



PUBLIC WORKS DEPARTMENT
PACIFIC BEACH ROUNDABOUT
ENHANCEMENTS

CITY PROJECT NO. c402507

Pacific Avenue and Beach Street

PROJECT DIRECTORY

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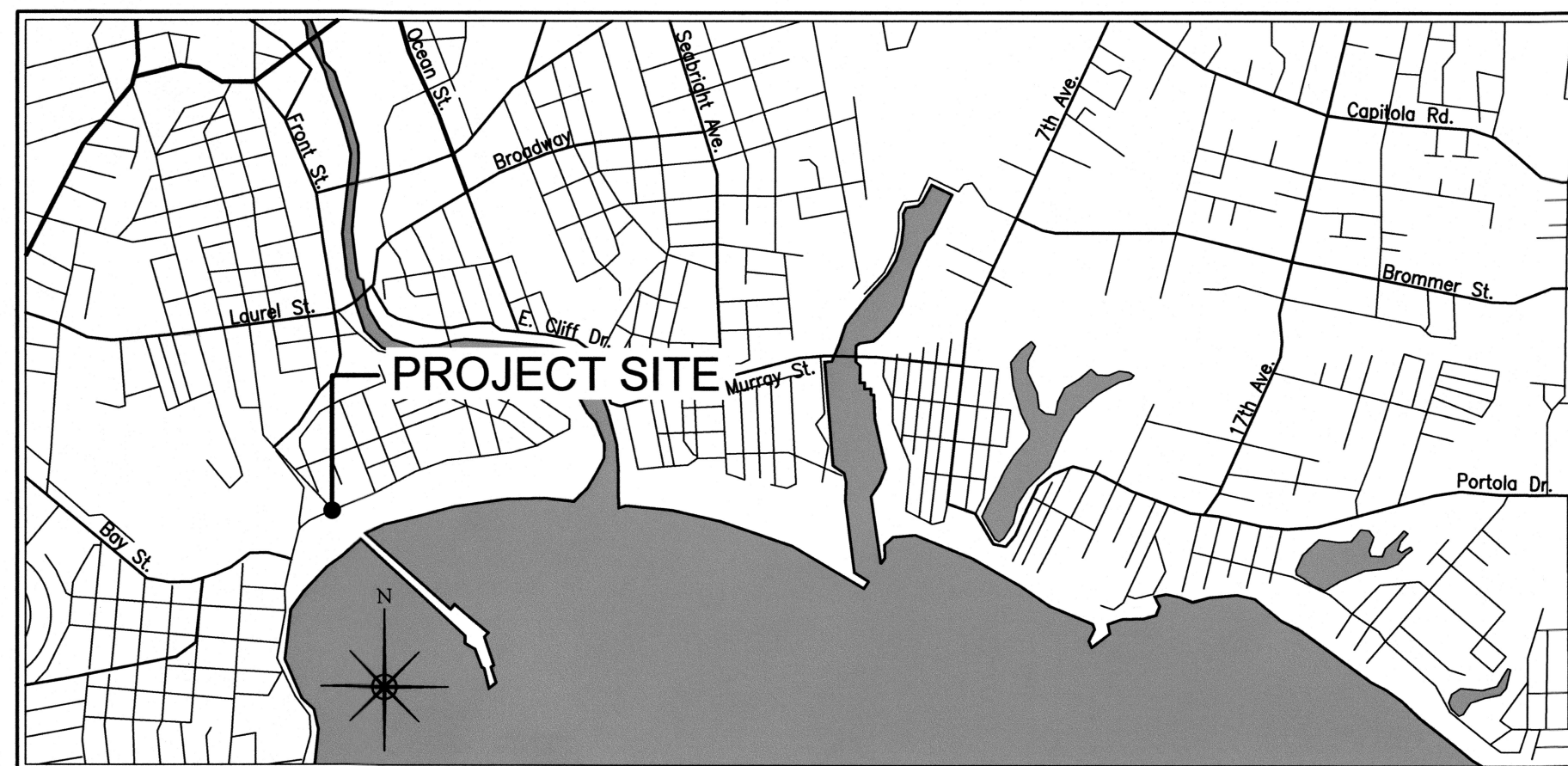
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VICINITY MAP



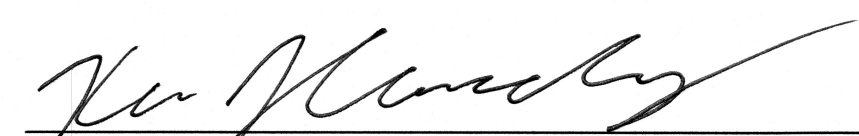
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SHEET INDEX

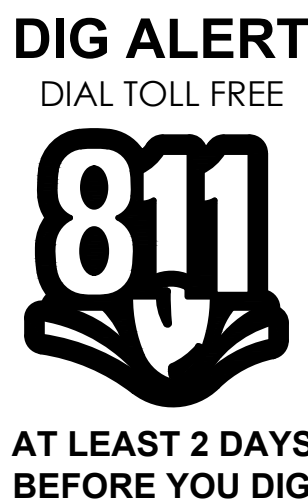
TS-1.01	TITLE SHEET
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DM-1.01	DEMOLITION PLANS
EC-1.00-1.01	EROSION CONTROL NOTES AND PLANS
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BID-READY CONSTRUCTION DOCUMENTS SUBMITTAL

APPROVED BY:


ASSISTANT DIRECTOR / CITY ENGINEER
CITY OF SANTA CRUZ
R.C.E. NO. CE 74847

REFERENCES	DATE	02/24/2025	SCALE	AS SHOWN
FIELD BOOK:	DRAWN			TS-1.01
DRAWING #:	DESIGN			VAULT NO.
	CHECKED			7170



AGENCY / UTILITY CONTACTS

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ARBORIST - LESLIE KEEDY
SEWER AND STORM MAINTENANCE - ROME NORMAN
WATER DEPARTMENT - JASON SEGAL
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AT&T - REY MARTINEZ
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CONTRACTOR TO COORDINATE WORK WITH AFFECTED RESIDENTS AND BUSINESSES.

1. COWELL'S BEACH SURF SHOP
2. BEACH BOUTIQUE AT 109 BEACH ST
3. BEACH LIQUORS AT 111 BEACH ST
4. RESIDENTS AT 24 FRONT ST
5. RESIDENTS AT 38 FRONT ST

CONTRACTOR MUST CHECK ROARING CAMP BEACH TRAIN SCHEDULE BEFORE COMMENCING CONSTRUCTION.

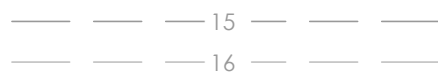
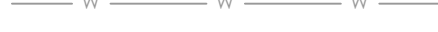
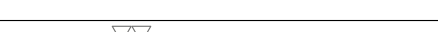
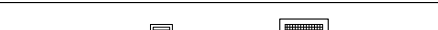
GENERAL NOTES

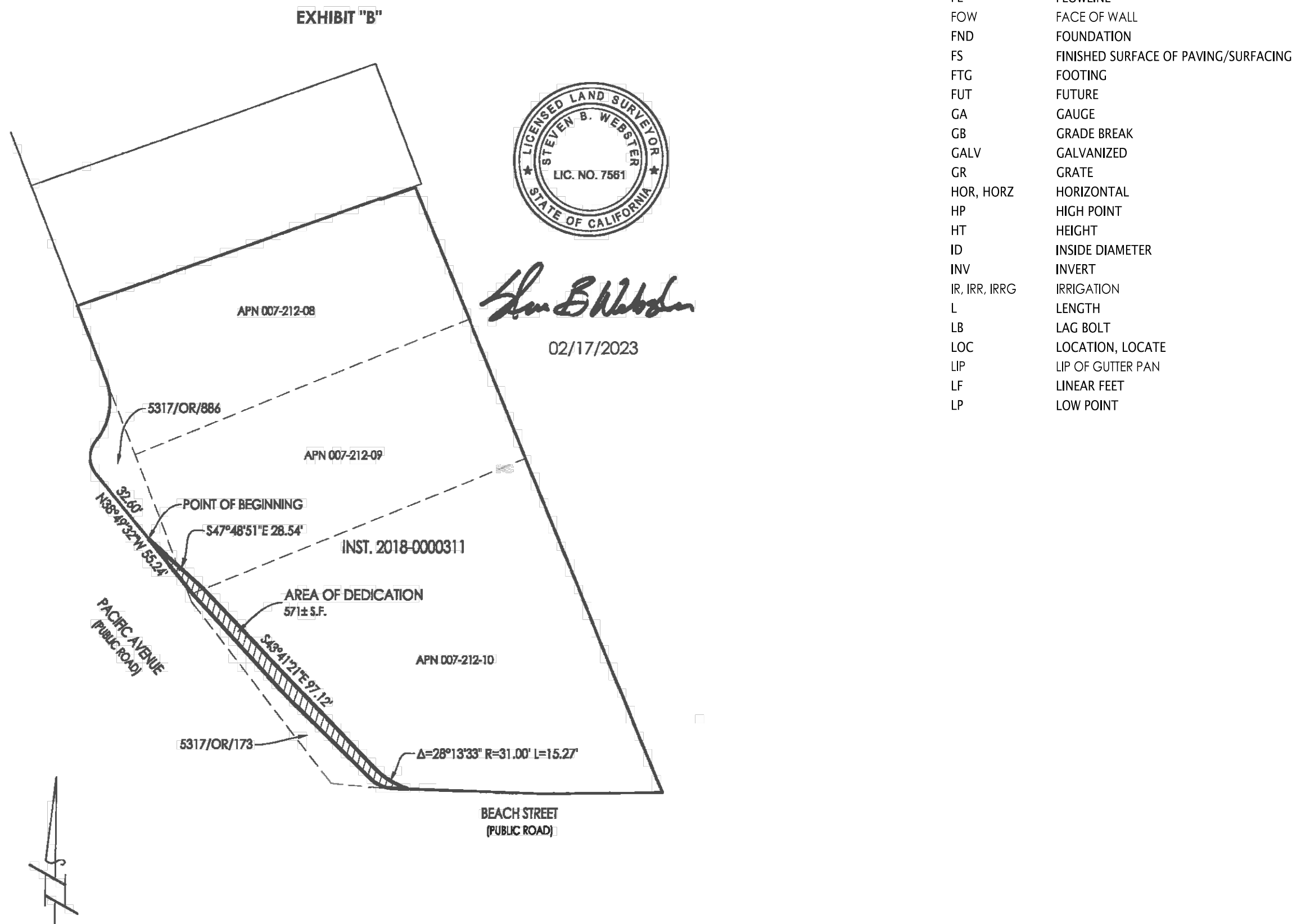
1. PRIOR TO START OF CONSTRUCTION AND AS NECESSARY THROUGHOUT THE PROGRESS OF THE WORK, CONTACT THE UNDERGROUND SERVICE ALERT WITH MINIMUM 48 HOURS NOTICE, AND HAVE ALL UNDERGROUND UTILITIES AND FACILITIES MARKED IN THE FIELD. ALSO, PRIOR TO EXCAVATION, THE CONTRACTOR SHALL VERIFY, BY POTHOLING THE TYPES, LOCATIONS, SIZES AND/OR DEPTH OF EXISTING UTILITIES WITHIN THE WORK AREA. IN THE EVENT EXISTING UTILITIES ARE DISCOVERED TO BE IN CONFLICT WITH THE WORK REQUIRED OF THE CONTRACT DOCUMENTS, IMMEDIATELY NOTIFY THE AUTHORIZED REPRESENTATIVE AND THE UTILITY OWNER IN THE MOST EXPEDITIOUS MEANS AVAILABLE AND LATER CONFIRM IN WRITING. THE CONTRACTOR SHALL DETERMINE EXACT LOCATIONS OF ALL UTILITIES AND FACILITIES IMPLEMENT APPROPRIATE AND EFFECTIVE MEASURES TO PROTECT THEM. **NOTE: RAILROAD IS NOT PART OF USA MARKING.**
2. PROTECT ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS ON THE PROJECT SITE. RECORD THE LOCATION OF ALL MONUMENTS AND OTHER SURVEY MARKERS PRIOR TO THE START OF WORK. ALL SUCH MONUMENTS OR MARKERS DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY A LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.
3. REMOVAL AND REPLACEMENT LIMITS OF ANY EXISTING FEATURE SHOWN ON THE DRAWINGS ARE FOR GENERAL REFERENCE ONLY. ACTUAL LIMITS SHALL BE AS REQUIRED BY THE NEW WORK AND SHALL BE VERIFIED IN THE FIELD WITH THE CITY.
4. CONTRACTOR SHALL COORDINATE DIRECTLY WITH SANTA CRUZ COUNTY REGIONAL TRANSPORTATION COMMISSION (SCCRCT) AND ROARING CAMP PRIOR TO PERFORMING ANY WORK WITHIN THE RAIL CORRIDOR, INCLUDING MARKING EXISTING RAILROAD UTILITIES.
5. EXISTING UTILITY DATA IS DEPICTED BASED ON VARYING COMBINATIONS OF SURFACE AND SUBSURFACE INVESTIGATIONS PERFORMED FOR THIS PROJECT, EQUIVALENT TO LEVEL B AND LEVEL C AS DEFINED IN CI/ASCE 38-02 - STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA.

CONSTRUCTION NOTES

1. CONSTRUCTION (INCLUDING BUT NOT LIMITED TO CONSTRUCTION ACTIVITIES, AND MATERIALS AND/OR EQUIPMENT STORAGE) IS PROHIBITED OUTSIDE OF THE DEFINED CONSTRUCTION, STAGING, AND STORAGE AREAS.
2. THE CONSTRUCTION SITE SHALL MAINTAIN GOOD CONSTRUCTION SITE HOUSEKEEPING CONTROLS AND PROCEDURES (E.G., CLEAN UP ALL LEAKS, DRIPS, AND OTHER SPILLS IMMEDIATELY; KEEP MATERIALS COVERED AND OUT OF THE RAIN (INCLUDING COVERING EXPOSED PILES OF SOIL AND WASTES); DISPOSE OF ALL WASTES PROPERLY, PLACE TRASH RECEPTACLES ON SITE FOR THAT PURPOSE, AND COVER OPEN TRASH RECEPTACLES DURING WET WEATHER; REMOVE ALL CONSTRUCTION DEBRIS FROM THE SITE; ETC.).
3. ALL EROSION AND SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AS WELL AS AT THE END OF EACH WORKDAY.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	CITY RIGHT OF WAY
	EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR
	EXISTING FENCE
	EXISTING METAL RAILING
	EXISTING SANITARY SEWER
	EXISTING STORM DRAIN
	EXISTING GAS
	EXISTING WATER
	EXISTING ELECTRICAL
	EXISTING COM
	EXISTING SIGN
	EXISTING STREET LIGHT
	EXISTING RAILROAD GATE
	EXISTING RAILROAD SIGNAL MAST
	SAWCUT LINE, JOIN EXISTING PAVING
	RETAINING WALL WITH RAILING
	DRAINAGE INFRASTRUCTURE
	DECORATIVE STREET LIGHT



ABBREVIATIONS

ABV	AGGREGATE BASE OR ANCHOR BOLT	MAS	MASONRY
ABV	ABOVE	MAX	MAXIMUM
AC	ASPHALTIC CONCRETE	MFR	MANUFACTURE(R)
ADJ	ADJACENT	MIN	MINIMUM
ALT	ALTERNATE	MISC	MISCELLANEOUS
APPROX/APPX	APPROXIMATE	ML	MAINLINE
BC/BOC	BACK OF CURB	(N)	NEW
BEL	BELOW	NIC	NOT IN CONTRACT
BF / BOF	BOTTOM OF FOOTING	NO	NUMBER
BLDG	BUILDING	NOM	NOMINAL
BLK	BLOCK	NTS	NOT TO SCALE
BOT	BOTTOM	OC	ON CENTER
BOW	BACK OF WALK	OD	OUTSIDE DIAMETER
BR	BOTTOM OF RAMP	OPT	OPTIONAL
CB	CATCH BASIN	PA	PLANTING AREA
CF	CUBIC FOOT	PC	POINT OF CURVE
CIP	CAST IN PLACE	PERF	PERFORATE (D)
C/L	CENTERLINE	PERP	PERPENDICULAR
CL	CENTERLINE	PL	PROPERTY LINE
CLR	CLEAR	POB	POINT OF BEGINNING
CMU	CONCRETE MASONRY UNIT	POC	POINT OF CONNECTION
CO	CLEAN OUT	PRC	POINT OF REVERSE CURVE
COL	COLUMN	PROP	PROPOSED
CONC	CONCRETE	PT	POINT, POINT OF TANGENCY
CONST	CONSTRUCTION	PVMT/PVNG	PAVEMENT OR PAVING
CONT	CONTINUOUS, CONTINUE	R, RAD	RADIUS
CP	CENTER POINT	REBAR	REINFORCING BAR
CR	CURB RETURN	REF	REFERENCE
CTR	CENTER	REM	REMOVE
DET	DETAIL	REQ'D	REQUIRED
DI	DRAIN INLET	REV	REVISION(S), REVISED
DIA	DIAMETER	ROW	RIGHT OF WAY
DIM	DIMENSION	S	SLOPE
DS	DOWN SPOUT	SCCRIC	SANTA CRUZ COUNTY REGIONAL
DWG	DRAWING		TRANSPORTATION COMMISSION
EA	EACH	SCH	SCHEDULE
ELECT	ELECTRICAL	SD	STORM DRAIN
ELEV	ELEVATION	SF	SQUARE FEET
ENCL	ENCLOSURE	SHT	SHEET
EP	EDGE OF PAVEMENT	SIM	SIMILAR
EQ	EQUAL	SL	SLOPE
EX	EXISTING	SPEC	SPECIFICATION(S)
EXIST	EXISTING	SQ	SQUARE
(E)	EXISTING	SS	SANITARY SEWER
FC / FOC	FRONT OF CURB	S/S	STAINLESS STEEL
FFE	FINISHED FLOOR ELEVATION	ST	STREET
FG	FINISHED GRADE	STA	STATION
FL	FLOWLINE	STD	STANDARD
FOW	FACE OF WALL	STL	STEEL
FND	FOUNDATION	STRUC	STRUCTURE/ STRUCTURAL
FS	FINISHED SURFACE OF PAVING/SURFACING	SURF	SURFACE
FTG	FOOTING	SWCL	SIDEWALK CENTERLINE
FUT	FUTURE	SYS	SYSTEM
GA	GAUGE	TBC	TOP BACK OF CURB
GB	GRADE BREAK	TC	TOP OF CURB
CALV	GALVANIZED	TF / TOF	TOP OF FOOTING
CR	GRATE	TR	TOP OF RAMP
HOR, HORZ	HORIZONTAL	TW	TOP OF WALL
HP	HIGH POINT	Typ	TYPICAL
HT	HEIGHT	UON	UNLESS OTHERWISE NOTED
ID	INSIDE DIAMETER	VAR	VARIES
INV	INVERT	VERT	VERTICAL
IR, IRR, IRRG	IRRIGATION	W	WATER
L	LENGTH	W/O	WITH
LB	LAG BOLT	W/O	WITHOUT
LOC	LOCATION, LOCATE	WL	WATERLINE
LIP	LIP OF GUTTER PAN	@	AT
LF	LINEAR FEET	℄	CENTERLINE
LP	LOW POINT		



REVISIONS



CITY OF
SANTACRUZ
PUBLIC WORKS DEPARTMENT
809 Center Street, Room 201
Santa Cruz, CA 95060

PACIFIC BEACH

ROUNDOABOUT ENHANCEMENTS

GENERAL NOTES & ABBREVIATIONS

REFERENCES

FIELD BOOK:

DRAWING #:

DATE 02/24/2025

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DESIGN

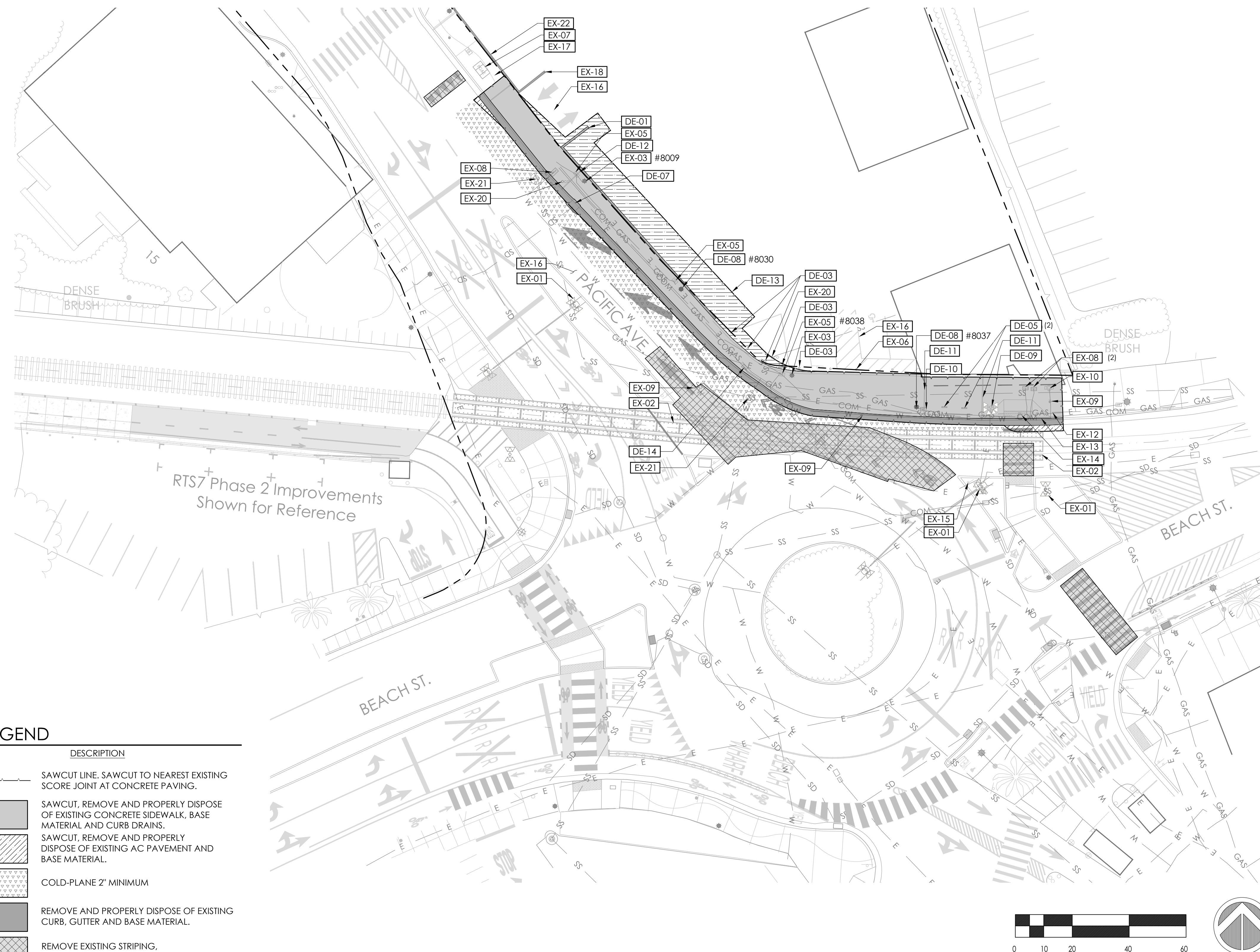
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VAULT NO.

7170



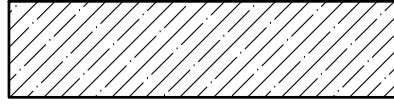
REFERENCE NOTES SCHEDULE

CODE	DESCRIPTION
DEMOLITION	
DE-01	REMOVE AND DISPOSE OF EXISTING RETAINING WALL AND FOOTING. REMOVE AND RETAIN EXISTING METAL RAILING FOR REUSE.
DE-03	REMOVE AND RETAIN EXISTING BOLLARDS AND CHAIN FOR REUSE.
DE-05	REMOVE AND RETAIN EXISTING BIKE RACKS FOR REUSE.
DE-07	REMOVE AND DISPOSE OF EXISTING CATCH BASIN.
DE-08	REMOVE AND RETAIN EXISTING LIGHT POLE AND FIXTURE FOR REUSE.
DE-09	REMOVE AND RETAIN EXISTING SIGNAL MAST FOR REUSE.
DE-10	REMOVE AND RETAIN EXISTING PULL BOX FOR REUSE.
DE-11	REMOVE AND DISPOSE OF EXISTING CURB DRAIN UP TO SAWCUT LINE.
DE-12	REMOVE AND DISPOSE OF EXISTING CURB DRAIN. CONTRACTOR TO CONFIRM NO UPSTREAM CONNECTION.
DE-13	SAWCUT ADJACENT ASPHALT AS NEEDED TO ALLOW FOR CLEAN TRANSITION TO PROPOSED FLATWORK.
DE-14	COMCAST TO REMOVE AND RETAIN COMCAST PULLBOX FOR REUSE.
EXISTING TO REMAIN	
EX-01	PROTECT IN PLACE EXISTING RAILROAD SIGNAL.
EX-02	PROTECT IN PLACE EXISTING RAILS AND TRACK PANELS.
EX-03	PROTECT IN PLACE EXISTING LIGHT POLE.
EX-05	PROTECT IN PLACE EXISTING PULL BOX.
EX-06	PROTECT IN PLACE EXISTING BOLLARDS AND CHAIN.
EX-07	PROTECT IN PLACE EXISTING PG&E VAULT.
EX-08	PROTECT IN PLACE EXISTING WATER METER.
EX-09	PROTECT IN PLACE EXISTING WATER VALVE.
EX-10	PROTECT IN PLACE EXISTING FIRE HYDRANT.
EX-12	PROTECT IN PLACE EXISTING GAS LINE.
EX-13	PROTECT IN PLACE EXISTING WATER LINE.
EX-14	PROTECT IN PLACE EXISTING ELECTRICAL LINE.
EX-15	PROTECT IN PLACE EXISTING SIGN.
EX-16	PROTECT IN PLACE EXISTING ASPHALT PAVING.
EX-17	PROTECT IN PLACE EXISTING CONCRETE SIDEWALK, CURB AND GUTTER.
EX-18	PROTECT IN PLACE EXISTING RETAINING WALL AND GUARDRAIL.
EX-20	PROTECT IN PLACE EXISTING SANITARY SEWER CLEAN OUT.
EX-21	PROTECT IN PLACE EXISTING SANITARY SEWER MANHOLE LID.
EX-22	PROTECT IN PLACE EXISTING RETAINING WALL AND RAILING.

DEMOLITION NOTES

1. ALL EXISTING UTILITIES WERE PLOTTED FROM RECORD INFORMATION AND FIELD TOPOGRAPHY. ACTUAL LOCATIONS MAY VARY AND ADDITIONAL CROSSINGS MAY EXIST IN THE FIELD. IT IS IMPERATIVE THAT "U.S.A. LOCATING SERVICES" AND "SUMMIT" LOCATE AND MARK EXISTING UTILITIES PRIOR TO THE START OF EXCAVATION.
2. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXPOSING EXISTING UTILITY CROSSINGS AND SERVICES.
3. ANY DAMAGE TO EXISTING UTILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	SAWCUT LINE, SAWCUT TO NEAREST EXISTING SCORE JOINT AT CONCRETE PAVING.
	SAWCUT, REMOVE AND PROPERLY DISPOSE OF EXISTING CONCRETE SIDEWALK, BASE MATERIAL AND CURB DRAINS.
	SAWCUT, REMOVE AND PROPERLY DISPOSE OF EXISTING AC PAVEMENT AND BASE MATERIAL.
	COLD-PLANE 2" MINIMUM
	REMOVE AND PROPERLY DISPOSE OF EXISTING CURB, GUTTER AND BASE MATERIAL.
	REMOVE EXISTING STRIPING, PAVEMENT MARKINGS.



REVISIONS



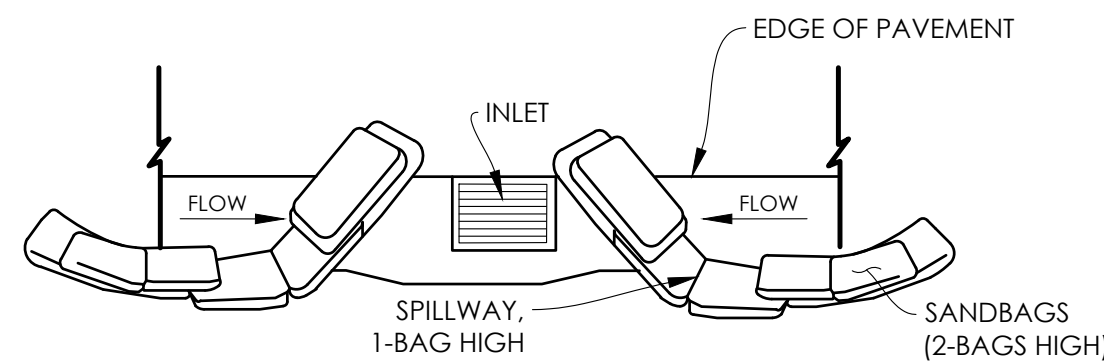
CITY OF
SANTACRUZ
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PACIFIC BEACH

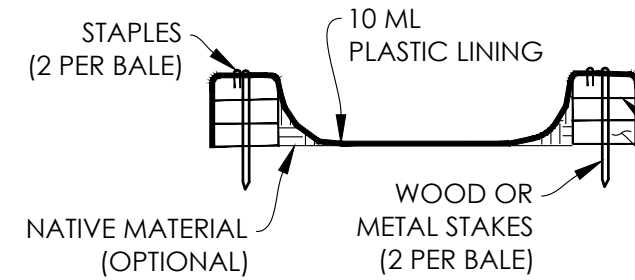
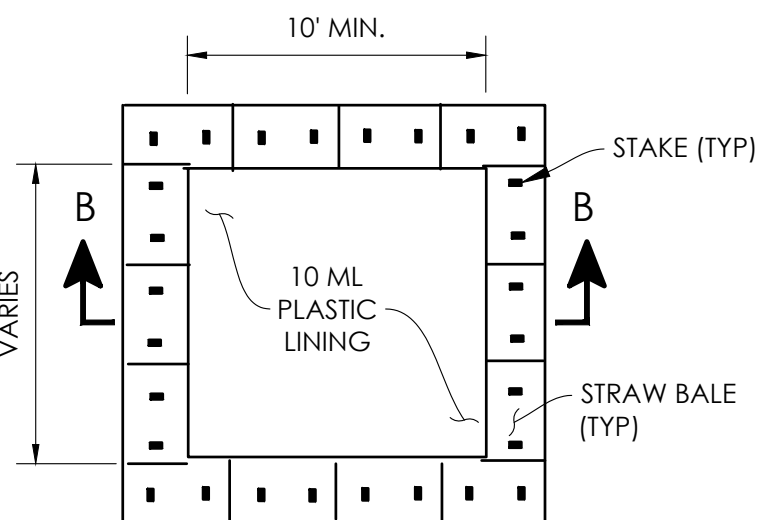
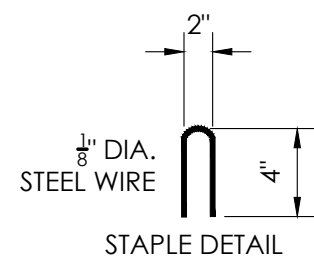
ROUNDBOUT ENHANCEMENTS

DEMOLITION PLANS

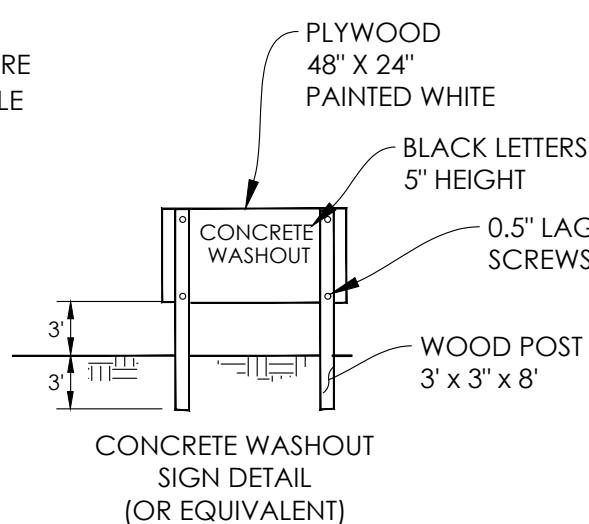
REFERENCES	DATE 02/24/2025	SCALE AS SHOWN
FIELD BOOK:	DRAWN MMS	DM-1.01
DRAWING #:	DESIGN MS	VAULT NO.
	CHECKED DC	7170



TYPICAL PROTECTION FOR INLET ON SUMP
-NTS-

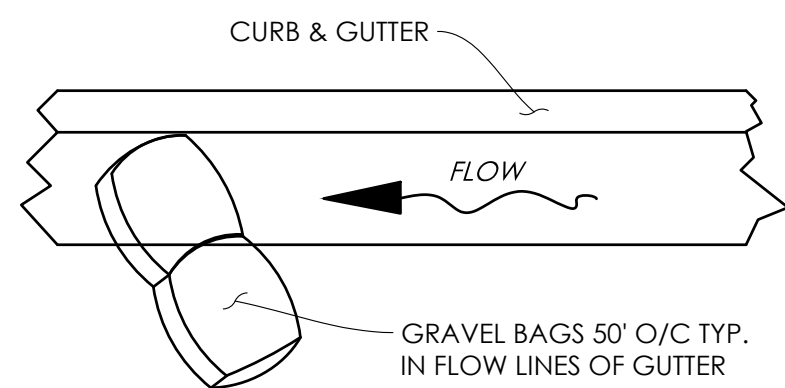


SECTION B-B
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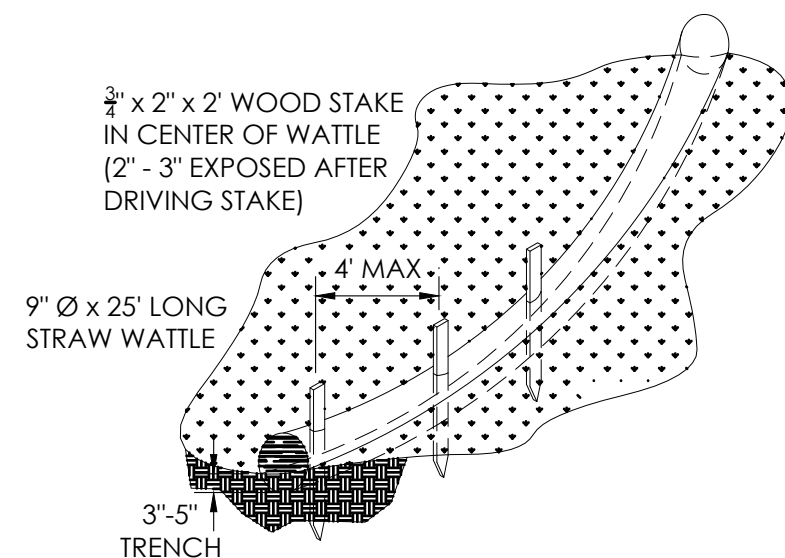
CONCRETE WASTE MANAGEMENT WM-8

-NTS-



SE-6 GRAVEL BAGS IN FLOW LINE DETAIL

-NTS-



NOTES:
PLACE NET-WRAPPED STRAW WATTLE IN TRENCH. WATTLE TO BE TIGHTLY BUTTED END TO END BUT NOT OVERLAPPING. MINIMUM 6 STAKES PER 25' OF WATTLE.

STRAW WATTLE DETAIL

-NTS-

[illegible]

1. THE CONTRACTOR SHALL IMPLEMENT GOOD HOUSEKEEPING PRACTICES AS OUTLINED IN THE GENERAL PERMIT.
2. THE CONTRACTOR SHALL CONDUCT AN INVENTORY OF THE PRODUCTS USED AND/OR EXPECTED TO BE USED AND THE END PRODUCTS THAT ARE PRODUCED AND/OR EXPECTED TO BE PRODUCED.
3. COVER AND BERM LOOSE STOCKPILED CONSTRUCTION MATERIALS THAT ARE NOT ACTIVELY BEING USED.
4. STORE CHEMICALS IN WATERTIGHT CONTAINERS (WITH APPROPRIATE SECONDARY CONTAINMENT TO PREVENT ANY SPILLAGE OR LEAKAGE) OR IN A STORAGE SHED (COMPLETELY ENCLOSED).
5. ALL EQUIPMENT AND VEHICLE FUELING AND MAINTENANCE PROCEDURES SHALL BE DONE IN THE AREA SHOWN ON THE SITE PLANS OR OTHER LOCATION WHERE THE APPROPRIATE BMP'S HAVE BEEN INSTALLED TO PREVENT ANY CONTAMINATION OF THE SOILS.
6. THE CONTRACTOR SHALL USE SOME TYPE OF GROUND COVER OR OTHER DEVICES TO INSURE NO PETROLEUM PRODUCTS COME IN CONTACT WITH SOILS DURING FUELING AND MAINTENANCE.
7. THE CONTRACTOR SHALL PROVIDE APPROPRIATE CONTAINMENT AROUND ANY SANITARY TOILETS THAT PREVENT CONTAMINATION TO THE SOILS.
8. ANY BUILDING MATERIALS THAT ARE STORED ON-SITE THAT HAVE THE POTENTIAL TO CONTRIBUTE NON-VISIBLE POLLUTANTS TO THE STORM WATER RUNOFF SHALL BE STORED IN WATERTIGHT CONTAINERS OR UNDER THE COVER OF SHELTERS THAT PROVIDE PROTECTION FROM RAINS.
9. CONSTRUCTION MATERIAL WASTES SHALL BE CLEANED UP DAILY AND STORED IN COVERED CONTAINERS PRIOR TO DISPOSAL.

THE FOLLOWING PRACTICES ARE TO BE USED AT ALL TIMES DURING CONSTRUCTION:

THE FOLLOWING PRACTICES ARE TO BE USED AT ALL TIMES DURING CONSTRUCTION:

1. REDUCE THE AMOUNT OF DISTURBED AREA WHERE POSSIBLE.
2. USE WATER TRUCKS OR SPRINKLER SYSTEMS IN SUFFICIENT QUANTITY TO PREVENT AIRBORNE DUST FROM LEAVING THE SITE. INCREASED WATERING FREQUENCY WILL BE REQUIRED WHENEVER WIND SPEEDS EXCEED 15MPH. RECLAIMED (NON-POTABLE WATER) WATER SHOULD BE USED WHENEVER POSSIBLE.
3. PERMANENT DUST CONTROL MEASURES IDENTIFIED IN THE APPROVED PROJECT PLANS SHALL BE IMPLEMENTED AS SOON AS POSSIBLE FOLLOWING COMPLETION OF ANY SOIL DISTURBING ACTIVITIES.
4. ALL ROADWAYS, DRIVEWAYS, SIDEWALKS, ETC. TO BE PAVED SHOULD BE COMPLETED AS SOON AS POSSIBLE. IN ADDITION, BUILDING PADS SHOULD BE LAID AS SOON AS POSSIBLE AFTER GRADING UNLESS SEEDING OR SOIL BINDERS ARE USED.
5. VEHICLE SPEED FOR ALL CONSTRUCTION VEHICLES SHALL NOT EXCEED 15MPH ON ANY UNPAVED SURFACE AT THE CONSTRUCTION SITE.
6. ALL TRUCKS HAULING DIRT, SAND, SOIL, OR OTHER LOOSE MATERIAL ARE TO BE COVERED OR SHOULD MAINTAIN AT LEAST TWO FEET OF FREEBOARD (MINIMUM VERTICAL DISTANCE BETWEEN TOP OF LOAD AND TOP OF TRAILER) IN ACCORDANCE WITH THE CALIFORNIA VEHICLE CODE SECTION 231.14.
7. SWEEP STREETS AT THE END OF EACH DAY IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PAVED ROADS. WATER SWEEPERS WITH RECLAIMED WATER SHOULD BE USED WHERE FEASIBLE.
8. A DESIGNATED DUST CONTROL MONITOR SHALL BE CHOSEN. THEY SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL DUST CONTROL MEASURES. THE MONITOR SHALL BE AVAILABLE DURING WEEKENDS AND HOLIDAYS. THE NAME AND PHONE NUMBER OF THE MONITOR SHALL BE PROVIDED TO THE CITY AND MBARD.

1. THE CONTRACTOR SHALL COORDINATE A PRECONSTRUCTION MEETING WITH THE CONSTRUCTION TEAM (SUBCONTRACTORS AND PERTINENT CONSTRUCTION STAFF) AND CITY STAFF TO REVIEW THE REQUIRED BEST MANAGEMENT PRACTICES (BMPs) DURING CONSTRUCTION PER THE REGIONAL WATER QUALITY CONTROL BOARD CONSTRUCTION GENERAL PERMIT AND GOVERNING MS4 PERMIT.
2. IF FAILURE OF ANY OF THE BMPs SHOULD RESULT IN NTUS THAT EXCEED THE LIMITS OF THE GENERAL PERMIT REQUIREMENTS, THE GSP SHALL IMPLEMENT THE CHANGES NECESSARY TO KEEP THE VIOLATION FROM HAPPENING AGAIN, AND REPORT THE VIOLATION VIA THE SMARTS SYSTEM PER THE REQUIREMENTS OF THE GENERAL PERMIT.
3. IF WATER MONITORING BECOMES NECESSARY PER THE REQUIREMENTS OF THE GENERAL PERMIT, THEN THE PERSON OR PERSONS DOING THE MONITORING SHALL HAVE THE APPROPRIATE TRAINING AND QUALIFICATION TO PERFORM SUCH MONITORING.
4. THE GSP SHALL ASSURE ALL SAFETY PRECAUTIONS NECESSARY HAVE BEEN IMPLEMENTED TO DO THE WATER MONITORING.
5. A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (OCTOBER 15 THROUGH APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS INMINENT.
6. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THIS PLAN AND/OR AS DIRECTED BY THE CITY TO CONTROL DRAINAGE WHICH HAS BEEN AFFECTED BY GRADING AND/OR TRENCHING
7. THE CONTRACTOR WILL BE ON CALL IN THE EVENT IT IS NECESSARY TO IMPLEMENT EROSION CONTROL MEASURES OR IN THE EVENT OF AN EMERGENCY.
8. ALL STORMWATER CONTROL MEASURES THAT ARE IDENTIFIED IN THE REAP SHALL BE IN PLACE MIN. OF 24 HRS. PRIOR TO FORECAST RAINS.
9. AFTER A RAINSTORM, ALL BMPs SHALL BE INSPECTED AND ANY BUILDUP OF SEDIMENTS SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.
10. THE ENGINEER OF RECORD, GSD OR AN AUTHORIZED REPRESENTATIVE MAY REQUIRE THE CONTRACTOR AT ANY TIME TO INSTALL AND/OR CONSTRUCT ADDITIONAL DRAINAGE STRUCTURES AS NECESSARY TO PREVENT OR CONTROL EROSION.
11. THE EROSION CONTROL DEVICES ON THIS PLAN ARE A GENERAL CONCEPT OF WHAT MAY BE REQUIRED. EROSION CONTROL DEVICES MAY BE RELOCATED, DELETED OR ADDITIONAL ITEMS MAY BE REQUIRED DEPENDING ON THE ACTUAL SOIL CONDITIONS ENCOUNTERED. EROSION CONTROL DEVICES MAY BE PLACED AT THE DISCRETION OF THE CITY AS APPROVED BY THE CITY.
12. THE CONTRACTOR IS RESPONSIBLE TO KEEP IN FORCE ALL EROSION CONTROL DEVICES AND TO MODIFY THOSE DEVICES AS SITE PROGRESS DICTATES.
13. THE CONTRACTOR SHALL MONITOR THE EROSION CONTROL DEVICES DURING STORMS AND MODIFY THEM IN ORDER TO PREVENT PROGRESS OF ANY ONGOING EROSION.
14. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING ANY EROSION OR DEBRIS SPILLING ONTO A PUBLIC STREET DAILY.
15. THE CONTRACTOR SHALL CONTACT THE CITY IN THE EVENT THAT THE EROSION CONTROL PLAN AS DESIGNED REQUIRES ANY SUBSTANTIAL REVISIONS.
16. DURING GRADING OPERATIONS IF AN AREA OF DISTURBANCE IS TO REMAIN IDLE FOR A PERIOD OF 2 OR MORE WEEKS, THE DISTURBED AREAS SHALL BE COVERED WITH MULCH, STRAW OR SOME OTHER TYPE OF BMP TO PREVENT EROSION DURING RAIN EVENTS.
17. THE CONTRACTOR SHALL PROVIDE STREET SWEEPING ONGOING DURING CONSTRUCTION TO PREVENT ANY SEDIMENTS FROM BEING TRACKED OFF-SITE OR TO AREAS THAT MAY CONTRIBUTE TO SEDIMENTS BEING DEPOSITED INTO THE STORM DRAIN SYSTEM.
18. GRAVEL BAGS ORIENTED TO SLOW THE FLOW OF STORM WATER RUNOFF SHALL BE PLACED IN THE CONCRETE GUTTERS IN THE ON-SITE ROADWAY TO HELP FILTER OUT ANY SEDIMENTS. THESE GRAVEL BAGS SHALL BE PLACED 50' O/C MAX. SEDIMENTS THAT ACCUMULATE AT THE GRAVEL BAGS SHALL BE REMOVED AFTER EACH RAIN EVENT.
19. THE CONTRACTOR SHALL IMPLEMENT EFFECTIVE WIND EROSION CONTROLS.
20. IN THE EVENT OF A RELEASE OF A REPORTABLE QUANTITY OF A POLLUTANT, THE CONTRACTOR SHALL ADVISE THE OWNER TO NOTIFY THE NATIONAL RESPONSE CENTER AND THE CITY. IF NECESSARY, THIS POLLUTION PREVENTION PLAN SHOULD BE REVISED TO REFLECT THE CHANGE IN CONDITIONS OF THE CONSTRUCTION ACTIVITY. A REPORTABLE QUANTITY IS ESTABLISHED BY THE 40 CODE OF FEDERAL REGULATIONS (CFR) 111.7.3 OR 40 CFR 302.4.
21. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED TO THE SATISFACTION OF THE BUILDING OFFICIAL AND PUBLIC WORKS DIRECTOR DURING ALL DEMOLITIONS, CONSTRUCTION AND GROUND DISTURBING ACTIVITIES.
22. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WHEN PERMANENT IMPROVEMENTS, PLANTINGS, AND FACILITIES ARE IN PLACE. TEMPORARY MEASURES SHALL BE REMOVED PRIOR TO FINAL INSPECTION APPROVALS.
23. STOCKPILE MANAGEMENT SHALL BE IN CONFORMANCE WITH GENERAL PERMIT AND THE CASQA BMP GUIDE.
24. IF DURING CONSTRUCTION DEWATERING OPERATIONS BECOME NECESSARY, ALL DEWATERING SHALL BE DONE IN COMPLIANCE WITH THE REQUIREMENTS OUTLINED THE NPDES GENERAL PERMIT AND PER THE CASQA BMP HANDBOOK FOR BMP SC-11. DISCHARGES SHALL BE TREATED FOR EXCESSIVE SEDIMENTS PRIOR TO LEAVING THE SITE AND/OR ENTERING THE CITY'S STORM DRAIN SYSTEM.



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PUBLIC WORKS DEPARTMENT
809 Center Street, Room 201
Santa Cruz, CA 95060

PACIFIC BEACH

ROUNDOABOUT ENHANCEMENTS

EROSION CONTROL NOTES

REFERENCES

FIELD BOOK:

DRAWING #:
EC-0193-07

DATE 02/24/2025

DRAWN NW

DESIGN DC

CHECKED DC

SCALE AS SHOWN

EC-1.00

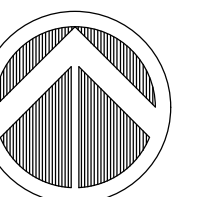
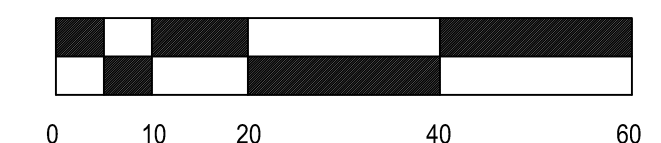
VAULT NO.

717C



#	BMP SYMBOL	NAME	LEGEND
①	SE-1	SILT FENCE	
②	SE-5	STRAW WATTLE	
③	SE-7	STREET SWEEPING AND VACUUMING	
④	SE-10	STORM DRAIN INLET PROTECTION (TYPE 5)	
⑤	TC-1/TC-3	STABILIZED CONSTRUCTION ENTRANCE	
⑥	WM-1/WM-2	MATERIAL DELIVERY & STORAGE/ MATERIAL USE	
⑦	WM-8	CONCRETE WASTE MANAGEMENT	
⑧	SE-6	GRAVEL BAGS	

1. PERIMETER CONTROL BMP'S SHALL BE IN PLACE PRIOR TO ANY GROUND DISTURBANCE.
2. THESE PLANS ARE INTENDED TO REPRESENT DIFFERENT PHASES DURING CONSTRUCTION. THE CONTRACTOR SHALL IMPLEMENT THE BMP'S SHOWN AND/OR ANY OTHER MEASURES NECESSARY DURING CONSTRUCTION TO BE IN COMPLIANCE WITH THE CONSTRUCTION GENERAL PERMIT. IMPLEMENTATION OF THE BMP'S SHOWN ON THESE PLANS DO NOT RELIEVE THE OWNER OR HIS/HER REPRESENTATIVE FROM RESPONSIBILITY OF IMPLEMENTING ALL MEASURES NEEDED TO BE IN COMPLIANCE WITH THE CONSTRUCTION GENERAL PERMIT.
3. THE CONTRACTOR SHALL USE 3" - 6" STONES FOR THE STABILIZED CONSTRUCTION ENTRANCE OR ALTERNATE METHODS THAT ACHIEVE THE DESIRED RESULTS. THIS BMP SHALL BE IMPLEMENTED AS SOON AS PRACTICAL.
4. CONSTRUCTION THAT INCLUDES DEMOLITION AND REPLACEMENT OF EXISTING ASPHALT SHALL BE COMPLETED WHEN THERE IS NO FORECAST RAIN EVENTS. AREAS THAT WILL BE IDLE FOR EXTENDED PERIODS OF TIME SHALL BE COVERED WITH TEMPORARY ASPHALT PATCHING. (COLD MIX).
5. GRAVEL BAGS SHOWN IN THE CURB AND GUTTER FLOW LINES SHALL BE ORIENTED TO TEMPORARILY SLOW AND DAM THE FLOWING STORM WATER IN THE GUTTERS TO HELP FILTER OUT ANY SEDIMENT. THESE GRAVEL BAGS SHALL BE SPACED AT 50' O/C OR CLOSER AS CONDITIONS WARRANT.
6. ANY SEDIMENT TRACKED OFFSITE SHALL BE CLEANED DAILY BY MEANS OF MOBILE STREET SWEEPERS.
7. THE LOCATIONS SHOWN FOR THE EQUIPMENT AND MATERIAL DELIVERY STORAGE AREAS AND CONCRETE WASTE CLEANOUT MAY BE RELOCATED DURING CONSTRUCTION WITH WRITTEN APPROVAL BY THE CITY.
8. THE CONTRACTOR SHALL SUBMIT THE LOCATION OF THE CONSTRUCTION STAGING AREA AND ANY REQUIRED TRAFFIC CONTROL PLANS TO THE CITY FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITY.



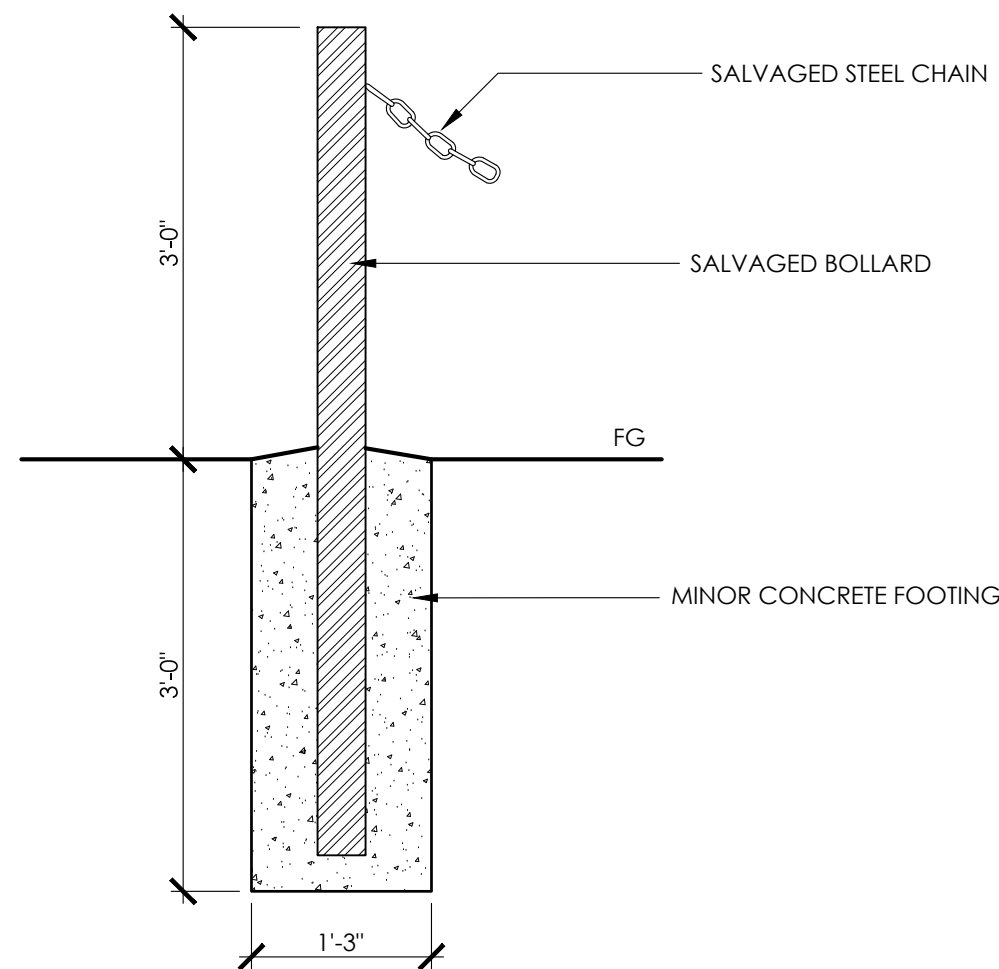
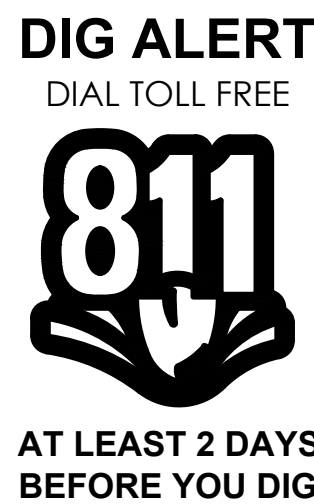


PACIFIC BEACH

ROUNABOUT ENHANCEMENTS

EROSION CONTROL PLANS

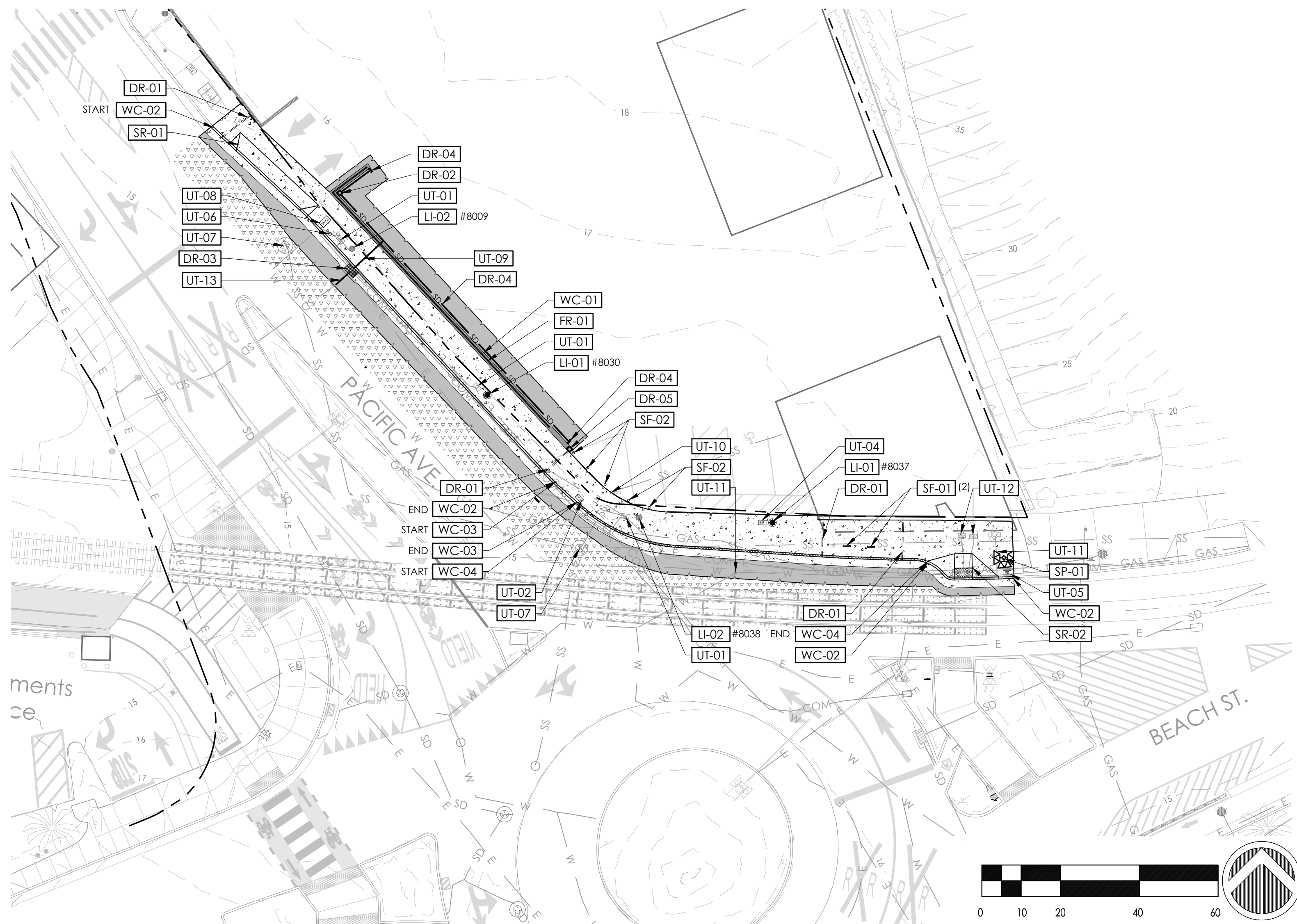
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RELOCATED BOLLARD AND CHAIN

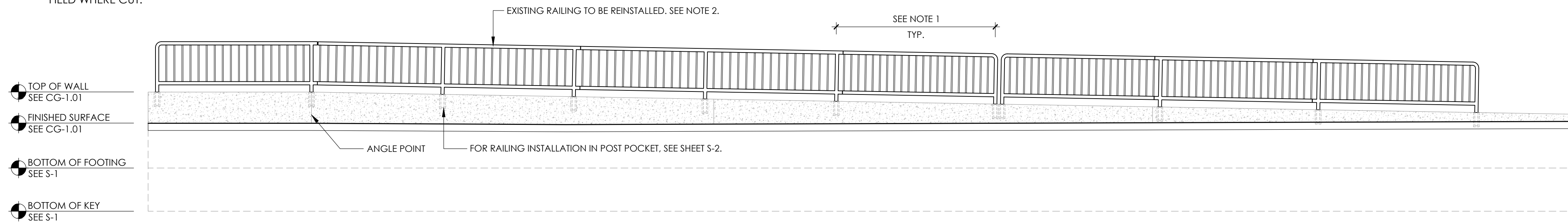
$$3/4'' = 1'-0''$$

RRM-0001-0193.07-02



NOTES:

1. APPROXIMATE POST POCKET LOCATIONS SHOWN. CONTRACTOR TO VERIFY EXACT LOCATIONS IN FIELD TO MATCH EXISTING POST SPACING.
2. ANY RUST FOUND ON EXISTING RAILING SHALL BE REMOVED, POST BOTTOMS AND RAILING TO BE RE-GALVANIZED AND RE-WELD IN FIELD WHERE CUT.



 RETAINED METAL RAILING

 $1'' = 5'$

RRM-0001-0193.07-70

PAVING AND SURFACING (PA)		
SYMBOL	DESCRIPTION	
	CONCRETE SIDEWALK PER CITY STD DWG G1 AND G10.	
	DETECTABLE WARNING SURFACE PER CALTRANS DWG A88A.	
	HMA OVERLAY PROVIDE 2" OVERLAY MINIMUM; PROVIDE A SMOOTH AND CONTINUOUS SURFACE WITH ADJACENT SAWCUTTING AND PAVEMENT IMPROVEMENTS.	
	HMA PAVING CONFORM PER CITY STD DWG G1.	
STAIRS AND RAMPS (SR)		
CODE	DESCRIPTION	
[SR-01]	DRIVEWAY PER CITY STD DWG G2.	
[SR-02]	CURB RAMP - CASE A PER CALTRANS STD PLAN A88A.	
WALLS AND CURBS (WC)		
CODE	DESCRIPTION	
[WC-01]	RETAINING WALL SEE SHEETS S1-S2.	
[WC-02]	6" CURB AND GUTTER. PER CITY STD, DWG G1.	
[WC-03]	6" CURB TO 9" CURB, TRANSITION FOR 7LF.	
[WC-04]	9" CURB AND GUTTER PER MODIFIED CALTRANS DWG A2-8. SEE SHEET CG-1.01.	
FENCES AND RAILINGS (FR)		
CODE	DESCRIPTION	DETAIL
[FR-01]	INSTALL RETAINED METAL RAILING.	A/CP-1.01
DRAINAGE (DR)		
CODE	DESCRIPTION	
[DR-01]	CURB DRAIN, JOIN CAST IRON CURB DRAIN TO EXISTING. PER CITY STD DWG G3.	
[DR-02]	CLEANOUT 8" NDS TYPE WITH TRAFFIC RATED GRATE.	
[DR-03]	CATCH BASIN (TYPE B), PER CITY STD DWG S9. WITH SUMPED SILT TRAP, PER CITY STD, DTL 7.	
[DR-04]	4" PERFORATED PVC FRENCH DRAIN, PROVIDE CAP AT BOTH END OF LINE.	
[DR-05]	DRAIN INLET 8" NDS TYPE WITH TRAFFIC RATED GRATE.	
SITE FURNISHINGS (SF)		
CODE	DESCRIPTION	DETAIL
[SF-01]	INSTALL RETAINED BIKE RACK.	
[SF-02]	INSTALL RETAINED BOLLARDS AND CHAIN. ADJUST BOLLARDS TO GRADE.	B/CP-1.01
UNDERGROUND UTILITIES (UT)		
CODE	DESCRIPTION	
[UT-01]	INSTALL RETAINED PULL BOX, ADJUST TO GRADE, SEE SHEET E-201.	
[UT-02]	INSTALL RETAINED COMCAST PULL BOX BY COMCAST, CONTRACTOR TO COORDINATE.	
[UT-04]	INSTALL RETAINED ELECTRICAL PULL BOX, SEE SHEET E-201.	
[UT-05]	INSTALL RETAINED RAILROAD SIGNAL MAST PULL BOX, SEE SHEET RRS-02.	
[UT-06]	INSTALL RETAINED SANITARY SEWER CLEANOUT, ADJUST TO GRADE.	
[UT-07]	INSTALL RETAINED SANITARY SEWER MANHOLE, ADJUST TO GRADE, CONTRACTOR TO CONFIRM TRAFFIC RATED GRATE AND COVER, SEE SHEET CG-1.01.	
[UT-08]	RELOCATE RETAINED WATER METER AND ASSEMBLY, CONTRACTOR SHALL NOTIFY CITY OF SANTA CRUZ WATER DEPARTMENT OF PLANNED DOWNTIME FOR WATER SERVICE AND SHALL MINIMIZE WATER SERVICE DOWNTIME TO THE SATISFACTION OF THE CITY OF SANTA CRUZ WATER DEPARTMENT.	
[UT-09]	INSTALL 4" PVC STORM DRAIN.	
[UT-10]	ADJUST TO GRADE EXISTING SANITARY SEWER CLEANOUT.	
[UT-11]	ADJUST TO GRADE EXISTING WATER VALVE.	
[UT-12]	ADJUST TO GRADE EXISTING WATER METER.	
[UT-13]	INSTALL 18" HPDE STORM DRAIN.	
SITE LIGHTING (LI)		
CODE	DESCRIPTION	
[LI-01]	INSTALL RETAINED LIGHT POLE AND FIXTURE, ADJUST TO GRADE, SEE E-201.	
[LI-02]	ADJUST EXISTING LIGHT POLE TO GRADE, SEE SHEET E-201.	
SPECIALTY (SP)		
CODE	DESCRIPTION	
[SP-01]	INSTALL RETAINED SIGNAL MAST, SEE SHEET RRS-01.	



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PACIFIC BEACH
 ROUNDABOUT ENHANCEMENTS
 CONSTRUCTION KEYNOTE PLANS

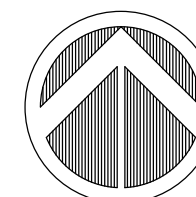
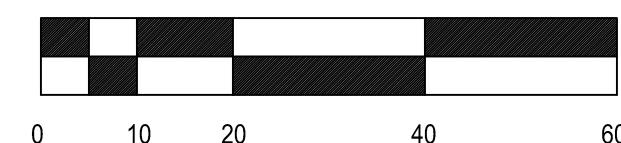
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DRAWING #:	DESIGN KS/MS	VAULT NO. 7170
	CHECKED MS	

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PACIFIC BEACH ENHANCEMENTS BID-READY CONSTRUCTION DOCUMENTS - 02/24/2025



POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
1	PT	1812757.5224	6116298.9442
2	PT	1812733.1712	6116318.1922
3	PT	1812737.5615	6116322.2819
4	PT	1812743.7753	6116330.0778
5	PT	1812737.4580	6116334.9850
6	CL	1812723.8791	6116336.9697
7	PT	1812705.5592	6116347.2106
8	WALL PT	1812721.0457	6116352.5097
9	DI	1812701.8206	6116358.6841
10	BEGIN WALL	1812728.1823	6116362.0968
11	BC	1812647.0310	6116401.0786
12	BC	1812651.1000	6116405.4881
13	STRIPe	1812655.7449	6116395.3746
14	BC	1812648.9258	6116419.0741
15	PT	1812656.1019	6116412.4384
16	EC	1812639.7500	6116439.9540
17	PCC	1812639.0645	6116418.6563
18	PT	1812627.5062	6116427.8176
19	PT	1812632.9389	6116416.8182
20	EC	1812626.1957	6116435.2468
21	PT	1812623.3766	6116477.5652
22	PT	1812618.2950	6116482.2314
23	BC	1812616.8501	6116464.4515
24	EC	1812608.1453	6116482.1776
25	BC	1812622.8779	6116487.3172
26	BC	1812610.0535	6116487.0794
27	EC	1812603.0210	6116489.7300
28	PT	1812602.8756	6116505.3004
29	EC	1812617.4467	6116505.5702
30	PRC	1812622.5383	6116500.7063
31	PT	1812622.9470	6116526.2796
32	EC	1812622.5460	6116510.8242
33	PRC	1812623.6982	6116508.4246
34	BC	1812627.5391	6116500.6532
35	PT	1812628.5011	6116475.7929
36	EC	1812630.8647	6116440.3730
37	PT	1812638.8620	6116476.4740
38	PT	1812637.4976	6116525.7906
39	CURB RAMP	1812622.6528	6116515.7429
40	PT	1812604.6945	6116435.6894
41	PT	1812613.7892	6116427.2245
42	PT	1812670.3064	6116367.4118
43	PT	1812622.7358	6116519.5652
44	LIGHT FC	1812629.2612	6116464.4045
45	LIGHT FC	1812667.5502	6116390.3082
46	SIGNAL MAST	1812628.2386	6116523.6712





PACIFIC BEACH

ROUNDABOUT ENHANCEMENTS

HORIZONTAL CONTROL PLAN

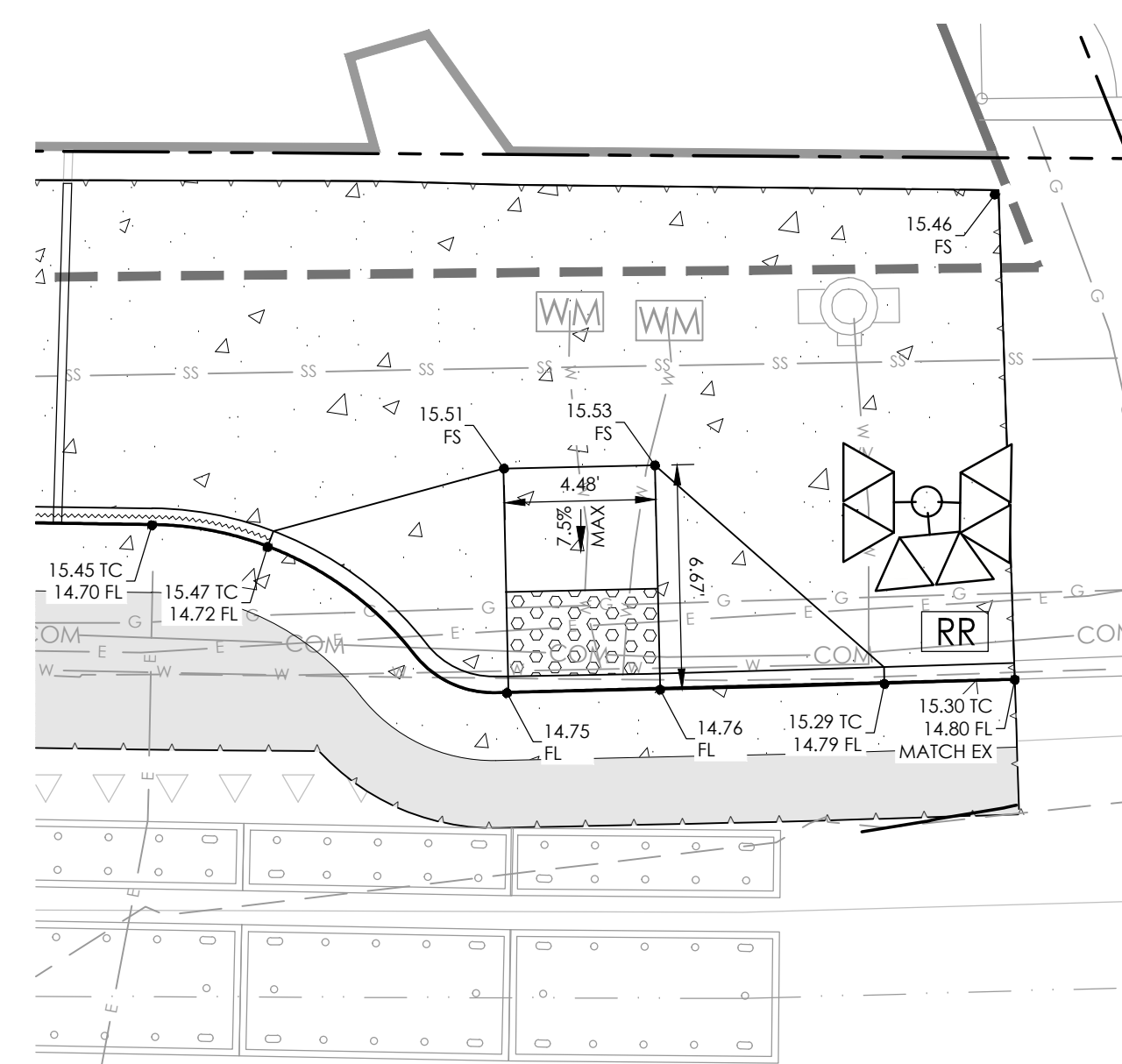
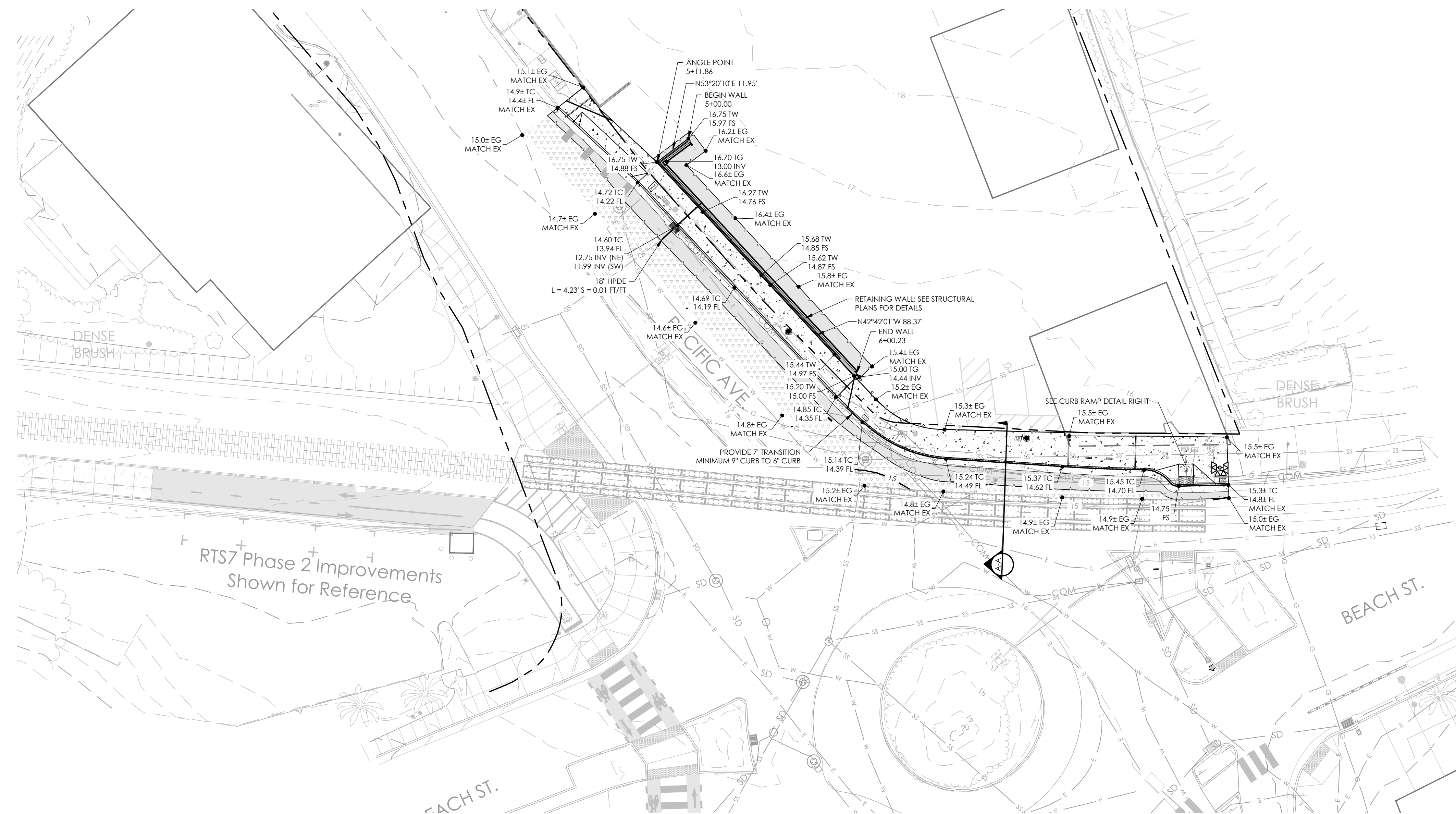
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HC-0193-07

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717C

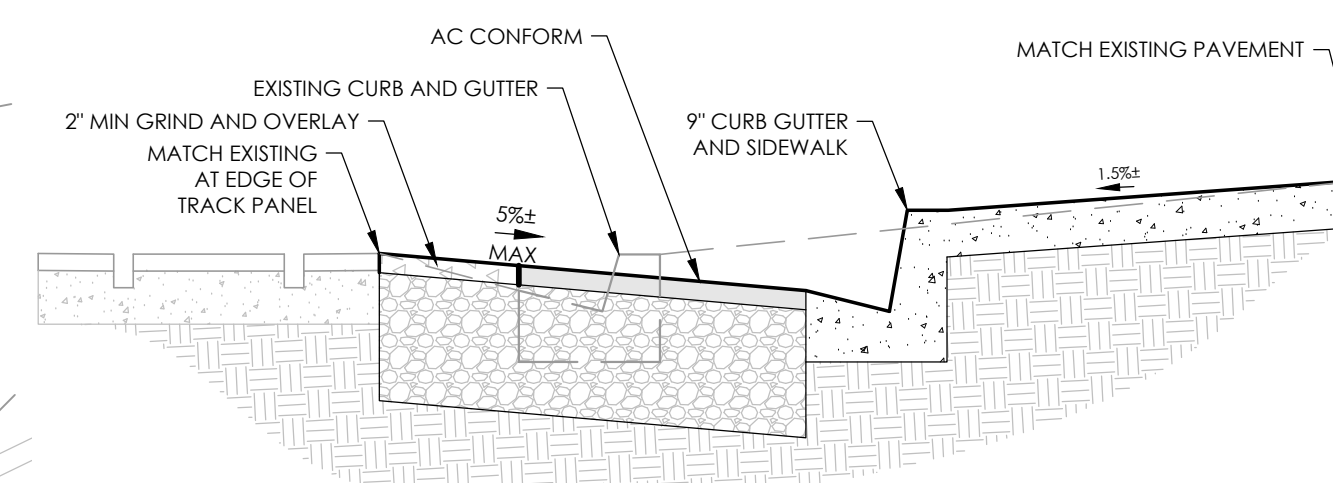


**AT LEAST 2 DAYS
BEFORE YOU DIG**



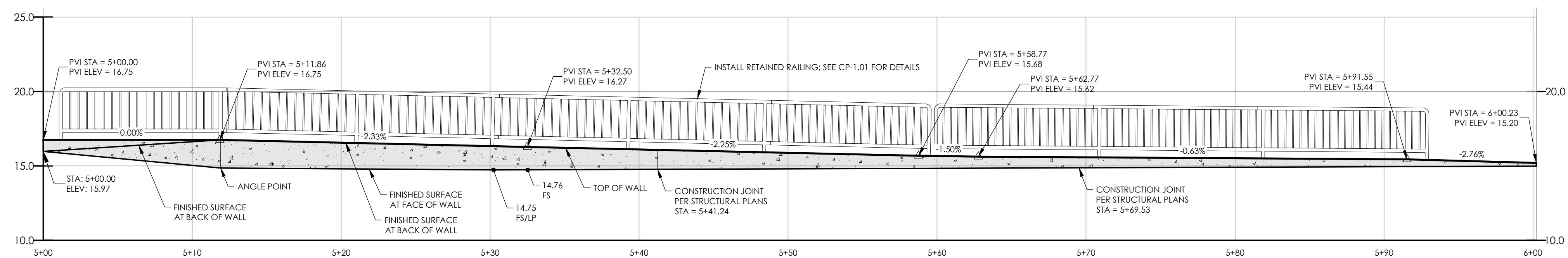
CURB RAMP DETAIL

NT:



SECTION A-A

NT:



WALL PROFILE

 $1'' = 5'$ 

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PACIFIC BEACH

ROUNABOUT ENHANCEMENTS

GRADING AND DRAINAGE PLANS

REFERENCES	DATE 02/24/2025	SCALE 1" = 20'-0"
FIELD BOOK:	DRAWN NW	CG-1.01
DRAWING #: CG-0193-07	DESIGN DC	VAULT NO.
	CHECKED DC	7170

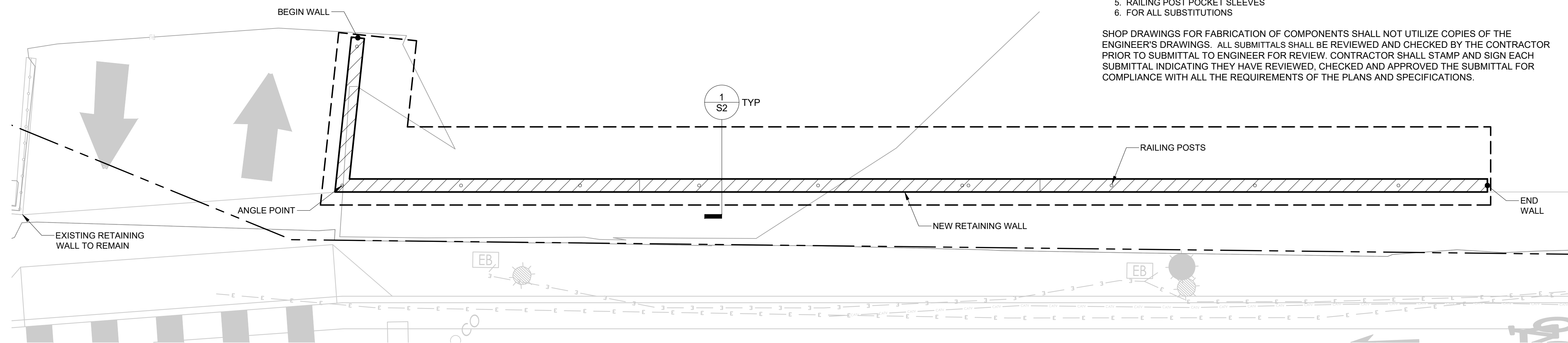
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PACIFIC BEACH ENHANCEMENTS BID-READY CONSTRUCTION DOCUMENTS - 02/24/2025



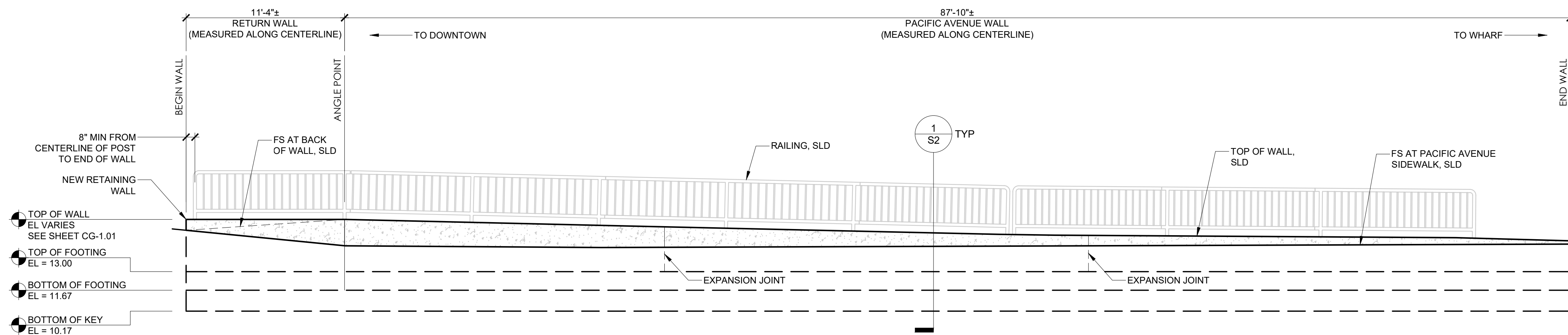
STRUCTURAL KEY MAP

SCALE: NTS



FOUNDATION PLAN

SCALE: 1" = 5'



RETAINING WALL DEVELOPED ELEVATION

SCALE: 1" = 5'



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PUBLIC WORKS DEPARTMENT
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PACIFIC BEACH

ROUNABOUT ENHANCEMENTS

GENERAL NOTES, PLAN & PROFILE

REFERENCES FIELD BOOK: DRAWING #:	DATE	02/24/2025	SCALE	AS NOTED
	DRAWN	EDD	S1	
	DESIGN	EDD/PD	VAULT NO.	
	CHECKED			

APPROVAL BY THE SPECIAL INSPECTOR DOES NOT MEAN APPROVAL OF FAILURE TO COMPLY WITH THE PLANS OR SPECIFICATIONS. ANY DETAIL THAT FAILS TO BE CLEAR OR IS AMBIGUOUS MUST BE REFERRED TO THE ENGINEER FOR INTERPRETATION OR CLARIFICATION PRIOR TO PERFORMING THE WORK.

SHEET NOTES

1. GRADE SHOWN IS APPROXIMATE AND VARIES. SEE GRADING PLAN FOR ELEVATIONS.
2. TOP OF FOOTING SHALL BE EMBEDDED A MINIMUM OF 18" BELOW FINISHED GRADE.
3. BOTTOM OF FOOTING SHALL BE EMBEDDED A MINIMUM OF 12" INTO COMPETENT MATERIAL.
4. EXISTING SOIL CONDITIONS UNDER PROPOSED RETAINING WALL ARE UNKNOWN. VERIFY SOIL CONDITIONS AT TIME OF CONSTRUCTION.
5. IF POOR SOILS ARE FOUND SUBMIT AN RFI BEFORE PROCEEDING WITH THE WORK. IF POOR SOILS ARE ENCOUNTERED, ADDITIONAL EARTHWORK AND/OR IMPORT OF ENGINEERED FILL MAY BE REQUIRED AS DIRECTED BY CITY DURING CONSTRUCTION.
6. FOUNDATION SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE PROJECT SPECIAL PROVISIONS.
7. BACKFILL SHALL NOT BE PLACED BEHIND RETAINING WALLS UNTIL 21 DAYS AFTER PLACING CONCRETE. BACKFILL OR UNTIL THE CONCRETE HAS DEVELOPED A COMPRESSIVE STRENGTH OF NOT LESS THAN 2,800 PSI, WHICHEVER OCCURS FIRST. PERMEABLE MATERIALS PLACED BEHIND RETAINING WALLS SHALL BE OF THE TYPE SPECIFIED IN THE GEOTECHNICAL INVESTIGATION.
8. CONTRACTOR SHALL CAREFULLY EXCAVATE ALL MATERIALS NECESSARY, OF WHATEVER NATURE, FOR CONSTRUCTION OF THE WORK. ANY MATERIAL OF AN UNSUITABLE OR DELETERIOUS NATURE DISCOVERED BELOW THE BOTTOMS OF THE FOUNDATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY BEFORE PROCEEDING WITH THE WORK.

SUBMITTALS

SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW IN THE FOLLOWING AREAS OF WORK:

1. CONCRETE MIX DESIGNS, STAMPED BY AN ENGINEER LICENSED IN THE STATE OF CALIFORNIA
2. CONCRETE CURING METHOD
3. REBAR SHOP DRAWINGS
4. RAILING POST POCKET GROUT
5. RAILING POST POCKET SLEEVES
6. FOR ALL SUBSTITUTIONS

SHOP DRAWINGS FOR FABRICATION OF COMPONENTS SHALL NOT UTILIZE COPIES OF THE ENGINEER'S DRAWINGS. ALL SUBMITTALS SHALL BE REVIEWED AND CHECKED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO 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.

GENERAL DESIGN NOTES

<u>SOIL PARAMETERS FROM CBC TABLE 1806.2 FOR CLASS 4 MATERIAL:</u>		<u>MATERIALS:</u>
ACTIVE PRESSURE:	$P_a = 45 \text{ PCF}$	<u>CONCRETE:</u> $f_c = 4,000 \text{ psi}$
PASSIVE PRESSURE:	$P_p = 150 \text{ PCF}$	
BEARING PRESSURE:	$Q = 2,000 \text{ PSF}$	<u>REBAR:</u> $F_y = 60,000 \text{ psi}$
FRICTION COEFFICIENT:	$\mu = 0.25$	
COHESION:	0 PSF	
SEISMIC LOADING:		
LIVE LOAD SURCHARGE:	120 PSF	

SOIL CRITERIA

IN LIEU OF A GEOTECHNICAL INVESTIGATION, RRM HAS DIRECTED MME TO USE ASSUMED SOIL CRITERIA FROM CALIFORNIA BUILDING CODE SECTIONS 1610.1 AND TABLE 1606.2 (BELOW) AS THE BASIS OF DESIGN IF ANY OF THE FOLLOWING SOILS ARE ENCOUNTERED DURING EXCAVATION, NOTIFY THE CITY IMMEDIATELY BEFORE PROCEEDING WITH THE WORK:

POOR SOILS
UNKNOWN FILL SOILS
CLAYEY SANDS, POORLY GRADED SAND-CLAY MIXES (SC)
MIXTURE OF INORGANIC SILT AND CLAY (ML-CL)
INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY (CL)

STRUCTURAL CONCRETE

1. CONCRETE SHALL BE CONSTRUCTED OF NORMAL WEIGHT CONCRETE, AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
2. CONCRETE MIX SHALL PROVIDE LOW PERMEABILITY, DURABILITY AND RESISTANCE TO SALTWATER INTRUSION AND AS A MINIMUM SHALL HAVE TYPE II CEMENT WITH A MAXIMUM WATER/CEMENT RATIO OF 0.40.
3. DRYING SHRINKAGE LIMIT: 0.04 PERCENT. DRYING SHRINKAGE LIMIT IS PERCENTAGE OF CHANGE IN LENGTH AFTER 21 DAYS OF DRYING WHEN TESTED PER ASTM C157.
4. REINFORCED CONCRETE SHALL CONTAIN THE FOLLOWING ADMIXTURES:
 - A. AIR ENTRAINMENT: ASTM C260, "DARAVAIR", "MICRO-AIR", MANUFACTURED BY W.R. GRACE, MASTER BUILDERS OR EQUAL. AIR-ENTRAINING ADMIXTURES SHALL PROVIDE AIR CONTENT FROM 2% TO 4% BY VOLUME.
 - B. CORROSION INHIBITOR: CALCIUM NITRITE BASED CORROSION INHIBITOR SHALL BE ADDED TO THE MIX AT A MINIMUM DOSAGE OF 2 GALLONS PER CUBIC YARD.
 - C. SHRINKAGE REDUCING ADMIXTURE MANUFACTURED BY W.R. GRACE, MASTER BUILDERS OR EQUAL.

BACKDRAIN NOTES

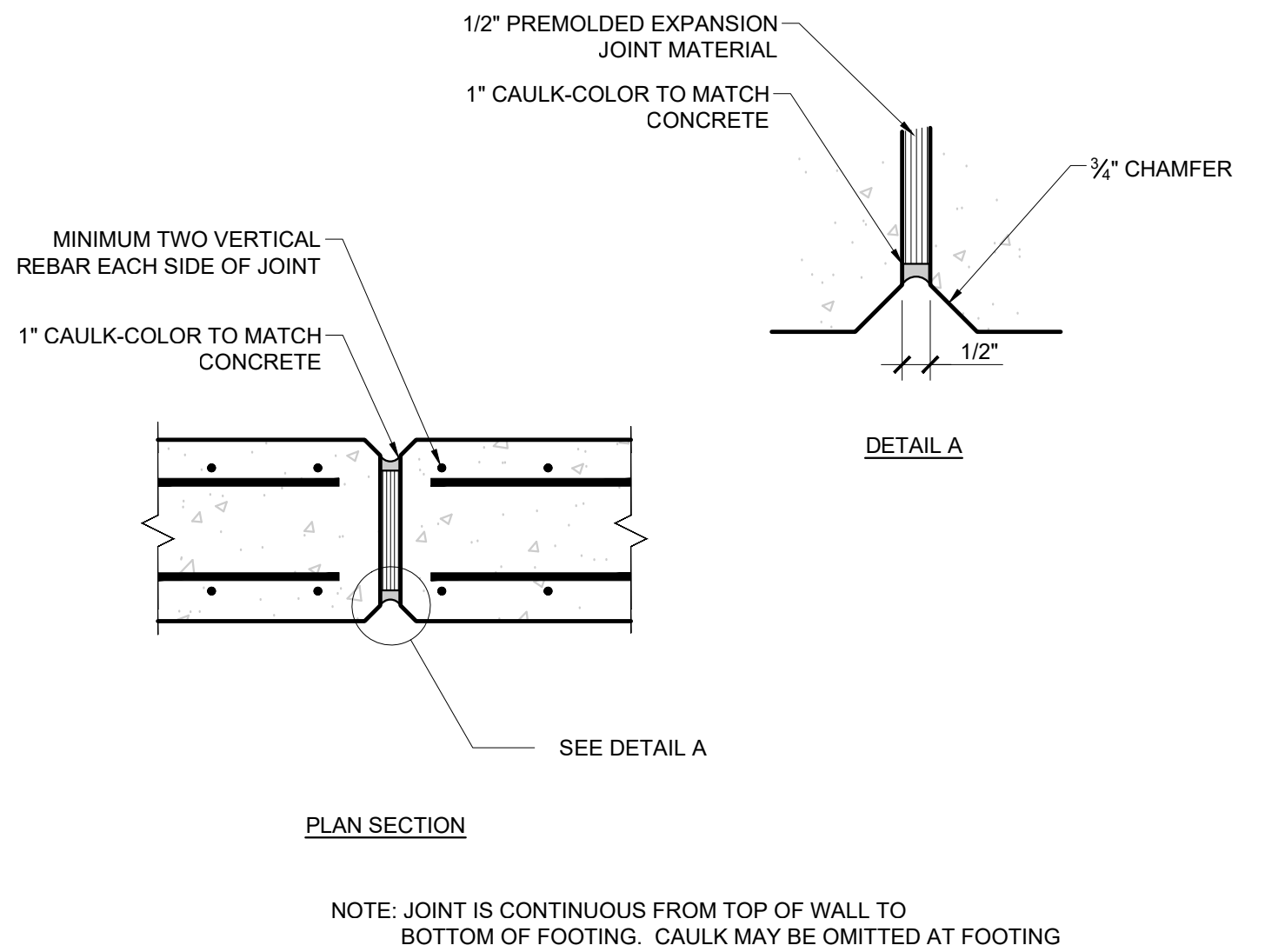
1. RETAINING WALLS SHALL BE CONSTRUCTED WITH A BACKDRAIN SYSTEM INCLUDING PERFORATED DRAIN PIPE SURROUNDED BY CALTRANS CLASS 2 TYPE A PERMEABLE MATERIAL WITH A MINIMUM WIDTH OF 12 INCHES AND EXTENDING FOR THE FULL HEIGHT OF THE WALL TO WITHIN 1 FOOT OF THE GROUND SURFACE. THE TOP OF THE PERMEABLE MATERIAL SHALL BE COVERED WITH COMPACTED NATIVE SOIL PLACED TO THE GROUND SURFACE.
2. PIPE FOR PERFORATED PIPES SHALL BE A MINIMUM OF 4 INCH RIGID SDR 35 PVC BELL AND SPIGOT TYPE CONFORMING TO ASTM D3034.
3. PIPE SHALL BE PERFORATED ONLY WHERE ENCAPSULATED IN PERMEABLE MATERIAL SHOWN ON THE DETAILS.
4. SOLID PIPE SHALL BE USED FOR CONNECTION TO POINTS OF DISCHARGE.
5. PERFORATIONS SHALL BE TWO ROWS OF 1/2 INCH DIAMETER HOLES. ROWS ARE 120 DEGREES APART, ROWS SHALL BE PARALLEL TO THE AXIS OF THE PIPE AND HOLES SHALL BE ON 5 INCH CENTERS PER ASTM D2729. PERFORATED DRAIN PIPE SHALL BE PLACED WITH THE SHORT SEGMENT BETWEEN THE TWO ROWS OF HOLES FACING DOWN.
6. FITTINGS SHALL BE RUBBER-RING GASKET-TYPE.
7. THE PERFORATED DRAIN PIPE SHALL BE INSTALLED WITHIN 3 INCHES OF THE BOTTOM OF THE PERMEABLE MATERIAL.
8. REFER TO LANDSCAPE PLANS FOR BACKDRAIN OUTLETS, CLEANOUTS AND CONNECTIONS TO SITE STORM DRAIN SYSTEM.

OBSERVATIONS AND INSPECTIONS

1. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE CITY STAFF, SPECIAL INSPECTION AND TESTING AGENCY AND ENGINEER OF REQUIRED INSPECTIONS AND OBSERVATIONS LISTED ON THESE PLANS AND OTHER CONTRACT DOCUMENTS. ADEQUATE ADVANCE NOTICE IS REQUIRED, 4 DAYS MINIMUM.
2. THE CONTRACTOR SHALL REVIEW THE APPROVED PLANS AND SPECIFICATIONS, BECOME AWARE OF THE SPECIAL INSPECTION REQUIREMENTS & SHALL KEEP THE APPROVED PLANS & SPECIFICATIONS AT THE PROJECT SITE FOR THE SPECIAL INSPECTOR AND BUILDING INSPECTOR'S USE.
3. STRUCTURAL OBSERVATION IS REQUIRED AT THE FOLLOWING CONSTRUCTION MILESTONES:
 - A. CONCRETE CONSTRUCTION: REINFORCING STEEL PLACEMENT PRIOR TO PLACING CONCRETE.
 - B. PROJECT COMPLETION: AT COMPLETION OF ALL WORK INDICATED ON THE STRUCTURAL DRAWINGS.
4. SPECIAL INSPECTION PER SECTION 1705 OF THE CALIFORNIA BUILDING CODE WILL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY APPROVED BY THE LOCAL JURISDICTION AND PAID FOR BY THE CITY FOR THE FOLLOWING AREAS OF WORK:
 - A. DURING THE PLACEMENT OF CONCRETE AND TAKING OF TEST SPECIMENS
 - B. REINFORCING STEEL PLACEMENT PRIOR TO PLACEMENT OF CONCRETE
 - C. EARTH EXCAVATIONS, GRADING AND FILLING AND FOUNDATION CONSTRUCTION
 - D. WELDS - PER AISC 360, SECTION N5, "MINIMUM REQUIREMENTS FOR INSPECTION OF STRUCTURAL STEEL BUILDINGS"
 - E. SEE SPECIAL INSPECTION AND TESTING AGREEMENT FOR COMPLETE LISTING OF TESTS AND INSPECTIONS

APPROVAL BY THE SPECIAL INSPECTOR DOES NOT MEAN APPROVAL OF FAILURE TO COMPLY WITH THE PLANS OR SPECIFICATIONS. ANY DETAIL THAT FAILS TO BE CLEAR OR IS AMBIGUOUS MUST BE REFERRED TO THE ENGINEER FOR INTERPRETATION OR CLARIFICATION PRIOR TO PERFORMING THE WORK.

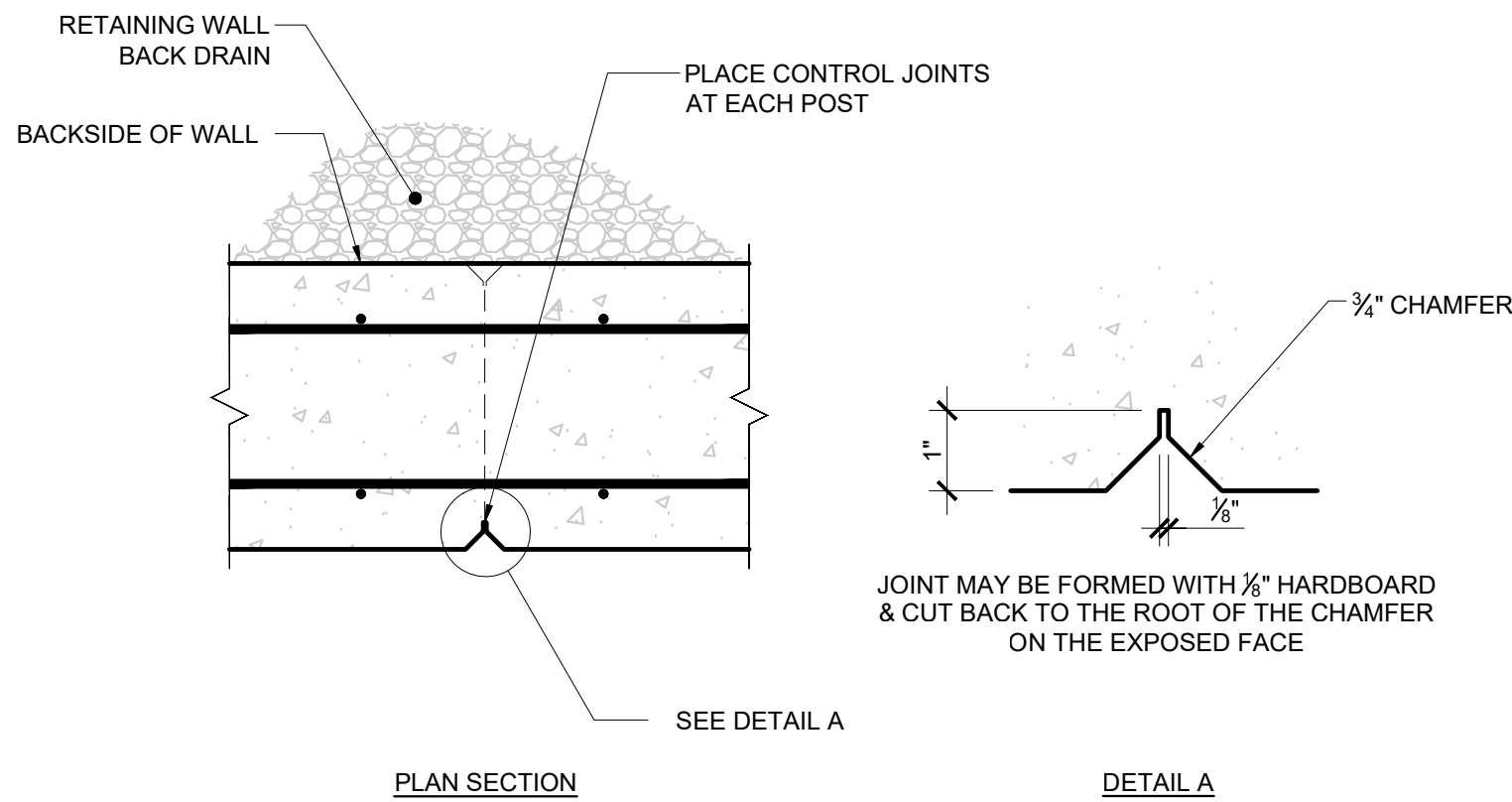
DIG ALERT
DIAL TOLL FREE
811
AT LEAST 2 DAYS
BEFORE YOU DIG



VERTICAL EXPANSION JOINT

SCALE: 1 1/2" = 1'-0"

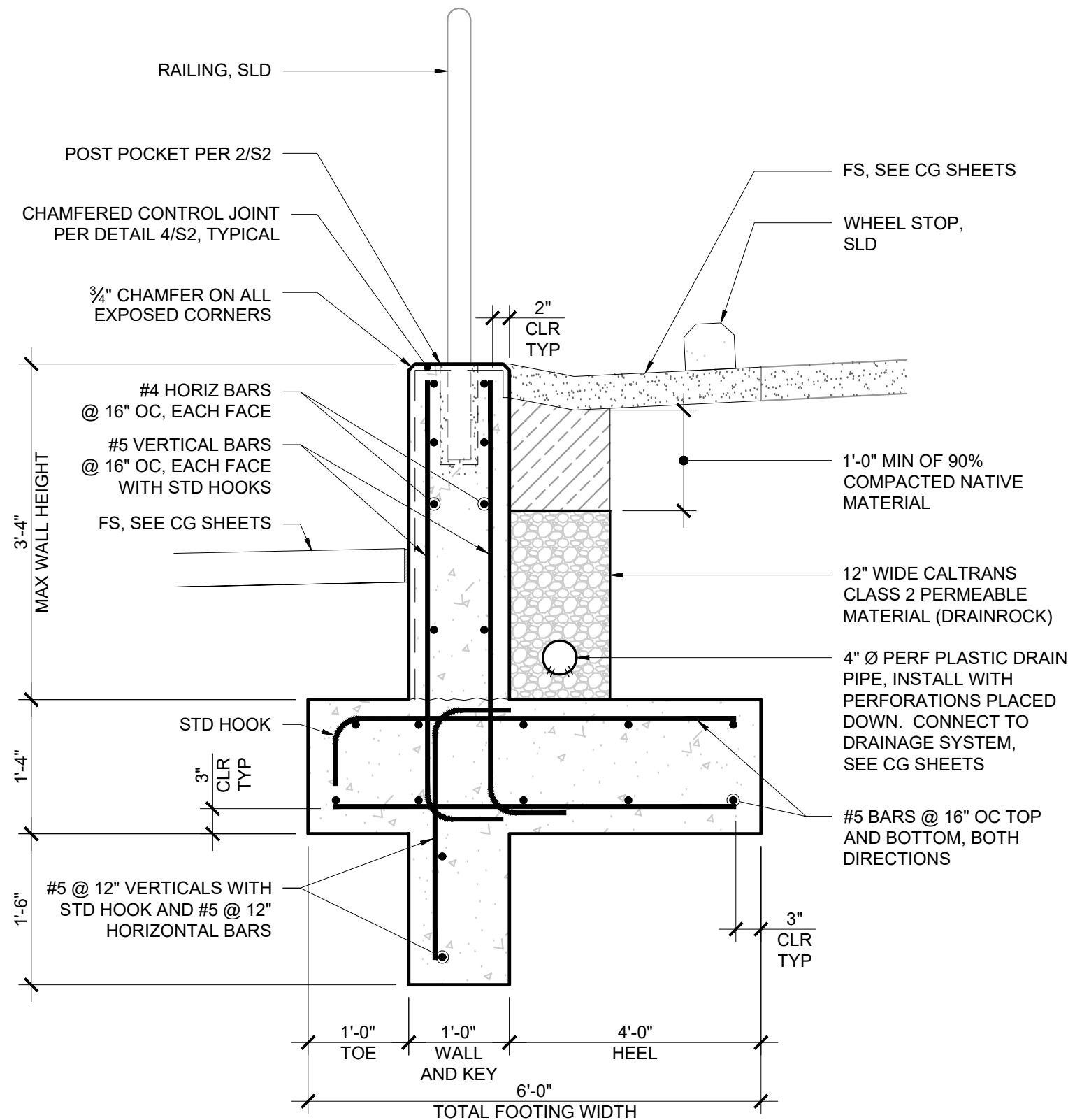
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VERTICAL CONTROL JOINT

SCALE: 1 1/2" = 1'-0"

4

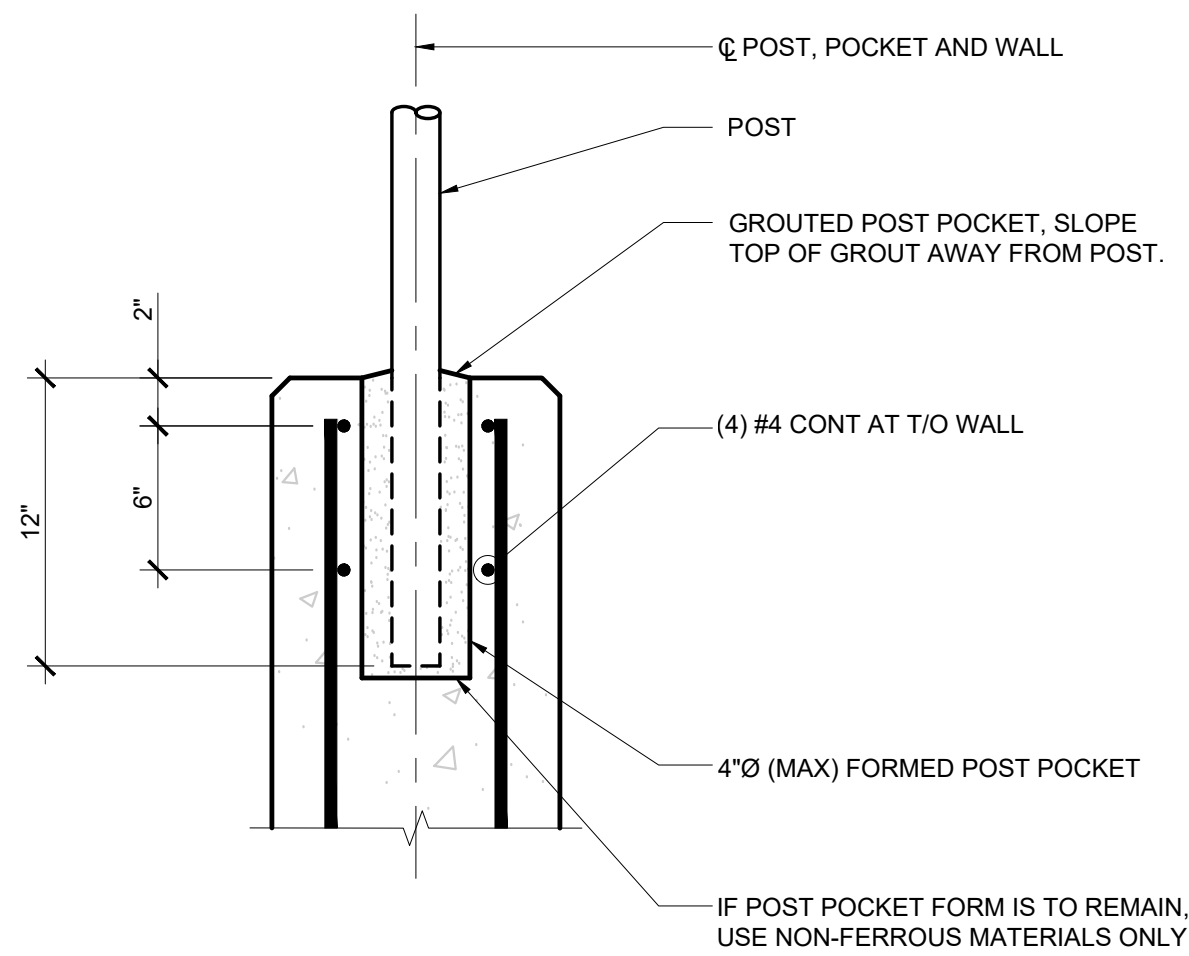


NOTE:
1. DRAIN ROCK SHALL BE PLACED IN MAXIMUM 2-FOOT LIFTS AND COMPACTED WITH FLAT VIBRATORY COMPACTOR.

RETAINING WALL

SCALE: 3/4" = 1'-0"

1



RAILING POST POCKET

SCALE: 1 1/2" = 1'-0"

2



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809 Center Street, Room 201
Santa Cruz, CA 95060

PACIFIC BEACH
ROUNDAABOUT ENHANCEMENTS
STRUCTURAL DETAILS

REFERENCES

FIELD BOOK:

DRAWING #:

DATE 02/24/2025

DRAWN EDD

DESIGN EDD/PD

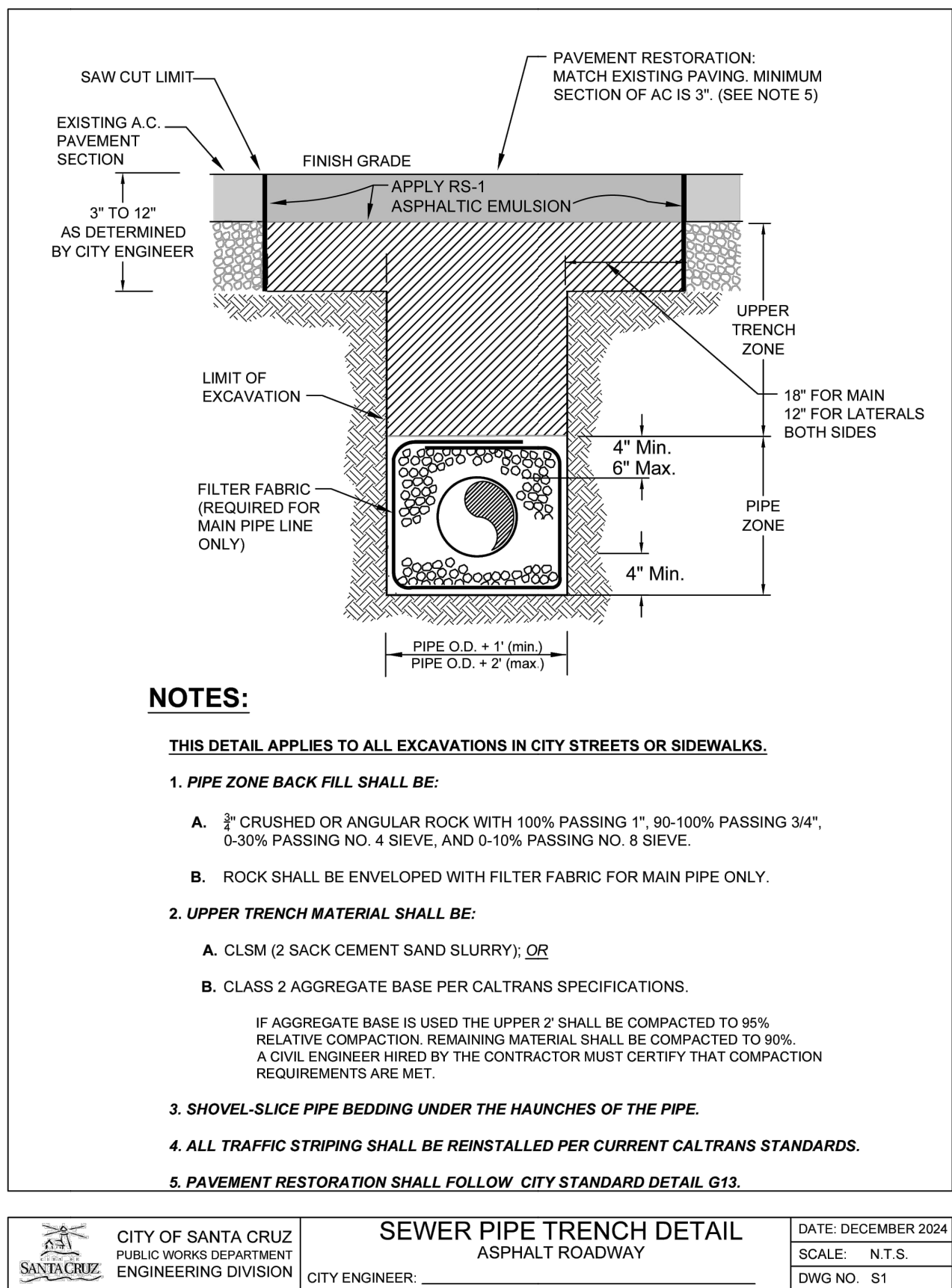
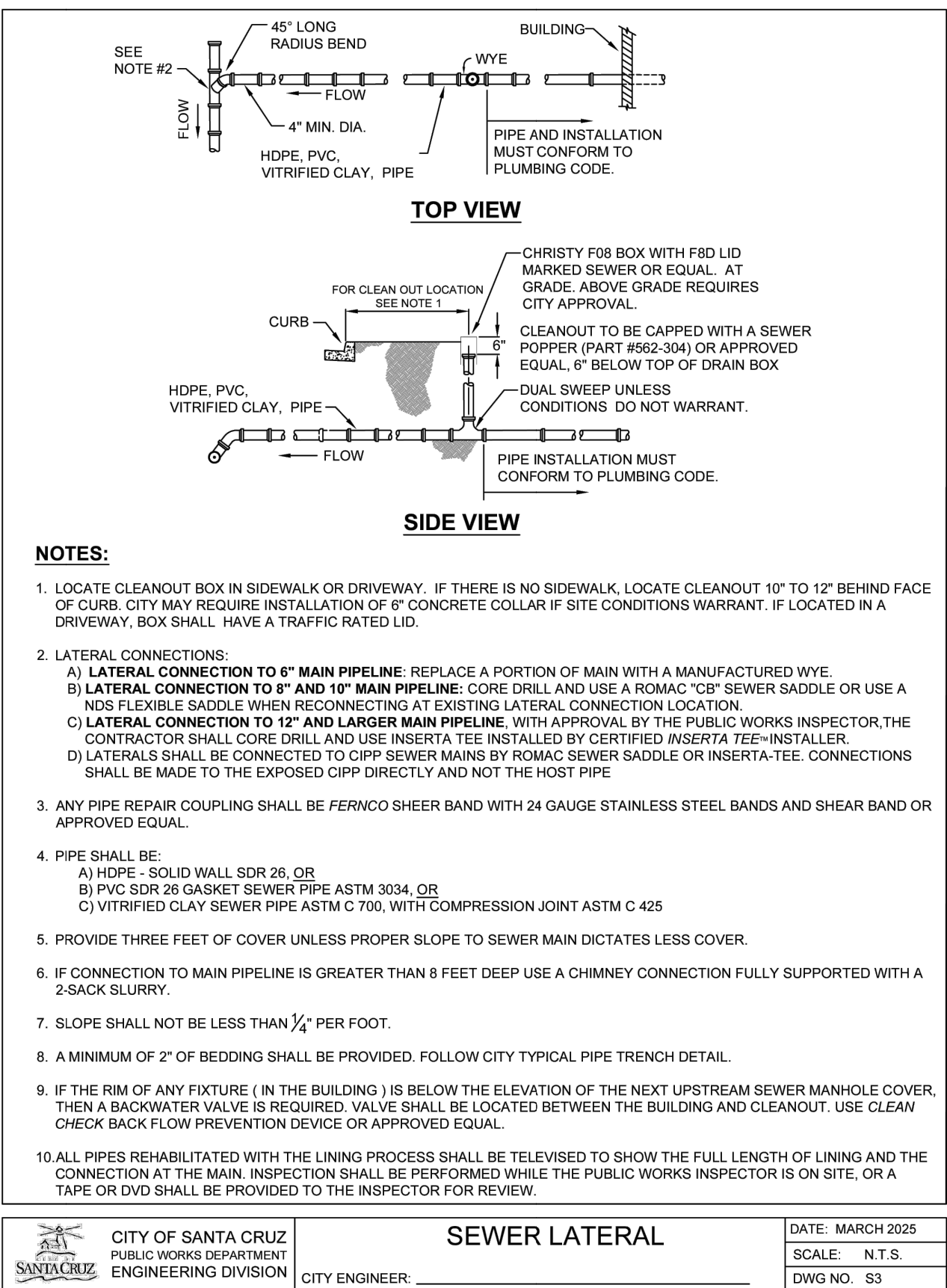
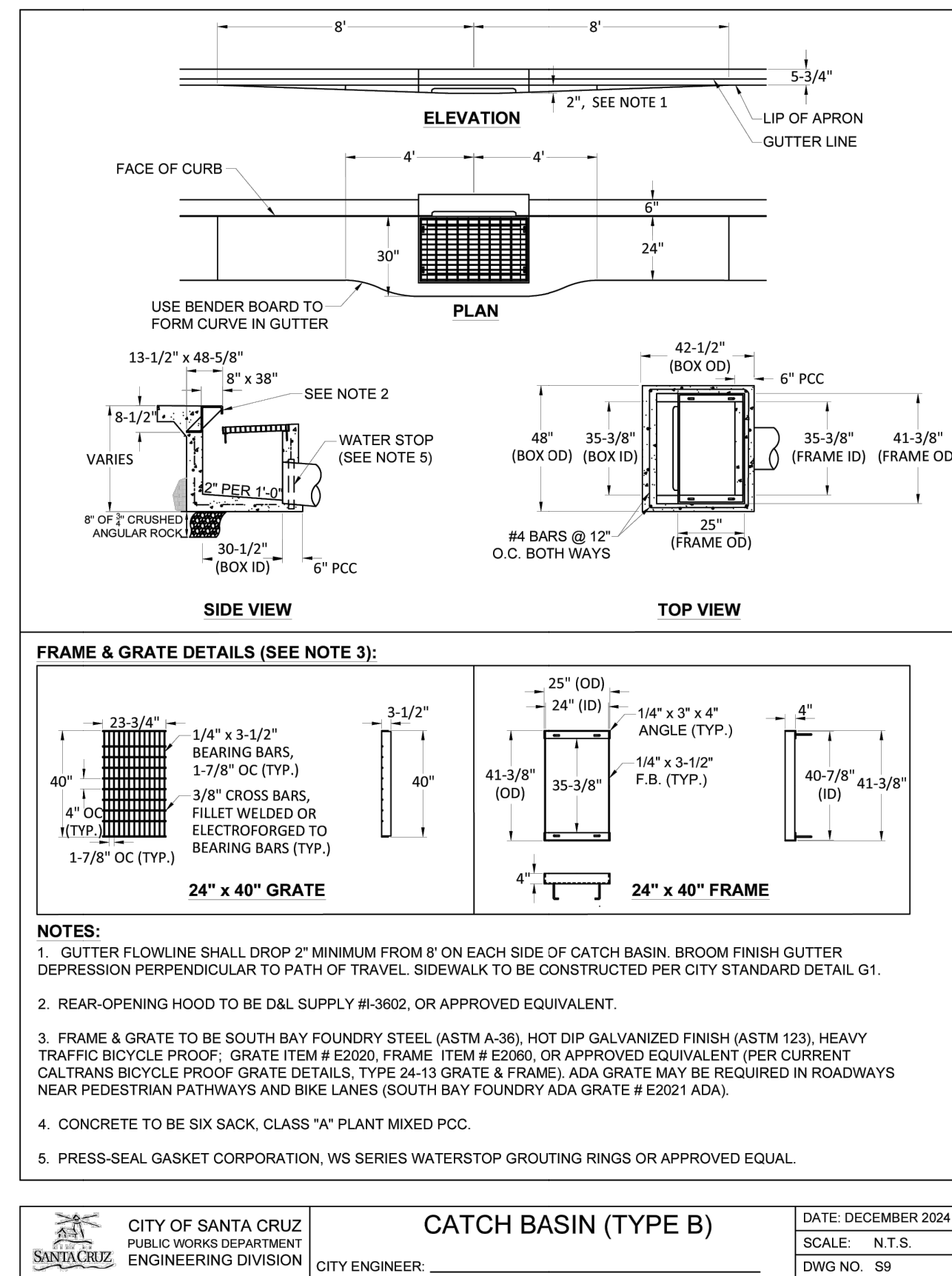
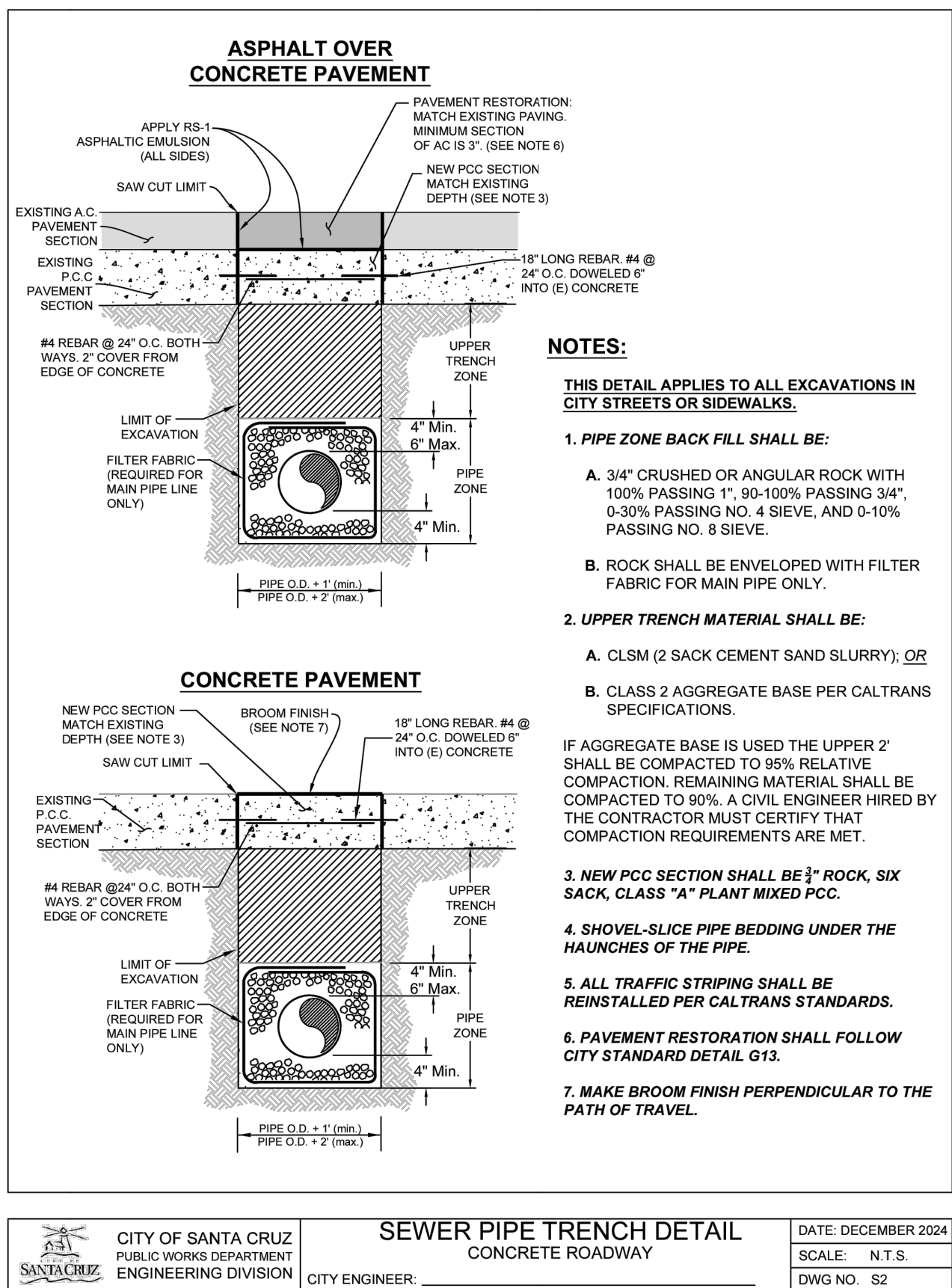
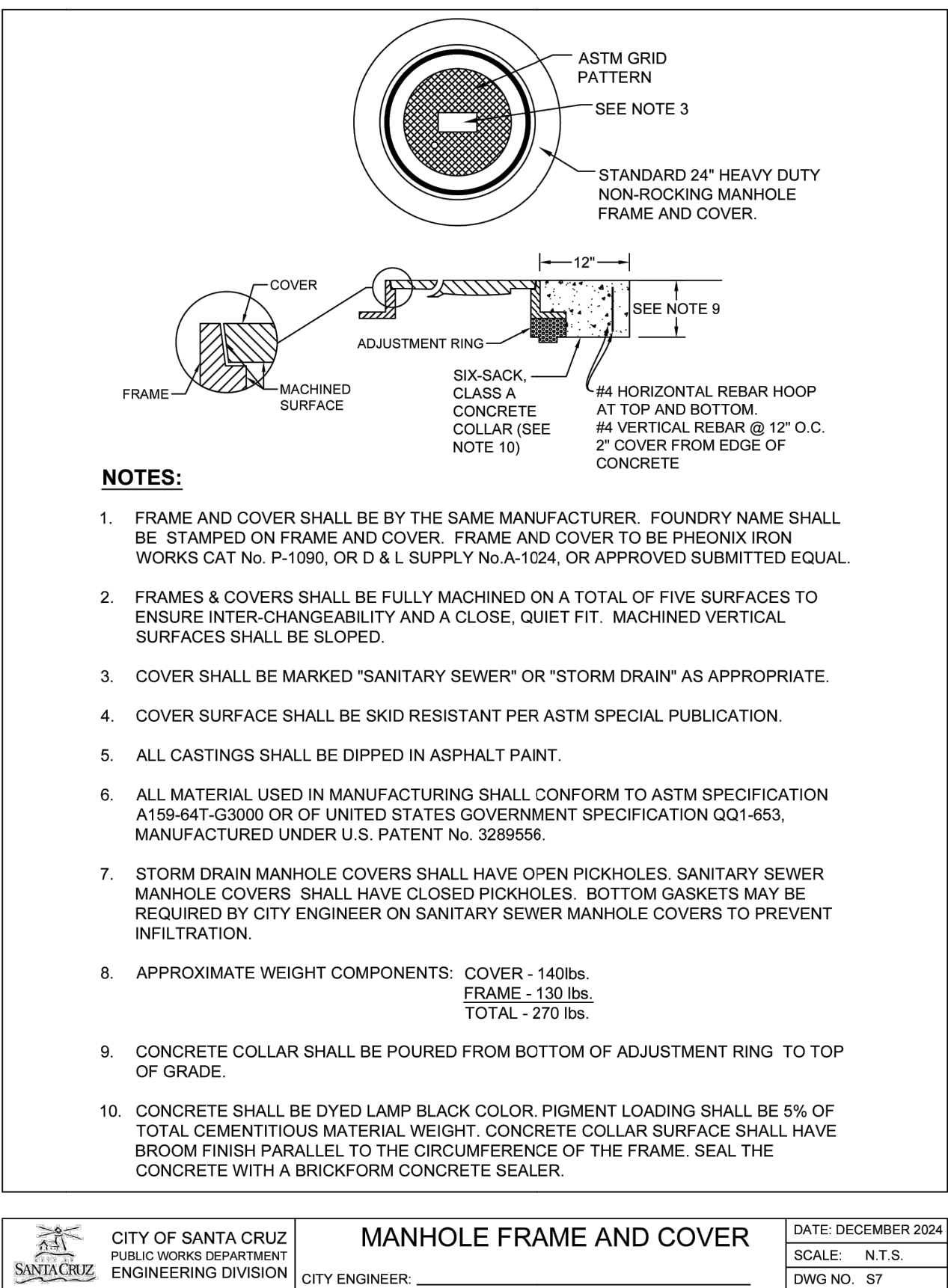
CHECKED

SCALE AS NOTED

S2

VAULT NO.

**AT LEAST 2 DAYS
BEFORE YOU DIG**



REFERENCES	DATE 02/24/2025	SCALE
FIELD BOOK:	DRAWN MMS	CD-1.01
DRAWING #:	DESIGN KS/MS	VAULT NO.
	CHECKED MS	7170



Diagram illustrating the components and dimensions of a pre-formed thermoplastic bike lane (green) pavement.

Dimensions and Components:

- 6'-0" (Total width of the bike lane section)
- 5'-0" (Width of the adjacent pavement section)
- 6" (Width of the dashed line)
- 24" (Spacing between curbs)
- 36" (Spacing between curbs)
- 24" (Spacing between curbs)

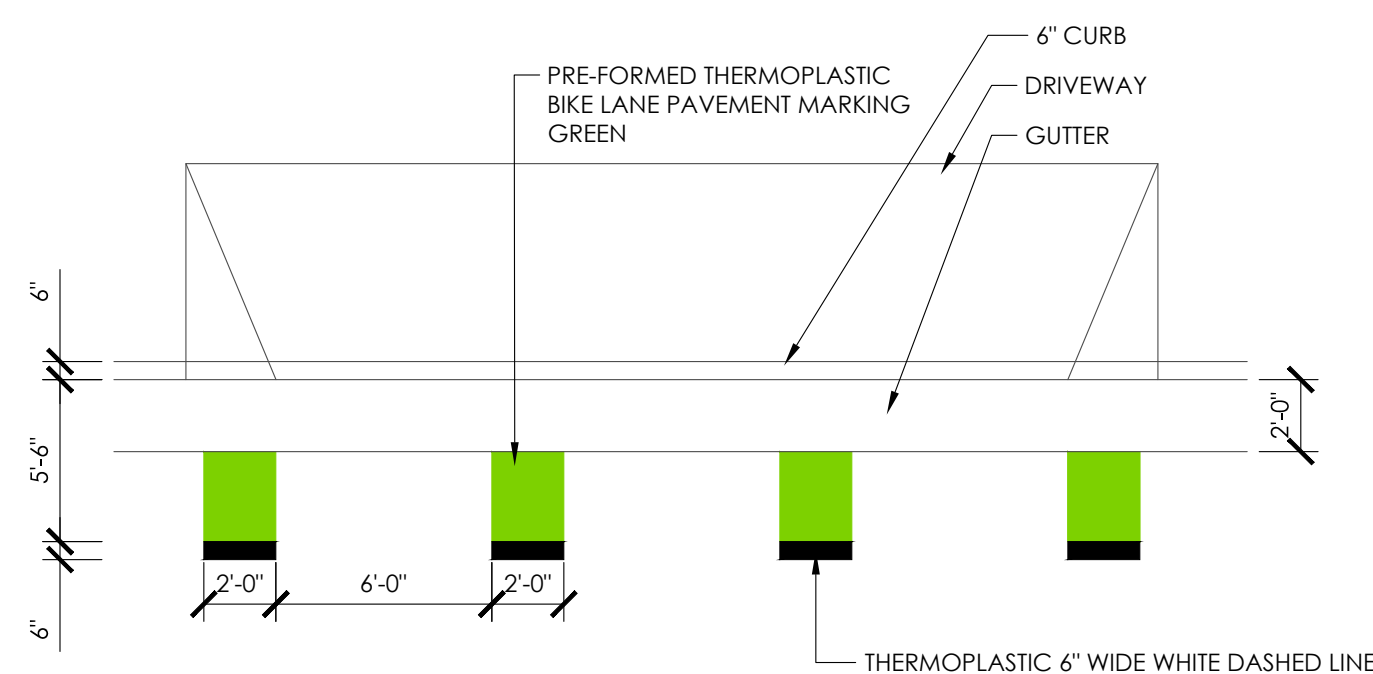
Labels and Materials:

- CONTINENTAL CROSSWALK, THERMOPLASTIC, WHITE, 2'-0" WIDE
- BIKE LANE ARROW, WHITE, PRE-FORMED IN PAVEMENT
- 6" WIDE DASHED LINE, WHITE, THERMOPLASTIC
- PRE-FORMED THERMOPLASTIC BIKE LANE (GREEN) PAVEMENT
- BIKE LANE SYMBOL WITHOUT PERSON, WHITE, PRE-FORMED IN PAVEMENT

NOTES:

- A. ALL STRIPING SHALL COMPLY WITH THE CALIFORNIA MUTCD STANDARDS
- B. ALL STRIPING AND MARKINGS SHALL MEET LATEST CALTRANS THERMOPLASTIC SPECIFICATIONS, INCLUDING GLASS BEAD RETROREFLECTIVITY AND THICKNESS.
- C. CAT TRACKING SHALL BE APPROVED BY THE CITY ENGINEER BEFORE INSTALLATION OF THERMOPLASTIC LINES AND MARKINGS.

3/16" = 1'-0" RRM-0001-0193.07-20



NOTES:

- ALL STRIPING SHALL COMPLY WITH THE CALIFORNIA MUTCD STANDARDS
- ALL STRIPING AND MARKINGS SHALL MEET LATEST CALTRANS THERMOPLASTIC SPECIFICATIONS, INCLUDING GLASS BEAD RETROREFLECTIVITY AND THICKNESS.
- CAT TRACKING SHALL BE APPROVED BY THE CITY ENGINEER BEFORE INSTALLATION OF THERMOPLASTIC LINES AND MARKINGS.

3/16" = 1'-0" RRM-0001-0193.07-65

SIGNAGE AND STRIPING (SI)		
CODE	DESCRIPTION	DETAIL
SI-01	BIKE LANE LINE CALTRANS DWG A20D DTL 39.	
SI-02	BIKE LANE ARROW CALTRANS DWG A24A.	
SI-03	BIKE LANE SYMBOL WITHOUT PERSON CALTRANS DWG A24C.	
SI-04	RIGHT EDGE LINE CALTRANS DWG A20B DTL 27B.	
SI-05	LEFT EDGE LINE CALTRANS DWG A20B, DETAIL 24.	
SI-06	LANE LINES CALTRANS DWG A20A DTL 9.	
SI-07	CHANNELIZER LINE CALTRANS DWG A20B DTL 38.	
SI-08	CROSSBIKE MARKINGS	B/SP-1.01
SI-09	GREEN THERMOPLASTIC MUTCD 1A14 MEMORANDUM.	
SI-10	6" YELLOW THERMOPLASTIC STRIPING 12" O.C.	
SI-11	6" WHITE THERMOPLASTIC, 24" O.C.	
SI-12	CLASS II STRIPING AT DRIVEWAY	A/SP-1.01
SI-13	TYPE I 18'-0" ARROW CALTRANS DWG A24A.	
SI-14	TYPE VI ARROW CALTRANS DWG A24A.	
SI-15	R9-7 SIGN FACE (DOUBLE SIDED) INSTALLED ON EXISTING STREETLIGHT.	
SI-16	R9-7 SIGN AND POST (DOUBLE SIDED) PER CITY STD. DWG T3.	
SI-17	YIELD LINE PER CALTRANS DWG A24G.	
SI-18	BIKE LANE LEFT ARROW CALTRANS DWG A20D DTL 39 (MODIFIED).	
SI-19	R15-8 SIGN FACE (DOUBLE SIDED) INSTALLED ON EXISTING RAILROAD SIGNAL MAST.	
SI-20	R1-2 SIGN FACE INSTALLED ON POST.	
SI-21	"YIELD" MARKING CALTRANS DWG A24D (4' TALL).	
SI-22	RAILROAD CROSSING MARKING CALTRANS DWG A24B (4' TALL).	
SI-23	W11-15 AND W16-7P (R) FLUORESCENT YELLOW-GREEN BACKGROUND COLOR INSTALLED ON EXISTING STREETLIGHT.	
SI-24	"SLOW" MARKING CALTRANS DWG A24D (4' TALL).	



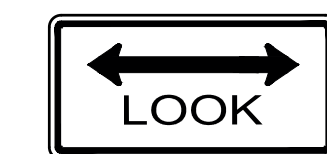
CAMUTCD R9-7
12" x 18"
SOUTH SIDE OF POST:
BIKES-L
PEDS-R



CAMUTCD R9-7
12" x 18"
NORTH SIDE OF POST:
PEDS-L
BIKES-R



CAMUTCD R1-2
18" x 18" x 18"
SOUTH SIDE OF POST



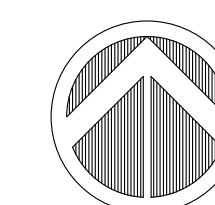
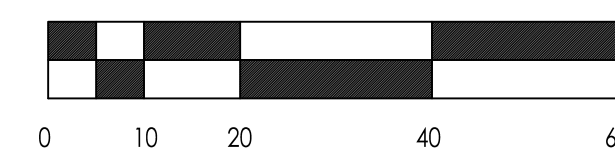
CAMUTCD R15-8
18" x 9"
NORTH AND SOUTH SIDE OF POST



CAMUTCD W11-15
30" x 30"
SOUTHWEST SIDE OF POST



CAMUTCD W16-7P (R)
30" x 18"
SOUTHWEST SIDE OF POST





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PACIFIC BEACH

ROUNABOUT ENHANCEMENTS

STRIPING AND SIGNAGE PLANS

REFERENCES
FIELD BOOK:
DRAWING #:
SP-0193-07

DATE	02/24/2025
DRAWN	MS
DESIGN	KS/MS
CHECKED	MS

SCALE	AS SHOWN
SP-1.01	
Vault No.	7170

DIG ALERT
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811

AT LEAST 2 DAYS
BEFORE YOU DIG

MINIMUM WARNING TIME	20 SEC.
BUFFER TIME	5 SEC.
CLEARANCE TIME	12 SEC.
EQUIPMENT REACTION TIME	5 SEC.
TOTAL APPROACH TIME	42 SEC.

618'
37 SEC. @ 10 MPH
INCLUDES 5 SEC. EQPT REACTION TIME

618'
37 SEC. @ 10 MPH
INCLUDES 5 SEC. EQPT REACTION TIME

- CONTRACTOR NOTES
1. CONTRACTOR TO INSTALL 1 (ONE) 2'X3' PB

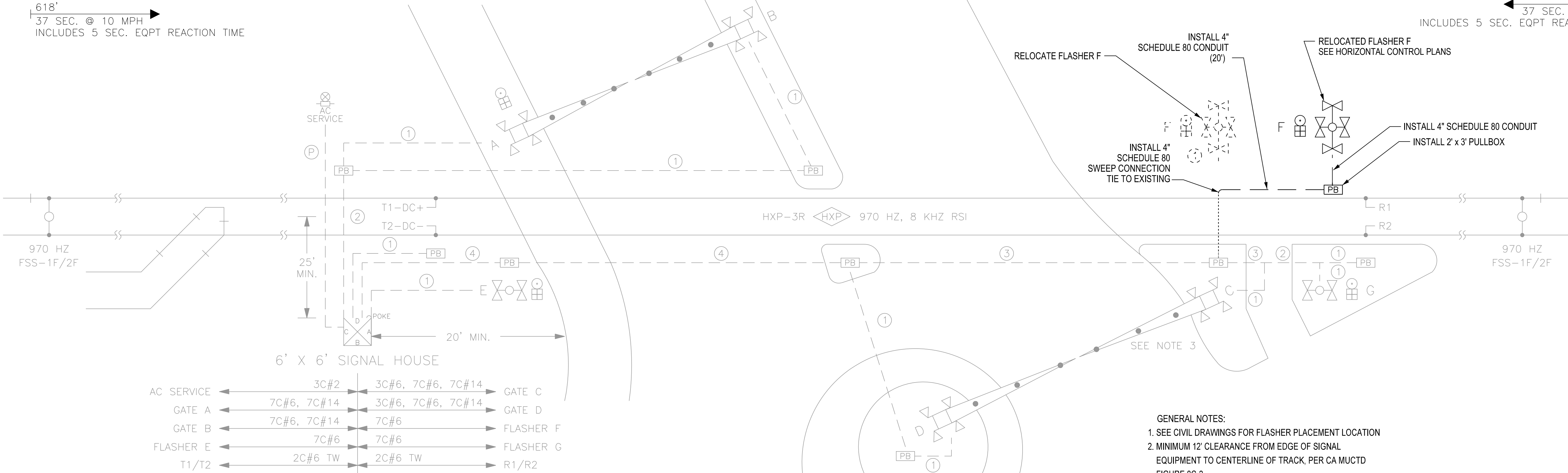
2. CONTRACTOR TO CONNECT TO EXISTING CONDUIT UNDER STREET, ELBOW AND EXTEND TO NEW PB FOR FLASHER F

3. CONTRACTOR TO REMOVE EXISTING 7C#6

CONTRACTOR TO RUN NEW 7C#6 CABLE FROM MTB TO NEW FLASHER F, NEW CABLE MUST EXTEND TO EXISTING TERMINATION. CABLE SPLICING IS NOT ACCEPTABLE.

INSTALL NEW GALV 48" PYRAMID FOUNDATION, TOP LEVEL WITH SIDEWALK FS DEMO EXISTING SIGNAL FOUNDATION, REMOVE COMPLETELY RESTORE CONCRETE SIDEWALK IN ACCRODANCE WITH CIVIL PLANS. INSTALL NEW GROUND ROD (TO BE LOCATED IN THE NEW PB). CONNECT #6 BARE SOFT DRAWN COPPER TO EXISTING SIGNAL PIG TAIL OR GROUND STUD. EXOTHERMIC WELD (ERICO ONE-SHOT OR EQUIVALANT) TO GROUND ROD.

4. REFER TO CONSTRUCTION DRAWINGS FOR ACTUAL DIMENSIONS, SIGNAL PLANS INTENTIONALLY LINE DIAGRAMS ONLY



- ⊗ - 4" SCH 80 PVC CONDUIT; "X" = # OF CONDUITS
- Ⓟ - (1) 2" SCH 80 CONDUIT

- GENERAL NOTES:
1. SEE CIVIL DRAWINGS FOR FLASHER PLACEMENT LOCATION

2. MINIMUM 12' CLEARANCE FROM EDGE OF SIGNAL EQUIPMENT TO CENTERLINE OF TRACK, PER CA MUCTD FIGURE 8C-2

3. ENSURE COMPACTION TO 90% MINIMUM PROCTOR OR AS REQUIRED BY CIVIL PLAN. IN CASE OF CONFLICT CIVIL SPECIFICATION WILL PREVAIL.

4. COORDINATE WITH RAILROAD FOR FLASHER HEAD ALIGNMENT & SIGHTING

5. PERFORM AND COMPLY AT MINIMUM WITH 49 CFR 234 SPECIFICALLY 234.249 GROUND TESTS, 234.253 FLASHING LIGHT UNITS AND LAMP VOLTAGES 234.257 WARNING SYSTEMS OPERATION, 234.267 INSULATION RESISTANCE TEST COORDINATE WITH RAILROAD TO INSURE INSPECTIONS AND TESTS MEET THEIR REQUIRMENTS PER 234.273 AND ANY OTHER APPLICABLE CFR TESTING REQUIRMENTS AND SIGNAL TESTING PROCEDURES.

- FOUNDATION NOTES:
1. INSTALL 48" HIGH GALVANIZED FLASHER PYRAMID FOUNDATION (9-1/2" & 11-11/16" BOLT SPACING) WITH LEVELING HARDWARE (1" DIAMETER LEVELING BOLT KIT FOR 11-11/16" SPACING ONLY) HARDWARE TO BE ZINC YELLOW FINISH OR STAINLESS STEEL. INSTALL RODENT COVER ON BASE.

ZEPHYR RAIL



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32342 Camino Capistrano, Ste. 205
San Juan Capistrano, CA 92675

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PACIFIC BEACH
ROUNDAABOUT ENHANCEMENTS
RAILROAD SIGNAL LAYOUT

REFERENCES

FIELD BOOK:

DRAWING #:

DATE FEBRUARY 24, 2025

DRAWN

DESIGN

CHECKED

ZEPHYR

ZEPHYR

J. SPELLMAN

SCALE NONE

RRS-01

VAULT NO.

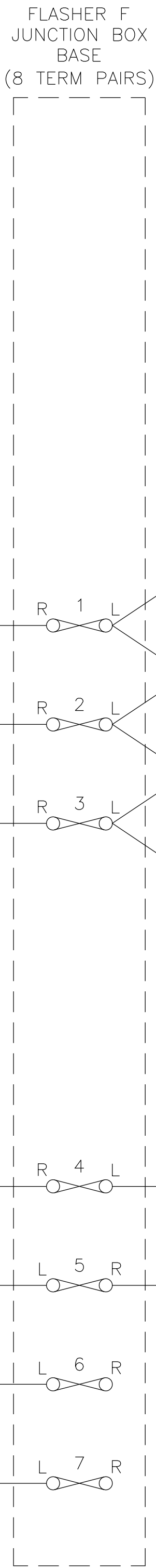
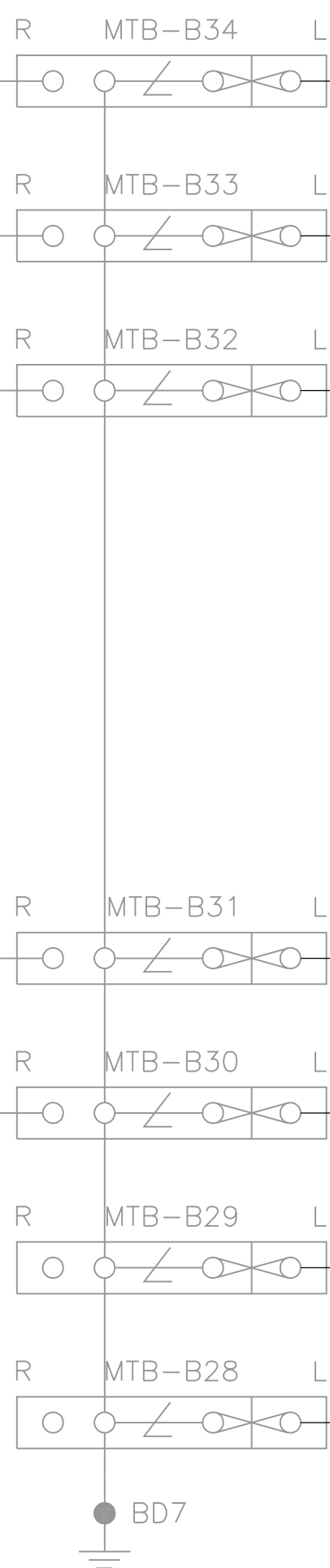
DIG ALERT
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811

AT LEAST 2 DAYS
BEFORE YOU DIG

CONT. ON
AS BUILT
DRAWING RR-10
NOT PART
OF THIS
PROJECT

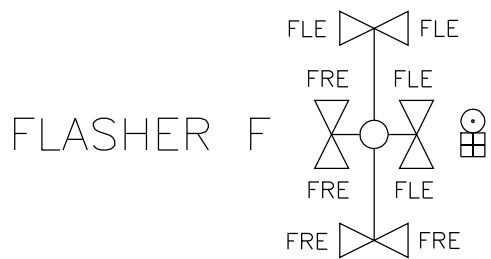
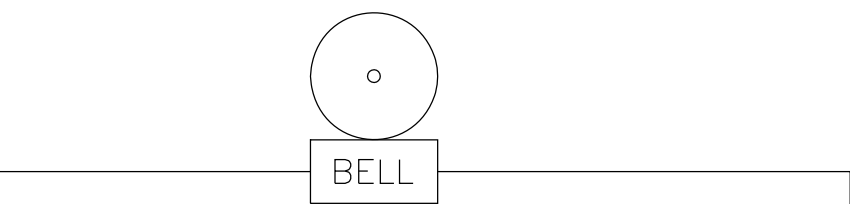
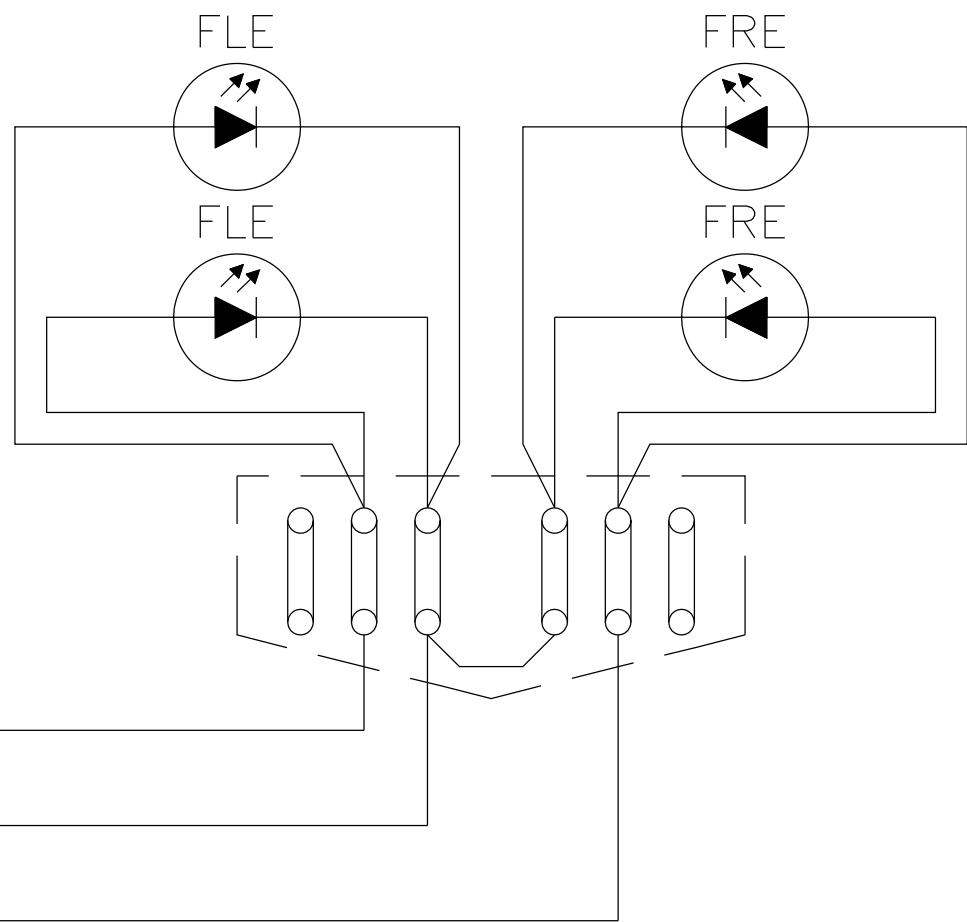
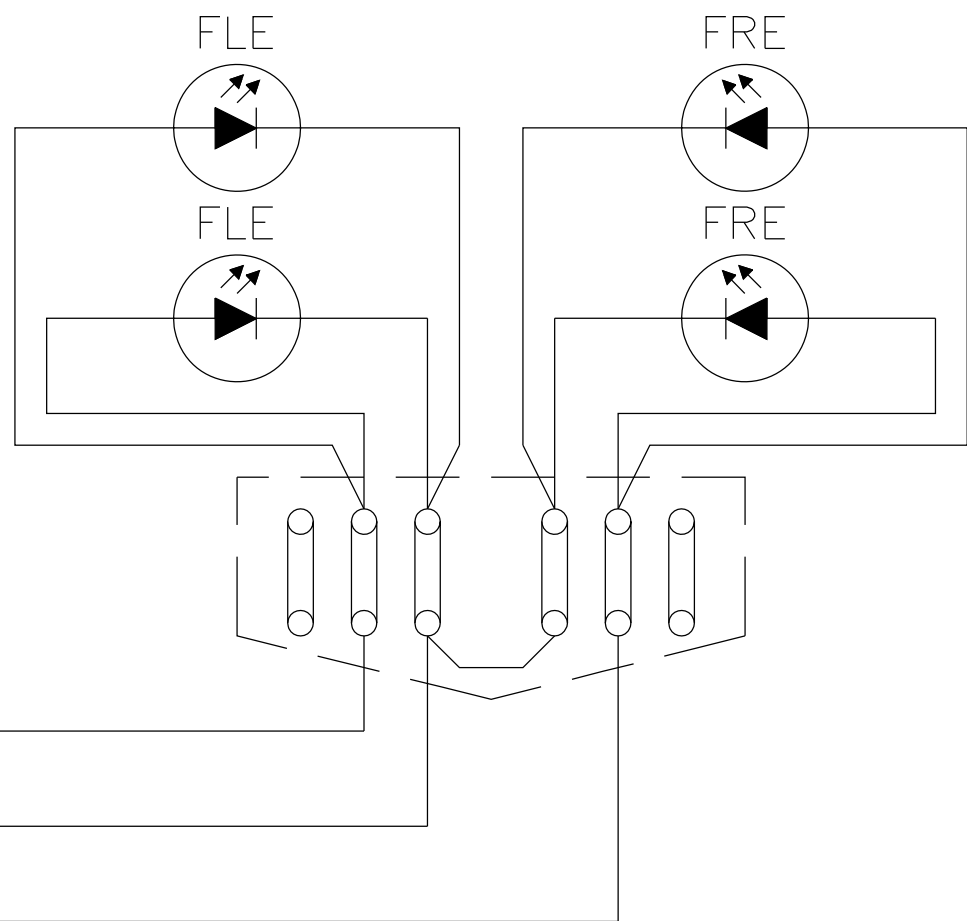
- NOTES:
1. ALL WIRING TO BE #10 AWG, UNLESS OTHERWISE NOTED.
 2. GROUND WIRES TO BE GREEN #6 AWG.



2LE-F
1LE-F
2CE-F
1CE-F
2RE-F
1RE-F

SIDE
LIGHTS

MAIN
LIGHTS



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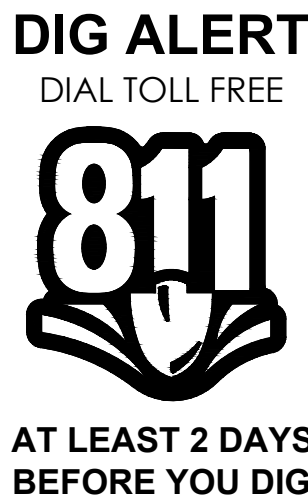
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809 Center Street, Room 201
Santa Cruz, CA 95060

PACIFIC BEACH
ROUNDAABOUT ENHANCEMENTS
RAILROAD FLASHER F CIRCUITS

REFERENCES
FIELD BOOK:
DRAWING #:

DATE	FEBRUARY 24, 2025
DRAWN	ZEPHYR
DESIGN	ZEPHYR
CHECKED	J. SPELLMAN

SCALE	NONE
	RRS-02
Vault No.	



GENERAL NOTES

1. CODE COMPLIANCE: ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS, AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADDED EDITIONS (IN EFFECT AT TIME OF BUILDING PERMIT APPLICATION) OF THE FOLLOWING PUBLICATIONS:
 - A. CALIFORNIA CODE OF REGULATIONS TITLE 24; INCLUDES 2022 CALIFORNIA ELECTRICAL CODE, 2022 CALIFORNIA FIRE CODE, 2022 CALIFORNIA BUILDING CODE, ETC. WITH LOCAL AMENDMENTS AS APPLICABLE.
 - B. AMERICANS WITH DISABILITIES ACT (ADA).
2. SAFETY: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORKPERSONS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF NEGLIGENT SAFETY PRACTICES, WHICH MAY CAUSE INJURY TO OTHERS ON OR NEAR THE JOB SITE.
3. FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN THE CALIFORNIA BUILDING CODE CHAPTER 7. CONTRACTOR SHALL PROVIDE AND INSTALL PHYSICAL ENCLOSURE AROUND FIXTURES, PANELS, ETC. AS REQUIRED. ALL ASSEMBLIES TO BE PENETRATED SHALL BE INSTALLED WITH APPLICABLE THROUGH-PENETRATION FIRESTOP SYSTEM AS DETERMINED BY UL CLASSIFICATION. BEFORE CONSTRUCTION, VERIFY AND COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.
4. MOUNTING HEIGHTS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
 - +15" AFF: RECEPTACLES, TELEPHONE, TV & DATA OUTLETS, (MEASURED BOTTOM OF OUTLET BOX)
 - +46" AFF: OUTLET ABOVE COUNTER (MEASURED TOP OF OUTLET BOX)
 - +48" AFF: LIGHT SWITCHES, (MEASURED TOP OF OUTLET BOX)
 - +48" AFF: FIRE ALARM MANUAL PULL STATIONS, T-STATS, (MEASURED TOP OF OUTLET BOX)
 - THE LOWER OF +80" AFF TO BOTTOM OF LENS, OR 6" BELOW CEILING: FIRE ALARM VISUALS.

ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHT AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM. [CBC 11B-308.1.1]

ELECTRICAL RECEPTACLE OUTLETS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM [CBC 11B-308.1.2]

BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, ETC. WITH ARCHITECT OR OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND IN BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL SHEETS SHALL GOVERN.

5. LABEL PANELS, CABINETS, BACKBOARDS, MAIN DEVICES, SAFETY SWITCHES, CONTACTORS AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT SHOWN ON PLANS. USE ENGRAVED LAMINATED PLASTIC NAMEPLATES ATTACHED BY SCREWS OR RIVETS. FOR FEEDERS, NEATLY AND INDIVIDUALLY LABEL CONDUIT DESTINATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNATED ENCLOSURES, STRUCTURES OR EQUIPMENT (INCLUDING PULL AND SPLICE BOXES).
6. EQUIPMENT ANCHORAGE NOTE
ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN THE 2022 CBC, SECTIONS 1613A AND 1616A AND ASCE 7-10 SECTIONS 13.3, 13.4 & 13.6.

THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS PER 2022 CBC SECTION 1616A.1.18:

- A. FURNITURE/EXCEPT STORAGE CABINETS AS NOTED IN 2022 CBC TABLE 13.5-1)
- B. TEMPORARY OR MOVABLE EQUIPMENT WITH EXCEPTIONS NOTED IN 2022 CBC SECTION 1616A.1, 18 ITEM 2.
- C. ARCHITECTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS IN SEISMIC DESIGN CATEGORIES D, E, OR F THAT MEET ALL OF THE CRITERIA LISTED IN 2022 SECTION 1616A.1, 18 ITEM 3.
- D. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUPPORTED BY VIBRATION ISOLATORS.
- E. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, AND 13.6.5.5, ITEM 6, RESPECTIVELY.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS WITH AN OPA#, SUCH AS MASON INDUSTRIES (OPA 349), OR ISAT (OPA 485) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE ON THE JOBSITE PRIOR TO STARTING HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

CONVENTIONS

X NUMBERED SHEET NOTES: REFERS TO NOTES ON SAME SHEET AS REFERENCE

DETAIL REFERENCE:
-DETAIL DESIGNATION
-SHEET NUMBER REFERENCE

FEEDER SCHEDULE DESIGNATION
(EXAMPLE: 3103 = 310 AMPERE, 600V,
3 CURRENT CARRYING CONDUCTORS,
PREFIXES: 'M' INDICATES MEDIUM VOLTAGE,
'CO14' INDICATES CONDUIT ONLY,
QUANTITY (1) AND SIZE (4"))

	EMERGENCY FIXTURE
	POLE LIGHT
	POLE LIGHT- DECORATIVE
	UPLIGHT- FLUSH IN GRADE
	BOLLARD
	TANDEM-WIRED LAMPS
	UNDERCABINET LIGHT
	WALL SURFACEMOUNT LINEAR
	PENDANT LINEAR FIXTURE
	RECESSED WALLMOUNT
	WALLPACK
	EXIT LIGHT- WALL
	EXIT LIGHT- CEILING
	LETTER ADJACENT INDICATES FIXTURE TYPE

LEGEND

NOTE: INTERPRET IN CONTEXT

LIGHT FIXTURES

- | | | | |
|---|--|---|---------------------------------|
|  | CEILING SURFACEMOUNT |  | SINGLE RECEPT. |
|  | WALL SURFACEMOUNT |  | DUPLEX RECEPT. |
|  | PENDANT MOUNT |  | DUPLEX- HALF SWITCHED |
|  | RECESSED DOWNLIGHT |  | DOUBLE DUPLEX, HALF SWITCHED |
|  | RECESSED WALLWASH |  | DOUBLE DUPLEX |
|  | RECESSED FIXTURE |  | SPECIAL CONFIGURATION |
|  | SURFACE FIXTURE |  | FLOORMOUNT 208V, 1Ø RECEPT |
|  | STRIP FIXTURE |  | DUPLEX- FLOOR OUTLET |
|  | TRACK LIGHT |  | GROUND FAULT CIRCUIT INTERRUPT |
|  | DIRECTIONAL FLOOD |  | MOUNTED ABOVE COUNTER |
|  | EMERGENCY FIXTURE |  | JUNCTION BOX |
|  | POLE LIGHT |  | TELEPHONE OUTLET |
|  | POLE LIGHT- DECORATIVE |  | DATA OUTLET |
|  | UPLIGHT- FLUSH IN GRADE |  | PHONE/DATA COMBO OUTLET |
|  | BOLLARD |  | MOUNTED ABOVE COUNTER |
|  | TANDEM-WIRED LAMPS |  | TELEVISION OUTLET |
|  | UNDERCABINET LIGHT |  | SAFETY DISCONNECT |
|  | WALL SURFACE MOUNT LINEAR TYPE |  | DROP CORD RECEPT |
|  | PENDANT LINEAR FIXTURE |  | ABOVE-CLG.MOUNT J-BOX |
|  | RECESSED WALLMOUNT |  | VLT-FLt-MOUNT |
|  | WALLPACK |  | TELEPHONE FLOOR OUTLET |
|  | EXIT LIGHT- WALL |  | DATA FLOOR OUTLET |
|  | EXIT LIGHT- CEILING
(ARROW INDICATES DIRECTION) |  | PHONE/DATA COMBO FLOOR OUTLET |
|  | LETTER ADJACENT INDICATES
FIXTURE TYPE |  | INTERMEDIATE DISTRIBUTION FRAME |
| | |  | MAIN DISTRIBUTION FRAME |
| | |  | ACCESS POINT |

POWER/COMM.

CONDUIT/WIRE

- NEW
- UNDERGROUND
- ⚡ NEW POWER HOMERUN (3 HOTS & NEUT SHOWN)
- ISOLATED GROUND
- EXISTING TO REMAIN
- (E) POWER HOMERUN
- WIRE LINE- CONTINUES
- CONDUIT STUB (W/MARKER)
- VERTICAL CONDUIT RUN
- CONDUIT SEAL
- FLEXIBLE CONNECTION
- LOW VOLTAGE
- SURFACEMOUNT RACEWAY
- INDICATES LINE CONTINUES
- CORD W/PLUG

MISCELLANEOUS

- | | |
|---|---------------------------|
|  | MOTOR |
|  | THERMOSTAT |
|  | CIRCUIT BREAKER |
|  | FUSIBLE SWITCH |
|  | GROUND |
|  | PHASE |
|  | CLOCK |
|  | CLOCK/SPEAKER COMBINATION |
|  | WALL MOUNTED CLOCK |
|  | PUSHBUTTON |
|  | FLUSHMOUNT PANEL |
|  | SURFACEMOUNT PANEL |
|  | FLUSHMOUNT CABINET |
|  | SURFACEMOUNT CABINET |
|  | DAMPER MOTOR |
|  | HUMIDISTAT |
|  | MAGNETIC CONTACTOR |
|  | COMBINATION STARTER |

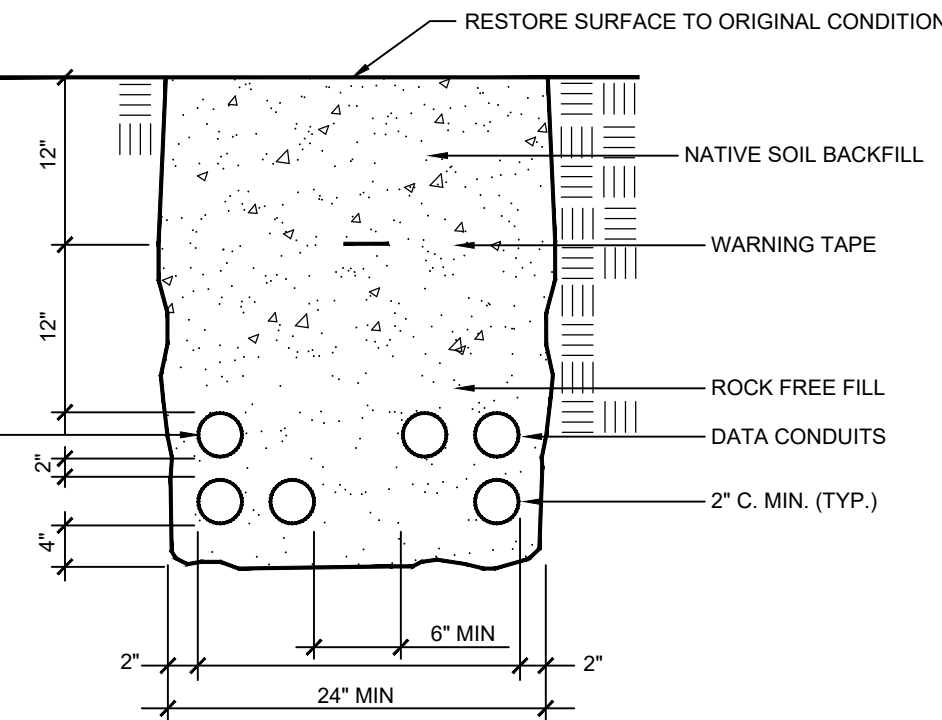
ABBREVIATIONS

AMPERE	FBO	FURNISHED BY OTHERS	OC	ON CENTER
AMP BREAKER	FC#	FAN COIL	OC	OVERCURRENT PROTECTION
ABANDONED	FLA	FULL LOAD AMPS	OC	OUTSIDE DIAMETER
ABV	FLR	FLOOR	OH	OVERHEAD
AC	FLUR	FLOURESCENT	OSA	OFFICE OF THE STATE ARCHITECT
AC#	FS	FUSIBLE SWITCH	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT
ADJUTANT	FVNR	FULL VOLTAGE NON-REVERSING	OVL	OVERLOAD
AMP FUSE, AMP FRAME	G	GROUNDING CONDUCTOR	P	POLE
AFF	GD	GENERAL CONTRACTOR	PA	PUBLIC ADDRESS
ABOVE FINISH FLOOR	GD	GARBAGE DISPOSAL	PB	PULL BOX
ABOVE FINISH GRADE	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	PC	PULL CHAIN
AMPERES INTERRUPTING CAPACITY	GFI	GROUND FAULT CIRCUIT INTERRUPTER	PC	PHOTOCELL
AL			PC	PLUMBING CONTRACTOR
ALUMINUM			PC	PHASE
AMP SWITCH RATING	GND	GROUND	PNL	PANEL
AUTOMATICS TIME SWITCH	GRS	GALVANIZED RIGID STEEL	POS	POINT OF CONNECTION
AUTOMATIC TRANSFER SWITCH	GWS	GANG WITH SWITCH	PPC	POWER PRIMARY
AV	H	HEIGHT, HWS	PS-	POWER SECONDARY
AWG	HACR	HEATING, AC & REFRIG	PV	PHOTOVOLTAIC
BUILDING	HID	HIGH INTENSITY DISCHARGE	RELOC	RELOCATED(I)
BELT	HOUT	HIGH OUTPUT	RECEPT	RECEPTACLE
BELDGO	HOA	HAND-OFF-AUTO	REF	REFRIGERATOR
C	HO	HORSEPOWER	REQ	REQUIRED
CABINET	HPF	HIGH POWER FACTOR	RAT	RATED LOAD AMPS
CABT	HPS	HIGH PRESSURE SODIUM	RM	ROOM
CATV	IC	INTERCOM	RMC	RIGID METAL CONDUIT
CB	ID	IDENTIFICATION	RMV	REMOVE
CBC	IDF	INTERMEDIATE DISTRIBUTION	RL	REPLACE
CCE	IF	INSIDE FROST	RS	RAPID START
CA. BUILDING CODE	IG	ISOLATED GROUND	SC	SIGNAL CABINET
CA. ELECTRICAL CODE	J	JUNCTION BOX	SCC	SHORT CIRCUIT CURRENT
CA. ENERGY COMMISSION	K	QUANTITY 1000	SFM	STATE FIRE MARSHAL
CA. CONDUCT FLUORESCENT	kVA	KILOVOLTSAMPS	SHT	SHEET
CF	KW	KILOWATT	SL	SLIMLINE SWITCH LEG
CFCC	L	LIGHTING CONTACTOR	SPEC	SPECIFICATION
CLG	LP	LOW PRESSURE SODIUM	SPST	SINGLE POLE SINGLE THROW
CL	LRA	LOCKED ROTOR AMPS	SQ	SQUARE
CNTR	LS	LIFE SAFETY BRANCH	STG	STORAGE
CN	LFT	LIGHT	SURF	SURFACE
CSFM	LTG	LIGHTING	SV	SERVICE
CU	LW	LOW VOLTAGE	SW	SWITCH
CU#	M	MECHANICAL CONTRACTOR	T	TELEPHONE TERMINAL
CONDENSING UNIT	MCA	MINIMUM CKT AMPS	-T-	TELEPHONE CONDUIT
D	MCB	MAIN CIRCUIT BREAKER	(TBR)	TO BE REMOVED
DEPTH	MCTB	MAIN CATV TERMINAL BOARD	TC	TIME CLOCK
DIRECT CURRENT	MCTO	MAIN CATV TERMINAL CABINET	TEL	TELEPHONE
DRINKING FOUNTAIN	MDF	MECHANICAL DISTRIBUTION FRAME	TELCO	TELEPHONE COMPANY
DIA	MECH	MECHANICAL	TS	TIME SWITCH
DISCONNECT	MFR	MANUFACTURER	TSO	TIME SWITCH OVERRIDE
DISTRIBUTION	MFS	MAIN FUSIBLE SWITCH	TWP	TWISTED SHIELDED PAIR
DWST	MH	METAL HALIDE	TTB	TELEPHONE TERMINAL BOARD
DW	MLO	MAIN LUGS ONLY	TTC	TELEPHONE TERMINAL CABINET
EMERGENCY	MOC	MAXIMUM OVERCURRENT PROTECTION	TRF	TRANSFORMER
EXIST	MSB	MAIN SWITCH-BOARD	Typ	TYPICAL
EACH	MT	MOUNT	Typ SIM	TYPICAL SIMILAR
ELECTRIC BALLAST	MT HT	MOUNTING HEIGHT	UC	UNDERCABINET UNDERCOUNTER
ELECTRICAL CONTRACTOR	MTS	MANUAL TRANSFER SWITCH	UG	UNDERGROUND
EVAPORATIVE COOLER	MTTB	MAIN TELEPHONE TERMINAL BOARD	UGPS	UNDERGROUND PULL SECTION
EXHAUST FAN	MTTC	MAIN TELEPHONE TERMINAL CABINET	UJ	UNDERWRITERS LABORATORIES
EVENING LIGHT	MW	MICROWAVE	UJN	UNLESS OTHERWISE NOTED
ELECTRICAL EQUIPMENT	N	NEUTRAL (GROUNDING CONDUCTOR)	USA	U.S. VOLT
EMERG	(N)	NEW	V	VOLT
EOL	NEMA 3R	NEMA 3R	VAC	VOLT ALTERNATING CURRENT
ES	NC	NORMALLY CLOSED	VHO	VERY HIGH OUTPUT
EN (IN LEXN)	NEC	NATIONAL ELECTRICAL CODE	VLT	VOLTAGE
(E) TO BE (R)	NEMA	NATL ELEC MANUFACTURERS ASSOC	VR	VANDAL-RESISTANT
EXT	NIC	NOT IN CONTRACT	W	WIRE
FLUORESCENT	NL	NIGHT LIGHT	WH#	WATER HEATER
F	NO	NORMALLY OPEN	W/P	WEATHERPROOF (NEMA 3R)
FURNACE	NPF	NORMAL POWER FACTOR	XMR	TRANSFORMER
FIRE ALARM	NTS	NOT TO SCALE	+4B	INDICATES MOUNTING HEIGHT ABOVE FINISH FLOOR
FIRE ALARM CONTROL PANEL				
FIRE ALARM TERMINAL				
FORCED AIR UNIT				

 EXPIRES: 09/30/26 THOMA #24-8123	 rrmdesign.com (949) 361-7950 3333 Camino Capistrano, Ste. 205 San Juan Capistrano, CA 92675	REVISIONS		 CITY OF SANTACRUZ PUBLIC WORKS DEPARTMENT 809 Center Street, Room 201 Santa Cruz, CA 95060	PACIFIC BEACH ROUNDABOUT ENHANCEMENTS ELECTRICAL GENERAL NOTES, SYMBOL LEGEND AND ABBREVIATIONS	REFERENCES FIELD BOOK: DRAWING #:	DATE 2/24/2025 SCALE AS SHOWN
							DRAWN J. COOK E-001
							DESIGN J. COOK VAULT NO.
							CHECKED J. THOMA 7170

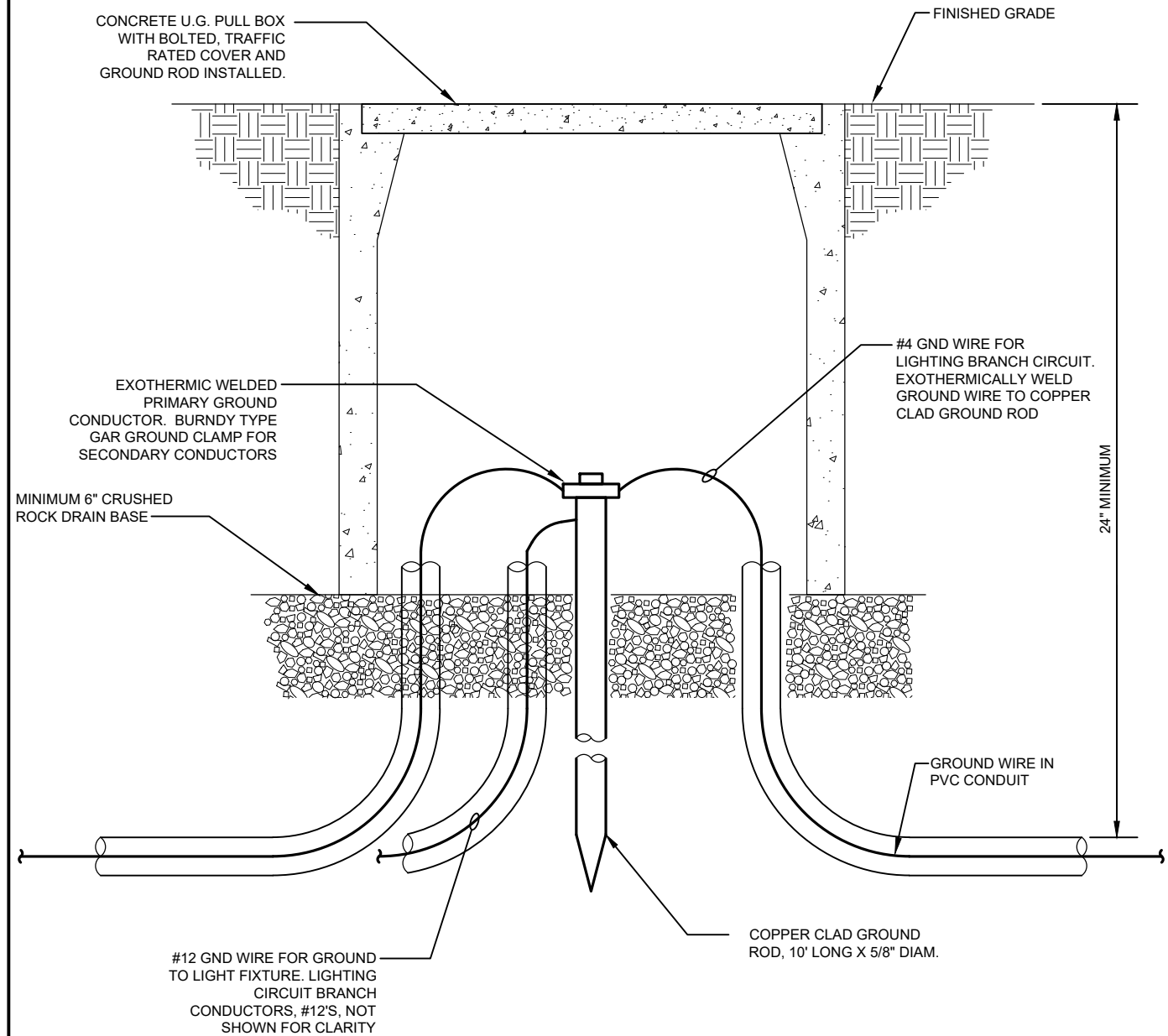


AT LEAST 2 DAYS BEFORE YOU DIG



1 TYPICAL TRENCH DETAIL

NTS



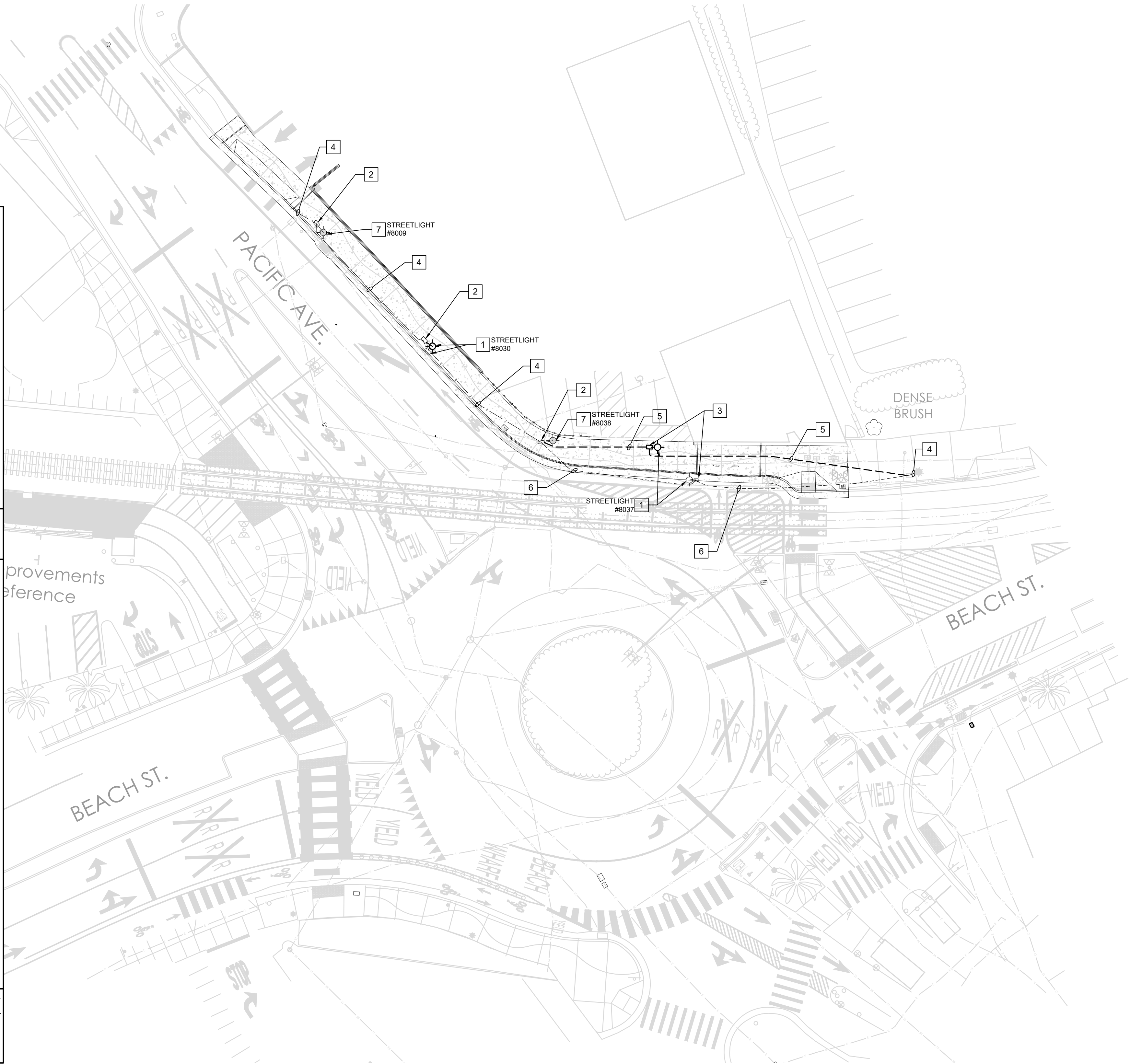
2 TYPICAL UNDERGROUND PULL BOX WITH GROUND ROD

NTS



NEW ELECTRICAL SITE PLAN

SCALE: 1"=20'-0"



REFERENCE NOTES

- EXISTING CITY OF SANTA CRUZ OWNED DECORATIVE STREET LIGHT TO BE RELOCATED AS SHOWN. INSTALL PER CITY OF SANTA CRUZ STANDARDS. EC SHALL RE-ROUTE 2" CONDUIT(S) AND EXTEND STREET LIGHTING POWER CONDUCTORS TO NEW LOCATION AS REQUIRED FROM ADJACENT PULLBOX FOR CONTINUED OPERATION OF LUMINAIRE. REFER TO DETAIL 1/E-201 AND CITY STANDARD DRAWING T2 ON SHEET CD-1.01. COORDINATE EXACT LOCATION REQUIRED WITH CIVIL PLANS.
- EXISTING CITY OF SANTA CRUZ OWNED STREET LIGHT ELECTRICAL PULLBOX SHALL BE RE-SET FLUSH IN-GRADE AT NEW GRADE LEVEL AT EXISTING LOCATION. INSTALL PER CITY OF SANTA CRUZ STANDARDS. EC SHALL ADJUST EXISTING INCOMING AND OUTGOING CONDUIT(S) TO ALIGN WITH NEW BOX ELEVATION AS REQUIRED. REFER TO DETAILS 1 & 2/E-201.
- EXISTING CITY OF SANTA CRUZ OWNED STREET LIGHT ELECTRICAL PULLBOX TO BE RELOCATED AS SHOWN. INSTALL PER CITY OF SANTA CRUZ STANDARDS. EC SHALL INTERCEPT AND RE-ROUTE CONDUIT(S) AND EXTEND CONDUCTORS TO NEW BOX LOCATION AS REQUIRED FROM ORIGINAL BOX LOCATION. MOREOVER, EC SHALL INSTALL NEW (1) 2"C UG BETWEEN NEW BOX LOCATION AND NEW POLE LIGHT LOCATION AND EXTEND EXISTING LIGHTING CIRCUIT AS NECESSARY TO NEW POLE LOCATION. REFER TO DETAILS 1 & 2/E-201. COORDINATE EXACT LOCATION REQUIRED WITH CIVIL PLANS.
- EXISTING (1) 2"C UG WITH EXISTING STREET LIGHTING CIRCUIT(S) TO REMAIN-PROTECT IN PLACE DURING CONSTRUCTION.
- INTERCEPT AND EXTEND EXISTING (1) 2"C UG WITH STREET LIGHT CIRCUIT TO NEW PULLBOX LOCATION SHOWN.
- EXISTING (1) 2"C UG FOR EXISTING STREET LIGHTING CIRCUIT(S) TO BE ABANDONED IN PLACE. REMOVE EXISTING CONDUCTORS FROM ABANDONED CONDUIT (CONFIRM ONLY STREET LIGHTING POWER CIRCUITS ARE PRESENT PRIOR TO REMOVAL).
- EXISTING CITY OF SANTA CRUZ OWNED DECORATIVE STREET LIGHT SHALL BE ADJUSTED TO BE AT NEW FINISHED GRADE LEVEL AT EXISTING LOCATION. INSTALL PER CITY OF SANTA CRUZ STANDARDS. AS NECESSARY, EC SHALL EXTEND EXISTING 2" CONDUIT AND STREET LIGHTING POWER CONDUCTORS TO ADJUSTED POLE ELEVATION FOR CONTINUED OPERATION OF LUMINAIRE. REFER TO DETAIL 1/E-201 AND CITY STANDARD DRAWING T2 ON SHEET CD-1.02.

SITE PLAN GENERAL NOTES

- TRENCHING AND BACKFILLING FOR ALL CONDUIT SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL CONDUITS SHALL HAVE MINIMUM COVER REQUIREMENTS AS SPECIFIED IN CEC 300-5. JOINT TRENCHING MAY BE UTILIZED WHERE PRACTICABLE AND WERE PERMITTED BY THIS SPECIFICATION.
- LOCATIONS OF EXISTING UNDERGROUND (UG) UTILITY SYSTEMS SHALL BE DETERMINED BY CALLING UNDERGROUND SERVICE ALERT (USA). WHEN PLANNING UNDERGROUND WORK, AND BEFORE YOU DIG, CONTACT UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOURS PRIOR TO EXCAVATION (WEEKENDS EXCLUDED) FOR THE LOCATION OF UNDERGROUND GAS AND ELECTRIC LINES OR EQUIPMENT.
- MAINTAIN REQUIRED CLEARANCES FROM ALL SANITARY SEWER, WATER AND STORM DRAIN PIPING.
- A SUBSURFACE UTILITY REPORT DATED 1/7/25 WAS COMPLETED BY PSOMAS TO SERVE AS A PRELIMINARY ASSESSMENT OF THE UNDERGROUND UTILITIES CONTAINED WITHIN THE AREA OF WORK. THIS REPORT IS AVAILABLE TO BIDDERS UPON REQUEST FOR REFERENCE, BUT IS NOT TO REPLACE 811 OR OTHER ON-CALL SERVICES FOR UTILITY LOCATING. CONTRACTOR SHALL FIELD VERIFY AND MAINTAIN EXISTING UTILITIES IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION AND EXCAVATION OPERATIONS.
- REPAIR AND RECONNECT ALL EXISTING UNDERGROUND PIPING UNCOVERED AND DAMAGED BY NEW WORK AS REQUIRED TO MAINTAIN PROPER SYSTEM FUNCTIONS. RE-TEST ALL SYSTEMS DAMAGED BY NEW WORK.
- SAWCUT AND PATCH ALL SURFACES TO MATCH EXISTING SURFACES (CONCRETE, AC PAVING, ETC.) AS REQUIRED FOR INSTALLATION OF NEW WORK. COMPLETE FIELD VERIFICATION OF THIS WORK IS REQUIRED BY CONTRACTOR. SAWCUT ENTIRE PANEL OUT AND REPLACE ENTIRE PANEL BETWEEN EXPANSION JOINTS(AS APPLICABLE).



REVISIONS



CITY OF
SANTACRUZ
PUBLIC WORKS DEPARTMENT
809 Center Street, Room 201
Santa Cruz, CA 95060

PACIFIC BEACH

ROUNDAABOUT ENHANCEMENTS

NEW ELECTRICAL SITE PLAN

REFERENCES

FIELD BOOK:

DRAWING #:

DATE 2/24/2025

DRAWN J. COOK

DESIGN J. COOK

CHECKED J. THOMA

SCALE AS SHOWN

E-201

VAULT NO.

7170