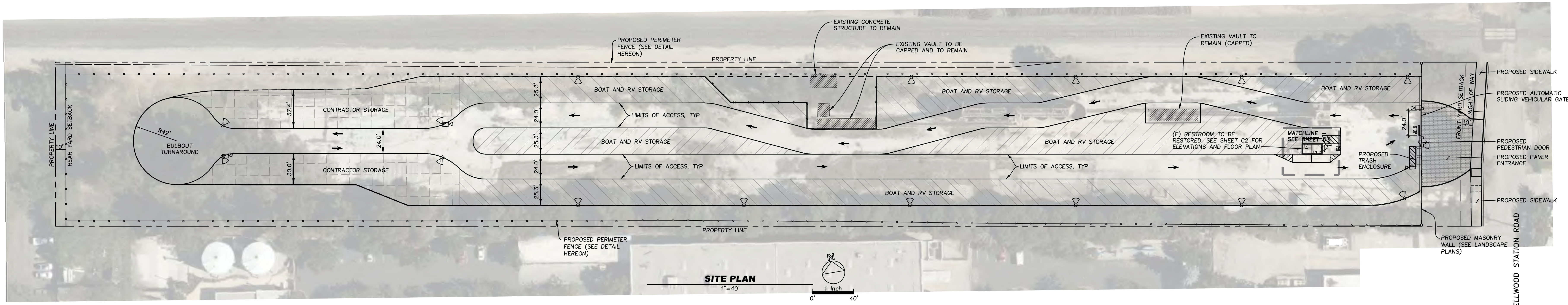


ELLWOOD STATION STORAGE YARD PRELIMINARY IMPROVEMENT PLAN

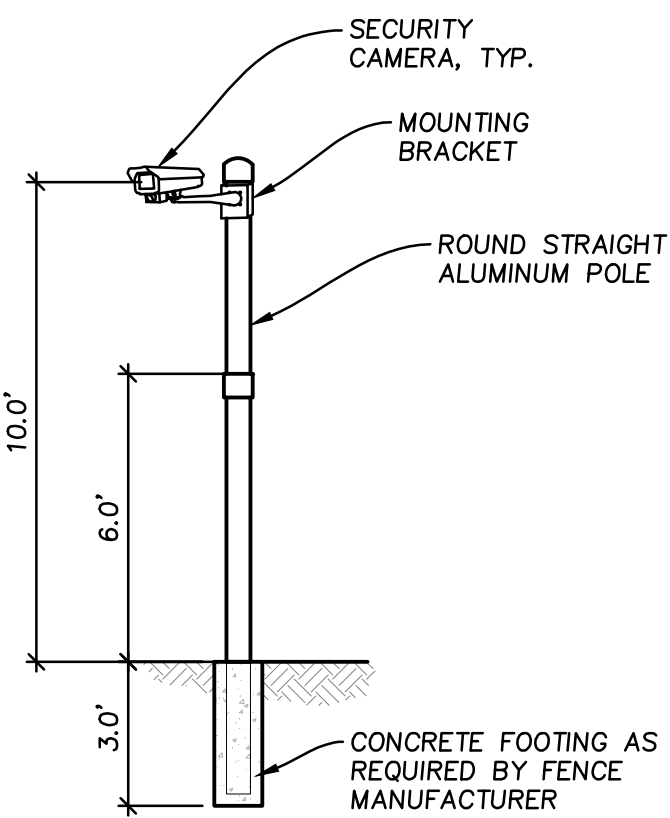
20-0003-CUP
GOLETA, CA. 93117
APN: 079-210-066



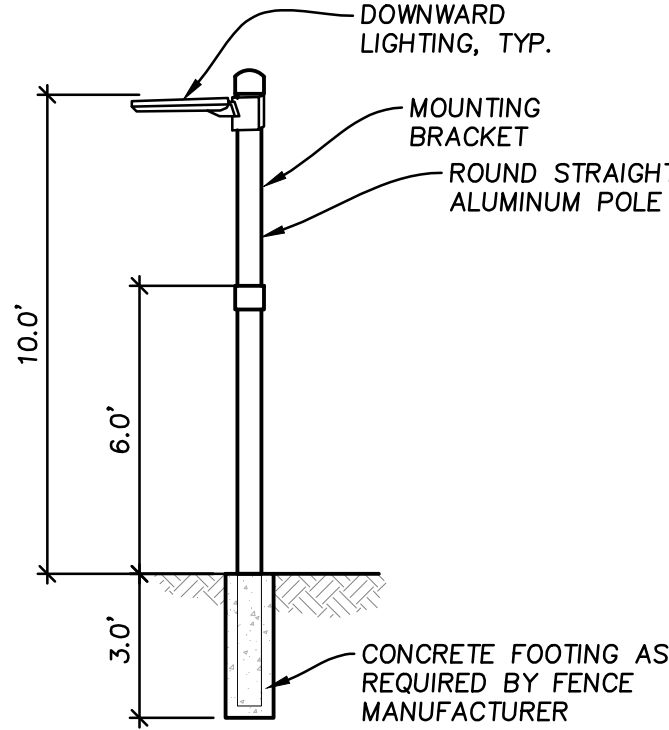
- LEGEND**
- "FLEX" STORAGE AREA, NOT MORE THAN 200 SPACES
(SEE IMAGE BELOW FOR PORTABLE PARTITION CONCEPT)
- 60,341 SF (1.39 AC)
BOAT AND RV STORAGE
 - 18,423 SF (0.42 AC)
CONTRACTOR STORAGE
 - LED LIGHTS WITH MOTION SENSOR
POSITION LIGHTS FACING DOWNWARD.
POLE OR SURFACE MOUNTED AT 8'
 - PROPOSED SECURITY CAMERA,
MOUNTED AT 10'



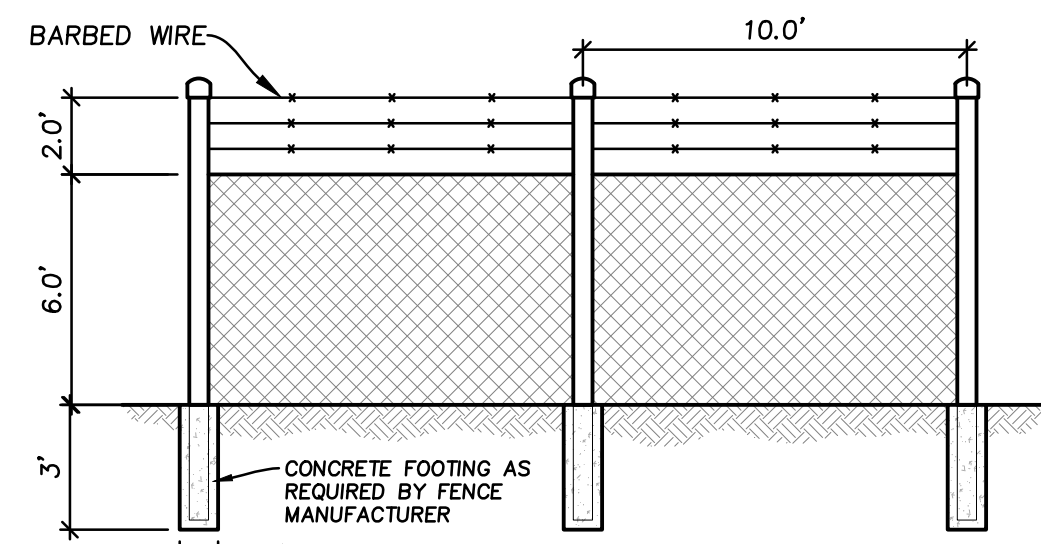
FLEX STORAGE AREA DETAIL



SECURITY CAMERA DETAIL



SECURITY LIGHT DETAIL



PERIMETER FENCE DETAIL

VICINITY MAP



SITE STATISTICS

ADDRESS: 35 ELLWOOD STATION ROAD
GOLETA, CA. 93117
APN: 079-210-066
LOT SIZE: 215,953 S.F./4.96 AC (GROSS)
211,968 S.F./4.87 (NET)

PROJECT CLEAN WATER STATISTICS

NEW IMPERVIOUS SURFACES: 0 SF
REPLACED IMPERVIOUS SURFACES: 190 SF (RESTROOM)
REMOVED IMPERVIOUS SURFACES: 7,276 SF
TOTAL NET IMPERVIOUS SURFACE = 190 SF - 7,276 SF
= <0 SF

PRELIMINARY GRADING STATISTICS

CUT 1,000 CY
FILL 1,000 CY

ASSUMPTIONS:
1) EARTHWORK IS CALCULATED FROM EXISTING GROUND SURFACE TO PROPOSED SUBGRADE. STRUCTURAL SECTION ASSUMED TO BE 8".
2) NO FACTOR HAS BEEN PROVIDED FOR SHRINKAGE, BULKING, SUBSIDENCE, REMOVAL/RECOMPACTION, OR DEMOLISHED AND RELOCATED MATERIALS.
3) ALL QUANTITIES ARE PRELIMINARY IN NATURE FOR PLANNING PURPOSES ONLY.

TOPOGRAPHIC INFORMATION

TOPOGRAPHIC MAP, BOUNDARY AND EASEMENT INFORMATION
PREPARED BY: STANTEC

VERTICAL DATUM: NAVD88, DEFINED LOCALLY BY THE
NATIONAL GEODETIC SURVEY (NGS)

HORIZONTAL DATUM: NAD83(2011), ZONE 5 GRID (EPOCH
2017.5)

ABBREVIATIONS

AC	ASPHALT CONCRETE	N.T.S.	NOT TO SCALE
BW	BACK OF WALK	PP	POWER POLE
C	COMMUNICATIONS	RIM	TOP OF STRUCTURE
CLF	CHAIN LINK FENCE	S	SEWER
CO	CLEANOUT	SD	STORM DRAIN
E	ELECTRICAL	SDMH	STORM DRAIN MANHOLE
EP	EDGE OF PAVEMENT	SL	SEWER LATERAL
FF	FINISHED FLOOR	SSMH	SEWER MANHOLE
FG	FINISHED GRADE	STBK	SETBACK
FH	FIRE HYDRANT	TG	TOP OF CURB
FL	FLOW LINE	TF	TOP OF FOOTING
FS	FINISHED SURFACE	TG	TOP OF GRATE
FW	FIRE WATER	TP	TOP OF PIPE
G	GAS	TW	TOP OF WALL
GFF	GARAGE FINISHED FLOOR	U	DRY UTILITIES
GM	GAS METER	W	WATER
HP	HIGH POINT	WM	WATER METER
INV	INVERT	WV	WATER VALVE
LP	LOW POINT		

PROJECT INFORMATION

PROJECT ADDRESS: 35 ELLWOOD STATION ROAD
GOLETA, CA. 93117
APN: 079-210-066

CLIENT INFORMATION: AVENUE 2509 LLC
479 SANTA ROSA LANE
MONTECITO, CA 93108

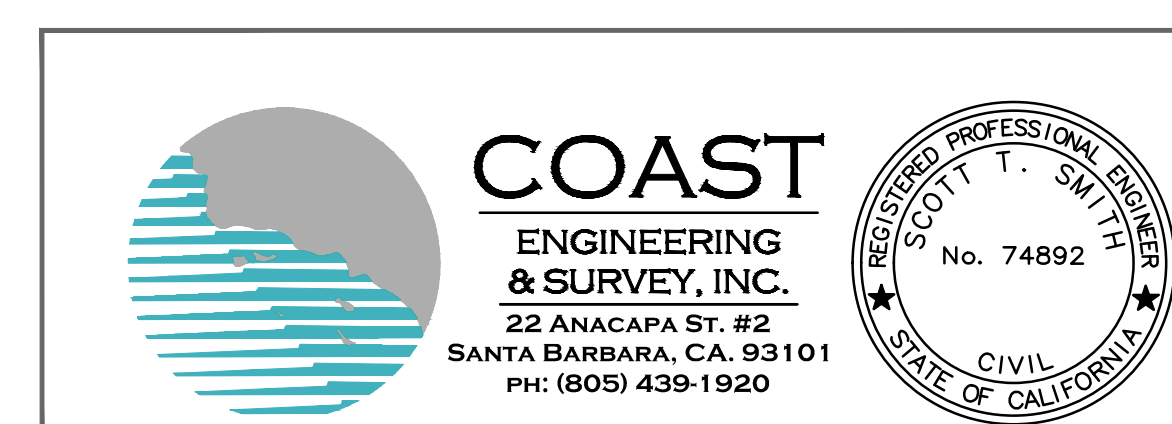
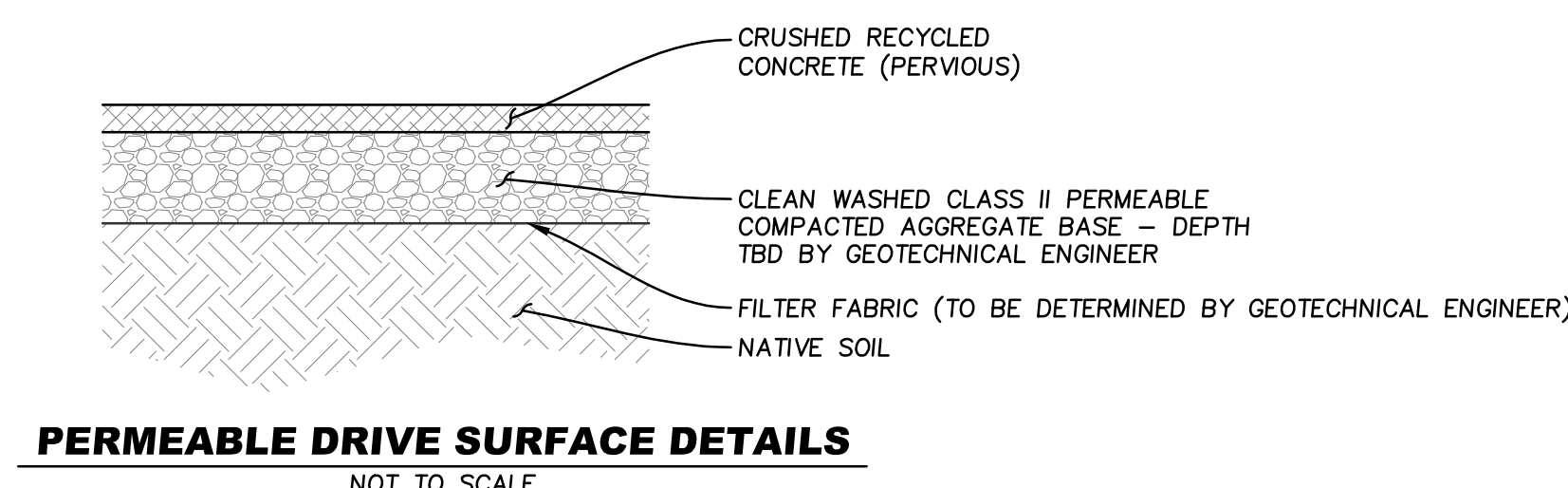
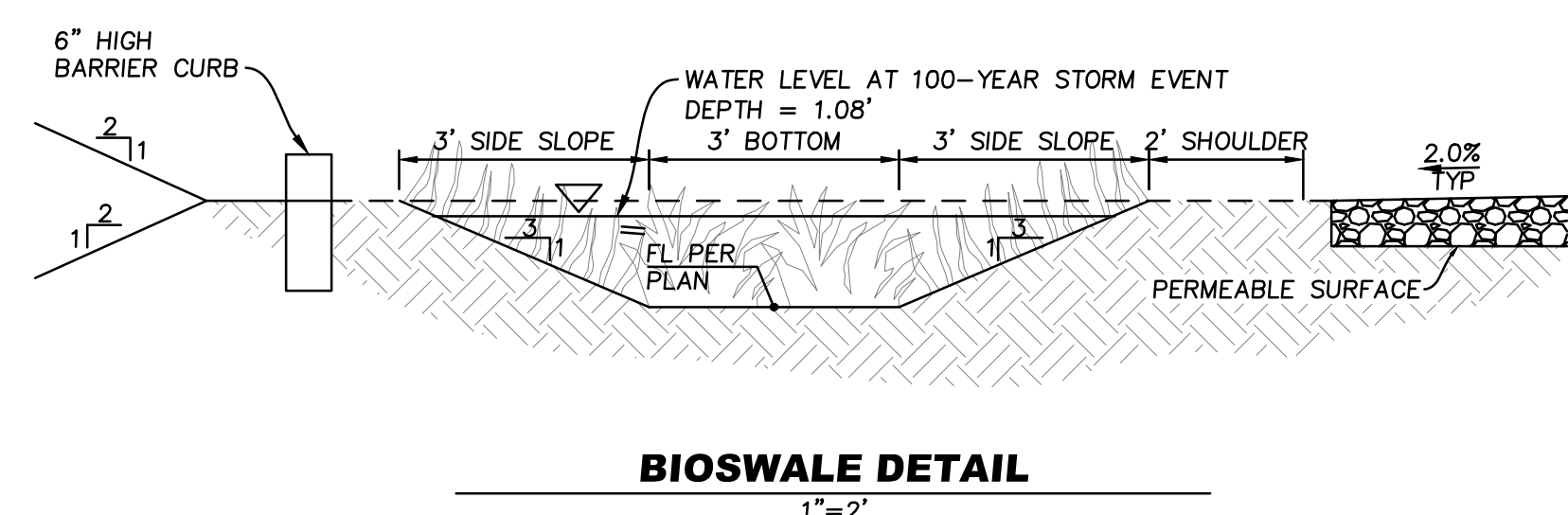
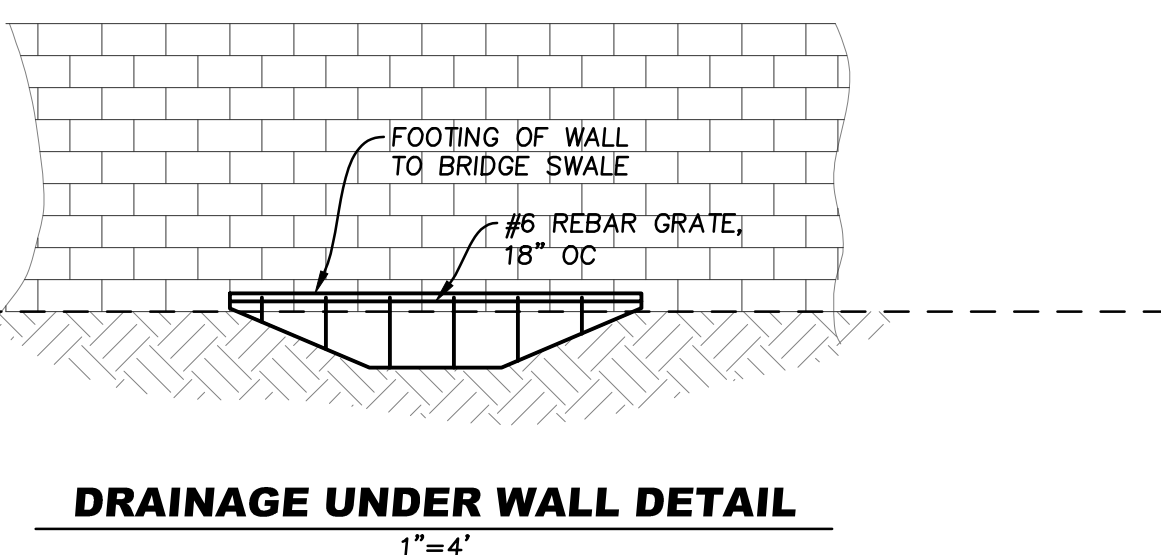
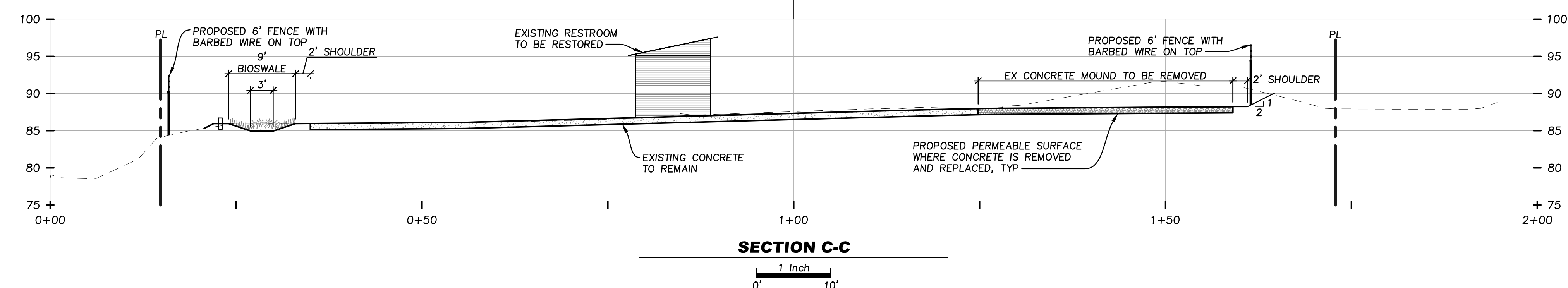
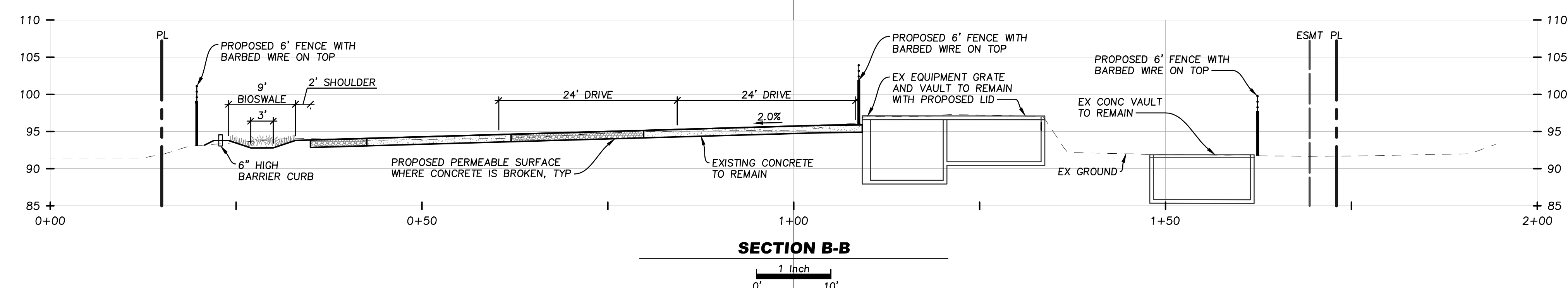
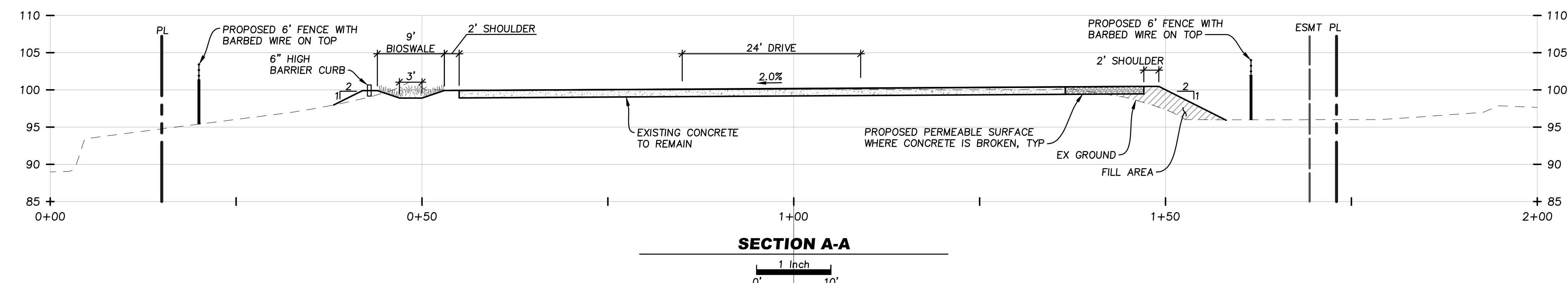
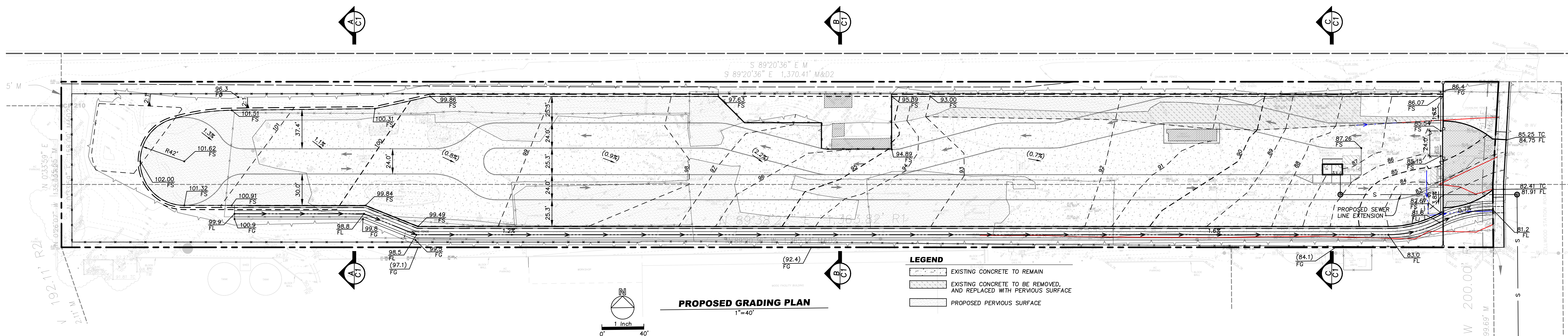
PROPOSED WORK: 1) DEMOLITION OF THE EXISTING CONCRETE PLANT.
2) CONSTRUCTION OF A PERVIOUS STORAGE YARD.

SHEET INDEX

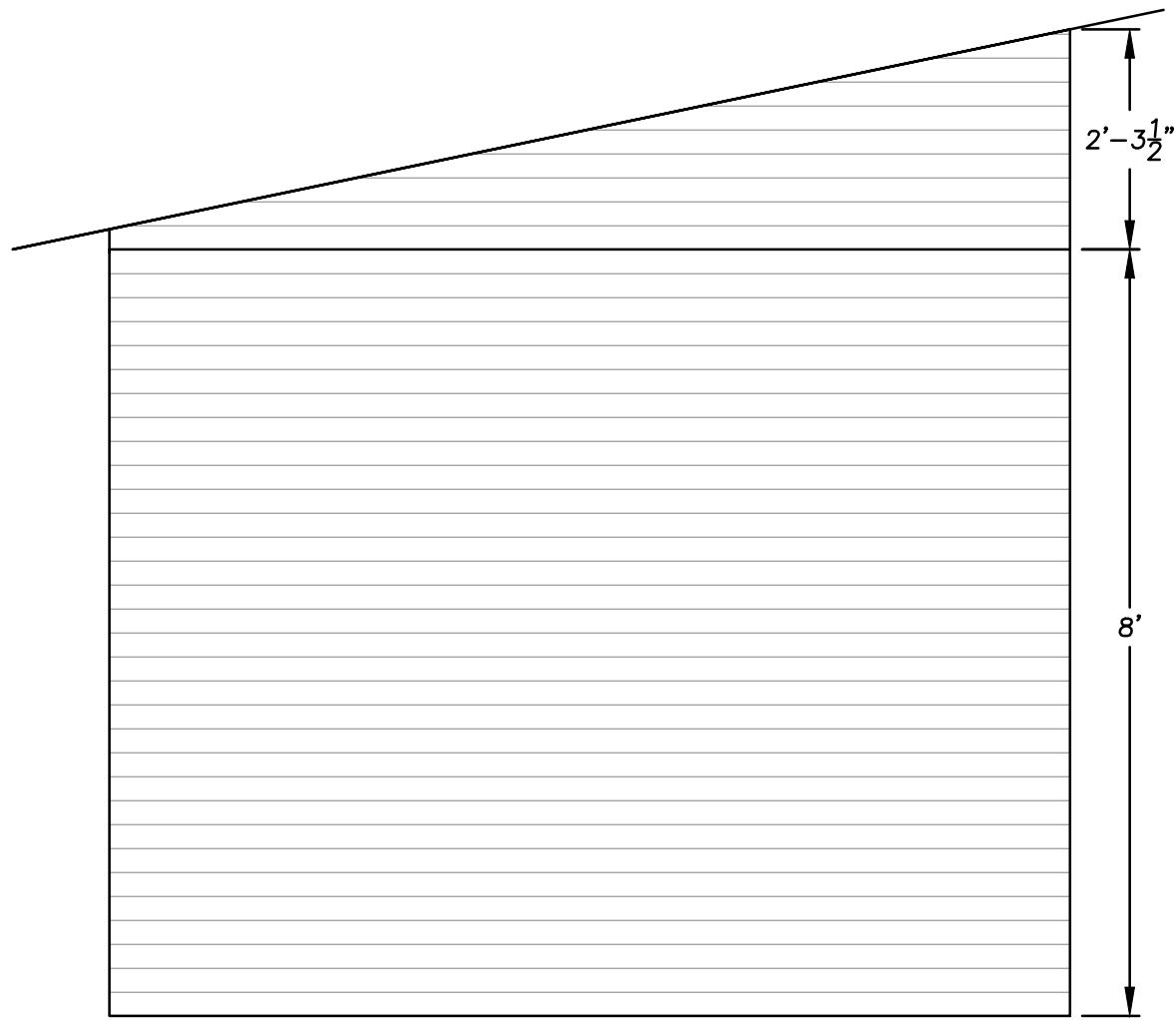
C1 PRELIMINARY SITE PLAN
C2 PRELIMINARY IMPROVEMENT PLAN
C3 EXISTING RESTROOM RESTORATION PLAN



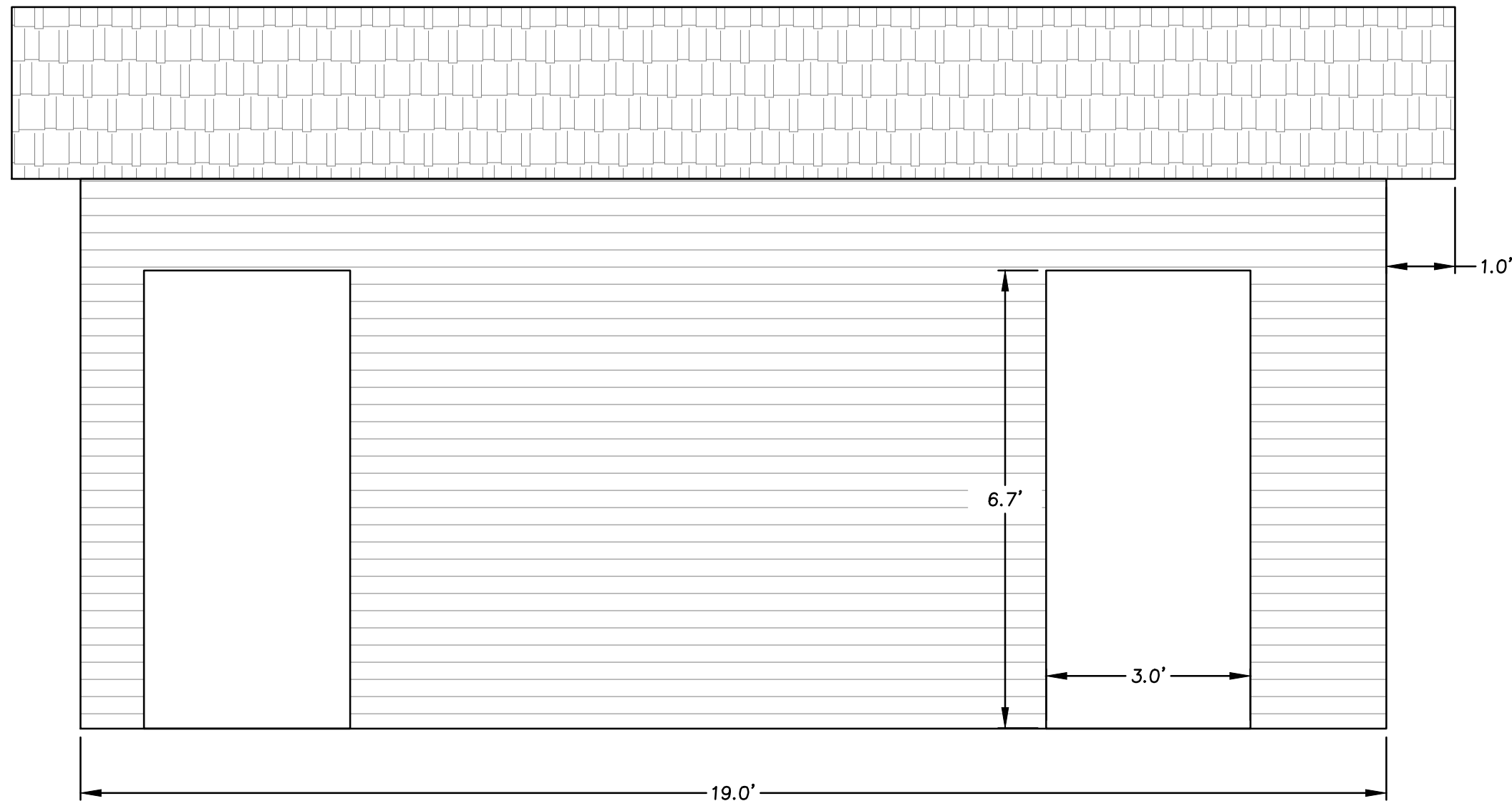
ELLWOOD STATION STORAGE YARD
PRELIMINARY SITE PLAN
20-0003-CUP
APN: 079-210-066
ELLWOOD STATION ROAD
CITY OF GOLETA
STATE OF CALIFORNIA
APRIL 28, 2021



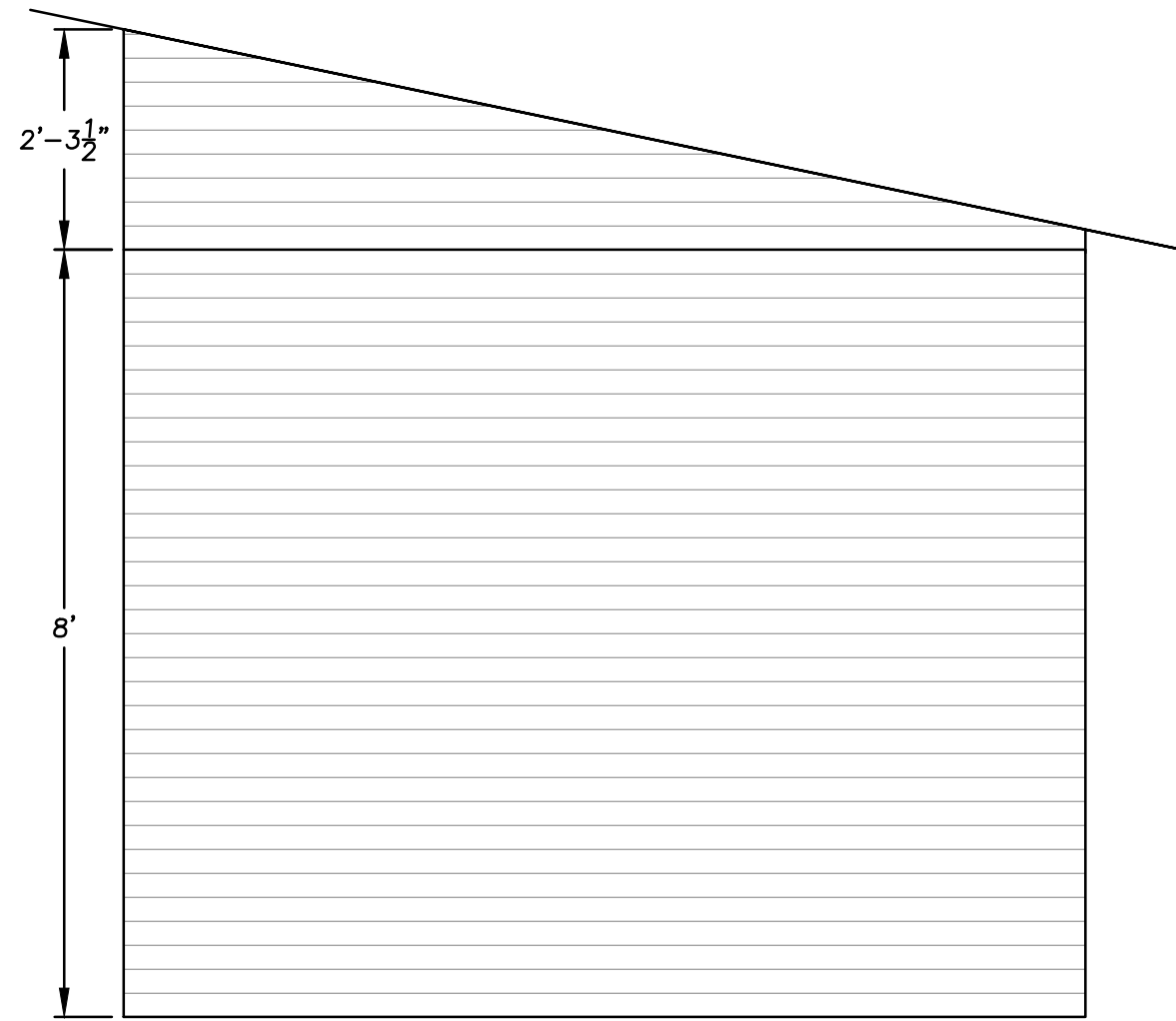
ELLWOOD STATION STORAGE YARD
PRELIMINARY IMPROVEMENT PLAN
APR 20 2010
NOT FOR CONSTRUCTION
ELLWOOD STATION ROAD
CITY OF GOLETA
STATE OF CALIFORNIA
APRIL 28, 2021



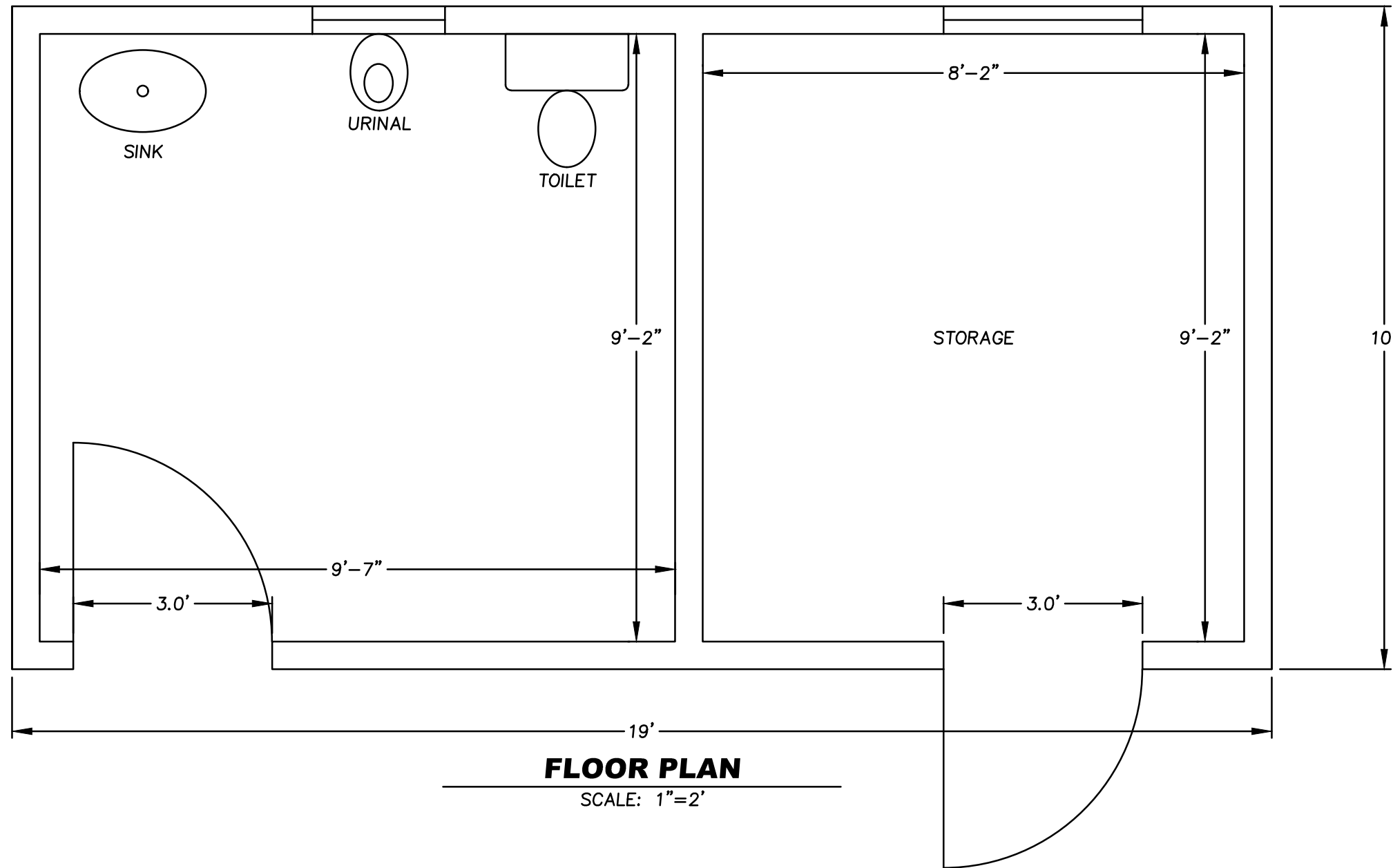
EAST ELEVATION
SCALE: 1"=2'



NORTH ELEVATION
SCALE: 1"=2'



WEST ELEVATION
SCALE: 1"=2'



FLOOR PLAN
SCALE: 1"=2'

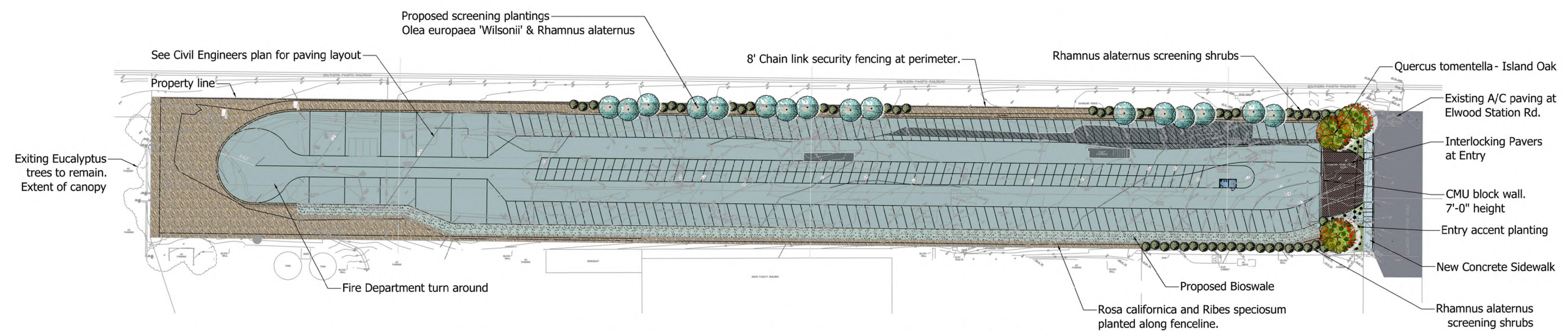


COAST
ENGINEERING
& SURVEY, INC.
22 ANACAPA ST. #2
SANTA BARBARA, CA. 93101
PH: (805) 439-1920



ELLWOOD STATION STORAGE YARD
PRELIMINARY RESTROOM RESTORATION PLAN
APN 079-250-066
45 ELLWOOD STATION ROAD
CITY OF GOLETA
STATE OF CALIFORNIA
APRIL 28, 2021

NOT FOR CONSTRUCTION



Salvia chamaedryoides



Leymus condensatus & Carex spp. swale



Salvia apiana



Epilobium 'Silver Select'



Aloe striata



Muhlenbergia rigens & Ceanothus 'Valley Violet'



Rhamnus 'Mound San Bruno'



Arctostaphylos spp.



Dianella 'Cas Blue'



Ceanothus 'Joyce Coulter'

Sample Plant Palette

Entry Trees:
Quercus tomentella

Island Oak

Screening & Perimeter Plantings:
Olea europaea 'Wilsonii'
Rhamnus alaternus
Ribes speciosum
Rosa californica

Fruitless Olive
Italian Buckthorn
Fuchsia-flowered Gooseberry
California Wildrose

Shrubs and Groundcover:

Acacia 'Desert Carpet'
Agave spp.
Aloe spp.
Arctostaphylos 'Sunset'
Bouteloua 'Blond Ambition'
Carex spp.
Calamagrostis 'Karl Foerster'
Ceanothus
Cistus x pulverulentus 'Sunset'
Dymondia margaretiae
Dianella 'Casa Blue'
Hesperaloe parvifolia
Leymus condensatus 'Canyon Prince'
Muhlenbergia spp.
Olea 'Lil Olie'
Pennisetum spp.
Rhamnus californica varieties
Rhamnus alaternus
Rosemarinus spp.
Salvia spp.
Westringia spp.
Zauschneria spp.

Prostrate Acacia
Agave
Aloe
Manzanita
Grama Grass
Sedge
Feather Reed Grass
Wild Lilac
Magenta Rockrose
Silver Carpet
Blue Flax Lilly
Red Yucca
Wild Rye
Muhly Grass
Dwarf Olive
Feather Grass
Coffeeberry
Italian Buckthorn
Rosemary
Sage
Coast Rosemary
California Fuchsia

Bioswale Plants:

Juncus spp.
Leymus condensatus 'Canyon Prince'
Carex spp.

Rush
Wild Rye
Sedge

Preliminary MWELO Calculations

Water Efficient Landscape Worksheet									
Use drop down menus or type in values in white cells only. Results appear in Yellow or Red highlighted cells below.									
Site Information									
Project Name →		Elwood Station							
Project Location →		Goleta, CA							
Site Type →		Commercial	Allowed ETAF:		0.45				
Annual Eto (inches/yr) →		48.1							
Hydrozone or Planting Description	Plant Factor (PF)		Irrigation Method	Irrigation Efficiency(IE)	ETAF (PF/IE)	Hydrozone Area (sq.ft.)	ETAF x Area	Estimated Total Water Use (gal./yr.)	
Regular Landscape Areas									
1-Entry	0.3	Low	Drip	0.81	0.4	3,372	1,249	37,244	
2-Perimeter	0.2	Low	Drip	0.81	0.2	27,910	6,891	205,514	
3									
4									
5									
6									
7									
8									
SUBTOTAL →						31,282	8,140	242,758	
Special Landscape Areas									
9					1		0	0	
10					1		0	0	
11					1		0	0	
12					1		0	0	
SUBTOTAL →						0	0	0	
						Estimated Total Water Use (ETWU) →		242,758	
						Maximum Allowed Water Allowance (MAWA) →		419,801	
ETAF Calculations									
Regular Landscape Areas									
Total ETAF x Area				8,140					
Total Area				31,282					
Average ETAF				0.26					
All Landscape Areas									
Total ETAF x Area				8,140					
Total Area				31,282					
Site-wide ETAF				0.26					
Notes:									
* Adapted from California Code of Regulations Title 23, Division 2, Chapter 2.7. Model Water Efficient Landscape Ordinance									

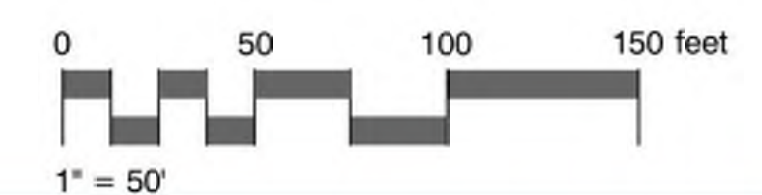
PROJECT DESCRIPTION:

Project Type: Commercial

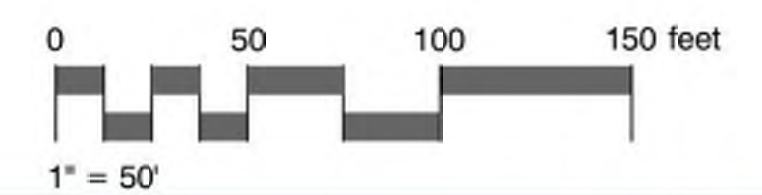
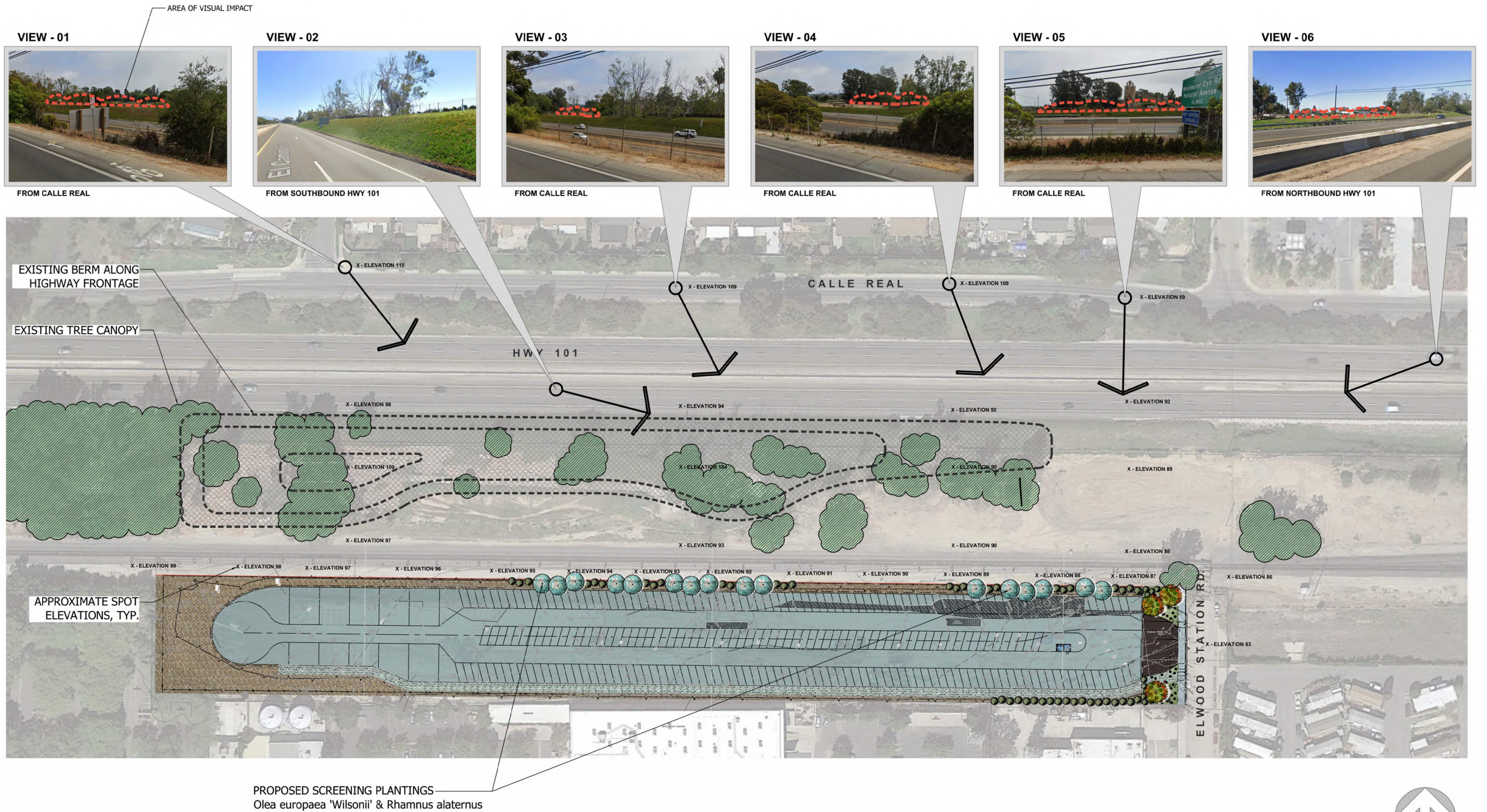
Water Source: Reclaimed Water

Total Landscape Area: 64,819 SF

Total Irrigated Landscape Area: 31,282SF



SCHEMATIC LANDSCAPE PLAN ELWOOD STATION GOLETA, CA



SITE VIABILITY EXHIBIT **ELWOOD STATION** GOLETA, CA

35 Ellwood Station Road, Goleta CA
Landscape Plan Renderings - Front Entry

Gregory A. Mendonsa
Project Manager - WOOD ARCHITECTURE - 805.798.1585
AMENDED JULY 2, 2021

AMENDED MARCH 16, 2022



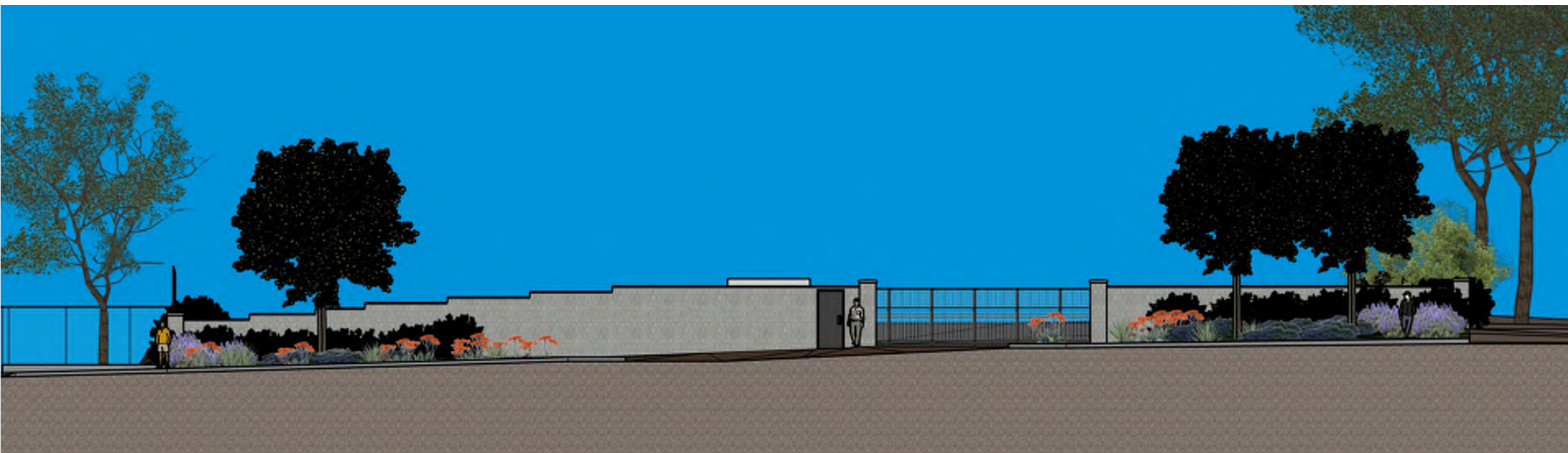
Elevated Perspective



Northeast View



Southeast View



Street Elevation

RECEIVED

FEB. 10, 2020
City of Goleta
Current Planning Division

ADHESIVE ANCHORS AND DOWELS

- ANCHORS AND DOWELS INSTALLED INTO CONCRETE SHALL BE INSTALLED USING HILTI HIT HY200 (LARR #2564, ICC ESR-3187), HILTI RE500-V3 (LARR #26028, ICC ESR-3814), DEWALT PURE10+ (LARR #26035, ICC ESR-3298), OR SIMPSON SET-XP (LARR #25966, IAPMO-281). INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
- MANUFACTURER'S FIELD REPRESENTATIVE SHALL PROVIDE INSTALLATION TRAINING FOR ALL PRODUCTS TO BE USED PRIOR TO COMMENCEMENT OF WORK; ONLY PROPERLY TRAINED INSTALLERS SHALL PERFORM POST INSTALLED ANCHOR INSTALLATION.
- INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL TO VERTICAL ORIENTATION SHALL BE DONE BY A CERTIFIED ADHESIVE INSTALLER (AAI) AS CERTIFIED THROUGH ACI AND IN ACCORDANCE WITH THE CURRENT EDITION OF ACI 308.
- EMBEDMENT DEPTH FOR ANCHORS AND DOWELS IS AS SHOWN ON PLAN. THE TESTING LABORATORY WILL PERFORM TENSION TESTS ON 10 % OF SILL ANCHORS AND DOWELS, 100 % OF ALL OTHER STRUCTURAL ANCHORS, AND 50 % OF NON-STRUCTURAL ANCHORS PER ONE OF THE FOLLOWING METHODS AND IN ACCORDANCE WITH THE VALUES SPECIFIED BELOW:
 - HYDRAULIC RAM METHOD: APPLY PROOF TEST LOAD WITHOUT REMOVING THE NUT. IF IT IS NOT POSSIBLE TO TEST WITH THE NUT INSTALLED, REPLACE THE NUT WITH A THREADED COUPLER TO THE SAME TORQUE MEASURED WITH A TORQUE WRENCH, AND THEN APPLY THE LOAD. MOVEMENT MAY BE DETERMINED WHEN THE WASHER UNDER THE NUT BECOMES LOOSE.
 - TORQUE WRENCH METHOD: TEST ANCHORS TO THE CALCULATED TORQUE LOAD WITHIN ONE-HALF TURN OF THE NUT.
 - TEST LOAD FOR ANCHORS TO BE TWO TIMES THE ALLOWABLE TENSION VALUE OR 1 1/4 TIMES THE MAXIMUM DESIGN STRENGTH GIVEN IN THE ICC APPROVAL, BUT NEED NOT EXCEED $0.8A_{se}F_{ya}$, WHERE A_{se} IS THE CROSS SECTIONAL AREA OF THE ANCHOR AND F_{ya} IS THE YIELD STRESS OF THE ANCHOR.
- ANCHORS INSTALLED INTO GROUT-FILLED MASONRY SHALL BE INSTALLED USING SET ADHESIVE ANCHOR SYSTEMS BY SIMPSON STRONG-TIE (LARR #25185, ICC ESR-1772), HILTI HIT HY-70 MAX (LARR #25447, ICC ESR-3342), OR DEWALT AC108+GOLD (LARR #26049, ICC ESR-3200). PERFORM INSTALLATION IN ACCORDANCE WITH THE ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS. EMBEDMENT DEPTH FOR ANCHORS AND DOWELS SHOWN BELOW (UNLESS OTHERWISE NOTED). THE TESTING LABORATORY WILL PERFORM TENSION TESTS ON 25 % OF ANCHORS AND DOWELS PER ONE OF THE FOLLOWING METHODS AND IN ACCORDANCE WITH THE VALUES CALCULATED BELOW:
 - HYDRAULIC RAM METHOD: APPLY PROOF TEST LOAD WITHOUT REMOVING THE NUT. IF IT IS NOT POSSIBLE TO TEST WITH THE NUT INSTALLED, REPLACE THE NUT WITH A THREADED COUPLER TO THE SAME TORQUE MEASURED WITH A TORQUE WRENCH, AND THEN APPLY THE LOAD. MOVEMENT MAY BE DETERMINED WHEN THE WASHER UNDER THE NUT BECOMES LOOSE.
 - TORQUE WRENCH METHOD: TEST ANCHORS TO THE CALCULATED TORQUE LOAD WITHIN ONE-HALF TURN OF THE NUT.
 - TEST LOAD FOR ANCHORS TO BE TWO TIMES THE ALLOWABLE TENSION VALUE OR 1 1/4 TIMES THE MAXIMUM DESIGN STRENGTH GIVEN IN THE ICC APPROVAL, BUT NEED NOT EXCEED $0.8A_{se}F_{ya}$, WHERE A_{se} IS THE CROSS SECTIONAL AREA OF THE ANCHOR AND F_{ya} IS THE YIELD STRESS OF THE ANCHOR.
- ANCHORS INSTALLED IN UNREINFORCED BRICK MASONRY (URM) SHALL BE INSTALLED USING HILTI HIT ADHESIVE ANCHORS (LARR#24564, ICC ESR-2011) SET ADHESIVE ANCHOR SYSTEMS BY SIMPSON STRONG-TIE (LARR #25120, ICC ESR-1772) OR DEWALT AC108+GOLD (ICC ESR-405). ADHESIVE ANCHORS, USE SCREENS AND INSTALL AS SPECIFIED BY THE MANUFACTURER AND THE ICC REPORT. BARS SHALL BE BENT AND INSTALLED AT A 22.5 DEGREE ANGLE. EMBEDMENT DEPTH FOR ANCHORS AND DOWELS IS AS SHOWN BELOW (UNLESS OTHERWISE NOTED). THE TESTING LABORATORY WILL PERFORM TENSION TESTS ON 25 % OF ANCHORS AND DOWELS TO THE FOLLOWING TEST LOADS:

ROD DIA	EMBEDMENT	TEST LOAD	BASE MATERIAL
3/4"	13"	2,400	URM

- ANCHORS SHALL CONFORM WITH ASTM A193 GRADE B7 THREADED RODS USING ASTM A 563 GRADE DH HEAVY HEX NUTS AND ASTM F436 WASHERS U.N.O.
- DOWELS SHALL CONFORM WITH ASTM A615 OR ASTM A706 GRADE 60 REINFORCING STEEL U.N.O.
- REPLACE ANCHORS AND DOWELS THAT FAIL DURING TESTING AND RETEST, IF MORE THAN 10% OF THE TESTED DOWELS AND ANCHORS FAIL TO ACHIEVE THE SPECIFIED TEST LOAD, TEST 100% OF THE DOWELS AND ANCHORS INSTALLED IN THE LAST 2 DAYS OF ANCHOR INSTALLATION.
- CENTER BAR IN THE HOLE AND WEDGE TIGHT WITH WOODEN WEDGES TO HOLD IT IN PLACE UNTIL THE ADHESIVE SETS.
- IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
- LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH ADHESIVE ANCHORS.

MECHANICAL ANCHORS

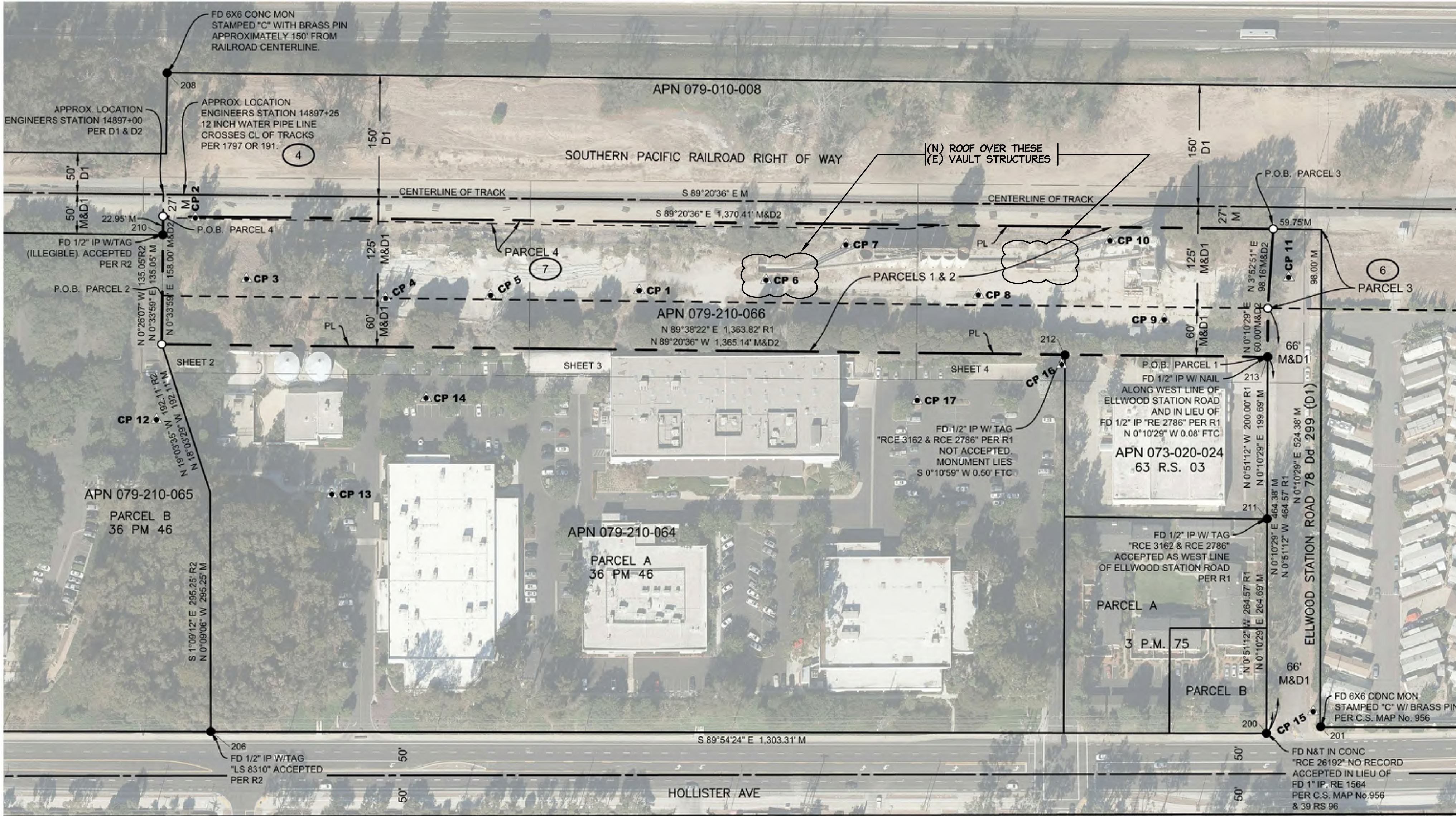
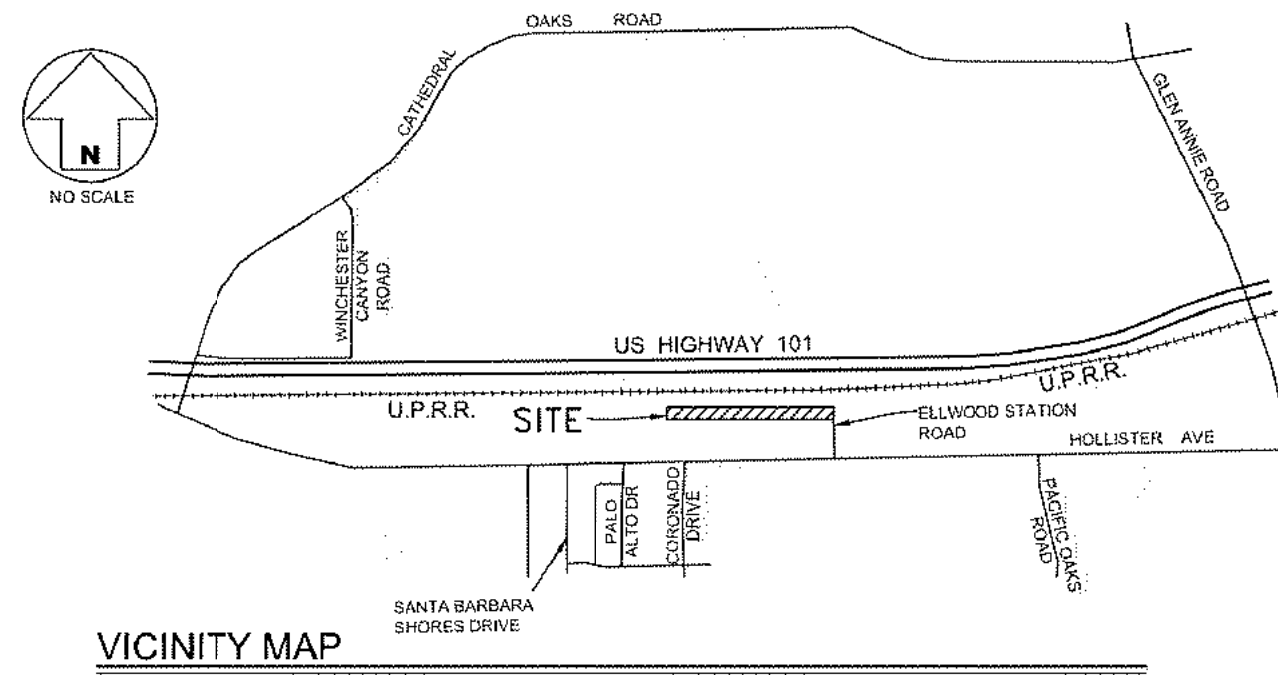
- EXPANSION OR WEDGE ANCHORS INTO CONCRETE: HILTI KB TZ (LARR #25701, ICC ESR-1917), OR DEWALT POWER-STUD +SD2 (LARR #25831, ICC ESR-2502) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
- EXPANSION OR WEDGE ANCHORS INTO MASONRY: HILTI KB 3 (LARR #25577M, ICC ESR-1385), DEWALT POWER-STUD +SD1 (LARR #25787, ICC ESR-2966), OR SIMPSON STRONG TIE WEDGE-ALL (LARR #24682, ICC ESR-1396), TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
- SCREW ANCHORS INTO CONCRETE: HILTI HUS-EZ (LARR #25897, ICC ESR-3027), SIMPSON STRONG TIE TITEN HD (LARR #25741, ICC ESR-2713), OR DEWALT SCREW-BOLT+ (ICC ESR-3884) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
- SCREW ANCHORS INTO MASONRY: HILTI HUS-EZ (LARR #25979, ICC ESR-3056), SIMPSON STRONG TIE TITEN HD (LARR #25560, ICC ESR-1056), OR DEWALT SCREW-BOLT+ (ICC ESR-4042) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
- UNDERCUT ANCHORS INTO CONCRETE: HILTI HDA (ICC ESR-1546), SIMPSON STRONG TIE TORQ-CUT SELF UNDERCUTTING (LARR #25946, ICC ESR-2705), OR DEWALT ATOMIC UNDERCUT (ICC ESR-3067), TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
- HEAVY DUTY SLEEVE ANCHORS INTO CONCRETE: HILTI HSL-3 (ICC ESR-1545) OR DEWALT POWER-BOLT+ (ICC ESR-3260) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
- FASTENERS SHALL BE STAINLESS STEEL FOR EXTERIOR USE OR WHEN EXPOSED TO WEATHER. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED.
- IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE STRUCTURAL ENGINEER WILL DETERMINE A NEW LOCATION.
- LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.
- ANCHORS SHALL BE PROOF-TESTED BY OWNER'S TESTING AND INSPECTION AGENCY.
- TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.
- APPLY TEST LOAD BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION ON THE ANCHOR SUCH AS DIRECT PULL WITH A HYDRAULIC JACK, TORQUE WRENCH, OR CALIBRATED SPRING-LOADING DEVICES, ETC.
- REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY A BASE PLATE OR OTHER FIXTURE. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE THE FIXTURE PRIOR TO TESTING.

- PROVIDE MINIMUM EMBEDMENT OF ANCHORS AS SHOWN IN DRAWINGS.
- WHERE INSTALLATION TORQUE IS PROVIDED BY MANUFACTURER AND OBSERVED BY A DEPUTY INSPECTOR, NO FURTHER TESTING IS REQUIRED. IF NO INSTALLATION TORQUE IS PROVIDED, TEST 50% OF ANCHORS PER ONE OF THE FOLLOWING METHODS AND IN ACCORDANCE WITH THE VALUES CALCULATED BELOW:
 - HYDRAULIC RAM METHOD: APPLY PROOF TEST LOAD WITHOUT REMOVING THE NUT. IF IT IS NOT POSSIBLE TO TEST WITH THE NUT INSTALLED, REPLACE THE NUT WITH A THREADED COUPLER TO THE SAME TORQUE MEASURED WITH A TORQUE WRENCH, AND THEN APPLY THE LOAD. ANCHOR IS ACCEPTABLE IF NO MOVEMENT IS OBSERVED AT THE TEST LOAD. MOVEMENT MAY BE DETERMINED WHEN THE WASHER UNDER THE NUT BECOMES LOOSE.
 - TORQUE WRENCH METHOD: TEST ANCHORS TO THE CALCULATED TORQUE LOAD WITHIN ONE-HALF TURN OF THE NUT.
 - TEST LOAD FOR ANCHORS TO BE TWO TIMES THE ALLOWABLE TENSION VALUE OR 1 1/4 TIMES THE MAXIMUM DESIGN STRENGTH GIVEN IN THE ICC APPROVAL, BUT NEED NOT EXCEED $0.8A_{se}F_{ya}$, WHERE A_{se} IS THE CROSS SECTIONAL AREA OF THE ANCHOR AND F_{ya} IS THE YIELD STRESS OF THE ANCHOR.

- IF ANY ANCHOR FAILS TESTING, REPLACE ANCHOR AND TEST ADDITIONAL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE TESTS PASS, THEN RESUME INITIAL TESTING FREQUENCY.

SCOPE OF WORK

- ADD METAL JOISTS WITH ROOFING OVER EXISTING CONCRETE STORAGE VAULTS
- EXISTING CONCRETE VAULT STRENGTH VERIFIED, PER ATTACHED TEST REPORT.



Pacific Materials Laboratory of Santa Barbara, Inc.

December 15, 2020
Lab No: 133264-2
File No: 20-15346-2

Alastair Winn
479 Santa Rosa Lane
Santa Barbara, CA 93108

SUBJECT: Core Compressive Strength Tests
35 Ellwood Station Road
Goleta, California

Dear Mr. Winn:

In accordance with your request, this Laboratory conducted core compression strength tests on the two core samples delivered to this Laboratory on December 15, 2020. The results of the tests are tabulated below.

Core Number	1	2
Average Length As Drilled (in.)	5.00	5.00
Average Length Before Capping (in.)	4.90	4.90
Average Length After Capping (in.)	4.40	4.70
Average Diameter (in.)	3.28	3.28
Gross-Sectional Area (in. ²)	8.45	8.45
Maximum Load (lbs.)	50,750	49,410
Compressive Strength (psi)	5,990	5,860
Fracture Type	2	2
Notched Maximum Size of Concrete Aggregate (in.)	1	1

*Core diameters less than 1 1/4 in. are due to (1) limited member thickness to obtain L/D ratio of at least 1.0; (2) clear distance between reinforcement is limited; or (3) sample ends failed with no measured diameter.

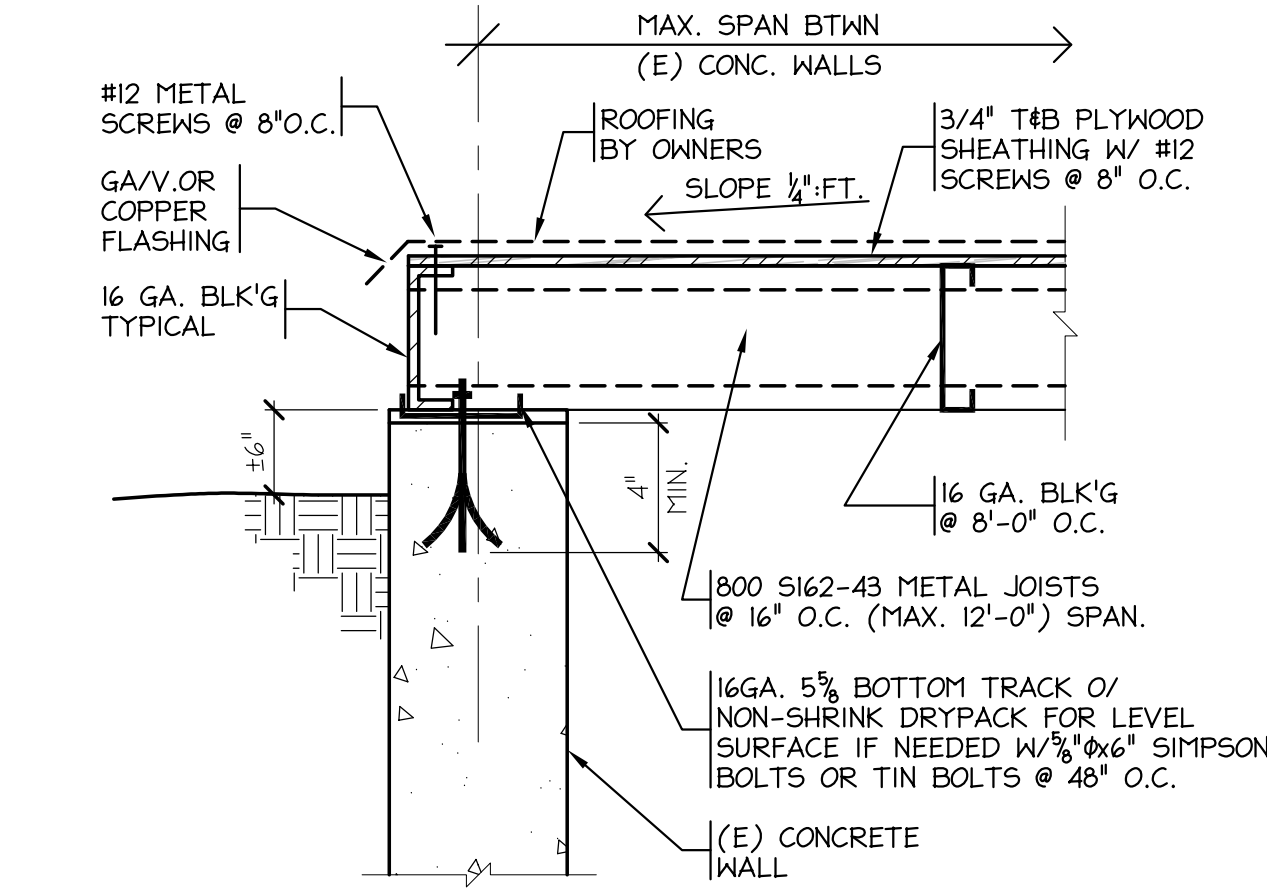
FRACTURE TYPE

If you have any questions concerning this report, please do not hesitate to call. Thank you for the opportunity of providing this service.

Respectfully submitted,
PACIFIC MATERIALS LABORATORY, INC.
Ronald J. Pike, C. E. 42788

RJP:ig
cc: Alastair Winn, Email: alastairwinn@man.com

"We Test The Earth"



TYPICAL ROOF JOISTS OVER (E) CONCRETE

SCALE: 1\"/>

1

ROOF OVER EXISTING VAULTS

35 ELLWOOD STATION RD. GOLETA, CA. 93117

stamps	
issue	
date	1/13/2021
scale	AS NOTED
drawn	JAT
checked	JAT
project no.	21-002
title	SITE PLAN PROJECT INFORMATION
sheet number	S1