

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: 241096
038-231-28, 038-231-39
SITUS ADDRESS: NO SITUS

APN: 038-231-19, 038-231-36,

Proposal to recognize work done under Emergency Coastal Development Permits 221373 and 231191, to repair two sections (187 linear feet and 155 linear feet) of an existing 6-foot to 15-foot tall retaining wall, located at the base of the coastal bluff along Pot Belly Beach Road, including adding whaler tiebacks.

Requires a Minor Coastal Development Permit.

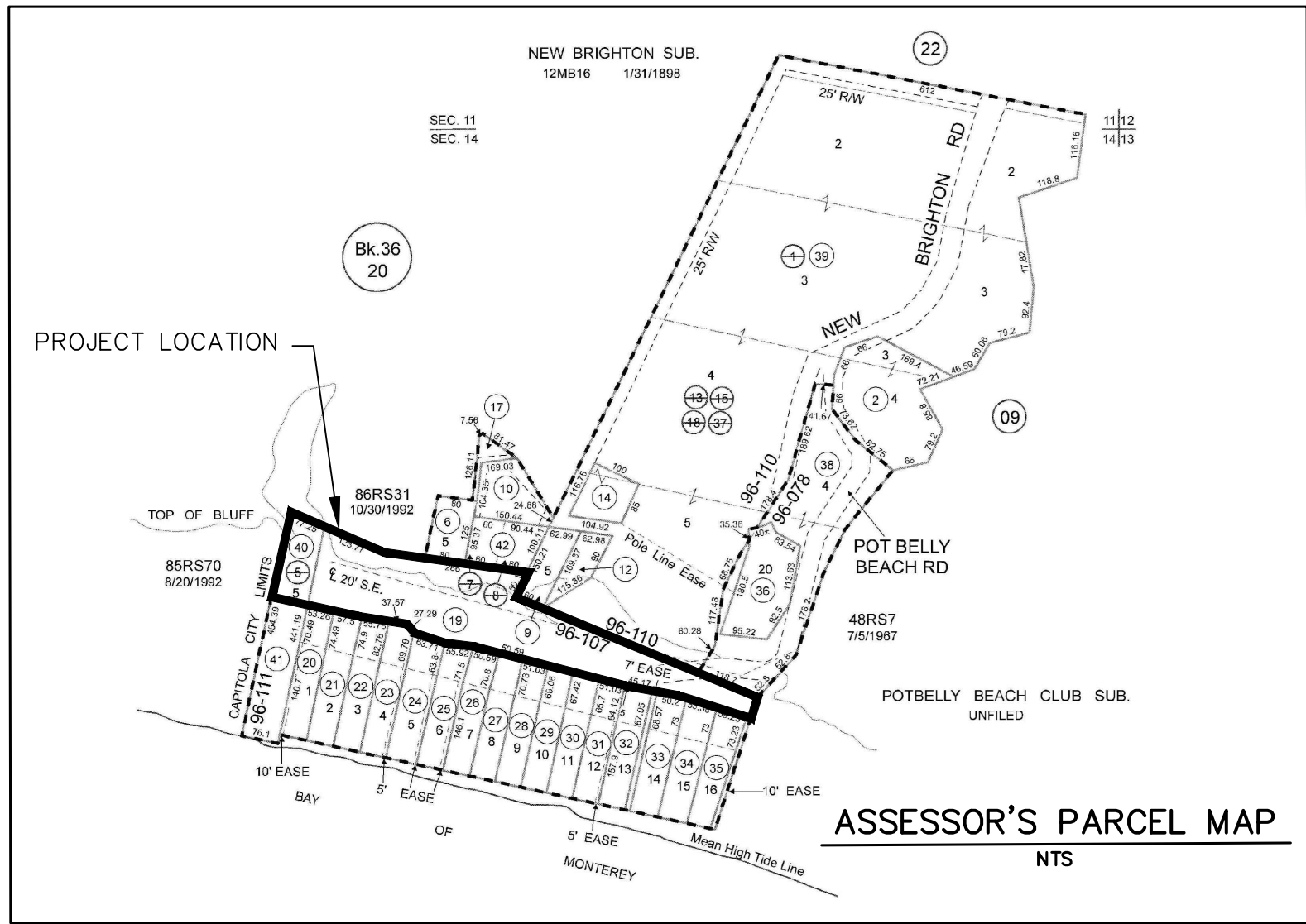
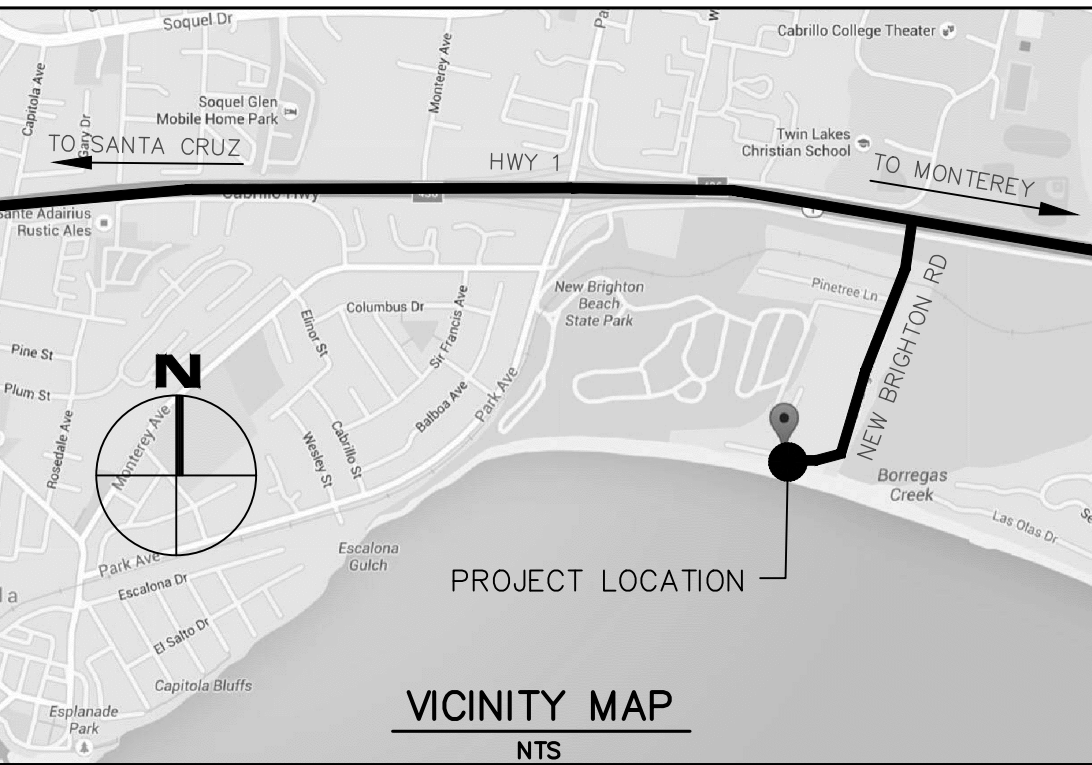
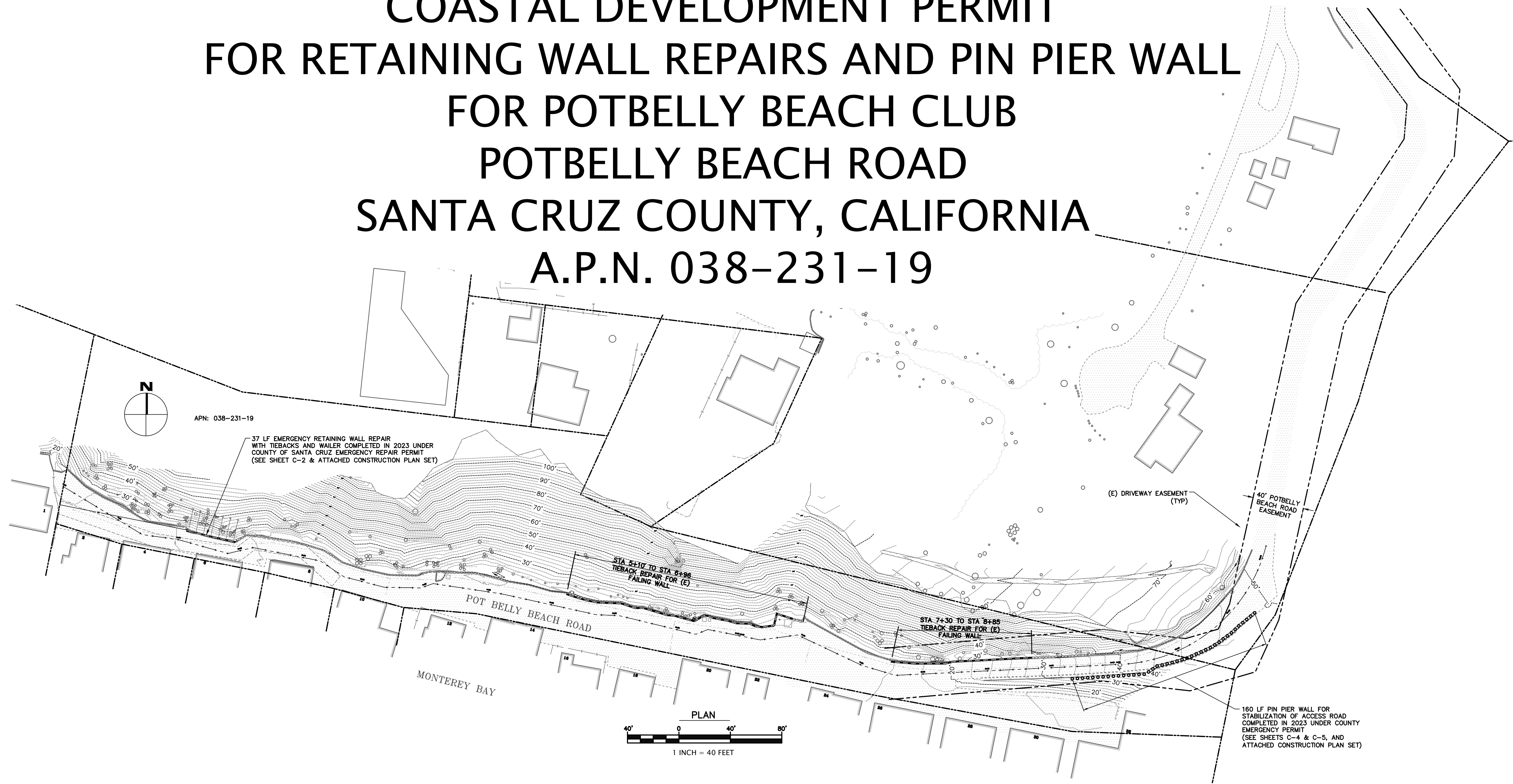
Project is located on Pot Belly Beach Road after it splits from New Brighton Road for the second time (No Situs Address) and is located approximately 230 feet and 140 feet, respectively.

OWNER: Potbelly Beach Club LLC
APPLICANT: RI Engineering Inc.
SUPERVISORIAL DISTRICT: 2
PLANNER: Alexandra Corvello, (831) 454-3209
EMAIL: Alexandra.Corvello@santacruzcountycalifornia.gov

Public comments must be received by 5:00 p.m. August 14, 2025.
A decision will be made on or shortly after August 15, 2025.

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.

COASTAL DEVELOPMENT PERMIT
FOR RETAINING WALL REPAIRS AND PIN PIER WALL
FOR POTBELLY BEACH CLUB
POTBELLY BEACH ROAD
SANTA CRUZ COUNTY, CALIFORNIA
A.P.N. 038-231-19



DESCRIPTION OF WORK

LEGALIZE THE 37 LINEAR FEET OF FAILING RETAINING WALL REPAIRED USING A TIEBACK AND WALER SYSTEM IN 2023 UNDER EMERGENCY PERMITS 221373 & B-226873 WITH COUNTY OF SANTA CRUZ.

LEGALIZE 160 LINEAR FEET OF PIN PIER WALL CONSTRUCTED TO STABILIZE THE ACCESS ROAD UNDER EMERGENCY PERMITS 231191 & B-233408 IN 2023.

PROPOSED REPAIR OF TWO SECTIONS OF FAILING RETAINING WALL WITH TIEBACK ANCHORS AND WALER IS REQUESTED: 187 LF FROM STA 5+10 TO 6+85, AND 155 LF FROM STA 7+30 TO 8+85. EXISTING RETAINING WALL CONSTRUCTED WITH VERTICAL TELEPHONE POLES AND RAILROAD TIES ARE FAILING AND LEANING SEAWARD, TOWARD POTBELLY BEACH ROAD.

TOPOGRAPHIC SURVEY

THE TOPOGRAPHIC SURVEY AND BOUNDARY INFORMATION PROVIDED HEREON WAS COMPLETED BY HANAGAN LAND SURVEYING, INC. MAKES NO GUARANTEE AS TO THE ACCURACY OF BOTH. THE CONTRACTOR SHALL VERIFY THE BOUNDARY LOCATION AND TOPOGRAPHIC INFORMATION PRIOR TO COMMENCING WORK.

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS MAP IS THE CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE 3.

BASIS OF ELEVATION

COUNTY BENCHMARK No. 234, ELEVATION = 120.21 FEET, NGVD 29. CONCRETE MONUMENT WITH BRASS DISC FOUND AT NEW BRIGHTON ROAD AT THE RAILROAD TRACKS.

CONTOUR INTERVAL IS 2 FEET.

PROJECT TEAM

CONSTRUCTION MANAGEMENT
FRANKLIN DICKINSON
FRANKLIN.DICKINSON@HOTMAIL.COM
(831) 840-0499

CIVIL AND STRUCTURAL ENGINEERING
MARK GROFCSIK
RI ENGINEERING, INC.
MARK@RIENGINEERING.COM
(831) 425-3901

GEOTECHNICAL ENGINEERING & GEOLOGY
CHRIS HUNDEMER
C2EARTH, INC.
(831) 425-5436

SURVEYOR
PAUL HANAGAN
HANAGAN LAND SURVEYING, INC.
(831) 469-3428

ABBREVIATIONS

BW	BOTTOM OF WALL
CB	CATCH BASIN
CONST	CONSTRUCT
DIA.	DIAMETER
DTL	DETAIL
(E)	EXISTING
EL	ELEVATION
EF	EACH FACE
EOP	EDGE OF PAVEMENT
EW	EACH WAY
FG	FINISH GRADE
FS	FIRE SERVICE
HP	HIGH POINT
INV	INVERT
LF	LINEAR FEET
LP	LOW POINT
MAX	MAXIMUM
N.T.S.	NOT TO SCALE
RW	RETAINING WALL
RIM	RIM ELEVATION
S	SLOPE
SCCO	COUNTY OF SANTA CRUZ
SSCO	SANITARY SEWER CLEANOUT
SDCO	STORM DRAIN CLEANOUT
TYP	TYPICAL
TW	TOP OF WALL
WM	WATER METER

CIVIL SHEET INDEX

C-1	SITE PLAN
C-2	PLAN - STA 1+00 TO 3+80
C-3	PLAN - STA 4+50 TO 7+40
C-4	PLAN - STA 7+70 TO 11+10
C-5	DETAILS
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REVISED PER COUNTY COMMENTS 4/18/2025



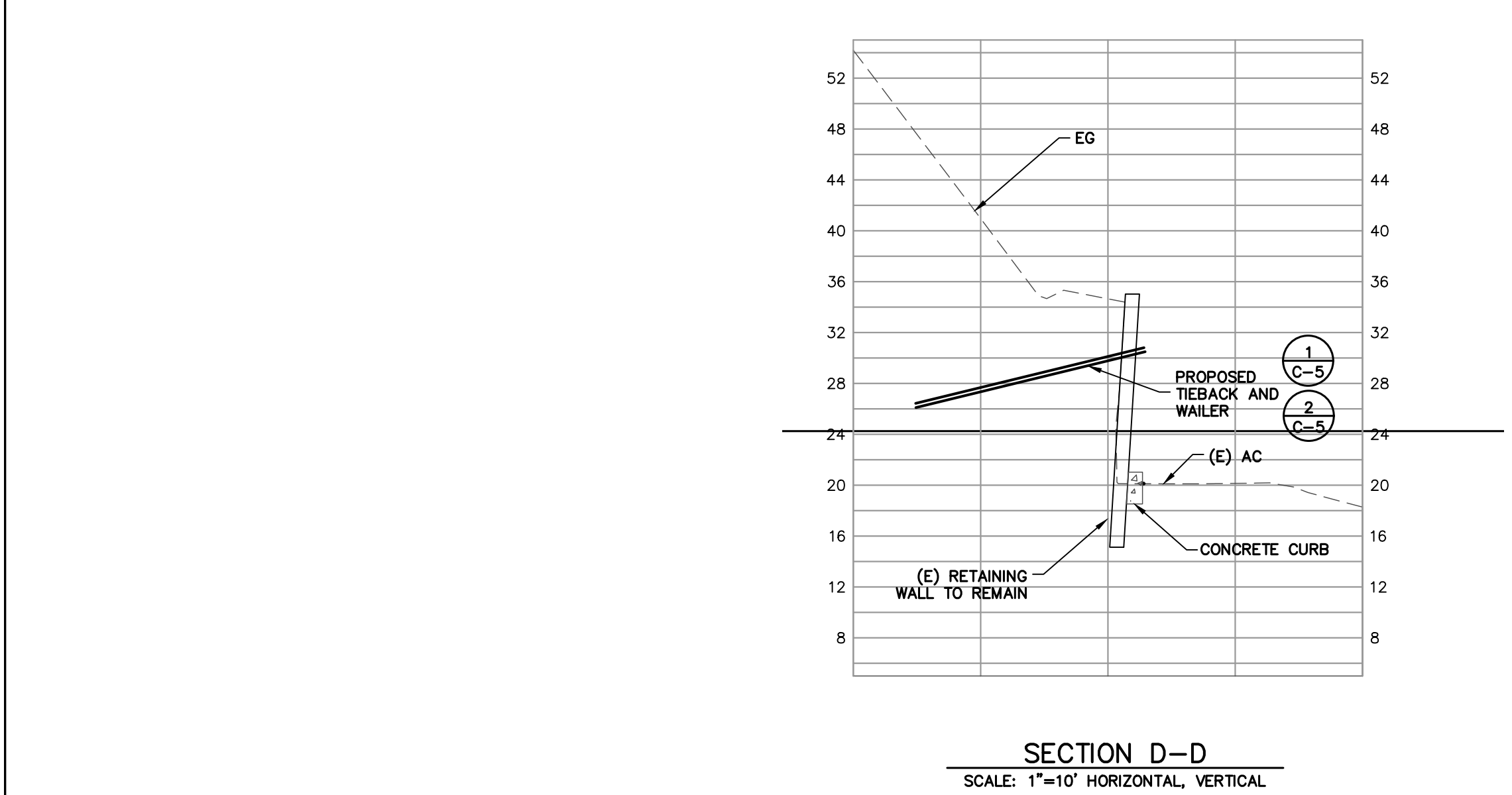
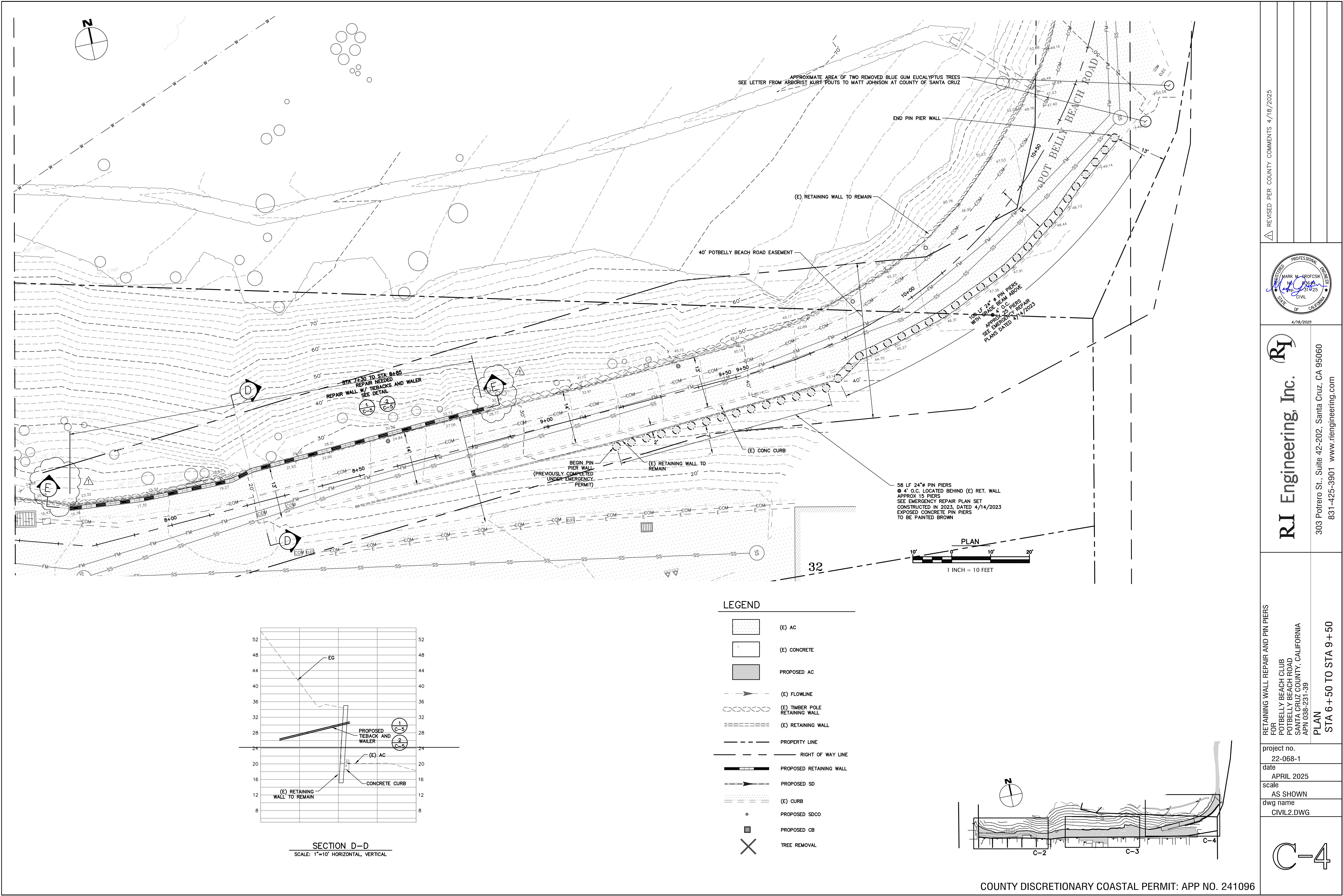
RI Engineering, Inc.

303 Potrero St., Suite 42-202, Santa Cruz, CA 95060
831-425-3901 www.riengineering.com

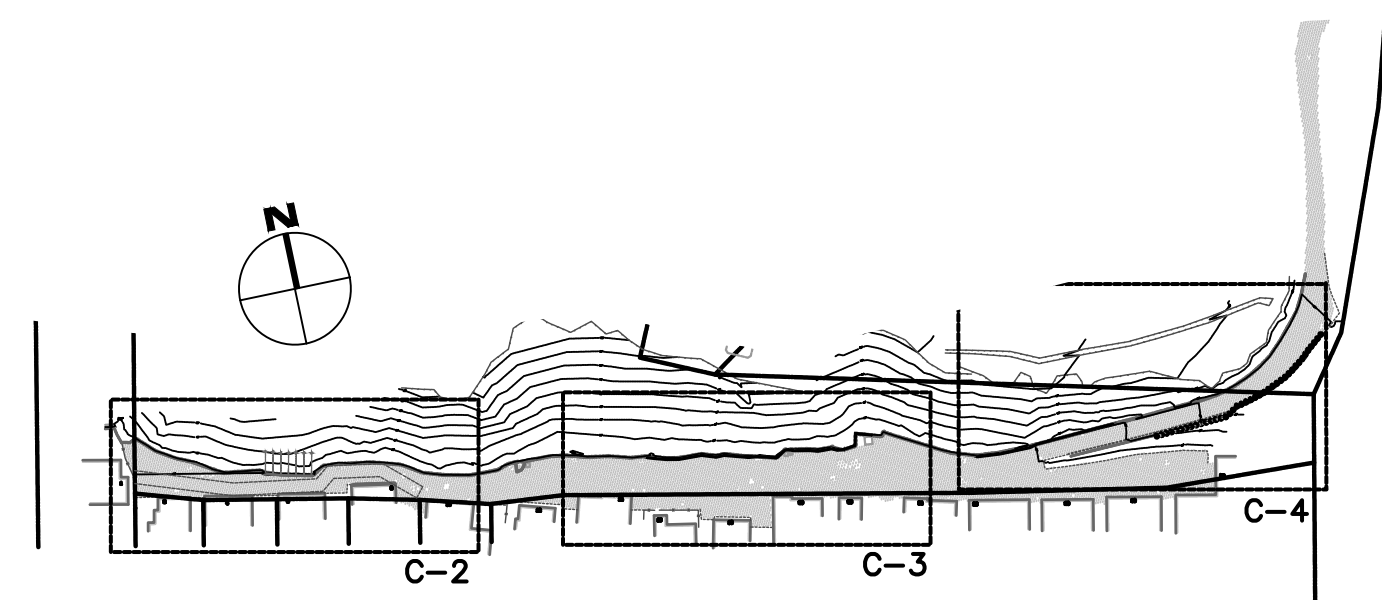
RETAINING WALL REPAIR AND PIN PIERS
FOR
POTBELLY BEACH CLUB
POTBELLY BEACH ROAD
SANTA CRUZ COUNTY, CALIFORNIA
APN 038-231-19
SITE PLAN

project no.
22-068-1
date
APRIL 2025
scale
AS SHOWN
dwg name
CIVIL2.DWG

C-1



LEGEND	
	(E) AC
	(E) CONCRETE
	PROPOSED AC
	(E) FLOWLINE
	(E) TIMBER POLE RETAINING WALL
	(E) RETAINING WALL
	PROPERTY LINE
	RIGHT OF WAY LINE
	PROPOSED RETAINING WALL
	PROPOSED SD
	(E) CURB
	PROPOSED SDCO
	PROPOSED CB
	TREE REMOVAL



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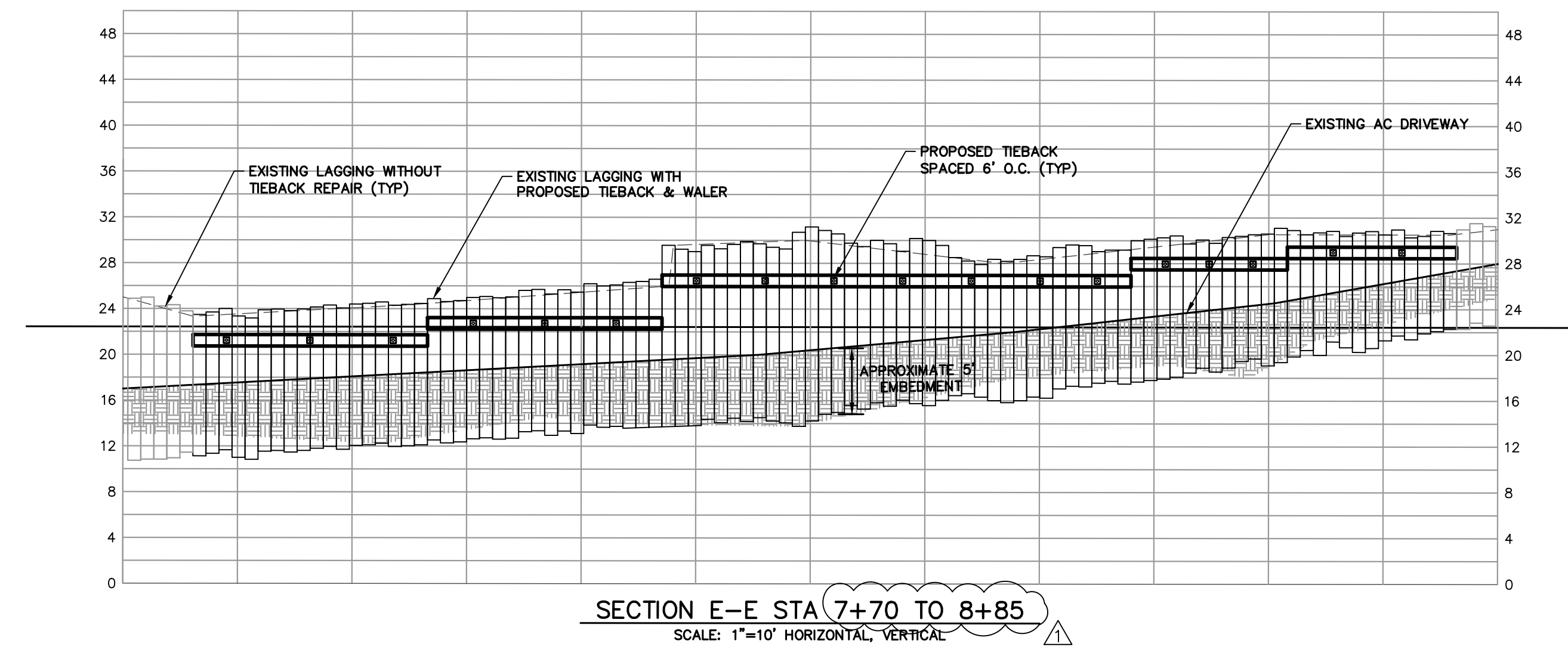
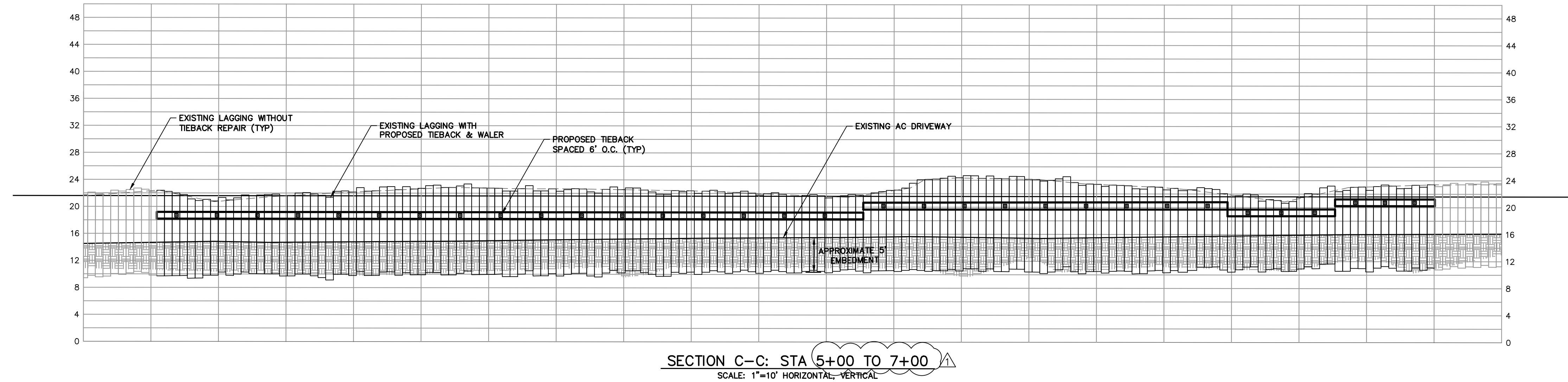
PLAN
STA 6+50 TO STA 9+50

project no.
22-068-1

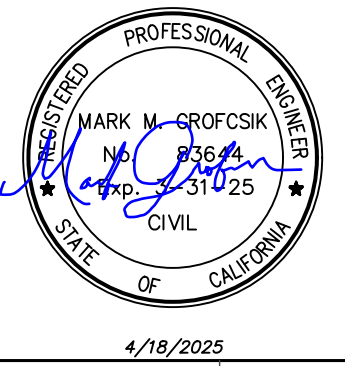
date
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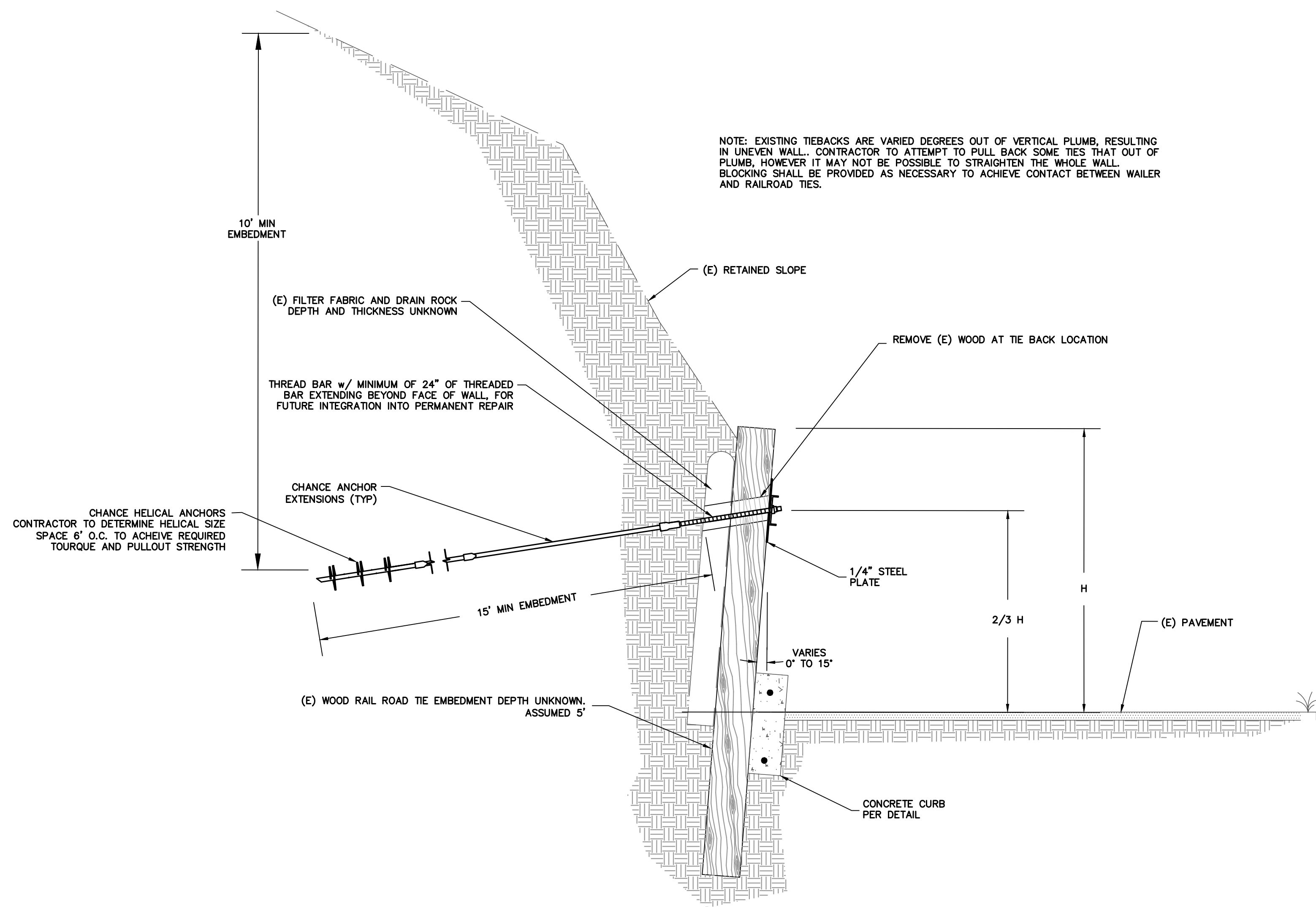


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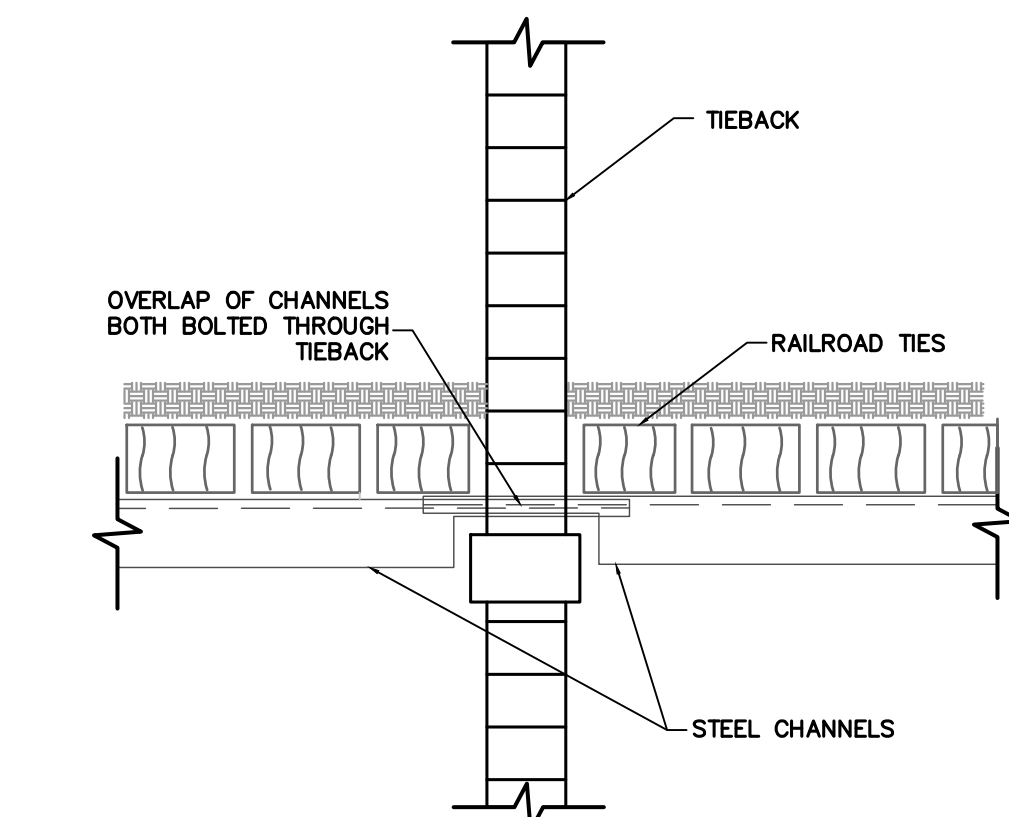
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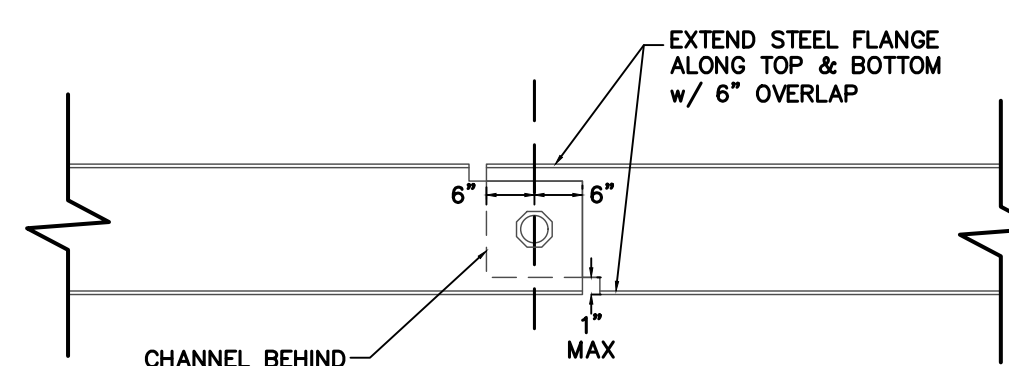
RETAINING WALL W/ DNE
TIEBACK REPAIR

NTS

1
C-5



TOP VIEW

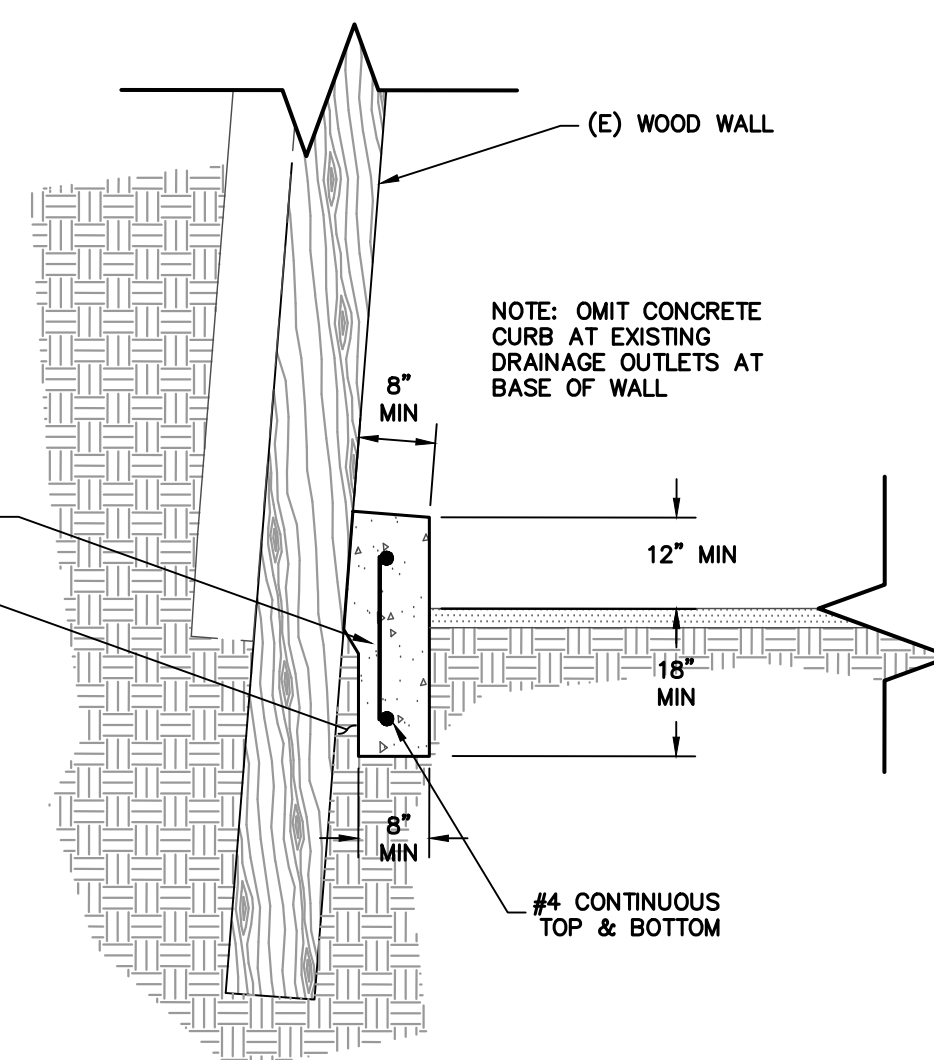


ELEVATION VIEW

STEEL CHANNEL CONNECTION

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4
C-5



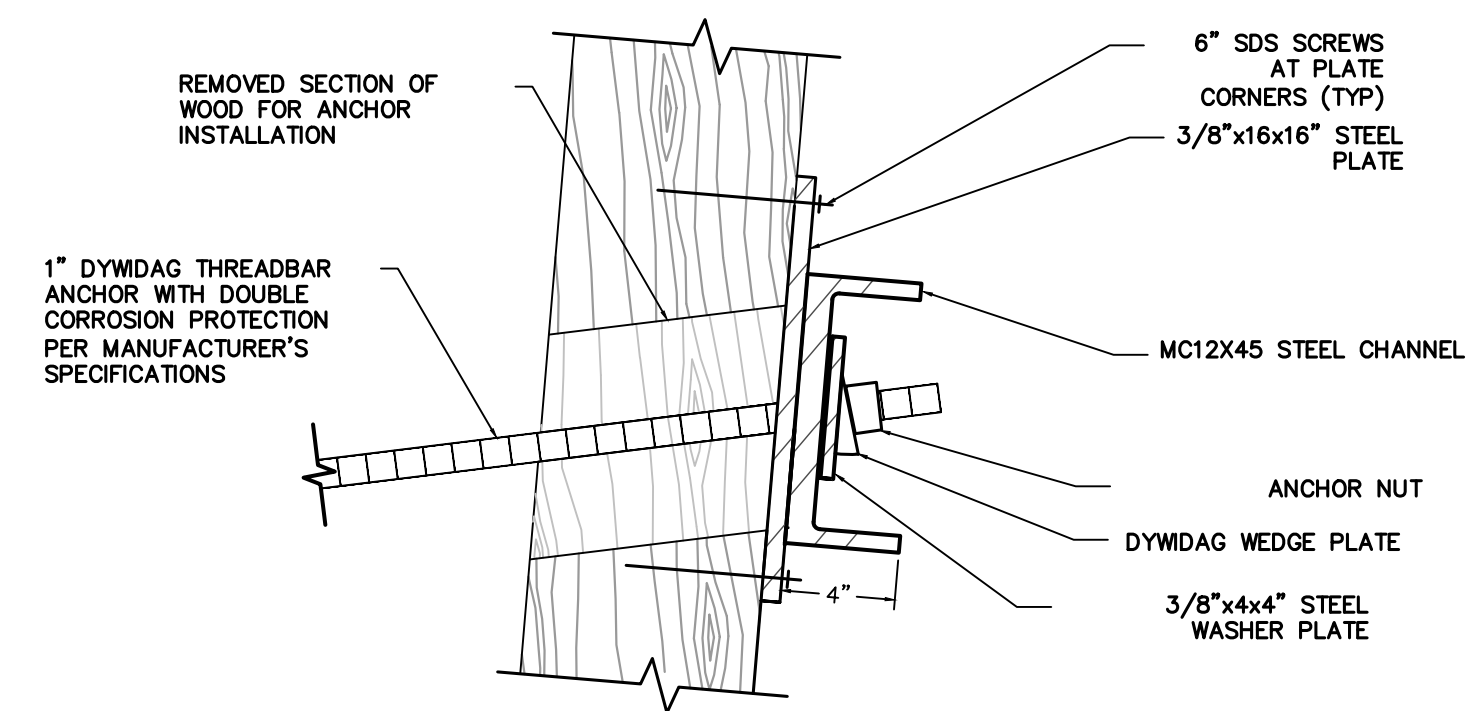
CONCRETE CURB DETAIL

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5
C-5

HELICAL PIER NOTES

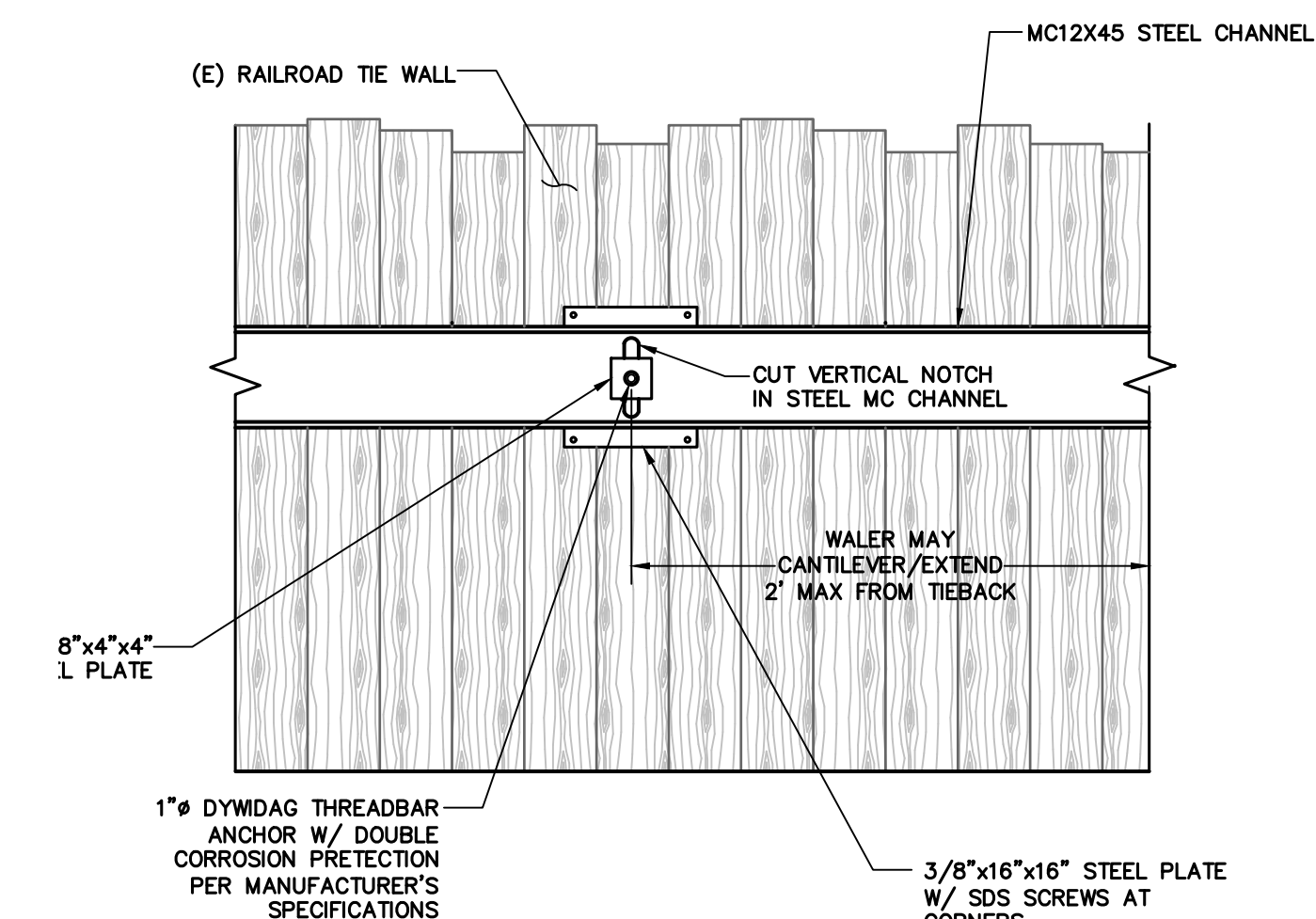
- HELICAL PIERS SHALL BE CHANCE HELICAL 1 1/2" ROUND CORNER SQUARE SHAFT PRODUCT OR APPROVED EQUAL.
- HELICAL PIER SHALL HAVE A MINIMUM DEPTH OF 20'. CONTRACTOR AND GEOTECHNICAL ENGINEER TO TORQUE OR PULL TEST THE ANCHORS TO MEET DESIGN VALUES. REQUIRED DESIGN FORCE WITHOUT FACTOR OF SAFETY IS 46,000 lbs. GEOTECHNICAL ENGINEER TO DETERMINE REQUIRED IN-PLACE PULLOUT TEST STRENGTH DURING CONSTRUCTION.
 - THE CALCULATED LOAD ON THE TIEBACKS IS 30,700 lbs.
 - THE ANCHORS SHALL BE TESTED TO A DESIGN LOAD OF $1.5 \times 30,700 = 46,000$ lbs.
 - FACTOR OF SAFETY = 1.5.
- THE NUMBER OF HELIX BLADES, SPACING AND PIER CONFIGURATION SHOULD BE SELECTED BY THE CONTRACTOR, BASED ON THE AXIAL AND LATERAL DESIGN LOADS, THE PIER SHAFTS MAY BE ROUNDED OR SQUARE; IF TUBULAR SHAFTS ARE USED THEY SHOULD BE GROUTED. MINIMUM PIER # SHALL BE 1 1/2".
- THE AXIAL CAPACITY OF EACH PIER SHOULD BE BASED UPON THE INSTALLATION TORQUE ACHIEVED DURING INSTALLATION. ALL HELIX PIERS SHALL BE INSTALLED AT THE APPROPRIATE TORQUE, BASED ON THE ACTUAL LOADS TRANSMITTED TO THE WALL, UP TO THE CAPACITY SHOWN ON THE PLAN. THE MANUFACTURER'S RECOMMENDATIONS SHOULD BE FOLLOWED REGARDING THE TORQUE AND BEARING CAPACITY RELATIONSHIP FOR THE PARTICULAR PIER SELECTED.
- HELICAL ANCHORS WHICH LOSE THEIR TORQUE CAPACITY WHILE BEING DRILLED TO THE MINIMUM DEPTH REQUIRED WILL BE REJECTED AND A NEW ANCHOR SHALL BE INSTALLED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL SUBMIT HIS PROPOSED HELICAL PIER DESIGN TO THE PROJECT ENGINEER AND GEOTECHNICAL ENGINEER FOR THEIR REVIEW AT LEAST 5 DAYS PRIOR TO INSTALLATION.



NEW TIE BACK AT WALL

NTS

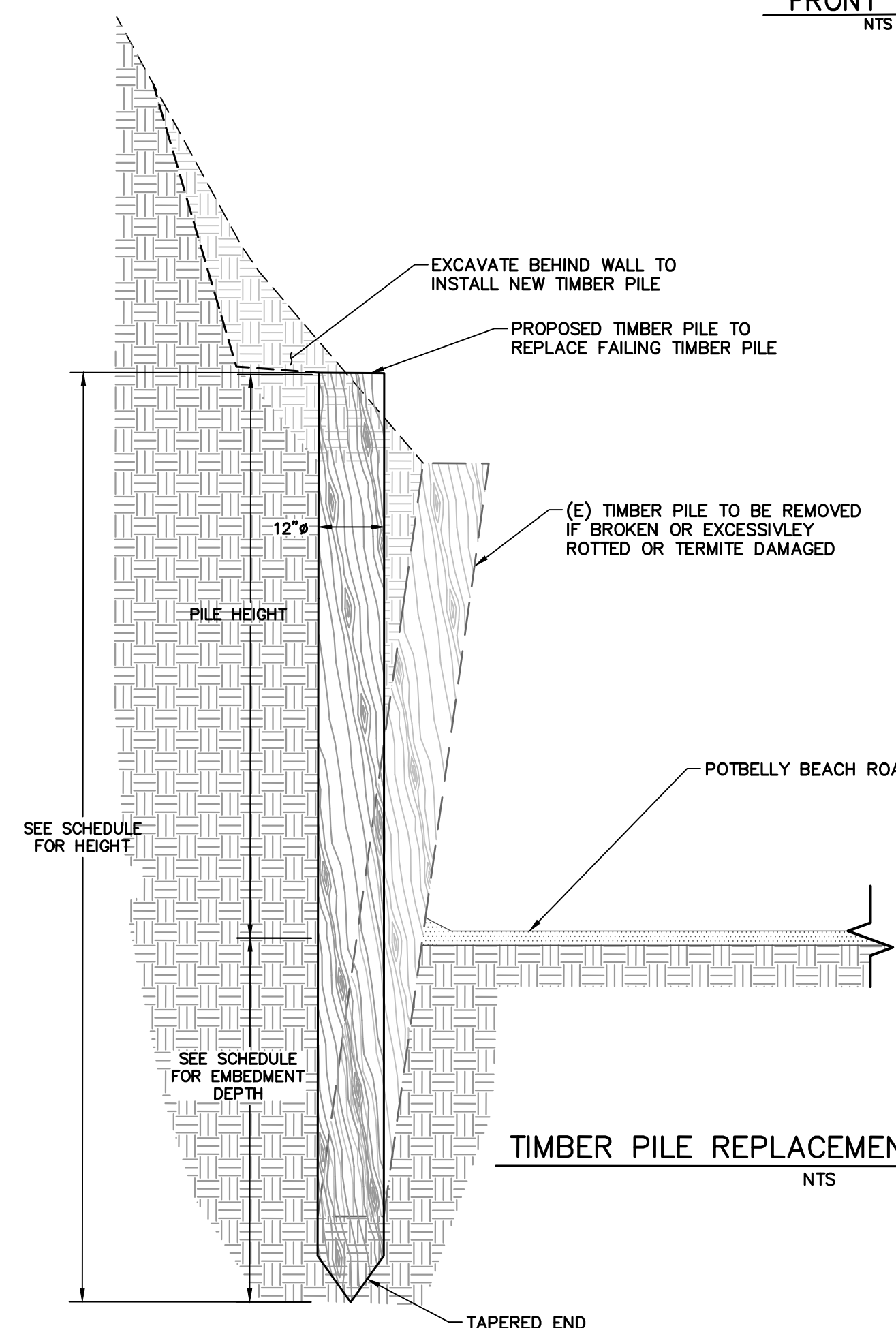
2
C-5



FRONT VIEW

NTS

3
C-5



TIMBER PILE REPLACEMENT DETAIL

NTS

6
C-5

TIMBER PILE SCHEDULE

PILE HEIGHT (FT)	PIER DIAMETER (IN)	PIER EMBEDMENT DEPTH (FT)
6'	12"	9'
7'	12"	10'
8'	12"	12'

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4/18/2025

RJ Engineering, Inc.

303 Potrero St., Suite 42-202, Santa Cruz, CA 95060
831-425-3901 www.rjengineering.com

RETAINING WALL REPAIR AND PIN PIERS
FOR
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C-6

GENERAL NOTES

1. THE CONTRACTOR SHALL MAKE A DETAILED AND THOROUGH STUDY OF THESE PLANS IN THEIR ENTIRETY PRIOR TO ANY WORK ON THE JOBSITE. THE CONTRACTOR IS TO VERIFY ALL EXISTING CONSTRUCTION CONDITIONS AND IS TO COORDINATE THESE DRAWINGS WITH ALL OTHER TRADE DISCIPLINES FOR THE COMPLETED WORK. THE CONTRACTOR IS ALSO TO UNDERSTAND THAT ANY FEATURE OF CONSTRUCTION NOT FULLY SHOWN OR DETAILED SHALL BE OF THE SAME TYPE AS SHOWN FOR SIMILAR CONDITIONS.
2. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY DISCREPANCY OCCURRING ON THE DRAWINGS OR FOUND IN HIS COORDINATION WORK. NO CHANGES IN APPROVED PLANS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE PROJECT ENGINEER AND THE COUNTY OF SANTA CRUZ DEPARTMENT OF PUBLIC WORKS.
3. ANY REQUEST FOR ALTERATIONS OR SUBSTITUTIONS MUST BE PRESENTED DIRECTLY TO THE PROJECT ENGINEER, ACCOMPANIED BY A DETAILED SKETCH, FOR REVIEW. BEFORE ANY APPROVAL WILL BE GIVEN AND BEFORE PROCEEDING WITH THE WORK. ABSOLUTELY NO ALTERATIONS OF THESE DOCUMENTS OF ANY KIND WILL BE APPROVED ON ANY SHOP DRAWINGS.
4. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS (CALTRANS), LATEST EDITION, THE COUNTY OF SANTA CRUZ DESIGN CRITERIA AND ALL APPLICABLE CODES AND ORDINANCES.
5. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE PLANS WERE OBTAINED FROM RECORD DRAWINGS AND MAY NOT REPRESENT TRUE LOCATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTH OF THESE UTILITIES PRIOR TO CONSTRUCTION, AND TO NOTIFY THE PROJECT ENGINEER IN CASE OF CONFLICT.
6. THE CONTRACTOR SHALL SECURE ALL REQUIRED CONSTRUCTION PERMITS FROM THE COUNTY OF SANTA CRUZ PRIOR TO THE START OF WORK.
7. CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD PROJECT ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE PROJECT ENGINEER.
8. GRADING SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATIONS AND THE REQUIREMENTS OF THE COUNTY OF SANTA CRUZ.
9. THE CONTRACTOR SHALL NOTIFY THE COUNTY GRADING INSPECTOR, GEOTECHNICAL ENGINEER, THE CIVIL ENGINEER, & THE COUNTY CONSTRUCTION ENGINEER AT LEAST 48 HOURS PRIOR TO TO THE START OF CONSTRUCTION.
10. WORK SHALL BE LIMITED TO 8:00 A.M. TO 5:00 PM WEEKDAYS. NON-NOISE PRODUCING ACTIVITIES, SUCH AS INTERIOR PAINTING, SHALL NOT BE SUBJECT TO THIS RESTRICTION.
11. ALL FIGURE (FIG.) REFERENCES, UNLESS OTHERWISE SPECIFIED, REFER TO STANDARD DRAWINGS IN THE CURRENT EDITION OF THE "COUNTY OF SANTA CRUZ DESIGN CRITERIA."
12. NO LAND CLEARING, GRADING OR EXCAVATING SHALL TAKE PLACE BETWEEN OCTOBER 15 AND APRIL 15 UNLESS THE PLANNING DIRECTOR APPROVES A SEPARATE WINTER EROSION CONTROL PLAN.
13. BETWEEN OCTOBER 15 AND APRIL 15, EXPOSED SOIL SHALL BE PROTECTED FROM EROSION AT ALL TIMES. DURING CONSTRUCTION SUCH PROTECTION MAY CONSIST OF MULCHING AND/OR PLANTING OF NATIVE VEGETATION OF ADEQUATE DENSITY. BEFORE COMPLETION OF THE PROJECT, ANY EXPOSED SOIL ON DISTURBED SLOPES SHALL BE PERMANENTLY PROTECTED FROM EROSION.
14. THE CONTRACTOR SHALL APPLY WATER TO ALL EXPOSED EARTH SURFACES AT INTERVALS SUFFICIENT TO PREVENT AIRBORNE DUST FROM LEAVING THE PROJECT SITE. ALL EXPOSED EARTH SHALL BE WATERED DOWN AT THE END OF THE WORK DAY.
15. WHILE IN TRANSIT TO AND FROM THE PROJECT SITE, ALL TRUCKS TRANSPORTING FILL SHALL BE EQUIPPED WITH TARPS.
16. PURSUANT TO SECTIONS 16.40.040 AND 16.42.100 OF THE COUNTY CODE, IF AT ANY TIME DURING SITE PREPARATION, EXCAVATION, OR OTHER GROUND DISTURBANCE ASSOCIATED WITH THIS DEVELOPMENT, ANY ARTIFACT OR OTHER EVIDENCE OF AN HISTORIC ARCHEOLOGICAL RESOURCE OR A NATIVE AMERICAN CULTURAL SITE IS DISCOVERED, THE RESPONSIBLE PERSONS SHALL IMMEDIATELY CEASE AND DESIST FROM ALL FURTHER SITE EXCAVATION AND NOTIFY THE SHERIFF-CORONER IF THE DISCOVERY CONTAINS HUMAN REMAINS, OR THE PLANNING DIRECTOR IF THE DISCOVERY CONTAINS NO HUMAN REMAINS. THE PROCEDURES ESTABLISHED IN SECTIONS 16.40.010 AND 16.42.100, SHALL BE OBSERVED.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF CONSTRUCTION QUANTITIES PRIOR TO BIDDING ON ANY ITEM. QUANTITY REFERENCES SHOWN ON THESE PLANS OR ENGINEER'S ESTIMATES ARE FOR ESTIMATING PURPOSES ONLY AND SHALL NOT BE CONSIDERED AS A BASIS FOR CONTRACTOR PAYMENT. CONSULTANT SHALL NOT BE RESPONSIBLE FOR ANY FLUCTUATIONS IN SUCH QUANTITIES AND ESTIMATES.
18. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO, OR USES OF, THESE PLANS. ALL CHANGES MUST BE IN WRITING AND MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
19. UNDERGROUND UTILITY LOCATIONS SHOWN ARE COMPILED FROM INFORMATION SUPPLIED BY UTILITY AGENCIES, AND ARE APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY LOCATIONS OF AFFECTED UTILITY LINES PRIOR TO ANY TRENCHING OR EXCAVATING AND POT HOLE THOSE AREAS WHERE POTENTIAL CONFLICTS EXIST OR WHERE DATA IS OTHERWISE INCOMPLETE. FOR LOCATION, CALL USA 1-800-624-1444.
20. ANY EXISTING UTILITIES THAT ARE REQUIRED TO BE RELOCATED AS A PART OF THIS CONSTRUCTION SHALL BE RELOCATED AT THE OWNER'S EXPENSE.

EARTHWORK AND GRADING

1. WORK SHALL CONSIST OF ALL CLEARING, GRUBBING, STRIPPING, PREPARATION OF LAND TO BE FILLED, EXCAVATION, SPREADING, COMPACTION AND CONTROL OF FILL, AND ALL SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING TO CONFORM TO THE LINES, GRADES, AND SLOPES, AS SHOWN ON THE APPROVED PLANS.
2. ALL GRADING OPERATIONS SHALL CONFORM TO SECTION 19 OF THE CALTRANS STANDARD SPECIFICATIONS, AND SHALL ALSO BE DONE IN CONFORMANCE WITH THE REQUIREMENTS OF THE COUNTY OF SANTA CRUZ. THE MOST STRINGENT GUIDELINE SHALL PREVAIL.
3. REFERENCE IS MADE TO THE GEOTECHNICAL INVESTIGATIONS BY C2EARTH, INC., ENTITLED "PHASE GEOTECHNICAL SERVICES PHASE II EMERGENCY RETAINING WALL DISTRESS MITIGATION AND SITE DRAINAGE IMPROVEMENT MEASURES," DATED JULY 10, 2024. THE CONTRACTOR SHALL MAKE A THOROUGH REVIEW OF THIS REPORT AND SHALL FOLLOW ALL RECOMMENDATIONS THEREIN. THE CONTRACTOR SHALL CONTACT C2EARTH, INC., FOR ANY CLARIFICATIONS NECESSARY PRIOR TO PROCEEDING WITH THE WORK.
4. THE CONTRACTOR SHALL GRADE TO THE LINE AND ELEVATIONS SHOWN ON THE PLAN AND SHALL SECURE THE SERVICES OF A LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER TO PROVIDE STAKES FOR LINE AND GRADE.
5. THE GEOTECHNICAL ENGINEER SHOULD BE NOTIFIED AT LEAST FOUR (4) DAYS PRIOR TO ANY SITE CLEARING AND GRADING OPERATIONS.
6. MATERIAL USED FOR ENGINEERED FILL SHALL MEET THE REQUIREMENTS OF THE AFOREMENTIONED REPORTS BY C2EARTH, INC.
7. ALL FILL MATERIAL SHALL BE APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER PRIOR TO JOBSITE DELIVERY AND PLACEMENT. NO EARTHWORK OPERATIONS SHALL BE PERFORMED WITHOUT THE DIRECT OBSERVATION AND APPROVAL OF THE GEOTECHNICAL ENGINEER.
8. ANY VOIDS CREATED BY REMOVAL OF TREE ROOT BALLS, MUST BE BACKFILLED WITH PROPERLY COMPACTED NATIVE OR IMPORTED SOILS THAT ARE FREE OF ORGANIC AND OTHER DELETERIOUS MATERIALS OR WITH APPROVED IMPORTED FILL.
9. FOLLOWING SUBEXCAVATION IN PAVEMENT AREAS, THE SUBGRADE SHOULD THEN BE BROUGHT TO DESIGN GRADES WITH NATIVE OR IMPORTED NON-EXPANSIVE FILL PLACED IN MAXIMUM 8" LIFTS (BEFORE COMPACTION). THIS SHOULD RESULT IN A MINIMUM OF 12" OF ENGINEERED FILL BENEATH NEW PAVEMENT SECTIONS. RECOMPACTED SECTIONS SHOULD EXTEND AT LEAST 3 FEET HORIZONTALLY BEYOND PAVEMENT, WHERE POSSIBLE.

SUBMITTALS

- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW IN THE FOLLOWING AREAS OF WORK:
1. CONCRETE MIX DESIGNS, STAMPED BY AN ENGINEER LICENSED IN THE STATE OF CALIFORNIA;
2. HELICAL ANCHOR SPECIFICATIONS;
3. REINFORCEMENT STEEL PLACEMENT;
4. CONCRETE CURING METHOD;
5. FOR ALL SUBSTITUTIONS;
- SHOP DRAWINGS FOR FABRICATION OF COMPONENTS SHALL NOT BE BASED ON COPIES OF THE ENGINEER'S DRAWINGS
- ALL SUBMITTALS SHALL BE REVIEWED AND CHECKED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ENGINEER FOR REVIEW. CONTRACTOR SHALL STAMP AND SIGN EACH SUBMITTAL INDICATING THEY HAVE REVIEWED, CHECKED AND APPROVED THE SUBMITTAL FOR COMPLIANCE WITH ALL THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.

TIE-BACK TESTING

ALL TIE-BACK ANCHOR CONSTRUCTION AND TESTING MUST BE OBSERVED BY A REPRESENTATIVE FROM C2 EARTH ENGINEERING INC. ANY TIE-BACK ANCHORS CONSTRUCTED WITHOUT THE FULL KNOWLEDGE AND CONTINUOUS OBSERVATION OF GEOTECHNICAL ENGINEER, WILL RENDER THE RECOMMENDATIONS OF THIS REPORT INVALID. THE CONTRACTOR AND DRILLING SUBCONTRACTOR SHOULD BE NOTIFIED REGARDING THIS REQUIREMENT.

CONCRETE & REBAR SPECIFICATIONS

1. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH CBC SECTION 1905 AND ACI 301.
2. CONCRETE SHALL BE TYPE HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH OF 2500 PSI. CONCRETE SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO OF 0.50.
3. STEEL REINFORCING SHALL CONFORM TO ASTM DESIGNATION A614, GRADE 60.
4. PLACEMENT AND HANDLING OF STEEL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF SECTION 52, REINFORCEMENT OF THE CALTRANS STANDARD SPECIFICATIONS.

APPROXIMATE EARTHWORK QUANTITIES

SITE GRADING	CUBIC YARDS	
	CUT	FILL
	25	0
		25 CUT

- NOTES:
1. EARTHWORK QUANTITIES ARE APPROXIMATE AND SHALL BE INDEPENDENTLY VERIFIED BY THE CONTRACTOR FOR BIDDING PURPOSES.
2. EARTHWORK VOLUMES FOR RESIDENCE GRADING INCLUDE EXCAVATION TO ROUGH GRADE FOR CONSTRUCTION OF THE PROPOSED RESIDENCE. EARTHWORK VOLUMES REQUIRED TO CONSTRUCT THE FOUNDATIONS HAVE NOT BEEN INCLUDED.
3. EXCESS SOIL SHALL BE HAULED OR PLACED IN A COUNTY APPROVED LOCATION.

STORM DRAIN SYSTEM MAINTENANCE

THE HOME OWNER ASSOCIATION IS RESPONSIBLE FOR MAINTAINING THE STORM DRAINAGE SYSTEM AND ALL COMPONENTS. EVERY YEAR, PRIOR TO THE WET WEATHER SEASON (OCTOBER 15TH) ALL THE CATCH BASINS AND STORM DRAIN CLEANOUTS SHALL BE INSPECTED AND CLEANED OF ANY DEBRIS, SILT, TRASH AND SEDIMENT.

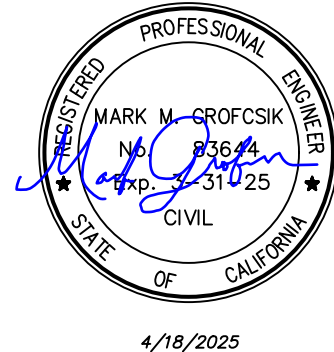
STORM DRAINAGE NOTES

1. CULVERTS SHALL BE REINFORCED CONCRETE PIPE (RCP), POLYVINYL CHLORIDE (PVC SDR35), OR HIGH DENSITY POLYETHYLENE (HDPE ADS N12 OR EQUAL) AND SHALL HAVE A SMOOTH INTERIOR CONFORMING TO SECTION E - STORM DRAINAGE FACILITIES OF COUNTY OF SANTA CRUZ DESIGN CRITERIA.
2. INLETS SHALL BE CHRISTY CONCRETE PRODUCTS OR APPROVED EQUAL WITH SMOOTH CONCRETE BOTTOM.
3. CONNECT ALL DOWNSPOUTS TO PERIMETER STORM DRAIN.

POST CONSTRUCTION STORM DRAIN SYSTEM MAINTENANCE SCHEDULE

ITEM	INTERVAL	INSPECTION	REPAIR
CATCH BASINS	ANNUAL	1. SEDIMENT BUILD UP 2. TRASH & DEBRIS	1. REMOVE SEDIMENT 2. REMOVE TRASH & DEBRIS
SWALES	ANNUAL	1. WASHOUTS 2. MISPLACED ROCK 3. ACCUMULATION OF TRASH & DEBRIS	1. REPLACE TRANSPORTED ROCK 2. REMOVE TRASH & DEBRIS

△ REVISED PER COUNTY COMMENTS 4/18/2025



RI Engineering, Inc.

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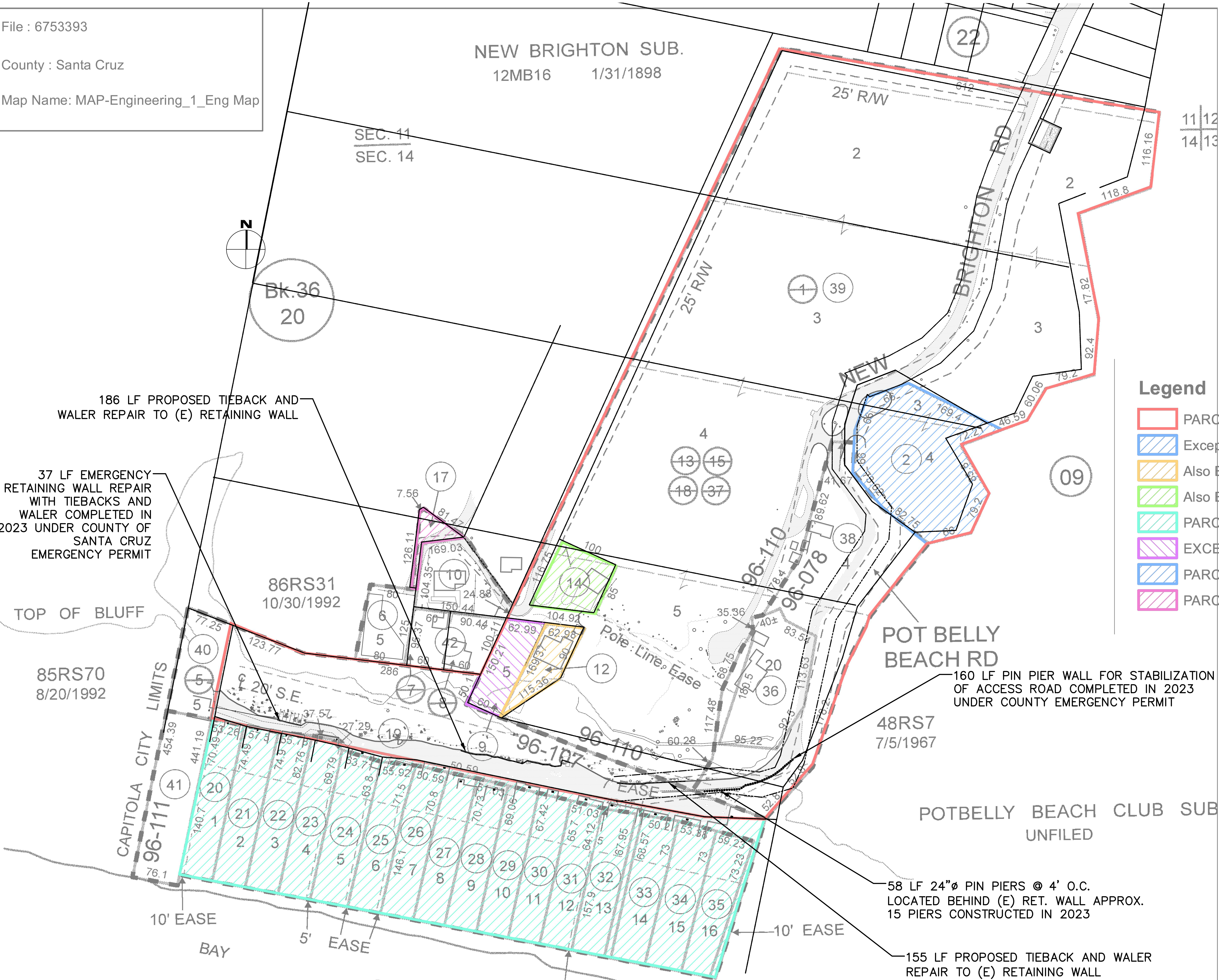
RETAINING WALL REPAIR AND PIN PIERS
FOR
POTBELLY BEACH CLUB
POTBELLY BEACH ROAD
SANTA CRUZ COUNTY, CALIFORNIA
APN 038-231-39

DETAILS

project no.
22-068-1
date
APRIL 2025
scale
AS SHOWN
dwg name
CIVIL2.DWG

C-7

File : 6753393
County : Santa Cruz
Map Name: MAP-Engineering_1_Eng Map



NOTE: This map is not a survey of the land depicted hereon. You should not rely upon it for any purpose other than orientation to the general location of the parcel or parcels depicted. First American Title Company expressly disclaims any liability for alleged loss or damage which may result from reliance upon this map.

REVISD PER COUNTY COMMENTS 4/18/2025



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RETAINING WALL REPAIR AND PIN PIERS FOR POTBELLY BEACH CLUB POTBELLY BEACH ROAD SANTA CRUZ COUNTY, CALIFORNIA APN 038-231-39	SITE PLAN
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