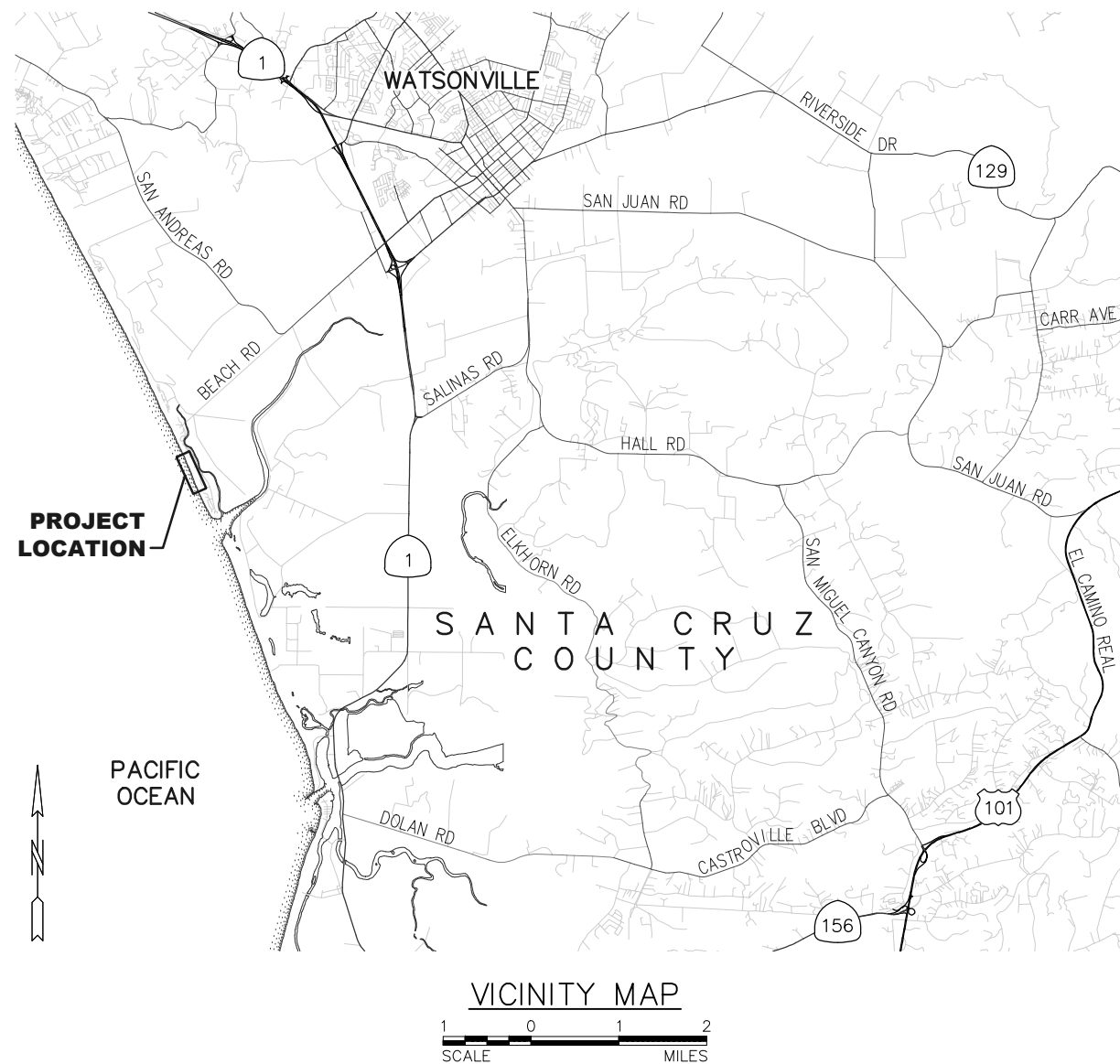


PAJARO DUNES GHAD

ROCK REVETMENT REPAIR LOTS 1-12, 94-103, AND 107 PAJARO DUNES RESORT WATSONVILLE, CALIFORNIA

APRIL 2020



GENERAL NOTES

1. STANDARD SPECIFICATIONS

ALL MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS, 2010 EDITION, UNLESS OTHERWISE NOTED ON THESE PLANS.

2. PERMITS

THE OWNER WILL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS.

3. TRAFFIC CONTROL AND PUBLIC SAFETY

THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FENCING, FLAGGING, AND OTHER DEVICES NECESSARY FOR TRAFFIC CONTROL AND PUBLIC SAFETY.

4. EXISTING FACILITIES

EXISTING SITE IMPROVEMENTS TO REMAIN MAY INTERFERE WITH THE WORK. THESE FACILITIES SHALL BE PROTECTED OR REMOVED AND REPLACED WITH LIKE KIND AND QUALITY AT THE CONTRACTOR'S EXPENSE.

5. SITE INFORMATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL ABOVE GROUND AND UNDERGROUND FACILITIES WHICH MAY BE AFFECTED BY HIS OPERATIONS. THE CONTRACTOR SHALL CONTACT OWNERS OF THESE FACILITIES AND SHALL PROTECT FACILITIES AND MAINTAIN SERVICE DURING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.

DIMENSIONS AND LIMITS OF WORK SHOWN ON THE PLANS ARE APPROXIMATE AND ARE SUBJECT TO CHANGE BASED ON CONDITIONS ENCOUNTERED. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND SITE CONDITIONS PRIOR TO THE START OF CONSTRUCTION. DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN ON THE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.

6. INSPECTIONS

ENGINEERING INSPECTIONS WILL BE CARRIED OUT BY CAL ENGINEERING & GEOLOGY, INC. (925) 935-9771. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AT LEAST TWO WORKING DAYS PRIOR TO ALL REQUIRED INSPECTIONS.

DESCRIPTION OF WORK

THE WORK SHALL CONSIST IN GENERAL OF PROVIDING ALL MATERIAL, LABOR, AND EQUIPMENT NECESSARY TO COMPLETE THE LANDSLIDE REPAIR PROJECT. WORK SHALL INCLUDE, BUT NOT BE LIMITED TO: MOBILIZATION, WATER POLLUTION CONTROL, DEVELOP SITE ACCESS, CLEARING & GRUBBING, EXCAVATION, TEMPORARY STOCKPILE, SURFACE AND SUBSURFACE DRAINAGE SYSTEMS, TEMPORARY SHORING PILES, GRADE BEAM, SOLDIER PILE RETAINING WALLS, CONCRETE DITCH, DRAINAGE INLETS, GEOGRID REINFORCEMENT, COMPACTED FILL, HYDRO-SEED, AND EROSION CONTROL MAT.

CONTRACTOR LICENSE

THE CONTRACTOR SHALL POSSESS A VALID CLASS A LICENSE AT THE TIME THE CONTRACT IS AWARDED.

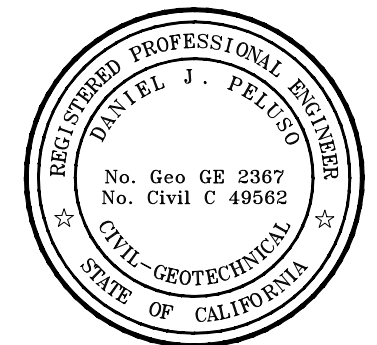
INDEX OF SHEETS

1. TITLE SHEET
2. NOTES
3. TYPICAL SECTION
4. PROJECT CONTROL
5. SITE ACCESS AND STAGING AREAS
- 6.-9. PLAN AND PROFILE
- 10.-15. SECTIONS

STANDARD PLANS

THE FOLLOWING STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS, 2010 EDITION, APPLY:

- A10A ABBREVIATIONS (SHEET 1 OF 2)
- A10B ABBREVIATIONS (SHEET 2 OF 2)
- A10C LINES AND SYMBOLS (SHEET 1 OF 3)
- A10D LINES AND SYMBOLS (SHEET 2 OF 3)
- A10E LINES AND SYMBOLS (SHEET 3 OF 3)
- B3-6 RETAINING WALL DETAILS NO. 2
- T51 TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY SILT FENCE)
- T53 TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY COVER)
- T56 TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY FIBER ROLLS)



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 CAL ENGINEERING & GEOLOGY		785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD		
		ROCK REVETMENT REPAIR PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA TITLE SHEET			PROJECT NO. 190780	DATE APRIL 2020
DESIGNED XXX	DRAWN XXX	CHECKED P. GREGORY				


GENERAL NOTES

1.

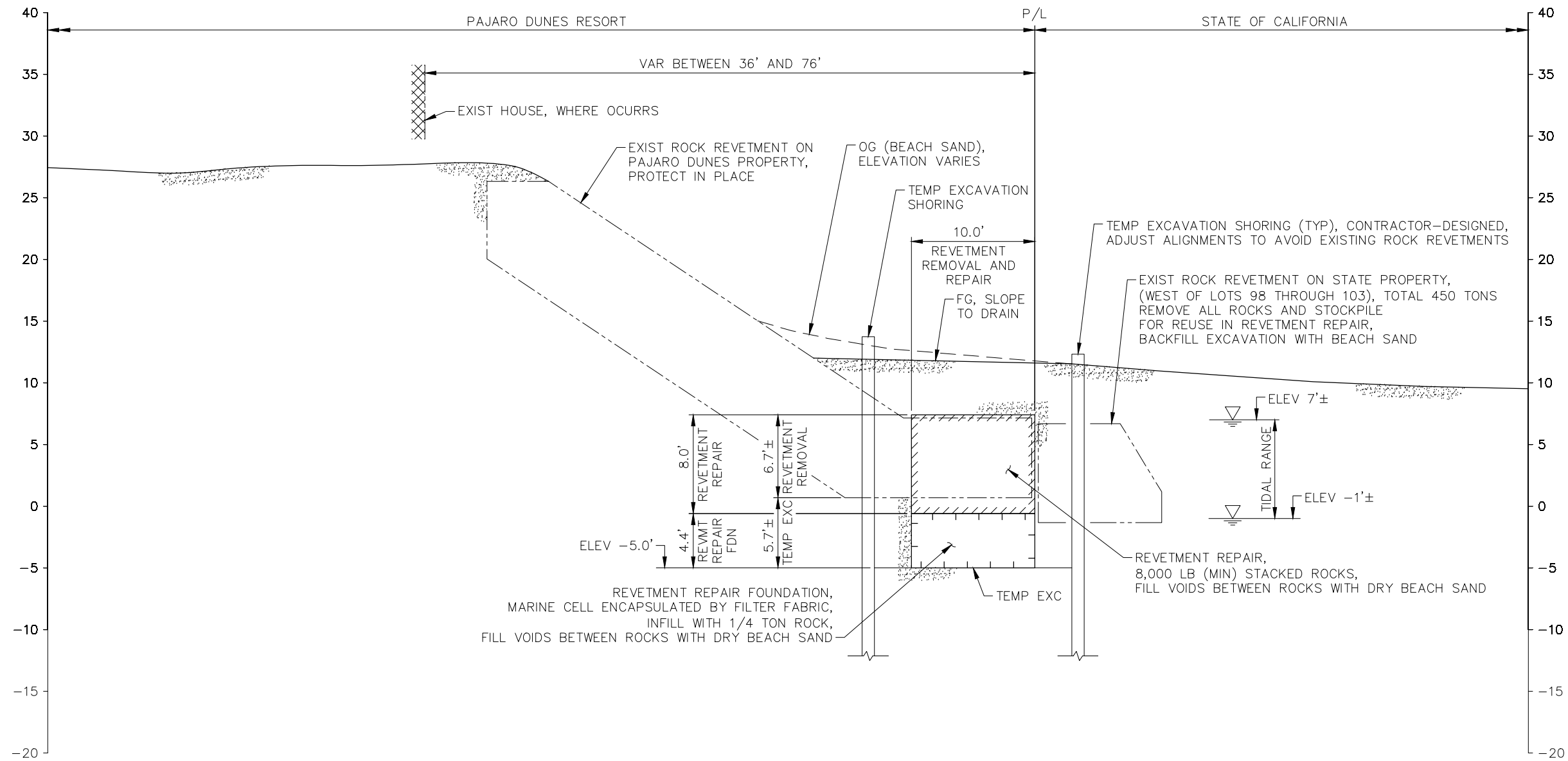
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 CAL ENGINEERING & GEOLOGY		785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD		
				ROCK REVETMENT REPAIR PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA NOTES		
DESIGNED XXX	DRAWN XXX	CHECKED P. GREGORY	PROJECT NO. 190780	DATE APRIL 2020	SHEET NO. 2	OF 15

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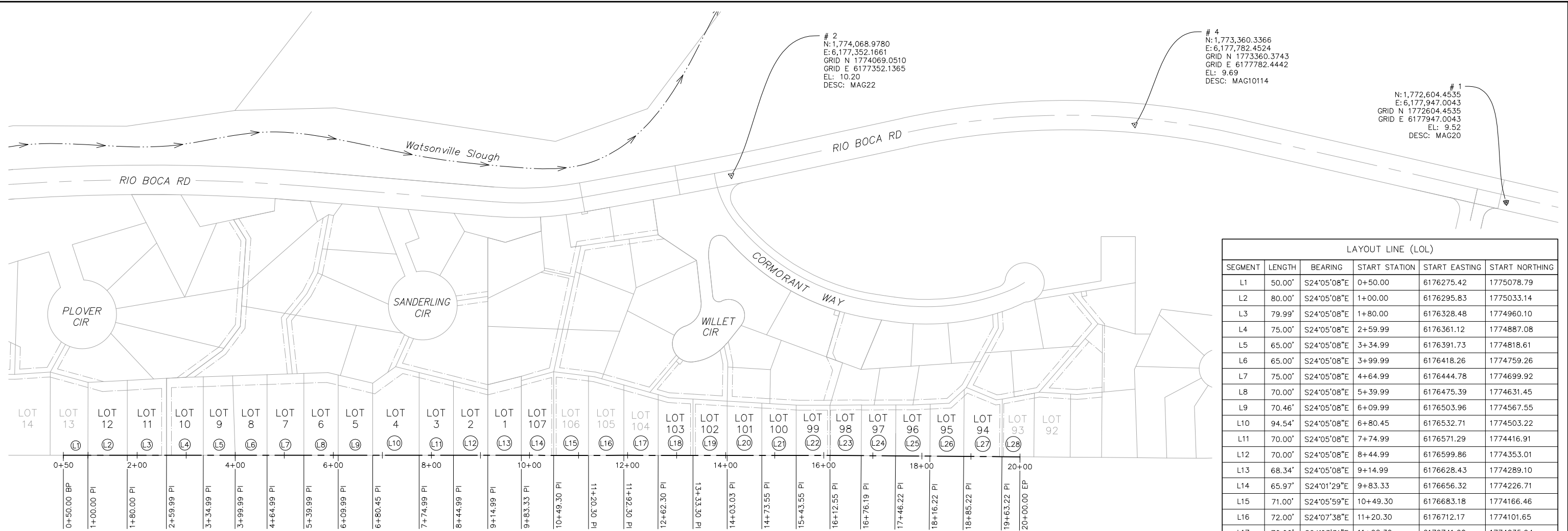


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7 APRIL 2020**



 CAL ENGINEERING & GEOLOGY		785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD	
		ROCK REVETMENT REPAIR PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA TYPICAL SECTION			
DESIGNED XXX	DRAWN XXX	CHECKED P. GREGORY	PROJECT NO. 190780	DATE APRIL 2020	SHEET NO. OF 3 OF 15

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2
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 E: 6,177,352.1661
 GRID N 1774069.0510
 GRID E 6177352.1365
 EL: 10.20
 DESC: MAG22

4
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 E: 6,177,782.4524
 GRID N 1773360.3743
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 EL: 9.69
 DESC: MAG10114

1
 N: 1,772,604.4535
 E: 6,177,947.0043
 GRID N 1772604.4535
 GRID E 6177947.0043
 EL: 9.52
 DESC: MAG20

LAYOUT LINE (LOL)					
SEGMENT	LENGTH	BEARING	START STATION	START EASTING	START NORTHING
L1	50.00'	S24°05'08"E	0+50.00	6176275.42	1775078.79
L2	80.00'	S24°05'08"E	1+00.00	6176295.83	1775033.14
L3	79.99'	S24°05'08"E	1+80.00	6176328.48	1774960.10
L4	75.00'	S24°05'08"E	2+59.99	6176361.12	1774887.08
L5	65.00'	S24°05'08"E	3+34.99	6176391.73	1774818.61
L6	65.00'	S24°05'08"E	3+99.99	6176418.26	1774759.26
L7	75.00'	S24°05'08"E	4+64.99	6176444.78	1774699.92
L8	70.00'	S24°05'08"E	5+39.99	6176475.39	1774631.45
L9	70.46'	S24°05'08"E	6+09.99	6176503.96	1774567.55
L10	94.54'	S24°05'08"E	6+80.45	6176532.71	1774503.22
L11	70.00'	S24°05'08"E	7+74.99	6176571.29	1774416.91
L12	70.00'	S24°05'08"E	8+44.99	6176599.86	1774353.01
L13	68.34'	S24°05'08"E	9+14.99	6176628.43	1774289.10
L14	65.97'	S24°01'29"E	9+83.33	6176656.32	1774226.71
L15	71.00'	S24°05'59"E	10+49.30	6176683.18	1774166.46
L16	72.00'	S24°07'38"E	11+20.30	6176712.17	1774101.65
L17	70.00'	S24°03'31"E	11+92.30	6176741.60	1774035.94
L18	71.00'	S24°06'43"E	12+62.30	6176770.13	1773972.02
L19	69.73'	S24°05'08"E	13+33.30	6176799.14	1773907.21
L20	70.52'	S24°05'08"E	14+03.03	6176827.60	1773843.55
L21	70.00'	S24°05'08"E	14+73.55	6176856.38	1773779.17
L22	69.00'	S24°05'08"E	15+43.55	6176884.94	1773715.27
L23	63.64'	S23°40'04"E	16+12.55	6176913.10	1773652.27
L24	70.02'	S23°40'04"E	16+76.19	6176938.65	1773593.99
L25	70.00'	S23°39'18"E	17+46.22	6176966.76	1773529.85
L26	69.00'	S23°39'18"E	18+16.22	6176994.84	1773465.74
L27	78.00'	S23°39'18"E	18+85.22	6177022.53	1773402.53
L28	36.78'	S23°39'18"E	19+63.22	6177053.82	1773331.09

LEGEND

△ BENCHMARK

— PROPERTY LINE

- - - EASEMENT

SURVEY NOTES

1. ...

UAV DATA REFERENCE

1. CONTOURS CALCULATED FROM PHOTOGRAMMETRICALLY-DERIVED DIGITAL ELEVATION MODEL, UAV FLIGHT PERFORMED ON 18 NOVEMBER 2019.
2. HIGH RESOLUTION ORTHOIMAGERY CAPTURED BY CE&G ON 18 NOVEMBER 2019.

HORIZONTAL DATUM: COORDINATES ARE APPROXIMATE TO NAD83 CALIFORNIA ZONE 3 VALUES.

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)



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 7 APRIL 2020**

NO.	REVISION DESCRIPTION	INI	M/D/YEAR

CE&G
 CAL ENGINEERING & GEOLOGY

785 Ygnacio Valley Road
 Walnut Creek, CA 94596
 Phone: (925) 935-9771

DESIGNED XXX	DRAWN XXX	CHECKED P. GREGORY
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PAJARO DUNES GHAD

ROCK REVETMENT REPAIR
 PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA
 PROJECT CONTROL



PROJECT NO. 190780	DATE APRIL 2020	SHEET NO. OF 4 OF 15
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**PROJECT LOCATION,
SEE SITE PLAN**

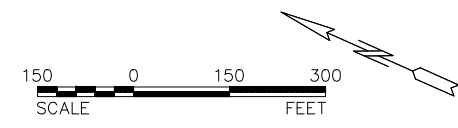
LEGEND


-  SITE ACCESS
-  POTENTIAL STAGING AREA



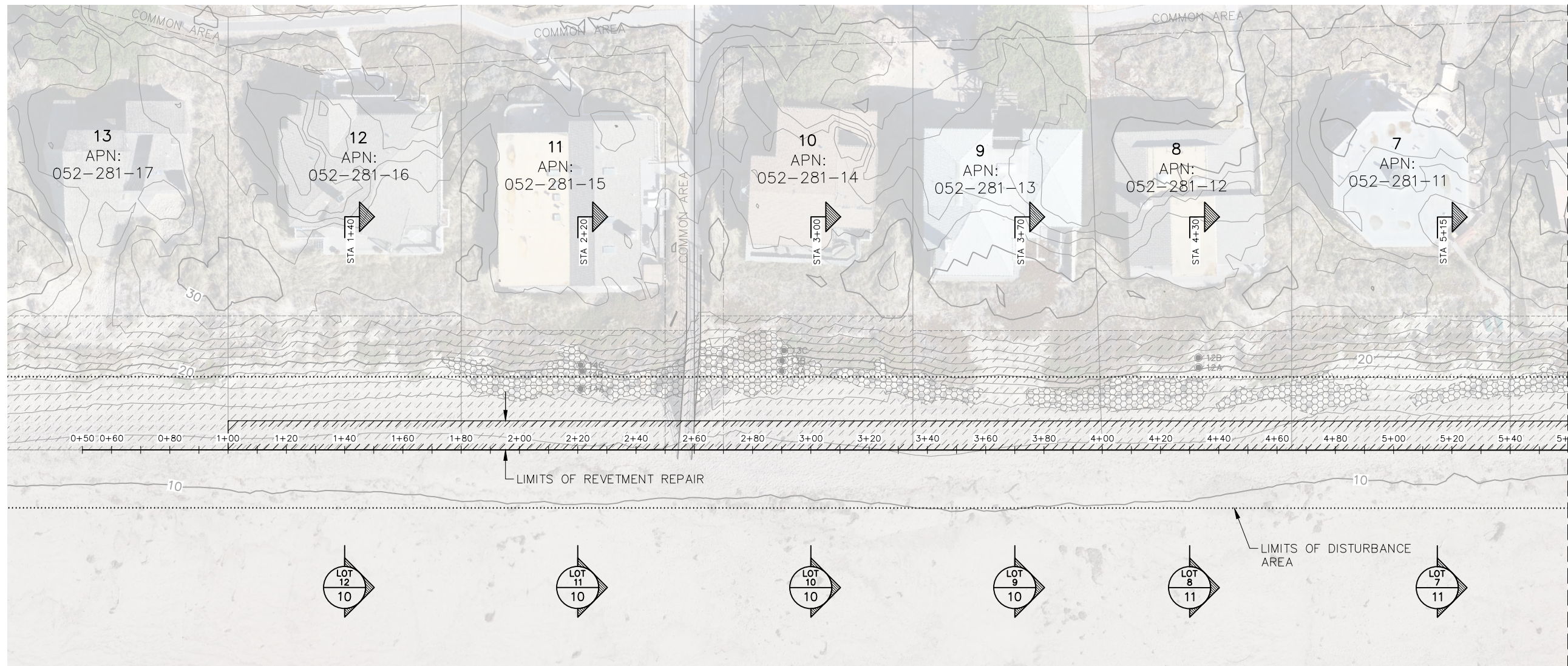
REFERENCE:
1. ORTHOIMAGERY FROM SANTA CRUZ COUNTY, 2016.

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7 APRIL 2020**

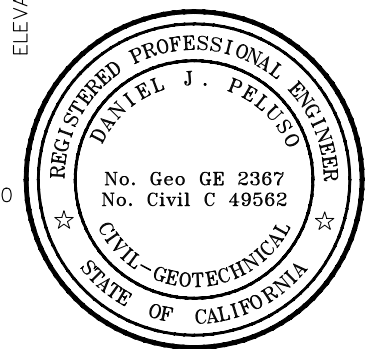
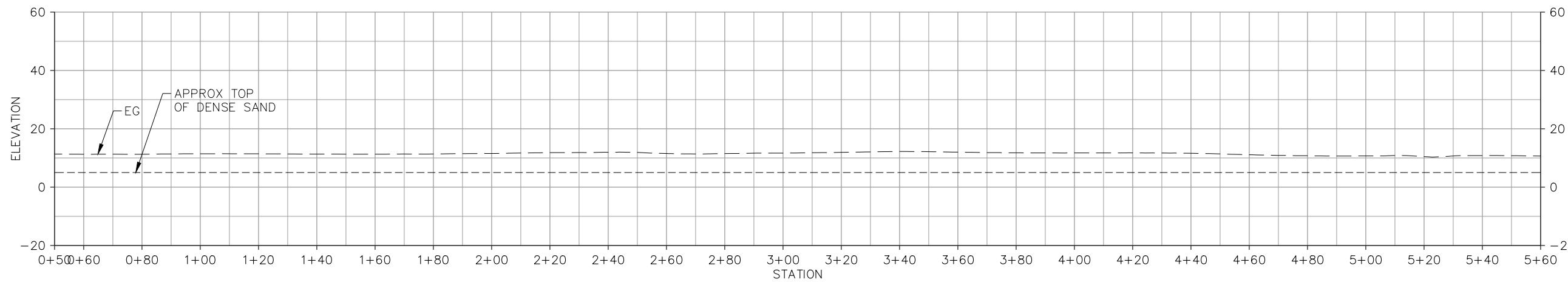


 CAL ENGINEERING & GEOLOGY		785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD ROCK REVETMENT REPAIR PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA SITE ACCESS AND STAGING AREA			
		DESIGNED XXX	DRAWN XXX	CHECKED P. GREGORY	PROJECT NO. 190780	DATE APRIL 2020	SHEET NO. OF 5 OF 15

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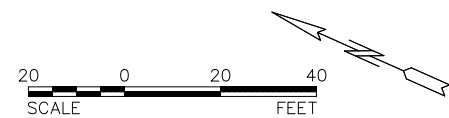
MATCH LINE STA 5+60, SEE SHEET 7



LEGEND

	EXISTING RSP
	EXISTING RSP, BURRIED

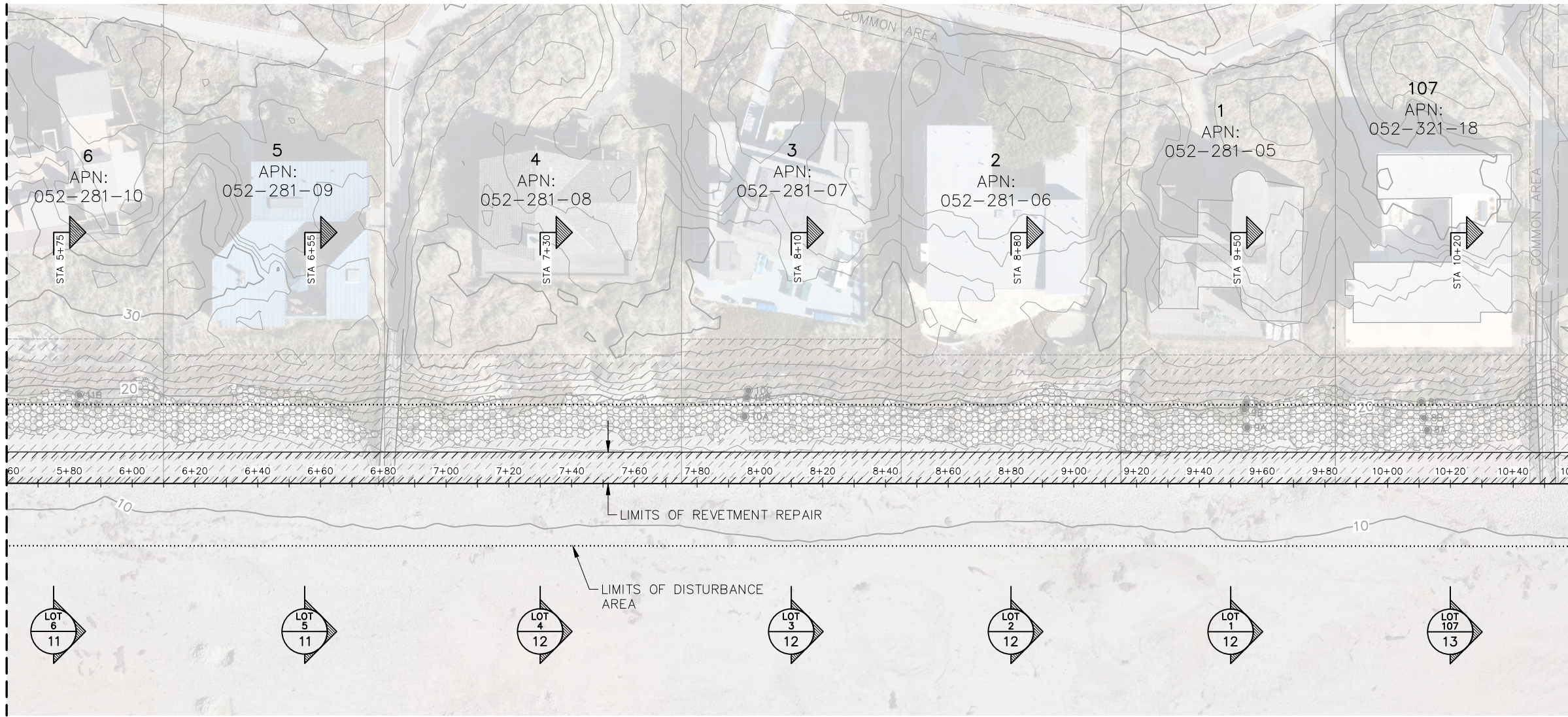
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7 APRIL 2020**



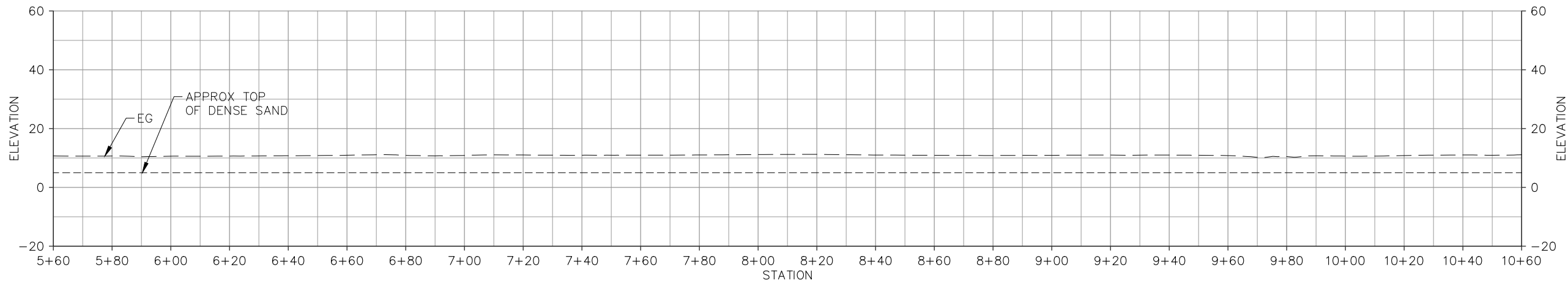
 CAL ENGINEERING & GEOLOGY	785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD ROCK REVETMENT REPAIR PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA PLAN AND PROFILE (1 OF 4)		
	DESIGNED XXX	DRAWN XXX	CHECKED P. GREGORY	PROJECT NO. 190780	DATE APRIL 2020

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MATCH LINE STA 5+60, SEE SHEET 6



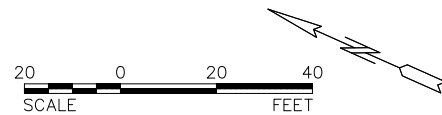
MATCH LINE STA 10+60, SEE SHEET 8



LEGEND

	EXISTING RSP
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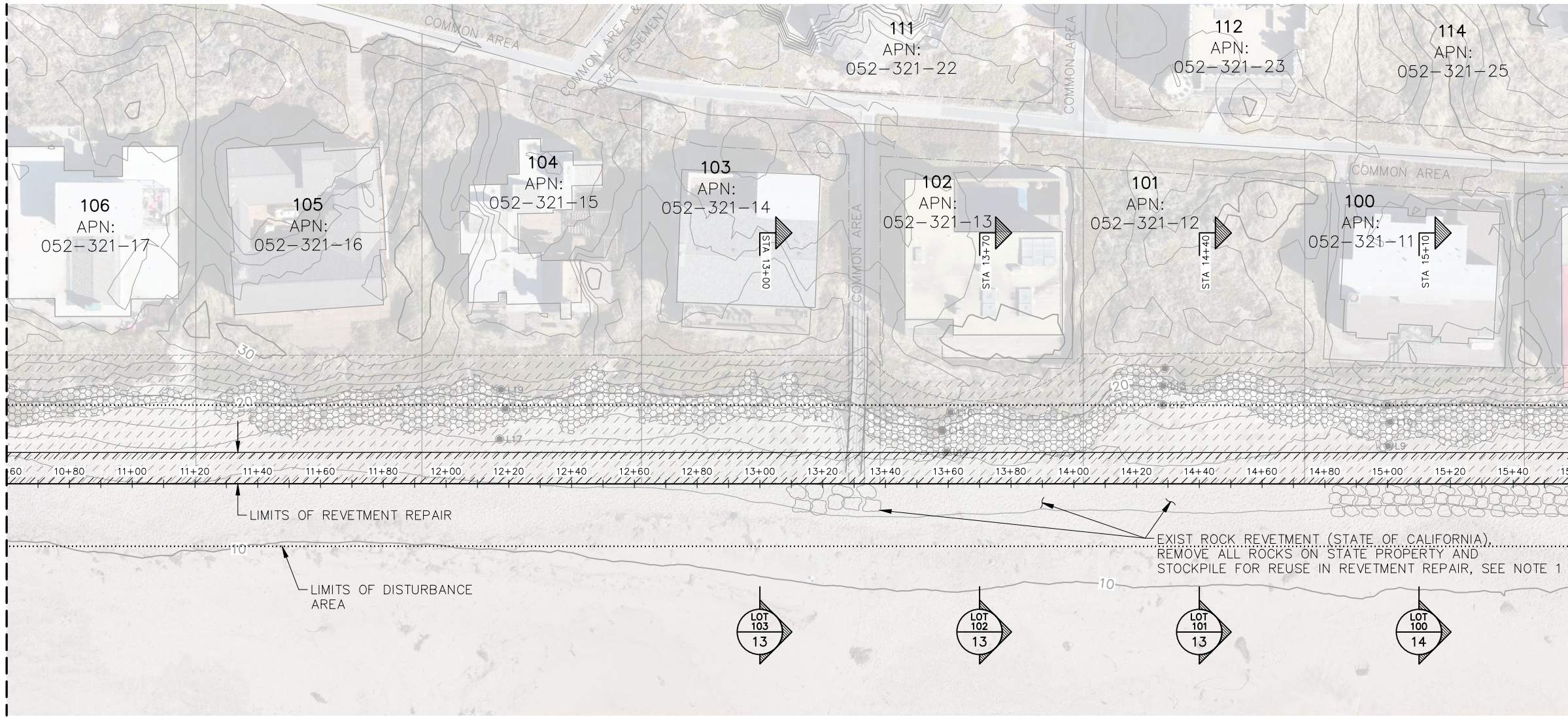
**30% SUBMITTAL
NOT FOR CONSTRUCTION
7 APRIL 2020**



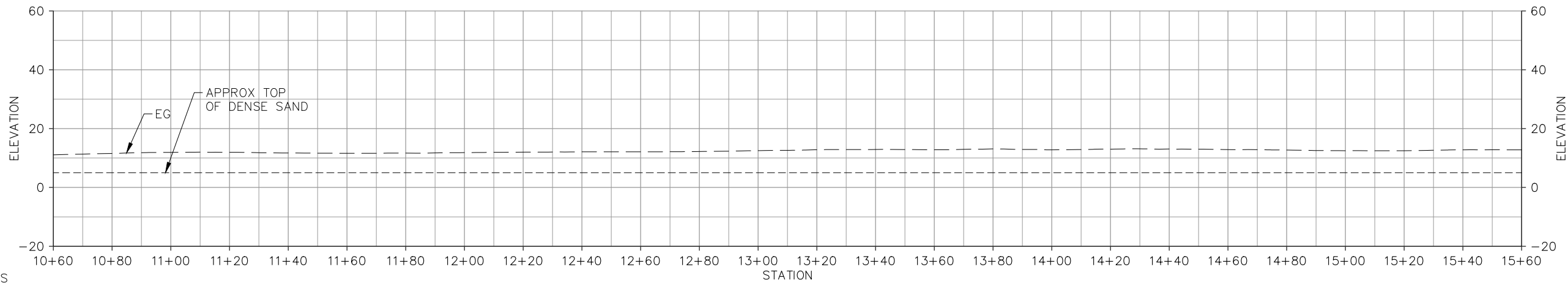
 CAL ENGINEERING & GEOLOGY		785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD	
		ROCK REVETMENT REPAIR PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA PLAN AND PROFILE (2 OF 4)			
DESIGNED XXX	DRAWN XXX	CHECKED P. GREGORY	PROJECT NO. 190780	DATE APRIL 2020	SHEET NO. OF 7 OF 15

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MATCH LINE STA 10+60, SEE SHEET 7



MATCH LINE STA 15+60, SEE SHEET 9



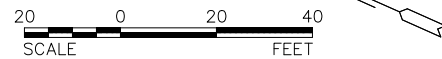
NOTES

1. THE LOCATION OF EXISTING RSP ON STATE LANDS SHOWN ON THE PLANS IS BASED ON CURRENTLY AVAILABLE DOCUMENTATION. HOWEVER, ADDITIONAL RSP ON STATE LANDS MAY BE UNCOVERED DURING CONSTRUCTION AND SHALL BE REMOVED AND STOCKPILED BY THE CONTRACTOR AND AS DIRECTED BY THE ENGINEER.

LEGEND

- EXISTING RSP
- EXISTING RSP, BURRIED

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7 APRIL 2020**

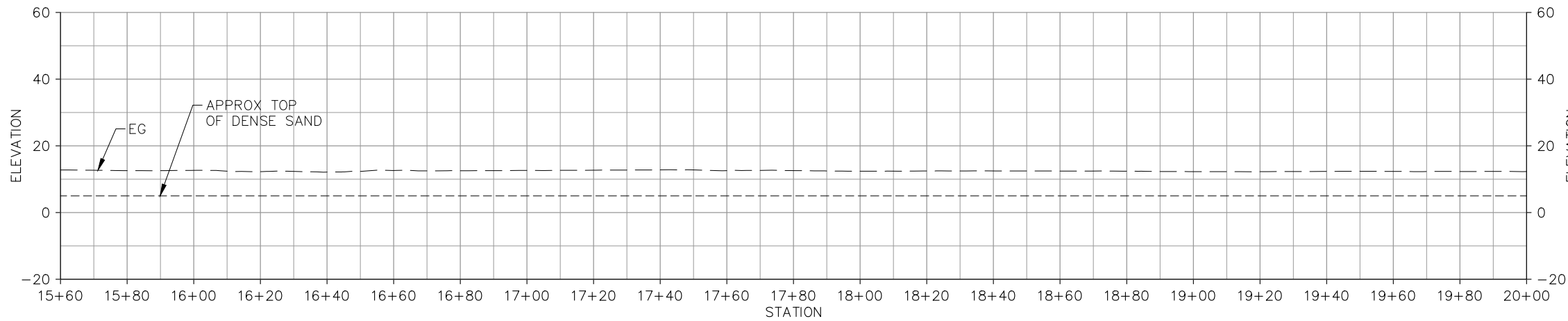
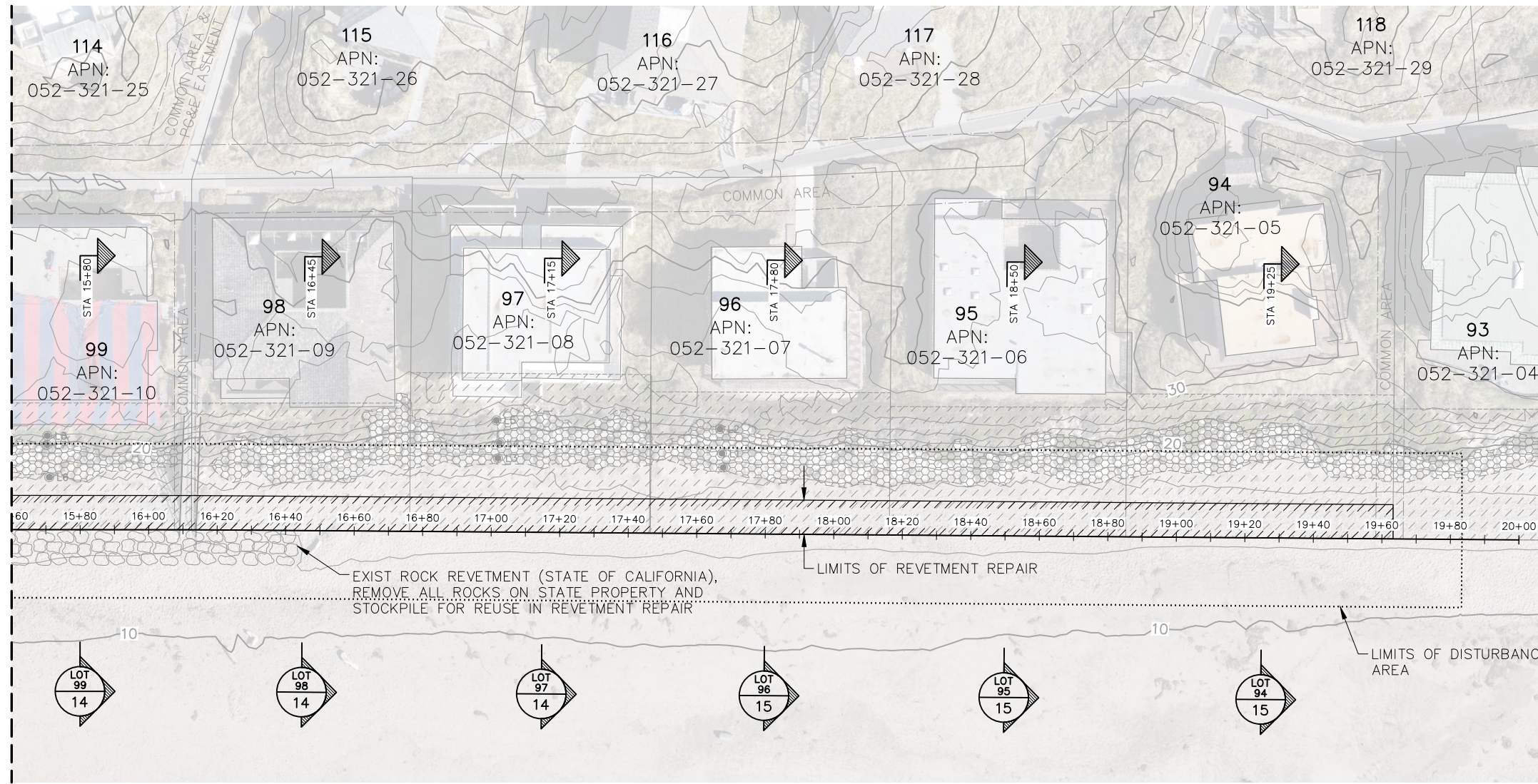


		785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD ROCK REVETMENT REPAIR PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA PLAN AND PROFILE (3 OF 4)	
		DESIGNED XXX	DRAWN XXX	CHECKED P. GREGORY	PROJECT NO. 190780



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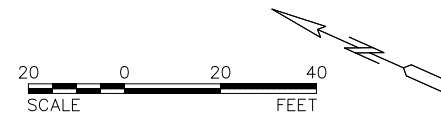
MATCH LINE STA 15+60, SEE SHEET 8



LEGEND

	EXISTING RSP
	EXISTING RSP, BURRIED

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7 APRIL 2020**



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CAL ENGINEERING & GEOLOGY

785 Ygnacio Valley Road
Walnut Creek, CA 94596
Phone: (925) 935-9771

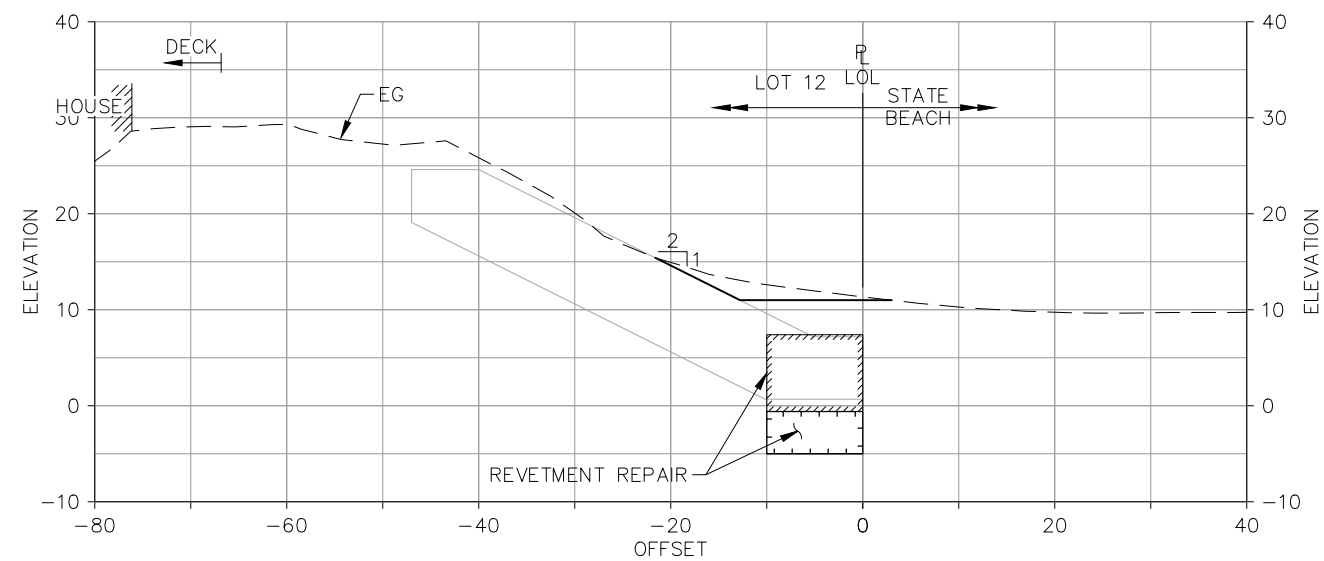
DESIGNED XXX	DRAWN XXX	CHECKED P. GREGORY
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PAJARO DUNES GHAD

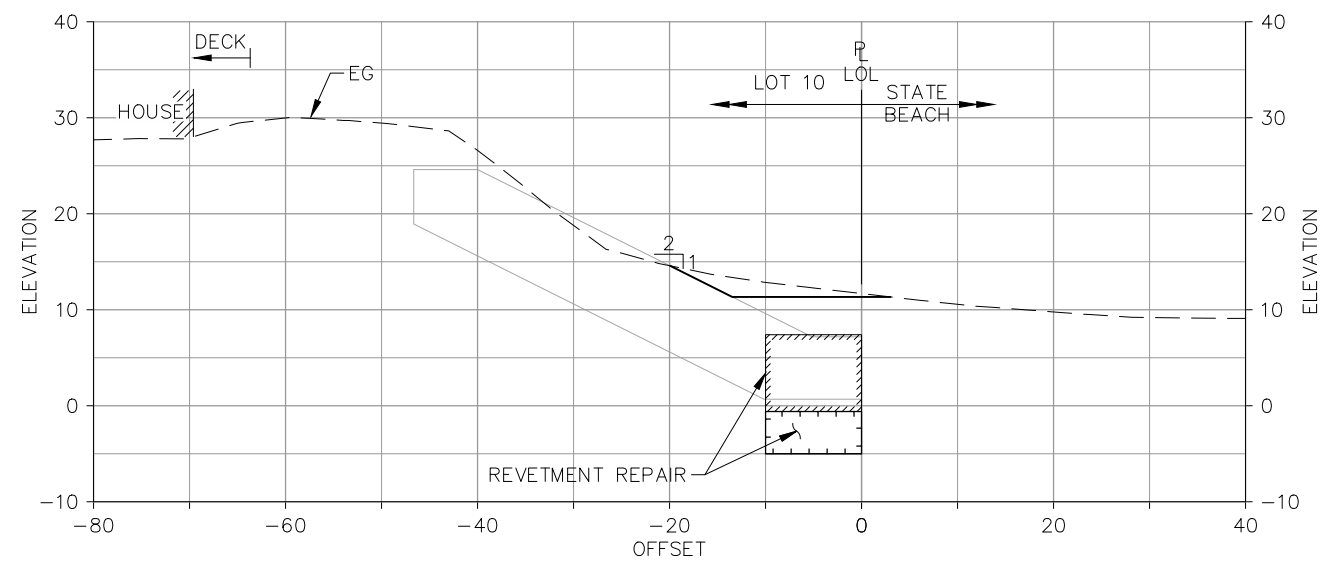
ROCK REVETMENT REPAIR
PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA
PLAN AND PROFILE (4 OF 4)

PROJECT NO. 190780	DATE APRIL 2020	SHEET NO. OF 9 OF 15
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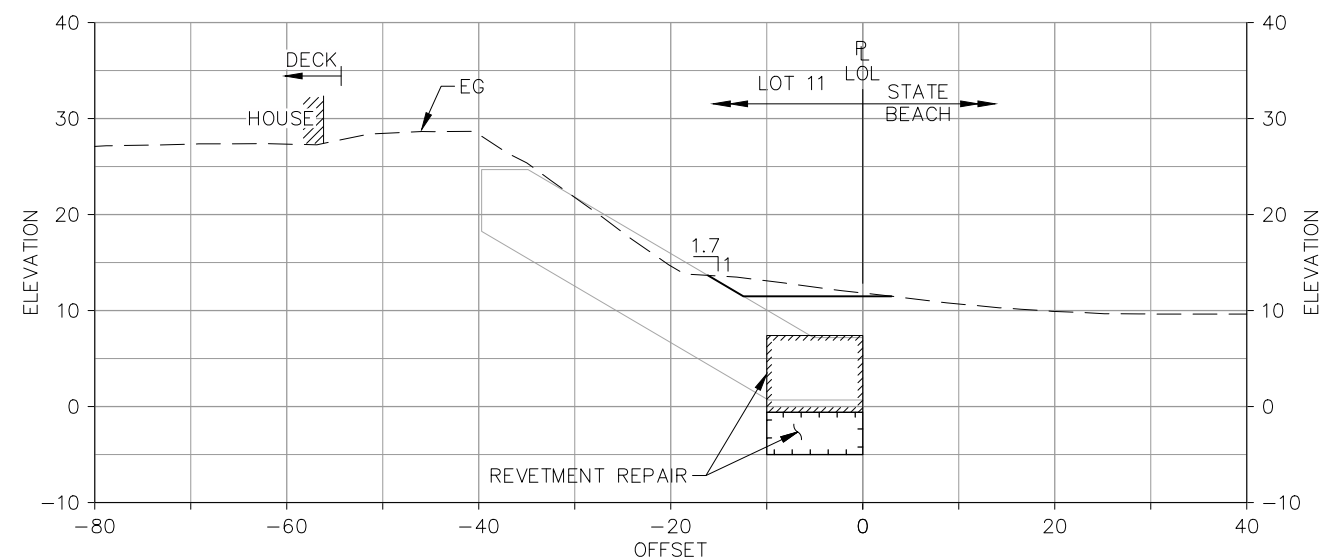
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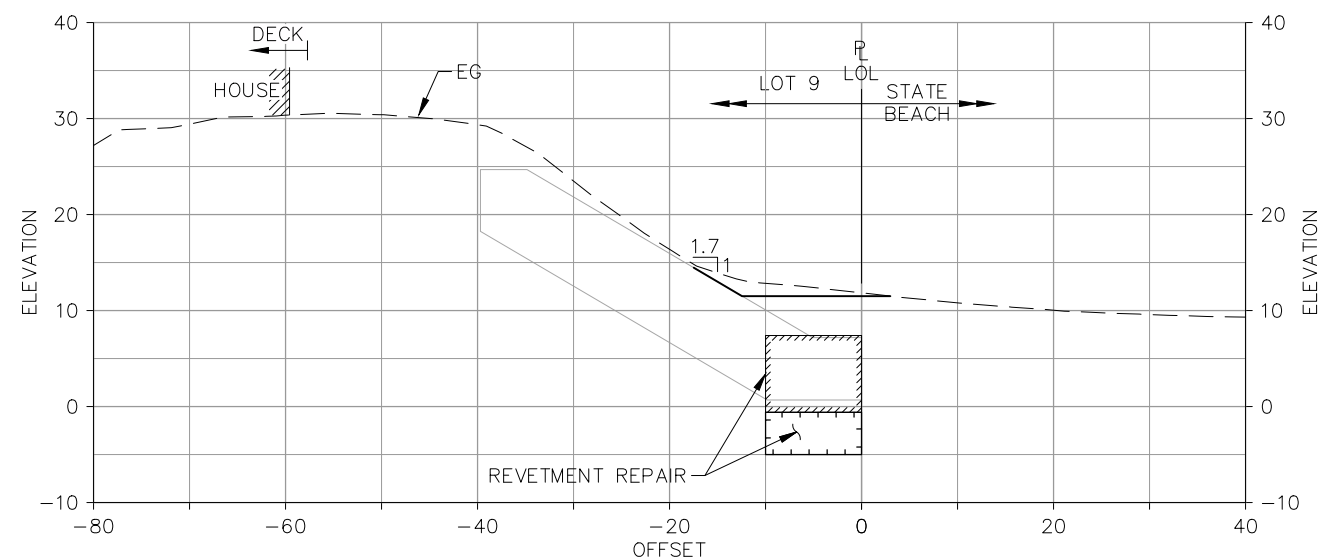
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STA 1+40 **6**



SECTION **LOT 10**
STA 3+00 **6**



SECTION **LOT 11**
STA 2+20 **6**



SECTION **LOT 9**
STA 3+70 **6**

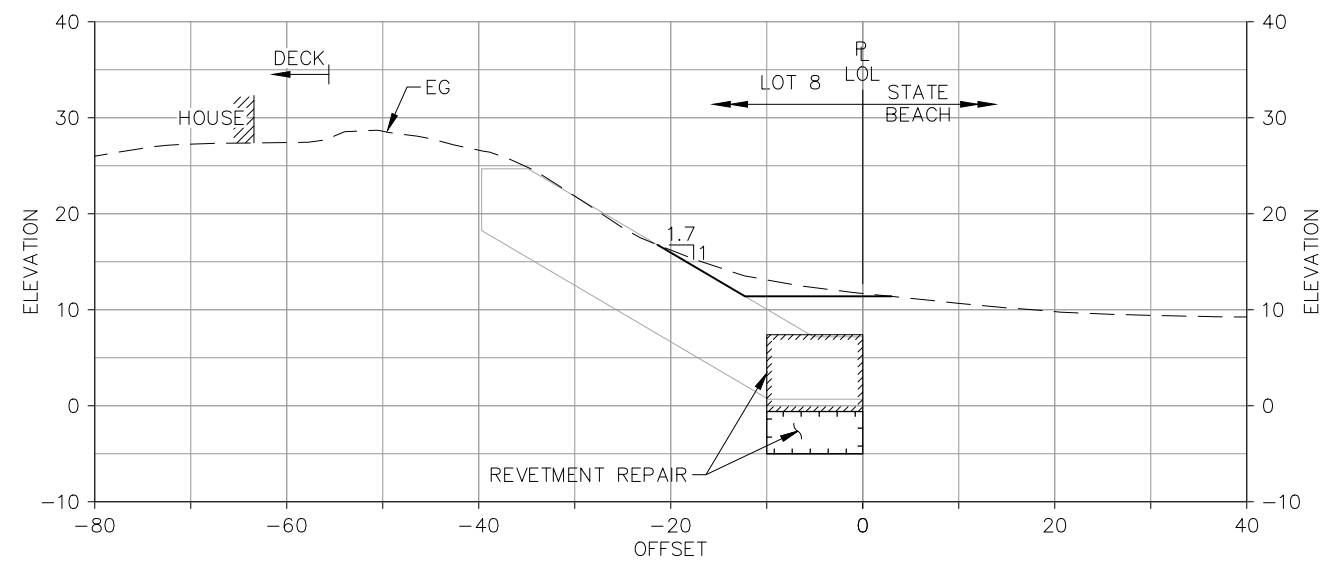


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7 APRIL 2020**

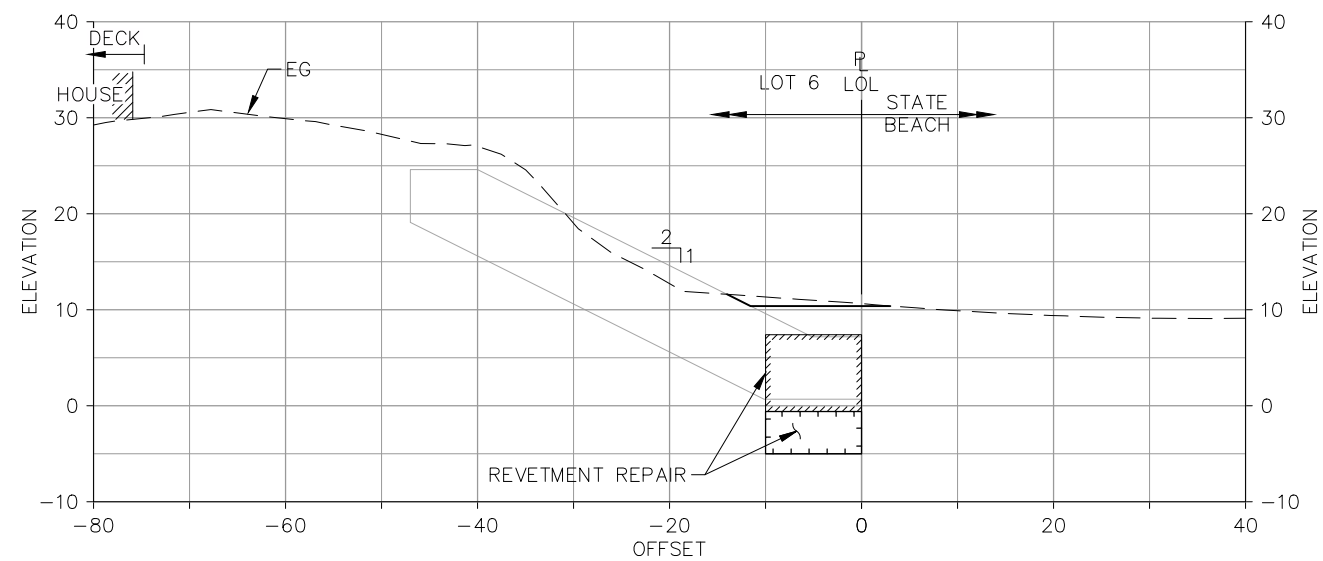


		785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD	
		ROCK REVELMENT REPAIR PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA SECTIONS (1 OF 6)			
DESIGNED XXX	DRAWN XXX	CHECKED P. GREGORY	PROJECT NO. 190780	DATE APRIL 2020	SHEET NO. OF 10 OF 15

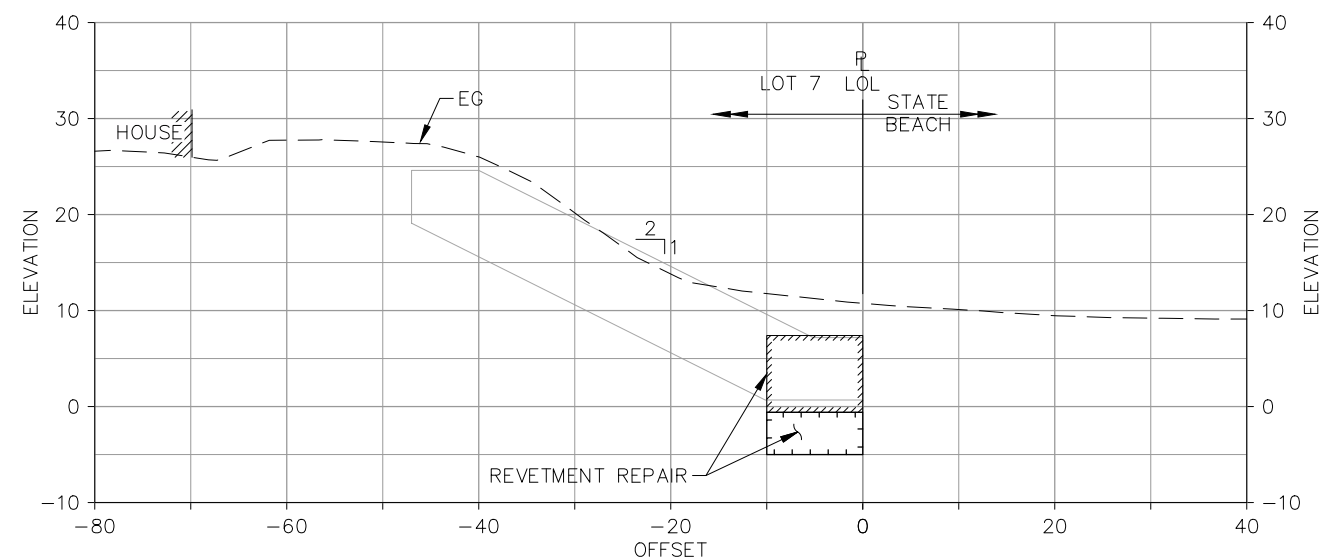
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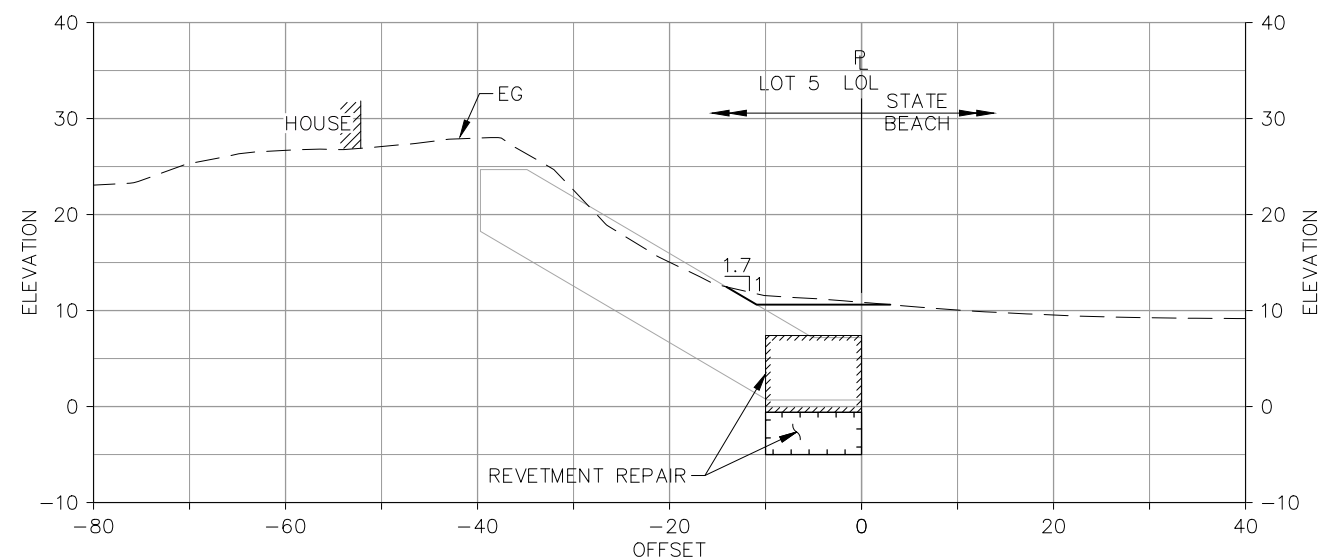
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SECTION **LOT 6**
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SECTION **LOT 7**
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SECTION **LOT 5**
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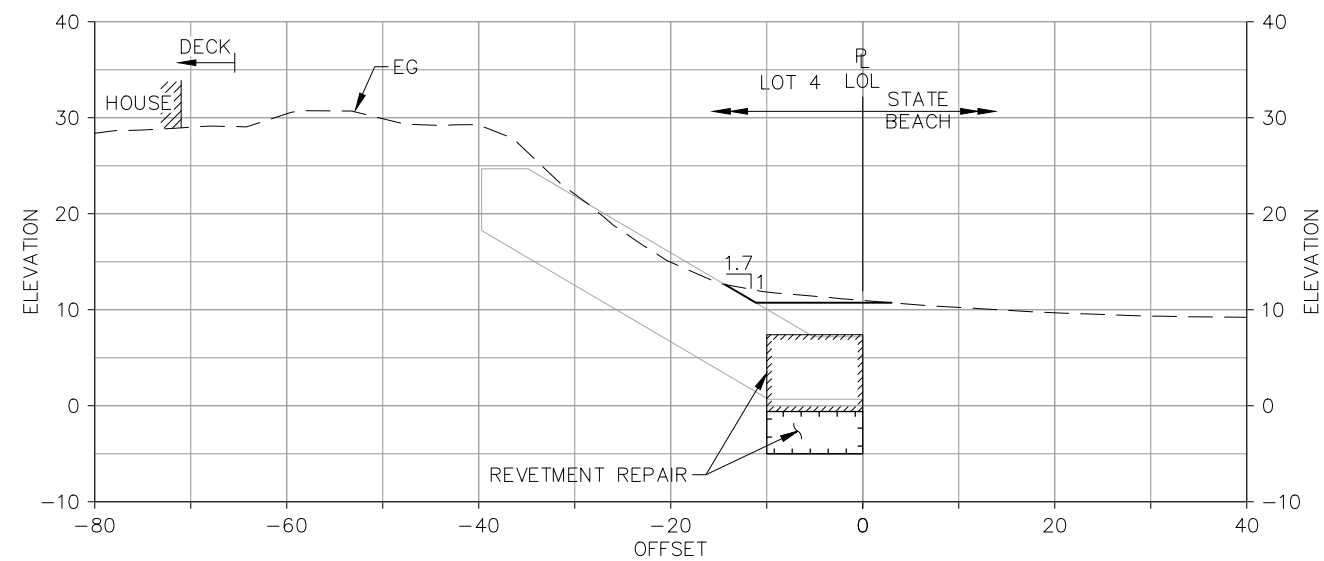


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7 APRIL 2020**

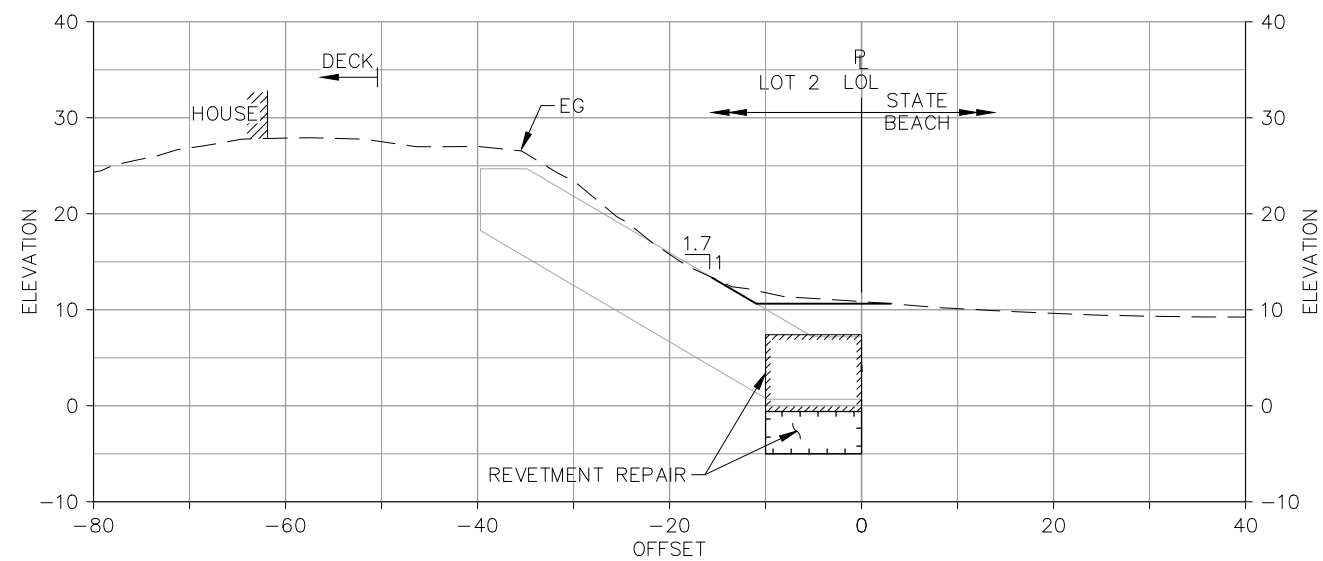


 CAL ENGINEERING & GEOLOGY		785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD ROCK REVTMENT REPAIR PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA SECTIONS (2 OF 6)	
		DESIGNED XXX	DRAWN XXX	CHECKED P. GREGORY	PROJECT NO. 190780

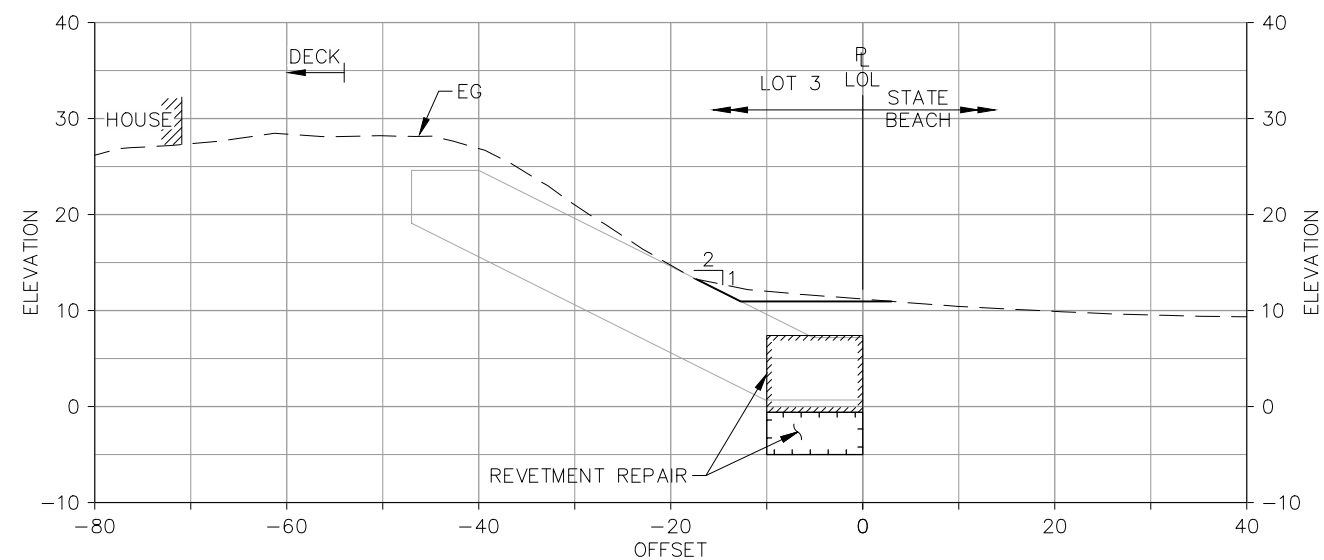
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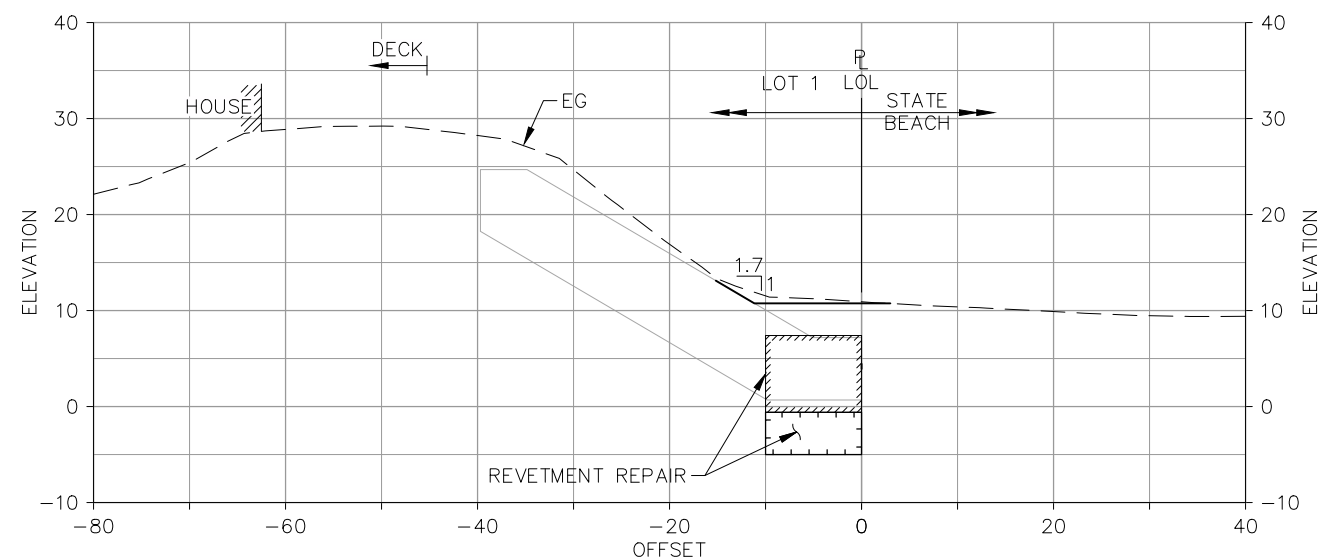
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STA 7+30 **7**



SECTION **LOT 2**
STA 8+80 **7**



SECTION **LOT 3**
STA 8+10 **7**




SECTION **LOT 1**
STA 9+50 **7**

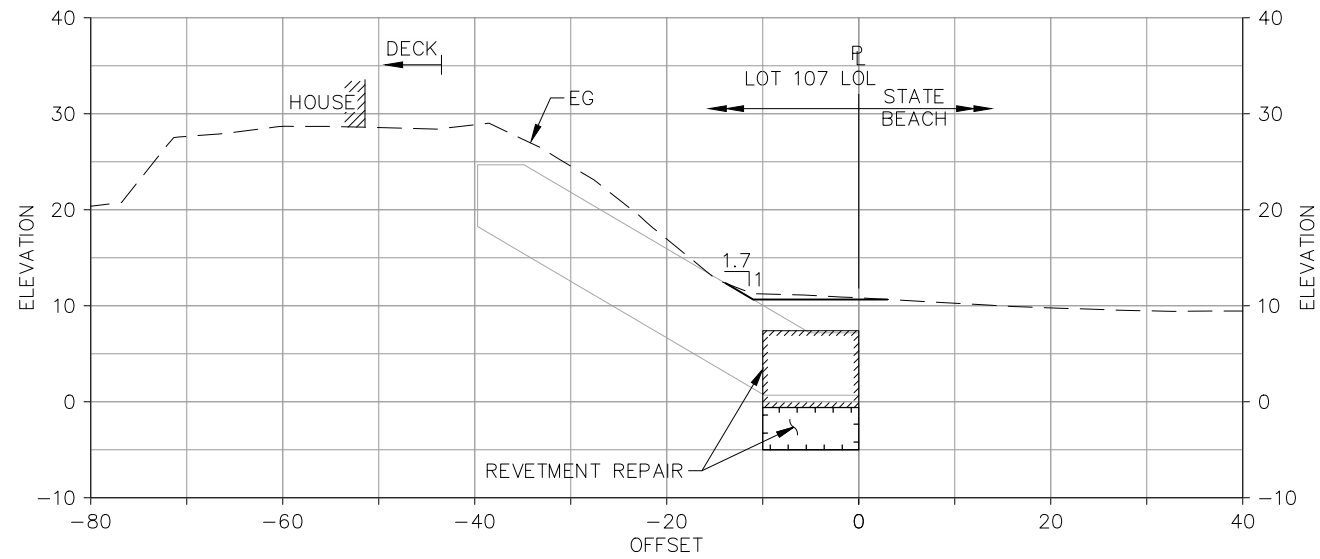


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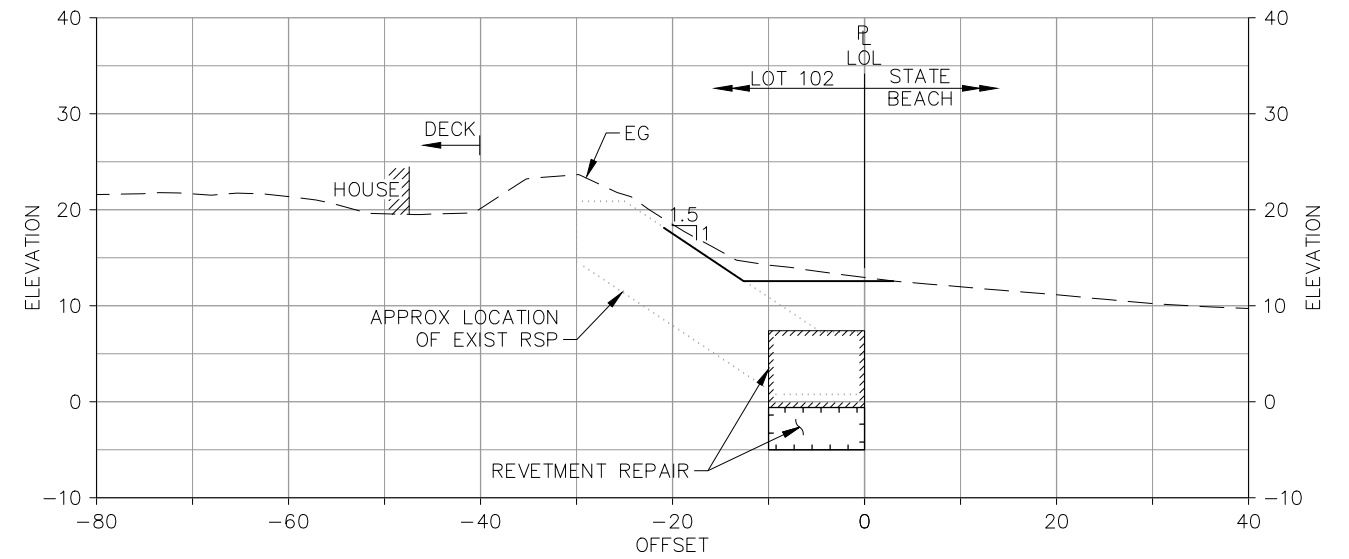


 CAL ENGINEERING & GEOLOGY		785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD ROCK REVELMENT REPAIR PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA SECTIONS (3 OF 6)	
		DESIGNED XXX	DRAWN XXX	CHECKED P. GREGORY	PROJECT NO. 190780

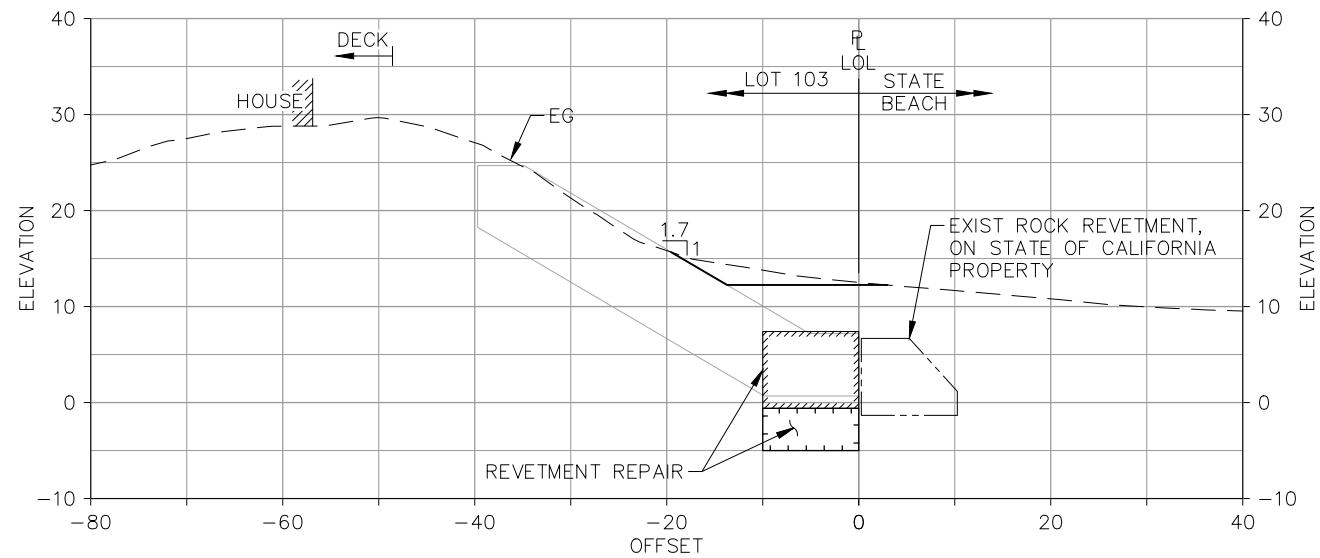
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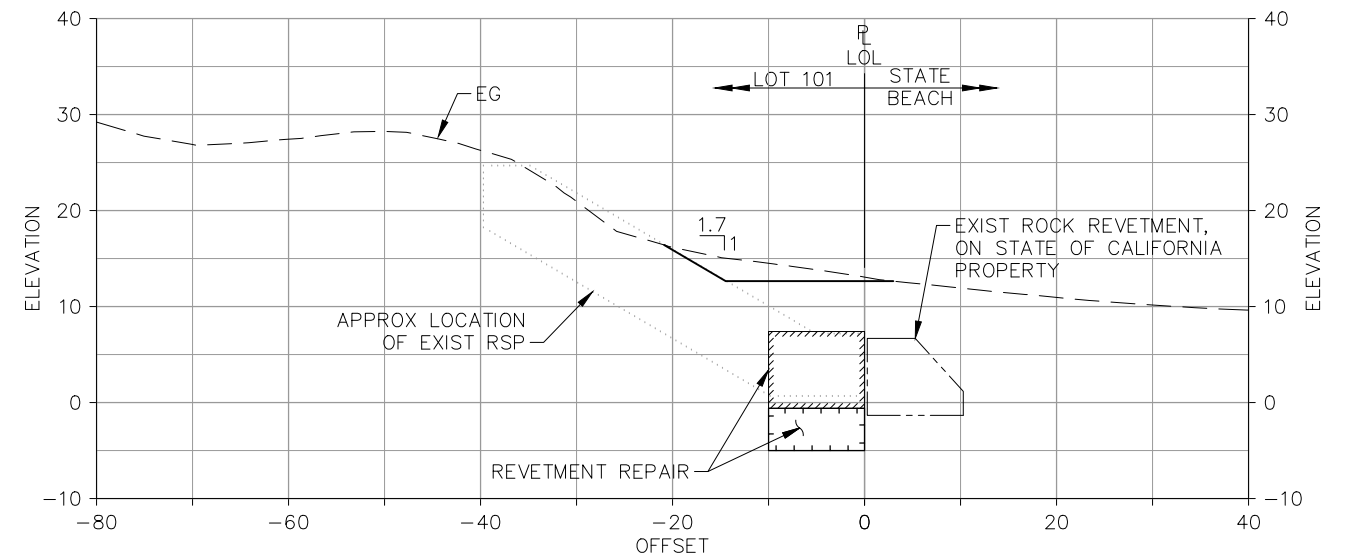
SECTION **LOT 107**
STA 10+20 **7**



SECTION **LOT 102**
STA 13+70 **8**



SECTION **LOT 103**
STA 13+00 **8**




SECTION **LOT 101**
STA 14+40 **8**

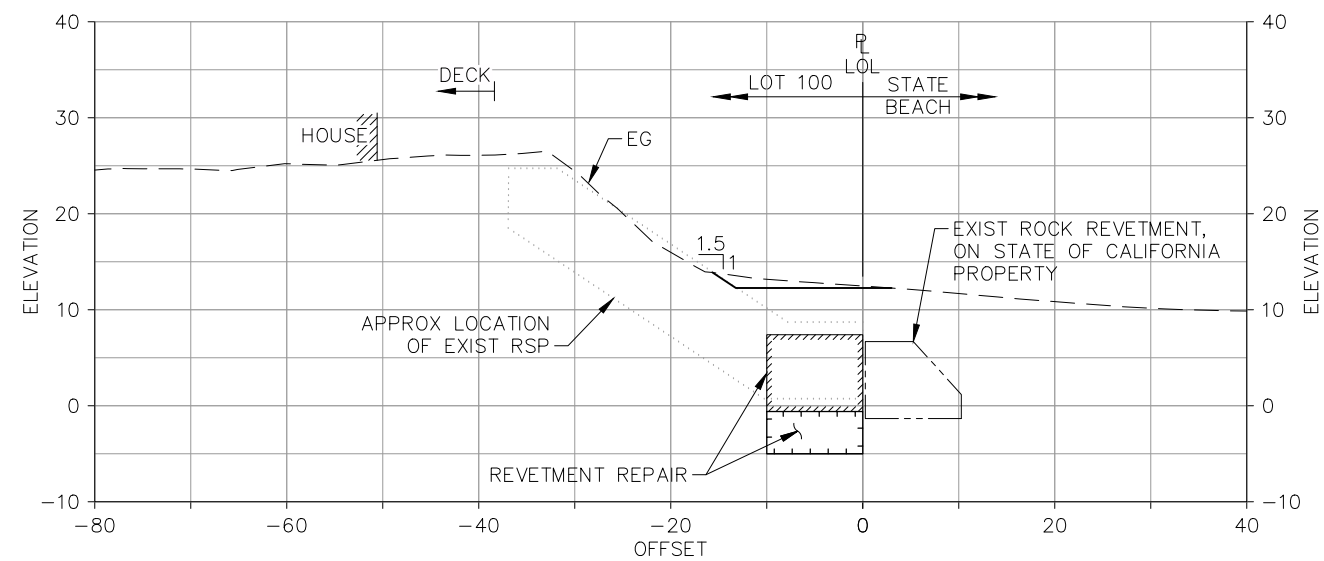


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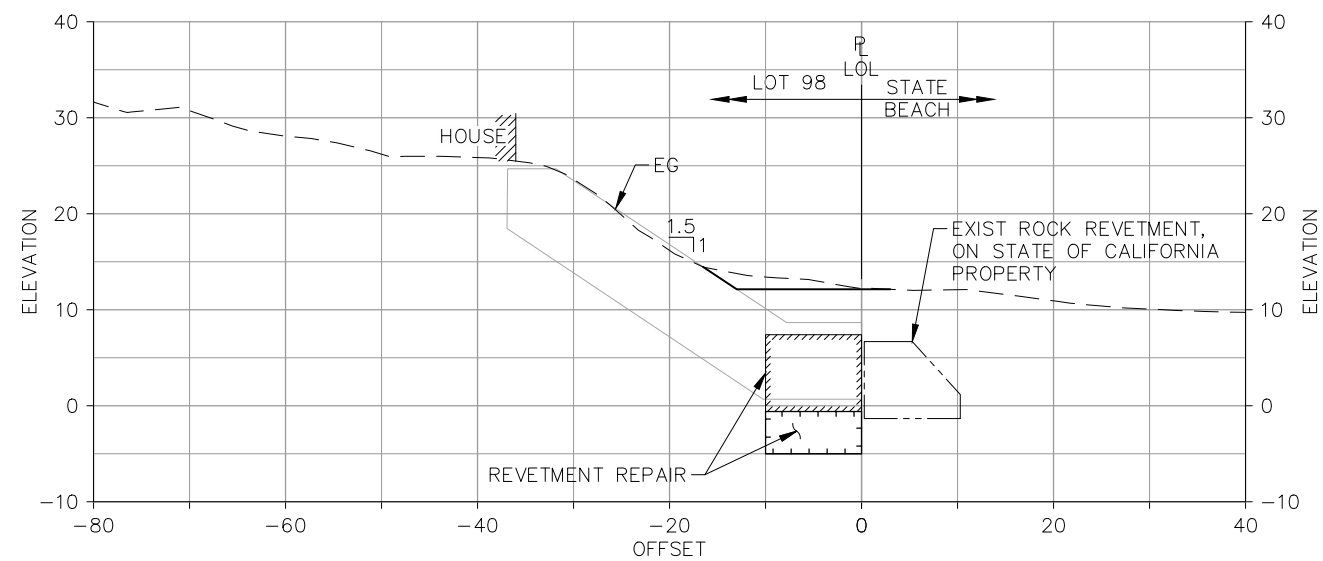


 CAL ENGINEERING & GEOLOGY		785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD	
		ROCK REVETMENT REPAIR PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA SECTIONS (4 OF 6)			
DESIGNED XXX	DRAWN XXX	CHECKED P. GREGORY	PROJECT NO. 190780	DATE APRIL 2020	SHEET NO. OF 13 OF 15

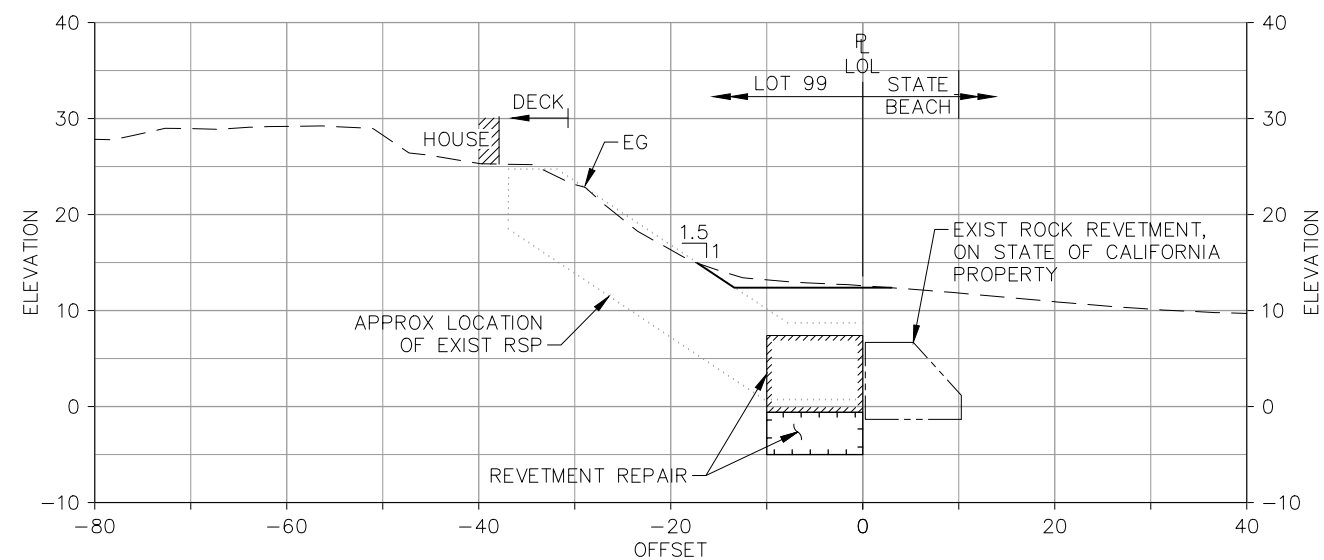
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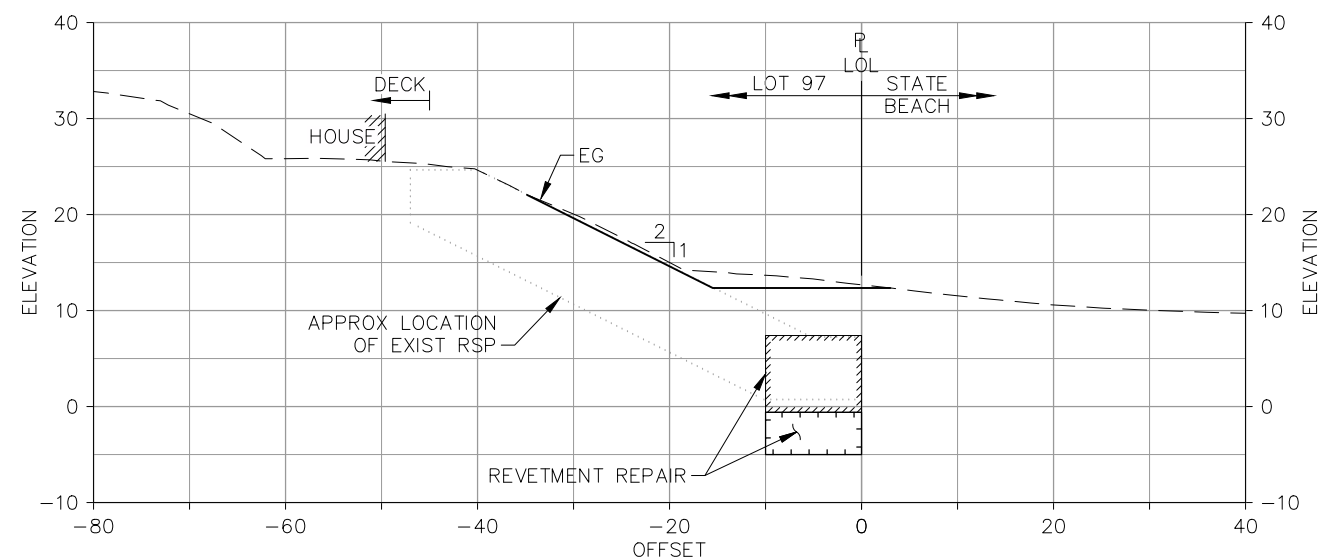
SECTION **LOT 100**
STA 15+10 **8**



SECTION **LOT 98**
STA 16+45 **9**



SECTION **LOT 99**
STA 15+80 **9**



SECTION **LOT 97**
STA 17+15 **9**

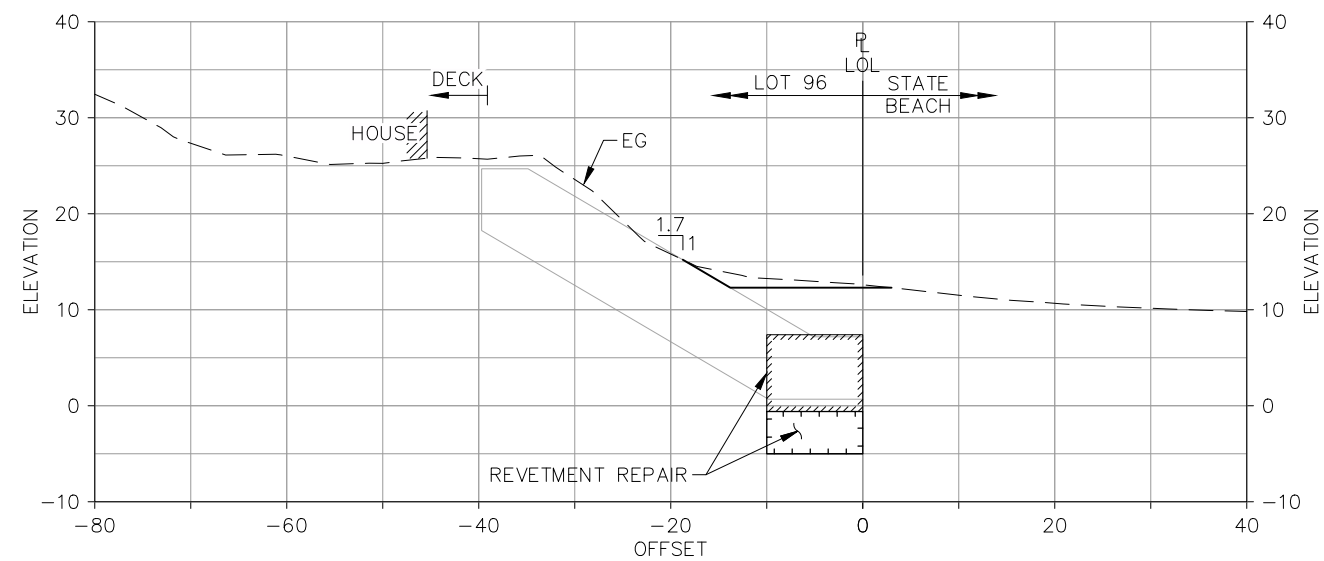


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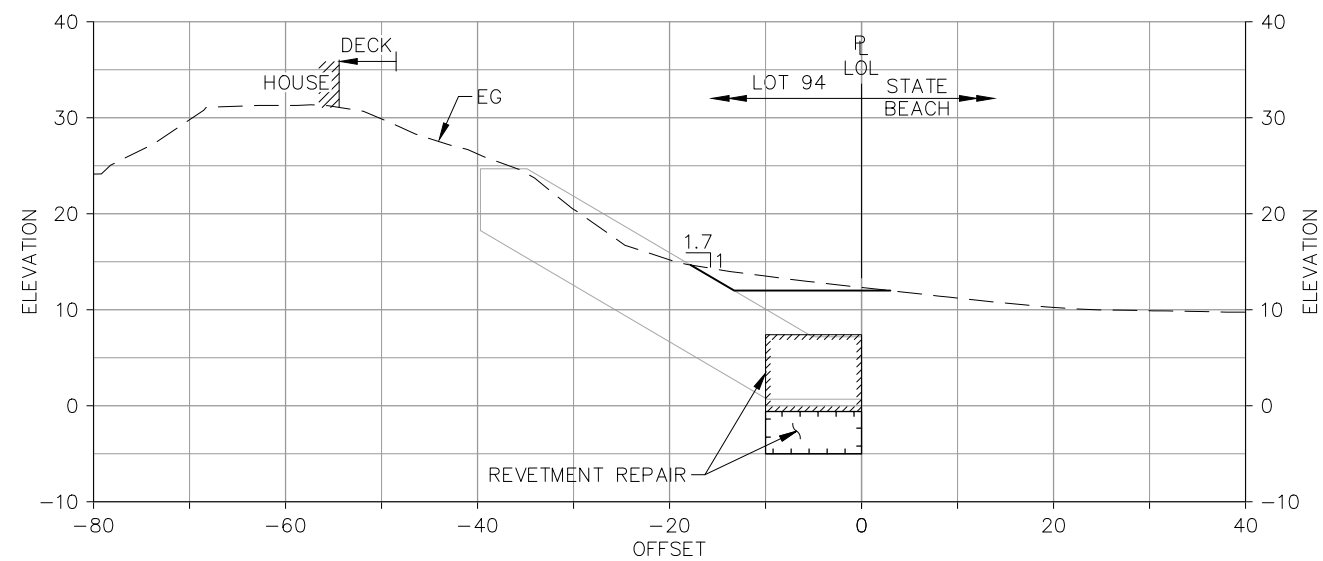


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		ROCK REVETMENT REPAIR PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA SECTIONS (5 OF 6)			
DESIGNED XXX	DRAWN XXX	CHECKED P. GREGORY	PROJECT NO. 190780	DATE APRIL 2020	SHEET NO. OF 14 OF 15

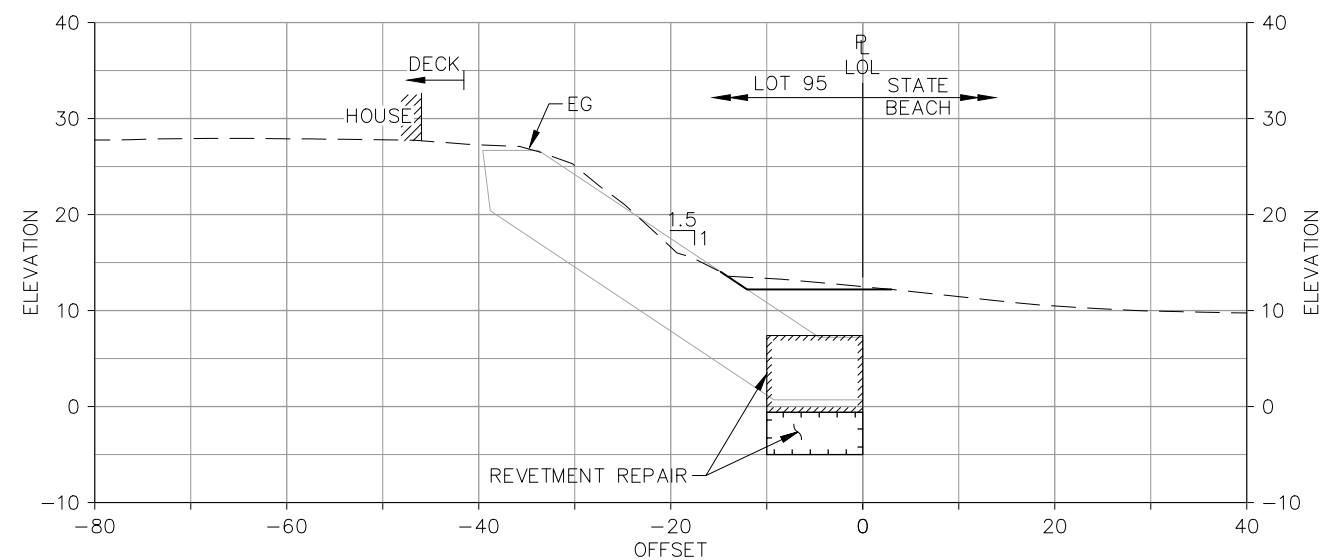
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SECTION LOT 96
STA 17+80 9



SECTION LOT 94
STA 19+25 9



SECTION LOT 95
STA 18+50 9



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DESIGNED XXX	DRAWN XXX	CHECKED P. GREGORY	PROJECT NO. 190780	DATE APRIL 2020	SHEET NO. OF 15 OF 15