

COUNTY OF SANTA CRUZ
PLANNING DEPARTMENT
701 Ocean Street, 4th Floor
Santa Cruz, CA 95060
(831) 454-2580

NOTICE OF PENDING ACTION

The Planning Department has received the following application. The identified planner may be contacted for specific information on this application.

APPLICATON NUMBER: 201126

APN: 043-082-12

SITUS ADDRESS: 325 Beach Dr., Aptos 95003

Proposal to construct a slide debris wall at the rear of an existing single-family dwelling, to demolish and replace a wood lagging wall topped by a wire fence and to remove existing ice plant and revegetate the hillside, in the R-1-6 zone district. Requires a Coastal Development Permit. A determination is also required that the project is exempt from further review under the California Environmental Quality Act. Property located on the north side of Beach Drive (325 Beach Drive) approximately one-quarter mile east of the intersection with Rio del Mar Boulevard/Aptos Beach Drive in the Aptos Planning Area.

OWNER: Michael & Catherine Dobrin

APPLICANT: Dee Murray

SUPERVISORIAL DISTRICT: 2

PLANNER: Lezanne Jeffs, (831) 454-2480

EMAIL: Lezanne.Jeffs@santacruzcounty.us

Public comments must be received by 5:00 p.m. June 26, 2020.

A decision will be made on or shortly after June 29, 2020.

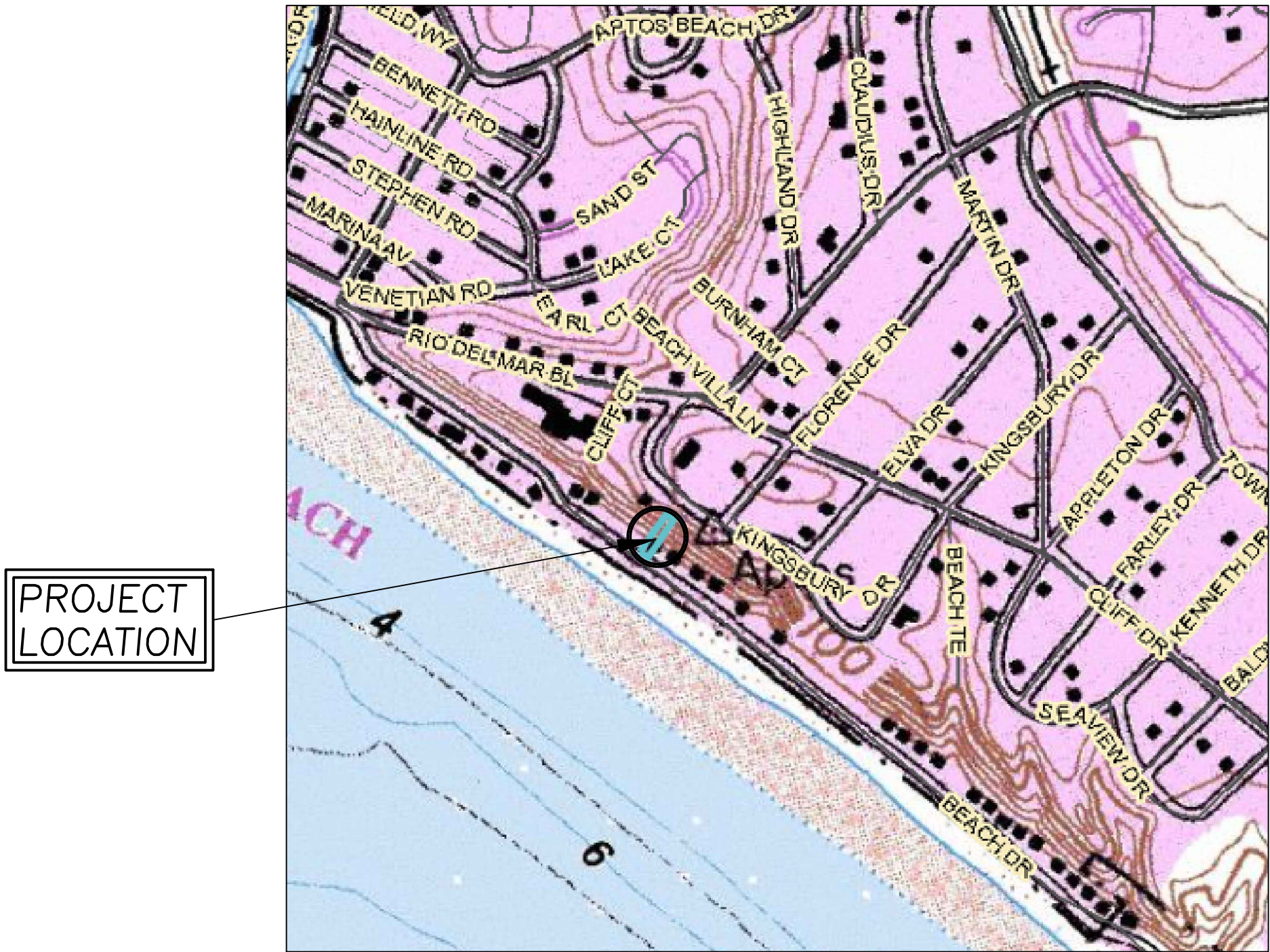
Appeals of the decision will be accepted until 5:00 p.m. two weeks after the decision date.

If you would like to request a public hearing be held for this item, please contact the project planner listed on this notice. Information regarding the appeal process, including required fees, may be obtained by phoning (831) 454-2130.

For more information, contact the project planner identified above.

325 BEACH DRIVE

DEBRIS WALL 100% DESIGN PLAN



VICINITY MAP
N.T.S. (USGS)



REGIONAL MAP
N.T.S. (GOOGLE)

SHEET INDEX

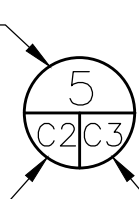
- C1 TITLE SHEET
C2 SITE PLAN
S1 STRUCTURAL SHEET S1 DATED 9-16-19 PREPARED BY DUQUETTE ENGINEERING

GENERAL NOTES

1. BASE MAP OF SITE PLAN PREPARED IN THE FIELD USING 100 FT HAND TAPE AND CLINOMETER
2. IN CONJUNCTION WITH THESE PLANS ALL CONSTRUCTION SHALL FOLLOW THE RECOMMENDATIONS IN THE GEOTECHNICAL INVESTIGATION FOR DEBRIS FLOW WALL, CATCH BASIN, & REINFORCED STRUCTURAL WALL AT 325 BEACH DRIVE DATED 22 SEPTEMBER 2017 AND THE GEOTECHNICAL SUPPLEMENTAL LETTER & PLAN REVIEW DATED 25 OCTOBER 2019 BY HARO, KASUNICH & ASSOCIATES.
3. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE 2018 EDITION OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS, ISSUED BY THE DEPARTMENT OF TRANSPORTATION (HEREAFTER REFERRED TO AS "STANDARD SPECIFICATIONS").
4. SPECIAL INSPECTIONS TO BE PERFORMED BY HARO, KASUNICH AND ASSOCIATES INC. OR APPROVED EQUIVALENT.
5. ALL WORK INDICATED ON THE PLANS SHALL CONFORM WITH THE FOLLOWING CODES; 2016 CBC, CAL GREEN, AND SCMC TITLE 18.

SECTION AND DETAIL CONVENTION

SECTION OR DETAIL IDENTIFICATION
(NUMBER OR LETTER)



REFERENCE SHEET FROM WHICH
DETAIL OR SECTION IS TAKEN.

REFERENCE SHEET ON WHICH
SECTION OR DETAIL IS SHOWN.

PROJECT DESCRIPTION

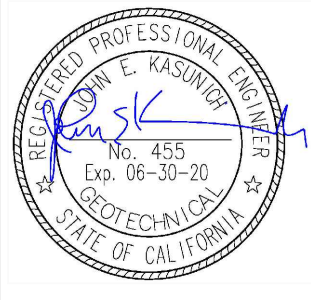
THESE DRAWINGS PROVIDE 100% DESIGN LEVEL DETAILS FOR THE CONSTRUCTION OF A 23 LINEAR FOOT, 5 FEET TALL DEBRIS WALL AT THE RESIDENCE BLUFFTOE PERIMETER.

WORK SHALL CONSIST OF 1) UTILIZATION OF EXISTING BACKYARD SPACE TO ACT AS A DEBRIS CATCH BASIN 2) CONSTRUCTION OF 5 FT. HIGH STRUCTURALLY REINFORCED CONCRETE WALL ADJACENT THE EXISTING RESIDENCE AND 3) INSTALLATION OF HELICAL PILES +/- 15 FT. LONG IN RETAINING WALL FOOTING. 4) REVEGETATE THE COASTAL BLUFF AND ERECT A DEER FENCE

THREE PRIMARY LANDSLIDE OR SLOPE FAILURE SCENARIOS ARE POSSIBLE ON THE SLOPE BEHIND AND ABOVE THE REFERENCED RESIDENCE. THIS PLAN SET ONLY EVALUATES AND DESIGNS FOR POTENTIAL DEBRIS FLOW LANDSLIDES ON THE FACE OF THE COASTAL BLUFF INCLUDING THE ASSOCIATED DEBRIS IMPACT VELOCITIES AND ESTIMATED IMPACT FORCES AGAINST THE NEW DEBRIS FLOW WALL, PATIO, AND STRUCTURAL WALL AGAINST THE BASE OF THE BACK WALL OF THE HOUSE. THE THREE PRIMARY LANDSLIDES SCENARIOS ARE:

1. SHALLOW BLUFF TOP WEDGE OR ARCULATE TYPE FAILURE INVOLVING COLLUVIUM, MARINE TERRACE DEPOSITS AND WEATHERED PURISIMA FORMATION WITH RELATIVELY HIGH IMPACT LOADS DUE TO THE LARGE VERTICAL DROP HEIGHT TO THE RESIDENCE;
2. SEISMICALLY INDUCED 20 FEET THICK PLANAR OR TRANSLATIONAL SLIDE TYPE FAILURE ALONG THE BLUFF FACE WITH A SHORTER DROP HEIGHT BUT GREATER SLIDE MASS VOLUME; AND
3. TEN FEET THICK, SATURATED PLANAR FAILURE OF BLUFF FACE DURING INTENSE RAINFALL OR CAUSED BY A WATER LINE BREAK REPRESENTING AN EXTREME CASE OF A DEBRIS FLOW TYPE LANDSLIDE.

THE EXISTING CATCH BASIN, AND PROPOSED REINFORCED STRUCTURAL DEBRIS WALL ADJACENT THE HOME, ADDRESSES SCENARIO NO. 1, WHICH INCLUDES SHALLOW BLUFF TOP WEDGE OR ARCULATE TYPE FAILURE THAT INCLUDE LANDSLIDE VOLUMES OF ABOUT 4 CUBIC YARDS OF DEBRIS PER LINEAL FOOT OF BLUFF FACE. IT DOES NOT ADDRESS SCENARIO NO. 2; SEISMICALLY INDUCED +/- 20 FEET THICK, PLANAR OR TRANSLATIONAL SLIDE TYPE FAILURES. A LARGE SEISMIC SLOPE FAILURE WILL DAMAGE AND OVERTOP THE PROPOSED DEBRIS FLOW WALL AND FILL THE EXISTING CATCH BASIN. TO MITIGATE POTENTIAL LARGE TRANSLATIONAL SLIDING, THE EXISTING HOME WOULD HAVE TO BE SIGNIFICANTLY ELEVATED ABOVE GRADE OR REBUILT INTO THE HILLSIDE AND DESIGNED AS A "BUNKER HOUSE" THAT WOULD BE ABLE TO RESIST THE LARGE IMPACT AND SUPPORT ANY SLIDE DEBRIS THAT COVERS THE ROOF OF RESIDENCE. THE PROPOSED DEBRIS WALL, EXISTING CATCH BASIN, AND PROPOSED REINFORCED STRUCTURAL WALL ADJACENT THE HOME WILL PARTIALLY ALLEVIATE SCENARIO NO. 3 BUT OVERTOPPING OF THE BASE WALL WILL OCCUR WITH SOME DEBRIS IMPACTING AND POTENTIALLY DAMAGING THE RESIDENTIAL STRUCTURE.



DATE	REVISION	BY
20 OCT 19	1	AK
25 JAN 20	2	AK
	3	AK

HARO, KASUNICH & ASSOCIATES
GEOTECHNICAL AND COASTAL ENGINEERS
116 EAST LAKE AVENUE, WATSONVILLE, CALIFORNIA 95076
(831) 722 4175 PHONE AND (831) 722-3202 FAX

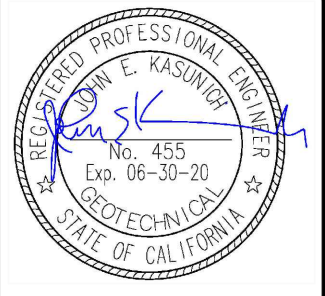
DEBRIS WALL
MIKE AND CATHERINE DOBRIN, APN 043-08-212
325 BEACH DRIVE
SANTA CRUZ COUNTY, CA 95003

PROJECT:	45911
DATE:	FEB 2020
DESIGN:	AK/JK
DRAWN:	AK
SCALE:	AS SHOWN

C1



SITE PLAN
SCALE: 1" = 6'



DATE	REVISION	BY
29 OCT 19	Δ	AK
29 JAN 20	Δ	AK
	Δ	Δ

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116 EAST LAKE AVENUE, WATSONVILLE, CALIFORNIA 95076
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DEBRIS WALL SITE PLAN
MIKE AND CATHERINE DOBRIN, APN 043-08-212
325 BEACH DRIVE
SANTA CRUZ COUNTY, CA 95003

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C1.1



SITE PLAN
SCALE: 1" = 6'

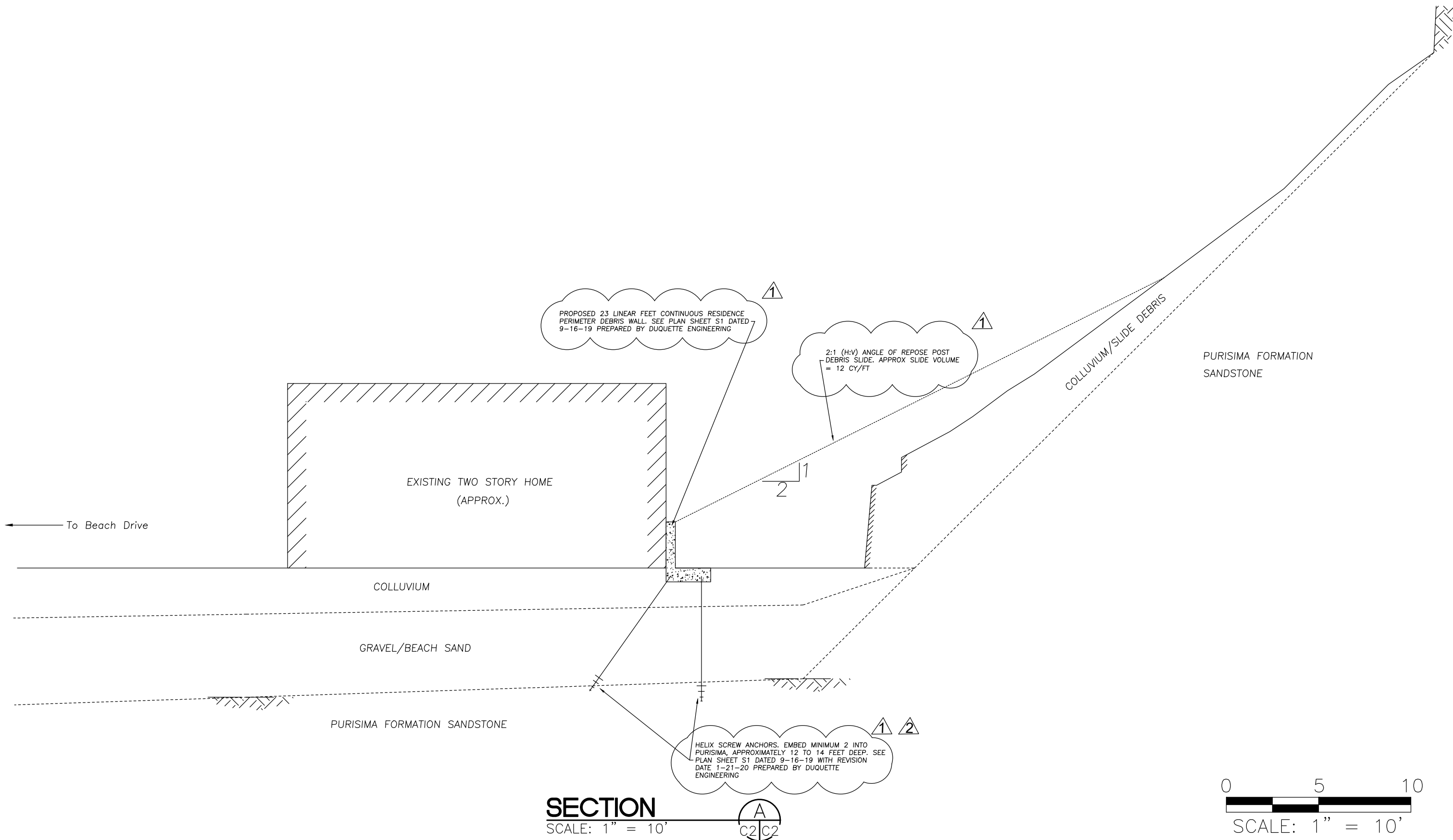
GEOTECHNICAL DESIGN NOTES:

1. A REPRESENTATIVE OF HARO, KASUNICH & ASSOCIATES SHOULD OBSERVE HELICAL ANCHOR INSTALLATION.
2. THE 5 FT. REINFORCED CONCRETE WALL SHOULD BE DESIGNED TO ABSORB AN IMPACT LOAD OF 1790 PSF ACTING AGAINST THE FULL HEIGHT OF THE WALL.
3. THE DEBRIS MATERIAL THAT FILLS THE CATCH BASIN SHOULD BE REMOVED AFTER EACH INCIDENT SO THAT THE STORAGE AND CATCH BASIN AREA MAINTAIN ITS PROTECTIVE VOLUME AND THE 5 FT. HIGH REINFORCED CONCRETE WALL CAN FUNCTION AGAIN.
4. THE EXPOSED SUBGRADE AT THE BOTTOM OF THE NEW DEBRIS WALL FOOTING EXCAVATION SHOULD BE SCARIFIED 8 INCHES AND COMPACTED TO 95% RELATIVE COMPACTION WITH VIBRATORY TURTLE OR JUMPING JACK. THIS WILL PROVIDE A SUBGRADE MODULUS OF K=300 PCI AND BEARING CAPACITY = 4000 PSF.

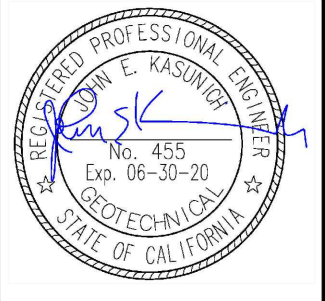
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SECTION
SCALE: 1" = 10'



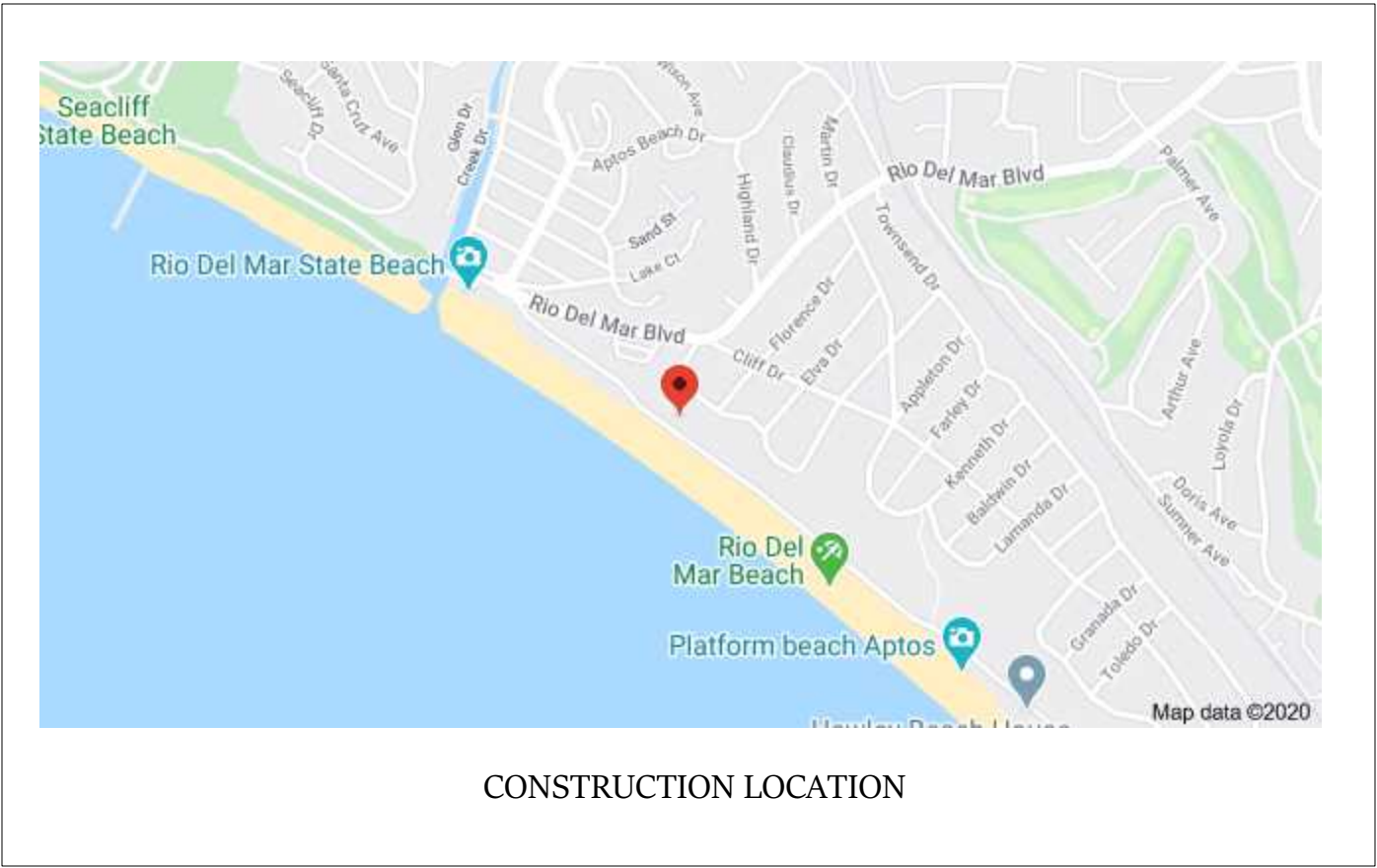
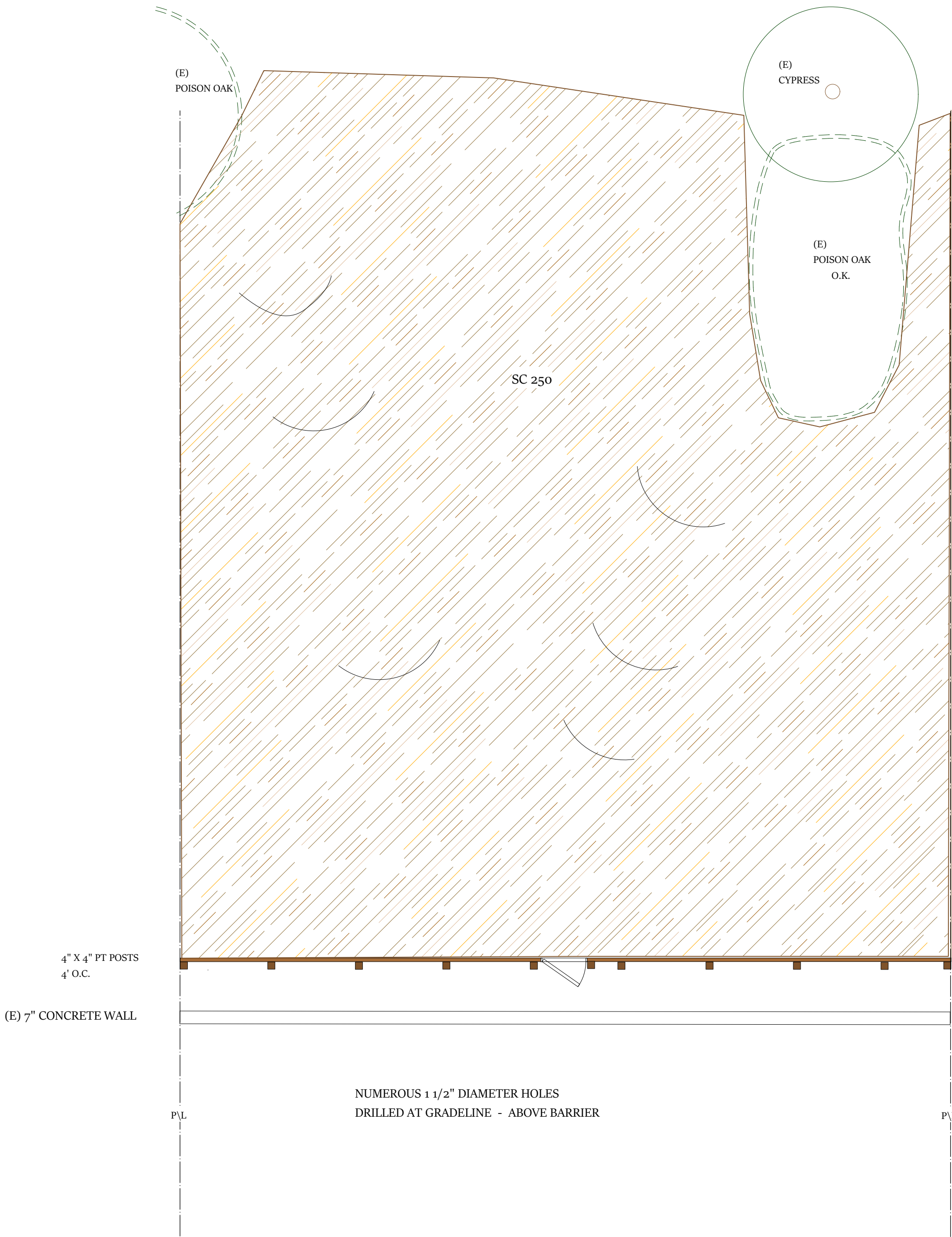
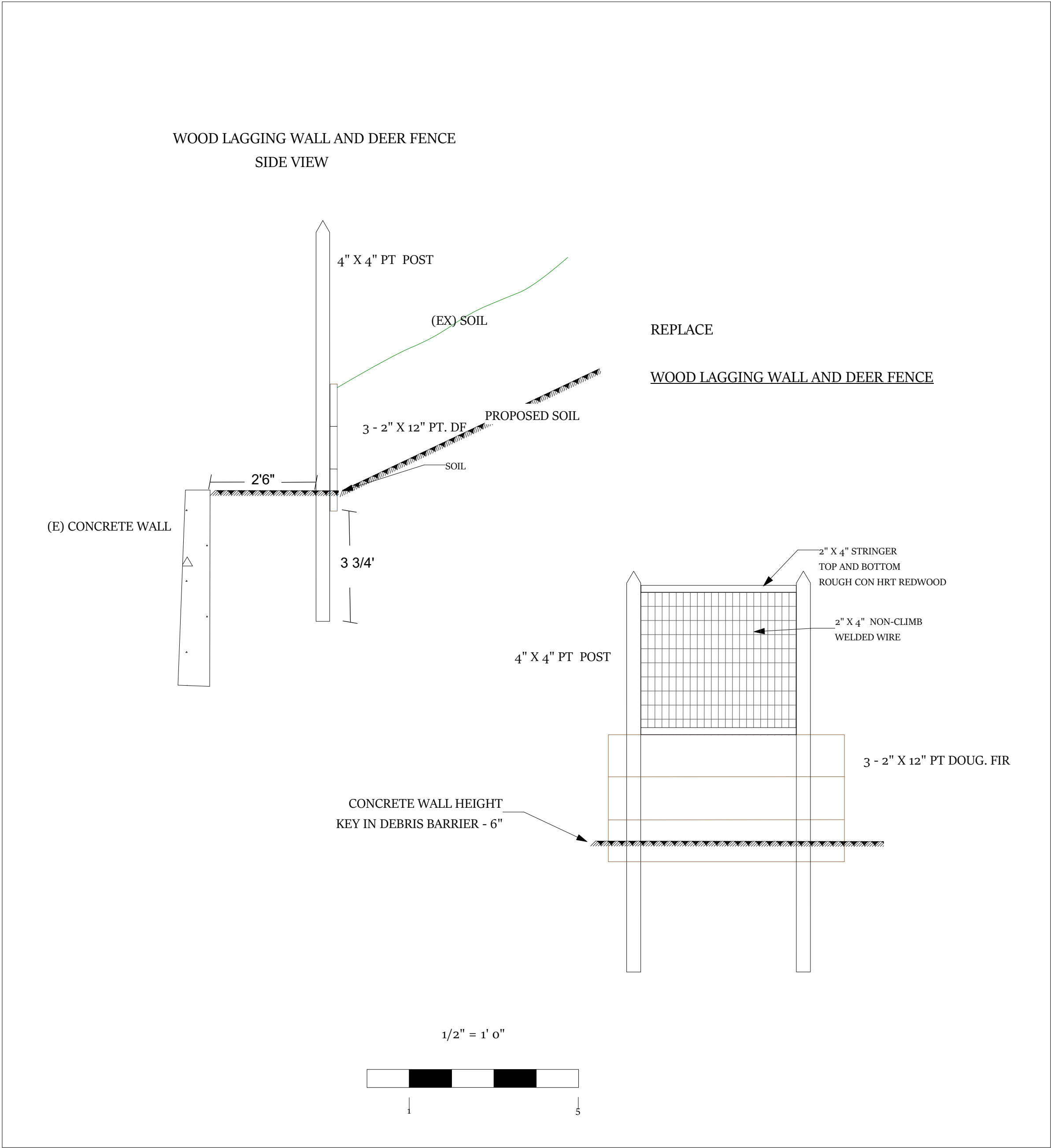
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DEBRIS WALL SITE PLAN
MIKE AND CATHERINE DOBRIN, APN 043-08-212
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C2



CONSTRUCTION NOTES:

REMOVE ALL ICE-PLANT
REMOVE ALL HUMMOCKS AND EXCESS SOIL DEPOSITS; HAUL APPROX. 24 CU.YDS. SOIL
GRADE FOR EVEN CONTOURS, GRADE OUT LOW AREAS, COMPACT

SEED HILL SIDE WITH 6 SEED NATIVE GRASS BLEND 2 1/2 LBS/1,000
BARLEY EROSION SEED 4 LBS/1,000
AND 16-20-0 FERTILIZER

INSTALL 1730 SQ. FT. NORTH AMERICAN GREEN (NAG) VMAX SC 250 STRAW / COCONUT FIBER
TURF REINFORCEMENT MATTING (TRM) SECURED WITH 12" AND 18" PINS

REPLACE WOOD LAGGING WALL AND DEER FENCE

APN 043-08-212

REVISIONS

3835 N. Main Street
Sausalito, CA 94965-2532
831-476-5989 Fax: 831-476-0383
www.primelandscape.com
John David
jd@primelandscape.com
Sustainable & Certified Control Specialist # 433
Sustainable & Certified Control Specialist # 433

Mike and Catherine Dobrin
325 Beach Drive
Aptos, CA - 95003

DRAWN BY
Donna Gallagher

DATE
MARCH 27, 2020

SCALE AS NOTED

SHEET NO.
1 of 1