through C-5. This site is not known to have any association with an important example of California's history or prehistory. The environmental analysis provided in Section 4.3 concludes that impacts related to emissions of criteria pollutants and other air quality impacts would be less than significant. Sections 4.7 and 4.9 conclude that impacts related to climate change and hydrology and water quality would be less than significant. Based on the preceding analysis of potential impacts in the environment. Impacts related to degradation of the environment, biological resources, and cultural resources would be less than significant.

b) Less than Significant with Mitigation Incorporated. Cumulative impacts can result from the interactions of environmental changes resulting from one proposed project with changes resulting from other past, present, and future projects that affect the same resources, utilities and infrastructure systems, public services, transportation network elements, air basin, watershed, or other physical conditions. Such impacts could be short-term and temporary, usually consisting of overlapping construction impacts, as well as long term, due to the permanent land use changes and operational characteristics involved with the proposed project. Cumulative impacts would be less than significant with mitigation incorporated, as further discussed herein.

Aesthetics

Impacts related to aesthetics at the project-level have no potential for cumulative impacts because impacts are limited to onsite conditions and include no component that could result in similar impacts over time or space. Therefore, no cumulative impacts related to this topic would occur.

Agricultural Resources

The analysis provided in Sections 4.2 found that no individual impacts would occur; therefore, the project could not contribute considerably to local agricultural or forestry.

Air Quality

The analysis provided in Section 4.3 related to air quality found that impacts would be less than significant without the need for mitigation; therefore, the project would not contribute to localized or regional cumulative impacts.

Biological Resources

The analysis provided in Section 4.4 found that no individual impacts to sensitive species or migratory birds would occur; therefore, the project could not contribute considerably to regional impacts on such species. To reduce potential impacts to burrowing owls and nesting birds, Mitigation Measures BIO-1 through BIO-3 have been incorporated. The project would have no other impacts on biological resources and would not result in localized or regional cumulative impacts.

Cultural Resources

Loss of on-site archaeological resources could reduce or eliminate important information relevant to the County of Riverside and the City of Moreno Valley. Impacts related to cultural resources were found to be potentially significant and require mitigation to reduce to less than significant levels; therefore, the project could contribute considerably to significant localized cumulative impacts in this topic area. Mitigation Measures CR-1 through CR-4 have been incorporated to reduce impacts to archaeological resources, Mitigation Measure CR-5 has been incorporated to reduce impacts to paleontological resources, and Mitigation Measure CR-9 has been incorporated to reduce impacts to human remains. Implementation of Mitigation Measures CR-1 through CR-9 would eliminate any potential loss of important local archaeological, and paleontological information or human remains that may be buried under the project site; therefore, the proposed project would have no contribution to a cumulative loss of important local or regional archaeological knowledge.

Geology and Soils

Impacts related to geology at the project-level have no potential for cumulative impacts because impacts are limited to onsite conditions and include no component that could result in similar impacts over time or space. Therefore, no cumulative impacts related to this topic would occur.

Greenhouse Gas Emissions

As discussed in Section 4.7, climate change is the result of numerous, cumulative sources of greenhouse gas emissions all over the world. The project would not contribute considerably to global climate change.

Hazardous Materials

The analysis provided in Section 4.8 related to hazards and hazardous materials found that impacts would be less than significant. Compliance with all regulations related to the disposal and storage of household hazardous waste would ensure that impacts would be less than significant.

Airport Hazards

Impacts related to airport hazards at the project-level have no potential for cumulative impacts because impacts are limited to on-site conditions and include no component that could result in similar impacts over time or space. Therefore, no cumulative impacts related to this topic would occur.

Wildfires

The analysis provided in Section 4.8(h) found that no individual, local, or regional impacts would occur; therefore, no cumulative impacts related to this topic would occur.

Groundwater Levels

The analysis provided in Section 4.9 (b) found that less than significant local, or regional impacts would occur; therefore, while the project would contribute to individual, localized or regional cumulative impacts, the project contribution would not be considerable.

Drainage/Water Quality

The analysis provided in Section 4.9 (a), (c), (d), (e) and (f), found that less than significant individual, local, or regional impacts would occur; therefore, while the proposed project would contribute to individual, localized or regional cumulative impacts, its contribution would not be considerable.

Flooding

The analysis provided in Section 4.9 (g), (h), and (i), found that no regional impacts would occur; therefore, no cumulative impacts related to this topic would occur.

Land Use and Planning

The analysis provided in Section 4.10 related to Land Use and Planning found that impacts would be less than significant; therefore, while the proposed project would contribute to individual, localized or regional cumulative impacts, its contribution would not be considerable.

Mineral Resources

The analysis provided in Section 4.11 related to mineral resources found that there would be no impact; therefore, while the project would contribute to localized or regional cumulative impacts, the project contribution would not be considerable.

Noise

Due to the location of the project adjacent to SR-60, on-site operational noise, as discussed in Section 4.12, is not anticipated to result in perceptible increases in ambient noise. Therefore, the proposed project would not contribute considerably to noise levels in the immediate vicinity of the project. The project would contribute to temporary increases in noise levels in the immediate project vicinity during construction activities; however, Mitigation Measure N-1 would be incorporated to minimize construction-related noise and therefore the project's contribution would not be considerable. Mitigation Measure N-2 would ensure that a soundwall is installed to mitigate noise impacts on nearby receptors from noise associated with car wash equipment. The project would increase traffic in the project area; however, project traffic-related noise would not be discernible (as discussed in Section 4.12.C) to the public and therefore would have no considerable contribution to cumulative traffic-related noise.

Population and Housing

The analysis provided in Section 4.13 related to Population and Housing found that no impacts would result; therefore, no cumulative impacts related to this topic would occur.

Public Services

The analysis provided in Section 4.14 related to Public Services found that impacts would be less than significant; therefore, while the proposed project would contribute to localized cumulative impacts, the contribution would not be cumulatively considerable.

Recreation

The analysis provided in Section 4.15 related to Recreation found that no impacts would result; therefore, no cumulative impacts related to this topic would occur.

Traffic and Transportation

Evaluation of Environmental Impacts

Traffic conditions were analyzed in Section 4.16.a and found to be less than significant. There is and would be adequate capacity to serve the uses along Sunnymead Boulevard with the addition of the proposed project. Impacts to regional transportation facilities are analyzed in Section 4.16.b. The proposed project would have no impact on regional (Congestion Management Program) facilities in the project area. The proposed project's contribution to cumulative impacts to local and regional transportation facilities would not be considerable.

Tribal Cultural Resources

The analysis provided in Section 4.17 related to Tribal Cultural Resources identified that despite the previous disturbances of the project site and developed nature of the project area that may have displaced or submerged archaeological resources relating to TCR's on the surface, it is possible that intact tribal cultural resources exist at depth. Due to this uncertainty, Mitigation Measures CR-1 through CR-9 have been incorporated to address any previously undiscovered archaeological resources relating to TCR's encountered during project implementation. Incorporation of these mitigation measures would ensure that potential impacts to buried TCRs are less than significant through requirements for evaluation, salvage, curation, and reporting.

Utilities and Service Systems

The analysis provided in Section 4.18 related to Utilities and Service Systems found that impacts would be less than significant; therefore, while the project would contribute to localized or regional cumulative impacts, the project contribution would not be considerable.

c) Less than Significant with Mitigation Incorporated. Based on the analysis of the project's impacts in the responses to items 4.1 thru 4.18, there is no indication that this project could result in substantial adverse effects on human beings. While there would be a variety of temporary adverse effects during construction related to noise these would be reduced to less than significant levels through mitigation. Long-term effects include increased vehicular traffic, traffic-related noise, use of household hazardous materials, emissions of criteria pollutants and greenhouse gas emissions, and increased demand on emergency response services. The analysis herein concludes that direct and indirect environmental effects would at worst require mitigation to reduce to less than significant levels. Environmental effects would result in less than significant impacts. Based on the analysis in this Initial Study, the City finds that direct and indirect impacts to human beings would be less than significant with mitigation incorporated

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The California Environmental Quality Act (CEQA) requires that when a public agency completes an environmental document which includes measures to mitigate or avoid significant environmental effects, the public agency must adopt a reporting or monitoring program. This requirement ensures that environmental impacts found to be significant will be mitigated. The reporting or monitoring program must be designed to ensure compliance during project implementation (Public Resources Code Section 21081.6).

In compliance with Public Resources Code Section 21081.6, the following Mitigation Monitoring and Reporting Checklist in Table 14 has been prepared for the project. This Mitigation Monitoring and Reporting Checklist is intended to provide verification that all applicable Conditions of Approval relative to significant environmental impacts are monitored and reported. Monitoring will include: 1) verification that each mitigation measure has been implemented, 2) recordation of the actions taken to implement each mitigation, and 3) retention of records in the project file.

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Table 14Mitigation Monitoring Checklist

Mitigation Monitoring Checklist						
IDENTIFIED IMPACT	RELATED MITIGATION MEASURE (Performance Criteria)		MONITORING			VERIFICATIC
			Implementation Entity	Monitoring and Verification Entity	Timing Requirements	Signature
BIOLOGICAL RESOURCES			-			
Potentially significant impacts on burrowing owl.	BIO-1	All project sites containing burrowing owl habitat or burrows (based on Step 1 – Habitat Assessment) whether owls were found or not, require pre-construction surveys that shall be conducted within 14 days prior to ground disturbance to avoid direct take of burrowing owls.	Project Proponent	City	Prior to construction	
Potentially significant impacts on nesting birds.	BIO-2	To avoid impacts to nesting birds, construction activities and construction noise should occur outside the avian nesting season (February 1 to September 1). If construction occurs within the avian nesting season, all suitable habitats shall be thoroughly surveyed for the presence of nests by a qualified biologist no more than five days prior to commencement of any soil disturbance or vegetation removal. If it is determined that the project site is occupied by nesting birds, Mitigation Measure BIO-3 would reduce impacts to less than significant levels.	Project Proponent	City	Prior to construction	

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IDENTIFIED IMPACT	RELATED MITIGATION MEASURE	MONITORING			VERIFICATIC	
	(Perfor	mance Criteria)	Implementation Entity	Monitoring and Verification Entity	Timing Requirements	Signature
Potentially significant impacts on esting birds.	BIO-3	If pre-construction nesting bird surveys locate active nests, no construction-related activities shall "take" place within 300 feet of sensitive bird nests and 500 feet of raptor nests, or as determined by a qualified biologist. Protective measures (e.g., sampling) shall be required to ensure compliance with the MBTA and relevant California Fish and Game Code requirements.	Project Proponent	City	During construction	
CULTURAL AND HISTORIC RESOUP	RCES					

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IDENTIFIED IMPACT	RELATED MITIGATION MEASURE	MONITORING	VERIFICAT	<u> 1C</u>			
	(Performance Criteria)		Implementation Entity	Monitoring and Verification Entity	Timing Requirements	Signature	
In the event of the unanticipated discovery of archaeological or cultural resources relating to Tribal Cultural Resources during earthmoving operations.	CR-1	 Prior to the issuance of a grading permit, the City shall retain a professional archaeologist to conduct monitoring of all mass grading and trenching activities. The Project Archaeologist shall have the authority to temporarily redirect earthmoving activities in the event that suspected archaeological resources are unearthed during Project construction. The Project Archaeologist, in consultation with the Consulting Tribe(s), the contractor, and the City, shall develop a Cultural Resources Management Plan (CRMP) in consultation pursuant to the definition in AB52 to address the details, timing and responsibility of all archaeological and cultural activities that will occur on the project site. A consulting tribe is defined as a tribe that initiated the AB 52 tribal consultation process for the Project, has not opted out of the AB52 consultation process, and has completed AB 52 consultation with the City as provided for in Cal Pub Res Code Section 21080.3.2(b)(1) of AB52. Details in the Plan shall include: a. Project grading and development scheduling; b. The Project archeologist and the Consulting Tribes(s) as defined in CR-1 shall attend the pre-grading meeting with the City, the construction manager and any contractors and will conduct a mandatory Cultural Resources Worker Sensitivity Training to those in attendance. The Training will include a brief review of the cultural sensitivity of the Project and the surrounding area; what resources could potentially be identified during earthmoving activities; the requirements of the monitoring program; the protocols that apply in the event inadvertent discoveries of cultural Resources are identified, including who to contact and appropriate avoidance measures until the find(s) can be properly evaluated; and any other appropriate protocols. All new construction personnel that will conduct earthwork or grading activities that begin work on the Project following the initial Training must take the Cultural Sensitivity Training prior to beginning	Project Proponent	City	Prior to and During construction		

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	Signature			MONITORING	RELATED MITIGATION MEASURE	IDENTIFIED IMPACT	
Tribe(s) and Project archaeologist will follow in the event of inadvertent cultural resources discoveries, including any newly discovered cultural resources deposits that shall be subject to a cultural resources evaluation. In the event of the unanticipated CR-2 Prior to the issuance of a grading permit, the City of Moreno Valley shall Project City Prior to and		Timing Requirements	and Verification	Implementation Entity	formance Criteria)		
					Tribe(s) and Project archaeologist will follow in the event of inadvertent cultural resources discoveries, including any newly discovered cultural resource deposits that shall be subject to a cultural resources		
discovery of archaeological or cultural resources relating to Tribal Cultural Resources during earthmoving operations. Band of Luiseño Indians for tribal monitoring. The City is also required to provide a minimum of 30 days advance notice to the tribes of all mass grading and trenching activities. The Native American Tribal Representatives shall have the authority to temporarily halt and redirect earth moving activities in the affected area in the event that suspected archaeological resources are unearthed. If the Native American Tribal Representatives suspect that an archaeological resource may have been unearthed, the Project Archaeologist or the Tribal Representatives shall immediately redirect grading operations in a 100-foot radius around the find to allow identification and evaluation of the suspected resource. In consultation with the Native American Tribal Representatives, the Project Archaeologist shall evaluate the suspected resource and make a determination of significance pursuant to California Public Resources Code Section 21083.2.		During	City	Project Proponent	secure agreements with the Pechanga Band of Luiseño Indians and Soboba Band of Luiseño Indians for tribal monitoring. The City is also required to provide a minimum of 30 days advance notice to the tribes of all mass grading and trenching activities. The Native American Tribal Representatives shall have the authority to temporarily halt and redirect earth moving activities in the affected area in the event that suspected archaeological resources are unearthed. If the Native American Tribal Representatives suspect that an archaeological resource may have been unearthed, the Project Archaeologist or the Tribal Representatives shall immediately redirect grading operations in a 100-foot radius around the find to allow identification and evaluation of the suspected resource. In consultation with the Native American Tribal Representatives, the Project Archaeologist shall evaluate the suspected resource and make a determination of significance pursuant to California Public Resources Code	discovery of archaeological or cultural resources relating to Tribal Cultural Resources during	

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IDENTIFIED IMPACT		MONITORING	VERIFICATIC		
	(Performance Criteria)	Implementation Entity	Monitoring and Verification Entity	Timing Requirements	Signature
In the event of the unanticipated discovery of archaeological or cultural resources relating to Tribal Cultural Resources during earthmoving operations.	 CR-3 In the event that Native American cultural resources are discovered during the course of grading (inadvertent discoveries), the following procedures shall be carried out for final disposition of the discoveries: a) One or more of the following treatments, in order of preference, shall be employed with the tribes. Evidence of such shall be provided to the City of Moreno Valley Planning Department: i. Preservation-In-Place of the cultural resources, if feasible. Preservation in place means avoiding the resources, leaving them in the place they were found with no development affecting the integrity of the resources. ii. Onsite reburial of the discovered items as detailed in the treatment plan required pursuant to Mitigation Measure CR-1. This shall include measures and provisions to protect the future reburial area from any future impacts in perpetuity. Reburial shall not occur until all legally required cataloging and basic recordation have been completed. No recordation of sacred items is permitted without the written consent of all Consulting Native American Tribal Governments as defined in CR-1. 	Project Proponent Project	City	Following construction	
In the event of the unanticipated discovery of Tribal Cultural Resources during earthmoving operations.	of the unanticipated The City shall verify that the following note is included on the Gradi Tribal Cultural "If any suspected archaeological resources are discovered duri		City	Prior to and During construction	
In the event of the unanticipated discovery of paleontological resources during earthmoving operations.	CR-5 The Project Applicant shall provide evidence to the City of Moreno Valley that a qualified paleontologist has been retained by the Project Applicant to conduct monitoring of excavation activities and has the authority to halt and redirect earthmoving activities in the event that suspected paleontological resources are unearthed.	Project Proponent	City	Prior to construction	

Mitigation Summary						
IDENTIFIED IMPACT	RELATED MITIGATION MEASURE	MONITORING			VERIFICATIC	
	(Performance Criteria)	Implementation Entity	Monitoring and Verification Entity	Timing Requirements	Signature	lot Plan)
In the event of the unanticipated discovery of paleontological resources during earthmoving operations.	CR-6 The paleontological monitor shall conduct full-time monitoring during grading and excavation operations in undisturbed, very old alluvial fan sediments and shall be equipped to salvage fossils if they are unearthed to avoid construction delays and to remove samples of sediments that are likely to contain the remains of small fossil invertebrates and vertebrates. The paleontological monitor shall be empowered to temporarily halt or divert equipment to allow of removal of abundant and large specimens in a timely manner. Monitoring may be reduced if the potentially fossiliferous units are not present in the subsurface, or if present, are determined upon exposure and examination by qualified paleontological personnel to have a low potential to contain or yield fossil resources.	Project Proponent	City	Prior to construction		Program (2913 : PEN16-0113 Pl
In the event of the unanticipated discovery of paleontological resources during earthmoving operations.	CR-7 Recovered specimens shall be properly prepared to a point of identification and permanent preservation, including screen washing sediments to recover small invertebrates and vertebrates, if necessary. Identification and curation of specimens into a professional, accredited public museum repository with a commitment to archival conservation and permanent retrievable storage, such as the Western Science Museum in Hemet, California, is required for significant discoveries.	Project Proponent	City	During construction		and Reporting
In the event of the unanticipated discovery of paleontological resources during earthmoving operations.	CR-8 A final monitoring and mitigation report of findings and significance shall be prepared, including lists of all fossils recovered, if any, and necessary maps and graphics to accurately record the original location of the specimens. The report shall be submitted to the City of Moreno Valley prior to building final.	Project Proponent	City	After construction		on Monitoring

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IDENTIFIED IMPACT	RELATED MITIGATION MEASURE	MONITORING			VERIFICAT	<u>IC</u>
	(Performance Criteria)	Implementation Entity	Monitoring and Verification Entity	Timing Requirements	Signature	ot Plan)
In the event of the unanticipated discovery of paleontological resources during earthmoving operations. In the event of the unanticipated discovery of human remains.	CR-9 If potential historic or cultural resources are uncovered during excavation construction activities at the project site, work in the affected area cease immediately and a qualified person meeting the Secretary or Interior's standards (36 CFR 61), Tribal Representatives, and all monitors per the Mitigation Measures, shall be consulted by the Ci evaluate the find, and as appropriate recommend alternative measure avoid, minimize or mitigate negative effects on the historic, or prehis resource. Determinations and recommendations by the consultant sha immediately submitted to the Planning Division for consideration, implemented as deemed appropriate by the Community Develop Director, in consultation with the State Historic Preservation Officer (SH and any and all Consulting Native American Tribes as defined in the before any further work commences in the affected area. If human remains are discovered, no further disturbance shall occur in affected area until the County Coroner has made necessary findings a origin. If the County Coroner determines that the remains are potern Native American, the California Native American Heritage Commission be notified within 5-days of the published finding to be given a reasor opportunity to identify the "most likely descendant." The "most lidescendant" shall then make recommendations, and engage consultations concerning the treatment of the remains (California P Resources Code 5097.98). (GP Objective 23.3, CEQA).	must Proponent the site y to es to toric II be and nent IPO) CR-1 the as to tially shall able ikely in	City	During construction		gation Monitoring and Reporting Program(2913:PEN16-0113 Plo

DENTIFIED IMPACT		MONITORING	VERIFICATIC		
	(Performance Criteria)	Implementation Entity	Monitoring and Verification Entity	Timing Requirements	Signature
construction activities would emporarily increase the ambient oise levels in the project area.	 N-1 The following measures are required to ensure that project-related short-term construction noise levels are reduced to less-than-significant levels. Prior to issuance of demolition permits, a noise mitigation plan verifying that compliance with the following measures would reduce construction noise to within the allowable levels of 65 dBA for commercial uses. Should construction noise exceed allowable levels after implementation of the following measures, the use of sound curtains or other noise barriers shall be required. The noise mitigation plan shall identify the type and location of sound curtains or other noise barriers to be utilized to reduce construction noise to within allowable levels. Stationary construction noise sources such as generators or pumps must be located at least 100 feet from sensitive land uses, as feasible, or at maximum distance when necessary to complete work near sensitive land uses. This mitigation measure must be implemented throughout construction and may be periodically monitored by a contracted noise monitor. Datasheets completed by the contracted construction noise monitor may be submitted to the Planning Official, or designee during routine inspections. Construction staging areas must be located as far from noise sensitive land uses as feasible. This mitigation measure must be implemented throughout construction noise monitor, by the Planning Official or designee during routine inspections. Throughout construction, the contractor shall ensure all construction equipment is equipped with included noise attenuating devices and are properly maintained. This mitigation measure shall be periodically monitored by a contracted construction noise monitor, the Community Planning Official, or designee during routine inspections. 	Project Proponent	City	Prior to and during construction	

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IDENTIFIED IMPACT	RELATED MITIGATION MEASURE	MONITORING	VERIFICATIC		
	(Performance Criteria)	Implementation Entity	Monitoring and Verification Entity	Timing Requirements	Signature
	 Idling equipment must be turned off when not in use. This mitigation measure may be periodically monitored by a contracted construction noise monitor the Planning Official, or designee during routine inspections. Equipment must be maintained so that vehicles and their loads are secured from rattling and banging. This mitigation measure may be periodically monitored by a contracted construction noise monitor, the Planning Official, or designee during routine inspections. 				
Potentially significant noise impacts from car wash equipment and traffic.	N-2 The following measures are required to ensure that project-related	Project Proponent	City	Prior to and during construction.	

TRIBAL RESOURCES

Mitigation Summary					T	
IDENTIFIED IMPACT	RELATED MITIGATION MEASURE	MONITORING			VERIFICATIC	
		Implementation Entity	Monitoring and Verification Entity	Timing Requirements	Signature	ot Plan)
In the event of the unanticipated discovery of archaeological or cultural resources relating to Tribal Cultural Resources (TCRs) during earthmoving operations. In the event of the unanticipated discovery of human remains.	5	Project Proponent	City	Prior to and during construction		Mitigation Monitoring and Reporting Program(2913:PEN16-0113 PI

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6.1 – List of Preparers

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6.2 – Persons and Organizations Consulted

None

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- ⁴⁵ CalRecycle. Identify Disposal Facility Capacity Shortfalls. http://www.calrecycle.ca.gov/FacIT/facility/disposalgap.aspx [May 2017]

Appendix A Air Quality and Greenhouse Gas Assessment

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Sunnymead Boulevard Car Wash

Air Quality and Climate Change Assessment October 2017

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1 Executive Summary

Construction- and operation-related emissions of criteria pollutants and toxic air contaminant emissions were modeled and analyzed for the proposed car wash (project) located on Sunnymead Boulevard, south of SR-60 and west of Heacock Street in the City of Moreno Valley, California.

Furthermore, this report analyzes the project's consistency with the South Coast Air Quality Management District (SCAQMD) 2016 Air Quality Management Plan (AQMP) for the South Coast Air Basin. Cumulative impacts were analyzed using the methodology provided by the 1993 SCAQMD California Environmental Quality Act (CEQA) Air Quality Handbook. Additionally, this report models and analyzes construction- and operation-related emissions of greenhouse gases from the proposed project. This analysis utilizes guidance provided in the California Air Pollution Control Officers Association (CAPCOA) *CEQA and Climate Change* white paper and the *Quantifying Greenhouse Gas Mitigation Measures* handbook. Modeling of emissions utilizes the California Emissions Estimator Model (CalEEMod) v 2016.3.1.

1.1 Project Description

The project includes the development of a new car wash facility on 1.68 acres of vacant land (APN 292-160-023) on Sunnymead Boulevard, south of State Route 60 and west of Heacock Street in the City of Moreno Valley, California. The car wash consists of one automated tunnel and a small associated building. The facility includes two large canopies under which patrons may park to vacuum their vehicles. Thirty-nine total parking spaces will be provided, including two Americans with Disabilities Act (ADA) parking stalls and two clean air stalls. Approximately 15,000 square feet of landscaping will be provided.

1.2 Air Quality

The project will not result in substantial emissions of oxides of nitrogen, volatile organic compounds, or particulate matter and would not exceed the regional growth assumptions used in the Air Quality Management Plan (AQMP). The project will not individually cause or cumulatively contribute to an air quality standard violation. Emissions of carbon monoxide and the effects of localized criteria pollutant emissions will not substantially impact sensitive receptors in vicinity of the project. The project will not expose a substantial number of people to odors.

1.3 Climate Change

Greenhouse gas emissions will not exceed the annual 3,000 metric ton carbon dioxide equivalent threshold established by the South Coast Air Quality Management District and will not conflict with state greenhouse gas emissions strategies.

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2 Introduction

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This report models and analyzes construction- and operation-related emissions of criteria air pollutants, toxic air contaminants, and greenhouse gas emissions from the proposed car wash facility. The project includes several car vacuuming stations and associated canopy on 1.68 acres in Moreno Valley, California.

The air quality analysis provided herein utilizes guidance provided in the South Coast Air Quality Management District (SCAQMD) the 1993 California Environmental Quality Act (CEQA) Air Quality handbook as amended and supplemented (http://www.aqmd.gov/ceqa/hdbk.html). Pollutant emissions were modeled by utilizing the following:

California Emissions Estimator Model (CalEEMod) v 2016.3.1

The climate change analysis provided herein utilizes guidance provided in the California Air Pollution Control Officers Association (CAPCOA) *CEQA and Climate Change* white paper and the *Quantifying Greenhouse Gas Mitigation Measures* handbook. Modeling of greenhouse gas emissions utilizes the California Emissions Estimator Model (CalEEMod) v 2016.3.1.

This report has been prepared utilizing project-specific characteristics where available. In those instances where projectspecific data is not available, the analysis has been supplemented by model defaults or other standardized sources of comparable data. In any case where non-project defaults or other data have been used, a "worst-case" scenario was developed to ensure a conservative estimate of emissions.

This report has been prepared for use by the Lead Agency to assess potential project-related air quality impacts in compliance with the State CEQA Statutes and Guidelines, particularly in respect to the air quality issues identified in Appendix G of the State CEQA Guidelines. This report does not make determinations of significance pursuant to CEQA because such determinations are required to be made solely in the purview of the Lead Agency.

This document has been reviewed in accordance with the *Table 7-2, Checklist for an Air Quality Analysis Section* of the SCAQMD Air Quality Handbook for quality control purposes.

This report was prepared by Christopher Brown (Director of Environmental Services) and Hayden Agnew-Wieland (Assistant Analyst) of MIG, Inc. under contract by Tri Millennium Properties.

Christopher Brown Director of Environmental Services

Hayden Agnew-Wieland Assistant Analyst

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3 Environmental Setting

3.1 Climate

The project is located in the City of Moreno Valley. The City of Moreno Valley and the broader Inland Empire are defined by a semi-arid, Mediterranean climate with mild winters and warm summers. Annual rainfall averages 10 inches with the rainy season occurring during the winter.¹ The coolest month of the year is December with an average monthly low of 41.3° Fahrenheit (F). The warmest month is August with an average monthly high of 94.4° F. Moreno Valley is located at an elevation of approximately 1,631 feet above mean sea level (AMSL). The project site is located at an approximate elevation of 1,643 AMSL.² Wind generally blows from the west.³

3.2 Regional Air Quality

The proposed car wash is located within the South Coast Air Basin (Basin).⁴ The Basin includes Orange County and the nondesert portions of Los Angeles, San Bernardino, and Riverside Counties. The Basin is bounded by the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east that trap ambient air and pollutants within the Los Angeles and Inland Empire valleys below. The Basin is managed by the South Coast Air Quality Management District (SCAQMD). Pursuant to the California Clean Air Act (CCAA), SCAQMD is responsible for bringing air quality within the Basin into conformity with federal and state air quality standards by reducing existing emission levels and ensuring that future emission levels meet applicable air quality standards. SCAQMD works with federal, state, and local agencies to reduce pollutant emissions from stationary, mobile, and indirect pollutant sources through the development of rules and regulations.

Both California and the federal government have established health-based ambient air quality standards (AAQS) for seven air pollutants (known as *criteria pollutants*). These pollutants include ozone (O₃), carbon monoxide (CO), nitrogen dioxide (NO₂), sulfur dioxide (SO₂), inhalable particulate matter with a diameter of 10 microns or less (PM₁₀), fine particulate matter with a diameter of 2.5 microns or less (PM_{2.5}), and lead (Pb). The State has also established AAQS for the additional pollutants of visibility reducing particles, sulfates, hydrogen sulfide, and vinyl chloride. The AAQS are designed to protect the health and welfare of the populace within a reasonable margin of safety. Where the State and Federal standards differ, State AAQS are more stringent than Federal AAQS. Federal and State standards are shown in Table 1 (Ambient Air Quality Standards). A brief description of each criteria pollutant is provided herein.

Ozone. Ozone is a pungent, colorless, and highly reactive gas that forms from the atmospheric reaction of organic gases with nitrogen oxides in the presence of sunlight. Ozone is most commonly associated with smog. Ozone precursors such as reactive organic gases (ROG) and oxides of nitrogen (NO_X) are released from mobile and stationary sources. Ozone is a respiratory irritant and can cause cardiovascular diseases, eye irritation, and impaired cardiopulmonary function. Ozone cause also damage building materials and plant leaves.

Carbon Monoxide. Carbon monoxide is primarily emitted from vehicles due to the incomplete combustion of fuels. Carbon monoxide has wide ranging impacts on human health because it combines with hemoglobin in the body and reduces the amount of oxygen transported in the bloodstream. Carbon monoxide can result in reduced tolerance for exercise, impairment of mental function, impairment of fetal development, headaches, nausea, and death at high levels of exposure.

Nitrogen Dioxide. Nitrogen dioxide and other oxides of nitrogen (NO_X) contribute to the formation of smog and results in the brownish haze associated with it. They are primarily emitted from motor vehicle exhaust but can be omitted from other high-temperature stationary sources. Nitrogen oxides can aggravate respiratory illnesses, reduce visibility, impair plant growth, and form acid rain.

Particulate Matter. Particulate matter is a complex mixture of small-suspended particles and liquid droplets in the air. Particulate matter between ten microns and 2.5 microns is known as PM₁₀, also known as coarse or inhalable particulate matter. PM₁₀ is emitted from diverse sources including road dust, diesel soot, combustion products, abrasion of tires and brakes, construction operations, and windstorms. PM₁₀ can also be formed secondarily in the atmosphere when NO₂ and SO₂

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Attachment: Appendix A - Air Quality and Greenhouse Gas Assessment (2913 : PEN16-0113 Plot Plan)

react with ammonia. Particulate matter less than 2.5 microns in size are called PM_{2.5} or fine particulate matter. PM_{2.5} is primarily emitted from point sources such as power plants, industrial facilities, automobiles, wood-burning fireplaces, and construction sites. Particulate matter is deposited in the lungs and cause permanent lung damage, potentially resulting in lung disease and respiratory symptoms like asthma and bronchitis. Particulate matter has also been linked to cardiovascular problems such as arrhythmia and heart attacks. Particulate matter can also interfere with the body's ability to clear the respiratory tract and can act as a carrier of absorbed toxic substances. Particulate matter causes welfare issues because it scatters light and reduces visibility, causes environmental damage such as increasing the acidity of lakes and streams, and can stain and damage stone, such as that applied in statues and monuments.

Sulfur Dioxide. Sulfur dioxide and other oxides of sulfur (SO_X) are reactive gases emitted from the burning of fossil fuels, primarily from power plants and other industrial facilities.⁵ Other less impacting sources include metal extraction activities, locomotives, large ships, and off-road equipment. Human health impacts associated with SO_X emissions include bronchoconstriction and increased asthma symptoms.

Lead. Lead is primarily emitted from metal processing facilities (i.e. secondary lead smelters) and other sources such as manufacturers of batteries, paints, ink, ceramics, and ammunition. Historically, automobiles were the primary sources before lead was phased out of gasoline. The health effects of exposure to lead include gastrointestinal disturbances, anemia, kidney diseases, and potential neuromuscular and neurologic dysfunction. Lead is also classified as a probable human carcinogen.

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Pollutant	Averaging Time	California	a Standards ¹		National Star	ndards²
		Concentration ³	Method ⁴	Primary ^{3,5}	Secontary ^{3,6}	Method ⁷
Ozone (O3)	1 Hour	0.09 ppm (180 µg/m³)	Ultraviolet Photometry	-	Same as Primary	Ultraviolet Photometry
Ozone (O3)	8 Hour	0.07 ppm (137 µg/m³)		0.070 ppm (147 µg/m³)	Standard	Oli avolet Photometry
Respirable Particulate	24 Hour	50 µg/m³	Gravimetric or Beta	150 µg/m³	Same as Primary	Inertial Separation and
Matter (PM ₁₀) ⁸	Annual Arithmetic Mean	20 µg/m ³	Attenuation	-	Standard	Gravimetric Analysis
Fine Particulate	24 Hour	-	-	35 µg/m³	Same as Primary Standard	Inertial Separation and
Matter(PM _{2.5}) ⁸	Annual Arithmetic Mean	12 µg/m³	Gravimetric or Beta Attenuation	12 µg/m³	15 µg/m³	Gravimetric Analysis
Carbon	1 Hour	20 ppm (23 mg/ m ³)	Non-Dispersive	35 ppm (40 mg/m ³)	-	Non-Dispersive Infrared
Monoxide (CO)	8 Hour	9.0 ppm (10mg/m ³)	Infrared Photometry (NDIR)	9 ppm (10 mg/m ³)	-	Photometry (NDIR)
(00)	8 Hour (Lake Tahoe)	6 ppm (7 mg/ m ³)		-	-	-
Nitrogen	Annual Arithmetic Mean	0.03 ppm (57 μg/m³)	Gas Phase	0.053 ppm (100 µg/m ³)	Same as Primary Standard	Gas Phase
Dioxide (NO ₂)	(339 µg/	0.18 ppm (339 µg/m³)	Chemiluminescence	100 ppb (188 µg/m³)	-	Chemiluminescence
	1 Hour	0.25 ppm (655 µg/m³)		75 ppb (196 µg/m³)	-	
Sulfur Dioxide	3 Hour	-	Ultraviolet	-	0.5 ppm (1,300 µg/m³)	Ultraviolet Fluorescence; Spectrophotometry
(SO ₂)	24 Hour	0.04 ppm (105 µg/m³)	Fluorescence	0.14 ppm (for certain areas) ¹⁰	-	(Pararosaniline Method) -
	Annual Arithmetic Mean	-		0.030 ppm (for certain areas) ¹⁰	-	
	30 Day Average	1.5 µg/m³		-	-	
Lead ^{11,12}	Calendar Quarter	-	Atomic Absorption	1.5 µg/m ³ (for certain areas) ¹²	Same as Primary	High Volume Sampler and Atomic Absorption
	Rolling 3-Month Average ¹⁰	-		0.15 µg/m³	Standard	
Visibility Reducing Particles ¹³	8 Hour	See footnote 13	Beta Attenuation and Transmittance through Filter Tape		No	
Sulfates	24 Hour	25 µg/m³	Ion Chromatography	ļ	Federa	I
Hydrogen Sulfide	1 Hour	0.03 ppm (42 μg/m ³)	Ultraviolet Fluorescence		Standard	
Vinyl	24 Hour	0.01 ppm (26 µg/m³)	Gas Chromatography		Stanuar	

Table 1

Footnotes available at http://www.arb.ca.gov/research/aaqs/aaqs2.pdf

3.3 Non-Attainment Status

Air pollution levels are measured at monitoring stations located throughout the Basin. Areas that are in nonattainment with respect to criteria pollutants are required to prepare plans and implement measures that will bring the region into attainment. Table 2 (South Coast Air Basin Attainment Status) summarizes the attainment status in the Basin for the criteria pollutants. The Basin is currently in nonattainment status for ozone and inhalable and fine particulate matter.

Pollution problems in the Basin are caused by emissions within the area and the specific meteorology that promotes pollutant concentrations. Emissions sources vary widely from smaller sources such as individual residential water heaters and short-term grading activities to extensive operational sources including long-term operation of electrical power plants and other intense industrial use. Pollutants in the Basin are blown inward from coastal areas by sea breezes from the Pacific Ocean and are prevented from horizontally dispersing due to the surrounding mountains. This is further complicated by atmospheric temperature inversions that create inversion layers. The inversion layer in Southern California refers to the warm layer of air that lies over the cooler air from the Pacific Ocean. This is strongest in the summer and prevents ozone and other pollutants from dispersing upward. A ground-level surface inversion commonly occurs during winter nights and traps carbon monoxide emitted during the morning rush hour.

Table 2

South Coast Air Basin Attainment Status								
	State							
	Nonattainment							
Nonattainment	Nonattainment							
Attainment	Nonattainment							
Nonattainment	Nonattainment							
Attainment	Attainment							
Attainment	Nonattainment							
Attainment	Attainment							
Nonattainment	Nonattainment							
	Unclassified							
	Attainment							
	Unclassified							
15								
	Coast Air Basin Attain Federal Nonattainment Attainment Attainment Attainment Attainment Attainment Nonattainment 							

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The City of Moreno Valley is located within the Perris Valley air monitoring area (Area 24). The project site is located in Source Receptor Area (SRA) 24. Air quality in SRA 24 is monitored at SCAQMD Monitoring Station No. 4169. Air monitoring results for these areas over the last three years of available data is summarized in Table 3 (2013-2015 Local Air Quality).^{6 7 8} Table 4 (2013-2015 Air Quality Standards Exceedance) summarizes the number of days for each monitoring year that air quality standards were exceeded. This information is presented as a percentage, rather than discrete number of days, reflecting discrepancies in the number of days reporting between years and different criteria pollutants – and thus allowing for direct comparison. As you can see, several common criteria pollutants are not measured at the Perris Valley Station. Nonetheless, valuable data for ozone and PM₁₀ are provided. Based on the most recent air quality monitoring data (2015), the area experienced ozone pollution with a minimum of 25 days of O₃ samples that year that exceeded the State standard 1-hour standard.

Environmental Setting	Environ	mental	Setting
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Table 3
2013-2015 Local Air Quality

	C	0	O3 (F	PM)	NO ₂ (PPM)	PM10 (µg	g/m³)	PM _{2.5} (µ	g/m³)	Pb (µ	g/m³)	SO₄ (µg/m³)
Monitoring Station	Max 1- hr	Max 8- hr	Max 1-hr	Max 8-hr	Max 1-hr	AAM	Max 24-hr	AAM	Max 24-hr	AAM	Max Month	Max Qtr	Max 24-hr
SRA 24 Perris Valley	•					•		•			•		
2015			0.124	0.102			74	30.3					3.6
2014			0.117	0.094			87	35.1					3.5
2013			0.108	0.090			70	33.6					3.4
Source: SCAQMD 2013-20 pollutant not monitored PPM, parts per million µg/m3, micrograms per cu AAM, annual arithmetic me	bic meter												

	Table 4			
2013-2015 Air Quality Standards Exceedance (Percentage of Days Monitored)				
	A (DDU)			

		O₃ (PPM)	PM10 (μg/m³)		
Monitoring Station	Fed*	State	State	Fed	State
	8-hr	1-hr	8-hr	24-hr	24-hr
2015	7%	7%	14%	0%	5%
2014	11%	5%	18%	0%	13%
2013	10%	5%	17%	0%	18%
Source: SCAQMD 2013-2015					
* 0.075 ppm					

3.5 Sensitive Receptors

Some populations are more susceptible to the effects of air pollution than the population at large; these populations are defined as sensitive receptors. Sensitive receptors include children, the elderly, the sick, and the athletic. Land uses associated with sensitive receptors include residences, schools, playgrounds, childcare centers, athletic facilities, long-term health care facilities, rehabilitation centers, convalescent centers, and retirement homes. The proposed facility is located in an area constituting a mix of retail uses, with some residential dwelling units sprinkled in as well. The nearest residential structure appears to be about 275 feet west of the project boundary.

3.6 Local Transportation

The proposed project is located on Sunnymead Boulevard, south of SR-60 and west of Heacock Street. Regional access to the car wash is provided by SR-60, with a freeway interchange occurring immediately north of the project site. Both Sunnymead Boulevard and Heacock Street have at least two lanes in each direction and are designated as Arterials in the City of Moreno Valley Traffic/Circulation Section.⁹

3.7 Odors

According to the CEQA Air Quality Handbook, land uses associated with odor complaints include agricultural operations, wastewater treatment plants, landfills, and certain industrial operations (such as manufacturing uses that produce chemicals, paper, etc.). The proposed car wash and vacuum station, in turn, do not produce odors that could affect a substantial number of people.

3.8 Climate Change

3.8.1 Defining Climate Change

Climate change is the distinct change in measures of climate for a long period of time. Climate change can result from natural processes and from human activities. Natural changes in the climate can be caused by indirect processes such as changes in the Earth's orbit around the Sun or direct changes within the climate system itself (i.e. changes in ocean circulation). Human activities can affect the atmosphere through emissions of gases and changes to the planet's surface. Emissions affect the atmosphere directly by changing its chemical composition, while changes to the land surface indirectly affects the atmosphere by changing the way the Earth absorbs gases from the atmosphere. The term *climate change* is preferred over the term *global warming* because *climate change* conveys the fact that other changes can occur beyond just average increase in temperatures near the Earth's surface. Elements that indicate that climate change is occurring on Earth include:

- Rising of global surface temperatures by 1.3° Fahrenheit (F) over the last 100 years
- Changes in precipitation patterns
- Melting ice in the Arctic
- Melting glaciers throughout the world
- Rising ocean temperatures
- Acidification of oceans
- Range shifts in plant and animal species

Climate change is intimately tied to the Earth's greenhouse effect. The greenhouse effect is a natural occurrence that helps regulate the temperature of the planet. The majority of radiation from the Sun hits the Earth's surface and warms it. The surface in turn radiates heat back towards the atmosphere, known as infrared radiation. Gases and clouds in the atmosphere trap and prevent some of this heat from escaping back into space and re-radiate it in all directions. This process is essential to supporting life on Earth because it keeps the planet approximately 60° F warmer than without it. Emissions from human activities since the beginning of the industrial revolution (approximately 150 years) are adding to the natural greenhouse effect

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by increasing the gases in the atmosphere that trap heat, thereby contributing to an average increase in the Earth's temperature. Human activities that enhance the greenhouse effect are detailed below.

Greenhouse Gases

The greenhouse effect is caused by a variety of *greenhouse gases*. Greenhouse gases (GHGs) occur naturally and from human activities. Greenhouse gases produced by human activities include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). Since the year 1750, it is estimated that the concentrations of carbon dioxide, methane, and nitrous oxide in the atmosphere have increased over 36 percent, 148 percent, and 18 percent, respectively, primarily due to human activity. The primary GHGs are discussed below.¹⁰

Carbon Dioxide. CO_2 is emitted and removed from the atmosphere naturally. Animal and plant respiration involves the release of carbon dioxide from animals and its absorption by plants in a continuous cycle. The ocean-atmosphere exchange results in the absorption and release of CO_2 at the sea surface. Carbon dioxide is also released from plants during wildfires. Volcanic eruptions release a small amount of CO_2 from the Earth's crust.

Human activities that affect carbon dioxide in the atmosphere include burning of fossil fuels, industrial processes, and product uses. Combustion of fossil fuels is the largest source of carbon dioxide emissions in the United States, accounting for approximately 85 percent of all equivalent emissions. Because of the fossil fuels used, the largest of these sources is electricity generation and transportation. When fossil fuels are burned, the carbon stored in them is released into the atmosphere entirely as CO₂. Emissions from onsite industrial activities also emit carbon dioxide such as cement, metal, and chemical production and use of petroleum produced in plastics, solvents, and lubricants.

Methane. Methane (CH₄) is emitted from human activities and natural sources. Natural sources of methane include wetlands, gas hydrates, permafrost, termites, oceans, freshwater bodies, soils, and wildfires. Human activities that cause methane releases include fossil fuel production, animal digestive processes from farms, manure management, and waste management. It is estimated that 50 percent of global methane emissions are generated from human activities. Wetlands are the primary producers of methane in the world because the habitat is conducive to bacteria that produce methane during decomposition of organic material. Methane is produced from landfills as solid waste decomposes. Methane is a primary component of natural gas and is emitted during its production, processing, storage, transmission, distribution, and use. Decomposition of organic material in manure stocks or in liquid manure management systems also releases methane. Releases from animal digestive processes at agricultural operations are the primary source of human-related methane emissions.

Nitrous Oxide. Anthropogenic (human) sources of nitrous oxide include agricultural soil management, animal manure management, sewage treatment, combustion of fossil fuels, and production of certain acids. N_2O is produced naturally in soil and water, especially in wet, tropical forests. The primary human-related source of N_2O is agricultural soil management due to use of synthetic nitrogen fertilizers and other techniques to boost nitrogen in soils. Combustion of fossil fuels (mobile and stationary) is the second leading source of nitrous oxide, although parts of the world where catalytic converters are used (such as California) have significantly lower levels than those areas that do not.

High Global Warming Potential Gases. High global warming potential (GWP) gases (or fluorinated gases) are entirely manmade and are mainly used in industrial processes. HFCs, PFCs, and SF₆ are high GWP gases. These types of gases are used in aluminum production, semiconductor manufacturing, electric power transmission, magnesium production and processing, and in the production of hydrochlorofuorocarbon-22 (HCFC-22). High GWP gases are also used as substitutes for ozone-depleting gases like chlorofluorocarbons (CFCs) and halons. Use of high GWP gases as substitutes for ozone-depleting substances is the primary use of these gases in the United States.

Water Vapor. It should be noted that water vapor is also a significant GHG in the atmosphere; however, concentration of water vapor in the air is primarily dependent on air temperature and cannot be influenced by humans.

GHGs behave differently in the atmosphere and contribute to climate change in different ways. Some gases have more potential to reflect infrared heat back towards the earth while some persist in the atmosphere longer than others. To equalize the contribution of GHGs to climate change, the Intergovernmental Panel on Climate Change (IPCC) devised a weighted

metric to compare all greenhouse gases to carbon dioxide.¹¹ The weighting depends on the lifetime of the gas in the atmosphere and its radiative efficiency. As an example, over a time horizon of 100-years, emissions of nitrous oxide will contribute to climate change 298 times more than the same amount of emissions of carbon dioxide while emissions of HFC-23 would contribute 14,800 times more than the same amount of carbon dioxide. These differences define a gas's GWP. Table 5 (Global Warming Potential of Greenhouse Gases) identifies the lifetime and GWP of select GHGs. The lifetime of the GHG represents how many years the GHG will persist in the atmosphere. The GWP of the GHG represents the GHG's relative potential to induce climate change as compared to carbon dioxide.

Carbon Sequestration

Carbon sequestration is the process by which plants absorb CO_2 from the atmosphere and store it in biomass like leaves and grasses. Agricultural lands, forests, and grasslands can all sequester carbon dioxide, or emit it. The key is to determine if the land use is emitting carbon dioxide faster than it is absorbing it. Young, fast-growing trees are particularly good at absorbing more than they release and are known as a "sink". Agricultural resources often end up being sources of carbon release because of soil management practices. Deforestation contributes to carbon dioxide emissions by removing trees, or carbon sinks, that would otherwise absorb CO_2 . Forests are a crucial part of sequestration in some parts of the world, but not much in the United States. Another form of sequestration is geologic sequestration. This is a manmade process that results in the collection and transport of CO_2 from industrial emitters (i.e. power plants) and injecting it into underground reservoirs.

Global Warming Potential (GWP) of Greenhouse Ga	ases (GHG)
GHG	Lifetime (yrs)	GWP
Carbon Dioxide	50-200	1
Methane	12	25
Nitrous Oxide	114	298
HFC-23	270	14,800
HFC-134a	14	1,430
HFC-152a	1.4	124
PFC-14	50,000	7,390
PFC-116	10,000	12,200
Sulfur Hexafluoride	3,200	22,800
Source: IPCC 2007		

	Table	9 5
Global Warming Potential (GWP) of Greenhouse Gases (GHG)

3.8.2 Climate Change and California

Specific, anticipated impacts to California have been identified in the 2009 California Climate Adaptation Strategy prepared by the California Natural Resources Agency (CNRA) through extensive modeling efforts.¹² General climate changes in California indicate that:

- California is likely to get hotter and drier as climate change occurs with a reduction in winter snow, particularly in the Sierra Nevadas
- Some reduction in precipitation is likely by the middle of the century
- Sea-levels will rise up to an estimated 55 inches
- Extreme events such as heat waves, wildfires, droughts, and floods will increase
- Ecological shifts of habitat and animals are already occurring and will continue to occur

It should be noted that changes are based on the results of several models prepared under different climatic scenarios; therefore, discrepancies occur between the projections. The potential impacts of global climate change in California are detailed below.

Public Health and Welfare

Concerns related to public health and climate change include higher rates of mortality and morbidity, change in prevalence and spread of disease vectors, decreases in food quality and security, reduced water availability, and increased exposure to pesticides. These concerns are all generally related to increase in ambient outdoor air temperature, particularly in summer.

Higher rates of mortality and morbidity could arise from more frequent heat waves at greater intensities. Health impacts associated with extreme heat events include heat stroke, heat exhaustion, and exacerbation of medical conditions such as cardiovascular and respiratory diseases, diabetes, nervous system disorders, emphysema, and epilepsy. Climate change would result in degradation of air quality promoting the formation of ground-level pollutants, particularly ozone. Degradation of air quality would increase the severity of health impacts from criteria and other air pollutants discussed in Section 4.3 (Air Quality). Temperature increases and increases in carbon dioxide are also expected to increase plant production of pollens, spores, and fungus. Pollens and spores could induce or aggravate allergic rhinitis, asthma, and obstructive pulmonary diseases.

Precipitation projections suggest that California will become drier over the next century due to reduced precipitation and increased evaporation from higher temperatures. These conditions could result in increased occurrences of drought. Surface water reductions will increase the need to pump groundwater, reducing supplies and increasing the potential for land subsidence.

Precipitation changes are also suspected to impact the Sierra snowpack (see *Water Management* herein). Earlier snow melts could coincide with the rainy season and could result in failure of the flood control devices in that region. Flooding can cause property damage and loss of life for those affected. Increased wildfires are also of concern as the State *dries* over time. Wildfires can also cause property damage, loss of life, and injuries to citizens and emergency response services.

Sea-level rises would also threaten human health and welfare. Flood risks will be increased in coastal areas due to strengthened storm surges and greater tidal damage that could result in injury and loss of property and life. Gradual rising of the sea will permanently inundate many coastal areas in the state.

Other concerns related to public health are changes in the range, incidence, and spread of infectious, water-borne, and foodborne diseases. Changes in humidity levels, distribution of surface water, and precipitation changes are all likely to shift or increase the preferred range of disease vectors (i.e. mosquitoes). This could expose more people and animals to potential for vector-borne disease.

Biodiversity and Habitat

Changes in temperature will change the livable ranges of plants and animals throughout the state and cause considerable stress on these species. Species will shift their range if appropriate habitat is available and accessible if they cannot adapt to their new climate. If they do not adapt or shift, they face local extirpation or extinction. As the climate changes, community compositions and interactions will be interrupted and changed. These have substantial implications on the ecosystems in the state. Extreme events will lead to tremendous stress and displacement on affected species. This could make it easier for invasive species to enter new areas, due to their ability to more easily adapt. Precipitation changes would alter stream flow patterns and affect fish populations during their life cycle. Sea level rises could impact fragile wetland and other coastal habitat.

Water Management

Although disagreement among scientists on long-term precipitation patterns in the State has occurred, it is generally accepted by scientists that rising temperatures will impact California's water supply due to changes in the Sierra Nevada snowpack. Currently, the State's water infrastructure is designed to both gather and convey water from melting snow and to serve as a flood control device. Snowpack melts gradually through spring warming into early summer, releasing an average of approximately 15 million acre-feet of water. The State's concern related to climate change is that due to rising temperatures, snowpack melt will begin earlier in the spring and will coincide with the rainy season. The combination of precipitation and snowmelt would overwhelm the current system, requiring tradeoffs between water storage and flood protection to be made. Reduction in reserves from the Sierra Nevada snowpack is troublesome for California and particularly for Southern California.

Approximately 75-percent of California's available water supply originates in the northern third of the state while 80 percent of demand occurs in the southern two-thirds. There is also concern is that rising temperatures will result in decreasing volumes from the Colorado River basin. Colorado River water is important to Southern California because it supplies water directly to Metropolitan Water District of Southern California. Water from the Colorado River is also used to recharge groundwater basins in the Coachella Valley.

Agriculture

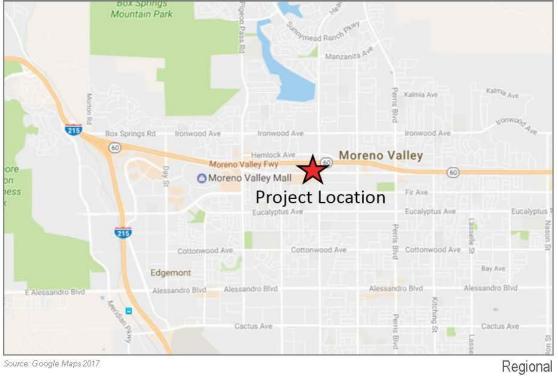
California is the most agriculturally productive state in the US resulting in more than 37 billion dollars in revenue in 2008. California is the nation's leading producer of nearly 80 crops and livestock commodities, supplying more than half of the nation's fruit and vegetables and over 90 percent of the nation's production of almonds, apricots, raisin grapes, olives, pistachios, and walnuts. Production of crops is not limited to the Central Valley but also occurs in Southern California. Strawberries and grapes are grown in San Bernardino and Riverside Counties. Orange County and San Diego County also contribute to strawberry production. Cherries are also grown in Los Angeles and Riverside County. Anticipated impacts to agricultural resources are mixed when compared to the potentially increased temperatures, reduced chill hours, and changes in precipitation associated with climate change. For example, wheat, cotton, maize, sunflower, and rice are anticipated to show declining yields as temperatures rise. Conversely, grapes and almonds would benefit from warming temperatures. Anticipated increases in the number and severity in heat waves would have a negative impact on livestock where heat stress would make livestock more vulnerable to disease, infection and mortality. The projected drying trend and changes in precipitation are a threat to agricultural production in California. Reduced water reliability and changes in weather patterns would impact irrigated farmlands and reduce food security. Furthermore, a drying trend would increase wildfire risk. Overall, agriculture in California is anticipated to suffer due to climate change impacts.

Forestry

Increases in wildfires will substantially impact California's forest resources that are prime targets for wildfires. This can increase public safety risks, property damage, emergency response costs, watershed quality, and habitat fragmentation. Climate change is also predicted to affect the behavior or plant species including seed production, seedling establishment, growth, and vigor due to rising temperatures. Precipitation changes will affect forests due to longer dry periods and moisture deficits and drought conditions that limit seedling and sapling growth. Prolonged drought also weakens trees, making them more susceptible to disease and pest invasion. Furthermore, as trees die due to disease and pest invasion (i.e. the Bark Beetle invasion of the San Bernardino Forest), wildfires can spread more rapidly.

Transportation and Energy Infrastructure

Higher temperatures will require increased cooling, raising energy production demand. Higher temperatures also decrease the efficiency of distributing electricity and could lead to more power outages during peak demand. Climate changes would impact the effectiveness of California's transportation infrastructure as extreme weather events damage, destroy, and impair roadways and railways throughout the state causing governmental costs to increase as well as impacts to human life as accidents increase. Other infrastructure costs and potential impacts to life would increase due to the need to upgrade levees and other flood control devices throughout the state.



Source: Google Maps 2017

Deen Nita Dr ebb 5 Hemlock Ave Hemlock Ave IHOP 0 Hemlock Ave Hem\oct 60 Moreno Valley Fwy 60 WY 61 (60) Postal Ave Postal Ave Back Way All-Size Self Storage Postal Ave Project Site Loco Burrito 🔞 60) Sunnymead Boulevard Big 5 Sporting Goods - Moreno Valley Superior Grocers Office Depot 0 Webster Ave Webster Ave Webs Gamma St 50 Source: Google Maps 2015

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Figure 1 Regional and Vicinity M

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4 Regulatory Framework

The following summarizes Federal, State, and local regulations related to air quality, pollution control, and greenhouse gas emissions.

4.1 Clean Air Act

The Federal Clean Air Act (CAA) defines the Environmental Protection Agency's (EPA) responsibilities for protecting and improving the United States air quality and ozone layer.¹³ Key components of the CAA include reducing ambient concentrations of air pollutants that cause health and aesthetic problems, reducing emission of toxic air pollutants, and stopping production and use of chemicals that destroy the ozone.

Federal clean air laws require areas with unhealthy levels of ozone, inhalable particulate matter, Carbon monoxide, nitrogen dioxide, and sulfur dioxide to develop State Implementation Plans (SIPs); comprehensive documents that identify how an area will attain NAAQS. Deadlines for attainment were established in the 1990 amendments to the CAA based on the severity of an area's air pollution problem. Failure to meet air quality deadlines can result in sanctions against the State or the EPA taking over enforcement of the CAA in the affected area. SIPs are a compilation of new and previously submitted plans, programs, district rules, and State and Federal regulations. The SCAQMD implements the required provisions of an applicable SIP through its AQMPs and updates. Currently, SCAQMD implements the 8-hr Ozone and PM_{2.5} SIP in the 2007 AQMP and the PM₁₀ SIP in the 2003 AQMP. The PM_{2.5} SIP is currently being revised by SCAQMD in response to partial disapproval by the EPA. The 2012 Lead SIP for the Los Angeles County portion of SCAB was adopted by the SCAQMD Board on May 4, 2012 and approved by ARB on May 24, 2012 and forwarded to the EPA for approval as a revision to the California SIP.

4.2 California Clean Air Act

The California Clean Air Act (CCAA) of 1988 was enacted to develop plans and strategies for attaining California Ambient Air Quality Standards (CAAQS). The California Air Resources Board (ARB), which is part of the California Environmental Protection Agency (Cal-EPA), develops statewide air quality regulations, including industry-specific limits on criteria, toxic, and nuisance pollutants. The CCAA is more stringent than Federal law in a number of ways including revised standards for PM₁₀ and ozone and State for visibility reducing particles, sulfates, hydrogen sulfide, and vinyl chloride.

4.3 2016 Air Quality Management Plan

The purpose of an Air Quality Management Plan (AQMP) is to bring an air basin into compliance with federal and state air quality standards and is a multi-tiered document that builds on previously adopted AQMPs.¹⁴ The 2003 AQMP was adopted in August 2003 and demonstrated O₃ and PM₁₀ for the Basin. It also provides the maintenance plans for CO and NO₂, which the Basin has been in attainment for since 1997 and 1992, respectively. The 2007 AQMP for the Basin was approved by the SCAQMD Board of Directors in June 2007. The 2007 AQMP builds on the 2003 AQMP and is designed to address the federal 8-hour ozone and PM_{2.5} air quality standards. The AQMP identifies short- and long-term control measures designed to reduce stationary, area, and mobile source emissions, organized into four primary components:

- 1. District Stationary and Mobile Source Control Measures
- 2. Air Resources Board (ARB) State Strategy
- 3. Supplement to ARB Control Strategy
- 4. SCAG Regional Transportation Strategy and Control Measures

The 2012 AQMP was adopted by the SCAQMD board on December 7, 2012. The 2012 AQMP incorporated the latest scientific and technological information and planning assumptions, including the 2012 Regional Transportation Plan/Sustainable Communities Strategy and updated emission inventory methodologies for various source categories. The 2012 AQMP includes the new and changing federal requirements, implementation of new technology measures, and the continued development of economically sound, flexible compliance approaches.

The SCAQMD board most recently adopted the 2016 AQMP on March 3, 2017, building upon previous versions. The Plan recognizes that the most effective way to reduce air pollution impacts is to reduce emissions from mobile sources. For that reason, the SCAQMD worked closely engaged with the California Air Resources (CARB) and the U.S. EPA to develop new regulations. The Plan includes the integrated strategies and measures needed to meet the National Ambient Air Quality Standards (NAAQS), and demonstrates attainment of the 1-hr and 8-hr ozone NAAQS as well as the latest 24-hr and annual PM2.5 standards.¹⁵

4.4 Air Toxics

State requirements specifically address air toxics issues through Assembly Bill (AB) 1807 (known as the Tanner Bill) that established the State air toxics program and the Air Toxics Hot Spots Information and Assessment Act (AB 2588). The air quality regulations developed from these bills have been modified recently to incorporate the Federal regulations associated with the Federal Clean Air Act Amendments of 1990. The Air Toxics Hot Spots Information and Assessment Act (Hot Spots Act) was enacted in September 1987. Under this bill, stationary sources of emissions are required to report the types and quantities of certain substances that their facilities routinely release into the air.

The SCAQMD is required to prepare an annual report on the status and forecast of air toxic *hotspots* pursuant to Section 44363 of the California Health and Safety Code. SCAQMD monitors facilities that are not exempt from the fee and reporting requirements of AB 2588.

Some facilities are covered under *umbrella* permits that address industry-wide categories. SCAQMD has issued general permits for the following seven activities:

- Retail gasoline dispensing
- Perchloroethylene dry cleaning
- Auto body shops
- Fiberglass molding
- Printing
- Metal plating
- Wood stripping and finishing

Emissions inventories and risk assessment guidelines have been prepared for the seven industry-wide categories. Approximately 1,400 auto body shops, 3,200 gasoline stations, and 1,400 perchloroethylene dry cleaners within the District are covered under these umbrella permits.

Depending on the severity of the facilities' toxic air contaminant (TAC) releases, SCAQMD requires either public notification of toxic hot spots or preparation of a risk reduction plan, as follows:

	Cancer Risk (per million)	Acute Risk	Chronic Risk
Action Risk Level	>= 25	>= 3.0	>= 3.0
Public Notification Level	>= 10	>= 1.0	>= 1.0
Exempt	<1	<0.1	<0.1

The proposed general gasoline dispensing facility use does not include use of stationary emergency or prime compression ignition internal combustion engines, portable diesel engines, or other equipment subject to AB 2588.

4.5 California Code of Regulations

In December 2008, the California Air Resources Board (ARB) approved the *Truck and Bus Regulations* as part of their rulemaking authority and adopted in Title 13 (Motor Vehicles) of the California Code of Regulations (CCR).¹⁶These regulations are applicable to all diesel-fueled trucks and buses with a gross vehicle weight rating (GVWR) of 14,000 pounds or more

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(Class 4 or greater) that are privately or federally owned and for privately and publicly owned school buses.¹⁷ These regulations are designed to reduce emissions of particulate matter and oxides of nitrogen from existing diesel vehicles operating in California. Compliance scheduling is phased for light and heavy vehicle depending on the age of the vehicle engine. Full compliance across vehicle ratings is set in 2023. Regulations affect the following areas:

- Auxiliary Power Units
- Port and Rail Yard Trucks
- Emissions Control Label Inspection
- Greenhouse Gas Emissions Reductions
- Heavy-Duty Diesel Vehicle Inspection
- Idling Reduction
- Periodic Smoke Inspection
- Public and Utility Agencies
- Public Transit Agencies
- School Bus Fleets
- Solid Waste Collection Vehicles
- Transport Refrigeration Units

Starting in 2015, lighter trucks (between 14,000 and 26,000 GVWR) will be required to replace the vehicle and/or engine if the engine manufacture date is from 1995 or earlier. Newer engines will be required to be replaced on a graduated scale until 2023 when all engines will be required to meet model year 2010 emissions or equivalent. Heavier trucks (greater than 26,000 GVWR) have options for meeting the regulation requirements through 2023. Vehicles with engine years earlier than 1994 and 1995 will be required to be replaced in 2015 and 2016, respectively. Engines between 1996 and 2006 have the option to install a particulate filter before being required to replace the engine towards the compliance deadline. Later engines are considered compliant 2023 when they demonstrate 2010 emissions levels or equivalent.

Idling restrictions were established in 2008 and apply to vehicles greater than 10,000 GVWR (Class 3 or greater). These restrictions limit idling to five minutes or less before manual or automatic shutdown must be initiated. Engine models manufactured in 2008 and beyond are required to be equipped with a non-programmable engine shutdown mechanism that automatically shuts off the engine after five minutes of idling.

4.6 SCAQMD Rule Book

In order to control air pollution in the Basin, SCAQMD adopts rules that establish permissible air pollutant emissions and governs a variety of businesses, processes, operations, and products to implement the AQMP and the various federal and state air quality requirements. SCAQMD does not adopt rules for mobile sources; those are established by ARB or the United States Environmental Protection Agency (EPA). Rules that will be applicable during construction of the proposed project include Rule 403 (Fugitive Dust) and Rule 1113 (Architectural Coatings). Rule 403 prohibits emissions of fugitive dust from any grading activity, storage pile, or other disturbed surface area if it crosses the project property line or if emissions caused by vehicle movement cause substantial impairment of visibility (defined as exceeding 20 percent opacity in the air). Rule 403 requires the implementation of Best Available Control Measures (BACM) and includes additional provisions for projects disturbing more than five acres and those disturbing more than fifty acres. Rule 1113 establishes maximum concentrations of VOCs in paints and other applications and establishes the thresholds for low-VOC coatings.

4.7 Executive Order S-3-05

Executive Order S-3-05 was issued by California Governor Arnold Schwarzenegger and established targets for the reduction of greenhouse gas emission at the milestone years of 2010, 2020, and 2050. Statewide GHG emissions must be reduced to 1990 levels by year 2020 and by 80 percent beyond that by year 2050. The Order requires the Secretary of the California Environmental Protection Agency (CalEPA) to coordinate with other State departments to identify strategies and reduction programs to meet the identified targets. A Climate Action Team (CAT) was created and is headed by the Secretary of CalEPA

who reports on the progress of the reduction strategies. The latest CAT *Biennial Report to the Governor and Legislature* was completed in April 2010.¹⁸ CAT also works in 11 subgroups to support development and implementation of the Scoping Plan (see *California Global Warming Solutions Act* herein).

4.8 California Global Warming Solutions Act

The California State Legislature adopted the California Global Warming Solutions Act in 2006 (AB32). AB32 establishes the caps on statewide greenhouse gas emissions proclaimed in Executive Order S-3-05 and establishes a regulatory timeline to meet the reduction targets. The timeline is as follows:

January 1, 2009	Adopt Scoping Plan
January 1, 2010	Early action measures take effect
January 1, 2011	Adopt GHG reduction measures
January 1, 2012	Reduction measures take effect
December 31, 2020	Deadline for 2020 reduction target

As part of AB32, CARB had to determine what 1990 GHG emissions levels were and projected a *business-as-usual* (BAU) estimate for 2020 to determine the amount of GHG emissions that will need to be reduced. BAU is a term used to define emissions levels without considering reductions from future or existing programs or technologies. 1990 emissions are estimated at 427 million metric tons of carbon dioxide equivalent (MMTCO2E) while 2020 emissions (after accounting for the economic downturn in 2008 and implementation of Pavley 1 vehicle emissions reductions and the State Renewable Portfolio Standard identified in Air Resources Board Scoping Plan below) are estimated at 507 MMTCO2E; therefore, California GHG emissions must be reduced 80 MMTCO2E (507 - 427 = 80) by 2020, a reduction of approximately 15 percent below BAU. Emissions are required to be reduced an additional 80 percent below 1990 levels by 2050.

4.9 Sustainable Communities and Climate Protection Act

In January 2009, California Senate Bill (SB) 375 went into effect known as the Sustainable Communities and Climate Protection Act.¹⁹ The objective of SB375 is to better integrate regional planning of transportation, land use, and housing to reduce sprawl and ultimately reduce greenhouse gas emissions and other air pollutants. SB375 tasks ARB to set greenhouse gas reduction targets for each of California's 18 regional Metropolitan Planning Organizations (MPOs). Each MPO is required to prepare a Sustainable Communities Strategy (SCS) as part of their Regional Transportation Plan (RTP). The SCS is a growth strategy in combination with transportation policies that will show how the MPO will meet its GHG reduction target. If the SCS cannot meet the reduction goal, an Alternative Planning Strategy (APS) may be adopted that meets the goal through alternative development, infrastructure, and transportation measures or policies.

In the Southern California Association of Governments (SCAG) region (in which the project is located), sub-regions can also elect to prepare their own SCS or APS. In August 2010, ARB released the proposed GHG reduction targets for the MPOs to be adopted in September 2010. The proposed reduction targets for the SCAG region were 8-percent by year 2020 and 13-percent by year 2035. The 8-percent year 2020 target was adopted in September 2010 and tentatively adopted the year 2035 until February 2011 to provide additional time for SCAG, ARB, and other stakeholders to account for additional resources (such as state transportation funds) needed to achieve the proposed targets. In February 2011, the SCAG President affirmed the year 2035 reduction target and SCAG Staff updated ARB on additional funding opportunities.

4.10 Air Resources Board Scoping Plan

The ARB Scoping Plan is the comprehensive plan to reach the GHG reduction targets stipulated in AB32. The key elements of the plan are to expand and strengthen energy efficiency programs, achieve a statewide renewable energy mix of 33 percent,

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develop a cap-and-trade program with other partners in the Western Climate Initiative (includes seven states in the United States and four territories in Canada), establish transportation-related targets, and establish fees.²⁰ The Scoping Plan measures are identified in Table 6 (Scoping Plan Measures). Note that the current early discrete actions are incorporated into these measures. ARB estimates that implementation of these measures will reduce GHG emissions in the state by 174 MMTCO2E by 2020; therefore, implementation of the Scoping Plan will meet the 2020 reduction target. In a report prepared on September 23, 2010, ARB indicates that 40 percent of the reduction measures identified in the Scoping Plan have been secured.²¹ ARB held the hearing for the cap-and-trade program rulemaking on December 16, 2010. The cap-and-trade program began January 1, 2012 after ARB completed a series of activities that dealt with the registration process, compliance cycle, and tracking system.²² ARB is currently working on the low carbon fuel standard where public hearings and workshops are currently being conducted. In August 2011, the Scoping plan was reapproved by the ARB Board with the program's environmental documentation.

The ARB prepared the First Update to the Scoping Plan (Update) with a draft made available for public review on February 10, 2014. The Update to the Scoping Plan built upon the 2008 Scoping Plan with new strategies and recommendations. This Update identified opportunities to leverage existing and new funds to further drive GHG emission reductions through strategic planning and targeted low carbon investments. The Update defined ARB's climate change priorities for the next five years and set the groundwork to reach post-2020 goals set forth in Executive Orders S-3-05 and B-16-2012. It highlighted California's progress toward meeting the 2020 GHG emission reduction goals defined in the 2008 Scoping Plan. It also evaluated how to align the State's long-term GHG reduction strategies with other State policy priorities for water, waste, natural resources, clean energy, transportation, and land use. After considering public comments and Board direction, the final First Update, summary of comments received on the draft EA, and ARB's responses to those comments were released on May 15, 2014. The First Update to the Scoping Plan was approved by the Board on May 22, 2014.

Executive Order B-30-15 was signed by Governor Jerry Brown on April 29, 2015 that included a declaration for the state Scoping Plan to be updated to include a year 2030 threshold established at 40 percent below 1990 levels as an interim goal between the current 2020 and 2050 requirements. In 2016, the Legislature codified the 2030 reduction target and ARB updated the Scoping Plan to recognize and identify strategies to meet the new target.²³ The draft 2017 Climate Change Scoping Plan Update is currently available for public review and is scheduled for final approval in June 2017. The 2017 Scoping Plan update identifies an increased need for coordination among state, regional, and local governments to realize the potential for GHG emissions reductions that can be gained from local land use decisions. The update notes that emissions reductions targets set by more than one hundred local jurisdictions in the state could realize emissions reductions up to 45 MMTCO2E by 2020 and 83 MMTCO2E by 2050. The 2017 Scoping Plan update includes a recommended plan-level efficiency threshold of six metric tons or less per capita by 2030 and no more than two metric tons by 2050.

4.11 Water Conservation in Landscaping Act

Section 65591 of the Government Code requires all local jurisdictions to adopt a water efficient landscape ordinance. The ordinance is to address water conservation through appropriate use and grouping of plants based on environmental conditions, water budgeting to maximize irrigation efficiency, storm water retention, and automatic irrigation systems. Failure to adopt a water efficiency ordinance requires a local jurisdiction to enforce the provisions of the state's model water efficiency ordinance. In 2009, the Department of Water Resources (DWR) updated the Model Water Efficient Landscape Ordinance pursuant to amendments to the 1991 Act. These amendments and the new model ordinance went into effect on January 1, 2010. The amended Act is applicable to any new commercial, multi-family, industrial, or tract home project containing 2,500 square feet (SF) or more of landscaping. Individual landscape projects of 5,000 SF or more on single-family properties will also be subject to the Act. All landscape plans are required to include calculations verifying conformance with the maximum applied water allowance and must be prepared and stamped by a licensed landscape architect.

4.12 California Green Building Standards

New California Green Building Standards Code (CALGREEN) went into effect on January 1, 2011.²⁴ The purpose of the new addition to the California Building Code (CBC) is to improve public health, safety, and general welfare by enhancing the design

and construction of buildings using concepts to reduce negative impacts or produce positive impacts on the environment. The CALGREEN regulations cover planning and design, energy efficiency, water efficiency and conservation, material conservation and resources efficiency, and environmental quality. Many of the new regulations have the effect of reducing greenhouse gas emissions from the operation of new buildings. Table 7 (CALGREEN Requirements) summarizes the previous requirements of the CBC and the new requirements of CALGREEN that went into effect in January 2011. Minor technical revisions and additional requirements went into effect in July 2012. The Code was further updated in 2013, effective January 1, 2014 through 2016.

Measure	Scoping Plan Measures Description
T-1	Pavely I and II – Light Duty Vehicle Greenhouse Gas Standards
T-2	Low Carbon Fuel Standard
T-3	Regional Transportation-Related Greenhouse Gas Targets
T-4	Vehicle Efficiency Measures
T-5	Ship Electrification at Ports
T-6	Good Movement Efficiency Measures
T-7	Heavy-Duty Vehicle Aerodynamic Efficiency
T-8	Medium and Heavy-Duty Vehicle Hybridization
T-9	High Speed Rail
E-1	Energy Efficiency (Electricity Demand Reduction)
E-2	Increase Combined Heat and Power Use
E-3	Renewable Portfolio Standard
E-4	Million Solar Roofs
CR-1	Energy Efficiency (Natural Gas Demand Reduction)
CR-2	Solar Water Heating
GB-1	Green Buildings
W-1	Water Use Efficiency
W-2	Water Recycling
W-3	Water System Energy Efficiency
W-4	Reuse Urban Runoff
W-5	Increase Renewable Energy Production
W-6	Public Good Charge (Water)
I-1	Energy Efficiency for Large Industrial Sources
I-2	Oil and Gas Extraction GHG Reductions
I-3	Oil and Gas Transmission Leak Reductions
I-4	Refinery Flare Recovery Process Improvements
I-5	Removal of Methane Exemption from Existing Refinery Regulations
RW-1	Landfill Methane Control
RW-2	Increase Landfill Methane Capture Efficiency
RW-3	Recycling and Zero Waste
F-1	Sustainable Forest Target
H-1	Motor Vehicle Air Conditioning
H-2	Non-Utilities and Non-Semiconductor SF ₆ Limits
H-3	Semiconductor Manufacturing PFC Reductions
H-4	Consumer Products High GWP Limits
H-5	High GWP Mobile Source Reductions
H-6	High GWP Stationary Source Reductions
H-7	High GWP Mitigation Fees
A-1	Large Dairy Methane Capture
Source: ARB 2017	20

Table 6 Scoping Plan Measures

	Requirements				
	ltem	Previous	CALGREEN		
4.1	Stormwater Management	Stormwater management required on projects > than one acre	All projects subject to stormwater management.		
	Surface Drainage	Surface water must flow away from building	Drainage patterns must be analyzed		
4.2	Energy Efficiency	California Energy Code	Minimum energy efficiency to be established by California Energy Commissions		
	Indoor Water Use	HCD maximum flush rates; CEC water use standards for appliances and fixtures	Indoor water use must decrease by at least 20 percent (prescriptive or performance based)		
4.3	Multiple Showerheads	Not covered	Multiple showerheads cannot exceed combined flow of the code		
	Irrigation Controllers	Not covered	Irrigation controllers must be weather or soil moisture based controllers		
	Joint Protection	Plumbing and Mechanical Codes	All openings must be sealed with materials that rodents cannot penetrate		
4.4	Construction Waste	Local Ordinances	Establishes minimum 50 percent recycling and waste management plan		
	Operation	Plumbing Code for gray water systems	Educational materials and manuals must be provided to building occupants and owners to ensure proper equipment operation		
	Fireplaces	Local Ordinances	Gas fireplaces must be direct-vent sealed-combustion type; Wood stoves and pellet stoves must meet USEPA Phase II emissions limits		
	Mechanical Equipment	Not covered	All ventilation equipment must be sealed from contamination during construction		
	VOCs	Local Ordinances	Establishes statewide limits on VOC emissions from adhesives, paints, sealants, and other coatings		
4.5	Capillary Break	No prescriptive method of compliance	Establishes minimum requirements for vapor barriers in slab on grade foundations		
	Moisture Content	Current mill moisture levels for wall and floor beams is 15-20 percent	Moisture content must be verified prior to enclosure of wall or floor beams		
	Whole House Fans	Not covered	Requires insulated louvers and closing mechanism when fan is off		
	Bath Exhaust Fans	Not covered	Requires Energy Star compliance and humidistat control		
	HVAC Design	Minimal requirements for heat loss, heat gain, and duct systems	Entire system must be designed in respects to the local climate		
7	Installer Qualifications	HVAC installers need not be trained	HVAC installers must be trained or certified		
	Inspectors	Training only required for structural materials	All inspectors must be trained		
Source: I	HCD 2010				

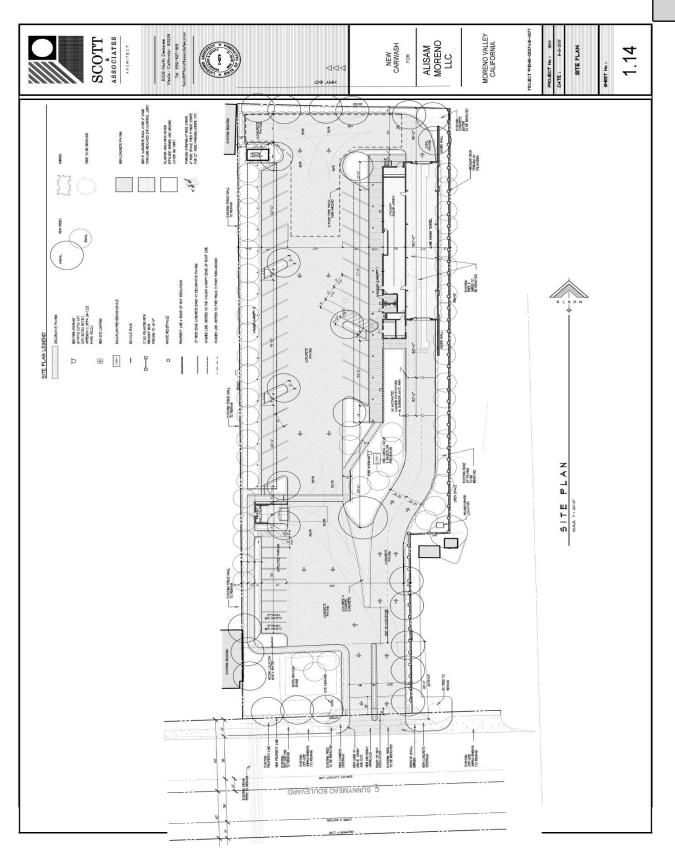
 Table 7

 CALGREEN Requirements

Project Description

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The project includes the development of a new car wash facility on 1.68 acres of vacant land (APN 292-160-023) on Sunnymead Boulevard, south of State Route 60 and west of Heacock Street in the City of Moreno Valley, California. The car wash consists of one automated tunnel and a small associated building. The facility includes two large canopies under which patrons may park to vacuum their vehicles. Thirty-nine total parking spaces will be provided, including two Americans with Disabilities Act (ADA) parking stalls and two clean air stalls. Approximately 15,000 square feet of landscaping will be provided.





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Sunnymead Car Wash City of Mor Packet Pg. 259

Figure 2 Site Pla..

6 Air Quality Impact Analysis

The impact analysis contained herein was prepared utilizing guidance provided in the 1993 SCAQMD California Environmental Quality Act (CEQA) Air Quality Handbook. The thresholds identified in Appendix G of the State CEQA Guidelines, as implemented by the City of Moreno Valley, have been utilized to determine the significance of potential impacts.

6.1 Thresholds of Significance

In accordance with Appendix G of the State CEQA Guidelines and the local implementation procedures of the City of Moreno Valley, the project could result in potentially significant impacts related to air quality if it:

- A. Conflicts with or obstructs implementation of the applicable air quality plan.
- B. Violates any air quality standard or contributes substantially to an existing or projected air quality violation.
- C. Results in a cumulatively considerable net increase of any criteria pollutant that the region is non-attainment under an applicable Federal or State ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors).
- D. Exposes sensitive receptors to substantial pollutant concentrations.
- E. Create objectionable odors affecting a substantial number of people.

To determine if maximum daily criteria pollutant emissions from construction and operation of the proposed car wash facility are significant, the SCAQMD significance thresholds are used. These thresholds are identified in Table 8 (SCAQMD Maximum Daily Emissions Thresholds (Ibs/day)).

SCAQMD Maximum Daily Emissions Thresholds (lbs/day)					
Pollutant	Construction	Operation			
NO _X	100	55			
VOC/ROG	75	55			
PM ₁₀	150	150			
PM _{2.5}	55	55			
SO _X	150	150			
CO	550	550			
Lead	3	3			
Source: SCAQMD 2017					

Table 8	
SCAQMD Maximum Daily Emissions Thresholds (It	os/day)

6.2 AQMP Consistency

A significant impact could occur if the proposed project conflicts with or obstructs the implementation of South Coast Air Basin 2016 Air Quality Management Plan. Conflicts and obstructions that hinder implementation of the AQMP can delay efforts to meet attainment deadlines for criteria pollutants and maintaining existing compliance with applicable air quality standards. Pursuant to the methodology provided in Chapter 12 of the 1993 SCAQMD CEQA Air Quality Handbook, consistency with the South Coast Air Basin 2016 Air Quality Management Plan (AQMP) is affirmed when a project (1) does not increase the frequency or severity of an air quality standards violation or cause a new violation and (2) is consistent with the growth assumptions in the AQMP.²⁶ Consistency review is presented below:

 The project would result in short-term construction and long-term pollutant emissions that are less than the CEQA significance emissions thresholds established by the SCAQMD, as demonstrated in Section 6.3 et seq of this report; therefore, the project could not result in an increase in the frequency or severity of any air quality standards violation and will not cause a new air quality standard violation. 2. The CEQA Air Quality Handbook indicates that consistency with AQMP growth assumptions must be analyzed for new or amended General Plan elements, Specific Plans, and *significant projects*. *Significant projects* include airports, electrical generating facilities, petroleum and gas refineries, designation of oil drilling districts, water ports, solid waste disposal sites, and off-shore drilling facilities; therefore, the proposed project is not defined as *significant*.

6.3 Pollutant Emissions

6.3.1 Construction

Short-term criteria pollutant emissions will occur during site grading, building construction, paving, and architectural coating activities. Emissions will be generated from equipment usage, worker, vendor, and hauling trips, and disturbance of on-site soils (fugitive dust). The California Emissions Estimator Model (CalEEMod) has been utilized to determine if construction of the proposed car wash facility could result in a significant air quality impact. CalEEMod defaults have been used as the assumptions used in the model (see Appendix A for input values). The methodology for calculating emissions is included in the CalEEMod *User Guide,* freely available at http://www.caleemod.com/.

Construction of the project is anticipated to start in 2017. The site currently sits vacant, unpaved, and almost entirely unvegetated. As such, site preparation and demolition were not modeled as a part of construction activities. An estimated 500 cubic yards of soil, however, will be removed during grading activities to make room for underground water storage tanks and the footings of the car wash.

The results of the CalEEMod outputs are summarized in Table 9 (Car Wash Facility Maximum Daily Construction Emissions). The model indicates that construction emissions will not be excessive for any criteria pollutant.

Car Wash Facility Maximum Daily Construction Emissions (lbs/day)							
	ROG	NOx	CO	SO ₂	PM ₁₀	PM _{2.5}	
Maximum	8.22	23.68	16.47	0.03	6.18	3.46	
Threshold	75	100	550	150	150	55	
Substantial?	No	No	No	No	No	No	
Source: MIG 2017				•			

Table 9 Car Wash Facility Maximum Daily Construction Emissions (Ibs/dav)

6.3.2 Operational Sources

Operation of the proposed car wash facility will result in long-term criteria air pollutant emissions. Long-term emissions are categorized as area source emissions, energy demand emissions, and operational emissions. Operational emissions will result from vehicle sources associated with daily trips to and from the proposed car wash. Area source emissions are the combination of many small emission sources that include use of outdoor landscape maintenance equipment, use of consumer products, and periodic repainting of the small structure. Energy demand emissions result from use of electricity and natural gas.

The car wash consists of one automated tunnel with five underground storage tanks to reclaim and recycle water. Water use for the car wash was estimated at a 20 gallons per vehicle – though each individual vehicle washed will require more water, Tri Millenium Properties estimates that the car wash will recycle up to 90% of all water used. As such, 20 gallons per vehicle is likely an overestimation for total water usage. Number of vehicles washed was estimated at 450 daily, based on a Trip Generation Manual from the City of San Diego for similar facilities.²⁷ San Diego exhibits similar characteristics to the rest of Southern California, making this trip rate applicable in Moreno Valley as well. With a resulting total of 164,250 vehicles washed annually, total water demand is estimated at 3,285,000 gallons per year. It has also been assumed that approximately 4.2312 kilowatt hours (kWh) of electricity is consumed per vehicle washed. Because data is not widely available on energy

consumption by the type of vacuums used at these types of facilities, a generous buffer has been applied to project energy use to account for this, as well as the minimal energy that would be used by the small structure for employees.

The California Emissions Estimator Model (CalEEMod) was utilized to estimate mobile source emissions. As mentioned above, trip generation is based the "full service car wash" entry from the City of San Diego's Trip Generation Manual. CalEEMod also includes default outdoor water demand for landscape irrigation. Default inputs for all operational source were used for the project. Maximum daily operational emissions as estimated by CalEEMod are summarized in Table 10 (Operational Daily Emissions). Operational emissions generated by operation of the proposed project will not exceed the thresholds established by SCAQMD.

Table 10 Operational Daily Emissions (Ibs/day)							
Source ROG NOX CO SO2 PM10 PM2.5							
Summer							
Area Sources	0.17	0.00	0.01	0.00	0.00	0.00	
Energy Demand	0.00	0.00	0.00	0.00	0.00	0.00	
Mobile Sources	0.95	4.53	12.54	0.04	3.08	0.85	
Summer Total	1.13	4.53	12.54	0.04	3.08	0.85	
Winter							
Area Sources	0.17	0.00	0.01	0.00	0.00	0.00	
Energy Demand	0.00	0.00	0.00	0.00	0.00	0.00	
Mobile Sources	0.92	4.65	11.85	0.04	3.08	0.85	
Winter Total	1.09	4.65	11.86	0.04	3.08	0.85	
SCAQMD Daily Threshold	55	55	550	150	150	55	
Potentially Significant?	No	No	No	No	No	No	

6.4 Sensitive Receptors

6.4.1 Toxic Air Contaminants

Operationally, the proposed project would not emit point-source toxic air contaminants that could expose any receptor to undue risk. Car washes are not considered major sources of toxic emission by ARB.

6.4.2 Localized Significance Thresholds

As part of SCAQMD's environmental justice program, attention has recently been focusing more on the localized effects of air quality.²⁸ Although the region may be in attainment for a particular criteria pollutant, localized emissions from construction activities coupled with ambient pollutant levels can cause localized increases in criteria pollutant that exceed national and/or State air quality standards.

Construction-related criteria pollutant emissions and potentially significant localized impacts were evaluated pursuant to the SCAQMD Final Localized Significance Thresholds Methodology. This methodology provides screening tables for one- through five-acre project scenarios, depending on the amount of site disturbance during a day. Maximum daily oxides of nitrogen (NO_x), carbon monoxide (CO), and particulate matter (PM₁₀ and PM_{2.5}) emissions will occur during construction of the project, grading of the project site, and paving of facility parking lots. Table 11 (Car Wash Localized Significance Threshold Analysis) summarizes on-site emissions as compared to the local thresholds established for Source Receptor Area (SRA) 24 (Perris Valley). Linear regression was used to determine appropriate thresholds for a 1.68-acre project, using the data from one and two acre mass rate LST look-up tables. A 25 meter receptor distance, the most restrictive, was used to reflect the surrounding urbanized context of the project site. Note that particulate matter emissions account for daily watering required by SCAQMD

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Rule 403 (three times per day for a 61 percent reduction in fugitive dust). Emissions from construction activities will not exceed any localized threshold.

Car Wash Localized Significance Threshold Analysis (lbs/day)						
Phase	CO	NOx	PM ₁₀	PM _{2.5}		
Grading	7.03	18.29	5.80	3.33		
Building Construction (2017)	14.36	19.24	1.23	1.19		
Paving On Site	8.99	10.45	0.61	0.56		
Architectural Coating	1.85	2.01	0.15	0.15		
Threshold	793.08	153.36	6.04	3.68		
Potentially Substantial?	No	No	No	No		
Source: MIG. 2017.						

Table 11 Car Wash Localized Significance Threshold Analysis (Ibs/day)

6.4.3 Carbon Monoxide Hotspots

A carbon monoxide (CO) hotspot is an area of localized CO pollution that is caused by severe vehicle congestion on major roadways, typically near intersections. CO hotspots have the potential to violate state and federal CO standards at intersections, even if the broader Basin is in attainment for federal and state levels. In general, SCAQMD and the California Department of Transportation *Project-Level Carbon Monoxide Protocol* (CO Protocol) recommend analysis of CO hotspots when a project increases traffic volumes at an intersection by more than two percent that is operating at LOS D or worse.²⁶ According to Section 3.1.3 of the Protocol, the project is not regionally significant and therefore is only required to examine local impacts (see Appendix E). Regionally significant projects are defined in 40 CFR Section 93.101 and through extension in 40 CFR Section 93.105(c)(1)(ii), as follows:

Regionally significant project means a transportation project (other than an exempt project) that is on a facility which serves regional transportation needs (such as access to and from the area outside of the region, major activity centers in the region, major planned developments such as new retail malls, sports complexes, etc., or transportation terminals as well as most terminals themselves) and would normally be included in the modeling of a metropolitan area's transportation network, including at a minimum all principal arterial highways and all fixed guideway transit facilities that offer an alternative to regional highway travel.

Localized impacts are analyzed in Protocol Section 4. The local analysis procedures in Section 4.7.1 indicate that a project has the potential to worsen air quality (as defined for Protocol purposes only) if it will result in an increase in the number of vehicles operating in *cold start* mode by more than two percent, increases traffic volumes by five percent, or worsens traffic flow by reducing speeds by three miles per hour or more. The proposed project will generate approximately 450 average daily trips. The local analysis procedures then direct to Protocol Sections 4.7.3 and 4.7.4. These sections indicate that if the project involves signalized intersections performing at Level of Service (LOS) E or worse, then the project will be subject to a screening analysis.

The nearest intersection to the project site is the intersection of Heacock Street and Sunnymead Boulevard. This intersection serves traffic coming from and going to SR-60 and is anecdotally quite busy. Though no traffic study was performed for the project, it can be safely assumed this intersection is performing at LOS E or worse. As such, pursuant to Section 4.7.3, the project could be subject to a screening analysis. Section 4.4 references Appendix A of the Protocol for screening purposes; however, because of the age of the assumptions used in the screening procedures, they are no longer acceptable. The Sacramento Metropolitan Air Quality Management District (SAQMD) developed a screening threshold that states that any project involving an intersection experiencing 31,600 vehicles per hour or more will require detailed analysis.³⁰ According to the City of Moreno Valley's traffic counts, the intersection of Heacock Street and Sunnymead Boulevard does not experience this level of traffic; therefore, the project passes the screening analysis and impacts are deemed acceptable. Based on the local analysis procedures, the project is satisfactory pursuant to the Protocol and will not result in a CO hotspot.³¹

6.5 Odors

According to the CEQA Air Quality Handbook, land uses associated with odor complaints include agricultural operations, wastewater treatment plants, landfills, and certain industrial operations (such as manufacturing uses that produce chemicals, paper, etc.). The proposed car wash and vacuum stations do not produce odors that could affect a substantial number of people.

6.6 Cumulative Impacts

6.6.1 Cumulative Construction Impacts

Cumulative short-term, construction-related emissions from the project will not contribute considerably to any aggregated local or regional air quality standard because construction emission from the project will be less than significant as projected and analyzed in this report, thus, the contribution to air quality impacts will not be cumulatively considerable. Additionally, other concurrent construction projects in the region will be required to have implemented standard air quality regulations and mitigation pursuant to State CEQA requirements, as will be implemented during construction of the proposed car wash facility.

6.6.2 Cumulative Operational Impacts

The SCAQMD CEQA Air Quality Handbook identifies methodologies for analyzing long-term cumulative air quality impacts for criteria pollutants for which the Basin is nonattainment. These methodologies identify three performance standards that can be used to determine if long-term emissions will result in cumulative impacts. Essentially, these methodologies assess growth associated with a land use project and are evaluated for consistency with regional projections. These methodologies are outdated, and are no longer recommended by SCAQMD. SCAQMD allows a project to be analyzed using the projection method such that consistency with the AQMP will indicate that a project will not contribute considerably to cumulative air quality impacts. As discussed in AQMP Consistency, the proposed project is consistent with growth assumptions in the AQMP, and would not exceed any applicable SCAQMD thresholds for short- and long-term emissions. Therefore, the proposed project will not contribute to any potential cumulative air quality impacts.

Air Quality Impact Analysis

7.1 Thresholds of Significance

The proposed project could result in potentially significant impacts related to greenhouse gas emissions and global climate change if it would:

- A. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.
- B. Conflict with an applicable plan, policy, or regulation adopted for the purposes of reducing the emissions of greenhouse gases.

A numerical threshold for determining the significance of greenhouse gas emissions in the South Coast Air Basin (Basin) has not been established by the South Coast Air Quality Management District (SCAQMD). As an interim threshold based on guidance provided in the CAPCOA *CEQA* and *Climate Change* handbook, a non-zero threshold approach based on Approach 2 of the handbook has been used. Threshold 2.5 (Unit-Based Thresholds Based on Market Capture) establishes a numerical threshold based on capture of approximately 90 percent of emissions from future development. The latest threshold developed by SCAQMD using this method is 3,000 metric tons carbon dioxide equivalent (MTCO2E) per year for land use projects.³² This threshold is based on the review of 711 CEQA projects. This threshold will be utilized herein to determine if emissions of greenhouse gases from the proposed project and hypothetical development will be significant.

7.2 Direct and Indirect Emissions

The proposed car wash facility will include activities that emit greenhouse gas emissions over the short- and long-term. While one project could not be said to cause global climate change, individual projects contribute cumulatively to greenhouse gas emissions that result in climate change. A greenhouse gas emissions inventory was prepared for the project and is analyzed below.

7.2.1 Short-Term Emissions

The proposed project will result in short-term greenhouse gas emissions associated with construction and installation activities. Greenhouse gas emissions will be released by equipment used for grading, paving, and building construction activities. GHG emissions will also result from worker and vendor trips to and from the project site. Table 12 (Car Wash Facility Construction Greenhouse Gas Emissions) summarizes the estimated yearly emissions from construction activities. Carbon dioxide emissions from construction equipment and worker/vendor trips were estimated utilizing the California Emissions Estimator Model (CalEEMod) version 2016.3.1 (see Appendix A). Construction activities are short-term and cease to emit greenhouse gases upon completion, unlike operational emissions that are continuous year after year until operation of the use ceases. Because of this difference, SCAQMD recommends in its draft threshold to amortize construction emissions over a 30-year operational lifetime. This normalizes construction emissions so that they can be grouped with operational emissions in order to generate a precise project GHG inventory. Amortized construction emissions are also included in Table.

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Car Wash Facility Construction Greenhouse Gas Emissions					
Construction	(GHG Emissio	ons (MT/YR	1	
Year	CO ₂ CH ₄ N ₂ O TOT				
2017	238	<1	0	239	
2018	23	<1	0	23	
Total	261	<1	0	262	
AMORTIZED TOTAL [^]	9	<1	0	9	
* MTCO2E					
Note: Slight variations may occur due to rounding					
^ Amortized over 30-years					

	Table 12
Car Wash Facility	y Construction Greenhouse Gas Emissions

7.2.2 Long-Term Emissions

Car wash and vacuuming activities will result in continuous greenhouse gas emissions from mobile and operational sources. Mobile sources including vehicle trips generated by the project will result primarily in emissions of CO_2 with minor emissions of CH_4 and N_2O . Energy demand generates GHG emissions through the use of electricity and natural gas. The most significant GHG emission from natural gas usage will be methane. Electricity usage by the proposed project and indirect usage of electricity for water and wastewater conveyance will result primarily in emissions of carbon dioxide due to the burning of fossil fuels in electricity production. Disposal of solid waste will result in emissions of methane from the decomposition of waste at landfills coupled with CO_2 emission from the handling and transport of solid waste. These sources combine to define the long-term greenhouse gas emissions for the build-out of the proposed project.

To determine long-term emissions, CalEEMod was used. The methodology utilized for each emissions source is based on the CAPCOA *Quantifying Greenhouse Gas Mitigation Measures* handbook.³³ A summary of the proposed project's long-term greenhouse gas emissions is included in Table 13 (Car Wash Facility Operational Greenhouse Gas Inventory). Emissions are presented as metric tons of carbon dioxide equivalent (MTCO2E) defined by all emissions having been weighted based on their Global Warming Potential (GWP) (a metric ton is equal to 1.102 US short tons).

Source	GHG Emissions (MT/YR)					
Source	CO ₂	CH ₄	N ₂ O	TOTAL*		
Energy	325	<1	<1	326		
Mobile	639	<1	0	639		
Solid Waste	4	<1	0	10		
Water/Wastewater	14	<1	<1	14		
TOTAL	981	<1	<1	989		
* MTCO2E/YR						
Note: Slight variations may occur due to rounding						

Table 13
On Work Freilite One atting to one the set of the Freiler
Car Wash Facility Operational Greenhouse Gas Emissions

Mobile sources are based on annual vehicle miles traveled (VMT) by each daily trip assumed in CalEEMod (see Appendix A). Solid waste generation and indoor water demand for the facility is based on CalEEMod defaults for a "Gasoline/Service Station". Water use for the car wash was estimated at a 20 gallons per vehicle – though each individual vehicle washed will require more water (potentially 60 to 80 gallons per vehicle (CITE STUDY!), Tri Millenium Properties estimates that the car wash will recycle 90% of all water used. As such, 20 gallons per vehicle is a conservative estimate for total water usage. With an average of 164,250 vehicles washed annually (450 daily, another conservative estimate), total water demand is estimated at 3,285,000 gallons per year.

7.2.3 Greenhouse Gas Emissions Inventory

Table 14 (Car Wash Facility Greenhouse Gas Emissions Inventory) summarizes the yearly estimated greenhouse gas emissions from construction and operational sources. The total yearly carbon dioxide equivalent emissions are estimated at 982 MTCO2E for the proposed project. Thus, the car wash facility would not exceed the SCAQMD threshold of 3,000 MTCO2E per year.

Table 14

Car Wash F	Car Wash Facility Greenhouse Gas Emissions Inventory						
Course		GHG Emissions (MT/YR)					
Source	CO ₂	CH₄	N ₂ O	TOTAL*			
Construction	9	<1	0	10			
Operation	981	<1	<1	98			
Grand Total 999							
* MTCO2E/YR							
Note: Slight variations may occur due to rounding							
^ Construction impacts amortized over 30-years							

7.3 Greenhouse Gas Emissions Reduction Planning

ARB's *Scoping Plan* identifies strategies to reduce California's greenhouse gas emissions in support of AB32. Many of the strategies identified in the Scoping Plan are not applicable at the project level, such as long-term technological improvements to reduce emissions from vehicles. Some measures are applicable and supported by the project, such as energy efficiency. Finally, while some measures are not directly applicable, the project would not conflict with their implementation. Reduction measures are grouped into 18 action categories, as follows:

- California Cap-and-Trade Program Linked to Western Climate Initiative Partner Jurisdictions. Implement a broad-based California cap-and-trade program to provide a firm limit on emissions. Link the California cap-and-trade program with other Western Climate Initiative Partner programs to create a regional market system to achieve greater environmental and economic benefits for California.³⁴ Ensure California's program meets all applicable AB 32 requirements for market-based mechanisms.
- California Light-Duty Vehicle Greenhouse Gas Standards. Implement adopted Pavley standards and planned second phase of the program. Align zero-emission vehicle, alternative and renewable fuel and vehicle technology programs with long-term climate change goals.
- 3. Energy Efficiency. Maximize energy efficiency building and appliance standards, and pursue additional efficiency efforts including new technologies, and new policy and implementation mechanisms. Pursue comparable investment in energy efficiency from all retail providers of electricity in California (including both investor-owned and publicly owned utilities).
- 4. Renewables Portfolio Standards. Achieve 33 percent renewable energy mix statewide.
- 5. Low Carbon Fuel Standard. Develop and adopt the Low Carbon Fuel Standard.
- 6. **Regional Transportation-Related Greenhouse Gas Targets.** Develop regional greenhouse gas emissions reduction targets for passenger vehicles.
- 7. Vehicle Efficiency Measures. Implement light-duty vehicle efficiency measures.
- 8. **Goods Movement.** Implement adopted regulations for the use of shore power for ships at berth. Improve efficiency in goods movement activities.
- 9. Million Solar Roofs Program. Install 3,000 megawatts of solar-electric capacity under California's existing solar programs.

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- Medium- and Heavy-Duty Vehicles. Adopt medium- (MD) and heavy-duty (HD) vehicle efficiencies. Aerodynamic efficiency measures for HD trucks pulling trailers 53-feet or longer that include improvements in trailer aerodynamics and use of rolling resistance tires were adopted in 2008 and went into effect in 2010.³⁵ Future, yet to be determined improvements, includes hybridization of MD and HD trucks.
- 11. **Industrial Emissions.** Require assessment of large industrial sources to determine whether individual sources within a facility can cost-effectively reduce greenhouse gas emissions and provide other pollution reduction co-benefits. Reduce greenhouse gas emissions from fugitive emissions from oil and gas extraction and gas transmission. Adopt and implement regulations to control fugitive methane emissions and reduce flaring at refineries.
- 12. High Speed Rail. Support implementation of a high speed rail system.
- 13. Green Building Strategy. Expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings.
- 14. High Global Warming Potential Gases. Adopt measures to reduce high warming global potential gases.
- 15. **Recycling and Waste.** Reduce methane emissions at landfills. Increase waste diversion, composting and other beneficial uses of organic materials, and mandate commercial recycling. Move toward zero-waste.
- 16. **Sustainable Forests.** Preserve forest sequestration and encourage the use of forest biomass for sustainable energy generation. The 2020 target for carbon sequestration is 5 million MTCO2E/YR.
- 17. Water. Continue efficiency programs and use cleaner energy sources to move and treat water.
- 18. Agriculture. In the near-term, encourage investment in manure digesters and at the five-year Scoping Plan update determine if the program should be made mandatory by 2020.

Table 15 (Car Wash Facility Scoping Plan Consistency Summary) summarizes consistency with the State Scoping Plan. As summarized, the project will not conflict with any of the provisions of the Scoping Plan and in fact supports four of the action categories through water conservation and recycling.

Action	Supporting Measures	Consistency					
Cap-and-Trade Program		Not Applicable. These programs involve capping emissions from electricity generation, industrial facilities, and broad scoped fuels. Caps do not directly affect car wash facilities					
Light-Duty Vehicle Standards	T-1	Not Applicable. This is a statewide measure establishing vehicle emissions standards.					
	E-1						
Energy Efficiency	E-2	Consistent. The project will not conflict with any State					
	CR-1	mandated energy efficiency requirements.					
	CR-2						
Renewables Portfolio Standard	E-3	Not Applicable. Establishes the minimum statewide renewable energy mix.					
Low Carbon Fuel Standard	T-2	Not Applicable. Establishes reduced carbon intensity of transportation fuels.					
Regional Transportation-Related Greenhouse Gas Targets	T-3	Consistent. The project includes features that reduce greenhouse gas emissions, assisting the region in meeting emissions targets.					
Vehicle Efficiency Measures	T-4	Not Applicable. Identifies measures such as minimum tire-fuel efficiency, lower friction oil, and reduction in air conditioning use.					

Table 15
Car Wash Facility Scoping Plan Consistency Summary

Action	Supporting Measures	Consistency
Goods Movement	T-5	Not applicable. Identifies measures to improve goods movement efficiencies such as advanced combustion
	T-6	strategies, friction reduction, waste heat recovery, and electrification of accessories.
Million Solar Roofs Program	E-4	Not Applicable. Sets goal for use of solar systems throughout the state. While the project currently does not include solar energy generation, the buildings could support solar panels in the future.
Medium- & Heavy-Duty Vehicles	T-7	Not applicable. Medium-duty and heavy-duty trucks
	T-8	and trailers will not operate from the proposed project.
	I-1	
	I-2	Not Applicable. These measures are applicable to large
Industrial Emissions	I-3	industrial facilities (> 500,000 MTCOE2/YR) and other
	-4	intensive uses such as refineries.
	I-5	
High Speed Rail	T-9	Not Applicable. Supports increased mobility choice.
Green Building Strategy	GB-1	Consistent. The project includes water and solid waste efficiencies consistent with CALGREEN requirements.
	H-1	
	H-2	Not Applicable. The proposed project is not a
	H-3	substantial source of high GWP emissions and will
High Global Warming Potential Gases	H-4	comply with any future changes in air conditioning, fire
	H-5	protection suppressant, and other requirements.
	H-6	
	H-7	
	RW-1	Consistent. The project is subject to a minimum 50
Recycling and Waste	RW-2	percent recycling standard and will recycle a minimum of
	RW-3	50 percent of construction debris per State and City requirements.
Sustainable Forests	F-1	Not Applicable. The project site is not forested and the project would not result in the loss of any forest land.
	W-1	
	W-2	
Water	W-3	Consistent. The project includes use of recycled water
	W-4	and low-flow fixtures.
	W-5	4
	W-6	
Agriculture	A-1	Not Applicable. The project is not an agricultural use.

Attachment: Appendix A - Air Quality and Greenhouse Gas Assessment (2913 : PEN16-0113 Plot Plan)

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- ²⁸ South Coast Air Quality Management District. Final Localized Significance Threshold Methodology. July 2008.
- ²⁹ California Department of Transportation. Transportation Project-Level Carbon Monoxide Protocol. 1997.
- ³⁰ Sacramento Metropolitan Air Quality Management District. CEQA Guide. May 2011.
- ³¹ City of Moreno Valley. Moreno Valley Traffic Counts. 2014.
- ³² South Coast Air Quality Management District. CEQA Significance Thresholds Working Group. Meeting # 15, Main Presentation. September 28, 2010.
- ³³ California Air Pollution Control Officers Association. Quantifying Greenhouse Gas Emissions. August 2010.
- ³⁴ Sacramento Metropolitan Air Quality Management District. CEQA Guide. May 2011.

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³⁵ California Air Resources Board. Scoping Plan Measures Implementation Timeline. October 2010.

Appendix A CalEEMod Output

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Sunnymead Blvd Car Wash - South Coast Air Basin, Summer

Sunnymead Blvd Car Wash

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	1.00	User Defined Unit	0.15	6,500.00	0
Other Non-Asphalt Surfaces	15.00	1000sqft	0.34	15,000.00	0
Parking Lot	52.00	1000sqft	1.19	52,000.00	0
	0.00		0.00		0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2019
Utility Company	Southern Califor	nia Edison			
CO2 Intensity (Ib/MWhr)	702.44	CH4 Intensity (Ib/MWhr)	0.029	N2O Intensity 0 (Ib/MWhr)	.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - User Defined Commercial: Car Wash

Construction Phase -

Trips and VMT - urban area, shorter hauling length

Grading -

Vehicle Trips - car wash trip generation from SANDAG study

Energy Use - Car wash electricity assumes 4.2312 kWH/vehicle (based on 'Professional Carwashing & Detailing' case study) + a conservative estimate for vacuum station energy consumption

Water And Wastewater - given recycling/reclaiming of water (90% estimated by client), 20 gal/vehicle fresh water is assumed (and this is quite conservative, it is probably less) urban area, no septic tanks

Solid Waste - using CalEEMod's "Gasoline/Service Station" rate of 3.00 tons/1000sqft building

Sequestration - from site plan

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	0.00	150.00
tblFleetMix	FleetMixLandUseSubType	User Defined Commercial	
tblFleetMix	FleetMixLandUseSubType		User Defined Commercial
tblLandUse	BuildingSpaceSquareFeet	0.00	6,500.00
tblLandUse	LandUseSquareFeet	0.00	6,500.00
tblLandUse	LotAcreage	0.00	0.15
tblProjectCharacteristics	OperationalYear	2018	2019
tblSequestration	NumberOfNewTrees	0.00	74.00
tblSolidWaste	SolidWasteGenerationRate	0.00	19.50
tblTripsAndVMT	HaulingTripNumber	0.00	62.00
tblVehicleTrips	CC_TTP	0.00	95.00
tblVehicleTrips	CNW_TTP	0.00	1.00
tblVehicleTrips	CW_TTP	0.00	4.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	450.00
tblVehicleTrips	SU_TR	0.00	450.00
tblVehicleTrips	WD_TR	0.00	450.00
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	IndoorWaterUseRate	0.00	282,243.00
tblWater	OutdoorWaterUseRate		209,040.00
tblWater	OutdoorWaterUseRate		3,285,000.00
tblWater	SepticTankPercent	10.33	0.00

tblWater SepticTankPercent 10.33 0.00	10.33 0.00		
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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/c	lay							lb/d	ay		
2017	3.2042	23.5950	16.4723	0.0290	5.2744	1.2476	6.1775	2.6235	1.2030	3.4554	0.0000	2,891.223 6	2,891.2236	0.5446	0.0000	2,904.838 1
2018	8.2195	19.0014	15.7476	0.0288	0.4121	1.0714	1.4835	0.1110	1.0343	1.1453	0.0000	2,728.865 9	2,728.8659	0.4443	0.0000	2,739.973 0
Maximum	8.2195	23.5950	16.4723	0.0290	5.2744	1.2476	6.1775	2.6235	1.2030	3.4554	0.0000	2,891.223 6	2,891.2236	0.5446	0.0000	2,904.838 1

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/c	day							lb/c	lay		
2017	3.2042	23.5950	16.4723	0.0290	5.2744	1.2476	6.1775	2.6235	1.2030	3.4554	0.0000	2,891.223 6	2,891.2236	0.5446	0.0000	2,904.838 1
2018	8.2195	19.0014	15.7476	0.0288	0.4121	1.0714	1.4835	0.1110	1.0343	1.1453	0.0000	2,728.865 9	2,728.8659	0.4443	0.0000	2,739.973 0
Maximum	8.2195	23.5950	16.4723	0.0290	5.2744	1.2476	6.1775	2.6235	1.2030	3.4554	0.0000	2,891.223 6	2,891.2236	0.5446	0.0000	2,904.838 1
	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		
Area	0.1747	7.0000e- 005	7.0100e- 003	0.0000		3.0000e- 005	3.0000e- 005		3.0000e- 005	3.0000e- 005		0.0149	0.0149	4.0000e- 005		0.0159
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.9522	4.5326	12.5372	0.0396	3.0334	0.0442	3.0776	0.8116	0.0416	0.8533		4,020.706 9	4,020.7069	0.2107		4,025.974 3
Total	1.1269	4.5326	12.5442	0.0396	3.0334	0.0443	3.0777	0.8116	0.0416	0.8533		4,020.721 8	4,020.7218	0.2107	0.0000	4,025.990 2

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhau PM2.			Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day								lb/o	day		
Area	0.1747	7.0000e- 005	7.0100e- 003	0.0000		3.0000e- 005	3.0000e- 005		3.0000 005	e- 3.000 00	1		0.0149	0.0149	4.0000e- 005		0.0159
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.000) 0.00	000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.9522	4.5326	12.5372	0.0396	3.0334	0.0442	3.0776	0.8116	0.041	6 0.85	33	Ľ	1,020.706 9	4,020.7069	0.2107		4,025.974 3
Total	1.1269	4.5326	12.5442	0.0396	3.0334	0.0443	3.0777	0.8116	0.041	6 0.85	33	2	1,020.721 8	4,020.7218	0.2107	0.0000	4,025.990 2
	ROG	i N	Ox (CO 5		· .			gitive E M2.5	Exhaust PM2.5	PM2.5 Total	-	D2 NBio	-CO2 Tot CC		14 N	20 C(
Percent Reduction	0.00	0	.00 0	.00 0	0.00 0	.00 0	.00 0	.00 (0.00	0.00	0.00	0.00	0.	00 0.0	0 0.0	0 00	.00 0

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3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	4/6/2017	4/11/2017	5	4	
2	Building Construction	Building Construction	4/12/2017	1/16/2018	5	200	
3	Paving	Paving	1/17/2018	1/30/2018	5	10	
4	Architectural Coating	Architectural Coating	1/31/2018	2/13/2018	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 1.53

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 9,750; Non-Residential Outdoor: 3,250; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Architectural Coating	Air Compressors	1	6.00	78	0.48
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Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	3	8.00	0.00	62.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	30.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.6023	18.2915	7.0342	0.0141		0.8738	0.8738		0.8039	0.8039		1,444.895 8	1,444.8958	0.4427		1,455.963 6
Total	1.6023	18.2915	7.0342	0.0141	4.9143	0.8738	5.7880	2.5256	0.8039	3.3295		1,444.895 8	1,444.8958	0.4427		1,455.963 6

Unmitigated Construction Off-Site

PM10 PM10 Total PM2.5 PM2.5 Total CO2

Category					lb/c	lay						lb/d	lay	
Hauling	0.1618	5.2681	1.0112	0.0125	0.2707	0.0286	0.2994	0.0742	0.0274	0.1016	1,346.033 5	1,346.0335	0.0981	1,348.485 5
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0354	0.4546	1.0100e- 003	0.0894	7.4000e- 004	0.0902	0.0237	6.8000e- 004	0.0244	100.2943	100.2943	3.7900e- 003	100.3890
Total	0.2098	5.3035	1.4658	0.0135	0.3602	0.0294	0.3895	0.0979	0.0281	0.1260	1,446.327 8	1,446.3278	0.1019	1,448.874 5

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.6023	18.2915	7.0342	0.0141		0.8738	0.8738	000000000000000000000000000000000000000	0.8039	0.8039	0.0000	1,444.895 8	1,444.8958	0.4427		1,455.963 6
Total	1.6023	18.2915	7.0342	0.0141	4.9143	0.8738	5.7880	2.5256	0.8039	3.3295	0.0000	1,444.895 8	1,444.8958	0.4427		1,455.963 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	lay		
Hauling	0.1618	5.2681	1.0112	0.0125	0.2707	0.0286	0.2994	0.0742	0.0274	0.1016		1,346.033 5	1,346.0335	0.0981		1,348.485 5
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Worker	0.0480	0.0354	0.4546	1.0100e- 003	0.0894	7.4000e- 004	0.0902	0.0237	6.8000e- 004	0.0244	100	0.2943	100.2943	3.7900e- 003	100.3890
Total	0.2098	5.3035	1.4658	0.0135	0.3602	0.0294	0.3895	0.0979	0.0281	0.1260	1,4	46.327	1,446.3278		1,448.874
												8			5

3.3 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Off-Road	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875		2,043.864 1	2,043.8641	0.4298		2,054.608 5
Total	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875		2,043.864 1	2,043.8641	0.4298		2,054.608 5

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0587	1.5528	0.4108	3.1300e- 003	0.0768	0.0135	0.0902	0.0221	0.0129	0.0350		333.4290	333.4290	0.0242		334.0330
Worker	0.1801	0.1326	1.7047	3.7800e- 003	0.3353	2.7800e- 003	0.3381	0.0889	2.5700e- 003	0.0915		376.1037	376.1037	0.0142	Banana an a	376.4587
Total	0.2389	1.6854	2.1155	6.9100e- 003	0.4121	0.0162	0.4284	0.1110	0.0154	0.1265		709.5327	709.5327	0.0384		710.4917

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
Off-Road	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875	0.0000	2,043.864 1	2,043.8641	0.4298		2,054.608 5
Total	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875	0.0000	2,043.864 1	2,043.8641	0.4298		2,054.608 5

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0587	1.5528	0.4108	3.1300e- 003	0.0768	0.0135	0.0902	0.0221	0.0129	0.0350		333.4290	333.4290	0.0242	D	334.0330
Worker	0.1801	0.1326	1.7047	3.7800e- 003	0.3353	2.7800e- 003	0.3381	0.0889	2.5700e- 003	0.0915		376.1037	376.1037	0.0142		376.4587
Total	0.2389	1.6854	2.1155	6.9100e- 003	0.4121	0.0162	0.4284	0.1110	0.0154	0.1265		709.5327	709.5327	0.0384		710.4917

3.3 Building Construction - 2018

Unmitigated Construction On-Site

_																
	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
					1 11110	1.1110	rotar	1 1012.0	1 10.2.0	, Star		002				

Category					lb/day					lb	/day	
Off-Road	2.5919	17.4280	13.8766	0.0220	1.0580	1.0580	1.0216	1.0216	2,030. 9	338 2,030.838	0.4088	2,041.059 6
Total	2.5919	17.4280	13.8766	0.0220	1.0580	1.0580	1.0216	1.0216	2,030. 9	338 2,030.838	9 0.4088	2,041.059 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0516	1.4579	0.3701	3.1200e- 003	0.0768	0.0107	0.0874	0.0221	0.0102	0.0323		332.4110	332.4110	0.0230		332.9850
Worker	0.1603	0.1156	1.5009	3.6700e- 003	0.3353	2.6900e- 003	0.3380	0.0889	2.4800e- 003	0.0914		365.6160	365.6160	0.0125		365.9284
Total	0.2119	1.5735	1.8710	6.7900e- 003	0.4121	0.0134	0.4255	0.1110	0.0127	0.1237		698.0271	698.0271	0.0355		698.9135

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ау							lb/d	lay		
Off-Road	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216	0.0000	2,030.838 9	2,030.8389	0.4088		2,041.059 6
Total	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216	0.0000	2,030.838 9	2,030.8389	0.4088		2,041.059 6

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0516	1.4579	0.3701	3.1200e- 003	0.0768	0.0107	0.0874	0.0221	0.0102	0.0323		332.4110	332.4110	0.0230		332.9850
Worker	0.1603	0.1156	1.5009	3.6700e- 003	0.3353	2.6900e- 003	0.3380	0.0889	2.4800e- 003	0.0914		365.6160	365.6160	0.0125	B	365.9284
Total	0.2119	1.5735	1.8710	6.7900e- 003	0.4121	0.0134	0.4255	0.1110	0.0127	0.1237		698.0271	698.0271	0.0355		698.9135

3.4 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	lay		
Off-Road	1.0182	10.4525	8.9926	0.0135		0.6097	0.6097		0.5618	0.5618		1,346.436 0	1,346.4360	0.4113		1,356.718 6
Paving	0.3118					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3300	10.4525	8.9926	0.0135		0.6097	0.6097		0.5618	0.5618		1,346.436 0	1,346.4360	0.4113		1,356.718 6

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	D	0.0000
Worker	0.0695	0.0501	0.6504	1.5900e- 003	0.1453	1.1700e- 003	0.1465	0.0385	1.0700e- 003	0.0396		158.4336	158.4336	5.4100e- 003		158.5690
Total	0.0695	0.0501	0.6504	1.5900e- 003	0.1453	1.1700e- 003	0.1465	0.0385	1.0700e- 003	0.0396		158.4336	158.4336	5.4100e- 003		158.5690

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	lay		
Off-Road	1.0182	10.4525	8.9926	0.0135		0.6097	0.6097		0.5618	0.5618	0.0000	1,346.436 0	1,346.4360	0.4113		1,356.718 6
Paving	0.3118			Dununununununununununununun		0.0000	0.0000		0.0000	0.0000		D	0.0000	0	Dununununununununununununun	0.0000
Total	1.3300	10.4525	8.9926	0.0135		0.6097	0.6097		0.5618	0.5618	0.0000	1,346.436 0	1,346.4360	0.4113		1,356.718 6

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		

Total	0.0695	0.0501	0.6504	1.5900e- 003	0.1453	1.1700e- 003	0.1465	0.0385	1.0700e- 003	0.0396	158.4336	158.4336	5.4100e- 003	158.5690
Worker	0.0695	0.0501	0.6504	1.5900e- 003	0.1453	1.1700e- 003	0.1465	0.0385	1.0700e- 003	0.0396	158.4336	158.4336	5.4100e- 003	158.5690
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.5 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	lay		
Archit. Coating	7.8888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	8.1874	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0321	0.0231	0.3002	7.3000e- 004	0.0671	5.4000e- 004	0.0676	0.0178	5.0000e- 004	0.0183		73.1232	73.1232	2.5000e- 003		73.1857

Total	0.0321	0.0231	0.3002	7.3000e- 004	0.0671	5.4000e- 004	0.0676	0.0178	5.0000e- 004	0.0183	73.1232	73.1232	2.5000e- 003	73.1857

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ау		
Archit. Coating	7.8888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	8.1874	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category			<u>.</u>		lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0321	0.0231	0.3002	7.3000e- 004	0.0671	5.4000e- 004	0.0676	0.0178	5.0000e- 004	0.0183		73.1232	73.1232	2.5000e- 003		73.1857
Total	0.0321	0.0231	0.3002	7.3000e- 004	0.0671	5.4000e- 004	0.0676	0.0178	5.0000e- 004	0.0183		73.1232	73.1232	2.5000e- 003		73.1857

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		
Mitigated	0.9522	4.5326	12.5372	0.0396	3.0334	0.0442	3.0776	0.8116	0.0416	0.8533		4,020.706 9	4,020.7069	0.2107		4,025.974 3
Unmitigated	0.9522	4.5326	12.5372	0.0396	3.0334	0.0442	3.0776	0.8116	0.0416	0.8533		4,020.706 9	4,020.7069	0.2107		4,025.974 3

4.2 Trip Summary Information

	Aver	age Daily Trip I	Rate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
User Defined Commercial	450.00	450.00	450.00	1,427,189	1,427,189
Total	450.00	450.00	450.00	1,427,189	1,427,189

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Commercial	16.60	8.40	6.90	4.00	95.00	1.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
	0.548893	0.044275	0.199565	0.124385	0.017503	0.005874	0.020174	0.028962	0.001990	0.002015	0.004673	0.000702	0.000989
Other Non-Asphalt Surfaces	0.548893	0.044275	0.199565	0.124385	0.017503	0.005874	0.020174	0.028962	0.001990	0.002015	0.004673	0.000702	0.000989
Parking Lot	0.548893	0.044275	0.199565	0.124385	0.017503	0.005874	0.020174	0.028962	0.001990	0.002015	0.004673	0.000702	0.000989

User Defined Commercial	0.548893	0.044275	0.199565	0.124385	0.017503	0.005874	0.028962	0.001990	0.002015	0.004673	0.000702 0	.000989

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

<u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	lay							lb/d	lay		
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/c	lay		
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
Mitigated	0.1747	7.0000e- 005	7.0100e- 003	0.0000		3.0000e- 005	3.0000e- 005		3.0000e- 005	3.0000e- 005		0.0149	0.0149	4.0000e- 005		0.0159
Unmitigated	0.1747	7.0000e- 005	7.0100e- 003	0.0000		3.0000e- 005	3.0000e- 005		3.0000e- 005	3.0000e- 005		0.0149	0.0149	4.0000e- 005		0.0159

6.2 Area by SubCategory

<u>Unmitigated</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/c	lay							lb/c	lay		
Architectural Coating	0.0216					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1524					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.6000e- 004	7.0000e- 005	7.0100e- 003	0.0000		3.0000e- 005	3.0000e- 005		3.0000e- 005	3.0000e- 005		0.0149	0.0149	4.0000e- 005		0.0159
Total	0.1747	7.0000e- 005	7.0100e- 003	0.0000		3.0000e- 005	3.0000e- 005		3.0000e- 005	3.0000e- 005		0.0149	0.0149	4.0000e- 005		0.0159

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	lay							lb/c	lay		
Architectural Coating	0.0216					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1524					0.0000	0.0000		0.0000	0.0000			0.0000		Ø1111111111111111111111111111111111111	0.0000
Landscaping	6.6000e- 004	7.0000e- 005	7.0100e- 003	0.0000		3.0000e- 005	3.0000e- 005		3.0000e- 005	3.0000e- 005		0.0149	0.0149	4.0000e- 005		0.0159
Total	0.1747	7.0000e- 005	7.0100e- 003	0.0000		3.0000e- 005	3.0000e- 005		3.0000e- 005	3.0000e- 005		0.0149	0.0149	4.0000e- 005		0.0159

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Landscaping

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
10.0 Stationary Equipment	:					
Fire Pumps and Emergency Ge	<u>nerators</u>					
Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
<u>Boilers</u>						
Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type	
Jser Defined Equipment						
Equipment Type	Number					
11.0 Vegetation		-				

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Sunnymead Blvd Car Wash - South Coast Air Basin, Winter

Sunnymead Blvd Car Wash

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	1.00	User Defined Unit	0.15	6,500.00	0
Other Non-Asphalt Surfaces	15.00	1000sqft	0.34	15,000.00	0
Parking Lot	52.00	1000sqft	1.19	52,000.00	0
	0.00		0.00		0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2019
Utility Company	Southern California Edis	on			
CO2 Intensity (Ib/MWhr)	702.44	CH4 Intensity (Ib/MWhr)	0.029	N2O Intensity (Ib/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - User Defined Commercial: Car Wash

Construction Phase -

Trips and VMT - urban area, shorter hauling length

Grading -

Vehicle Trips - car wash trip generation from SANDAG study

Energy Use - Car wash electricity assumes 4.2312 kWH/vehicle (based on 'Professional Carwashing & Detailing' case study) + a conservative estimate for vacuum station energy consumption

Water And Wastewater - given recycling/reclaiming of water (90% estimated by client), 20 gal/vehicle fresh water is assumed (and this is quite conservative, it is probably less)

urban area, no septic tanks

Solid Waste - using CalEEMod's "Gasoline/Service Station" rate of 3.00 tons/1000sqft building

Sequestration - from site plan

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	0.00	150.00
tblFleetMix	FleetMixLandUseSubType	User Defined Commercial	
tblFleetMix	FleetMixLandUseSubType		User Defined Commercial
tblLandUse	BuildingSpaceSquareFeet	0.00	6,500.00
tblLandUse	LandUseSquareFeet	0.00	6,500.00
tblLandUse	LotAcreage	0.00	0.15
tblProjectCharacteristics	OperationalYear	2018	2019
tblSequestration	NumberOfNewTrees	0.00	74.00
tblSolidWaste	SolidWasteGenerationRate	0.00	19.50
tblTripsAndVMT	HaulingTripNumber	0.00	62.00
tblVehicleTrips	CC_TTP	0.00	95.00
tblVehicleTrips	CNW_TTP	0.00	1.00
tblVehicleTrips	CW_TTP	0.00	4.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	450.00
tblVehicleTrips	SU_TR	0.00	450.00
tblVehicleTrips	WD_TR	0.00	450.00
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	IndoorWaterUseRate	0.00	282,243.00
tblWater	OutdoorWaterUseRate	0.00	209,040.00
tblWater	OutdoorWaterUseRate	0.00	3,285,000.00
tblWater	SepticTankPercent	10.33	0.00

tblWater SepticTankPercent 10.33	0.00	
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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/c	lay							lb/d	lay		
2017	3.2238	23.6782	16.3698	0.0286	5.2744	1.2478	6.1780	2.6235	1.2032	3.4559	0.0000	2,863.401 7	2,863.4017	0.5485	0.0000	2,877.113 3
2018	8.2226	19.0160	15.6530	0.0285	0.4121	1.0715	1.4837	0.1110	1.0344	1.1455	0.0000	2,697.384 2	2,697.3842	0.4451	0.0000	2,708.512 4
Maximum	8.2226	23.6782	16.3698	0.0286	5.2744	1.2478	6.1780	2.6235	1.2032	3.4559	0.0000	2,863.401 7	2,863.4017	0.5485	0.0000	2,877.113 3

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/c	day							lb/c	lay		
2017	3.2238	23.6782	16.3698	0.0286	5.2744	1.2478	6.1780	2.6235	1.2032	3.4559	0.0000	2,863.401 7	2,863.4017	0.5485	0.0000	2,877.113 3
2018	8.2226	19.0160	15.6530	0.0285	0.4121	1.0715	1.4837	0.1110	1.0344	1.1455	0.0000	2,697.384 2	2,697.3842	0.4451	0.0000	2,708.512 4
Maximum	8.2226	23.6782	16.3698	0.0286	5.2744	1.2478	6.1780	2.6235	1.2032	3.4559	0.0000	2,863.401 7	2,863.4017	0.5485	0.0000	2,877.113 3
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Area	0.1747	7.0000e- 005	7.0100e- 003	0.0000		3.0000e- 005	3.0000e- 005		3.0000e- 005	3.0000e- 005		0.0149	0.0149	4.0000e- 005		0.0159
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.9184	4.6507	11.8517	0.0376	3.0334	0.0445	3.0780	0.8116	0.0419	0.8536		3,813.171 0	3,813.1710	0.2099		3,818.417 6
Total	1.0931	4.6507	11.8587	0.0376	3.0334	0.0446	3.0780	0.8116	0.0419	0.8536		3,813.185 9	3,813.1859	0.2099	0.0000	3,818.433 5

Mitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	2 NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/e	day		
Area	0.1747	7.0000e- 005	7.0100e- 003	0.0000		3.0000e- 005	3.0000e- 005		3.0000e- 005	3.0000e- 005		0.0149	0.0149	4.0000e- 005		0.0159
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.9184	4.6507	11.8517	0.0376	3.0334	0.0445	3.0780	0.8116	0.0419	0.8536		3,813.171 0	3,813.1710	0.2099		3,818.417 6
Total	1.0931	4.6507	11.8587	0.0376	3.0334	0.0446	3.0780	0.8116	0.0419	0.8536		3,813.185 9	3,813.1859	0.2099	0.0000	3,818.433 5
	ROG	N	Ox C	;0 S							//2.5 Bio otal	- CO2 NBio	0-CO2 To CC		14 N	20 CC
Percent Reduction	0.00	0	.00 0.	.00 0	.00 0.	00 0	.00 0	.00 0	0.00	0.00 0	.00 0	.00 0.	.00 0.0	0.0	00 0.	.00 0.(

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3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	4/6/2017	4/11/2017	5	4	
2	Building Construction	Building Construction	4/12/2017	1/16/2018	5	200	
3	Paving	Paving	1/17/2018	1/30/2018	5	10	
4	Architectural Coating	Architectural Coating	1/31/2018	2/13/2018	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 1.53

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 9,750; Non-Residential Outdoor: 3,250; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Architectural Coating	Air Compressors		1 6.00	78	0.48
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Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	3	8.00	0.00	62.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	30.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.6023	18.2915	7.0342	0.0141		0.8738	0.8738		0.8039	0.8039		1,444.895 8	1,444.8958	0.4427		1,455.963 6
Total	1.6023	18.2915	7.0342	0.0141	4.9143	0.8738	5.7880	2.5256	0.8039	3.3295		1,444.895 8	1,444.8958	0.4427		1,455.963 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total CO2	CH4	N2O	CO2e
					PM10	PM10	Total	PM2.5	PM2.5	Total		CO2				

Category					lb/c	lay						lb/d	lay	
Hauling	0.1659	5.3478	1.0876	0.0123	0.2707	0.0291	0.2998	0.0742	0.0278	0.1020	1,324.406 8	1,324.4068	0.1022	1,326.961 3
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0526	0.0389	0.4163	9.5000e- 004	0.0894	7.4000e- 004	0.0902	0.0237	6.8000e- 004	0.0244	94.0992	94.0992	3.5700e- 003	94.1884
Total	0.2185	5.3866	1.5039	0.0132	0.3602	0.0298	0.3900	0.0979	0.0285	0.1264	1,418.506 0	1,418.5060	0.1058	1,421.149 8

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.6023	18.2915	7.0342	0.0141		0.8738	0.8738	000000000000000000000000000000000000000	0.8039	0.8039	0.0000	1,444.895 8	1,444.8958	0.4427		1,455.963 6
Total	1.6023	18.2915	7.0342	0.0141	4.9143	0.8738	5.7880	2.5256	0.8039	3.3295	0.0000	1,444.895 8	1,444.8958	0.4427		1,455.963 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	ay							lb/d	lay		
Hauling	0.1659	5.3478	1.0876	0.0123	0.2707	0.0291	0.2998	0.0742	0.0278	0.1020		1,324.406 8	1,324.4068	0.1022		1,326.961 3
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Worker	0.0526	0.0389	0.4163	9.5000e- 004	0.0894	7.4000e- 004	0.0902	0.0237	6.8000e- 004	0.0244	94.0)992	94.0992	3.5700e- 003	94.1884
Total	0.2185	5.3866	1.5039	0.0132	0.3602	0.0298	0.3900	0.0979	0.0285	0.1264	1,41	8.506 [/]	1,418.5060		1,421.149 8
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3.3 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Off-Road	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875		2,043.864 1	2,043.8641	0.4298		2,054.608 5
Total	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875		2,043.864 1	2,043.8641	0.4298		2,054.608 5

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0611	1.5581	0.4520	3.0500e- 003	0.0768	0.0137	0.0904	0.0221	0.0131	0.0352		324.8003	324.8003	0.0258		325.4457
Worker	0.1974	0.1458	1.5610	3.5500e- 003	0.3353	2.7800e- 003	0.3381	0.0889	2.5700e- 003	0.0915		352.8719	352.8719	0.0134	D	353.2066
Total	0.2585	1.7039	2.0130	6.6000e- 003	0.4121	0.0164	0.4286	0.1110	0.0156	0.1267		677.6722	677.6722	0.0392		678.6523

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	ay							lb/d	ay		
Off-Road	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875	0.0000	2,043.864 1	2,043.8641	0.4298		2,054.608 5
Total	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875	0.0000	2,043.864 1	2,043.8641	0.4298		2,054.608 5

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0611	1.5581	0.4520	3.0500e- 003	0.0768	0.0137	0.0904	0.0221	0.0131	0.0352		324.8003	324.8003	0.0258	D	325.4457
Worker	0.1974	0.1458	1.5610	3.5500e- 003	0.3353	2.7800e- 003	0.3381	0.0889	2.5700e- 003	0.0915		352.8719	352.8719	0.0134		353.2066
Total	0.2585	1.7039	2.0130	6.6000e- 003	0.4121	0.0164	0.4286	0.1110	0.0156	0.1267		677.6722	677.6722	0.0392		678.6523

3.3 Building Construction - 2018

Unmitigated Construction On-Site

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	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
					1 11110	1.1110	rotar	1 1012.0	1 10.2.0	, Star		002				

Category					lb/day							lb/d	ay	
Off-Road	2.5919	17.4280	13.8766	0.0220	1.0580	1.0580		1.0216	1.0216	2,03	30.838 9	2,030.8389	0.4088	2,041.059 6
Total	2.5919	17.4280	13.8766	0.0220	1.0580	1.0580	-	1.0216	1.0216	2,03	30.838 9	2,030.8389	0.4088	2,041.059 6

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0538	1.4610	0.4087	3.0300e- 003	0.0768	0.0108	0.0876	0.0221	0.0104	0.0325		323.5696	323.5696	0.0246		324.1834
Worker	0.1758	0.1270	1.3677	3.4500e- 003	0.3353	2.6900e- 003	0.3380	0.0889	2.4800e- 003	0.0914		342.9758	342.9758	0.0118		343.2694
Total	0.2296	1.5880	1.7764	6.4800e- 003	0.4121	0.0135	0.4256	0.1110	0.0128	0.1239		666.5453	666.5453	0.0363		667.4528

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	lay		
Off-Road	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216	0.0000	2,030.838 9	2,030.8389	0.4088		2,041.059 6
Total	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216	0.0000	2,030.838 9	2,030.8389	0.4088		2,041.059 6

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0538	1.4610	0.4087	3.0300e- 003	0.0768	0.0108	0.0876	0.0221	0.0104	0.0325		323.5696	323.5696	0.0246		324.1834
Worker	0.1758	0.1270	1.3677	3.4500e- 003	0.3353	2.6900e- 003	0.3380	0.0889	2.4800e- 003	0.0914		342.9758	342.9758	0.0118	D	343.2694
Total	0.2296	1.5880	1.7764	6.4800e- 003	0.4121	0.0135	0.4256	0.1110	0.0128	0.1239		666.5453	666.5453	0.0363		667.4528

3.4 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	lay		
Off-Road	1.0182	10.4525	8.9926	0.0135		0.6097	0.6097		0.5618	0.5618		1,346.436 0	1,346.4360	0.4113		1,356.718 6
Paving	0.3118					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3300	10.4525	8.9926	0.0135		0.6097	0.6097		0.5618	0.5618		1,346.436 0	1,346.4360	0.4113		1,356.718 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	D	0.0000
Worker	0.0762	0.0550	0.5927	1.4900e- 003	0.1453	1.1700e- 003	0.1465	0.0385	1.0700e- 003	0.0396		148.6228	148.6228	5.0900e- 003		148.7501
Total	0.0762	0.0550	0.5927	1.4900e- 003	0.1453	1.1700e- 003	0.1465	0.0385	1.0700e- 003	0.0396		148.6228	148.6228	5.0900e- 003		148.7501

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		
Off-Road	1.0182	10.4525	8.9926	0.0135		0.6097	0.6097		0.5618	0.5618	0.0000	1,346.436 0	1,346.4360	0.4113		1,356.718 6
Paving	0.3118			Dununununununununununununun		0.0000	0.0000		0.0000	0.0000	0	D	0.0000			0.0000
Total	1.3300	10.4525	8.9926	0.0135		0.6097	0.6097		0.5618	0.5618	0.0000	1,346.436 0	1,346.4360	0.4113		1,356.718 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		

Total	0.0762	0.0550	0.5927	1.4900e- 003	0.1453	1.1700e- 003	0.1465	0.0385	1.0700e- 003	0.0396	148.6228	148.6228	5.0900e- 003	148.7501
Worker	0.0762	0.0550	0.5927	1.4900e- 003	0.1453	1.1700e- 003	0.1465	0.0385	1.0700e- 003	0.0396	148.6228	148.6228	5.0900e- 003	148.7501
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.5 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		
Archit. Coating	7.8888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	8.1874	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0352	0.0254	0.2736	6.9000e- 004	0.0671	5.4000e- 004	0.0676	0.0178	5.0000e- 004	0.0183		68.5952	68.5952	2.3500e- 003		68.6539

Total	0.0352	0.0254	0.2736	6.9000e- 004	0.0671	5.4000e- 004	0.0676	0.0178	5.0000e- 004	0.0183	68.5952	68.5952	2.3500e- 003	68.6539

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ау		
Archit. Coating	7.8888					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	8.1874	2.0058	1.8542	2.9700e- 003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0352	0.0254	0.2736	6.9000e- 004	0.0671	5.4000e- 004	0.0676	0.0178	5.0000e- 004	0.0183		68.5952	68.5952	2.3500e- 003		68.6539
Total	0.0352	0.0254	0.2736	6.9000e- 004	0.0671	5.4000e- 004	0.0676	0.0178	5.0000e- 004	0.0183		68.5952	68.5952	2.3500e- 003		68.6539

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		
Mitigated	0.9184	4.6507	11.8517	0.0376	3.0334	0.0445	3.0780	0.8116	0.0419	0.8536		3,813.171 0	3,813.1710	0.2099		3,818.417 6
Unmitigated	0.9184	4.6507	11.8517	0.0376	3.0334	0.0445	3.0780	0.8116	0.0419	0.8536		3,813.171 0	3,813.1710	0.2099		3,818.417 6

4.2 Trip Summary Information

	Aver	age Daily Trip F	Rate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
User Defined Commercial	450.00	450.00	450.00	1,427,189	1,427,189
Total	450.00	450.00	450.00	1,427,189	1,427,189

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Commercial	16.60	8.40	6.90	4.00	95.00	1.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
	0.548893	0.044275	0.199565	0.124385	0.017503	0.005874	0.020174	0.028962	0.001990	0.002015	0.004673	0.000702	0.000989
Other Non-Asphalt Surfaces	0.548893	0.044275	0.199565	0.124385	0.017503	0.005874	0.020174	0.028962	0.001990	0.002015	0.004673	0.000702	0.000989
Parking Lot	0.548893	0.044275	0.199565	0.124385	0.017503	0.005874	0.020174	0.028962	0.001990	0.002015	0.004673	0.000702	0.000989

User Defined Commercial	0.548893	0.044275	0.199565	0.124385	0.017503	0.005874	0.028962	0.001990	0.002015	0.004673	0.000702 0	.000989

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	lay		
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/c	lay							lb/c	lay		
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	D	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

2.g

Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/c	lay		
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
Mitigated	0.1747	7.0000e- 005	7.0100e- 003	0.0000		3.0000e- 005	3.0000e- 005		3.0000e- 005	3.0000e- 005		0.0149	0.0149	4.0000e- 005		0.0159
Unmitigated	0.1747	7.0000e- 005	7.0100e- 003	0.0000		3.0000e- 005	3.0000e- 005		3.0000e- 005	3.0000e- 005		0.0149	0.0149	4.0000e- 005		0.0159

6.2 Area by SubCategory

<u>Unmitigated</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/c	lay							lb/c	lay		
Architectural Coating	0.0216					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1524					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.6000e- 004	7.0000e- 005	7.0100e- 003	0.0000		3.0000e- 005	3.0000e- 005		3.0000e- 005	3.0000e- 005		0.0149	0.0149	4.0000e- 005		0.0159
Total	0.1747	7.0000e- 005	7.0100e- 003	0.0000		3.0000e- 005	3.0000e- 005		3.0000e- 005	3.0000e- 005		0.0149	0.0149	4.0000e- 005		0.0159

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	lay							lb/c	lay		
Architectural Coating	0.0216					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1524					0.0000	0.0000		0.0000	0.0000			0.0000		Ø1111111111111111111111111111111111111	0.0000
Landscaping	6.6000e- 004	7.0000e- 005	7.0100e- 003	0.0000		3.0000e- 005	3.0000e- 005		3.0000e- 005	3.0000e- 005		0.0149	0.0149	4.0000e- 005		0.0159
Total	0.1747	7.0000e- 005	7.0100e- 003	0.0000		3.0000e- 005	3.0000e- 005		3.0000e- 005	3.0000e- 005		0.0149	0.0149	4.0000e- 005		0.0159

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Landscaping

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
10.0 Stationary Equipment	:					
Fire Pumps and Emergency Ge	<u>nerators</u>					
Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
<u>Boilers</u>						
Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type	
Jser Defined Equipment						
Equipment Type	Number					
11.0 Vegetation		-				

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Sunnymead Blvd Car Wash - South Coast Air Basin, Annual

Sunnymead Blvd Car Wash

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	1.00	User Defined Unit	0.15	6,500.00	0
Other Non-Asphalt Surfaces	15.00	1000sqft	0.34	15,000.00	0
Parking Lot	52.00	1000sqft	1.19	52,000.00	0
	0.00		0.00		0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2019
Utility Company	Southern California E	Edison			
CO2 Intensity (Ib/MWhr)	702.44	CH4 Intensity (Ib/MWhr)	0.029	N2O Intensity 0 (Ib/MWhr)	.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - User Defined Commercial: Car Wash

Construction Phase -

Trips and VMT - urban area, shorter hauling length

Grading -

Vehicle Trips - car wash trip generation from SANDAG study

Energy Use - Car wash electricity assumes 4.2312 kWH/vehicle (based on 'Professional Carwashing & Detailing' case study) + a conservative estimate for vacuum station energy consumption

Water And Wastewater - given recycling/reclaiming of water (90% estimated by client), 20 gal/vehicle fresh water is assumed (and this is quite conservative, it is probably less)

urban area, no septic tanks

Solid Waste - using CalEEMod's "Gasoline/Service Station" rate of 3.00 tons/1000sqft building

Sequestration - from site plan

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	0.00	150.00
tblFleetMix	FleetMixLandUseSubType	User Defined Commercial	
tblFleetMix	FleetMixLandUseSubType		User Defined Commercial
tblLandUse	BuildingSpaceSquareFeet	0.00	6,500.00
tblLandUse	LandUseSquareFeet	0.00	6,500.00
tblLandUse	LotAcreage	0.00	0.15
tblProjectCharacteristics	OperationalYear	2018	2019
tblSequestration	NumberOfNewTrees	0.00	74.00
tblSolidWaste	SolidWasteGenerationRate	0.00	19.50
tblTripsAndVMT	HaulingTripNumber	0.00	62.00
tblVehicleTrips	CC_TTP	0.00	95.00
tblVehicleTrips	CNW_TTP	0.00	1.00
tblVehicleTrips	CW_TTP	0.00	4.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	450.00
tblVehicleTrips	SU_TR	0.00	450.00
tblVehicleTrips	WD_TR	0.00	450.00
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	IndoorWaterUseRate	0.00	282,243.00
tblWater	OutdoorWaterUseRate	0.00	209,040.00
tblWater	OutdoorWaterUseRate	0.00	3,285,000.00
tblWater	SepticTankPercent	10.33	0.00

	tblWater	SepticTankPercent		10.33		0.00	
_			1				

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					tons	s/yr							МТ	/yr		
2017	0.3048	2.0192	1.5575	2.7600e- 003	0.0486	0.1191	0.1677	0.0155	0.1148	0.1303	0.0000	238.2009	238.2009	0.0409	0.0000	239.2240
2018	0.0649	0.1770	0.1527	2.7000e- 004	3.4700e- 003	0.0102	0.0137	9.3000e- 004	9.7800e- 003	0.0107	0.0000	23.1243	23.1243	4.4400e- 003	0.0000	23.2353
Maximum	0.3048	2.0192	1.5575	2.7600e- 003	0.0486	0.1191	0.1677	0.0155	0.1148	0.1303	0.0000	238.2009	238.2009	0.0409	0.0000	239.2240

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year				-	tons	s/yr							M	/yr		-
2017	0.3048	2.0192	1.5575	2.7600e- 003	0.0486	0.1191	0.1677	0.0155	0.1148	0.1303	0.0000	238.2007	238.2007	0.0409	0.0000	239.2238
2018	0.0649	0.1770	0.1527	2.7000e- 004	3.4700e- 003	0.0102	0.0137	9.3000e- 004	9.7800e- 003	0.0107	0.0000	23.1243	23.1243	4.4400e- 003	0.0000	23.2353
Maximum	0.3048	2.0192	1.5575	2.7600e- 003	0.0486	0.1191	0.1677	0.0155	0.1148	0.1303	0.0000	238.2007	238.2007	0.0409	0.0000	239.2238
	ROG	NOx	co	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-7-2017	6-6-2017	0.5370	0.5370
2	6-7-2017	9-6-2017	0.7927	0.7927
3	9-7-2017	12-6-2017	0.7850	0.7850
4	12-7-2017	3-6-2018	0.4514	0.4514
		Highest	0.7927	0.7927

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							МТ	/yr		
Area	0.0319	1.0000e- 005	8.8000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e- 003	1.6900e- 003	0.0000	0.0000	1.8000e- 003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	325.2360	325.2360	0.0134	2.7800e- 003	326.3996
Mobile	0.1628	0.8626	2.1873	6.9300e- 003	0.5421	8.0600e- 003	0.5501	0.1453	7.5900e- 003	0.1529	0.0000	638.0452	638.0452	0.0345	0.0000	638.9074
Waste						0.0000	0.0000		0.0000	0.0000	3.9583	0.0000	3.9583	0.2339	0.0000	9.8066
Water						0.0000	0.0000		0.0000	0.0000	0.0999	13.5395	13.6393	3.1700e- 003	3.3000e- 004	13.8177
Total	0.1946	0.8626	2.1882	6.9300e- 003	0.5421	8.0600e- 003	0.5501	0.1453	7.5900e- 003	0.1529	4.0582	976.8223	980.8805	0.2850	3.1100e- 003	988.9331

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT.	/yr		

Area	0.0319	1.0000e- 005	8.8000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0 1.690 00	=	.6900e- 003	0.0000	0.0000	1.8000e- 003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0 325.2	:360 325	25.2360	0.0134	2.7800e- 003	326.3996
Mobile	0.1628	0.8626	2.1873	6.9300e- 003	0.5421	8.0600e- 003	0.5501	0.1453	7.5900e- 003	- 0.1529	0.0000	0 638.0	1452 638	38.0452	0.0345	0.0000	638.9074
Waste						0.0000	0.0000		0.0000	0.0000	3.9583	3 0.00	,00 3.9	3.9583	0.2339	0.0000	9.8066
Water						0.0000	0.0000		0.0000	0.0000	0.0999	9 8.63	<i>6</i> 4 8. ⁻	3.7362	2.9700e- 003	2.9000e- 004	8.8971
Total	0.1946	0.8626	2.1882	6.9300e- 003	0.5421	8.0600e- 003	0.5501	0.1453	7.5900e- 003	- 0.1529	4.0582	971.9	193 975	75.9774	0.2848	3.0700e- 003	984.0125
	ROG	N	IOx C	co s		•			•		M2.5 Bio Total	o- CO2	NBio-CO2	2 Tota CO2		H4 N2	20 CO2e
Percent Reduction	0.00	0.	0.00 0.	0.00 0	0.00 0	0.00 0	0.00 0.	0.00 0	0.00 0	0.00 0	0.00	0.00	0.50	0.50	50 0.0	07 1.2	29 0.50

2.3 Vegetation

Vegetation

	CO2e
Category	МТ
New Trees	54.3160
Total	54.3160

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	4/6/2017	4/11/2017	5	4	
2	Building Construction	Building Construction	4/12/2017	1/16/2018	5	200	

-	3	Paving	Paving	1/17/2018	1/30/2018	5	10	
2	1	Architectural Coating	Architectural Coating	1/31/2018	2/13/2018	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 1.53

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 9,750; Non-Residential Outdoor: 3,250; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	3	8.00	0.00	62.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	30.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Paving	5	13.00	0.00	0.00	14.70	6.90	20.00 LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	14.70	6.90	20.00 LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Fugitive Dust					9.8300e- 003	0.0000	9.8300e- 003	5.0500e- 003	0.0000	5.0500e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2000e- 003	0.0366	0.0141	3.0000e- 005		1.7500e- 003	1.7500e- 003		1.6100e- 003	1.6100e- 003	0.0000	2.6216	2.6216	8.0000e- 004	0.0000	2.6417
Total	3.2000e- 003	0.0366	0.0141	3.0000e- 005	9.8300e- 003	1.7500e- 003	0.0116	5.0500e- 003	1.6100e- 003	6.6600e- 003	0.0000	2.6216	2.6216	8.0000e- 004	0.0000	2.6417

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Hauling	3.3000e- 004	0.0109	2.0900e- 003	2.0000e- 005	5.3000e- 004	6.0000e- 005	5.9000e- 004	1.5000e- 004	6.0000e- 005	2.0000e- 004	0.0000	2.4257	2.4257	1.8000e- 004	0.0000	2.4303
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e- 004	8.0000e- 005	8.5000e- 004	0.0000	1.8000e- 004	0.0000	1.8000e- 004	5.0000e- 005	0.0000	5.0000e- 005	0.0000	0.1734	0.1734	1.0000e- 005	0.0000	0.1736
Total	4.3000e- 004	0.0110	2.9400e- 003	2.0000e- 005	7.1000e- 004	6.0000e- 005	7.7000e- 004	2.0000e- 004	6.0000e- 005	2.5000e- 004	0.0000	2.5991	2.5991	1.9000e- 004	0.0000	2.6038

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Fugitive Dust					9.8300e- 003	0.0000	9.8300e- 003	5.0500e- 003	0.0000	5.0500e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2000e- 003	0.0366	0.0141	3.0000e- 005		1.7500e- 003	1.7500e- 003		1.6100e- 003	1.6100e- 003	0.0000	2.6216	2.6216	8.0000e- 004	0.0000	2.6417
Total	3.2000e- 003	0.0366	0.0141	3.0000e- 005	9.8300e- 003	1.7500e- 003	0.0116	5.0500e- 003	1.6100e- 003	6.6600e- 003	0.0000	2.6216	2.6216	8.0000e- 004	0.0000	2.6417

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category		-	-		tons	s/yr	-	-	-				МТ	/yr		-
Hauling	3.3000e- 004	0.0109	2.0900e- 003	2.0000e- 005	5.3000e- 004	6.0000e- 005	5.9000e- 004	1.5000e- 004	6.0000e- 005	2.0000e- 004	0.0000	2.4257	2.4257	1.8000e- 004	0.0000	2.4303
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e- 004	8.0000e- 005	8.5000e- 004	0.0000	1.8000e- 004	0.0000	1.8000e- 004	5.0000e- 005	0.0000	5.0000e- 005	0.0000	0.1734	0.1734	1.0000e- 005	0.0000	0.1736
Total	4.3000e- 004	0.0110	2.9400e- 003	2.0000e- 005	7.1000e- 004	6.0000e- 005	7.7000e- 004	2.0000e- 004	6.0000e- 005	2.5000e- 004	0.0000	2.5991	2.5991	1.9000e- 004	0.0000	2.6038

3.3 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT.	/yr		
Off-Road	0.2787	1.8082	1.3495	2.0700e- 003		0.1158	0.1158		0.1116	0.1116	0.0000	174.2913	174.2913	0.0367	0.0000	175.2075
Total	0.2787	1.8082	1.3495	2.0700e- 003		0.1158	0.1158		0.1116	0.1116	0.0000	174.2913	174.2913	0.0367	0.0000	175.2075

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.6200e- 003	0.1493	0.0406	2.9000e- 004	7.1100e- 003	1.2700e- 003	8.3800e- 003	2.0500e- 003	1.2200e- 003	3.2700e- 003	0.0000	28.1243	28.1243	2.1200e- 003	0.0000	28.1774
Worker	0.0168	0.0141	0.1503	3.4000e- 004	0.0309	2.6000e- 004	0.0312	8.2200e- 003	2.4000e- 004	8.4600e- 003	0.0000	30.5647	30.5647	1.1600e- 003	0.0000	30.5936
Total	0.0224	0.1634	0.1910	6.3000e- 004	0.0381	1.5300e- 003	0.0396	0.0103	1.4600e- 003	0.0117	0.0000	58.6889	58.6889	3.2800e- 003	0.0000	58.7710

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Off-Road	0.2787	1.8082	1.3495	2.0700e- 003		0.1158	0.1158		0.1116	0.1116	0.0000	174.2911	174.2911	0.0367	0.0000	175.2073

Total	0.2787	1.8082	1.3495	2.0700e-	0.1158	0.1158	0.1116	0.1116	0.0000	174.2911	174.2911	0.0367	0.0000	175.2073
				003										

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.6200e- 003	0.1493	0.0406	2.9000e- 004	7.1100e- 003	1.2700e- 003	8.3800e- 003	2.0500e- 003	1.2200e- 003	3.2700e- 003	0.0000	28.1243	28.1243	2.1200e- 003	0.0000	28.1774
Worker	0.0168	0.0141	0.1503	3.4000e- 004	0.0309	2.6000e- 004	0.0312	8.2200e- 003	2.4000e- 004	8.4600e- 003	0.0000	30.5647	30.5647	1.1600e- 003	0.0000	30.5936
Total	0.0224	0.1634	0.1910	6.3000e- 004	0.0381	1.5300e- 003	0.0396	0.0103	1.4600e- 003	0.0117	0.0000	58.6889	58.6889	3.2800e- 003	0.0000	58.7710

3.3 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	ī/yr		
Off-Road	0.0156	0.1046	0.0833	1.3000e- 004		6.3500e- 003	6.3500e- 003		6.1300e- 003	6.1300e- 003	0.0000	11.0541	11.0541	2.2300e- 003	0.0000	11.1097
Total	0.0156	0.1046	0.0833	1.3000e- 004		6.3500e- 003	6.3500e- 003		6.1300e- 003	6.1300e- 003	0.0000	11.0541	11.0541	2.2300e- 003	0.0000	11.1097

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e- 004	8.9300e- 003	2.3400e- 003	2.0000e- 005	4.5000e- 004	6.0000e- 005	5.2000e- 004	1.3000e- 004	6.0000e- 005	1.9000e- 004	0.0000	1.7891	1.7891	1.3000e- 004	0.0000	1.7924
Worker	9.5000e- 004	7.8000e- 004	8.4200e- 003	2.0000e- 005	1.9700e- 003	2.0000e- 005	1.9900e- 003	5.2000e- 004	1.0000e- 005	5.4000e- 004	0.0000	1.8963	1.8963	6.0000e- 005	0.0000	1.8979
Total	1.2700e- 003	9.7100e- 003	0.0108	4.0000e- 005	2.4200e- 003	8.0000e- 005	2.5100e- 003	6.5000e- 004	7.0000e- 005	7.3000e- 004	0.0000	3.6854	3.6854	1.9000e- 004	0.0000	3.6903

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							МТ	/yr		
Off-Road	0.0156	0.1046	0.0833	1.3000e- 004		6.3500e- 003	6.3500e- 003		6.1300e- 003	6.1300e- 003	0.0000	11.0541	11.0541	2.2300e- 003	0.0000	11.1097
Total	0.0156	0.1046	0.0833	1.3000e- 004		6.3500e- 003	6.3500e- 003		6.1300e- 003	6.1300e- 003	0.0000	11.0541	11.0541	2.2300e- 003	0.0000	11.1097

Mitigated Construction Off-Site

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Category					tons	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e- 004	8.9300e- 003	2.3400e- 003	2.0000e- 005	4.5000e- 004	6.0000e- 005	5.2000e- 004	1.3000e- 004	6.0000e- 005	1.9000e- 004	0.0000	1.7891	1.7891	1.3000e- 004	0.0000	1.7924
Worker	9.5000e- 004	7.8000e- 004	8.4200e- 003	2.0000e- 005	1.9700e- 003	2.0000e- 005	1.9900e- 003	5.2000e- 004	1.0000e- 005	5.4000e- 004	0.0000	1.8963	1.8963	6.0000e- 005	0.0000	1.8979
Total	1.2700e- 003	9.7100e- 003	0.0108	4.0000e- 005	2.4200e- 003	8.0000e- 005	2.5100e- 003	6.5000e- 004	7.0000e- 005	7.3000e- 004	0.0000	3.6854	3.6854	1.9000e- 004	0.0000	3.6903

3.4 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Off-Road	5.0900e- 003	0.0523	0.0450	7.0000e- 005		3.0500e- 003	3.0500e- 003		2.8100e- 003	2.8100e- 003	0.0000	6.1073	6.1073	1.8700e- 003	0.0000	6.1540
Paving	1.5600e- 003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.6500e- 003	0.0523	0.0450	7.0000e- 005		3.0500e- 003	3.0500e- 003		2.8100e- 003	2.8100e- 003	0.0000	6.1073	6.1073	1.8700e- 003	0.0000	6.1540

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT,	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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Worker	3.4000e-	2.8000e-	3.0400e-	1.0000e-	7.1000e-	1.0000e-	7.2000e-	1.9000e-	1.0000e-	1.9000e-	0.0000	0.6848	0.6848	2.0000e-	0.0000	0.6854
	004	004	003	005	004	005	004	004	005	004				005		
Total	3.4000e-	2.8000e-	3.0400e-	1.0000e-	7.1000e-	1.0000e-	7.2000e-	1.9000e-	1.0000e-	1.9000e-	0.0000	0.6848	0.6848	2.0000e-	0.0000	0.6854
	004	004	003	005	004	005	004	004	005	004				005		

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Off-Road	5.0900e- 003	0.0523	0.0450	7.0000e- 005		3.0500e- 003	3.0500e- 003		2.8100e- 003	2.8100e- 003	0.0000	6.1073	6.1073	1.8700e- 003	0.0000	6.1540
Paving	1.5600e- 003			Dunnun un u		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.6500e- 003	0.0523	0.0450	7.0000e- 005		3.0500e- 003	3.0500e- 003		2.8100e- 003	2.8100e- 003	0.0000	6.1073	6.1073	1.8700e- 003	0.0000	6.1540

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e- 004	2.8000e- 004	3.0400e- 003	1.0000e- 005	7.1000e- 004	1.0000e- 005	7.2000e- 004	1.9000e- 004	1.0000e- 005	1.9000e- 004	0.0000	0.6848	0.6848	2.0000e- 005	0.0000	0.6854
Total	3.4000e- 004	2.8000e- 004	3.0400e- 003	1.0000e- 005	7.1000e- 004	1.0000e- 005	7.2000e- 004	1.9000e- 004	1.0000e- 005	1.9000e- 004	0.0000	0.6848	0.6848	2.0000e- 005	0.0000	0.6854

3.5 Architectural Coating - 2018

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							МТ	/yr		
Archit. Coating	0.0394					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4900e- 003	0.0100	9.2700e- 003	1.0000e- 005		7.5000e- 004	7.5000e- 004		7.5000e- 004	7.5000e- 004	0.0000	1.2766	1.2766	1.2000e- 004	0.0000	1.2797
Total	0.0409	0.0100	9.2700e- 003	1.0000e- 005		7.5000e- 004	7.5000e- 004		7.5000e- 004	7.5000e- 004	0.0000	1.2766	1.2766	1.2000e- 004	0.0000	1.2797

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e- 004	1.3000e- 004	1.4000e- 003	0.0000	3.3000e- 004	0.0000	3.3000e- 004	9.0000e- 005	0.0000	9.0000e- 005	0.0000	0.3161	0.3161	1.0000e- 005	0.0000	0.3163
Total	1.6000e- 004	1.3000e- 004	1.4000e- 003	0.0000	3.3000e- 004	0.0000	3.3000e- 004	9.0000e- 005	0.0000	9.0000e- 005	0.0000	0.3161	0.3161	1.0000e- 005	0.0000	0.3163

Mitigated Construction On-Site

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Category					tons/yr							MT	/yr		
Archit. Coating	0.0394				0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4900e- 003	0.0100	9.2700e- 003	1.0000e- 005		5000e- 004	7.5000e- 004	7.5000e- 004	7.5000e- 004	0.0000	1.2766	1.2766	1.2000e- 004	0.0000	1.2797
Total	0.0409	0.0100	9.2700e- 003	1.0000e- 005		5000e- 004	7.5000e- 004	7.5000e- 004	7.5000e- 004	0.0000	1.2766	1.2766	1.2000e- 004	0.0000	1.2797

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e- 004	1.3000e- 004	1.4000e- 003	0.0000	3.3000e- 004	0.0000	3.3000e- 004	9.0000e- 005	0.0000	9.0000e- 005	0.0000	0.3161	0.3161	1.0000e- 005	0.0000	0.3163
Total	1.6000e- 004	1.3000e- 004	1.4000e- 003	0.0000	3.3000e- 004	0.0000	3.3000e- 004	9.0000e- 005	0.0000	9.0000e- 005	0.0000	0.3161	0.3161	1.0000e- 005	0.0000	0.3163

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Category					ton	s/yr							MT	/yr		
Mitigated	0.1628	0.8626	2.1873	6.9300e- 003	0.5421	8.0600e- 003	0.5501	0.1453	7.5900e- 003	0.1529	0.0000	638.0452	638.0452	0.0345	0.0000	638.9074
Unmitigated	0.1628	0.8626	2.1873	6.9300e- 003	0.5421	8.0600e- 003	0.5501	0.1453	7.5900e- 003	0.1529	0.0000	638.0452	638.0452	0.0345	0.0000	638.9074

4.2 Trip Summary Information

	Aver	age Daily Trip I	Rate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
User Defined Commercial	450.00	450.00	450.00	1,427,189	1,427,189
Total	450.00	450.00	450.00	1,427,189	1,427,189

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Commercial	16.60	8.40	6.90	4.00	95.00	1.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
	0.548893	0.044275	0.199565	0.124385	0.017503	0.005874	0.020174	0.028962	0.001990	0.002015	0.004673	0.000702	0.000989
Other Non-Asphalt Surfaces	0.548893	0.044275	0.199565	0.124385	0.017503	0.005874	0.020174	0.028962	0.001990	0.002015	0.004673	0.000702	0.000989
Parking Lot	0.548893	0.044275	0.199565	0.124385	0.017503	0.005874	0.020174	0.028962	0.001990	0.002015	0.004673	0.000702	0.000989
User Defined Commercial	0.548893	0.044275	0.199565	0.124385	0.017503	0.005874	0.020174	0.028962	0.001990	0.002015	0.004673	0.000702	0.000989

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	325.2360	325.2360	0.0134	2.7800e- 003	326.3996
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	325.2360	325.2360	0.0134	2.7800e- 003	326.3996
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000	D	0.0000	0.0000	Dunununununununununununununununun	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

<u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr		tons/yr											МТ	/yr		
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							МТ	/yr		
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	Г/yr	
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	45760	14.5801	6.0000e- 004	1.2000e- 004	14.6323
User Defined Commercial	975000	310.6559	0.0128	2.6500e- 003	311.7673
Total		325.2360	0.0134	2.7700e- 003	326.3996

Mitigated

Electricity Total CO2 Use	CH4	N2O	CO2e
------------------------------	-----	-----	------

Land Use	kWh/yr		M	ſ/yr	
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	45760	14.5801	6.0000e- 004	1.2000e- 004	14.6323
User Defined Commercial	975000	310.6559	0.0128	2.6500e- 003	311.7673
Total		325.2360	0.0134	2.7700e- 003	326.3996

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Mitigated	0.0319	1.0000e- 005	8.8000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e- 003	1.6900e- 003	0.0000	0.0000	1.8000e- 003
Unmitigated	0.0319	1.0000e- 005	8.8000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e- 003	1.6900e- 003	0.0000	0.0000	1.8000e- 003

6.2 Area by SubCategory

<u>Unmitigated</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					tons	s/yr							MT,	/yr		

Architectural Coating	3.9400e- 003				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0278				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e- 005	1.0000e- 005	8.8000e- 004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.6900e- 003	1.6900e- 003	0.0000	0.0000	1.8000e- 003
Total	0.0318	1.0000e- 005	8.8000e- 004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.6900e- 003	1.6900e- 003	0.0000	0.0000	1.8000e- 003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					tons	s/yr							MT	/yr		
Architectural Coating	3.9400e- 003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0278					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e- 005	1.0000e- 005	8.8000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e- 003	1.6900e- 003	0.0000	0.0000	1.8000e- 003
Total	0.0318	1.0000e- 005	8.8000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e- 003	1.6900e- 003	0.0000	0.0000	1.8000e- 003

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Landscaping

	Total CO2	CH4	N2O	CO2e
Category		MT	/yr	

2.g

Miligated	8.7362	2.9700e- 003	2.9000e- 004	8.8971
J	13.6393	3.1700e- 003	3.3000e- 004	13.8177

7.2 Water by Land Use

<u>Unmitigated</u>

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		MT	ſ/yr	
Other Non-Asphalt Surfaces	0 / 0.20904	0.7400	3.0000e- 005	1.0000e- 005	0.7426
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0.282243 / 3.285	12.8993	3.1400e- 003	3.3000e- 004	13.0751
Total		13.6393	3.1700e- 003	3.4000e- 004	13.8177

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		MI	ſ/yr	
Other Non-Asphalt Surfaces	0 / 0.126173	0.4466	2.0000e- 005	0.0000	0.4482
Parking Lot	0/0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0.282243 / 1.98277		2.9500e- 003	2.9000e- 004	8.4489
Total		8.7362	2.9700e- 003	2.9000e- 004	8.8971

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e			
	MT/yr						
Mitigated		0.2339	0.0000	9.8066			
Unmitigated	3.9583	0.2339	0.0000	9.8066			

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		MI	Г/yr	
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	19.5	3.9583	0.2339	0.0000	9.8066
Total		3.9583	0.2339	0.0000	9.8066

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		MT	ſ/yr	
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	19.5	3.9583	0.2339	0.0000	9.8066
Total		3.9583	0.2339	0.0000	9.8066

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
<u>Boilers</u>						
Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type	
User Defined Equipment						
Equipment Type	Number					

11.0 Vegetation

2.g

	Total CO2	CH4	N2O	CO2e
Category		М	Т	
Unmitigated	54.3160	0.0000	0.0000	54.3160

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e	
		МТ				
Mixed Hardwood	74	54.3160	0.0000	0.0000	54.3160	
Total		54.3160	0.0000	0.0000	54.3160	

Appendix B Biological Resource Assessment

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Sunnymead Boulevard Car Wash MSHCP Biological Resource Assessment and Consistency Analysis



Prepared for: Bijan Shahmoradi Tri-Millennium Properties/P&N Construction 8730 Wilshire Blvd, Suite 202 Beverly Hills, CA 90211

Prepared by: MIG 1500 Iowa Avenue Suite 110 Riverside, CA 92507

Date: March 15, 2017 2.h

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Attachment E-1. Vicinity Map Attachment E-2. Project Site Map Attachment E-3. Biological Report Summary Sheet Attachment E-4. Level of Significance Checklist Attachment E-5. Soils Map Attachment E-6. Biological Resources Map Attachment E-7. Current Project Site Photographs

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Introduction

1

The purpose of this Biological Resource Assessment and Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) Consistency Analysis is to verify the type, location, and extent of potential sensitive biological resources within the 1.67 acre Sunnymead Boulevard Car Wash Project Site (Project Site) and vicinity. An MSHCP burrowing owl habitat assessment (MSHCP 2006) was also completed to determine the potential for burrowing owl to occur on the Project Site. This report has been conducted in response to the requirements outlined in the City of Moreno Valley Pre-Project Review Staff Committee Meeting (P16-069: P15).

MIG conducted a field survey of the Project Site on March 8, 2017. This report provides information regarding the location, extent, and condition of biological resources occurring on the Project Site. This report provides a thorough description of the biological setting of the site and surrounding area, as well as a description of the vegetation communities, wildlife, potential movement/migration corridors, special status species, sensitive natural communities, and potentially jurisdictional waters and wetlands. An assessment of the project impacts and recommended mitigation measures to avoid, minimize, or compensate for potential adverse impacts to sensitive habitats and species is also included in the report. The evaluation of potential project impacts follows the checklist items from Appendix G of the California Environmental Quality Act (CEQA) guidelines and has been prepared in a format suitable to support CEQA review and to submit with any future regulatory application packages that might be required.

1.1 Project Location

The 1.67 acre Project Site is located north of Sunnymead Boulevard, and west of Heacock Street in the City of Moreno Valley, Riverside County, California, APN 292-160-023 (Attachment E-1, Regional Map; Attachment E-2, Project Site Map). The Project Site occurs within the US Geological Survey (USGS) 7.5' series Sunnymead Quadrangle, Township 3 South, Range 4 West, Section 1. The Project Site is flat, with elevations ranging between approximately 1,640 - 1,647 feet above mean sea level (AMSL). No prominent surface water features occur in the vicinity of the Project Site.

Most the Project Site is vacant (1.43 acres) and receives frequent disturbance from disking. Portions of the Project Site are paved (0.24 acres). Commercial land uses border the Project Site to the east, west, and south. State Road 60 is located to the north.



2 Regulatory Setting

The following discussion identifies federal, state, and local environmental regulations that serve to protect sensitive biological resources relevant to the proposed Project Site and CEQA review process.

2.1 Federal

2.1.1 Federal Endangered Species Act

The Federal Endangered Species Act (FESA) of 1973, as amended, provides the regulatory framework for the protection of plant and animal species (and their associated critical habitats), which are formally listed, proposed for listing, or candidates for listing as endangered or threatened under the FESA. The FESA has the following four major components: (1) provisions for listing species, (2) requirements for consultation with the United States Fish and Wildlife Service (USFWS) and the National Oceanic and Atmospheric Administration's National Marine Fisheries Service (NOAA Fisheries), (3) prohibitions against "taking" (meaning harassing, harming, hunting, shooting, wounding, killing, trapping, capturing, or collecting, or attempting to engage in any such conduct) of listed species, and (4) provisions for permits that allow incidental "take". The FESA also discusses recovery plans and the designation of critical habitat for listed species. Section 7 requires Federal agencies, in consultation with, and with the assistance of the USFWS or NOAA Fisheries, as appropriate, to ensure that actions they authorize, fund, or carry out are not likely to jeopardize the continued existence of threatened or endangered species or result in the destruction or adverse modification of critical habitat for these species. Both the USFWS and NOAA Fisheries share the responsibility for administration of the FESA.

2.1.2 The Migratory Bird Treaty Act

The Federal Migratory Bird Treaty Act (MBTA) (16 U.S.C. 703 et seq.), Title 50 Code of Federal Regulations (CFR) Part 10, prohibits taking, killing, possessing, transporting, and importing of migratory birds, parts of migratory birds, and their eggs and nests, except when specifically authorized by the Department of the Interior. As used in the act, the term "take" is defined as meaning, "to pursue, hunt, capture, collect, kill or attempt to pursue, hunt, shoot, capture, collect or kill, unless the context otherwise requires." With a few exceptions, most birds are considered migratory under the MBTA. Disturbances that cause nest abandonment and/or loss of reproductive effort or loss of habitat upon which these birds depend would be in violation of the MBTA.

2.2 State

2.2.1 California Endangered Species Act

The State of California enacted similar laws to the FESA, the California Native Plant Protection Act (NPPA) in 1977, and the California Endangered Species Act (CESA) in 1984. The CESA expanded upon the original NPPA and enhanced legal protection for plants, but the NPPA remains part of the California Fish and Game Code. To align with the FESA, CESA created the categories of "threatened" and "endangered" species. It converted all "rare" animals into the CESA as threatened species, but did not do so for rare plants. Thus, these laws provide the legal framework for protection of California-listed rare, threatened, and endangered plant and animal species. The California Department of Fish and Wildlife (CDFW) implements NPPA and CESA, and its Wildlife and Habitat Data Analysis Branch maintains the California Natural Diversity Database (CNDDB), a computerized inventory of information on the general location and status of California's rarest plants, animals, and natural communities. During the CEQA review



process, the CDFW is given the opportunity to comment on the potential of the proposed Project to affect listed plants and animals.

2.2.2 Native Plant Protection Act

The NPPA of 1977 (California Fish and Game Code, §§ 1900 through 1913) directed the CDFW to carry out the Legislature's intent to "preserve, protect and enhance rare and endangered plants in this State." The NPPA is administered by the CDFW, which has the authority to designate native plants as endangered or rare and to protect them from "take."

2.2.3 California Environmental Quality Act

CEQA was enacted in 1970 to provide for full disclosure of environmental impacts to the public before issuance of a permit by state and local public agencies. CEQA (Public Resources Code Sections 21000 et. seq.) requires public agencies to review activities which may affect the quality of the environment so that consideration is given to preventing damage to the environment. When a lead agency issues a permit for development that could affect the environment, it must disclose the potential environmental effects of the project. This is done with an Initial Study and Negative Declaration (or Mitigated Negative Declaration) or with an Environmental Impact Report. Certain classes of projects are exempt from detailed analysis under CEQA. CEQA Guidelines Section 15380 defines endangered, threatened, and rare species for purposes of CEQA and clarifies that CEQA review extends to other species that are not formally listed under the state or federal Endangered Species Acts but that meet specified criteria.

2.2.4 Fully Protected Species and Species of Special Concern

The classification of "fully protected" was the CDFW's initial effort to identify and provide additional protection to those animals that were rare or faced possible extinction. Lists were created for fish, amphibian and reptiles, birds, and mammals. Most of the species on these lists have subsequently been listed under CESA and/or FESA. The Fish and Game Code sections (fish at §5515, amphibian and reptiles at §5050, birds at §3511, and mammals at §4700) dealing with "fully protected" species states that these species "...may not be taken or possessed at any time and no provision of this code or any other law shall be construed to authorize the issuance of permits or licenses to "take" any fully protected species," (CDFW Fish and Game Commission 1998) although "take" may be authorized for necessary scientific research. This language makes the "fully protected" designation the strongest and most restrictive regarding the "take" of these species. In 2003, the code sections dealing with fully protected species were amended to allow the CDFW to authorize "take" resulting from recovery activities for state-listed species.

Species of special concern are broadly defined as animals not listed under the FESA or CESA, but which are nonetheless of concern to the CDFW because they are declining at a rate that could result in listing or historically occurred in low numbers and known threats to their persistence currently exist. This designation is intended to result in special consideration for these animals by the CDFW, land managers, consulting biologists, and others, and is intended to focus attention on the species to help avert the need for costly listing under FESA and CESA and cumbersome recovery efforts that might ultimately be required. This designation also is intended to stimulate collection of additional information on the biology, distribution, and status of poorly known at-risk species, and focus research and management attention on them. Although these species generally have no special legal status, they are given special consideration under the CEQA during project review.



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2.2.5 California Fish and Wildlife Code Sections 3503 and 3513

According to Section 3503 of the California Fish and Wildlife Code, it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird (except English sparrow (Passer domesticus) and European starling (Sturnus vulgaris)). Section 3503.5 specifically protects birds in the orders Falconiformes and Strigiformes (birds-of-prey). Section 3513 essentially overlaps with the MBTA, prohibiting the "take" or possession of any migratory non-game bird. Disturbance that causes nest abandonment and/or loss of reproductive effort is considered "take" by the CDFW.

2.2.6 Other Sensitive Plants – California Native Plant Society

The California Native Plant Society, a non-profit plant conservation organization, publishes and maintains an Inventory of Rare and Endangered Vascular Plants of California in both hard copy and electronic version (CNPS 2017).

The Inventory assigns plants to the following categories:

- 1A Presumed extinct in California;
- 1B Rare, threatened, or endangered in California and elsewhere;
- Rare, threatened, or endangered in California, but more common elsewhere; 2
- 3 Plants for which more information is needed - a review list; and
- 4 Plants of limited distribution – a watch list.

Additional endangerment codes are assigned to each taxon as follows:

- Seriously endangered in California (over 80% of occurrences threatened/high degree of 1 immediacy of threat);
- 2 Fairly endangered in California (20-80% occurrences threatened);
- 3 Not very endangered in California (<20% of occurrences threatened or no current threats known).

Plants on Lists 1A, 1B, and 2 of the CNPS Inventory consist of plants that may qualify for listing, and the CDFW, as well as other state agencies (e.g., California Department of Forestry and Fire Protection). As part of the CEQA process, such species should be fully considered, as they meet the definition of threatened or endangered under the NPPA and Sections 2062 and 2067 of the California Fish and Game Code. California Rare Plant Rank 3 and 4 species are considered to be plants about which more information is needed or are uncommon enough that their status should be regularly monitored. Such plants may be eligible or may become eligible for state listing, and CNPS and CDFW recommend that these species be evaluated for consideration during the preparation of CEQA documents (CNPS 2017).

2.2.7 National Pollutant Discharge Elimination System (NPDES)

The NPDES program requires permitting for activities that discharge pollutants into waters of the United States. This includes discharges from municipal, industrial, and construction sources. These are considered point-sources from a regulatory standpoint. Generally, these permits are issued and monitored under the oversight of the State Water Resources Control Board (SWRCB) and administered by each regional water quality control board. Construction activities that disturb one acre or more (whether a single project or part of a larger development) are required to obtain coverage under the state's General Permit for Dischargers of Storm Water Associated with Construction Activity. All dischargers are required to obtain coverage under the Construction General Permit. The activities



covered under the Construction General Permit include clearing, grading, and other disturbances. The permit requires preparation of a Storm Water Pollution Prevention Plan (SWPPP) and implementation of Best Management Practices (BMPs) with a monitoring program. The project will require coverage under the Construction General Permit.

2.2.8 Sensitive Vegetation Communities

Sensitive vegetation communities are natural communities and habitats that are either unique in constituent components, of relatively limited distribution in the region, or of particularly high wildlife value. These communities may or may not necessarily contain special-status species. Sensitive natural communities are usually identified in local or regional plans, policies or regulations, or by the CDFW (i.e., CNDDB) or the USFWS. The CNDDB identifies a number of natural communities as rare, which are given the highest inventory priority (Holland 1986; CDFW 2017). Impacts to sensitive natural communities and habitats must be considered and evaluated under the CEQA (CCR: Title 14, Div. 6, Chap. 3, Appendix G).

2.3 Local

2.3.1 Western Riverside County Multi-Species Habitat Conservation Plan

In June of 2003, the Riverside County Board of Supervisors adopted a comprehensive MSHCP to provide a regional conservation solution to species and habitat issues that have historically threatened to stall infrastructure and land use development. The MSHCP is a multi-jurisdictional effort that encompasses approximately 1.26 million acres (1,966 square miles) and includes all unincorporated Riverside County land west of the crest of the San Jacinto Mountains to the Orange County line, as well as the jurisdictional areas of fourteen cities, including the City of Moreno Valley (Western Riverside County MSHCP 2004).

2.3.2 City of Moreno Valley General Plan

The Project Site occurs within the Central Planning Area of the City of Moreno Valley General Plan. The following measures have been developed to provide assurances that potential significant biological impacts associated with the implementation of the proposed General Plan Update will be mitigated. Subsequent project-level environmental review could identify more detailed site-specific mitigation measures.

B1. The City and all future public and private development projects within the City shall comply with the Long-term HCP for the Stephen's Kangaroo Rat.

B2. The City shall comply with the Western Riverside County Multi-Species Habitat Conservation Plan (MSHCP) and the associated state and federal permits.

B3. Where feasible, projects shall be designed to minimize impacts on sensitive habitat.

B4. Prior to physical disturbance of any natural drainage course or wetland determined to contain riparian vegetation or otherwise qualify as a "jurisdictional" wetland or non-wetland Water of the U.S., the applicant shall obtain a Streambed Alteration Agreement (SAA) and/or permit, or written waiver of the requirement for such an agreement or permit, from all resource agencies with jurisdiction over such areas (CDFW and United States Army Corps of Engineers [USACE]).



2.h

3 Methods

This analysis of potential biological resources located on the Project Site includes a review of available background information in and around the vicinity of the Project Site and completion of a field survey.

3.1 Literature Review

Prior to conducting field surveys, MIG biologists reviewed available background information pertaining to the biological resources in and around the vicinity of the Project Site. Available literature and resource mapping reviewed include the occurrence records for special-status species and sensitive natural communities as listed below:

- CDFW CNDDB (2017) record search of the Sunnymead and surrounding USGS 7.5-Minute Quadrangles
- CNPS Online Inventory (CNPS 2017)
- Soil Survey Staff, Natural Resource Conservation Service (NRCS), United States Department of Agricultural (USDA) (Soil Survey Staff 2017)
- State & Federally Listed Endangered & Threatened Animals of California (CDFW 2017a)
- State and Federally Listed Endangered, Threatened, and Rare Plants of California (CDFW 2017b)
- CDFW Natural Communities List (CDFW 2010)
- US Fish & Wildlife Service (USFWS) National Wetlands Inventory (USFWS 2017a)
- USFWS, Carlsbad Office, Threatened and Endangered Species (USFWS 2017b)
- Jepson Manual: Vascular Plants of California, Second Edition (Baldwin et al. 2012)
- Riverside County Integrated Project (RCIP) Conservation Report Summary Generator (MSHCP RCIP 2017)
- Western Riverside County MHSCP Burrowing Owl Survey Instructions (MSHCP 2006)

3.2 Field Surveys

A field survey was conducted by MIG biologists Jonathan Campbell, PhD, and Hayden Agnew-Wieland on March 8, 2017. The field survey was conducted to perform an MSHCP burrowing owl habitat assessment survey, assess the existing conditions of the Project Site, record observed plant and wildlife species, characterize and delineate vegetation communities and associated wildlife habitats, and evaluate the potential for these habitats to support special-status species and sensitive habitats.

3.2.1 Plant Communities

During the field survey, MIG biologists traversed the entire Project Site by foot and evaluated the suitability of onsite vegetation communities to support special status species documented in the vicinity of Project Site. Plant communities were preliminarily mapped with the aid of an aerial photograph using the MSHCP uncollapsed vegetation community classification system and Holland (1986)/CDFW (2010) vegetation community classification systems when appropriate. When a vegetation community could not be accurately characterized using this information, an updated community classification code was developed to more accurately represent onsite habitat types.

3.2.2 Sensitive Plant Species

Sensitive plant species include those (1) listed, proposed for listing, or candidates for listing as threatened or endangered by the USFWS under the FESA; (2) listed or proposed for listing as rare, threatened, or endangered by the CDFW under the CESA; (3) occurring on List 1A, List 1B, List 2, List 3,



or List 4 of the CNPS Inventory; and (4) occurring within an MSHCP narrow endemic and/or criteria area species Survey Area (Section 6.1.2 and 6.1.3).

3.2.3 Sensitive Wildlife Species

Sensitive wildlife species include those (1) listed, proposed for listing or candidates for listing as threatened or endangered by the USFWS or NOAA Fisheries under FESA; (2) listed or proposed for listing as rare, threatened, endangered, fully protected, or species of special concern by the CDFW under CESA; and (3) birds protected by the USFWS under the MTBA and/or by the CDFW under Fish and Game Code Sections 3503 and 3513.

In accordance with the MSHCP Burrowing Owl Survey Instructions (MSHCP 2006), the burrowing owl survey protocol consists of two steps: Step I – Habitat Assessment and Step II – Locating Burrows and Burrowing Owls. Step II is comprised of two parts, Part A: Focused Burrow Surveys and Part B: Focused Burrowing Owl Surveys. In addition to complying with MSHCP survey guidelines, the protocol was augmented to ensure compliance with the CDFW updated Staff Report on Burrowing Owl Mitigation breeding season survey guidelines (CDFW 2012). As required by the City of Moreno Valley Pre-Project Review Staff Committee Meeting (P16-069: P15a), the Step I - Habitat Assessment surveys consisted of a walking survey to determine if suitable habitat is present onsite. Upon arrival at the Project Site, and prior to initiating the assessment survey, surveyors used binoculars to scan all suitable habitats on and adjacent to the property, including perch locations, to ascertain owl presence. All suitable areas of the Project Site were surveyed on foot by walking slowly and methodically while recording/mapping areas that may represent suitable owl habitat onsite. Primary indicators of suitable burrowing owl habitat in western Riverside County include, but are not limited to, native and non-native grassland, interstitial grassland within shrub lands, shrub lands with low density shrub cover, golf courses, drainage ditches, earthen berms, unpaved airfields, pastureland, dairies, fallow fields, and agricultural use areas. Burrowing owls typically use burrows made by fossorial mammals, such as ground squirrels (Otospermophilus beecheyi) or badgers (Taxidea taxus), but they often utilize man-made structures, such as earthen berms, cement culverts, cement, asphalt, rock, or wood debris piles, or openings beneath cement or asphalt pavement. Burrowing owls are often found within, under, or in close proximity to man-made structures.

3.2.1 MSHCP Riparian/Riverine Resources, Vernal Pools, and Jurisdictional Resources

This report provides a general review of topographic features and habitats observed onsite that could be subject to USACE jurisdiction pursuant to Section 404 of the Clean Water Act (CWA), Regional Water Quality Control Board (RWQCB) jurisdiction pursuant to Section 401 of the CWA, and CDFW jurisdiction pursuant to Division 2, Chapter 6, Section 1600 of the Fish and Game Code. A formal jurisdictional delineation was not undertaken as part of this effort.

Habitats were also assessed to determine if MSHCP riparian/riverine resources and/or vernal pools, pursuant to section 6.1.2 of the MSHCP (2004) are present onsite. Riparian/riverine resources are those lands that contain habitat dominated by trees, shrubs, persistent emergents, or emergent mosses and lichens, which occur close to or which depend upon soil moisture from a nearby fresh water source; or areas with fresh water flow during all or a portion of the year. Vernal pools are seasonal wetlands that occur in depression areas that have wetlands indicators of all three parameters (soils, vegetation, and hydrology) during the wetter portion of the growing season but normally lack wetlands indicators of



hydrology and/or vegetation during the drier portion of the growing season (MSHCP 2004). In addition, stock ponds, ephemeral pools, and other areas of potential fairy shrimp habitat are noted, if applicable.

3.2.2 Wildlife Corridors and Urban/Wildland Interface

Providing functional habitat connectivity between natural areas is essential to sustaining healthy wildlife populations and allowing for the continued dispersal of native plant and animal species. The regional movement and migration of wildlife species has been substantially altered due to habitat fragmentation over the past century. This fragmentation is most commonly caused by development of open areas, which can result in large patches of land becoming inaccessible and forming a virtual barrier between undeveloped areas. Additional roads associated with development, although narrow, may result in barriers to smaller or less mobile wildlife species. Habitat fragmentation results in isolated islands of habitat, which affects wildlife behavior, foraging activity, reproductive patterns, immigration and emigration or dispersal capabilities, and survivability. Wildlife corridors can consist of a sequence of stepping-stones across the landscape (i.e., discontinuous areas of habitat such as isolated wetlands), continuous lineal strips of vegetation and habitat (e.g., riparian strips and ridge lines), or they may be parts of larger habitat areas selected for its known or likely importance to local wildlife.



2.h

4 Existing Conditions

The following provides a description of the soils, vegetation communities, wildlife, and wildlife movement corridors present on the Project Site.

4.1 Soils

The Web Soil Survey reports the following soils within the boundary of the Project Site, as shown on Attachment E-5, Soils Map (Soil Survey Staff, NRCS, USDA 2017):

- Greenfield sandy loam, 0 to 2 percent slopes (GyA): 0.50 ac
- Ramona sandy loam, 2 to 5 percent slopes, eroded (RaB2): 1.17 ac

4.2 Plant Communities

Natural community names and hierarchical structure follows the CDFW "List of California Terrestrial Natural Communities" or Holland (1986) classification systems, which have been refined and augmented where appropriate to better characterize the habitat types observed onsite when not addressed by the MSHCP classification system.

4.2.1 Disturbed (1.43 acres)

The majority of the Project Site receives frequent disturbance from disking (Attachment E-6, Biological Resources Map and Attachment E-7, Current Project Site Photographs). Plant species growing in these areas consist primarily of non-native, invasive species including cheeseweed (*Malva parviflora*), wild radish (*Raphanus sativus*), foxtail barley (*Hordeum murinum*), common Mediterranean grass (*Schismus barbatus*), London rocket (*Sysimbrium irio*), summer mustard (*Hirschfeldia incana*), English plantain (*Plantago lanceolata*), Russian thistle (*Salsola tragus*), red-stemmed filaree (*Erodium cicutarium*), wild oats (*Avena fatua*), cheatgrass (*Bromus tectorum*), wild lettuce (*Lactuca serriola*), Peruvian pepper tree (*Schinus molle*), tamarisk (*Tamarix ramosissima*), and Mexican palo verde (*Parkinsonia aculeata*). Native species are found occasionally throughout this community and include California fan palm (*Washingtonia filifera*), common fiddleneck (*Amsinckia intermedia*), common bedstraw (*Galium aparine*), horseweed (*Erigeron canadensis*), telegraph weed (*Heterotheca grandiflora*), and pineapple weed (*Matricaria discoidea*).

4.2.2 Paved (0.24 acres)

Portions of the eastern boundary of the Project Site are paved (Attachment E-6, Biological Resources Map and Attachment E-7, Current Project Site Photographs). Ornamental species, such as red gum (*Eucalyptus camaldulensis*), ash (Fraxinus sp.), and olive (*Olea europaea*), have been planted within these areas.

4.3 Wildlife

Wildlife species encountered onsite include ring-billed gull (*Larus delawarensis*), Anna's hummingbird (*Calypte anna*), mourning dove (*Zenaida macroura*), rock dove (*Columba livia*), house finch (*Carpodacus mexicanus*), American crow (*Corvus brachyrhynchos*), and house sparrow (*Passer domesticus*). No California ground squirrel (*Otospermophilius beecheyi*) burrows were observed in or around the Project Site.



4.4 Wildlife Corridors and Urban/Wildlands Interface

Commercial land uses border the Project Site to the east, west, and south. State Road 60 is located to the north. Therefore, the movement of wildlife species at the Project Site is substantially limited due to the habitat fragmentation caused by development and the Project Site does not serve as a continuous regional connection for wildlife species. In addition, the Project Site is outside of any species movement corridors identified by local or regional plans. The Project Site does not occur within or adjacent to an MSHCP Core, Linkage, Constrained Linkage, or Non-Contiguous Habitat Block.

MIG

Attachment: Appendix B - Biological Resource Assessment (2913 : PEN16-0113 Plot Plan)

5 Sensitive Biological Resources

A record of all sensitive biological resources observed onsite (Attachment E-3, Biological Report Summary Sheet) and a CEQA significance checklist for biological resources (Attachment E-4, Level of Significance Checklist) are provided.

5.1 Sensitive Plant Communities

No sensitive plant communities were observed on the Project Site.

5.2 Sensitive Plant Species

No sensitive plant species were observed on the Project Site. In addition, no sensitive plant species have been documented in the vicinity of the Project Site or have the potential to occur on the Project Site due to the absence of essential habitat requirements for the species, the absence of known occurrences within 5 miles of the Project Site, and/or the Project Site is outside the species known range of distribution. The MSHCP has determined that any other sensitive species potentially occurring onsite have been adequately covered (MSHCP Table 2-2 Species Considered for Conservation Under the MSHCP Since 1999, 2004).

5.3 Sensitive Wildlife Species

Although suitable burrowing owl habitat is present onsite in the disturbed plant communities, burrowing owls are not expected to occur in or around the Project Site due to the lack of suitable burrows (Attachment E-8, Burrowing Owl Survey Map). Therefore, Step II - Part B: Focused Burrowing Owl Surveys are not required.

No other special-status wildlife species were observed on the Project Site or have the potential to occur onsite due to the absence of suitable habitat.

5.4 MSHCP Riparian/Riverine Resources, Vernal Pools, and Jurisdictional Resources

Although a formal jurisdictional delineation was not undertaken as a part of this effort, onsite habitats were assessed to determine if any wetlands and/or "waters" were present onsite. No wetland or water resources subject to the jurisdiction of the USACE, RWQCB, and/or CDFW were identified on the Project Site.

Pursuant to Section 6.1.2 of the MSHCP (2004), habitats were also assessed to determine if MSHCP riparian/riverine resources and/or vernal pools were present. No MSHCP riparian/riverine resources or vernal pool were observed on the Project Site.



2.h

6 MSHCP Consistency

The purpose of this analysis is to document existing biological resources, identify general vegetation types, and assess the potential biological and regulatory constraints and potential impacts associated with the proposed development within the Project Site as outlined by the Western Riverside County MSHCP. The following sections summarize the Project Site's relationship to MSHCP compliance guidelines.

6.1 Criteria Areas

The Project Site is located within the Western Riverside County MSHCP Reche Canyon/Badlands Area Plan. The Project Site is not located within an MSHCP criteria area or area plan subunit.

6.2 Narrow Endemic Plant Species Survey Area

The Project Site does not occur within a predetermined Survey Area for narrow endemic plant species. No surveys are required.

6.3 Criteria Area Species Survey Area

The Project Site does not occur within a predetermined Survey Area for criteria area plant species. No surveys are required.

6.4 Amphibian Species Survey Area

The Project Site does not occur within a predetermined Survey Area for amphibian species. No surveys are required.

6.5 Mammal Species Survey Area

The Project Site does not occur within a predetermined Survey Area for mammal species. No surveys are required.

6.6 Burrowing Owl Survey Area

The Project Site does not occur within a predetermined Survey Area for the burrowing owl. Although suitable burrowing owl habitat is present onsite in the disturbed plant communities, burrowing owls are not expected to occur in or around the Project Site due to the lack of suitable burrows. Regardless, a 14-day pre-construction survey will be conducted prior to the initiation of construction to ensure protection for this species and compliance with the conservation goals as outlined in the MSHCP (MSHCP 2004: Section 7.2) (Mitigation Measure BIO-1).

6.7 MSHCP Riparian/Riverine Resources and Vernal Pools

No riparian resources, riverine resources, or vernal pools pursuant to Section 6.1.2 of the MSHCP were identified on the Project Site.

6.8 Urban/Wildlands Interface

The Project Site does not occur within or adjacent to an MSHCP Core, Linkage, Constrained Linkage, or Non-Contiguous Habitat Block. Therefore, an Urban/Wildland Interface analysis pursuant to Section 6.1.4 of the MSHCP is not required.



7 Environmental Impacts

This section describes potential impacts to sensitive biological resources—including special-status plants and animals, and aquatic resources—that may occur in the Project Site. Each impact discussion includes Avoidance and Minimization Measures (AMMs) that would be implemented during the project to avoid and/or reduce the potential for and/or level of impacts to each resource. With the implementation of the AMMs, all impacts to biological resources are anticipated to be reduced to less than significant pursuant to CEQA.

7.1 Thresholds of Significance

In accordance with Appendix G of the CEQA Guidelines, a project could have a significant environmental impact on biological resources if it would:

- Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS
- Have a substantial adverse effect on any sensitive natural community identified in local or regional plans, policies, or regulations, or by the CDFW or USFWS
- Have a substantial adverse effect on federally protected wetlands, as defined by Section 404 of the CWA (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrologic interruption, or other means
- Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites
- Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance
- Conflict with the provisions of an adopted Habitat Conservation Plan (HCP), Natural Community Conservation Plant (NCCP), or other approved local, regional, or state HCP

Direct "take" of a federally or state-listed species is considered a significant impact. Temporary and/or permanent habitat loss is not considered a significant impact to sensitive species (other than for listed or candidate species under the FESA and CESA) unless a significant percentage of total suitable habitat throughout the species' range is degraded or somehow made unsuitable, or areas supporting a large proportion of the species' population are substantially and adversely impacted.

Potential impacts to nesting bird species will be considered significant due to their protection under the MBTA and California fish and game code, and such impacts will need to be avoided.

A specific discussion of the thresholds of significance for the Project Site follows.

2.h

7.2 Discussion of Thresholds of Significance

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations or by the CDFW or USFWS;

No special-status plant species are anticipated to occur on the Project Site; therefore, no impact is anticipated.

Although suitable burrowing owl habitat is present onsite in the disturbed plant communities, burrowing owls are not expected to occur in or around the Project Site due to the lack of suitable burrows. Mitigation Measure BIO-1 will reduce potential impacts to less than significant levels.

Although no active nests were observed during the 2017 field surveys, there is potential for ground-, tree-, and shrub-nesting birds to establish nests in and around the Project Site in the future. Mitigation Measures BIO-2 and BIO-3 will reduce impacts to nesting birds to less than significant levels.

Mitigation Measures

- BIO-1 All project sites containing suitable burrowing owl habitat or burrows (based on Step I Habitat Assessment) whether owls were found or not, require pre-construction surveys that shall be conducted within 14 days prior to ground disturbance to avoid direct take of burrowing owls (MSHCP 2006).
- BIO-2 To avoid impacts to nesting birds, construction activities and construction noise should occur outside the avian nesting season (February 1 to September 1). If construction occurs within the avian nesting season, all suitable habitats shall be thoroughly surveyed for the presence of nests by a qualified biologist no more than 5 days prior to commencement of any soil disturbance or vegetation removal. If it is determined that the Project Site is occupied by nesting birds, Mitigation Measure BIO-3 will reduce impacts to less than significant levels.
- BIO-3 If pre-construction nesting bird surveys locate active nests, no construction-related activities shall "take" place within 300 feet of sensitive bird nests and 500 feet of raptor nests, or as determined by a qualified biologist. Protective measures (e.g., sampling) shall be required to ensure compliance with the MBTA and relevant California Fish and Game Code requirements.

b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the CDFW or USFWS;

Disturbed and paved habitats are present on the entirety of the Project Site. No sensitive natural vegetation communities or riparian habitat are present on the Project Site. Therefore, no impacts to riparian habitat or other sensitive natural vegetation communities are anticipated.

c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means;

No federally protected wetlands are located on the Project Site. Therefore, no impacts are anticipated.



d) Interfere substantially with the movement of any native resident or migratory fish and wildlife species or with established native resident or migratory wildlife corridors, or impede the use of a native wildlife nursery site;

The Project Site is primarily urban and is not located within an established wildlife movement corridor. The Project Site is not located within a known wildlife nursery site. Thus, no impacts to wildlife species, migratory corridors, and native wildlife nursery sites are anticipated.

e) Conflict with local polices or ordinances protecting biological resources, such as a tree preservation policy or ordinance; or

No impacts are anticipated.

f) Conflict with the provisions of an adopted HCP, NCCP, or other approved local, regional, or state habitat conservation plan.

The Project Site is located within the Western Riverside County MSHCP Reche Canyon/Badlands Area Plan. The Project Site is not located within an MSHCP criteria area or area plan subunit. The Project Site does not occur within a predetermined Survey Area for narrow endemic plant species, criteria area plant species, amphibian species, burrowing owl, or mammal species. No surveys are required for these species.

No riparian resources, riverine resources, or vernal pools pursuant to Section 6.1.2 of the MSHCP were identified on the Project Site. The Project Site does not occur within or adjacent to an MSHCP Core, Linkage, Constrained Linkage, or Non-Contiguous Habitat Block. Therefore, an Urban/Wildland Interface analysis pursuant to Section 6.1.4 of the MSHCP is not required.

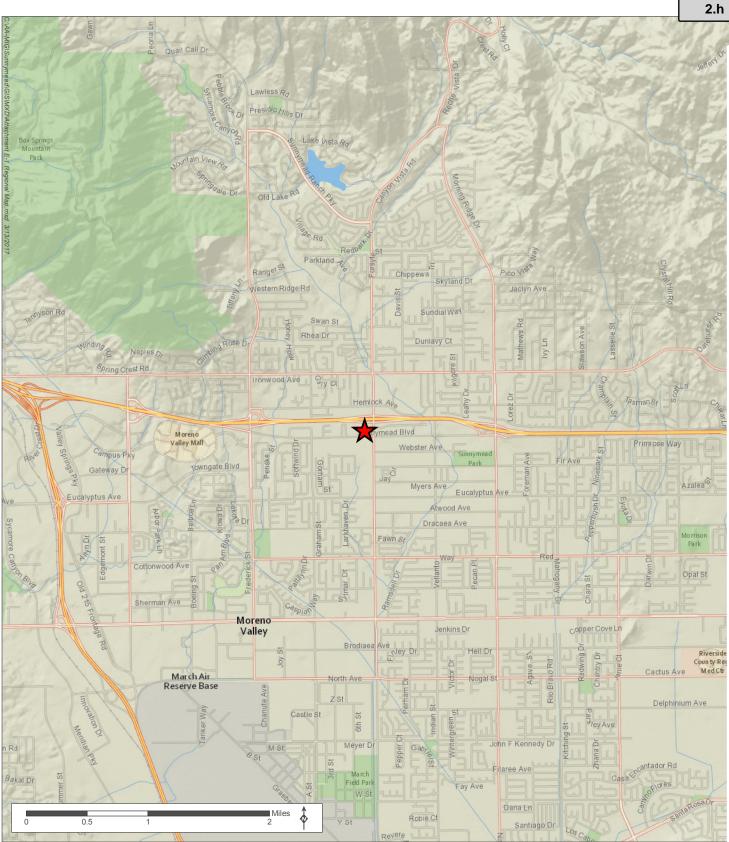
No impacts are anticipated.



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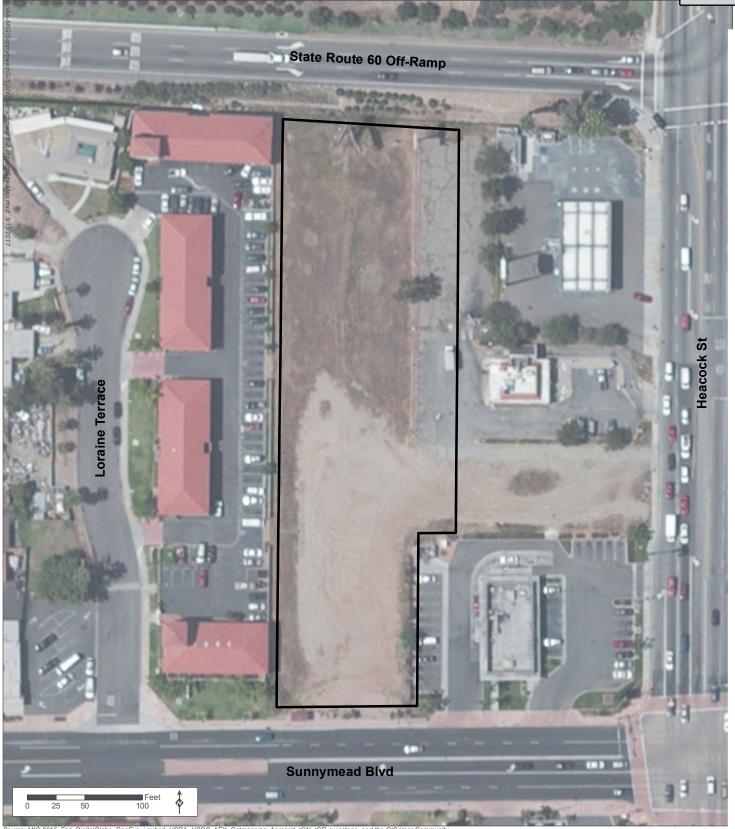




Source: MIG 2015, National Geographic, Esri, DeLorme, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp

🛨 Project Site Location





Source: MIG 2015, Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Commu

Project Site Boundary (APN: 292-160-023)

2.h



Site Address	n: Section: <u>1</u> :: <u>The Project Site</u> e Number(s):	Township: <u>3S</u> Range e is located north of Sunnymead Be PDB Nu	oulevard, and	d west of He	acock Stre
	CHECK SPECIES SURVEYED FOR	SPECIES or ENVIRONMENTAL ISSUE OF CONCERN			
	Х-НА	Arroyo Toad	Yes	No	N/A
	Х-НА	Blueline Stream(s)	Yes	No	N/A
		Coachella Valley Fringed-Toed Lizard	Yes	No	N/A
	Х-НА	Coastal California Gnatcatcher	Yes	No	N/A
	Х-НА	Riversidean Sage Scrub	Yes	No	N/A
		Delhi Sands Flower-Loving Fly	Yes	No	N/A
		Desert Pupfish	Yes	No	N/A
		Desert Slender Salamander	Yes	No	N/A
		Desert Tortoise	Yes	No	N/A
		Flat-Tailed Horned Lizard	Yes	No	N/A
	Х-НА	Least Bell's Vireo	Yes	No	N/A
	Х-НА	Oak Woodlands	Yes	No	N/A
	Х-НА	Quino Checkerspot Butterfly	Yes	No	N/A
	Х-НА	Riverside/Vernal Pool Fairy Shrimp	Yes	No	N/A
		Santa Ana River Woolystar	Yes	No	N/A
		San Bernardino Kangaroo Rat	Yes	No	N/A
		Slender Horned Spineflower	Yes	No	N/A
		Stephens' Kangaroo Rat	Yes	No	N/A
	Х-НА	Seasonal Depression	Yes	No	N/A
	Х-НА	Wetlands	Yes	No	N/A

HA - Habitat Assessment Determination

CHECK SPECIES SURVEYED FOR	SPECIES or ENVIRONMENTAL ISSUE OF CONCERN	(Circle Yes, species findin		
Х-НА	Burrowing Owl	Yes	No	N/A
Х-НА	Southwestern Willow Flycatcher	Yes	No	N/A
Х-НА	Western Yellow-billed Cuckoo	Yes	No	N/A
	Other	Yes	No	N/A
	Other	Yes	No	N/A
	Other	Yes	No	N/A
	Other	Yes	No	N/A
	Other	Yes	No	N/A
	Other	Yes	No	N/A
	Other	Yes	No	N/A
	Other	Yes	No	N/A
	Other	Yes	No	N/A

HA - Habitat Assessment Determination

Species of concern shall be any unique, rare, endangered, or threatened species. It shall include species used to delineate wetlands and riparian corridors. It shall also include any hosts, perching, or food plants used by any animals listed as rare, endangered, threatened, or candidate species by either State, or Federal regulations, or for Riverside County as listed by the California Department of Fish and Game Natural Diversity Data Base (CNDDB).

I declare under penalty of perjury that the information provided on this summary sheet is in accordance with the information provided in the biological report.

MIG

March 17, 2017 Report Date

Signature and Company Name

10(a) Permit Number (if applicable)

Permit Expiration Date

County Use Only		
Received by:	Date:	
PD-B#		

2.h

Case Number:	Lot/APN No.	292-160-023

EA Number

Wildlife & Vegetation

a) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state conservation plan?

No Impact

b) Have a substantial adverse effect, either directly or through habitat modifications, on any endangered, or threatened species, as listed in Title 14 of the California Code of Regulations (Sections 670.2 or 670.5) or in Title 50, Code of Federal Regulations (Sections 17.11 or 17.12)? **No Impact**

c) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U. S. Wildlife Service?

No Impact

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident migratory wildlife corridors, or impede the use of native wildlife nursery sites?

No Impact

e) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U. S. Fish and Wildlife Service?

No Impact

f) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

Less Than Significant with Mitigation Incorporated

g) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

No Impact

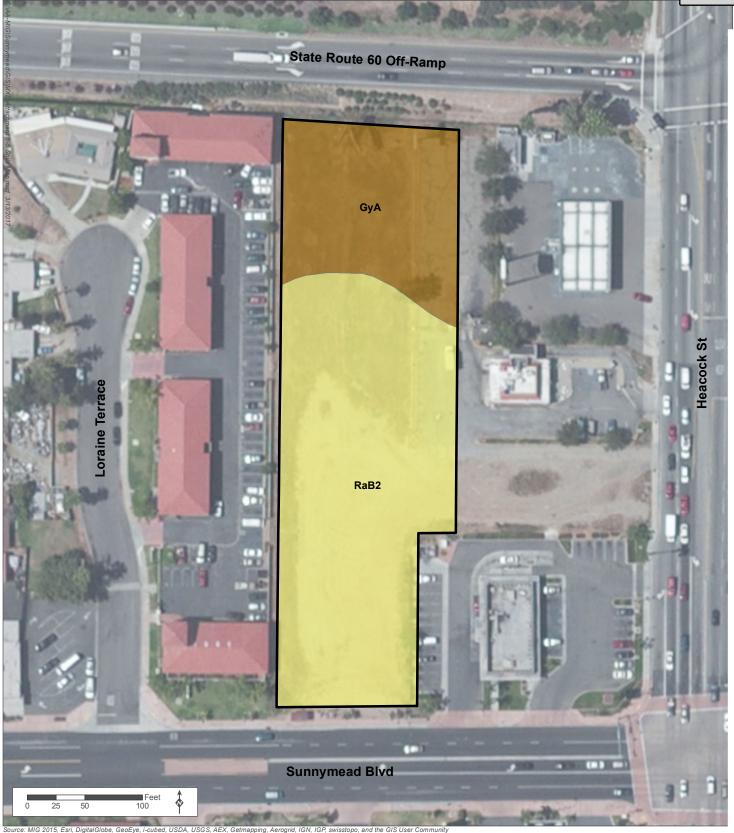
Source: CGP Fig. VI.36-VI.40

Findings of Fact:

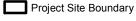
The 1.67 acre Project Site is located within the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) Reche Canyon/Badlands Area Plan. The Project Site is not located within a Criteria Area Cell or Area Plan Subunit. The Project Site does not occur within a predetermined Survey Area for criteria area plant species, narrow endemic plant species, amphibian species, mammal species, or burrowing owl. Regardless, a 14-day pre-construction burrowing owl survey will be conducted immediately prior to the initiation of any construction-related activities to ensure protection for this species and compliance with the conservation goals as outlined in the MSHCP (2006). Also, to avoid impacts to nesting birds, construction activities and construction noise should occur outside the avian nesting season (February 1 to September 1). If construction occurs within the avian nesting season, all suitable habitats shall be thoroughly surveyed for the presence of nests by a qualified biologist no more than five days prior to commencement of any soil disturbance or vegetation removal. No feature subject to the jurisdiction of the Regional Water Quality Control Board (RWQCB), California Department of Fish and Wildlife (CDFW), or US Army Corps of Engineers (USACE) were documented onsite. No MSHCP riparian or vernal pool resources were documented onsite. The Project Site does not occur within or adjacent to an MSHCP Core, Linkage, Constrained Linkage, or Non-Contiguous Habitat Block.

Proposed Miti	gation:	
To be Determined		
Monitoring Re	commended;	. 1
To be Determined	All F	Partil
Prepared By:	Constan 1.	any
		·

Date: March 17, 2017



ойне. мно 2013, E3H, Digitalolove, GeoLye, Houbed, 03DA, 0303, АЕХ, Gethiapping, Aeloghd, 16H, 16F, swisstopo, and the 613 03



Soil Types

Greenfield sandy loam, 0 to 2 percent slopes (GyA): 0.5 ac

Ramona sandy loam, 2 to 5 percent slopes, eroded (RaB2): 1.2 ac

Attachment: Appendix B - Biological Resource Assessment (2913 : PEN16-0113 Plot Plan)

2.h







Paved (PAV): 0.24 acres

2.h





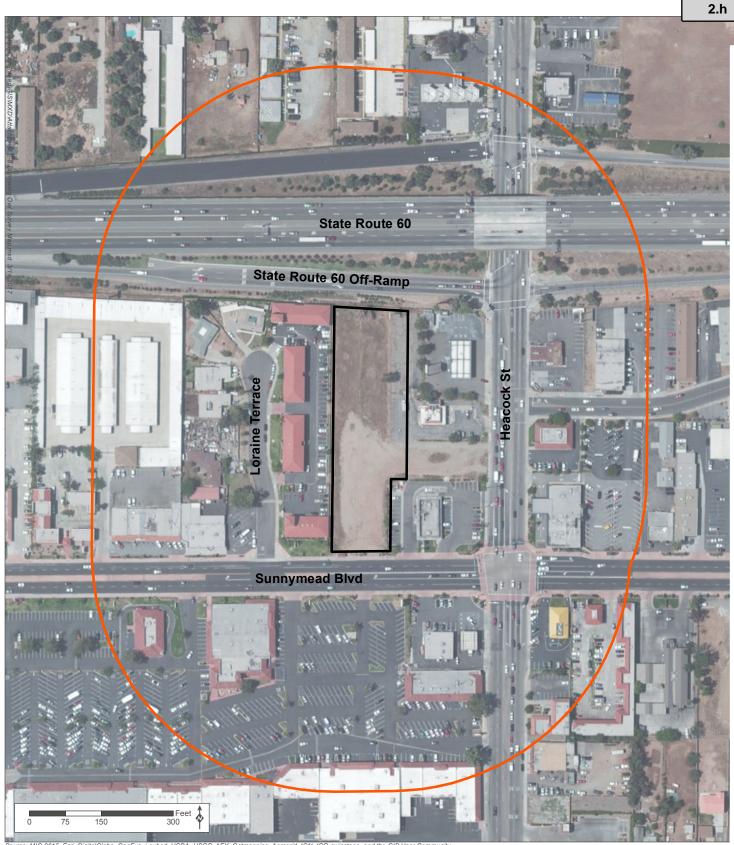
PHOTOGRAPH 1 - All unpaved areas on the Project Site have been recently disked.



PHOTOGRAPH 2 - Portions of the Project Site have been paved.

2.h





MIG 2015, Esri, DigitalGlobe, GeoEye Getmapping, Aerogrid, IGN, IGP, swi d LISDA nd the GIS User Communit

Project Site Boundary

Burrowing Owl Survey Area (500 foot buffer)

Attachment E-8 Burrowing Owl Survey Map



Appendix C Phase I Cultural Resources Technical Report

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PHASE I CULTURAL RESOURCES INVENTORY REPORT FOR APN 292-160-023 LOCATED ON SUNNYMEAD BLVD., JUST WEST OF HEACOCK STREET, CITY OF MORENO VALLEY, RIVERSIDE COUNTY, CALIFORNIA

[PAST File No. 1255]

USGS 7.5-minute Quadrangle: Sunnymead, Calif. Keywords: Negative Survey; Commercial; 1.68 acres; APN 292-160-023; Address Pending, Moreno Valley; Riverside County; T3S, R4W, Section 1; 43 pages

Prepared for:

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February 2017

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Attachment: Appendix C - Phase I Cultural Resources Technical Report (2913 : PEN16-0113 Plot Plan)

A Phase I cultural resources inventory was conducted by PAST, INC. for APN 292-160-023, a 1.68-acre property located along Sunnymead Blvd. (address pending), just west of Heacock Street in the City of Moreno Valley, Riverside County, California. At present, the subject property is vacant; however, archival research revealed that a structure once existed on the parcel from before 1939 to sometime between 1966–67. Current plans for the subject property call for the development of a 5,424-square foot fully automated car wash. The current zoning is SP204CC.

This study included: (1) obtaining a $\frac{1}{2}$ -mile radius records search from the Eastern Information Center (EIC); (2) conducting other relevant archival research including a review of historic USGS maps and aerial photographs, (3) performing an on-foot field inspection of the subject property; and (4) the preparation of this report documenting the methods and results of the investigation. For this study, Barbie Getchell is identified as the Principal Investigator, while John E. Atwood served as the Project Archaeologist. A statement of qualifications for each of the two PAST, INC. investigators is attached to the end of this report.

In summary, the EIC records search revealed that: (1) the subject property was included within the study area of an earlier investigation entitled Cultural Resources Inventory for the City of Moreno Valley, Riverside County, California (McCarthy and Wilke 1987); (2) no cultural resources have been recorded within the boundaries of the subject property; (3) there are five reports on file for previous investigations conducted within a 1/2-mile radius of the subject property; (4) there has been three cultural resource properties (P-33-007285, P-33-017202, and P-33-017203 [all single-family residences]) recorded within the search radius; however, none of these properties involve the project site; (5) no properties are listed on the National Register of Historic Places or the Office of Historic Preservation (OHP), Archaeological Determinations of Eligibility within the boundaries of the subject parcel; and (9) the OHP Directory of Properties, in the Historic Property Data File, lists one property (P-33-007285) that appears eligible for inclusion on the National Register of Historic Places through survey evaluation.

A review of historic quadrangles from the USGS and U.S. Department of the Army, Corps of Engineers revealed the presence of a structure on the subject property on 1942 and 1953 maps. Of note, electronic plotting of the parcel on the 1901 edition of the USGS Elsinore, Calif. 1:125,000 topographic quadrangle places the subject property at the terminus of an intermittent stream originating from the Pigeon Pass Valley, where a series of small ponds are depicted (a seasonal marsh?); however, further analysis indicated that there may be a mapping or projection error with this quadrangle as the aforementioned feature is depicted on the east side of the forerunner of Heacock Street (the subject property is located to the west of this street). A historic aerial photo from 1966 shows the presence of the structure along Sunnymead Blvd. on the parcel as noted on the 1942 and 1953 quadrangles; however, the 1967 photo shows that the structure had been removed or demolished (note: the 1967 edition of the USGS Sunnymead, Calif. 7.5' quadrangle shows the area within an "Built-up area" and the structure is no longer depicted as are others in the immediate area).

An on-foot survey of the subject property was conducted on February 10, 2017. In summary, the inspection found the parcel to be a flat vacant lot that had been lightly graded for vegetation removal in the past (although seasonal weedy annuals covered most of the property at the time of the inspection). While vacant of any structures, several modern features were noted on or adjacent to the subject property. These features included a covered bus stop, a drainage system, underground utilities, and a dual-facing billboard. A rectangular-shaped asphalt pad is present in

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the northeast corner of the parcel, which is currently used a small homeless encampment, where an abundant amount of neoteric refuse was noted (a moderate amount of dumped trash was also noted elsewhere on the parcel). No prehistoric or early historic materials or features were noted on the surface of the subject property during the survey.

Since no prehistoric or extant early historic resources have been noted within the boundaries of APN 292-160-023, the proposed development of a 5,424-square foot fully automated car wash on this parcel will not have a direct impact any known cultural resources. While the EIC noted the presence of three historic properties within the ¹/₂-mile search radius, none of these are located on or adjacent to the subject property; therefore, the proposed project will not have any indirect impacts to these resources. As such, no further cultural resource investigations or analysis of APN 292-160-023 are recommended prior to the proposed development of the parcel. Following standard requirements, any development permits associated with this parcel should be conditioned that in the event of any unanticipated discoveries, work around the find must be halted until the resource can be properly evaluated and mitigated. Likewise, if human remains are encountered, the procedures described in Section 7050.5 of the California State Health and Safety Code must be followed. More specific procedures regarding the discovery of inadvertent archaeological finds and human remains are detailed in this report.

I. INTRODUCTION

Pursuant to a request from Bijan Shahmoradi of P&N Construction, Tri-Millennium Properties, PAST, INC. conducted a Phase I cultural resources inventory of APN 292-160-023; a 1.68-acre property located along Sunnymead Blvd. (address pending), just west of Heacock Street in the City of Moreno Valley, Riverside County, California (subject property or project site). Attached to the end of this report is Figure 1, a composite of portions of the 1967 (photorevised 1980) editions of the USGS Riverside East and Sunnymead, Calif. 7.5-minute series topographic quadrangles showing the size, shape, and location of the subject property (note: Sunnymead Blvd. is noted as Grevillea Ave. on both USGS quadrangles). Current plans for the vacant subject property call for the development of a 5,424-square foot fully automated car wash with a free vacuum stall (cf. Figure 2).

This Phase I cultural resources study included: (1) obtaining a complete $\frac{1}{2}$ -mile radius records search for the subject property from the Eastern Information Center at the University of California Riverside (EIC); (2) reviewing other revenant background information about the project site such as historic USGS maps and aerial photographs; (3) performing an on-foot examination of the surface of APN 292-160-023; and (4) the preparation of this final technical report, which documents the findings of the study and makes a set of recommendations regarding additional archaeological investigations as required. Overall, this report was prepared following the California Office of Historic Preservation's Archaeological Resource Management Reports: Recommended Contents and Format (1990). For this investigation conducted by PAST, INC., Barbie Getchell is identified as the Principal Investigator and John E. Atwood served as the Project Archaeologist (cf. Appendix A. Statement of Qualifications).

In summary, this report presents some background information on the natural and cultural setting of the project area (including the results of the EIC record search as well as other archival research); describes the methods used during the field inspection of the subject property; reports on the results of the field investigation; provides a discussion of the study's findings; and conclude with a set of recommendations. Attached to the end of this report is Figure 1, a composite of portions of the 1967 (photorevised 1980) USGS Riverside East and Sunnymead, Calif. 7.5-minute series topographic quadrangles showing the location and shape of the subject property; Figure 2, a site plan, prepared by Scott & Associates (Architect) of Visalia, depicting the proposed development; Figure 3, a portion of the 1901 edition of the USGS Elsinore

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1:125,000-series topographic map showing the location of a nearby ponding area at the terminus of an intermittent stream originating from Pigeon Pass Valley; Figure 4, a portion of the 1942 edition of the U.S. Department of the Army, Corps of Engineers Perris, California 15-minute series topographic quadrangle noting the location of a structure that once existed on the subject property; Figure 5, a historic aerial photo from HistoricAerials.com showing the structure that once existed on the subject property (removed circa 1966–67); Appendix A, a statement of qualifications for Barbie Getchell and John E. Atwood of PAST, INC.; Appendix B, the Eastern Information Center (EIC) records search results letter and report list; Appendix C, AB 52 tribal consultation letters received by the City of Moreno Valley; and Appendix D. two photographs taken during the inspection of the subject property.

II. BACKGROUND

A. Natural Setting

Geographically, Moreno Valley is located within the Perris Upland, which is part of the northern Peninsular Range Province, at 33°55'35" North, 117°13'42" West. The area is characterized by small broad valleys that are divided by mountain ranges and smaller hills. One of the most visible geographical features in Moreno Valley is Box Springs Mountain at the northwest end of the city. To the north are the San Bernardino Valley and Mountains; to the south are Lake Perris and the San Jacinto Mountains; to the east is San Gorgonio Pass and the Coachella Valley; and to the west is the neighboring City of Riverside. More specifically, the 1.68-acre subject property is located just south of State Route 60 along Sunnymead Blvd. (address pending), just east of Loraine Terrace and west of Heacock Street in the City of Moreno Valley. Figure 1, attached to the end of this report, is a composite of the 1967 (photorevised 1980) editions of the USGS Riverside East and Sunnymead, Calif. 7.5-minute topographic series quadrangles showing the location, size, and shape of the project site (note: both USGS quadrangles still label Sunnymead Blvd. as "Grevillea Ave."). APN 292-160-023 is currently zoned as SP 204 CC for general commercial land use. Elevations on the subject property range from about 1,640 feet along the northern boundary to about 1,636 feet along Sunnymead Blvd.

Geologically, the subject property is in an area composed of very old alluvial fan deposits (Qvof). These early Pleistocene deposits are described as "mostly well- dissected, well-indurated, reddish-brown sand deposits, containing minor gravel. Commonly contains duripans and locally silcretes. Forms widespread deposits north and south of Moreno Valley, flanking bedrock areas. Deposits on older erosion surfaces lack diagnostic features, and may or may not be alluvial fan deposits" (Morton and Matti 2001). According to the 1901 edition of the USGS Elsinore, Calif. 1:125,000-series topographic quadrangle (surveyed in 1897–98), the nearest natural water resource to the subject property was located about 35 meters (115 feet) to the northeast at the terminus of an intermittent stream flowing through the Pigeon Pass Valley to the north and another intermittent stream from the northeast. At the terminus of this stream, the map (ibid.) depicts a series of small ponds (perhaps, a marshy area? [note: there is no single document that describes all the symbols used on early historic maps produced by the USGS and it is possible that some unusual symbols are not in any published document]). Subsequently, water resources in the area has been modified by modern features such percolation basins, the development of Poorman Reservoir, etc.

Moreno Valley has a mild semi-arid climate (Köppen *BSh*), with Mediterranean characteristics, where summer temperatures average in the low to mid 90s (although many days reach over 100° Fahrenheit), and winter high temperatures average about 68° (average lows range in the mid 40s). Average precipitation in the area is measured as 323.8 millimeters (12.75-inches). According to (McCarthy and Wilke 1987:3), "the vegetation of much of the foothills and most of the valley has been disturbed by dry faming agriculture. In late prehistoric times, the vegetation probably consisted of at least three plant communities (Munz 1974): Coastal Sage Scrub, Valley Grassland, and Freshwater Marsh. Each of these plant communities offered numerous plant resources that were utilized by Native Americans." Fauna resources exploited by the people in this area included deer, rabbit, antelope, nice, rats, mountain sheep, reptiles, insects, larvae, fish, quail, doves, ducks, and roadrunners (Bean 1978:Table 1. Environment).

B. Cultural Setting

1. Prehistoric

Per the *Handbook of North American Indians, Volume 8 California* (Heizer 1978), the Moreno Valley area falls within the territory historically occupied by the Cahuilla people.

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The Cahuilla occupied most of the area, from the summit of the San Bernardino Mountains in the north to Borrego Springs and the Chocolate Mountains in the south, a portion of the Colorado Desert west of Orocopia Mountain to the east, and the San Jacinto Plain near Riverside, and the eastern slopes of Palomar Mountain to the west (fig. 1)...

The Cahuilla area, located near the geographic center of southern California, was bisected by a major trade route, the Cocopa-Maricopa Trail, and was at the periphery of two others, the ones labeled Santa Fe and Yuman. Natural boundaries such as the Colorado Desert separated the Cahuilla from the Mohave, Halchidoma, Ipai, and Tipai; the mountain, hills, and plains separated them from the Luiseño, Serrano, and Gabrielino.

These peoples interacted regularly by intermarriage, trade, ritual, and war. The Cahuilla shared a common tradition with the Gabrielino and other Takic speakers, such as the Serrano and Luiseño. Of these, the Gabrielino and Serrano were the most intensively involved (Bean 1972:69; Kroeber 1925: 578-580) [ibid.]

As noted rather succinctly in a historical/archaeological resources report for the Heacock Street Road-Widening Project in the City of Moreno Valley (Smallwood, et al. 2008):

It is widely acknowledged that human occupation in what is now the State of California began 8,000-12,000 years ago. In attempting to describe and understand the cultural processes that occurred in the ensuing years,

archaeologists have developed a number of chronological frameworks...Unfortunately, none of these chronological frameworks has been widely accepted, and not has been developed specifically for the so-called Inland Empire, the nearest ones being for the Colorado Desert and Peninsular Ranges area (Warren 1984) and for the Mojave Desert (Warren and Crabtree 1986).

...most archaeologists follow tend to follow a chronology adapted form a scheme developed by William J. Wallace in 1955 and modified by others (Wallace 1955, 1978; Warren 1968; Chartkoff and Chartkoff 1984; Moratto 1984). Although the beginning and ending dates of the different horizons or periods may vary, the general framework of the prehistory in the region under this chronology consists of the following four periods:

- Early Hunting Stage (ca. 10,000 BC–6,000 BC), which was characterized by human reliance on big game animals, as evidenced by large, archaic-style projectile points and the relative lack of plant-processing artifacts;
- Millingstone Horizon (ca. 6,000 BC–AD 1,000), when plant foods and small game animals came to the forefront of subsistence strategy, and from which a large number of millingstones, especially well-made, deep-basin metates, were left;
- Late Prehistoric Period (ca. AD 1,000–1,500), during which a more complex social organization, a more diversified subsistence base—and regional cultures and tribal territories began to develop;
- Protohistoric Period (ca. AD 1,500–1700s), which ushered in long-distance contact with Europeans, and thereby lead to the Historic Period. [ibid.: 4]

Within the boundaries of the City of Moreno Valley, nearly 200 prehistoric sites discovered. Most of these sites consist of milling stations and rock art (both pictographs and petroglyphs) are present. Boulders containing pecked cupules are also common.

2. Historic

Early Spanish scouts exploring the region encountered Native American people who lived in semi-sedentary villages, which the population lived in the winter and spread out in family groups during the spring and summer months to harvest plants and seeds. When California became a state in 1850, Americans began to move into the region when the Tucson to San Francisco route of the Butterfield Overland Mail Company passed through the area. But, for the most part, the Moreno Valley area reminded as unclaimed land until the 1870, when a large tract of 13,471 acres was purchased from the United States government; from which, the 11,560-acre Alessandro Tract acquired.

In a book entitled California Place Names: The Origin and Etymology of Current Geographical Names (Gudde and Bright 1998), the following information is provided for the place names "Moreno" and "Sunnymead":

Moreno (mô rē' no, mə rē' nō) [Riverside Co.]. When Frank E. Brown declined to have his name used for the town that he and E. C. Judson laid out in 1881-82, the Spanish word for 'brown' was substituted (Co. Hist.: Riverside 1912:170). In 1984, the communities of Moreno, Sunnymead, and Edgemont incorporated as the City of Moreno Valley (Gunther 1984). [ibid.:248]

Sunnymead [Riverside Co.]. The Sunnymead Orchard Tract was laid out and named in 1913; it is now part of the City of Moreno Valley (Brigandi). [ibid.:379]

In the early 1880s, F. E. Brown's Bear Valley Land and Water Company began collecting and pumping water from the San Bernardino Mountains into the region. This development created a brief boom that turned to a bust during a period of drought in the late 1890s. In the early 1910s, the Moreno Valley area began a slow economic recovery and a 1,100-acre portion of the Alessandro Tract was re- subdivided as the Sunnymead Orchard Tract. In 1918, the United States Army Air Service (forerunner to the United States Air Force) constructed March Field as part of its World War I expansion to train fighter pilots. Although March Field was closed in 1922, it was reopened in 1927 and directly lead to the development and growth of the region. In 1996, March Air Force Base became March Air Reserve Base under the Air Force Reserve Command. Another notable development in the area was the Riverside International Raceway (now the site of the Moreno Valley Mall), which operated from 1957 to 1989.

In the 1980s the Moreno Valley experienced explosive growth, which signaled a major transition from rural farming to urbanization. Residential construction escalated, and families from the nearby major metropolises migrated in large numbers seeking affordable housing opportunities. In a little more than a decade, the region's population more than doubled from 18,871 residents in 1970 to 49,702 in 1984. Although attempts failed in 1968 and 1983, a measure to form the City of Moreno Valley, which united the communities of Edgemont, Sunnymead, and Moreno, was approved by voters in 1984. Today, the city is home to about 200,000 people and, in recent years, seen a rise in the number of corporate industrial and business parks.

C. EIC Records Search Results

A ¹/₂-mile radius records search for APN 292-160-023 was prepared on January 30, 2017, by Leslie Yee, Information Officer, of the Eastern Information Center at the University of California, Riverside. In summary, the records search revealed: (1) five cultural studies have been conducted within the search radius; one of which included the subject property; (2) three cultural resources properties have been recorded (P-33-007285, P-33-017202, and P-33-017203); however, none of these properties involve the project site; (3) no properties are listed on the National Register of Historic Places or the Office of Historic Preservation (OHP), Archaeological Determinations of Eligibility within the boundaries of the subject parcel and (4) the OHP Directory of Properties, in the Historic Property Data File, lists one property (P-33-007285) that appears eligible for inclusion on the National Register of Historic Places through survey evaluation. PDF copies of these material as well as eight additional studies that provide overviews of cultural resources in

the general project vicinity were provided on CD-R media along with the records search results letter and Report List (cf. Appendix B).

As noted above, the subject property was included within the boundaries of a previous study; viz. Cultural Resources Inventory for the City of Moreno Valley, Riverside County, California (McCarthy and Wilke 1987). Per McCarthy and Wilke (1987:2), "the purpose of this report is to identify cultural resources (exclusive of the built environment sites) within the study area, to provide the City with an inventory of archaeological sites, and to evaluate the significance of these sites and identify archaeologically sensitive areas." Although this inventory noted the presence of 168 total site within the study area, the maps presented in the report (ibid.) classified the subject property as being "urban" and no archaeological resources were noted.

Information on the three previously recorded sites (all historic structures) located within a ¹/₂-mile radius of the subject property is presented in Table 1, below.

Site Number (Recorded by and date)	Description
P-33-007285 (Warner 1983)	Vernacular wood frame, square in plan, main house with small house in back located on Hemlock Ave. (estimated construction date: circa 1910). Significance: "the house is unusual for its use of the hipped gable and very unique in its use of a single 'hipped gablet'." This site appears eligible for inclusion on the National Register of Historic Places (see above).
P-33-017202 (Smallwood 2008a)	One-story, wood-frame, residence of vernacular design, square in plan with medium-pitched hip roof and a detached garage located on Heacock Street (estimated construction date: circa 1956). Significance: "Post-WWII residential development".
P-33-017203 (Smallwood 2008b)	One-story, ranch-style, wood-frame residence, irregular in plan, with a medium-pitched cross-gabled roof and detached garage (estimated construction date: circa 1959). Significance: "Post-WWII residential development".

Table 1. Recorded sites within a ¹/₂-mile radius of the subject property

D. AB 52 Consultation

Tribal consultation, pursuant to Assembly Bill 52 (AB 52), for the proposed project had begun by the City of Moreno Valley, Community Development Department prior to the initiation of this

Phase I cultural resources inventory. Copies of letters from the Agua Caliente Band of Cahuilla Indians (Harvey 2016), Soboba Band of Luiseño Indians (Ontiveros 2016), and Temecula Band of Luiseño Mission Indians, Pechanga Cultural Resources (Ozdil 2016) were supplied to PAST, INC. for review (cf. Appendix C).

Of note, the Agua Caliente Band of Cahuilla Indians letter (Harvey 2016) requested the following:

The project area is not located within the boundaries of the ACBCI Reservation. However, it is within the Tribe's Traditional Use Area (TUA). For this reason, the ACBCI THPO requests the following:

- A cultural resource inventory of the project area by a qualified archaeologist prior to any development activities in this area.
- Copies of any cultural resource documentation (report and site records) generated in connection with this project.
- A copy of the records search with associated survey reports and site records from the information center. [ibid.]

Regarding the ACBCI request for a complete copy of the EIC records search ("with associated survey reports and site records from the information center") for this inventory, this information cannot be provided by PAST, INC. as the results contain confidential information that is protected by law and tied directly to our unique CHRIS Access and Use Agreement. As stated in the EIC records search letter prepared for the current investigation by Leslie Yee, "confidential information provided with this records search regarding the location of your project area should not be included in reports addressing the project area." (cf. Appendix B). Although the confidential nature of archaeological records is well-known, PAST, INC. suggests that the City of Moreno Valley refer the ACBCI directly to the Office of Historic Preservation and the EIC for additional information about confidential records and access to this data.

The Soboba Band of Luiseño Indian letter acknowledges receipt of the City's notification un Assembly Bill 52 and requested the initiation of formal consultation with the City of Moreno Valley.

In the letter from Ebro Ozdil, Planning Specialist of the Temecula Band of Luiseño Mission Indians, the following information is related:

The Pechanga Tribe asserts that the Project area is part of Payómkawichum (Luiseño) and therefore the Tribe's, aboriginal territory as evidenced by the existence of Payómkawichum cultural resources, named places, tóota yixélval (rock art, pictographs, petroglyphs), and an extensive Payómkawichum artifact record in the vicinity of the Project. This culturally sensitive area is affliated with the Pechanga Band of Luiseño Indians because of the Tribe's cultural ties to this area as well as our extensive history with the City and other projects in the area. During our consultation we will provide more specific, confidential information on potential TCRs that may be impacted by the proposed project. [ibid.]

E. Historic Map Research

As part of the relevant background research for this study, the following historic maps found on the USGS Historical Topographic Map Explorer website (http://historicalmaps.arcgis.com/usgs/) were reviewed (note: copies of these maps are on file with PAST, INC. under Accession Number 1255).

- 1901 edition of the USGS Elsinore, Calif. 1:125,000-series Quadrangle
- 1942 edition of the United States Department of the Army, Corps of Engineers Perris, • Calif. 15' Quadrangle
- 1953 edition of the USGS Sunnymead, Calif. 7.5' Quadrangle •
- 1967 edition of the USGS Sunnymead, Calif. 7.5' Quadrangle
- 1973 edition of the USGS Sunnymead, Calif. 7.5' Quadrangle
- 1980 edition of the USGS Sunnymead, Calif. 7.5' Quadrangle

An interesting aspect to the USGS Historical Topographic Map Explorer website allows electronic overlays of all available map editions for any locale. In reference to the 1901 edition of the USGS Elsinore, Calif. 1:125,000 series topographic quadrangle, the location of the subject property is shown adjacent to the east side of an unnamed street (the forerunner of Heacock Street), in an area where an intermittent stream channel terminates from the north where several small ponds are depicted (a small seasonal marsh?). This placement of the subject property and these water features are also noted on historic topographic maps on the internet site www.HistoricAerials.com. According to Smallwood et al. (2008:9), "by the late 1890s, the forerunner of Heacock Street had been constructed along its present course, …" Since the subject property is located west of Heacock Street, it can be assumed that the electronic plotting of the parcel on the 1901 Quadrangle can be attributed to a projection induced error or a triangulation error on the original map (verification of the triangulation was also performed by PAST, INC. with other maps, which confirmed the plotting deviation) (cf. Figure 3).

The 1942 edition of the United States Department of the Army, Corps of Engineers Perris, Calif, 15-minute series topographic quadrangle shows the development of Sunnymead Blvd. (marked State Route 60) and a structure on the subject property adjacent to Sunnymead Blvd. Just north of the structure, within the boundaries of the subject property, the area is noted as land used for orchards (cf. Figure 4). The 1953 USGS Sunnymead, Calif. 7.5-minute series topographic quadrangle still depicts the structure on the parcel; however, the northern portion of the property no longer is marked as being used as orchard lands. The 1967 edition of the USGS Sunnymead, Calif. 7.5' series topographic quadrangle depicts the north side of Grevillea Avenue (Sunnymead Blvd.) as a "Built-up area" and the structure on the subject property is no longer shown (although other structures in the vicinity are). Other developments on this map near the subject property include the development of State Route 60 to the north, a Post Office to the east, and the development of Loraine Terrace and Fire Station to the west. The 1973 edition of the USGS Sunnymead, Calif. 7.5' series topographic quadrangle is almost indistinguishable with the 1967 edition for the immediate area; the 1980 edition of the USGS quadrangle shows an increase in the number of structures in the area.

F. Historic Aerial Photo Research

A search of www.HistoricAerials.com revealed aerial photos from 1966, 1967, 1978, 1997, 2002, 2005, 2009, 2010, and 2012 that included the subject property. The 1966 photo shows the small

structure on the subject property, adjacent to Sunnymead Blvd., as noted on the 1942 edition of the USGS Perris, Calif, 30' series topographic quadrangle (cf. Figure 4) and the 1953 edition of the USGS Sunnymead, Calif. 7.5' series topographic quadrangle. The structure appears to be surrounded on the south and west sides by large bushes or trees with a cleared vacant area on the east side of the structure (a parking area?), which is bound by a line of trees further to the east. The northern portion of parcel is vacant and dominated by low-lying wild vegetation. Other structures in the area are also noted along Heacock Street (cf. Figure 5). The 1967 photo shows that the structure and surrounding trees had be removed from the subject property. The 1978 photo continues to show the subject property as vacant land with the structure at the corner of Heacock Street and Sunnymead Blvd. having been removed. This photo also depicts the development of a large shopping center on the south side of Sunnymead Blvd. as well as nearby developments along Loraine Terrace to the west. The 1997 photo shows the subject property as a vacant lot clear of vegetation; however, the development of the Jack In The Box fast food restaurant is noted at the northwest corner of Heacock Street and Sunnymead Blvd. (further developments along Loraine Terrace are also depicted). This photo also shows a vacant parcel of land on Heacock Street, north of the Jack In The Box restaurant, that connects with the subject property. The 2002, 2005, 2009, 2010, and 2012 photos appear similar to the 1997 photo; although vegetative growth in the north portion of the subject property is noted in all but the 2012 photo.

III. METHODS

The field inspection of APN 292-160-023 was conducted by Project Archaeologist John E. Atwood of PAST, INC., accompanied by amateur archaeologist Mike Simpson, on February 10, 2017. Overall, the survey was conducted by walking a series of 5-meter north–south transects back and forth across the subject property. During the survey, field notes were written down to document observations made on the general condition of the parcel, minor developments, current use, and the abundance of neoteric refuse present on the property. In addition to the field notes, 69 digital photographs (NEF [Raw] and JPG formats) were taken (two of which appear in Appendix D of this report). Both the field notes and photographs were referred to during the production of this report and will remain on-file with the Encino office of PAST, INC. under File No. 1255. In addition to submitting hard copies of this report to Mr. Bijan Shahmoradi of P&N Construction, Tri- Millennium Properties, an electronic version (PDF file) of this report will be delivered to the EIC for the state's archival records.

IV. REPORT OF FINDINGS

At present, the subject property can be characterized as a relatively flat vacant irregular-shaped (nearly compound rectangular) commercial lot on the north side of Sunnymead Blvd. (address pending), about 61 meters (200 feet) west of Heacock Street (cf. Figure 1). While the center portion of the parcel had been recently scraped, and was devoid of vegetation, nearly all other areas of the property contained a moderate growth of wild weedy annuals resulting from the recent winter rainfall (cf. Appendix D, Photo 1). Ground surface visibility in the cleared area was considered excellent (nearly 100%), except for some water ponding, while the remainder of the main portion of the property was obscured by the weedy vegetation (ground surface visibility in this area was considered quite poor (<20%). The northeastern rectangular portion of the property is covered by asphalt pavement, which afforded no ground surface visibility.

Despite the generally poor ground surface visibility conditions throughout the subject property, several modern features and disturbances were noted; along with a moderate amount of neoteric refuse. Along Sunnymead Blvd., there is a covered bus stop, near which, an underground electrical line was noted as well as E.M.W.D. sewer cover. At the southwest corner, there is drainage feature consisting of a concrete reinforced structure with open steel pipes. Near the center of the property, along Sunnymead Blvd., a large Coldwell Banker Commercial "For Sale" sign was present, with an attached "Private Property" sign. In the southeast corner, an irrigation control valve box was noted. The eastern boundary of the parcel, adjacent to the Jack In The Box restaurant, is delineated by a chain link fence with privacy slats. At the base of this fence, within the subject property, flags and painted markings noting the route of an underground Frontier telephone cable. The western end of the property is located adjacent to several automobile-related businesses along Loraine Terrace and is separated by a light beige-colored stucco block wall. Within the center portion of the property, ground asphalt pavement had been deposited on the parcel as well as a chunk of concrete. Neoteric refuse in this portion of the was considered moderate with sporadic finds of dumped electronics, toys, a shock absorber, etc. as well as other spillage from a homeless encampment in the northeast corner of the property (see below). At the north end of the property, which is lined by a decaying chain link fence, there is another Coldwell Banker Commercial sign as well as a large dual facing metal billboard (visible from State Route 60).

As noted above, the northeast rectangular corner of the subject property is composed an asphalt pad adjacent to the bordering restaurant and gas station along Heacock Street. The asphalt pad contains white metal barrier poles in the southern portion and large green utility box marked No. 12435, which is probably associated with the parking lot lights associated with the adjacent "World Famous Jack's Junior Burger restaurant to the east. Recent trash is abundant in this area as this pad is currently used as a homeless encampment (cf. Appendix D, Photo 2). Refuse in this area included, but was not limited to clothing, tarps, metal food cans, glass and plastic containers, carpet fragments, pieces of metal and wood, mattress pads, paper goods, etc. At the time of the inspection, the surveyors encountered two residents of the encampment, who promised to 'clean-

Overall, however, no evidence of prehistoric materials or features were noted on the subject property during the inspection. Likewise, early historic resources were not encountered and no evidence of the structure that once existed on the parcel from the early 1940s through the mid-1960s was discovered. The only cultural materials noted consisted of neoteric refuse as well as the modern features described above.

V. DISCUSSION

up the area for us."

As described above, the current inspection of APN 292-160-023 did not result in the discovery of any prehistoric or early historic resources. According the EIC records search (cf. Appendix B), the subject property was also included within the project area of an earlier study by McCarthy and Wilke (1987), where no cultural resources were noted on the parcel. Despite the lack of any prehistoric materials or features, historic maps and aerial photos show that a structure had been developed on the parcel 1939. According to historic aerial photos, the structure was demolished sometime between 1966–67. Since that time, the subject property has remained as a relatively vacant lot (some modern features such a bus stop, billboard signs, and the placement of underground utilities were noted, however, during the inspection). Today, the northeastern portion of the parcel is used as homeless encampment where an abundance of miscellaneous refuse was noted. Elsewhere, a moderate amount of neoteric refuse was also seen strewn about the subject property. Although ground surface visibility was considered poor over much of the parcel, no traces were found of any prehistoric use of the area or early historic use of the property that could be associated with the structure that once existed on the parcel. Historic aerial photos

While about 200 prehistoric archaeological sites have been discovered within the boundaries of the City of Moreno Valley, no such resources have been recorded within a ¹/₂-mile radius of the subject property (all three recorded cultural resource properties within the search radius consist of early private residences located to the north). In general, the subject property does not appear to be a likely locale for prehistoric settlement or use as no natural resources such as large rock outcrops or water resources exist on, or immediately adjacent to, the parcel (note: the majority of prehistoric sites that are located within the city are associated with milling stations or features [McCarthy and Wilke 1987]). Of interest, however, is the terminus of the intermittent stream from Pigeon Pass Valley, where a series of ponds are depicted on the 1901 edition of the USGS Elsinore, Calif. 1:125,000-series topographic quadrangle to the northeast of the subject property on the east side of Heacock Street. Although the series of blue circles may indicate the presence of a series of small ponds in the area, the unusual group of symbols may also indicate the manifestation a seasonal marsh. If so, and this feature existed over a long period of time, it undoubtedly would have been exploited by the prehistoric inhabitants of the region for its food and water resources. Nevertheless, this natural feature is located far enough away that from the subject property where no direct linkage is suspected at present.

Given the number of known archaeological resources in the City of Moreno Valley, there is no doubt that the region was utilized by the prehistoric inhabitants of the area for many different purposes such as habitation areas, food and other resource processing areas, lithic workshop areas, religious and dance areas, etc. Some of these uses leave material remains in an identifiable locale that archaeologists refer to as "sites". Other uses, such as food procurement areas and transit corridors, generally leave little physical evidence, except for the occasional discovery of an isolated find. Unfortunately, if the subject property was ever the focus on any use by Native Americans, no evidence of such was noted on the current surface of the parcel. Moreover, the subject property appears to have been graded several times over the years and was historically used as orchard land. Although there was once a small structure on the parcel that was constructed before 1939, it was demolished sometime between 1966–67 and no remaining evidence of it was noted during the current field inspection.

VI. MANAGEMENT CONSIDERATIONS

Since no prehistoric or early historic resources were noted on the surface of APN 292-160-023, the proposed development of a 5,424-square foot fully automated car wash on this parcel will not have a direct impact any known cultural resources. The EIC records search noted the presence of three cultural resource properties (all historic residential structures) within a ¹/₂-mile radius of the subject property; however, the proposed car wash development will not any indirect impacts on these resources or any others in the region. Therefore, no further cultural resource investigations are recommended for the subject property prior to any grading work on the parcel.

Since there is always the chance that some type of buried or otherwise hidden cultural resources could be uncovered during any ground disturbing activities associated with the development of the subject property, permits for the project should be conditioned that in the event that cultural resources are discovered during construction, all operations in the immediate vicinity of the find must be halted until a qualified archaeologist can evaluate the nature of the resource. The archaeologist shall make the recommendations to the City of Moreno Valley Planning Division (Lead Agency) on the measures that shall be implemented to protect or mitigate the discovered resources. No further ground disturbing work shall occur in the area of the discovery until the Lead Agency approves of the measures to be taken. Once any additional archaeological work has been completed, work in the area of the find can continue. The consulting archaeologist shall complete all appropriate resource record forms and document the results of any archaeological work in a final technical report; both the forms and the report must be submitted to the EIC for the state's archival records.

If any human remains are encountered on the subject property, the procedures described in Section 7050.5 of the California State Health and Safety Code must be followed. These procedures include: (1) no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the County Coroner has been contacted; (2) if the coroner determines that the human remains are those of a Native American or has reason to believe that they are those of a Native American, the coroner's office shall contact the Native American Heritage Commission (NAHC) by telephone within 24 hours; (3) upon the discovery of Native American remains, the permittee shall ensure that the immediate vicinity is not damaged or disturbed by further development activity until the permittee has discussed and conferred with the most likely descendants regarding the descendants' preferences and all

reasonable options for treatment and disposition of the remains in accordance with Public Resources Code Section 5097.98; and (4) whenever the NAHC is unable to identify a descendant or descendants fail to make a recommendation, or the landowner or his or her authorized representative rejects the recommendation of the descendants and the mediation provided in Subdivision (k) of Public Resources Code Section 5097.94, if invoked, fails to provide measures acceptable to the landowner, the landowner or his or her authorized representative shall reinter the human remains and items associated with Native American remains with appropriate dignity on the property in a location not subject to further and future subsurface disturbance. To protect the sites, the landowner shall record the site with the NAHC and the EIC.

VII. REFERENCES CITED

Bean, L. J.

1978 Cahuilla. In Handbook of North American Indians, edited by R. F. Heizer, pp. 575-587. vol. 8 California, W. C. Sturtevant, general editor. 20 vols. Smithsonian Institution, Washington.

California Office of Historic Preservation

1990 Archaeological Resource Management Reports (ARMR): Recommended Contents and Format. California Office of Historic Preservation, Sacramento.

Gudde, E. G. and W. Bright

1998 *California Place Names : the origin and etymology of current geographical* names. 4th ed. University of California Press, Berkeley.

Harvey, V.

2016 Letter RE: AB 52 Consultation for P 16-0077. Agua Caliente Band of Cahuilla Indians. Submitted to Mr. Gabriel Diaz, City of Moreno Valley.

Heizer, R. F.

1978 California. Handbook of North American Indians 8. 20 vols. Smithsonian Institution, Washington D.C.

McCarthy, D. F. and P. J. Wilke

Cultural Resources Inventory for the City of Moreno Valley, Riverside County, 1987 California. Archaeological Research Unit, University of California Riverside. Submitted to Planning Department, City of Moreno Valley, Moreno Valley, Copies available from Eastern Information Center, University of California Riverside (Report No. RI-02171).

Morton, D. M. and J. C. Matti

2001 Geologic Map of the Sunnymead 7.5' Quadrangle, Riverside County, California. United States Geological Survey.

Ontiveros. J.

Letter RE: AB 52 Consultation; PA16-0077 – northwesterly of Sunnymead & 2016 Boulevard and Heacock Street (APN 292-160-023). Soboba Ban of Luiseño Indians. Submitted to Gaberiel Diaz, Associate Planner, City of Moreno Valley, Community Development Department, Planning Division.

Ozdil, E.

Letter Re: Pechanga Tribe Request for Consultation Pursuant to AB 52 for the 2016 Moreno Valley Carwash Project (PA16-0077). Temecula Band of Luiseño Mission Indians (Pechanga Cultural Resources). Submitted to Gabriel Diaz, Case Planner, City of Moreno Valley, Community Development Department

Smallwood, J.

2008a Site Record Form P-33-017202. CRM TECH, Colton. Submitted to Eastern Information Center, University of California Riverside.

Smallwood, J., T. Jacquemain and L. H. Shaker

Historical/Archaeological Resources Survey Report Heacock Street Road-2008 Widening Project, City of Moreno Valley, Riverside County, California. CRM TECH, Colton. Submitted to City of Moreno Valley, Public Works Department, Moreno Valley. Copies available from Eastern Information Center, University of California Riverside (Report No. RI-07862).

Warner, J.

Site Record Form P-33-007285. Riverside County Historical Commission, 1983 Riverside. Copies available from Eastern Information Center, University of California Riverside.

VIII. LIST OF ATTACHMENTS

Figure 1. Location Map

Figure 2. Site Plan

Figure 3. 1901 Historic Map

Figure 4. 1942 Historic Map

Figure 5. 1966 Historic Aerial Photo

Appendix A. Statement of Qualifications: B. Getchell and J. E. Atwood of PAST, INC. (2 pages).

Appendix B. EIC Records Search Results Letter and Report List (4 pages).

Appendix C. AB 52 Tribal Consultation Letters received by the City of Moreno Valley (4 pages). Appendix D. Two photographs taken during the field inspection (1 page).

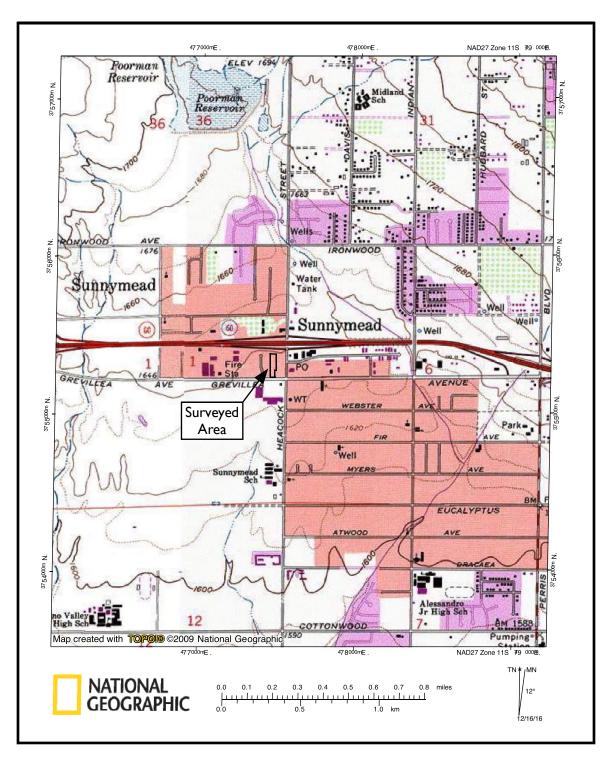
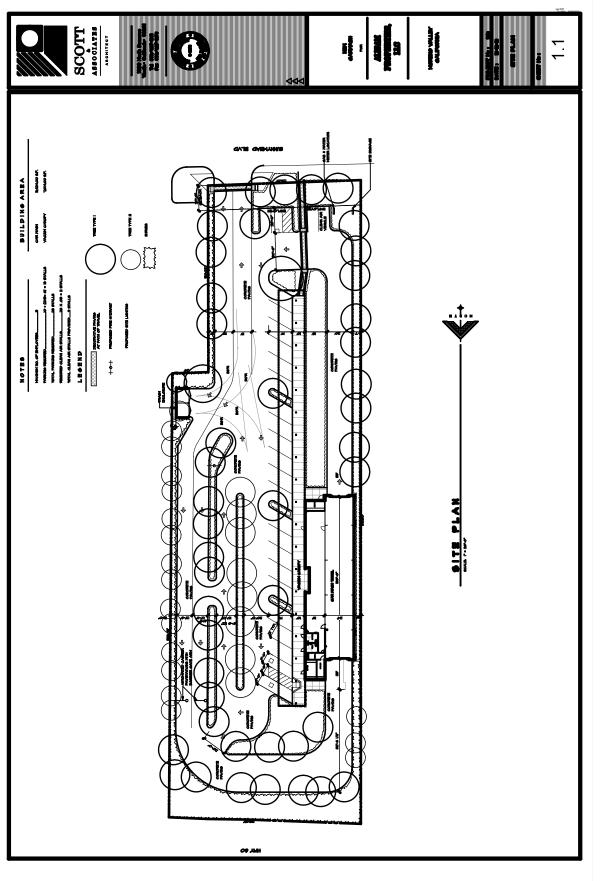


Figure 1. Location Map

Portions of the 1967 (photorevised 1980) editions of the USGS Riverside East and Sunnymead, Calif. 7.5-minute series topographic quadrangles showing the location of the area surveyed for cultural resources (outlined); APN 292-160-023 (1.68 acres) located north of Sunnymead Blvd (shown as Grevillea Ave) and west of Heacock St., City of Moreno Valley, Riverside County, California (note: specific address pending).





Attachment: Appendix C - Phase I Cultural Resources Technical Report (2913 : PEN16-0113 Plot Plan)

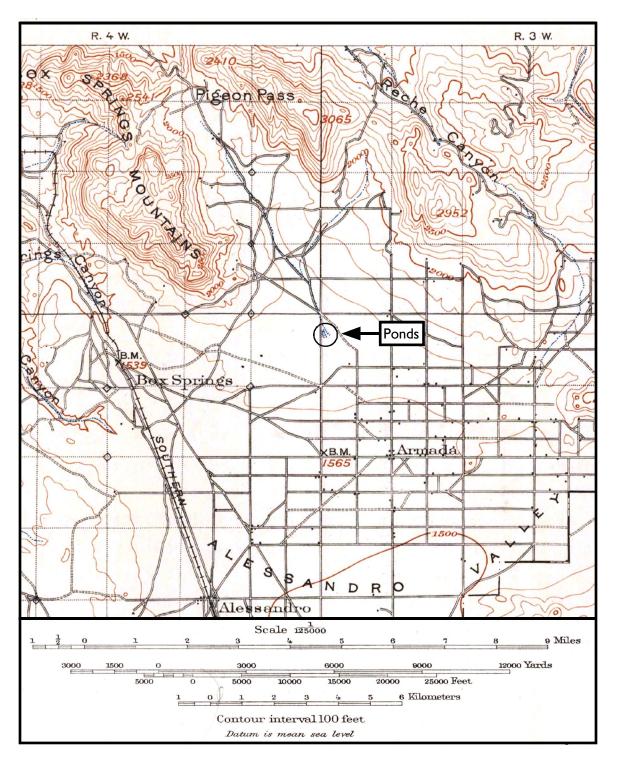


Figure 3. 1901 Historic Map

A portion of the historic 1901 edition of the USGS Elsinore, Calif. 1:125,000-scale topographic quadrangle showing the nearby terminus of an intermittent stream where a series of small ponds are depicted (a seasonal marsh?). Although electronic plotting on the USGS Historical Topographic Map Explorer website (http://historicalmaps.arcgis.com/usgs/) plots this feature at the northern boundary of APN 292-160-023, the subject property is located on the west side of Heacock Street indicating an original mapping or subsequent projection error.

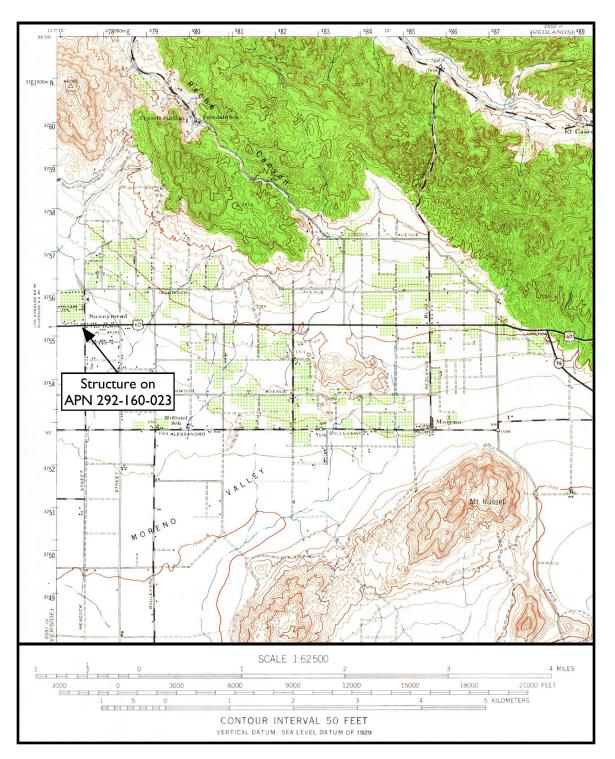


Figure 4. 1942 Historic Map

A portion of the 1942 edition of the U.S. Department of the Army, Corps of Engineers Perris, Calif. 15-minute series topographic quadrangle showing a structure on APN 292-160-023 along California State Highway 60 (arrow pointing to the second structure on the north side of Sunnymead Blvd., just west of Heacock Street). Following historic areial photos, the structure was removed or demolished sometime between 1966 and 1967. Also note that area to the north of the stucture was used for orchard lands.

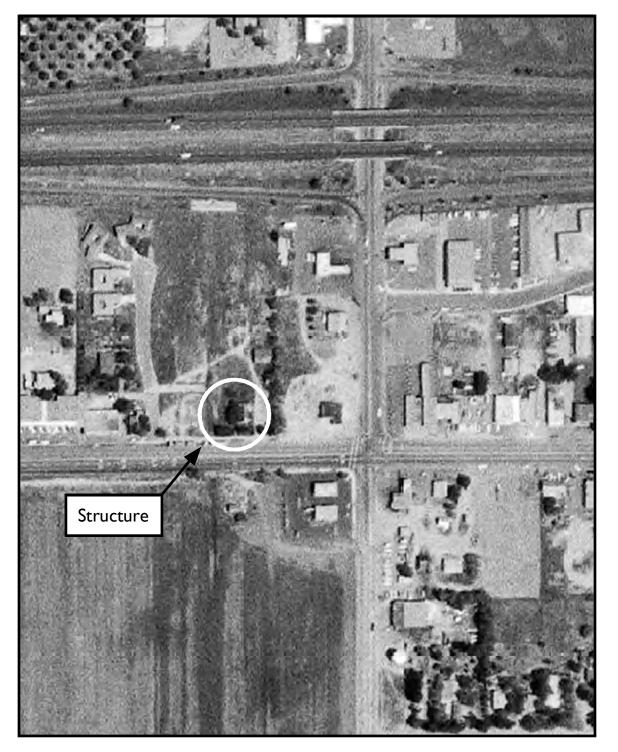


Figure 5. 1966 Historic Aerial Photo

A historic aerial photo taken on April 16, 1966 showing a structure that was once present on APN 292-160-023 (circled). This structure was developed prior to 1939 (following the 1942 edition of the U.S. Department of the Army, Corps of Engineers Perris, Calif. 30-minute series topographic quadrangle) and was demolished shortly after this photo was taken (the structure is no longer present on the 1967 aerial photo). Source: www.HistoricAerials.com

Appendix A

Statement of Qualifications — Barbie Getchell and John E. Atwood of PAST, INC.

2 pages

BARBIE GETCHELL PAST, INC. Principal Investigator / Archaeologist

Ms. Getchell is certified in field research by the Register of Professional Archaeologists (RPA) and meets the current Secretary of the Interior Standards for archaeological research. Barbie received her M.A. in History (archaeological emphasis) from the University of Durham in the UK and her B.A. from the University of California, Los Angeles. She is well versed in all aspects of the archaeological evaluation process including prehistory and historic studies. Her experience in the field includes testing, surveys, and monitoring projects in, Kern, Los Angeles, Orange, Riverside, San Luis Obispo, Santa Barbara, and Ventura Counties, the Tahoe National Forest, and Santa Cruz Island in California as well as projects in Idaho and Nevada. Work experience abroad includes archaeological projects in Belize and the United Kingdom.

TECHNICAL CAPABILITIES

- Specializes in developing database applications for archaeological research and non-archaeological applications. Also experienced in the use of computer interfacing Global Positioning Systems (GPS) mapping and Internet web page development and design.
- Extensive technical report writing experience. Report types include: archaeological technical reports (Phase I, II, and III, and monitoring); research designs; cultural resource management plans; EIR/EIS section preparation; and ethnographic, historic, and historic map research.
- Proven leadership and project management skills as a Principal Investigator, Laboratory Director, Contract Supervisor, Field Director, and Database Administrator.
- Extensive experience with computer software such as Microsoft Access, Excel, PowerPoint and Word, WordPerfect for Windows, Corel Draw, as well as many others.
- EDUCATION
- Master of Arts Degree, History (archaeological emphasis), University of Durham, UK (1993)
- Bachelor of Arts Degree, Anthropology, University of California, Los Angles (1990)
- ASSOCIATIONS
- Register of Professional Archaeologists
- Archaeological Institute of America

• SELECTED PROJECT EXPERIENCE

Federal Lands

- Numerous field and laboratory projects on Edwards AFB including the Bacon-Darr Adobe, Pancho Barnes' 'Happy Bottom Riding Club", Gen. Henry H. 'Hap' Arnold's 1930s camp, etc.
- Various Cultural Resources Inventories in the Tahoe National Forest

Public Works

- Cultural Resources Monitoring of the Stranwood Ave. to Sepulveda Blvd. Drain project, Los Angeles County, CA
- Cultural Resources Inventory and Impact Assessment for the Los Angeles County Department of Public Works in Lancaster, CA.
- Test Excavations at Friendship County Park, San Pedro, Los Angeles County, CA.

Commercial / Private Developments

- Archaeological Testing and Mitigation at P-40-001888 on the Serenade Tract in Paso Robles, San Luis Obispo, CA.
- Weinberg Village portion of the Emma Stern Village at Camp JCA Sholom, Malibu, Los Angeles County, CA.
- Archaeological Testing at P-15-002572, -004424, -004425, and -004426 on TPM No. 10157 in the City of Rosamond, Kern County, CA.
- Data Recovery program at P-19-000129 for the PAZAR Associates and The Home Depot in City of Calabasas, CA.

Studies Abroad

- Rio Brava Project in Belize, Central America.
- Evidence from the Sutton Hoo Cemetery for the Development of Early Anglo-Saxon Kingship in England (M.A. Thesis).

JOHN E. ATWOOD PAST, INC. President / Project Archaeologist

Mr. Atwood has been actively participating in archaeological investigations since the early 1980s, where he specializes in project administration and data management. After receiving his B.A. degree in anthropology from California State University, Northridge in 1984, John has spent most his professional career in archaeology with only two cultural resources management firms including being a cofounder of PAST, INC. in 1995. Overall, he has participated in more than 365 archaeological research projects and has written more than 335 technical reports. His regional field experience includes surveys, testing, data recovery and monitoring projects in Imperial, Inyo, Kern, Los Angeles, Orange, Riverside, Santa Barbara, San Bernardino, San Diego, San Luis Obispo, and Ventura counties in California as well as performing archival research for studies Idaho, Oregon, and Utah.

TECHNICAL CAPABILITIES

- Professional experience includes: client and Lead Agency negotiations; detailed project proposals, budgets, and logistics; contract preperation; hiring of personnel and specialists: field and laboratory supervision: data analysis; report preparation; curation; and payroll and accounting.
- Extensive technical report writing experience (more than 335). Report types include: archaeological technical reports; Section 106 reports; resource management plans; research designs; preparation of EIR/EIS, lithic studies, ethnographic, historic, and archival research sections.
- Specializes in computer applications for archaeological research such as word processing, spreadsheets, mapping, graphics, and photography
- Other experiences include publishing (Knapper's Quarterly, a publication for about the knapper that contains articles about experimental archaeology and profiles of flintknappers); photography; internet site design and webpage development; and webserver operations.

EDUCATION

• Bachelor of Arts Degree, Anthropology, California State University Northridge (1984)

SELECTED PROJECT EXPERIENCE

- Federal Passport In Time (PIT) at Sulphur Springs Campground in the Angeles National Forest, California.
- Class III Study of a 55+ mile Southern California Gas Company Line from Niland to Calexico in Imperial County, California.
- Cultural resources inventory of six proposed ASR-11 sites to serve the R2508 Airspace in the High Desert Area of California that included project areas in Inyo, Kern, and San Bernardino counties.
- Archaeological and historical evaluations for the proposed airport surveillance detection equipment to serve LAX, Los Angeles County, California.
- Archaeological data recovery mitigation and monitoring in Shell Beach, San Luis Obispo County, California.
- Archaeological monitoring of the Weinberg Village portion of the Emma Stern Village at Camp JCA Sholom, Malibu, California.
- Cultural resources inventory of a 67.49acre property in the community of Lake Isabella, Kern County, California
- Historic surveys of several irrigation waterways in the Boise Valley, Idaho.
- Cultural resource study of the Kern River Valley Specific Plan Area, 110,510 acres, in Kern County, California.
- Multi-phase evaluations in Oceano, CA

Appendix **B**

EIC Records Search Results Letter and Report List

EIC-RIV-ST-4000

4 pages

EASTERN INFORMATION CENTER CALIFORNIA HISTORICAL RESOURCES INFORMATION SYSTEM Department of Anthropology, University of California, Riverside, CA 92521-0418 (951) 827-5745 - eickw@ucr.edu Inyo, Mono, and Riverside Counties

January 30, 2017 CHRIS Access and Use Agreement No.: 178 EIC- RIV-ST-4000

John E. Atwood Past, Inc. 18034 Ventura Blvd. #202 Encino, CA 91316-3516

Re: Cultural Resources Records Search for the Phase I Survey of APN 292-160-023, Moreno Valley

Dear John E. Atwood,

We received your request on January 25, 2017, for a cultural resources records search for the Phase I Survey, Moreno Valley Project located in Section 1, T.3S, R.4W, SBBM, in the Sunnymead area in Riverside County. We have reviewed our site records, maps, and manuscripts against the location map you provided.

Our records indicate that five cultural resources studies have been conducted within a half-mile radius of your project area. One of these studies involved the project area. Eight additional studies provide overviews of cultural resources in the general project vicinity. PDF copies of these reports are included for your reference. All of these reports are listed on the attachment entitled "Eastern Information Center Report Listing" and are available upon request at 15¢/page plus \$40/hour for hard copies, or 15¢/page plus \$40/hour and a \$25 flat fee for PDFs.

Our records indicate that three cultural resources properties have been recorded within a half-mile radius of your project area. None of these properties involved the project area. PDF copies of the records are included for your reference.

The above information is reflected on the enclosed maps. Areas that have been surveyed are highlighted in yellow. Numbers marked in blue ink refer to the report number (RI #). Cultural resources properties are marked in red; numbers in black refer to Trinomial designations, those in green to Primary Number designations. National Register properties are indicated in light blue.

Additional sources of information consulted are identified below.

National Register of Historic Places: no listed properties are located within the boundaries of the project area.

Office of Historic Preservation (OHP), Archaeological Determinations of Eligibility (ADOE): no listed properties are located within the boundaries of the project area.

Office of Historic Preservation (OHP), Directory of Properties in the Historic Property Data File (HPD): one property (P-07285) is listed and appears eligible for inclusion on the National Register of Historic Places through survey evaluation. The applicable portion of this directory is enclosed for your study needs.

Note: not all properties in the California Historical Resources Information System are listed in the OHP ADOE and HPD; the ADOE and HPD comprise lists of properties submitted to the OHP for review.

As the Information Center for Riverside County, it is necessary that we receive a copy of <u>all</u> cultural resources reports and site information pertaining to this county in order to maintain our map and manuscript files. Confidential information provided with this records search regarding the location of cultural resources outside the boundaries of your project area should not be included in reports addressing the project area.

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the California Historical Resources Information System (CHRIS) Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

The California Office of Historic Preservation (OHP) contracts with the California Historical Resources Information System's (CHRIS) regional Information Centers (ICs) to maintain information in the CHRIS inventory and make it available to local, state, and federal agencies, cultural resource professionals, Native American tribes, researchers, and the public. Recommendations made by the IC coordinators or their staff regarding the interpretation and application of this information are advisory only. Such recommendations do not necessarily represent the evaluation or opinion of the State Historic Preservation Officer in carrying out the OHP's regulatory authority under federal and state law.

Sincerely,

Leslie Yee

Information Officer

Enclosures

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
RI-00133	NADB-R - 1080150; Voided - MF-0114	1974	Thomas F. King, Mary A. Brown, Gerrit Fenenge, and Claudia Nissley	Archaeological Impact Evaluation: Southern California Edison Company's Devers-Vista 220 KV Transmission Line, Riverside County, California	Archaeological Research Unit, U.C. Riverside	
RI-00137	NADB-R - 1080155; Voided - MF-0117	1974	James F. O'Conell, Philip J. Wilke, Thomas F,. King, and Carol L. Mix	Perris Reservior Archaeology, Late Prehistoric Demographic Change in Southeastern California	Archaeological Research Unit, U.C. Riverside	33-000012, 33-000021, 33-000062, 33-000202, 33-000331, 33-000419, 33-000452, 33-000455, 33-000463, 33-000464
RI-00161	NADB-R - 1080200; Voided - MF-0144	1975	Roberta S. Greenwood	Paleontological, Archaeological, Historical, and Cultural Resources, West Coast-Midwest Pipeline Project, Long Beach to Colorado River	Greenwood and Associates	
RI-02050	NADB-R - 1082479; Other - DAC05-85- 0033; Voided - MF-2244	1985	PERAULT, GORDON	PRELIMINARY HISTORIC INVENTORY - MARCH AIR FORCE BASE, CALIFORNIA	FIELDS AND SILVERMAN ARCHITECTS	
RI-02061	NADB-R - 1082496; Voided - MF-2260	1986	LERCH, MICHAEL	ARCHAEOLOGICAL SURVEY OF FESTIVAL AT MORENO VALLEY, RIVERSIDE COUNTY, CALIFORNIA	AUTHOR(S)	
RI-02171	NADB-R - 1082753; Submitter - 0870; Voided - MF-2358	1987	MCCARTHY, DANIEL F.	CULTURAL RESOURCES INVENTORY FOR THE CITY OF MORENO VALLEY, RIVERSIDE COUNTY, CALIFORNIA	ARCHAEOLOGICAL RESEARCH UNIT, U.C. RIVERSIDE	33-000361, 33-000395, 33-000497, 33-000857, 33-000860, 33-001063, 33-001064, 33-003223, 33-003224, 33-003225, 33-003226, 33-003227, 33-003228, 33-003229, 33-003230, 33-003234, 33-003235, 33-003236, 33-003240, 33-003241, 33-003242, 33-003240, 33-003241, 33-003245, 33-003246, 33-003247, 33-003248, 33-003246, 33-003250, 33-003254, 33-003264, 33-003250, 33-003260, 33-003264, 33-003262, 33-003264, 33-003264, 33-003265, 33-003266, 33-003264, 33-003265, 33-003266, 33-003264, 33-003265, 33-003266, 33-003264, 33-003265, 33-003266, 33-003264, 33-003268, 33-003266, 33-003264, 33-003268, 33-003269, 33-003270, 33-003271, 33-003272, 33-003306, 33-003304, 33-003305, 33-003343, 33-003344, 33-003345, 33-003346, 33-003347, 33-003351, 33-003352, 33-003353

EIC 1/30/2017 11:39:31 AM

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Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
RI-04813	NADB-R - 1086175; Other - 118, 119, 120, 121, 122, 123	1993	NATIONAL PARK SERVICE, HAER	CALIFORNIA CITRUS HERITAGE RECORDING PROJECT: PHOTOGRAPHS, WRITTEN HISTORICAL AND DESCRIPTIVE DATA, REDUCED COPIES OF MEASURED DRAWINGS FOR: ARLINGTON HEIGHT CITRUS LANDSCAPE, GAGE IRRIGATION CANAL, NATIONAL ORANGE COMPANY PACKING HOUSE, VICTORIA BRIDGE, AND UNION PACIFIC RAILROAD BRIDGE	NATIONAL PARK SERVICE, HISTORIC AMERICAN ENGINEERING RECORD	33-003361, 33-004768, 33-009772
RI-05088	NADB-R - 1086450	2005	CULTURAL SYSTEMS RESEARCH, INC.	ETHNOGRAPHIC OVERVIEW INLAND FEEDER PIPELINE PROJECT	CULTURAL SYSTEMS RESEARCH, INC.	
RI-06088	Caltrans - 08230- 466900; NADB-R - 1087451	1998	BRICKER, DAVID	FIRST SUPPLEMENTAL HISTORIC PROPERTY SURVEY REPORT FOR THE IMPROVEMENT OF INTERSTATE ROUTE 215/STATE ROUTE 91/ STATE ROUTE 60, RIVERSIDE COUNTY, CA	CALTRANS- DISTRICT 8	33-004495, 33-009681, 33-011517, 33-011521, 33-011523, 33-011537, 33-011539, 33-011561, 33-012149, 33-012150, 33-012151, 33-012152, 33-012153, 33-012154, 33-012155, 33-012156, 33-012157, 33-012158, 33-012159, 33-012160, 33-012162, 33-012163, 33-012164, 33-012165, 33-012166, 33-012167, 33-012168, 33-012169, 33-012170, 33-012171
RI-07862	Submitter - CRM TECH Contract No. 2228	2008	Smallwood, Josh, Terri Jacquemain, and Laura H. Shaker	Historical/ Archaeological Resources Survey Report Heacock Street Road-Widening Project City of Moreno Valley Riverside County, California	CRM TECH	33-017202, 33-017203
RI-08078		2008	ECORP Consulting, Inc.	Cultural Resource Inventory of Proposed Improvements to Indian Detention Basin and Ironwood Avenue in the City of Moreno Valley Riverside, California	ECORP Consulting, Inc.	
RI-08235		2001	James E. Workman	Cupules A Type of Petroglyphic Rock Art. A Study of the Pitted Boulders in the San Jacinto Wildlife Area and the Lake Perris State Recreational Area	Indian Rock Art Specialist	33-000012, 33-000062, 33-000202, 33-000331, 33-000395, 33-000419, 33-000421, 33-000428, 33-000452, 33-000464
RI-09385		2015	Mathew M. DeCarlo and Diane L. Winslow	Engineering Refinement Survey and Recommendation of Eligibility for Cultural Resources with Southern California Edison Company's West of Devers Upgrade Project, Riverside and San Bernardino Counties, California	ASM Affiliates	

Packet Pg. 404

Appendix C

AB 52 Tribal Consultation Letters received by the City of Moreno Valley (supplied to PAST, INC. for review)

4 pages

TRIBAL HISTORIC PRESERVATION



03-024-2016-012

November 15, 2016

[VIA EMAIL TO:gabrield@moval.org]City of Moreno ValleyMr. Gabriel Diaz14177 Frederick Street, P.O. Box 88005Moreno Valley, CA 92552-0805

Re: AB 52 Consultation for P 16-0077

Dear Mr. Gabriel Diaz,

The Agua Caliente Band of Cahuilla Indians (ACBCI) appreciates your efforts to include the Tribal Historic Preservation Office (THPO) in the PA16-0077 project. The project area is not located within the boundaries of the ACBCI Reservation. However, it is within the Tribe's Traditional Use Area (TUA). For this reason, the ACBCI THPO requests the following:

*A cultural resources inventory of the project area by a qualified archaeologist prior to any development activities in this area.

*Copies of any cultural resource documentation (report and site records) generated in connection with this project.

*A copy of the records search with associated survey reports and site records from the information center.

Again, the Agua Caliente appreciates your interest in our cultural heritage. If you have questions or require additional information, please call me at (760)699-6981. You may also email me at vharvey@aguacaliente.net.

5401 DINAH SHORE DRIVE, PALM SPRINGS, CA 92264

Cordially,

N. Karry

Victoria Harvey Archaeological Monitoring Coordinator Tribal Historic Preservation Office AGUA CALIENTE BAND OF CAHUILLA INDIANS

November 29, 2016



Attn: Gabriel Diaz, Associate Planner City of Moreno Valley Community Development Department, Planning Division 14177 Frederick Street Moreno Valley, CA 92552-0805

RE: AB 52 Consultation; PA16-0077 – northwesterly of Sunnymead & Boulevard and Heacock Street (APN 292-160-023)

The Soboba Band of Luiseño Indians has received your notification pursuant under Assembly Bill 52.

Soboba Band of Luiseño Indians is requesting to initiate formal consultation with the City of Moreno Valley. A meeting can be scheduled by contacting me via email or phone. All contact information has been included in this letter.

I look forward to hearing from and meeting with you soon.

Sincerely,

Joseph Ontiveros, Director of Cultural Resources Soboba Band of Luiseño Indians P.O. Box 487 San Jacinto, CA 92581 Phone (951) 654-5544 ext. 4137 Cell (951) 663-5279 jontiveros@soboba-nsn.gov

Confidentiality: The entirety of the contents of this letter shall remain confidential between Soboba and the City of Moreno Valley. No part of the contents of this letter may be shared, copied, or utilized in any way with any other individual, entity, municipality, or tribe, whatsoever, without the expressed written permission of the Soboba Band of Luiseño Indians.

Chairperson: Neal Ibanez

Vice Chairperson: Bridgett Barcello

Committee Members Mary Bear Magee Evie Gerber Darlene Miranda Richard B. Scearce, J Michael Vasquez

Director: Gary DuBois

Coordinator: Paul Macarro

Planning Specialist: Tuba Ebru Ozdil

Cultural Analyst: Anna Hoover

PECHANGA CULTURAL RESOURCES

Temecula Band of Luiseño Mission Indians

Post Office. Box 2183 • Temecula, CA 92593 Telephone (951) 308-9295 • Fax (951) 506-9491

November 23, 2016

VIA E-MAIL and USPS

Gabriel Diaz Case Planner City of Moreno Valley Community Development Department 14177 Frederick Street PO Box 88005 Moreno Valley, CA 92552-0805

Re: Pechanga Tribe Request for Consultation Pursuant to AB 52 for the Moreno Valley Carwash Project (PA16-0077)

Dear Mr. Diaz;

This letter is written on behalf of the Pechanga Band of Luiseño Indians (hereinafter, "the Tribe" and/or "Payómkawichum"), a federally recognized Indian tribe and sovereign government in response to the AB 52 notice provided by the City of Moreno Valley dated November 1, 2016 and received in our office November 9, 2016.

This letter serves as the Tribe's formal request to begin consultation under AB 52 for this Project. Per AB 52, we intend to assist the City in determining the type of environmental document that should be prepared for this Project (i.e. EIR, MND, ND); with identifying potential tribal cultural resources (TCRs); determining whether potential substantial adverse effects will occur to them; and to develop appropriate preservation, avoidance and/or mitigation measures, as appropriate. Preferred TCR mitigation is always avoidance and the Tribe requests that all efforts to preserve sensitive TCRs be made as early in the development process as possible.

Please add the Tribe to your distribution list(s) for public notices and circulation of all documents, including environmental review documents, archaeological reports, development plans, conceptual grading plans (if available), and all other applicable documents pertaining to this Project. The Tribe further requests to be directly notified of all public hearings and scheduled approvals concerning this Project, and that these comments be incorporated into the record of approval for this Project.



Pechanga Comment Letter to the City of Moreno Valley Re: Pechanga Tribe Request: AB 52 RE PA16-0077 Project November 23, 2016 Page 2

The Pechanga Tribe asserts that the Project area is part of Payómkawichum (Luiseño), and therefore the Tribe's, aboriginal territory as evidenced by the existence of Payómkawichum cultural resources, named places, tóota yixélval (rock art, pictographs, petroglyphs), and an extensive Payómkawichum artifact record in the vicinity of the Project. This culturally sensitive area is affiliated with the Pechanga Band of Luiseño Indians because of the Tribe's cultural ties to this area as well as our extensive history with the City and other projects within the area. During our consultation we will provide more specific, confidential information on potential TCRs that may be impacted by the proposed Project.

As you know, the AB 52 consultation process is ongoing and continues until appropriate mitigation has been agreed upon for the TCRs that may be impacted by the Project. As such, under both AB 52 and CEQA, we look forward to working closely with the City on ensuring that a full, comprehensive environmental review of the Project's impacts is completed, including addressing the culturally appropriate and respectful treatment of human remains and inadvertent discoveries.

In addition to those rights granted to the Tribe under AB 52, the Tribe reserves the right to fully participate in the environmental review process, as well as to provide further comment on the Project's impacts to cultural resources and potential mitigation for such impacts.

The Pechanga Tribe looks forward to working together with the City of Moreno Valley in protecting the invaluable Pechanga cultural resources found in the Project area. The formal contact person for this Project will be Ebru Ozdil. Please contact her at 951-770-8113 or at eozdil@pechanga-nsn.gov within 30 days of receiving these comments so that we can begin the consultation process. Thank you.

Sincerely, Ebru Ozdil

Planning Specialist

cc Pechanga Office of the General Counsel

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Appendix D

Two photographs taken during the field inspection APN 292-160-023, Moreno Valley, Riverside County, California

1 page



Appendix D. Two photographs taken during the field inspection

Photograph 1. Facing south from the northern end of the subject property, this photo shows the general condition of the parcel at the time of the inspection. Note the dense growth of weedy annuals in the foreground, the clear graded patch of land in the center, and the southern portion along Sunnymead Blvd. Photo taken by John E. Atwood on February 10, 2017.



Photograph 2. Facing north, this photo shows the northeast corner of the subject property, which is currently used as a small homeless encampment. Note the old existing pavement and the abundant amount of neoteric refuse strewn about the area (some of which, spills over onto the earthen portion of the parcel to the west). Photo taken by John E. Atwood on February 10, 2017.

Appendix D Noise Modeling Files

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Packet Pg. 414

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Construction

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Packet Pg. 416

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Roadway Construction Noise Model (RCNM), Version 1.1

5/10/2017

Report date:

Case Description:	Grading													
			Recept	or #1										
Description	Land Lica	Baselines (dBA)	Night											
Description Auto Care (W)	Land Use Commercial	Daytime Evening 65	Night 65 6	5										
Auto Care (W)	Commercial	03	05 0	5										
			Equipment											
			Spec	Actual	Receptor	Estimated								
Description		Impact Device Usage(%	Lmax 5) (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)								
Grader		No	40 8		(1991)		0							
Dozer		No	40	81.			0							
Tractor		No	40 8	4	100)	0							
			Results											
		Calculated (dBA)	Results	Noise Limit	s (dBA)					Noise Limit	Exceedance	(dBA)		
			Day		Evening		Night		Day		Evening		Night	
Equipment		*Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Grader		79	75 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer Tractor		75.6 7 78	1.7 N/A 74 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Hactor	Total		8.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is t	he Loudest val	Je.										
			Recept	or #2										
		Baselines (dBA)	Recept	01 // 2										
Description	Land Use	Daytime Evening	Night											
Fast Food (E)	Commercial	65	65 6	5										
			Equipment											
			Spec	Actual	Receptor	Estimated								
		Impact	Lmax	Lmax	Distance	Shielding								
Description		Device Usage(%		(dBA)	(feet)	(dBA)								
Grader		No		5	120		0							
Dozer					7 100									
Tractor		No No	40 40 8	81. ⁻ 4			0							
Tractor		No No		81. ⁻ 4	7 120 120		0							
Tractor		No		4	120							(12.4)		
Tractor			40 8 Results		120 s (dBA)		0		Dav	Noise Limit	Exceedance	(dBA)	Night	
		No Calculated (dBA)	40 8 Results Day	4 Noise Limit	120 s (dBA) Evening)	0 Night	Lea	Day Lmax		Evening		Night Lmax	Lea
Tractor Equipment Grader		No Calculated (dBA) *Lmax Leq	40 8 Results	4	120 s (dBA)		0	Leq N/A	Day Lmax N/A	Noise Limit Leq N/A		(dBA) Leq N/A	Night Lmax N/A	Leq N/A
Equipment Grader Dozer		No Calculated (dBA) *Lmax Leq 77.4 7 74.1 7	40 8 Results Day Lmax 3.4 N/A 0.1 N/A	4 Noise Limit Leq N/A N/A	120 s (dBA) Evening Lmax N/A N/A	Leq N/A N/A	0 Night Lmax N/A N/A	N/A N/A	Lmax N/A N/A	Leq N/A N/A	Evening Lmax N/A N/A	Leq N/A N/A	Lmax N/A N/A	N/A N/A
Equipment Grader	Tabel	No Calculated (dBA) *Lmax Leq 77.4 7 74.1 7 76.4 7	40 8 Results Day Lmax 3.4 N/A 0.1 N/A 2.4 N/A	4 Noise Limit Leq N/A N/A N/A	120 s (dBA) Evening Lmax N/A N/A N/A	Leq N/A N/A N/A	0 Night Lmax N/A N/A N/A	N/A N/A N/A	Lmax N/A N/A N/A	Leq N/A N/A N/A	Evening Lmax N/A N/A N/A	Leq N/A N/A N/A	Lmax N/A N/A N/A	N/A N/A N/A
Equipment Grader Dozer	Total	No Calculated (dBA) *Lmax Leq 77.4 7 74.1 7 76.4 7 77.4	40 8 Results 2 Day Lmax 3.4 N/A 0.1 N/A 2.4 N/A 77 N/A	4 Noise Limit Leq N/A N/A N/A N/A	120 s (dBA) Evening Lmax N/A N/A	Leq N/A N/A	0 Night Lmax N/A N/A	N/A N/A	Lmax N/A N/A	Leq N/A N/A	Evening Lmax N/A N/A	Leq N/A N/A	Lmax N/A N/A	N/A N/A
Equipment Grader Dozer	Total	No Calculated (dBA) *Lmax Leq 77.4 7 74.1 7 76.4 7	40 8 Results 2 Day Lmax 3.4 N/A 0.1 N/A 2.4 N/A 77 N/A	4 Noise Limit Leq N/A N/A N/A N/A	120 s (dBA) Evening Lmax N/A N/A N/A	Leq N/A N/A N/A	0 Night Lmax N/A N/A N/A	N/A N/A N/A	Lmax N/A N/A N/A	Leq N/A N/A N/A	Evening Lmax N/A N/A N/A	Leq N/A N/A N/A	Lmax N/A N/A N/A	N/A N/A N/A
Equipment Grader Dozer	Total	No Calculated (dBA) *Lmax Leq 77.4 7 74.1 7 76.4 7 77.4 *Calculated Lmax is t	40 8 Results 2 Day Lmax 3.4 N/A 0.1 N/A 2.4 N/A 77 N/A	4 Noise Limit Leq N/A N/A N/A N/A Je.	120 s (dBA) Evening Lmax N/A N/A N/A	Leq N/A N/A N/A	0 Night Lmax N/A N/A N/A	N/A N/A N/A	Lmax N/A N/A N/A	Leq N/A N/A N/A	Evening Lmax N/A N/A N/A	Leq N/A N/A N/A	Lmax N/A N/A N/A	N/A N/A N/A
Equipment Grader Dozer Tractor		No Calculated (dBA) *Lmax Leq 77.4 7 74.1 7 76.4 7 77.4 *Calculated Lmax is the Baselines (dBA)	40 8 Results Day Lmax 3.4 N/A 0.1 N/A 2.4 N/A 77 N/A he Loudest valu	4 Noise Limit Leq N/A N/A N/A N/A Je.	120 s (dBA) Evening Lmax N/A N/A N/A	Leq N/A N/A N/A	0 Night Lmax N/A N/A N/A	N/A N/A N/A	Lmax N/A N/A N/A	Leq N/A N/A N/A	Evening Lmax N/A N/A N/A	Leq N/A N/A N/A	Lmax N/A N/A N/A	N/A N/A N/A
Equipment Grader Dozer	Total Land Use Commercial	No Calculated (dBA) *Lmax Leq 77.4 7 74.1 7 76.4 7 77.4 *Calculated Lmax is t	40 8 Results Day Lmax 3.4 N/A 0.1 N/A 2.4 N/A 77 N/A he Loudest values	4 Noise Limit Leq N/A N/A N/A N/A N/A or #3	120 s (dBA) Evening Lmax N/A N/A N/A	Leq N/A N/A N/A	0 Night Lmax N/A N/A N/A	N/A N/A N/A	Lmax N/A N/A N/A	Leq N/A N/A N/A	Evening Lmax N/A N/A N/A	Leq N/A N/A N/A	Lmax N/A N/A N/A	N/A N/A N/A
Equipment Grader Dozer Tractor Description	Land Use	No Calculated (dBA) *Lmax Leq 77.4 7 74.1 7 76.4 7 77.4 *Calculated Lmax is t Baselines (dBA) Daytime Evening	40 8 Results Day Lmax 3.4 N/A 0.1 N/A 2.4 N/A 77 N/A ne Loudest valu Recept Night 65 6	4 Noise Limit N/A N/A N/A N/A J.e. or #3 5	120 s (dBA) Evening Lmax N/A N/A N/A	Leq N/A N/A N/A	0 Night Lmax N/A N/A N/A	N/A N/A N/A	Lmax N/A N/A N/A	Leq N/A N/A N/A	Evening Lmax N/A N/A N/A	Leq N/A N/A N/A	Lmax N/A N/A N/A	N/A N/A N/A
Equipment Grader Dozer Tractor Description	Land Use	No Calculated (dBA) *Lmax Leq 77.4 7 74.1 7 76.4 7 77.4 *Calculated Lmax is t Baselines (dBA) Daytime Evening	40 8 Results Day Lmax 3.4 N/A 0.1 N/A 2.4 N/A 77 N/A he Loudest valu Recept 65 6	4 Noise Limit N/A N/A N/A N/A Je. or #3	120 s (dBA) Evening Lmax N/A N/A N/A N/A	Leq N/A N/A N/A N/A	0 Night Lmax N/A N/A N/A N/A	N/A N/A N/A	Lmax N/A N/A N/A	Leq N/A N/A N/A	Evening Lmax N/A N/A N/A	Leq N/A N/A N/A	Lmax N/A N/A N/A	N/A N/A N/A
Equipment Grader Dozer Tractor Description	Land Use	No Calculated (dBA) *Lmax Leq 77.4 7 74.1 7 76.4 7 77.4 *Calculated Lmax is t Baselines (dBA) Daytime Evening 65	40 8 Results Day Lmax 3.4 N/A 0.1 N/A 2.4 N/A 77 N/A he Loudest valu Recept 65 6 Kight 65 6	4 Noise Limit Leq N/A N/A N/A N/A Je. or #3 5 Actual	120 s (dBA) Evening Lmax N/A N/A N/A N/A Receptor	Leq N/A N/A N/A N/A Estimated	0 Night Lmax N/A N/A N/A N/A	N/A N/A N/A	Lmax N/A N/A N/A	Leq N/A N/A N/A	Evening Lmax N/A N/A N/A	Leq N/A N/A N/A	Lmax N/A N/A N/A	N/A N/A N/A
Equipment Grader Dozer Tractor Description	Land Use	No Calculated (dBA) *Lmax Leq 77.4 7 74.1 7 76.4 7 77.4 *Calculated Lmax is t Baselines (dBA) Daytime Evening	40 8 Results Day Lmax 3.4 N/A 0.1 N/A 2.4 N/A 77 N/A he Loudest vali Recept Night 65 6 Equipment Spec Lmax	4 Noise Limit N/A N/A N/A N/A Je. or #3	120 s (dBA) Evening Lmax N/A N/A N/A N/A	Leq N/A N/A N/A N/A	0 Night Lmax N/A N/A N/A N/A	N/A N/A N/A	Lmax N/A N/A N/A	Leq N/A N/A N/A	Evening Lmax N/A N/A N/A	Leq N/A N/A N/A	Lmax N/A N/A N/A	N/A N/A N/A
Equipment Grader Dozer Tractor Description Service Station (E) Description Grader	Land Use	No Calculated (dBA) *Lmax Leq 77.4 7 76.4 7 77.4 *Calculated Lmax is t Baselines (dBA) Daytime Evening 65	40 8 Results Day Lmax 3.4 N/A 0.1 N/A 2.4 N/A 77 N/A he Loudest vali Recept 65 6 Equipment Spec Lmax 5) (dBA) 40 8	4 Noise Limit Leq N/A N/A N/A Je. or #3 5 Actual Lmax (dBA) 5	120 s (dBA) Evening Lmax N/A N/A N/A N/A N/A Receptor Distance (feet) 180	Leq N/A N/A N/A N/A Estimated Shielding (dBA)	0 Night Lmax N/A N/A N/A N/A N/A	N/A N/A N/A	Lmax N/A N/A N/A	Leq N/A N/A N/A	Evening Lmax N/A N/A N/A	Leq N/A N/A N/A	Lmax N/A N/A N/A	N/A N/A N/A
Equipment Grader Dozer Tractor Description Service Station (E) Description Grader Dozer	Land Use	No Calculated (dBA) *Lmax Leq 77.4 7 76.4 7 77.4 *Calculated Lmax is the Baselines (dBA) Daytime Evening 65 Impact Device Usage(% No No	40 8 Results Day Lmax 3.4 N/A 0.1 N/A 0.1 N/A 40 8 Results Day Lmax 40 6 Results A A A A A A A A A A A A A	4 Noise Limit Leq N/A N/A N/A N/A Je. or #3 5 Actual Lmax (dBA) 5 81.	120 s (dBA) Evening Lmax N/A N/A N/A N/A N/A N/A N/A State Distance (feet) 180 7 180	Leq N/A N/A N/A N/A Shielding (dBA)	0 Night Lmax N/A N/A N/A N/A N/A 0 0	N/A N/A N/A	Lmax N/A N/A N/A	Leq N/A N/A N/A	Evening Lmax N/A N/A N/A	Leq N/A N/A N/A	Lmax N/A N/A N/A	N/A N/A N/A
Equipment Grader Dozer Tractor Description Service Station (E) Description Grader	Land Use	No Calculated (dBA) *Lmax Leq 77.4 7 76.4 7 77.4 *Calculated Lmax is t Baselines (dBA) Daytime Evening 65	40 8 Results Day Lmax 3.4 N/A 0.1 N/A 0.1 N/A 40 8 Results Day Lmax 40 6 Results A A A A A A A A A A A A A	4 Noise Limit Leq N/A N/A N/A Je. or #3 5 Actual Lmax (dBA) 5	120 s (dBA) Evening Lmax N/A N/A N/A N/A N/A Receptor Distance (feet) 180	Leq N/A N/A N/A N/A Shielding (dBA)	0 Night Lmax N/A N/A N/A N/A N/A	N/A N/A N/A	Lmax N/A N/A N/A	Leq N/A N/A N/A	Evening Lmax N/A N/A N/A	Leq N/A N/A N/A	Lmax N/A N/A N/A	N/A N/A N/A
Equipment Grader Dozer Tractor Description Service Station (E) Description Grader Dozer	Land Use	No Calculated (dBA) *Lmax Leq 77.4 7 76.4 7 77.4 *Calculated Lmax is the Baselines (dBA) Daytime Evening 65 Impact Device Usage(% No No	40 8 Results Day Lmax 3.4 N/A 0.1 N/A 0.1 N/A 40 8 Results Day Lmax 40 6 Results A A A A A A A A A A A A A	4 Noise Limit Leq N/A N/A N/A N/A Je. or #3 5 Actual Lmax (dBA) 5 81.	120 s (dBA) Evening Lmax N/A N/A N/A N/A N/A N/A N/A State Distance (feet) 180 7 180	Leq N/A N/A N/A N/A Shielding (dBA)	0 Night Lmax N/A N/A N/A N/A N/A 0 0	N/A N/A N/A	Lmax N/A N/A N/A	Leq N/A N/A N/A	Evening Lmax N/A N/A N/A	Leq N/A N/A N/A	Lmax N/A N/A N/A	N/A N/A N/A
Equipment Grader Dozer Tractor Description Service Station (E) Description Grader Dozer	Land Use	No Calculated (dBA) *Lmax Leq 77.4 7 76.4 7 77.4 *Calculated Lmax is the Baselines (dBA) Daytime Evening 65 Impact Device Usage(% No No	40 8 Results Day Lmax 3.4 N/A 0.1 N/A 2.4 N/A 77 N/A he Loudest valu Recept Night 65 6 Equipment Spec Lmax 5) (dBA) 40 8 40 8 Kesults	4 Noise Limit Leq N/A N/A N/A N/A Je. or #3 5 Actual Lmax (dBA) 5 81.	120 s (dBA) Evening Lmax N/A N/A N/A N/A N/A N/A N/A S (dBA)	Leq N/A N/A N/A N/A Shielding (dBA)	0 Night Lmax N/A N/A N/A N/A 0 0	N/A N/A N/A	Lmax N/A N/A N/A	Leq N/A N/A N/A	Evening Lmax N/A N/A N/A N/A Exceedance	Leq N/A N/A N/A N/A	Lmax N/A N/A N/A N/A	N/A N/A N/A
Equipment Grader Dozer Tractor Description Service Station (E) Description Grader Dozer Tractor	Land Use	No Calculated (dBA) *Lmax Leq 77.4 7 74.1 7 76.4 7 76.4 7 77.4 *Calculated Lmax is the Baselines (dBA) Daytime Evening 65 Impact Device Usage(% No No No Calculated (dBA)	40 8 Results Day Lmax 3.4 N/A 0.1 N/A 2.4 N/A 77 N/A he Loudest value Recept Night 65 6 Equipment Spec Lmax 40 8 40 8 40 8 Results Day	4 Noise Limit Leq N/A N/A N/A N/A Je. or #3 5 Actual Lmax (dBA) 5 81. 4 Noise Limit	120 s (dBA) Evening Lmax N/A N/A N/A N/A N/A N/A N/A S S (dBA) Evening	Leq N/A N/A N/A N/A Shielding (dBA)	0 Night Lmax N/A N/A N/A N/A 0 0 0 Night	N/A N/A N/A N/A	Lmax N/A N/A N/A Day	Leq N/A N/A N/A N/A	Evening Lmax N/A N/A N/A N/A N/A Exceedance Evening	Leq N/A N/A N/A N/A	Lmax N/A N/A N/A N/A N/A	N/A N/A N/A N/A
Equipment Grader Dozer Tractor Description Service Station (E) Description Grader Dozer	Land Use	No Calculated (dBA) *Lmax Leq 77.4 7 74.1 7 76.4 7 76.4 7 76.4 7 76.4 7 76.4 7 76.4 7 76.4 7 7 Calculated Lmax is the second sec	40 8 Results Day Lmax 3.4 N/A 0.1 N/A 2.4 N/A 77 N/A he Loudest valu Recept Night 65 6 Equipment Spec Lmax 5) (dBA) 40 8 40 8 Kesults	4 Noise Limit Leq N/A N/A N/A N/A or #3 5 Actual Lmax (dBA) 5 81. 4	120 s (dBA) Evening Lmax N/A N/A N/A N/A N/A N/A N/A S (dBA)	Leq N/A N/A N/A N/A Shielding (dBA)	0 Night Lmax N/A N/A N/A N/A 0 0	N/A N/A N/A	Lmax N/A N/A N/A	Leq N/A N/A N/A	Evening Lmax N/A N/A N/A N/A Exceedance	Leq N/A N/A N/A N/A	Lmax N/A N/A N/A N/A	N/A N/A N/A
Equipment Grader Dozer Tractor Description Service Station (E) Description Grader Dozer Tractor Equipment	Land Use	No Calculated (dBA) *Lmax Leq 77.4 7 74.1 7 76.4 7 76.4 7 77.4 *Calculated Lmax is th Calculated Lmax is th Daytime Evening 65 Impact Device Usage(% No No No Calculated (dBA) *Lmax Leq 73.9 6	40 8 Results Day Lmax 3.4 N/A 3.4 N/A 3.4 N/A 77 N/A he Loudest valu Recept Night 65 6 Equipment Spec Lmax (dBA) 40 8 40 8 40 8 Results Day Lmax	4 Noise Limit N/A N/A N/A N/A N/A N/A Sor #3 5 Actual Lmax (dBA) 5 81. Noise Limit Leq	120 s (dBA) Evening Lmax N/A N/A N/A N/A N/A N/A N/A N/A S (dBA) Evening Lmax	Leq N/A N/A N/A N/A N/A Estimated Shielding (dBA)	0 Night Lmax N/A N/A N/A N/A 0 0 0	N/A N/A N/A N/A	Lmax N/A N/A N/A Day Lmax	Leq N/A N/A N/A N/A	Evening Lmax N/A N/A N/A N/A Exceedance Evening Lmax	Leq N/A N/A N/A N/A (dBA)	Lmax N/A N/A N/A N/A N/A	N/A N/A N/A N/A
Equipment Grader Dozer Tractor Description Service Station (E) Description Grader Dozer Tractor Equipment Grader	Land Use	No Calculated (dBA) *Lmax Leq 77.4 7 74.1 7 76.4 7 76.4 7 77.4 *Calculated Lmax is t Baselines (dBA) Daytime Evening 65 Usage(% No No No Calculated (dBA) *Lmax Leq 73.9 6 70.5 6 72.9 6	40 8 Results Day Lmax 3.4 N/A 0.1 N/A 2.4 N/A 77 N/A he Loudest vali Recept Night 65 6 Equipment Spec Lmax 0 8 40 8 40 8 40 8 Results Day Lmax 9.9 N/A	4 Noise Limit N/A N/A N/A N/A N/A Sor 4 Actual Lmax (dBA) S 81. Noise Limit Leq N/A	120 s (dBA) Evening Lmax N/A N/A N/A N/A N/A N/A S (dBA) Evening Lmax N/A	Leq N/A N/A N/A N/A N/A Leq N/A	0 Night Lmax N/A N/A N/A 0 0 0 Night Lmax N/A	N/A N/A N/A N/A	Lmax N/A N/A N/A Day Lmax N/A	Leq N/A N/A N/A Noise Limit Leq N/A	Evening Lmax N/A N/A N/A N/A Exceedance Evening Lmax N/A	Leq N/A N/A N/A N/A e (dBA) Leq N/A	Lmax N/A N/A N/A N/A N/A	N/A N/A N/A N/A

*Calculated Lmax is the Loudest value.

Attachment: Appendix D - Noise Modeling Files (2913 : PEN16-0113 Plot Plan)

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: Case Description:	5/10/201 Building Construction	17												
ouse beschption.	Building Construction													
				ceptor #1	-									
Description	Land Use	Baselines (dBA) Daytime Eve	ening Night											
Auto Care (W)	Commercial	65	65	65										
			Equipn		. D	tee Estimat								
		Impact	Spec Lmax	Actua Lmax										
Description			ige(%) (dBA)	(dBA)		(dBA)	19							
Crane		No	16		80.6	100	0							
All Other Equipment	> 5 HP	No	50	85	<u></u>	100	0							
Generator Tractor		No No	50 40	84	80.6	100 100	0 0							
Welder / Torch		No	40	04	74	100	0							
Welder / Torch		No	40		74	100	0							
Welder / Torch		No	40		74	100	0							
			Result											
		Calculated (dBA			Limits (dBA)					Noise Lir	nit Exceedan	ce (dBA)		
			Day		Evenir	ıg	Night		Day		Evening		Night	
Equipment		*Lmax Leo		Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane All Other Equipment	< 5 HP	74.5 79	66.6 N/A 76 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Generator	2011	74.6	71.6 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		78	74 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch		68	64 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch Welder / Torch		68 68	64 N/A 64 N/A	N/A N/A	N/A N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Weidel / Turch	Total	79	79.6 N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A
		*Calculated Lma	ix is the Loudest	value.										
			Do	ceptor #2										
		Baselines (dBA)		.epi0i #2	-									
Description	Land Use		ening Night											
Fast Food (E)	Commercial	65	65	65										
			Equipn	nent										
			Spec	Actua	I Recep	tor Estimat	ted							
		Impact	Lmax	Lmax			ng							
Description Crane		Device Usa No	age(%) (dBA)	(dBA)	(feet) 80.6	(dBA) 120	0							
All Other Equipment	> 5 HP	No	16 50	85	00.0	120	0							
Generator		No	50		80.6	120	0							
Tractor		No	40	84		120	0							
Welder / Torch		No	40		74	120	0 0							
Welder / Torch Welder / Torch		No No	40 40		74 74	120 120	0							
			Results							Nata a Lie				
		Calculated (dBA) Day	NOISE	Limits (dBA) Evenir	a	Night		Day	NOISE LI	nit Exceedan Evening	ce (dBA)	Night	
Equipment		*Lmax Leo	-	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane		72.9	65 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment	> 5 HP	77.4	74.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator Tractor		73 76.4	70 N/A 72.4 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Welder / Torch		66.4	62.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch		66.4	62.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	Tatal	66.4	62.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	77.4 *Calculated I ma	78 N/A ix is the Loudest	N/A value	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

		Baseline
Description	Land Use	Daytime
Service Station (E)	Commercial	

			P
Baseline	s (dBA)		
Daytime	Evening	Night	
	65	65	65

			Equipm	nent				
			Spec	Actua	I	Receptor	Estimated	
	Impact		Lmax	Lmax		Distance	Shielding	
Description	Device	Usage(%)	(dBA)	(dBA)		(feet)	(dBA)	
Crane	No	16	5		80.6	180	0	
All Other Equipment > 5 HP	No	50)	85		180	0	
Generator	No	50)		80.6	180	0	
Tractor	No	40)	84		180	0	
Welder / Torch	No	40)		74	180	0	
Welder / Torch	No	4()		74	180	0	
Welder / Torch	No	40)		74	180	0	

		Results											
	Calculated (d	BA)	Noise L	imits (dBA)					Noise L	imit Exceedar	nce (dBA)		
		Day		Evening		Night		Day		Evening		Night	
Equipment	*Lmax l	Leq Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	69.4	61.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	73.9	70.9 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	69.5	66.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	72.9	68.9 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	62.9	58.9 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	62.9	58.9 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	62.9	58.9 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	73.9	74.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	*Calculated I	may is the Loudest v	aluo										

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: Case Description:	5/10/201 Paving	7													
Description Auto Care (W)	Land Use Commercial	Baseline: Daytime			ceptor #1										
Auto Care (W)	Commercial		co	co	00										
				Equipn		_									
		Impact		Spec Lmax	Actual Lmax	Recep Distar									
Description		Device	Usage		(dBA)	(feet)	(dBA)	ing							
Concrete Mixer Truck		No		40		78.8	100	0							
Paver All Other Equipment >	5 HD	No No		50 50	85	77.2	100 100	0 0							
Roller	JTIF	No		20	05	80	100	0							
Tractor		No		40	84		100	0							
				Result	s										
		Calculate	ed (dBA)			Limits (dBA)					Noise L	mit Exceedan	ce (dBA)		
				Day		Evenii	0	Night		Day		Evening		Night	
Equipment Concrete Mixer Truck		*Lmax 7	Leq 2.8	Lmax 68.8 N/A	Leq N/A	Lmax N/A	Leq N/A	Lmax N/A	Leq N/A	Lmax N/A	Leq N/A	Lmax N/A	Leq N/A	Lmax N/A	Leq N/A
Paver			1.2	68.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment >	5 HP		79	76 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			74	67 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	Total		78 79	74 N/A 79.2 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
				the Loudest											
				Re	ceptor #2										
		Baseline	s (dBA)	i te	ccptor #2										
Description	Land Use	Daytime													
Fast Food (E)	Commercial		65	65	65										
				Equipn											
		Impact		Spec Lmax	Actual Lmax	Recep Distar									
Description		Device	Usage		(dBA)	(feet)	(dBA)	ing							
Concrete Mixer Truck		No	Ū	40		78.8	120	0							
Paver	E LID	No		50	05	77.2	120	0							
All Other Equipment > Roller	SHP	No No		50 20	85	80	120 120	0 0							
Tractor		No		40	84		120	0							
				Result	5										
		Calculate	ed (dBA)	Result		Limits (dBA)					Noise L	mit Exceedan	ce (dBA)		
				Day		Evenii	0	Night		Day		Evening		Night	
Equipment Concrete Mixer Truck		*Lmax 7	Leq 2.9	Lmax 65 N/A	Leq N/A	Lmax N/A	Leq N/A	Lmax N/A	Leq N/A	Lmax N/A	Leq N/A	Lmax N/A	Leq N/A	Lmax N/A	Leq N/A
Paver			7.4	74.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment >	5 HP		73	70 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller Tractor			6.4 6.4	72.4 N/A 62.4 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
ITACIO	Total		0.4 7.4	78 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A
		*Calculat	ed Lmax is	the Loudest	value.										
				Re	ceptor #3										
		Baseline													
Description Service Station (E)	Land Use Commercial	Daytime	Evenin 65	g Night 65	65										
	Commercial		00	00	UJ										
				Equipn		Door	otor Estima	atod							
		Impact		Spec Lmax	Actual Lmax	Recep Distar									
Description								2							
		Device	Usage		(dBA)	(feet)	(dBA)								
Concrete Mixer Truck		No	Usage	40	(dBA)	78.8	180	0							
Concrete Mixer Truck Paver All Other Equipment >			Usage		(dBA) 85			0 0 0							

0 0

Roller

Tractor

No

No

20

40

84

80

180

180

		Results											
	Calculated (dBA)	Noise Li	mits (dBA)					Noise Li	mit Exceedan	ce (dBA)		
		Day		Evening		Night		Day		Evening		Night	
Equipment	*Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Mixer Truck	69.4	61.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	73.9	70.9 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	69.5	66.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	72.9	68.9 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	62.9	58.9 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	73.9	74.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	*Calculated Lma	x is the Loudest va	alue.										

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: Case Description:	5/10/201 Architectural Coa												
Description Auto Care (W)	Land Use Commercial	Baselines (dBA) Daytime Evening 65 65	Receptor #1 Night 5 65										
Description		Impact Device Usage(%)	Equipment Spec Actual Lmax Lmax (dBA) (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)								
Compressor (air)		No 40	0 77. Results	7 100)	0							
		Calculated (dBA)	Noise Limi Day	Evening		Night		Day		it Exceedanc Evening		Night	
Equipment Compressor (air)	Total		Lmax Leq 7 N/A N/A 7 N/A N/A 9 Loudest value.	Lmax N/A N/A	Leq N/A N/A	Lmax N/A N/A	Leq N/A N/A	Lmax N/A N/A	Leq N/A N/A	Lmax N/A N/A	Leq N/A N/A	Lmax N/A N/A	Leq N/A N/A
Description Fast Food (E)	Land Use Commercial	Baselines (dBA) Daytime Evening 65 6!	Receptor #2 Night 5 65										
Description Compressor (air)		Impact Device Usage(%) No 4(Equipment Spec Actual Lmax Lmax (dBA) (dBA) 0 77.	Receptor Distance (feet) 7 120	Estimated Shielding (dBA)	0							
		Calculated (dBA)	Results Noise Limi	ts (dBA)					Noise Lim	it Exceedanc	e (dBA)		
Equipment Compressor (air)	Total	*Lmax Leq 70.1 66.	Day Lmax Leq 1 N/A N/A 1 N/A N/A	Evening Lmax N/A N/A	Leq N/A N/A	Night Lmax N/A N/A	Leq N/A N/A	Day Lmax N/A N/A	Leq N/A N/A	Evening Lmax N/A N/A	Leq N/A N/A	Night Lmax N/A N/A	Leq N/A N/A
		Baselines (dBA)	Receptor #3										
Description Service Station (E)	Land Use Commercial	Daytime Evening 65 69	Night 5 65										
Description Compressor (air)		Impact Device Usage(%) No 44	Equipment Spec Actual Lmax Lmax (dBA) (dBA) 0 77.	Receptor Distance (feet) 7 180	Estimated Shielding (dBA)	0							
		Calculated (dBA)	Results Noise Limi	ts (dBA)					Noise Lim	it Exceedanc	e (dBA)		
Equipment Compressor (air)	Total	*Lmax Leq 66.5 62.0	Day Lmax Leq 6 N/A N/A 6 N/A N/A	Evening Lmax N/A N/A	Leq N/A N/A	Night Lmax N/A N/A	Leq N/A N/A	Day Lmax N/A N/A	Leq N/A N/A	Evening Lmax N/A N/A	Leq N/A N/A	Night Lmax N/A N/A	Leq N/A N/A

*Calculated Lmax is the Loudest value.

Sunnymead Car Wash

Construction Vibration Screening

Receptors	Distance (ft)
1 – Auto Care (W)	100
2 – Fast Food Restaurant (E)	120
3 – Service Station (E)	180

Equipment Vibratory Roller Vibratory Roller Vibratory Roller	PPVref 0.21 0.21 0.21	D 100 120 180	n 1.3 1.3 1.3	Eref	Eequip	PPV 0.0346 0.0273 0.0161
Small Bulldozer Small Bulldozer Small Bulldozer	0.003 0.003 0.003	100 120 180	1.3 1.3 1.3			0.0005 0.0004 0.0002
Loaded Truck Loaded Truck Loaded Truck	0.076 0.076 0.076	100 120 180	1.3 1.3 1.3			0.0125 0.0099 0.0058
Jackhammer Jackhammer Jackhammer	0.035 0.035 0.035	100 120 180	1.3 1.3 1.3			0.0058 0.0046 0.0027

Operation

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RESULTS: SOUND LEVELS					_		:	Sunnymea	d Car Was	h		1		
MIG								10 May 20	17					
MIG								TNM 2.5						
								Calculate	d with TNN	1 2.5				
RESULTS: SOUND LEVELS														
PROJECT/CONTRACT:		Sunnyr	nead Car V	Vash										
RUN:		Existing	g 2017											
BARRIER DESIGN:		INPUT	HEIGHTS						Average p	pavement typ	ent type shall be used unless			
									a State hi	ghway agenc	y substantiate	es the us	9	
ATMOSPHERICS:		68 deg F, 50% RH						of a different type with approval of FHWA.						
Receiver					-				1					
Name	No.	#DUs Existing No Barrier							With Barrier					
			Lden	Lden			Increase over	existing	Туре	Calculated	Noise Reduc	tion		
				Calculated	Crit'n		Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated	
								Sub'l Inc					minus	
													Goal	
			dBA	dBA	dBA		dB	dB		dBA	dB	dB	dB	
50 Feet from Roadway Centerline	1	1	0.0	73.	7	0	73.7	0	Snd Lvl	73.7	0.0)	0 0.	
Dwelling Units		# DUs	Noise Re	duction										
			Min	Avg	Мах									
			dB	dB	dB									
All Selected		1	0.0) 0.0)	0.0								
All Impacted		1	0.0) 0.0)	0.0	1							
All that meet NR Goal		1	0.0	0.0)	0.0	1							

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RESULTS: SOUND LEVELS								Sunnymea	d Car Was	h			
MIG								10 May 20	17				
MIG								TNM 2.5					
								Calculate	d with TNN	1 2.5			
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		Sunnyr	nead Car V	Vash									
RUN:		Plus Pr	oject 2017										
BARRIER DESIGN:		INPUT	HEIGHTS						Average p	avement typ	e shall be use	d unless	
											y substantiate		
ATMOSPHERICS:		68 deg	F, 50% RH	1							approval of F		
Receiver													
Name	No.	#DUs	Existing	No Barrier						With Barrier	,		
			Lden	Lden			Increase over	existing	Туре	Calculated	Noise Reduc	ction	
				Calculated	Crit'n		Calculated	Crit'n	Impact	Lden	Calculated	Goal	Calculated
			ĺ					Sub'l Inc					minus
													Goal
			dBA	dBA	dBA		dB	dB		dBA	dB	dB	dB
50 Feet from Roadway Centerline		1 1	0.0) 73	.8	0	73.8	C	Snd Lvl	73.8	3 0.0)	0 0.
Dwelling Units		# DUs	Noise Re	duction									
			Min	Avg	Max								
			dB	dB	dB								
All Selected		1	0.0) 0	.0	0.0	1						
All Impacted		1	0.0	0 0	.0	0.0							
All that meet NR Goal		1	0.0	0 0	.0	0.0							

2.j



PRELIMINARY GEOTECHNICAL ENGINEERING INVESTIGATION

PROPOSED WATER DROPS CARWASH SUNNYMEAD BOULEVARD & HEACOCK STREET APN 292-160-023 MORENO VALLEY, CALIFORNIA PEN16-0113

> SALEM PROJECT NO. 3-216-1097 OCTOBER 24, 2016

> > PREPARED FOR:

MR. BIJAN SHAHMORADI P&N CONSTRUCTION, TRI-MILLENNIUM PROPERTIES 8730 WILSHIRE BOULEVARD, SUITE 202 BEVERLEY HILLS, CA 90211

PREPARED BY:

SALEM ENGINEERING GROUP, INC. 11650 MISSION PARK DR., #108 RANCHO CUCAMONGA, CA 91730 P: (909) 980-6455 F: (909) 980-6435 www.salemeng.com

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2.k



11650 Mission Park Dr., #108 Rancho Cucamonga, CA 91730 Phone (909) 980-6455 Fax (909) 980-6435

October 24, 2016

Project No. 3-216-1097

Mr. Bijan Shahmoradi **P&N Construction, Tri-Millennium Properties** 8730 Wilshire Boulevard, Suite 202 Beverley Hills, CA 90211

SUBJECT: PRELIMINARY GEOTECHNICAL ENGINEERING INVESTIGATION PROPOSED WATER DROPS CARWASH SUNNYMEAD BOULEVARD & HEACOCK STREET APN 292-160-023 MORENO VALLEY, CALIFORNIA

Dear Mr. Shahmoradi:

At your request and authorization, SALEM Engineering Group, Inc. (SALEM) has prepared this Preliminary Geotechnical Engineering Investigation report for the Proposed Water Drops Carwash to be located at the subject site.

The accompanying report presents our findings, conclusions, and recommendations regarding the geotechnical aspects of designing and constructing the project as presently proposed. In our opinion, the proposed project is feasible from a geotechnical viewpoint provided our recommendations are incorporated into the design and construction of the project. We appreciate the opportunity to assist you with this project. Should you have questions regarding this report or need additional information, please contact the undersigned at (909) 980-6455.

Respectfully Submitted,

SALEM ENGINEERING GROUP, INC.

Arrigo

Clarence Jiang, GE Senior Geotechnical Engineer RGE 2477



R. Sammy Salem, MŚ, PE, GE Principal Engineer RCE 52762 / RGE 2549



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APPENDIX C - EARTHWORK AND PAVEMENT SPECIFICATIONS

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PRELIMINARY GEOTECHNICAL ENGINEERING INVESTIGATION PROPOSED WATER DROPS CARWASH NEAR SUNNYMEAD BOULEVARD & HEACOCK STREET APN 292-160-023 MORENO VALLEY, CALIFORNIA

1. PURPOSE AND SCOPE

This report presents the results of our Preliminary Geotechnical Engineering Investigation for the Proposed Water Drops Carwash to be located near the intersection of Sunnymead Boulevard and Heacock Street in Moreno Valley, California (see Figure 1, Vicinity Map).

The purpose of our preliminary geotechnical engineering investigation was to observe and sample the subsurface conditions encountered at the site, and provide conclusions and recommendations relative to the geotechnical aspects of constructing the project as presently proposed.

The scope of this investigation included a field exploration, laboratory testing, engineering analysis and the preparation of this report. Our field exploration was performed on October 10, 2016 and included the drilling of five (5) small-diameter soil borings to a maximum depth of 36 feet at the site. Additionally, two (2) percolation tests were performed on October 11, 2016 at depths of approximately 10 to 20 feet below existing grade for determination of the percolation rate. The locations of the soil borings and percolation tests are depicted on Figure 2, Site Plan. A detailed discussion of our field investigation, exploratory boring logs and percolation test results are presented in Appendix A.

Laboratory tests were performed on selected soil samples obtained during the investigation to evaluate pertinent physical properties for engineering analyses. Appendix B presents the laboratory test results in tabular and graphic format.

The recommendations presented herein are based on analysis of the data obtained during the investigation and our experience with similar soil and geologic conditions.

If project details vary significantly from those described herein, SALEM should be contacted to determine the necessity for review and possible revision of this report. Earthwork and Pavement Specifications are presented in Appendix C. If text of the report conflict with the specifications in Appendix C, the recommendations in the text of the report have precedence.

2. PROJECT DESCRIPTION

Based on information provided to us, we understand that the proposed development of the site will include construction of a carwash facility on a vacant undeveloped land. The facility will include a carwash tunnel building, a vacuum canopy, automated cashier pay stations, and a trash enclosure. On-site parking and





landscaping are planned to be associated with the development. Maximum wall load is expected to be on the order of 2.5 kips per linear foot. Maximum column load is expected to be on the order of 50 kips. Floor slab soil bearing pressure is expected to be on the order of 150 psf.

Concrete and asphaltic concrete pavement for parking area, customers travel lanes, and truck lane are to be designed for standard duty and heavy-duty traffic loading based on an Equivalent Single Axle Load (ESAL) of 18 kips, a maximum load of 60,000 ESAL and a design life of 20 years. The pavement design recommendations provided herein are based on the State of California Department (CALTRANS) design manual.

A site grading plan was not available at the time of preparation of this proposal. As the existing project area is essentially level, we anticipate that cuts and fills during the earthwork will be minimal and limited to providing a level building pad and positive site drainage. In the event that changes occur in the nature or design of the project, the conclusions and recommendations contained in this report will not be considered valid unless the changes are reviewed and the conclusions of our report are modified. The site configuration and locations of proposed improvements are shown on the Site Plan, Figure 1.

3. SITE LOCATION AND DESCRIPTION

The site is rectangular in shape and encompasses approximately 1.68 acres. The subject site is located near the intersection of Sunnymead Boulevard and Heacock Street in the City of Moreno Valley, California (see Vicinity Map, Figure 1). The site is currently vacant with sparse vegetation and debris. The site is predominantly surrounded by commercial and residential developments. The site is relatively flat with no major changes in grade. The average elevation of the site is approximately 1,644 feet above mean sea level (AMSL), based on Google Earth Imagery.

4. FIELD EXPLORATION

Our field exploration consisted of site surface reconnaissance and subsurface exploration. The exploratory test borings (B-1 through B-5) were drilled on October 10, 2016 in the area shown on the Site Plan, Figure 2. The test borings were advanced with an 8-inch diameter hollow stem auger and a 4-inch diameter solid-flight auger rotated by a truck-mounted CME-45C drill rig. The test borings were advanced to a maximum depth of 36 feet below existing grade. Drilling was limited due to auger refusal on the dense soil.

The materials encountered in the test borings were visually classified in the field, and logs were recorded by a field engineer and stratification lines were approximated on the basis of observations made at the time of drilling. Visual classification of the materials encountered in the test borings were generally made in accordance with the Unified Soil Classification System (ASTM D2487). A soil classification chart and key to sampling is presented on the Unified Soil Classification Chart, in Appendix "A." The logs of the test borings are presented in Appendix "A." The Boring Logs include the soil type, color, moisture content, dry density, and the applicable Unified Soil Classification System symbol. The location of the test borings were determined by measuring from features shown on the Site Plan, provided to us. Hence, accuracy can be implied only to the degree that this method warrants. The actual boundaries between different soil types may be gradual and soil conditions may vary. For a more detailed description of the materials encountered, the Boring Logs in Appendix "A" should be consulted.



Soil samples were obtained from the test borings at the depths shown on the logs of borings. The MCS samples were recovered and capped at both ends to preserve the samples at their natural moisture content; SPT samples were recovered and placed in a sealed bag to preserve their natural moisture content. The borings were backfilled with soil cuttings after completion of the drilling.

5. LABORATORY TESTING

Laboratory tests were performed on selected soil samples to evaluate their physical characteristics and engineering properties. The laboratory-testing program was formulated with emphasis on the evaluation of natural moisture, density, shear strength, consolidation potential, expansion index, maximum density and optimum moisture determination, and gradation of the materials encountered.

In addition, chemical tests were performed to evaluate the corrosivity of the soils to buried concrete and metal. Details of the laboratory test program and the results of laboratory test are summarized in Appendix "B." This information, along with the field observations, was used to prepare the final boring logs in Appendix "A."

6. GEOLOGIC SETTING

The subject site is located within the Peninsular Range Geomorphic Province, an area characterized by active northeast trending strike slip faults, including the San Jacinto to the northwest, and the Elsinore to the southwest. The project site is situated between the Santa Rosa Mountains and the San Jacinto Mountains to the east; and Santa Ana Mountains to the west and south. The near-surface deposits in the vicinity of the subject site are comprised of recent alluvium consisting of unconsolidated sands, silt, and clays derived from erosion of local mountain ranges. Deposits encountered on the subject site during exploratory drilling are discussed in detail in this report.

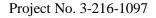
7. GEOLOGIC HAZARDS

7.1 Faulting and Seismicity

The Peninsular Range has historically been a province of relatively high seismic activity. The nearest faults to the project site are associated with the San Jacinto Fault system located approximately 4.2 miles from the site. There are no known active fault traces in the project vicinity. Based on mapping and historical seismicity, the seismicity of the Peninsular Range has been generally considered high by the scientific community.

The project area is not within an Alquist-Priolo Earthquake Fault (Special Studies) Zone and will not require a special site investigation by an Engineering Geologist. Soils on site are classified as Site Class D in accordance with Chapter 16 of the California Building Code. The proposed structures are determined to be in Seismic Design Category D.

To determine the distance of known active faults within 100 miles of the site, we used the United States Geological Survey (USGS) web-based application 2008 National Seismic Hazard Maps - Fault Parameters. Site latitude is 33.9402° North; site longitude is -117.2450° West. The ten closest active faults are summarized below in Table 7.1.





Fault Name	Distance to Site (miles)	Maximum Earthquake Magnitude, M _w	
San Jacinto; SBV+SJV+A+CC+B+SM	4.2	7.9	
San Jacinto; SBV	5.3	7.1	
San Jacinto; A+CC+B+SM	8.5	7.6	
S. San Andreas;	13.7	8.2	
PK+CH+CC+BB+NM+SM+NSB+SSB+BG+CO			
S. San Andreas; PK+CH+CC+BB+NM+SM+NSB	14.5	8.0	
Elsinore; W+GI+T+J+CM	18.4	7.8	
Cucamonga	20.1	6.7	
Chino, alt 2	20.1	6.8	
Elsinore; T+J+CM	20.5	7.6	

TABLE 7.1 REGIONAL FAULT SUMMARY

The faults tabulated above and numerous other faults in the region are sources of potential ground motion. However, earthquakes that might occur on other faults throughout California are also potential generators of significant ground motion and could subject the site to intense ground shaking.

7.2 Surface Fault Rupture

The site is not within a currently established State of California Earthquake Fault Zone for surface fault rupture hazards. No active faults with the potential for surface fault rupture are known to pass directly beneath the site. Therefore, the potential for surface rupture due to faulting occurring beneath the site during the design life of the proposed development is considered low.

7.3 Ground Shaking

We used the USGS web-based application *US Seismic Design Maps* to estimate the peak ground acceleration adjusted for site class effects (PGA_M). Because of the proximity to the subject site and the maximum probable events for these faults, it appears that a maximum probable event along the fault zones could produce a peak horizontal acceleration of approximately 0.647g (2% probability of being exceeded in 50 years). While listing PGA is useful for comparison of potential effects of fault activity in a region, other considerations are important in seismic design, including frequency and duration of motion and soil conditions underlying the site.

7.4 Liquefaction

Soil liquefaction is a state of soil particles suspension caused by a complete loss of strength when the effective stress drops to zero. Liquefaction normally occurs under saturated conditions in soils such as sand in which the strength is purely frictional. Primary factors that trigger liquefaction are: moderate to strong ground shaking (seismic source), relatively clean, loose granular soils (primarily poorly graded sands and silty sands), and saturated soil conditions (shallow groundwater). Due to the increasing overburden pressure with depth, liquefaction of granular soils is generally limited to the upper 50 feet of a soil profile. However, liquefaction has occurred in soils other than clean sand.

The soils encountered within the depth of 50 feet on the project site consisted predominately of silty sand with varying amounts of clay, silty sand/sandy silt with trace clay, and sandy silt with varying amounts



of clay. The depth of groundwater within the vicinity of the site is estimated to be at a depth of approximately between 70 to 90 feet below ground surface according to the State Water Resources Control Board Geotracker website (http://geotracker.waterboards.ca.gov) records of Fastrip #13 (T0606500482) leaking underground storage tank (LUST) site, located at 23991 Sunnymead Boulevard, which is located approximately 150 south of subject site, and on the south side of Sunnymead Boulevard. The Riverside County Office of Information Technology GIS website: http://mmc.rivcoit.org/MMC_Public/Viewer=MMC_Public does not show the subject site to be in a high or moderate

liquefaction potential area.

Low to very low cohesion strength is commonly associated with the sandy soil profile at the site. A seismic hazard, which could cause damage to the proposed development during seismic shaking, is the post-liquefaction settlement of liquefied sands. The site was evaluated for liquefaction potential. The liquefaction analysis indicated that the soils had a low potential for liquefaction under seismic conditions, therefore no mitigation measures are warranted.

7.5 Lateral Spreading

Lateral spreading is a phenomenon in which soils move laterally during seismic shaking and is often associated with liquefaction. The amount of movement depends on the soil strength, duration and intensity of seismic shaking, topography, and free face geometry. Due to the relatively flat site topography and low liquefaction potential, we judge the likelihood of lateral spreading to be low.

7.6 Landslides

There are no known landslides at the site, nor is the site in the path of any known or potential landslides. We do not consider the potential for a landslide to be a hazard to this project.

7.7 Tsunamis and Seiches

The site is not located within a coastal area. Therefore, tsunamis (seismic sea waves) are not considered a significant hazard at the site. Seiches are large waves generated in enclosed bodies of water in response to ground shaking. No major water-retaining structures are located immediately up gradient from the project site. Flooding from a seismically-induced seiche is considered unlikely.

8. SOIL AND GROUNDWATER CONDITIONS

8.1 Subsurface Conditions

The subsurface conditions encountered appear typical of those found in the geologic region of the site. In general, the soils within the depth of exploration consisted of alluvium deposits of medium dense to very dense silty sand with varying amounts of clay, medium dense to very dense silty sand/sandy silt with trace clay, and stiff to hard sandy silt.

Fill materials may be present onsite beyond our boring location. Undocumented fill materials are not suitable to support any future structures and should be replaced with Engineered Fill. The extent and consistency of the fills should be verified during site construction. Prior to fill placement, Salem Engineering Group, Inc. should inspect the bottom of the excavation to verify the fill condition.





The soils were classified in the field during the drilling and sampling operations. The stratification lines were approximated by the field engineer on the basis of observations made at the time of drilling. The actual boundaries between different soil types may be gradual and soil conditions may vary. For a more detailed description of the materials encountered, the Boring Logs in Appendix "A" should be consulted. The Boring Logs include the soil type, color, moisture content, dry density, and the applicable Unified Soil Classification System symbol. The locations of the test borings were determined by measuring from feature shown on the Site Plan, provided to us. Hence, accuracy can be implied only to the degree that this method warrants.

8.2 Groundwater

The test boring locations were checked for the presence of groundwater during and after the drilling operations. Free groundwater was not encountered during this investigation. The depth of groundwater within the vicinity of the site is estimated to be at a depth of approximately between 70 to 90 feet below ground surface according to the State Water Resources Control Board Geotracker website (<u>http://geotracker.waterboards.ca.gov</u>) records of Fastrip #13 (T0606500482) leaking underground storage tank (LUST) site, located at 23991 Sunnymead Boulevard, which is located approximately 150 south of the subject site.

It should be recognized that water table elevations may fluctuate with time, being dependent upon seasonal precipitation, irrigation, land use, localized pumping, and climatic conditions as well as other factors. Therefore, water level observations at the time of the field investigation may vary from those encountered during the construction phase of the project. The evaluation of such factors is beyond the scope of this report.

8.3 Soil Corrosion Screening

Excessive sulfate in either the soil or native water may result in an adverse reaction between the cement in concrete and the soil. The 2011 Edition of ACI 318 (ACI 318) has established criteria for evaluation of sulfate and chloride levels and how they relate to cement reactivity with soil and/or water.

A soil sample was obtained from the project site and was tested for the evaluation of the potential for concrete deterioration or steel corrosion due to attack by soil-borne soluble salts and soluble chloride. The water-soluble sulfate concentration in the saturation extract from the soil sample was detected to be 145 mg/kg. ACI 318 Tables 4.2.1 and 4.3.1 outline exposure categories, classes, and concrete requirements by exposure class. ACI 318 requirements for site concrete based upon soluble sulfate are summarized in Table 8.3 below.

Water Soluble Sulfate (SO4) in Soil, Percentage by Weight	Exposure Severity	Exposure Class	Maximum w/cm Ratio	Minimum Concrete Compressive Strength	Cementations Materials Type
0.0145	Not Applicable	SO	N/A	2,500 psi	No Restriction

TABLE 8.3WATER SOLUBLE SULFATE EXPOSURE REQUIREMENTS





The water-soluble chloride concentration detected in saturation extract from the soil samples was 166 mg/kg. This level of chloride concentration is not considered severely corrosive. It is recommended that a qualified corrosion engineer be consulted regarding protection of buried steel or ductile iron piping and conduit or, at a minimum, applicable manufacturer's recommendations for corrosion protection of buried metal pipe be closely followed.

8.4 Percolation Testing

Two percolation tests (P-1 and P-2) were performed within assumed infiltration areas and were conducted in accordance with in accordance with the guidelines established by the County of Riverside. The approximate locations of the percolation tests are shown on the attached Site Plan, Figure 2.

Eight-inch diameter boreholes were advanced to the depths shown on the percolation test worksheets. The holes were pre-saturated a minimum of 18 hours and maximum of 24 hours before percolation testing commenced. Percolation rates were measured by filling the test holes with clean water and measuring the water drops at a certain time interval.

The percolation rate data are presented in tabular format at the end of this Report. The difference in the percolation rates are reflected by the varied type of soil materials at the bottom of the test holes. The test results are shown on the table below.

Test No.	Depth (feet)	MeasuredTestedPercolation RateInfiltration Rate*(min/inch)(inch/hour)		Soil Type
P-1	10	31.3	0.14	Silty SAND /Sandy SILT (SM/ML) with clay
P-2	20	20.8	0.24	Silty SAND (SM) with clay

* Tested infiltration Rate = ($\Delta H 60 r$) / ($\Delta t(r + 2H_{avg})$)

The soil infiltration or percolation rates are based on tests conducted with clear water. The infiltration/percolation rates may vary with time as a result of soil clogging from water impurities. The infiltration/percolation rates will deteriorate over time due to the soil conditions and an appropriate factor of safety (FS) may be applied. The owner or civil engineer may elect to use a lower FS for the design; however, more frequent maintenance will be expected. The soils may also become less permeable to impermeable if the soil is compacted. Thus, periodic maintenance consisting of clearing the bottom of the drainage system of clogged soils should be expected.

The infiltration/percolation rate may become slower if the surrounding soil is wet or saturated due to prolonged rainfalls. Additional percolation tests may be conducted at bottom of the drainage system during construction to verify the infiltration/percolation rate. Groundwater, if closer to the bottom of the drainage system, will also reduce the infiltration/percolation rate.

The scope of our services did not include a groundwater study and was limited to the performance of percolation testing and soil profile description, and the submitted data only. Our services did not include those associated with septic system design. Neither did services include an Environmental Site Assessment



for the presence or absence of hazardous and/or toxic materials in the soil, groundwater, or atmosphere; or the presence of wetlands.

Any statements, or absence of statements, in this report or on any boring logs regarding odors, unusual or suspicious items, or conditions observed, are strictly for descriptive purposes and are not intended to convey engineering judgment regarding potential hazardous and/or toxic assessment.

The geotechnical engineering information presented herein is based upon professional interpretation utilizing standard engineering practices. The work conducted through the course of this investigation, including the preparation of this report, has been performed in accordance with the generally accepted standards of geotechnical engineering practice, which existed in the geographic area at the time the report was written. No other warranty, express or implied, is made.

Please be advised that when performing percolation testing services in relatively small diameter borings, that the testing may not fully model the actual full scale long term performance of a given site. This is particularly true where percolation test data is to be used in the design of large infiltration system such as may be proposed for the site.

The measured percolation rate includes dispersion of the water at the sidewalls of the boring as well as into the underlying soils. Subsurface conditions, including percolation rates, can change over time as finegrained soils migrate. It is not warranted that such information and interpretation cannot be superseded by future geotechnical engineering developments. We emphasize that this report is valid for the project outlined above and should not be used for any other sites.

9. CONCLUSIONS AND RECOMMENDATIONS

9.1 General

- 9.1.1 Based upon the data collected during this investigation, and from a geotechnical engineering standpoint, it is our opinion that the site is suitable for the proposed construction of improvements at the site as planned, provided the recommendations contained in this report are incorporated into the project design and construction. Conclusions and recommendations provided in this report are based on our review of available literature, analysis of data obtained from our field exploration and laboratory testing program, and our understanding of the proposed development at this time.
- 9.1.2 The primary geotechnical constraints identified in our investigation is the presence of potentially compressible material at the site. Recommendations to mitigate the effects of these soils are provided in this report.
- 9.1.3 Fill materials may be present onsite beyond our boring location. The fill materials consisted of loose to medium dense silty sand. Undocumented fill materials are not suitable to support any future structures and should be replaced with Engineered Fill. The extent and consistency of the fills should be verified during site construction. Prior to fill placement, Salem Engineering Group, Inc. should inspect the bottom of the excavation to verify the fill condition.



- 9.1.4 Site demolition activities shall include removal of all surface obstructions not intended to be incorporated into final site design. In addition, underground buried structures and/or utility lines encountered during demolition and construction should be properly removed and the resulting excavations backfilled with Engineered Fill. It is suspected that possible demolition activities of the existing structures may disturb the upper soils. After demolition activities, it is recommended that disturbed soils be removed and/or recompacted.
- 9.1.5 The near-surface onsite soils are moisture-sensitive and are moderately compressible (collapsible soil) under saturated conditions. Structures within the project vicinity have experienced excessive post-construction settlement, when the foundation soils become near saturated. The collapsible or weak soils should be removed and recompacted according to the recommendations in the Grading section of this report.
- 9.1.6 Based on the subsurface conditions at the site and the anticipated structural loading, we anticipate that the proposed building may be supported using conventional shallow foundations or deep foundations provided that the recommendations presented herein are incorporated in the design and construction of the project.
- 9.1.7 Provided the site is graded in accordance with the recommendations of this report and foundations constructed as described herein, we estimate that total settlement due to static loads utilizing conventional shallow foundations for the proposed building will be within 1 inch and corresponding differential settlement will be less than 1 inch.
- 9.1.8 SALEM shall review the project grading and foundation plans prior to final design submittal to assess whether our recommendations have been properly implemented and evaluate if additional analysis and/or recommendations are required. If SALEM is not provided plans and specifications for review, we cannot assume any responsibility for the future performance of the project.
- 9.1.9 SALEM shall be present at the site during site demolition and preparation to observe site clearing/demolition, preparation of exposed surfaces after clearing, and placement, treatment and compaction of fill material.
- 9.1.10 SALEM's observations should be supplemented with periodic compaction tests to establish substantial conformance with these recommendations. Moisture content of footings and slab subgrade should be tested immediately prior to concrete placement. SALEM should observe foundation excavations prior to placement of reinforcing steel or concrete to assess whether the actual bearing conditions are compatible with the conditions anticipated during the preparation of this report.

9.2 Seismic Design Criteria

9.2.1 For seismic design of the structures, and in accordance with the seismic provisions of the 2013 CBC, our recommended parameters are shown below. These parameters are based on Probabilistic Ground Motion of 2% Probability of Exceedance in 50 years. The Site Class was determined based on the results of our field exploration.



Seismic Item	Symbol	Value	2010 ASCE 7 or 2013 CBC Reference
Site Coordinates (Datum = NAD 83)		33.9402 Lat -117.2450 Lon	
Site Class		D	ASCE 7 Table 20.3
Soil Profile Name		Stiff Soil	ASCE 7 Table 20.3
Risk Category		II	CBC Table 1604.5
Site Coefficient for PGA	F _{PGA}	1.000	ASCE 7 Table 11.8-1
Peak Ground Acceleration (adjusted for Site Class effects)	PGA _M	0.647	ASCE 7 Equation 11.8-1
Seismic Design Category	SDC	D	ASCE 7 Table 11.6-1 & 2
Mapped Spectral Acceleration (Short period - 0.2 sec)	Ss	1.644 g	CBC Figure 1613.3.1(1-6)
Mapped Spectral Acceleration (1.0 sec. period)	\mathbf{S}_1	0.715 g	CBC Figure 1613.3.1(1-6)
Site Class Modified Site Coefficient	Fa	1.000	CBC Table 1613.3.3(1)
Site Class Modified Site Coefficient	F_{v}	1.500	CBC Table 1613.3.3(2)
MCE Spectral Response Acceleration (Short period - 0.2 sec) $S_{MS} = F_a S_S$	S _{MS}	1.644 g	CBC Equation 16-37
MCE Spectral Response Acceleration (1.0 sec. period) $S_{M1} = F_v S_1$	S _{M1}	1.073 g	CBC Equation 16-38
Design Spectral Response Acceleration $S_{DS}=\frac{2}{3}S_{MS}$ (short period - 0.2 sec)	S _{DS}	1.096 g	CBC Equation 16-39
Design Spectral Response Acceleration $S_{D1}=\frac{2}{3}S_{M1}$ (1.0 sec. period)	S_{D1}	0.715 g	CBC Equation 16-40

TABLE 9.2.12013 CBC SEISMIC DESIGN PARAMETERS

9.2.2 Conformance to the criteria in the above table for seismic design does not constitute any kind of guarantee or assurance that significant structural damage or ground failure will not occur if a large earthquake occurs. The primary goal of seismic design is to protect life, not to avoid all damage, since such design may be economically prohibitive.

9.3 Soil and Excavation Characteristics

- 9.3.1 Based on the soil conditions encountered in our soil borings, the onsite soils can be excavated with moderate effort using conventional heavy-duty excavation equipment.
- 9.3.2 It is the responsibility of the contractor to ensure that all excavations and trenches are properly shored and maintained in accordance with applicable Occupational Safety and Health Administration (OSHA) rules and regulations to maintain safety and maintain the stability of adjacent existing improvements.
- 9.3.3 The upper soils are moisture-sensitive and moderately collapsible under saturated conditions. These soils, in their present condition, possess moderate risk to construction in terms of possible post-construction movement of the foundations and floor systems if no mitigation measures are



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employed. Accordingly, measures are considered necessary to reduce anticipated expansion and collapse potential. As recommended in Section 9.5, the collapsible soils should be overexcavated and recompacted. Mitigation measures will not eliminate post-construction soil movement, but will reduce the soil movement. Success of the mitigation measures will depend on the thoroughness of the contractor in dealing with the soil conditions.

9.3.4 The near surface soils identified as part of our investigation are, generally, slightly moist to moist due to the absorption characteristics of the soil. Earthwork operations may encounter very moist unstable soils which may require removal to a stable bottom. Exposed native soils exposed as part of site grading operations shall not be allowed to dry out and should be kept continuously moist prior to placement of subsequent fill.

9.4 Materials for Fill

- 9.4.1 Excavated soils generated from cut operations at the site are suitable for use as general Engineered Fill in structural areas, provided they have an Expansion Index of 20 or less, do not contain deleterious matter, organic material, or rock material larger than 3 inches in maximum dimension.
- 9.4.2 Import soil shall be well-graded, slightly cohesive silty fine sand or sandy silt, with relatively impervious characteristics when compacted. A clean sand or very sandy soil is not acceptable for this purpose. This material should be approved by the Engineer prior to use and should typically possess the soil characteristics summarized below in Table 9.4.2.

Minimum Percent Passing No. 200 Sieve	20
Maximum Percent Passing No. 200 Sieve	50
Minimum Percent Passing No. 4 Sieve	80
Maximum Particle Size	3"
Maximum Plasticity Index	12
Maximum CBC Expansion Index	20

TABLE 9.4.2IMPORT FILL REQUIREMENTS

- 9.4.3 The preferred materials specified for Engineered Fill are suitable for most applications with the exception of exposure to erosion. Project site winterization and protection of exposed soils during the construction phase should be the sole responsibility of the Contractor, since they have complete control of the project site.
- 9.4.4 Environmental characteristics and corrosion potential of import soil materials should also be considered.
- 9.4.5 Proposed import materials should be sampled, tested, and approved by SALEM prior to its transportation to the site.



9.5 Grading

- 9.5.1 A representative of our firm should be present during all site clearing and grading operations to test and observe earthwork construction. This testing and observation is an integral part of our service as acceptance of earthwork construction is dependent upon compaction of the material and the stability of the material. The Geotechnical Engineer may reject any material that does not meet compaction and stability requirements. Further recommendations of this report are predicated upon the assumption that earthwork construction will conform to recommendations set forth in this section as well as other portions of this report.
- 9.5.2 A preconstruction conference should be held at the site prior to the beginning of grading operations with the owner, contractor, civil engineer and geotechnical engineer in attendance.
- 9.5.3 Site preparation should begin with removal of existing surface/subsurface structures, underground utilities (as required), any existing uncertified fill, and debris. Excavations or depressions resulting from site clearing operations, or other existing excavations or depressions, should be restored with Engineered Fill in accordance with the recommendations of this report.
- 9.5.4 Surface vegetation should be removed by stripping to a sufficient depth to remove organic-rich topsoil. The upper 2 to 4 inches of the soils containing, vegetation, roots and other objectionable organic matter encountered at the time of grading should be stripped and removed from the surface. Deeper stripping may be required in localized areas. The stripped vegetation will not be suitable for use as Engineered Fill but may be stockpiled and reused in landscape or non-structural areas or exported from the site.
- 9.5.5 To minimize post-construction soil movement and provide uniform support for the proposed structures, it is recommended that the overexcavation and recompaction within the proposed building area be performed to a minimum depth of **two (2)** feet below existing grade or proposed grade, whichever is deeper.
- 9.5.6 The overexcavation and recompaction should also extend laterally to a minimum of 5 feet beyond the outer edges of the proposed footings except in the areas where the lateral extension is restricted by the property lines. Shorings or slot cuts will be required for vertical cut along the property lines or existing footings.
- 9.5.7 Any fill materials encountered during grading should be removed and replaced with engineered fill. The actual depth of the overexcavation and recompaction should be determined by our field representative during construction.
- 9.5.8 Prior to placement of fill soils, the upper 10 to 12 inches of native subgrade soils should be scarified, moisture-conditioned to no less than the optimum moisture content and recompacted to a minimum of 95 percent (90 percent for fine-grained cohesive soils) of the maximum dry density based on ASTM D1557 Test Method.
- 9.5.9 All Engineered Fill (including scarified ground surfaces and backfill) should be placed in thin lifts to allow for adequate bonding and compaction (typically 6 to 8 inches in loose thickness).



- 9.5.10 Engineered Fill soils should be placed, moisture conditioned to near optimum moisture content, and compacted to at least 95% (90% for fine-grained cohesive soils) relative compaction.
- 9.5.11 An integral part of satisfactory fill placement is the stability of the placed lift of soil. If placed materials exhibit excessive instability as determined by a SALEM field representative, the lift will be considered unacceptable and shall be remedied prior to placement of additional fill material. Additional lifts should not be placed if the previous lift did not meet the required dry density or if soil conditions are not stable.
- 9.5.12 Within pavement areas, it is recommended that scarification, moisture conditioning and recompaction be performed to at least 12 inches below existing grade or finish grade, whichever is deeper. In addition, the upper 12 inches of final pavement subgrade, whether completed at-grade, by excavation, or by filling, should be uniformly moisture-conditioned to no less than the optimum moisture content and compacted to at least 95% (90% for fine-grained cohesive soils) relative compaction.
- 9.5.13 Final pavement subgrade should be finished to a smooth, unyielding surface. We further recommend proof-rolling the subgrade with a loaded water truck (or similar equipment with high contact pressure) to verify the stability of the subgrade prior to placing aggregate base.
- 9.5.14 The most effective site preparation alternatives will depend on site conditions prior to grading. We should evaluate site conditions and provide supplemental recommendations immediately prior to grading, if necessary.
- 9.5.15 We do not anticipate groundwater or seepage to adversely affect construction if conducted during the drier moths of the year (typically summer and fall). However, groundwater and soil moisture conditions could be significantly different during the wet season (typically winter and spring) as surface soil becomes wet; perched groundwater conditions may develop. Grading during this time period will likely encounter wet materials resulting in possible excavation and fill placement difficulties. Project site winterization consisting of placement of aggregate base and protecting exposed soils during construction should be performed. If the construction schedule requires grading operations during the wet season, we can provide additional recommendations as conditions warrant.
- 9.5.16 The wet soils may become non conducive to site grading as the upper soils yield under the weight of the construction equipment. Therefore, mitigation measures should be performed for stabilization. Typical remedial measures include: discing and aerating the soil during dry weather; mixing the soil with dryer materials; removing and replacing the soil with an approved fill material or placement of crushed rocks or aggregate base material; or mixing the soil with an approved lime or cement product.

The most common remedial measure of stabilizing the bottom of the excavation due to wet soil condition is to reduce the moisture of the soil to near the optimum moisture content by having the subgrade soils scarified and aerated or mixed with drier soils prior to compacting. However, the drying process may require an extended period of time and delay the construction operation. To expedite the stabilizing process, crushed rock may be utilized for stabilization provided this method is approved by the owner for the cost purpose. If the use of crushed rock is considered,



it is recommended that the upper soft and wet soils be replaced by 6 to 24 inches of ³/₄-inch to 1-inch crushed rocks. The thickness of the rock layer depends on the severity of the soil instability. The recommended 6 to 24 inches of crushed rock material will provide a stable platform. It is further recommended that lighter compaction equipment be utilized for compacting the crushed rock. A layer of geofabric is recommended to be placed on top of the compacted crushed rock to minimize migration of soil particles into the voids of the crushed rock, resulting in soil movement. Although it is not required, the use of geogrid (e.g. Tensar BX 1100 or TX 140) below the crushed rock will enhance stability and reduce the required thickness of crushed rock necessary for stabilization. Our firm should be consulted prior to

9.6 Shallow Foundations

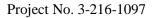
9.6.1 The site is suitable for use of conventional shallow foundations consisting of continuous footings and isolated pad footings bearing in properly compacted Engineered Fill.

implementing remedial measures to provide appropriate recommendations.

- 9.6.2 The bearing wall footings considered for the structures should be continuous with a minimum width of 15 inches and extend to a minimum depth of 18 inches below the lowest adjacent grade. Isolated column footings should have a minimum width of 24 inches and extend a minimum depth of 18 inches below the lowest adjacent grade. The bottom of footing excavations should be maintained free of loose and disturbed soil. Footing concrete should be placed into a neat excavation.
- 9.6.3 For design purposes, total settlement due to static loading on the order of 1.0 inches may be assumed for shallow footings. Differential settlement due to static loading, along a 20-foot exterior wall footing or between adjoining column footings, should be ¹/₂ inch, producing an angular distortion of 0.002. Most of the settlement is expected to occur during construction as the loads are applied. However, additional post-construction settlement may occur if the foundation soils are flooded or saturated. The footing excavations should not be allowed to dry out any time prior to pouring concrete.
- 9.6.4 Footings proportioned as recommended above may be designed for the maximum allowable soil bearing pressures shown in the table below.

Loading Condition	Allowable Bearing
Dead Load Only	2,500 psf
Dead-Plus-Live Load	3,000 psf
Total Load, Including Wind or Seismic Loads	4,000 psf

- 9.6.5 Resistance to lateral footing displacement can be computed using an allowable coefficient of friction factor of 0.38 acting between the base of foundations and the supporting native subgrade.
- 9.6.6 Lateral resistance for footings can alternatively be developed using an allowable equivalent fluid passive pressure of 350 pounds per cubic foot acting against the appropriate vertical native footing faces. The frictional and passive resistance of the soil may be combined without



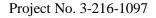


reduction in determining the total lateral resistance. An increase of one-third is permitted when using the alternate load combination in Section 1605.3.2 of the 2012 IBC/2013 CBC that includes wind or earthquake loads.

- 9.6.7 Underground utilities running parallel to footings should not be constructed in the zone of influence of footings. The zone of influence may be taken to be the area beneath the footing and within a 1:1 plane extending out and down from the bottom edge of the footing.
- 9.6.8 The foundation subgrade should be sprinkled as necessary to maintain a moist condition without significant shrinkage cracks as would be expected in any concrete placement. Prior to placing rebar reinforcement, foundation excavations should be evaluated by a representative of SALEM for appropriate support characteristics and moisture content. Moisture conditioning may be required for the materials exposed at footing bottom, particularly if foundation excavations are left open for an extended period.

9.7 Caisson Foundations

- 9.7.1 The caisson foundation should have a minimum depth of 8 feet below the lowest adjacent grade.
- 9.7.2 The caissons may be designed using an allowable sidewall friction of 300 psf. This value is for dead-plus-live loads. An allowable end bearing capacity of 5,000 psf may be used provided that the bottom of the caisson is cleaned with the use of a clean-out bucket or equivalent and inspected by our representative prior to placement of reinforcement and concrete. An increase of one-third is permitted when using the alternate load combination in Section 1605.3.2 that includes wind or earthquake loads.
- 9.7.3 Uplift loads can be resisted by caissons using an allowable sidewall friction of 200 psf of the surface area and the weight of the caisson.
- 9.7.4 The total settlement of the caisson footing is not expected to exceed 1 inch. Differential settlement should be less than ¹/₂ inch. Most of the settlement is expected to occur during construction as the loads are applied.
- 9.7.5 Lateral loads for caissons may be designed utilizing the Isolated Pole Formula and Specifications shown on Table 1804.2, Sections 1804.3.1 and 1808.2.2 of the California Building Code. The drilled caissons may be designed for a lateral capacity of 350 pounds per square foot per foot of depth below the lowest adjacent grade to a maximum of 5,250 psf. The lowest adjacent grade should all the ground surface within 5 feet of the caisson.
- 9.7.6 These values may be increased by one-third when using the alternative load combinations in Section 1605.3.2 of the IBC that include wind or earthquake loads. These values should not be doubled since the values given herein are higher than the tabular values shown on the Table 1804.2. The lateral loading criteria is based on the assumption that the load application is applied at the ground level and flexible cap connections applied.







9.7.7 Sandy soil were encountered at the site. Casing of the drilled caisson will be required if groundwater/seepage is encountered or the drilled hole has to be left open for an extended period of time.

9.8 Concrete Slabs-on-Grade

- 9.8.1 Slab thickness and reinforcement should be determined by the structural engineer based on the anticipated loading. We recommend that non-structural slabs-on-grade be at least 4 inches thick and underlain by six (6) inches of compacted granular aggregate subbase material compacted to at least 95% relative compaction.
- 9.8.2 Granular aggregate subbase material shall conform to ASTM D-2940, Latest Edition (Table 1, bases) with at least 95 percent passing a 1¹/₂-inch sieve and not more than 8% passing a No. 200 sieve to prevent capillary moisture rise.
- 9.8.3 We recommend reinforcing slabs, at a minimum, with No. 3 reinforcing bars placed 18 inches on center, each way.
- 9.8.4 Slabs subject to structural loading may be designed utilizing a modulus of subgrade reaction K of 150 pounds per square inch per inch. The K value was approximated based on interrelationship of soil classification and bearing values (Portland Cement Association, Rocky Mountain Northwest).
- 9.8.5 The spacing of crack control joints should be designed by the project structural engineer. In order to regulate cracking of the slabs, we recommend that full depth construction joints or control joints be provided at a maximum spacing of 15 feet in each direction for 5-inch thick slabs and 12 feet for 4-inch thick slabs.
- 9.8.6 Crack control joints should extend a minimum depth of one-fourth the slab thickness and should be constructed using saw-cuts or other methods as soon as practical after concrete placement. The exterior floors should be poured separately in order to act independently of the walls and foundation system.
- 9.8.7 It is recommended that the utility trenches within the structures be compacted, as specified in our report, to minimize the transmission of moisture through the utility trench backfill. Special attention to the immediate drainage and irrigation around the structures is recommended.
- 9.8.8 Moisture within the structures may be derived from water vapors, which were transformed from the moisture within the soils. This moisture vapor penetration can affect floor coverings and produce mold and mildew in the structures. To minimize moisture vapor intrusion, it is recommended that a vapor retarder be installed in accordance with manufacturer's recommendations and/or ASTM guidelines, whichever is more stringent. In addition, ventilation of the structures is recommended to reduce the accumulation of interior moisture.
- 9.8.9 In areas where it is desired to reduce floor dampness where moisture-sensitive coverings are anticipated, construction should have a suitable waterproof vapor retarder (a minimum of 15 mils thick polyethylene vapor retarder sheeting, Raven Industries "VaporBlock 15, Stego Industries"



15 mil "StegoWrap" or W.R. Meadows Sealtight 15 mil "Perminator") incorporated into the floor slab design. The water vapor retarder should be decay resistant material complying with ASTM E96 not exceeding 0.04 perms, ASTM E154 and ASTM E1745 Class A. The vapor barrier should be placed between the concrete slab and the compacted granular aggregate subbase material. The water vapor retarder (vapor barrier) should be installed in accordance with ASTM Specification E 1643-94.

- 9.8.10 The concrete maybe placed directly on vapor retarder. The vapor retarder should be inspected prior to concrete placement. Cut or punctured retarder should be repaired using vapor retarder material lapped 6 inches beyond damaged areas and taped.
- 9.8.11 The recommendations of this report are intended to reduce the potential for cracking of slabs due to soil movement. However, even with the incorporation of the recommendations presented herein, foundations, stucco walls, and slabs-on-grade may exhibit some cracking due to soil movement. This is common for project areas that contain expansive soils since designing to eliminate potential soil movement is cost prohibitive. The occurrence of concrete shrinkage cracks is independent of the supporting soil characteristics. Their occurrence may be reduced and/or controlled by limiting the slump of the concrete, proper concrete placement and curing, and by the placement of crack control joints at periodic intervals, in particular, where re-entrant slab corners occur.
- 9.8.12 Proper finishing and curing should be performed in accordance with the latest guidelines provided by the American Concrete Institute, Portland Cement Association, and ASTM.

9.9 Lateral Earth Pressures and Frictional Resistance

9.9.1 Active, at-rest and passive unit lateral earth pressures against footings and walls are summarized in the table below:

Lateral Pressure Conditions	Equivalent Fluid Pressure, pcf
Active Pressure, Drained	40
At-Rest Pressure, Drained	60
Passive Pressure	350
Related Parameters	
Allowable Coefficient of Friction	0.38
In-Place Soil Density (lbs/ft ³)	120

9.9.2 Active pressure applies to walls, which are free to rotate. At-rest pressure applies to walls, which are restrained against rotation. The preceding lateral earth pressures assume sufficient drainage



behind retaining walls to prevent the build-up of hydrostatic pressure. The top one-foot of adjacent subgrade should be deleted from the passive pressure computation.

- 9.9.3 The foregoing values of lateral earth pressures represent allowable equivalent soil values and a safety factor consistent with the design conditions should be included in their usage.
- 9.9.4 For stability against lateral sliding, which is resisted solely by the passive pressure, we recommend a minimum safety factor of 1.5.
- 9.9.5 For stability against lateral sliding, which is resisted by the combined passive and frictional resistance, a minimum safety factor of 2.0 is recommended.
- 9.9.6 For lateral stability against seismic loading conditions, we recommend a minimum safety factor of 1.1.

Dynamic Seismic Lateral Loading Equation

Dynamic Seismic Lateral Load = $\frac{3}{8}\gamma K_{h}H^{2}$

Where: $\gamma =$ In-Place Soil Density

 K_h = Horizontal Acceleration = $\frac{2}{3}PGA_M$

H = Wall Height

9.9.7 For dynamic seismic lateral loading the following equation shall be used:



- 9.10.1 Retaining and/or below grade walls should be drained with either perforated pipe encased in freedraining gravel or a prefabricated drainage system. The gravel zone should have a minimum width of 12 inches wide and should extend upward to within 12 inches of the top of the wall. The upper 12 inches of backfill should consist of native soils, concrete, asphaltic-concrete or other suitable backfill to minimize surface drainage into the wall drain system. The gravel should conform to Class II permeable materials graded in accordance with the current CalTrans Standard Specifications.
- 9.10.2 Prefabricated drainage systems, such as Miradrain®, Enkadrain®, or an equivalent substitute, are acceptable alternatives in lieu of gravel provided they are installed in accordance with the manufacturer's recommendations. If a prefabricated drainage system is proposed, our firm should review the system for final acceptance prior to installation.
- 9.10.3 Drainage pipes should be placed with perforations down and should discharge in a non-erosive manner away from foundations and other improvements. The top of the perforated pipe should be placed at or below the bottom of the adjacent floor slab or pavements. The pipe should be placed in the center line of the drainage blanket and should have a minimum diameter of 4 inches. Slots should be no wider than 1/8-inch in diameter, while perforations should be no more than 1/4-inch in diameter.



- 9.10.4 If retaining walls are less than 5 feet in height, the perforated pipe may be omitted in lieu of weep holes on 4 feet maximum spacing. The weep holes should consist of 2-inch minimum diameter holes (concrete walls) or unmortared head joints (masonry walls) and placed no higher than 18 inches above the lowest adjacent grade. Two 8-inch square overlapping patches of geotextile fabric (conforming to the CalTrans Standard Specifications for "edge drains") should be affixed to the rear wall opening of each weep hole to retard soil piping.
- 9.10.5 During grading and backfilling operations adjacent to any walls, heavy equipment should not be allowed to operate within a lateral distance of 5 feet from the wall, or within a lateral distance equal to the wall height, whichever is greater, to avoid developing excessive lateral pressures. Within this zone, only hand operated equipment ("whackers," vibratory plates, or pneumatic compactors) should be used to compact the backfill soils.

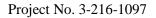
9.11 Temporary Excavations

- 9.11.1 We anticipate that the majority of the sandy site soils will be classified as Cal-OSHA "Type C" soil when encountered in excavations during site development and construction. Excavation sloping, benching, the use of trench shields, and the placement of trench spoils should conform to the latest applicable Cal-OSHA standards. The contractor should have a Cal-OSHA-approved "competent person" onsite during excavation to evaluate trench conditions and make appropriate recommendations where necessary.
- 9.11.2 It is the contractor's responsibility to provide sufficient and safe excavation support as well as protecting nearby utilities, structures, and other improvements which may be damaged by earth movements. All onsite excavations must be conducted in such a manner that potential surcharges from existing structures, construction equipment, and vehicle loads are resisted. The surcharge area may be defined by a 1:1 projection down and away from the bottom of an existing foundation or vehicle load.
- 9.11.3 Temporary excavations and slope faces should be protected from rainfall and erosion. Surface runoff should be directed away from excavations and slopes.
- 9.11.4 Open, unbraced excavations in undisturbed soils should be made according to the slopes presented in the following table:

Depth of Excavation (ft)	Slope (Horizontal : Vertical)
0-5	1:1
5-10	2:1

RECOMMENDED EXCAVATION SLOPES

9.11.5 If, due to space limitation, excavations near property lines or existing structures are performed in a vertical position, slot cuts, braced shorings or shields may be used for supporting vertical excavations. Therefore, in order to comply with the local and state safety regulations, a properly designed and installed shoring system would be required to accomplish planned excavations and





installation. A Specialty Shoring Contractor should be responsible for the design and installation of such a shoring system during construction.

- 9.11.6 Braced shorings should be designed for a maximum pressure distribution of 35H, (where H is the depth of the excavation in feet). The foregoing does not include excess hydrostatic pressure or surcharge loading. Fifty percent of any surcharge load, such as construction equipment weight, should be added to the lateral load given herein. Equipment traffic should concurrently be limited to an area at least 3 feet from the shoring face or edge of the slope.
- 9.11.7 The excavation and shoring recommendations provided herein are based on soil characteristics derived from the borings within the area. Variations in soil conditions will likely be encountered during the excavations. SALEM Engineering Group, Inc. should be afforded the opportunity to provide field review to evaluate the actual conditions and account for field condition variations not otherwise anticipated in the preparation of this recommendation. Slope height, slope inclination, or excavation depth should in no case exceed those specified in local, state, or federal safety regulation, (e.g. OSHA) standards for excavations, 29 CFR part 1926, or Assessor's regulations.

9.12 Underground Utilities

- 9.12.1 Underground utility trenches should be backfilled with properly compacted material. The material excavated from the trenches should be adequate for use as backfill provided it does not contain deleterious matter, vegetation or rock larger than 3 inches in maximum dimension. Trench backfill should be placed in loose lifts not exceeding 8 inches and compacted to at least 95% (90% for fine-grained cohesive soils) relative compaction at or above optimum moisture content.
- 9.12.2 Bedding and pipe zone backfill typically extends from the bottom of the trench excavations to approximately 6 to 12 inches above the crown of the pipe. Pipe bedding and backfill material should conform to the requirements of the governing utility agency.
- 9.12.3 It is suggested that underground utilities crossing beneath new or existing structures be plugged at entry and exit locations to the building or structures to prevent water migration. Trench plugs can consist of on-site clay soils, if available, or sand cement slurry. The trench plugs should extend 2 feet beyond each side of individual perimeter foundations.
- 9.12.4 The contractor is responsible for removing all water-sensitive soils from the trench regardless of the backfill location and compaction requirements. The contractor should use appropriate equipment and methods to avoid damage to the utilities and/or structures during fill placement and compaction.

9.13 Surface Drainage

9.13.1 Proper surface drainage is critical to the future performance of the project. Uncontrolled infiltration of irrigation excess and storm runoff into the soils can adversely affect the performance of the planned improvements. Saturation of a soil can cause it to lose internal shear



strength and increase its compressibility, resulting in a change to important engineering properties. Proper drainage should be maintained at all times.

- 9.13.2 Site drainage should be collected and transferred away from improvements in non-erosive drainage devices. Drainage should not be allowed to pond anywhere on the site, and especially not against any foundations or retaining walls. Drainage should not be allowed to flow uncontrolled over any descending slope. The proposed structures should be provided with roof gutters. Discharge from downspouts, roof drains and scuppers are not permitted onto unprotected soils within five feet of the building perimeters. Planters which are located adjacent to foundations should be sealed or properly drained to prevent moisture intrusion into the materials providing foundation support. Landscape irrigation within 5 feet of the building perimeter footings should be kept to a minimum to just support vegetative life.
- 9.13.3 The ground immediately adjacent to the foundation shall be sloped away from building at a slope of not less than 5 percent for a minimum distance of 10 feet. Impervious surfaces within 10 feet of building's foundations shall be sloped a minimum of 2 percent away from building and drainage gradients maintained to carry all surface water to collection facilities and off site. These grades should be maintained for the life of the project.

9.14 Pavement Design

- 9.14.1 Based on site soil conditions, an R-value of 30 was used for the preliminary flexible asphaltic concrete pavement design. The R-value may be verified during grading of the pavement areas.
- 9.14.2 The pavement design recommendations provided herein are based on the State of California Department of Transportation (CALTRANS) design manual. The asphaltic concrete (flexible pavement) is based on a 20-year pavement life utilizing 1200 passenger vehicles, 10 single unit trucks, and 2 multi-unit trucks. The following table shows the recommended pavement sections for various traffic indices.

Traffic Index	Asphaltic Concrete	Class II Aggregate Base*	Compacted Subgrade**
5.0 (Parking and Vehicle Drive Areas)	3.0"	5.0"	12.0"
6.0 (Heavy Truck Areas)	3.0"	8.5"	12.0"

TABLE 9.14.2ASPHALT CONCRETE PAVEMENT THICKNESSES

**95% compaction based on ASTM D1557 Test Method

**95% (90% for fined-grained cohesive soils) compaction based on ASTM D1557 Test Method

9.14.3 The following recommendations are for light-duty and heavy-duty Portland Cement Concrete pavement sections.



TORTEAND CEIVENT CONCRETE TAVEMENT THICKNESSES						
Traffic Index	Portland Cement Concrete*	Class II Aggregate Base**	Compacted Subgrade***			
5.0 (Light Duty)	5.0"	4.0"	12.0"			
6.0 (Heavy Duty)	6.5"	6.0"	12.0"			

TABLE 9.14.3PORTLAND CEMENT CONCRETE PAVEMENT THICKNESSES

* Minimum Compressive Strength of 4,000 psi ** 95% compaction based on ASTM D1557 Test Method ***95% (90% for fine-grained cohesive soils) compaction based on ASTM D1557 Test Method

10. PLAN REVIEW, CONSTRUCTION OBSERVATION AND TESTING

10.1 Plan and Specification Review

10.1.1 SALEM should review the project plans and specifications prior to final design submittal to assess whether our recommendations have been properly implemented and evaluate if additional analysis and/or recommendations are required.

10.2 Construction Observation and Testing Services

- 10.2.1 The recommendations provided in this report are based on the assumption that we will continue as Geotechnical Engineer of Record throughout the construction phase. It is important to maintain continuity of geotechnical interpretation and confirm that field conditions encountered are similar to those anticipated during design. If we are not retained for these services, we cannot assume any responsibility for others interpretation of our recommendations, and therefore the future performance of the project.
- 10.2.2 SALEM should be present at the site during site preparation to observe site clearing, preparation of exposed surfaces after clearing, and placement, treatment and compaction of fill material.
- 10.2.3 SALEM's observations should be supplemented with periodic compaction tests to establish substantial conformance with these recommendations. Moisture content of footings and slab subgrade should be tested immediately prior to concrete placement. SALEM should observe foundation excavations prior to placement of reinforcing steel or concrete to assess whether the actual bearing conditions are compatible with the conditions anticipated during the preparation of this report.



11. LIMITATIONS AND CHANGED CONDITIONS

The analyses and recommendations submitted in this report are based upon the data obtained from the test borings drilled at the approximate locations shown on the Site Plan, Figure 1. The report does not reflect variations which may occur between borings. The nature and extent of such variations may not become evident until construction is initiated.

If variations then appear, a re-evaluation of the recommendations of this report will be necessary after performing on-site observations during the excavation period and noting the characteristics of such variations. The findings and recommendations presented in this report are valid as of the present and for the proposed construction. If site conditions change due to natural processes or human intervention on the property or adjacent to the site, or changes occur in the nature or design of the project, or if there is a substantial time lapse between the submission of this report and the start of the work at the site, the conclusions and recommendations contained in our report will not be considered valid unless the changes are reviewed by SALEM and the conclusions of our report are modified or verified in writing.

The validity of the recommendations contained in this report is also dependent upon an adequate testing and observations program during the construction phase. Our firm assumes no responsibility for construction compliance with the design concepts or recommendations unless we have been retained to perform the onsite testing and review during construction. SALEM has prepared this report for the exclusive use of the owner and project design consultants.

SALEM does not practice in the field of corrosion engineering. It is recommended that a qualified corrosion engineer be consulted regarding protection of buried steel or ductile iron piping and conduit or, at a minimum, that manufacturer's recommendations for corrosion protection be closely followed. Further, a corrosion engineer may be needed to incorporate the necessary precautions to avoid premature corrosion of concrete slabs and foundations in direct contact with native soil.

The importation of soil and or aggregate materials to the site should be screened to determine the potential for corrosion to concrete and buried metal piping. The report has been prepared in accordance with generally accepted geotechnical engineering practices in the area. No other warranties, either express or implied, are made as to the professional advice provided under the terms of our agreement and included in this report.



If you have any questions, or if we may be of further assistance, please do not hesitate to contact our office at (909) 980-6455

Respectfully Submitted,

SALEM ENGINEERING GROUP, INC.

arauch Ibrilia

Ibrahim Ibrahim, MS, EIT Geotechnical Staff Engineer

Clarence Jiang, GE Senior Geotechnical Engineer RGE 2477



R. Sammy Salem, MS, PE, GE Principal Engineer RCE 52762 / RGE 2549



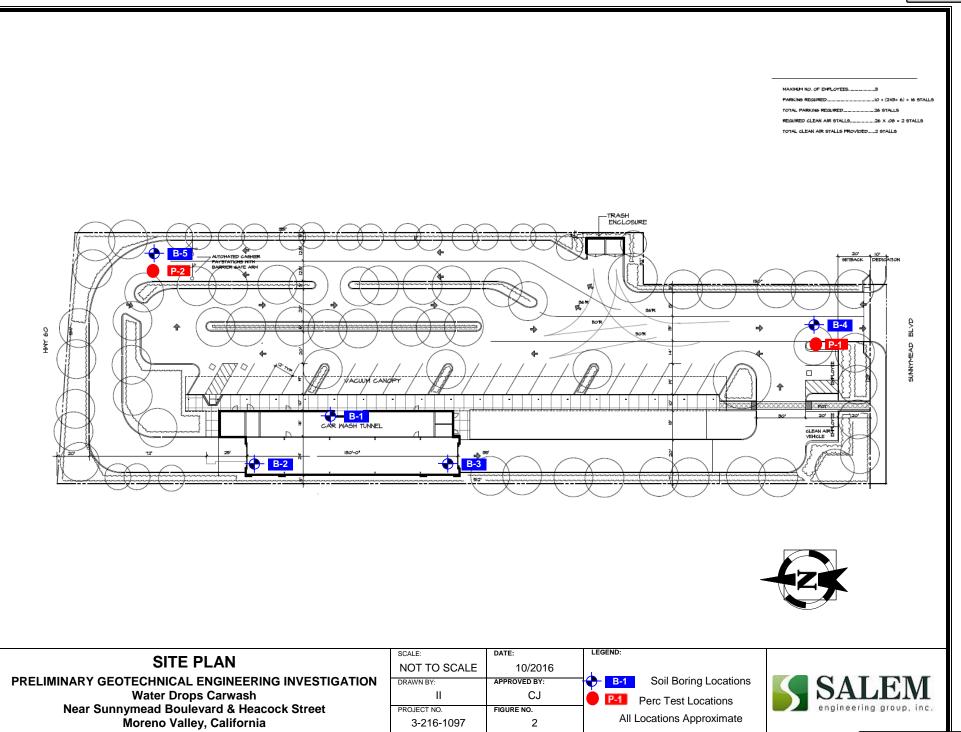


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(2913 : PEN16-0113 Plot Plan) Attachment: Geotechnical Investigation







APPENDIX A FIELD EXPLORATION

Fieldwork for our investigation (drilling) was conducted on October 10, 2016 and included a site visit, subsurface exploration, and soil sampling. Percolation tests were performed on October 11, 2016. The locations of the exploratory borings and percolation tests are shown on the Site Plan, Figure 2. Boring logs for our exploration are presented in figures following the text in this appendix. Borings were located in the field using existing reference points. Therefore, actual boring locations may deviate slightly.

In general, our borings were performed using a truck-mounted CME 45C drill rig equipped with an 8-inch dimeter hollow-stem augers and a 4-inch solid flight auger. Sampling in the borings was accomplished using a hydraulic 140-pound hammer with a 30-inch drop. Samples were obtained with a 3-inch outside-diameter (OD), split spoon (California Modified) sampler, and a 2-inch OD, Standard Penetration Test (SPT) sampler. The number of blows required to drive the sampler the last 12 inches (or fraction thereof) of the 18-inch sampling interval were recorded on the boring logs. The blow counts shown on the boring logs should not be interpreted as standard SPT "N" values; corrections have not been applied. Upon completion, the borings were backfilled with drill cuttings.

Subsurface conditions encountered in the exploratory borings were visually examined, classified and logged in general accordance with the American Society for Testing and Materials (ASTM) Practice for Description and Identification of Soils (Visual-Manual Procedure D2488). This system uses the Unified Soil Classification System (USCS) for soil designations. The logs depict soil and geologic conditions encountered and depths at which samples were obtained. The logs also include our interpretation of the conditions between sampling intervals. Therefore, the logs contain both observed and interpreted data. We determined the lines designating the interface between soil materials on the logs using visual observations, drill rig penetration rates, excavation characteristics and other factors. The transition between materials may be abrupt or gradual. Where applicable, the field logs were revised based on subsequent laboratory testing.



M	Major Divisions		Letter	Symbol	·	
ve	se the	Clean	GW		Well-graded gravels and gravel-sand mixtures,	
Sie	oar on e	Gravels		9202	little or no fines. Poorly-graded gravels and gravel-sand mixtures,	
000	vels 1/2 co uined c sieve	Ulaveis	GP	~ 3	little or no fines.	
Coarse-grained Soils More than ½ retained on the No. 200 Sieve	Gravels More than ¹ / ₂ coarse fraction retained on the No. 4 sieve	Gravels	GM		Silty gravels, gravel-sand-silt mixtures.	
Coarse-grained Soils ½ retained on the No		With Fines	GC		Clayey gravels, gravel-sand-clay mixtures.	
rse-gr etaine	assing 4 sieve	Clean Sands	SW		Well-graded sands and gravelly sands, little or no fines.	
Coai n ½ re	Sands han ½ pat the No. 4		SP		Poorly-graded sands and gravelly sands, little or no fines.	
re tha	Sands More than ½ passing through the No. 4 siev	Sands With	SM		Silty sands, sand-silt mixtures	
	Moi throu	Fines	SC		Clayey sands, sandy-clay mixtures.	
Fine-grained Soils More than ½ passing through the No. 200 Sieve	Silts an	d Clavs	ML		Inorganic silts, very fine sands, rock flour, silty or clayey fine sands.	
joils throug re	Silts and Clays Silts and Clays Liquid Limit less than 50%		CL	Inorganic clays of low to medium plasticity, grave clays, sandy clays, silty clays, lean clays.		
ined S ssing 1 0 Siev	50	//0	OL		Organic clays of medium to high plasticity.	
Fine-grained Soils an ½ passing thro No. 200 Sieve	Silts an	d Clays	MH		Inorganic silts, micaceous or diatomaceous fines sands or silts, elastic silts.	
Fin than	Liquid Limi	t greater than	СН		Inorganic clays of high plasticity, fat clays.	
More	50	770	OH		Organic clays of medium to high plasticity.	
Hig	hly Organic (Soils	PT		Peat, muck, and other highly organic soils.	
			Consi	stency Cl	lassification	
	Granular	· Soils			Cohesive Soils	
Descriptio		Per Foot (Cor	rected)		Description - Blows Per Foot (Corrected)	
Very loos	MCS <u>SPT</u>		V	$\frac{MCS}{<3}$ $\frac{SPT}{<2}$		
Loose			Soft			
	Medium dense $16 - 40$ $11 - 30$		Firm			
Dense				11 00 0 15		
	Very dense >65 >50		Stiff	21 40 16 20		
very dells			Very Hard	× 30		
MCS =	Modified Cal	lifornia Sampl	er	S	SPT = Standard Penetration Test Sampler	

Unified Soil Classification System

								L	Z. N		
		Boring	No. E	3-1							
		et: Proposed Water Drops Carwash : P&N Construction, Tri-millennium Properties	8				Figu	ect No: 3-216-1097 ıre No.: A-1			
Lo	ocati	on: Near Sunnymead Boulevard & Heacock	Street, I	Moreno	o Valley	, CA	• -	ged By: SMG			
Gr	nd.	Surf. Elev. (Ft. MSL) N/A		Depth to Water> At Completion: None							
		SUBSURFACE PROFILE		SA	MPLE						
Depth (ft)	Symbol	Description	Dry Density (pcf)	Dry Density (pcf) Moisture Content (%) Sampler Type Penetration		Penetration	Blow Count	Penetration Test 20 40 60 80	Water Level		
0-	ніннін	Ground Surface	_						_		
		Silty SAND (SM) Dense; slightly moist; brown; fine-medium							_		
		grained; with trace clay.	116.5	3.3	MCS		57	•	_		
-									_		
5-		Grades as above; very dense; moist.	112.7	8.1	MCS		60	-			
			112.1	0.1	MOO		00				
- 10- -		Grades as above; medium dense; slightly moist.	-	4.3	SPT		23				
15-		Grades as above; dense; moist.	-	7.8	SPT		37				
- 20- -		Silty SAND/Sandy SILT (SM/ML) Dense; moist; brown; fine-medium grained; with trace clay.		10.9	SPT		37				
25-		Grades as above; medium dense.	-	9.7	SPT		24				
Dr Dr	'ill R 'iller	lethod: Hollow Stem Auger ig: CME-45C : Salem Engineering Group, Inc. : 1 of 2	Bo Ha	rehole mmer	: 10/10/′ Size: 8 Гуре: А Drop: 1	inch uto T	rip.				

Attachment: Geotechnical Investigation (2913 : PEN16-0113 Plot Plan)

2.k

		Boring I	No. E	8-1									
Cl	ient	et: Proposed Water Drops Carwash P&N Construction, Tri-millennium Properties					Figu	ect No: 3-216-1097 ire No.: A-1					
		on: Near Sunnymead Boulevard & Heacock S Surf. Elev. (Ft. MSL) N/A	Street, N		o Valley h to Wa		Initial: None						
		SUBSURFACE PROFILE		SA	MPLE		Al U						
Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture Content (%)	Sampler Type	Penetration	Blow Count	Penetration Test 20 40 60 80	Water Level				
-		Sandy SILT (ML) Stiff; moist; brown; fine-medium grained; with											
30-	-	clay.	_	12.8	SPT		14						
35-	-	Grades as above; hard.	-	9.0	SPT		43						
40-	-	Auger refusal at 36 feet due to dense soils.											
45- - - - - - - - - - - - - - - - -	-												
Dr Dr	ill R iller	ethod: Hollow Stem Auger ig: CME-45C : Salem Engineering Group, Inc. 2 of 2	Bo Ha	rehole mmer ⊺	: 10/10/ [/] Size: 8 Гуре: А Drop: 1	inche uto T	rip.						

		Boring	No. E	3-2				L	
Cli Lo	ient: ocati	et: Proposed Water Drops Carwash P&N Construction, Tri-millennium Propertie fon: Near Sunnymead Boulevard & Heacock Surf. Elev. (Ft. MSL) N/A			o Valley h to Wa		Figu Log Initi	ect No: 3-216-1097 ure No.: A-2 ged By: SMG al: None	
		SUBSURFACE PROFILE			MPLE		At C	ompletion: None	
Depth (ft)	Symbol	Description	Dry Density (pcf) Moisture Content (%) Sampler Type			Penetration	Blow Count	Penetration Test 20 40 60 80	Water Level
0-		Ground Surface Silty SAND (SM)							
-		Dense; slightly moist; brown; fine-medium grained; with trace clay.	108.7	3.8	MCS		52		
		Silty SAND/Sandy SILT (SM/ML) Very dense; moist; brown; fine-medium grained; with trace clay.	109.7	7.7	MCS		50		
- - 10- -		Silty SAND (SM) Medium dense; moist; brown; fine-medium grained; with clay.	-	11.3	SPT		20		
- - 15-		Grades as above; dense.	-	9.2	SPT		43		
- - 20-		Grades as above. End of Borehole	_						
- - 25-	-								
Dr Dr	'ill R 'iller	lethod: Solid Flight Auger ig: CME-45C : Salem Engineering Group, Inc. : 1 of 1	Bo Ha	rehole mmer	: 10/10/′ Size: 4 Гуре: А Drop: 1	inch uto T	rip.		SALEM

Attachment: Geotechnical Investigation (2913 : PEN16-0113 Plot Plan)

		Boring	No. E	8-3								
Cli	ient:	t: Proposed Water Drops Carwash P&N Construction, Tri-millennium Propertie					Figu	ect No: 3-216-1097 ire No.: A-3				
		on: Near Sunnymead Boulevard & Heacock Surf. Elev. (Ft. MSL) N/A	Street, I		o Valley h to Wa		Initial: None					
		SUBSURFACE PROFILE		SA	SAMPLE At Completion: None							
Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture Content (%)	Sampler Type	Penetration	Blow Count	Penetration Test 20 40 60 80				
0-	ЮНШН	Ground Surface										
-		Silty SAND (SM) Medium dense; slightly moist; brown; fine- medium grained; with trace clay.	104.1	4.7	MCS		36					
5-		Grades as above; dense.	105.8	3.6	MCS		54					
- - 10- -		Grades as above; medium dense.	-	6.9	SPT		19					
- - 15- -		Grades as above; very dense.	-	6.1	SPT		51					
- - 20- -		Grades as above. End of Borehole										
- 25- -	-											
Dr Dr	ill R iller:	ethod: Soild Flight Auger ig: CME-45C : Salem Engineering Group, Inc. 1 of 1	Bo Ha	rehole mmer ⊺	: 10/10/ [/] Size: 4 Type: Au Drop: 1	inche uto T	rip.	SALEM				

Attachment: Geotechnical Investigation (2913 : PEN16-0113 Plot Plan)

2.k

		Boring	No. E	8-4								
		t: Proposed Water Drops Carwash P&N Construction, Tri-millennium Propertie	es				Figu	ect No: ire No.:	A-4			
		on: Near Sunnymead Boulevard & Heacock Surf. Elev. (Ft. MSL) N/A	Street, I	Norend	o Valley	ν, CA	A Logged By: SMG Initial: None					
	<u> </u>			-	h to Wa		At C	ompleti	on: N	lone		
		SUBSURFACE PROFILE		SA	MPLE							
Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture Content (%)	Sampler Type	Penetration	Blow Count			on Test	Water Level	
0-	HHIII	Ground Surface	_									
-		Silty SAND/Sandy SILT (SM/ML) Dense; slightly moist; brown; fine-medium grained; with trace clay.	106.0	4.3	MCS		43		•			
		Grades as above; medium dense; fine grained.	115.7	10.7	MCS		40		•			
- - 10-		Grades as above. End of Borehole	_									
- - - 15-	-											
-	-											
20												
25-	-											
Dr Dr	ill R iller	ethod: Solid Flight Auger ig: CME-45C : Salem Engineering Group, Inc. : 1 of 1	Bo Ha	rehole mmer ⁻	: 10/10/ [/] Size: 4 Type: A Drop: 1	inch uto T	rip.	ı.			MILLIN	

		Boring	No. E	8-5								
Cli	ient	t: Proposed Water Drops Carwash P&N Construction, Tri-millennium Propertie					Figu	ect No: 3-216-1097 ire No.: A-5				
		on: Near Sunnymead Boulevard & Heacock Surf. Elev. (Ft. MSL) N/A	Street, I				Initial: None					
				-	h to Wa		At C	ompletion: None				
		SUBSURFACE PROFILE		SA	MPLE စ							
Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture Content (%)	Sampler Type	Penetration	Blow Count	Penetration Test	Water Level			
0-	NHHH	Ground Surface	_									
-		Silty SAND (SM) Medium dense; slightly moist; brown; fine- coarse grained; with trace clay.	105.2	4.5	MCS		25					
5-		Grades as above; dense.	105.0	3.9	MCS		43					
- - 10-		Grades as above. End of Borehole	_									
- - - 15- - -	-											
- 20-	-											
25-												
Dr Dr	ill R iller	ethod: Solid Flight Auger ig: CME-45C : Salem Engineering Group, Inc. 1 of 1	Bo Ha	rehole mmer T	: 10/10/′ Size: 4 Гуре: А Drop: 1	inche uto T	rip.	SALEM				

					Pe	rcolation	Test Wo	orkshee	t				
Test H Tes	-	ymead Bou alley, CA P-1 SK	P-1 Presoaking Date: 10/10/2016 T SK Test Date: 10/11/2016 T								Hole Radius: 4 in. Pipe Dia.: 3 in. Totoal Depth of Hole: 120 in.		
Time Start	Time Finish	Depth of Test Hole (ft) [#]	Refill- Yes or No	Elapsed Time (hrs:min)	Initial Water Level [#] (ft)	Final Water Level [#] (ft)	Δ Water Level (in.)	Δ Min.	Meas. Perc Rate (min/in)	Initial Height of Water (in)	Final Height of Water (in)	Average Height of Water (in)	Infiltration Rate, It (in/hr)
10:10	10:40	10.0	Y	0:30	6.75	6.94	2.28	30	13.2	39.0	36.7	37.9	0.23
10:40	11:10	10.0	Ν	0:30	6.94	7.09	1.80	30	16.7	36.7	34.9	35.8	0.19
11:10	11:40	10.0	Ν	0:30	7.09	7.23	1.68	30	17.9	34.9	33.2	34.1	0.19
11:40	12:10	10.0	Ν	0:30	7.23	7.36	1.56	30	19.2	33.2	31.7	32.5	0.18
12:10	12:40	10.0	Ν	0:30	7.36	7.48	1.44	30	20.8	31.7	30.2	31.0	0.17
12:40	13:10	10.0	N	0:30	7.48	7.59	1.32	30	22.7	30.2	28.9	29.6	0.17
13:10	13:40	10.0	Ν	0:30	7.59	7.69	1.20	30	25.0	28.9	27.7	28.3	0.16
13:40	14:10	10.0	Ν	0:30	7.69	7.78	1.08	30	27.8	27.7	26.6	27.2	0.15
14:10	14:40	10.0	Ν	0:30	7.78	7.87	1.08	30	27.8	26.6	25.6	26.1	0.15
14:40	15:10	10.0	Ν	0:30	7.87	7.95	0.96	30	31.3	25.6	24.6	25.1	0.14
15:10	15:40	10.0	Ν	0:30	7.95	8.03	0.96	30	31.3	24.6	23.6	24.1	0.15
15:40	16:10	10.0	Ν	0:30	8.03	8.11	0.96	30	31.3	23.6	22.7	23.2	0.15
D	1. 1. f D									T., 6114			0.14
Recommend	led for De	sign:								Infiltr	ration Rate		0.14



					Pe	rcolation	Test W	orkshee	t						
Test H Tes	-	ymead Bou alley, CA P-2 SK	P-2 Presoaking Date: 10/10/2016 SK Test Date: 10/11/2016								Hole Radius:4in.Pipe Dia.:3in.Totoal Depth of Hole:240in.				
Time Start	Time Finish	Depth of Test Hole (ft) [#]	Refill- Yes or No	Elapsed Time (hrs:min)	Initial Water Level [#] (ft)	Final Water Level [#] (ft)	Δ Water Level (in.)	Δ Min.	Meas. Perc Rate (min/in)	Initial Height of Water (in)	Final Height of Water (in)	Average Height of Water (in)	Infiltration Rate, It (in/hr)		
10:00	10:30	20.0	Y	0:30	16.10	16.40	3.60	30	8.3	46.8	43.2	45.0	0.31		
10:30	11:00	20.0	N	0:30	16.40	16.64	2.88	30	10.4	43.2	40.3	41.8	0.26		
11:00	11:30	20.0	N	0:30	16.64	16.85	2.52	30	11.9	40.3	37.8	39.1	0.25		
11:30	12:00	20.0	N	0:30	16.85	17.04	2.28	30	13.2	37.8	35.5	36.7	0.24		
12:00	12:30	20.0	N	0:30	17.04	17.22	2.16	30	13.9	35.5	33.4	34.4	0.24		
12:30	13:00	20.0	N	0:30	17.22	17.40	2.16	30	13.9	33.4	31.2	32.3	0.25		
13:00	13:30	20.0	N	0:30	17.40	17.57	2.04	30	14.7	31.2	29.2	30.2	0.25		
13:30	14:00	20.0	N	0:30	17.57	17.73	1.92	30	15.6	29.2	27.2	28.2	0.25		
14:00	14:30	20.0	N	0:30	17.73	17.88	1.80	30	16.7	27.2	25.4	26.3	0.25		
14:30	15:00	20.0	N	0:30	17.88	18.02	1.68	30	17.9	25.4	23.8	24.6	0.25		
15:00	15:30	20.0	Ν	0:30	18.02	18.15	1.56	30	19.2	23.8	22.2	23.0	0.25		
15:30	16:00	20.0	N	0:30	18.15	18.27	1.44	30	20.8	22.2	20.8	21.5	0.25		
Recommend	led for De	sign:	•		·		•		•	Infiltr	ation Rate	•	0.24		











APPENDIX

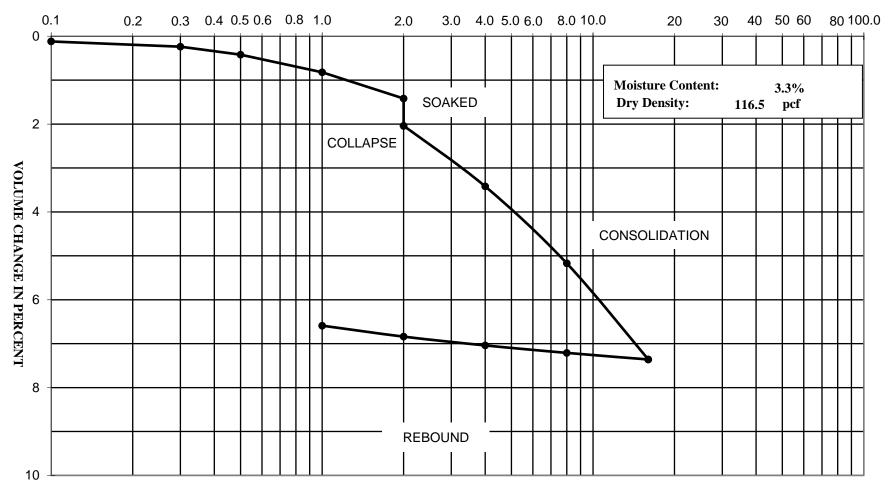
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APPENDIX B LABORATORY TESTING

Laboratory tests were performed in accordance with generally accepted test methods of the American Society for Testing and Materials (ASTM), Caltrans, or other suggested procedures. Selected samples were tested for in-situ dry density and moisture content, corrosivity, consolidation, shear strength, expansion index, maximum density and optimum moisture content, and grain size distribution. The results of the laboratory tests are summarized in the following figures.



CONSOLIDATION - PRESSURE TEST DATA ASTM D 2435



LOAD IN KIPS PER SQUARE FOOT

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097

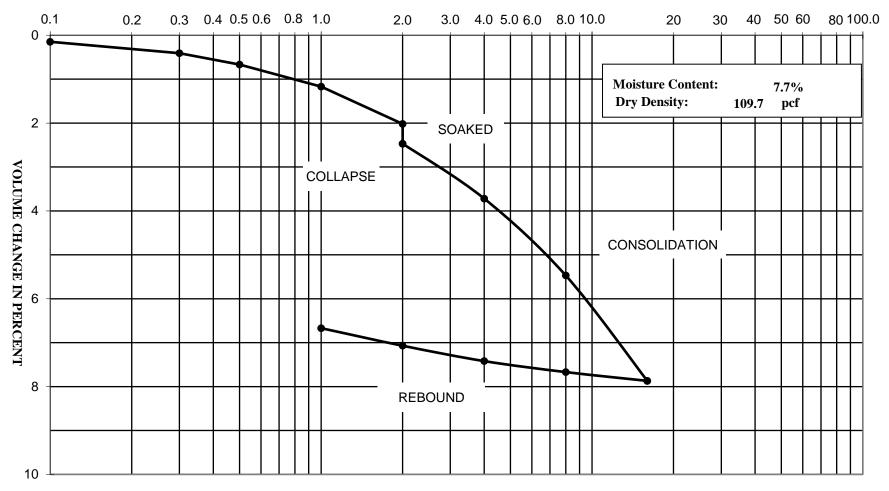
Boring: B-1 @ 2'



Attachment: Geotechnical Investigation (2913 : PEN16-0113 Plot Plan)

Packet Pg. 471

CONSOLIDATION - PRESSURE TEST DATA ASTM D 2435



LOAD IN KIPS PER SQUARE FOOT

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097

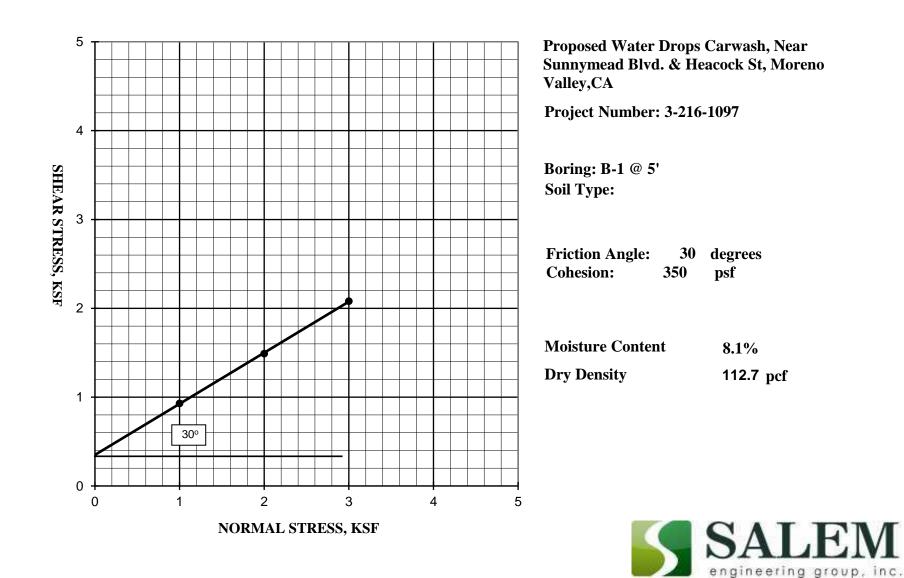
Boring: B-2 @ 5'



P, Inc. Packet Pg. 472

Attachment: Geotechnical Investigation (2913 : PEN16-0113 Plot Plan)

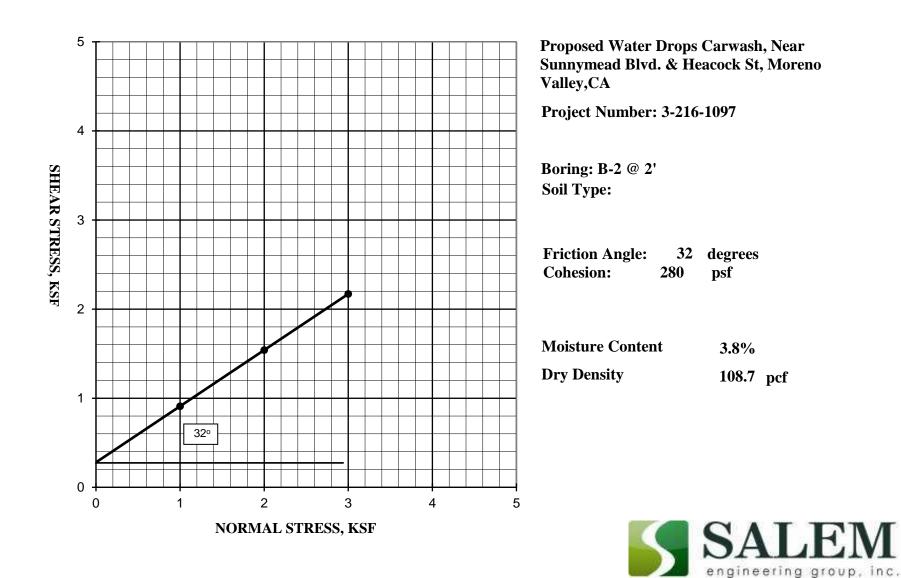
SHEAR STRENGTH DIAGRAM (DIRECT SHEAR) **ASTM D - 3080**

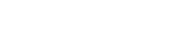




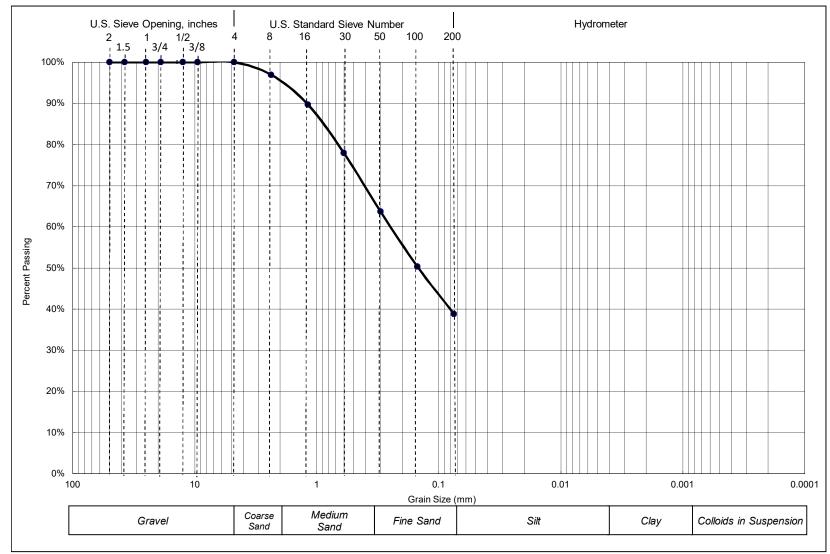
2.k

SHEAR STRENGTH DIAGRAM (DIRECT SHEAR) ASTM D - 3080





GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA

Project Number: 3-216-1097

Boring: B-1 @ 2'



ASTM C136 (without Hydrometer)

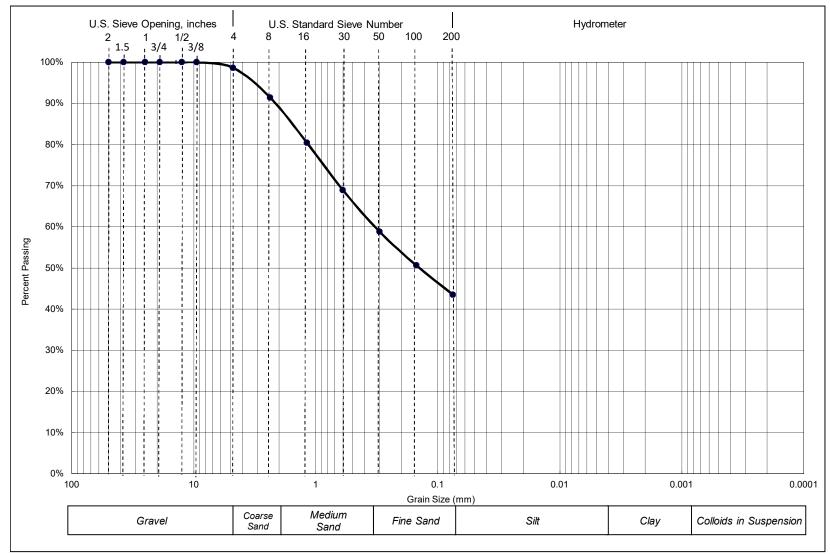
Sieve Size	Particle Size, mm	Percent Passing
1 1/2-in.	37.5	100.0%
1-in.	25	100.0%
3/4-in.	19	100.0%
1/2-in.	12.5	100.0%
3/8-in.	9.5	100.0%
No. 4	4.75	100.0%
No. 8	2.36	97.0%
No. 16	1.18	89.7%
No. 30	0.6	78.0%
No. 50	0.3	63.7%
No. 100	0.15	50.3%
No. 200	0.075	38.85%

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Boring: B-1 @ 2'



2.k

GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA

Project Number: 3-216-1097

Boring: B-1 @ 5'



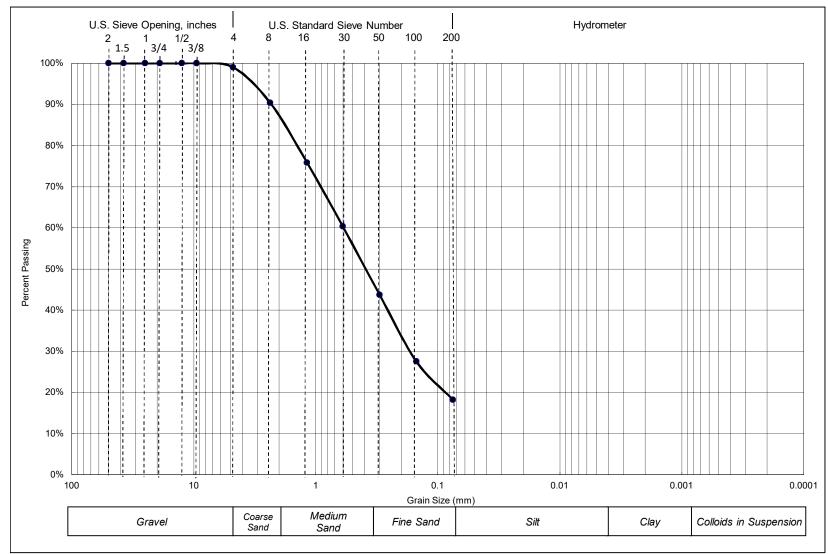
ASTM C136 (without Hydrometer)

Sieve Size	Particle Size, mm	Percent Passing
1 1/2-in.	37.5	100.0%
1-in.	25	100.0%
3/4-in.	19	100.0%
1/2-in.	12.5	100.0%
3/8-in.	9.5	100.0%
No. 4	4.75	98.6%
No. 8	2.36	91.4%
No. 16	1.18	80.4%
No. 30	0.6	68.9%
No. 50	0.3	58.8%
No. 100	0.15	50.6%
No. 200	0.075	43.49%

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Boring: B-1 @ 5'



GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA Project Number: 3-216-1097

Boring: B-1 @ 10'



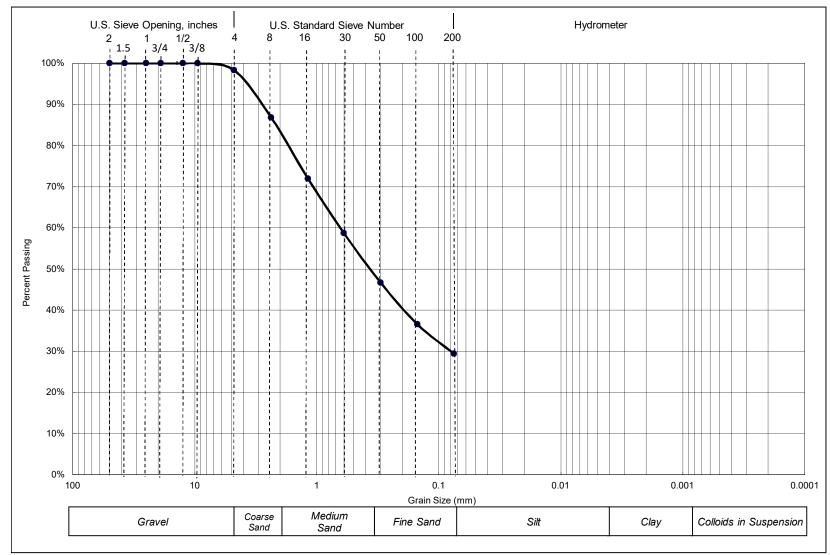
ASTM C136 (without Hydrometer)

Sieve Size	Particle Size, mm	Percent Passing
1 1/2-in.	37.5	100.0%
1-in.	25	100.0%
3/4-in.	19	100.0%
1/2-in.	12.5	100.0%
3/8-in.	9.5	100.0%
No. 4	4.75	99.0%
No. 8	2.36	90.3%
No. 16	1.18	75.9%
No. 30	0.6	60.3%
No. 50	0.3	43.7%
No. 100	0.15	27.5%
No. 200	0.075	18.19%

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Boring: B-1 @ 10'



GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097

Boring: B-1 @ 15'



ASTM C136 (without Hydrometer)

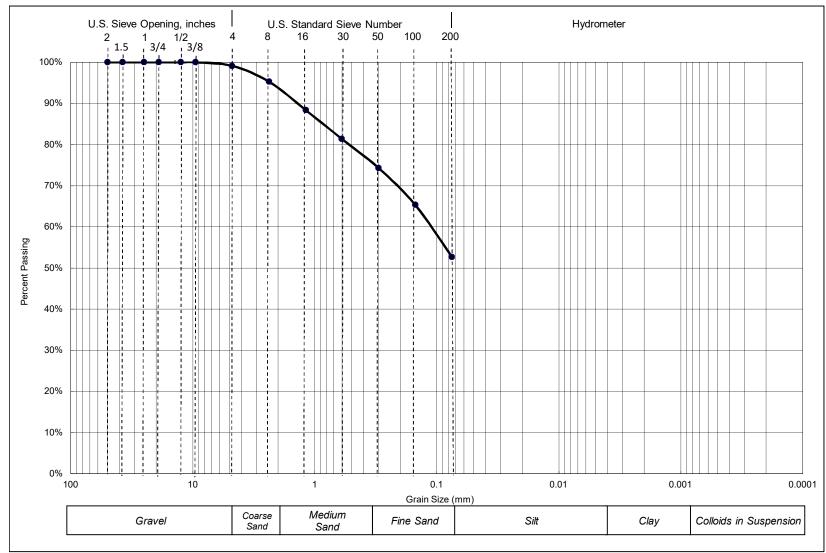
Sieve Size	Particle Size, mm	Percent Passing
1 1/2-in.	37.5	100.0%
1-in.	25	100.0%
3/4-in.	19	100.0%
1/2-in.	12.5	100.0%
3/8-in.	9.5	100.0%
No. 4	4.75	98.3%
No. 8	2.36	86.8%
No. 16	1.18	71.9%
No. 30	0.6	58.7%
No. 50	0.3	46.7%
No. 100	0.15	36.6%
No. 200	0.075	29.40%

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA Project Number: 3-216-1097 Boring: B-1 @ 15'



2.k

GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097

Boring: B-1 @ 20'



ASTM C136 (without Hydrometer)

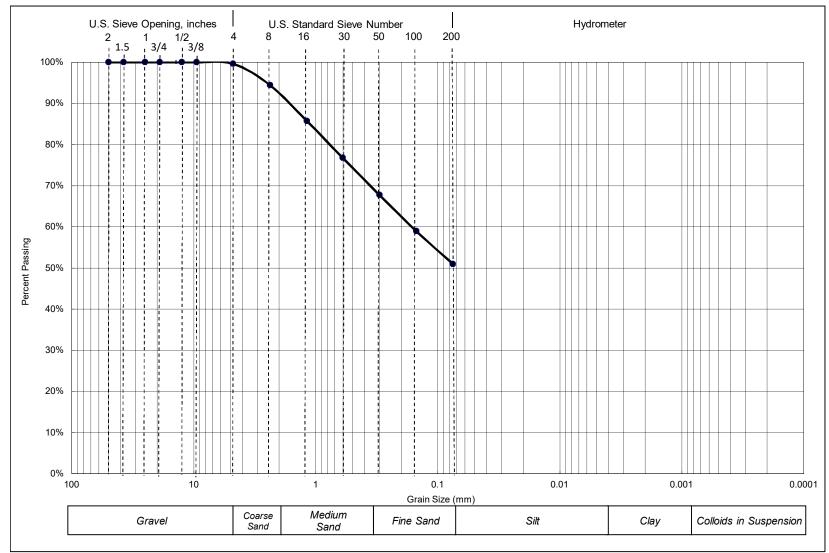
Sieve Size	Particle Size, mm	Percent Passing
1 1/2-in.	37.5	100.0%
1-in.	25	100.0%
3/4-in.	19	100.0%
1/2-in.	12.5	100.0%
3/8-in.	9.5	100.0%
No. 4	4.75	99.1%
No. 8	2.36	95.2%
No. 16	1.18	88.3%
No. 30	0.6	81.4%
No. 50	0.3	74.3%
No. 100	0.15	65.3%
No. 200	0.075	52.68%

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Boring: B-1 @ 20'



2.k

GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA

Project Number: 3-216-1097

Boring: B-1 @ 25'



Attachment: Geotechnical Investigation (2913 : PEN16-0113 Plot Plan)

ASTM C136 (without Hydrometer)

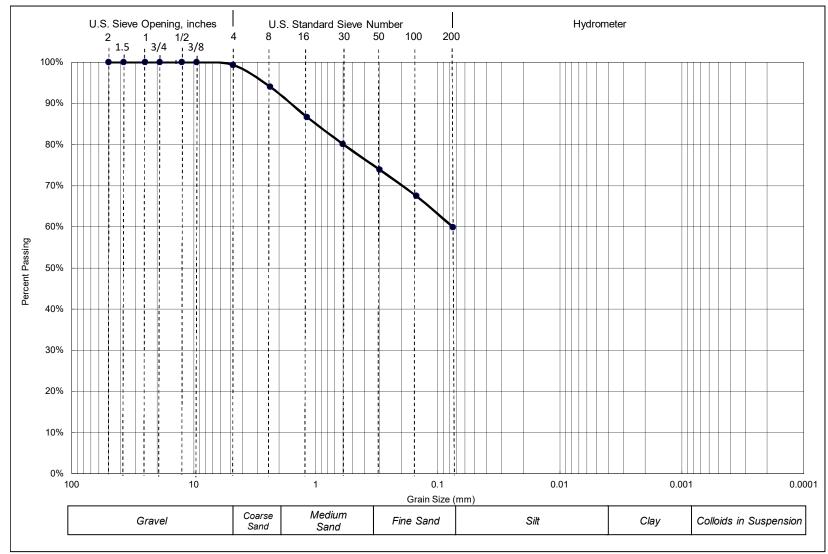
Sieve Size	Particle Size, mm	Percent Passing
1 1/2-in.	37.5	100.0%
1-in.	25	100.0%
3/4-in.	19	100.0%
1/2-in.	12.5	100.0%
3/8-in.	9.5	100.0%
No. 4	4.75	99.6%
No. 8	2.36	94.4%
No. 16	1.18	85.7%
No. 30	0.6	76.8%
No. 50	0.3	67.7%
No. 100	0.15	58.9%
No. 200	0.075	50.96%

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Boring: B-1 @ 25'



2.k

GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA Project Number: 3-216-1097

Boring: B-1 @ 30'



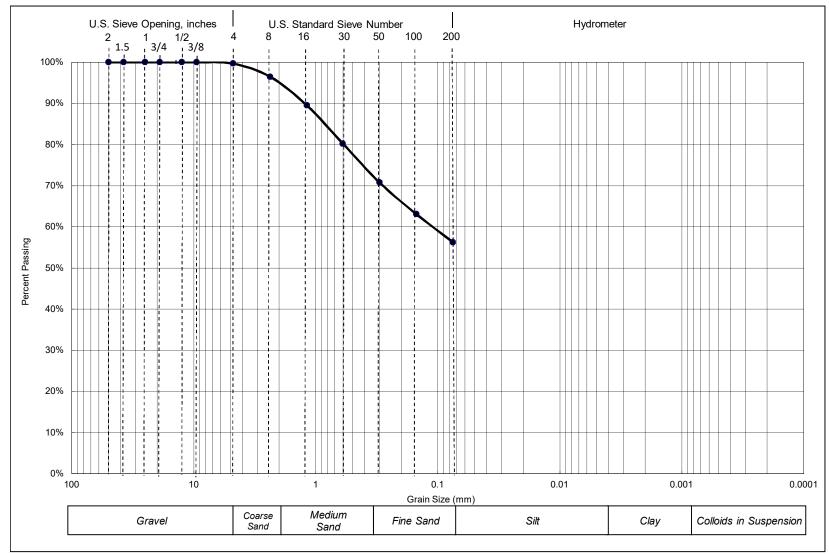
ASTM C136 (without Hydrometer)

Sieve Size	Particle Size, mm	Percent Passing
1 1/2-in.	37.5	100.0%
1-in.	25	100.0%
3/4-in.	19	100.0%
1/2-in.	12.5	100.0%
3/8-in.	9.5	100.0%
No. 4	4.75	99.4%
No. 8	2.36	94.0%
No. 16	1.18	86.7%
No. 30	0.6	80.1%
No. 50	0.3	73.9%
No. 100	0.15	67.5%
No. 200	0.075	59.93%

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Boring: B-1 @ 30'



GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA Project Number: 3-216-1097

Boring: B-1 @ 35'



ASTM C136 (without Hydrometer)

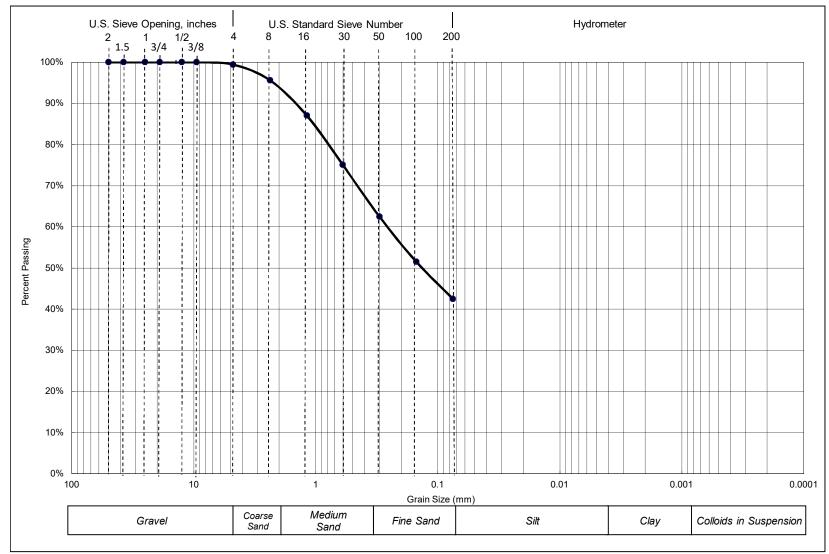
Sieve Size	Particle Size, mm	Percent Passing
1 1/2-in.	37.5	100.0%
1-in.	25	100.0%
3/4-in.	19	100.0%
1/2-in.	12.5	100.0%
3/8-in.	9.5	100.0%
No. 4	4.75	99.7%
No. 8	2.36	96.5%
No. 16	1.18	89.5%
No. 30	0.6	80.2%
No. 50	0.3	70.8%
No. 100	0.15	63.1%
No. 200	0.075	56.22%

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Boring: B-1 @ 35'



2.k

GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA

Project Number: 3-216-1097

Boring: B-2 @ 2'



ASTM C136 (without Hydrometer)

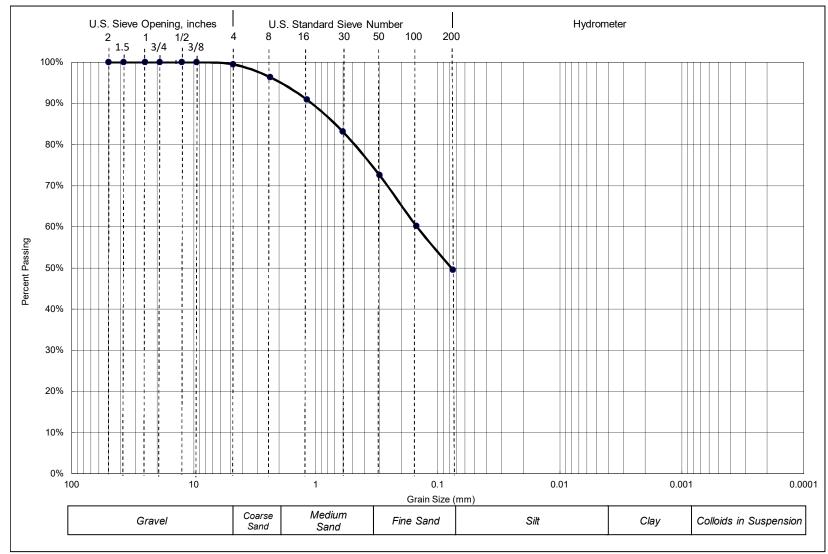
Sieve Size	Particle Size, mm	Percent Passing
1 1/2-in.	37.5	100.0%
1-in.	25	100.0%
3/4-in.	19	100.0%
1/2-in.	12.5	100.0%
3/8-in.	9.5	100.0%
No. 4	4.75	99.4%
No. 8	2.36	95.6%
No. 16	1.18	87.0%
No. 30	0.6	75.0%
No. 50	0.3	62.4%
No. 100	0.15	51.5%
No. 200	0.075	42.47%

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Boring: B-2 @ 2'



2.k

GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA

Project Number: 3-216-1097

Boring: B-2 @ 5'



ASTM C136 (without Hydrometer)

Sieve Size	Particle Size, mm	Percent Passing
1 1/2-in.	37.5	100.0%
1-in.	25	100.0%
3/4-in.	19	100.0%
1/2-in.	12.5	100.0%
3/8-in.	9.5	100.0%
No. 4	4.75	99.5%
No. 8	2.36	96.4%
No. 16	1.18	90.9%
No. 30	0.6	83.1%
No. 50	0.3	72.5%
No. 100	0.15	60.2%
No. 200	0.075	49.53%

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Boring: B-2 @ 5'



EXPANSION INDEX TEST ASTM D 4829 / UBC Std. 29-2

Project Number: 3-216-1097 Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Date: 10/18/2016 Sample location/ Depth: B-1@ 0'-3' Sample Number: 1 Soil Classification: Silty SAND (SM) with trace clay

Trial #	1	2	3
Weight of Soil & Mold, gms	619.5		
Weight of Mold, gms	186.7		
Weight of Soil, gms	432.8		
Wet Density, Lbs/cu.ft.	130.5		
Weight of Moisture Sample (Wet), gms	300.0		
Weight of Moisture Sample (Dry), gms	279.8		
Moisture Content, %	7.2		
Dry Density, Lbs/cu.ft.	121.7		
Specific Gravity of Soil	2.7		
Degree of Saturation, %	50.8		

Time	Inital	30 min	1 hr	6 hrs	12 hrs	24 hrs
Dial Reading	0					0.0110

			E
Expansion Index measured	=	11	E
Expansion Index 50	=	11.3	
Expansion Index =	11		9

Expansion Potential Table		
Exp. Index	Potential Exp.	
0 - 20	Very Low	
21 - 50	Low	
51 - 90	Medium	
91 - 130	High	
>130	Very High	



CHEMICAL ANALYSIS SO₄ - Modified Caltrans 417 & Cl - Modified Caltrans 417/422

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Date: 10/19/2016 Soil Classification: Silty SAND (SM) with trace clay

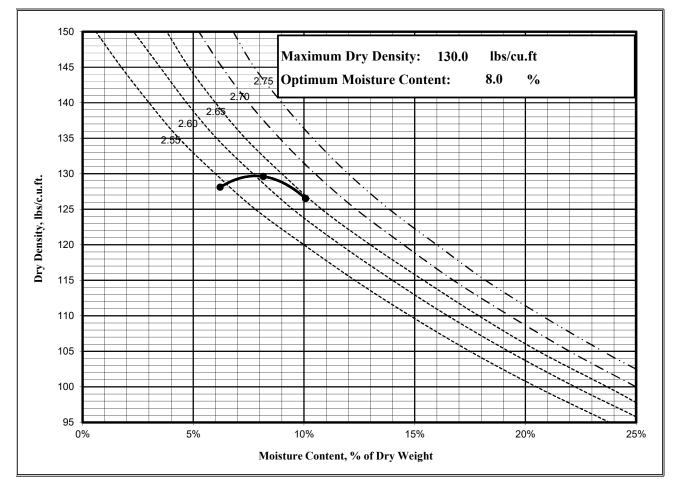
Sample	Sample	Soluble Sulfate	Soluble Chloride	рН
Number	Location	SO ₄ -S	Cl	
1a.	B-1 @ 0' - 3'	143 mg/Kg	164 mg/Kg	7.2
1b.	B-1 @ 0' - 3'	146 mg/Kg	166 mg/Kg	7.2
1c.	B-1 @ 0' - 3'	146 mg/Kg	167 mg/Kg	7.2
Ave	rage:	145 mg/Kg	166 mg/Kg	7.2



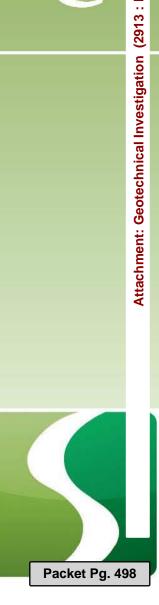
LABORATORY COMPACTION CURVE ASTM - D1557, D698

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Date Tested: 10/18/2016 Sample Location: B-1@ 0'-3' Soil Classification: Silty SAND (SM) with trace clay Sample/Curve Number: 1 Test Method: 1557 A

	1	2	3
Weight of Moist Specimen & Mold, gm	4360.5	4374.8	4312.3
Weight of Compaction Mold, gm	2257.1	2257.1	2257.1
Weight of Moist Specimen, gm	2103.4	2117.7	2055.2
Volume of mold, cu. ft.	0.0333	0.0333	0.0333
Wet Density, lbs/cu.ft.	139.3	140.2	136.1
Weight of Wet (Moisture) Sample, gm	200.0	200.0	200.0
Weight of Dry (Moisture) Sample, gm	181.7	184.9	188.3
Moisture Content, %	10.1%	8.2%	6.2%
Dry Density, lbs/cu.ft.	126.5	129.6	128.1







APPENDIX

When the text of the report conflicts with the general specifications in this appendix, the recommendations in the report have precedence.

1.0 SCOPE OF WORK: These specifications and applicable plans pertain to and include all earthwork associated with the site rough grading, including, but not limited to, the furnishing of all labor, tools and equipment necessary for site clearing and grubbing, stripping, preparation of foundation materials for receiving fill, excavation, processing, placement and compaction of fill and backfill materials to the lines and grades shown on the project grading plans and disposal of excess materials.

2.0 PERFORMANCE: The Contractor shall be responsible for the satisfactory completion of all earthwork in accordance with the project plans and specifications. This work shall be inspected and tested by a representative of SALEM Engineering Group, Incorporated, hereinafter referred to as the Soils Engineer and/or Testing Agency. Attainment of design grades, when achieved, shall be certified by the project Civil Engineer. Both the Soils Engineer and the Civil Engineer are the Owner's representatives. If the Contractor should fail to meet the technical or design requirements embodied in this document and on the applicable plans, he shall make the necessary adjustments until all work is deemed satisfactory as determined by both the Soils Engineer and the Civil Engineer. No deviation from these specifications shall be made except upon written approval of the Soils Engineer, Civil Engineer, or project Architect.

No earthwork shall be performed without the physical presence or approval of the Soils Engineer. The Contractor shall notify the Soils Engineer at least 2 working days prior to the commencement of any aspect of the site earthwork.

The Contractor shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner and the Engineers harmless from any and all liability, real or alleged, in connection with the performance of work on this project, except for liability arising from the sole negligence of the Owner or the Engineers.

3.0 TECHNICAL REQUIREMENTS: All compacted materials shall be densified to no less that 95 percent of relative compaction (90 percent for fine-grained cohesive soils) based on ASTM D1557 Test Method (latest edition), UBC or CAL-216, or as specified in the technical portion of the Soil Engineer's report. The location and frequency of field density tests shall be determined by the Soils Engineer. The results of these tests and compliance with these specifications shall be the basis upon which satisfactory completion of work will be judged by the Soils Engineer.

4.0 SOILS AND FOUNDATION CONDITIONS: The Contractor is presumed to have visited the site and to have familiarized himself with existing site conditions and the contents of the data presented in the Geotechnical Engineering Report. The Contractor shall make his own interpretation of the data contained in the Geotechnical Engineering Report and the Contractor shall not be relieved of liability for any loss sustained as a result of any variance between conditions indicated by or deduced from said report and the actual conditions encountered during the progress of the work.



2.k

5.0 DUST CONTROL: The work includes dust control as required for the alleviation or prevention of any dust nuisance on or about the site or the borrow area, or off-site if caused by the Contractor's operation either during the performance of the earthwork or resulting from the conditions in which the Contractor leaves the site. The Contractor shall assume all liability, including court costs of codefendants, for all claims related to dust or wind-blown materials attributable to his work. Site preparation shall consist of site clearing and grubbing and preparation of foundation materials for receiving fill.

6.0 CLEARING AND GRUBBING: The Contractor shall accept the site in this present condition and shall demolish and/or remove from the area of designated project earthwork all structures, both surface and subsurface, trees, brush, roots, debris, organic matter and all other matter determined by the Soils Engineer to be deleterious. Such materials shall become the property of the Contractor and shall be removed from the site.

Tree root systems in proposed improvement areas should be removed to a minimum depth of 3 feet and to such an extent which would permit removal of all roots greater than 1 inch in diameter. Tree roots removed in parking areas may be limited to the upper 1½ feet of the ground surface. Backfill of tree root excavations is not permitted until all exposed surfaces have been inspected and the Soils Engineer is present for the proper control of backfill placement and compaction. Burning in areas which are to receive fill materials shall not be permitted.

7.0 SUBGRADE PREPARATION: Surfaces to receive Engineered Fill and/or building or slab loads shall be prepared as outlined above, scarified to a minimum of 12 inches, moisture-conditioned as necessary, and recompacted to 95 percent relative compaction (90 percent for fine-grained cohesive soils).

Loose soil areas and/or areas of disturbed soil shall be moisture-conditioned as necessary and recompacted to 95 percent relative compaction (90 percent for fine-grained cohesive soils). All ruts, hummocks, or other uneven surface features shall be removed by surface grading prior to placement of any fill materials. All areas which are to receive fill materials shall be approved by the Soils Engineer prior to the placement of any fill material.

8.0 EXCAVATION: All excavation shall be accomplished to the tolerance normally defined by the Civil Engineer as shown on the project grading plans. All over-excavation below the grades specified shall be backfilled at the Contractor's expense and shall be compacted in accordance with the applicable technical requirements.

9.0 FILL AND BACKFILL MATERIAL: No material shall be moved or compacted without the presence or approval of the Soils Engineer. Material from the required site excavation may be utilized for construction site fills, provided prior approval is given by the Soils Engineer. All materials utilized for constructing site fills shall be free from vegetation or other deleterious matter as determined by the Soils Engineer.

10.0 PLACEMENT, SPREADING AND COMPACTION: The placement and spreading of approved fill materials and the processing and compaction of approved fill and native materials shall be the responsibility of the Contractor. Compaction of fill materials by flooding, ponding, or jetting shall not be permitted unless specifically approved by local code, as well as the Soils Engineer. Both cut and fill shall be surface-compacted to the satisfaction of the Soils Engineer prior to final acceptance.



11.0 SEASONAL LIMITS: No fill material shall be placed, spread, or rolled while it is frozen or thawing, or during unfavorable wet weather conditions. When the work is interrupted by heavy rains, fill operations shall not be resumed until the Soils Engineer indicates that the moisture content and density of previously placed fill is as specified.

12.0 DEFINITIONS - The term "pavement" shall include asphaltic concrete surfacing, untreated aggregate base, and aggregate subbase. The term "subgrade" is that portion of the area on which surfacing, base, or subbase is to be placed. The term "Standard Specifications": hereinafter referred to, is the most recent edition of the Standard Specifications of the State of California, Department of Transportation. The term "relative compaction" refers to the field density expressed as a percentage of the maximum laboratory density as determined by ASTM D1557 Test Method (latest edition) or California Test Method 216 (CAL-216), as applicable.

13.0 PREPARATION OF THE SUBGRADE - The Contractor shall prepare the surface of the various subgrades receiving subsequent pavement courses to the lines, grades, and dimensions given on the plans. The upper 12 inches of the soil subgrade beneath the pavement section shall be compacted to a minimum relative compaction of 95 percent (90 percent for fine-grained cohesive soils) based upon ASTM D1557. The finished subgrades shall be tested and approved by the Soils Engineer prior to the placement of additional pavement courses.

14.0 AGGREGATE BASE - The aggregate base material shall be spread and compacted on the prepared subgrade in conformity with the lines, grades, and dimensions shown on the plans. The aggregate base material shall conform to the requirements of Section 26 of the Standard Specifications for Class II material, ³/₄-inch or 1¹/₂-inches maximum size. The aggregate base material shall be compacted to a minimum relative compaction of 95 percent based upon CAL-216. The aggregate base material shall be tested and approved by the Soils Engineer prior to the placement of successive layers.

15.0 AGGREGATE SUBBASE - The aggregate subbase shall be spread and compacted on the prepared subgrade in conformity with the lines, grades, and dimensions shown on the plans. The aggregate subbase material shall conform to the requirements of Section 25 of the Standard Specifications for Class II Subbase material. The aggregate subbase material shall be compacted to a minimum relative compaction of 95 percent based upon CAL-216, and it shall be spread and compacted in accordance with the Standard Specifications. Each layer of aggregate subbase shall be tested and approved by the Soils Engineer prior to the placement of successive layers.

16.0 ASPHALTIC CONCRETE SURFACING - Asphaltic concrete surfacing shall consist of a mixture of mineral aggregate and paving grade asphalt, mixed at a central mixing plant and spread and compacted on a prepared base in conformity with the lines, grades, and dimensions shown on the plans. The viscosity grade of the asphalt shall be PG 64-10, unless otherwise stipulated or local conditions warrant more stringent grade. The mineral aggregate shall be Type A or B, ½ inch maximum size, medium grading, and shall conform to the requirements set forth in Section 39 of the Standard Specifications. The drying, proportioning, and mixing of the materials shall conform to Section 39. The prime coat, spreading and compacting equipment, and spreading and compacting the mixture shall conform to the applicable chapters of Section 39, with the exception that no surface course shall be placed when the atmospheric temperature is below 50 degrees F. The surfacing shall be rolled with a combination steel-wheel and pneumatic rollers, as described in the Standard Specifications. The surface course shall be placed with an approved self-propelled mechanical spreading and finishing machine.





PRELIMINARY DRAINAGE STUDY

PEN16-0113 (PA16-0077) LST17 - 0010

VACANT LAND SITE PROPOSED CAR WASH IMPROVEMENTS APN: 292-160-023 SUNNYMEAD BLVD. & HEACOCK AVENUE MORENO VALLEY, CA. 92557

PREPARED FOR SH 60 AT HEACOCK STREET, LLC PROPERTY OWNER C/O P&N CONSTRUCTION 8730 WILSHIRE BLVD., SUITE 202 BEVERLY HILLS, CA. 90211



PREPARED BY CIVIL TRANS INC. 732 N. DIAMOND BAR BLVD. SUITE 128 DIAMOND BAR, CA. 91765

DATE: NOVEMBER 27, 2017

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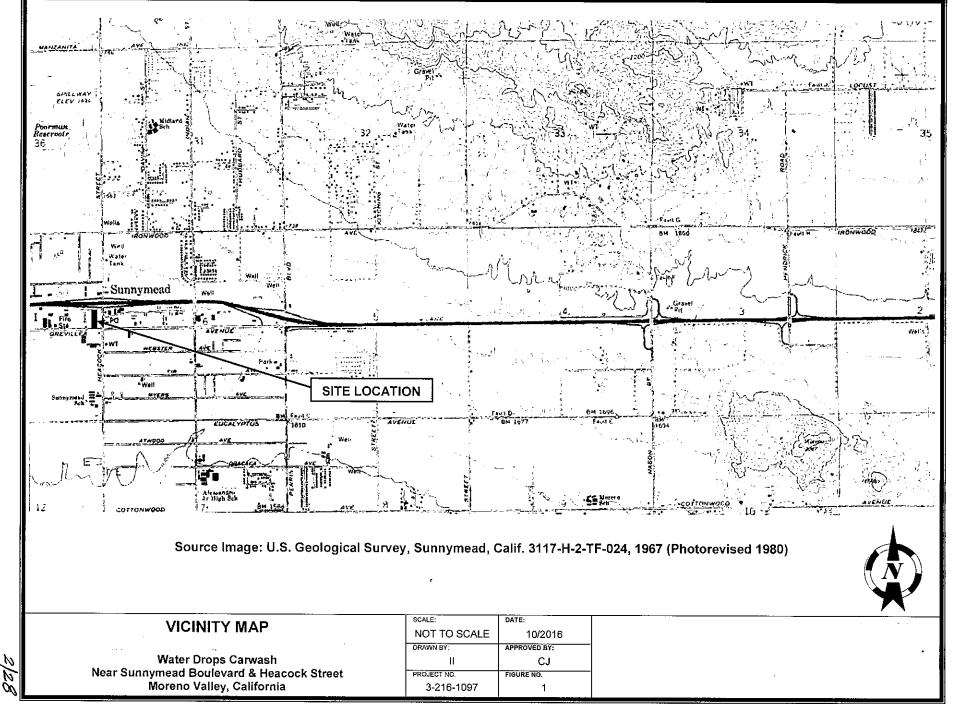
<u>REPORT</u>

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Packet Pg. 503

1/28



2.I

I. Introduction:

The subject site is a commercial use property located on the northwest side of Sunnymead Blvd and Heacock Avenue intersection in Moreno Valley, Riverside County, CA. 92557 as shown on the Vicinity Map. The site is approximately 1.68 acres, which is undeveloped and covered with sparse vegetation and dirt areas. The site is surrounded by mostly commercial and residential properties.

The site area consists of flat terrain which slopes southwards at about 1 percent gradient. The existing site runoff drains southwards as surface flow and is collected by 3- 24inch existing CMP drainage pipes located at the southwest corner of the site. These CMP drainage pipes run southwards across Sunnymead Blvd and through drainage easements on private properties and then eventually connect to the existing Sunnymead A.D.P. Line G-2 Storm Drain System north of Eucalyptus Avenue. (See Exhibit A-Existing Site)

The proposed development on this site consists of one carwash building structure on graded level pad. The proposed structure is located as shown per Exhibit B. There is a 40 feet wide access and exit driveway leading towards the carwash building and site parking areas. With the exception of few landscape areas, the remaining site area is paved and designated for parking use. (See Exhibit B-Improvement site Plan)

Currently, the site drains into existing 3-24inch CMP drain pipes system located at the southwest corner of this property as described above. On site storm water mitigation by utilizing ground infiltration is not feasible because of low infiltration rates of on site soil which does not satisfy the required infiltration criteria. Also, the proposed landscape areas on site are not large enough to justify storm water storage and then using it for irrigation purposes. Hence, a bio-filtration basin is considered to mitigate the post development site runoff. The planned location of this basin is within the landscape area on the south side of the property and just west of the proposed driveway. The basin is designed to mitigate total resulting post development runoff with slow discharge on to the adjacent landscape area and then to surface flow into the existing 24-inch CMP drain pipes that run across Sunnymead Blvd.

There is no change to the existing drainage pattern of the site as a result of proposed improvements. And, providing bio-filtration system for mitigation of post development site runoff would substantially reduce the drainage discharge rate into the existing storm drainage system.

3|28

2.1

II. Existing Site Drainage:

The existing site is approximately 1.68 acres and consists of very flat terrain. The total site drains in southerly direction towards Sunnymead Blvd into existing 3-24 inch CMP drain pipes located at the southwest corner of this site. These drain pipes run across Sunnymead Blvd. and connect to a 31"x 50" arched pipe within existing drainage easements on private properties. This arched pipe continues southwards and connects to the existing Sunnymead ADP line G-2 drainage system. The subject site is tributary to onsite drainage flows only.

<u>Onsite Drainage</u>: Exhibit A-Existing Site shows the existing drainage pattern of the project site which consists of surface drainage from north to south across the entire length of the property towards Sunnymead Blvd and into existing 3-24inch CMP drain pipes system as described above. The existing onsite Q₁₀ runoff totals to 1.49 cfs and Q₁₀₀ runoff is 2.36 cfs.

<u>Offsite Drainage</u>: Based on the current field investigation, there is no offsite drainage from the adjacent properties onto project site area. The westerly adjacent properties are commercial buildings with boundary block wall at the site property line, thus draining that area towards westerly direction and away from the project site. Freeway 60 is on the north side of the subject property and no drainage from the freeway areas flows onto the subject property. The commercial improvements on the east side of the project site drain in easterly and southerly direction and mitigate their own drainage.

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III. Post Development Site Drainage:

The proposed site development consists of one carwash building and open parking areas. The remaining site will include paved sidewalks, driveway, patios, strip planters and landscape areas. The proposed grading is designed to follow the existing drainage pattern of the site surface flows from north to south direction.

As shown on the Improvement Site Plan, the total improvement site is divided into one drainage sub-area to mitigate the resulting storm water runoff. Sub-area D-1 is 1.68 acres and it includes runoff from the new building along with the parking areas and the access and exit driveways. Runoff from these areas is graded to surface flow southwards into a bio-filtration basin for onsite storm water mitigation. The outflow from the basin is controlled discharge onto adjacent landscape area which surface flows towards the existing CMP drain pipes mentioned earlier.

The resulting post development drainage runoff from Sub-area D-1 are $Q_{10} = 3.07$ cfs and $Q_{100} = 4.50$ cfs as shown in Section IV (Hydrology Study and Computations) of this report which are mitigated by means of proposed onsite bio-filtration basin. The outflow from the basin is controlled by providing a 6-inch diameter outlet which has full flowing Q = 0.68 cfs so it does not exceed the pre-development site discharge into the existing 24" CMP drainage pipes.

(See Exhibit B- Improvement Site Plan)

The total post development onsite runoff Q_{10} is 3.07 cfs and Q_{100} is 4.50 cfs as a result of new improvements which include more impervious area. The respective post development increase in drainage runoff for Q_{10} is 1.58 cfs and for Q_{100} is 2.14 cfs which is mitigated by means of controlled outflow discharge from the proposed bio-filtration basin. Mitigated water is discharged from the bio-filtration basin into an adjacent catch basin which has a 6-inch diameter outflow opening onto a rock riprap. The opening has a full flowing Q = 0.68 cfs which is substantially less than the existing condition outflow rates.

Refer to Section IV of this report for Hydrology Study and Computations.

	TA	BLE III.1	.
	Existing and Post	Development Flow Rates	
	Laisting and 1 0st		•
Q	Existing	Post Development	Increase
Q10	1.49 cfs	3.07 cfs	1.58 cfs
Q100	2.36 cfs	4.50 cfs	2.14 cfs

5/28

IV. Hydrology Study and Computations

Attachment: Preliminary Drainage Study [Revision 1] (2913 : PEN16-0113 Plot Plan)

2.1

Reference Material:

- 1. Riverside County Flood Control and Water Conservation District Hydrology Manual.
- 2. Exhibit A-Existing Site.
- 3. Exhibit B-Improvement Site Plan

Project Site Area:

- 1. Total Site Area: 1.68 acres
- 2. Existing Site Sub-area A-1: 1.68 acres
- 3. Post Development Sub-area D-1: 1.68 acres

Hydrologic Data:

1. Initial Time of Concentration: To	Plate D-3
2. Soil Group Designation: B	Plate C-1.17
3. Intensity of Rainfall: I10, I100	Plates D-4.1 & D-4.2
4. Coefficient of Runoff: C	Plate D-5.2

Q10 Computations:

Q = CIA

Sub-Area	С	Ι	Α	Q10
A-1	0.548	1.62 in	1.68 ac	1.49 cfs
D-1	0.870	2.10 in	1.68 ac	3.07 cfs

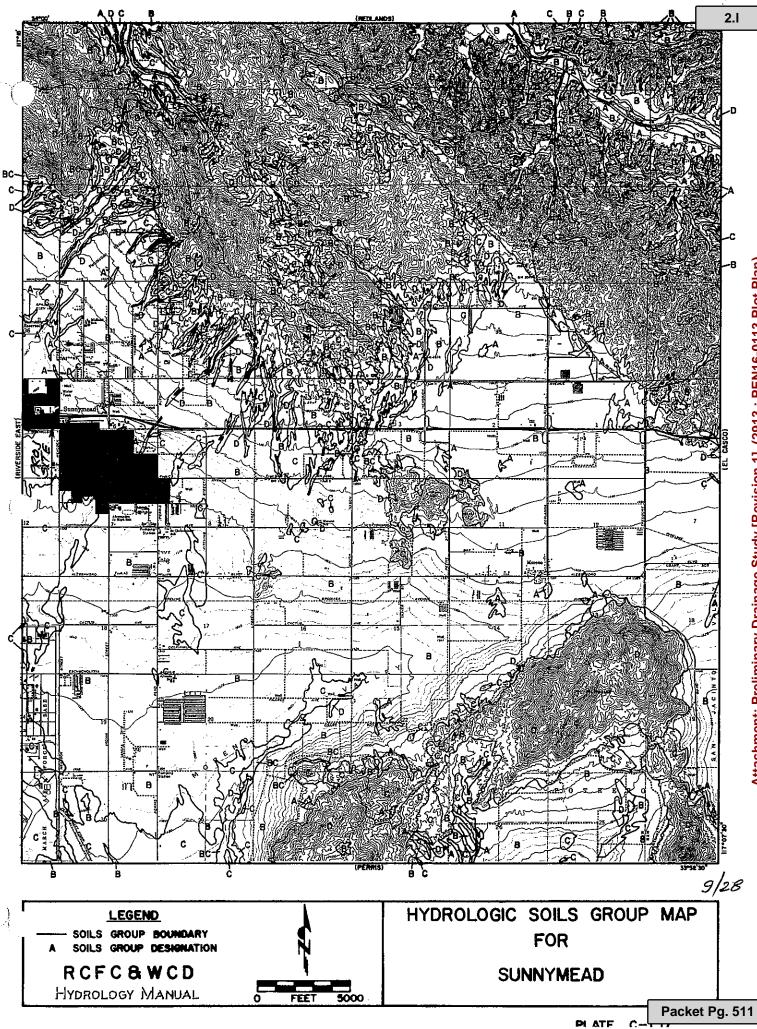
 $\frac{\text{Total Runoff, Existing Site:}}{Q_{10} = 1.49 \text{ cfs}}$

 $\frac{\text{Total Runoff, Developed Site:}}{Q_{10} = 3.07 \text{ cfs}}$

Post Development Runoff Increase = 3.07 - 1.49 = 1.58 cfs

$\frac{Q_{100} \text{ Computation}}{Q = CIA}$	<u>ons:</u>						
Sub-Area	С	I	Α	Q100			
A-1	0.612	2.30 in	1.68 ac	2.36 cfs			
D-1	0.880	3.05 in	1.68 ac	4.50 cfs			
$\frac{\text{Total Runoff, E}}{Q_{100}} = 2.$		<u>te:</u>					
$\frac{\text{Total Runoff, Developed Site:}}{Q_{100} = 4.50 \text{ cfs}}$							

Post Development Runoff Increase = 4.50 - 2.36 = 2.14 cfs



Attachment: Preliminary Drainage Study [Revision 1] (2913 : PEN16-0113 Plot Plan)

PROJECT		DNAL	MET	HOD	CAL(1	10N <i>PN =</i>	FORM		23	Calcu	lated	Sheet No. J by byA	
DRAINAGE AREA	., Soli _. Bi Development	A Acres	i in/hr,		AQ CFS	T Q CFS	1	SECTION		L FT.	T MIN.	٤T	REMA	RKS
A-1 *	VACANY LAND	1.68	1.62	0_543	1.49	1.49	0,016	SURFACE FLOW	0.58	525	15.0	15.0	SURFACE FL NATURAL G	200 AID
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	DEVELOF		<u>G76</u>),								<u></u>		
<u>D-1</u>	<u>B</u>	1.68	2,10	<i>0.87</i> 0	3.07	3.07	0.010	SURFACE FLOW	1.0	5.20	9.0	9.0	SURFACE OV	RFLOW 0 SoveRETE
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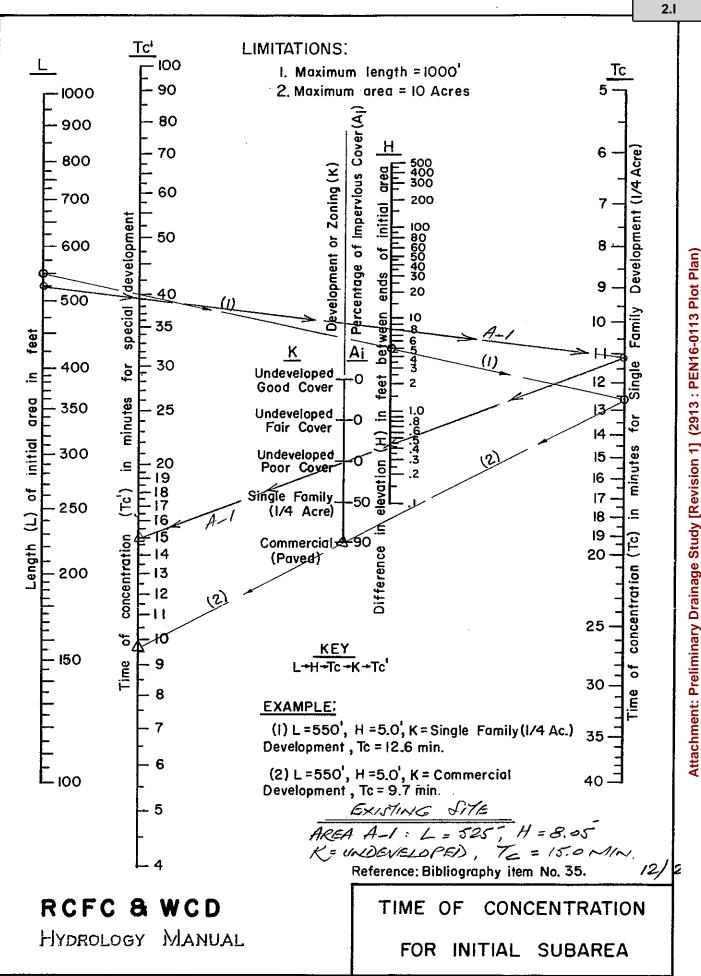
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PLATE D-2

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A	VACANT LAND	1.68	2.30	0.612	2.36	2.36	0.016	SURFACE FLOW	0.58	525	15.0	15,0	SURFACE NATURAL	FLOGI GROUNID
T <u>AL EXISTING RU</u>	NOFF QIOD	1.68			2.36									2
	DEVELOP	R Z	TE											
D-1	B COMMERCIAL			0.880	4.50	4.50	0.10	SURFACT FLOLI	1.0	520	9.0	9,0	SURFACE &	OVERFLOWS. CONCRETE
TOTAL DENELOPED.	KUNOFF \$10.	. 1-68			4.50									
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PLATE D-2



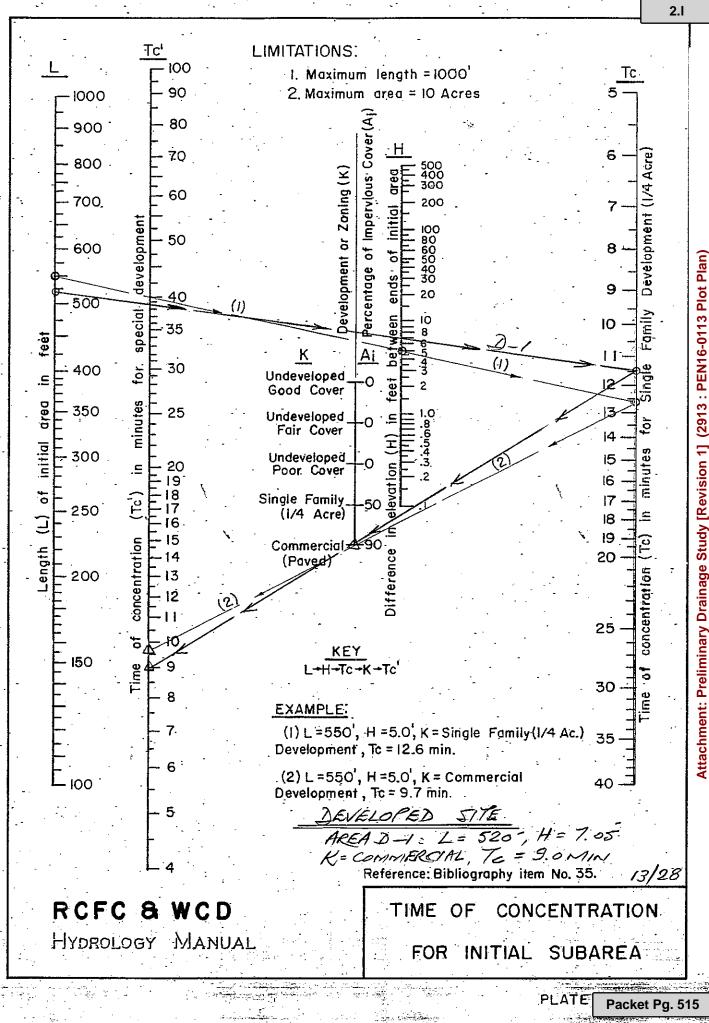


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(2913 : PEN16-0113 Plot Plan)

Attachment: Preliminary Drainage Study [Revision 1]

Packet Pg. 516

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RAINFALL INTENSITY-INCHES PER HOUR

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DURATION MINUTES

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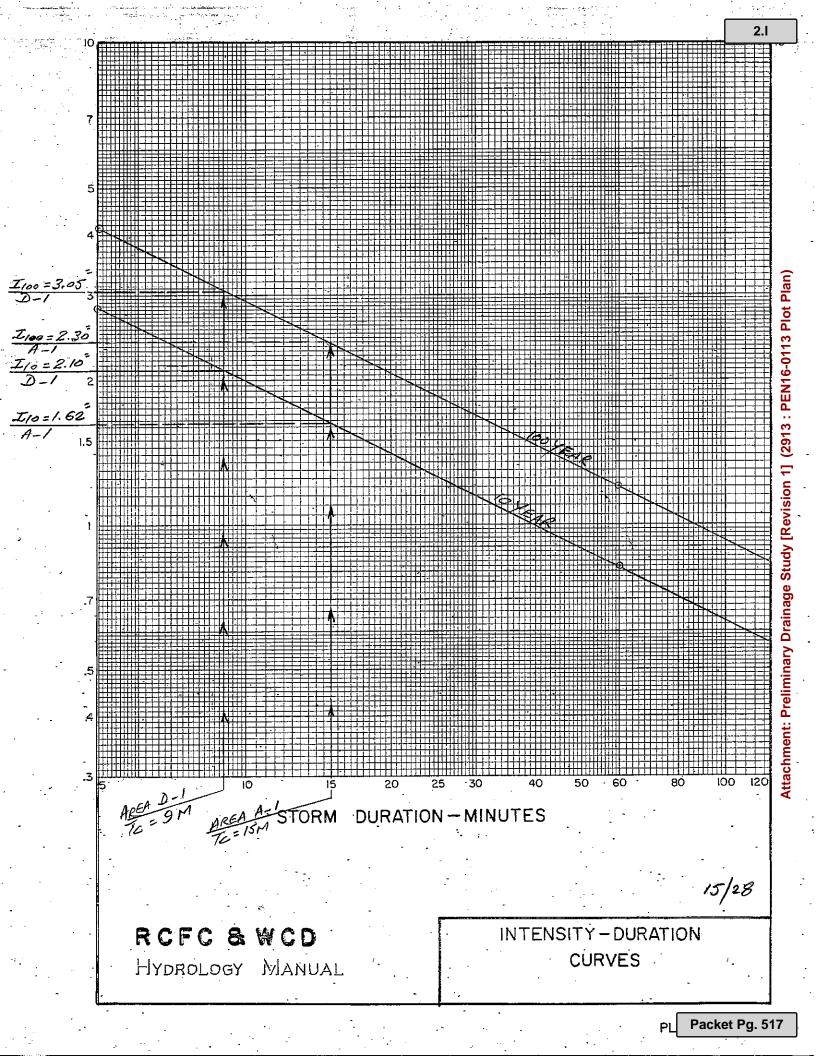
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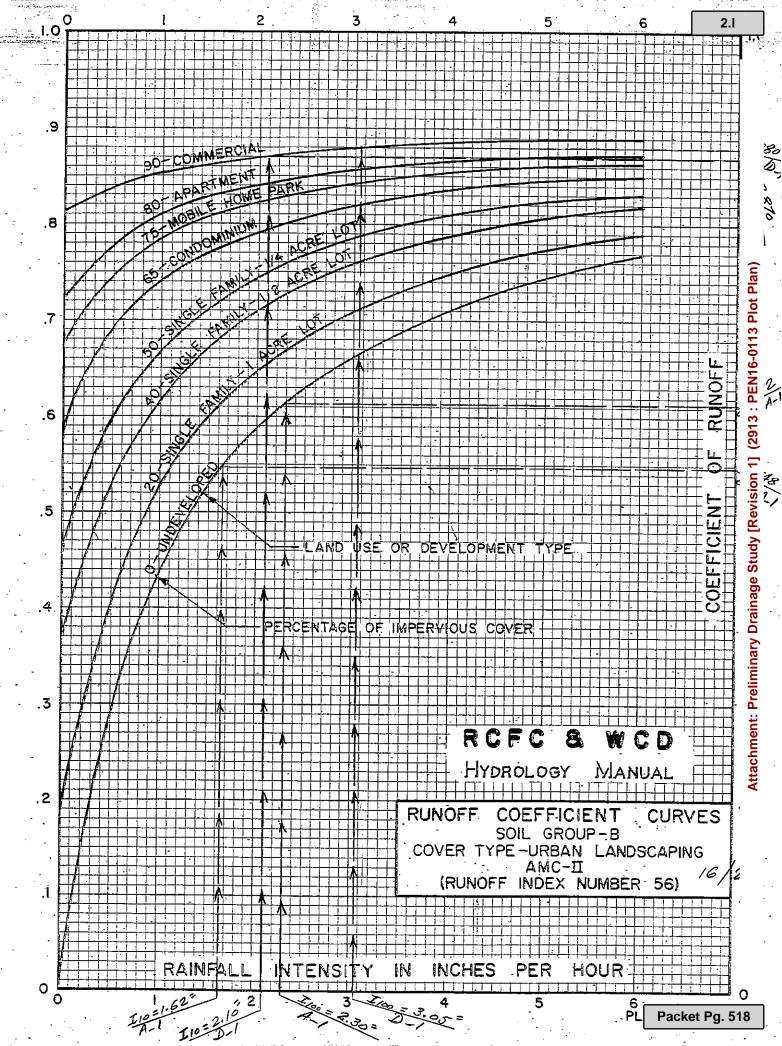
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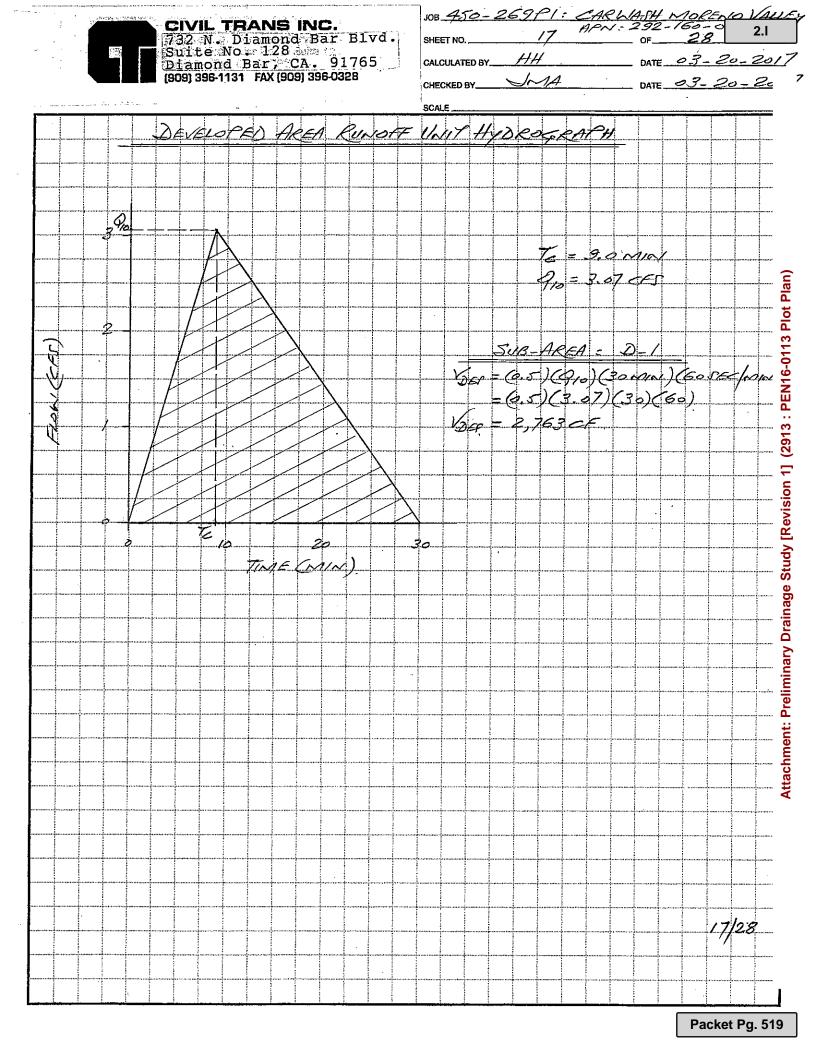
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V. Runoff Mitigation and Hydraulics

18/28

V. Runoff Mitigation and Hydraulics:

As mentioned earlier in this report, the project site is tributary to only onsite drainage runoff resulting from drainage Sub-area D-1. Runoff from roof and impervious areas surface flows southwards and drains into the proposed bio-retention/filtration basin for storm water mitigation as shown on the project plans. The outflow from the basin is controlled so it does not exceed the pre development site discharge into the existing 36-inch drainage pipes. Mitigated water is discharged from the bio-filtration basin into an adjacent catch basin which has a 6-inch diameter outflow opening onto a rock riprap. The opening has a full flowing Q = 0.68 cfs which is substantially less than the existing condition outflow rates.

Onsite ground infiltration is not feasible because of low ground infiltration encountered as shown on the site percolation tests data provided in the soils report.

Also, the proposed site development does not have sufficient landscape/irrigation areas for storm water storage and reuse purpose.

Hence, a 50'x40' bio-retention/filtration basin is proposed to mitigate the post development runoff which is also identified and sized in the project WQMP report.

19|28

Attachment: Preliminary Drainage Study [Revision 1] (2913 : PEN16-0113 Plot Plan)

Soil Percolation Tests and Results VI. Salem Engineering Group inc. Tests date: October 11, 2016

Packet Pg. 522

The water-soluble chloride concentration detected in saturation extract from the soil samples was 166 mg/kg. This level of chloride concentration is not considered severely corrosive. It is recommended that a qualified corrosion engineer be consulted regarding protection of buried steel or ductile iron piping and conduit or, at a minimum, applicable manufacturer's recommendations for corrosion protection of buried metal pipe be closely followed.

8.4 Percolation Testing

Two percolation tests (P-1 and P-2) were performed within assumed infiltration areas and were conducted in accordance with in accordance with the guidelines established by the County of Riverside. The approximate locations of the percolation tests are shown on the attached Site Plan, Figure 2.

Eight-inch diameter boreholes were advanced to the depths shown on the percolation test worksheets. The holes were pre-saturated a minimum of 18 hours and maximum of 24 hours before percolation testing commenced. Percolation rates were measured by filling the test holes with clean water and measuring the water drops at a certain time interval.

The percolation rate data are presented in tabular format at the end of this Report. The difference in the percolation rates are reflected by the varied type of soil materials at the bottom of the test holes. The test results are shown on the table below.

Test No.	Depth (fcet)	Measured Percolation Rate (min/inch)	Tested Infiltration Rate* (inch/hour)	Soil Type
P-1	10	31.3	0.14	Silty SAND /Sandy SILT (SM/ML) with clay
P-2	20	20.8	0.24	Silty SAND (SM) with clay

* Tested infiltration Rate = ($\Delta H 60 r$) / ($\Delta t(r + 2H_{avg})$)

The soil infiltration or percolation rates are based on tests conducted with clear water. The infiltration/percolation rates may vary with time as a result of soil clogging from water impurities. The infiltration/percolation rates will deteriorate over time due to the soil conditions and an appropriate factor of safety (FS) may be applied. The owner or civil engineer may elect to use a lower FS for the design; however, more frequent maintenance will be expected. The soils may also become less permeable to impermeable if the soil is compacted. Thus, periodic maintenance consisting of clearing the bottom of the drainage system of clogged soils should be expected.

The infiltration/percolation rate may become slower if the surrounding soil is wet or saturated due to prolonged rainfalls. Additional percolation tests may be conducted at bottom of the drainage system during construction to verify the infiltration/percolation rate. Groundwater, if closer to the bottom of the drainage system, will also reduce the infiltration/percolation rate.

The scope of our services did not include a groundwater study and was limited to the performance of percolation testing and soil profile description, and the submitted data only. Our services did not include those associated with septic system design. Neither did services include an Environmental Site





Assessment for the presence or absence of hazardous and/or toxic materials in the soil, groundwater, or atmosphere; or the presence of wetlands.

Any statements, or absence of statements, in this report or on any boring logs regarding odors, unusual or suspicious items, or conditions observed, are strictly for descriptive purposes and are not intended to convey engineering judgment regarding potential hazardous and/or toxic assessment.

The geotechnical engineering information presented herein is based upon professional interpretation utilizing standard engineering practices. The work conducted through the course of this investigation, including the preparation of this report, has been performed in accordance with the generally accepted standards of geotechnical engineering practice, which existed in the geographic area at the time the report was written. No other warranty, express or implied, is made.

Please be advised that when performing percolation testing services in relatively small diameter borings, that the testing may not fully model the actual full scale long term performance of a given site. This is particularly true where percolation test data is to be used in the design of large infiltration system such as may be proposed for the site.

The measured percolation rate includes dispersion of the water at the sidewalls of the boring as well as into the underlying soils. Subsurface conditions, including percolation rates, can change over time as finegrained soils migrate. It is not warranted that such information and interpretation cannot be superseded by future geotechnical engineering developments. We emphasize that this report is valid for the project outlined above and should not be used for any other sites.

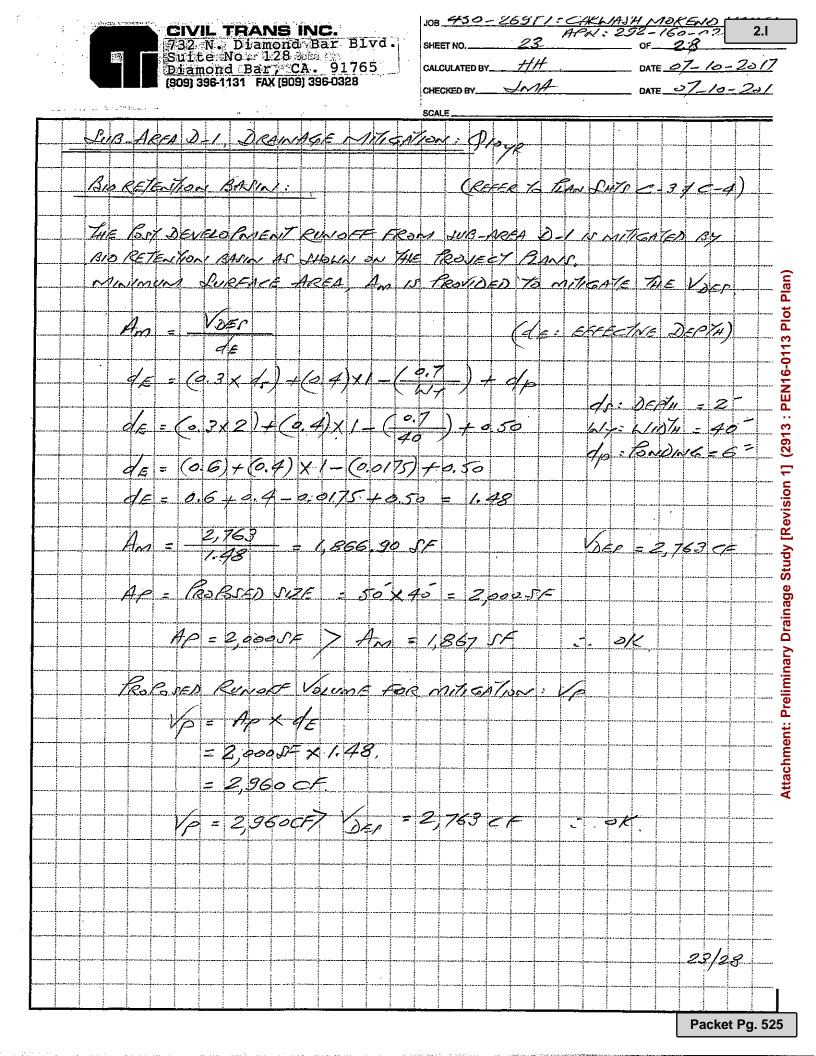
9. CONCLUSIONS AND RECOMMENDATIONS

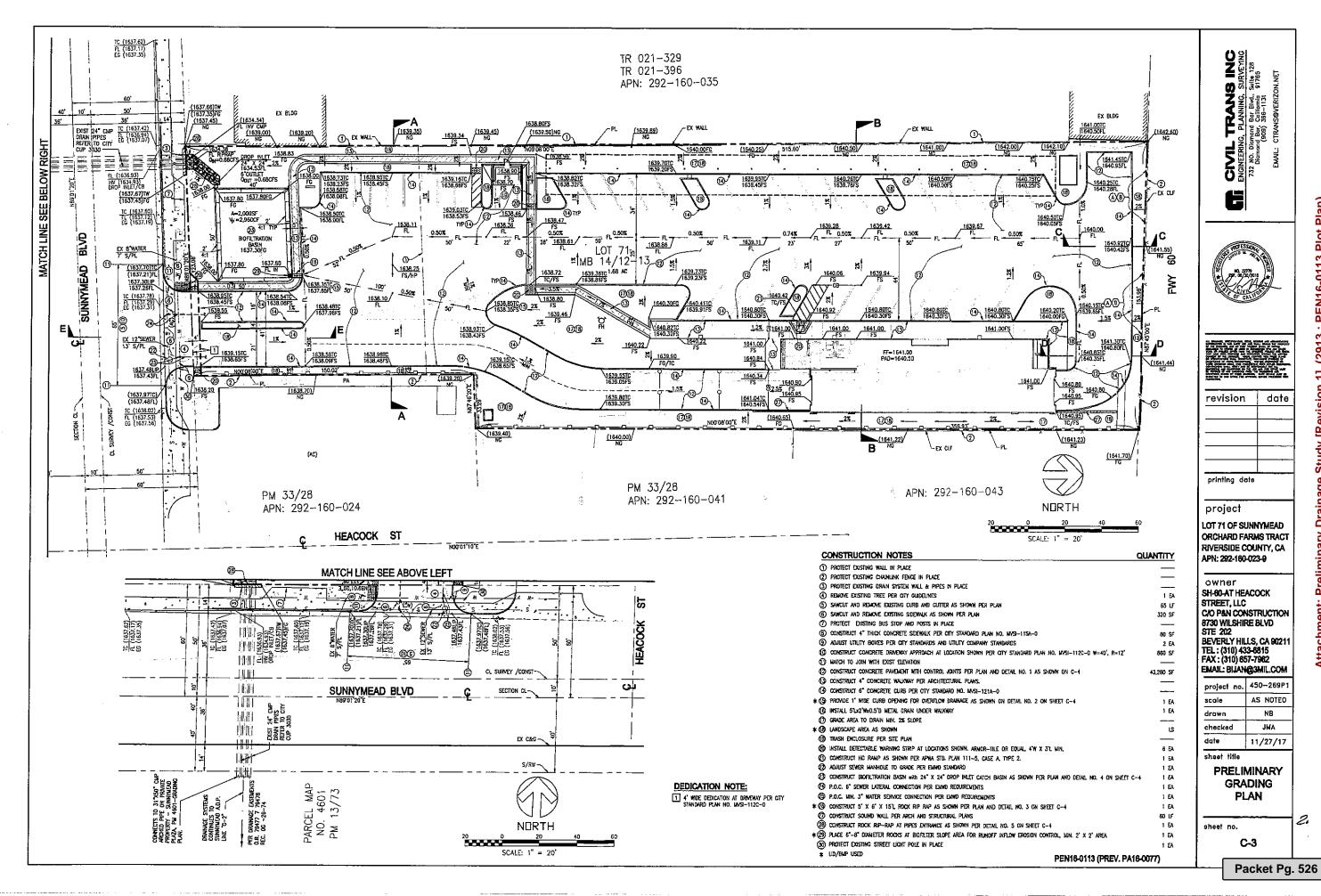
9.1 General

- 9.1.1 Based upon the data collected during this investigation, and from a geotechnical engineering standpoint, it is our opinion that the site is suitable for the proposed construction of improvements at the site as planned, provided the recommendations contained in this report are incorporated into the project design and construction. Conclusions and recommendations provided in this report are based on our review of available literature, analysis of data obtained from our field exploration and laboratory testing program, and our understanding of the proposed development at this time.
- 9.1.2 The primary geotechnical constraints identified in our investigation is the presence of potentially compressible material at the site. Recommendations to mitigate the effects of these soils are provided in this report.
- 9.1.3 Fill materials may be present onsite beyond our boring location. The fill materials consisted of loose to medium dense silty sand. Undocumented fill materials are not suitable to support any future structures and should be replaced with Engineered Fill. The extent and consistency of the fills should be verified during site construction. Prior to fill placement, Salem Engineering Group, Inc. should inspect the bottom of the excavation to verify the fill condition.

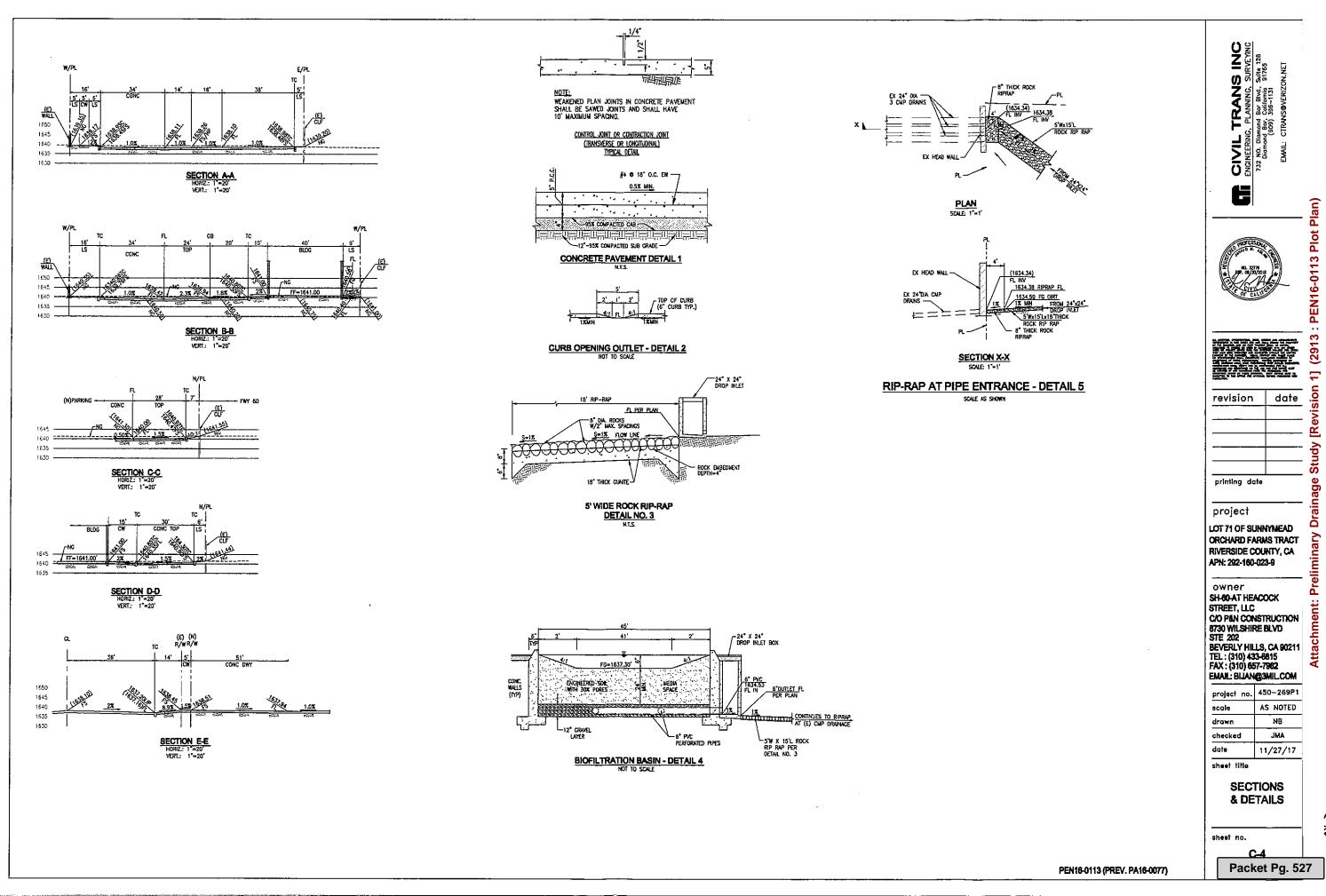
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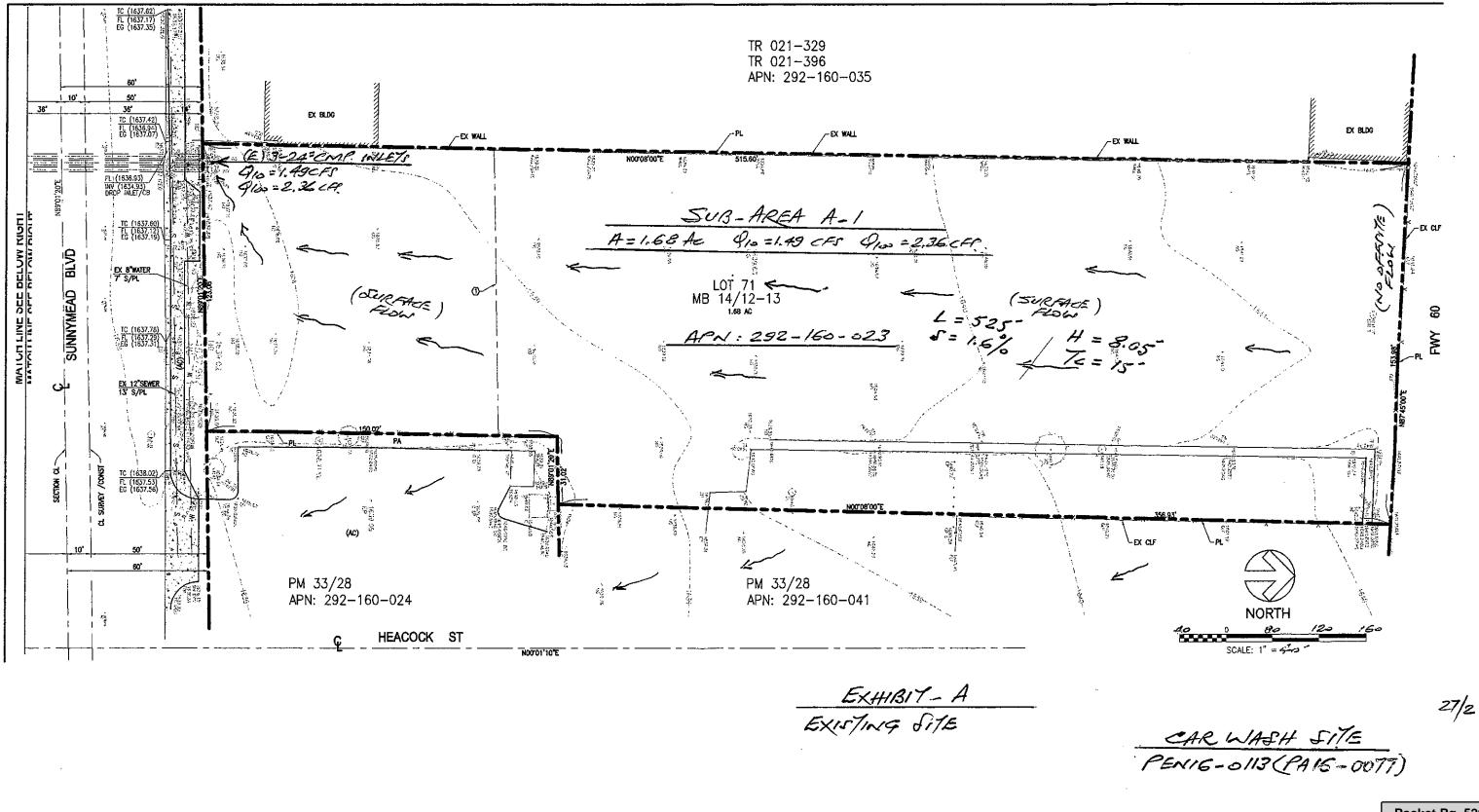


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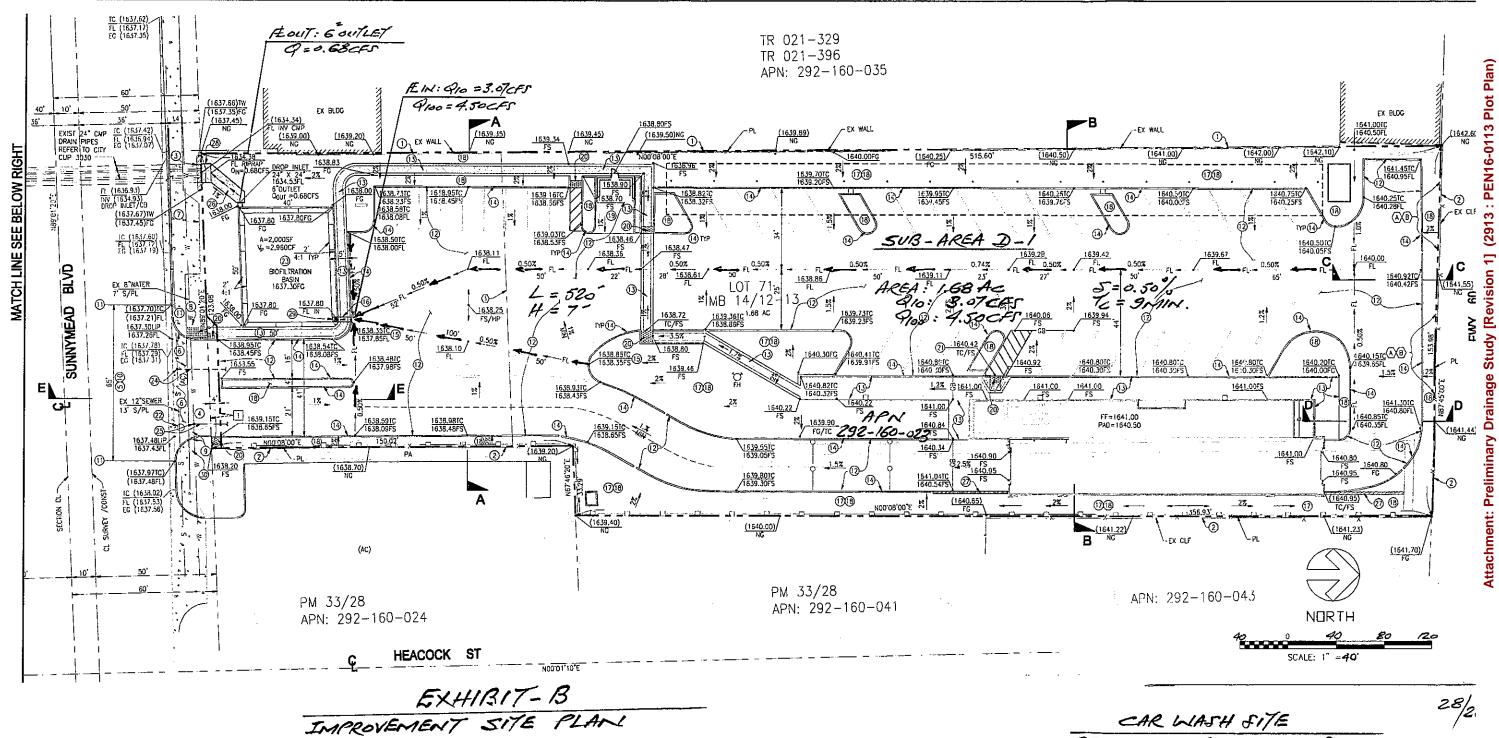


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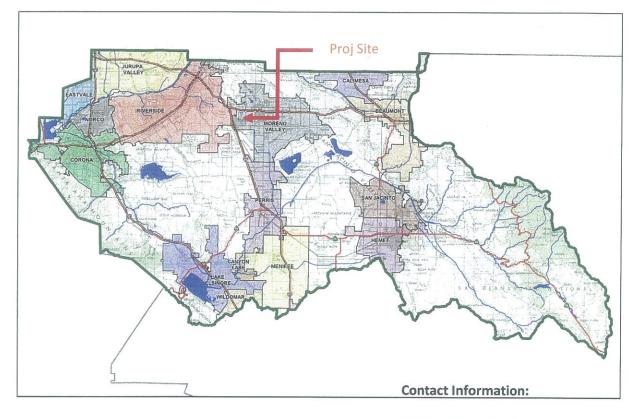
Project Specific Water Quality Management Plan

A Template for Projects located within the Santa Ana Watershed Region of Riverside County

Project Title: Proposed Car wash Site Improvement

Development No: PEN16-0113(PA16-0077)

Design Review/Case No: PEN16-0113(PA16-0077)



Prepared for: Sh-60 at Heacock Street, LLC C/) Quanah West Management, LLC. Eric Chess Bronk Tel: (714)267-2552

Prepared by: Javaid M. Aslam, P.E Principal In-Charge Civil Trans Inc. 732 N. Diamond Bar Blvd. Ste.128, Diamond Bar, CA 91765 Tel: (909)396-1131

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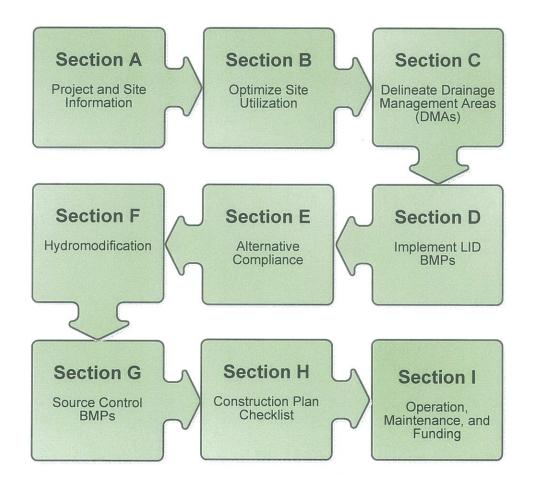
Original Date Prepared: 03-20-2017

Revision Date(s): 07-10-2017, 10-10-2017, 11-20-2017 11-30-2017

Prepared for Compliance with Regional Board Order No. <u>R8-2010-0033</u> 2.m

A Brief Introduction

This Project-Specific WQMP Template for the **Santa Ana Region** has been prepared to help guide you in documenting compliance for your project. Because this document has been designed to specifically document compliance, you will need to utilize the WQMP Guidance Document as your "how-to" manual to help guide you through this process. Both the Template and Guidance Document go hand-in-hand, and will help facilitate a well prepared Project-Specific WQMP. Below is a flowchart for the layout of this Template that will provide the steps required to document compliance.



OWNER'S CERTIFICATION

This Project-Specific Water Quality Management Plan (WQMP) has been prepared for SH-60 at Heacock Street, LLC. by Javaid M. Aslam, P.E./Civil Trans Inc. for the Proposed Car Wash Site Improvement Project.

This WQMP is intended to comply with the requirements of City of Moreno Valley for Ordinance No. 8.27 which includes the requirement for the preparation and implementation of a Project-Specific WQMP.

The undersigned, while owning the property/project described in the preceding paragraph, shall be responsible for the implementation and funding of this WQMP and will ensure that this WQMP is amended as appropriate to reflect up-to-date conditions on the site. In addition, the property owner accepts responsibility for interim operation and maintenance of Stormwater BMPs until such time as this responsibility is formally transferred to a subsequent owner. This WQMP will be reviewed with the facility operator, facility supervisors, employees, tenants, maintenance and service contractors, or any other party (or parties) having responsibility for implementing portions of this WQMP. At least one copy of this WQMP will be maintained at the project site or project office in perpetuity. The undersigned is authorized to certify and to approve implementation of this WQMP. The undersigned is aware that implementation of this WQMP is enforceable under City of Moreno Valley Water Quality (Municipal code 8.10.)

"I, the undersigned, certify under penalty of law that the provisions of this WQMP have been reviewed and accepted and that the WQMP will be transferred to future successors in interest."

Owner's Signature

Owner's Printed Name

PREPARER'S CERTIFICATION

"The selection, sizing and design of stormwater treatment and other stormwater quality and quantity control measures in this plan meet the requirements of Regional Water Quality Control Board Order No. R8-2010-0033 and any subsequent amendments thereto."



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

1 21		verifies only the identity of the individual who signed the ruthfulness, accuracy, or validity of that document.
State of California)	
County of Los Angeles)	
ON NOVEMBER 22,8017	before me, Elizabeth	Gonzalez-Aguirre, Notary Public
Date		Here Insert Name and Title of the Officer
personally appeared Bein	2ad Bundan	
C C		Name (a) o f Signer (s)
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who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/aresubscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

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State of California

)
County of Los Angeles

)
On <u>WWMAY 22, 2017</u> before me, <u>Elizabeth Gonzalez-Aguirre, Notary Public</u>
Date
Date
Date
Being Being (a)

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(e) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal. Signatur 8ianature of Notar

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

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	ges: Signer(s) Other That					
	Claimed by Signer(s)					
Signer's Name:		Signer's Name:				
Corporate Of	ficer — Title(s):	Corporate Officer – Title(s):				
□ Partner - □	Limited 🛛 General	🗆 🗆 Partner — 🗋	Lingited 🗇 General			
🗆 Individual	Attorney in Fact	🗆 Individual	Attorney in Fact			
🗆 Trustee	Guardian or Conservator	🗆 Trustee	Guardian or Conservator			
Other:		Other:				
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Section A: Project and Site Information

PROJECT INFORMATION		_ , , _ , ,	
Type of Project:	Commercial		
Planning Area:	SP 204		
Community Name:	N/A		
Development Name:	Car Wash Site Improvement		
PROJECT LOCATION			
Latitude & Longitude (DMS)	: 33.943922; -177.24461		
Project Watershed and Sub	-Watershed: Sunnymead, ADP Line G-2, Perris Valley, Storm Dra	ain, San Jao	cinto reaches 2 &
3, Santa Ana River basin			
APN(s): 292-160-023-9			
Map Book and Page No.: M	3 014/012-013		
PROJECT CHARACTERISTICS			
Proposed or Potential Land	Use(s)	Comme	ercial
Proposed or Potential SIC Co	ode(s)	7542	
Area of Impervious Project Footprint (SF) 56,107 (BLDG)		(BLDG)	
	ervious Surfaces within the Project Limits (SF)/or Replacement	56,107	
Does the project consist of c	offsite road improvements?	🗌 Y	🛛 N
Does the project propose to	•	Y	N 🛛
	r common plan of development (phased project)?	Y	N 🛛
EXISTING SITE CHARACTERISTICS			
	vious Surfaces within the project limits (SF)	120	
Is the project located within	•	Y	N
If so, identify the Cell number			
· · ·	logic features on the project site?	□ Y	N
Is a Geotechnical Report atta		X Y	<u>N</u>
	e NRCS soils type(s) present on the site (A, B, C and/or D)	Туре В	ĺ
What is the Water Quality D	esign Storm Depth for the project?	0.65	

A.1 Maps and Site Plans

When completing your Project-Specific WQMP, include a map of the local vicinity and existing site. In addition, include all grading, drainage, landscape/plant palette and other pertinent construction plans in Appendix 2. At a **minimum**, your WQMP Site Plan should include the following:

- Drainage Management Areas
- Proposed Structural BMPs
- Drainage Path
- Drainage Infrastructure, Inlets, Overflows
- Source Control BMPs
- Buildings, Roof Lines, Downspouts
- Impervious Surfaces
- Standard Labeling

Use your discretion on whether or not you may need to create multiple sheets or can appropriately accommodate these features on one or two sheets. Keep in mind that the Co-Permittee plan reviewer must be able to easily analyze your project utilizing this template and its associated site plans and maps.

A.2 Identify Receiving Waters

Using Table A.1 below, list in order of upstream to downstream, the receiving waters that the project site is tributary to. Continue to fill each row with the Receiving Water's 303(d) listed impairments (if any), designated beneficial uses, and proximity, if any, to a RARE beneficial use. Include a map of the receiving waters in Appendix 1.

Receiving Waters	EPA Approved 303(d) List Impairments	Designated Beneficial Uses	Proximity to RARE Beneficial Use
CMP Drain-Cup 3030	N/A	N/A	N/A
Lines G1, G2	N/A	N/A	N/A
Line G	N/A	N/A	N/A
Line B	N/A	N/A	N/A
Line A	N/A	N/A	N/A
Perris Valley Storm Drain	N/A	N/A	N/A
San Jacinto River Reach 3	None	AGR, GWR, MUN, REC1 ,REC 2, WARM, WILD	N/A
San Jacinto River Reach 2, Canyon Lake	Nutrients, Pathogens	AGR, GWR, MUN REC1 ,REC 2, WARM, WILD	N/A

Table A.1 Identification of Receiving Waters

A.3 Additional Permits/Approvals required for the Project:

Table A.2 Other Applicable Permits

Agency	Permit Required	
State Department of Fish and Game, 1602 Streambed Alteration Agreement	ΠY	⊠ N
State Water Resources Control Board, Clean Water Act (CWA) Section 401 Water Quality Cert.	ΠY	N
US Army Corps of Engineers, CWA Section 404 Permit	ΠY	⊠ N
US Fish and Wildlife, Endangered Species Act Section 7 Biological Opinion	ΠY	N 🛛
Statewide Construction General Permit Coverage	×Ν	
Statewide Industrial General Permit Coverage	ΠY	ΜN
Western Riverside MSHCP Consistency Approval (e.g., JPR, DBESP)	ΠY	Ν
City Fire Dept. Approval	×Ν	N
City Building and Safety Grading Permit	×Ν	□ N

If yes is answered to any of the questions above, the Co-Permittee may require proof of approval/coverage from those agencies as applicable including documentation of any associated requirements that may affect this Project-Specific WQMP.

Attachment: P-WQMP [Revision 2] (2913 : PEN16-0113 Plot Plan)

Section B: Optimize Site Utilization (LID Principles)

Review of the information collected in Section 'A' will aid in identifying the principal constraints on site design and selection of LID BMPs as well as opportunities to reduce imperviousness and incorporate LID Principles into the site and landscape design. For example, **constraints** might include impermeable soils, high groundwater, groundwater pollution or contaminated soils, steep slopes, geotechnical instability, high-intensity land use, heavy pedestrian or vehicular traffic, utility locations or safety concerns. **Opportunities** might include existing natural areas, low areas, oddly configured or otherwise unbuildable parcels, easements and landscape amenities including open space and buffers (which can double as locations for bioretention BMPs), and differences in elevation (which can provide hydraulic head). Prepare a brief narrative for each of the site optimization strategies described below. This narrative will help you as you proceed with your LID design and explain your design decisions to others.

The 2010 Santa Ana MS4 Permit further requires that LID Retention BMPs (Infiltration Only or Harvest and Use) be used unless it can be shown that those BMPs are infeasible. Therefore, it is important that your narrative identify and justify if there are any constraints that would prevent the use of those categories of LID BMPs. Similarly, you should also note opportunities that exist which will be utilized during project design. Upon completion of identifying Constraints and Opportunities, include these on your WQMP Site plan in Appendix 1.

Site Optimization

The following questions are based upon Section 3.2 of the WQMP Guidance Document. Review of the WQMP Guidance Document will help you determine how best to optimize your site and subsequently identify opportunities and/or constraints, and document compliance.

Did you identify and preserve existing drainage patterns? If so, how? If not, why?

Yes, Existing site survey was used to identify existing drainage pattern and the proposed improvements were designed by keeping the same flow patterns.

Did you identify and protect existing vegetation? If so, how? If not, why?

No, existing site is undeveloped land with no existing vegetation.

Did you identify and preserve natural infiltration capacity? If so, how? If not, why?

Yes, the site natural infiltration capacity was obtained from field percolation tests, 0.14 to 0.24 inches/hr. which is less than 1.6inches/hr. as required. So DMAs mitigation by infiltration cannot be used.

Did you identify and minimize impervious area? If so, how? If not, why?

The site is a carwash facility requiring impervious driveway and parking areas, so maximum available pervious landscape areas are provided as best as possible.

Did you identify and disperse runoff to adjacent pervious areas? If so, how? If not, why?

Yes, wherever possible pervious landscape areas are utilized to disperse runoff.

- 8 -

Section C: Delineate Drainage Management Areas (DMAs)

Utilizing the procedure in Section 3.3 of the WQMP Guidance Document which discusses the methods of delineating and mapping your project site into individual DMAs, complete Table C.1 below to appropriately categorize the types of classification (e.g., Type A, Type B, etc.) per DMA for your project site. Upon completion of this table, this information will then be used to populate and tabulate the corresponding tables for their respective DMA classifications.

DMA Name or ID	Surface Type(s) ¹	Area (Sq. Ft.)	DMA Type
A/1	Ornamental Landscaping	4,600	Α
A/2	Ornamental Landscaping	5,430	A
A/3	Ornamental Landscaping	750	Α
A/4	Ornamental Landscaping	1,590	A
A/5	Ornamental Landscaping	4,178	A
D/1	Roof	5,490	D
D/2	Concrete	2,400	D
D/3	Mixed Surface Types	4,295	D
D/4	Concrete	24,210	D
D/5	Concrete	17,232	D
D/6	Mixed Surface Types	2,480	D
_			

Table C.1 DMA Classifications

¹Reference Table 2-1 in the WQMP Guidance Document to populate this column

Table C.2 Type 'A', Self-Treating Areas

DMA Name or ID	Area (Sq. Ft.)	Stabilization Type	Irrigation Type (if any)
A/1	4,600	LANDSCAPE	N/A
A/2	5,430	LANDSCAPE	N/A
A/2 A/3	750	LANDSCAPE	N/A
A/4	1,590	LANDSCAPE	N/A
A/5	4,178	LANDSCAPE	N/A

Self-Reta	ining Area			Type 'C' DM Area	As that are drai	ning to tl	he Self-Re	taining
DMA Name/ ID	Post-project surface type	Area (square feet) [A]	Storm Depth (inches) [B]		[C] from Table C.4 = [C]	Required (inches) [D]	Retention	Depth
								
						-		

$$[D] = [B] + \frac{[B] \cdot [C]}{[A]}$$

	pe C, Areas th	at Drain to Se	en-Retainin	ig Areas	1 		
DMA	DMA				Receiving Self-	Retaining DMA	
DMA Name/ ID	S Area (square feet)	Post-project surface type	[8] factor	Product [C] = [A] x [B]	DMA name /ID	Area (square feet) [D]	Ratio [C]/[D]
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Table C.4 Type 'C', Areas that Drain to Self-Retaining Areas

Table C.5 Type 'D', Areas Draining to BMP

DMA Name or ID	BMP Name or ID
D/1: Roof	Bio-Infiltration Basin: LID BMP1
D/2: Concrete	Same
D/3: Mixed Surface Types	Same
D/4: Concrete	Same
D/5: Concrete	Same
D/6: Mixed Surface Types	Same

<u>Note</u>: More than one drainage management area can drain to a single LID BMP, however, one drainage management area may not drain to more than one BMP.

2.m

Section D: Implement LID BMPs

D.1 Infiltration Applicability

Is there an approved downstream 'Highest and Best Use' for stormwater runoff (see discussion in Chapter 2.4.4 of the WQMP Guidance Document for further details)? $\square Y \boxtimes N$

If yes has been checked, Infiltration BMPs shall not be used for the site. If no, continue working through this section to implement your LID BMPs. It is recommended that you contact your Co-Permittee to verify whether or not your project discharges to an approved downstream 'Highest and Best Use' feature.

Geotechnical Report

A Geotechnical Report or Phase I Environmental Site Assessment may be required by the Copermittee to confirm present and past site characteristics that may affect the use of Infiltration BMPs. In addition, the Co-Permittee, at their discretion, may not require a geotechnical report for small projects as described in Chapter 2 of the WQMP Guidance Document. If a geotechnical report has been prepared, include it in Appendix 3. In addition, if a Phase I Environmental Site Assessment has been prepared, include it in Appendix 4.

Is this project classified as a small project consistent with the requirements of Chapter 2 of the WQMP Guidance Document? \Box Y \bigotimes N

Infiltration Feasibility

Table D.1 below is meant to provide a simple means of assessing which DMAs on your site support Infiltration BMPs and is discussed in the WQMP Guidance Document in Chapter 2.4.5. Check the appropriate box for each question and then list affected DMAs as applicable. If additional space is needed, add a row below the corresponding answer.

Does the project site	YES	NO
have any DMAs with a seasonal high groundwater mark shallower than 10 feet?		X
If Yes, list affected DMAs:		
have any DMAs located within 100 feet of a water supply well?		X
If Yes, list affected DMAs:		
have any areas identified by the geotechnical report as posing a public safety risk where infiltration of stormwater could have a negative impact?		x
If Yes, list affected DMAs:		
have measured in-situ infiltration rates of less than 1.6 inches / hour?	x	
If Yes, list affected DMAs:		
have significant cut and/or fill conditions that would preclude in-situ testing of infiltration rates at the final infiltration surface?	-	X
If Yes, list affected DMAs:		
geotechnical report identify other site-specific factors that would preclude effective and safe infiltration?		x
Describe here:		

If you answered "Yes" to any of the questions above for any DMA, Infiltration BMPs should not be used for those DMAs and you should proceed to the assessment for Harvest and Use below.

D.2 Harvest and Use Assessment

Please check what applies:

□ Reclaimed water will be used for the non-potable water demands for the project.

Downstream water rights may be impacted by Harvest and Use as approved by the Regional Board (verify with the Copermittee).

The Design Capture Volume will be addressed using Infiltration Only BMPs. In such a case, Harvest and Use BMPs are still encouraged, but it would not be required if the Design Capture Volume will be infiltrated or evapotranspired.

If any of the above boxes have been checked, Harvest and Use BMPs need not be assessed for the site. If neither of the above criteria applies, follow the steps below to assess the feasibility of irrigation use, toilet use and other non-potable uses (e.g., industrial use).

Irrigation Use Feasibility

Complete the following steps to determine the feasibility of harvesting storm water runoff for Irrigation Use BMPs on your site:

Step 1: Identify the total area of irrigated landscape on the site, and the type of landscaping used.

The total irrigated landscape area: 16,548 SF

Type of Landscaping: Conservation Design

Step 2: Identify the planned total of all impervious areas on the proposed project from which runoff might be feasibly captured and stored for irrigation use. Depending on the configuration of buildings and other impervious areas on the site, you may consider the site as a whole, or parts of the site, to evaluate reasonable scenarios for capturing and storing runoff and directing the stored runoff to the potential use(s) identified in Step 1 above.

Total Area of Impervious Surfaces: 1.29 Acres

Step 3: Cross reference the Design Storm depth for the project site (see Exhibit A of the WQMP Guidance Document) with the left column of Table 2-3 in Chapter 2 to determine the minimum area of Effective Irrigated Area per Tributary Impervious Area (EIATIA).

Enter your EIATIA factor: 1.05

Step 4: Multiply the unit value obtained from Step 3 by the total of impervious areas from Step 2 to develop the minimum irrigated area that would be required.

Minimum required irrigated area: 1.35 Acres

Step 5: Determine if harvesting stormwater runoff for irrigation use is feasible for the project by comparing the total area of irrigated landscape (Step 1) to the minimum required irrigated area (Step 4).

Minimum required irrigated area (Step 4)	Available Irrigated Landscape (Step 1)
1.35 Acres	0.38 Acres

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Toilet Use Feasibility

Complete the following steps to determine the feasibility of harvesting storm water runoff for toilet flushing uses on your site:

Step 1: Identify the projected total number of daily toilet users during the wet season, and account for any periodic shut downs or other lapses in occupancy:

Projected Number of Daily Toilet Users: 10

Project Type: Commercial

Step 2: Identify the planned total of all impervious areas on the proposed project from which runoff might be feasibly captured and stored for toilet use. Depending on the configuration of buildings and other impervious areas on the site, you may consider the site as a whole, or parts of the site, to evaluate reasonable scenarios for capturing and storing runoff and directing the stored runoff to the potential use(s) identified in Step 1 above.

Total Area of Impervious Surfaces: 1.29 Acres

Step 3: Enter the Design Storm depth for the project site (see Exhibit A) into the left column of Table 2-1 in Chapter 2 to determine the minimum number or toilet users per tributary impervious acre (TUTIA).

Enter your TUTIA factor: 141

Step 4: Multiply the unit value obtained from Step 3 by the total of impervious areas from Step 2 to develop the minimum number of toilet users that would be required.

Minimum number of toilet users: 182

Step 5: Determine if harvesting stormwater runoff for toilet flushing use is feasible for the project by comparing the Number of Daily Toilet Users (Step 1) to the minimum required number of toilet users (Step 4).

Minimum required Toilet Users (Step 4)	Projected number of toilet users (Step 1)
182	10

Other Non-Potable Use Feasibility

Are there other non-potable uses for stormwater runoff on the site (e.g. industrial use)? See Chapter 2 of the Guidance for further information. If yes, describe below. If no, write N/A.

N/A

Step 1: Identify the projected average daily non-potable demand, in gallons per day, during the wet season and accounting for any periodic shut downs or other lapses in occupancy or operation.

Average Daily Demand: Projected Average Daily Use (gpd)

Step 2: Identify the planned total of all impervious areas on the proposed project from which runoff might be feasibly captured and stored for the identified non-potable use. Depending on the configuration of buildings and other impervious areas on the site, you may consider the site as a whole, or parts of the site, to evaluate reasonable scenarios for capturing and storing runoff and directing the stored runoff to the potential use(s) identified in Step 1 above.

Total Area of Impervious Surfaces:

- 14 -

Step 3: Enter the Design Storm depth for the project site (see Exhibit A) into the left column of Table 2-3 in Chapter 2 to determine the minimum demand for non-potable uses per tributary impervious acre.

Enter the factor from Table 2-3: N/A

Step 4: Multiply the unit value obtained from Step 4 by the total of impervious areas from Step 3 to develop the minimum number of gallons per day of non-potable use that would be required.

Minimum required use: N/A

Step 5: Determine if harvesting storm water runoff for other non-potable use is feasible for the project by comparing the Number of Daily Toilet Users (Step 1) to the minimum required number of toilet users (Step 4).

Minimum required non-potable use (Step 4)	Projected average daily use (Step 1)
N/A	Projected Average Daily Use (gpd)

ı

If Irrigation, Toilet and Other Use feasibility anticipated demands are less than the applicable minimum values, Harvest and Use BMPs are not required and you should proceed to utilize LID Bio retention and Bio treatment, unless a site-specific analysis has been completed that demonstrates technical infeasibility as noted in D.3 below.

D.3 Bioretention and Biotreatment Assessment

Other LID Bioretention and Biotreatment BMPs as described in Chapter 2.4.7 of the WQMP Guidance Document are feasible on nearly all development sites with sufficient advance planning.

Select one of the following:

LID Bioretention/Biotreatment BMPs will be used for some or all DMAs of the project as noted below in Section D.4 (note the requirements of Section 3.4.2 in the WQMP Guidance Document).

□ A site-specific analysis demonstrating the technical infeasibility of all LID BMPs has been performed and is included in Appendix 5. If you plan to submit an analysis demonstrating the technical infeasibility of LID BMPs, request a pre-submittal meeting with the Copermittee to discuss this option. Proceed to Section E to document your alternative compliance measures.

D.4 Feasibility Assessment Summaries

From the Infiltration, Harvest and Use, Bioretention and Biotreatment Sections above, complete Table D.2 below to summarize which LID BMPs are technically feasible, and which are not, based upon the established hierarchy.

		LID BMP Hierarchy						
DMA Name/ID	 Infiltratio n 	2. Harvest and use	3. Bioretention	4. Biotreatment	(Alternative Compliance)			
D/1			\square					
D/2			\square					
D/3								
D/4								
D/5			\square					
D/6								

Table D.2 LID Prioritization Summary Matrix

For those DMAs where LID BMPs are not feasible, provide a brief narrative below summarizing why they are not feasible, include your technical infeasibility criteria in Appendix 5, and proceed to Section E below to document Alternative Compliance measures for those DMAs. Recall that each proposed DMA must pass through the LID BMP hierarchy before alternative compliance measures may be considered.

Insert narrative description here.

D.5 LID BMP Sizing

Each LID BMP must be designed to ensure that the Design Capture Volume will be addressed by the selected BMPs. First, calculate the Design Capture Volume for each LID BMP using the V_{BMP} worksheet in Appendix F of the LID BMP Design Handbook. Second, design the LID BMP to meet the required V_{BMP} using a method approved by the Copermittee. Utilize the worksheets found in the LID BMP Design Handbook or consult with your Copermittee to assist you in correctly sizing your LID BMPs. Complete Table D.3 below to document the Design Capture Volume and the Proposed Volume for each LID BMP. Provide the completed design procedure sheets for each LID BMP in Appendix 6. You may add additional rows to the table below as needed.

DMA Type/ID	DMA Area (square feet) [A]	Post- Project Surface Type	Effective Impervious Fraction, I _f [B]	DMA Runoff Factor	DMA Areas x Runoff Factor [A] x [C]	Enter BN	IP Name / Identifier	Here
D/1	5,490	Roo f	1.00	0.89	4,886.1	Desi gn	Design Capture	Proposed
D/2	2,400	Concrete	1.00	0.89	2,136.0	Storm Donth	Valume, V _{BMP} (cubic feet)	Volume
D/3	4,295	Mixed Surface Types	0.60	0.41	1,761.0	Dep t h (in)		on Plans (cubic feet)
D/4	24,210	Concrete	1.00	0.89	21,546.9			
D/5	17,232	Concrete	1.00	0.89	15,336.5			
D/6	2,480	Mixed Surface Types	0.60	0.41	1,016.8			
	=56,107 Α _T = Σ[Α]		1	J	46,683.3 Σ= [D]	[E] 0.65	$[F] = \frac{[D]x[E]}{12}$ Vbmp = 2,528.7	[G] Vu = 2,960

Table D.3A DCV Calculations for LID BMP 1

[B], [C] is obtained as described in Section 2.3.1 of the WQMP Guidance Document

[E] is obtained from Exhibit A in the WQMP Guidance Document

[G] is obtained from a design procedure sheet, such as in LID BMP Design Handbook and placed in Appendix 6

Section E: Alternative Compliance (LID Waiver Program)

LID BMPs are expected to be feasible on virtually all projects. Where LID BMPs have been demonstrated to be infeasible as documented in Section D, other Treatment Control BMPs must be used (subject to LID waiver approval by the Copermittee). Check one of the following Boxes:

LID Principles and LID BMPs have been incorporated into the site design to fully address all Drainage Management Areas. No alternative compliance measures are required for this project and thus this Section is not required to be completed.

Or -

□ The following Drainage Management Areas are unable to be addressed using LID BMPs. A site-specific analysis demonstrating technical infeasibility of LID BMPs has been approved by the Co-Permittee and included in Appendix 5. Additionally, no downstream regional and/or sub-regional LID BMPs exist or are available for use by the project. The following alternative compliance measures on the following pages are being implemented to ensure that any pollutant loads expected to be discharged by not incorporating LID BMPs, are fully mitigated.

List DMAs here.

E.1 Identify Pollutants of Concern

Utilizing Table A.1 from Section A above which noted your project's receiving waters and their associated EPA approved 303(d) listed impairments, cross reference this information with that of your selected Priority Development Project Category in Table E.1 below. If the identified General Pollutant Categories are the same as those listed for your receiving waters, then these will be your Pollutants of Concern and the appropriate box or boxes will be checked on the last row. The purpose of this is to document compliance and to help you appropriately plan for mitigating your Pollutants of Concern in lieu of implementing LID BMPs.

Project Categories and/or Project Features (check those		General Pollutant Categories								
			Metals	Nutrients	Pesticides	Toxic Organic Compounds	Sediments	Trash & Debris	Oil 8 Grease	
	Detached Residential Development	Р	N	Р	Р	N	Р	P	P	
	Attached Residential Development	Р	N	Р	Р	N	Р	Р	P ⁽²⁾	
	Commercial/Industrial Development	P ⁽³⁾	Р	P ⁽¹⁾	P ⁽¹⁾	P ⁽⁵⁾	P ⁽¹⁾	Р	P	
	Automotive Repair Shops	N	Р	N	N	P ^(4, 5)	N	Р	P	
	Restaurants (>5,000 ft ²)	Р	N	N	N	N	N	Р	Р	
	Hillside Development (>5,000 ft ²)	Р	N	Р	Р	N	Р	Р	P	
	Parking Lots (>5,000 ft ²)	P ⁽⁶⁾	Ρ	P ⁽¹⁾	P ⁽¹⁾	P ⁽⁴⁾	P ⁽¹⁾	Р	P	
	Retail Gasoline Outlets	N	Р	N	N	Р	N	Р	P	
	ect Priority Pollutant(s) oncern									

Table E.1 Potential Pollutants by Land Use Type

P = Potential

N = Not Potential

⁽¹⁾ A potential Pollutant if non-native landscaping exists or is proposed onsite; otherwise not expected

⁽²⁾ A potential Pollutant if the project includes uncovered parking areas; otherwise not expected

⁽³⁾ A potential Pollutant is land use involving animal waste

(4) Specifically petroleum hydrocarbons

⁽⁵⁾ Specifically solvents

(6) Bacterial indicators are routinely detected in pavement runoff

Projects that cannot implement LID BMPs but nevertheless implement smart growth principles are potentially eligible for Stormwater Credits. Utilize Table 3-8 within the WQMP Guidance Document to identify your Project Category and its associated Water Quality Credit. If not applicable, write N/A.

Table E.2 Water Quality C	redits
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E.2 Stormwater Credits

Qualifying Project Categories	Credit Percentage ²
N/A	
 :	
Total Credit Percentage ¹	

¹Cannot Exceed 50%

²Obtain corresponding data from Table 3-8 in the WQMP Guidance Document

E.3 Sizing Criteria

After you appropriately considered Stormwater Credits for your project, utilize Table E.3 below to appropriately size them to the DCV, or Design Flow Rate, as applicable. Please reference Chapter 3.5.2 of the WQMP Guidance Document for further information.

DMA Type/ID	DMA Area (square feet) [A]	Post- Project Surface Type	Effective Impervious Fraction, I _f [B]	DMA Runoff Factor [C]	DMA Area x Runoff Factor [A] x [C]		Enter BMP Name / Identifier Here		
		N/A				Design Storm Depth (in)	Minimum Design Capture Total Storm Volume or Water Design Flow Credit % Rate (cubic Reduction feet or cfs)	on Plans	
	A _T = Σ[A]				Σ= [D]	[E]	$[F] = \frac{[D]x[E]}{[G]} [F] \times (1-[H])$		

[B], [C] is obtained as described in Section 2.3.1 from the WQMP Guidance Document

[E] is obtained from Exhibit A in the WQMP Guidance Document

[G] is for Flow-Based Treatment Control BMPs [G] = 43,560, for Volume-Based Control Treatment BMPs, [G] = 12

[H] is from the Total Credit Percentage as Calculated from Table E.2 above

[I] as obtained from a design procedure sheet from the BMP manufacturer and should be included in Appendix 6

E.4 Treatment Control BMP Selection

Treatment Control BMPs typically provide proprietary treatment mechanisms to treat potential pollutants in runoff, but do not sustain significant biological processes. Treatment Control BMPs must have a removal efficiency of a medium or high effectiveness as quantified below:

- High: equal to or greater than 80% removal efficiency
- Medium: between 40% and 80% removal efficiency

Such removal efficiency documentation (e.g., studies, reports, etc.) as further discussed in Chapter 3.5.2 of the WQMP Guidance Document, must be included in Appendix 6. In addition, ensure that proposed Treatment Control BMPs are properly identified on the WQMP Site Plan in Appendix 1.

Table E.4 Treatment Control BMP Selection

Selected Treatment Control BMP	Priority Pollutant(s) of	Removal Efficiency
Name or ID ¹	Concern to Mitigate ²	Percentage ³
N/A		

¹ Treatment Control BMPs must not be constructed within Receiving Waters. In addition, a proposed Treatment Control BMP may be listed more than once if they possess more than one qualifying pollutant removal efficiency.

² Cross Reference Table E.1 above to populate this column.

³ As documented in a Ca-Permittee Approved Study ond provided in Appendix 6.

Section F: Hydromodification

F.1 Hydrologic Conditions of Concern (HCOC) Analysis

Once you have determined that the LID design is adequate to address water quality requirements, you will need to assess if the proposed LID Design may still create a HCOC. Review Chapters 2 and 3 (including Figure 3-7) of the WQMP Guidance Document to determine if your project must mitigate for Hydromodification impacts. If your project meets one of the following criteria which will be indicated by the check boxes below, you do not need to address Hydromodification at this time. However, if the project does not qualify for Exemptions 1, 2 or 3, then additional measures must be added to the design to comply with HCOC criteria. This is discussed in further detail below in Section F.2.

HCOC EXEMPTION 1: The Priority Development Project disturbs less than one acre. The Copermittee has the discretion to require a Project-Specific WQMP to address HCOCs on projects less than one acre on a case by case basis. The disturbed area calculation should include all disturbances associated with larger common plans of development.

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N

Does the project qualify for this HCOC Exemption?

If Yes, HCOC criteria do not apply.

HCOC EXEMPTION 2: The volume and time of concentration¹ of storm water runoff for the postdevelopment condition is not significantly different from the pre-development condition for a 2-year return frequency storm (a difference of 5% or less is considered insignificant) using one of the following methods to calculate:

- Riverside County Hydrology Manual
- Technical Release 55 (TR-55): Urban Hydrology for Small Watersheds (NRCS 1986), or derivatives thereof, such as the Santa Barbara Urban Hydrograph Method
- Other methods acceptable to the Co-Permittee

Does the project qualify for this HCOC Exemption?

If Yes, report results in Table F.1 below and provide your substantiated hydrologic analysis in Appendix 7.

	2 year - 24 hour					
	Pre-condition Post-condition % Difference					
Time of Concentration	INSERT VALUE	INSERT VALUE	INSERT VALUE			
Volume (Cubic Feet)	INSERT VALUE	INSERT VALUE	INSERT VALUE			

Table F.1 Hydrologic Conditions of Concern Summary

¹ Time of concentration is defined as the time after the beginning of the rainfall when all portions of the drainage basin are contributing to flow at the outlet.

HCOC EXEMPTION 3: All downstream conveyance channels to an adequate sump (for example, Prado Dam, Lake Elsinore, Canyon Lake, Santa Ana River, or other lake, reservoir or naturally erosion resistant feature) that will receive runoff from the project are engineered and regularly maintained to ensure design flow capacity; no sensitive stream habitat areas will be adversely affected; or are not identified on the Co-Permittees Hydromodification Sensitivity Maps.

Does the project qualify for this HCOC Exemption?

If Yes, HCOC criteria do not apply and note below which adequate sump applies to this HCOC qualifier:

N

F.2 HCOC Mitigation

If none of the above HCOC Exemption Criteria are applicable, HCOC criteria is considered mitigated if they meet one of the following conditions:

- a. Additional LID BMPS are implemented onsite or offsite to mitigate potential erosion or habitat impacts as a result of HCOCs. This can be conducted by an evaluation of site-specific conditions utilizing accepted professional methodologies published by entities such as the California Stormwater Quality Association (CASQA), the Southern California Coastal Water Research Project (SCCRWP), or other Co-Permittee approved methodologies for site-specific HCOC analysis.
- b. The project is developed consistent with an approved Watershed Action Plan that addresses HCOC in Receiving Waters.
- c. Mimicking the pre-development hydrograph with the post-development hydrograph, for a 2year return frequency storm. Generally, the hydrologic conditions of concern are not significant, if the post-development hydrograph is no more than 10% greater than pre-development hydrograph. In cases where excess volume cannot be infiltrated or captured and reused, discharge from the site must be limited to a flow rate no greater than 110% of the predevelopment 2-year peak flow.

Be sure to include all pertinent documentation used in your analysis of the items a, b or c in Appendix 7.

HCOC criteria is mitigated by analyzing the pre-development and post-development hydrographs for a 2year return frequency storm and limiting the post-development site stormwater discharge to a flow rate not more than 110% of the pre-development 2-year peak flow. Hence, HCOC criteria is satisfied by meeting the condition (c) above by limiting post-development discharge to maximum 110% of predevelopment discharge for Q-2year peak flow.

2.m

Section G: Source Control BMPs

Source control BMPs include permanent, structural features that may be required in your project plans — such as roofs over and berms around trash and recycling areas — and Operational BMPs, such as regular sweeping and "housekeeping", that must be implemented by the site's occupant or user. The MEP standard typically requires both types of BMPs. In general, Operational BMPs cannot be substituted for a feasible and effective permanent BMP. Using the Pollutant Sources/Source Control Checklist in Appendix 8, review the following procedure to specify Source Control BMPs for your site:

- 1. *Identify Pollutant Sources:* Review Column 1 in the Pollutant Sources/Source Control Checklist. Check off the potential sources of Pollutants that apply to your site.
- 2. Note Locations on Project-Specific WQMP Exhibit: Note the corresponding requirements listed in Column 2 of the Pollutant Sources/Source Control Checklist. Show the location of each Pollutant source and each permanent Source Control BMP in your Project-Specific WQMP Exhibit located in Appendix 1.
- 3. Prepare a Table and Narrative: Check off the corresponding requirements listed in Column 3 in the Pollutant Sources/Source Control Checklist. In the left column of Table G.1 below, list each potential source of runoff Pollutants on your site (from those that you checked in the Pollutant Sources/Source Control Checklist). In the middle column, list the corresponding permanent, Structural Source Control BMPs (from Columns 2 and 3 of the Pollutant Sources/Source Control Checklist) used to prevent Pollutants from entering runoff. Add additional narrative in this column that explains any special features, materials or methods of construction that will be used to implement these permanent, Structural Source Control BMPs.
- 4. Identify Operational Source Control BMPs: To complete your table, refer once again to the Pollutant Sources/Source Control Checklist. List in the right column of your table the Operational BMPs that should be implemented as long as the anticipated activities continue at the site. Copermittee stormwater ordinances require that applicable Source Control BMPs be implemented; the same BMPs may also be required as a condition of a use permit or other revocable Discretionary Approval for use of the site.

Potential Sources of Runoff pollutants	Permanent Structural Source Control BMPs	Operational Source Control BMPs

Table G.1 Permanent and Operational Source Control Measures

- 24 -

Section H: Construction Plan Checklist

Populate Table H.1 below to assist the plan checker in an expeditious review of your project. The first two columns will contain information that was prepared in previous steps, while the last column will be populated with the corresponding plan sheets. This table is to be completed with the submittal of your final Project-Specific WQMP.

BMP No. or ID	BMP Identifier and Description	Corresponding Plan Sheet(s)
BMP 1	Bio-Filtration Basin	C-3 and C-4

Table H.1 Construction Plan Cross-reference

Note that the updated table — or Construction Plan WQMP Checklist — is **only** a **reference tool** to facilitate an easy comparison of the construction plans to your Project-Specific WQMP. Co-Permittee staff can advise you regarding the process required to propose changes to the approved Project-Specific WQMP.

Attachment: P-WQMP [Revision 2] (2913 : PEN16-0113 Plot Plan)

Section I: Operation, Maintenance and Funding

The Copermittee will periodically verify that Stormwater BMPs on your site are maintained and continue to operate as designed. To make this possible, your Copermittee will require that you include in Appendix 9 of this Project-Specific WQMP:

- 1. A means to finance and implement facility maintenance in perpetuity, including replacement cost.
- 2. Acceptance of responsibility for maintenance from the time the BMPs are constructed until responsibility for operation and maintenance is legally transferred. A warranty covering a period following construction may also be required.
- 3. An outline of general maintenance requirements for the Stormwater BMPs you have selected.
- 4. Figures delineating and designating pervious and impervious areas, location, and type of Stormwater BMP, and tables of pervious and impervious areas served by each facility. Geolocating the BMPs using a coordinate system of latitude and longitude is recommended to help facilitate a future statewide database system.
- 5. A separate list and location of self-retaining areas or areas addressed by LID Principles that do not require specialized O&M or inspections but will require typical landscape maintenance as noted in Chapter 5, pages 85-86, in the WQMP Guidance. Include a brief description of typical landscape maintenance for these areas.

Your local Co-Permittee will also require that you prepare and submit a detailed Stormwater BMP Operation and Maintenance Plan that sets forth a maintenance schedule for each of the Stormwater BMPs built on your site. An agreement assigning responsibility for maintenance and providing for inspections and certification may also be required.

Details of these requirements and instructions for preparing a Stormwater BMP Operation and Maintenance Plan are in Chapter 5 of the WQMP Guidance Document.

Maintenance Mechanism:

Will the proposed BMPs be maintained by a Home Owners' Association (HOA) or Property Owners Association (POA)?



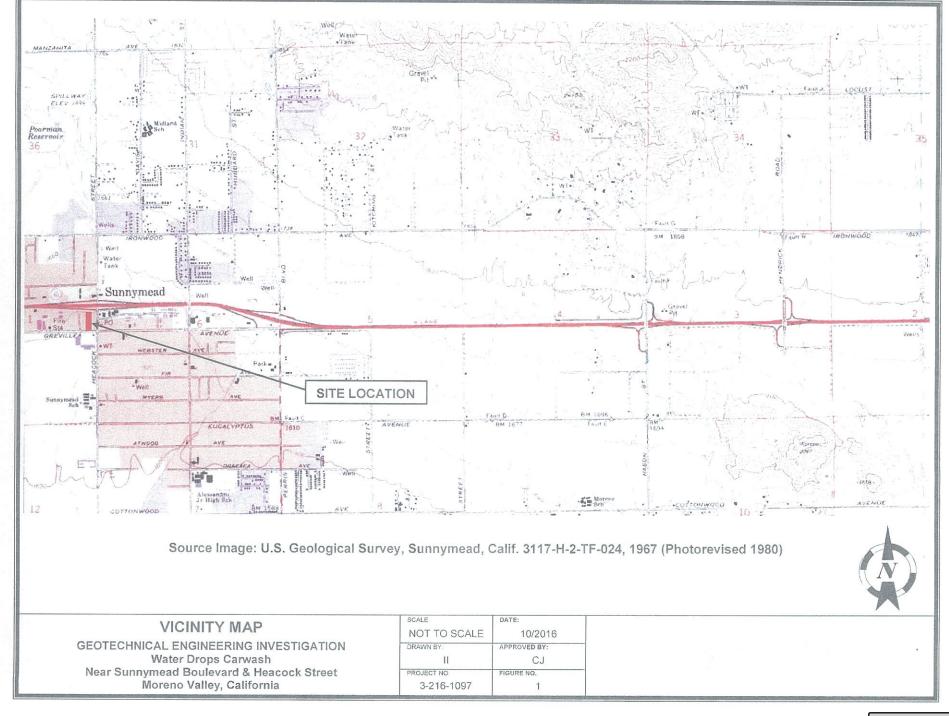
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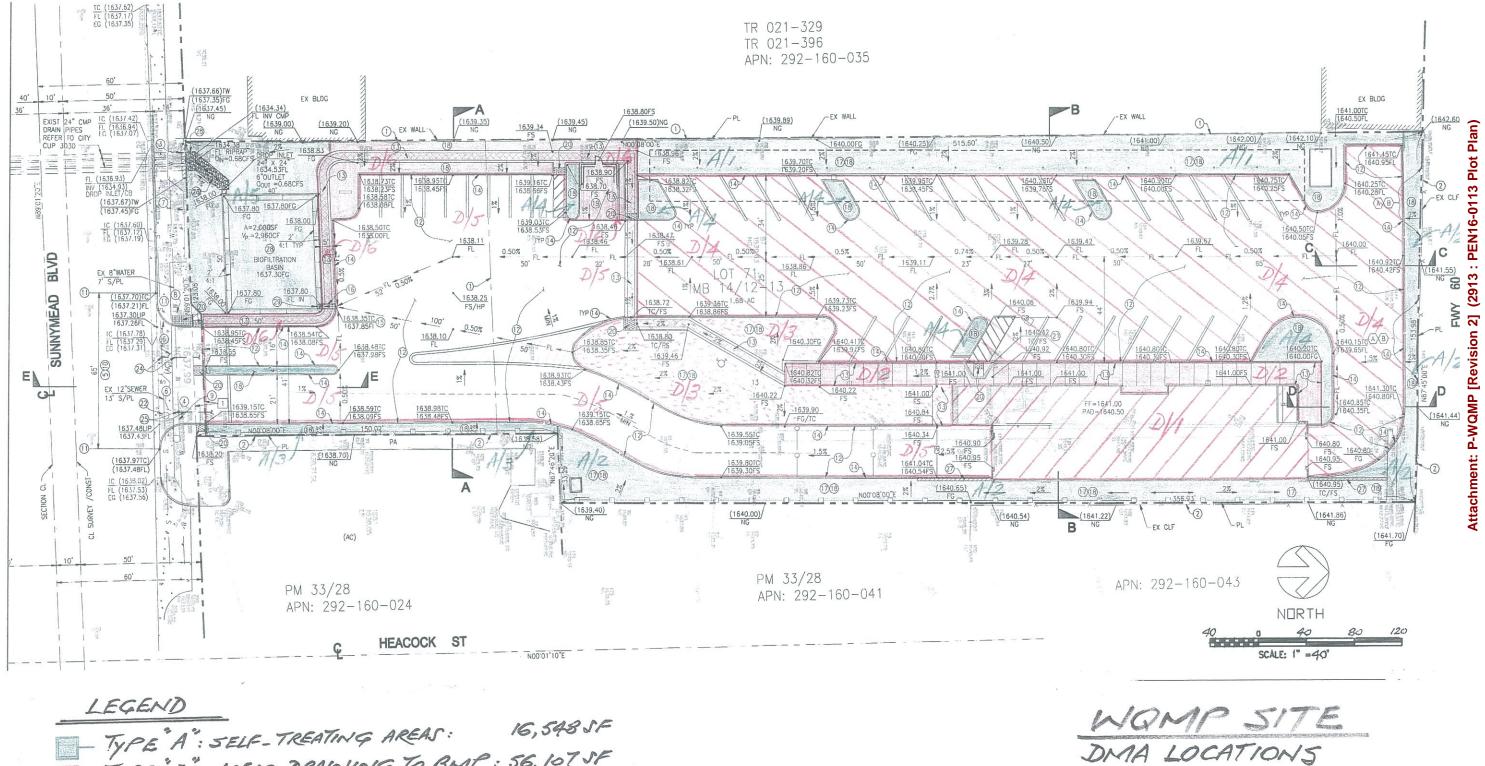
Property owner SH-60 at Heacock Street, LLC/Mr. Eric Bronk will be maintaining the proposed BMPs. Business revenues will be allocated to fund the ongoing maintenance and repairs of proposed BMP.

Include your Operation and Maintenance Plan and Maintenance Mechanism in Appendix 9. Additionally, include all pertinent forms of educational materials for those personnel that will be maintaining the proposed BMPs within this Project-Specific WQMP in Appendix 10.

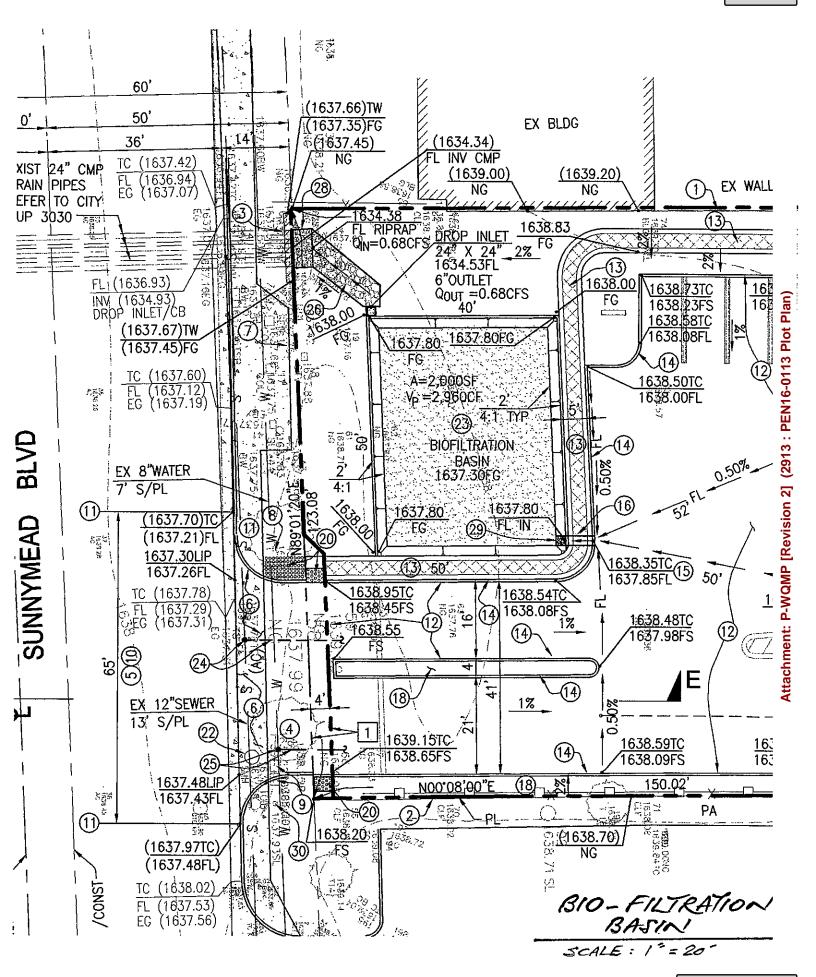
Appendix 1: Maps and Site Plans

Location Map, WQMP Site Plan and Receiving Woters Map

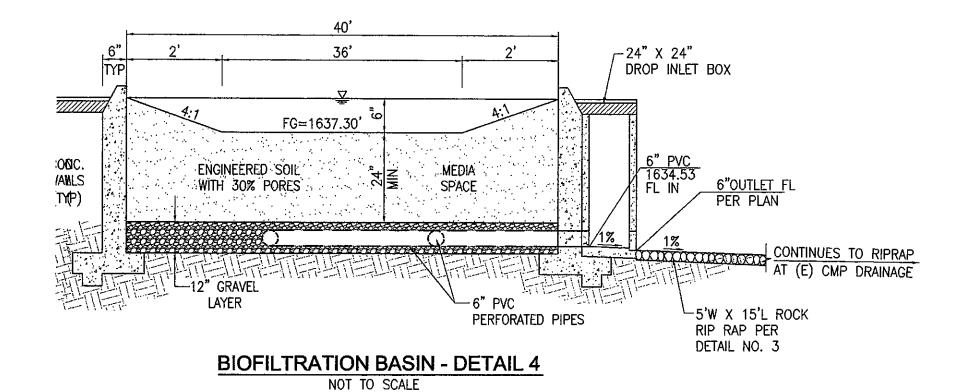


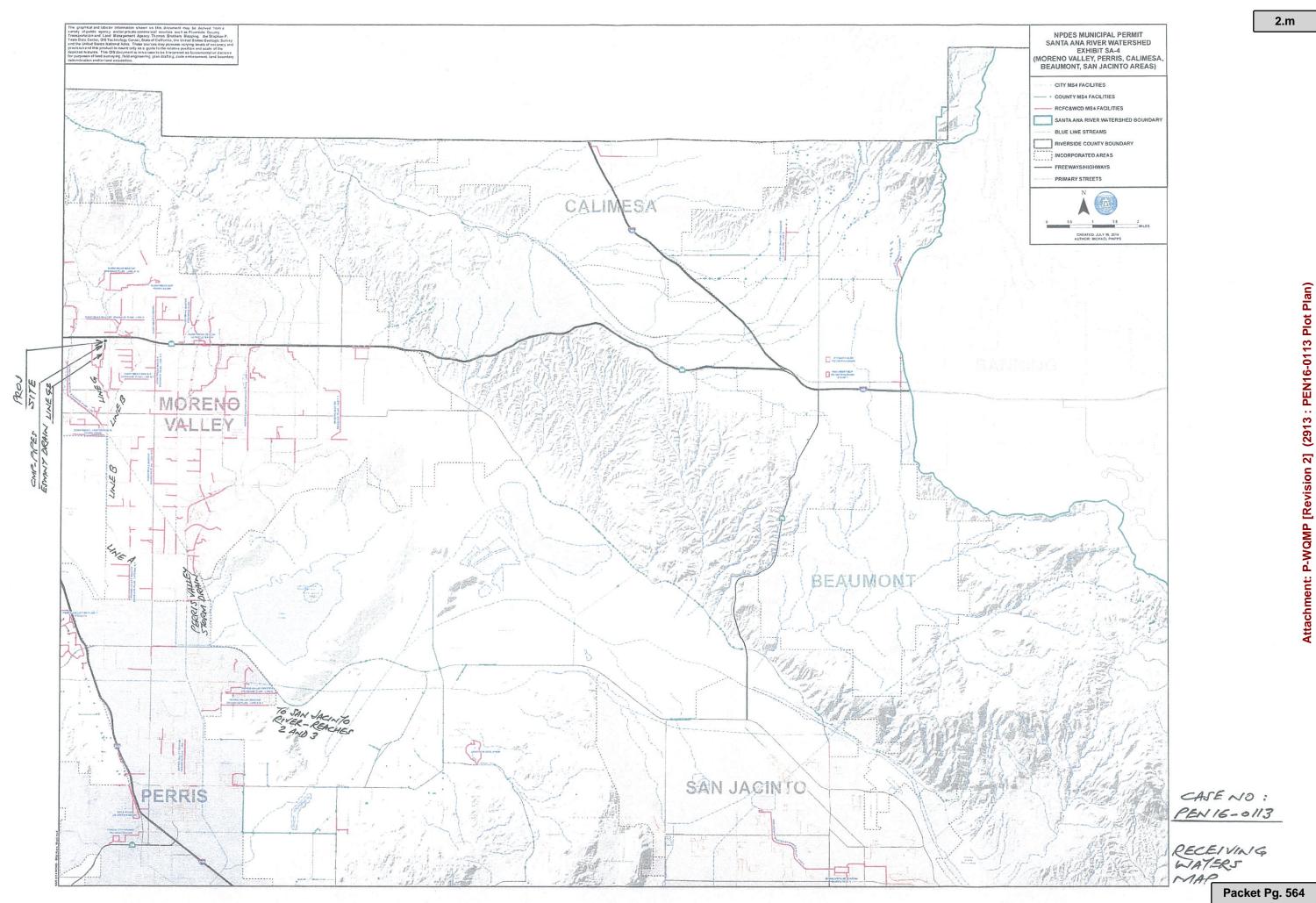


- TYPE A": SELF-TREATING AREAS: 16,548 SF - TYPE D": AREAS DRAINING TO BMP: 56, 107 SF



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Appendix 2: Construction Plans

Grading and Drainage Plans

2.m

STANDARD GRADING NOTES

- ALL WORK SHALL CONFORM TO THE CITY OF MORENO VALLEY GRADING REGULATIONS, THE ADOPTED CALIFORNIA BUILDING CODE, AND THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES OR STRUCTURES ABOVE OR BELOW GROUND, SHOWN OR NOT SHOWN ON THESE PLANS, THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGE TO ANY UTILITIES OR STRUCTURES CAUSED BY HIS/HER OPERATION.
- 3. ADJACENT STREETS ARE TO BE CLEANED DALLY OF ALL DIRT AND DEBRIS THAT ARE THE RESULT OF OPERATION.
- 4. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS.
- 5. HOURS OF OPERATION ARE 7 AM 5 PM MONDAY-FRIDAY SATURDAYS, BY PRIOR APPOINTMENT ONLY, 7:00 AM-3:00 PM (INDUSTRUL/COMMERCUL), 8:00 AM-4:00 PM (RESIDENTIAL), NO WORK ON SUNDAY OR PUBLIC HOUDAYS WITHOUT PRIOR CITY APPROVAL.
- THE CITY PUBLIC WORKS DEPARTMENT SHALL BE CONTACTED AT (951) 413-3120 TO SCHEDULE A PRE-GRADING MEETING 48 HOURS PRIOR TO BEGINNING OF GRADING.
- ALL GRADING SHALL BE COMPLETED UNDER THE SUPERVISION OF A REGISTERED SOILS ENGINEER OF RECORD IN CONFORMANCE WITH RECOMMENDATIONS OF THE PRELIMINARY SOILS INVESTIGATION BY <u>SHEDI ENGINEERING GROUP</u> DATED <u>OCT. 24, 2016</u>. 7.
- 8. TWO SETS OF THE FINAL SOILS REPORT SHALL BE SUBMITTED TO THE ENGINEERING DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO ISSUNACE OF A BUILDING PERMIT. THE SOILS REPORT SHALL REFLECT THE FACT THAT THE COMPACTION HAS BEEN OBTINNED NOT ONLY IN THE BUILDING PAD LOCATIONS, BUT IN THE REMANDED OF THE STE, INCLUDING THE SLOPES, FINAL SOLS GRADING CERTIFICATION SHALL BE SUBMITTED BY THE SOLS ENGINEER OF RECORD THAT THE FINAL GRADING CONFORMS TO APPENDX J OF THE CALIFORNIA BUILDING THE OF ADDRIVE ADDRIVE CONFORMS TO APPENDX J OF THE CALIFORNIA BUILDING THE CONTINUE ADDRIVE CONFORMS TO APPENDX J OF THE CALIFORNIA BUILDING THE CONTINUE ADDRIVE CONFORMS TO APPENDX J OF THE CALIFORNIA BUILDING THE CONTINUE ADDRIVE CONFORMS TO APPENDX J OF THE CALIFORNIA BUILDING THE CONTINUE ADDRIVE CONFORMS TO APPENDX J OF THE CALIFORNIA BUILDING THE CONTINUE ADDRIVE CONFORMS TO APPENDX J OF THE CALIFORNIA BUILDING THE CONTINUE ADDRIVES OF CONFORMS TO APPENDX J OF THE CALIFORNIA BUILDING THE CONTINUE ADDRIVES OF CONFORMS TO APPENDX J OF THE CALIFORNIA BUILDING THE CONTINUE ADDRIVES OF CONFORMS TO APPEND J OF THE CALIFORNIA BUILDING THE CALIFORNIA DURING CONTINUE ADDRIVES TO APPEND J OF THE CALIFORNIA BUILDING THE CALIFORNIA DURING CONTINUE ADDRIVES OF APPEND J OF THE CALIFORNIA BUILDING THE CALIFORNIA DURING CONTINUE ADDRIVES ADDR CODE (COC) AND THE APPROVED GRADING PLAN.
- All SLOPES SHALL BE A MAXIMUM OF 2:1, CUT OR FILL, UNLESS OTHERWISE RECOMMENDED BY REGISTERED SOLS ENGINEER AND APPROVED BY THE CITY ENGINEER.
- 10, ALL PADS AND SWALES SHALL SLOPE A MIMMUM OF 1% TO STREETS OR DRIVES.
- 11. ALL TRENCH BACKFILLS SHALL BE TESTED AND CERTIFIED BY THE SOLS ENGNEER OF RECORD TO NOT LESS THAN 90% MAXIMUM ODNSTY AS DETERMINED BY AS.T.M. SOL COMPACTION TEST D1557. THE TOP 1.5 FT. OF SUBGRADE BELOW THE STREET PAVEMENT STRUCTURAL SECTION SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
- 12. SEPARATE PERMITS SHALL BE REQUIRED FOR ANY IMPROVEMENT WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- 13. CUT SLOPES GREATER THAN 5 FEET IN VERTICAL HEICHT, AND FILL SLOPES GREATER THAN 3 FEET IN VERTICAL HEIGHT SHALL BE PLANTED WITH APPROVED CROUND COVER OR OTHER APPROVED SLOPE EROSION CONTROL METHOD TO PROTECT THE SLOPE FROM EROSION AND INSTRABILITY IN ACCORDANCE WITH THE GRADING REGULATIONS.
- 14. SEPARATE PERMITS FROM THE BUILDING DEPARTMENT SHALL BE REQUIRED FOR ALL WALLS AND FENCES
- ALL SLOPES AQUACENT TO THE PUBLIC RIGHT-OF-WAY SHALL BE SET BACK 2 FEET IF HEIGHT IS LESS THAN 10 FEET, AND 3 FEET IF HEIGHT IS GREATER THAN 10 FEET.
- 16. DAMAGED OR ALTERED PUBLIC IMPROVEMENTS SHALL BE REPAIRED OR REPLACED AS REQUIRED
- AN "AS-BUILT" GRADING PLAN SHALL BE SUBMITTED AT THE COMPLETION OF WORK, AND PRIOR TO THE ISSUANCE OF THE OCCUPANCY PERMIT.
- 18. CERTIFICATION BY THE RCE OF RECORD THAT THE ROUGH GRADING SOIL COMPACTION HAS BEEN COMPLETED PER TELLS 7, 8 AND 11 AND THE SITE CONFORMS TO THIS PLAN AS TO LINE AND GRADE SHALL & REDURING PRIOR TO ISSUANCE OF BUILDING PERMIT.
- 19. THE RCE OF RECORD SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE OSSICH HERGON. IN THE EVENT OF DISCREPANCIES ARSING OURING CONSTRUCTION, THE R.C.E. OF RECORD SHALL BE RESPONSIBLE FOR OPTERMINE AN ACCEPTABLE SOLUTION AND REMISING THE PLANS FOR APPROVAL BY THE CITY ENGNEER.
- 20. ALL IMPORTED SOIL SHALL HAVE A CERTIFICATE GIVEN TO THE CITY ENGINEER STATING THAT THE SOIL IS FREE FROM CONTAMINANTS BEFORE SOIL IS UNLOADED.

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	1-10-2017
JAVAD H. ASLAN	DITE

R.C.E. 432779 EXPIRES 06.30.2018

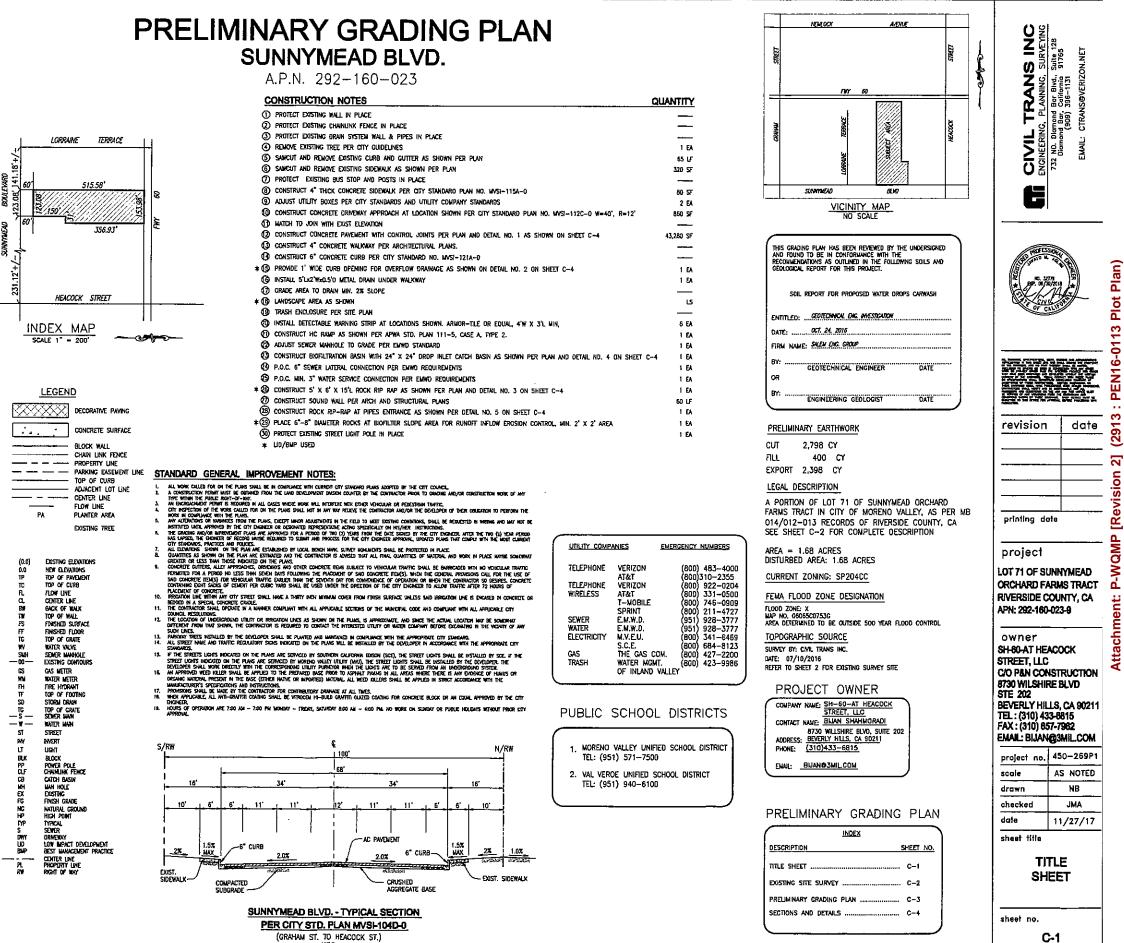
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ENGINEER'S NOTICE TO CONTRACTORS

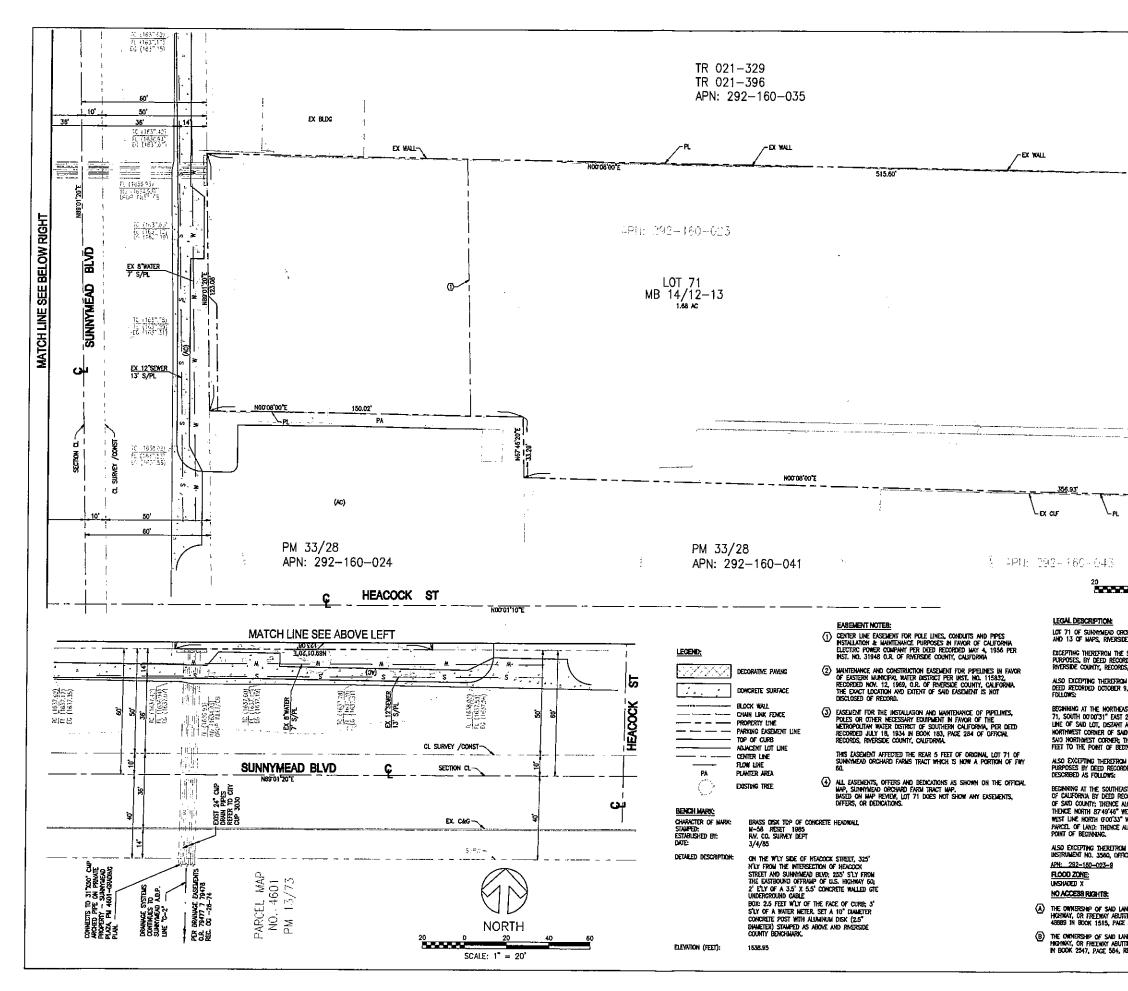
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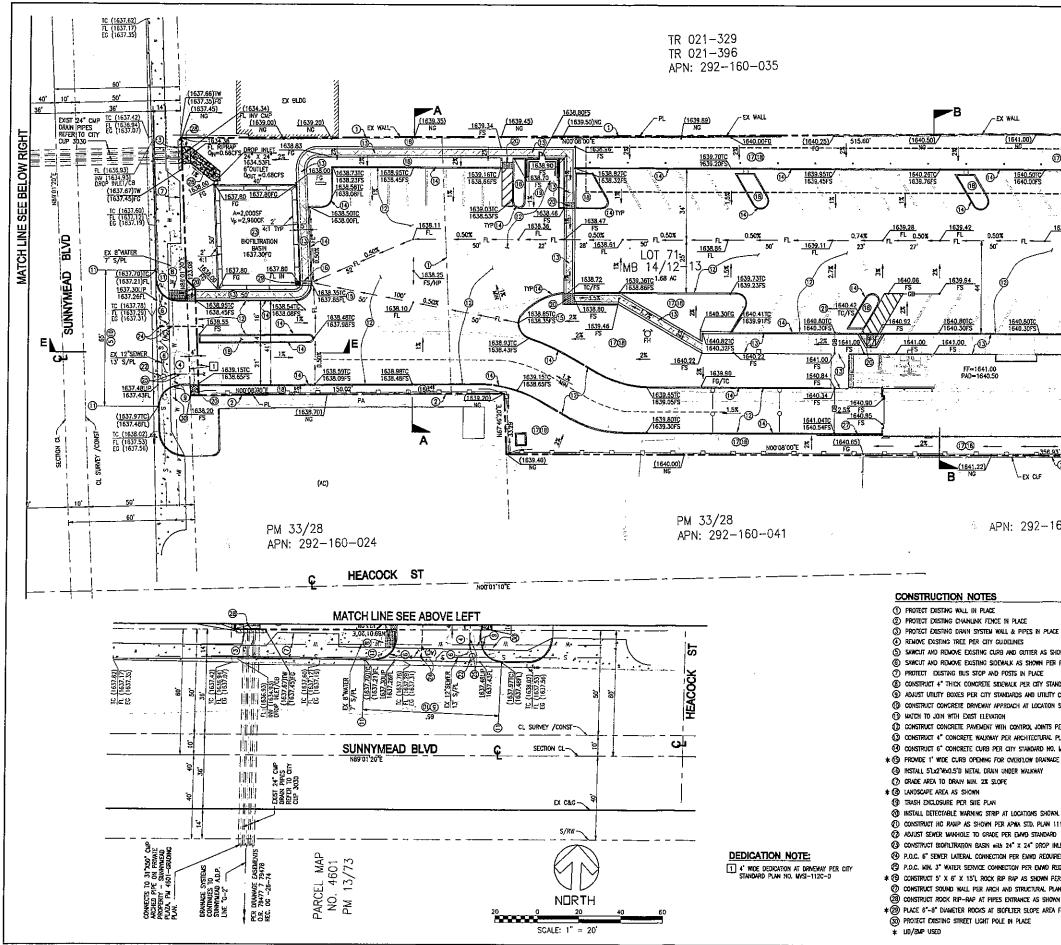
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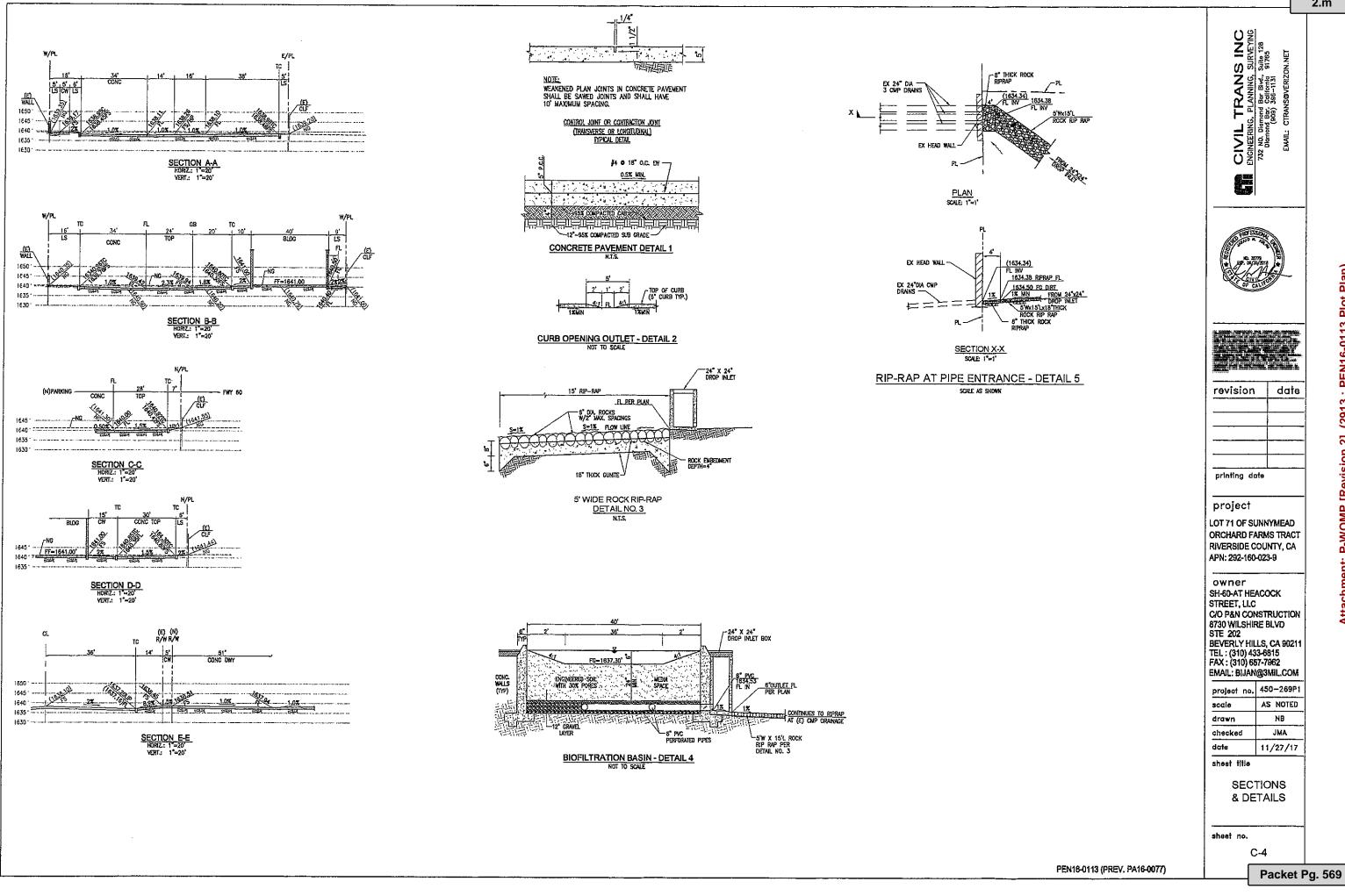
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Appendix 3: Soils Information

Geotechnical Study and Other Infiltration Testing Data



11650 Mission Park Drive, Suite 108 Rancho Cucamonga, CA 91730 Phone (909) 980-6455 Fax (909) 980-6435

GEOTECHNICAL ENGINEERING INVESTIGATION PROPOSED WATER DROPS CARWASH NEAR SUNNYMEAD BOULEVARD & HEACOCK STREET APN 292-160-023 MORENO VALLEY, CALIFORNIA

1. PURPOSE AND SCOPE

This report presents the results of our Geotechnical Engineering Investigation for the Proposed Water Drops Carwash to be located near the intersection of Sunnymead Boulevard and Heacock Street in Moreno Valley, California (see Figure 1, Vicinity Map).

The purpose of our geotechnical engineering investigation was to observe and sample the subsurface conditions encountered at the site, and provide conclusions and recommendations relative to the geotechnical aspects of constructing the project as presently proposed.

The scope of this investigation included a field exploration, laboratory testing, engineering analysis and the preparation of this report. Our field exploration was performed on October 10, 2016 and included the drilling of five (5) small-diameter soil borings to a maximum depth of 36 feet at the site. Additionally, two (2) percolation tests were performed on October 11, 2016 at depths of approximately 10 to 20 feet below existing grade for determination of the percolation rate. The locations of the soil borings and percolation tests are depicted on Figure 2, Site Plan. A detailed discussion of our field investigation, exploratory boring logs and percolation test results are presented in Appendix A.

Laboratory tests were performed on selected soil samples obtained during the investigation to evaluate pertinent physical properties for engineering analyses. Appendix B presents the laboratory test results in tabular and graphic format.

The recommendations presented herein are based on analysis of the data obtained during the investigation and our experience with similar soil and geologic conditions.

If project details vary significantly from those described herein, SALEM should be contacted to determine the necessity for review and possible revision of this report. Earthwork and Pavement Specifications are presented in Appendix C. If text of the report conflict with the specifications in Appendix C, the recommendations in the text of the report have precedence.

2. PROJECT DESCRIPTION

Based on information provided to us, we understand that the proposed development of the site will include construction of a carwash facility on a vacant undeveloped land. The facility will include a carwash tunnel building, a vacuum canopy, automated cashier pay stations, and a trash enclosure. On-



site parking and landscaping are planned to be associated with the development. Maximum wall load is expected to be on the order of 2.5 kips per linear foot. Maximum column load is expected to be on the order of 50 kips. Floor slab soil bearing pressure is expected to be on the order of 150 psf.

Concrete and asphaltic concrete pavement for parking area, customers travel lanes, and truck lane are to be designed for standard duty and heavy-duty traffic loading based on an Equivalent Single Axle Load (ESAL) of 18 kips, a maximum load of 60,000 ESAL and a design life of 20 years. The pavement design recommendations provided herein are based on the State of California Department (CALTRANS) design manual.

A site grading plan was not available at the time of preparation of this proposal. As the existing project area is essentially level, we anticipate that cuts and fills during the earthwork will be minimal and limited to providing a level building pad and positive site drainage. In the event that changes occur in the nature or design of the project, the conclusions and recommendations contained in this report will not be considered valid unless the changes are reviewed and the conclusions of our report are modified. The site configuration and locations of proposed improvements are shown on the Site Plan, Figure 1.

3. SITE LOCATION AND DESCRIPTION

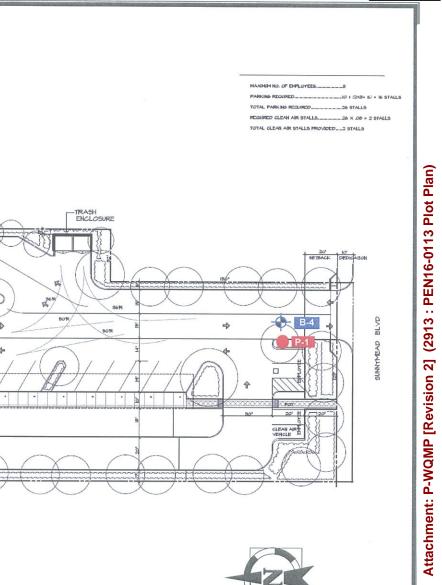
The site is rectangular in shape and encompasses approximately 1.68 acres. The subject site is located near the intersection of Sunnymead Boulevard and Heacock Street in the City of Moreno Valley, California (see Vicinity Map, Figure 1). The site is currently vacant with sparse vegetation and debris. The site is predominantly surrounded by commercial and residential developments. The site is relatively flat with no major changes in grade. The average elevation of the site is approximately 1,644 feet above mean sea level (AMSL), based on Google Earth Imagery.

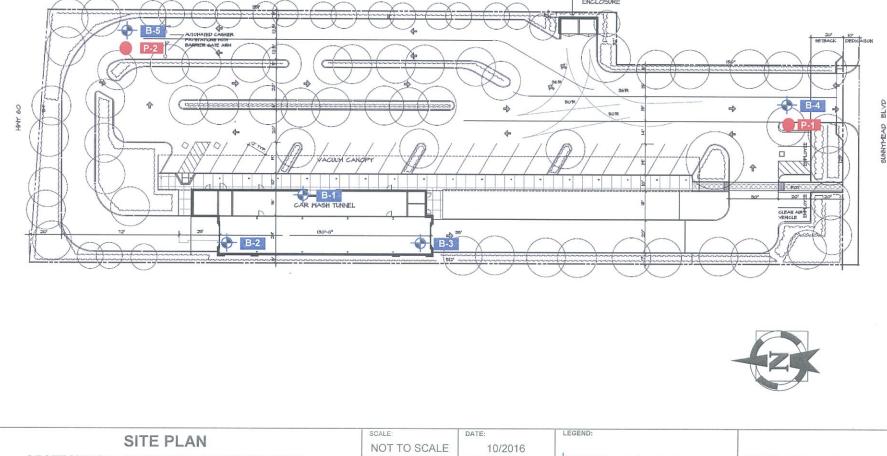
4. FIELD EXPLORATION

Our field exploration consisted of site surface reconnaissance and subsurface exploration. The exploratory test borings (B-1 through B-5) were drilled on October 10, 2016 in the area shown on the Site Plan, Figure 2. The test borings were advanced with an 8-inch diameter hollow stem auger and a 4-inch diameter solid-flight auger rotated by a truck-mounted CME-45C drill rig. The test borings were advanced to a maximum depth of 36 feet below existing grade. Drilling was limited due to auger refusal on the dense soil.

The materials encountered in the test borings were visually classified in the field, and logs were recorded by a field engineer and stratification lines were approximated on the basis of observations made at the time of drilling. Visual classification of the materials encountered in the test borings were generally made in accordance with the Unified Soil Classification System (ASTM D2487). A soil classification chart and key to sampling is presented on the Unified Soil Classification Chart, in Appendix "A." The logs of the test borings are presented in Appendix "A." The Boring Logs include the soil type, color, moisture content, dry density, and the applicable Unified Soil Classification System symbol. The location of the test borings were determined by measuring from features shown on the Site Plan, provided to us. Hence, accuracy can be implied only to the degree that this method warrants. The actual boundaries between different soil types may be gradual and soil conditions may vary. For a more detailed description of the materials encountered, the Boring Logs in Appendix "A" should be consulted.







GEOTECHNICAL ENGINEERING INVESTIGAT	ION
Water Drops Carwash	
Near Sunnymead Boulevard & Heacock Stre	et
Moreno Valley, California	

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Soil samples were obtained from the test borings at the depths shown on the logs of borings. The MCS samples were recovered and capped at both ends to preserve the samples at their natural moisture content; SPT samples were recovered and placed in a sealed bag to preserve their natural moisture content. The borings were backfilled with soil cuttings after completion of the drilling.

5. LABORATORY TESTING

Laboratory tests were performed on selected soil samples to evaluate their physical characteristics and engineering properties. The laboratory-testing program was formulated with emphasis on the evaluation of natural moisture, density, shear strength, consolidation potential, expansion index, maximum density and optimum moisture determination, and gradation of the materials encountered.

In addition, chemical tests were performed to evaluate the corrosivity of the soils to buried concrete and metal. Details of the laboratory test program and the results of laboratory test are summarized in Appendix "B." This information, along with the field observations, was used to prepare the final boring logs in Appendix "A."

6. **GEOLOGIC SETTING**

The subject site is located within the Peninsular Range Geomorphic Province, an area characterized by active northeast trending strike slip faults, including the San Jacinto to the northwest, and the Elsinore to the southwest. The project site is situated between the Santa Rosa Mountains and the San Jacinto Mountains to the east; and Santa Ana Mountains to the west and south. The near-surface deposits in the vicinity of the subject site are comprised of recent alluvium consisting of unconsolidated sands, silt, and clays derived from erosion of local mountain ranges. Deposits encountered on the subject site during exploratory drilling are discussed in detail in this report.

7. GEOLOGIC HAZARDS

7.1 Faulting and Seismicity

The Peninsular Range has historically been a province of relatively high seismic activity. The nearest faults to the project site are associated with the San Jacinto Fault system located approximately 4.2 miles from the site. There are no known active fault traces in the project vicinity. Based on mapping and historical seismicity, the seismicity of the Peninsular Range has been generally considered high by the scientific community.

The project area is not within an Alquist-Priolo Earthquake Fault (Special Studies) Zone and will not require a special site investigation by an Engineering Geologist. Soils on site are classified as Site Class D in accordance with Chapter 16 of the California Building Code. The proposed structures are determined to be in Seismic Design Category D.

To determine the distance of known active faults within 100 miles of the site, we used the United States Geological Survey (USGS) web-based application 2008 National Seismic Hazard Maps - Fault Parameters. Site latitude is 33.9402° North; site longitude is -117.2450° West. The ten closest active faults are summarized below in Table 7.1.



Fault Name	Distance to Site (miles)	Maximum Earthquake Magnitude, M _w		
San Jacinto; SBV+SJV+A+CC+B+SM	4.2	7.9		
San Jacinto; SBV	5.3	7.1		
San Jacinto; A+CC+B+SM	8.5	7.6		
S. San Andreas; PK+CH+CC+BB+NM+SM+NSB+SSB+BG+CO	13.7	8.2		
S. San Andreas; PK+CH+CC+BB+NM+SM+NSB	14.5	8.0		
Elsinore; W+GI+T+J+CM	18.4	7.8		
Cucamonga	20.1	6.7		
Chino, alt 2	20.1	6.8		
Elsinore; T+J+CM	20.5	7.6		

TABLE 7.1REGIONAL FAULT SUMMARY

The faults tabulated above and numerous other faults in the region are sources of potential ground motion. However, earthquakes that might occur on other faults throughout California are also potential generators of significant ground motion and could subject the site to intense ground shaking.

7.2 Surface Fault Rupture

The site is not within a currently established State of California Earthquake Fault Zone for surface fault rupture hazards. No active faults with the potential for surface fault rupture are known to pass directly beneath the site. Therefore, the potential for surface rupture due to faulting occurring beneath the site during the design life of the proposed development is considered low.

7.3 Ground Shaking

We used the USGS web-based application US Seismic Design Maps to estimate the peak ground acceleration adjusted for site class effects (PGA_M). Because of the proximity to the subject site and the maximum probable events for these faults, it appears that a maximum probable event along the fault zones could produce a peak horizontal acceleration of approximately 0.647g (2% probability of being exceeded in 50 years). While listing PGA is useful for comparison of potential effects of fault activity in a region, other considerations are important in seismic design, including frequency and duration of motion and soil conditions underlying the site.

7.4 Liquefaction

Soil liquefaction is a state of soil particles suspension caused by a complete loss of strength when the effective stress drops to zero. Liquefaction normally occurs under saturated conditions in soils such as sand in which the strength is purely frictional. Primary factors that trigger liquefaction are: moderate to strong ground shaking (seismic source), relatively clean, loose granular soils (primarily poorly graded sands and silty sands), and saturated soil conditions (shallow groundwater). Due to the increasing overburden pressure with depth, liquefaction of granular soils is generally limited to the upper 50 feet of a soil profile. However, liquefaction has occurred in soils other than clean sand.

The soils encountered within the depth of 50 feet on the project site consisted predominately of silty sand with varying amounts of clay, silty sand/sandy silt with trace clay, and sandy silt with varying



2.m

amounts of clay. The depth of groundwater within the vicinity of the site is estimated to be at a depth of approximately between 70 to 90 feet below ground surface according to the State Water Resources Control Board Geotracker website (<u>http://geotracker.waterboards.ca.gov</u>) records of Fastrip #13 (T0606500482) leaking underground storage tank (LUST) site, located at 23991 Sunnymead Boulevard, which is located approximately 150 south of subject site, and on the south side of Sunnymead Boulevard. The Riverside County Office of Information Technology GIS website: <u>http://mmc.rivcoit.org/MMC_Public/ Viewer.html?Viewer=MMC_Public</u> does not show the subject site to be in a high or moderate liquefaction potential area.

Low to very low cohesion strength is commonly associated with the sandy soil profile at the site. A seismic hazard, which could cause damage to the proposed development during seismic shaking, is the post-liquefaction settlement of liquefied sands. The site was evaluated for liquefaction potential. The liquefaction analysis indicated that the soils had a low potential for liquefaction under seismic conditions, therefore no mitigation measures are warranted.

7.5 Lateral Spreading

Lateral spreading is a phenomenon in which soils move laterally during seismic shaking and is often associated with liquefaction. The amount of movement depends on the soil strength, duration and intensity of seismic shaking, topography, and free face geometry. Due to the relatively flat site topography and low liquefaction potential, we judge the likelihood of lateral spreading to be low.

7.6 Landslides

There are no known landslides at the site, nor is the site in the path of any known or potential landslides. We do not consider the potential for a landslide to be a hazard to this project.

7.7 Tsunamis and Seiches

The site is not located within a coastal area. Therefore, tsunamis (seismic sea waves) are not considered a significant hazard at the site. Seiches are large waves generated in enclosed bodies of water in response to ground shaking. No major water-retaining structures are located immediately up gradient from the project site. Flooding from a seismically-induced seiche is considered unlikely.

8. SOIL AND GROUNDWATER CONDITIONS

8.1 Subsurface Conditions

The subsurface conditions encountered appear typical of those found in the geologic region of the site. In general, the soils within the depth of exploration consisted of alluvium deposits of medium dense to very dense silty sand with varying amounts of clay, medium dense to very dense silty sand/sandy silt with trace clay, and stiff to hard sandy silt.

Fill materials may be present onsite beyond our boring location. Undocumented fill materials are not suitable to support any future structures and should be replaced with Engineered Fill. The extent and consistency of the fills should be verified during site construction. Prior to fill placement, Salem Engineering Group, Inc. should inspect the bottom of the excavation to verify the fill condition.



The soils were classified in the field during the drilling and sampling operations. The stratification lines were approximated by the field engineer on the basis of observations made at the time of drilling. The actual boundaries between different soil types may be gradual and soil conditions may vary. For a more detailed description of the materials encountered, the Boring Logs in Appendix "A" should be consulted. The Boring Logs include the soil type, color, moisture content, dry density, and the applicable Unified Soil Classification System symbol. The locations of the test borings were determined by measuring from feature shown on the Site Plan, provided to us. Hence, accuracy can be implied only to the degree that this method warrants.

8.2 Groundwater

The test boring locations were checked for the presence of groundwater during and after the drilling operations. Free groundwater was not encountered during this investigation. The depth of groundwater within the vicinity of the site is estimated to be at a depth of approximately between 70 to 90 feet below ground surface according to the State Water Resources Control Board Geotracker website (<u>http://geotracker.waterboards.ca.gov</u>) records of Fastrip #13 (T0606500482) leaking underground storage tank (LUST) site, located at 23991 Sunnymead Boulevard, which is located approximately 150 south of the subject site.

It should be recognized that water table elevations may fluctuate with time, being dependent upon seasonal precipitation, irrigation, land use, localized pumping, and climatic conditions as well as other factors. Therefore, water level observations at the time of the field investigation may vary from those encountered during the construction phase of the project. The evaluation of such factors is beyond the scope of this report.

8.3 Soil Corrosion Screening

Excessive sulfate in either the soil or native water may result in an adverse reaction between the cement in concrete and the soil. The 2011 Edition of ACI 318 (ACI 318) has established criteria for evaluation of sulfate and chloride levels and how they relate to cement reactivity with soil and/or water.

A soil sample was obtained from the project site and was tested for the evaluation of the potential for concrete deterioration or steel corrosion due to attack by soil-borne soluble salts and soluble chloride. The water-soluble sulfate concentration in the saturation extract from the soil sample was detected to be 145 mg/kg. ACI 318 Tables 4.2.1 and 4.3.1 outline exposure categories, classes, and concrete requirements by exposure class. ACI 318 requirements for site concrete based upon soluble sulfate are summarized in Table 8.3 below.

Water Soluble Sulfate (SO4) in Soil, Percentage by Weight	Exposure Severity	Exposure Class	Maximum w/cm Ratio	Minimum Concrete Compressive Strength	Cementations Materials Type
0.0145	Not Applicable	S0	N/A	2,500 psi	No Restriction

TABLE 8.3WATER SOLUBLE SULFATE EXPOSURE REQUIREMENTS

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The water-soluble chloride concentration detected in saturation extract from the soil samples was 166 mg/kg. This level of chloride concentration is not considered severely corrosive. It is recommended that a qualified corrosion engineer be consulted regarding protection of buried steel or ductile iron piping and conduit or, at a minimum, applicable manufacturer's recommendations for corrosion protection of buried metal pipe be closely followed.

8.4 Percolation Testing

Two percolation tests (P-1 and P-2) were performed within assumed infiltration areas and were conducted in accordance with in accordance with the guidelines established by the County of Riverside. The approximate locations of the percolation tests are shown on the attached Site Plan, Figure 2.

Eight-inch diameter boreholes were advanced to the depths shown on the percolation test worksheets. The holes were pre-saturated a minimum of 18 hours and maximum of 24 hours before percolation testing commenced. Percolation rates were measured by filling the test holes with clean water and measuring the water drops at a certain time interval.

The percolation rate data are presented in tabular format at the end of this Report. The difference in the percolation rates are reflected by the varied type of soil materials at the bottom of the test holes. The test results are shown on the table below.

Test No.	Depth (feet)	Measured Percolation Rate (min/inch)	Tested Infiltration Rate* (inch/hour)	Soil Type
P-1	10	31.3	0.14	Silty SAND /Sandy SILT (SM/ML) with clay
P-2	20	20.8	0.24	Silty SAND (SM) with clay

* Tested infiltration Rate = $(\Delta H 60 r) / (\Delta t(r + 2H_{avg}))$

The soil infiltration or percolation rates are based on tests conducted with clear water. The infiltration/percolation rates may vary with time as a result of soil clogging from water impurities. The infiltration/percolation rates will deteriorate over time due to the soil conditions and an appropriate factor of safety (FS) may be applied. The owner or civil engineer may elect to use a lower FS for the design; however, more frequent maintenance will be expected. The soils may also become less permeable to impermeable if the soil is compacted. Thus, periodic maintenance consisting of clearing the bottom of the drainage system of clogged soils should be expected.

The infiltration/percolation rate may become slower if the surrounding soil is wet or saturated due to prolonged rainfalls. Additional percolation tests may be conducted at bottom of the drainage system during construction to verify the infiltration/percolation rate. Groundwater, if closer to the bottom of the drainage system, will also reduce the infiltration/percolation rate.

The scope of our services did not include a groundwater study and was limited to the performance of percolation testing and soil profile description, and the submitted data only. Our services did not include those associated with septic system design. Neither did services include an Environmental Site

Assessment for the presence or absence of hazardous and/or toxic materials in the soil, groundwater, or atmosphere; or the presence of wetlands.

Any statements, or absence of statements, in this report or on any boring logs regarding odors, unusual or suspicious items, or conditions observed, are strictly for descriptive purposes and are not intended to convey engineering judgment regarding potential hazardous and/or toxic assessment.

The geotechnical engineering information presented herein is based upon professional interpretation utilizing standard engineering practices. The work conducted through the course of this investigation, including the preparation of this report, has been performed in accordance with the generally accepted standards of geotechnical engineering practice, which existed in the geographic area at the time the report was written. No other warranty, express or implied, is made.

Please be advised that when performing percolation testing services in relatively small diameter borings, that the testing may not fully model the actual full scale long term performance of a given site. This is particularly true where percolation test data is to be used in the design of large infiltration system such as may be proposed for the site.

The measured percolation rate includes dispersion of the water at the sidewalls of the boring as well as into the underlying soils. Subsurface conditions, including percolation rates, can change over time as finegrained soils migrate. It is not warranted that such information and interpretation cannot be superseded by future geotechnical engineering developments. We emphasize that this report is valid for the project outlined above and should not be used for any other sites.

9. CONCLUSIONS AND RECOMMENDATIONS

9.1 General

- 9.1.1 Based upon the data collected during this investigation, and from a geotechnical engineering standpoint, it is our opinion that the site is suitable for the proposed construction of improvements at the site as planned, provided the recommendations contained in this report are incorporated into the project design and construction. Conclusions and recommendations provided in this report are based on our review of available literature, analysis of data obtained from our field exploration and laboratory testing program, and our understanding of the proposed development at this time.
- 9.1.2 The primary geotechnical constraints identified in our investigation is the presence of potentially compressible material at the site. Recommendations to mitigate the effects of these soils are provided in this report.
- 9.1.3 Fill materials may be present onsite beyond our boring location. The fill materials consisted of loose to medium dense silty sand. Undocumented fill materials are not suitable to support any future structures and should be replaced with Engineered Fill. The extent and consistency of the fills should be verified during site construction. Prior to fill placement, Salem Engineering Group, Inc. should inspect the bottom of the excavation to verify the fill condition.

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APPENDIX A FIELD EXPLORATION

Fieldwork for our investigation (drilling) was conducted on October 10, 2016 and included a site visit, subsurface exploration, and soil sampling. Percolation tests were performed on October 11, 2016. The locations of the exploratory borings and percolation tests are shown on the Site Plan, Figure 2. Boring logs for our exploration are presented in figures following the text in this appendix. Borings were located in the field using existing reference points. Therefore, actual boring locations may deviate slightly.

In general, our borings were performed using a truck-mounted CME 45C drill rig equipped with an 8-inch dimeter hollow-stem augers and a 4-inch solid flight auger. Sampling in the borings was accomplished using a hydraulic 140-pound hammer with a 30-inch drop. Samples were obtained with a 3-inch outsidediameter (OD), split spoon (California Modified) sampler, and a 2-inch OD, Standard Penetration Test (SPT) sampler. The number of blows required to drive the sampler the last 12 inches (or fraction thereof) of the 18-inch sampling interval were recorded on the boring logs. The blow counts shown on the boring logs should not be interpreted as standard SPT "N" values; corrections have not been applied. Upon completion, the borings were backfilled with drill cuttings.

Subsurface conditions encountered in the exploratory borings were visually examined, classified and logged in general accordance with the American Society for Testing and Materials (ASTM) Practice for Description and Identification of Soils (Visual-Manual Procedure D2488). This system uses the Unified Soil Classification System (USCS) for soil designations. The logs depict soil and geologic conditions encountered and depths at which samples were obtained. The logs also include our interpretation of the conditions between sampling intervals. Therefore, the logs contain both observed and interpreted data. We determined the lines designating the interface between soil materials on the logs using visual observations, drill rig penetration rates, excavation characteristics and other factors. The transition between materials may be abrupt or gradual. Where applicable, the field logs were revised based on subsequent laboratory testing.



M	lajor Divisio	****		Symbol	Description
	T				Well-graded gravels and gravel-sand mixtures,
iev	arse on tl	Clean	GW		little or no fines.
. 200 S	Gravels More than ½ coarse fraction retained on the No. 4 sieve	Gravels	GP		Poorly-graded gravels and gravel-sand mixtures, little or no fines.
Soils he No	Gr3 ore than ion ret No. 4	Gravels	GM		Silty gravels, gravel-sand-silt mixtures.
Coarse-grained Soils ½ retained on the No	Mc fracti	With Fines	GC		Clayey gravels, gravel-sand-clay mixtures.
rse-gr etaine	ssing o. 4	Clean Sands	SW		Well-graded sands and gravelly sands, little or no fines.
Coa n ½ re	Sands han ½ pa gh the No sieve		SP		Poorly-graded sands and gravelly sands, little or no fines.
Coarse-grained Soils More than ½ retained on the No. 200 Sieve	Sands More than 1/2 passing through the No. 4 sieve	Sands With	SM		Silty sands, sand-silt mixtures
Mo	th Mo	Fines	SC		Clayey sands, sandy-clay mixtures.
ugh	Silts an	d Clays	ML		Inorganic silts, very fine sands, rock flour, silty or clayey fine sands.
Fine-grained Soils More than ½ passing through the No. 200 Sieve	Liquid Lim	nit less than	CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
rained So 4 passing the 200 Sieve			OL	11 11 11 11	Organic clays of medium to high plasticity.
Fine-grained Soils than ½ passing th the No. 200 Sieve	Silts an	d Clays	MH		Inorganic silts, micaceous or diatomaceous fines sands or silts, elastic silts.
Fir bre tha	Liquid Limit	greater than %	СН		Inorganic clays of high plasticity, fat clays.
We			ОН		Organic clays of medium to high plasticity.
Higl	nly Organic S	Soils	PT		Peat, muck, and other highly organic soils.
			Consis	stency Cla	assification
	Granular	Soils	- 		Cohesive Soils
Descriptio	n - Blows F	Per Foot (Corr	ected)		Description - Blows Per Foot (Corrected)
Loose Medium d Dense	Medium dense 16 – 40 11 – 30				soft $\frac{MCS}{<3}$ $\frac{SPT}{<2}$ 3-5 $2-46-10$ $5-811-20$ $9-15Stiff 21-40 16-30>40$ >30
MCS =	Modified Cali	ifornia Sample	er	SE	PT = Standard Penetration Test Sampler

Unified Soil Classification System

Clie Loc	ent: cati	Boring et: Proposed Water Drops Carwash : P&N Construction, Tri-millennium Propertie ion: Near Sunnymead Boulevard & Heacock	es		o Valley	/, C/	Figu Log	ect No: 3-216-1097 ure No.: A-1 ged By: SMG	
Grı	nd.	Surf. Elev. (Ft. MSL) N/A		Dept	h to Wa	ter>		al: None completion: None	
		SUBSURFACE PROFILE	RFACE PROFILE SAMPLE						
Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture Content (%)	Sampler Type	Penetration	Blow Count	Penetration Test	
0-		Ground Surface							
		Silty SAND (SM) Dense; slightly moist; brown; fine-medium grained; with trace clay.	116.5	3.3	MCS	-	57	e	
- 5		Grades as above; very dense; moist.	112.7	8.1	MCS		60		
- - 10		Grades as above; medium dense; slightly moist.		4.3	SPT		23		
		Grades as above; dense; moist.	-	7.8	SPT		37		
		Silty SAND/Sandy SILT (SM/ML) Dense; moist; brown; fine-medium grained; with trace clay.		10.9	SPT		37		
- 25 -	a contraction of the second	Grades as above; medium dense.	-	9.7	SPT		24		
Dril Dril	l Ri ler:	ethod: Hollow Stem Auger g: CME-45C Salem Engineering Group, Inc. 1 of 2	Boi Har	rehole nmer 1	10/10/1 Size: 8 Type: Au Drop: 1	inch uto T	rip.	ALEM	

Boring No. B-1													
		ct: Proposed Water Drops Carwash					-			6-1097			
		P&N Construction, Tri-millennium Properties ion: Near Sunnymead Boulevard & Heacock §		Morony		,		ıre No.∷ ged By		ì			
		Surf. Elev. (Ft. MSL) N/A	Sileer, I		•		Initial: None						
			1		h to Wa		At C	At Completion: None					
	SUBSURFACE PROFILE SAMPLE												
Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture Content (%)	Sampler Type	Penetration	Blow Count			on Test	Water Level		
-													
-		Sandy SILT (ML) Stiff; moist; brown; fine-medium grained; with											
30-		clay.	-	12.8	SPT		14						
-													
35-		Grades as above; hard.		9.0	SPT		43		7				
-		Auger refusal at 36 feet due to dense soils.											
40													
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		Boring	No. E	3-2				
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		ion: Near Sunnymead Boulevard & Heacock Surf. Elev. (Ft. MSL) N/A	Street, I		o Valley h to Wa		Initia	ged By: SMG al: None completion: None
		SUBSURFACE PROFILE						
Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture Content (%)	Sampler Type	Penetration	Blow Count	Penetration Test 20 40 60 80
0-	HHHH	Ground Surface						
-		Silty SAND (SM) Dense; slightly moist; brown; fine-medium grained; with trace clay.	108.7	3.8	MCS		52	
- 5-		Silty SAND/Sandy SILT (SM/ML)	109.7	7.7	MCS		50	
	و موجود المربوع المراجع المراجع والمحكم المراجع المراجع والمحادة المراجع المراج	Very dense; moist; brown; fine-medium grained; with trace clay. Silty SAND (SM) Medium dense; moist; brown; fine-medium grained; with clay.		11.3	SPT		20	
15- - -		Grades as above; dense.		9.2	SPT		43	
-		Grades as above.						
20- - - 25-		End of Borehole						
Dri Dri	ll Ri ller:	ethod: Solid Flight Auger ig: CME-45C : Salem Engineering Group, Inc. 1 of 1	Boı Har	rehole nmer 1	: 10/10/1 Size: 4 Гуре: Ан Drop: 1	inch uto T	rip.	SALEM

		Boring	No. E	3-3				
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		Surf. Elev. (Ft. MSL) N/A			h to Wa		Initia	al: None completion: None
		SUBSURFACE PROFILE		SA	MPLE			
Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture Content (%)	Sampler Type	Penetration	Blow Count	20 40 60 80
0-	FUERIR	Ground Surface						· · · · · · · · · · · · · · · · · · ·
-		Silty SAND (SM) Medium dense; slightly moist; brown; fine- medium grained; with trace clay.	104.1	4.7	MCS		36	
5-		Grades as above; dense.	105.8	3.6	MCS		54	
10-		Grades as above; medium dense.		6.9	SPT		19	
- - 15-		Grades as above; very dense.		6.1	SPT		51	
-								
20- - -		Grades as above. End of Borehole						
- 25- -								
Dri Dri	ill Ri iller:	ethod: Soild Flight Auger ig: CME-45C : Salem Engineering Group, Inc. 1 of 1	Bo: Hai	rehole mmer 1	: 10/10/′ Size: 4 Гуре: А Drop: 1	inch uto 1	rip.	SALEM

Packet Pg. 585

	Boring No. B-4												
Pr	ojec	t: Proposed Water Drops Carwash					Proj	ect No	: 3-2	16-1	097		
CI	ient	P&N Construction, Tri-millennium Properties					-	ire No.:					
		on: Near Sunnymead Boulevard & Heacock S	Street, M	Noren	o Valley	, CA	•						
Gr	nd.	Surf. Elev. (Ft. MSL) N/A		Dept	h to Wa	ter>	Initial: None At Completion: None						
		SUBSURFACE PROFILE		At completion. None									
					be			1					
(ft)			Dry Density (pcf)	Moisture Content (%)	Sampler Type	Penetration	Count	Pen	etra	tion [·]	Test	Water Level	
Depth (ft)	Symbol	Description	(Del	istul nten	nple	letra	S ≷					ter L	
Del	Syı		Dry I (pcf)	Mo	Sar	Per	Blow	20	40	60	80	Wa	
0-	HIKIIII	Ground Surface											
-		Silty SAND/Sandy SILT (SM/ML) Dense; slightly moist; brown; fine-medium											
-		grained; with trace clay.	106.0	4.3	MCS		43	· ·	Î				
-													
5-		Grades as above; medium dense; fine	1 1 5.7	10.7	MCS		40		¢				
-		grained.						-					
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10-		Grades as above.											
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La	cati	on: Near Sunnymead Boulevard & Heacock S	Street, I	Moren	o Valley	, CA	•	ged By:		6		
Gr	nd.	Surf. Elev. (Ft. MSL) N/A		Depth to Water>				Initial: None At Completion: None				
		SUBSURFACE PROFILE	SAMPLE					omplet	ion: _N	lone		
						П						
£			sity	e (%)	Ě	tion	Count	Pene	tratio	on Tes	st	svel
th (f	lod	Description	Den	sture	pler	etra	ŭ					r L
Depth (ft)	Symbol		Dry Density (pcf)	Moisture Content (%)	Sampler Type	Penetration	Blow	20	40 6	50 80)	Water Level
0-		Ground Surface								· · ·		-
0-		Silty SAND (SM)						 . 		- · ·		
-		Medium dense; slightly moist; brown; fine- coarse grained; with trace clay.	105.2	4.5	MCS		25	.		1		
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- 5-		Oradaa aa ahayay daaca	405.0				40		$\sum_{i=1}^{n}$			
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								· · ·				
25-								···· • • • • • • • • • • • • • • • • •			-	
Dri	II M	ethod: Solid Flight Auger	Dri	Date	: 10/10/1	<u> </u>		<u> </u>				
Dri	ll Ri	g: CME-45C	Boi	ehole	Siz e: 4 i	nche					E	
		Salem Engineering Group, Inc. 1 of 1			Type: Aւ Drop: 1-						AL	
31			446	α 				- <u>(</u>			0	

	,				Pe	rcolation	Test W	orkshee	t				
Project: Proposed Water Drops Carwash Near Sunnymead Boulevard & Heacock Street Moreno Valley, CA Job No.: 3-216-1097 Moreno Valley, CA Date Drilled: 10/10/2016 Hole Radius: Pipe Dia.: Test Hole No.: P-1 Presoaking Date: 10/10/2016 Tested by: SK Test Date: 10/11/2016 Drilled Hole Depth: 10 ft.												3	in. in. in.
Time Start	Time Finish	Depth of Test Hole (ft) [#]	Refill- Yes or No	Elapsed Time (hrs:min)	Initial Water Level [#] (ft)	Final Water Level [#] (ft)	∆ Water Level (in.)	Δ Min.	Meas. Perc Rate (min/in)	Initial Height of Water (in)	Final Height of Water (in)	Average Height of Water (in)	Infiltration Rate, It (in/hr)
10:10	10:40	10.0	Y	0:30	6.75	6.94	2.28	30	13.2	39.0	36.7	37.9	0.23
10:40	11:10	10.0	N	0:30	6.94	7.09	1.80	30	16.7	36.7	34.9	35.8	0.19
11:10	11:40	10.0	N	0:30	7.09	7.23	1.68	30	17.9	34.9	33.2	34.1	0.19
11:40	12:10	10.0	N	0:30	7.23	7.36	1.56	30	19.2	33.2	31.7	32.5	0.18
12:10	12:40	10.0	N	0:30	7.36	7.48	1.44	30	20.8	31.7	30.2	31.0	0.17
12:40	13:10	10.0	N	0:30	7.48	7.59	1.32	30	22.7	30.2	28.9	29.6	0.17
13:10	13:40	10.0	N	0:30	7.59	7.69	1.20	30	25.0	28.9	27.7	28.3	0.16
13:40	14:10	10.0	N	0:30	7.69	7.78	1.08	30	27.8	27.7	26.6	27.2	0.15
14:10	14:40	10.0	N	0:30	7.78	7.87	1.08	30	27.8	26.6	25.6	26.1	0.15
14:40	15:10	10.0	N	0:30	7.87	7.95	0.96	30	31.3	25.6	24.6	25.1	0.14
15:10	15:40	10.0	N	0:30	7.95	8.03	0.96	30	31.3	24.6	23.6	24.1	0.15
15:40	16:10	10.0	N	0:30	8.03	8.11	0.96	30	31.3	23.6	22.7	23.2	0.15
Recommend	led for De	sign:								Infiltr	ation Rate		0.14



2.m

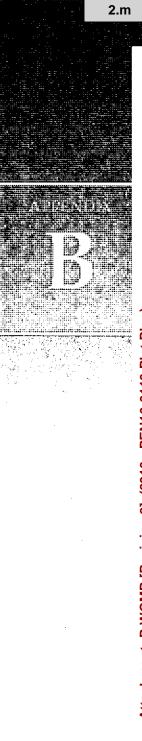
Packet Pg. 588

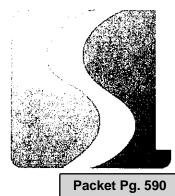
				·		rcolation							
Project:	Proposed	Water Dr	op Carv	vash		Job No.:	3-216-109	7					
		•	levard &	Heacock S		ate Drilled:		-					
	Moreno Va	illey, CA			Soil Cla	ssification:	Silty Sand v	vith clay		1	Hole Radius:		in.
Test II	- I. NT										Pipe Dia.:		in.
	ole No.:	P-2			Presoa	aking Date:				Totoal Dep	th of Hole:	240	in.
	sted by: lole Depth:	SK 20	ft.			Test Date:	10/11/201	6					
Driffed F	tole Depth:	20	11.				ľ		1		I		
		Denth of			T */T. 1	 ,							
	Time	Depth of Test Hole	Refill- Yes or	Elapsed Time	Initial Water	Final Water	4 XV-4		Meas.	Initial	Final	Average	T 011
Fime Start	Finish	(ft) [#]	No	(hrs:min)	Level [#] (ft)	Level [#] (ft)	∆ Water Level (in.)	Δ Min.	Perc Rate (min/in)	Height of Water (in)	Height of Water (in)	Height of Water (in)	Infiltration Rate, It (in/h
10:00	10:30	20.0	Y	0:30	16.10	16.40	3.60	30	8.3	46.8	43.2	45.0	0.31
10:30	11:00	20.0	N	0:30	16.40	16.64	2.88	30	10.4	43.2	40.3	41.8	0.26
11:00	11:30	20.0	N	0:30	16.64	16.85	2.52	30	11.9	40.3	37.8	39.1	0.25
11:30	12:00	20.0	N	0:30	16.85	17.04	2.28	30	13.2	37.8	35.5	36.7	0.24
12:00	12:30	20.0	N	0:30	17.04	17.22	2.16	30	13.9	35.5	33.4	34.4	0.24
12:30	13:00	20.0	N	0:30	17.22	17.40	2.16	30	13.9	33.4	31.2	32.3	0.25
13:00	13:30	20.0	N	0:30	17.40	17.57	2.04	30	14.7	31.2	29.2	30.2	0.25
13:30	14:00	20.0	N	0:30	17.57	17.73	1.92	30	15.6	29.2	27.2	28.2	0.25
14:00	14:30	20.0	N	0:30	17.73	17.88	1.80	30	16.7	27.2	25.4	26.3	0.25
14:30	15:00	20.0	N	0:30	17.88	18.02	1.68	30	17.9	25.4	23.8	24.6	0.25
15:00	15:30	20.0	N	0:30	18.02	18.15	1.56	30	19.2	23.8	22,2	23.0	0.25
15:30	16:00	20.0	N	0:30	18.15	18.27	1.44	30	20.8	22.2	20.8	21.5	0.25
ecomment	led for Des	sign:								Infiltr	ation Rate		0.24



Packet Pg. 589







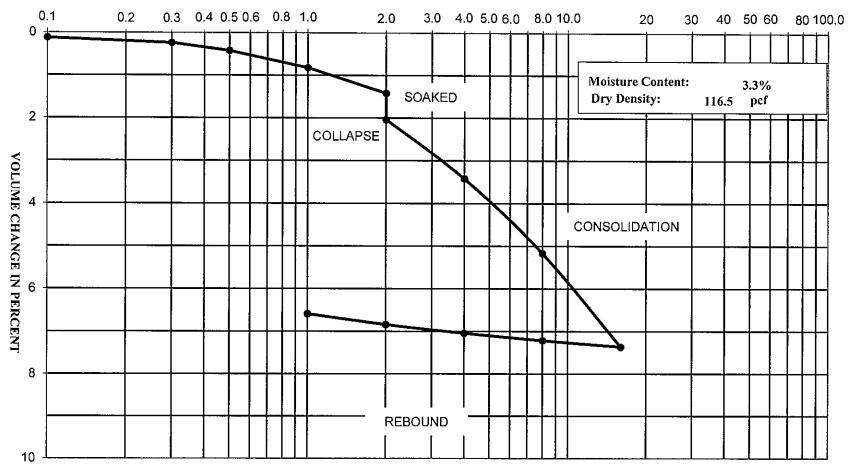
APPENDIX B LABORATORY TESTING

Laboratory tests were performed in accordance with generally accepted test methods of the American Society for Testing and Materials (ASTM), Caltrans, or other suggested procedures. Selected samples were tested for in-situ dry density and moisture content, corrosivity, consolidation, shear strength, expansion index, maximum density and optimum moisture content, and grain size distribution. The results of the laboratory tests are summarized in the following figures.





CONSOLIDATION - PRESSURE TEST DATA ASTM D 2435



LOAD IN KIPS PER SQUARE FOOT

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA

Project Number: 3-216-1097

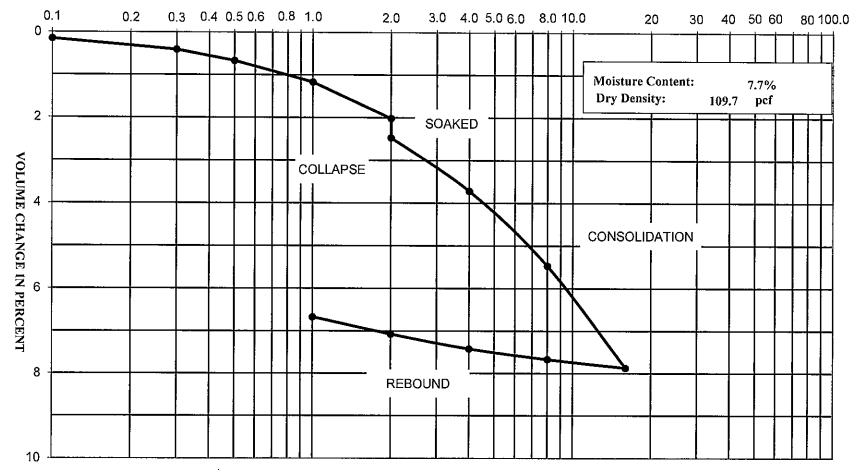
Boring: B-1 @ 2'



Attachment: P-WQMP [Revision 2] (2913 : PEN16-0113 Plot Plan)

Packet Pg. 592

CONSOLIDATION - PRESSURE TEST DATA ASTM D 2435



LOAD IN KIPS PER SQUARE FOOT

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA

Project Number: 3-216-1097

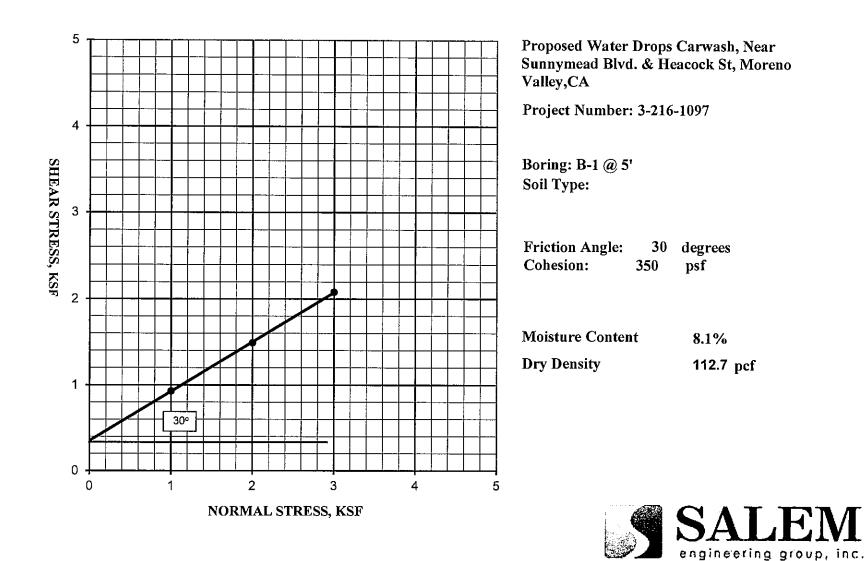
Boring: B-2 @ 5'



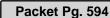
Attachment: P-WQMP [Revision 2] (2913 : PEN16-0113 Plot Plan)

Packet Pg. 593

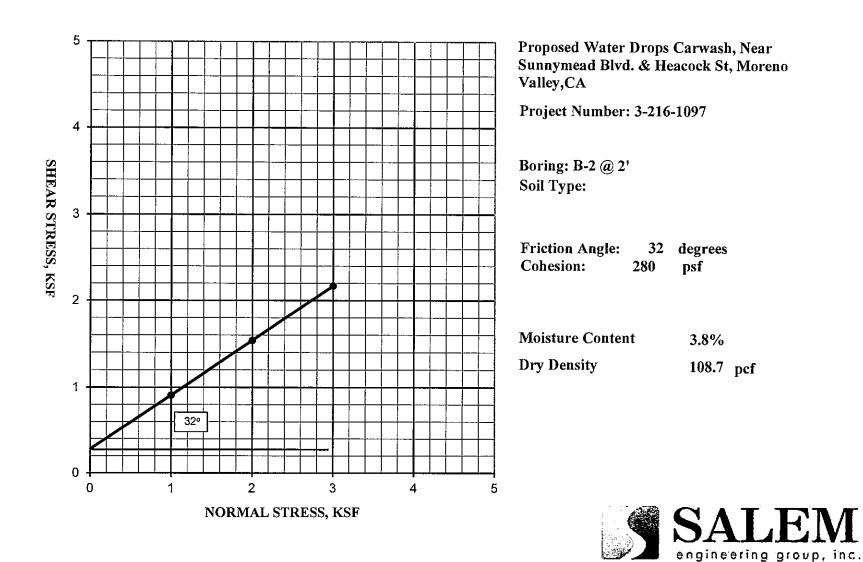
SHEAR STRENGTH DIAGRAM (DIRECT SHEAR) ASTM D - 3080



2.m

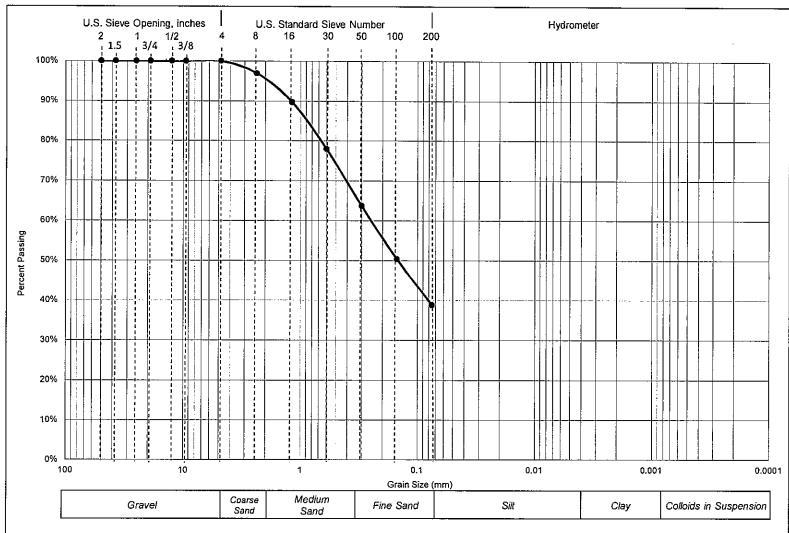


SHEAR STRENGTH DIAGRAM (DIRECT SHEAR) ASTM D - 3080





GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA

Project Number: 3-216-1097

Boring: B-1 @ 2'



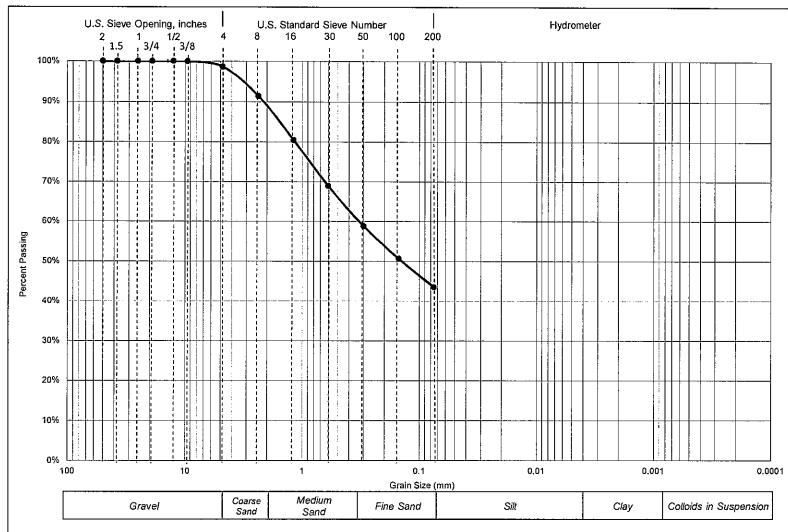
Sieve Size	Particle Size, mm	Percent Passing
1 1/2-in.	37.5	100.0%
<u>1</u> -in.	25	100.0%
3/4-in.	19	100.0%
1/2-in.	12.5	100.0%
3/8-in.	9.5	100.0%
No. 4	4.75	100.0%
No. 8	2.36	97.0%
No. 16	1.18	89.7%
No. 30	0.6	78.0%
No. 50	0.3	63.7%
No. 100	0.15	50.3%
No. 200	0.075	38.85%

ASTM C136 (without Hydrometer)

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Boring: B-1 @ 2'



GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA

Project Number: 3-216-1097

Boring: B-1 @ 5'



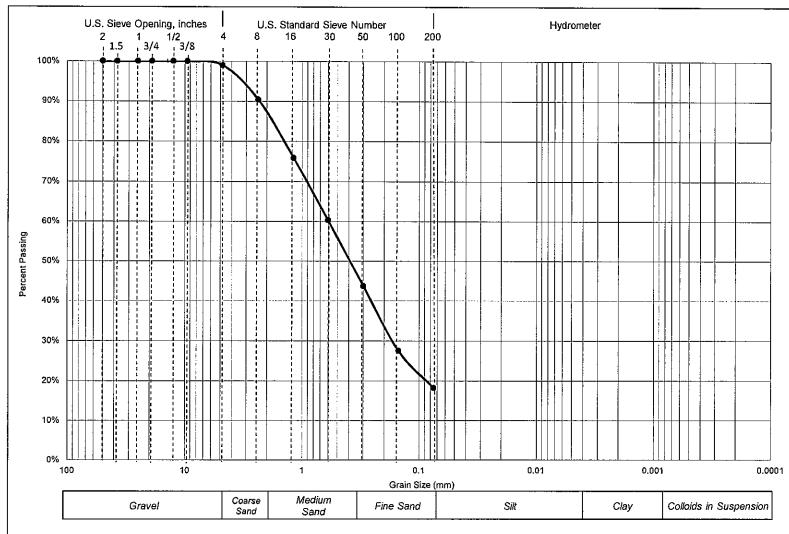
Sieve Size	Particle Size, mm	Percent Passing
1 1/2-in.	37.5	100.0%
1-in.	25	100.0%
3/4-in.	19	100.0%
1/2-in.	12.5	100.0%
3/8-in.	9.5	100.0%
No. 4	4.75	98.6%
No. 8	2.36	91.4%
No. 16	1.18	80.4%
No. 30	0.6	68.9%
No. 50	0.3	58.8%
No. 100	0.15	50.6%
No. 200	0.075	43.49%

ASTM C136 (without Hydrometer)

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Boring: B-1 @ 5'



GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA

Project Number: 3-216-1097

Boring: B-1 @ 10'



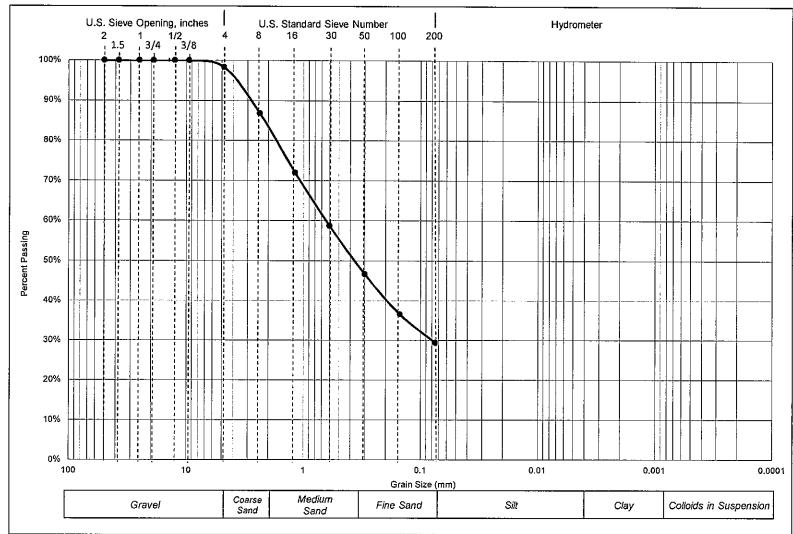
Sieve Size	Particle Size, mm	Percent Passing
1 1/2-in.	37.5	100.0%
1-in.	25	100.0%
3/4-in.	19	100.0%
1/2-in.	12.5	100.0%
3/8-in.	9.5	100.0%
No. 4	4.75	99.0%
No. 8	2.36	90.3%
No. 16	1.18	75.9%
No. 30	0.6	60.3%
No. 50	0.3	43.7%
No. 100	0.15	27.5%
No. 200	0.075	18.19%

ASTM C136 (without Hydrometer)

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Boring: B-1 @ 10'



GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA

Project Number: 3-216-1097

Boring: B-1 @ 15'



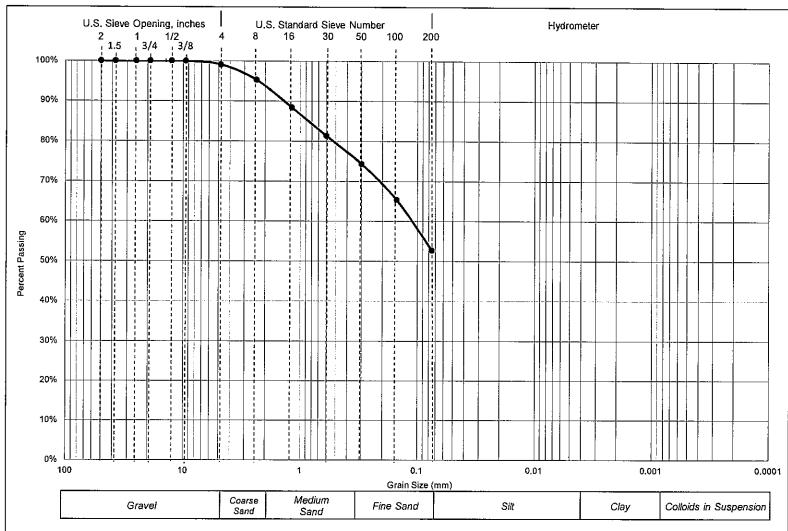
Sieve Size	Particle Size, mm	Percent Passing
1 1/2-in.	37.5	100.0%
<u>1-in.</u>	25	100.0%
3/4-in.	19	100.0%
1/2-in.	12.5	100.0%
3/8-in.	9.5	100.0%
No. 4	4.75	98.3%
No. 8	2.36	86.8%
No. 16	1.18	71.9%
No. 30	0.6	58.7%
No. 50	0.3	46.7%
No. 100	0.15	36.6%
No. 200	0.075	29.40%

ASTM C136 (without Hydrometer)

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Boring: B-1 @ 15'



GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA

Project Number: 3-216-1097

Boring: B-1 @ 20'



Sieve Size	Particle Size, mm	Percent Passing
1 1/2-in.	37.5	100.0%
1-in.	25	100.0%
3/4-in.	19	100.0%
1/2-in.	12.5	100.0%
3/8-in.	9.5	100.0%
No. 4	4.75	99.1%
No. 8	2.36	95.2%
No. 16	1.18	88.3%
No. 30	0.6	81.4%
No. 50	0.3	74.3%
No. 100	0.15	65.3%
No. 200	0.075	52.68%

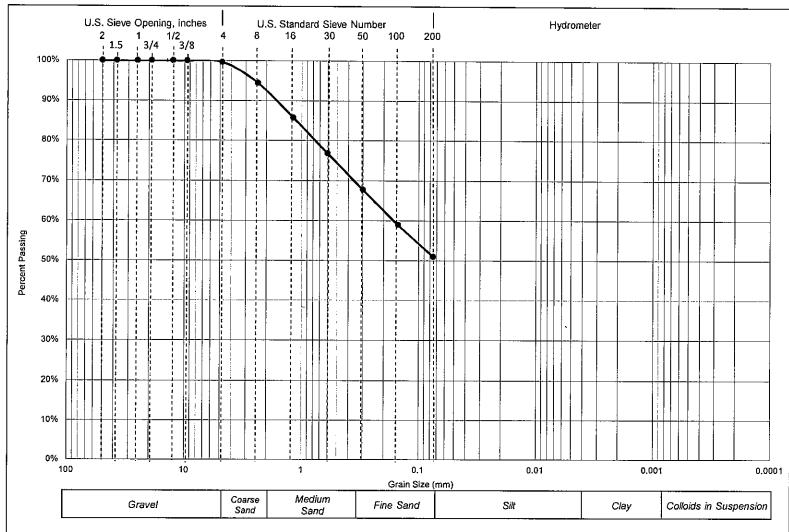
ASTM C136 (without Hydrometer)

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Boring: B-1 @ 20'



2.m

GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA

Project Number: 3-216-1097

Boring: B-1 @ 25'



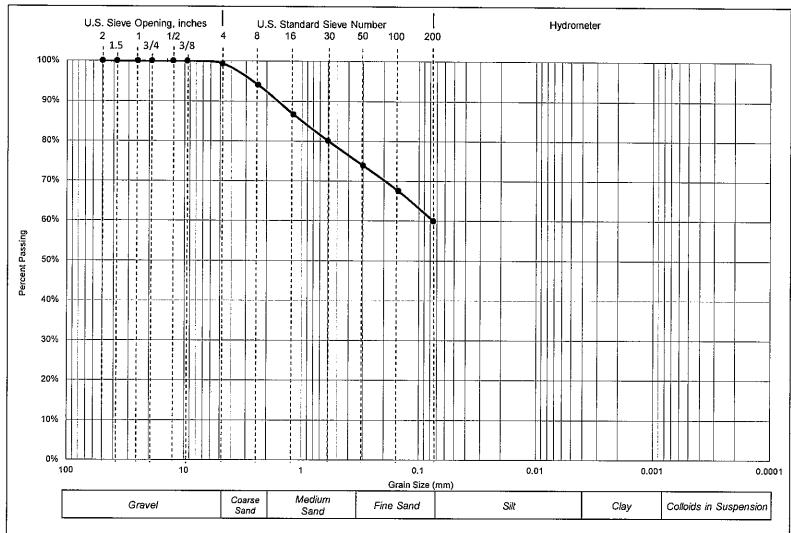
Sieve Size	Particle Size, mm	Percent Passing
1 1/2-in.	37.5	100.0%
1-in.	25	100.0%
3/4-in.	19	100.0%
1/2-in.	12.5	100.0%
3/8-in.	9.5	100.0%
No. 4	4.75	99.6%
No. 8	2.36	94.4%
No. 16	1.18	85.7%
No. 30	0.6	76.8%
No. 50	0.3	67.7%
No. 100	0.15	58.9%
No. 200	0.075	50.96%

ASTM C136 (without Hydrometer)

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Boring: B-1 @ 25'



GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA

Project Number: 3-216-1097

Boring: B-1 @ 30'



Sieve Size	Particle Size, mm	Percent Passing
1 1/2-in.	37.5	100.0%
l-in.	25	100.0%
3/4-in.	19	100.0%
1/2-in.	12.5	100.0%
3/8-in.	9.5	100.0%
No. 4	4.75	99.4%
No. 8	2.36	94.0%
No. 16	1.18	86.7%
No. 30	0.6	80.1%
No. 50	0.3	73.9%
No. 100	0.15	67.5%
No. 200	0.075	59.93%

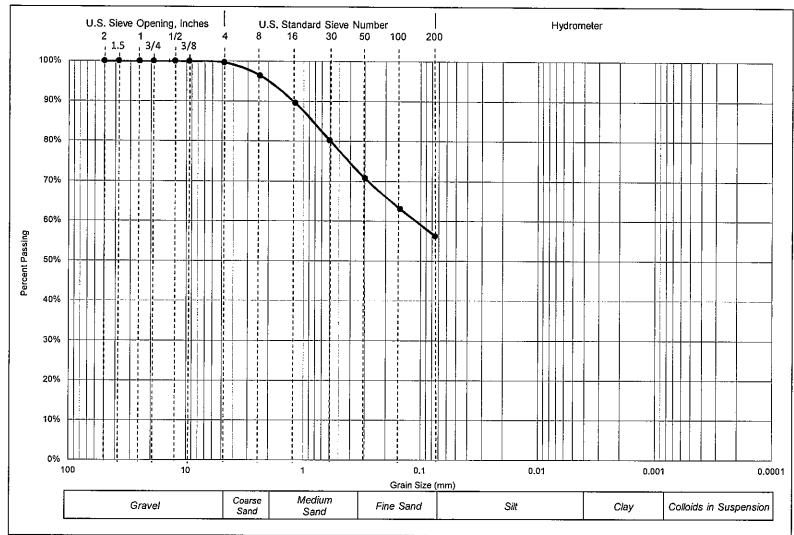
ASTM C136 (without Hydrometer)

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Boring: B-1 @ 30'



2.m

GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA

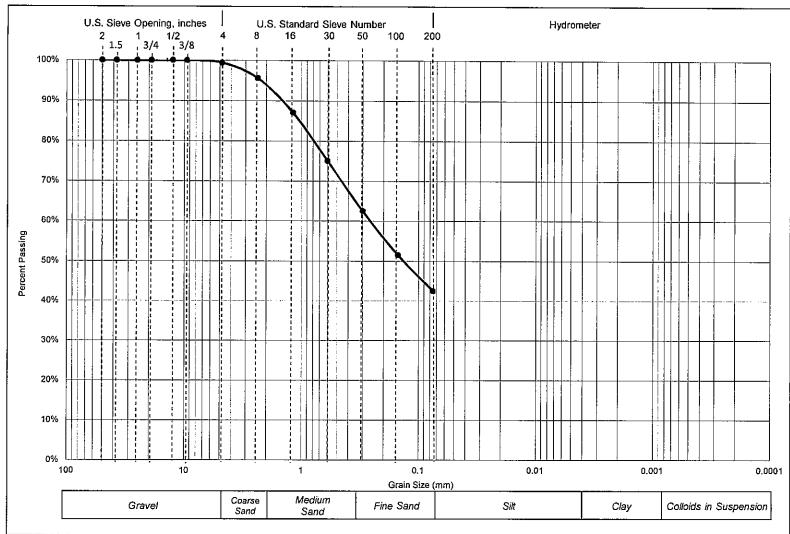
Project Number: 3-216-1097

Boring: B-1 @ 35'



2

GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA

Project Number: 3-216-1097

Boring: B-2 @ 2'



Percent Sieve Size Particle Size, mm Passing 1 1/2-in. 37.5 100.0% l-in. 25 100.0% 3/4-in. 19 100.0% 1/2-in. 12.5 100.0% 3/8-in. 9.5 100.0% No. 4 4.75 99.4% No. 8 2.36 95.6% No. 16 1.18 87.0% No. 30 0.6 75.0% No. 50 0.3 62.4% No. 100 0.15 51.5% No. 200 0.075 42.47%

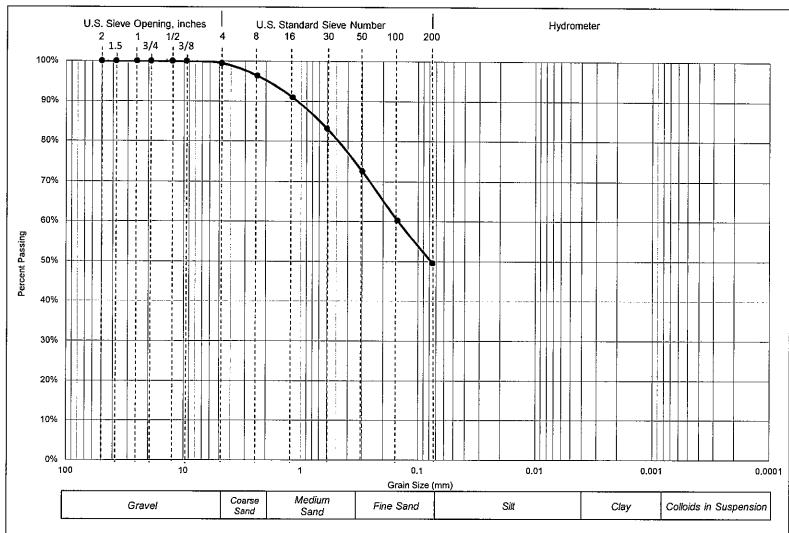
ASTM C136 (without Hydrometer)

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Boring: B-2 @ 2'



PARTICLE SIZE DISTRIBUTION DIAGRAM

GRADATION TEST - ASTM C136



Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley, CA

Project Number: 3-216-1097

Boring: B-2 @ 5'



DRY SIEVE ANALYSIS

ASTM C136 (without Hydrometer)

Sieve Size	Particle Size, mm	Percent Passing
1 1/2-in.	37.5	100.0%
1-in.	25	100.0%
3/4-in.	19	100.0%
1/2-in.	12.5	100.0%
3/8-in.	9.5	100.0%
No. 4	4.75	99.5%
No. 8	2.36	96.4%
No. 16	1.18	90.9%
No. 30	0.6	83.1%
No. 50	0.3	72.5%
No. 100	0.15	60.2%
No. 200	0.075	49.53%

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Boring: B-2 @ 5'



Packet Pg. 614

EXPANSION INDEX TEST ASTM D 4829 / UBC Std. 29-2

Project Number: 3-216-1097 Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Date: 10/18/2016 Sample location/ Depth: B-1@ 0'-3' Sample Number: 1 Soil Classification: Silty SAND (SM) with trace clay

Trial #	1	2	3
Weight of Soil & Mold, gms	619.5		
Weight of Mold, gms	186.7		
Weight of Soil, gms	432.8		
Wet Density, Lbs/cu.ft.	130.5		
Weight of Moisture Sample (Wet), gms	300.0		
Weight of Moisture Sample (Dry), gms	279.8		
Moisture Content, %	7.2		
Dry Density, Lbs/cu.ft.	121.7		
Specific Gravity of Soil	2.7		
Degree of Saturation, %	50.8		

Time	Inital	30 min	l hr	6 hrs	12 hrs	24 hrs
Dial Reading	0					0.0110

Expansion Index measured	=	11
Expansion Index 50	=	11.3

Expansion Index =

11	

Expansion Potential Table									
Exp. Index	Potential Exp.								
0 - 20	Very Low								
21 - 50	Low								
51 - 90	Medium								
91 - 130	High								
>130	Very High								



CHEMICAL ANALYSIS SO₄ - Modified Caltrans 417 & Cl - Modified Caltrans 417/422

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Date: 10/19/2016 Soil Classification: Silty SAND (SM) with trace clay

Sample	Sample	Soluble Sulfate	Soluble Chloride	рН	
Number	Location	SO ₄ -S	Cl		
la.	B-1 @ 0' - 3'	143 mg/Kg	164 mg/Kg	7.2	
lb.	B-1 @ 0' - 3'	146 mg/Kg	166 mg/Kg	7.2	
lc.	B-1 @ 0' - 3'	146 mg/Kg	167 mg/Kg	7.2	
Ave	erage:	145 mg/Kg	166 mg/Kg	7.2	

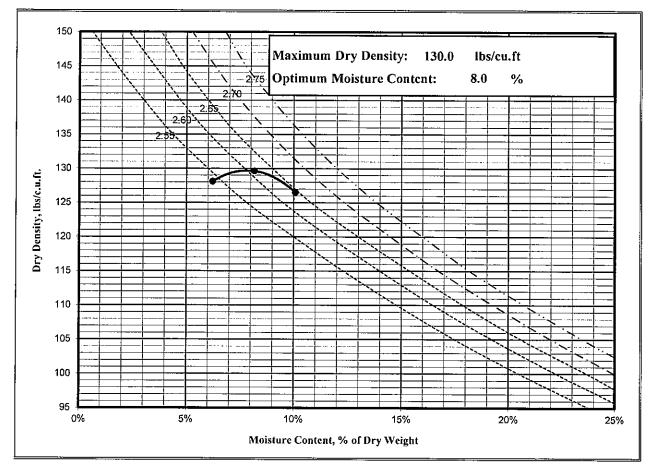


LABORATORY COMPACTION CURVE

ASTM - D1557, D698

Proposed Water Drops Carwash, Near Sunnymead Blvd. & Heacock St, Moreno Valley,CA Project Number: 3-216-1097 Date Tested: 10/18/2016 Sample Location: B-1@ 0'-3' Soil Classification: Silty SAND (SM) with trace clay Sample/Curve Number: 1 Test Method: 1557 A

	1	2	3
Weight of Moist Specimen & Mold, gm	4360.5	4374.8	4312.3
Weight of Compaction Mold, gm	2257.1	2257.1	2257.1
Weight of Moist Specimen, gm	2103.4	2117.7	2055.2
Volume of mold, cu. ft.	0.0333	0.0333	0.0333
Wet Density, lbs/cu.ft.	139.3	140.2	136.1
Weight of Wet (Moisture) Sample, gm	200.0	200.0	200.0
Weight of Dry (Moisture) Sample, gm	181.7	184.9	188.3
Moisture Content, %	10.1%	8.2%	6.2%
Dry Density, lbs/cu.ft.	126.5	129.6	128.1





APPENDIX C GENERAL EARTHWORK AND PAVEMENT SPECIFICATIONS

When the text of the report conflicts with the general specifications in this appendix, the recommendations in the report have precedence.

1.0 SCOPE OF WORK: These specifications and applicable plans pertain to and include all earthwork associated with the site rough grading, including, but not limited to, the furnishing of all labor, tools and equipment necessary for site clearing and grubbing, stripping, preparation of foundation materials for receiving fill, excavation, processing, placement and compaction of fill and backfill materials to the lines and grades shown on the project grading plans and disposal of excess materials.

2.0 **PERFORMANCE:** The Contractor shall be responsible for the satisfactory completion of all earthwork in accordance with the project plans and specifications. This work shall be inspected and tested by a representative of SALEM Engineering Group, Incorporated, hereinafter referred to as the Soils Engineer and/or Testing Agency. Attainment of design grades, when achieved, shall be certified by the project Civil Engineer. Both the Soils Engineer and the Civil Engineer are the Owner's representatives. If the Contractor should fail to meet the technical or design requirements embodied in this document and on the applicable plans, he shall make the necessary adjustments until all work is deemed satisfactory as determined by both the Soils Engineer and the Civil Engineer. No deviation from these specifications shall be made except upon written approval of the Soils Engineer, Civil Engineer, or project Architect.

No earthwork shall be performed without the physical presence or approval of the Soils Engineer. The Contractor shall notify the Soils Engineer at least 2 working days prior to the commencement of any aspect of the site earthwork.

The Contractor shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner and the Engineers harmless from any and all liability, real or alleged, in connection with the performance of work on this project, except for liability arising from the sole negligence of the Owner or the Engineers.

3.0 TECHNICAL REQUIREMENTS: All compacted materials shall be densified to no less that 95 percent of relative compaction (90 percent for fine-grained cohesive soils) based on ASTM D1557 Test Method (latest edition), UBC or CAL-216, or as specified in the technical portion of the Soil Engineer's report. The location and frequency of field density tests shall be determined by the Soils Engineer. The results of these tests and compliance with these specifications shall be the basis upon which satisfactory completion of work will be judged by the Soils Engineer.

4.0 SOILS AND FOUNDATION CONDITIONS: The Contractor is presumed to have visited the site and to have familiarized himself with existing site conditions and the contents of the data presented in the Geotechnical Engineering Report. The Contractor shall make his own interpretation of the data contained in the Geotechnical Engineering Report and the Contractor shall not be relieved of liability for any loss sustained as a result of any variance between conditions indicated by or deduced from said report and the actual conditions encountered during the progress of the work.



5.0 DUST CONTROL: The work includes dust control as required for the alleviation or prevention of any dust nuisance on or about the site or the borrow area, or off-site if caused by the Contractor's operation either during the performance of the earthwork or resulting from the conditions in which the Contractor leaves the site. The Contractor shall assume all liability, including court costs of codefendants, for all claims related to dust or wind-blown materials attributable to his work. Site preparation shall consist of site clearing and grubbing and preparation of foundation materials for receiving fill.

6.0 CLEARING AND GRUBBING: The Contractor shall accept the site in this present condition and shall demolish and/or remove from the area of designated project earthwork all structures, both surface and subsurface, trees, brush, roots, debris, organic matter and all other matter determined by the Soils Engineer to be deleterious. Such materials shall become the property of the Contractor and shall be removed from the site.

Tree root systems in proposed improvement areas should be removed to a minimum depth of 3 feet and to such an extent which would permit removal of all roots greater than 1 inch in diameter. Tree roots removed in parking areas may be limited to the upper 1½ feet of the ground surface. Backfill of tree root excavations is not permitted until all exposed surfaces have been inspected and the Soils Engineer is present for the proper control of backfill placement and compaction. Burning in areas which are to receive fill materials shall not be permitted.

7.0 SUBGRADE PREPARATION: Surfaces to receive Engineered Fill and/or building or slab loads shall be prepared as outlined above, scarified to a minimum of 12 inches, moisture-conditioned as necessary, and recompacted to 95 percent relative compaction (90 percent for fine-grained cohesive soils).

Loose soil areas and/or areas of disturbed soil shall be moisture-conditioned as necessary and recompacted to 95 percent relative compaction (90 percent for fine-grained cohesive soils). All ruts, hummocks, or other uncven surface features shall be removed by surface grading prior to placement of any fill materials. All areas which are to receive fill materials shall be approved by the Soils Engineer prior to the placement of any fill material.

8.0 EXCAVATION: All excavation shall be accomplished to the tolerance normally defined by the Civil Engineer as shown on the project grading plans. All over-excavation below the grades specified shall be backfilled at the Contractor's expense and shall be compacted in accordance with the applicable technical requirements.

9.0 FILL AND BACKFILL MATERIAL: No material shall be moved or compacted without the presence or approval of the Soils Engineer. Material from the required site excavation may be utilized for construction site fills, provided prior approval is given by the Soils Engineer. All materials utilized for constructing site fills shall be free from vegetation or other deleterious matter as determined by the Soils Engineer.

10.0 PLACEMENT, SPREADING AND COMPACTION: The placement and spreading of approved fill materials and the processing and compaction of approved fill and native materials shall be the responsibility of the Contractor. Compaction of fill materials by flooding, ponding, or jetting shall not be permitted unless specifically approved by local code, as well as the Soils Engineer. Both cut and fill shall be surface-compacted to the satisfaction of the Soils Engineer prior to final acceptance.



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11.0 SEASONAL LIMITS: No fill material shall be placed, spread, or rolled while it is frozen or thawing, or during unfavorable wet weather conditions. When the work is interrupted by heavy rains, fill operations shall not be resumed until the Soils Engineer indicates that the moisture content and density of previously placed fill is as specified.

12.0 DEFINITIONS - The term "pavement" shall include asphaltic concrete surfacing, untreated aggregate base, and aggregate subbase. The term "subgrade" is that portion of the area on which surfacing, base, or subbase is to be placed. The term "Standard Specifications": hereinafter referred to, is the most recent edition of the Standard Specifications of the State of California, Department of Transportation. The term "relative compaction" refers to the field density expressed as a percentage of the maximum laboratory density as determined by ASTM D1557 Test Method (latest edition) or California Test Method 216 (CAL-216), as applicable.

I3.0 PREPARATION OF THE SUBGRADE - The Contractor shall prepare the surface of the various subgrades receiving subsequent pavement courses to the lines, grades, and dimensions given on the plans. The upper 12 inches of the soil subgrade beneath the pavement section shall be compacted to a minimum relative compaction of 95 percent (90 percent for fine-grained cohesive soils) based upon ASTM D1557. The finished subgrades shall be tested and approved by the Soils Engineer prior to the placement of additional pavement courses.

14.0 AGGREGATE BASE - The aggregate base material shall be spread and compacted on the prepared subgrade in conformity with the lines, grades, and dimensions shown on the plans. The aggregate base material shall conform to the requirements of Section 26 of the Standard Specifications for Class II material, ³/₄-inch or 1¹/₂-inches maximum size. The aggregate base material shall be compacted to a minimum relative compaction of 95 percent based upon CAL-216. The aggregate base material shall be tested and approved by the Soils Engineer prior to the placement of successive layers.

15.0 AGGREGATE SUBBASE - The aggregate subbase shall be spread and compacted on the prepared subgrade in conformity with the lines, grades, and dimensions shown on the plans. The aggregate subbase material shall conform to the requirements of Section 25 of the Standard Specifications for Class II Subbase material. The aggregate subbase material shall be compacted to a minimum relative compaction of 95 percent based upon CAL-216, and it shall be spread and compacted in accordance with the Standard Specifications. Each layer of aggregate subbase shall be tested and approved by the Soils Engineer prior to the placement of successive layers.

16.0 ASPHALTIC CONCRETE SURFACING - Asphaltic concrete surfacing shall consist of a mixture of mineral aggregate and paving grade asphalt, mixed at a central mixing plant and spread and compacted on a prepared base in conformity with the lines, grades, and dimensions shown on the plans. The viscosity grade of the asphalt shall be PG 64-10, unless otherwise stipulated or local conditions warrant more stringent grade. The mineral aggregate shall be Type A or B, $\frac{1}{2}$ inch maximum size, medium grading, and shall conform to the requirements set forth in Section 39 of the Standard Specifications. The drying, proportioning, and mixing of the materials shall conform to Section 39. The prime coat, spreading and compacting equipment, and spreading and compacting the mixture shall conform to the applicable chapters of Section 39, with the exception that no surface course shall be placed when the atmospheric temperature is below 50 degrees F. The surfacing shall be rolled with a combination steel-wheel and pneumatic rollers, as described in the Standard Specifications. The surface course shall be placed with an approved self-propelled mechanical spreading and finishing machine.

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C-3



Phase I Environmental Site Assessment or Other Information on Past Site Use

Appendix 5: LID Infeasibility

LID Technical Infeasibility Analysis

Appendix 6: BMP Design Details

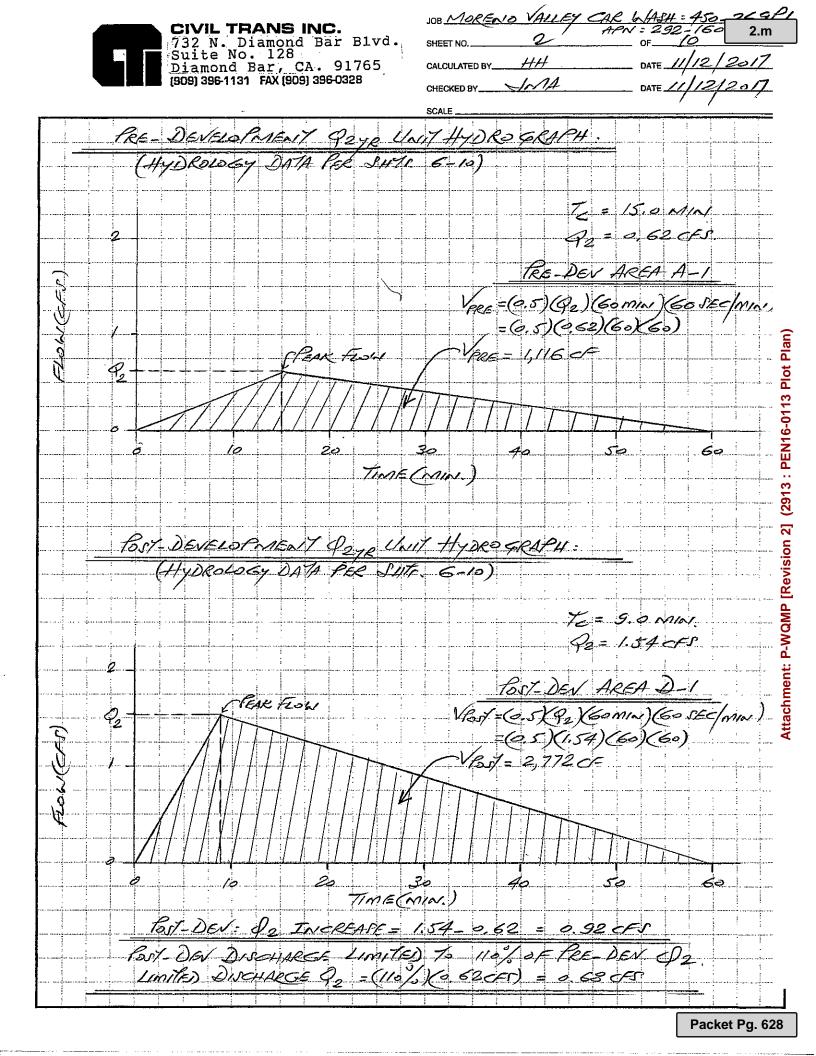
BMP Sizing, Design Details and other Supporting Documentation

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		Note this works	heet shall <u>only</u> be used	lin coniumatio	m with DAD	daniana from the			Calculated Cel
mpan	y Name	Civil Trans		in conjunctio	11 WAA DMI	uesigns ji om me			11/20/2017
signed	-	Jay Aslam, I			·		-		PEN16-0113
mpan	y Project	Number/Nam	ıe		450-269P	1, Water Dro	ps Car Wa		
				BMP	Identificati	on			
1P NA	ME / ID	Biofiltration	Basin/BMP 1						
			Musi			an BMP Design	Calculation	n Sheet	
h Dor	oontile D	4-hour Rainfa	ll Dooth	Design	Rainfall D	epth			
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						a Tabulation			
F		Ins	sert additional rows i	f needed ta	accommod	ote all DMAs di	raining to ti	he BMP	
	DMA	DMA Area	Post-Project Surface	Effective Imperivous	DMA Runoff	DMA Areas x	Design Storm	Design Capture Volume, V _{BMP}	Proposed Volume on Plans (cubic
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⊦	D/2	2,400	Concrete or Asphalt	1	0.892	2140.8			
	D/3	4,295	Mixed Surface Types	0.6	0.40893	1756.3			
	D/4	24,210	Concrete or Asphalt	1	0.892	21595.3			
-	D/5	17232	Concrete or Asphalt	1	0.892	15370.9			
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Bioretention F	acility - Design Procedure	BMP ID	Legend:	Required Entries				
	aonity - Design i loccuile	BMP 1	Legend:	Calculated Cells				
Company Name:	CIVIL TRAN				1/20/201			
Designed by:	Jay Aslam		County/City (Case No.: Pl	EN16-01	13		
		Design Volume						
Enter the	area tributary to this feature			A _T =	1.28	acres		
Enter V _{BN}	AP determined from Section 2	.1 of this Handbook		V _{BMP} =	2,534	ft³		
	Type of B	Bioretention Facility	Design					
Side slope	es required (parallel to parking spaces o	r adjacent to walkways)						
🔿 No side sl	opes required (perpendicular to parking	space or Planter Boxes)						
	Bioreten	tion Facility Surface	e Area			·		
Depth of S	Soil Filter Media Layer			d _s =	2.0	_ft		
Top Widt	h of Bioretention Facility, exc	cluding curb		w _T =	40.0	ft		
Total Effe	ctive Depth, d _E							
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	Surface Area, A _m							
A_{M} (ft ²)	$=\frac{V_{BMP}(ft^{3})}{d_{F}(ft)}$	_		$A_{M} =$	1,710	tt=		
	d _e (ff) Surface Area			A=	2,000	ft ²		
	Biorete	ntion Facility Prope	rties					
Side Slop	es in Bioretention Facility			z =	4	:1		
Side Biop	es ni bioretention i aemity			Z	4	1		
Diameter	of Underdrain			<u></u>	6	inches		
Longitudi	nal Slope of Site (3% maxim	um)			1	_%		
6" Check]	Dam Spacing				25	feet		
		al Grasses						
otes: Landscape	e area per Landscape Plans							

Supporting Detoil Relating to Hydrologic Conditions of Concern

JOB MORENO VALLEY CAR WAPH = 450-260-01 APN : 292-160-023 2.m SHEET NO. ______OF___OF___OF____OF____OF____O CIVIL TRANS INC. 732 N. Diamond Bar Blvd. Suite No. 128 Diamond Bar, CA. 91765 DATE 11/12/2017 HH CALCULATED BY___ (909) 396-1131 FAX (909) 396-0328 JMA DATE 11/12/2017 CHECKED BY____ SCALE HEOR MITIGATION : PRE-DEVELOPMENT AND POST-DEVELOPMENT HYDROGRAPHS PRE-YR PEAR FIDELS ARE PROVIDED ON THE FOLLOWING DHEET. (20F10) PER CONDITION" " OF SECTION F. 2 HEDE MITIGATION, THE DISCHARGE FLOW RATE FROM THE BID-FILTRATION BASIN IN LIMITED TO 110%. OF THE PRE-DENELOPONENT Q2-48 FLOW. RE-DEVELOPARENT De yR FLOUS = 0.62 CER (DHTA 6-10) Post-DEVELOPARENT Q2-YR LIMITED DIRCHARGE = 110% (0.62) = 0.680EFF BID-FILTRATION BASIN SIZE IS 50×40 = 2,000 SF. TER QUE DRAMAGE. $V_{p} = Ap \times d_{E}$ EFFECTIVE DEPTH = d_{E} = 1.48 $V_{p} = 2,000 \times 1.43 = 2,560 CF.$ $V_{p} = 2,960 CF.$ $V_{p} = 2,960 CF.$ $V_{p} = 2,772 CF.$ $V_{p} = 2,772 CF.$ $V_{p} = 2,772 CF.$ $V_{p} = 2,772 CF.$ BIO-FILTRATIONS BASIN OUTFLOW BOX IS PROVIDED WITH G-INCH DIA. RVC PIPE WHICH HAS THE MAXIMUM FLOW DISCHARGE CAPACITY OF O.GB CFS AS MENTIONED ABOVE FOR POST-DEN. Q2-YR LINITED DISCHARGE (SHT. 30F10) BASED ON ABOVE DERCEIBED Q2-48 HYDROCRAPHS ANACYSIS AND RESPECTIVE CALCULATIONS FOR Q2-48 POST-DEN LINSITED OUTFLOW, condition & OF SECTION F.2 15 SATISFIED. HENCE, HODE CRITERIA IS CONSIDERED MITIGATED Packet Pg. 627

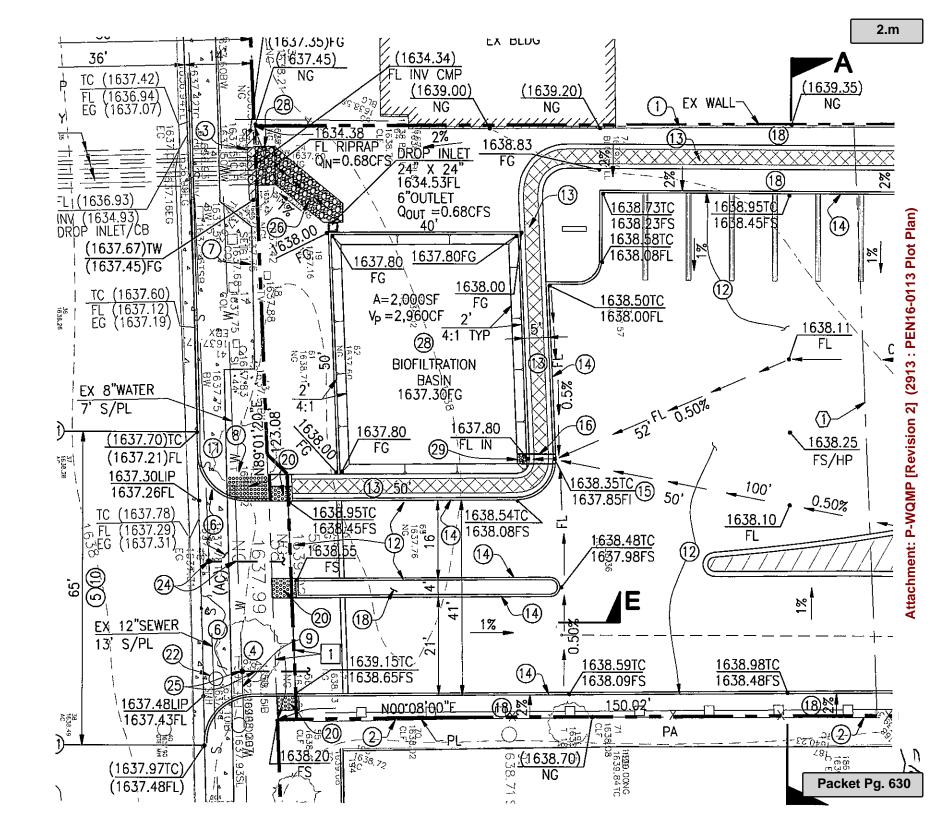


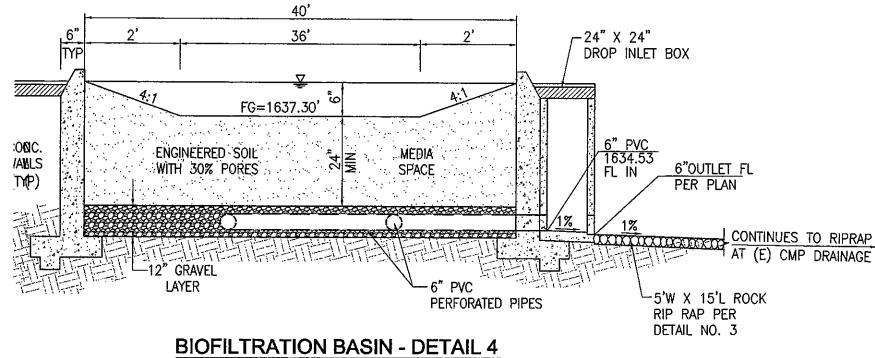
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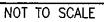
Moreno Valley Carwash Bio-Filtration Basin Discharge

JCAIN Sewer Pipes -- English Units Civil Tools for Windows (11-13-2017, 18:43:34)

Flowrate	Diameter	Friction	Slope	Velocity
(cfs)	(in)	()	(%)	(fps)
0.68	6.10	0.011	1.00	3.40





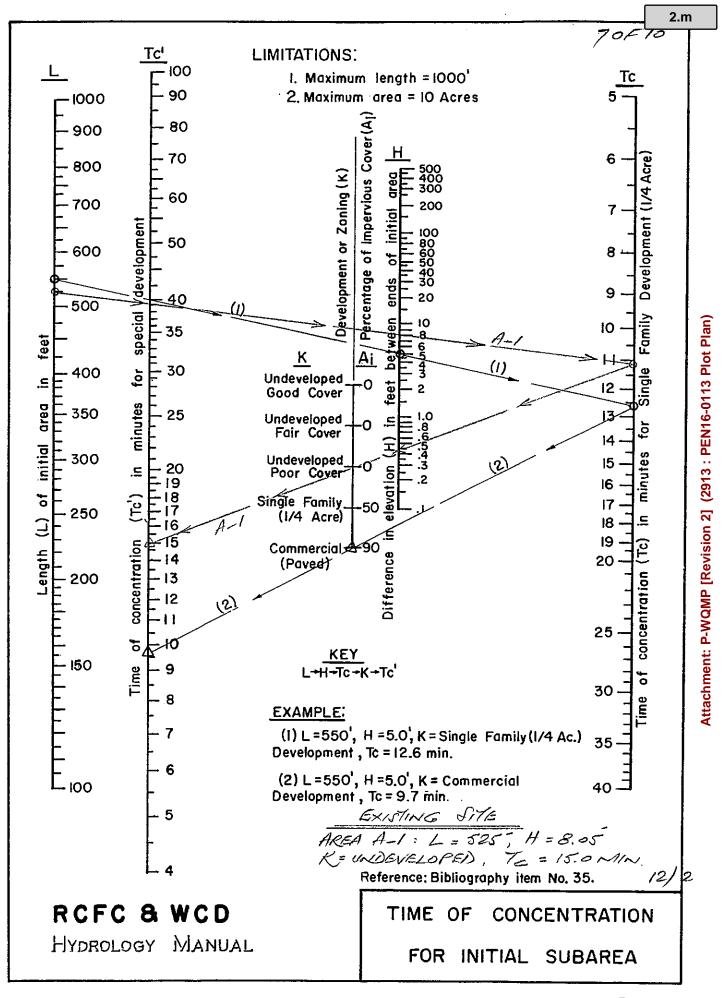


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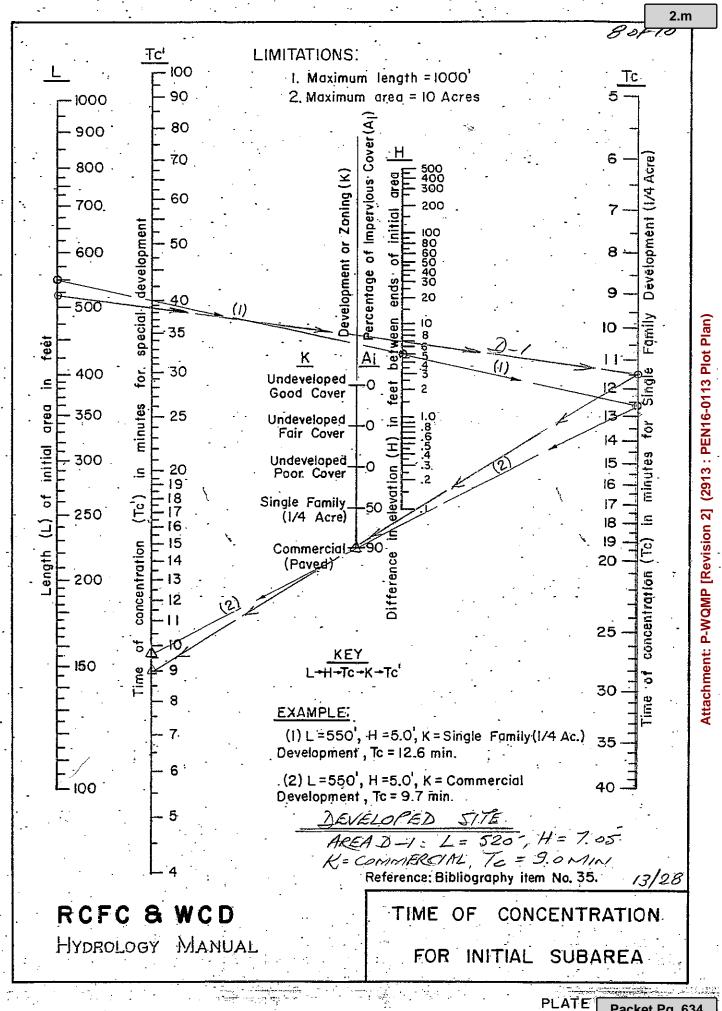
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DRAINAGE AREA	. Soil & Development	A Acres	i In/hr.	С	4 Q C F S		SLOPE	SECTION	v FPS	L FT.	T MIN.	٤т	REMARKS
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TOTAL EXISTING	RUNDRF QO	1.68			0,62	,						15.0	RUNOFF COLLECTO (EXIT) 24° CMP AT WLY PL.
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PLATE D-2

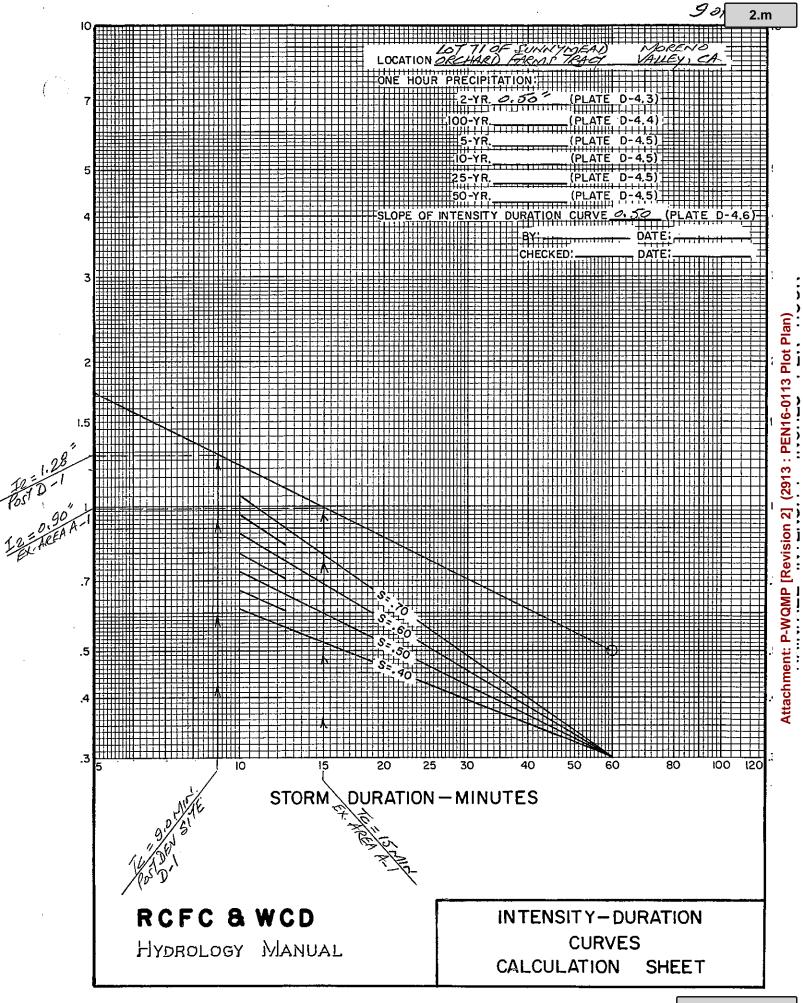


PLATE

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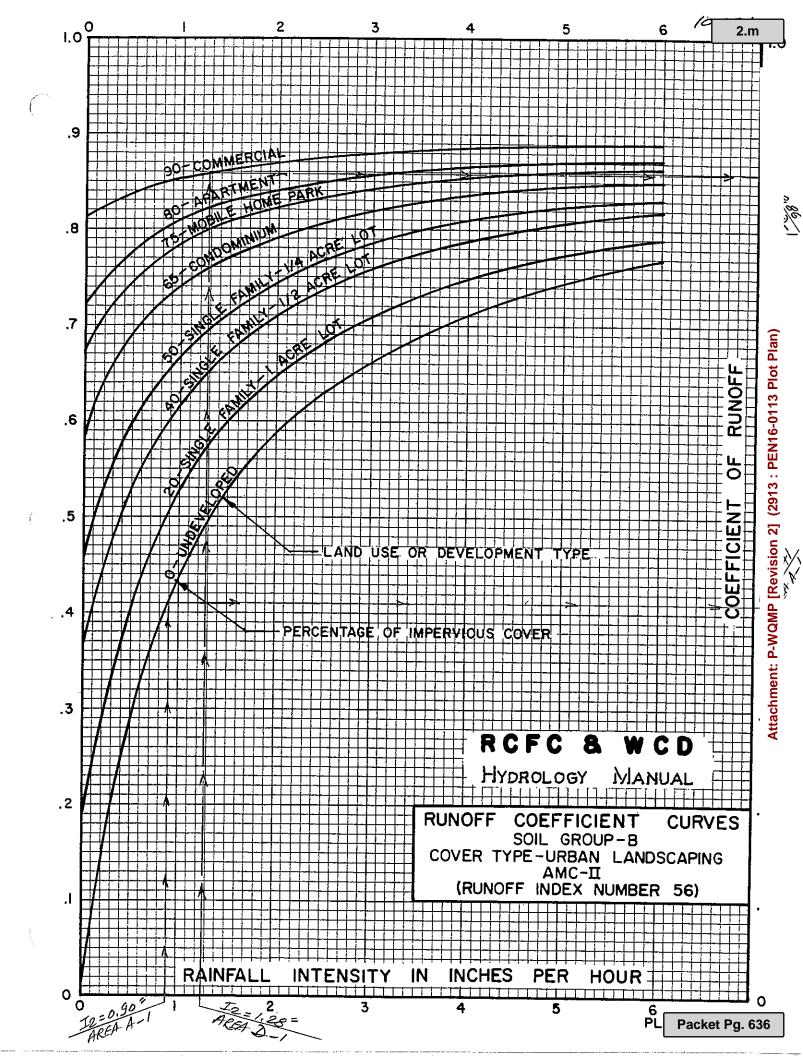


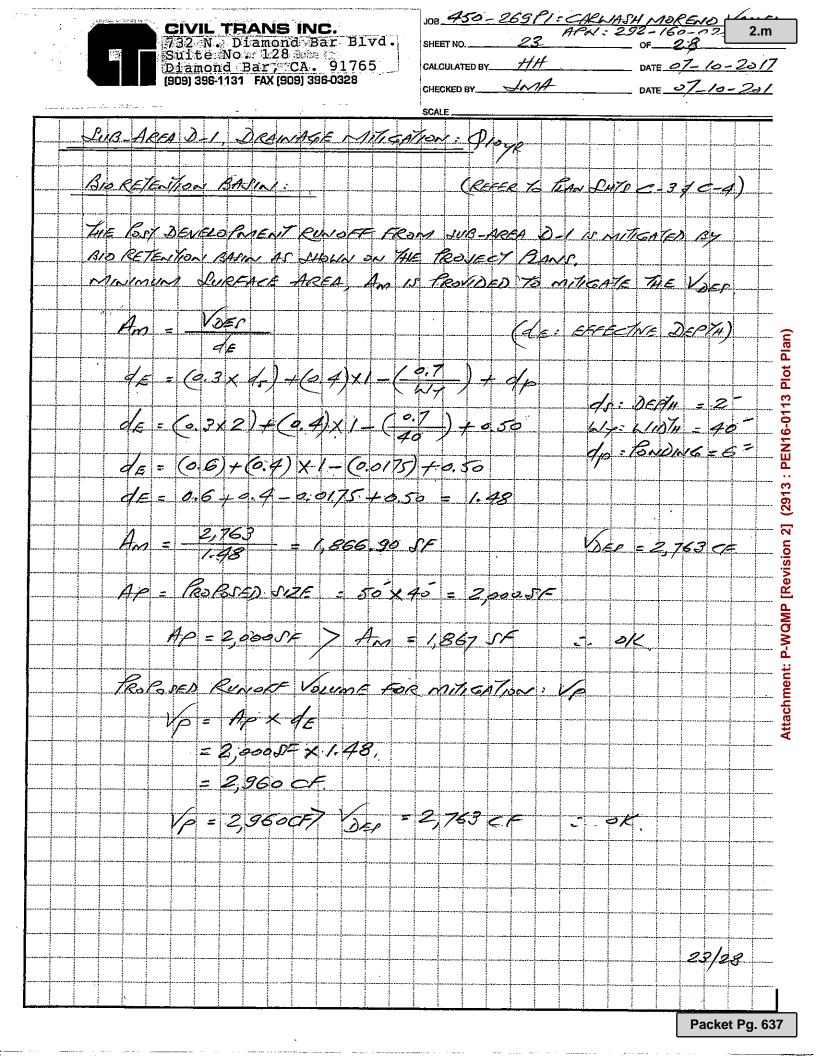
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PLA Packet Pg. 635

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Appendix 8: Source Control

Pollutant Sources/Source Control Checklist

Appendix 9: O&M

Operation and Maintenance Plan and Documentation of Finance, Maintenance and Recording Mechanisms

Appendix 10: Educational Materials

BMP Fact Sheets, Maintenance Guidelines and Other End-User BMP Information

3.5 Bioretention Facility

Type of BMP	LID – Bioretention
Treatment Mechanisms	Infiltration, Evapotranspiration, Evaporation, Biofiltration
Maximum Drainage AreaThis BMP is intended to be integrated into a project's landscape distributed manner. Typically, contributing drainage areas to Bi Facilities range from less than 1 acre to a maximum of around 1	
ther Names Rain Garden, Bioretention Cell, Bioretention Basin, Biofiltration Basir Landscaped Filter Basin, Porous Landscape Detention	

Description

Bioretention Facilities are shallow, vegetated basins underlain by an engineered soil media. Healthy plant and biological activity in the root zone maintain and renew the macro-pore space in the soil and maximize plant uptake of pollutants and runoff. This keeps the Best Management Practice (BMP) from becoming clogged and allows more of the soil column to function as both a sponge (retaining water) and a highly effective and self-maintaining biofilter. In most cases, the bottom of a Bioretention Facility is unlined, which also provides an opportunity for infiltration to the extent the underlying onsite soil can accommodate. When the infiltration rate of the underlying soil is exceeded, fully biotreated flows are discharged via underdrains. Bioretention Facilities therefore will inherently achieve the maximum feasible level of infiltration and evapotranspiration and achieve the minimum feasible (but highly biotreated) discharge to the storm drain system.

Siting Considerations

These facilities work best when they are designed in a relatively level area. Unlike other BMPs, Bioretention Facilities can be used in smaller landscaped spaces on the site, such as:

- ✓ Parking islands
- ✓ Medians
- ✓ Site entrances

Landscaped areas on the site (such as may otherwise be required through minimum landscaping ordinances), can often be designed as Bioretention Facilities. This can be accomplished by:

- Depressing landscaped areas below adjacent impervious surfaces, rather than elevating those areas
- Grading the site to direct runoff from those impervious surfaces *into* the Bioretention Facility, rather than away from the landscaping
- Sizing and designing the depressed landscaped area as a Bioretention Facility as described in this Fact Sheet

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Attachment: P-WQMP [Revision 2] (2913 : PEN16-0113 Plot Plan)

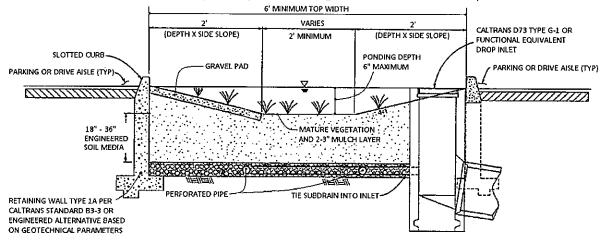
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Bioretention Facilities should however not be used downstream of areas where large amounts of sediment can clog the system. Placing a Bioretention Facility at the toe of a steep slope should also be avoided due to the potential for clogging the engineered soil media with erosion from the slope, as well as the potential for damaging the vegetation.

Design and Sizing Criteria

The recommended cross section necessary for a Bioretention Facility includes:

- Vegetated area
- 18' minimum depth of engineered soil media
- 12' minimum gravel layer depth with 6' perforated pipes (added flow control features such as orifice plates may be required to mitigate for HCOC conditions)



While the 18-inch minimum engineered soil media depth can be used in some cases, it is recommended to use 24 inches or a preferred 36 inches to provide an adequate root zone for the chosen plant palate. Such a design also provides for improved removal effectiveness for nutrients. The recommended ponding depth inside of a Bioretention Facility is 6 inches; measured from the flat bottom surface to the top of the water surface as shown in Figure 1.

Because this BMP is filled with an engineered soil media, pore space in the soil and gravel layer is assumed to provide storage volume. However, several considerations must be noted:

- Surcharge storage above the soil surface (6 inches) is important to assure that design flows do not bypass the BMP when runoff exceeds the soil's absorption rate.
- In cases where the Bioretention Facility contains engineered soil media deeper than 36 inches, the pore space within the engineered soil media can only be counted to the 36inch depth.
- A maximum of 30 percent pore space can be used for the soil media whereas a maximum of 40 percent pore space can be use for the gravel layer.

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Engineered Soil Media Requirements

The engineered soil media shall be comprised of 85 percent mineral component and 15 percent organic component, by volume, drum mixed prior to placement. The mineral component shall be a Class A sandy loam topsoil that meets the range specified in Table 1 below. The organic component shall be nitrogen stabilized compost¹, such that nitrogen does not leach from the media.

Percent Range	Component	
70-80	Sand	
15-20	Silt	
5-10	Clay	

Table 1: Mineral	Component Range	Requirements

The trip ticket, or certificate of compliance, shall be made available to the inspector to prove the engineered mix meets this specification.

Vegetation Requirements

Vegetative cover is important to minimize erosion and ensure that treatment occurs in the Bioretention Facility. The area should be designed for at least 70 percent mature coverage throughout the Bioretention Facility. To prevent the BMP from being used as walkways, Bioretention Facilities shall be planted with a combination of small trees, densely planted shrubs, and natural grasses. Grasses shall be native or ornamental; preferably ones that do not need to be mowed. The application of fertilizers and pesticides should be minimal. To maintain oxygen levels for the vegetation and promote biodegradation, it is important that vegetation not be completely submerged for any extended period of time. Therefore, a maximum of 6 inches of ponded water shall be used in the design to ensure that plants within the Bioretention Facility remain healthy.

A 2 to 3-inch layer of standard shredded aged hardwood mulch shall be placed as the top layer inside the Bioretention Facility. The 6-inch ponding depth shown in Figure 1 above shall be measured from the top surface of the 2 to 3-inch mulch layer.

Curb Cuts

To allow water to flow into the Bioretention Facility, 1-foot-wide (minimum) curb cuts should be placed approximately every 10 feet around the perimeter of the Bioretention Facility. Figure 2 shows a curb cut in a Bioretention Facility. <u>Curb cut flow lines must be at or above the V_{BMP}</u> water surface level.

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¹ For more information on compost, visit the US Composting Council website at: <u>http://compostingcouncil.org/</u>



Figure 2: Curb Cut located in a Bioretention Facility

To reduce erosion, a gravel pad shall be placed at each inlet point to the Bioretention Facility. The gravel should be 1- to 1.5-inch diameter in size. The gravel should overlap the curb cut opening a minimum of 6 inches. The gravel pad inside the Bioretention Facility should be flush with the finished surface at the curb cut and extend to the bottom of the slope.

In addition, place an apron of stone or concrete, a foot square or larger, inside each inlet to prevent vegetation from growing up and blocking the inlet. See Figure 3.

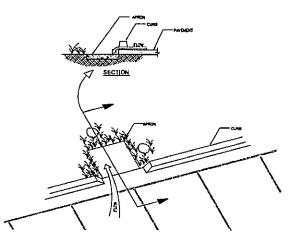


Figure 3: Apron located in a Bioretention Facility

Terracing the Landscaped Filter Basin

It is recommended that Bioretention Facilities be level. In the event the facility site slopes and lacks proper design, water would fill the lowest point of the BMP and then discharge from the basin without being treated. To ensure that the water will be held within the Bioretention Facility on sloped sites, the BMP must be terraced with nonporous check dams to provide the required storage and treatment capacity.

The terraced version of this BMP shall be used on non-flat sites with no more than a 3 percent slope. The surcharge depth cannot exceed 0.5 feet, and side slopes shall not exceed 4:1. Table 2 below shows the spacing of the check dams, and slopes shall be rounded up (i.e., 2.5 percent slope shall use 10' spacing for check dams).

Table 2: Check Dam Spacing				
6" Check Dam Spacing				
Slope	Spacing			
1%	25'			
2%	15'			
3%	10'			

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Roof Runoff

Roof downspouts may be directed towards Bioretention Facilities. However, the downspouts must discharge onto a concrete splash block to protect the Bioretention Facility from erosion. **Retaining Walls**

It is recommended that Retaining Wall Type 1A, per Caltrans Standard B3-3 or equivalent, be constructed around the entire perimeter of the Bioretention Facility. This practice will protect the sides of the Bioretention Facility from collapsing during construction and maintenance or from high service loads adjacent to the BMP. Where such service loads would not exist adjacent to the BMP, an engineered alternative may be used if signed by a licensed civil engineer.

Side Slope Requirements

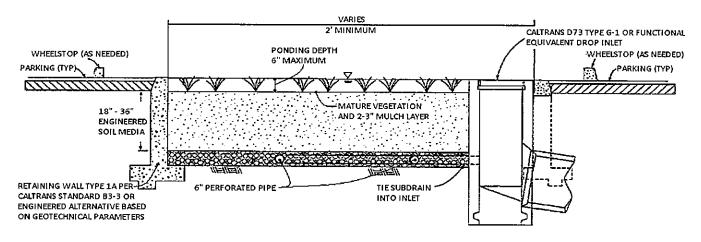
Bioretention Facilities Requiring Side Slopes

The design should assure that the Bioretention Facility does not present a tripping hazard. Bioretention Facilities proposed near pedestrian areas, such as areas parallel to parking spaces or along a walkway, must have a gentle slope to the bottom of the facility. Side slopes inside of a Bioretention Facility shall be 4:1. A typical cross section for the Bioretention Facility is shown in Figure 1.

Bioretention Facilities Not Requiring Side Slopes

Where cars park perpendicular to the Bioretention Facility, side slopes are not required. A 6inch maximum drop may be used, and the Bioretention Facility must be planted with trees and shrubs to prevent pedestrian access. In this case, a curb is not placed around the Bioretention Facility,

but wheel stops shall be used to prevent vehicles from entering the Bioretention Facility, as shown in Figure 4.



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Planter Boxes

Bioretention Facilities can also be placed above ground as planter boxes. Planter boxes must have a minimum width of 2 feet, a maximum surcharge depth of 6 inches, and no side slopes are necessary. Planter boxes must be constructed so as to ensure that the top surface of the engineered soil media will remain level. This option may be constructed of concrete, brick, stone or other stable materials that will not warp or bend. Chemically treated wood or galvanized steel, which has the ability to contaminate stormwater, should not be used. Planter boxes must be lined with an impermeable liner on all sides, including the bottom. Due to the impermeable liner, the inside bottom of the planter box shall be designed and constructed with a cross fall, directing treated flows within the subdrain layer toward the point where subdrain exits the planter box, and subdrains shall be oriented with drain holes oriented down. These provisions will help avoid excessive stagnant water within the gravel underdrain layer. Similar to the in-ground Bioretention Facility versions, this BMP benefits from healthy plants and biological activity in the root zone. Planter boxes should be planted with appropriately selected vegetation.

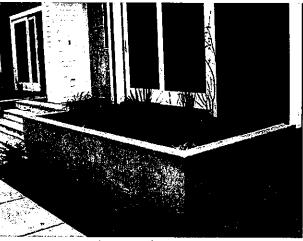


Figure 5: Planter Box Source: LA Team Effort

Overflow

An overflow route is needed in the Bioretention Facility design to bypass stored runoff from storm events larger than V_{BMP} or in the event of facility or subdrain clogging. Overflow systems must connect to an acceptable discharge point, such as a downstream conveyance system as shown in Figure 1 and Figure 4. The inlet to the overflow structure shall be elevated inside the Bioretention Facility to be flush with the ponding surface for the design capture volume (V_{BMP}) as shown in Figure 4. This will allow the design capture volume to be fully treated by the Bioretention Facility, and for larger events to safely be conveyed to downstream systems. The overflow inlet shall <u>not</u> be located in the entrance of a Bioretention Facility, as shown in Figure 6.

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Attachment: P-WQMP [Revision 2] (2913 : PEN16-0113 Plot Plan)

Underdrain Gravel and Pipes

An underdrain gravel layer and pipes shall be provided in accordance with Appendix B – Underdrains.



Figure 6: Incorrect Placement of an Overflow Inlet.

Inspection and Maintenance Schedule

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The Bioretention Facility area shall be inspected for erosion, dead vegetation, soggy soils, or standing water. The use of fertilizers and pesticides on the plants inside the Bioretention Facility should be minimized.

Schedule	Activity
Ongoing	 Keep adjacent landscape areas maintained. Remove clippings from landscape maintenance activities. Remove trash and debris Replace damaged grass and/or plants Replace surface mulch layer as needed to maintain a 2-3 inch soil cover.
After storm events	Inspect areas for ponding
Annually	Inspect/clean inlets and outlets

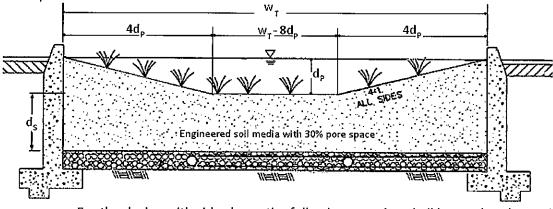
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Bioretention Facility Design Procedure

- 1) Enter the area tributary, A_T, to the Bioretention Facility.
- 2) Enter the Design Volume, V_{BMP}, determined from Section 2.1 of this Handbook.
- 3) Select the type of design used. There are two types of Bioretention Facility designs: the standard design used for most project sites that include side slopes, and the modified design used when the BMP is located perpendicular to the parking spaces or with planter boxes that do not use side slopes.
- 4) Enter the depth of the engineered soil media, d_s. The minimum depth for the engineered soil media can be 18' in limited cases, but it is recommended to use 24' or a preferred 36' to provide an adequate root zone for the chosen plant palette. Engineered soil media deeper than 36' will only get credit for the pore space in the first 36'.
- 5) Enter the top width of the Bioretention Facility.
- 6) Calculate the total effective depth, d_E, within the Bioretention Facility. The maximum allowable pore space of the soil media is 30% while the maximum allowable pore space for the gravel layer is 40%. Gravel layer deeper than 12' will only get credit for the pore space in the first 12'.



a. For the design with side slopes the following equation shall be used to determine the total effective depth. Where, d_P is the depth of ponding within the basin.

$$d_{E}(ft) = \frac{0.3 \times \left[\left(w_{T}(ft) \times d_{S}(ft) \right) + 4 \left(d_{P}(ft) \right)^{2} \right] + 0.4 \times 1(ft) + d_{P}(ft) \left[4 d_{P}(ft) + \left(w_{T}(ft) - 8 d_{P}(ft) \right) \right]}{w_{T}(ft)}$$

This above equation can be simplified if the maximum ponding depth of 0.5' is used. The equation below is used on the worksheet to find the minimum area required for the Bioretention Facility:

$$d_{\rm E}({\rm ft}) = (0.3 \times d_{\rm S}({\rm ft}) + 0.4 \times 1({\rm ft})) - \left(\frac{0.7 \, ({\rm ft}^2)}{w_{\rm T}({\rm ft})}\right) + 0.5({\rm ft})$$

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b. For the design without side slopes the following equation shall be used to determine the total effective depth:

$$d_{\rm E}({\rm ft}) = d_{\rm P}({\rm ft}) + [(0.3) \times d_{\rm S}({\rm ft}) + (0.4) \times 1({\rm ft})]$$

The equation below, using the maximum ponding depth of 0.5', is used on the worksheet to find the minimum area required for the Bioretention Facility:

$$d_{\rm E}({\rm ft}) = 0.5 \,({\rm ft}) + [(0.3) \times d_{\rm S}({\rm ft}) + (0.4) \times 1({\rm ft})]$$

 Calculate the minimum surface area, A_M, required for the Bioretention Facility. This does not include the curb surrounding the Bioretention Facility or side slopes.

$$A_{M}(ft^{2}) = \frac{V_{BMP}(ft^{3})}{d_{E}(ft)}$$

- 8) Enter the proposed surface area. This area shall not be less than the minimum required surface area.
- 9) Verify that side slopes are no steeper than 4:1 in the standard design, and are not required in the modified design.
- 10) Provide the diameter, minimum 6 inches, of the perforated underdrain used in the Bioretention Facility. See Appendix B for specific information regarding perforated pipes.
- 11) Provide the slope of the site around the Bioretention Facility, if used. The maximum slope is 3 percent for a standard design.
- 12) Provide the check dam spacing, if the site around the Bioretention Facility is sloped.
- 13) Describe the vegetation used within the Bioretention Facility.

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A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF MORENO VALLEY APPROVING PLOT PLAN APPLICATION PEN16-0113 FOR DEVELOPMENT OF A 5,430 SQUARE FOOT FULLY AUTOMATED CAR WASH WITH VACUUM STALLS ON APPROXIMATELY 1.68 ACRE SITE LOCATED ON THE NORTH SIDE OF SUNNYMEAD BOULEVARD, WEST OF HEACOCK STREET, AND SOUTH OF THE STATE HIGHWAY 60 (ASSESSOR'S PARCEL NUMBER 292-160-023)

WHEREAS, Alisam Moreno, LLC, has filed an application for the approval of Plot Plan PEN16-0113 for development of a 5,430 square foot fully automated car wash with vacuum stalls located on the north side of Sunnymead Boulevard, west of Heacock Street, and south of State Highway 60 as described in the title above; and

WHEREAS, the application has been evaluated in accordance with established City of Moreno Valley (City) procedures, and with consideration of the Municipal Code, General Plan and other applicable regulations; and

WHEREAS, upon completion of a thorough development review process the project was appropriately agendized and noticed for a public hearing before the Planning Commission of the City of Moreno Valley (Planning Commission); and

WHEREAS, the public hearing *notice* for this project was published in the local newspaper on November 24, 2017. Public notice was sent to all property owners of record within 300 feet of the project site on December 7, 2017. The public hearing notice for this project was also posted on the project site on December 8, 2017; and

WHEREAS, on December 21, 2017, the Planning Commission held a public hearing to consider the application; and

WHEREAS, all legal prerequisites to the adoption of this Resolution have occurred; and

WHEREAS, pursuant to Government Code Section 66020(d)(1), NOTICE IS HEREBY GIVEN that this project is subject to certain fees, dedications, reservations and other exactions as provided herein.

NOW, THEREFORE, BE IT RESOLVED, it is hereby found, determined and resolved by the Planning Commission as follows:

A. This Planning Commission hereby specifically finds that all of the facts set forth above in this Resolution are true and correct.

B. Based upon substantial evidence presented to this Planning Commission during the above-referenced meeting on December 21, 2017, including written and oral staff reports, public testimony and the record from the public hearing, this Planning Commission hereby specifically finds as follows:

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 Conformance with General Plan Policies – The proposed use is consistent with the General Plan, and its goals, objectives, policies and programs.

FACT: The project proposes development of a 5,430 square foot fully automated car wash with vacuum stalls on an approximately 1.68 acre site. The General Plan land use designations for the project site is Commercial (C). The proposed development is consistent with General Plan Objective 2.4, which states "provide commercial areas within the City that are conveniently located, efficient, attractive, and have safe and easy pedestrian and vehicular circulation in order to serve the retail and service commercial needs of Moreno Valley residents and businesses".

The project as designed and conditioned will achieve the objectives of the City of Moreno Valley's General Plan. The proposed project is consistent with the General Plan and does not conflict with the goals, objectives, policies, and programs established within the Plan.

2. **Conformance with Zoning Regulations –** The proposed use complies with all applicable zoning and other regulations.

FACT: The project site is currently zoned Specific Plan 204 Community Commercial (SP204CC). The primary focus of the Community Commercial (SP204CC) land use designation is to provide for the general shopping and service needs of freeway travelers, area residents and workers by providing a wide variety of travel related and local business services which include motels, gas stations, fast food and sit-down restaurants, general retail and personal uses. The Community Commercial zoning requirements of the Municipal Code apply to the project.

The fully automated car wash with vacuum stalls use is a permitted use within the CC zone, and would be compatible with surrounding development.

The project is designed in accordance with the provisions of Section 9.04 Commercial Districts, Section 9.16 Design Guidelines of the City's Municipal Code. The project as designed and conditioned would comply with all applicable zoning and other regulations.

3. Health, Safety and Welfare – The proposed use will not be detrimental to the public health, safety or welfare or materially injurious to properties or improvements in the vicinity.

FACT: The proposed fully automated car wash with vacuum stalls project as designed and conditioned will provide acceptable levels of protection from natural and man-made hazards to life, health, and property consistent with General Goal 9.6.1. The project site is located within approximately one and one half miles from Fire Station No. 2. Therefore, adequate emergency services can be provided to the site consistent with General Plan Goal 9.6.2. The project as designed and conditioned will be consistent with Specific Plan 204 Community Commercial (SP204CC) zoning.

The proposed fully automated car wash with vacuum stalls project will not be detrimental to the public health, safety or welfare or materially injurious to properties or improvements in the vicinity. Planning staff has reviewed the request in accordance with the latest edition of the California Environmental Quality Act (CEQA) Guidelines and has determined that the project is not exempt under CEQA. An Initial Study was prepared by MIG, Inc., in compliance with the California Environmental Quality Act (CEQA) Guidelines. The Initial Study examined the potential of the proposed project to have any significant impact on the environment. The Initial Study provides information in support of the finding that a Mitigated Negative Declaration is an appropriate CEQA document for the project, in that the proposed project, with the implementation of mitigation measures identified, will not have a significant effect on the environment. Therefore, the fully automated car wash with vacuum stalls project will not cause substantial environmental damage or substantially and avoidably injure fish or wildlife or their habitat.

4. Location, Design and Operation – The location, design and operation of the proposed project will be compatible with existing and planned land uses in the vicinity.

FACT: The project site is consistent with the Commercial (C) General Plan and Specific Plan 204 Community Commercial (SP204CC) zoning designations. The project surrounding land uses include existing commercial automotive uses to the west, and retail uses, including a Chevron gas station, Jack's Burgers and Jack in-the-Box fast food restaurant to the immediate east fronting on Heacock Street. The Moreno Valley Plaza and related parking lot is located to the south across Sunnymead Boulevard. The current zoning designations to the west, east, and south are Specific Plan 204 Community Commercial (SP204CC).

Overall, the design of the proposed fully automated car wash with vacuum stalls development has been found to be consistent with the objectives, goals and policies outlined in the City's General Plan, as well as being compatible with the existing and planned land uses in the project area.

This project, as designed conforms to all development standards of the Specific Plan 204 Community Commercial (SP204CC) zone and the design guidelines for commercial developments prescribed in the City's Municipal Code and City Landscape Standards.

The architectural design of the car wash building provides variation in roof line, material, and color. The building has a contemporary style with a flat roof, faux windows on the east and west elevations, and two tower elements at the entrance and exit to the car wash. Building exterior finishes include a blend of earth tones for the stone veneer, paint colors, metal fascia, striped canvas awnings, and a clay tile roof for the car wash entrance and exit tower elements. As designed and conditioned the proposed fully automated car wash with vacuum stalls project is compatible with existing and proposed land uses in the vicinity.

FEES, DEDICATIONS, RESERVATIONS, AND OTHER EXACTIONS

1. FEES

Impact, mitigation and other fees are due and payable under currently applicable ordinances and resolutions. These fees may include but are not limited to: Development Impact Fee, Transportation Uniform Mitigation Fee (TUMF), Multi-species Habitat Conservation Plan (MSHCP) Mitigation Fee, Stephens Kangaroo Habitat Conservation fee, Underground Utilities in lieu Fee, Area Drainage Plan fee, Bridge and Thoroughfare Mitigation fee (Future) and Traffic Signal Mitigation fee. The final amount of fees payable is dependent upon information provided by the applicant and will be determined at the time the fees become due and payable.

Unless otherwise provided for by this Resolution, all impact fees shall be calculated and collected at the time and in the manner provided in Chapter 3.32 of the City of Moreno Valley Municipal Code or as so provided in the applicable ordinances and resolutions. The City expressly reserves the right to amend the fees and the fee calculations consistent with applicable law.

2. DEDICATIONS, RESERVATIONS, AND OTHER EXACTIONS

The adopted Conditions of Approval for PEN16-0113, incorporated herein by reference, may include dedications, reservations, and exactions pursuant to Government Code Section 66020 (d) (1).

3. CITY RIGHT TO MODIFY/ADJUST; PROTEST LIMITATIONS

The City expressly reserves the right to establish, modify or adjust any fee, dedication, reservation or other exaction to the extent permitted and as authorized by law.

Pursuant to Government Code Section 66020(d)(1), NOTICE IS FURTHER GIVEN that the 90 day period to protest the imposition of any impact fee, dedication, reservation, or other exaction described in this Resolution begins on the effective date of this Resolution and any such protest must be in a manner that complies with Section 66020(a) and failure to timely follow this procedure will bar any subsequent legal action to attack, review, set aside, void or annul imposition.

Attachment: Resolution 2017-45 [Revision 3] (2913 : PEN16-0113 Plot Plan)

The right to protest the fees, dedications, reservations, or other exactions does not apply to planning, zoning, grading, or other similar application processing fees or service fees in connection with this project and it does not apply to any fees, dedication, reservations, or other exactions of which a notice has been given similar to this, nor does it revive challenges to any fees for which the applicable statute of limitations has previously expired.

BE IT FURTHER RESOLVED that the Planning Commission **HEREBY APPROVES** Resolution No. 2017- 45, and thereby:

1. **APPROVES** Plot Plan PEN16-0113 based on the findings contained in this resolution, and subject to the attached conditions of approval included as Exhibit A.

APPROVED this 21st day of December, 2017.

AYES: NOES: ABSTAIN:

> Jeffrey Barnes Chair, Planning Commission

ATTEST:

Richard J. Sandzimier, Planning Official Secretary to the Planning Commission

APPROVED AS TO FORM:

City Attorney

Exhibit A

CITY OF MORENO VALLEY CONDITIONS OF APPROVAL Plot Plan (PEN16-0113)

EFFECTIVE DATE: EXPIRATION DATE:

COMMUNITY DEVELOPMENT DEPARTMENT

Planning Division

- 1. Any expansion to this use or exterior alterations will require the submittal of a separate application(s) and shall be reviewed and approved under separate permit(s). (MC 9.02.080)
- 2. The developer, or the developer's successor-in-interest, shall be responsible for maintaining any undeveloped portion of the site in a manner that provides for the control of weeds, erosion and dust. (MC 9.02.030)
- 3. This approval shall expire three years after the approval date of this project unless used or extended as provided for by the City of Moreno Valley Municipal Code. (MC 9.02.230)
- 4. All landscaped areas shall be maintained in a healthy and thriving condition, free from weeds, trash and debris. (MC 9.02.030)
- 5. The site shall be developed in accordance with the approved plans on file in the Community Development Department - Planning Division, the Municipal Code regulations, General Plan, and the conditions contained herein. Prior to any use of the project site or business activity being commenced thereon, all Conditions of Approval shall be completed to the satisfaction of the Planning Official. (MC 9.14.020)
- 6. Any signs indicated on the submitted plans are not included with this approval. Any signs, whether permanent (e.g. wall, monument) or temporary (e.g. banner, flag), require separate application and approval by the Planning Division. No signs are permitted in the public right of way. (MC 9.12)
- 7. All site plans, grading plans, landscape and irrigation plans, fence/wall plans, lighting plans and street improvement plans shall be coordinated for consistency with this approval.

Special Conditions

- 8. Plot Plan PEN16-0113 has been approved for the development of a 5,430 square foot fully automated car wash with vacuum stalls project with thirty-nine parking spaces on a 1.68 acre site. The project site is comprised of one parcel, Assessor's Parcel Number 292-160-023 located on the North side of Sunnymead Boulevard, west of Heacock Street, south of State Highway 60. The project as designed is consistent with the City's General Plan and the Municipal Code. A change or modification shall require separate approval.
- BIO-1 All project sites containing burrowing owl habitat or burrows (based on Step 1 – Habitat Assessment) whether owls were found or not, require pre-construction surveys that shall be conducted within 14 days prior to ground disturbance to avoid direct take of burrowing owls.
- 10. BIO-2 To avoid impacts to nesting birds, construction activities and construction noise should occur outside the avian nesting season (February 1 to September 1). If construction occurs within the avian nesting season, all suitable habitats shall be thoroughly surveyed for the presence of nests by a qualified biologist no more than five days prior to commencement of any soil disturbance or vegetation removal. If it is determined that the project site is occupied by nesting birds, Mitigation Measure BIO-3 would reduce impacts to less than significant levels.
- 11. BIO-3 If pre-construction nesting bird surveys locate active nests, no construction-related activities shall "take" place within 300 feet of sensitive bird nests and 500 feet of raptor nests, or as determined by a qualified biologist. Protective measures (e.g., sampling) shall be required to ensure compliance with the MBTA and relevant California Fish and Game Code requirements.
- 12. CR-1 Prior to the issuance of a grading permit, the City shall retain a professional archaeologist to conduct monitoring of all mass grading and trenching activities. The Project Archaeologist shall have the authority to temporarily redirect earthmoving activities in the event that suspected archaeological resources are unearthed during Project construction. The Project Archaeologist, in consultation with the Consulting Tribe(s), the contractor, and the City, shall develop a Cultural Resources Management Plan (CRMP) in consultation pursuant to the definition in AB52 to address the details, timing and responsibility of all archaeological and cultural activities that will occur on the project site. A consulting tribe is defined as a tribe that initiated the AB 52 tribal consultation process for the Project, has not opted out of the AB52 consultation process, and has completed AB 52 consultation with the City as provided for in Cal Pub Res Code Section 21080.3.2(b)(1) of AB52. Details in the Plan shall include:
 - a. Project grading and development scheduling;

b. The Project archeologist and the Consulting Tribes(s) as defined in CR-1 shall attend the pre-grading meeting with the City, the construction manager and any

contractors and will conduct a mandatory Cultural Resources Worker Sensitivity Training to those in attendance. The Training will include a brief review of the cultural sensitivity of the Project and the surrounding area; what resources could potentially be identified during earthmoving activities; the requirements of the monitoring program; the protocols that apply in the event inadvertent discoveries of cultural resources are identified, including who to contact and appropriate avoidance measures until the find(s) can be properly evaluated; and any other appropriate protocols. All new construction personnel that will conduct earthwork or grading activities that begin work on the Project following the initial Training must take the Cultural Sensitivity Training prior to beginning work and the Project archaeologist and Consulting Tribe(s) shall make themselves available to provide the training on an as-needed basis;

c. The protocols and stipulations that the contractor, City, Consulting Tribe(s) and Project archaeologist will follow in the event of inadvertent cultural resources discoveries, including any newly discovered cultural resource deposits that shall be subject to a cultural resources evaluation.

- 13. CR-2 Prior to the issuance of a grading permit, the City of Moreno Valley shall secure agreements with the Pechanga Band of Luiseño Indians and Soboba Band of Luiseño Indians for tribal monitoring. The City is also required to provide a minimum of 30 days advance notice to the tribes of all mass grading and trenching activities. The Native American Tribal Representatives shall have the authority to temporarily halt and redirect earth moving activities in the affected area in the event that suspected archaeological resources are unearthed. If the Native American Tribal Representatives suspect that an archaeological resource may have been unearthed. the Project Archaeologist or the Tribal Representatives shall immediately redirect grading operations in a 100-foot radius around the find to allow identification and evaluation of the suspected resource. In consultation with the Native American Tribal Representatives, the Project Archaeologist shall evaluate the suspected resource and make a determination of significance pursuant to California Public Resources Code Section 21083.2.
- 14. CR-3 In the event that Native American cultural resources are discovered during the course of grading (inadvertent discoveries), the following procedures shall be carried out for final disposition of the discoveries:

a) One or more of the following treatments, in order of preference, shall be employed with the tribes. Evidence of such shall be provided to the City of Moreno Valley Planning Department:

i. Preservation-In-Place of the cultural resources, if feasible. Preservation in place means avoiding the resources, leaving them in the place they were found with no development affecting the integrity of the resources. ii. Onsite reburial of the discovered items as detailed in the treatment plan required pursuant to Mitigation Measure CR-1. This shall include measures and provisions to protect the future reburial area from any future impacts in perpetuity. Reburial shall not occur until all legally required cataloging and basic recordation have been completed. No recordation of sacred items is permitted without the written consent of all Consulting Native American Tribal Governments as defined in CR-1.

- 15. CR-4 The City shall verify that the following note is included on the Grading Plan: "If any suspected archaeological resources are discovered during ground-disturbing activities and the Project Archaeologist or Native American Tribal Representatives are not present, the construction supervisor is obligated to halt work in a 100-foot radius around the find and call the Project Archaeologist and the Tribal Representatives to the site to assess the significance of the find."
- 16. CR-5 The Project Applicant shall provide evidence to the City of Moreno Valley that a qualified paleontologist has been retained by the Project Applicant to conduct monitoring of excavation activities and has the authority to halt and redirect earthmoving activities in the event that suspected paleontological resources are unearthed.
- 17. CR-6 The paleontological monitor shall conduct full-time monitoring during grading and excavation operations in undisturbed, very old alluvial fan sediments and shall be equipped to salvage fossils if they are unearthed to avoid construction delays and to remove samples of sediments that are likely to contain the remains of small fossil invertebrates and vertebrates. The paleontological monitor shall be empowered to temporarily halt or divert equipment to allow of removal of abundant and large specimens in a timely manner. Monitoring may be reduced if the potentially fossiliferous units are not present in the subsurface, or if present, are determined upon exposure and examination by qualified paleontological personnel to have a low potential to contain or yield fossil resources.
- 18. CR-7 Recovered specimens shall be properly prepared to a point of identification and permanent preservation, including screen washing sediments to recover small invertebrates and vertebrates, if necessary. Identification and curation of specimens into a professional, accredited public museum repository with a commitment to archival conservation and permanent retrievable storage, such as the Western Science Museum in Hemet, California, is required for significant discoveries.
- 19. CR-8 A final monitoring and mitigation report of findings and significance shall be prepared, including lists of all fossils recovered, if any, and necessary maps and graphics to accurately record the original location of the specimens. The report shall be submitted to the City of Moreno Valley prior to building final.

20. N-1 The following measures are required to ensure that project-related short-term construction noise levels are reduced to less-than-significant levels. Prior to issuance of demolition permits, a noise mitigation plan verifying that compliance with the following measures would reduce construction noise to within the allowable levels of 65 dBA for commercial uses. Should construction noise exceed allowable levels after implementation of the following measures, the use of sound curtains or other noise barriers shall be required. The noise mitigation plan shall identify the type and location of sound curtains or other noise barriers to be utilized to reduce construction noise to within allowable levels.

• Stationary construction noise sources such as generators or pumps must be located at least 100 feet from sensitive land uses, as feasible, or at maximum distance when necessary to complete work near sensitive land uses. This mitigation measure must be implemented throughout construction and may be periodically monitored by a contracted noise monitor. Datasheets completed by the contracted construction noise monitor may be submitted to the Planning Official, or designee during routine inspections.

• Construction staging areas must be located as far from noise sensitive land uses as feasible. This mitigation measure must be implemented throughout construction and may be periodically monitored by a contracted construction noise monitor, by the Planning Official or designee during routine inspections.

• Throughout construction, the contractor shall ensure all construction equipment is equipped with included noise attenuating devices and are properly maintained. This mitigation measure shall be periodically monitored by a contracted construction noise monitor, the Community Planning Official, or designee during routine inspections.

• Idling equipment must be turned off when not in use. This mitigation measure may be periodically monitored by a contracted construction noise monitor the Planning Official, or designee during routine inspections.

• Equipment must be maintained so that vehicles and their loads are secured from rattling and banging. This mitigation measure may be periodically monitored by a contracted construction noise monitor, the Planning Official, or designee during routine inspections.

21. N-2 The following measures are required to ensure that project-related operational noise levels are reduced to less-than-significant levels.

• In order for operational noise levels to comply with the City's ordinance, the height of the tunnel entry and exit openings shall be limited to no more than 10 feet and the east wall of the tunnel shall extend 30 feet northward and southward at a

height of 10 feet to provide adequate shielding and reduce property line sound levels to 65 dB.

• In order to provide adequate of sound attenuation, two sound barrier walls will be constructed at the east side of the wash tunnel entry to the south and exit to the north. At a height of 10 feet, the sound barriers shall extend 30 feet northward from the northwest corner of the building and 30 feet southward from the southwest corner of the building at a height of 10 feet. The western surface of the extended wall at the south (entrance) shall be treated with outdoor sound absorbing material, such as IAC Noise-Foil panels. The material could be any impervious construction with a surface density of at least 2 pounds per square foot. The eastern face of both walls shall be treated with sound absorbing surface material with NRC 0.7 or greater. Along the west side of the site, the existing barrier will provide adequate shielding from the vacuum equipment to reduce levels to below 65 dB at the commercial/industrial uses and to well below 60 dB at the residences further west.

22. CR-9 If potential historic or cultural resources are uncovered during excavation or construction activities at the project site, work in the affected area must cease immediately and a qualified person meeting the Secretary of the Interior's standards (36 CFR 61), Tribal Representatives, and all site monitors per the Mitigation Measures, shall be consulted by the City to evaluate the find, and as appropriate recommend alternative measures to avoid, minimize or mitigate negative effects on the historic, or prehistoric resource. Determinations and recommendations by the consultant shall be immediately submitted to the Planning Division for consideration, and implemented as deemed appropriate by the Community Development Director, in consultation with the State Historic Preservation Officer (SHPO) and any and all Consulting Native American Tribes as defined in CR-1 before any further work commences in the affected area.

If human remains are discovered, no further disturbance shall occur in the affected area until the County Coroner has made necessary findings as to origin. If the County Coroner determines that the remains are potentially Native American, the California Native American Heritage Commission shall be notified within 5-days of the published finding to be given a reasonable opportunity to identify the "most likelv descendant." The "most likely descendant" shall then make recommendations, and engage in consultations concerning the treatment of the remains (California Public Resources Code 5097.98).(GP Objective 23.3, CEQA).

23. Prior to issuance of grading permits, the developer shall remove the existing billboard and freeway sign on the northern portion of the site.

Prior to Building Permit

- 24. Prior to the issuance of building permits, the developer shall provide documentation that contact was made to the U.S. Postal Service to determine the appropriate type and location of mailboxes.
- 25. Prior to the issuance of building permits, covered trash enclosure(s) shall be included in the building plans or the Building submittal of the Fence and Wall plans. The trash enclosure(s), including the roof materials, shall be compatible with the architecture, color and materials of the building(s) design. Trash enclosure areas shall include landscaping on three sides. (GP Objective 43.6, DG)
- 26. Prior to issuance of any building permits, final landscaping and irrigation plans shall be submitted for review and approved by the Planning Division. After the third plan check review for landscape plans, an additional plan check fee shall apply. The plans shall be prepared in accordance with the City's Landscape Requirements and shall include:

A. A three (3) foot high decorative wall, solid hedge or berm shall be placed in any setback areas between a public right of way and a parking lot for screening.

B. Finger and end planters with required step outs and curbing shall be provided every 12 parking stalls as well as at the terminus of each aisle.

C. Drought tolerant landscape shall be used. Sod shall be limited to gathering areas. (or No sod shall be installed)

D. Street trees shall be provided every 40 feet on center in the right of way.

E. On-site trees shall be planted at an equivalent of one (1) tree per thirty (30) linear feet of the perimeter of a parking lot and per thirty linear feet of a building dimension for the portions of the building visible from a parking lot or right of way. Trees may be massed for pleasing aesthetic effects.

F. Enhanced landscaping shall be provided at all driveway entries and street corner locations. The review of all utility boxes, transformers etc. shall be coordinated to provide adequate screening from public view.

G. Landscaping on three sides of any trash enclosure.

H. All site perimeter and parking lot landscape and irrigation shall be installed prior to the release of certificate of any occupancy permits for the site.

27. Prior to issuance of building permits, the Planning Division shall review and approve the location and method of enclosure or screening of transformer cabinets, commercial gas meters and back flow preventers as shown on the final working drawings. Location and screening shall comply with the following criteria: transformer cabinets and commercial gas meters shall not be located within required setbacks and shall be screened from public view either by architectural treatment or landscaping; multiple electrical meters shall be fully enclosed and incorporated into the overall architectural design of the building(s); back-flow preventers shall be screened by landscaping. (GP Objective 43.30)

- 28. Prior to issuance of a building permit, the developer/property owner or developer's successor-in-interest shall pay all applicable impact fees due at permit issuance, including but not limited to Multi-species Habitat Conservation Plan (MSHCP) mitigation fees. (Ord)
- 29. Prior to buildina final. the developer/owner developer's/owner's or successor-in-interest shall pay all applicable impact fees, including but not limited to the City's Transportation Uniform Mitigation fees (TUMF), and adopted Development Impact Fees. (Ord)
- 30. Prior to or at building plan check submittal, two copies of a detailed, on-site, computer generated, point-by-point comparison lighting plan, including exterior building, parking lot, and landscaping lighting, shall be submitted to the Planning Division for review and approval prior to the issuance of a building permit. The lighting plan shall be generated on the plot plan and shall be integrated with the final landscape plan. The plan shall indicate the manufacturer's specifications for light fixtures used, shall include style, illumination, location, height and method of shielding per the City's Municipal Code requirements. After the third plan check review for lighting plans, an additional plan check fee will apply. (MC 9.08.100, 9.16.280)
- 31. Prior to issuance of building permits, screening details shall be addressed on the building plans for roof top equipment submitted for Planning Division review and approval through the building plan check process. All equipment shall be completely screened so as not to be visible from public view, and the screening shall be an integral part of the building.
- 32. Prior to issuance of grading permits, the developer shall submit wall/fence plans to the Planning Division for review and approval as follows:

A. A maximum 6 foot high decorative wrought iron fence with 6 foot high decorative block pilasters and a cap shall be required on the east property line.

B. Any proposed retaining walls shall also be decorative in nature, while the combination of retaining and other walls on top shall not exceed the height requirement.

33. Prior to the issuance of grading permits, a temporary project identification sign shall

2.0

be erected on the site in a secure and visible manner. The sign shall be conspicuously posted at the site and remain in place until occupancy of the project. The sign shall include the following:

a. The name (if applicable) and address of the development.

b. The developer's name, address, and a 24-hour emergency telephone number.

- 34. Prior to issuance of grading permits, the location of the trash enclosure shall be included on the plans.
- 35. Prior to issuance of grading permits, the developer shall pay the applicable Stephens' Kangaroo Rat (SKR) Habitat Conservation Plan mitigation fee. (Ord)
- 36. Prior to issuance of any grading permits, mitigation measures contained in the Mitigation Monitoring Program approved with this project shall be implemented as provided therein. A mitigation monitoring fee, as provided by City ordinance, shall be paid by the applicant within 30 days of project approval. No City permit or approval shall be issued until such fee is paid. (CEQA)

Prior to Building Final or Occupancy

- Prior to building final, all required landscaping and irrigation shall be installed per plan, certified by the Landscape Architect and inspected by the Planning Division. (MC 9.03.040, MC 9.17).
- 38. Prior to building final, Planning approved/stamped landscape plans shall be provided to the Community Development Department Planning Division on a CD disk.
- 39. Prior to building final, all required and proposed fences and walls shall be constructed according to the approved plans on file in the Planning Division. (MC 9.080.070).

Building Division

- 40. Any construction within the city shall only be completed between the hour of seven a.m. to seven p.m. Monday through Friday, excluding holidays and from eight a.m. to four p.m. on Saturday, unless written approval is obtained from the city building official or city engineer (Municipal Code Section 8.14.040.E).
- 41. All new structures shall be designed in conformance to the latest design standards adopted by the State of California in the California Building Standards Code

(California Code of Regulations, Title 24) including requirements for allowable area, occupancy separations, fire suppression systems, accessibility, etc. The current edition of the building code standard is the 2016 Triennial Edition.

- 42. The proposed non-residential project shall comply with the latest Federal Law, Americans with Disabilities Act, and State Law, California Code of Regulations, Title 24, Chapter 11B for accessibility standards for the disabled including access to the site, exits, bathrooms, work spaces, etc.
- 43. Prior to submittal, all new development, including residential second units, are required to obtain a valid property address prior to permit application. Addresses can be obtained by contacting the Building Safety Division at 951.413.3350.
- 44. Contact the Building Safety Division for permit application submittal requirements.
- 45. Building plans submitted shall be signed and sealed by a California licensed design professional as required by the State Business and Professions Code.
- 46. The proposed development is subject to the payment of applicable processing fees as required by the City's current Fee Ordinance at the time a building permit application is submitted or prior to the issuance of permits as determined by the City.
- 47. The proposed project will be subject to approval by the Eastern Municipal Water District and all applicable fees and charges shall be paid prior to permit issuance. Contact the water district at 951.928.3777 for specific details.
- 48. The proposed non-residential project shall comply with 2016 California Green Building Standards Code, Section 5.106.5.3, mandatory requirements for Electric Vehicle Charging Station (EVCS).
- 49. The proposed project's occupancy shall be classified by the Building Official and must comply with exiting, occupancy separation(s) and minimum plumbing fixture requirements of the 2016 California Plumbing Code Table 4-1.
- 50. Prior to permit issuance, every applicant shall submit a properly completed Waste Management Plan (WMP), as a portion of the building or demolition permit process. (MC 8.80.030)

ECONOMIC DEVELOPMENT DEPARTMENT (EDD)

- 51. New Moreno Valley businesses may work with the Economic Development Department to coordinate job recruitment fairs.
- 52. New Moreno Valley businesses may adopt a "First Source" approach to

employee recruitment that gives notice of job openings to Moreno Valley residents for one week in advance of the public recruitment.

- 53. New Moreno Valley businesses are encouraged to hire local residents.
- 54. New Moreno Valley businesses are encouraged to provide a job fair flyer and/or web announcement to the City in advance of job recruitments, so that the City can assist in publicizing these events.
- 55. New Moreno Valley businesses may utilize the workforce recruitment services provided by the Moreno Valley Employment Resource Center ("ERC").

The ERC offers no cost assistance to businesses recruiting and training potential employees. Complimentary services include:

- Job Announcements
- Applicant testing / pre-screening
- Interviewing
- Job Fair support
- Training space

FIRE DEPARTMENT

Fire Prevention Bureau

- 56. Prior to issuance of Certificate of Occupancy or Building Final, all commercial buildings shall display street numbers in a prominent location on the street side and rear access locations. The numerals shall be a minimum of twelve inches in height. (CFC 505.1, MVMC 8.36.060[I])
- 57. Prior to issuance of Certificate of Occupancy, approval shall be required from the County of Riverside Community Health Agency (Department of Environmental Health) and Moreno Valley Fire Prevention Bureau to maintain, store, use, handle materials, or conduct processes which produce conditions hazardous to life or property, and to install equipment used in connection with such activities. (CFC 105)
- 58. All Fire Department access roads or driveways shall not exceed 12 percent grade. (CFC 503.2.7 and MVMC 8.36.060[G])
- 59. The Fire Department emergency vehicular access road shall be (all weather surface) capable of sustaining an imposed load of 80,000 lbs. GVW, based on street standards approved by the Public Works Director and the Fire Prevention Bureau. The approved fire access road shall be in place during the time of

construction. Temporary fire access roads shall be approved by the Fire Prevention Bureau. (CFC 501.4, and MV City Standard Engineering Plan 108d)

- 60. The angle of approach and departure for any means of Fire Department access shall not exceed 1 ft drop in 20 ft (0.3 m drop in 6 m), and the design limitations of the fire apparatus of the Fire Department shall be subject to approval by the AHJ. (CFC 503 and MVMC 8.36.060)
- 61. Prior to construction, all locations where structures are to be built shall have an approved Fire Department access based on street standards approved by the Public Works Director and the Fire Prevention Bureau. (CFC 501.4)
- 62. Prior to issuance of Building Permits, the applicant/developer shall provide the Fire Prevention Bureau with an approved site plan for Fire Lanes and signage. (CFC 501.3)
- 63. Prior to issuance of Certificate of Occupancy or Building Final, "Blue Reflective Markers" shall be installed to identify fire hydrant locations in accordance with City specifications. (CFC 509.1 and MVLT 440A-0 through MVLT 440C-0)
- 64. Existing fire hydrants on public streets are allowed to be considered available. Existing fire hydrants on adjacent properties shall not be considered available unless fire apparatus access roads extend between properties and easements are established to prevent obstruction of such roads. (CFC 507, 501.3) a After the local water company signs the plans, the originals shall be presented to the Fire Prevention Bureau for signatures. The required water system, including fire hydrants, shall be installed, made serviceable, and be accepted by the Moreno Valley Fire Department prior to beginning construction. They shall be maintained accessible.
- 65. Final fire and life safety conditions will be addressed when the Fire Prevention Bureau reviews building plans. These conditions will be based on occupancy, use, California Building Code (CBC), California Fire Code (CFC), and related codes, which are in effect at the time of building plan submittal.
- 66. The Fire Code Official is authorized to enforce the fire safety during construction requirements of Chapter 33. (CFC Chapter 33 & CBC Chapter 33)
- 67. Fire lanes and fire apparatus access roads shall have an unobstructed width of not less than twenty-four (24) feet as approved by the Fire Prevention Bureau and an unobstructed vertical clearance of not less the thirteen (13) feet six (6) inches. (CFC 503.2.1 and MVMC 8.36.060[E])
- 68. Prior to issuance of the building permit for development, independent paved access to the nearest paved road, maintained by the City shall be designed and

constructed by the developer within the public right of way in accordance with City Standards. (MVMC 8.36.060, CFC 501.4)

- 69. Prior to issuance of a Certificate of Occupancy or Building Final, a "Knox Box Rapid Entry System" shall be provided. The Knox-Box shall be installed in an accessible location approved by the Fire Code Official. All exterior security emergency access gates shall be electronically operated and be provided with Knox key switches for access by emergency personnel. (CFC 506.1)
- 70. The minimum number of fire hydrants required, as well as the location and spacing of fire hydrants, shall comply with the C.F.C., MVMC, and NFPA 24. Fire hydrants shall be located no closer than 40 feet to a building. A fire hydrant shall be located within 50 feet of the fire department connection for buildings protected with a fire sprinkler system. The size and number of outlets required for the approved fire hydrants are (6" x 4" x 2 ½" x 2 ½") (CFC 507.5.1, 507.5.7, Appendix C, NFPA 24-7.2.3, MVMC 912.2.1)
- 71. Fire Department access driveways over 150 feet in length shall have a turn-around as determined by the Fire Prevention Bureau capable of accommodating fire apparatus. (CFC 503 and MVMC 8.36.060, CFC 501.4)
- 72. During phased construction, dead end roadways and streets which have not been completed shall have a turn-around capable of accommodating fire apparatus. (CFC 503.1 and 503.2.5)
- 73. If construction is phased, each phase shall provide an approved emergency vehicular access way for fire protection prior to any building construction. (CFC 501.4)
- 74. Plans for private water mains supplying fire sprinkler systems and/or private fire hydrants shall be submitted to the Fire Prevention Bureau for approval. (CFC 105 and CFC 3312.1)
- 75. The Fire Prevention Bureau is required to set a minimum fire flow for the remodel or construction of all commercial buildings per CFC Appendix B and Table B105.1. The applicant/developer shall provide documentation to show there exists a water system capable of delivering said waterflow for 2 hour(s) duration at 20-PSI residual operating pressure. The required fire flow may be adjusted during the approval process to reflect changes in design, construction type, or automatic fire protection measures as approved by the Fire Prevention Bureau. Specific requirements for the project will be determined at time of submittal. (CFC 507.3, Appendix B)
- 76. Prior to construction, all traffic calming designs/devices must be approved by the Fire Marshal and City Engineer.

- 77. Prior to building construction, dead end roadways and streets which have not been completed shall have a turnaround capable of accommodating fire apparatus. (CFC 503.2.5)
- 78. Prior to issuance of Building Permits, the applicant/developer shall furnish one copy of the water system plans to the Fire Prevention Bureau for review. Plans shall: a. Be signed by a registered civil engineer or a certified fire protection engineer; b. Contain a Fire Prevention Bureau approval signature block; and c. Conform to hydrant type, location, spacing of new and existing hydrants and minimum fire flow required as determined by the Fire Prevention Bureau. The required water system, including fire hydrants, shall be installed, made serviceable, and be accepted by the Moreno Valley Fire Department prior to beginning construction. They shall be maintained accessible.

PUBLIC WORKS DEPARTMENT

Land Development

- 79. A digital (pdf) copy of all approved improvement plans shall be submitted to the Land Development Division.
- 80. All applicable inspection fees shall be paid.
- 81. All work performed within public right-of-way requires an encroachment permit. Security (in the form of a cash deposit or other approved means) may be required as determined by the City Engineer. For non-subdivision projects, the City Engineer may require the execution of a Public Improvement Agreement (PIA) as a condition of the issuance of a construction or encroachment permit. All inspection fees shall be paid prior to issuance of construction permit. [MC 9.14.100(C.4)]
- 82. The developer shall comply with all applicable City ordinances and resolutions including the City's Municipal Code (MC) and if subdividing land, the Government Code (GC) of the State of California, specifically Sections 66410 through 66499.58, said sections also referred to as the Subdivision Map Act (SMA). [MC 9.14.010]
- 83. The final approved conditions of approval (COAs) and any applicable Mitigation Measures issued by the Planning Division shall be photographically or electronically placed on mylar sheets and included in the Grading and Street Improvement plans.
- 84. The developer shall monitor, supervise and control all construction and construction supportive activities, so as to prevent these activities from causing a public nuisance, including but not limited to, insuring strict adherence to the following:
 (a) Removal of dirt, debris, or other construction material deposited on any public

(a) Removal of dirt, debris, or other construction material deposited on any public street no later than the end of each working day.

(b) Observance of working hours as stipulated on permits issued by the Land Development Division.

(c) The construction site shall accommodate the parking of all motor vehicles used by persons working at or providing deliveries to the site.

(d) All dust control measures per South Coast Air Quality Management District (SCAQMD) requirements during the grading operations.

Violation of any condition, restriction or prohibition set forth in these conditions shall subject the owner, applicant, developer or contractor(s) to remedy as noted in City Municipal Code 8.14.090. In addition, the City Engineer or Building Official may suspend all construction related activities for violation of any condition, restriction or prohibition set forth in these conditions until such time as it has been determined that all operations and activities are in conformance with these conditions.

- 85. Prior to any plan approval, a final detailed drainage study (prepared by a registered/licensed civil engineer) shall be submitted for review and approved by the City Engineer. The study shall include existing and proposed hydrologic conditions as well as hydraulic calculations for all drainage control devices and storm drain lines. [MC 9.14.110(A.1)]. A digital (pdf) copy of the approved drainage study shall be submitted to the Land Development Division.
- 86. The developer shall protect downstream properties from damage caused by alteration of drainage patterns (i.e. concentration or diversion of flow, etc). Protection shall be provided by constructing adequate drainage facilities, including, but not limited to, modifying existing facilities or by securing a drainage easement. [MC 9.14.110]

Prior to Grading Plan Approval

- 87. Resolution of all drainage issues shall be as approved by the City Engineer.
- 88. Two (2) copies of the final project-specific Water Quality Management Plan (WQMP) shall be submitted for review and approved by the City Engineer, which:

a. Addresses Site Design Best Management Practices (BMPs) such as minimizing impervious areas, maximizing permeability, minimizes directly connected impervious areas to the City's street and storm drain systems, and conserves natural areas;

b. Incorporates Source Control BMPs and provides a detailed description of their implementation;

c. Describes the long-term operation and maintenance requirements for BMPs requiring maintenance; and

d. Describes the mechanism for funding the long-term operation and maintenance of the BMPs.

A copy of the final WQMP template can be obtained on the City's Website or by contacting the Land Development Division. A digital (pdf) copy of the approved

final project-specific Water Quality Management Plan (WQMP) shall be submitted to the Land Development Division.

89. The developer shall ensure compliance with the City Grading ordinance, these Conditions of Approval and the following criteria:

a. The project street and lot grading shall be designed in a manner that perpetuates the existing natural drainage patterns with respect to tributary drainage area and outlet points. Unless otherwise approved by the City Engineer, lot lines shall be located at the top of slopes.

b. Any grading that creates cut or fill slopes adjacent to the street shall provide erosion control, sight distance control, and slope easements as approved by the City Engineer.

c. All improvement plans are substantially complete and appropriate clearance letters are provided to the City.

d. A soils/geotechnical report (addressing the soil's stability and geological conditions of the site) shall be submitted to the Land Development Division for review. A digital (pdf) copy of the soils/geotechnical report shall be submitted to the Land Development Division.

- 90. Grading plans (prepared by a registered/licensed civil engineer) shall be submitted for review and approved by the City Engineer per the current submittal requirements.
- 91. The developer shall select Low Impact Development (LID) Best Management Practices (BMPs) designed per the latest version of the Water Quality Management Plan (WQMP) - a guidance document for the Santa Ana region of Riverside County.
- 92. The developer shall pay all remaining plan check fees.
- 93. A Storm Water Pollution Prevention Plan (SWPPP) shall be prepared in conformance with the State's current Construction Activities Storm Water General Permit. A copy of the current SWPPP shall be kept at the project site and be available for review upon request.
- 94. For projects that will result in discharges of storm water associated with construction with a soil disturbance of one or more acres of land, the developer shall submit a Notice of Intent (NOI) and obtain a Waste Discharger's Identification number (WDID#) from the State Water Quality Control Board (SWQCB) which shall be noted on the grading plans.
- 95. Landscape & Irrigation plans (prepared by a registered/licensed civil engineer) for water quality BMPs shall be submitted for review and approved by the City Engineer per the current submittal requirements, if applicable.

Prior to Grading Permit

- 96. A digital (pdf) copy of all approved grading plans shall be submitted to the Land Development Division.
- 97. Security, in the form of a cash deposit (preferable), or letter of credit shall be submitted as a guarantee of the implementation and maintenance of erosion control measures. At least twenty-five (25) percent of the required security shall be in the form of a cash deposit with the City. [MC 8.21.160(H)]
- 98. Security, in the form of a cash deposit (preferable), or letter of credit shall be submitted as a guarantee of the completion of the grading operations for the project. [MC 8.21.070]
- 99. The developer shall pay all applicable inspection fees.
- 100. A receipt showing payment of the Area Drainage Plan (ADP) fee to Riverside County Flood Control and Water Conservation District shall be submitted. [MC 9.14.100(O)]

Prior to Improvement Plan Approval

- 101. The developer is required to bring any existing access ramps adjacent to and fronting the project to current ADA (Americans with Disabilities Act) requirements. However, when work is required in an intersection that involves or impacts existing access ramps, all access ramps in that intersection shall be retrofitted to comply with current ADA requirements, unless otherwise approved by the City Engineer.
- 102. The developer shall submit clearances from all applicable agencies, and pay all applicable plan check fees.
- 103. The street improvement plans shall comply with current City policies, plans and applicable City standards (i.e. MVSI-160 series, etc.) throughout this project.
- 104. Drainage facilities (i.e. catch basins, etc.) with sump conditions shall be designed to convey the tributary 100-year storm flows. Secondary emergency escape shall also be provided.
- 105. The hydrology study shall be designed to accept and properly convey all off-site drainage flowing onto or through the site. All storm drain design and improvements shall be submitted for review and approved of the City Engineer. In the event that the City Engineer permits the use of streets for drainage purposes, the provisions of current City standards shall apply. Should the quantities exceed the street capacity or the use of streets be prohibited for drainage purposes, as in the case where one

travel lane in each direction shall not be used for drainage conveyance for emergency vehicle access on streets classified as minor arterials and greater, the developer shall provide adequate facilities as approved by the City Engineer. [MC 9.14.110 A.2]

- 106. All public improvement plans (prepared by a licensed/registered civil engineer) shall be submitted for review and approved by the City Engineer per the current submittal requirements.
- 107. For non-subdivision projects, all street dedications shall be free of encumbrances, irrevocably offered to the public and shall continue in force until the City accepts or abandons such offers, unless otherwise approved by the City Engineer.
- 108. The plans shall indicate any restrictions on trench repair pavement cuts to reflect the City's moratorium on disturbing newly-constructed pavement less than three (3) years old and recently slurry sealed streets less than one (1) year old. Pavement cuts for trench repairs may be allowed for emergency repairs or as specifically approved by the City Engineer.
- 109. The developer shall pothole to determine the exact location and elevation of existing underground utilities and incorporate the results into the design of the plans. The developer shall coordinate with all affected utility companies and bear all costs of utility relocations.

Prior to Building Permit

- 110. An engineered-fill certification, rough grade certification and compaction report shall be submitted for review and approved by the City Engineer. A digital (pdf) copy of the approved compaction report shall be submitted to the Land Development Division. All pads shall meet pad elevations per approved grading plans as noted by the setting of "blue-top" markers installed by a registered land surveyor or licensed civil engineer.
- 111. For Commercial/Industrial projects, the owner may have to secure coverage under the State's General Industrial Activities Storm Water Permit as issued by the State Water Resources Control Board.
- 112. For non-subdivision projects, all street dedications shall be free of encumbrances, irrevocably offered to the public and shall continue in force until the City accepts or abandons such offers, unless otherwise approved by the City Engineer.
- 113. Certification to the line, grade, flow test and system invert elevations for the water quality control BMPs shall be submitted for review and approved by the City Engineer (excluding models homes).

- 114. All outstanding fees shall be paid.
- 115. All required as-built plans (prepared by a registered/licensed civil engineer) shall be submitted for review and approved by the City Engineer per the current submittal requirements.
- 116. The engineered final/precise grade certification shall be submitted for review and approved by the City Engineer.
- 117. For non-subdivision projects, in compliance with Proposition 218, the developer shall agree to approve the City of Moreno Valley NPDES Regulatory Rate Schedule that is in place at the time of certificate of occupancy issuance. Under the current permit for storm water activities required as part of the National Pollutant Discharge Elimination System (NPDES) as mandated by the Federal Clean Water Act, this project is subject to the following requirements:

a. Select one of the following options to meet the financial responsibility to provide storm water utilities services for the required continuous operation, maintenance, monitoring system evaluations and enhancements, remediation and/or replacement, all in accordance with Resolution No. 2002-46.

i. Participate in the mail ballot proceeding in compliance with Proposition 218, for the Common Interest, Commercial, Industrial and Quasi-Public Use NPDES Regulatory Rate Schedule and pay all associated costs with the ballot process; or

ii. Establish an endowment to cover future City costs as specified in the Common Interest, Commercial, Industrial and Quasi-Public Use NPDES Regulatory Rate Schedule.

b. Notify the Special Districts Division of the intent to request building permits 90 days prior to their issuance and the financial option selected. The financial option selected shall be in place prior to the issuance of certificate of occupancy. [California Government Code & Municipal Code]

118. The developer shall complete all public improvements in conformance with current City standards, except as noted in the Special Conditions, including but not limited to the following:

a. Street improvements including, but not limited to: pavement, base, curb and/or gutter, cross gutters, spandrel, sidewalks, drive approaches, pedestrian ramps, street lights, signing, striping, under sidewalk drains, landscaping and irrigation, medians, redwood header boards, pavement tapers/transitions and traffic control devices as appropriate.

b. Storm drain facilities including, but not limited to: storm drain pipe, storm drain laterals, open channels, catch basins and local depressions.

c. City-owned utilities.

d. Sewer and water systems including, but not limited to: sanitary sewer, potable

water and recycled water.

e. Under grounding of all existing and proposed utilities adjacent to and on-site. [MC 9.14.130]

f. Relocation of overhead electrical utility lines including, but not limited to: electrical, cable and telephone.

- 119. For commercial, industrial and multi-family projects, a "Stormwater Treatment Device and Control Measure Access and Maintenance Covenant" shall be recorded to provide public notice of the maintenance requirements to be implemented per the approved final project-specific WQMP. A boilerplate copy of the "Stormwater Treatment Device and Control Measure Access and Maintenance Covenant" can be obtained by contacting the Land Development Division.
- 120. The applicant shall ensure the following, pursuant to Section XII. I. of the 2010 NPDES Permit:

a. Field verification that structural Site Design, Source Control and Treatment Control BMPs are designed, constructed and functional in accordance with the approved Final Water Quality Management Plan (WQMP).

b. Certification of best management practices (BMPs) from a state licensed civil engineer. An original WQMP BMP Certification shall be submitted for review and approved by the City Engineer.

121. The Developer shall comply with the following water quality related items:

a. Notify the Land Development Division prior to construction and installation of all structural BMPs so that an inspection can be performed.

b. Demonstrate that all structural BMPs described in the approved final project-specific WQMP have been constructed and installed in conformance with the approved plans and specifications;

c. Demonstrate that Developer is prepared to implement all non-structural BMPs described in the approved final project-specific WQMP; and

d. Demonstrate that an adequate number of copies of the approved final project-specific WQMP are available for future owners/occupants.

e. Clean and repair the water quality BMP's, including re-grading to approved civil drawing if necessary.

f. Provide City with updated Engineer's Line and Grade Certification.

g. Obtain approval and complete installation of the irrigation and landscaping.

122. Prior to occupancy, the Developer shall construct the following improvements, consistent with Sunnymead Boulevard, City Standard Plan MVSI-104D-0 (100' RW / 68' CC), which fronts the entire project's south frontage:

a. A driveway approach shall be constructed per City Standard Plan MVSI-112C-0. No decorative pavers shall be placed within the public right of way.

b. Curb, gutter, and sidewalk shall be constructed to adjoin existing improvements per City Standard Plans MVSI-120A-0 and MVSI-115A-0,

respectively.

- 123. Prior to precise grading plan approval, the precise grading plans shall show any proposed trash enclosure as dual bin; one for trash and one for recyclables.
- 124. Prior to building permit issuance, a 4 foot right of way dedication behind the driveway approach, per City Standard Plan MVSI-112C-0, shall be approved.

Special Districts Division

- 125. The ongoing maintenance of any landscaping required to be installed behind the curb shall be the responsibility of the property owner.
- 126. Modification of existing irrigation systems for parkway improvements may be required per the direction of, approval by and coordination with the Special Districts Division. Please contact Special District Division staff at 951.413.3480 or special districts@moval.org to coordinate the modifications.
- 127. Any damage to existing landscape areas maintained by the City of Moreno Valley due to project construction shall be repaired/replaced by the Developer, or Developer's successors in interest, at no cost to the City of Moreno Valley.
- 128. The removal of existing trees with four-inch or greater trunk diameters (calipers), shall be replaced, at a three to one ratio, with minimum twenty-four (24) inch box size trees of the same species, or a minimum thirty-six (36) inch box for a one to one replacement, where approved. (MC 9.17.030)
- 129. The parcel(s) associated with this project have been incorporated into the Moreno Valley Community Services District Zone A (Parks & Community Services), Zone C (Arterial Street Lighting), and Zone S (Sunnymead Boulevard Maintenance). All assessable parcels therein shall be subject to annual parcel taxes for Zone A and Zone C and the annual parcel charge for Zone S for operations and capital improvements.
- 130. This project is conditioned for a proposed district to provide a funding source for the operation and maintenance of public improvements and/or services associated with new development in that territory. The Developer shall satisfy this condition with one of the options outlined below.

a. Participate in a special election for maintenance/services and pay all associated costs of the election process and formation, if any. Financing may be structured through a Community Facilities District, Landscape and Lighting Maintenance District, or other financing structure as determined by the City; or

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b. Establish an endowment fund to cover the future maintenance and/or service costs.

The Developer must notify the Special Districts Division at 951.413.3480 or at specialdistricts@moval.org when submitting the application for building permit issuance. If the first building permit is pulled prior to formation of the district, this condition will not apply. If the district has been or is in the process of being formed the Developer must inform the Special Districts Division of its selected financing option (a. or b. above). The option for participating in a special election requires 90 days to complete the special election process. This allows adequate time to be in compliance with the provisions of Article 13C of the California Constitution.

The financial option selected shall be in place prior to the issuance of the first certificate of occupancy for the project.

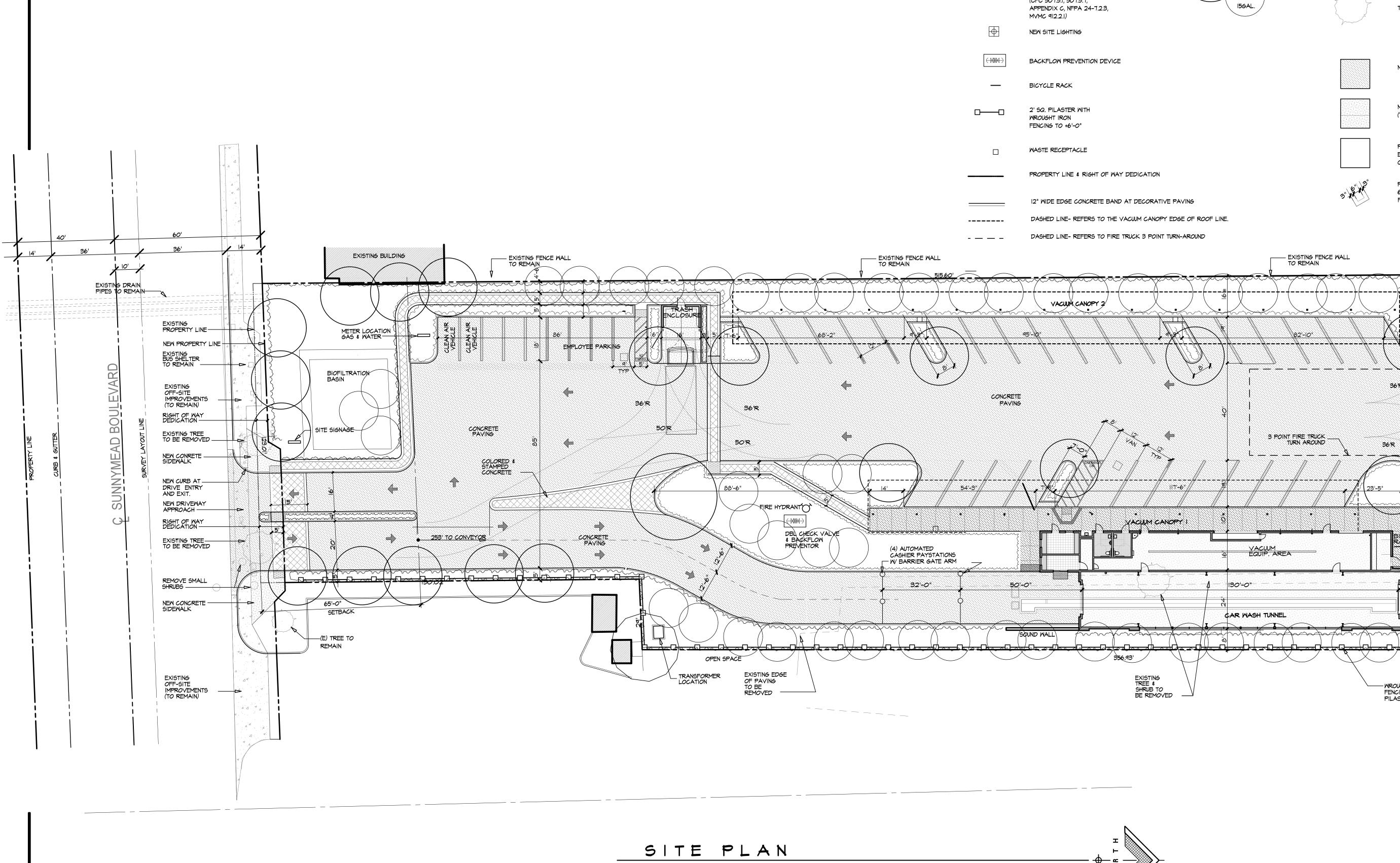
- 131. Commercial (BP) If Land Development, a Division of the Public Works Department, requires this project to supply a funding source necessary to provide for, but not limited to, stormwater utilities services for the continuous operation, remediation and/or replacement, monitoring, systems evaluations and enhancement of on-site facilities and performing annual inspections of the affected areas to ensure compliance with state mandated stormwater regulations, a funding source needs to be established. The Developer must notify the Special Districts Division at 951.413.3480 or at specialdistricts@moval.org of its selected financial option for the National Pollution Discharge Elimination System (NPDES) program when submitting the application for the first building permit issuance (see Land Development's related condition). Participating in a special election the process requires a 90 day period prior to the City's issuance of a building permit. This allows adequate time to be in compliance with the provisions of Article 13D of the (California Health and Safety Code Sections 5473 through California Constitution. 5473.8 (Ord. 708 Section 3.1, 2006) & City of Moreno Valley Municipal Code Title 3, Section 3.50.050.)
- 132. This project has been identified to be included in the formation of a Community Facilities District (Mello-Roos) for Public Safety services, including but not limited to Police, Fire Protection, Paramedic Services, Park Rangers, and Animal Control services. The property owner(s) shall not protest the formation; however, they retain the right to object to the rate and method of maximum special tax. In compliance with Proposition 218, the property owner shall agree to approve the mail ballot proceeding (special election) for either formation of the CFD or annexation into an existing district. The Developer must notify the Special Districts Division at 951.413.3480 or at specialdistricts@moval.org when submitting the application for building permit issuance to determine the requirement for participation. If the first building permit is pulled prior to formation of the district, this condition will not apply. If the condition applies, the special election will require a minimum of 90 days prior

to issuance of the first building permit. This allows adequate time to be in compliance with the provisions of Article 13C of the California Constitution. (California Government Code Section 53313 et. seq.)

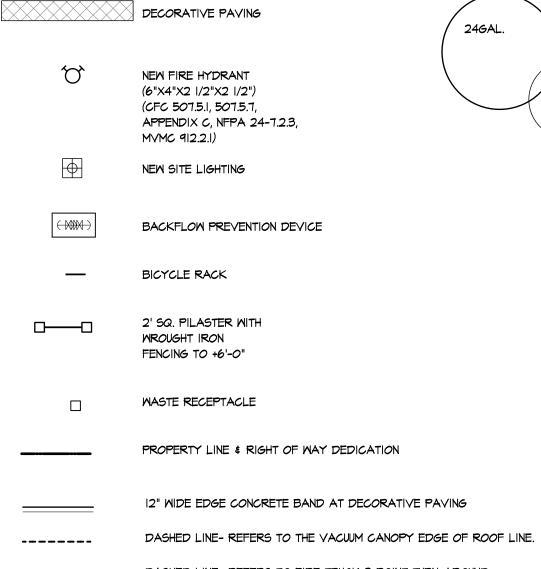
- 133. SD-4 Installation of a new driveway for this project may impact City owned palm trees adjacent to Sunnymead Blvd. If this occurs, relocation of the palm(s) will be required. Additionally, demo and relocation of the tree well(s) may be required if the site accommodates.
- 134. Inspection fees for the monitoring of landscape installation associated with the City of Moreno Valley maintained parkways/medians are due prior to the required pre-construction meeting. (MC 3.32.040)

Transportation Engineering Division

- 135. Driveway shall conform to City of Moreno Valley Standard No. MVSI-112C-0 for commercial driveway approach. Access at the driveway shall be right-in and right-out only, controlled by the existing raised concrete median on Sunnymead Boulevard.
- 136. All proposed on-site traffic signing and striping should be accordance with the latest California Manual on Uniform Traffic Control Devices (CAMUTCD).
- 137. Sunnymead Boulevard is classified as a modified arterial (100' RW/68'CC) at this location per City Standard Plan No. MVSI-104D-0. Any improvements undertaken by this project shall be consistent with the City's standards for this facility
- 138. Prior to issuance of a construction permit, construction traffic control plans prepared by a qualified, registered Civil or Traffic engineer may be required for plan approval or as required by the City Traffic Engineer.
- 139. Prior to issuance of a Building Final or Certificate of Occupancy, all approved signing and striping shall be installed per current City Standards
- 140. Prior to final approval of any landscaping or monument sign plans, the project plans shall demonstrate that sight distance at the project driveways conforms to City Standard Plan No. MVSI-164A, B, C-0.



SITE PLAN LEGEND



SCALE: |" = 20'-0"

0

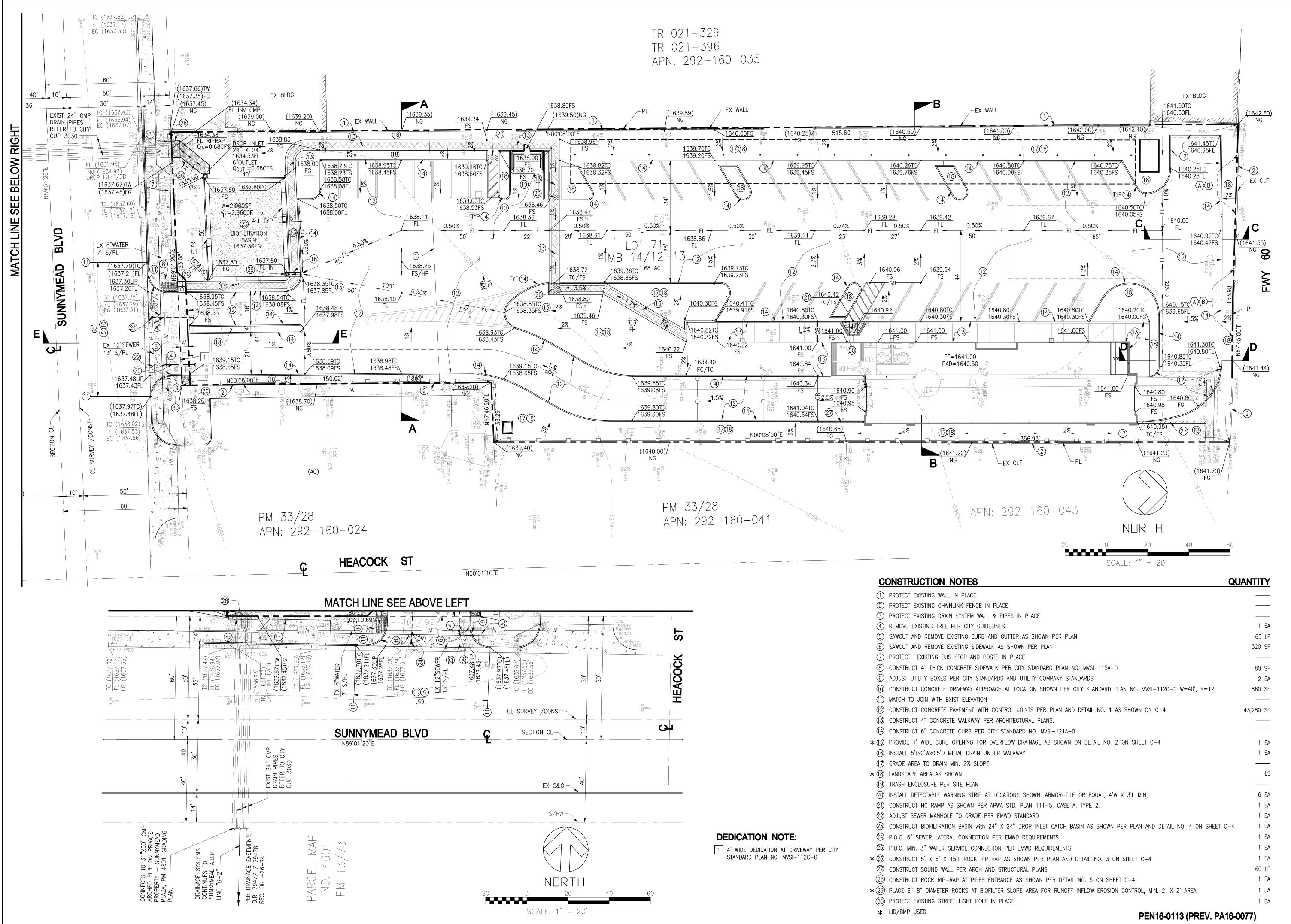
may 24GAL. NEW TREES SHRUBS 15GAL. TREE TO BE REMOVED SCOTT ASSOCIATES NEW CONCRETE PAVING ARCHITECT NEW 4" CONCRETE WALK OVER 2" SAND (THIN LINE INDICATES EXP./CONTROL JOINT) 1009 North Demaree PLANTER AREA WITH WATER Visalia · California · 93291 EFFICIENT SHRUBS AND GROUND COVER (NO TURF) Tel 559/627-1851 fscott@fscottassociates.com PARKING STRIPING-3" WIDE STRIPE 3 *** 6" WIDE SPACE THEN 3" WIDE STRIPE FOR 12" WIDE PARKING STRIPE, TYP. C-8278 - EXISTING FENCE WALL TO REMAIN EXISTING BUILDING CONCRETE PAVIN 36'R 50'R 3 POINT FIRE TRUCK _ TURN AROUND 50'R 36'R \triangle \land <u>/ 23'-5"</u> ())#()) NEW RAČK. VACUUM EQUIP. AREA CARWASH FOR 130'-0" 45'-0" ALISAM CONC. PAVING CAR WASH TUNNEL MORENO \SOUND WALL LLC ω ┉╤┲╹╬╼╍╬┹╅╌╾╙┠╼┾╤┡┉╾╾┉ᢕᠰ᠋᠋ᡧᠵᢂᢏ╾┉┽ EXISTING CONCRETE GUTTER TO BE REMOVED - WROUGHT IRON FENCING W/ PILASTERS MORENO VALLEY CALIFORNIA PROJECT #PEN16-0113(PA16-0077 PROJECT No : 1604 DATE : 9-11-2017

SITE PLAN

1.14

SHEET No :

2.p



(1)	PROTECT EXISTING WALL IN PLACE	
2	PROTECT EXISTING CHAINLINK FENCE IN PLACE	
3	PROTECT EXISTING DRAIN SYSTEM WALL & PIPES IN PLACE	
4	REMOVE EXISTING TREE PER CITY GUIDELINES	1 E
5	SAWCUT AND REMOVE EXISTING CURB AND GUTTER AS SHOWN PER PLAN	65 L
6	SAWCUT AND REMOVE EXISTING SIDEWALK AS SHOWN PER PLAN	320 S
7	PROTECT EXISTING BUS STOP AND POSTS IN PLACE	
8	CONSTRUCT 4" THICK CONCRETE SIDEWALK PER CITY STANDARD PLAN NO. MVSI-115A-0	80 S
9	ADJUST UTILITY BOXES PER CITY STANDARDS AND UTILITY COMPANY STANDARDS	2 E
10	CONSTRUCT CONCRETE DRIVEWAY APPROACH AT LOCATION SHOWN PER CITY STANDARD PLAN NO. MVSI-112C-0 W=40', R=12'	860 S
11	MATCH TO JOIN WITH EXIST ELEVATION	
(12)	CONSTRUCT CONCRETE PAVEMENT WITH CONTROL JOINTS PER PLAN AND DETAIL NO. 1 AS SHOWN ON C-4	43,280 S
(13)	CONSTRUCT 4" CONCRETE WALKWAY PER ARCHITECTURAL PLANS.	
(14)	CONSTRUCT 6" CONCRETE CURB PER CITY STANDARD NO. MVSI-121A-0	
* 15	PROVIDE 1' WIDE CURB OPENING FOR OVERFLOW DRAINAGE AS SHOWN ON DETAIL NO. 2 ON SHEET C-4	1 E
16	INSTALL 5'Lx2'Wx0.5'D METAL DRAIN UNDER WALKWAY	1 E
17	GRADE AREA TO DRAIN MIN. 2% SLOPE	
* 18	LANDSCAPE AREA AS SHOWN	L
(19)	TRASH ENCLOSURE PER SITE PLAN	
0	INSTALL DETECTABLE WARNING STRIP AT LOCATIONS SHOWN. ARMOR-TILE OR EQUAL, 4'W X 3'L MIN,	6 E
21	CONSTRUCT HC RAMP AS SHOWN PER APWA STD. PLAN 111-5, CASE A, TYPE 2.	1 E
2	ADJUST SEWER MANHOLE TO GRADE PER EMWD STANDARD	1 E
23	CONSTRUCT BIOFILTRATION BASIN with 24" X 24" DROP INLET CATCH BASIN AS SHOWN PER PLAN AND DETAIL NO. 4 ON SHEET C-4	1 E
24)	P.O.C. 6" SEWER LATERAL CONNECTION PER EMWD REQUIREMENTS	1 E
25	P.O.C. MIN. 3" WATER SERVICE CONNECTION PER EMWD REQUIREMENTS	1 E
* 26	CONSTRUCT 5' X 6' X 15'L ROCK RIP RAP AS SHOWN PER PLAN AND DETAIL NO. 3 ON SHEET C-4	1 E
27	CONSTRUCT SOUND WALL PER ARCH AND STRUCTURAL PLANS	60 L
(28)	CONSTRUCT ROCK RIP-RAP AT PIPES ENTRANCE AS SHOWN PER DETAIL NO. 5 ON SHEET C-4	1 E
*29	PLACE 6"—8" DIAMETER ROCKS AT BIOFILTER SLOPE AREA FOR RUNOFF INFLOW EROSION CONTROL, MIN. 2' X 2' AREA	1 E
(30)	PROTECT EXISTING STREET LIGHT POLE IN PLACE	1 E
*		
•	PEN16-0113 (PREV. PA16-0	JU(()

E IN PLACE	
WALL & PIPES IN PLACE	
GUIDELINES	
RB AND GUTTER AS SHOWN PER PLAN	
DEWALK AS SHOWN PER PLAN	
D POSTS IN PLACE	
IDEWALK PER CITY STANDARD PLAN NO. MVSI-115A-0	
TANDARDS AND UTILITY COMPANY STANDARDS	



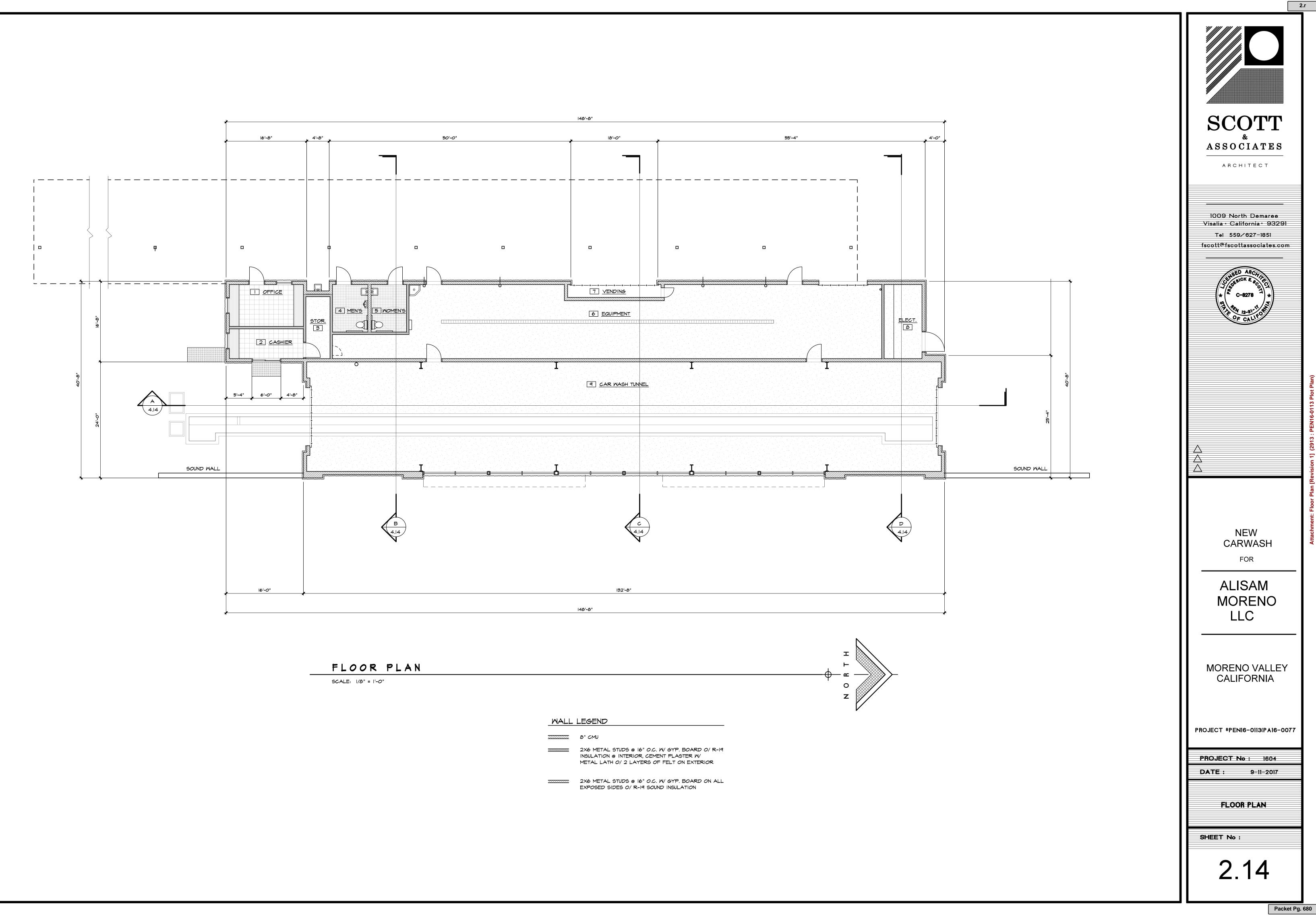


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project

LOT 71 OF SUNNYMEAD ORCHARD FARMS TRACT RIVERSIDE COUNTY, CA APN: 292-160-023-9

owner SH-60-AT HEACOCK STREET, LLC C/O P&N CONSTRUCTION 8730 WILSHIRE BLVD STE 202 BEVERLY HILLS, CA 90211 TEL : (310) 433-6815 FAX : (310) 657-7962 EMAIL: BIJAN@3MIL.COM							
project no.	450-269P1						
scale	AS NOTED						
drawn	NB						
checked	JMA						
date	11/27/17						
sheet title							
PRELIMINARY GRADING PLAN							
sheet no. C-3							







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MORENO VALLEY CARWASH

PROJECT #PEN16-0113(PA16-0077

Planning Division



Attachment: Material Board (2913 : PEN16-0113 Plot Plan)

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