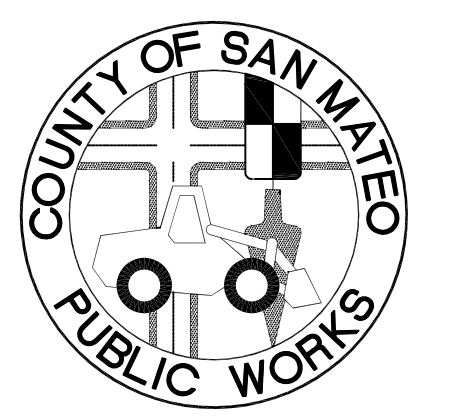


FITZGERALD MARINE RESERVE

COASTAL TRAIL

MOSS BEACH, CALIFORNIA

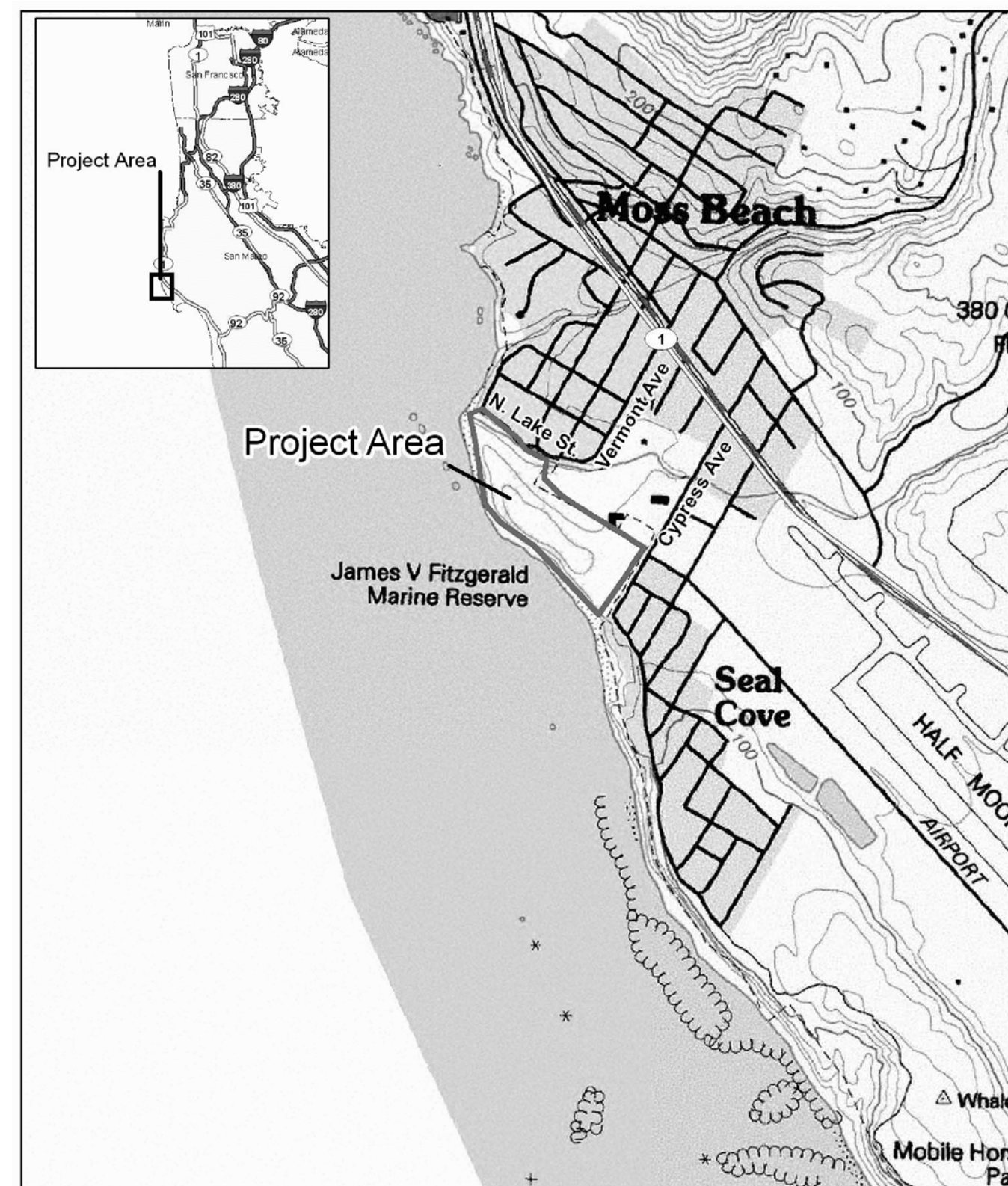
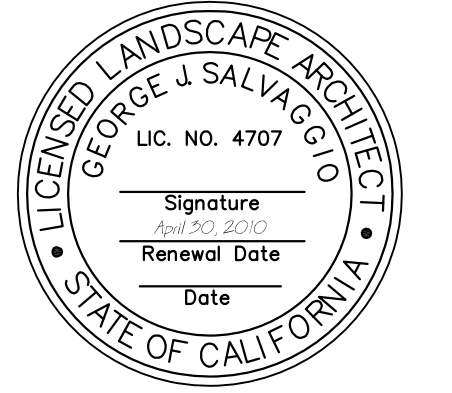


APPROVED: _____
 DATE: _____

DAVE HOLLAND, DIRECTOR OF SAN MATEO
 COUNTY PARKS DEPARTMENT

APPROVED: _____
 DATE: _____

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
 RCE # 48056 / EXPIRES 12-31-2011



LOCATION MAP NOT TO SCALE



SITE MAP SCALE: 1:100

GENERAL NOTES:

- The Contractor shall notify the Project Geotechnical Engineer a minimum of 48 hours prior to commencing any aspect of the work.
- The Contractor shall contact USA (Underground Service Alert) at least 48 hours in advance of work 800/227-2600.
- The Contractor shall possess a Class "A" License or combination of Class C licenses that are applicable for the majority of work at the time of this contract is awarded.
- Technical Specification 3315 Cast-in-Place Reinforced Concrete are part of the plans.
- The Contractor shall restore access routes to their original conditions. Damage caused to visible or known improvements, such as structures or pavements shall be repaired by the Contractor at no cost to the owners.
- All excess excavated debris and material shall be hauled from the site legally disposed of by the Contractor.
- All materials and workmanship shall be in accordance with the latest edition of the State of California, Department of Transportation (Caltrans) Standard Plans and Specifications.
- Improvement layouts may need to be modified in the field per the direction of the Engineer.
- See Section 3315 for concrete and steel requirements.

PIPE PILE NOTES:

- Piles shall be 3.5 inch O.D. and 2.9 inch I.D. 36 ksi steel pipe piles conforming to ASTM A501.
- All materials for pipe piles, including pipe, couplers, and caps shall be hot-dip galvanized. Repair welds and any removal of galvanization with paint-on zinc rich epoxy.
- All pipe piles shall be driven to the minimum depths specified on the plans and driven at a rate to provide at least 20 kips of vertical capacity.
- The pile Subcontractor shall supply shop drawings describing the details of the pile system and installation criteria for review by the Engineer. The Subcontractor shall not order or fabricate any material until the shop drawings are reviewed and accepted.

ARCHEOLOGICAL NOTES

- This project includes work within a known archeological site, CA-SMA-131. The Contractor shall review the Archeological Report and Memorandum of Understanding with Army Corps, and comply with all of the provisions and prohibitions prescribed in these documents.
- Protect ground surface of the site during construction by installing straw layer/wood mats on the surface in areas where equipment or other construction activities may disturb the ground surface.
- Install a permeable geo-textile barrier to differentiate fill from existing ground surface
- Install and maintain orange construction fencing to mark the boundary of construction activities within the site. All equipment and construction traffic shall be prohibited outside the fenced area.
- Utilize hand construction for the installation of the archeological cap, bridge abutment and trail within the archeological site when ever possible to limit damage from the operation of machinery.
- An archeological monitor shall be on-site during any ground disturbing construction within or within 50 feet of the recorded site boundary of CA-SMA-133.
- The archeological monitor shall have the authority to temporarily halt any ground disturbing construction to identify and evaluate any archeological materials inadvertently exposed during construction. The exposure of significant results could result in the development of a treatment program including scientific removal, analysis and reporting.

SHEET INDEX

- L-1 --- SHEET INDEX
- L-2 --- EXISTING CONDITIONS & DEMOLITION PLAN
- L-3 --- SITE PLAN
- L-4A --- SITE DETAILS
- L-4B --- SITE DETAILS
- L-5 --- STRUCTURAL DETAILS
- L-6 --- STRUCTURAL DETAILS
- L-7 --- GRADING PLAN
- L-8 --- SEEDING & PLANTING PLAN

Date	Issues And Revisions	No.
11/23/10	100% DRAFT CONSTRUCTION SET	

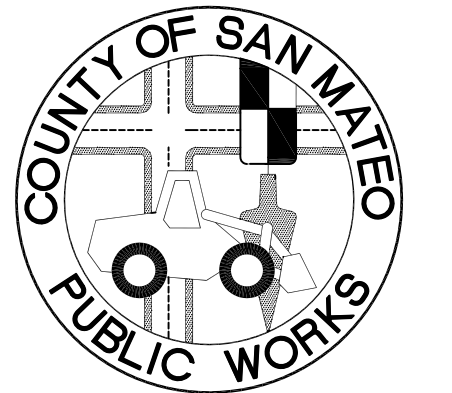
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 CHECKED BY: GJS
 ORIGINAL DRAWING SIZE: 24 X 36

SHEET INDEX

Sheet

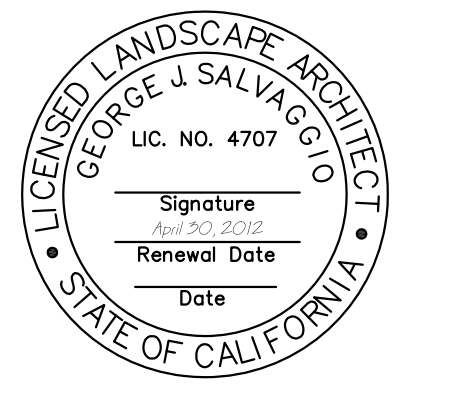
L-1

**FITZGERALD
MARINE RESERVE**
COASTAL TRAIL
MOSS BEACH, CALIFORNIA



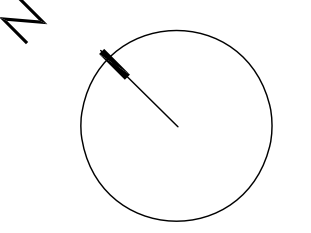
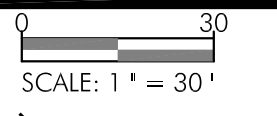
APPROVED: _____
DATE: _____
DAVE HOLLAND, DIRECTOR OF SAN MATEO COUNTY PARKS DEPARTMENT
APPROVED: _____
DATE: _____

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
RCE # 48056 / EXPIRES 12-31-2011



11/23/10 100% DRAFT CONSTRUCTION SET
Date Issues And Revisions No.

FILE NO. 1/4873
WRA PROJECT # 18054
DRAWN BY: MCB
CHECKED BY: GJS
ORIGINAL DRAWING SIZE: 24 X 36



**EXISTING
CONDITIONS &
DEMOLITION PLAN**

Sheet

L-2

GENERAL NOTES

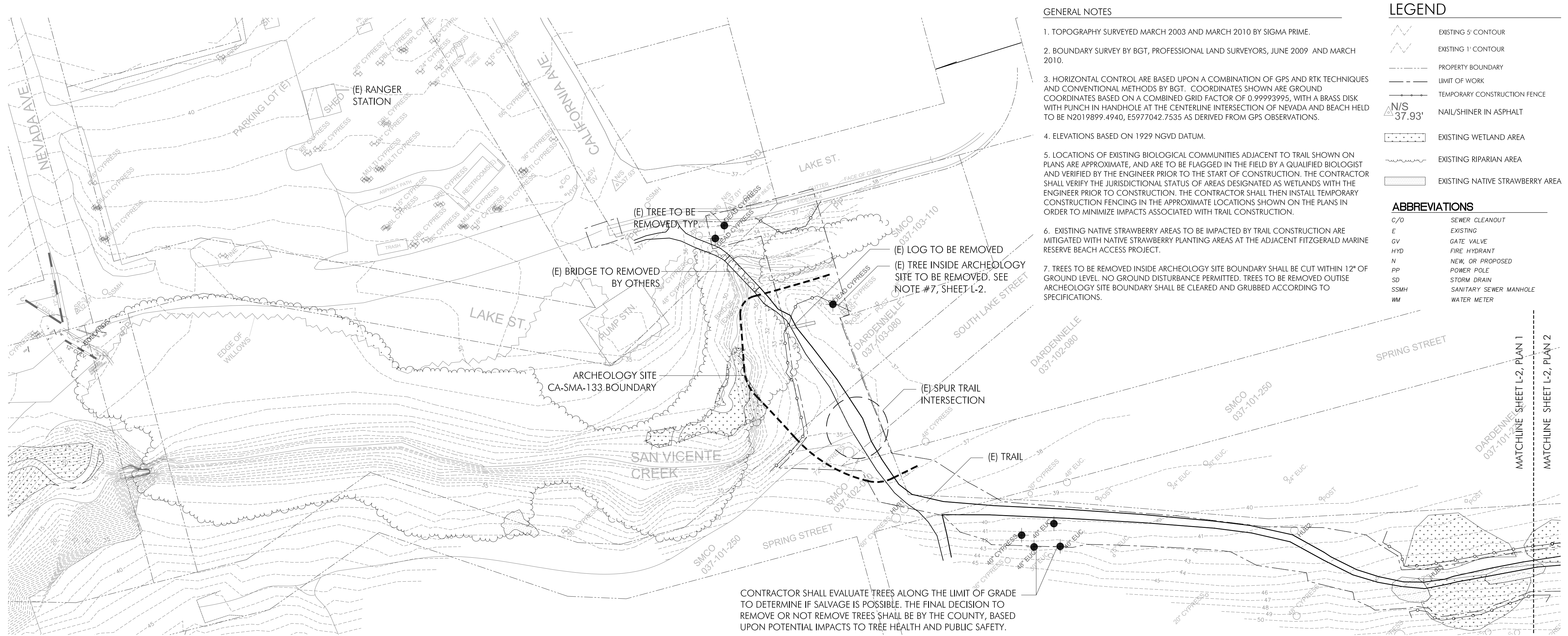
1. TOPOGRAPHY SURVEYED MARCH 2003 AND MARCH 2010 BY SIGMA PRIME.
2. BOUNDARY SURVEY BY BGT, PROFESSIONAL LAND SURVEYORS, JUNE 2009 AND MARCH 2010.
3. HORIZONTAL CONTROL ARE BASED UPON A COMBINATION OF GPS AND RTK TECHNIQUES AND CONVENTIONAL METHODS BY BGT. COORDINATES SHOWN ARE GROUND COORDINATES BASED ON A COMBINED GRID FACTOR OF 0.99993995, WITH A BRASS DISK WITH PUNCH IN HANDHOLE AT THE CENTERLINE INTERSECTION OF NEVADA AND BEACH HELD TO BE N2019899.4940, E5977042.7535 AS DERIVED FROM GPS OBSERVATIONS.
4. ELEVATIONS BASED ON 1929 NGVD DATUM.
5. LOCATIONS OF EXISTING BIOLOGICAL COMMUNITIES ADJACENT TO TRAIL SHOWN ON PLANS ARE APPROXIMATE, AND ARE TO BE FLAGGED IN THE FIELD BY A QUALIFIED BIOLOGIST AND VERIFIED BY THE ENGINEER PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE JURISDICTIONAL STATUS OF AREAS DESIGNATED AS WETLANDS WITH THE ENGINEER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL THEN INSTALL TEMPORARY CONSTRUCTION FENCING IN THE APPROXIMATE LOCATIONS SHOWN ON THE PLANS IN ORDER TO MINIMIZE IMPACTS ASSOCIATED WITH TRAIL CONSTRUCTION.
6. EXISTING NATIVE STRAWBERRY AREAS TO BE IMPACTED BY TRAIL CONSTRUCTION ARE MITIGATED WITH NATIVE STRAWBERRY PLANTING AREAS AT THE ADJACENT FITZGERALD MARINE RESERVE BEACH ACCESS PROJECT.
7. TREES TO BE REMOVED INSIDE ARCHEOLOGY SITE BOUNDARY SHALL BE CUT WITHIN 12" OF GROUND LEVEL. NO GROUND DISTURBANCE PERMITTED. TREES TO BE REMOVED OUTSIDE ARCHEOLOGY SITE BOUNDARY SHALL BE CLEARED AND GRUBBED ACCORDING TO SPECIFICATIONS.

LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- PROPERTY BOUNDARY
- LIMIT OF WORK
- TEMPORARY CONSTRUCTION FENCE
- NAIL/SHINER IN ASPHALT
- EXISTING WETLAND AREA
- EXISTING RIPARIAN AREA
- EXISTING NATIVE STRAWBERRY AREA

ABBREVIATIONS

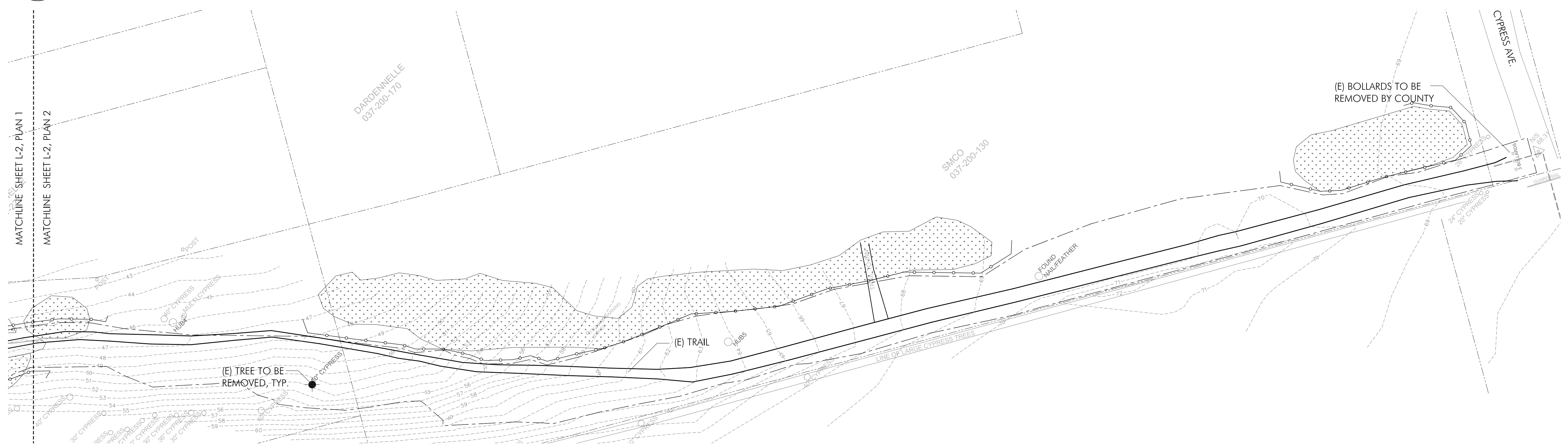
- C/O SEWER CLEANOUT
- E EXISTING
- GV GATE VALVE
- HYD FIRE HYDRANT
- N NEW, OR PROPOSED
- PP POWER POLE
- SD STORM DRAIN
- SSMH SANITARY SEWER MANHOLE
- WM WATER METER



CONTRACTOR SHALL EVALUATE TREES ALONG THE LIMIT OF GRADE TO DETERMINE IF SALVAGE IS POSSIBLE. THE FINAL DECISION TO REMOVE OR NOT REMOVE TREES SHALL BE BY THE COUNTY, BASED UPON POTENTIAL IMPACTS TO TREE HEALTH AND PUBLIC SAFETY.

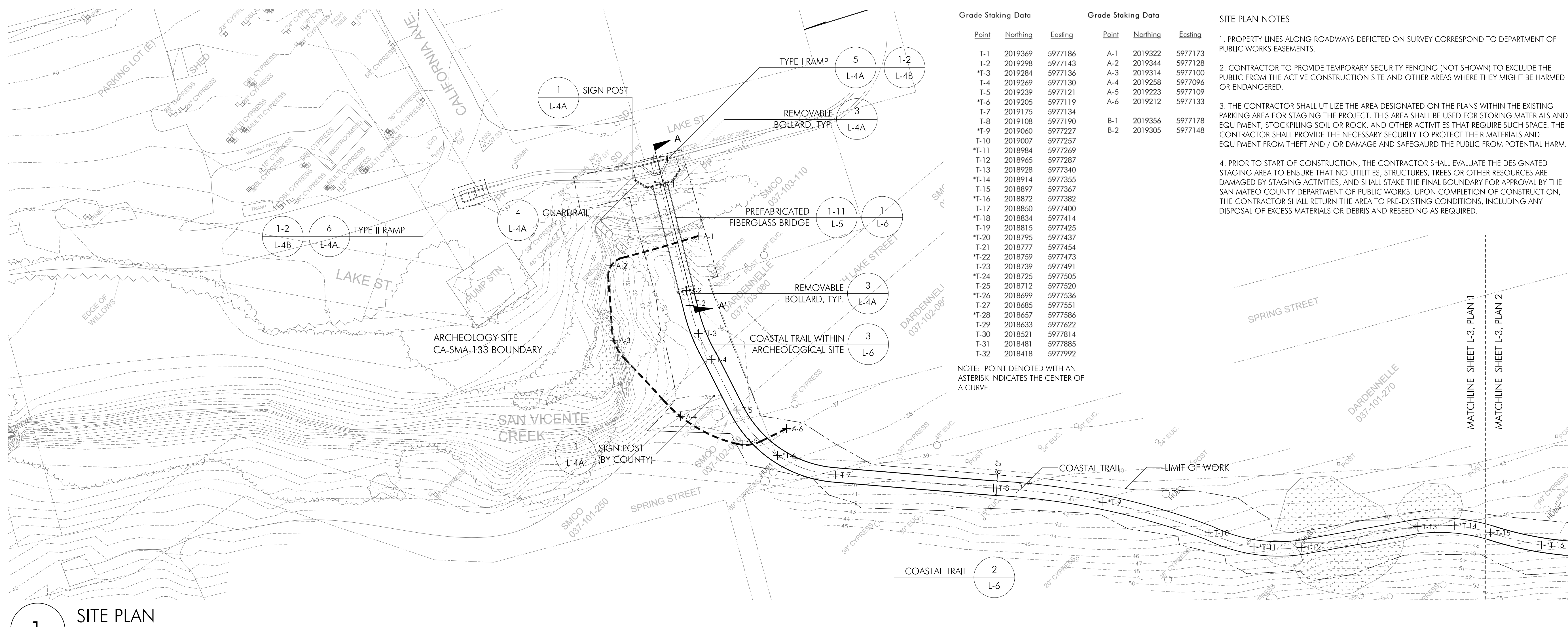
1 EXISTING CONDITIONS & DEMOLITION PLAN

SCALE 1" = 30'

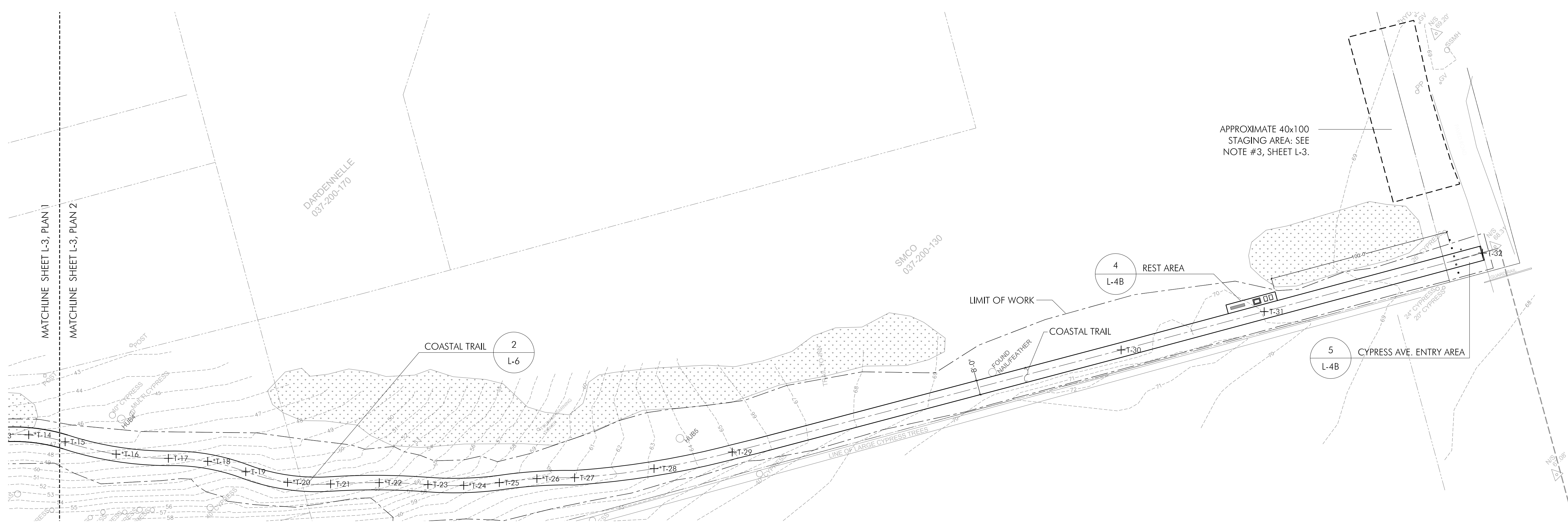


2 EXISTING CONDITIONS & DEMOLITION PLAN

SCALE 1" = 30'



1 SITE PLAN
SCALE 1" = 30'

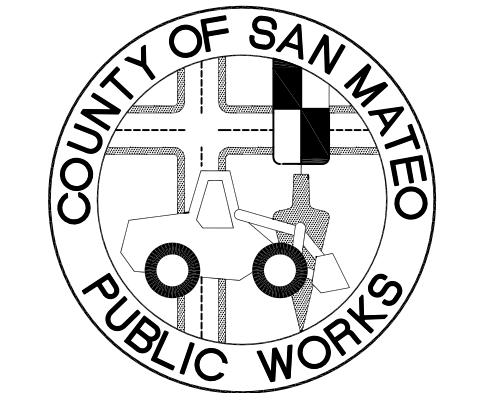


2 SITE PLAN
SCALE 1" = 30'

- SITE PLAN NOTES**
- PROPERTY LINES ALONG ROADWAYS DEPICTED ON SURVEY CORRESPOND TO DEPARTMENT OF PUBLIC WORKS EASEMENTS.
 - CONTRACTOR TO PROVIDE TEMPORARY SECURITY FENCING (NOT SHOWN) TO EXCLUDE THE PUBLIC FROM THE ACTIVE CONSTRUCTION SITE AND OTHER AREAS WHERE THEY MIGHT BE HARMED OR ENDANGERED.
 - THE CONTRACTOR SHALL UTILIZE THE AREA DESIGNATED ON THE PLANS WITHIN THE EXISTING PARKING AREA FOR STAGING THE PROJECT. THIS AREA SHALL BE USED FOR STORING MATERIALS AND EQUIPMENT, STOCKPILING SOIL OR ROCK, AND OTHER ACTIVITIES THAT REQUIRE SUCH SPACE. THE CONTRACTOR SHALL PROVIDE THE NECESSARY SECURITY TO PROTECT THEIR MATERIALS AND EQUIPMENT FROM THEFT AND / OR DAMAGE AND SAFEGUARD THE PUBLIC FROM POTENTIAL HARM.
 - PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL EVALUATE THE DESIGNATED STAGING AREA TO ENSURE THAT NO UTILITIES, STRUCTURES, TREES OR OTHER RESOURCES ARE DAMAGED BY STAGING ACTIVITIES, AND SHALL STAKE THE FINAL BOUNDARY FOR APPROVAL BY THE SAN MATEO COUNTY DEPARTMENT OF PUBLIC WORKS. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RETURN THE AREA TO PRE-EXISTING CONDITIONS, INCLUDING ANY DISPOSAL OF EXCESS MATERIALS OR DEBRIS AND RESEEDING AS REQUIRED.



**FITZGERALD
MARINE RESERVE**
COASTAL TRAIL
MOSS BEACH, CALIFORNIA

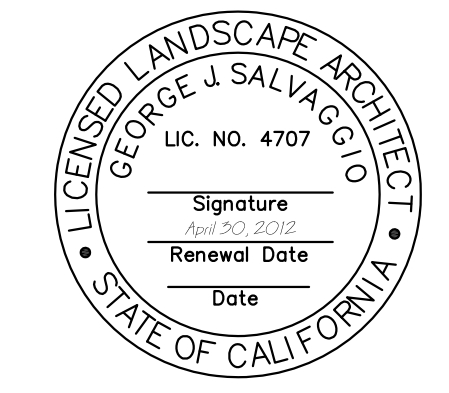


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DAVE HOLLAND, DIRECTOR OF SAN MATEO COUNTY PARKS DEPARTMENT

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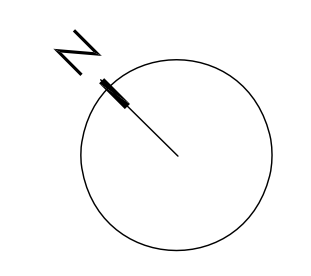
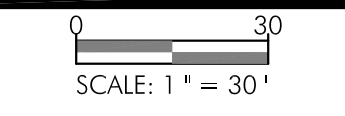
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
RCE # 48056 / EXPIRES 12-31-2011



11/23/10 100% DRAFT CONSTRUCTION SET

Date	Issues And Revisions	No.

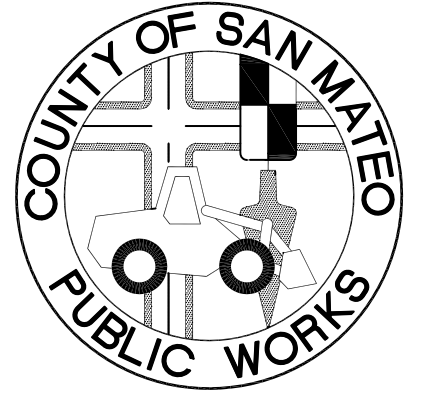
FILE NO. 1/4873
WRA PROJECT # 18054
DRAWN BY: MCB
CHECKED BY: GJS
ORIGINAL DRAWING SIZE: 24 X 36



SITE PLAN
Sheet

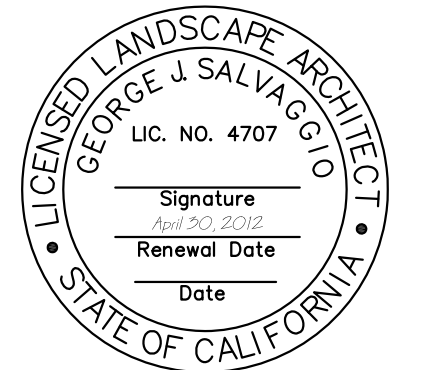
L-3

**FITZGERALD
 MARINE RESERVE**
 COASTAL TRAIL
 MOSS BEACH, CALIFORNIA



APPROVED: _____
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 DAVE HOLLAND, DIRECTOR OF SAN MATEO
 COUNTY PARKS DEPARTMENT
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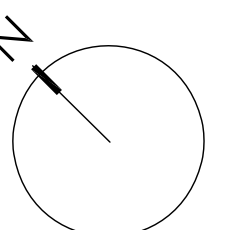
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
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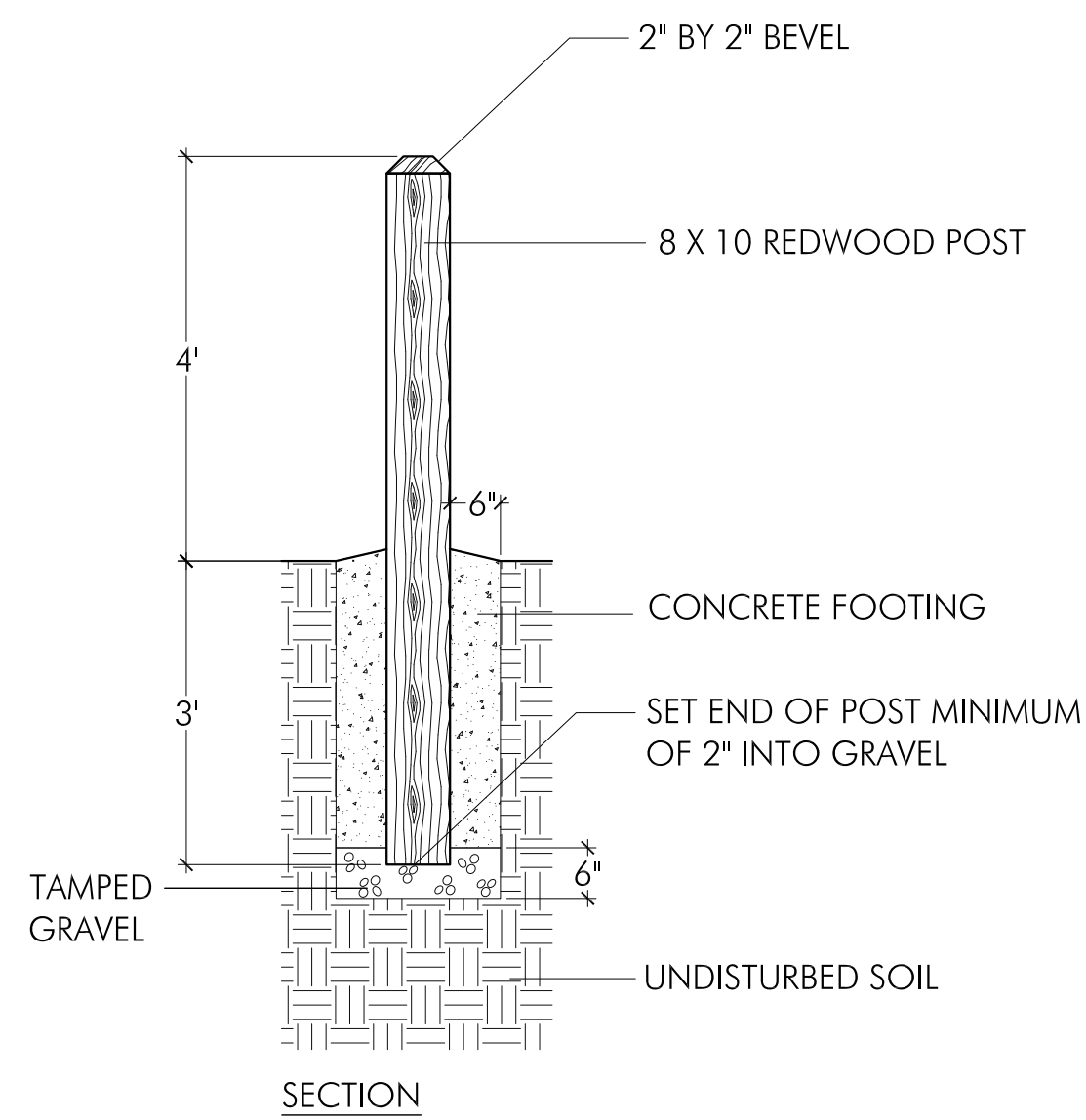
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SITE DETAILS

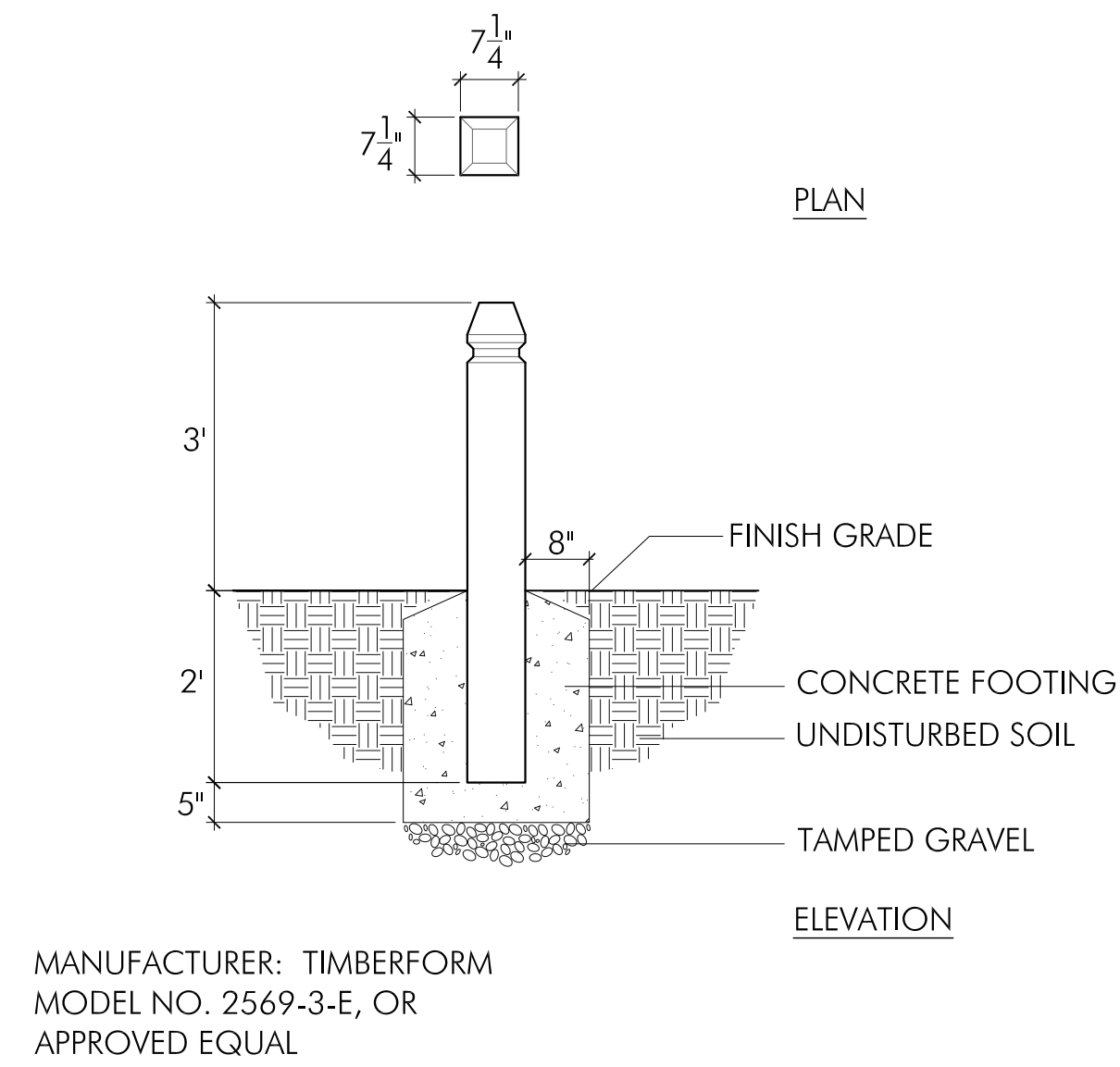
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L-4A



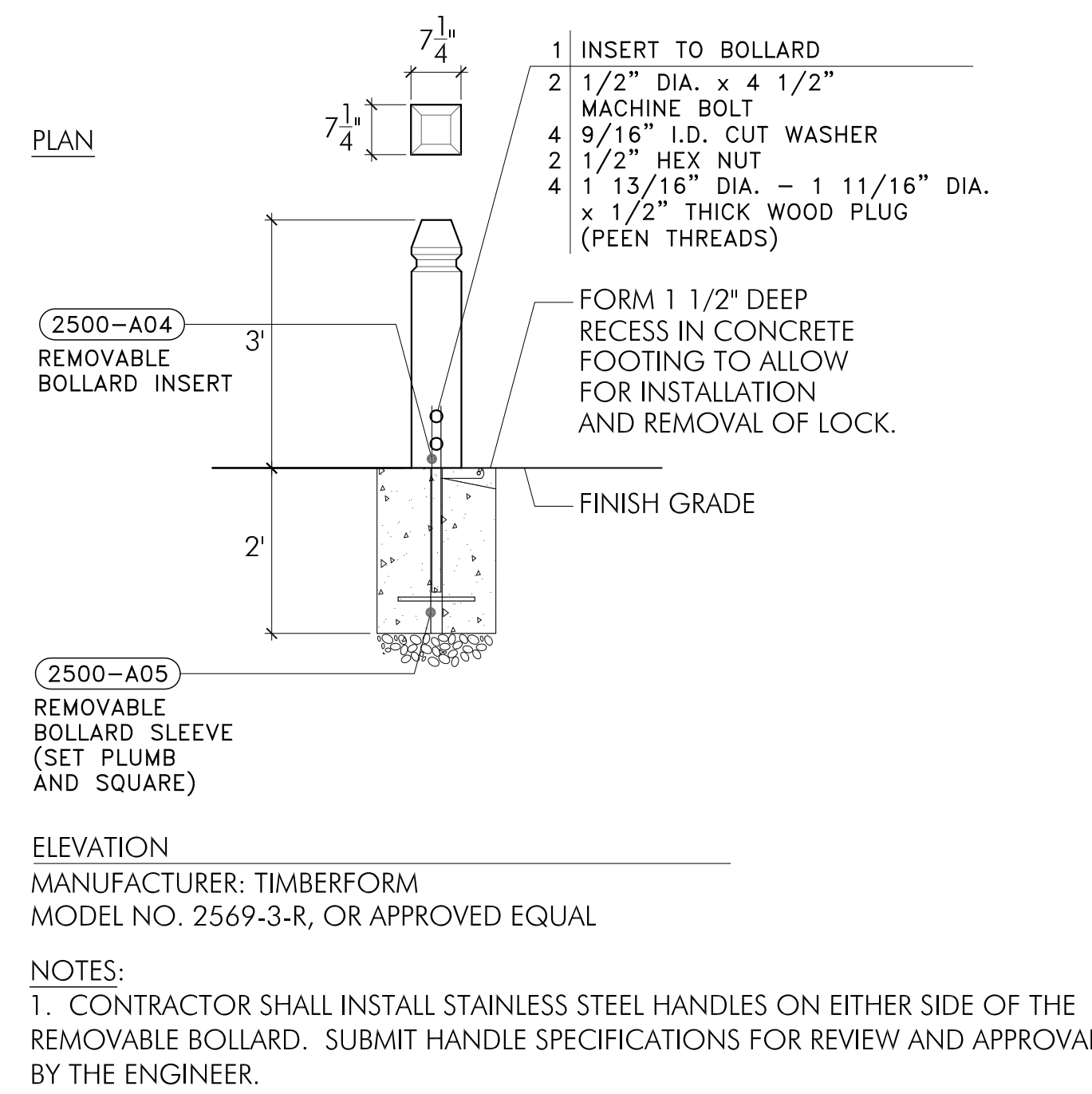
NOTE: SIGN PROVIDED AND INSTALLED BY COUNTY.

1 SIGN POST
 NOT TO SCALE



MANUFACTURER: TIMBERFORM
 MODEL NO. 2569-3-E, OR
 APPROVED EQUAL

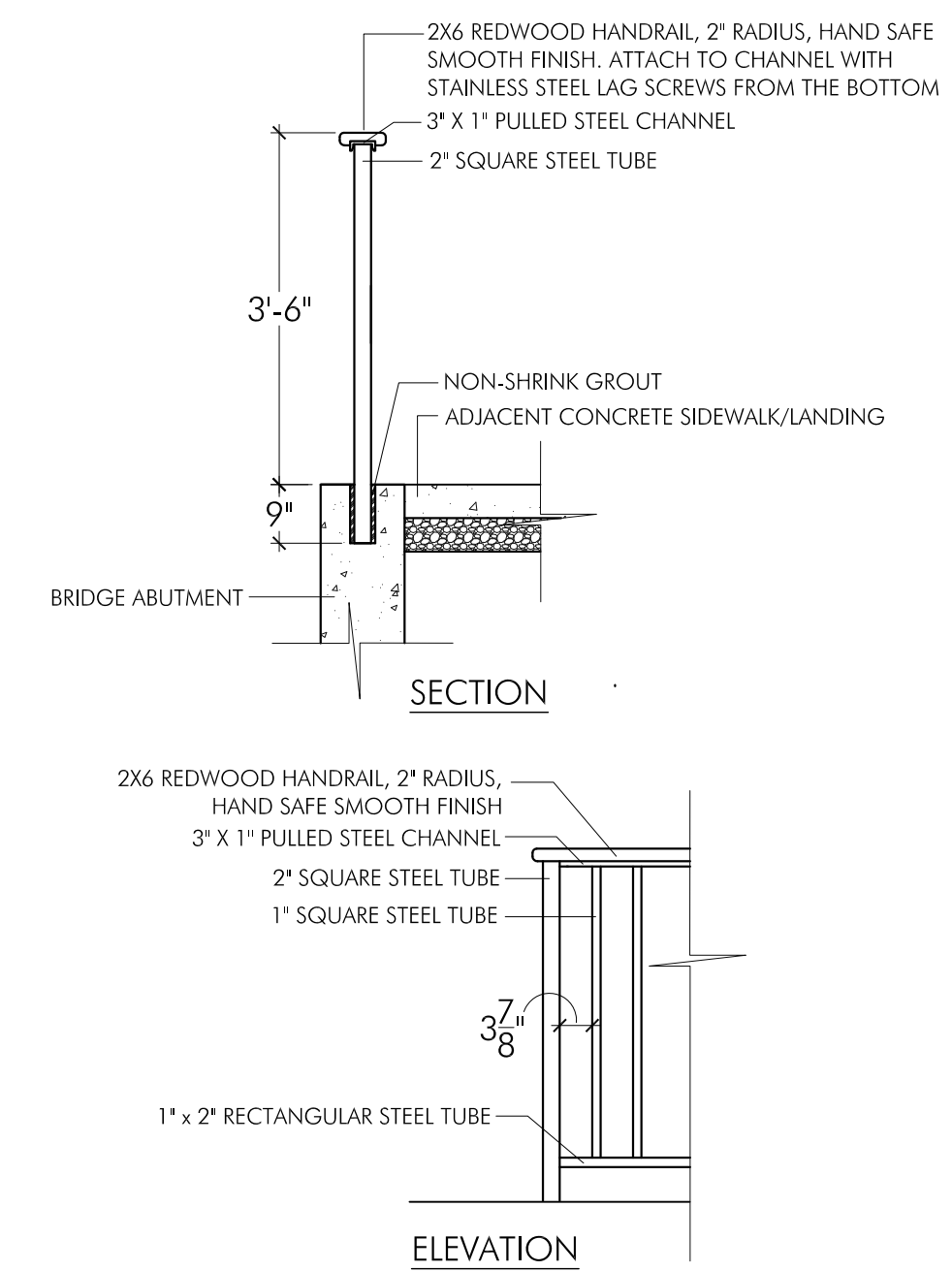
2 FIXED BOLLARD
 NOT TO SCALE



MANUFACTURER: TIMBERFORM
 MODEL NO. 2569-3-R, OR APPROVED EQUAL

NOTES:
 1. CONTRACTOR SHALL INSTALL STAINLESS STEEL HANDLES ON EITHER SIDE OF THE REMOVABLE BOLLARD. SUBMIT HANDLE SPECIFICATIONS FOR REVIEW AND APPROVAL BY THE ENGINEER.

3 REMOVABLE BOLLARD
 NOT TO SCALE

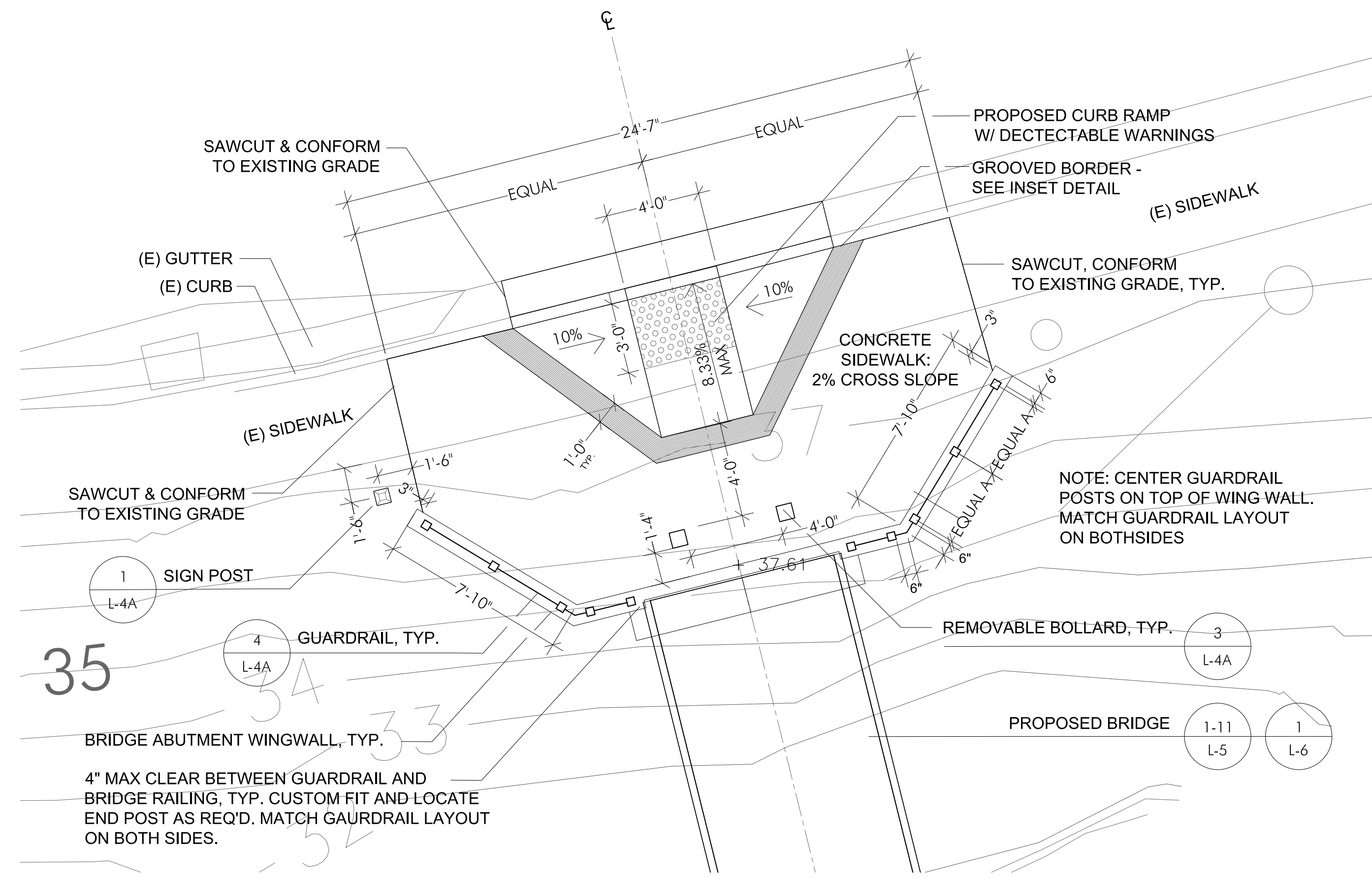
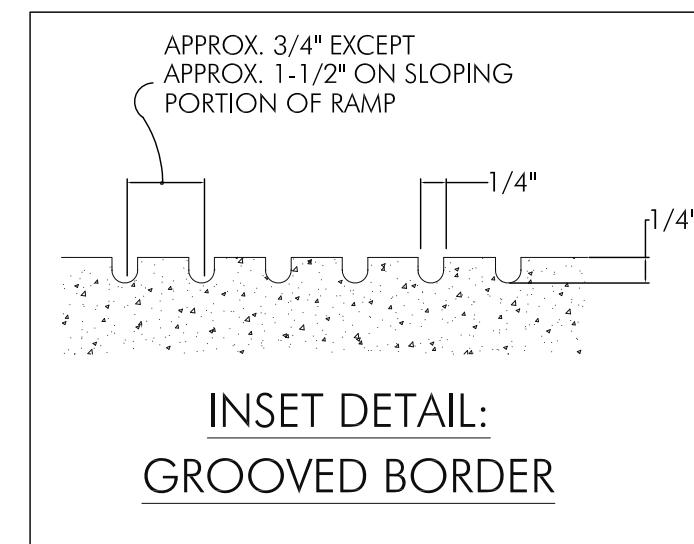


NOTES:
 1. ALL STEEL COMPONENTS SHALL HAVE A CLASS 3 GALVANIZED, WITH POWDER COAT FINISH. POWDER COAT COLOR TO MATCH GUARDRAIL OF THE ADJACENT BRIDGE. PROVIDE COLOR SAMPLE TO PROJECT ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 2. ALL SHOP WELDS SHALL BE GRIND AND SANDED SMOOTH

4 GUARDRAIL
 NOT TO SCALE

DETAIL NOTES

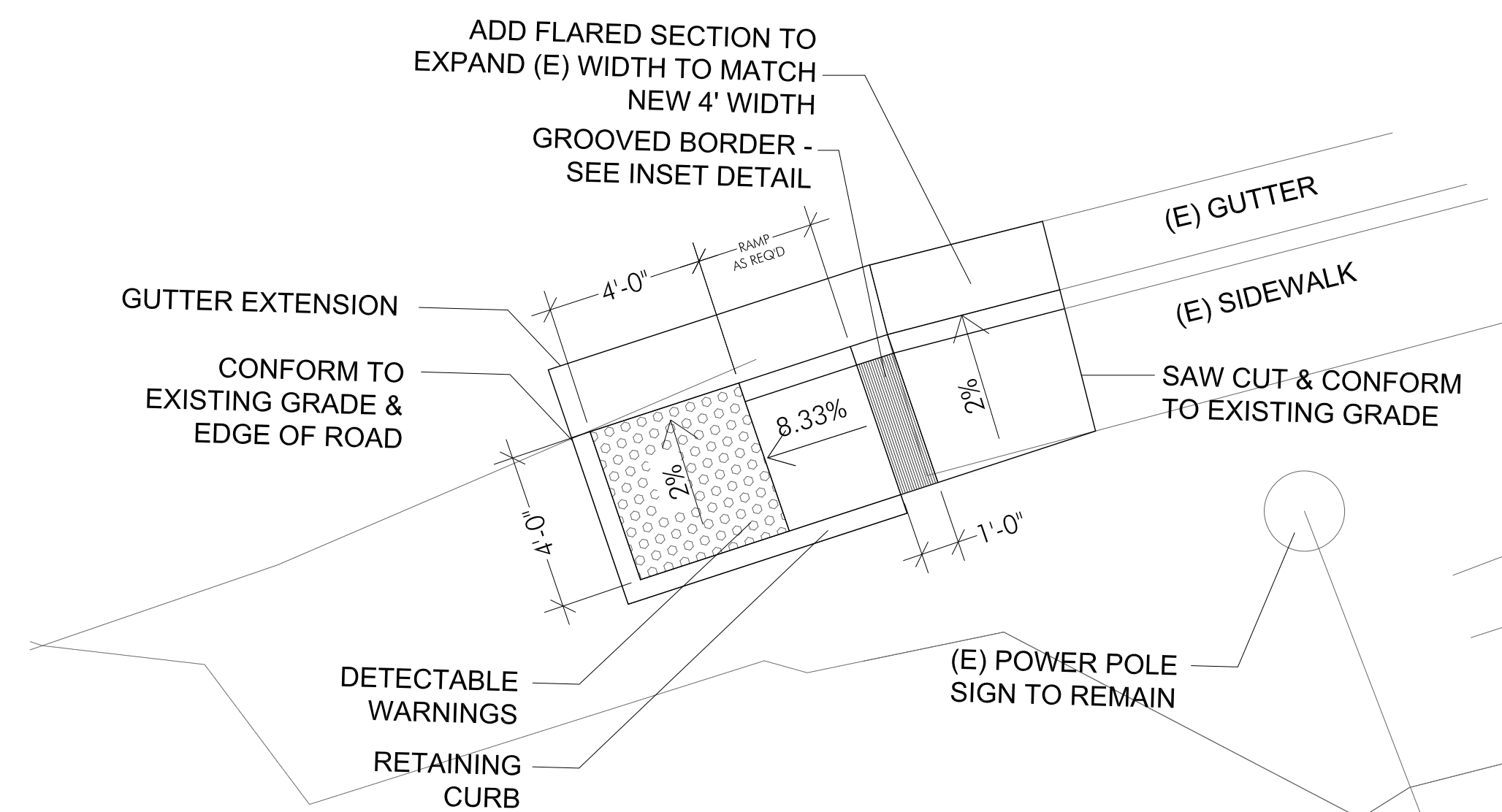
1. CONCRETE FOR FOOTINGS IN DETAILS 1,2,3, AND 4 ON SHEET L-4A AND DETAIL 3 ON SHEET L-4B SHALL BE A STANDARD PREMIX CONCRETE OR EQUIVALENT, 3000 PSI STRENGTH AS CERTIFIED BY THE MANUFACTURER. NO ON-SITE STRENGTH TESTING REQUIRED.



NOTES:
 1) SEE DETAIL #2, SHEET L4-B FOR TYPICAL ACCESS RAMP SECTION AND NOTES, AND ADAPT TO SITE PLAN AS SPECIFIED.

SCALE: 1/4" = 1'-0"

5 TYPE I ACCESS RAMP
 SCALE: 1/4" = 1'-0"

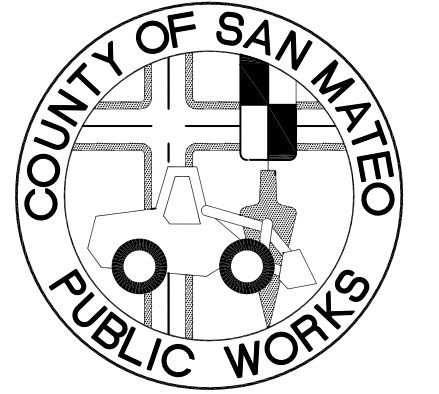


NOTES:
 1) DETECTABLE WARNINGS ON RAMP OMITTED PER THE REQUEST OF THE COUNTY OF SAN MATEO.
 1) SEE DETAIL #2, SHEET L4-B FOR TYPICAL ACCESS RAMP SECTION AND NOTES, AND ADAPT TO SITE PLAN AS SPECIFIED.

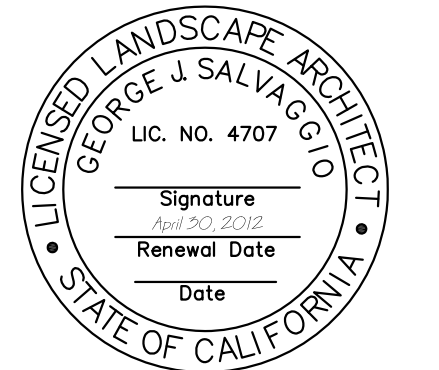
SCALE: 1/4" = 1'-0"

6 TYPE II ACCESS RAMP
 SCALE: 1/4" = 1'-0"

**FITZGERALD
 MARINE RESERVE**
 COASTAL TRAIL
 MOSS BEACH, CALIFORNIA



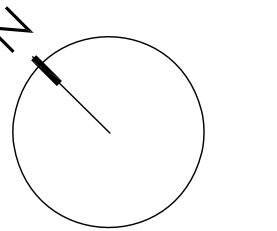
APPROVED: _____
 DATE: _____
 DAVE HOLLAND, DIRECTOR OF SAN MATEO
 COUNTY PARKS DEPARTMENT
 APPROVED: _____
 DATE: _____
 JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
 RCE # 48056 / EXPIRES 12-31-2011



11/23/10 100% DRAFT CONSTRUCTION SET
 Date Issues And Revisions No.

FILE NO. 1/4873
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 DRAWN BY: MCB
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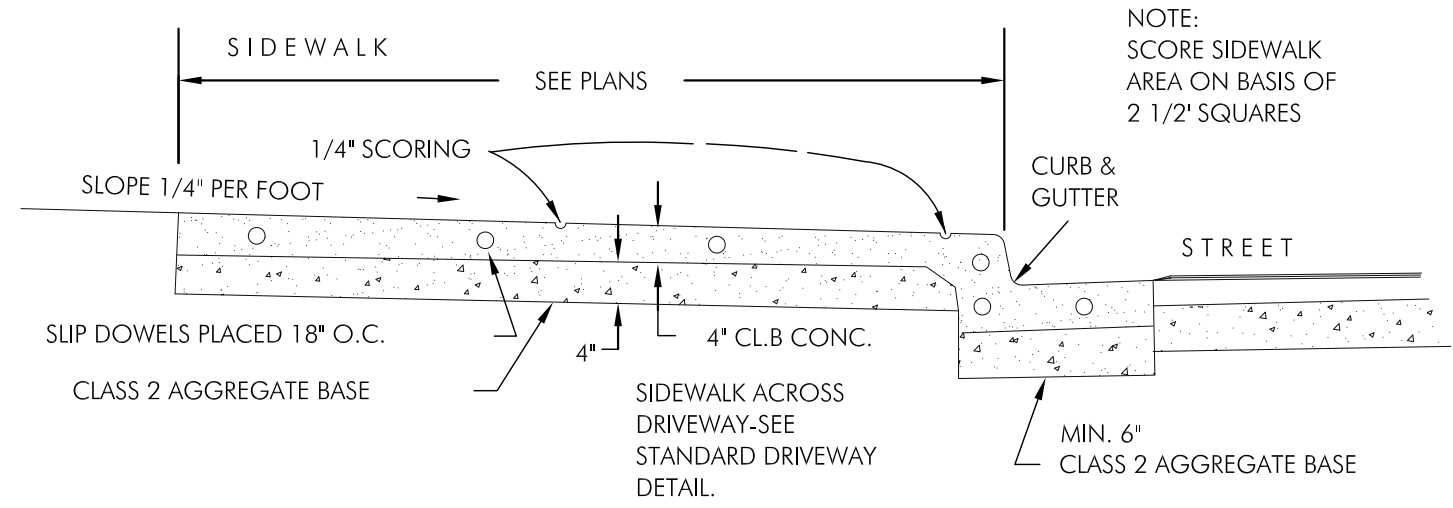
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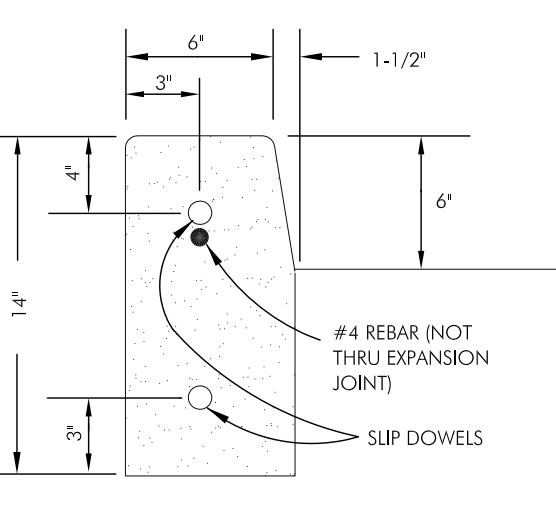
SITE DETAILS

Sheet

L-4B

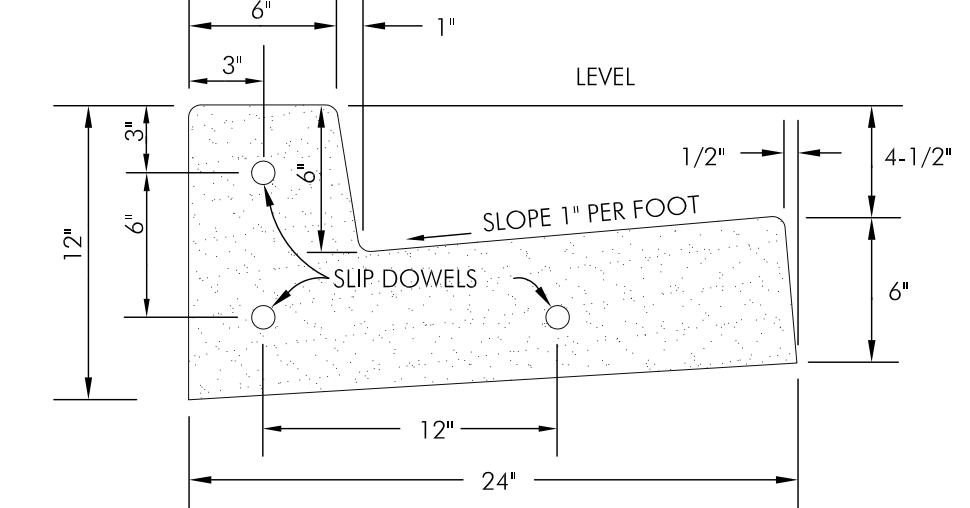


**TYPICAL SECTION
 MONOLITHIC CURB, GUTTER AND SIDEWALK**

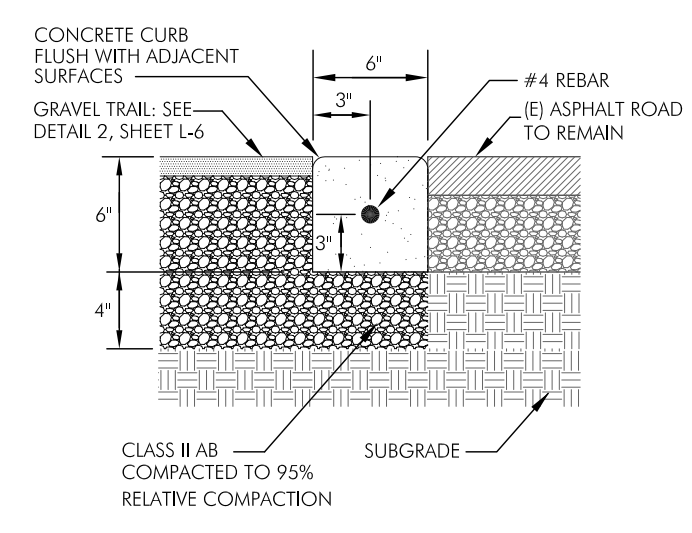


RETAINING CURB (A1-6)

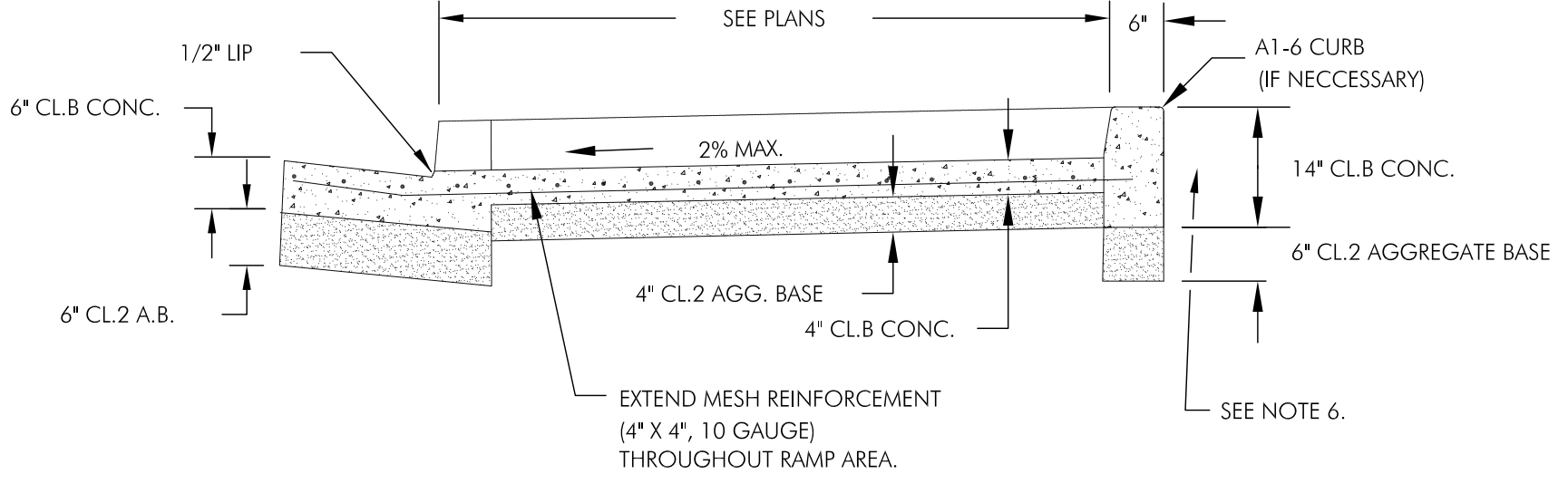
- NOTES:**
1. ALL CONCRETE TO BE CLASS B CONCRETE.
 2. MINIMUM SIDEWALK THICKNESS = 4 INCHES P.C.C.
 3. PLACE 1/2" DIAMETER X 18" LONG DOWELS AT EXPANSION JOINTS AS SHOWN.
 4. PLACE 1/2" THICK EXPANSION JOINTS FULL WIDTH 20' ON CENTER.
 5. CONSTRUCT MONOLITHIC CURB, GUTTER AND SIDEWALK UNLESS OTHERWISE SPECIFICALLY AUTHORIZED BY THE DIRECTOR OF PUBLIC WORKS.
 6. SUB-BASE MATERIALS WITHIN 30" OF SUBGRADE SHALL BE COMPACTED TO 95%.
 7. OBSTRUCTIONS SUCH AS POLES, HYDRANTS, STREET SIGNS, UTILITY BOXES, STREET LIGHTS, ETC. SHALL BE LOCATED BEHIND THE SIDEWALK, UNLESS OTHERWISE SPECIFICALLY AUTHORIZED BY THE DIRECTOR OF PUBLIC WORKS. A CLEAR ZONE ALONG THE CURB AND SIDEWALK 18 INCHES IN WIDTH (MEASURED FROM THE FACE OF THE CURB) SHALL BE KEPT CLEAR AND OPEN FROM ALL OBSTRUCTIONS. IN ADDITION, AN AREA 3 FEET IN WIDTH ALONG THE SIDEWALK, EXCLUSIVE OF THE CURB WIDTH, SHALL BE KEPT CLEAR AND OPEN FROM ALL OBSTRUCTIONS IN COMPLIANCE WITH THE STATE BUILDING CODE (PART 2, TITLE 24, C.A.C.).



ALT - SEPARATE CURB AND GUTTER

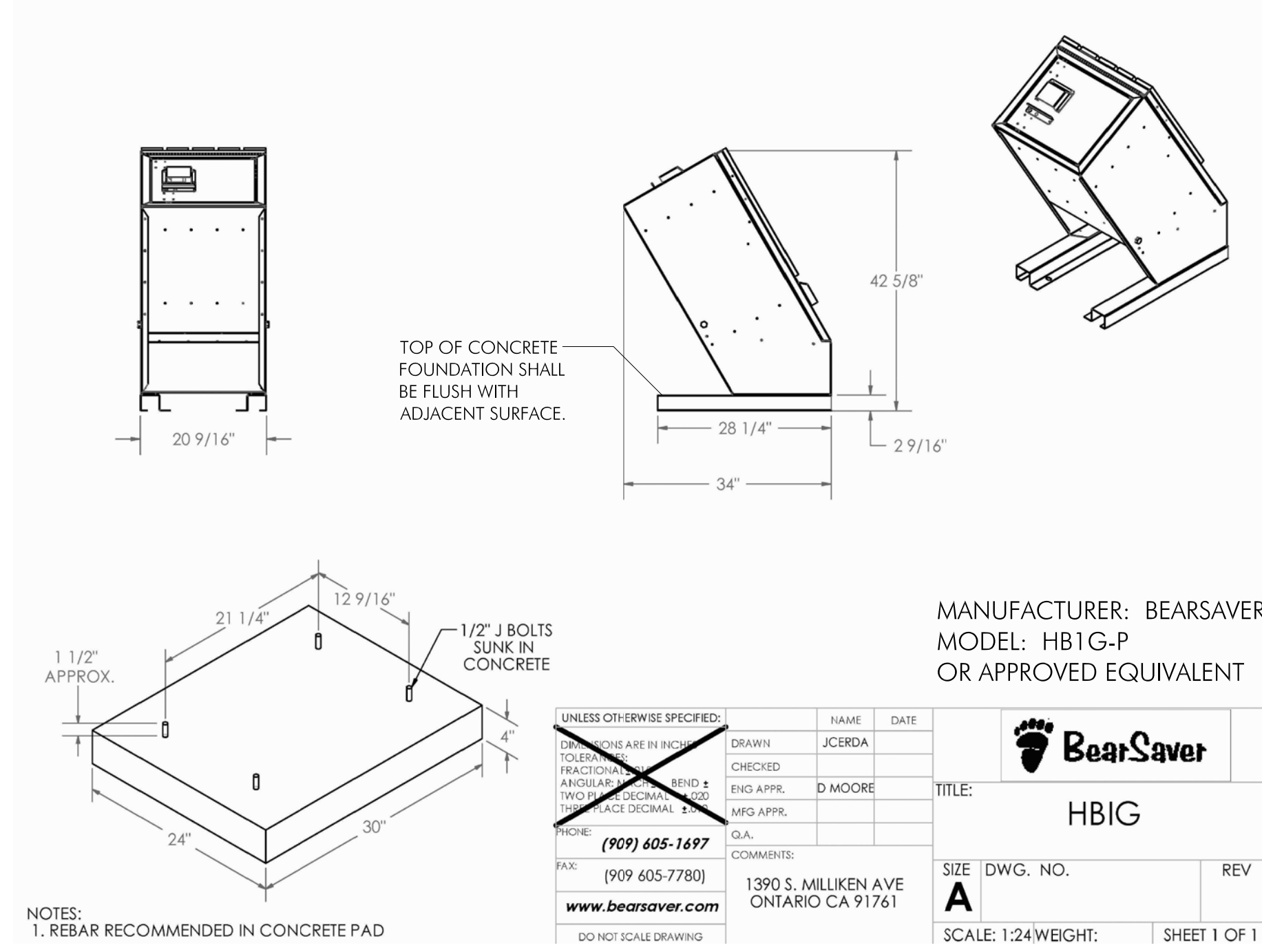


FLUSH CURB



**TYPICAL SECTION
 ACCESS RAMP**

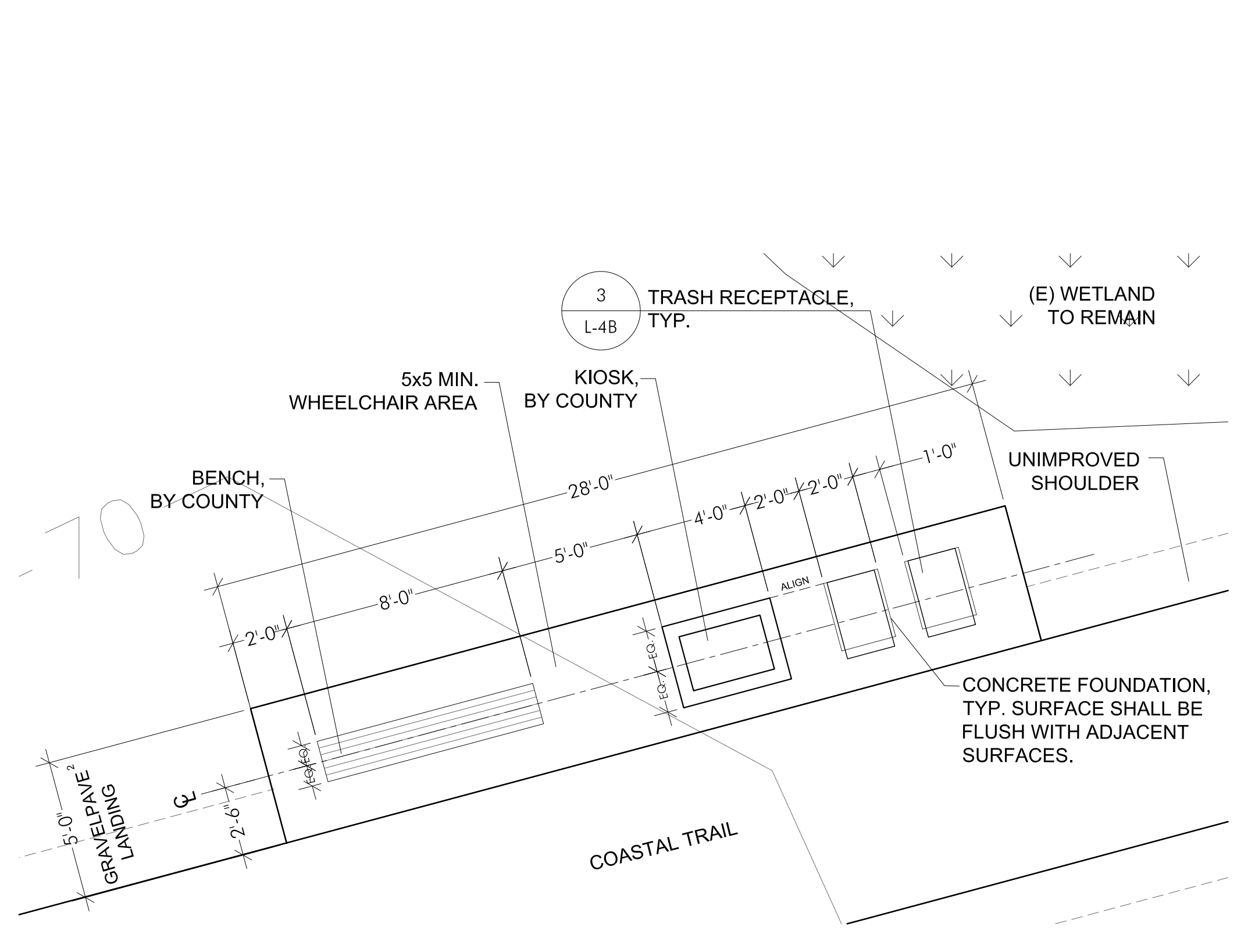
- GENERAL NOTES:**
1. CURB RAMPS THAT HAVE A RAMP SLOPE FLATTER THAN 6.67% SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH OF THE RAMP AND 24" MINIMUM LENGTH. DETECTABLE WARNING SURFACES, AT THE OPTION OF THE CONTRACTOR, SHALL BE CONSTRUCTED BY CAST-IN-PLACE OR STAMPED METHOD, OR CONSIST OF A PREFABRICATED SURFACE. THE PREFABRICATED SURFACE SHALL REQUIRE APPROVAL BY THE ENGINEER.
 2. TRANSITIONS FROM RAMPS TO WALKS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE BOTTOM OF THE RAMP SHALL HAVE A 1/2" UP AT 45°.
 3. INSTALL SLIP DOWELS 18" O.C. AT EXPANSION JOINTS.
 4. MINIMUM WIDTH OF RAMP, NOT INCLUDING RETAINING CURB, SHALL BE 4 FEET.
 5. THE SURFACE OF RAMP SHALL HAVE A TRANSVERSE BROOMED SURFACE TEXTURE ROUGHER THAN THE SURROUNDING SIDEWALK EXCEPT WHEN LOCATED IN CENTER OF CURB RETURN.
 6. BACKFILL MATERIAL TO BE PLACED FLUSH WITH TOP OF CURB.
 7. CONSTRUCT MONOLITHIC CURB, GUTTER, AND SIDEWALK.
 8. SUB-BASE MATERIAL WITHIN 2.5' OF SUBGRADE SHALL BE COMPACTED TO 95%.
 9. RECONSTRUCT SIDEWALK TO NEAREST SCORE LINE AND INSTALL EXPANSION JOINT.
 10. UTILITY PULL BOXES, MANHOLES, VAULTS AND ALL OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP WILL BE RELOCATED BY OTHERS PRIOR TO, OR IN CONJUNCTION WITH, CURB RAMP CONSTRUCTION



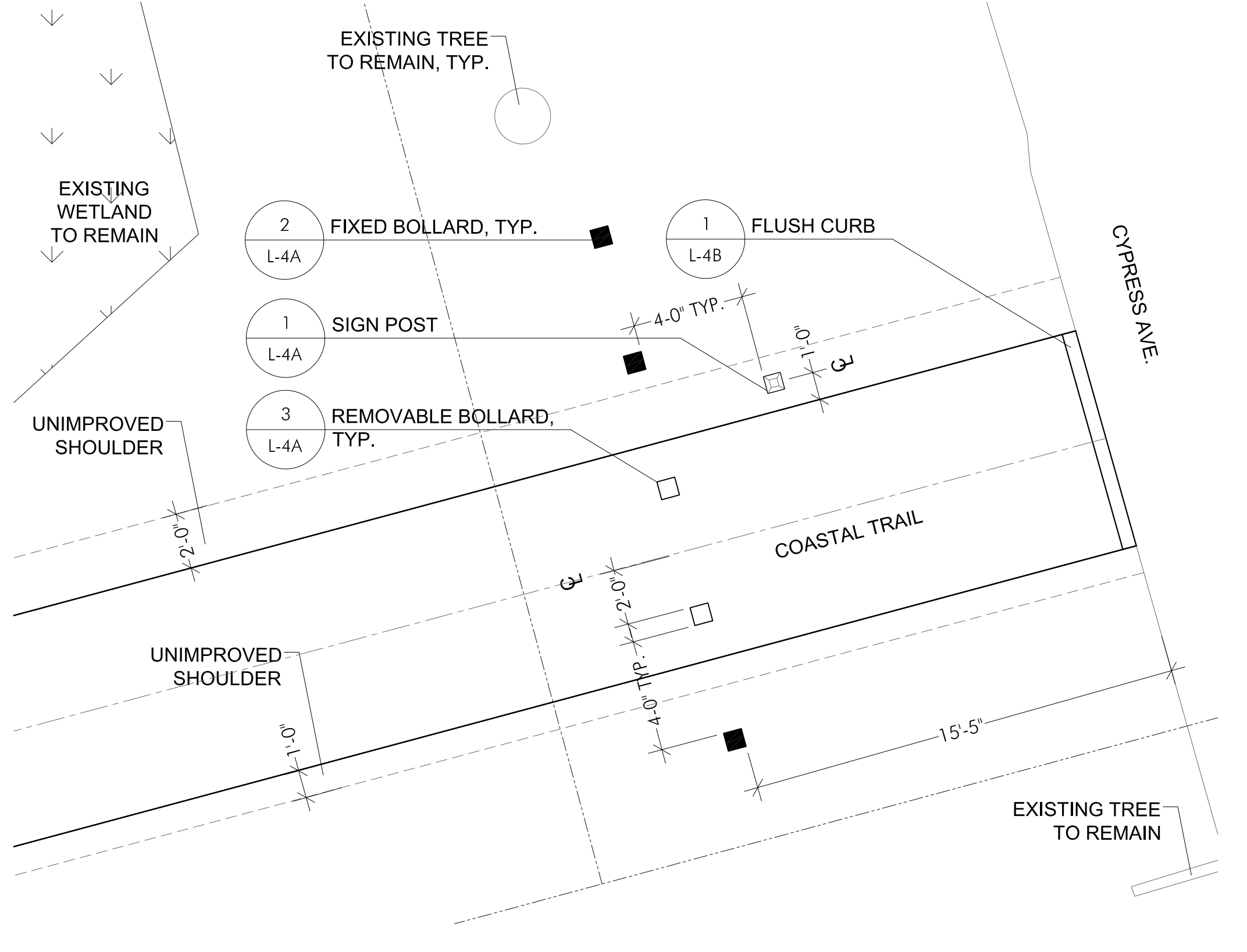
**3 TRASH RECEPTACLE
 NOT TO SCALE**

**1 SIDEWALK
 NOT TO SCALE**

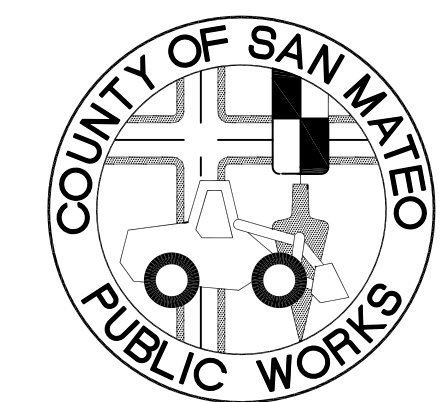
**2 TYPICAL ACCESS RAMP SECTION
 NOT TO SCALE**



**4 REST AREA
 SCALE: 1/4" = 1'-0"**



**5 CYPRESS. AVE. ENTRANCE
 SCALE: 1/4" = 1'-0"**



APPROVED:

DATE: _____

DAVE HOLLAND, DIRECTOR OF SAN MATEO COUNTY PARKS DEPARTMENT

APPROVED:

DATE: _____

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
RCE # 48056 / EXPIRES 12-31-2011



11/23/10 100% DRAFT CONSTRUCTION SET

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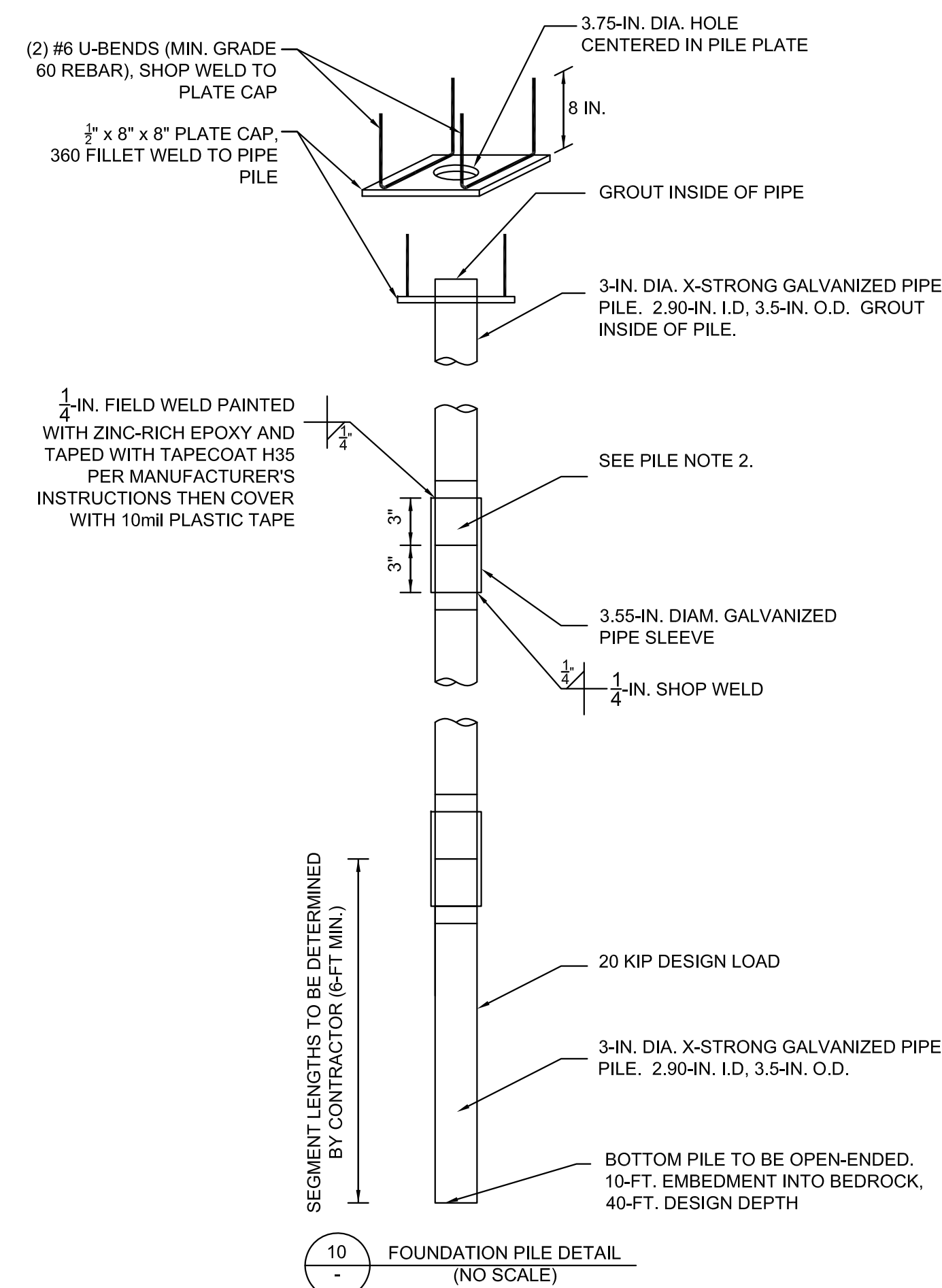
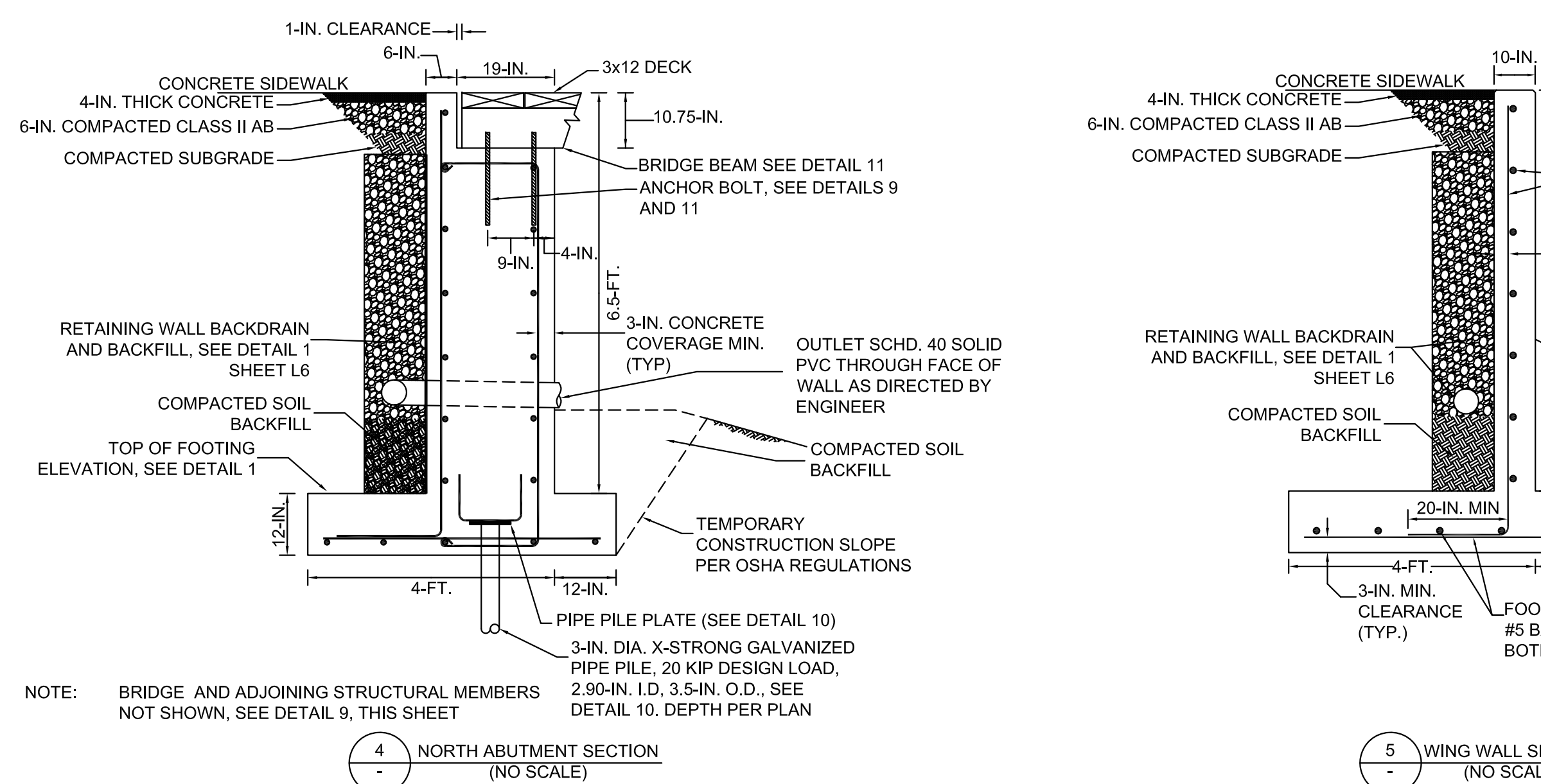
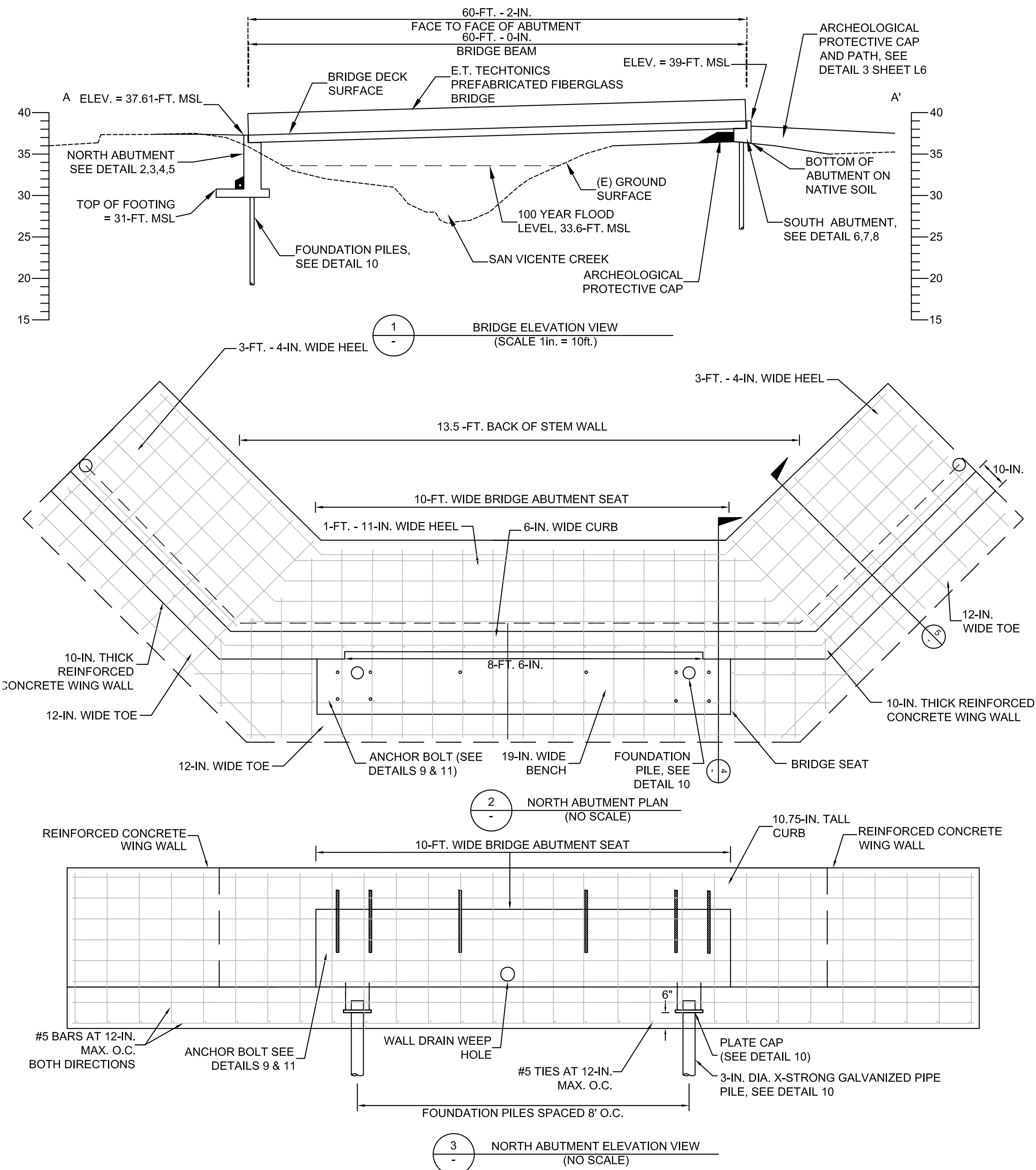
FILE NO. 1/4872
WRA PROJECT #18054
DRAWN BY: DFS
CHECKED BY: SAS
ORIGINAL DRAWING SIZE: 24 X 36

SCALE: AS INDICATED

STRUCTURAL
DETAILS

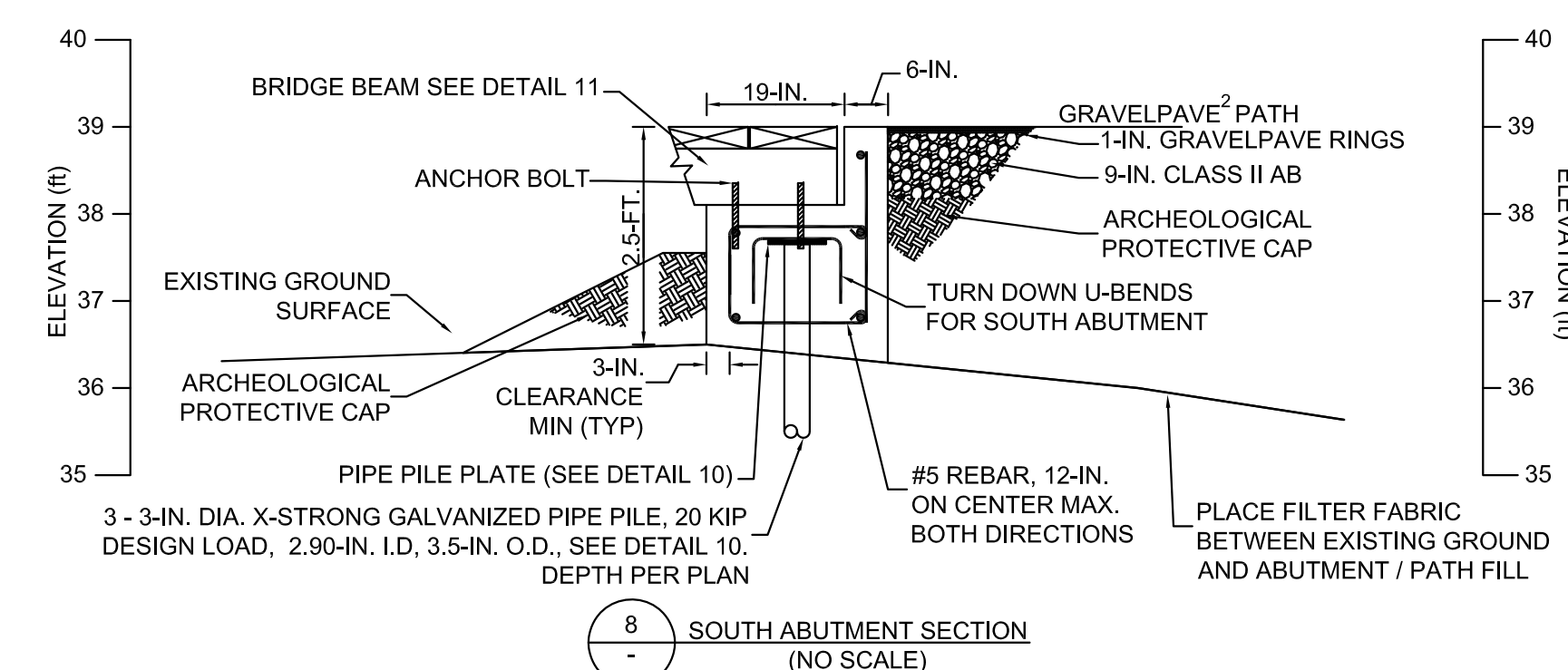
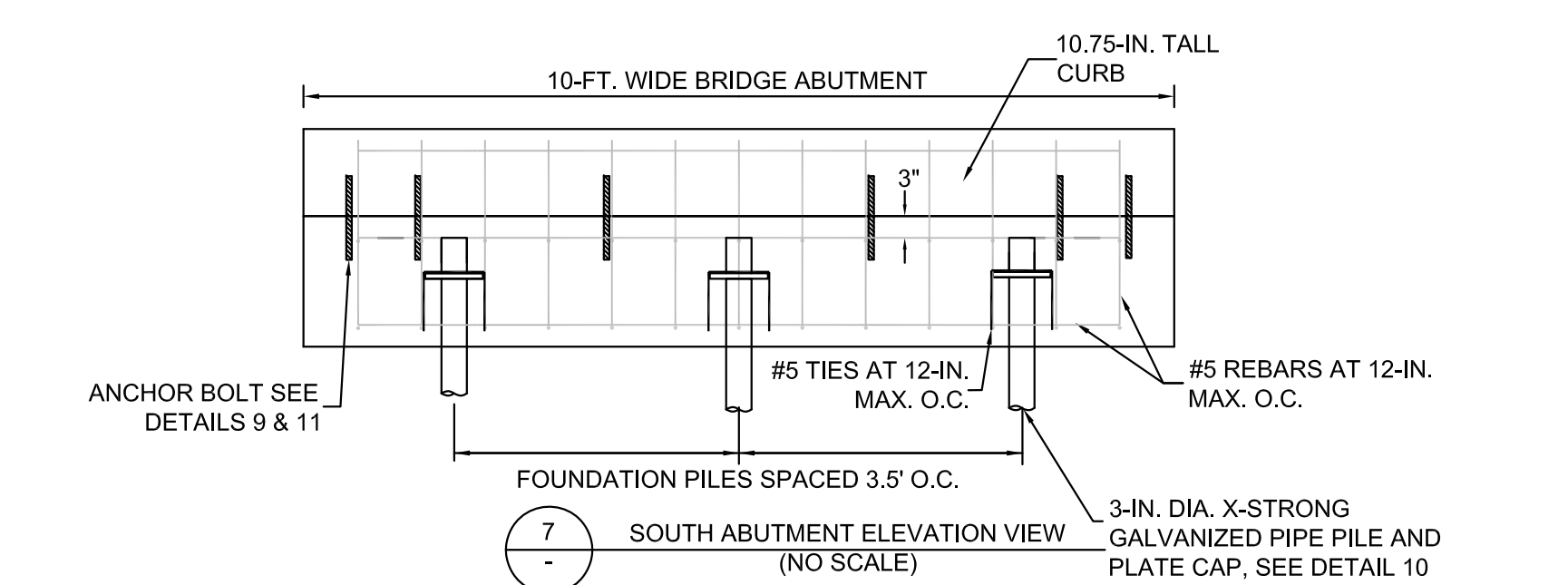
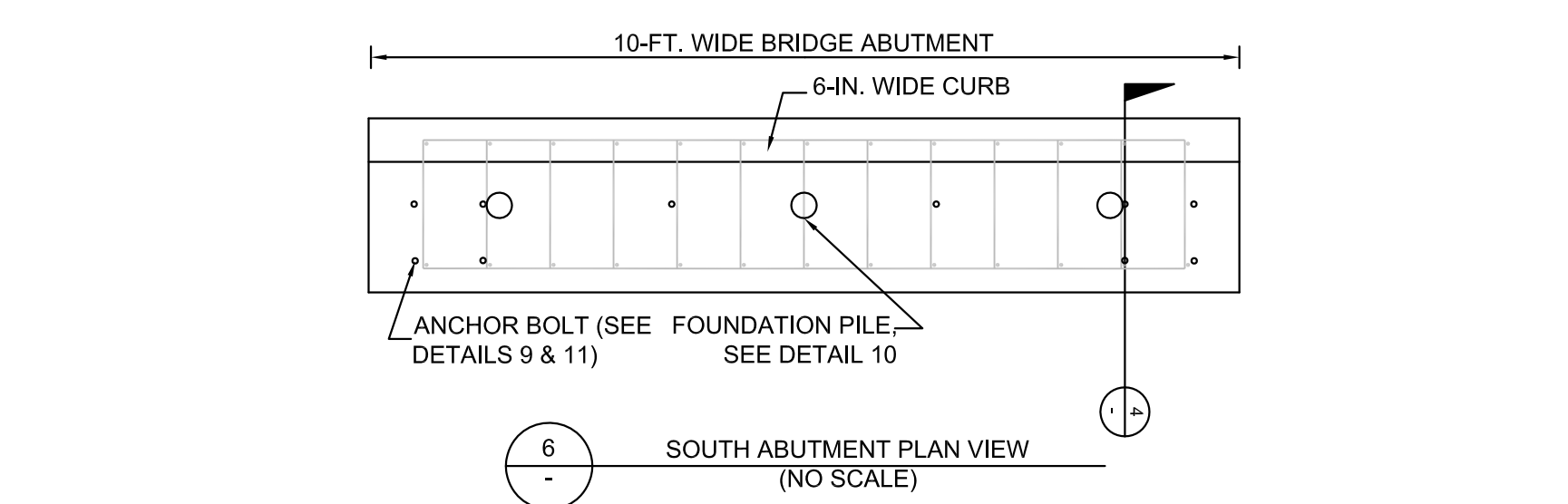
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L-5

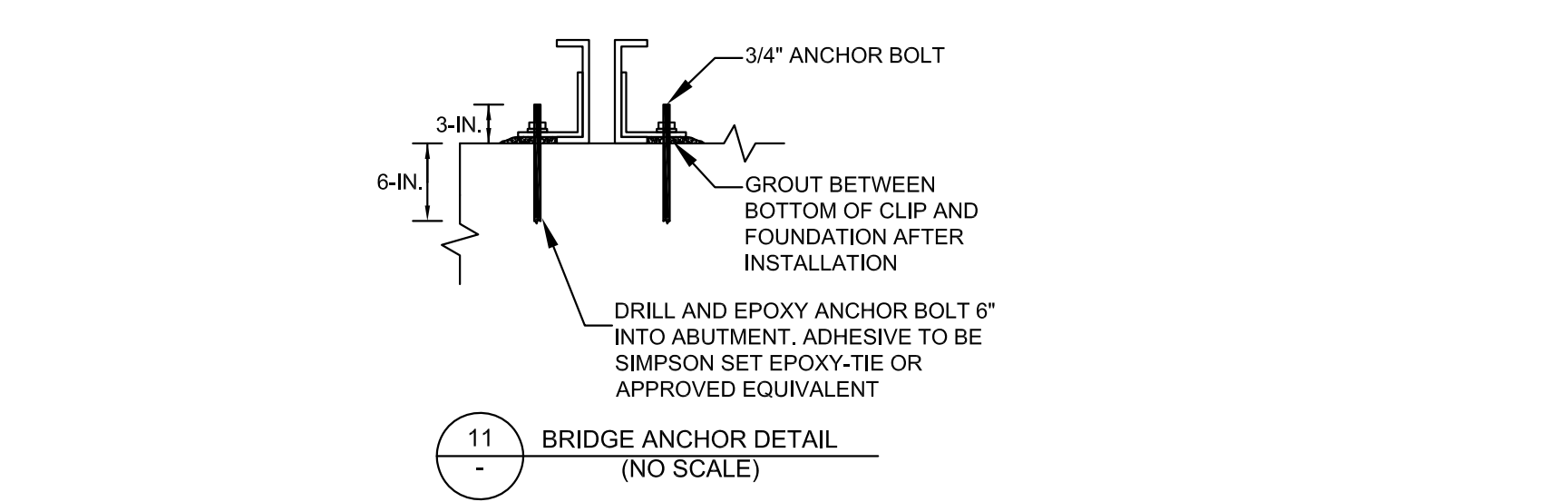
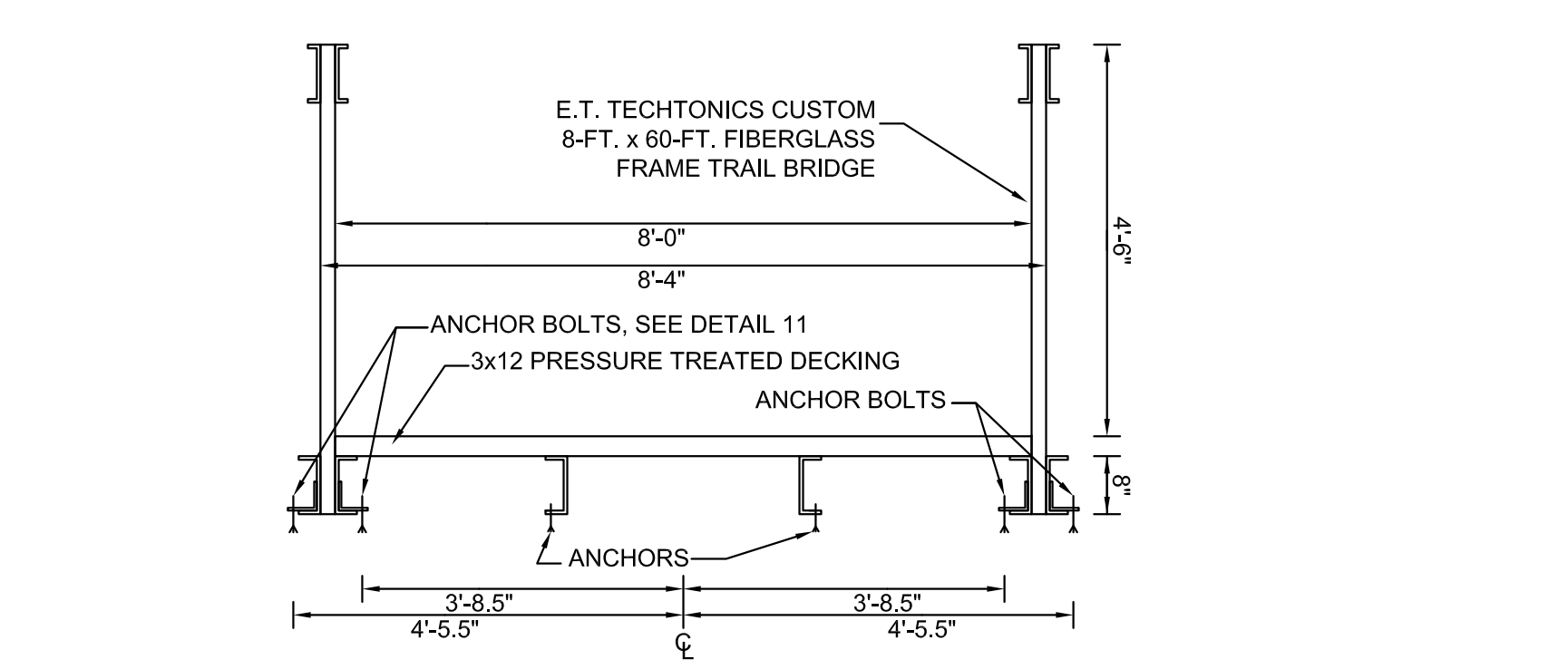


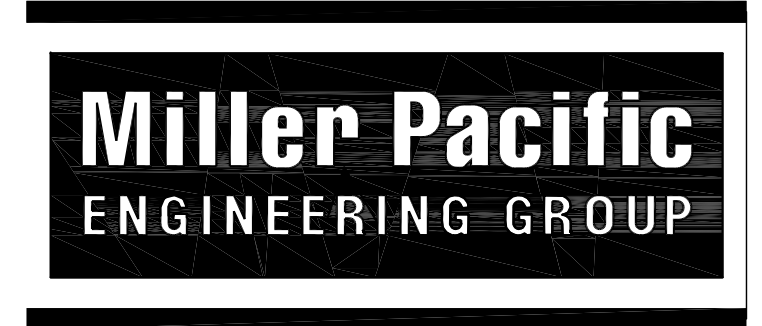
- PIPE PILE NOTES:**
- Piles shall be 3.5 inch O.D. and 2.9 inch I.D. 36 ksi steel pipe piles conforming to ASTM A501.
 - All materials for pipe piles, including pipe, couplers, and caps shall be hot-dip galvanized. Repair welds and any removal of galvanization with paint-on zinc rich epoxy.
 - All pipe piles shall be driven to the minimum depths specified on the plans and driven at a rate to provide at least 20 kips of vertical capacity.
 - The pile Subcontractor shall supply shop drawings describing the details of the pile system and installation criteria for review by the Engineer. The Subcontractor shall not order or fabricate any material until the shop drawings are reviewed and accepted.
 - Pipe piles to be installed per the inspection and direction of the Geotechnical Engineer

- GENERAL NOTE:**
- See specifications sections 90, 109, and 111 for rebar and concrete strength guidelines.

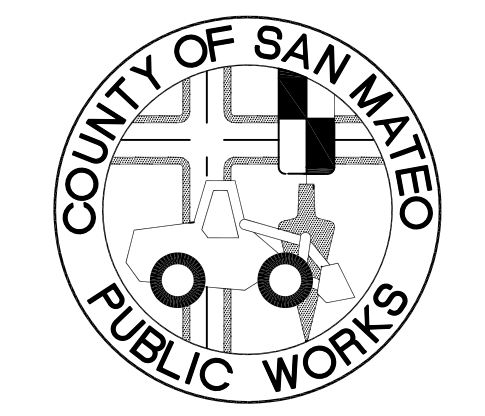


NOTE: 1) ALL FILL SOILS TO BE PLACED IN 4-IN. THICK LIFTS AND COMPACTED WITH STATIC SMOOTH DRUM ROLLERS





**FITZGERALD
MARINE RESERVE**
COASTAL TRAIL
MOSS BEACH, CALIFORNIA



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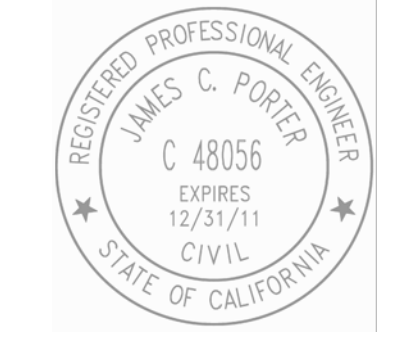
DATE: _____

DAVE HOLLAND, DIRECTOR OF SAN MATEO
COUNTY PARKS DEPARTMENT

APPROVED:

DATE: _____

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
RCE # 48056 / EXPIRES 12-31-2011



11/23/10 100% DRAFT CONSTRUCTION SET

Date	Issues And Revisions	No.

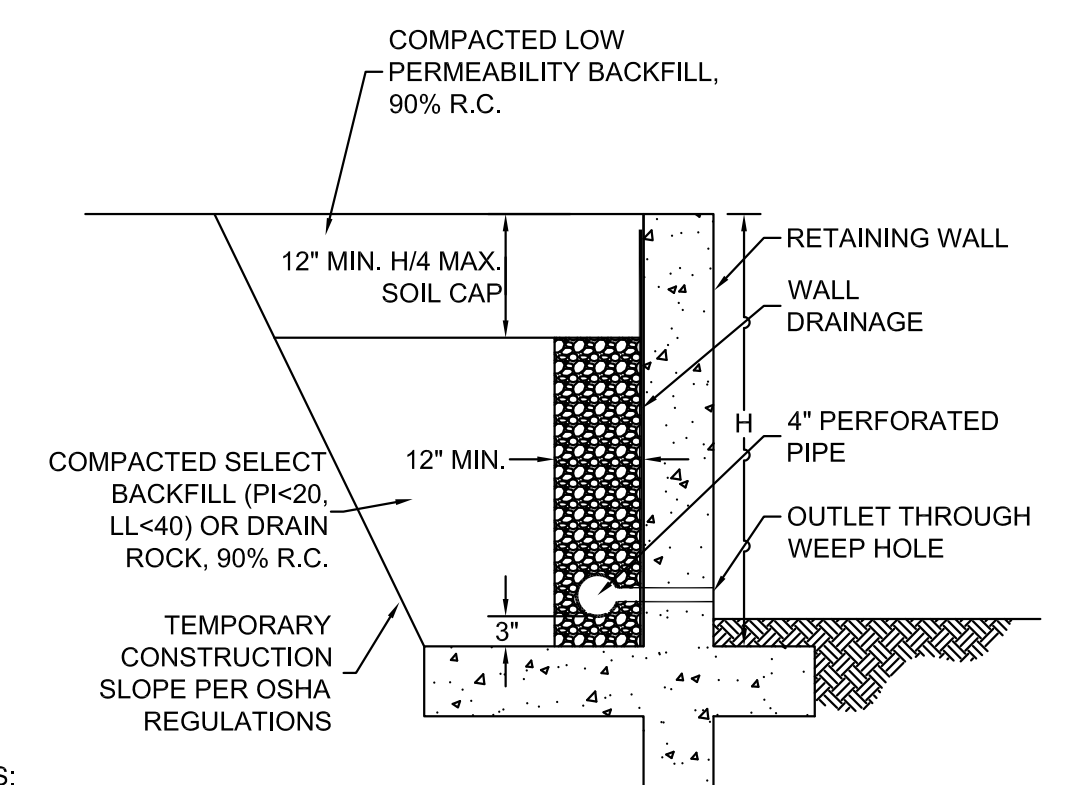
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WRA PROJECT #18054
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SCALE: AS INDICATED

**STRUCTURAL
DETAILS**

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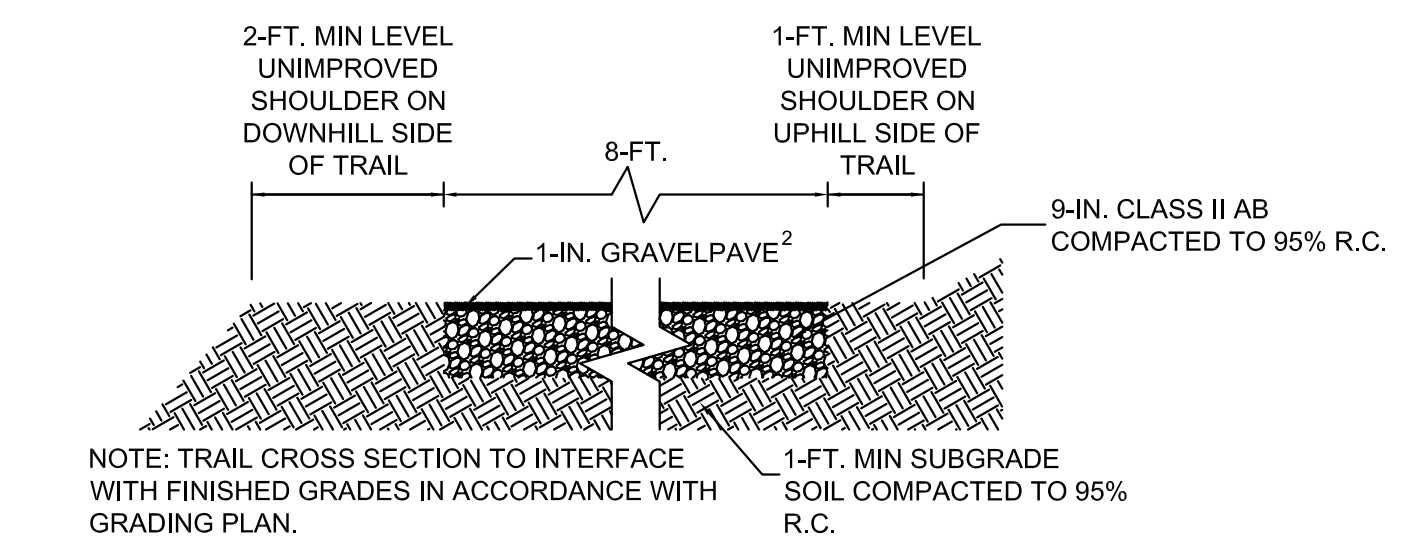
L-6



NOTES:

1. Wall drainage should consist of clean, free draining 3/4 inch crushed rock (Class 1B Permeable Material) wrapped in filter fabric (Mirafi 140N or equivalent) or Class II Permeable Material. Alternatively, a pre-fabricated drainage panel (Miradrain G100N or equivalent) installed per the manufacturers recommendations, may be used in lieu of drain rock and fabric.
2. Perforated pipe shall be SCH 40 or SDR 35. Place pipe perforations down and sloped at 1% to a gravity outlet. Alternatively, drainage can be outlet through 3" diameter weep holes spaced approximately 20' apart.
3. Clean outs should be installed at the upslope end and at significant direction changes of the perforated pipe. Additionally, all angled connectors shall be long bend sweep connections.
4. During compaction, the contractor should use appropriate methods (such as temporary bracing and/or light compaction equipment) to avoid over stressing the walls. Walls shall be completely backfilled prior to construction in front of or above the retaining wall.
5. All work and materials shall conform with Section 68 of the latest edition of the State of California Standard Specifications (Caltrans).

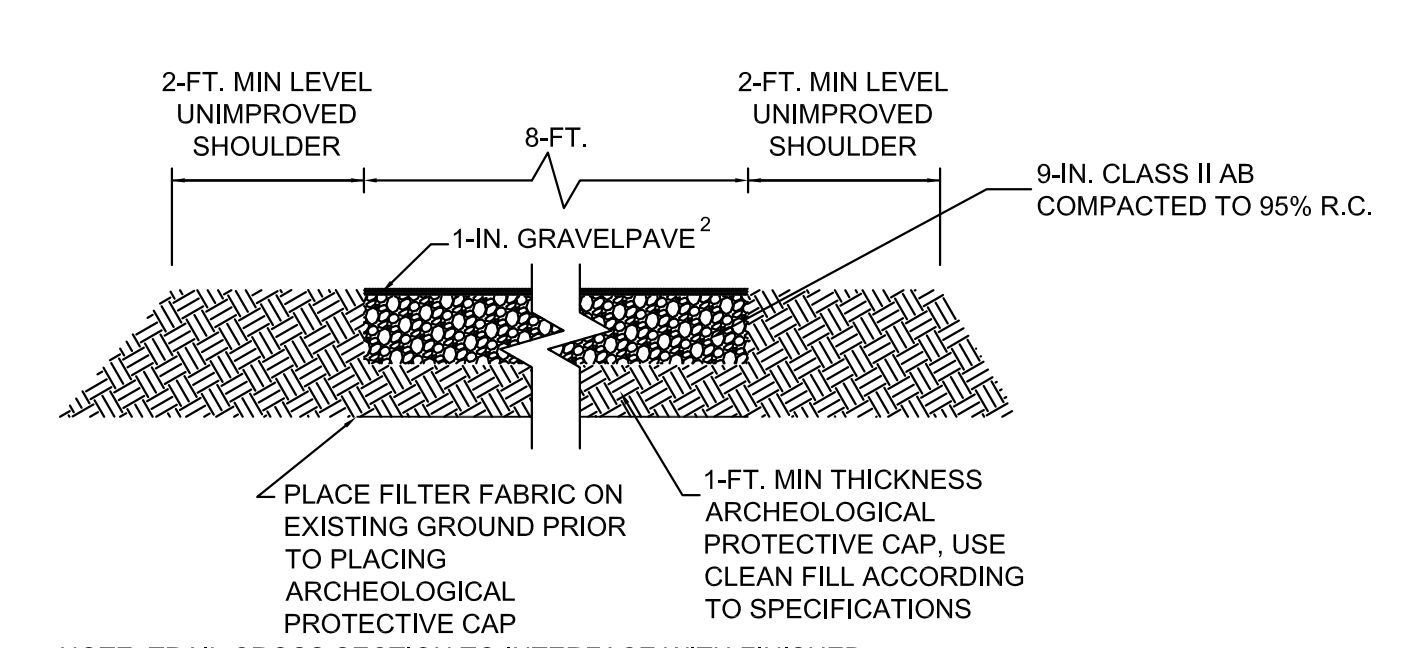
1 - STANDARD RETAINING WALL BACKDRAIN (NO SCALE)



2 - COAST TRAIL DETAIL (NO SCALE)

GRAVELPAVE² NOTES:

1. GRAVELPAVE RINGS AND INFILL TO BE TERRACOTTA BROWN COLOR.
2. INFILL SHALL CONSIST OF POORLY-GRADED ANGULAR GRAVEL, 3/8" DIAMETER MAX.; COLOR AND TYPE TO BE SELECTED BY COUNTY OF SAN MATEO.
3. ALL HARD SURFACE CONSTRUCTION (ASPHALT PAVING OR CONCRETE WALKS) ADJACENT TO GRAVELPAVE AREAS MUST BE COMPLETED PRIOR TO INTALLATION OF GRAVELPAVE. REFER TO MANUFACTURER'S TECHNICAL SPECIFICATIONS FOR ADDITIONAL INSTALLATION NOTES.
- 4.

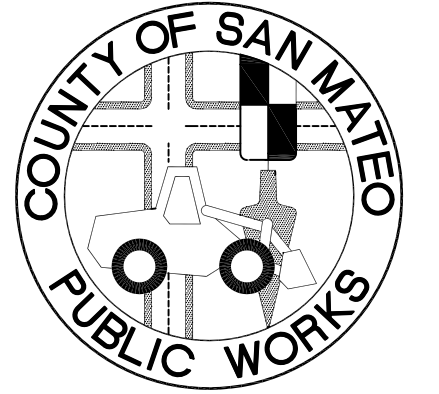


NOTE: TRAIL CROSS SECTION TO INTERFACE WITH FINISHED GRADES IN ACCORDANCE WITH GRADING PLAN.

3 - COAST TRAIL WITHIN ARCHEOLOGICAL SITE DETAIL (NO SCALE)

**FITZGERALD
 MARINE RESERVE**

COASTAL TRAIL
 MOSS BEACH, CALIFORNIA



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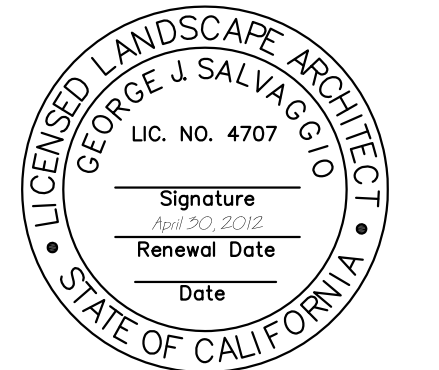
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DAVE HOLLAND, DIRECTOR OF SAN MATEO
 COUNTY PARKS DEPARTMENT

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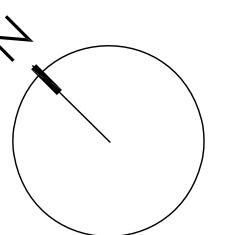
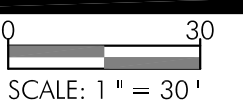
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11/23/10 100% DRAFT CONSTRUCTION SET

Date Issues And Revisions No.

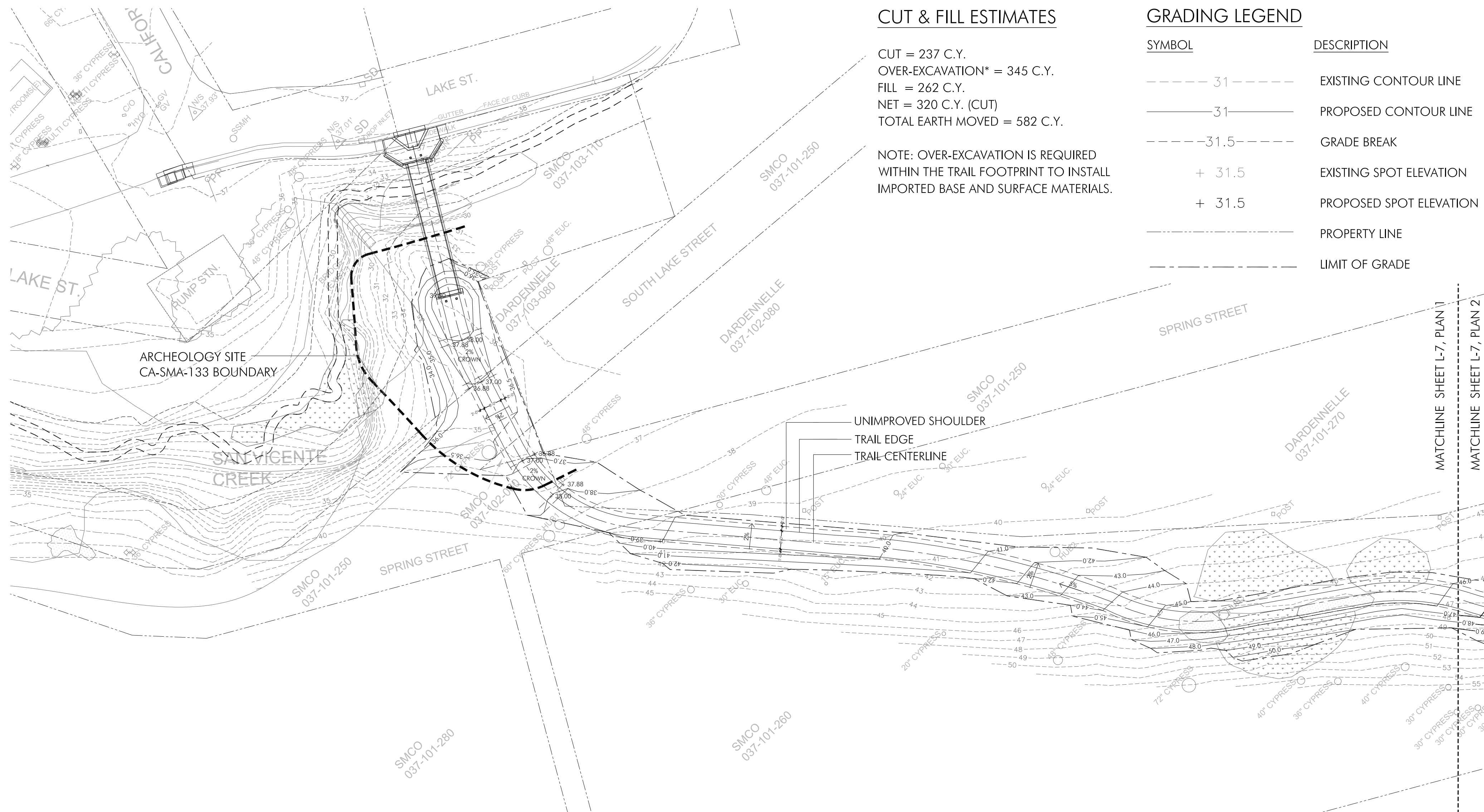
FILE NO. 1/4873
 WRA PROJECT # 18054
 DRAWN BY: MCB
 CHECKED BY: GJS
 ORIGINAL DRAWING SIZE: 24 X 36



GRADING PLAN

Sheet

L-7



CUT & FILL ESTIMATES

CUT = 237 C.Y.
 OVER-EXCAVATION* = 345 C.Y.
 FILL = 262 C.Y.
 NET = 320 C.Y. (CUT)
 TOTAL EARTH MOVED = 582 C.Y.

NOTE: OVER-EXCAVATION IS REQUIRED
 WITHIN THE TRAIL FOOTPRINT TO INSTALL
 IMPORTED BASE AND SURFACE MATERIALS.

GRADING LEGEND

SYMBOL	DESCRIPTION
---	EXISTING CONTOUR LINE
—	PROPOSED CONTOUR LINE
---	GRADE BREAK
+ 31.5	EXISTING SPOT ELEVATION
+ 31.5	PROPOSED SPOT ELEVATION
---	PROPERTY LINE
---	LIMIT OF GRADE

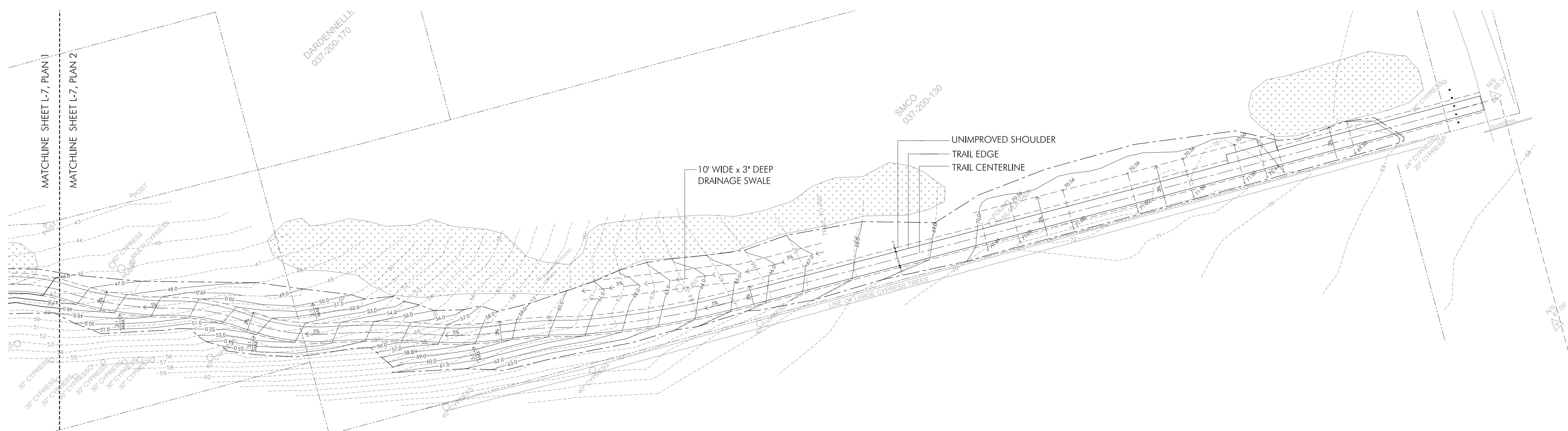
SYMBOL	DESCRIPTION
---	CENTER LINE
←	SWALE CENTERLINE
← 3:1 MAX ←	SLOPE INDICATION

GRADING NOTES

1. THE GRADING PLANS INDICATE FINISHED GRADE ELEVATIONS.
2. SEE SHEET L-3 FOR LOCATIONS OF STAGING AND STOCKPILE AREA.
3. NO GRADING SHALL OCCUR WITHIN THE DRIPLINE OF EXISTING TREES TO REMAIN. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING TREES.
4. ORANGE CONSTRUCTION FENCE SHALL BE INSTALLED AND MAINTAINED AT THE LOCATIONS SHOWN ON THE DRAWINGS IN ORDER TO PREVENT DISTURBANCE TO THE EXISTING BIOLOGICAL COMMUNITIES. CONSTRUCTION FENCING SHALL BE 4' HIGH AND SECURED WITH METAL T-POSTS AT 6' ON-CENTER MAXIMUM, AND SHALL BE OFFSET 2' MAXIMUM FROM THE LIMIT OF GRADE.
5. OUTSIDE OF THE ARCHEOLOGY SITE BOUNDARY THE TRAIL SHALL BE GRADED WITH A CONTINUOUS 2% CROSS SLOPE ACROSS TRAIL AND UNIMPROVED SHOULDERS, AS INDICATED ON PLANS. WITHIN THE ARCHEOLOGY SITE BOUNDARY THE TRAIL SHALL BE GRADED WITH A CONTINUOUS 2% CROWN ACROSS TRAIL AND UNIMPROVED SHOULDERS, AS INDICATED ON PLANS.
6. TOPSOIL SHALL BE EXCAVATED TO A DEPTH OF EIGHT (8) INCHES FROM THE AREAS WITHIN THE LIMIT OF GRADING AND TRANSPORTED TO THE STOCKPILE AREA DESIGNATED ON THE PLANS. ANY EXCESS TOPSOIL GENERATED WITHIN THE TRAIL FOOTPRINT SHALL BE USED TO CONFORM TO FINISH GRADE AND INCREASE THE DEPTH OF TOPSOIL WITHIN ADJACENT LANDSCAPE AREAS.

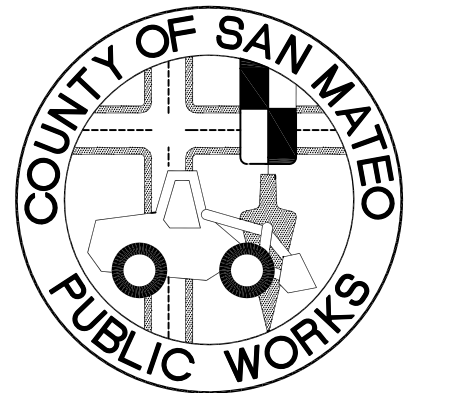
THE VOLUME OF MATERIAL THAT CAN BE HAULED BY A SINGLE TRUCK SHALL BE LIMITED TO THE VOLUME THAT CAN BE FULLY COVERED AND PROTECTED DURING TRANSPORT. IF HAULING OPERATIONS RESULT IN ANY RELEASE OF MATERIAL ONTO THE ROAD SURFACE, THE CONTRACTOR SHALL CLEAN THE ROAD SURFACE IMMEDIATELY. THE CONTRACTOR SHALL PREPARE PLANS FOR THE STOCKPILE AREAS FOR APPROVAL BY THE COUNTY, INCLUDING THE CONSTRUCTION OF A PERIMETER FENCE, CONSTRUCTION ENTRANCE, AND ADEQUATE EROSION CONTROL MEASURES TO MINIMIZE SOIL EROSION AFTER OCTOBER 30TH.

1 GRADING PLAN
 SCALE 1" = 30'



2 GRADING PLAN
 SCALE 1" = 30'

**FITZGERALD
MARINE RESERVE**
COASTAL TRAIL
MOSS BEACH, CALIFORNIA



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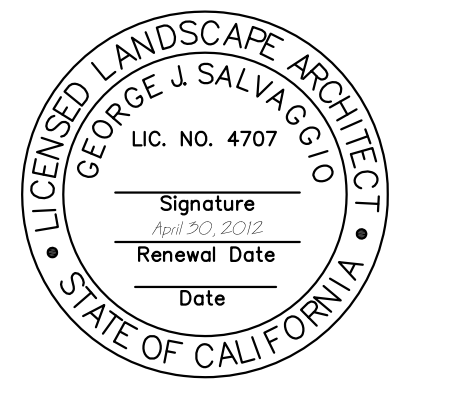
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DAVE HOLLAND, DIRECTOR OF SAN MATEO COUNTY PARKS DEPARTMENT

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DATE: _____

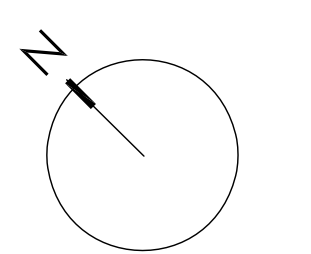
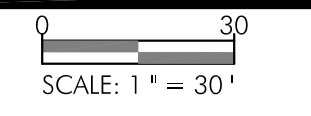
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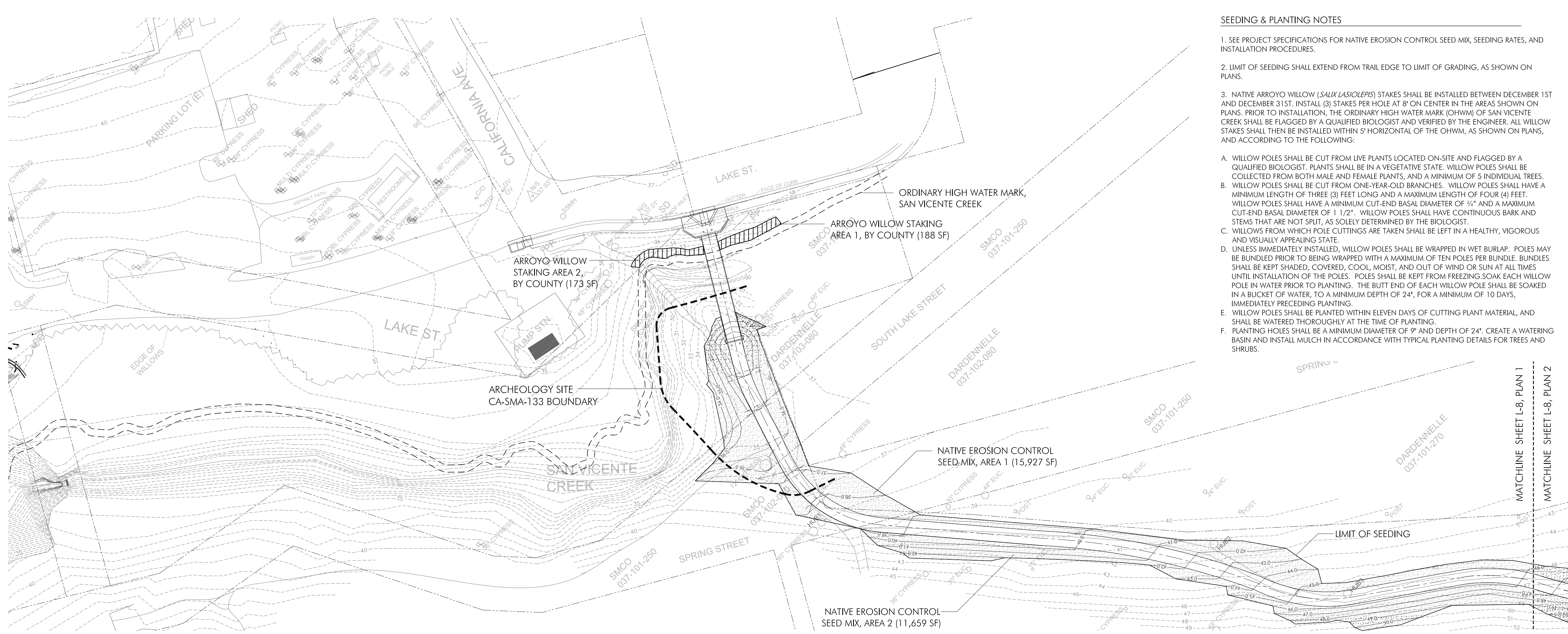
**SEEDING &
PLANTING PLAN**

Sheet

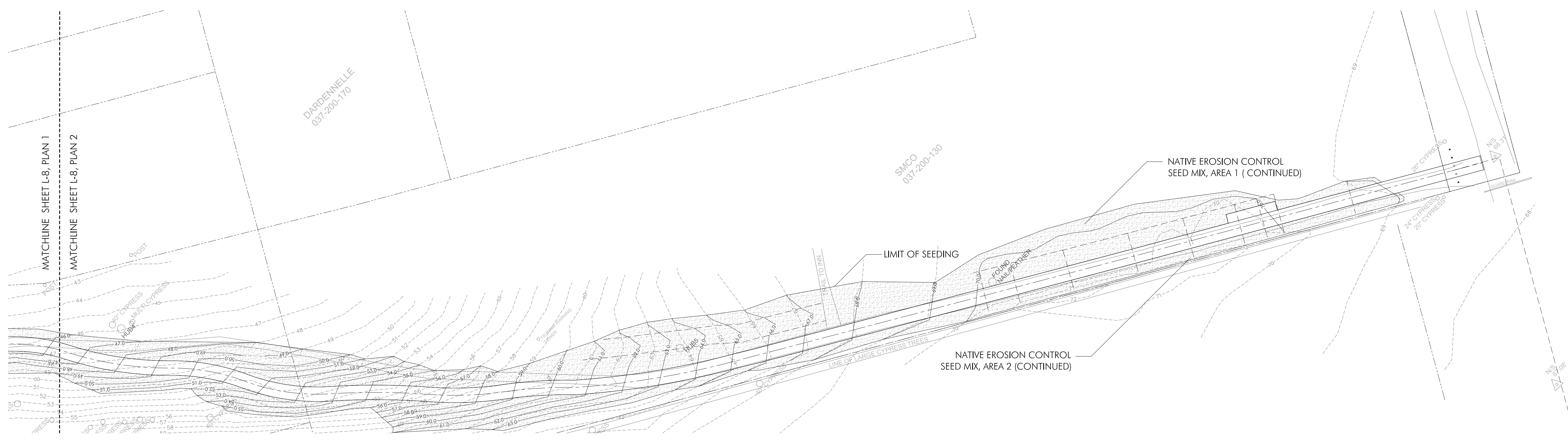
L-8

SEEDING & PLANTING NOTES

- SEE PROJECT SPECIFICATIONS FOR NATIVE EROSION CONTROL SEED MIX, SEEDING RATES, AND INSTALLATION PROCEDURES.
- LIMIT OF SEEDING SHALL EXTEND FROM TRAIL EDGE TO LIMIT OF GRADING, AS SHOWN ON PLANS.
- NATIVE ARROYO WILLOW (*SALIX LASIOLEPIS*) STAKES SHALL BE INSTALLED BETWEEN DECEMBER 1ST AND DECEMBER 31ST. INSTALL (3) STAKES PER HOLE AT 8' ON CENTER IN THE AREAS SHOWN ON PLANS. PRIOR TO INSTALLATION, THE ORDINARY HIGH WATER MARK (OHWM) OF SAN VICENTE CREEK SHALL BE FLAGGED BY A QUALIFIED BIOLOGIST AND VERIFIED BY THE ENGINEER. ALL WILLOW STAKES SHALL THEN BE INSTALLED WITHIN 5' HORIZONTAL OF THE OHWM, AS SHOWN ON PLANS, AND ACCORDING TO THE FOLLOWING:
 - WILLOW POLES SHALL BE CUT FROM LIVE PLANTS LOCATED ON-SITE AND FLAGGED BY A QUALIFIED BIOLOGIST. PLANTS SHALL BE IN A VEGETATIVE STATE. WILLOW POLES SHALL BE COLLECTED FROM BOTH MALE AND FEMALE PLANTS, AND A MINIMUM OF 5 INDIVIDUAL TREES.
 - WILLOW POLES SHALL BE CUT FROM ONE-YEAR-OLD BRANCHES. WILLOW POLES SHALL HAVE A MINIMUM LENGTH OF THREE (3) FEET LONG AND A MAXIMUM LENGTH OF FOUR (4) FEET. WILLOW POLES SHALL HAVE A MINIMUM CUT-END BASAL DIAMETER OF 3/4" AND A MAXIMUM CUT-END BASAL DIAMETER OF 1 1/2". WILLOW POLES SHALL HAVE CONTINUOUS BARK AND STEMS THAT ARE NOT SPLIT, AS SOLELY DETERMINED BY THE BIOLOGIST.
 - WILLOWS FROM WHICH POLE CUTTINGS ARE TAKEN SHALL BE LEFT IN A HEALTHY, VIGOROUS AND VISUALLY APPEALING STATE.
 - UNLESS IMMEDIATELY INSTALLED, WILLOW POLES SHALL BE WRAPPED IN WET BURLAP. POLES MAY BE BUNDLED PRIOR TO BEING WRAPPED WITH A MAXIMUM OF TEN POLES PER BUNDLE. BUNDLES SHALL BE KEPT SHADED, COVERED, COOL, MOIST, AND OUT OF WIND OR SUN AT ALL TIMES UNTIL INSTALLATION OF THE POLES. POLES SHALL BE KEPT FROM FREEZING. SOAK EACH WILLOW POLE IN WATER PRIOR TO PLANTING. THE BUTT END OF EACH WILLOW POLE SHALL BE SOAKED IN A BUCKET OF WATER, TO A MINIMUM DEPTH OF 24", FOR A MINIMUM OF 10 DAYS, IMMEDIATELY PRECEDING PLANTING.
 - WILLOW POLES SHALL BE PLANTED WITHIN ELEVEN DAYS OF CUTTING PLANT MATERIAL, AND SHALL BE WATERED THOROUGHLY AT THE TIME OF PLANTING.
 - PLANTING HOLES SHALL BE A MINIMUM DIAMETER OF 9" AND DEPTH OF 24". CREATE A WATERING BASIN AND INSTALL MULCH IN ACCORDANCE WITH TYPICAL PLANTING DETAILS FOR TREES AND SHRUBS.



1 SEEDING PLAN
SCALE 1" = 30'



2 SEEDING PLAN
SCALE 1" = 30'