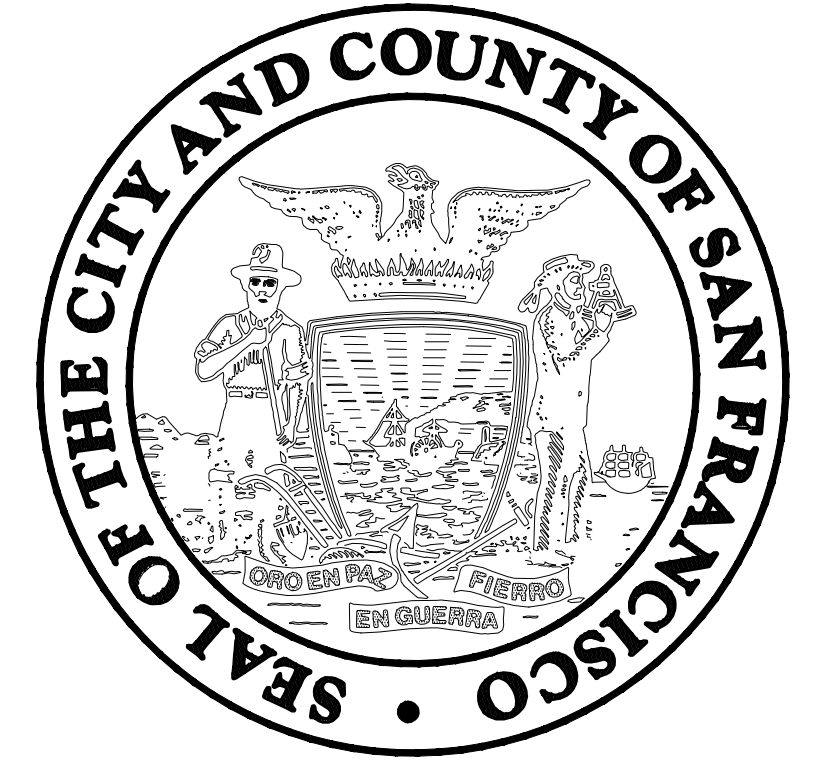




CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY



MUNI METRO SYSTEM
CHURCH & MARKET MUNI FORWARD PROJECT
CONTRACT NO: T0211

FOR 95% REVIEW
May 2026



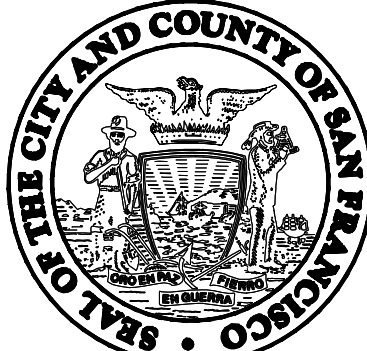
PROJECT SITE

LOCATION MAP
NTS



VICINITY MAP
NTS

I:\A\T0211 Church and Market - Muni Forward\07_AutoCAD Drawings\03_General\Sheet Files\T0211G01.dwg H:\T0211 Tue Feb 03,2026 10:46 am

							DESIGNED DRAWN CHECKED REVIEWED RECOMMENDED APPROVED DATE	 CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY 	MUNI METRO SYSTEM		CONTRACT	XXXX	
									CHURCH AND MARKET – MUNI FORWARD		DRAWING	CL-#####	
									GENERAL VICINITY MAP AND PROJECT LOCATION		G-01	REVISION	
											G-XX	0	


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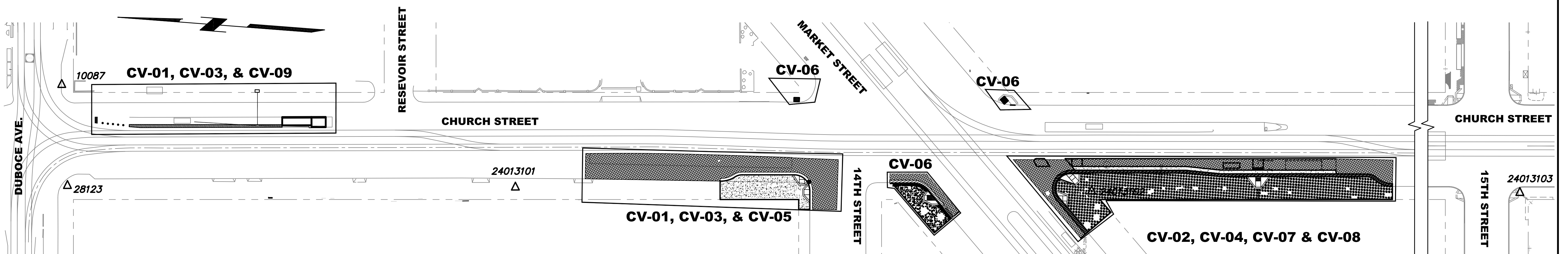
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7

CITY AND COUNTY OF SAN FRANCISCO SURVEY CONTROL				
POINT NO	NORTHING	EASTING	ELEVATION (FT)	DESCRIPTION
10087	85802.103	163556.420	115.735	"BM" FND MONUMENT GEODETIC AS/WASHER
28123	85790.993	163477.732	115.199	MONUMENT BNDRY REF AS/WASHER
24013101	85447.327	163504.115	104.776	SET CONTROL PT AS/WASHER
24013102	85003.361	163534.644	100.522	FND CONTROL PT MAG NAIL/WASHER
24013103	84589.153	163562.714	95.394	SET CONTROL PT AS/WASHER

ACWS	ASPHALT CONCRETE WEARING SURFACE
ADA	AMERICAN DISABILITIES ACT
CCSF	CITY AND COUNTY OF SAN FRANCISCO
C	CURB
CB	CATCH BASIN
F/I	FURNISH AND INSTALL
MH	MANHOLE
No.	NUMBER
NTS	NOT TO SCALE
PGE	PACIFIC GAS AND ELECTRIC
PW	PUBLIC WORKS
SSD	SUSTAINABLE STREETS DIVISION
TS	TRAFFIC SIGNAL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

1. THE LIMITS OF SIDEWALK RECONSTRUCTION SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL REMOVE TO THE NEAREST FLAG/BRICK/JOINT AND MATCH ANY (E) BRICK/SCORE PATTERN UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE CITY REPRESENTATIVE.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL (E) FACILITIES, WHETHER OR NOT THEY ARE SHOWN ON THE DRAWINGS.
3. ALL CITY MONUMENTS MUST BE PROTECTED PER STATE LAND SURVEYORS ACT. CALL THE COUNTY SURVEYOR AT 628-271-2131 TO REPORT ANY MONUMENTS IN DANGER OF DISTURBANCE, DESTRUCTION OR REMOVAL.
4. ALL (N) CURB RAMP CONSTRUCTION SHALL CONFORM TO LATEST CCSF PW STANDARD AND ALTERNATE CURB RAMP DRAWINGS NO. RX-1 THRU RX-11. IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS AND THE PW STANDARD PLANS.
5. RELOCATION OR ADJUSTING OF ALL (E) UTILITIES THAT ARE WITHIN THE (N) CURB RAMPS AND ADJACENT SIDEWALK SHALL BE COORDINATED BY THE CONTRACTOR WITH UTILITY OWNERS AT LEAST 4 WEEKS IN ADVANCE OF CONSTRUCTION. FOR AT&T PULL BOX RELOCATION, CONTRACTOR MUST CONTACT LYNN SCHUSSEL (650) 991-5630. FOR COMCAST PULL BOX RELOCATION, CONTRACTOR MUST CONTACT DEREK NIPPE (415) 503-4505.
6. ALIGN ALL (N) CURB RAMPS WITH (E) PROPERTY LINE UNLESS OTHERWISE NOTED.
7. ALL (N) CORNER RADIUS=12', UNLESS OTHERWISE NOTED..
8. 12" WIDE GROOVED BORDERS (WARNING BANDS) FOR (N) CURB RAMPS SHALL NOT BE PART OF THE SLOPED RAMPS AND WING SURFACES.
9. SIDEWINGS ARE 45 DEGREES FROM THE CENTER RAMP, UON.
10. ALL (E) TRAFFIC SIGNS ARE TO BE REMOVED AND REINSTALLED AT LOCATIONS PER SSD DIRECTIONS AFTER (N) SIDEWALK CONSTRUCTION.
11. CONTRACTOR TO ADJUST ALL CB AND PULL BOXES TO (N) ELEVATION.
12. CONTRACTOR SHALL CONFORM TO (E) ELEVATIONS/GRADES UON.
13. SLOPE GUTTERS MINIMUM 1% AND MAXIMUM 2% TOWARD FLOW LINE AT BOTTOM OF RAMPS
14. CONTRACTOR SHALL PROVIDE CONSTRUCTION JOINT BETWEEN (N) ADJACENT CONCRETE PLACEMENT PER CCSF PW STANDARD SPECIFICATIONS.
15. LANDINGS AT TOP AND BOTTOM OF RAMPS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
16. ALL RAMPS ARE FOUR (4) FEET WIDE, UON.
17. MAXIMUM OF WINGS SHALL NOT EXCEED 10% MEASURED PARALLEL TO FLOWLINE.
18. PROVIDE KEYWAY CONSTRUCTION JOINTS BETWEEN ADJACENT CONCRETE POURS.
19. THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO INSPECT CURB RAMP LAYOUT 48 HOURS IN ADVANCE OF CONCRETE POUR.
20. FOR CP-SERIES PLANS, PROFESSIONAL ENGINEERS CIVIL STAMP AND SIGNATURE FROM SUSTAINABLE STREETS DIVISION (SSD) APPLIES TO TRAFFIC WORK AND THE PROFESSIONAL ENGINEER CIVIL STAMP AND SIGNATURE FROM CAPITAL PROGRAMS AND CONSTRUCTION (CP&C) APPLIES TO CIVIL BOARDING PLATFORMS. TRAFFIC WORK INCLUDES PEDESTRIAN BULB DIMENSIONS, CORNER RADIUS, TRANSIT BOARDING ISLAND DIMENSIONS, THUMBNAIL ISLAND, TRAFFIC LANE CLEARANCES, VEHICLE CLEARANCES, PEDESTRIAN CROSSINGS, DIRECTIONAL BARS, VEHICLE TURNING TEMPLATES, CRASH ATTENUATORS, AND APS. CIVIL BOARDING PLATFORMS INCLUDES BOARDING ISLAND, KEY STOP PLATFORMS, AND PAVING WORK.

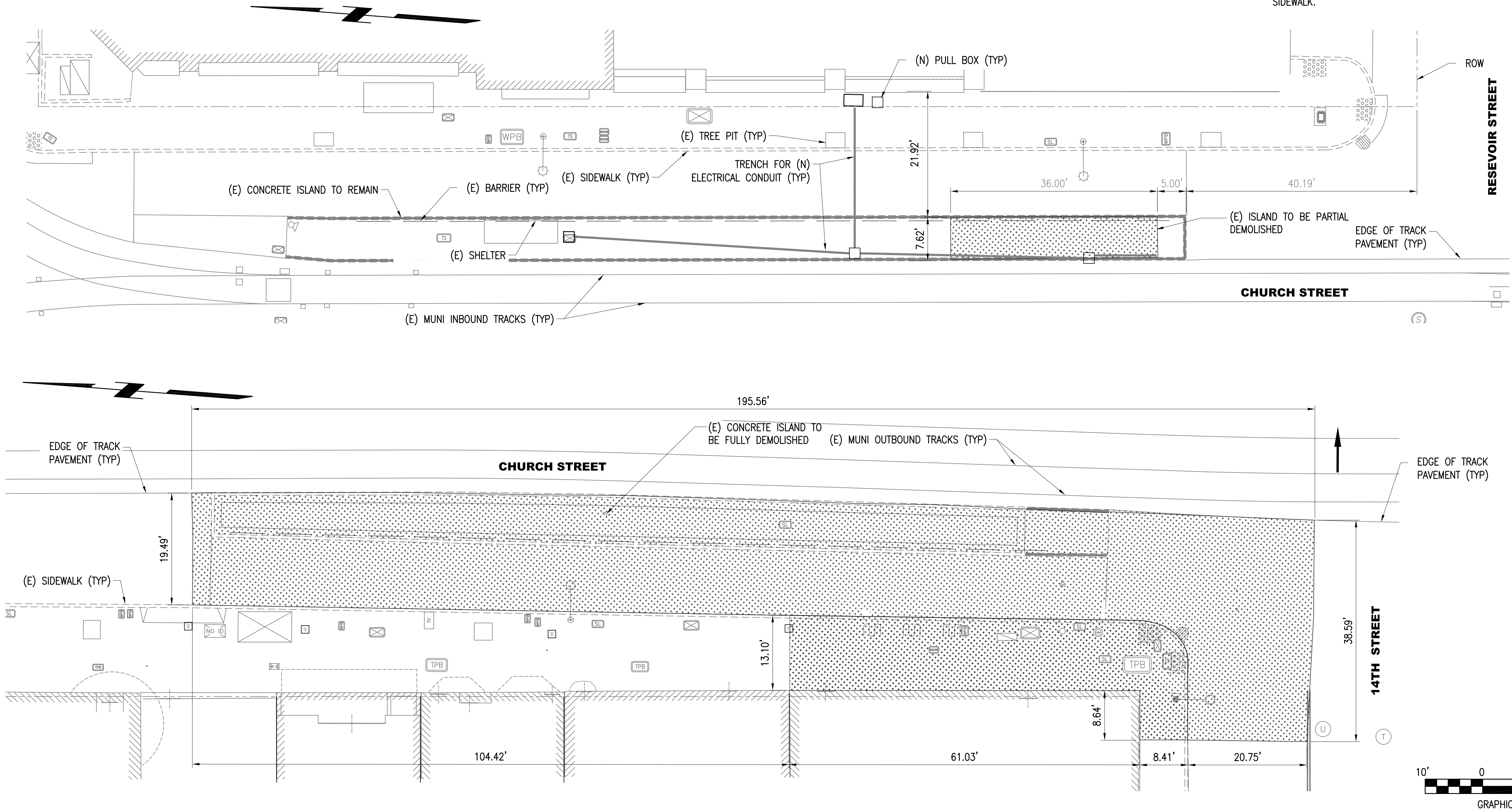


NTS

						NOT FOR CONSTRUCTION	DESIGNED	 CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY 	MUNI METRO SYSTEM		CONTRACT
							DRAWN		J MUNI FORWARD: CHURCH & MARKET		1335
							CHECKED				DRAWING
							REVIEWED				CL-
						RECOMMENDED				CV-G1	REVISION
						APPROVED					0
						DATE				####	
NO. DATE DESCRIPTION REVISED CHECKED APPROVED									CIVIL LEGEND, ABBREVIATIONS, NOTES AND SURVEY CONTROL POINTS		
REVISIONS											

NOTES:

1. NOT ALL (E) UTILITY FACILITIES HAVE BEEN PLOTTED ON THESE PLANS. CONTRACTOR TO VERIFY ALL (E) UTILITIES IN FIELD BEFORE BEGINNING DEMOLITION WORK. ALL UTILITIES TO REMAIN UON.
2. FOR (E) TRACKWORK AND (E) TRACKWAY PAVEMENT, REFER TO TRACK DRAWING AS-BUILTS.
3. CONTRACTOR TO DEMOLISH (E) OUTBOUND CONCRETE ISLAND INCLUDING AFFECTED BARRIER RAILS AS SHOWN ON THE DRAWING. ALL (E) SIGNS AND BARRIERS TO BE SALVAGE.
4. CONTRACTOR TO TRENCH AS SHOWN ON THE DRAWING FOR INSTALLATION OF ELECTRICAL CONDUIT AND PULL BOXES ON THE PLATFORM AND SIDEWALK.

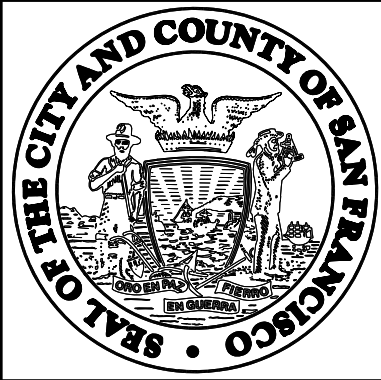


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NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

NOT FOR CONSTRUCTION

DESIGNED
DRAWN
CHECKED
REVIEWED
RECOMMENDED
APPROVED
DATE



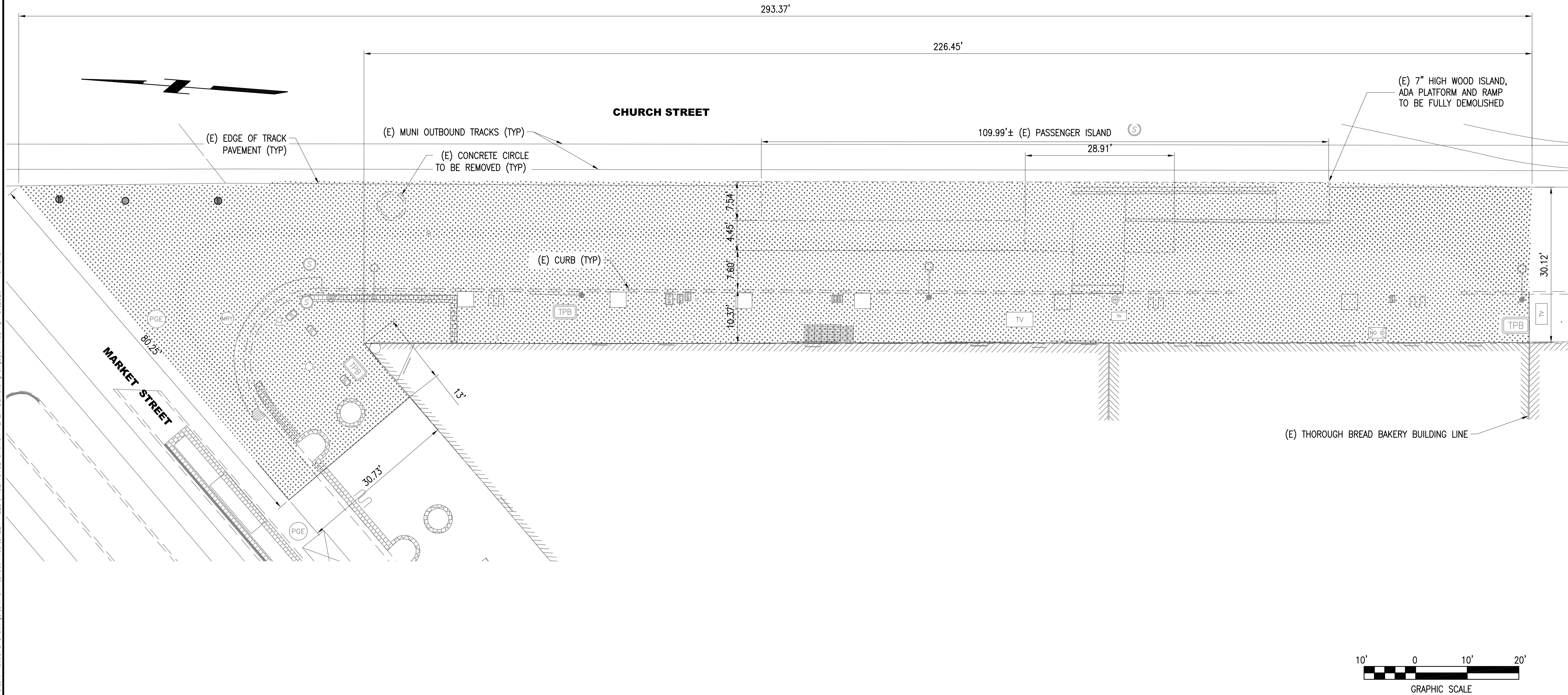
CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY



MUNI METRO SYSTEM		CONTRACT 1335	
J MUNI FORWARD: CHURCH & MARKET		DRAWING CL-	
CIVIL DEMOLITION PLAN CHURCH ST. BETWEEN DUBOCE AVE. AND 14TH ST.		CV-01	REVISION
		####	0

NOTES:

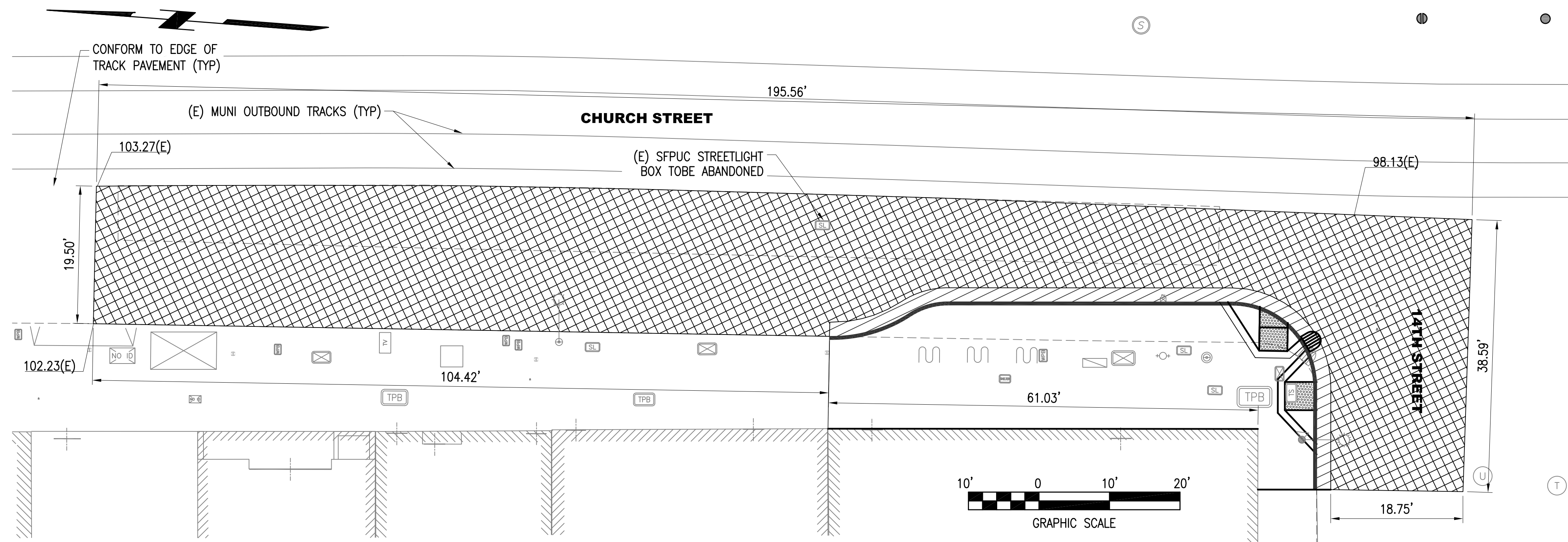
- 1. CONTRACTOR TO DEMOLISH AND HAUL AWAY THE ENTIRE (E) WOODEN ISLAND STRUCTURE INCLUDING ADA RAMP, PLATFORM, METAL PLATINGS, BOLTS, AND ALL OTHER ITEMS RELATED/ATTACHED TO THE STRUCTURE.
- 2. ALL SIGNS, POLES, DELINEATORS, AND BARRIERS ARE TO BE SALVAGED AND RETURNED TO THE ENGINEER.
- 3. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
- 4. NOT ALL EXISTING UTILITIES MIGHT BE SHOWN ON DRAWING, CONTRACTOR TO FIELD VERIFY BEFORE DEMOLITION.



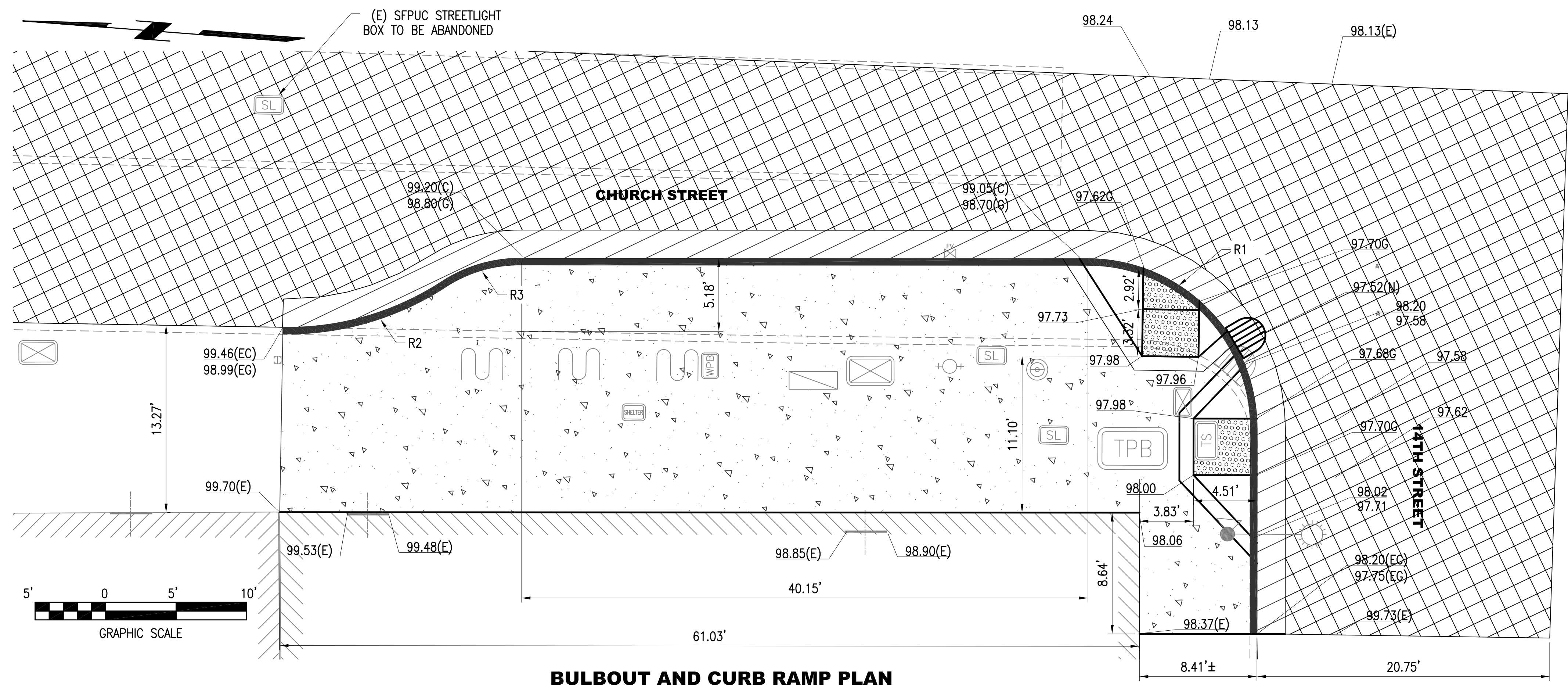
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											J MUNI FORWARD: CHURCH & MARKET			DRAWING CL—			
											CIVIL			REVISION			
											DEMOLITION PLAN 2			CV-02			
											CHURCH ST. AT MARKET ST.			#### 0			
NO. DATE DESCRIPTION REVISED CHECKED APPROVED																	
REVISIONS																	

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BORDER D SIZE - REVISED 02/01/23



PAVEMENT PLAN



CURVE DATA

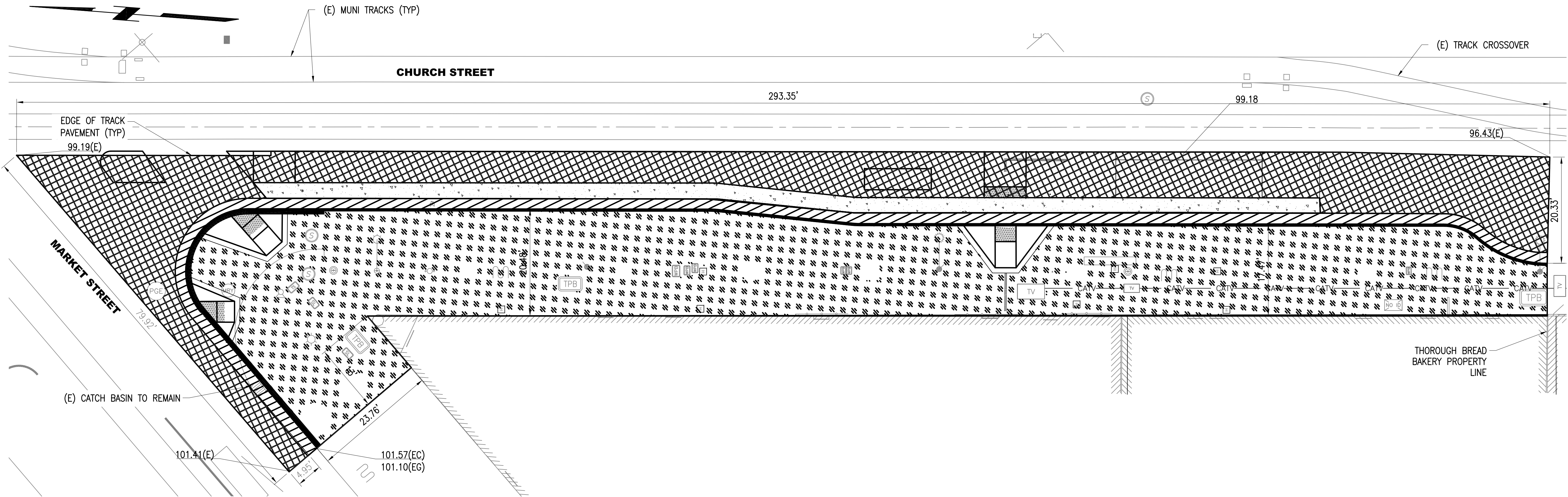
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R-2	10	11.92	68.296
R-3	20	5.96	17.074

NOT FOR CONSTRUCTION MARCH 2025

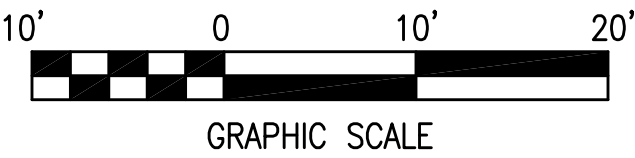
										NOT FOR CONSTRUCTION										DESIGNED DRAWN CHECKED REVIEWED RECOMMENDED APPROVED DATE										 CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY  SFMTA										MUNI METRO SYSTEM										CONTRACT 1335									
																														DRAWING CL-										REVISION																			
NO. DATE DESCRIPTION REVISED CHECKED APPROVED																														CIVIL PAVEMENT, BULBOUT AND CURB RAMP PLANS CHURCH ST. AT 14TH ST.										CV-03 ###										0									
REVISIONS																																																											

NOTES:

1. NOT ALL UTILITY FACILITIES HAVE BEEN PLOTTED ON PORTIONS OF THESE PLANS.
2. FOR (E) TRACKWORK AND (E) TRACKWAY PAVEMENT, REFER TO TRACK DRAWING AS-BUILTS.
3. CONTRACTOR TO ADJUST ALL PULL BOXES, CASTINGS, AND COVERS TO (N) PAVEMENT ELEVATIONS.
FOR MUNI MANHOLE ADJUSTMENT, CONTRACTOR TO CONTACT XXXXXX
415-XXX-XXXX FOR MUNI MANHOLE FRAME IS NECESSARY FOR WORK WITHIN DEMOLITION LIMITS.

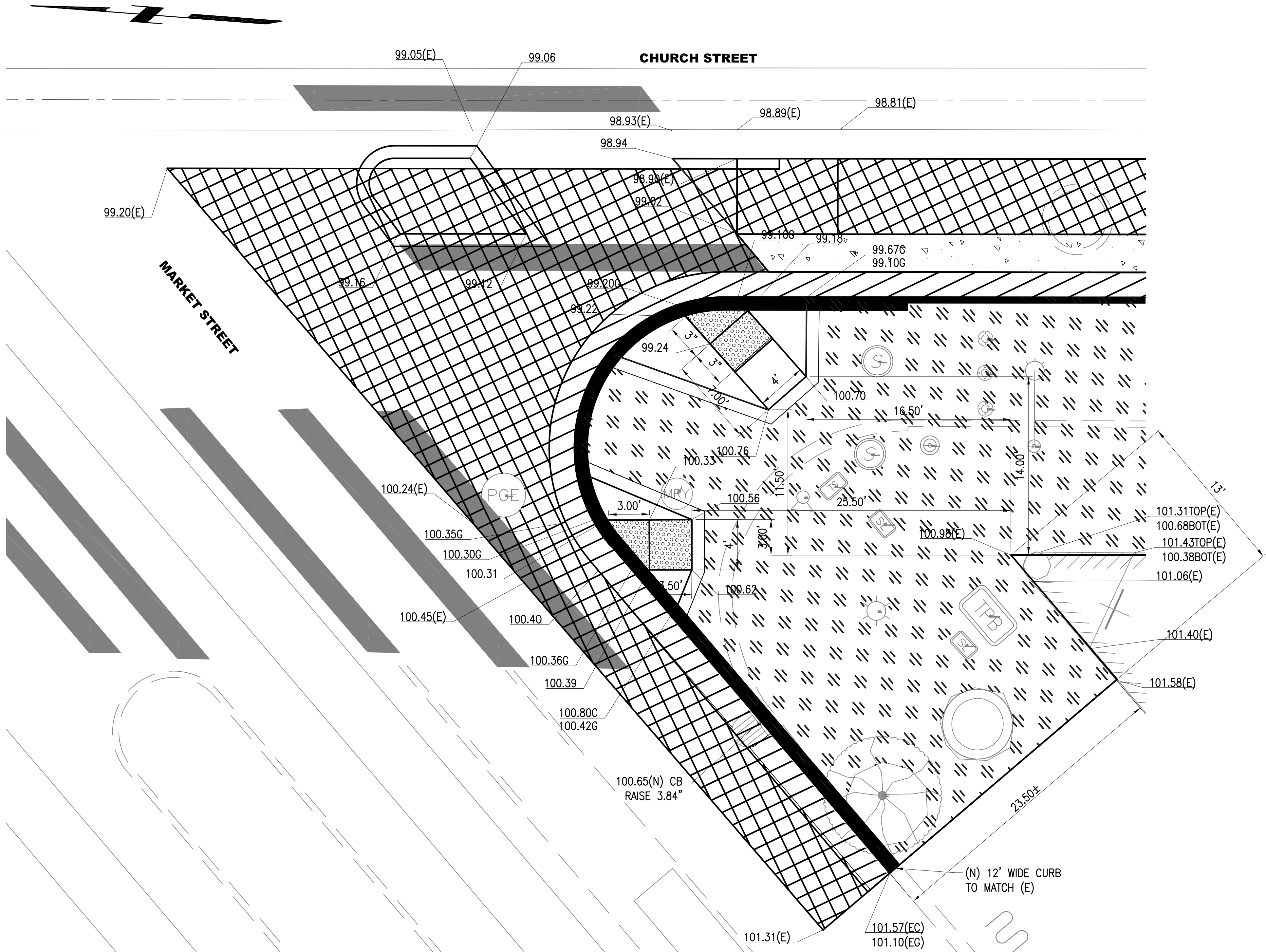


95% REVIEW - NOT FOR CONSTRUCTION



						NOT FOR CONSTRUCTION	DESIGNED DRAWN CHECKED REVIEWED RECOMMENDED APPROVED DATE	SEAL OF THE CITY AND COUNTY OF SAN FRANCISCO CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY SFMTA	MUNI METRO SYSTEM		CONTRACT				
									J MUNI FORWARD: CHURCH & MARKET		1335				
									CIVIL ROADWAY REPAVING PLAN 2 CHURCH ST. AT MARKET ST.		CL-				
									CV-04		REVISION				
										####		0			

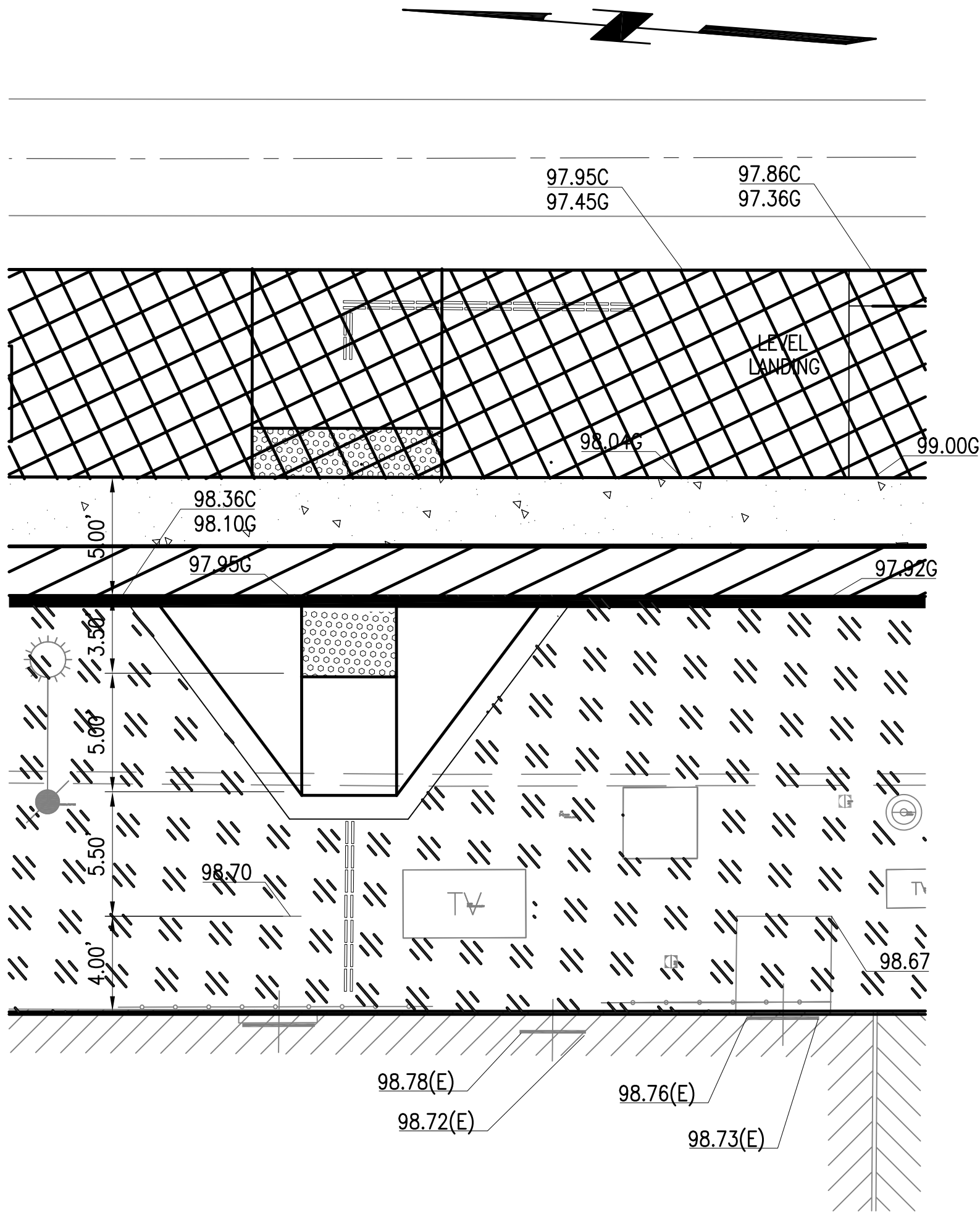
U:\T0211 Church and Market - Muni Forward\07_AutoCAD Drawings\04_Civil\Sheet Files\T0211C007 CHURCH PLAZA CURB RAMP.dwg Jhguyen Wed Apr 01 2026 -- 10:37 am



A
CURB RAMP DETAIL

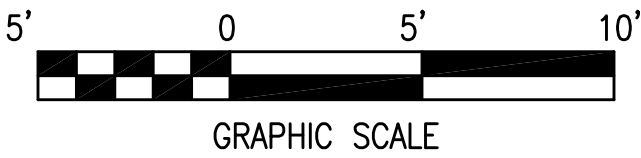
NOTES:

1. NOT ALL UTILITY FACILITIES HAVE BEEN PLOTTED ON PORTIONS OF THESE PLANS. CONTRACTOR TO FIELD VERIFY BEFORE BEGINNING DEMOLITION WORK.
2. FOR (E) TRACKWORK AND (E) TRACKWAY PAVEMENT, REFER TO TRACK DRAWING AS-BUILTS.
3. CONTRACTOR TO ADJUST ALL PULL BOXES, CASTINGS, AND COVERS TO (N) PAVEMENT/SIDEWALK ELEVATION.
FOR MUNI MANHOLE ADJUSTMENT, CONTRACTOR TO CONTACT XXXXX 415-XXX-XXXX.



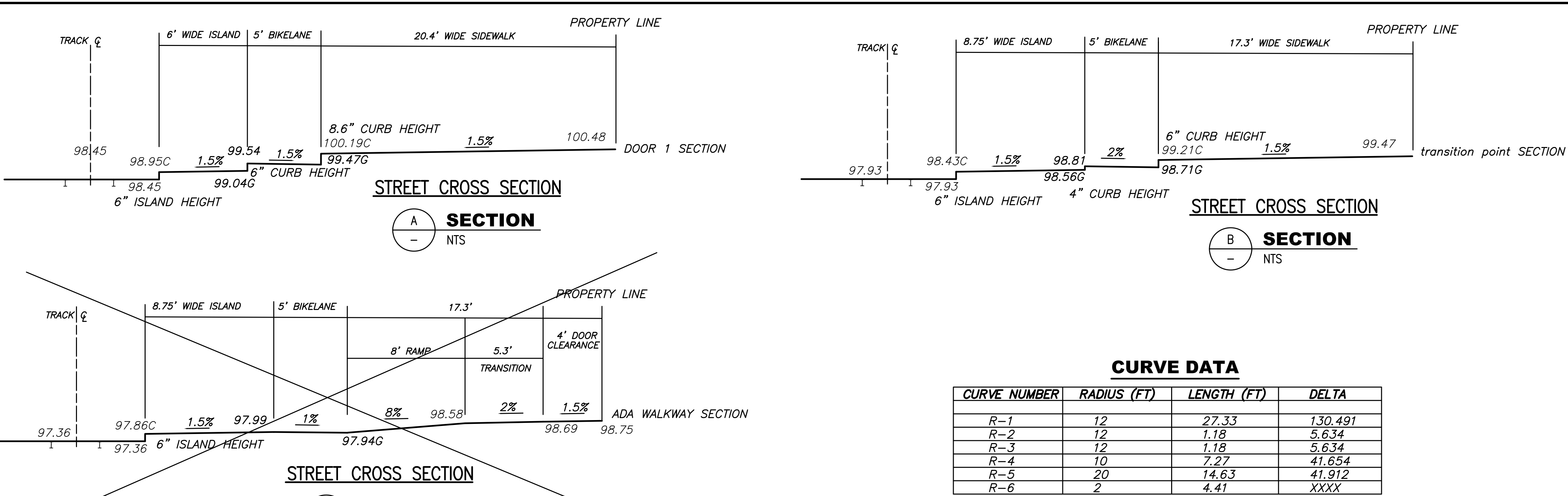
B
CURB RAMP DETAIL

95% REVIEW - NOT FOR CONSTRUCTION



							NOT FOR CONSTRUCTION	DESIGNED	 CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY 	MUNI METRO SYSTEM		CONTRACT
								DRAWN		J MUNI FORWARD: CHURCH & MARKET		1335
								CHECKED		CHURCH ST. AT MARKET ST CURB RAMP DETAILS		CL-
								REVIEWED				CV-07
							RECOMMENDED			####	REVISION	
							APPROVED					0
							DATE					

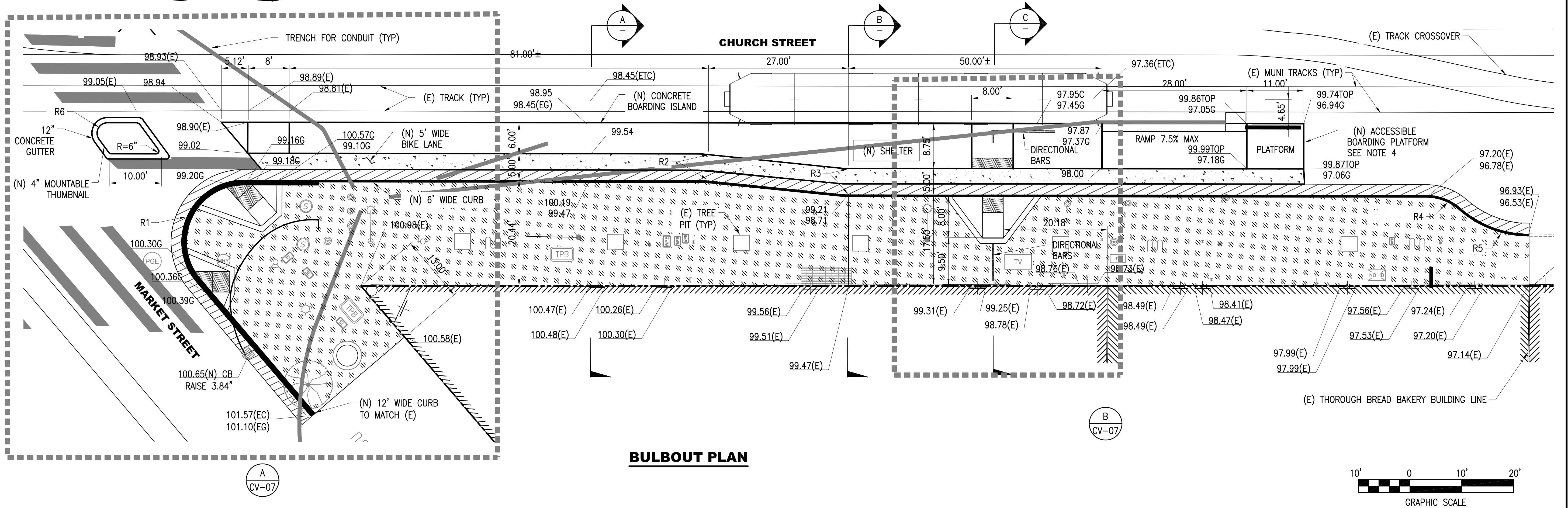
\\S:\T0211 Church and Market - Muni Forward\07_AutoCAD Drawings\04_Civil\Sheet Files\Sheet Files\T0211CV08 CHURCH PLAZA SIDEWALK.dwg, Nguyen Wei Apr 01 2026 - 10:38 am



CURVE DATA

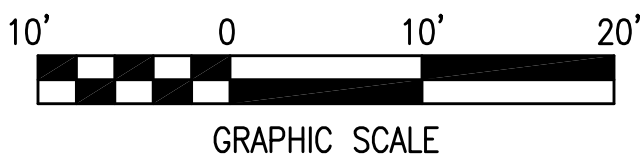
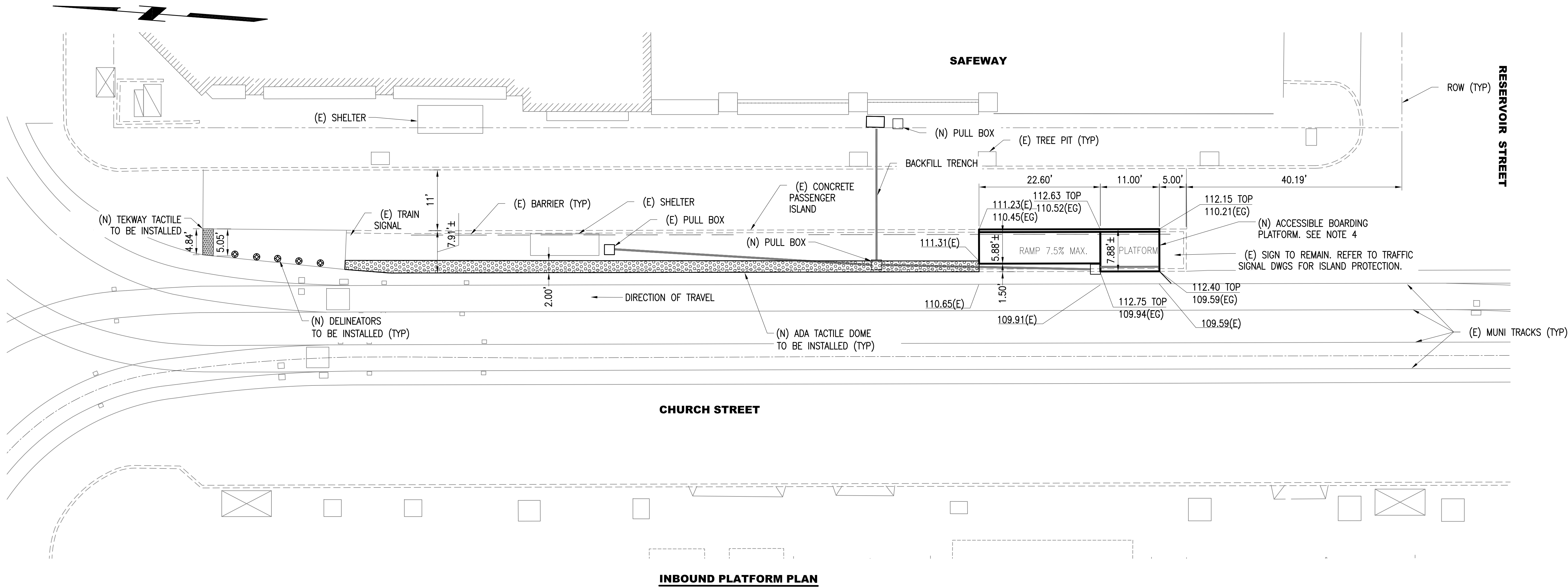
CURVE NUMBER	RADIUS (FT)	LENGTH (FT)	DELTA
R-1	12	27.33	130.491
R-2	12	1.18	5.634
R-3	12	1.18	5.634
R-4	10	7.27	41.654
R-5	20	14.63	41.912
R-6	2	4.41	XXXX

- NOTES:**
- NOT ALL (E) UTILITY FACILITIES HAVE BEEN PLOTTED ON PORTIONS OF THESE PLANS. CONTRACTOR TO FIELD VERIFY BEFORE CONSTRUCTION COMMENCE.
 - ALL (E) UTILITIES TO REMAIN UNLESS OTHERWISE NOTED.
 - FOR (E) TRACKWORK AND (E) TRACKWAY PAVEMENT, REFER TO TRACK DRAWING AS-BUILTS.
 - CONTRACTOR TO ADJUST ALL PULL BOXES, CASTINGS, AND COVERS TO (N) PAVEMENT ELEVATIONS. FOR MUNI MANHOLE ADJUSTMENT, CONTRACTOR TO CONTACT XXXXXX 415-XXX-XXXX FOR MUNI MANHOLE FRAME IF NECESSARY FOR WORK WITHIN DEMOLITION LIMITS.
 - CONTRACTOR TO REFER TO LANDSCAPE ARCHITECTURAL SERIES DRAWINGS FOR RAMP AND PLATFORM HANDRAILS, FINISHES AND VARIOUS DETAILS.
 - CONTRACTOR TO REFER TO LANDSCAPE ARCHITECTURAL SERIES DRAWINGS FOR (N) SIDEWALK BRICK PATTERNS AND SIDEWALK FINISHES.
 - CONTRACTOR TO REFER TO LANDSCAPE ARCHITECTURAL SERIES DRAWINGS FOR NEW TREE PIT DIMENSIONS.
 - (N) SFMTA BUS SHELTER TO BE INSTALLED BY CLEAR CHANNEL. CONTRACTOR TO COORDINATE WITH CLEAR CHANNEL FOR POWER HOOK UP TO BUS SHELTERS.
 - FOR CP-SERIES PLANS, PROFESSIONAL ENGINEER CIVIL STAMP AND SIGNATURE FROM SUSTAINABLE STREETS DIVISION (SSD) APPLIES TO TRAFFIC WORK ONLY AND PROFESSIONAL ENGINEER CIVIL STAMP AND SIGNATURE FROM CAPITAL PROGRAMS & CONSTRUCTION (CP&C) APPLIES TO CIVIL BOARDING PLATFORMS ONLY. TRAFFIC WORK INCLUDES PEDESTRIAN BULB DIMENSIONS, CORNER RADIUS, TRANSIT BOARDING ISLAND DIMENTIONS, BIKE LANES, TRAFFIC LANE CLEARANCES, VEHICLE CLEARANCES, PEDESTRIAN CROSSWALKS, DIRECTIONAL BARS, AND VEHICLE TURNING TEMPLATES. CIVIL BOARDING PLATFORMS INCLUDES BOARDING ISLANDS AND KEY STOP PLATFORMS.



NOTES:

- 1. NOT ALL UTILITY FACILITIES HAVE BEEN PLOTTED ON PORTIONS OF THESE PLANS.
- 2. FOR (E) TRACKWORK AND (E) TRACKWAY PAVEMENT, REFER TO TRACK DRAWING AS-BUILTS.
- 3. CONTRACTOR TO ADJUST ALL (E) PULL BOXES, CASTINGS, AND COVERS TO (N) PAVEMENT ELEVATIONS.
FOR MUNI MANHOLE ADJUSTMENT, CONTRACTOR TO CONTACT XXXXXX 415-XXX-XXXX FOR MUNI MANHOLE FRAME IS NECESSARY FOR WORK WITHIN DEMOLITION LIMITS.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR PLATFORM FINISHES AND DETAILS.
- 5. FOR TRENCH AND ROADWAY BACKFILL AND RESTORATION, CONTRACTOR TO REFER TO SF DPW ORDER NO. 187005 - REGULATIONS FOR EXCAVATING AND RESTORING STREETS IN SAN FRANCISCO.
- 6. ALL ROADWAY AND BOARDING ISLAND MUST BE RESTORED TO MATCH ORIGINAL.



						NOT FOR CONSTRUCTION	DESIGNED	 CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY 	MUNI METRO SYSTEM		CONTRACT
							DRAWN		J MUNI FORWARD: CHURCH & MARKET		1335
							CHECKED		CIVIL		CL-
							REVIEWED		CHURCH ST. AT RESERVOIR ST.		CV-09
							RECOMMENDED		INBOUND PLATFORM		####
NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED	APPROVED				REVISION	
REVISIONS						DATE				0	

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BORDER D SIZE - REVISED 02/01/23

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BORDER D SIZE -- REVISED 02/01/23

BUILDING CODE

ALL CONSTRUCTION, MATERIALS, AND WORKMANSHIP SHALL COMPLY WITH THE DRAWINGS, SPECIFICATIONS, THE 2025 SAN FRANCISCO BUILDING CODE (SFBC), THE 2025 CALIFORNIA BUILDING CODE (CBC), APPLICABLE SAFETY CODES, AND TO THE RULES AND REGULATIONS OF ALL AGENCIES HAVING JURISDICTION.

APPLICABLE CODES AND STANDARDS

THE PUBLICATIONS LISTED BELOW ARE THE GOVERNING CODES AND STANDARDS AND ARE REFERENCED BY THEIR BASIC DESIGNATION. IN THE CASE OF CONFLICTING REQUIREMENTS, THE BUILDING CODE SHALL GOVERN.

1. BUILDING CODE: 2025 SAN FRANCISCO BUILDING CODE (SFBC) AND CALIFORNINA BUILDING CODE (CBC).
2. ACI 318 – AMERICAN CONCRETE INSTITUTE, ‘BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE’, 2022 EDITION.
3. AISC 360 – AMERICAN INSTITUTE OF STEEL CONSTRUCTION, ‘SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS’, 2022 EDITION.
4. ASCE/SEI 7 – AMERICAN SOCIETY OF CIVIL ENGINEERS, ‘MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES’, 2022 EDITION.
5. ASTM – AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM INTERNATIONAL).
6. AWS A2.4 – AMERICAN WELDING SOCIETY, ‘STANDARD SYMBOLS FOR WELDING, BRAZING, AND NONDESTRUCTIVE EXAMINATION’, 2020 EDITION.
7. AWS D1.1/D1.1M – AMERICAN WELDING SOCIETY, ‘STRUCTURAL WELDING CODE – STEEL’, 2020 EDITION.
8. AWS D1.4/D1.4M – AMERICAN WELDING SOCIETY, ‘STRUCTURAL WELDING CODE – STEEL REINFORCING BAR’, 2018 EDITION.
9. ICC – INTERNATIONAL CODE COUNCIL – EVALUATION SERVICES (ICC–ES).
- 10.RCSC – RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS, ‘SPECIFICATION FOR STRUCTURAL JOINTS USING HIGHT–STRENGTH BOLTS’, 2020 EDITION.
- 11.CALIFORNIA CODE OF REGULATIONS, TITLE 8, CALIFORNIA OSHA, AND ALL OTHER APPLICABLE ENVIRONMENTAL, SAFETY AND HEALTH REGULATIONS STANDARDS AND REQUIREMENTS.

GENERAL NOTES

1. PROJECT DATUM ELEVATION +0’–0” CORRESPONDS TO THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD) OF +X’.
2. SEE CIVIL AND ARCHITECTURAL DRAWINGS FOR REFERENCE LOCATION OF PROJECT GRIDLINES TO SITE SURVEY COORDINATES.
3. EXTERIOR GRADES SHOWN ON STRUCTURAL DRAWINGS ARE APPROXIMATE AND FOR GENERAL REFERENCE ONLY. REFER TO CIVIL AND ARCHITECTURAL DRAWINGS FOR EXACT GRADE ELEVATIONS.
4. INFORMATION SHOWN ON STRUCTURAL DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE BEST KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. CONTRACTOR SHALL VERIFY EXISTING FEATURES AND CONDITIONS (DIMENSIONS, ELEVATIONS, ETC) AND UNDERGROUND UTILITIES WITHIN THE EXTENT OF PROJECT LIMITS PRIOR TO PREPARING SHOP DRAWINGS AND PRIOR TO BEGINNING FABRICATION. REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER’S REPRESENTATIVES IMMEDIATELY FOR RESOLUTION. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER’S REPRESENTATIVES.
5. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE REQUIREMENTS OF THE FINISHED STRUCTURE. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS AND METHOD OF CONSTRUCTION.

FOUNDATION NOTES

1. THE GEOTECHNICAL REPORT APPLICABLE FOR THIS PROJECT SITE IS BY ***, DATED ***, AND IS AVAILABLE FOR REVIEW AT THE ARCHITECT’S OFFICE. THE CONTRACTOR SHALL READ THE SOIL REPORT AND SHALL BE RESPONSIBLE FOR ALL WORK DESCRIBED IN THE REPORT.
2. INSTALLATION OF THE FOOTINGS OR PIERS WITH RESPECT TO THE DEPTH BELOW FINISHED OR NATURAL GRADE SHALL BE AT A MINIMUM ACCORDING TO THE FOUNDATION DETAILS ON THE DRAWINGS. FIELD DISCOVERED CONDITIONS MAY NECESSITATE DEEPER FOUNDATIONS.
3. MINIMUM PIER DEPTH SHALL BE *** FEET IN NATIVE SOIL.
4. THE FOUNDATION FORMS AND REINFORCING SHALL BE OBSERVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO POURING OF CONCRETE.
5. ALL WATER SHALL BE REMOVED FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING OF CONCRETE.
6. ALL BACKFILL WITH ENGINEERED FILLS SHALL BE COMPACTED TO 95% RELATIVE DENSITY, UNLESS OTHERWISE NOTED IN THE GEOTECHNICAL REPORT.
7. FOOTINGS AND GRADE BEAMS SHALL BE CENTERED UNDER BEARING WALLS ABOVE, UNLESS OTHERWISE NOTED.
8. VERIFY LOCATIONS FOR OPENINGS OR PENETRATIONS THROUGH CONCRETE, CONCRETE CURBS, FLOOR DEPRESSIONS, FLOOR SLOPES AND DRAINS, INSERTS, ETC. PRIOR TO POURING CONCRETE. COORDINATE WITH ARCHITECTURAL AND OTHER DRAWINGS.

CONCRETE NOTES

1. ALL CONCRETE CONSTRUCTION SHALL BE PER THE CBC, CHAPTER 19 AND IN ACCORDANCE WITH ACI 301 STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE, LATEST EDITION.
2. CONCRETE FOR STRUCTURAL AND FOUNDATION ELEMENTS SHALL OBTAIN A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI.
3. CONCRETE FOR SLAB ON GRADE SHALL OBTAIN A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI.
4. CONCRETE MIX SHALL MEET REQUIREMENTS OF CBC SECTION 1905 AND SHALL MEET THESE MINIMUM CONCRETE MIX REQUIREMENTS: MAXIMUM OF WATER–CEMENT RATIO OF 0.45 FOR FOOTING AND 0.42 FOR SLAB, MAXIMUM OF 4” SLUMP. CEMENT SHALL CONFORM TO ASTM C150, TYPE II (OR ENGINEERED MAXIMUM DESIGN TO STRENGTH) AND TYPE V CEMENT WHERE SOIL CONTAINS MORE THAN 0.2 % SULFATE CONCENTRATIONS. ALL ALTERNATE CONCRETE MIX DESIGN AND TEST STRENGTHS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL PRIOR TO CONSTRUCTION.
5. HARD ROCK AGGREGATES SHALL CONFORM TO ASTM C33. MAXIMUM NORMAL SIZE OF AGGREGATE SHALL NOT EXCEED 1 1/2 INCHES FOR FOUNDATION CONCRETE AND 3/4 INCH FOR STRUCTURAL CONCRETE ABOVE THE FOUNDATION. SEE ALSO THE REQUIREMENTS IN ACI STANDARD SPECIFICATIONS. MAXIMUM NORMAL SIZE SHALL ALSO BE SELECTED SUCH THAT WORKABILITY AND PLACEABILITY OF CONCRETE ARE FACILITATED.
6. MAXIMUM VERTICAL DROP OF CONCRETE SHALL BE NO MORE THAN 2’–0” FROM END OF PLACEMENT DEVICE TO PLACEMENT SURFACE.
7. CONCRETE CLEAR COVER TO FACE OF REINFORCING SHALL BE AS FOLLOWS:
A. PLACED AGAINST EARTH 3”
B. EXPOSED TO EARTH OR WEATHER BUT POURED AGAINST FORMS (#6 & LARGER) 2”
C. EXPOSED TO EARTH OR WEATHER BUT POURED AGAINST FORMS (#5 & SMALLER) 1½”
D. BARS PARALLEL TO COLD JOINTS 2”
E. WALL REINFORCING (UNLESS GOVERNED BY EXPOSURE INDICATED ABOVE) 3/4”
F. SLABS ON GRADE (EXCEPT FOR MATS), REBAR AT CENTER OF SLAB
8. ALL REINFORCING STEEL, DOWELS, ANCHOR BOLTS, AND OTHER INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING OF CONCRETE.
9. ANCHOR BOLTS SHALL HAVE A MINIMUM EMBEDMENT INTO CONCRETE 12 TIMES BOLT DIAMETER, UNLESS NOTED OTHERWISE.
- 10.WHERE CONCRETE IS INTEGRATED WITH EXISTING CONCRETE, THE EXISTING CONCRETE AND REINFORCING BARS SHALL NOT BE DAMAGED. THE INTERFACE SHALL BE ROUGHENED TO A FULL ¼” AMPLITUDE.
- 11.LOCATIONS OF CONSTRUCTION JOINTS IN SLAB ON GRADE OTHER THAN SHOWN ON THE DRAWINGS MUST BE APPROVED BY THE ARCHITECT.
- 12.VAPOR BARRIER UNDER SLAB ON GRADE SHALL BE 20 MIL MINIMUM AND CONFORM TO ASTM E1745 CLASS A.

REINFORCING BAR NOTES

1. REINFORCING STEEL SHALL BE NEW DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
2. WELDED BARS SHALL CONFORM TO ASTM A706.
3. ALL BARS SHALL BE FREE OF LOOSE AND FLAKY RUST AND SCALE, GREASE, OR OTHER MATERIALS WHICH MIGHT AFFECT OR IMPAIR BOND.
4. FIELD BENDING OF BARS THAT ARE IN PLACE IS NOT PERMITTED EXCEPT BARS IN SLAB ON GRADE MAY BE BENT ONE TIME.
5. REINFORCING SHALL HAVE A MINIMUM LAP IN CONFORMANCE WITH DETAILS AND SPECIFICATIONS SHOWN ON THESE DRAWINGS. LAPS SPLICES SHALL BE STAGGERED WHEREVER POSSIBLE.
6. ELECTRIC WELDED WIRE MESH SHALL CONFORM TO ASTM A185, EXCEPT AT SLABS ON GRADE WHICH MAY BE GRADE 40.

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING:
W AND WT SHAPES ASTM A992 (Fy=50ksi)
HSS SHAPES ASTM A500, GRADE B
OTHER SHAPES ASTM A36
PLATES ASTM A36
ELECTRODES ASTM E70XX
HIGH STRENGTH BOLTS ASTM A325–X
MACHINE BOLTS ASTM A36
ANCHOR BOLTS ASTM F1554, GRADE 36
WELDED STUDS ASTM A108
2. ALL STRUCTURAL STEEL SHALL CONFORM TO AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OFSTRUCTURAL STEEL FOR BUILDINGS.
3. BOLT HOLES SHALL BE 1/16” OVERSIZED, EXCEPT AT BASE PLATES WHERE THEY CAN BE 5/16” OVERSIZED.
4. ALL SHOP AND FIELD WELDING SHALL BE INSPECTED BY AN APPROVED TESTING LABORATORY. SPECIAL INSPECTION REQUIREMENTS OF CBC, CHAPTER 17, APPLY TO ALL WELDING.
5. ALL WELDING TO CONFORM TO THE REQUIREMENTS OF THE LATEST AWS STRUCTURAL WELDING CODE AND SHALL BE PERFORMED BY CERTIFIED WELDERS.
6. ALL WELDS NOT SPECIFIED SHALL BE CONTINUOUS FILLET WELDS, USING NOT LESS THAN THE MINIMUM SIZES BASED ON THICKNESS OF THICKER PART JOINED PER AISC/AWS, AND IN NO CASE LESS THAN 1/4” UNLESS NOTED OTHERWISE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES ESPECIALLY WITH RELATION TO TEMPERATURE DIFFERENTIALS, ERECTION TOLERANCES, AND WITH RESPECT TO STRUCTURAL STEEL FRAMING INTO REINFORCED CONCRETE WALLS.
8. ALL WELDS USED IN MEMBERS AND CONNECTIONS IN THE SEISMIC LOAD LATERAL RESISTING SYSTEM SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPY V–NOTCH TOUGHNESS OF 20 FT–LB AT 0 DEGREES FAHRENHEIT AS DETERMINED BY THE APPROPRIATE AWS A5 CLASSIFICATION TEST METHOD OR MANUFACTURER CERTIFICATION.
9. STEEL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO STEEL FABRICATION. AS A MINIMUM, THE SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING:
A. STRUCTURAL STEEL MEMBERS AND MATERIALS
B. CONNECTION PLATES AND BOLTS DRAWN TO SCALE, INCLUDING MATERIALS AND SIZES
C. WELDS AND LOCATIONS OF DEMAND CRITICAL WELDS, WHERE APPLICABLE
D. LOCATIONS AND DIMENSIONS OF PROTECTED ZONES, WHERE APPLICABLE
E. WELDING REQUIREMENTS, WHERE APPLICABLE, PER AISC 341 AND AISC 358 LATEST EDITION.

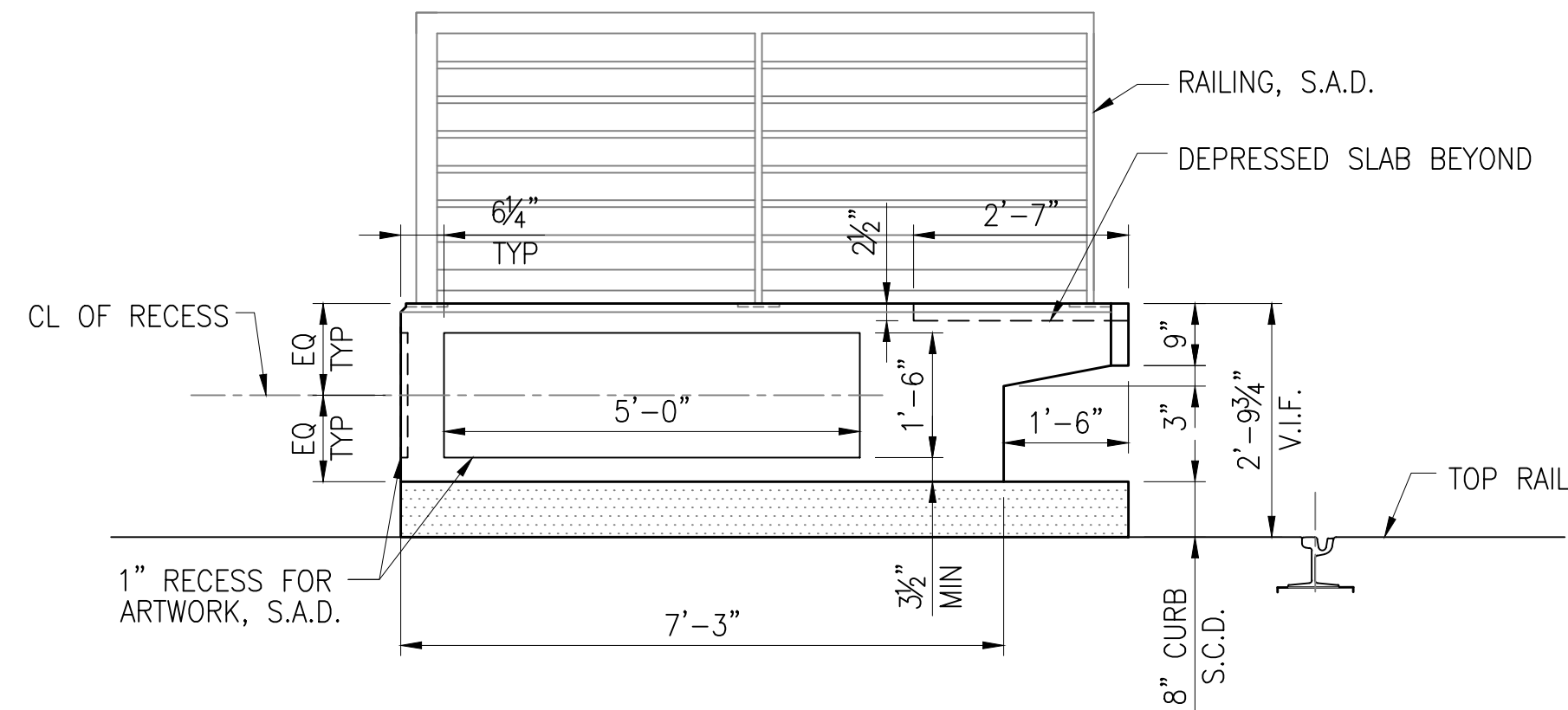
DESIGN CRITERIA

1. VERTICAL LOADS:
a. DEAD LOADS:
i. RAMP AND PLATFORM LOAD: 15 PSF
b. LIVE LOADS:
i. RAMP AND PLATFORM LOAD: 100 PSF
2. LATERAL LOADS:
a. WIND (PER THE CBC, SECTION 1609):
RISK CATEGORY: II
BASIC WIND SPEED: 92 MPH
EXPOSURE CATEGORY: C
b. SEISMIC (PER THE CBC, SECTION 1613):
RISK CATEGORY II
SEISMIC DESIGN CATEGORY D
SITE CLASS D
LATERAL FORCE RESISTING SYSTEM: SPECIAL REINFORCED CONCRETE SHEAR WALLS
RESPONSE MODIFICATION FACTOR R = 5
IMPORTANCE FACTOR I = 1.0
FUNDAMENTAL PERIOD T_a = 0.3
DESIGN SHORT PERIOD ACCELERATION S_{DS} = 1.17
DESIGN ONE SECOND ACCELERATION S_{D1} = 1.19
SEISMIC RESPONSE COEFFICIENT C_s = 0.4
3. FOUNDATION ALLOWABLE BEARING PRESSURES:
a. DEAD LOAD 1500 PSF
b. DEAD LOAD + LIVE LOAD 2000 PSF
c. DEAD LOAD + LIVE LOAD + LATERAL LOAD 2667 PSF
4. FOUNDATION ALLOWABLE SKIN FRICTION:
a. SOIL–CONCRETE FRICTION COEFFICIENT: 0.3

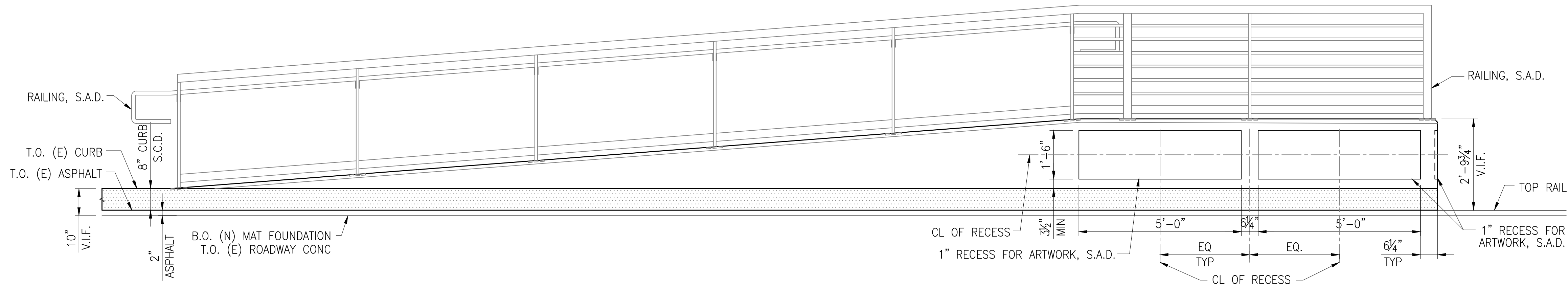
TEST, INSPECTIONS AND OBSERVATIONS NOTES

1. TESTS AND INSPECTIONS SHALL BE PROVIDED FOR ALL ITEMS AS REQUIRED BY THE CBC, CHAPTER 17.
2. THE OWNER SHALL BE RESPONSIBLE FOR RETAINING AN INDEPENDENT TESTING AND INSPECTION LABORATORY TO PERFORM ALL REQUIRED TESTING AND INSPECTIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TESTING AND INSPECTION LABORATORY WITH CONSTRUCTION SCHEDULES TO ENSURE PROPER COORDINATION OF WORK.
4. THE FOLLOWING ITEMS SHALL BE INSPECTED BY AN APPROVED TESTING AND INSPECTION LABORATORY:
A. CONCRETE (CBC 1705.3) DURING THE TAKING OF TEST SPECIMENS AND PLACING OF REINFORCED CONCRETE.
B. REINFORCING STEEL (CBC 1705.3) DURING PLACING OR REINFORCING STEEL FOR CONFORMANCE TO THE APPROVED PLANS PRIOR TO THE CLOSING OF FORMS OR THE DELIVERY OF CONCRETE TO THE JOBSITE.
C. GRADING, EXCAVATION AND FILLING (CBC CHAPTER 18 AND APPENDIX J).
D. NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS OF SHEARWALLS WITH EDGE NAIL SPACING LESS THAN OR EQUAL TO 4”O.C. (CBC 1705.13.2).
E. STRUCTURAL WELDING (CBC 1705.2).
F. STEEL CONSTRUCTION (CBC 1705.2).
G. HOLDDOWNS CONNECTED TO CONCRETE OR MASONRY WITH ADHESIVE (CBC 1705.13.2).
H. GROUTED ANCHORS AND DOWELS – SEE ‘ADHESIVE (GROUTED) ANCHORS AND DOWELS IN HARDENED CONCRETE OR MASONRY NOTES’ SECTION (CBC 1705.13.2).
I. MASONRY CONSTRUCTION (CBC 1705.4).
5. IN ADDITION TO SPECIAL INSPECTIONS, THE FOLLOWING SPECIFIED ITEMS SHALL HAVE PERIODIC STRUCTURAL OBSERVATION BY THE STRUCTURAL ENGINEER OF RECORD:
A. REINFORCING STEEL PRIOR TO CONCRETE POUR
B. CONCRETE UNIT MASONRY REINFORCING PRIOR TO POUR
C. HOLDDOWNS IN WALLS, CONCRETE AND MASONRY
D. NAILING OF PLYWOOD ON WALLS, FLOORS AND ROOFS
E. STRUCTURAL STEEL CONSTRUCTION
6. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OR INSPECTOR A MINIMUM OF 48 HOURS (EXCLUDING WEEKEND DAYS) PRIOR TO THE TIME OF REQUIRED INSPECTION AND OBSERVATION.

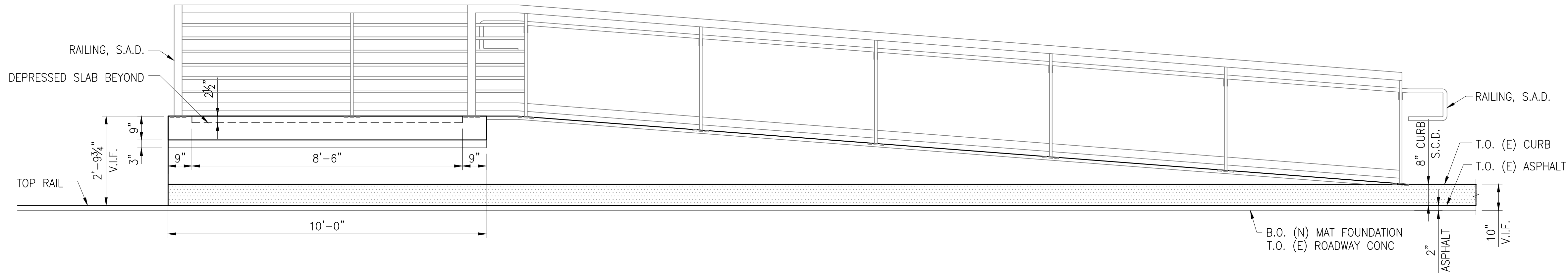
							NOT FOR CONSTRUCTION	DESIGNED		 CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY 	MUNI METRO SYSTEM		CONTRACT	1335
								DRAWN			J MUNI FORWARD: CHURCH & MARKET		DRAWING	CL-####
								CHECKED						
								REVIEWED						
							RECOMMENDED						ST-01	REVISION
							APPROVED						ST-XX	0
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REVISIONS														



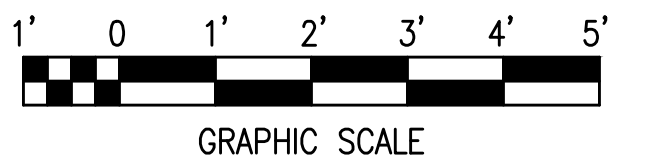
1 CHURCH ST. AT RESERVOIR ST. MINI-HIGH RAMP - SOUTH ELEVATION
SCALE: 1/2" = 1'-0"



2 CHURCH ST. AT RESERVOIR ST. MINI-HIGH RAMP - WEST ELEVATION
SCALE: 1/2" = 1'-0"

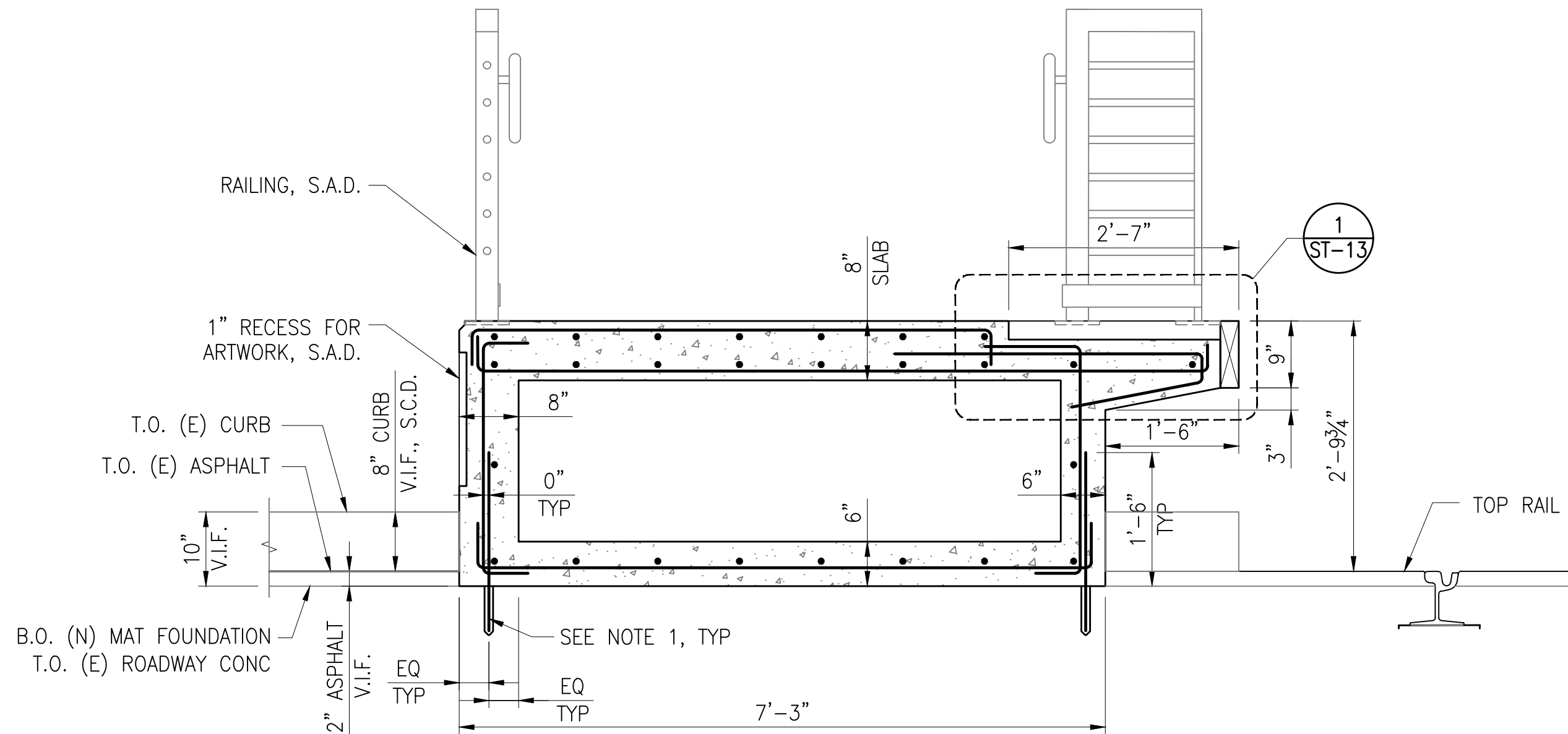


3 CHURCH ST. AT RESERVOIR ST. MINI-HIGH RAMP - EAST ELEVATION
SCALE: 1/2" = 1'-0"

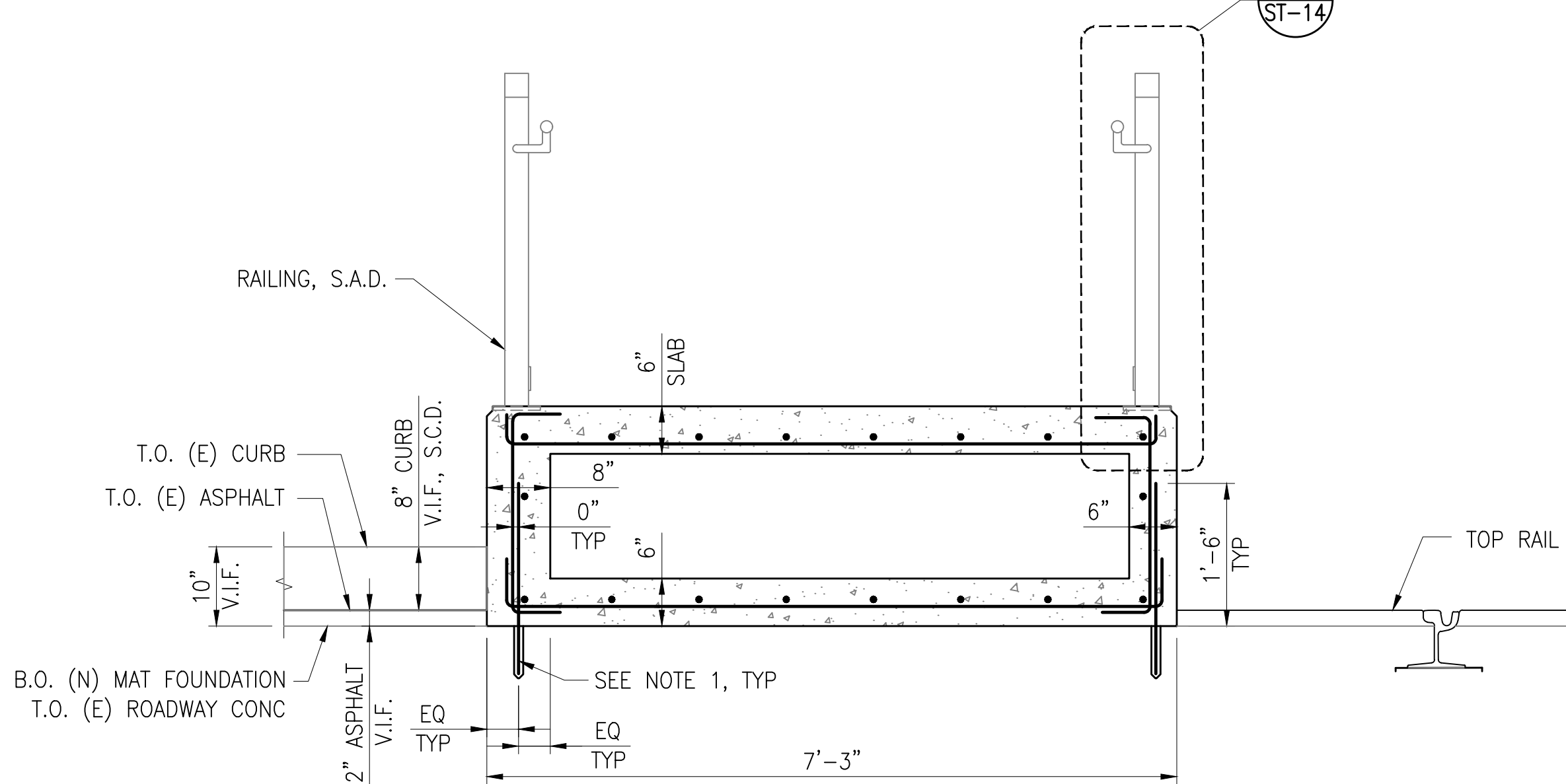


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							NOT FOR CONSTRUCTION	DESIGNED DRAWN CHECKED REVIEWED RECOMMENDED APPROVED DATE	SEAL OF THE CITY AND COUNTY OF SAN FRANCISCO CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY SFMTA	MUNI METRO SYSTEM		CONTRACT 1335						
										J MUNI FORWARD: CHURCH & MARKET		DRAWING CL-#####						
										STRUCTURAL ELEVATIONS OUTBOUND PLATFORM CHURCH ST. AT MARKET ST.		ST-11						
												ST-XX						
											0							
NO. DATE DESCRIPTION REVISED CHECKED APPROVED																		
REVISIONS																		



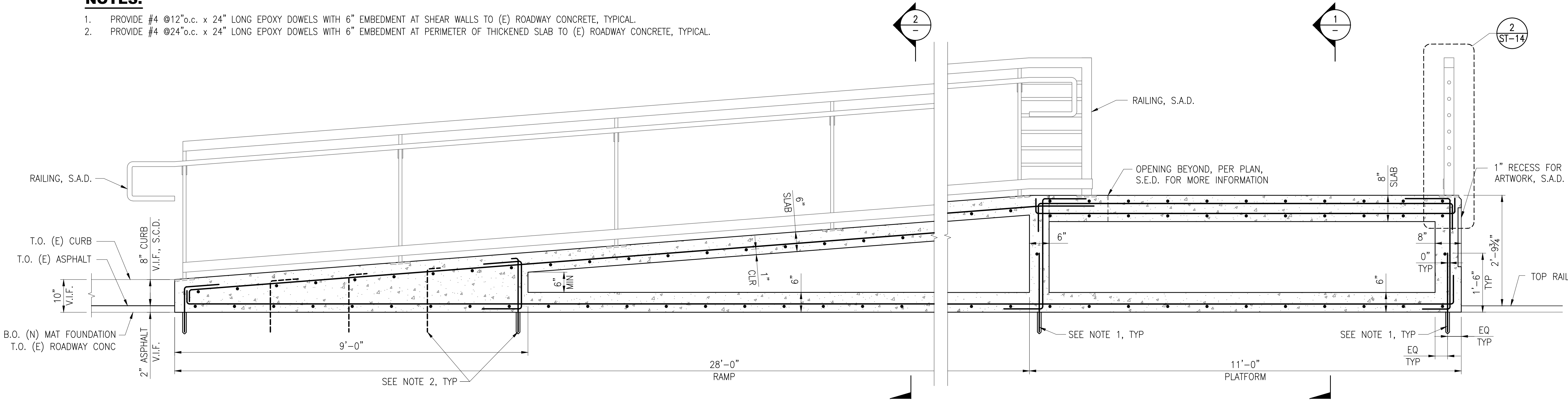
1 CHURCH ST. AT MARKET ST. MINI-HIGH RAMP - SECTION AT PLATFORM
SCALE: 3/4" = 1'-0"



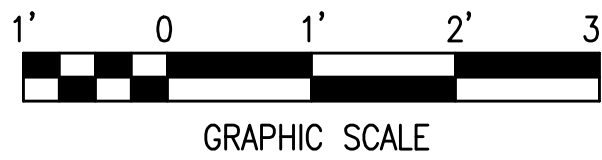
2 CHURCH ST. AT MARKET ST. MINI-HIGH RAMP - SECTION AT RAMP
SCALE: 3/4" = 1'-0"

NOTES:

1. PROVIDE #4 @12"o.c. x 24" LONG EPOXY DOWELS WITH 6" EMBEDMENT AT SHEAR WALLS TO (E) ROADWAY CONCRETE, TYPICAL.
2. PROVIDE #4 @24"o.c. x 24" LONG EPOXY DOWELS WITH 6" EMBEDMENT AT PERIMETER OF THICKENED SLAB TO (E) ROADWAY CONCRETE, TYPICAL.

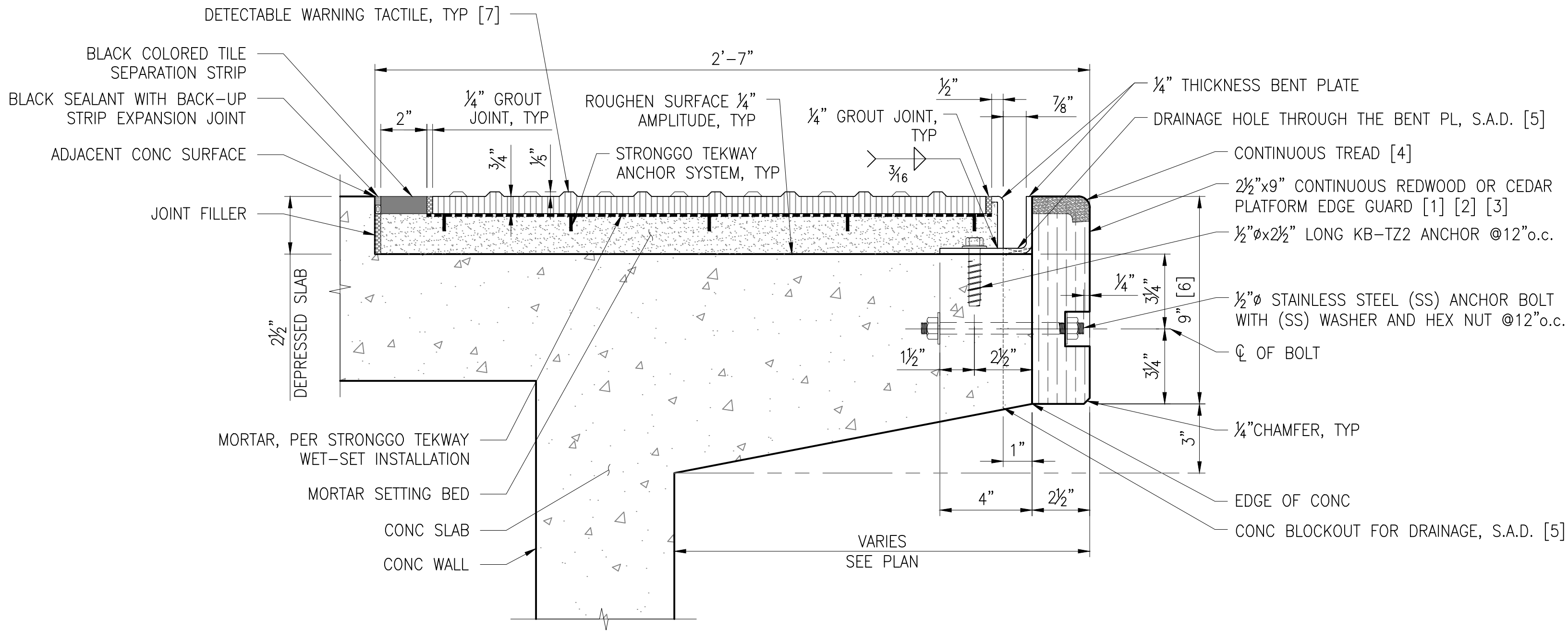


3 CHURCH ST. AT MARKET ST. MINI-HIGH RAMP - LONGIDITUNAL SECTION
SCALE: 3/4" = 1'-0"



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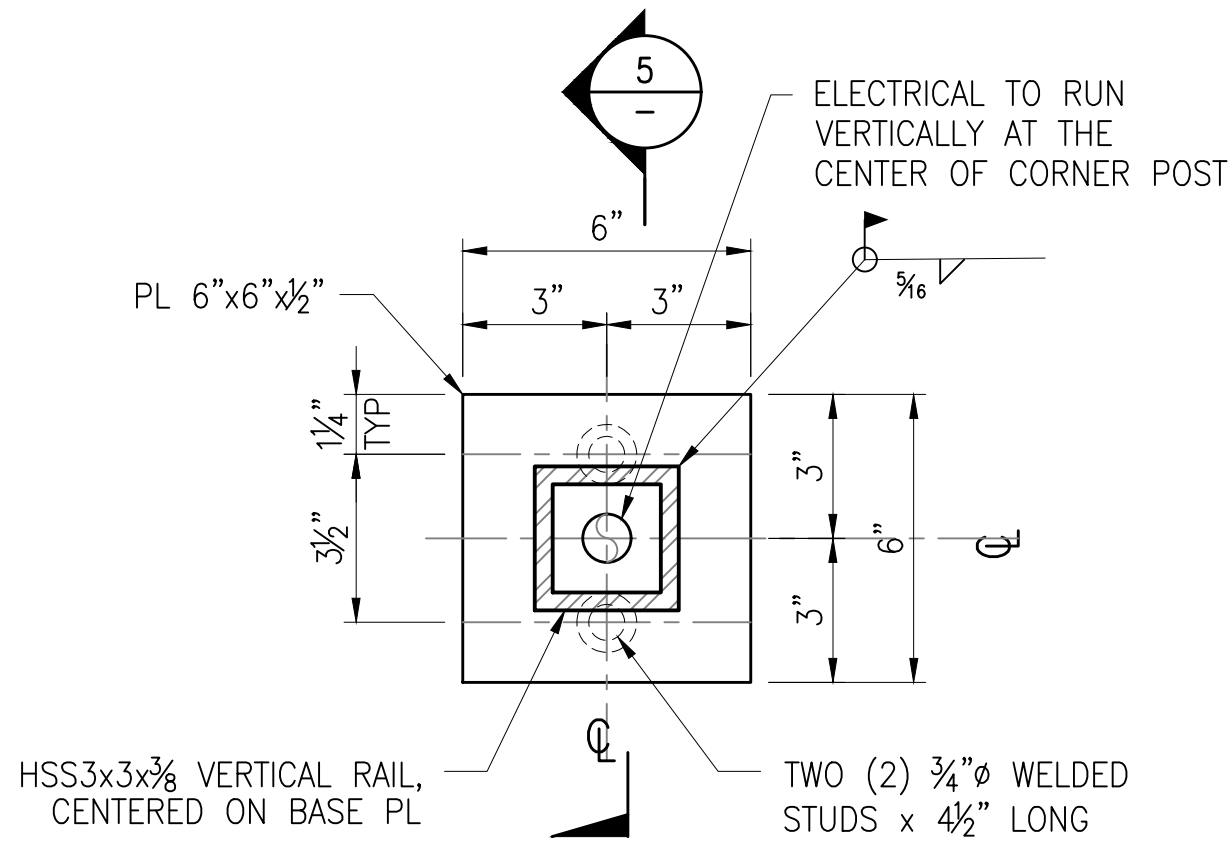
							NOT FOR CONSTRUCTION	DESIGNED DRAWN CHECKED REVIEWED RECOMMENDED APPROVED DATE	 CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY 	MUNI METRO SYSTEM		CONTRACT	1335	
J MUNI FORWARD: CHURCH & MARKET										DRAWING	CL-####			
STRUCTURAL SECTIONS OUTBOUND PLATFORM CHURCH ST. AT MARKET ST.										ST-12	REVISION			
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NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED									
REVISIONS														



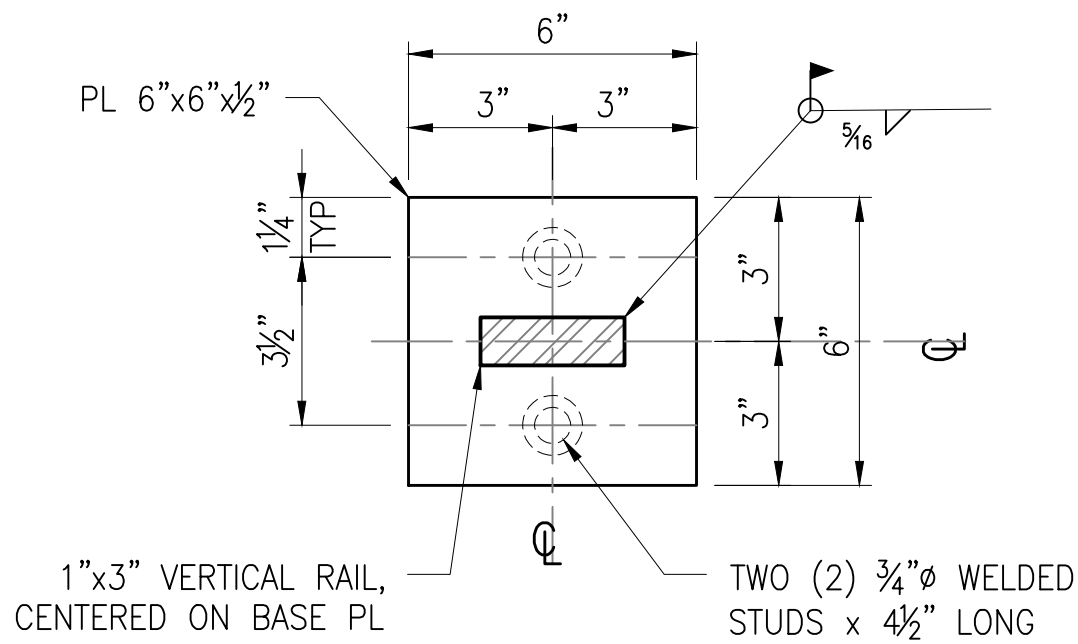
- NOTES:**
1. THE PLATFORM EDGE GUARD WIDTH SHALL BE 2½”-PLUS TO ALLOW FOR CONCRETE IMPERFECTIONS AND TO MAINTAIN THE DISTANCE FROM THE TRACK CENTERLINE TO THE FACE OF THE EDGE GUARD OF 4’-7⅞”(+0”/-⅝”).
 2. REDWOOD OR CEDAR FOR EDGE GUARD SHALL BE CLEAR, ALL HEART, VERTICAL GRAIN AND DRY WOOD WITH A MOISTURE CONTENT OF 15% OR LESS. THE EDGE GUARD SHALL BE COMPLETELY COATED/STAINED WITH OLYMPIC WATER REPELLENT OIL STAIN PER THE MANUFACTURERS REQUIREMENTS. STAIN COLOR SHALL BE SEMI-TRANSPARENT COLOR NUMBER 910.
 3. THE PLATFORM EDGE GUARD ENDS SHALL BE PLUMB AND ALIGNED WITH THE CONCRETE VERTICAL SURFACES.
 4. TREAD SHALL BE SPECTRA TYPE WP2T SAFETY YELLOW SSY-10 BY WOOSTER PRODUCTS, INC. FASTEN TOP OF TREAD WITH #10 x 1” LONG STAINLESS STEEL PHILLIPS DRIVE FLAT RECESSED HEAD WOOD OR SHEET METAL SCREWS AT 3” FROM EACH END AND ON A MAXIMUM OF 12” EQUALLY SPACED CENTERS.
 5. AT 9” TO 13” FROM THE LOW END OF THE PLATFORM EDGE, THE ¼” STAINLESS STEEL BENT PLATE SHALL HAVE A ¾” BY 3” LONG SLOTTED HOLE, AND THE PLATFORM CONCRETE SHALL HAVE A 1” BY 4” BLOCK-OUT BELOW THE SLOT, ADJACENT TO THE EDGE GUARD AND FROM BOTTOM OF BENT PLATE TO BOTTOM OF PLATFORM CONCRETE, TO ALLOW FOR WATER TO DRAIN FROM THE BENT PLATE. SEE ARCH DWG FOR EXACT LOCATION.
 6. DIMENSION IS PERPENDICULAR TO RAIL PROFILE.
 7. DETECTABLE WARNING AT KEY STOP WILL BE STRONGGO TEKWAY DOME – TILE. SEE ARCH DWG FOR EXACT LAYOUT.

1 **PLATFORM EDGE DETAIL**
SCALE: 3" = 1'-0"

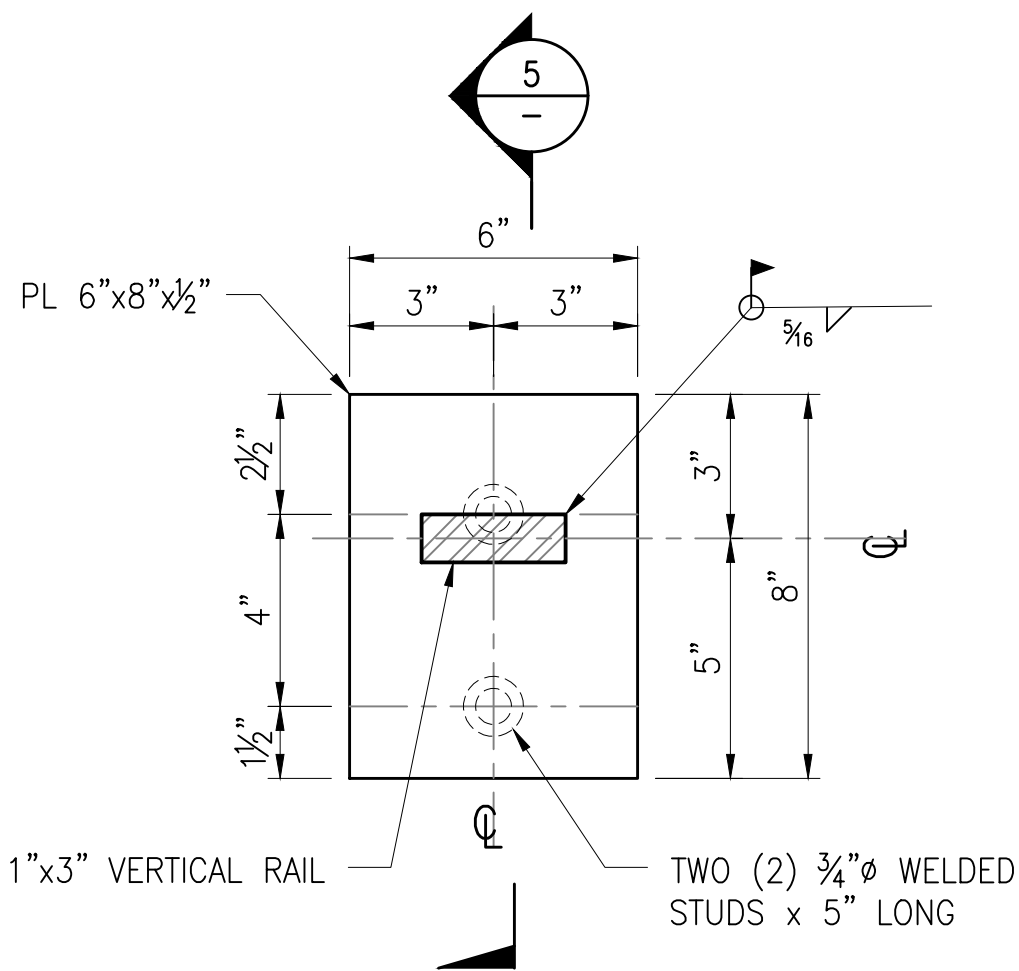
AT HSS3x3 RAIL POST



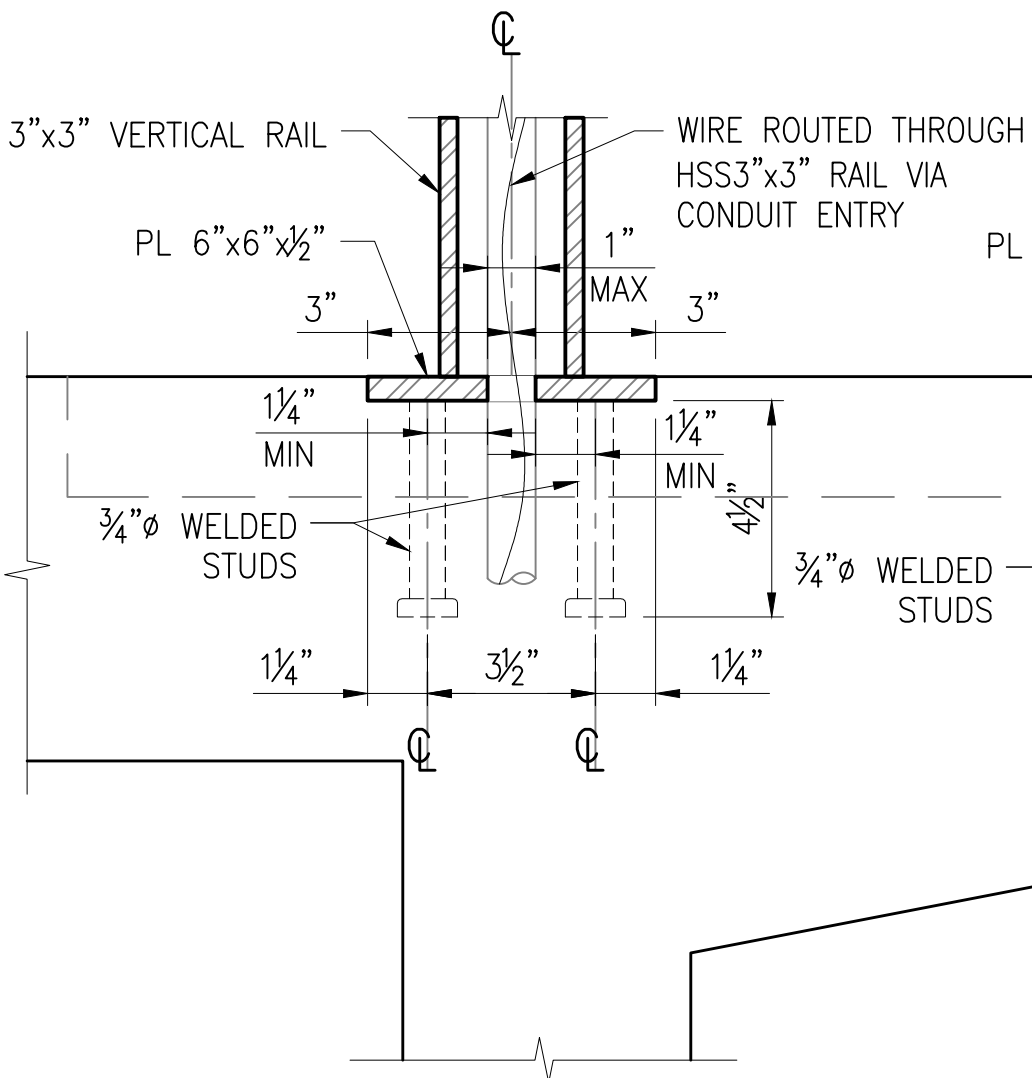
AT 1x3 VERTICAL RAIL



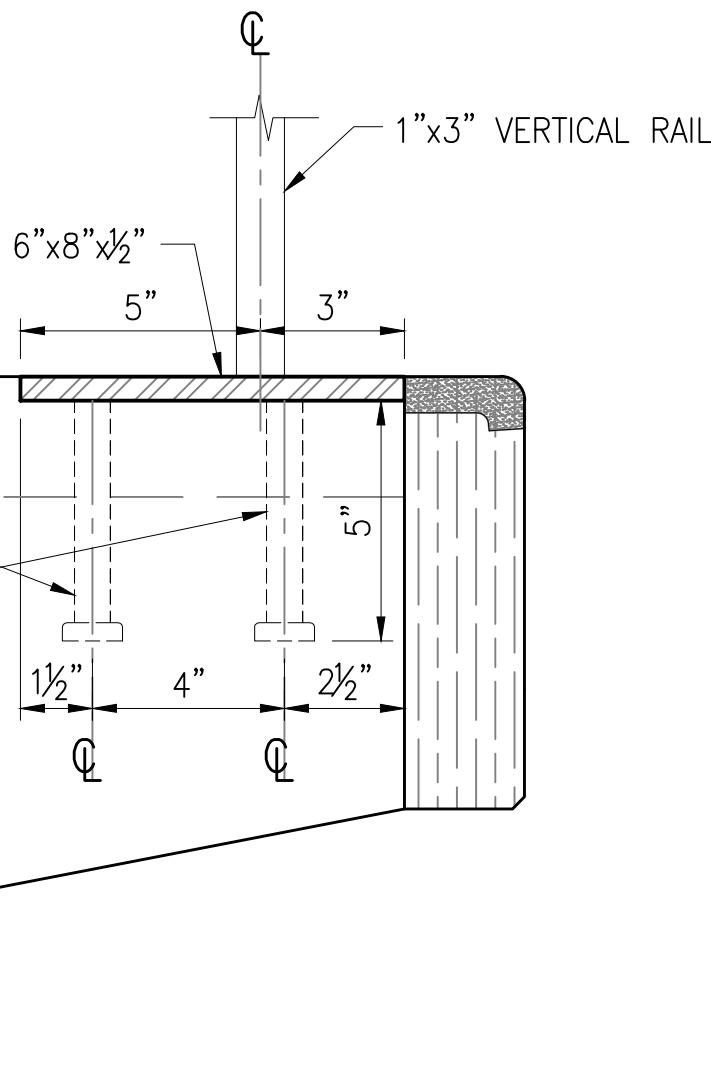
TYPICAL 1x3 VERTICAL RAIL AT
EDGE OF THE PLATFORM



3x3 VERTICAL RAIL



1x3 VERTICAL RAIL AT EDGE

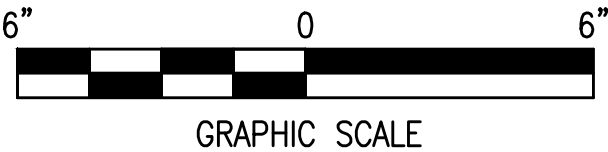


2 **TYPICAL RAILING DETAIL PLAN**
SCALE: 3" = 1'-0"

3 **TYPICAL RAILING DETAIL PLAN**
SCALE: 3" = 1'-0"

4 **TYPICAL RAILING DETAIL PLAN**
SCALE: 3" = 1'-0"

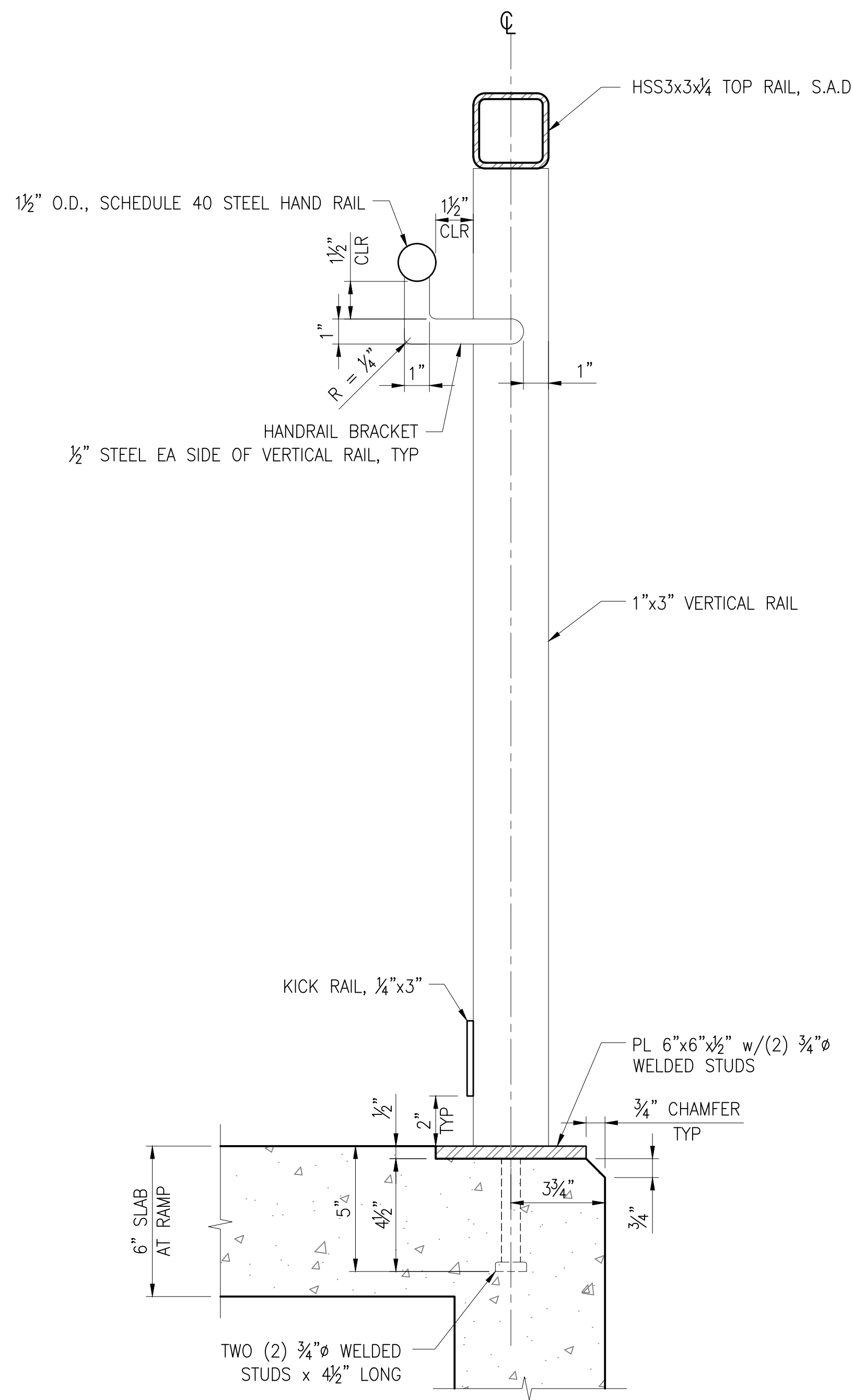
5 **RAILING DETAIL SECTION AT BOARDING EDGE OF THE PLATFORM**
SCALE: 3" = 1'-0"



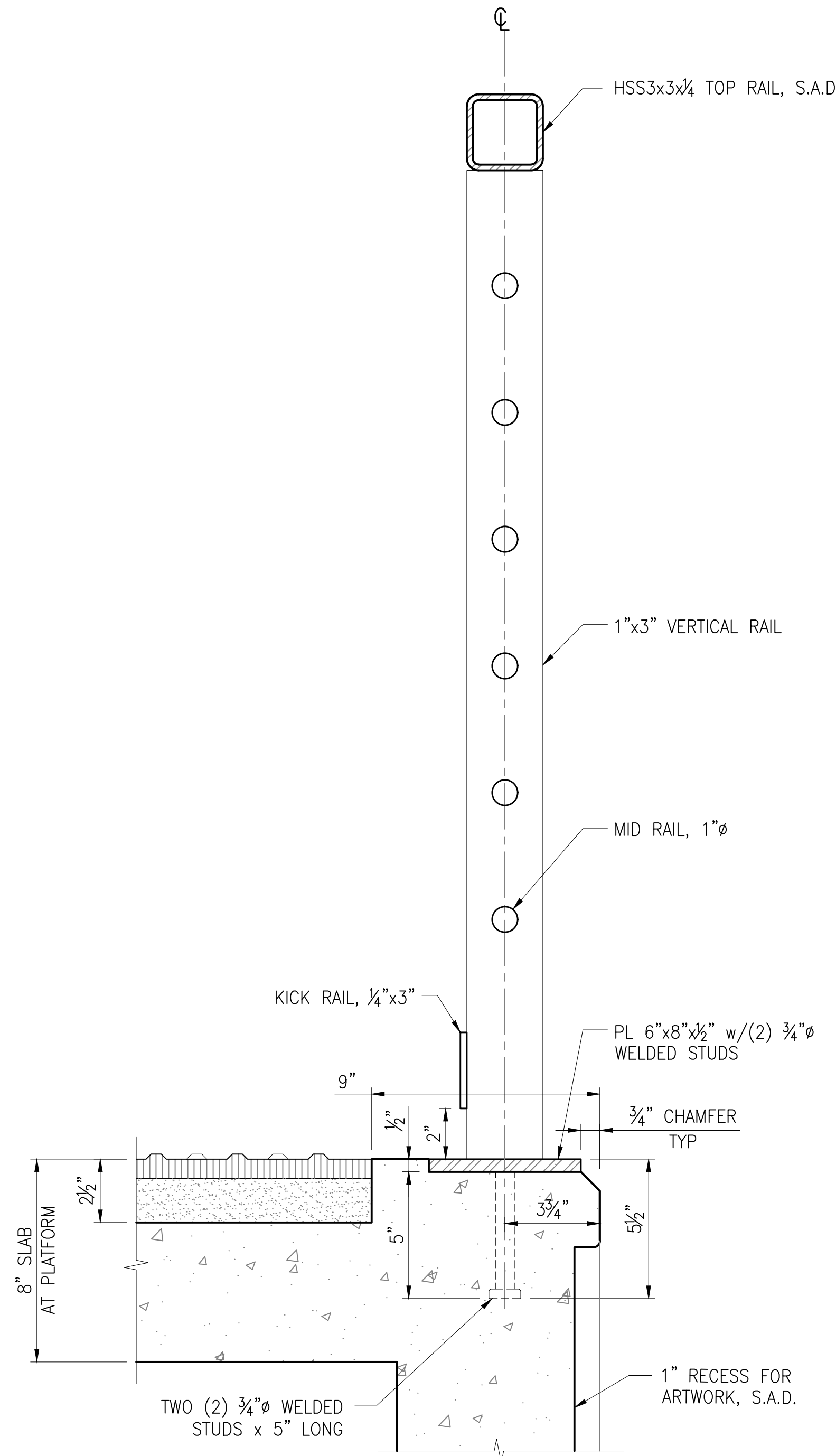
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							NOT FOR CONSTRUCTION	DESIGNED DRAWN CHECKED REVIEWED RECOMMENDED APPROVED DATE	CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY SFMTA	MUNI METRO SYSTEM		CONTRACT 1335			
										J MUNI FORWARD: CHURCH & MARKET		DRAWING CL-#####			
										STRUCTURAL DETAILS		ST-13			
										OUTBOUND & INBOUND PLATFORM		ST-XX			
													0		

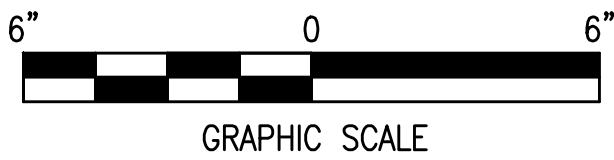
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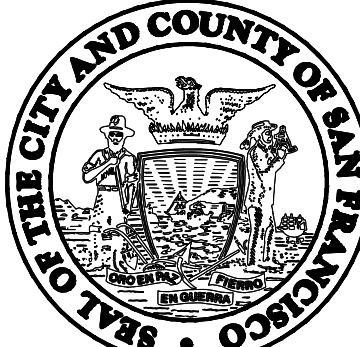


1
- RAILING DETAIL SECTION
SCALE: 3" = 1'-0"

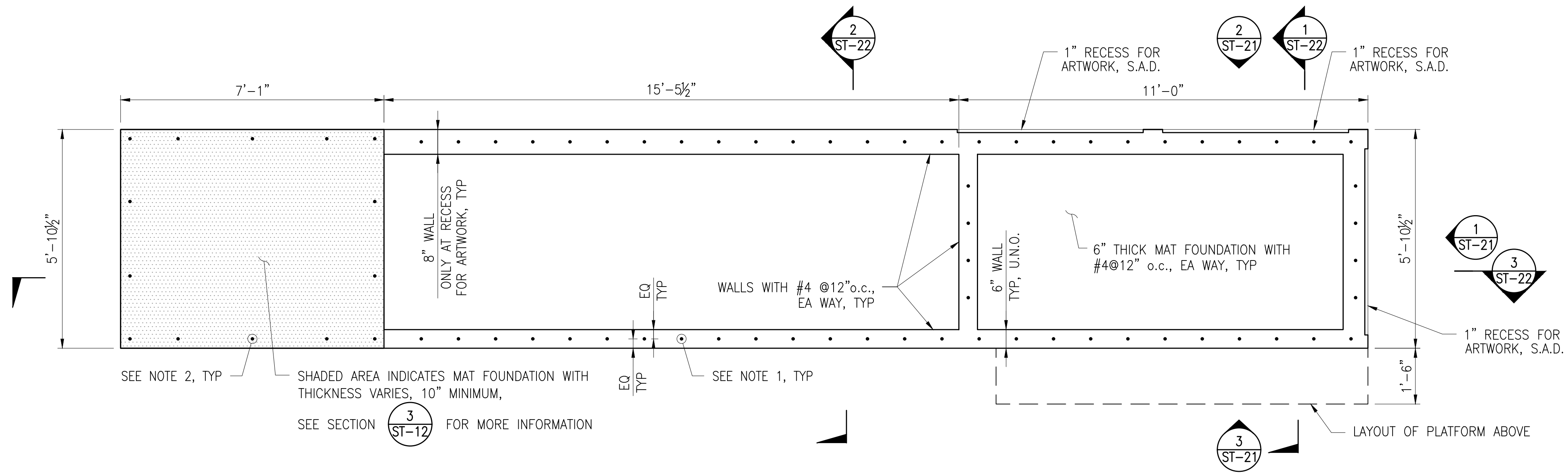


2
- RAILING DETAIL SECTION
SCALE: 3" = 1'-0"



						NOT FOR CONSTRUCTION	DESIGNED DRAWN CHECKED REVIEWED RECOMMENDED APPROVED DATE	 CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY 	MUNI METRO SYSTEM J MUNI FORWARD: CHURCH & MARKET		CONTRACT 1335				
										STRUCTURAL DETAILS OUTBOUND & INBOUND PLATFORM CHURCH ST. AT MARKET ST.		DRAWING CL-####			
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NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED	REVISIONS									

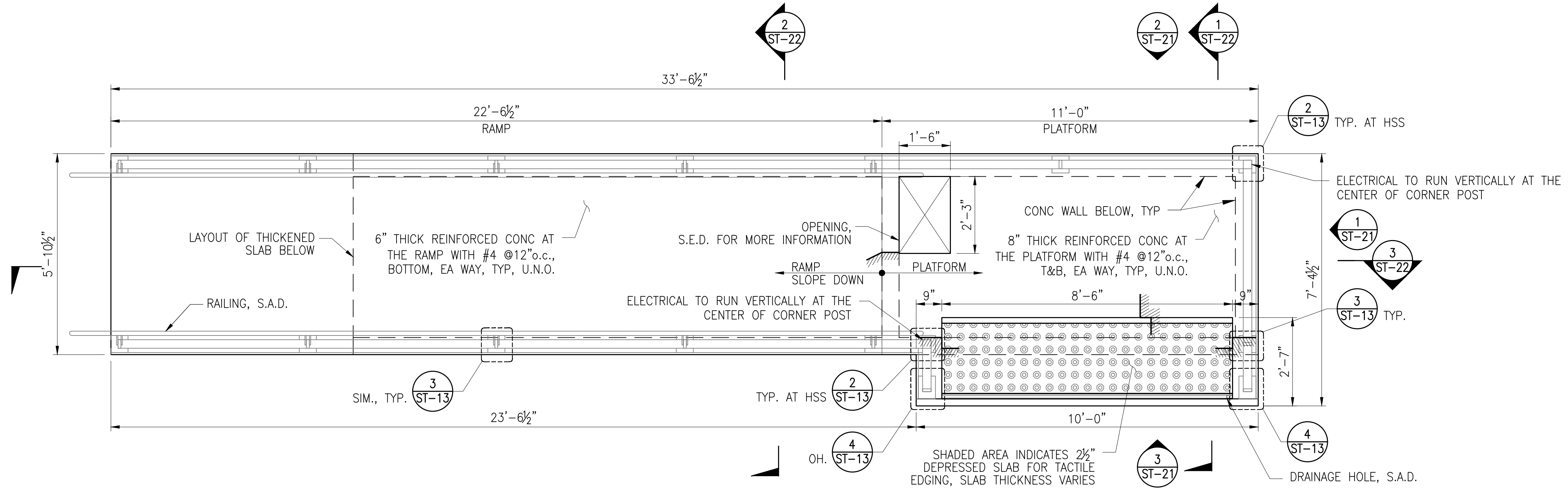
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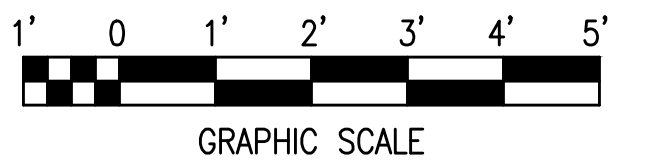
1 CHURCH ST. AT RESERVOIR ST. MINI-HIGH RAMP - FOUNDATION PLAN
SCALE: 1/2" = 1'-0"

NOTES:

1. PROVIDE #4 @12"o.c. x 24" LONG EPOXY DOWELS WITH 6" EMBEDMENT AT SHEAR WALLS TO (E) ROADWAY CONCRETE, TYPICAL.
2. PROVIDE #4 @24"o.c. x 24" LONG EPOXY DOWELS WITH 6" EMBEDMENT AT PERIMETER OF THICKENED SLAB TO (E) ROADWAY CONCRETE, TYPICAL.



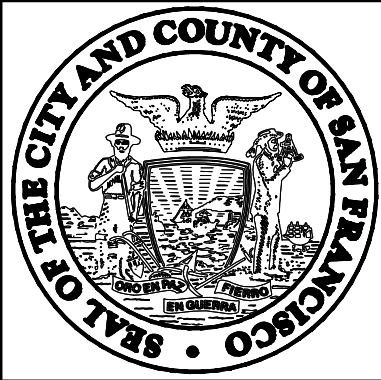
2 CHURCH ST. AT RESERVOIR ST. MINI-HIGH RAMP - PLATFORM PLAN
SCALE: 1/2" = 1'-0"



NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

NOT FOR CONSTRUCTION

DESIGNED
DRAWN
CHECKED
REVIEWED
RECOMMENDED
APPROVED
DATE



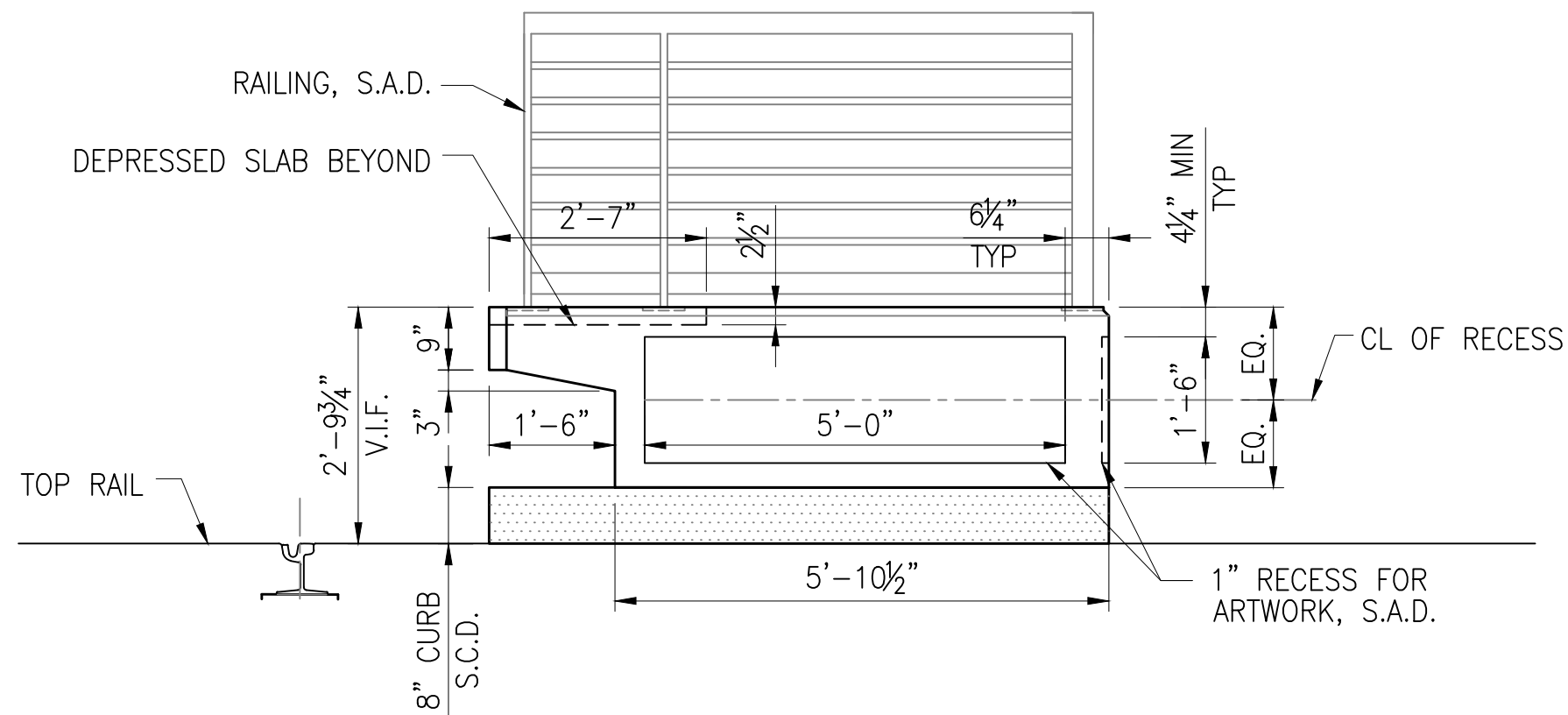
CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY



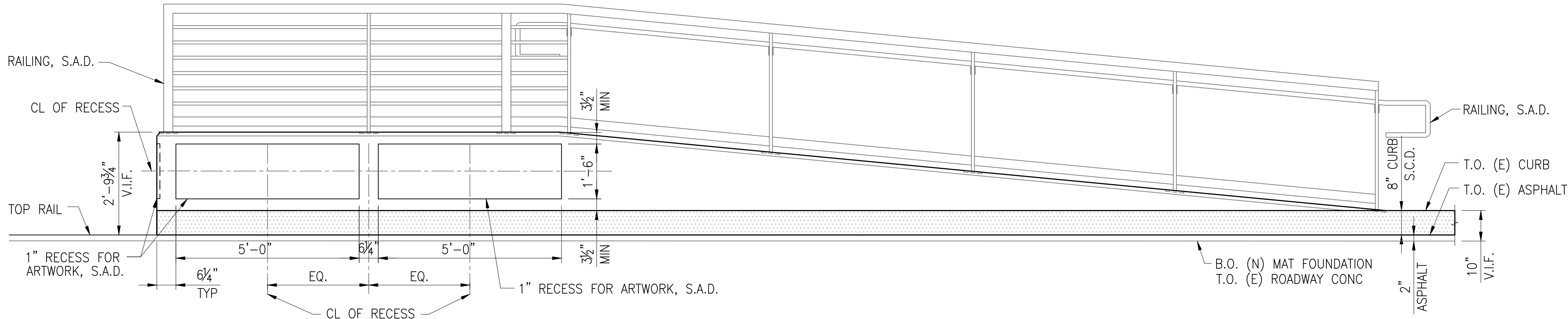
MUNI METRO SYSTEM
J MUNI FORWARD: CHURCH & MARKET

STRUCTURAL PLAN VIEWS
INBOUND PLATFORM
CHURCH ST. AT RESERVOIR ST.

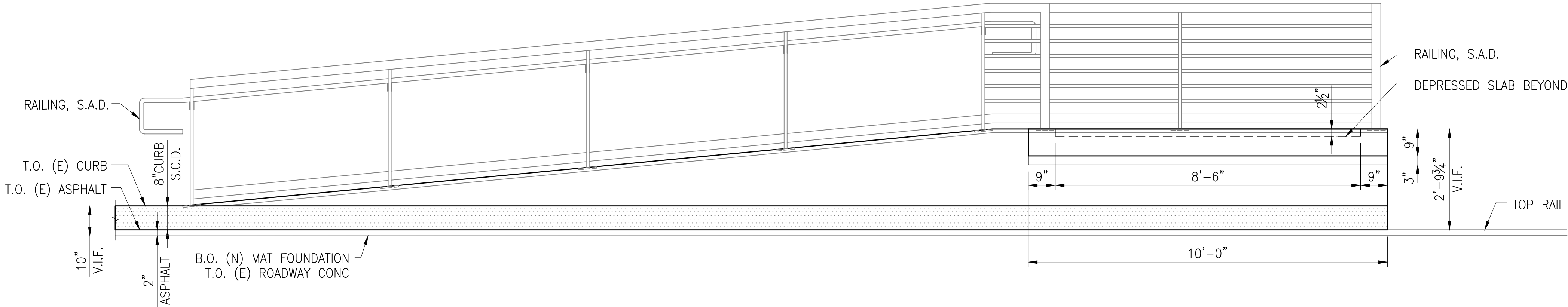
CONTRACT	1335
DRAWING	CL-#####
ST-20	REVISION
ST-XX	0



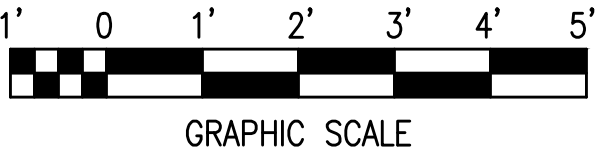
1 CHURCH ST. AT RESERVOIR ST. MINI-HIGH RAMP - SOUTH ELEVATION
SCALE: 1/2" = 1'-0"



2 CHURCH ST. AT RESERVOIR ST. MINI-HIGH RAMP - EAST ELEVATION
SCALE: 1/2" = 1'-0"



3 CHURCH ST. AT RESERVOIR ST. MINI-HIGH RAMP - WEST ELEVATION
SCALE: 1/2" = 1'-0"



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REVISIONS					
NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED

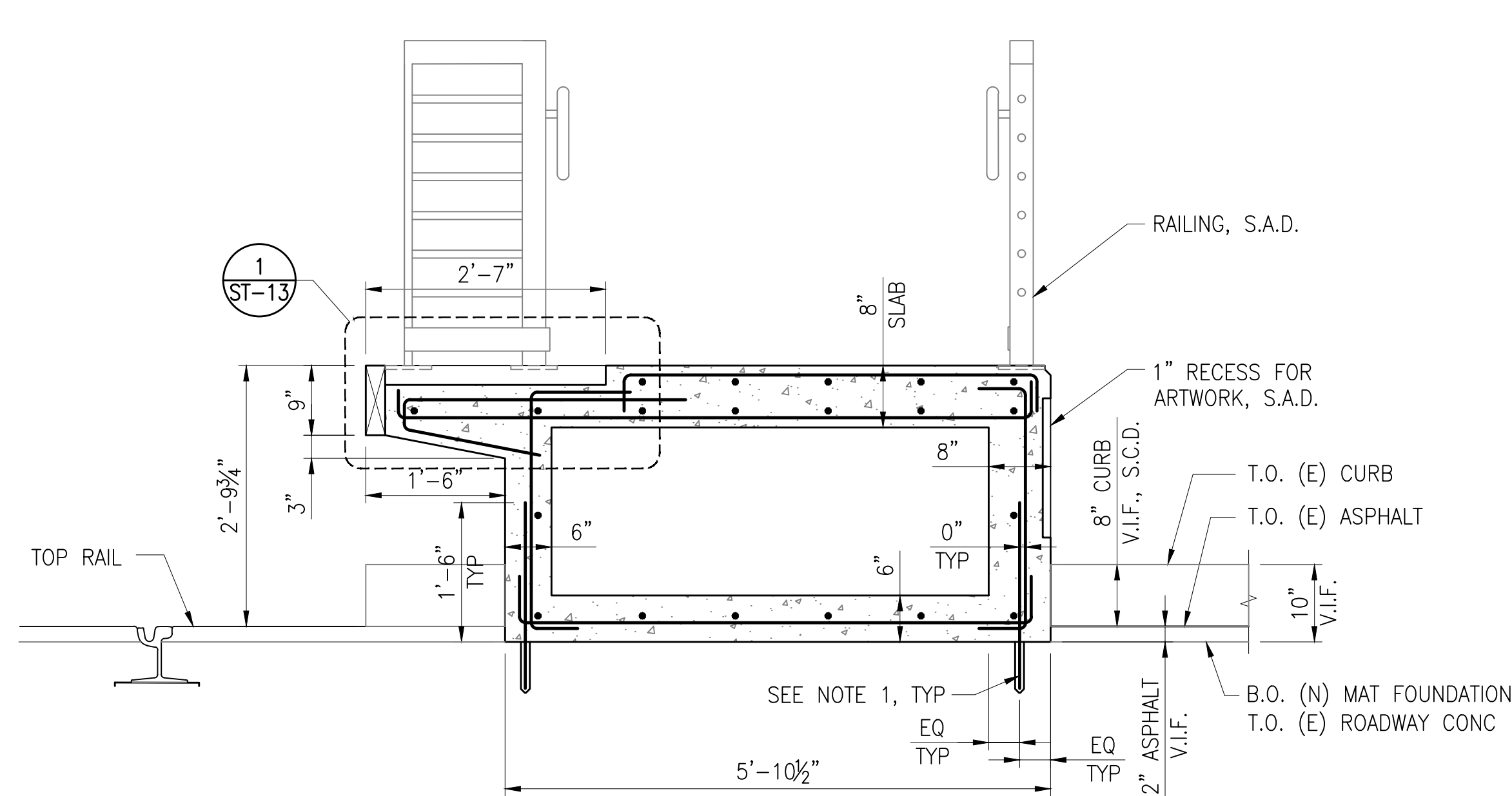
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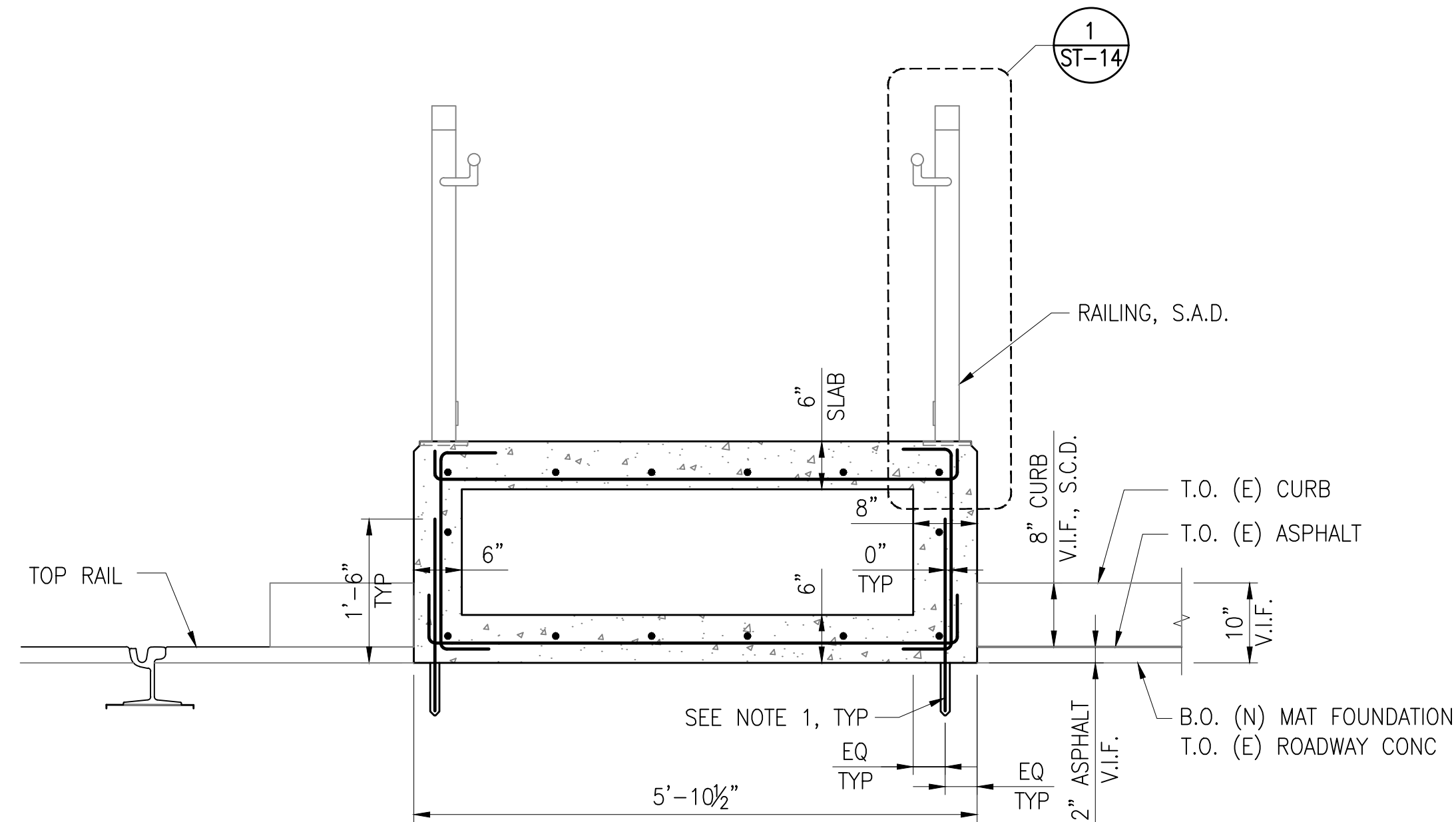
CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY



MUNI METRO SYSTEM		CONTRACT	1335
J MUNI FORWARD: CHURCH & MARKET		DRAWING	CL-####
STRUCTURAL ELEVATIONS INBOUND PLATFORM CHURCH ST. AT RESERVOIR ST.		ST-21	REVISION
		ST-XX	0



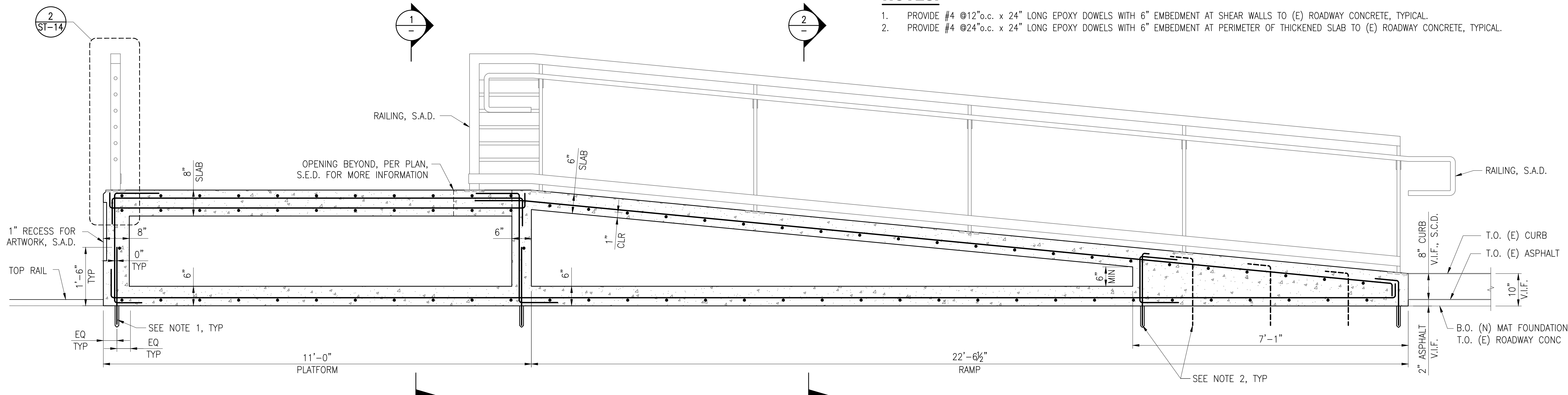
1 CHURCH ST. AT RESERVOIR ST. MINI-HIGH RAMP - SECTION AT PLATFORM
SCALE: 3/4" = 1'-0"



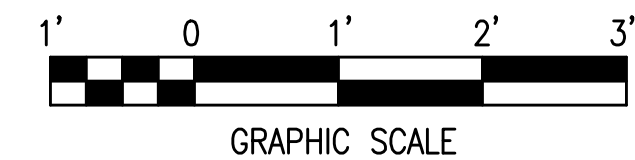
2 CHURCH ST. AT RESERVOIR ST. MINI-HIGH RAMP - SECTION AT RAMP
SCALE: 3/4" = 1'-0"

NOTES:

1. PROVIDE #4 @12"o.c. x 24" LONG EPOXY DOWELS WITH 6" EMBEDMENT AT SHEAR WALLS TO (E) ROADWAY CONCRETE, TYPICAL.
2. PROVIDE #4 @24"o.c. x 24" LONG EPOXY DOWELS WITH 6" EMBEDMENT AT PERIMETER OF THICKENED SLAB TO (E) ROADWAY CONCRETE, TYPICAL.



3 CHURCH ST. AT RESERVOIR ST. MINI-HIGH RAMP - LONGITUDINAL SECTION
SCALE: 3/4" = 1'-0"

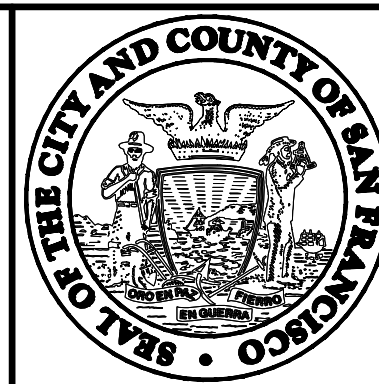


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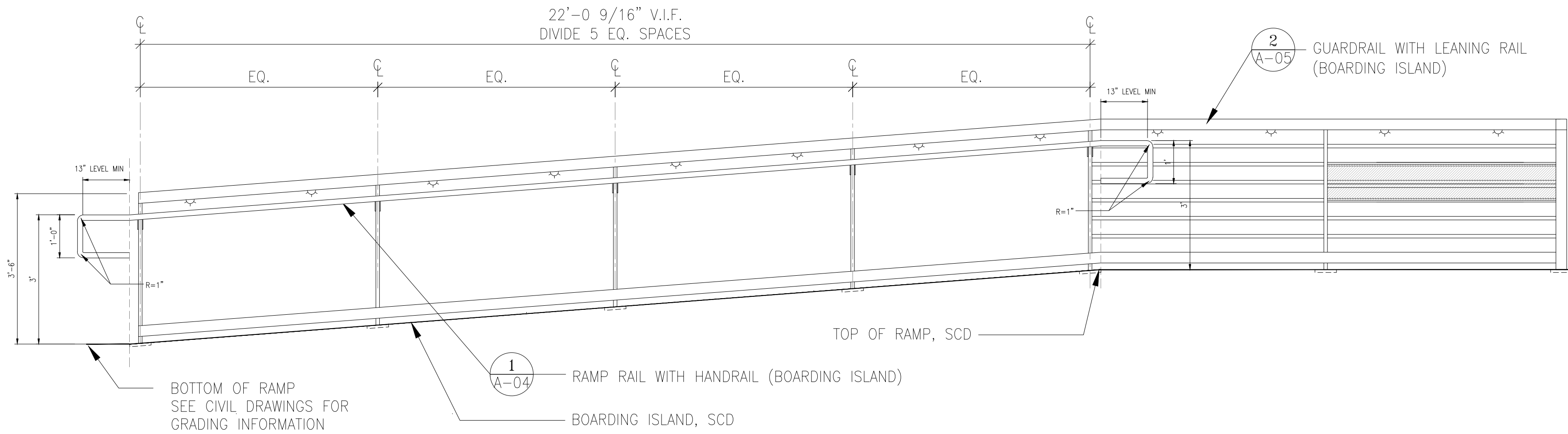
CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY



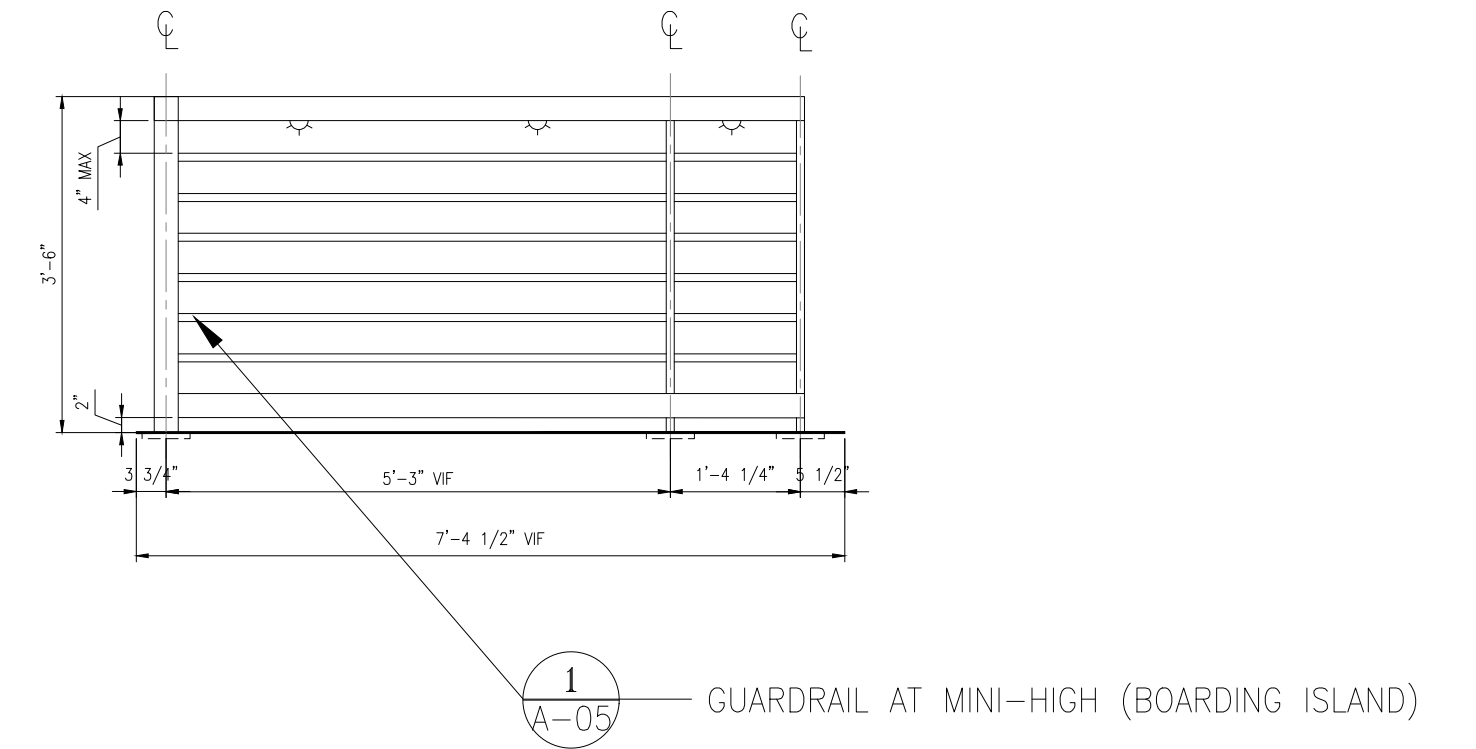
MUNI METRO SYSTEM
J MUNI FORWARD: CHURCH & MARKET

STRUCTURAL SECTIONS
INBOUND PLATFORM
CHURCH ST. AT RESERVOIR ST.

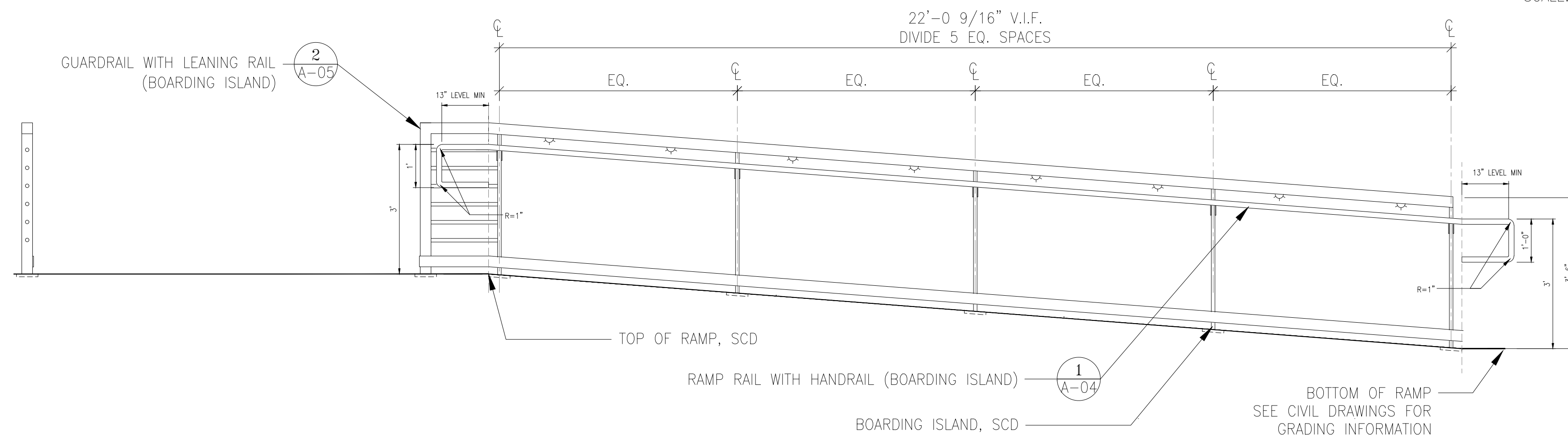
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DRAWING	CL-#####
ST-22	REVISION
ST-XX	0



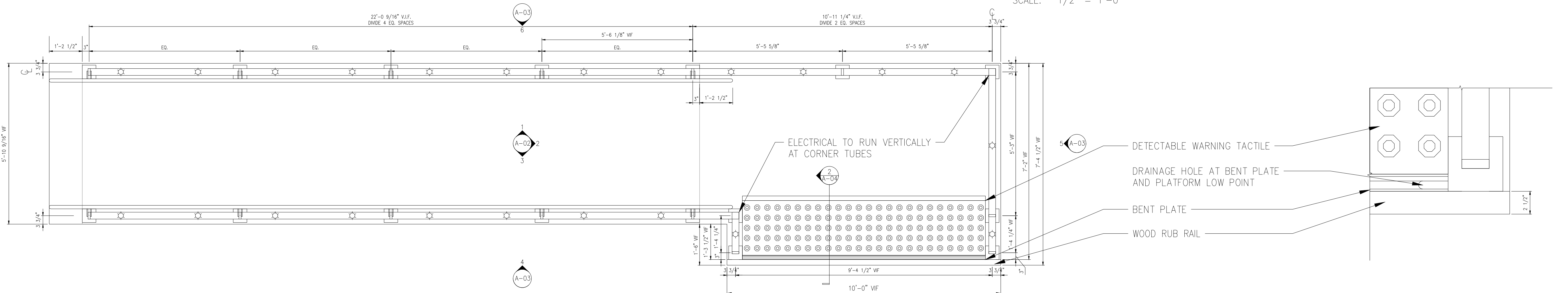
1 CHURCH ST. AT RESERVOIR ST. MINI-HIGH RAMP – EAST ELEVATION



2 MINI-HIGH RAMP – SOUTH ELEVATION



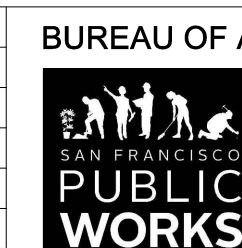
3 CHURCH ST. AT RESERVOIR ST. MINI-HIGH RAMP – WEST ELEVATION



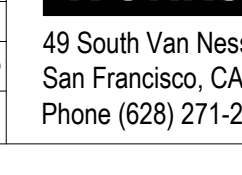
4 CHURCH ST. AT RESERVOIR ST. MINI-HIGH RAMP – PLAN VIEW

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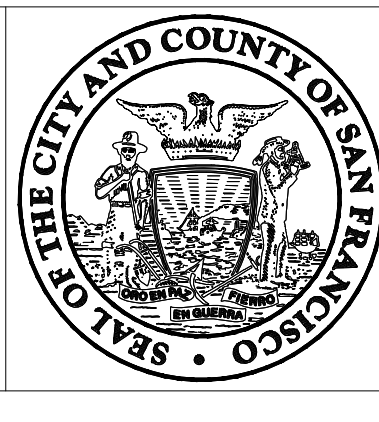


BUREAU OF ARCHITECTURE
Julia Laue, FAIA
City Architect &
Bureau Manager



49 South Van Ness Ave, Suite 1100
San Francisco, CA 94103
Phone (628) 271-2900

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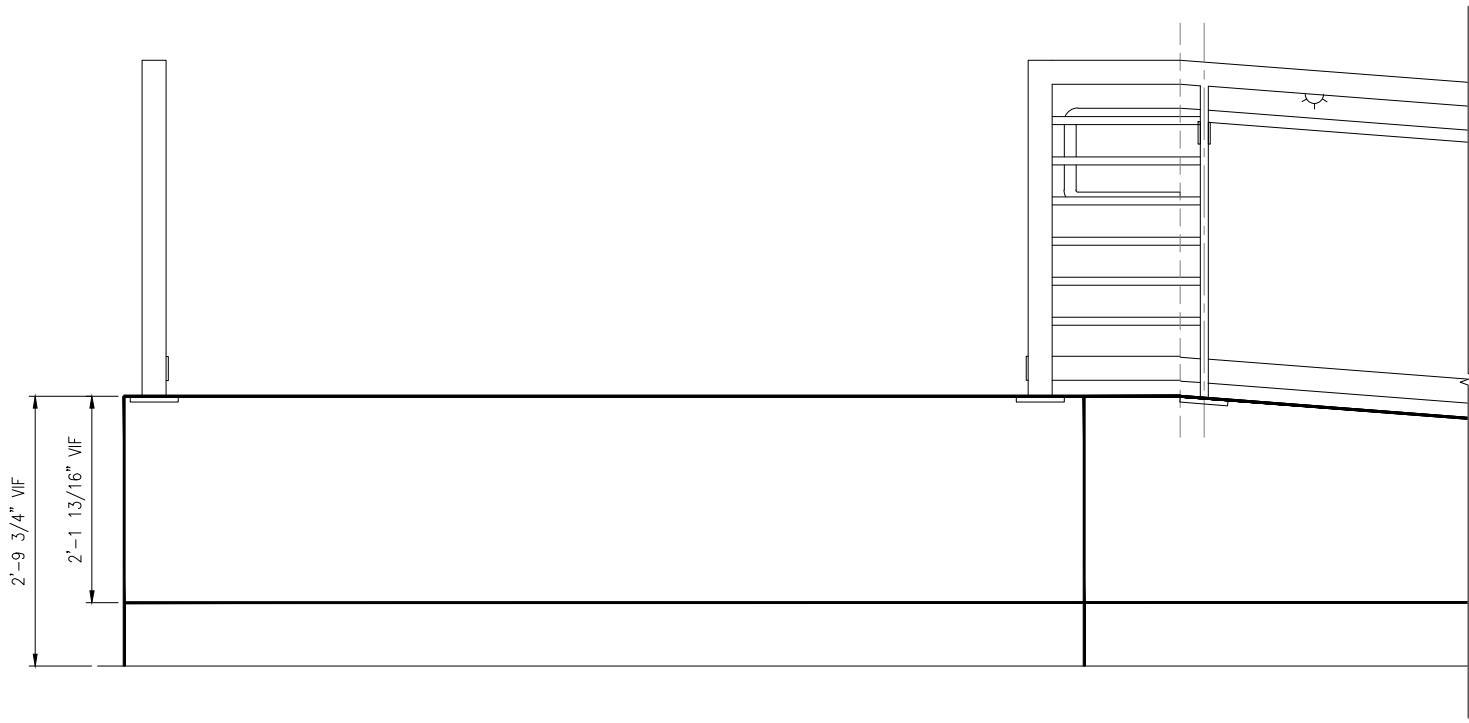


CITY AND COUNTY OF SAN FRANCISCO

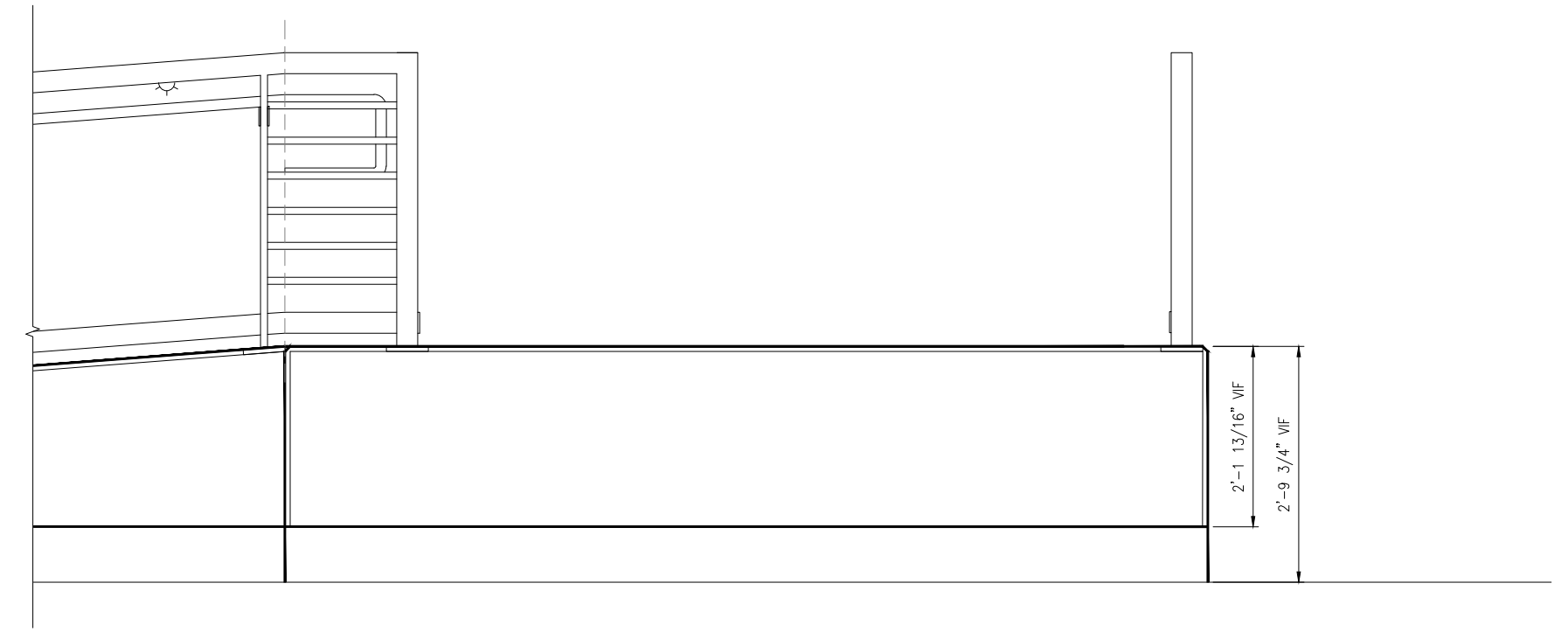
MUNICIPAL TRANSPORTATION AGENCY



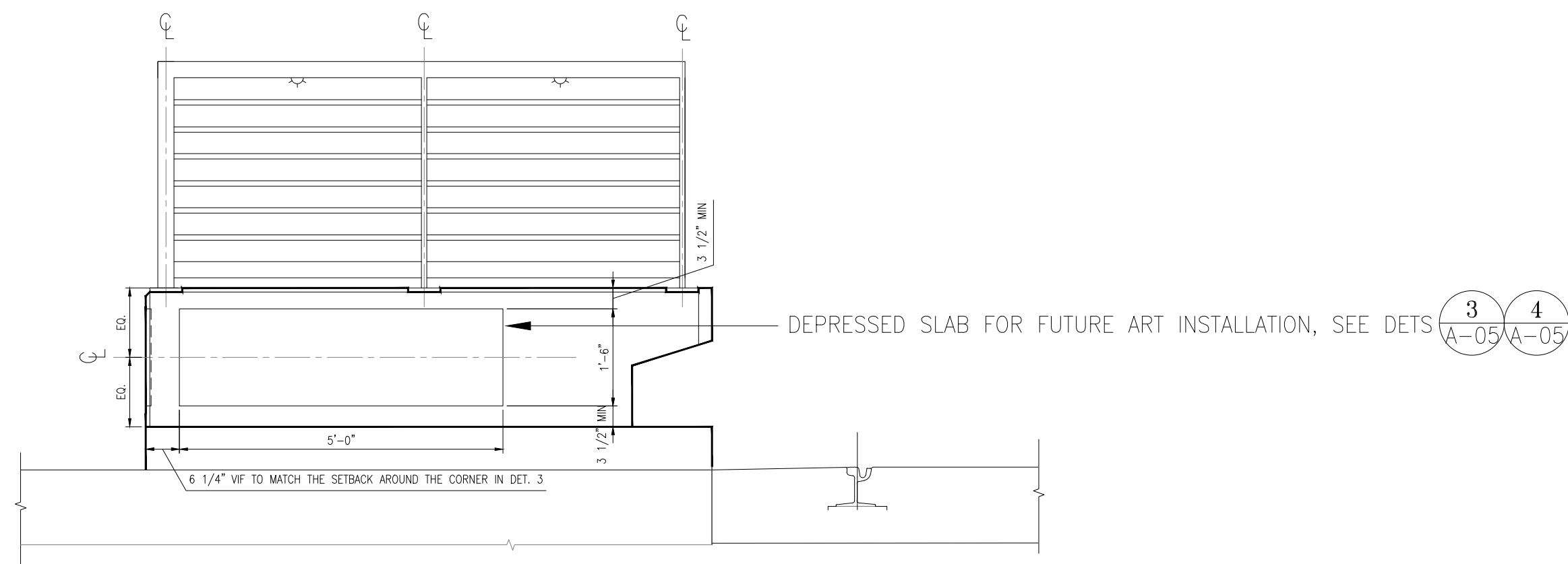
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J MUNI FORWARD: CHURCH & MARKET		DRAWING	CL-XXXX
CHURCH ST. AT RESERVOIR ST. INBOUND PLATFORM		A-02	REVISION
		A-05	0



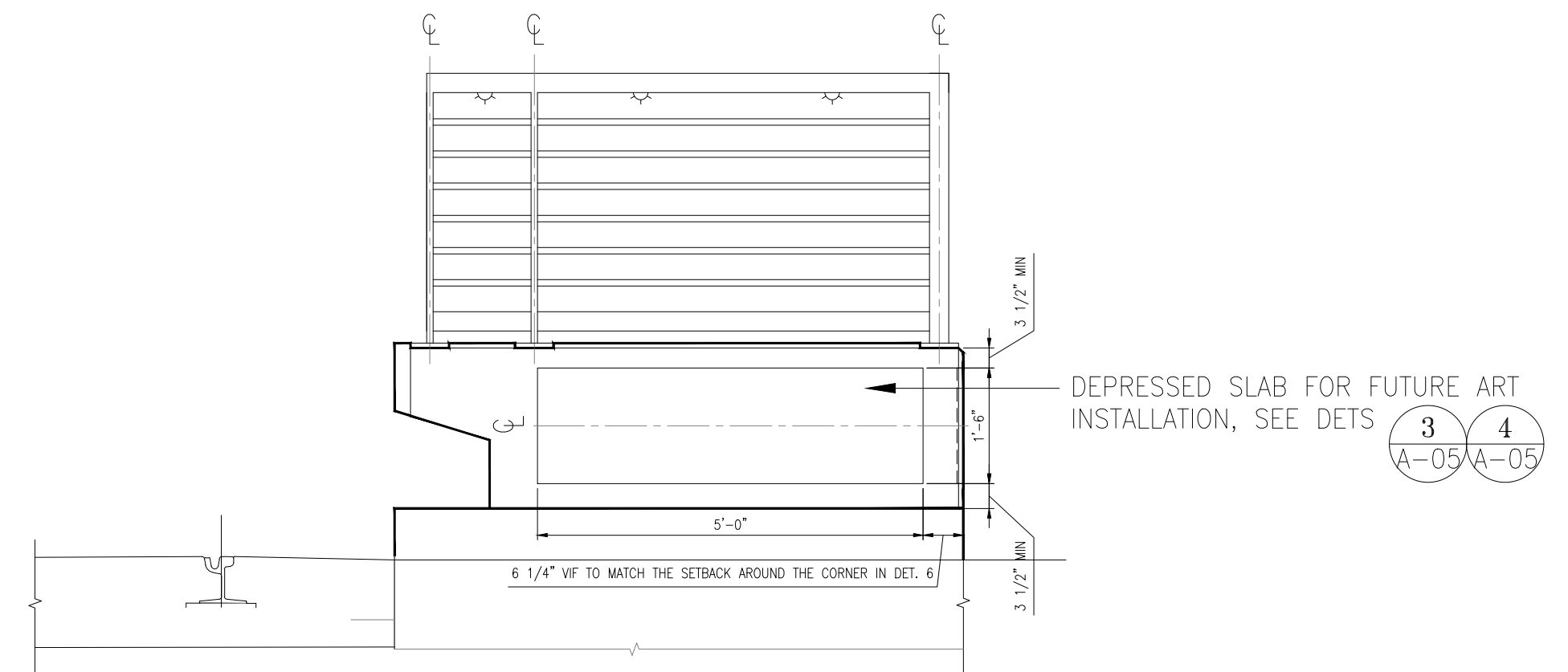
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SCALE: 1/2" = 1'-0"



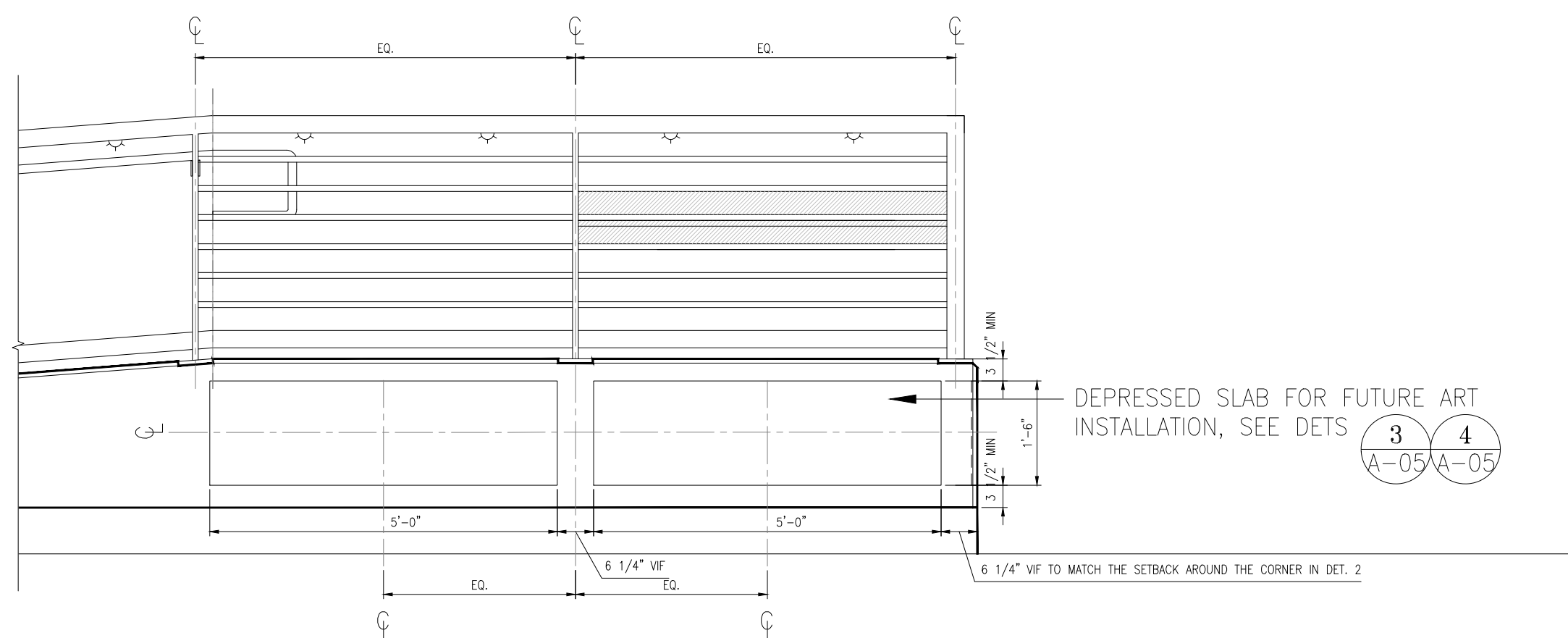
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SCALE: 1/2" = 1'-0"



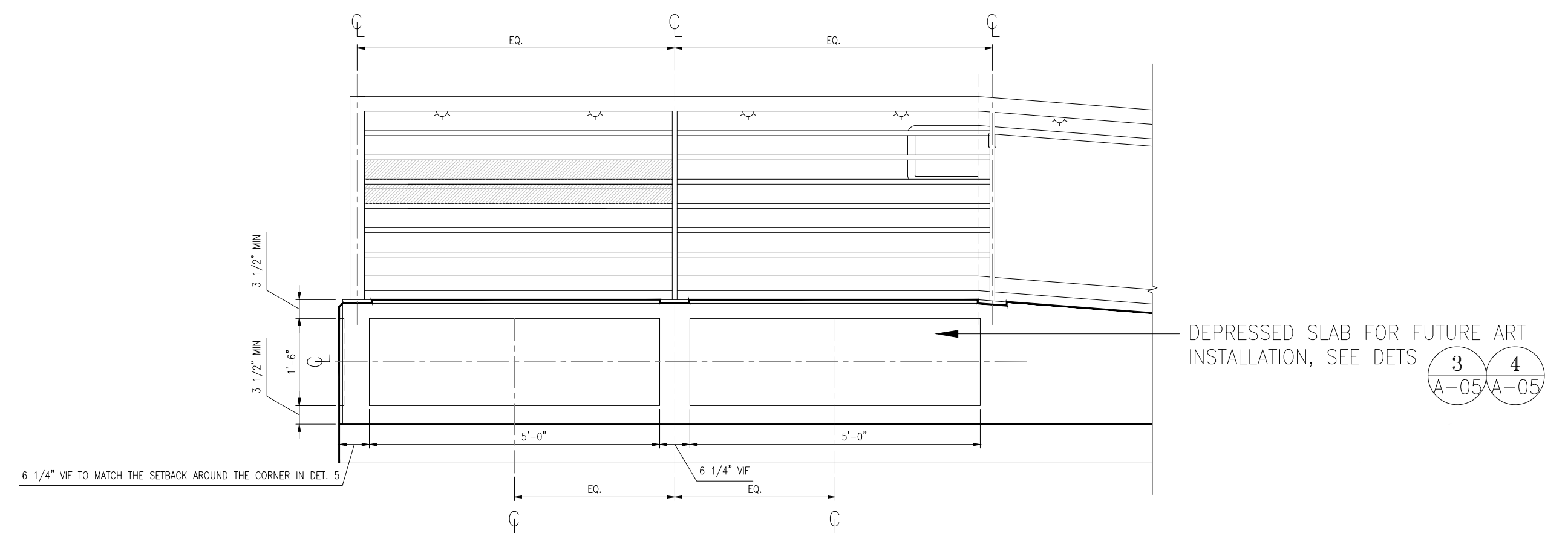
2 CHURCH ST. AT MARKET ST. MINI-HIGH RAMP – SOUTH EXTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



5 CHURCH ST. AT RESERVOIR ST. MINI-HIGH RAMP – SOUTH EXTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



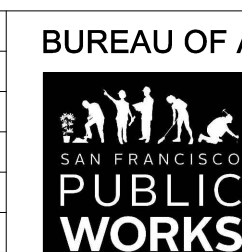
3 CHURCH ST. AT MARKET ST. MINI-HIGH RAMP – WEST EXTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



6 CHURCH ST. AT RESERVOIR ST. MINI-HIGH RAMP – WEST EXTERIOR ELEVATION
SCALE: 1/2" = 1'-0"

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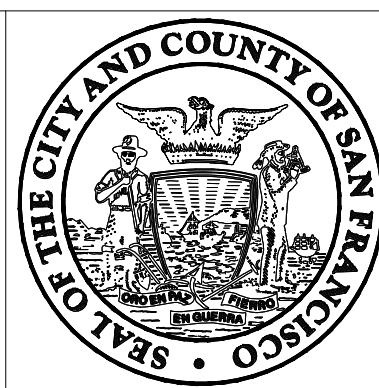


BUREAU OF ARCHITECTURE

Julia Laue, FAIA
City Architect &
Bureau Manager

49 South Van Ness Ave, Suite 1100
San Francisco, CA 94103
Phone (628) 271-2900

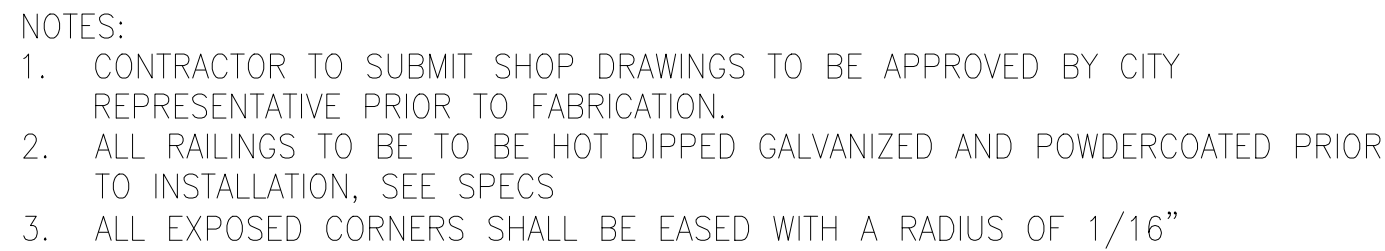
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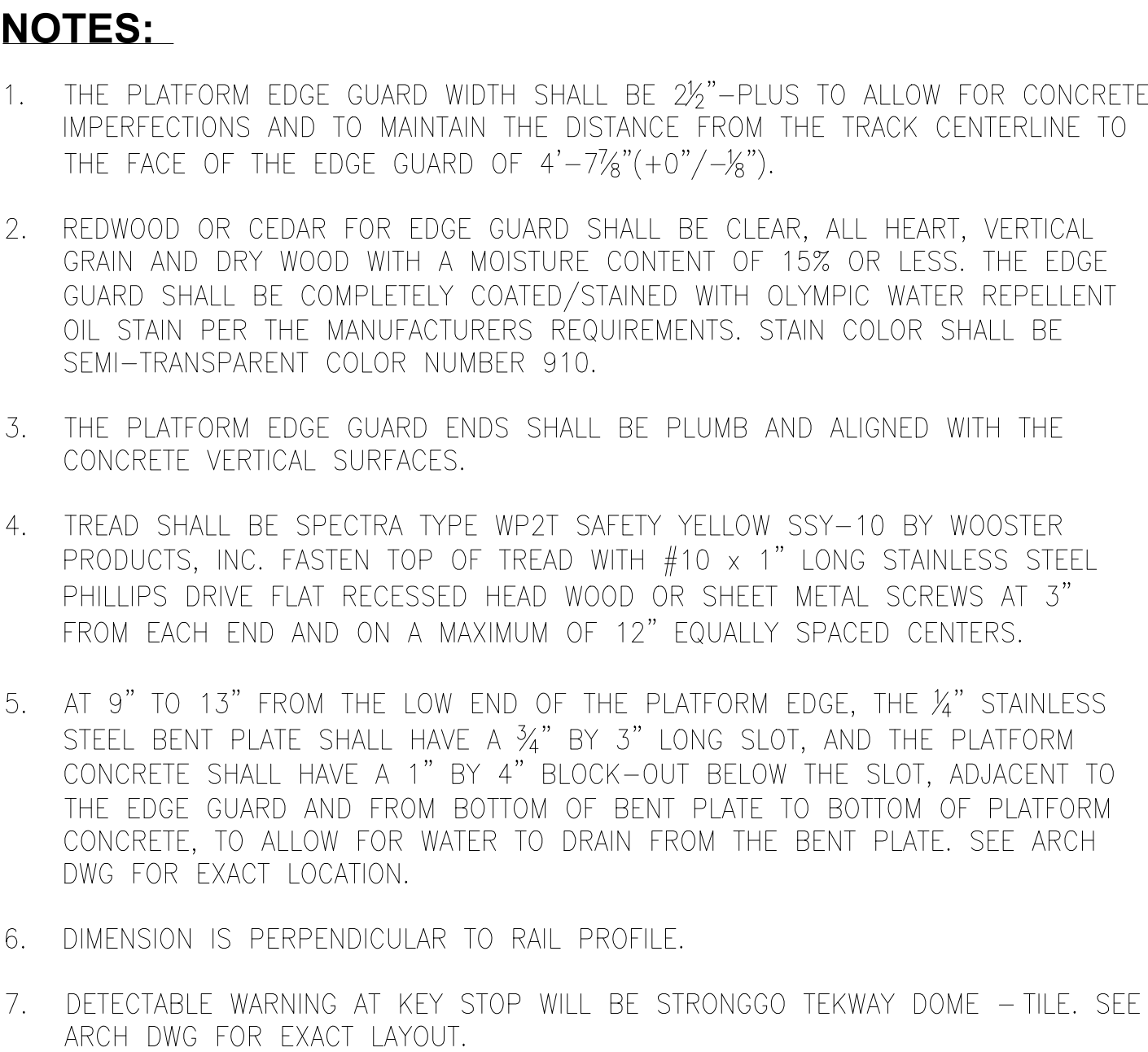
CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY



MUNI METRO SYSTEM		CONTRACT 1335	
J MUNI FORWARD: CHURCH & MARKET		DRAWING CL-XXXX	
EXTERIOR ELEVATIONS		A-03	REVISION
		A-05	0



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



SCALE: $3'' = 1'-0''$

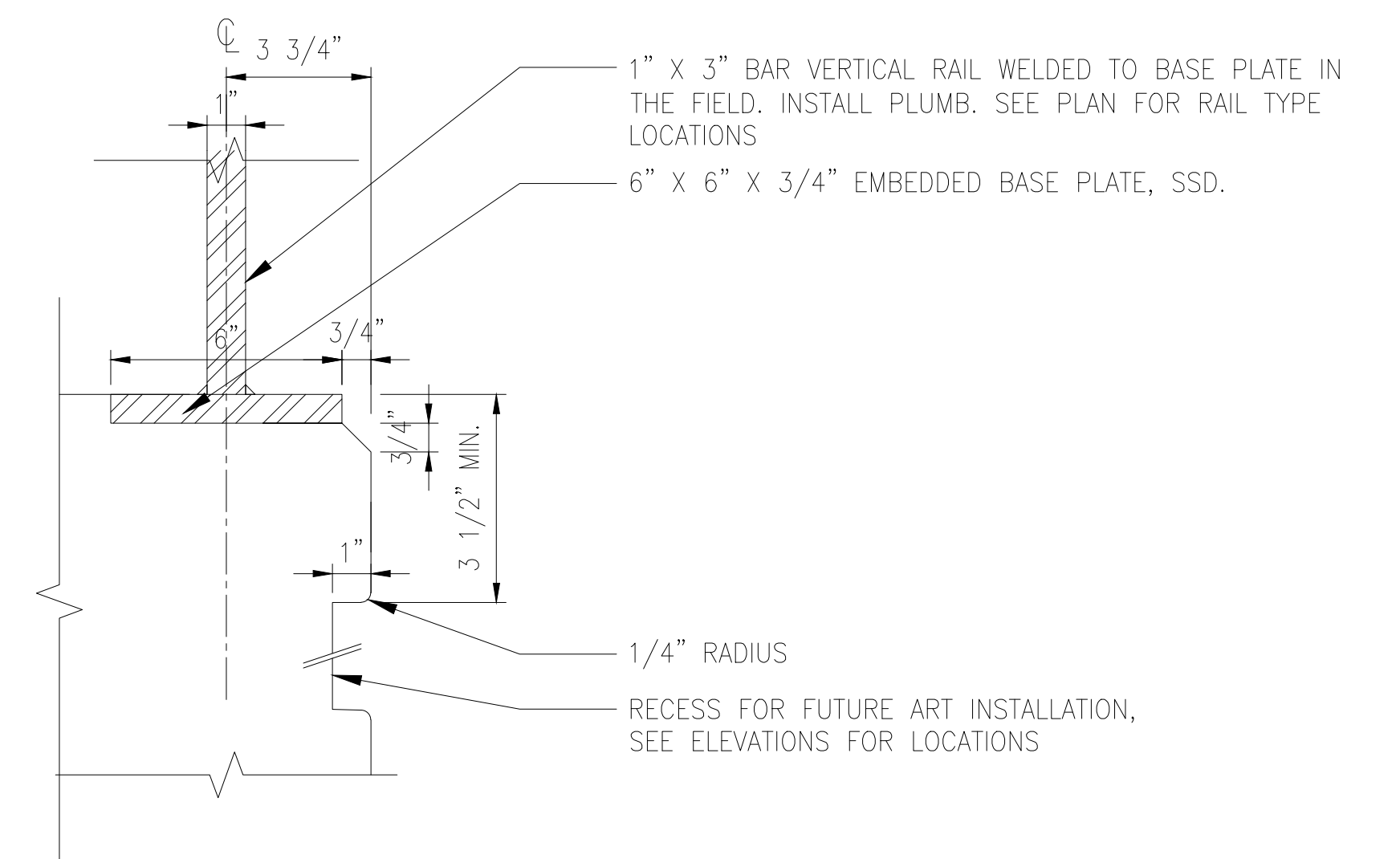
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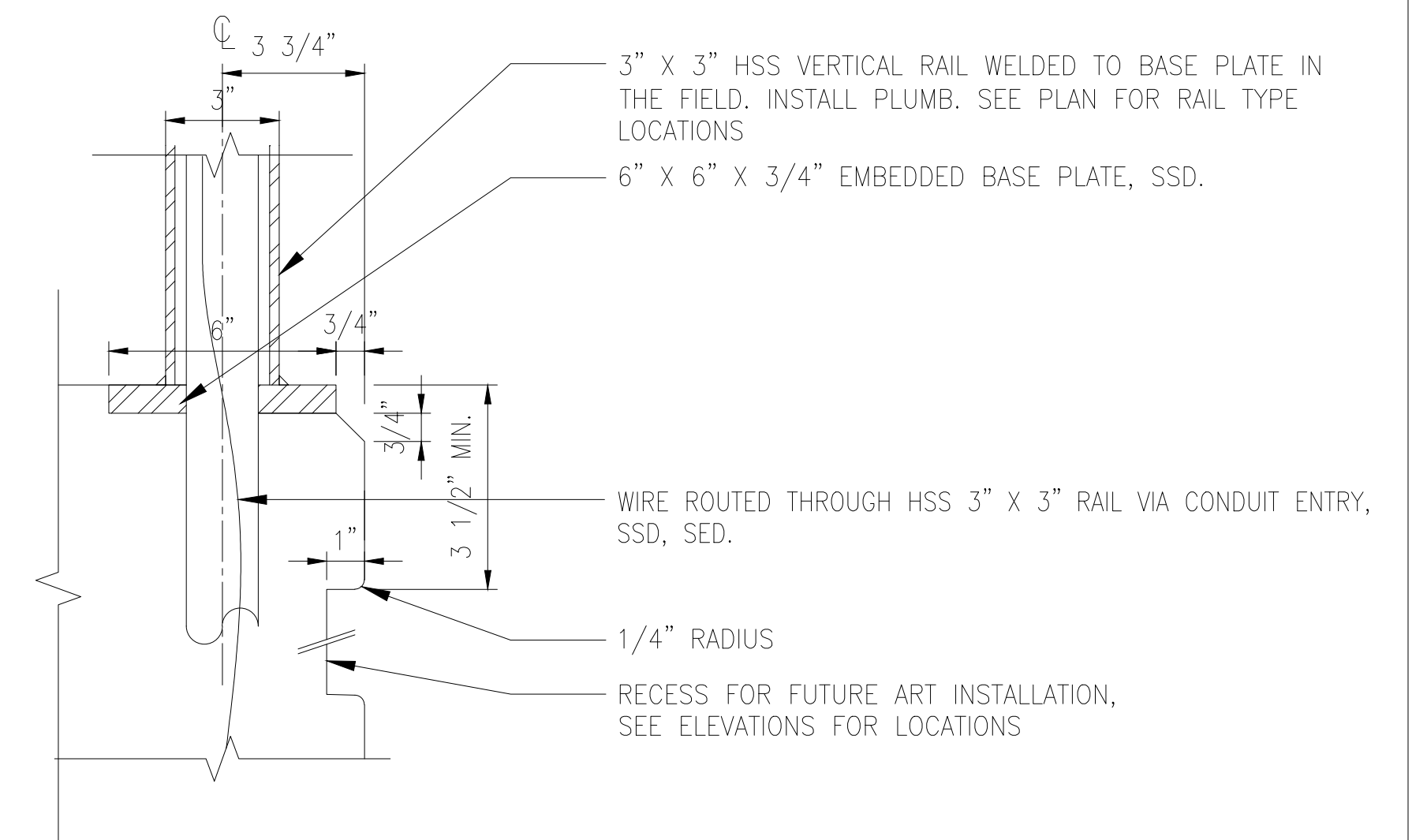
MUNI METRO SYSTEM J MUNI FORWARD: CHURCH & MARKET	CONTRACT 1335	
	DRAWING CL-XXXX	
DETAILS	A-04	REVISION
	A-05	0

ELEVATION 2

3 RAILING ANCHORAGE - 1 X 3 POST

3 RAILING ANCHORAGE - 1 X 3 POST

SCALE: $3'' = 1'-0''$



4 RAILING ANCHORAGE - 3 X 3 POST

4 RAILING ANCHORAGE - 3 X 3 POST

SCALE: $3'' = 1'-0''$

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MUNI METRO SYSTEM J MUNI FORWARD: CHURCH & MARKET	CONTRACT 1335	
	DRAWING CL-XXXX	
DETAILS	A-05	REVISION 0
	A-05	

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ABBREVIATIONS

AC	ASPHALTIC CONCRETE
ADA	AMERICANS WITH DISABILITIES ACT
AGG	AGGREGATE
BFP	BACK FLOW PREVENTER
BSW	BACK OF SIDEWALK
CB	CATCH BASIN
CCSF	CITY & COUNTY OF SAN FRANCISCO
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION JOINT
CL	CENTER LINE
CLR.	CLEAR
CO	CLEANOUT
CONC.	CONCRETE
CONT.	CONTINUOUS
CPUC	CALIFORNIA PUBLIC UTILITIES COMMISSION
CR	CURB RAMP
DG	DECOMPOSED GRANITE
DI	DRAIN INLET
DIA.	DIAMETER
DWG	DRAWING
(E)	EXISTING
EA	EACH
EJ	EXPANSION JOINT
EQ	EQUAL
FG	FINISHED GRADE
FIN	FINISHED
FL	FLOW LINE
FS	FLUSH SURFACE
DEG	DEGREE
GAL	GALLON
GALV	GALVANIZED
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HORIZ	HORIZONTAL
HPS	HIGH POINT OF SWALE
HP	HIGH POINT
HSS	HOLLOW STRUCTURAL STEEL
IN	INCH
INV	INVERT ELEVATION
MAX.	MAXIMUM
MBFL	MISSION BAY FERRY LANDING
MFR	MANUFACTURER
MIN.	MINIMUM
(N)	NEW
NTS	NOT TO SCALE
O.C.	ON CENTER
PA	PLANTED AREA
PERF.	PERFORATED
PIP	POURED-IN-PLACE
POB	POINT OF BEGINNING
QC	QUICK COUPLER
QTY	QUANTITY
R	RADIUS
REBAR	REINFORCING BAR
RIM	RIM ELEVATION
SCD	SEE CIVIL DRAWINGS
SCH	SCHEDULE
SED	SEE ELECTRICAL DRAWINGS
SF	SQUARE FEET
SFWD	SAN FRANCISCO WATER DEPARTMENT
SIM	SIMILAR
SJ	SCORE JOINT
SMD	SEE MECHANICAL DRAWINGS
SPECS.	SPECIFICATION(S)
SRD	SEE ROADWAY DRAWINGS
SS	STAINLESS STEEL
SSD	SEE STRUCTURAL DRAWINGS
SSDPWSF	STANDARD SPECIFICATIONS OF DEPARTMENT OF PUBLIC WORKS OF SAN FRANCISCO
SSTL	STAINLESS STEEL
STL	STEEL
TC/BC	TOP OF CURB/BOTTOM OF CURB
TFB	TERRY A. FRANCOIS BOULEVARD
TS/BS	TOP OF STEP/BOTTOM OF STEP
TW/BW	TOP OF WALL/BOTTOM OF WALL
TYP.	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPRR	UNITED PACIFIC RAILROAD
VCP	VITRIFIED CLAY PIPE
VIF	VERIFY IN FIELD
W/	WITH
WWM	WELDED WIRE MESH
#	NUMBER

GENERAL NOTES:

- THESE NOTES AND LEGEND REFER TO THE LANDSCAPE ARCHITECTURAL "L" DRAWINGS.
- ALL WORK TO BE PERFORMED SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES OF GOVERNMENT AGENCIES HAVING JURISDICTION OVER THE PROJECT.
- PROTECT ALL UTILITIES, IMPROVEMENTS AND STRUCTURES WHETHER SHOWN ON THE DRAWINGS OR NOT, AND RESTORE TO NEW CONDITION AT NO ADDITIONAL COST TO THE CITY IF DAMAGED DURING THE COURSE OF WORK.
- COORDINATE ALL WORK TO PREVENT CONFLICTS BETWEEN TRADES AND REPORT CONFLICTS OR INCONGRUITIES BETWEEN NEW IMPROVEMENTS AND EXISTING FACILITIES TO THE CITY REPRESENTATIVE BEFORE STARTING WORK WHICH IS AFFECTED THEREBY.
- THE CONTRACTOR SHALL VERIFY EXISTING GRADES AND SITE CONDITIONS BEFORE PROCEEDING WITH ANY WORK.
- THE LIMIT OF WORK (L.O.W.) OCCURS AT FACE OF BUILDINGS, AT PROPERTY LINES, AT EXISTING FENCES, AND AS SHOWN ON PLANS. THIS LINE, AS DESCRIBED ABOVE, IS DIAGRAMMATIC AND IS INTENDED TO DELINEATE LANDSCAPE WORK. FOR ADDITIONAL INFORMATION REGARDING L.O.W. FOR THIS CONTRACT WORK, SEE ROADWAY DOCUMENTS.
- EXISTING CONDITIONS AS SHOWN ON THE DRAWINGS ARE SUBJECT TO DISCREPANCIES AND DO NOT NECESSARILY ACCURATELY REFLECT THE EXISTING SITE CONDITIONS. CONTRACTOR TO WALK SITE AND FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BIDS.
- ANY REFERENCE IN THE DOCUMENT TO "AS DIRECTED" OR "DIRECTIONS" REFER TO DIRECTIONS GIVEN BY THE CITY REPRESENTATIVE/ LANDSCAPE ARCHITECT.
- ALL WORK TO BE PERFORMED SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES OF GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROJECT.
- IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL UTILITIES, IMPROVEMENTS AND STRUCTURES WHETHER SHOWN ON THE DRAWINGS OR NOT AND RESTORE TO NEW CONDITION AS PROVIDED IN THE SPECS.
- THE CONTRACTOR SHALL MAINTAIN ALL GRADES, LINES, LEVELS, AT LOCATIONS AS REQUIRED FOR THE PROPER EXECUTION OF THE WORK.
- THE CONTRACTOR SHALL COORDINATE ALL WORK TO PREVENT CONFLICTS BETWEEN TRADES AND SHALL REPORT CONFLICTS OR INCONGRUITIES BETWEEN NEW IMPROVEMENTS AND/OR EXISTING FACILITIES TO THE CITY REPRESENTATIVE IMMEDIATELY.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL QUANTITIES OF MATERIALS SHOWN ON DRAWINGS.
- THE CONTRACTOR SHALL CHECK AND VERIFY THAT ALL SAWCUTTING AND EXCAVATION WORK WILL NOT IMPACT EXISTING SUB-SIDEWALK BASEMENTS AS INCIDENTAL WORK.

TREE PROTECTION NOTES:

- REFER TO STANDARD SPECIFICATIONS OF THE CITY AND COUNTY OF SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS – 01 56 39 TEMPORARY TREE AND PLANT PROTECTION.
- PROTECT ALL EXISTING TREES WHOSE DRIP LINE LIES WITHIN 25 FEET OF EXCAVATION, TRENCHING, GRADING, OR PATHWAY WORK, AGAINST INJURY OR DAMAGE FROM CONSTRUCTION OPERATIONS, FOR THE DURATION OF THE PROJECT.
- PROTECT TREES PRIOR TO COMMENCING WORK BY ERECTING A TEMPORARY SAFETY FENCE PER DETAIL ABOVE ON SIDE(S) ADJACENT TO CONSTRUCTION.
- PRIOR TO ANY DEMOLITION, CONTRACTOR TO OBTAIN WRITTEN APPROVAL OF TREE PROTECTION LAYOUT BY CITY REPRESENTATIVE.
- IF TREES ARE TO BE REMOVED DURING THE MIGRATORY-BIRD NESTING SEASON (FEBRUARY 15 TO AUGUST 31 OF EACH YEAR), TREES MUST BE SURVEYED BY A QUALIFIED BIOLOGIST BEFORE THE ONSET OF CONSTRUCTION. SEE SPECIFICATION SECTION 3.12 OF 01 35 43 ENVIRONMENTAL PROCEDURES.
- ESTABLISH A TREE PROTECTION (TPZ) PER SPECIFICATION SECTION 01 56 39 AND PER TREE PROTECTION PLAN. ALL EXCAVATION WITHIN TPZ SHALL BE BY HAND. ROOTS SMALLER THAN 2" DIAMETER SHALL BE CUT CLEANLY AND OBLIQUELY WITH CUT SURFACES FACING DOWNWARD, AND KEPT CONTINUOUSLY MOIST UNTIL BACKFILL IS REPLACED. DO NOT APPLY PRUNING SEALS TO CUT END OF ROOT.
- DAMAGED TREES, INCLUDING WOUNDS TO BRANCHES AND ROOTS, SHALL BE PROMPTLY REPAIRED. FOR TREE ROOTS 2 INCHES DIAMETER AND LARGER, CONTACT THE CITY REPRESENTATIVE PRIOR TO CUTTING.
- FOR TREE OR SHRUB ROOTS 2 INCHES DIAMETER AND LARGER, CONTACT THE CITY REPRESENTATIVE PRIOR TO CUTTING.
- NOTIFY CITY REPRESENTATIVE OF ANY DAMAGE TO TREES, INCLUDING WOUNDS TO BRANCHES AND ROOTS. THE CITY REPRESENTATIVE WITH CONSULTING ARBORIST, SHALL PROVIDE DIRECTION FOR EXTENT OF REPAIR.

GRADING & SOIL PREPARATION NOTES:

- SEE CIVIL DRAWINGS FOR GRADING INFORMATION.
- SEE SPECIFICATIONS SECTION 32 91 19 PLANTING PREPARATION FOR SOIL TESTING, AMENDMENTS AND BACKFILL. SEE SPECIFICATION SECTION 32 90 00 PLANTING FOR TREE PIT DRAINAGE TESTING.

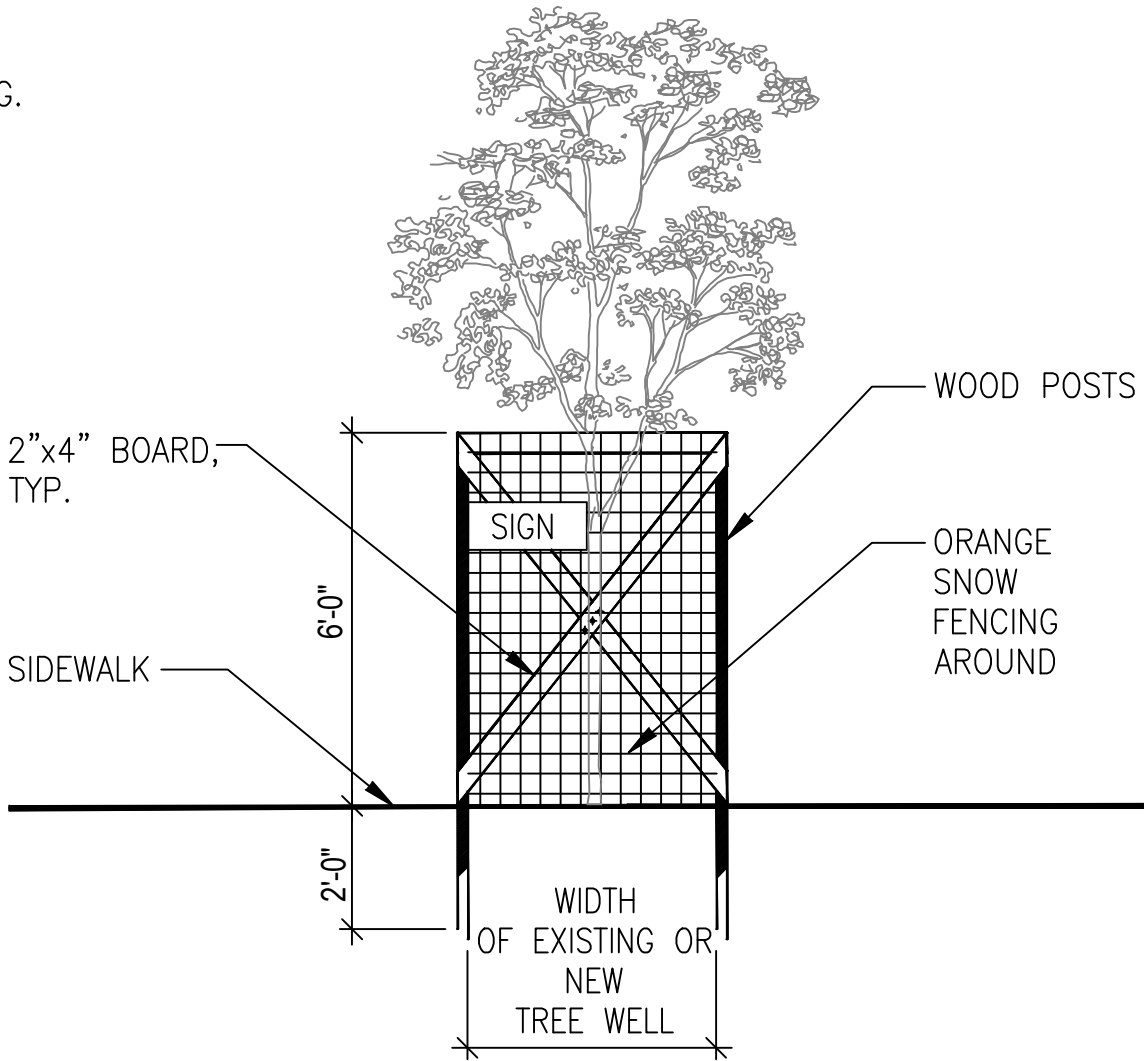
LAYOUT NOTES:

- ALL TRANSITIONS BETWEEN CURVES AND STRAIGHT EDGES SHALL BE SMOOTH.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SURVEY INFORMATION IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE CITY REPRESENTATIVE BEFORE PROCEEDING WITH WORK IN THE AREA AFFECTED.
- WRITTEN DIMENSIONS SUPERSEDE SCALED DIMENSIONS.
- ALL DIMENSIONS AT CURB ARE FROM THE BACK OF CURB, UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS SHOWN ARE TO BE TAKEN HORIZONTALLY.
- FOR ADDITIONAL INFORMATION REGARDING LANE STRIPING AND CROSSWALKS, SEE TRAFFIC STRIPING "STR" DRAWINGS.
- THE CONTRACTOR SHALL CONFIRM LOCATION OF SUB-SURFACE UTILITIES AND INFRASTRUCTURE.
- THE CONTRACTOR SHALL ALIGN ALL NEW AND EXISTING UTILITY BOXES AND VAULTS WITH CONCRETE PAVING PATTERN AS MUCH AS POSSIBLE.
- ADJUST (E) UTILITY BOXES TO BE SQUARE WITH NEW SIDEWALK PAVING ALIGNMENT AS MUCH AS POSSIBLE.
- TRANSIT SHELTER PANEL TO BE INSTALLED BY SFMTA. LOCATION TO BE VERIFIED WITH CITY REPRESENTATIVE.
- EXACT LOCATION OF ALL SITE FURNISHINGS TO BE DETERMINED BY CITY REPRESENTATIVE BEFORE INSTALLATION.
- SEE TRAFFIC STRIPING DRAWINGS FOR ROADWAY STRIPING.

PLANTING NOTES:

- SEE SPECIFICATIONS FOR FULL PLANTING INFORMATION.
- PLANT LIST IS FOR THE CONVENIENCE OF THE CONTRACTOR. IN CASE OF DISCREPANCIES, THE PLAN SHALL GOVERN.
- CONTRACTOR SHALL REVIEW PLANT LOCATIONS WITH THE CITY REPRESENTATIVE PRIOR TO PLANTING.
- THE CITY REPRESENTATIVE RESERVES THE RIGHT TO MAKE SUBSTITUTIONS, ADDITIONS, OR DELETIONS IN THE PLANTING SCHEME AS THE WORK PROGRESSES.
- ALL PLANT MATERIAL SHALL BE INSPECTED PRIOR TO PLANTING. CONTRACTOR SHALL REVIEW ALL PLANT MATERIAL ON SITE WITH CITY REPRESENTATIVE AND INSTALL MATERIAL ONLY AFTER OBTAINING WRITTEN APPROVAL FROM THE CITY REPRESENTATIVE; SEE SPECIFICATION 32 90 00.

TYPICAL EXISTING STREET TREE PROTECTION



SCALE: NOT TO SCALE

SHEET INDEX

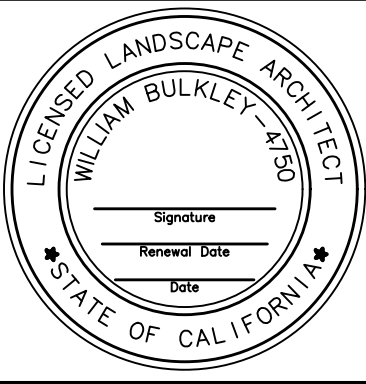
L-01	LANDSCAPE NOTES & ABBREVIATIONS
L-02	TREE PROTECTION PLAN
L-03	LAYOUT PLAN
L-04	LAYOUT ENLARGEMENTS PLAN
L-05	PAVING PLAN
L-06	MATERIALS PLAN
L-07	ELEVATIONS & SECTIONS
L-08	ELEVATIONS & SECTIONS
L-09	IRRIGATION PLAN
L-10	IRRIGATION DETAILS
L-11	IRRIGATION DETAILS
L-12	PLANTING PLAN
L-13	PLANTING DETAILS
L-14	CONSTRUCTION DETAILS
L-15	CONSTRUCTION DETAILS
L-16	CONSTRUCTION DETAILS
L-17	CONSTRUCTION DETAILS
L-18	CONSTRUCTION DETAILS
L-19	GATEWAY FEATURE REFERENCE DRAWINGS

		DRAFT 95% NOT FOR CONSTRUCTION							
3	4/30/26	95% BoLA							
2	4/17/26	65% BoLA – 95% PROJECT CONSTRUCTION DOCUMENTS							
1	12/31/25	35% BoLA – 95% PROJECT CONSTRUCTION DOCUMENTS							
NO.	DATE	DESCRIPTION				REVISED	CHECKED	APPROVED	
REVISIONS									



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49 South Van Ness Avenue
San Francisco, CA 94103

DESIGNED	WB
DRAWN	CY
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RECOMMENDED	
PROJECT_ENGINEER	
APPROVED	
PROGRAM_MANAGER	
DATE	DATE_SIGNED

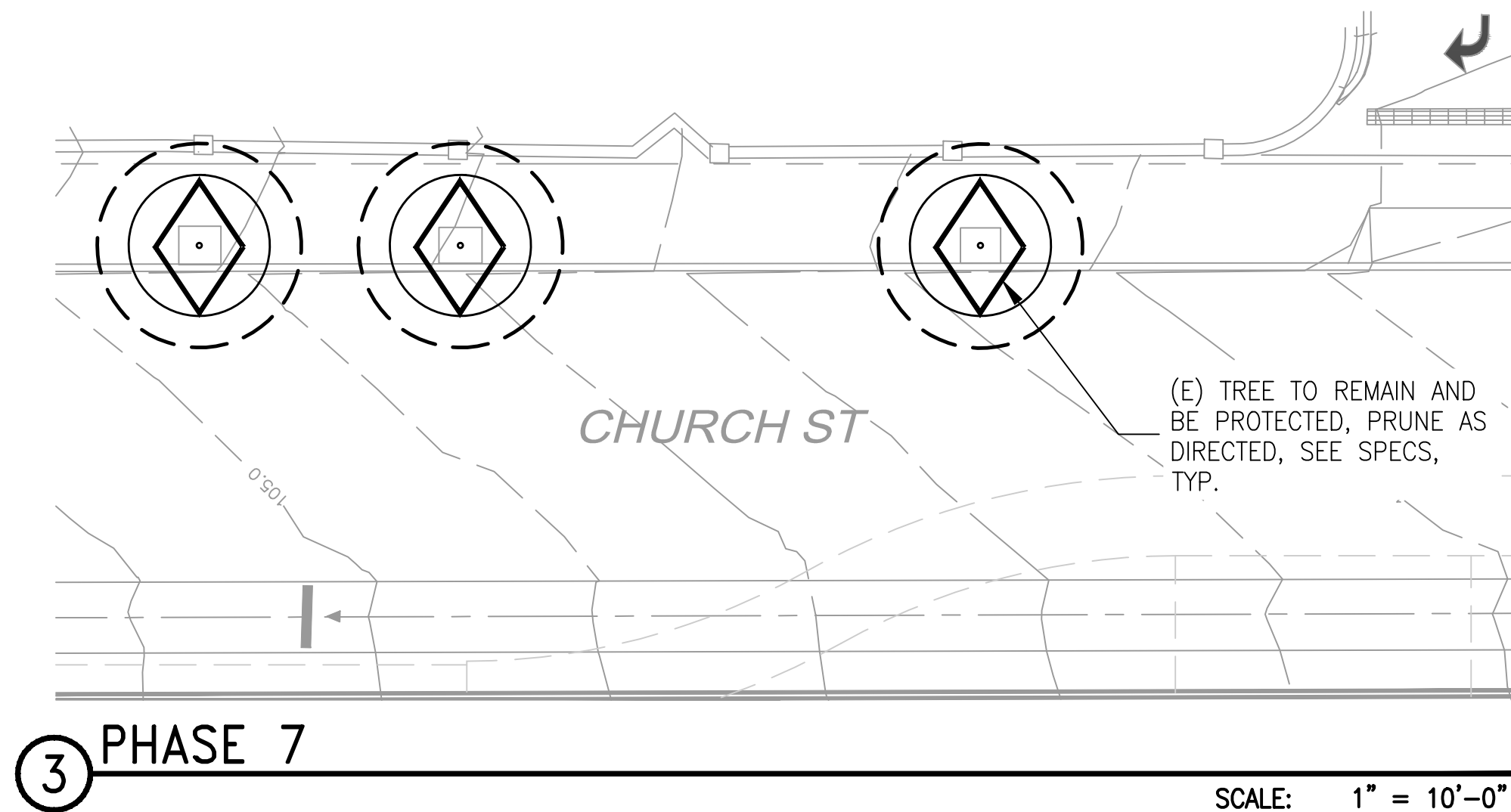
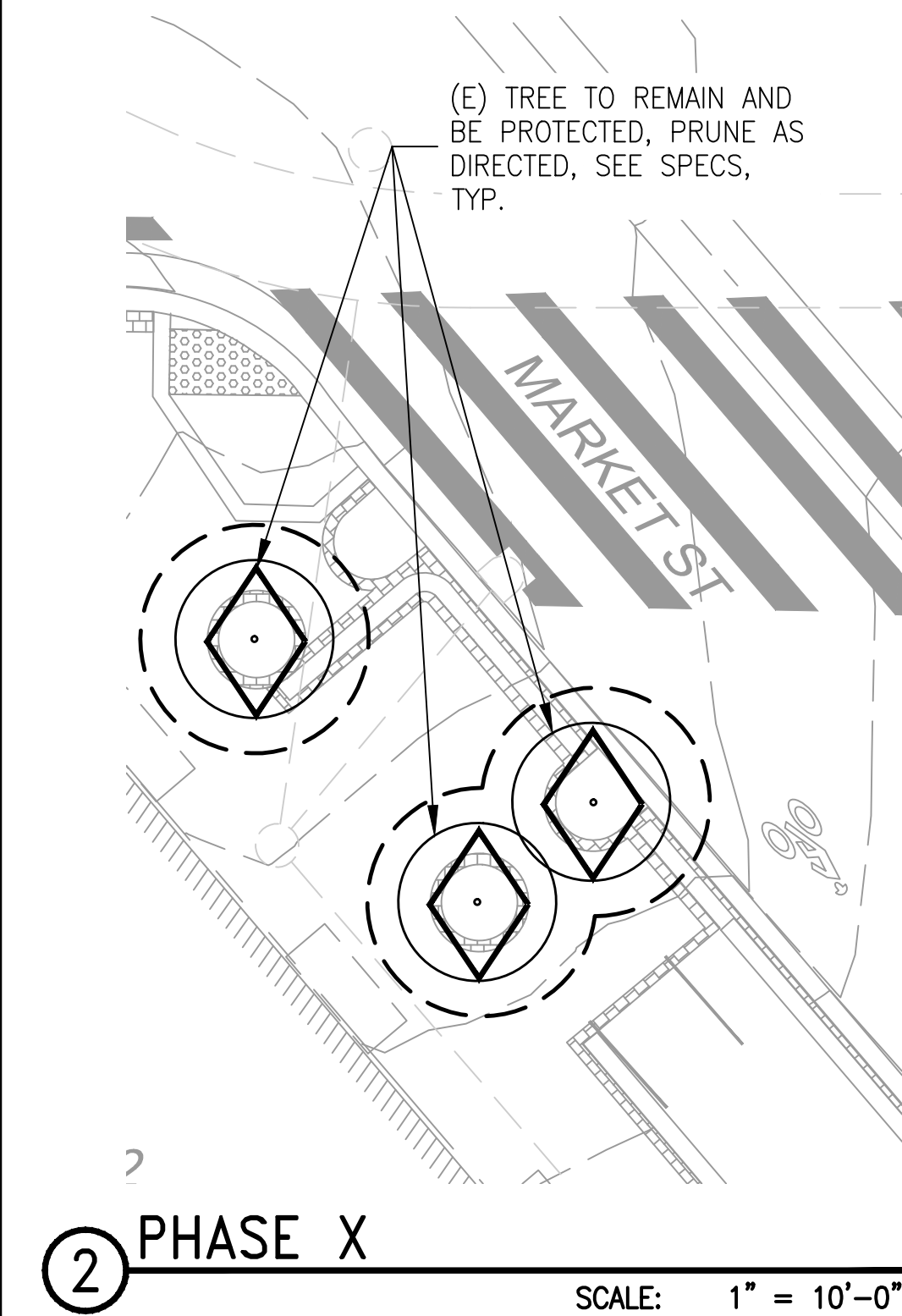
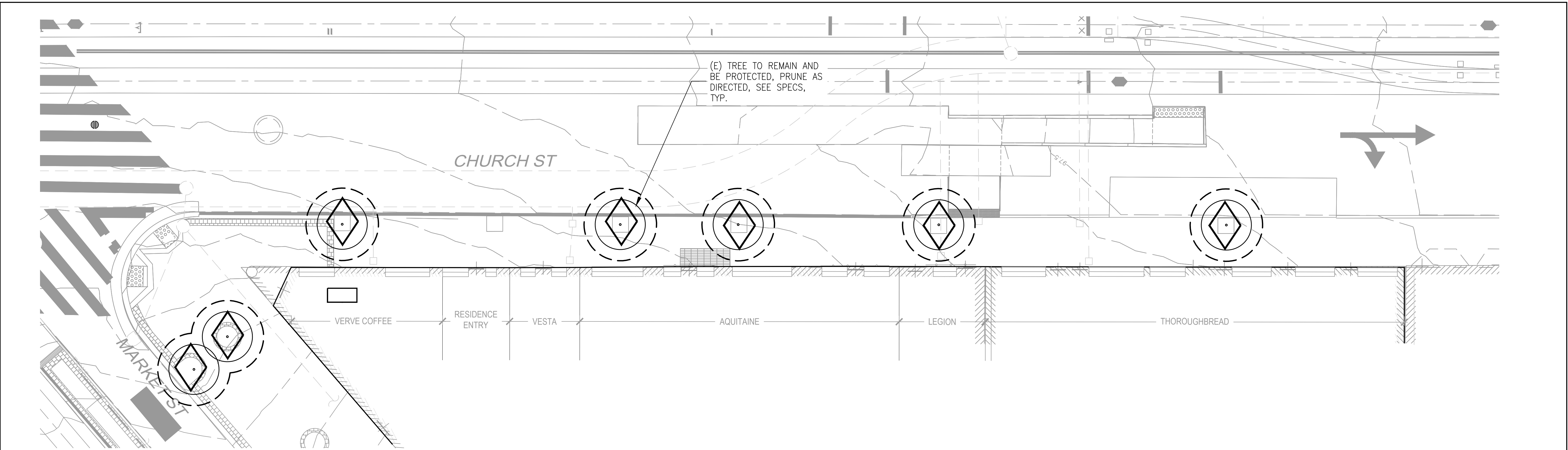


CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY



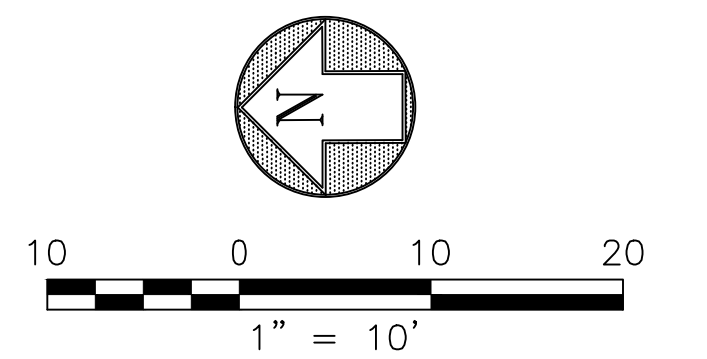
MUNI METRO SYSTEM		CONTRACT	1335
CHURCH AND MARKET – MUNI FORWARD		DRAWING	CL–
LANDSCAPE NOTES & ABBREVIATIONS		L-01	REVISION
		XXXX	0

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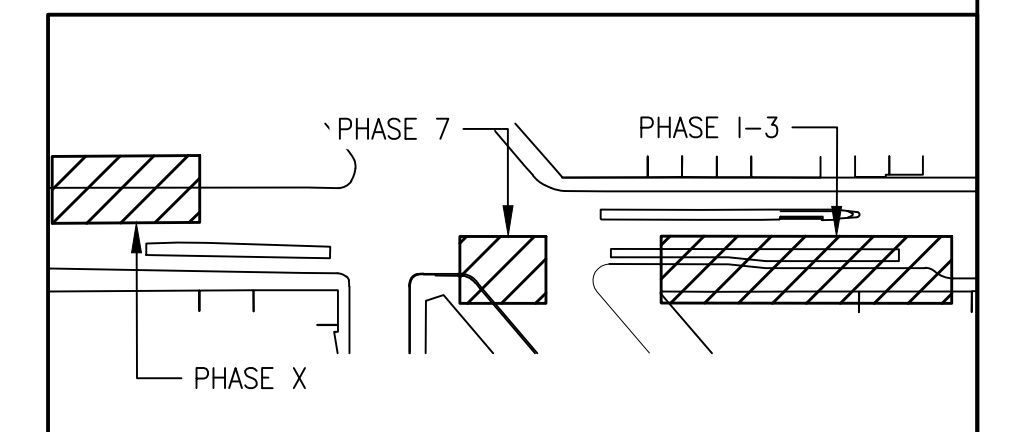


TREE PROTECTION LEGEND

- REMOVE SITE ITEM OR TREE STUMP INCLUDING GRINDING OF STUMP TO 24" DEPTH
- EXISTING TREES TO REMAIN AND TO BE PROTECTED DURING CONSTRUCTION, SEE L-0.1
- EXISTING DRIPLINE
- TREE PROTECTION ZONE (TPZ) VERIFY LIMITS OF TREE DRIP LINE IN FIELD. ONLY HAND EXCAVATION ALLOWED IN TMZ. SEE SPECS.



KEY PLAN

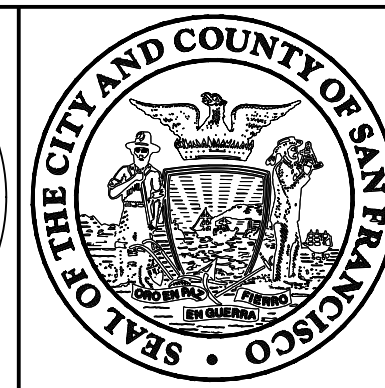
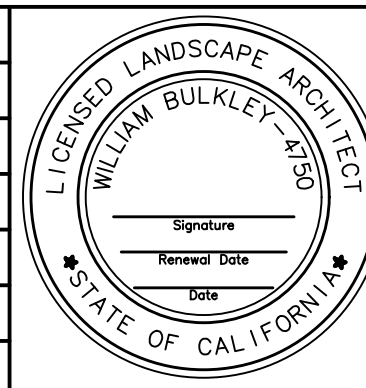


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3	4/30/26	95% BoLA			
2	4/17/26	65% BoLA - 95% PROJECT CONSTRUCTION DOCUMENTS			
1	12/31/25	35% BoLA - 95% PROJECT CONSTRUCTION DOCUMENTS			
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ARCHITECTURE
49 South Van Ness Avenue
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APPROVED	PROGRAM_MANAGER
DATE	DATE_SIGNED



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

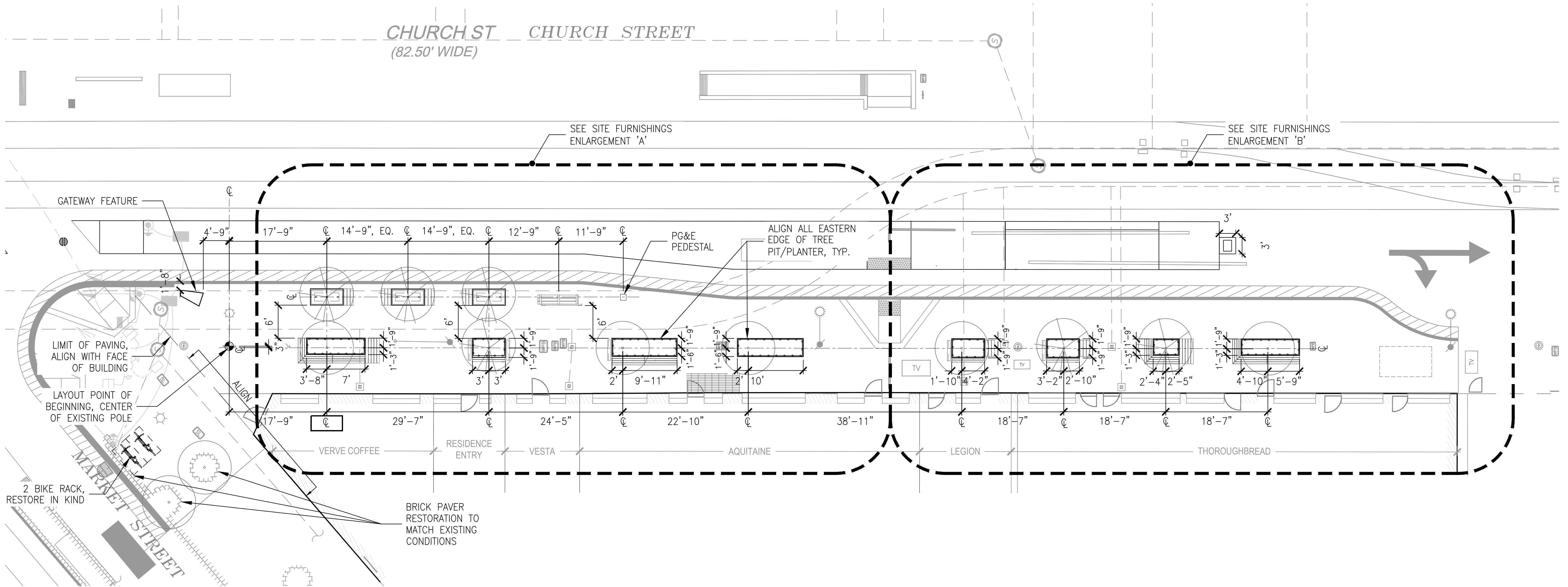


MUNI METRO SYSTEM
CHURCH AND MARKET - MUNI FORWARD

TREE PROTECTION PLAN

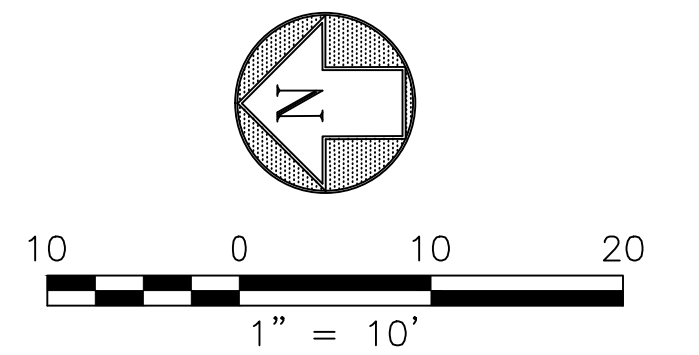
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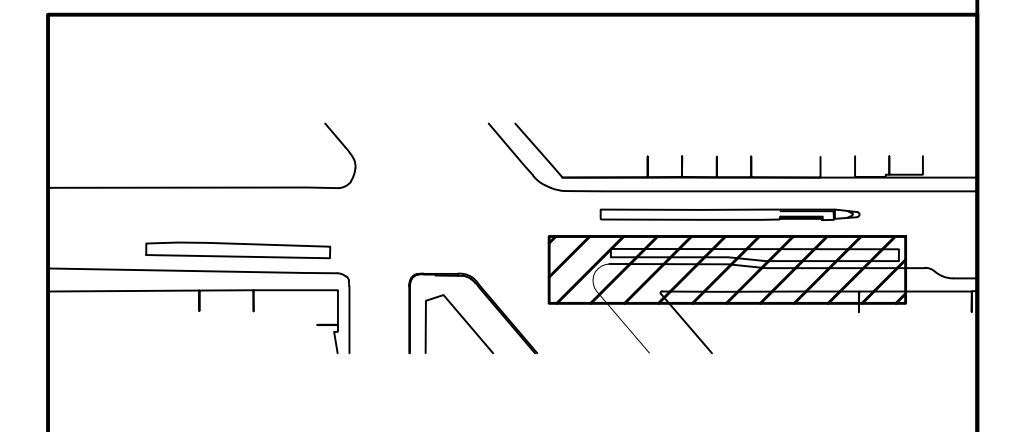


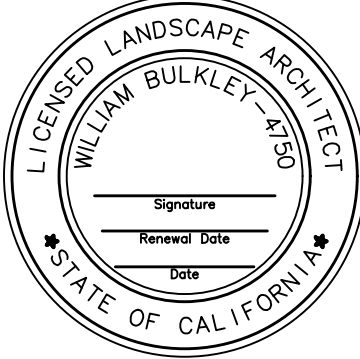
LAYOUT LEGEND

- CENTERLINE
- POINT OF BEGINING
- ALIGN
- PARALLEL
- (N) TREE
- (E) TREE



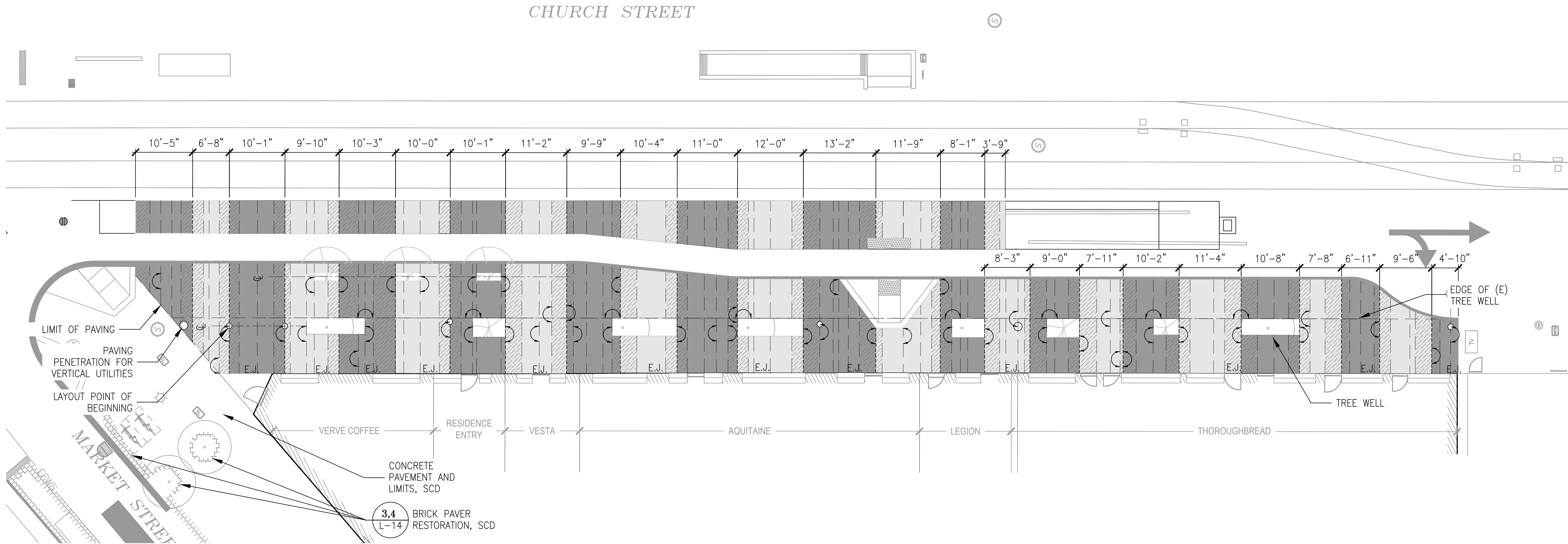
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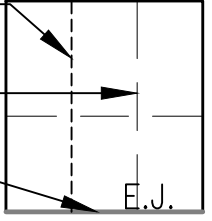
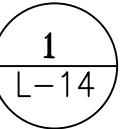
DRAFT 95% NOT FOR CONSTRUCTION					 BUREAU OF LANDSCAPE ARCHITECTURE 49 South Van Ness Avenue San Francisco, CA 94103		DESIGNED: WB DRAWN: CY CHECKED: WB REVIEWED: AE RECOMMENDED: PROJECT_ENGINEER APPROVED: PROGRAM_MANAGER DATE: DATE_SIGNED		  CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY 		MUNI METRO SYSTEM CHURCH AND MARKET – MUNI FORWARD		CONTRACT 1335	
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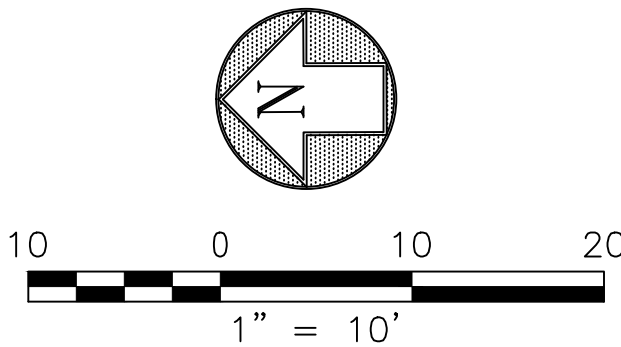
PAVING DESIGN LEGEND

SYMBOL	DESCRIPTION	DETAIL
DOWEL JOINT, TYP. CONTROL JOINT, TYP. EXPANSION JOINT, TYP. 	CONCRETE JOINTS	
	CONCRETE COLOR 1 TEXTURE 1	
	CONCRETE COLOR 2 TEXTURE 1	

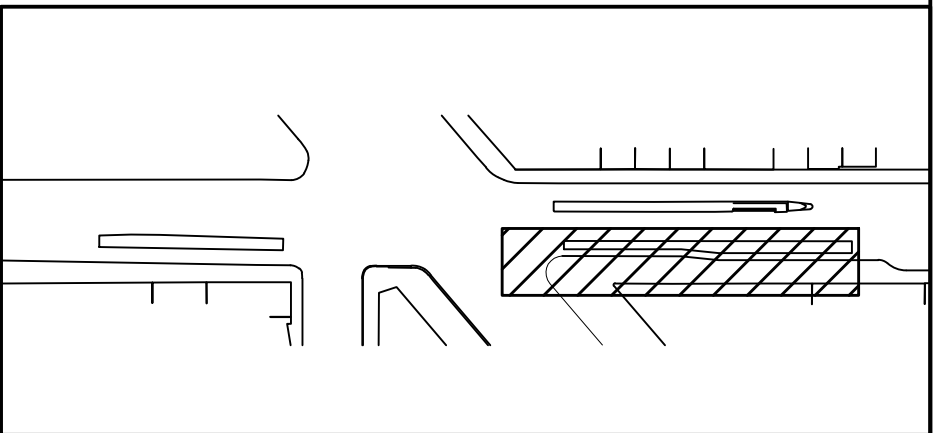
SYMBOL	DESCRIPTION	DETAIL
	CONCRETE COLOR 1 TEXTURE 2	
	CONCRETE COLOR 2 TEXTURE 2	

NOTES:

- DIMENSIONS FOR JOINTS ARE APPROXIMATE. ALIGNMENT MARKERS ARE MORE IMPORTANT.
- SEE CIVIL PLANS FOR CONCRETE SIDEWALK DETAILS AND LIMITS.



KEY PLAN

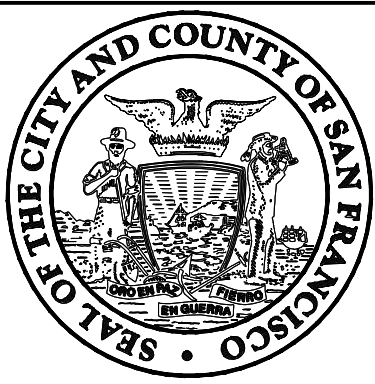
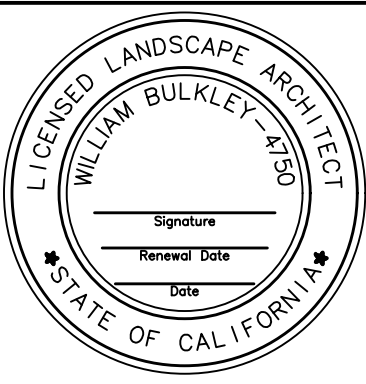


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CITY AND COUNTY OF SAN FRANCISCO
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MUNI METRO SYSTEM
CHURCH AND MARKET - MUNI FORWARD

PAVING PLAN

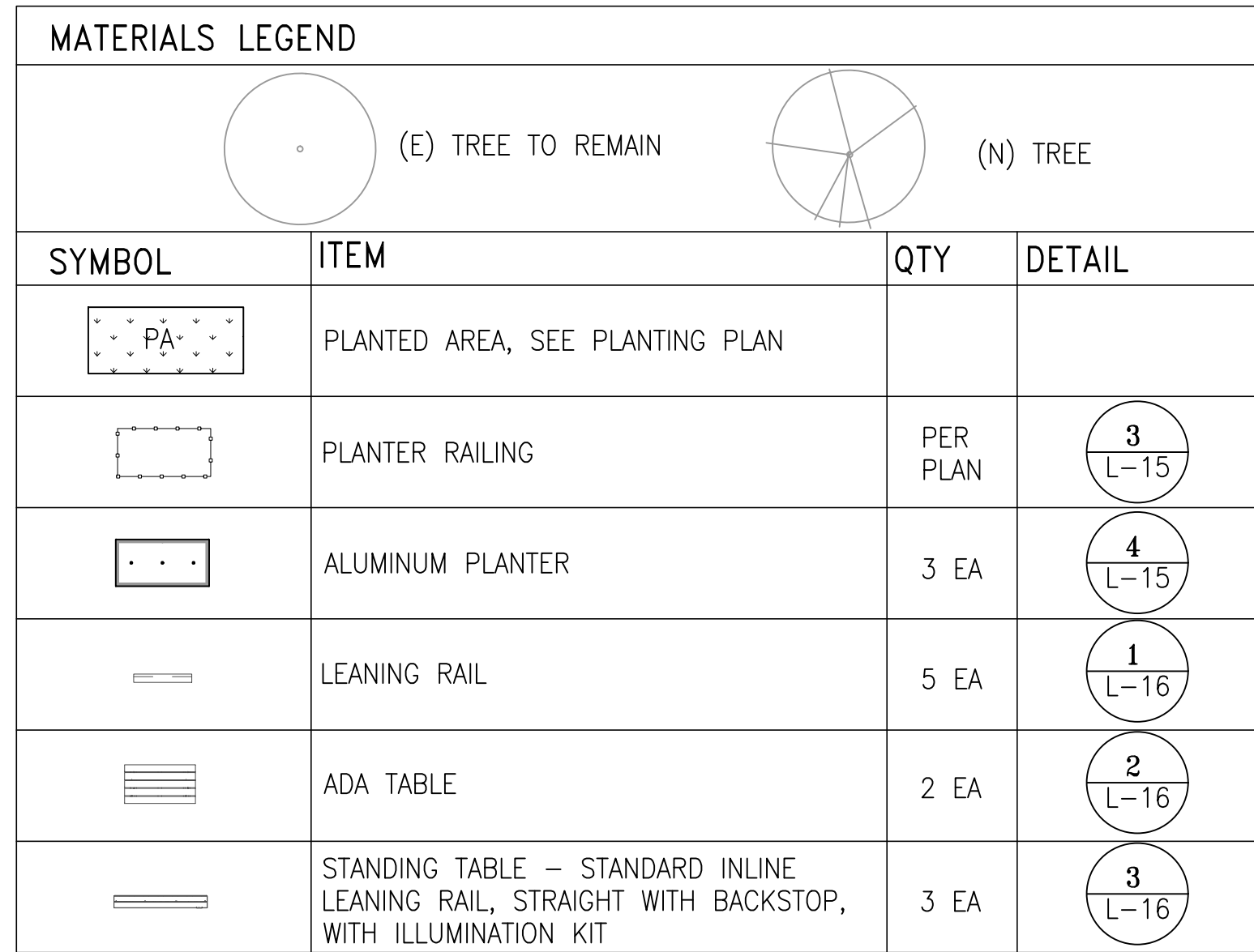
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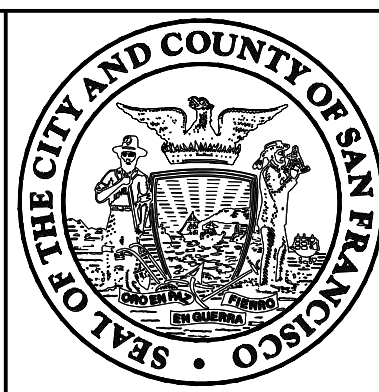
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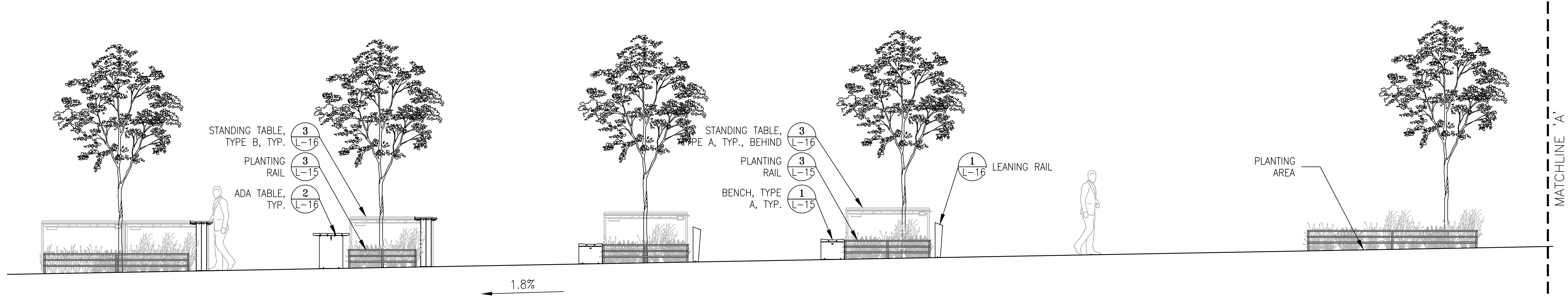
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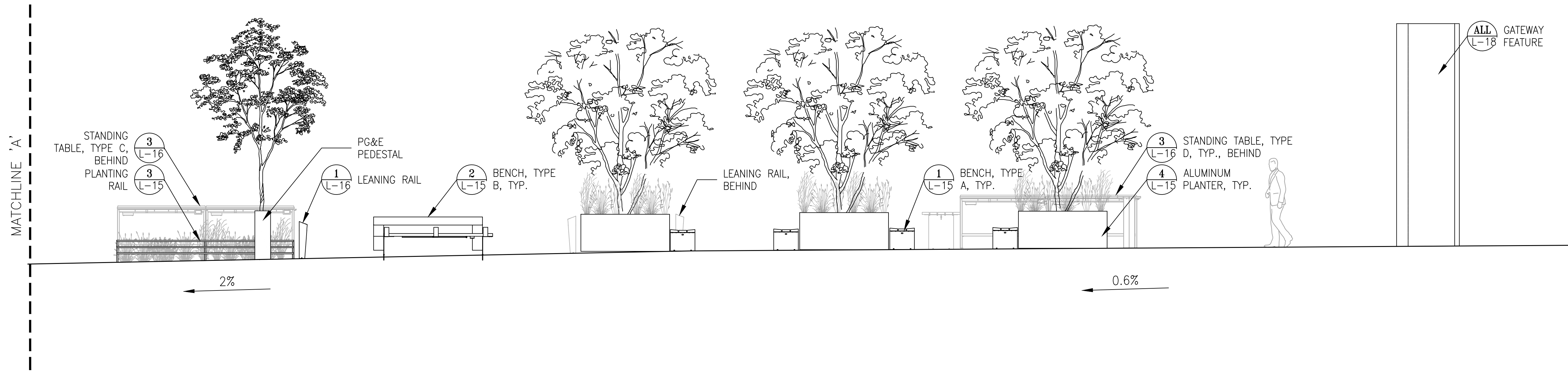


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1 WEST ELEVATION 1

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



2 WEST ELEVATION 2

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

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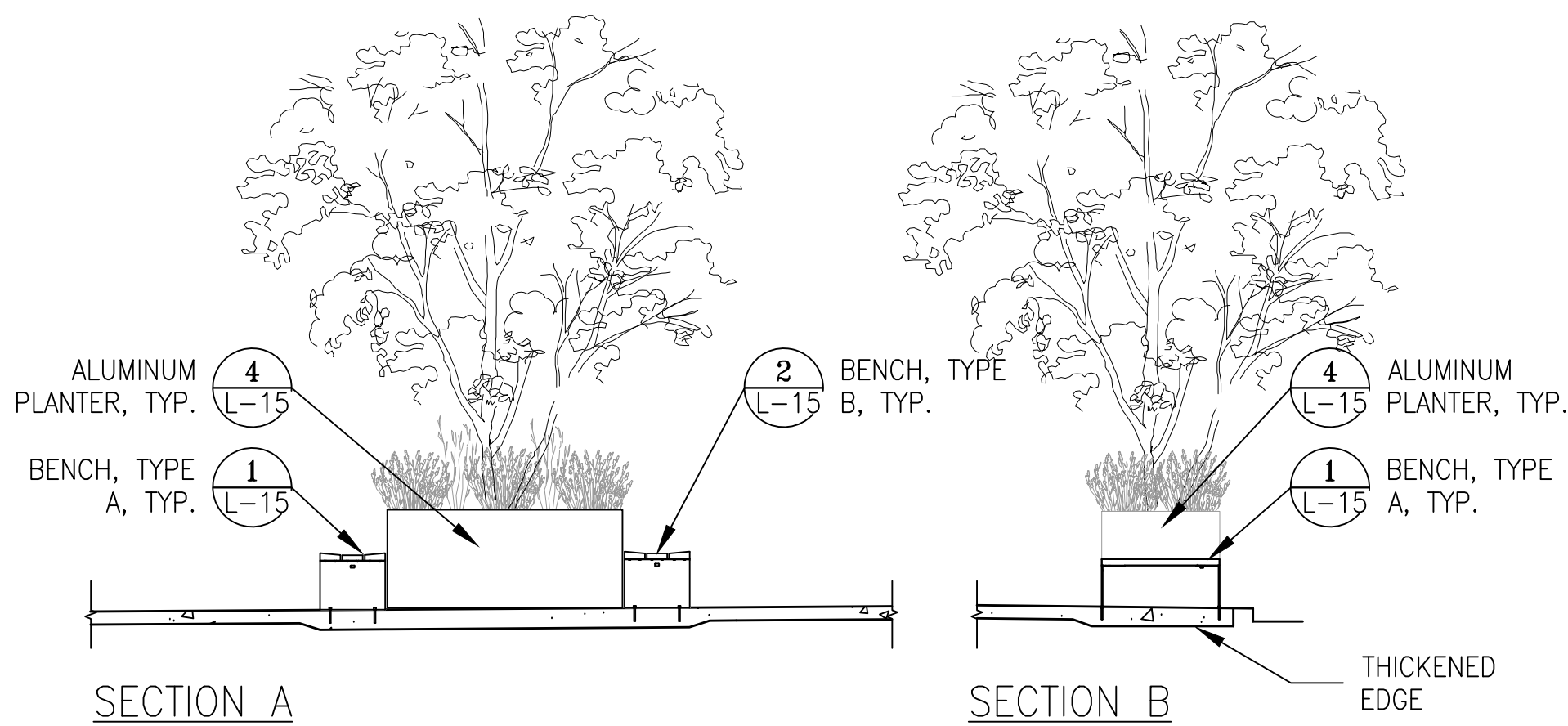
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49 South Van Ness Avenue
San Francisco, CA 94103

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MUNICIPAL TRANSPORTATION AGENCY

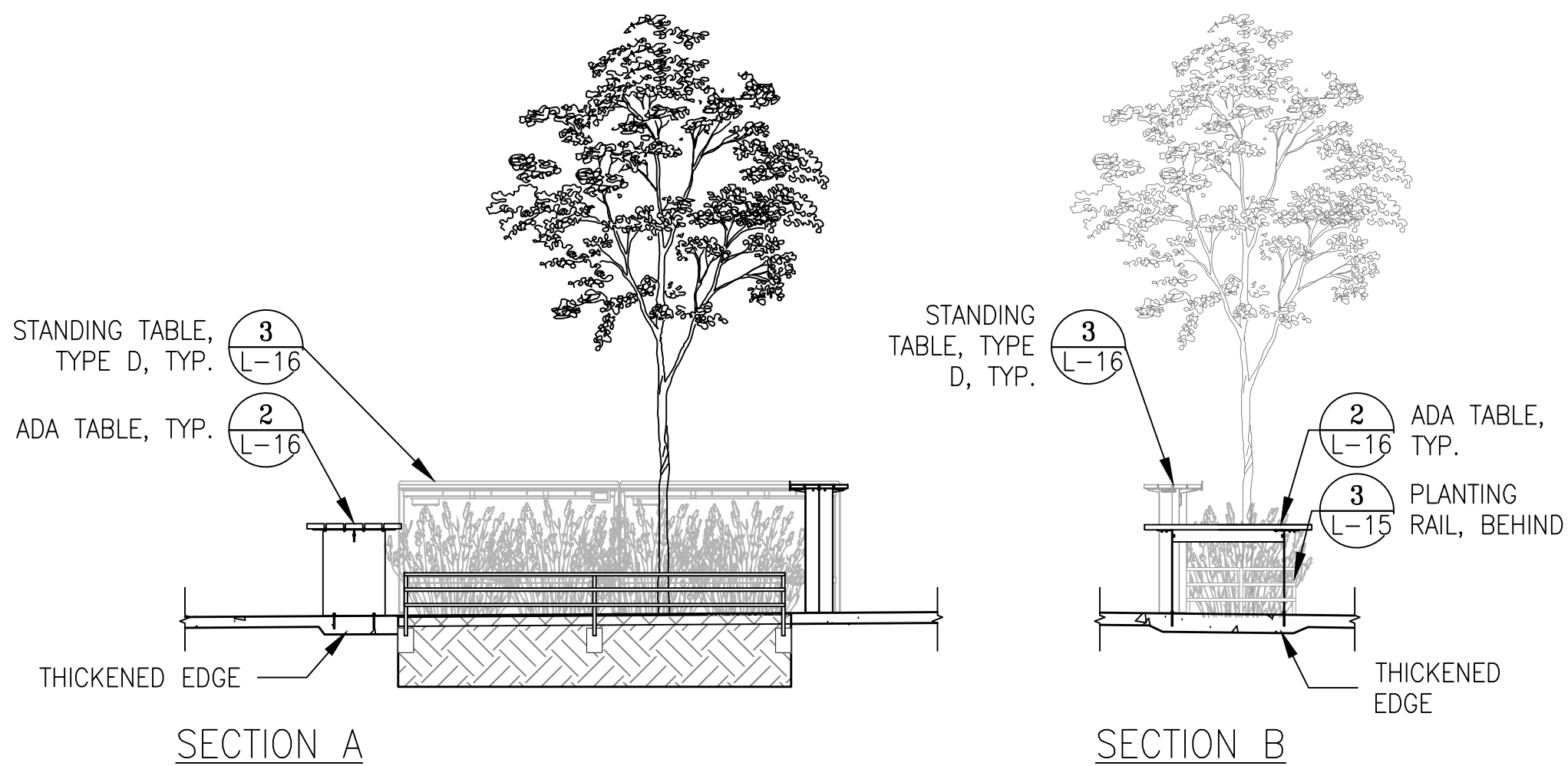
MUNI METRO SYSTEM CHURCH AND MARKET – MUNI FORWARD		CONTRACT 1335
SECTIONS/ELEVATIONS 1 of 2		DRAWING CL-
XXXX		REVISION 0

BORDER D SIZE - REVISED 02/01/23



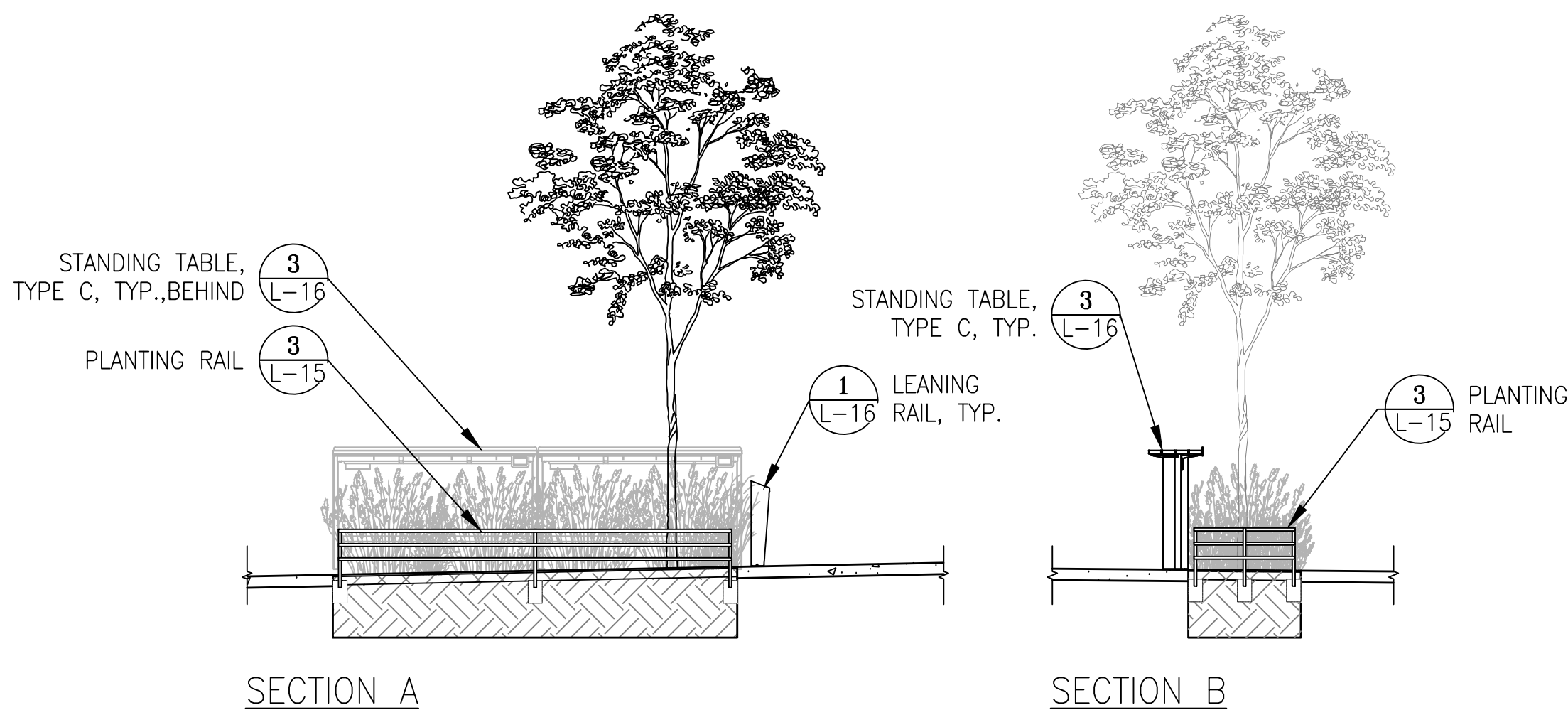
1 ALUMINUM PLANTER SECTION / ELEVATION

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



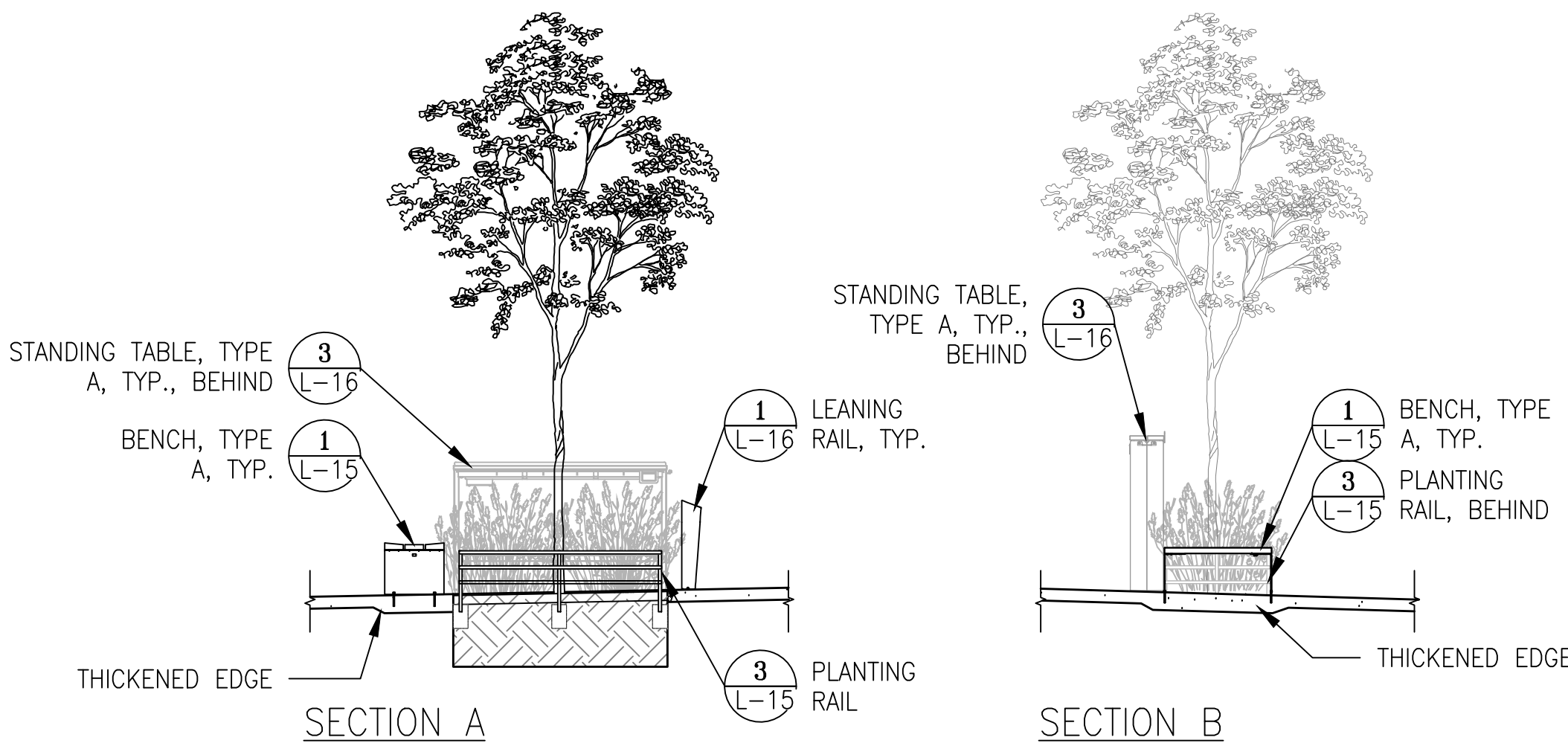
2 PLANTER SECTION / ELEVATION

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



3 PLANTER SECTION / ELEVATION

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



4 PLANTER SECTION / ELEVATION

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

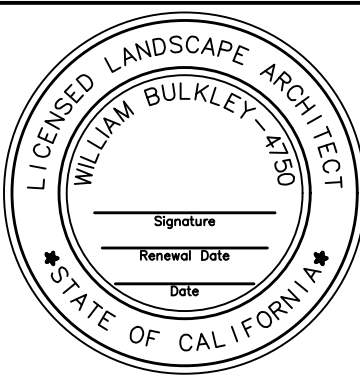
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MUNICIPAL TRANSPORTATION AGENCY

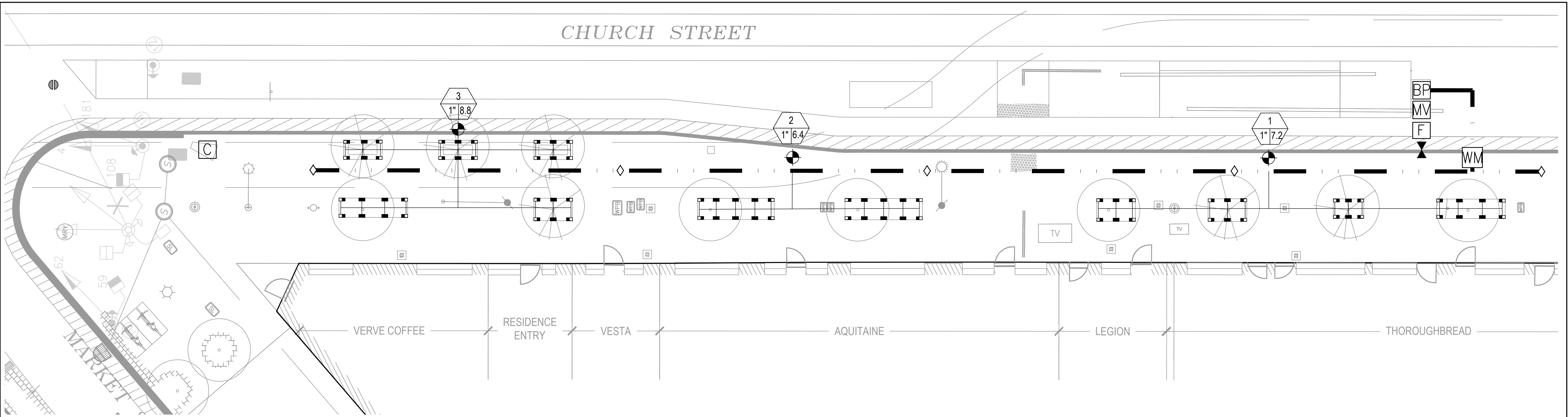


MUNI METRO SYSTEM
CHURCH AND MARKET - MUNI FORWARD

SECTIONS/ELEVATIONS
2 of 2

CONTRACT	1335
DRAWING	CL-
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IRRIGATION LEGEND

SYMBOL	MANUF.	DESCRIPTION	FLOW RATE (GPM)	PSI
		PROPOSED MAIN LINE: 1", SCH. 40 GALVANIZED STEEL PIPE, 16" MIN COVER.		
		LATERAL LINE: SCH 40 PVC, SCH 80 UNDER PAVING. SIZE PER LATERAL PIPING SIZE SCHEDULE, 12" MIN COVER.		
	HUNTER	A2C-3000-SBKIT/A2C-F3 ROAMXL-KIT - CONTROLLER TO MATCH BAYFRONT PARK		
	HUNTER	HUNTER IBV BRASS MASTER CONTROL VALVE INSTALLED WITH FCT FLOW SENSOR AFTER BACKFLOW PREVENTER		
		BACKFLOW PREVENTER AND ENCLOSURE		
		WATER METER		
		FLOW SENSOR		
	HUNTER	QUICK COUPLER, HQ44LRC, 1"		
	NIBCO	BRASS GATE VALVE-T113, 1"		
	HUNTER	BRASS VALVE: IBV-FS W/ ADJ. ACCU-SYNC SIZE AS REQ. INSTALL BALL VALVE SHUT OFF, LOCATE @ EACH VALVE IN SAME BOX, SEE DETAIL		
	HUNTER	POP-UP: PROS-30-4H (180) RADIUS 4'	0.40	30
	HUNTER	POP-UP: PROS-30-4Q (90) RADIUS 4'	0.20	30
	HUNTER	POP-UP: PROS-30-4Q (90) RADIUS 4'	0.20	30

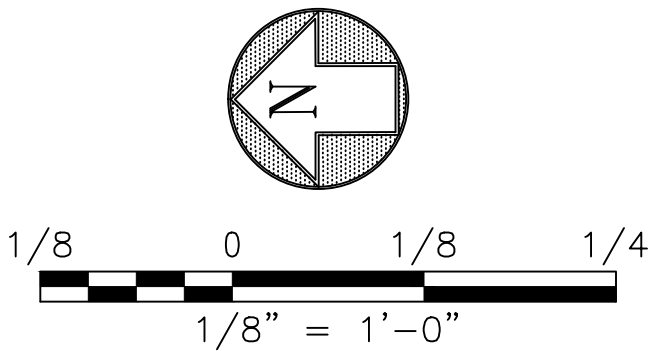
IRRIGATION NOTES

- THESE NOTES AND IRRIGATION PLAN GOVERN IRRIGATION INSTALLATION ONLY AND ARE NOT INTENDED TO GOVERN OTHER WORK.
- VERIFY LOCATIONS OF POINT OF CONNECTION AND MAIN LINES, PARTICULARLY IN RELATION TO THE PROPOSED METER PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCY BETWEEN THE DRAWINGS AND FIELD CONDITIONS WHICH AFFECTS IRRIGATION LAYOUT SHALL BE BROUGHT TO THE ATTENTION OF THE CITY REPRESENTATIVE PRIOR TO THE INSTALLATION OF ANY PIPE. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF AN IRRIGATION SYSTEM THAT PROVIDES 100% COMPLETE, HEAD TO HEAD COVERAGE TO ALL PLANTED AREAS. THE WORK OF THE CONTRACT SHALL INCLUDE ADJUSTMENTS TO THE SYSTEM INDICATED, INCLUDING QUANTITIES OF PIPING, HEADS, NOZZLES & OTHER EQUIPMENT, AS NECESSARY TO ASSURE COMPLETE COVERAGE WITHOUT ADDITIONAL COST TO THE CONTRACT.
- THE PLANS INDICATE A 100% NEW IRRIGATION SYSTEM UTILIZING A (N) 2" IRRIGATION METER. THE SYSTEM WAS CALCULATED FOR 40-70 PSI. ALERT THE CITY REPRESENTATIVE IF THIS PRESSURE DIFFERS FROM THE SITE CONDITION DOWNSTREAM OF THE BACKFLOW PREVENTER.
- ALERT THE CITY REPRESENTATIVE PRIOR TO TRENCHING, DEMO AND REMOVAL OF ANY PARTS OF THE EXISTING IRRIGATION SYSTEM FOR THE PURPOSE OF SALVAGING EXISTING HEADS AND USABLE EQUIPMENT. SALVAGE EQUIPMENT AT THE DIRECTION OF THE CITY REPRESENTATIVE. ABANDON EXISTING UNDERGROUND PORTIONS OF THE IRRIGATION SYSTEM IN PLACE AS REQUIRED, REMOVE AND DISPOSE OF UNDERGROUND EQUIPMENT WHERE CONFLICTS OCCUR AND DISPOSE OFFSITE PER LOCAL CODES AND AS THE CONTRACTOR'S OWN PROPERTY.
- THE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW EXACT LOCATIONS OF PIPING, VALVES OR CONTROL LINES. INSTALL THESE ITEMS PARALLEL TO AND AS CLOSELY AS POSSIBLE TO CURBS, HEADERS OR PAVING EDGES AND WITHIN PLANTED AREAS UNLESS OTHERWISE INDICATED, REFER TO IRRIGATION DETAILS. VERIFY IN FIELD THE EXACT LOCATIONS OF VALVE BOXES, GATE VALVES AND QUICK COUPLERS WITH THE CITY REPRESENTATIVE PRIOR TO INSTALLATION.
- IRRIGATION HEAD LOCATIONS ARE INDICATED AS ACCURATELY AS POSSIBLE ON THE DRAWINGS. INSTALL HEADS AS INDICATED BY THE CENTERLINE OF THE SYMBOL AND IN ACCORDANCE WITH INSTALLATION DETAILS AND MANUFACTURER'S RECOMMENDATIONS.
- COORDINATE WORK WITH ALL APPROPRIATE TRADES FOR THE INSTALLATION OF PIPING, PIPE SLEEVES AND ELECTRICAL CONDUIT.
- INSTALL ALL OTHER CONTROL WIRING IN SCH 40 PVC SLEEVING OF SUFFICIENT SIZE FOR EASY INSERTION AND REMOVAL.

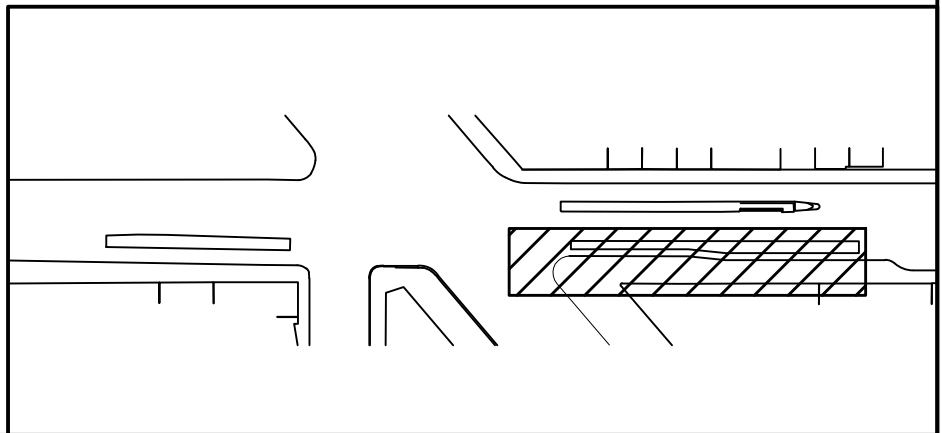
- INSTALL EACH SOLENOID VALVE IN A SEPARATE VALVE BOX PER DETAIL.
- POP-UP SPRINKLER HEIGHT: INSTALL 12" IN GROUND COVER/ SHRUB AREAS, 6" IN LAWN AREAS.
- THE IRRIGATION SYSTEM HAS BEEN DESIGNED FOR 40-45 PSI AND A MAXIMUM GPM OF 33. NOTIFY THE CITY REPRESENTATIVE IMMEDIATELY, IF THERE ARE DISCREPANCIES.
- PROVIDE TEMPORARY FENCING AS AS REQUIRED DURING TRENCHING AND CONSTRUCTION FOR SAFETY OF PUBLIC PER CCSF STANDARD SPECIFICATIONS. ALERT CITY REPRESENTATIVE PRIOR TO CONSTRUCTION.
- ALL NEW AND RELOCATED TREES SHALL RECEIVE BUBBLER IRRIGATION PER THE SPECIFICATIONS AND DRAWINGS.
- CONTRACTOR TO REPAIR ANY PART OF THE IRRIGATION SYSTEM TO REMAIN THAT IS DAMAGED DURING CONSTRUCTION.
- IRRIGATION PIPING DOWNSTREAM OF THE REMOTE CONTROL VALVE SHALL BE SIZED PER THE LATERAL PIPE SIZING SCHEDULE.
- REFER TO THE IRRIGATION LEGEND FOR SPRINKLER FLOW RATES (GPM). NO PIPING DOWNSTREAM OF THE REMOTE CONTROL VALVE TO THE SPRINKLER SHALL BE SIZED SMALLER THAN THE SPRINKLER THREADED INLET SIZE.

LATERAL PIPING SIZE SCHEDULE	
GPM	PIPE SIZE (NOMINAL SCH 40 PVC)
8 OR LESS	3/4" ø
13	1" ø
23	1 1/4" ø
32	1 1/2" ø
53	2" ø
74	2 1/2" ø
116 OR MORE	3" ø

NOTE:
IRRIGATION PIPING DOWNSTREAM OF THE REMOTE CONTROL UNIT SHALL BE SIZED PER THE CHART ABOVE AND NOT INDICATED ON THE PLAN DRAWINGS. REFER TO THE IRRIGATION LEGEND FOR SPRINKLER FLOW RATES (GPM). NO PIPING DOWNSTREAM OF THE REMOTE CONTROL VALVE TO THE SPRINKLER SHALL BE SIZED SMALLER THAN THE SPRINKLER THREADED INLET SIZE.



KEY PLAN

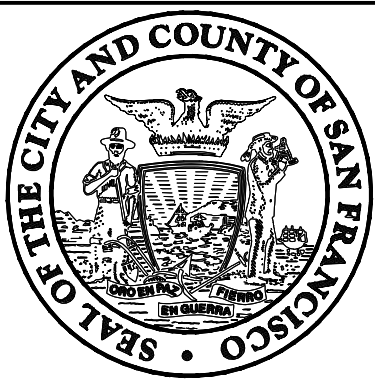
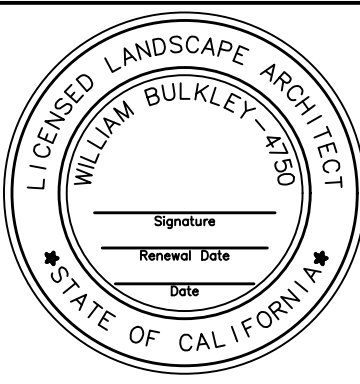


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CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY



MUNI METRO SYSTEM
CHURCH AND MARKET - MUNI FORWARD

IRRIGATION PLAN

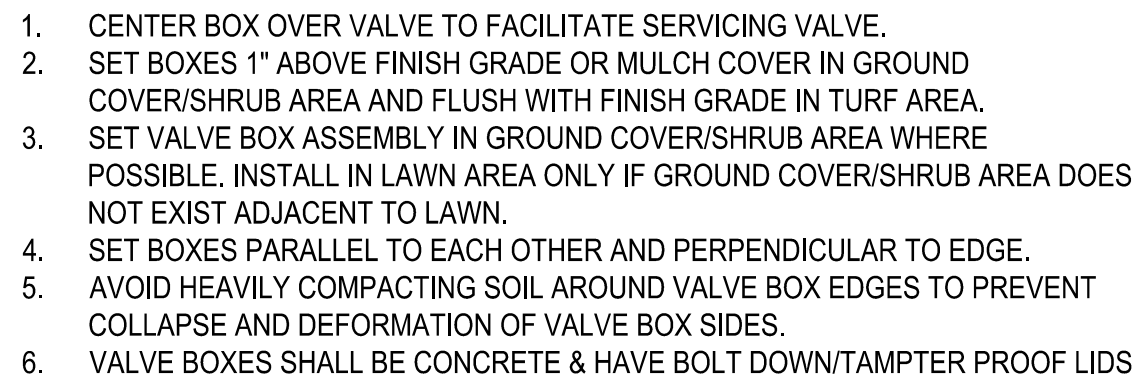
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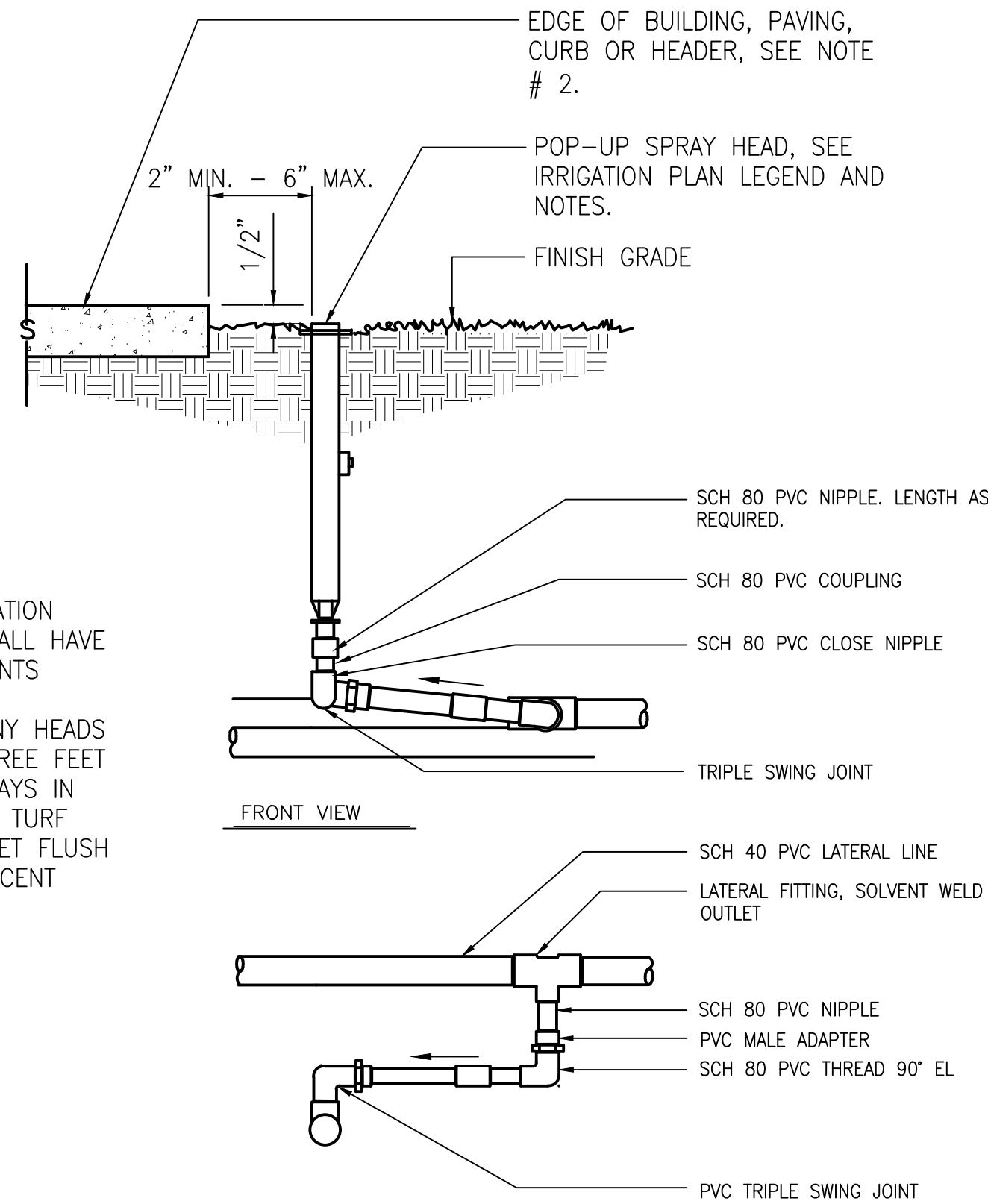


- ① CONCRETE VALVE BOX WITH BOLT DOWN/TAMPER PROOF LID
- ② FINISHED GRADE
- ③ REMOTE CONTROL VALVE, SEE NOTE 1
- ④ WATERPROOF CONNECTORS, SEE NOTE 2
- ⑤ 18-24" COILED WIRE
- ⑥ BRASS NIPPLE, SEE NOTE 2
- ⑦ MAINLINE PIPE AND FITTINGS
- ⑧ 3/4" DRAIN ROCK, W/ 1/2" 16 GAUGE, GALV. WIRE MESH SURROUND
- ⑨ PVC LATERAL PIPING
- ⑩ GS UNION, LINE SIZE
- ⑪ BRASS BALL VALVE, LINE SIZE
- ⑫ CONDUIT WITH WATERTIGHT SEALED END
- ⑬ GALVANIZED STEEL PIPING

1. MOUNT CONTROLLER WITH LCD SCREEN 5'-6" ABOVE FINISHED FLOOR
2. CONTROLLER SHALL BE HARD WIRED TO GROUND 110 VAC ELECTRICAL SOURCE.
3. CONDUIT TO BE SECURED TO WALL PER ELECTRICAL CODE, MINIMUM OF 3 LOCATIONS

1. FOR 4 INCH DIA. OR LARGER MAIN LINE CONNECTION, USE A SADDLE CONNECTION
2. FOR 3 INCH DIA. OR SMALLER MAIN LINE CONNECTION, USE A THREADED TEE.
3. UNLESS OTHERWISE NOTED, FITTINGS ARE 1 1/4" IPT SIZE.
4. INSTALL QCV PERPENDICULAR TO EXISTING GRADE UNLESS FIELD CONDITIONS REQUIRE ADJUSTMENT.
5. FINGER-TIGHTEN O-RING JOINTS AND BACK-OFF ONE FULL TURN TO ALLOW SWING ACTION.
PROVIDE 10 INCHES BETWEEN CENTER LINES OF ELBOWS ON SWING ARM.
6. USE A 1-1/4" GS SWING JOINT (MIPT INLET X MIPT OUTLET), FOR QUICK COUPLING VALVE.
7. INSTALL THE SWING JOINT LAY ARM AT AN ANGLE BETWEEN 30° AND 45° OF THE MAIN IN
ORDER TO ABSORB DOWNWARD IMPACT.
8. QUICK COUPLERS ARE TO BE INSTALLED IN TURF/PLATING AREAS UNLESS SHOWN ON THE DWGS

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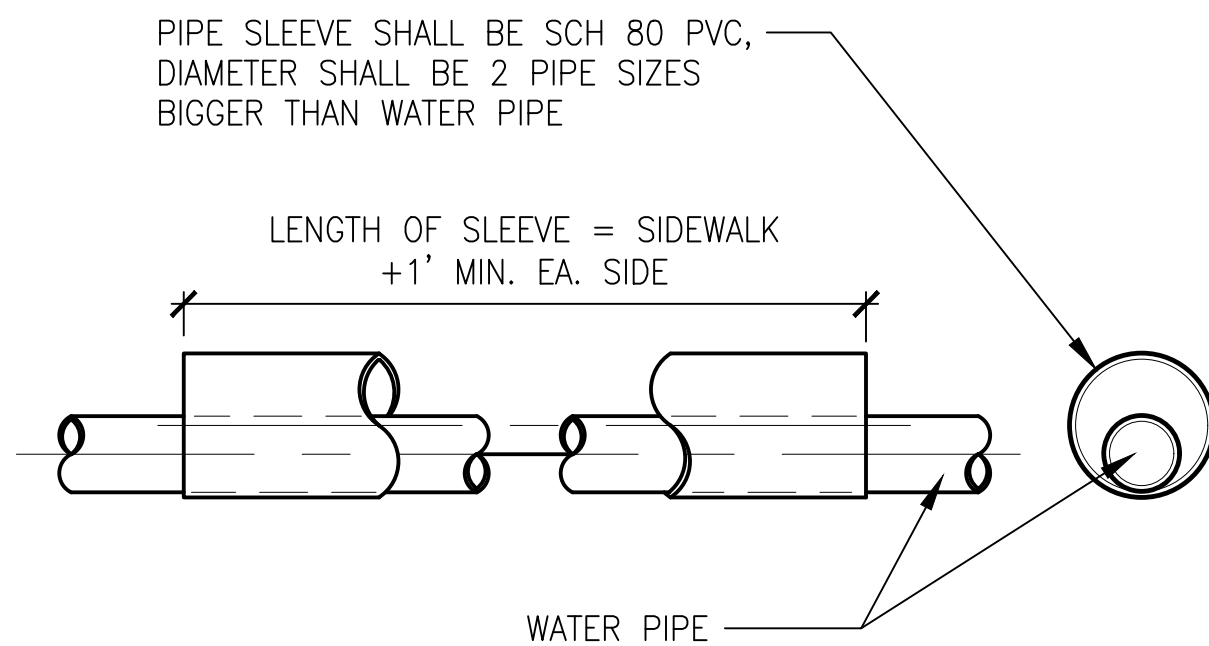


NOTE:

1. ALL IRRIGATION HEADS SHALL HAVE SWING JOINTS
2. INSTALL ANY HEADS WITHIN THREE FEET OF PATHWAYS IN CONCRETE TURF BLOCKS SET FLUSH WITH ADJACENT PATHWAY.

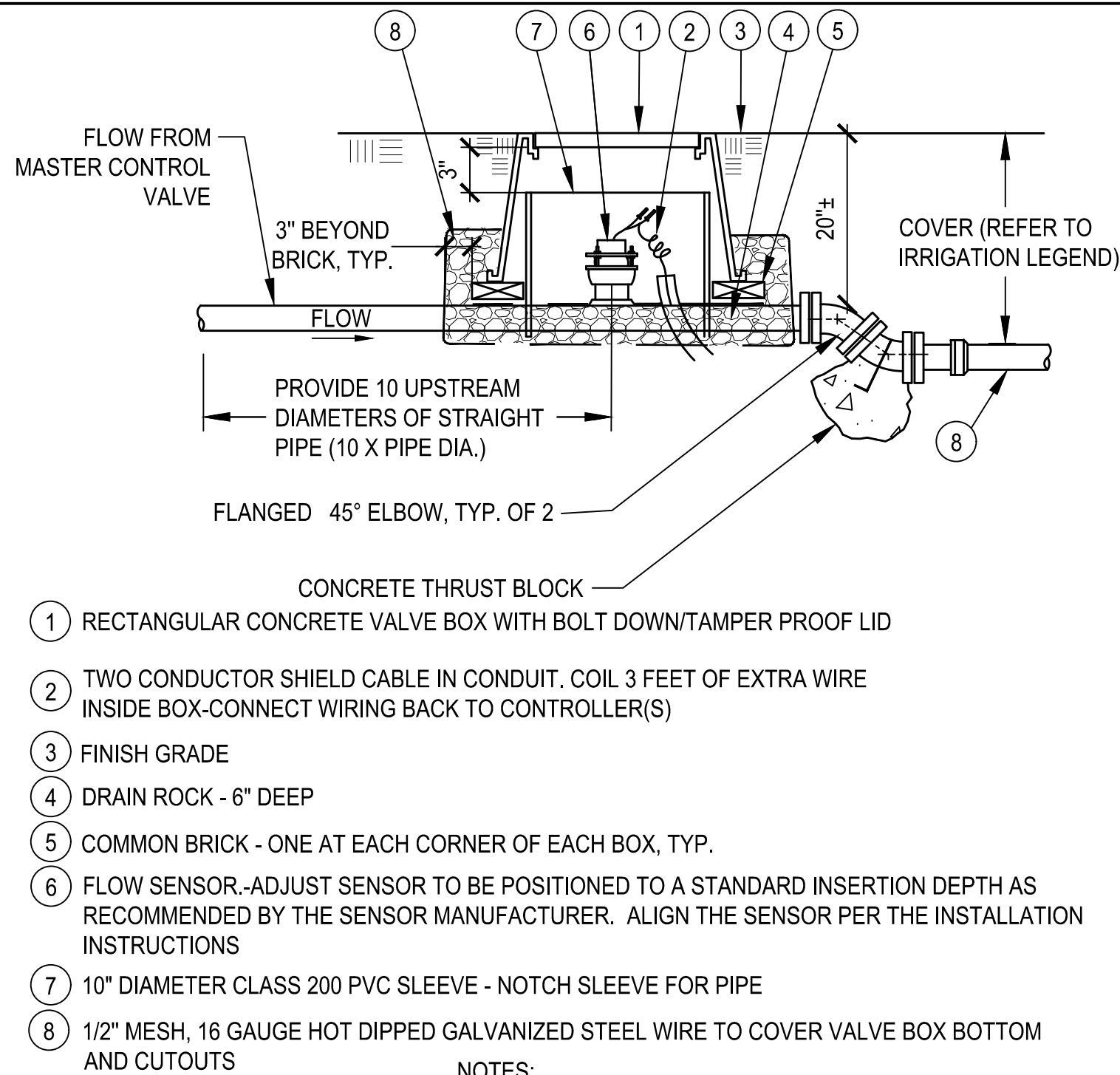
5 POP-UP SPRAY HEAD

SCALE: NTS



6 PIPE SLEEVE

SCALE: NTS

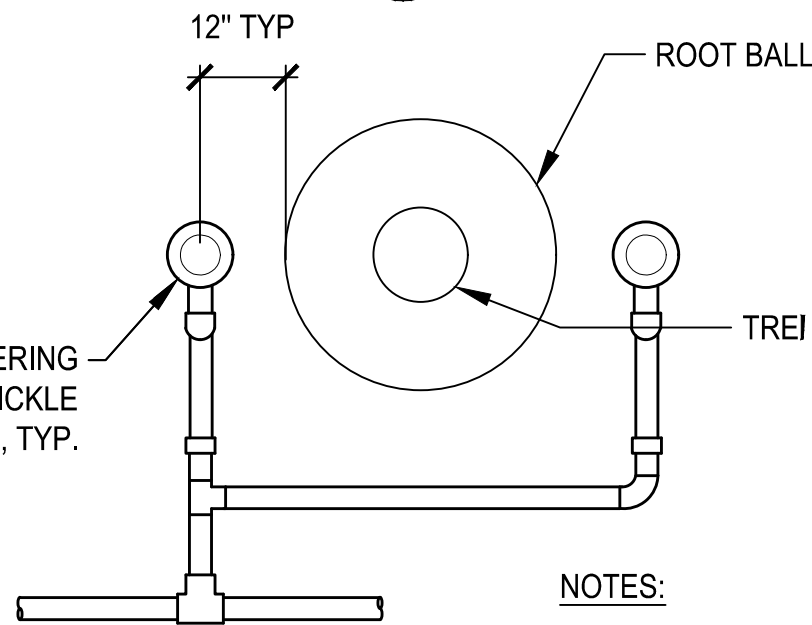


NOTES:

1. INSTALL FLOW SENSOR ONTO SERVICE SADDLE OR THREADOLET WELDED ONTO PIPE. PAINT APPROVED ASPHALT COATING THE THREADOLET & WELDED AREA.
2. DECODER / WIRING NOT SHOWN, REFER TO CONTROLLER MANUFACTURER FOR INSTALLATION LAYOUT.

3 FLOW SENSOR

SCALE: NTS



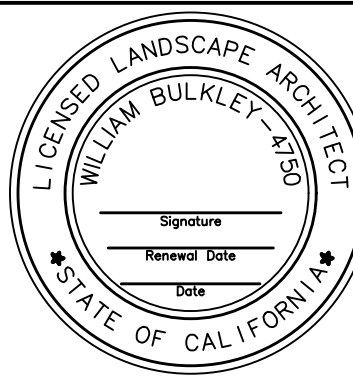
NOTES:

1. REFER TO LANDSCAPE DRAWINGS FOR EXACT LOCATIONS OF TREES TO BE WATERED
2. FIELD ADJUST ASSEMBLY LOCATIONS AS REQUIRED.
3. BUBBLERS SHALL BE LOCATED UPHILL OF THE TREE ROOT BALL WHEN TREE IS LOCATED ON A SLOPED GRADE.

36" ROOT WATERING ASSEMBLY WITH TRICKLE PATTERN BUBBLER, TYP. OF 2
CONNECT TO ASSEMBLY 1/2" MPT INLET, TYP.
1/2" PVC RISER, TYP.

4 BUBBLER INSTALALTION @ TREE PIT

SCALE: NTS

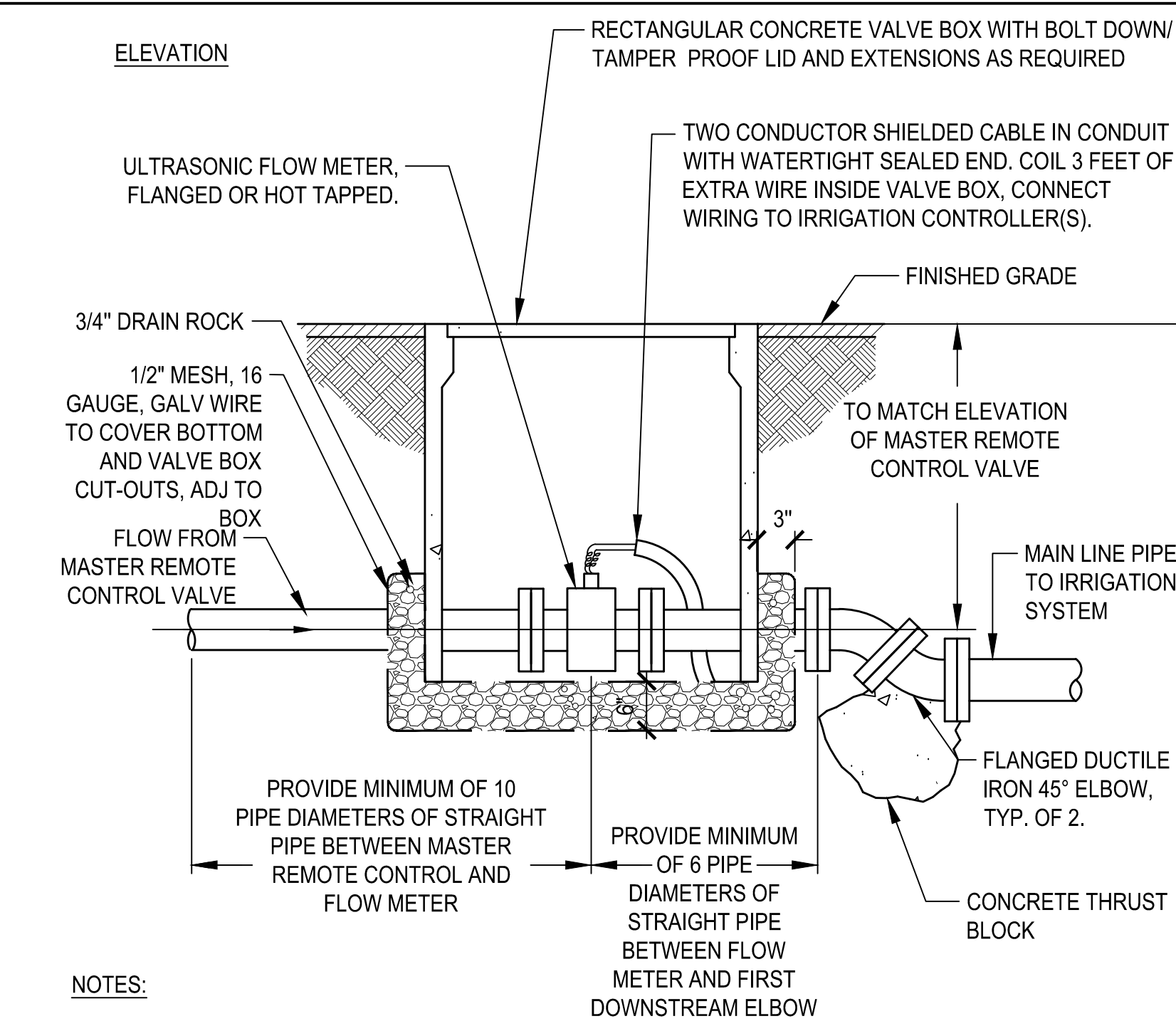


CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY



2 TRENCH DETAIL

SCALE: NTS

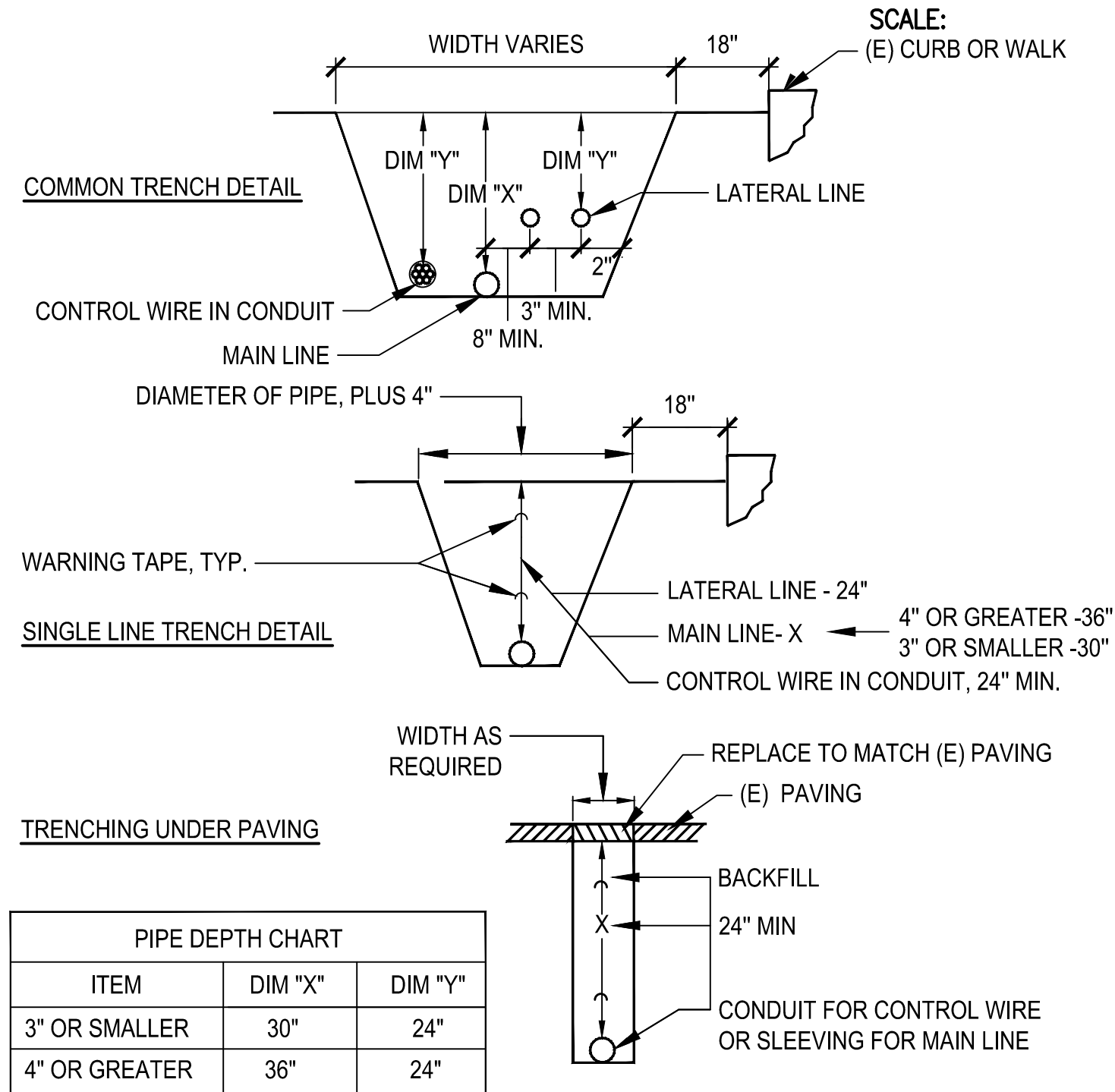


NOTES:

1. INSTALL FLOW METER PER THE MANUFACTURER'S INSTRUCTIONS.
2. CONDUIT AND WIRING NOT SHOWN, REFER TO CONTROLLER MANUFACTURER'S DETAILS FOR INSTALLATION LAYOUT AND THE SPECIFICATIONS.

1 FLOW METER DETAIL

SCALE: NTS



NOTES:

1. COMPACT BACKFILL MATERIAL TO 95% RELATIVE COMPACTION. PROVIDE NATIVE MATERIAL FOR BACKFILL THAT IS CLEAR OF ALL DEBRIS AND ROCKS LARGER THAN 3/4" IN DIAMETER.
2. PROVIDE 3' MINIMUM CLEARANCE BETWEEN IRRIGATION LINES AND VARIOUS UTILITIES, UNLESS APPROVED BY THE CITY REPRESENTATIVE.

PIPE DEPTH CHART		
ITEM	DIM "X"	DIM "Y"
3" OR SMALLER	30"	24"
4" OR GREATER	36"	24"

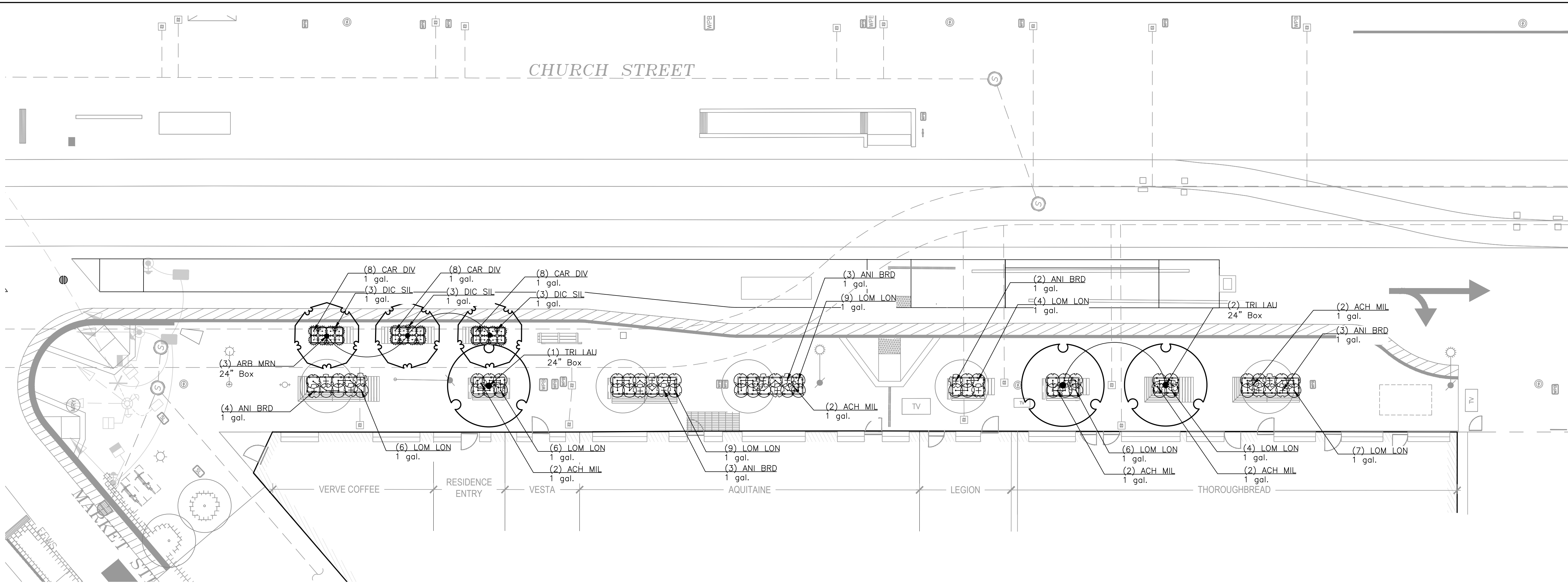
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3	4/30/26	95% BoLA			
2	4/17/26	65% BoLA - 95% PROJECT CONSTRUCTION DOCUMENTS			
1	12/31/25	35% BoLA - 95% PROJECT CONSTRUCTION DOCUMENTS			
NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					



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49 South Van Ness Avenue
San Francisco, CA 94103

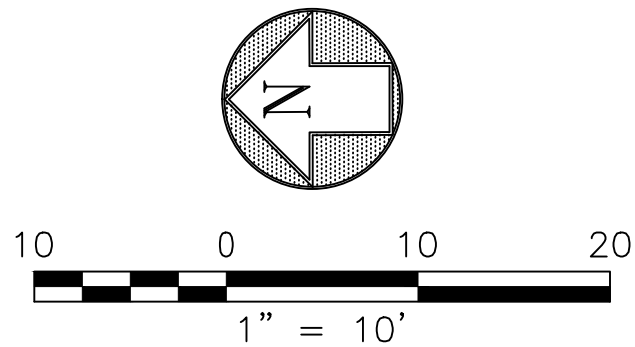
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REVIEWED	AE
RECOMMENDED	PROJECT ENGINEER
APPROVED	PROGRAM MANAGER
DATE	DATE_SIGNED

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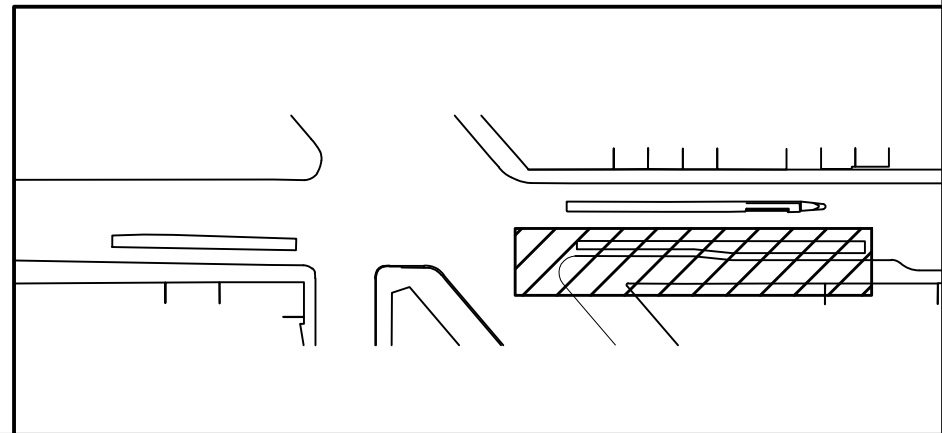


PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SIZE		QTY	REMARKS
TREES							
	ARB MRN	Arbutus x 'Marina'	Marina Strawberry Tree Standard	24" Box		3	
	TRI LAU	Tristaniopsis laurina	Water Gum	24" Box		3	
SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QTY	REMARKS
SHRUBS							
	ACH MIL	Achillea millefolium 'Terra Cotta'	Terra Cotta Yarrow	1 gal.	24" o.c.	10	
	ANI BRD	Anigozanthos x 'Big Red'	Big Red Kangaroo Paw	1 gal.	30" o.c.	15	
	CAR DIV	Carex divulsa	European Grey Sedge	1 gal.	24" o.c.	24	
	DIC SIL	Dichondra argentea 'Silver Falls'	Silver Falls Dichondra	1 gal.	12" o.c.	9	
	LOM LON	Lomandra longifolia 'LM300'	Breeze™ Mat Rush	1 gal.	30" o.c.	51	



KEY PLAN

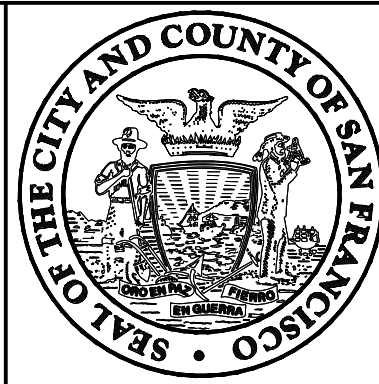
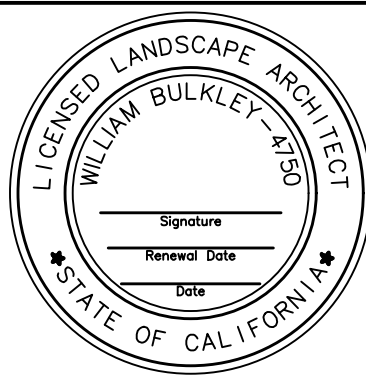


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DATE DATE_SIGNED



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY



MUNI METRO SYSTEM
CHURCH AND MARKET – MUNI FORWARD

PLANTING PLAN

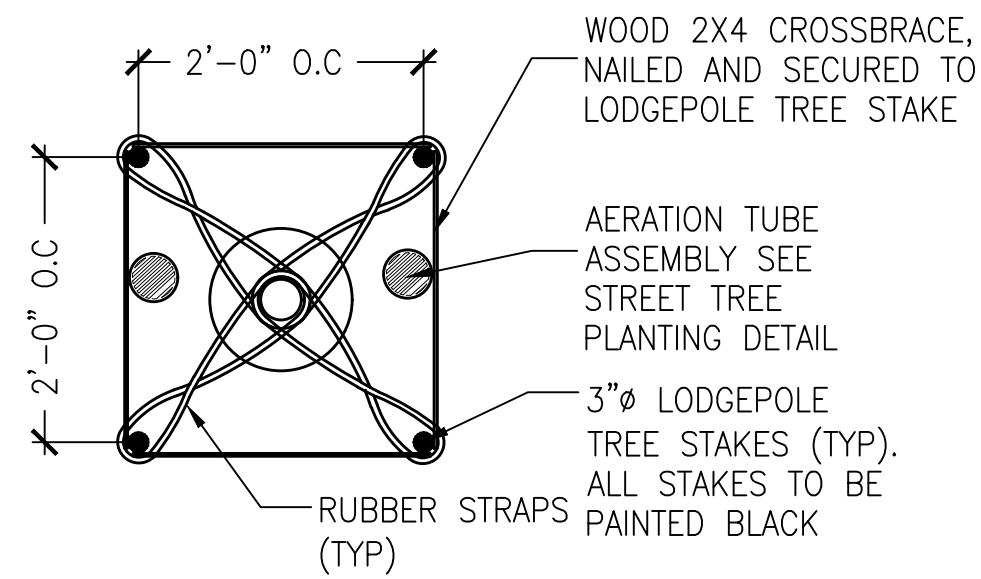
CONTRACT
1335

DRAWING
CL–

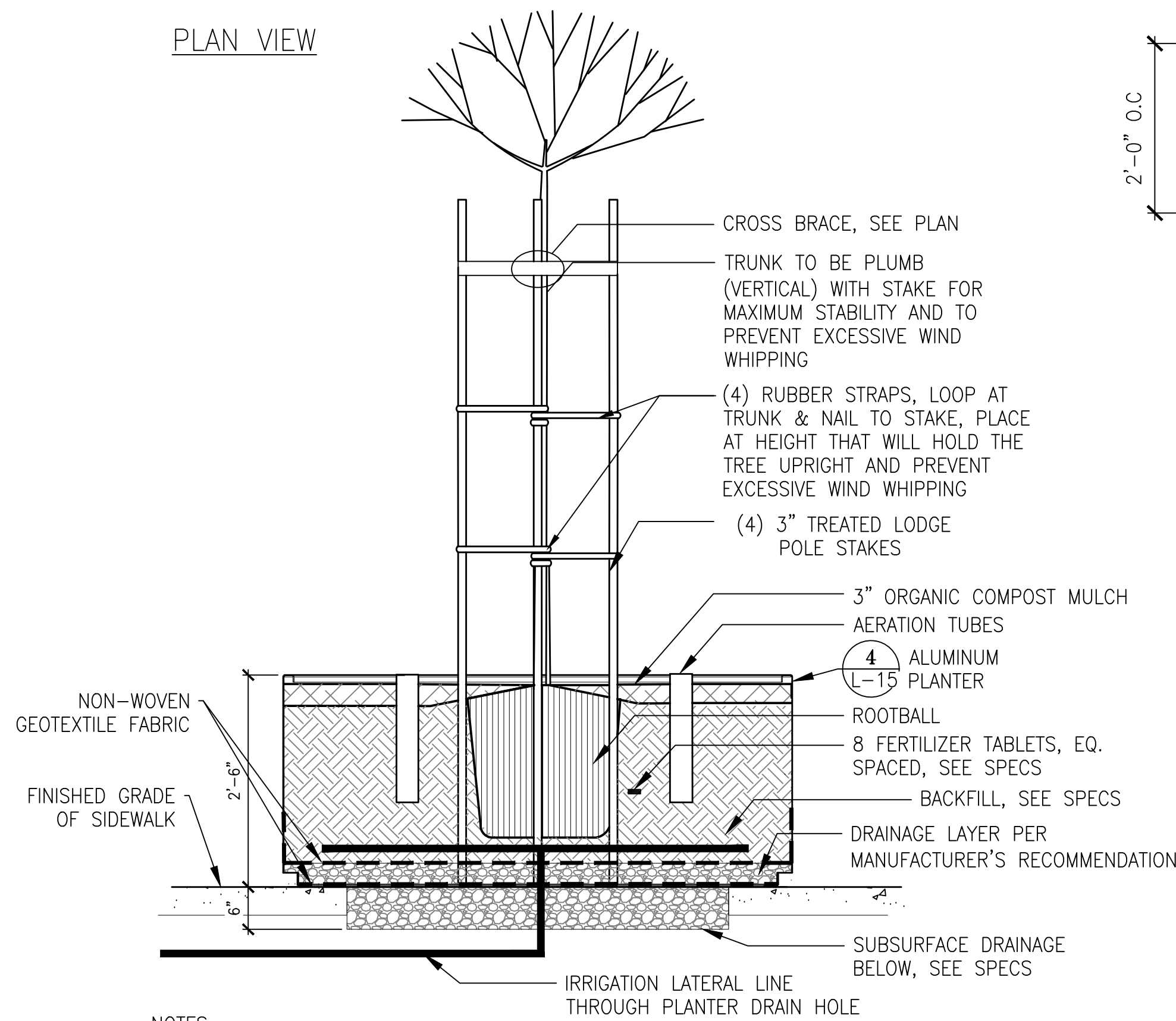
L–12

REVISION
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PLAN VIEW

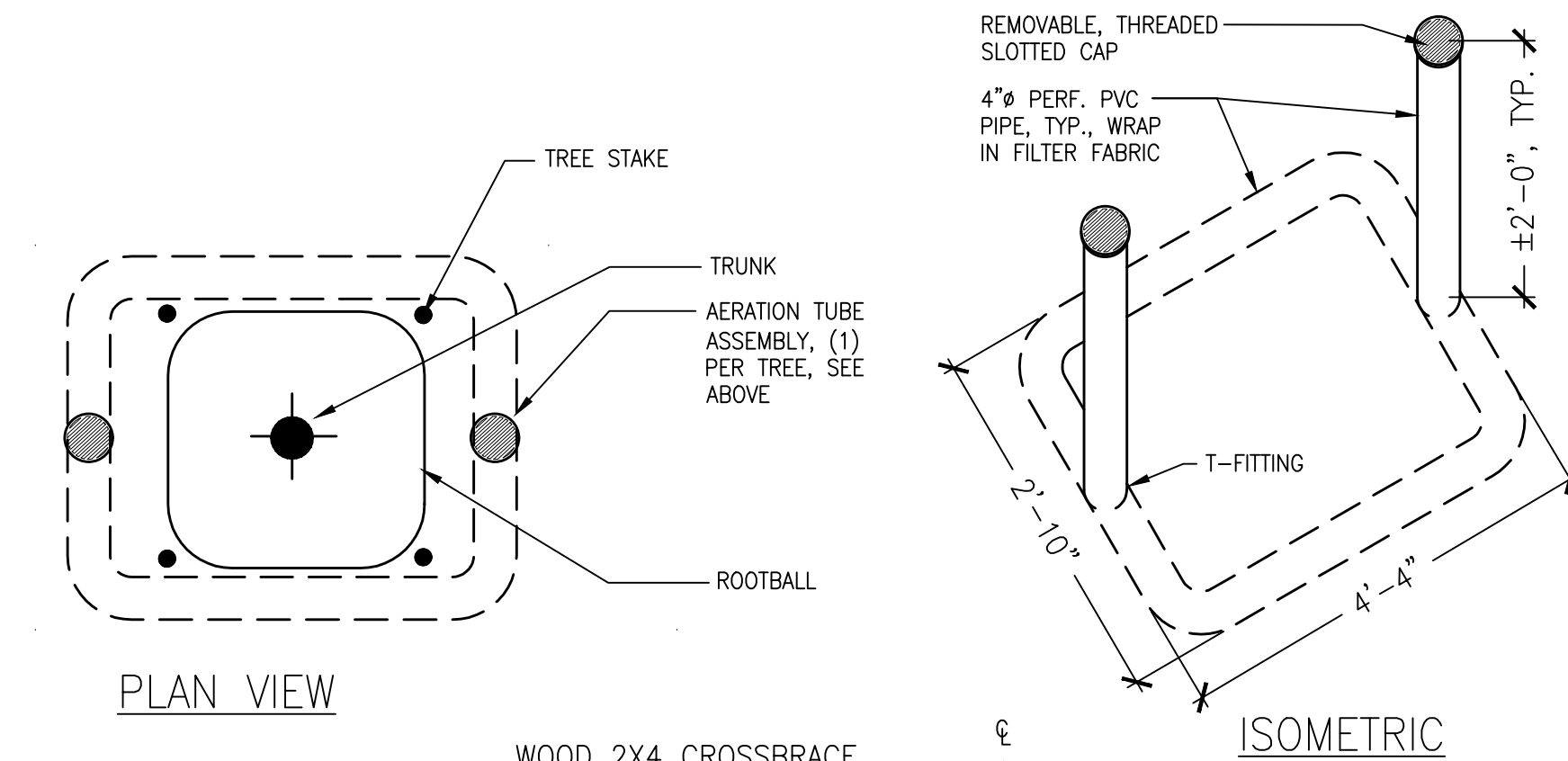


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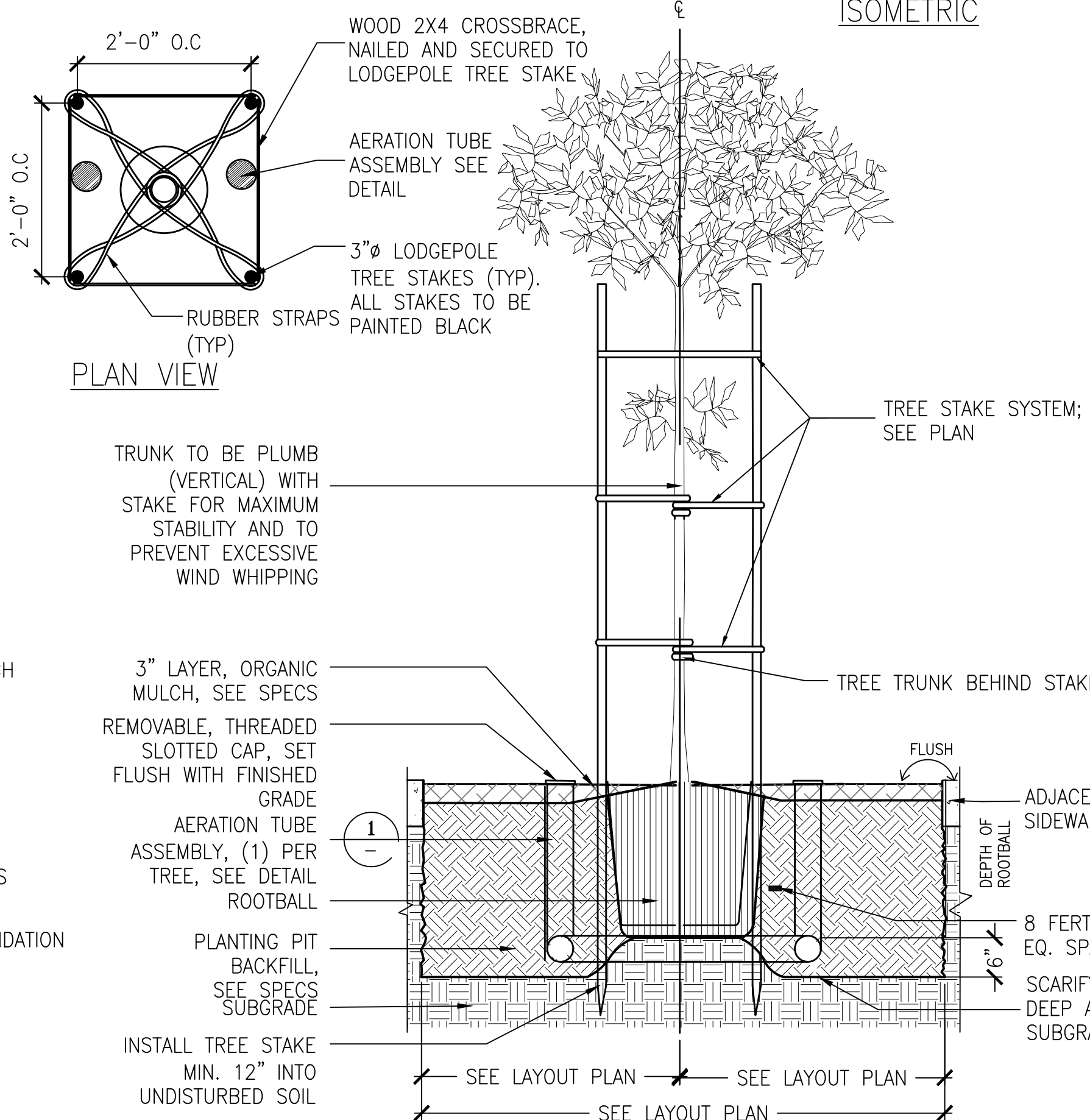
1. TREES SHALL NOT BE PRUNED UNLESS AT THE DIRECTION OF CITY REPRESENTATIVE.
2. ALL TREES AND SHRUBS TO RECEIVE 3" ORGANIC COMPOST MULCH, SEE PLANTING PREPARATION SPEC.
3. ENSURE PLANTERS ARE LEVEL AND PLUMB.

4 TREE PLANTING AT ALUMINUM PLANTER

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



PLAN VIEW

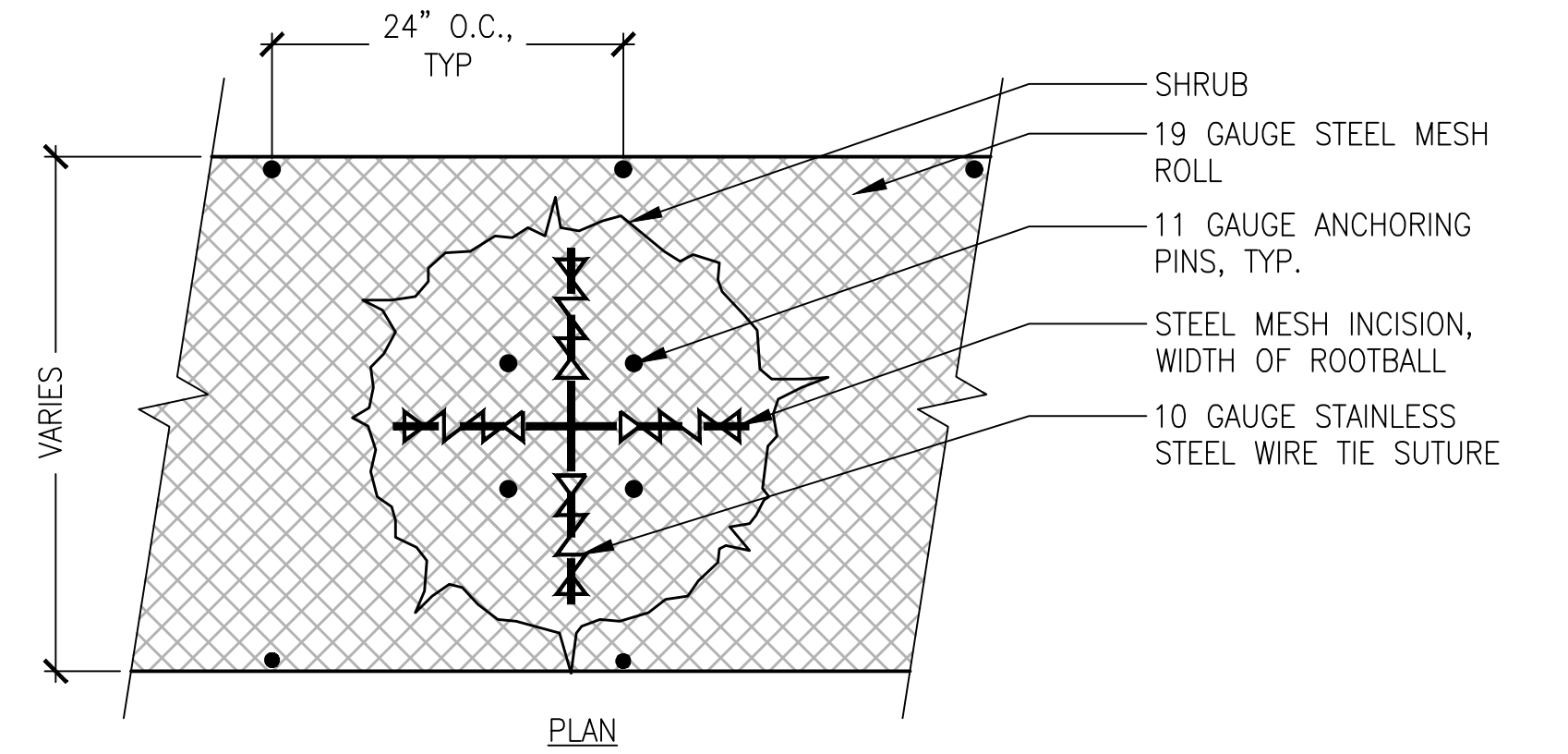


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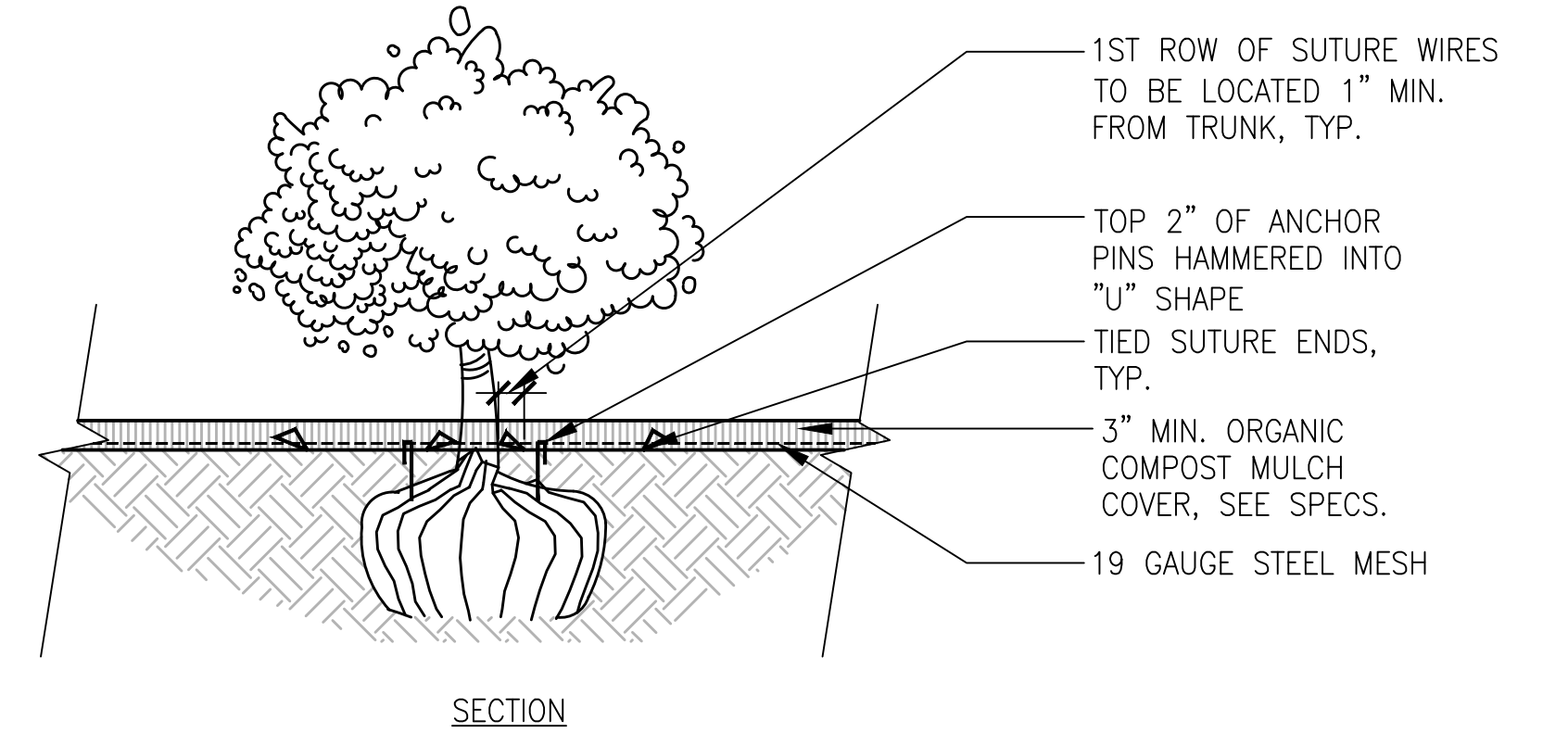
1. TREES SHALL NOT BE PRUNED UNLESS AT THE DIRECTION OF CITY REPRESENTATIVE.
2. ALL TREES AND SHRUBS TO RECEIVE 3" ORGANIC COMPOST MULCH, SEE PLANTING PREPARATION SPEC.

3 STREET TREE PLANTING

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



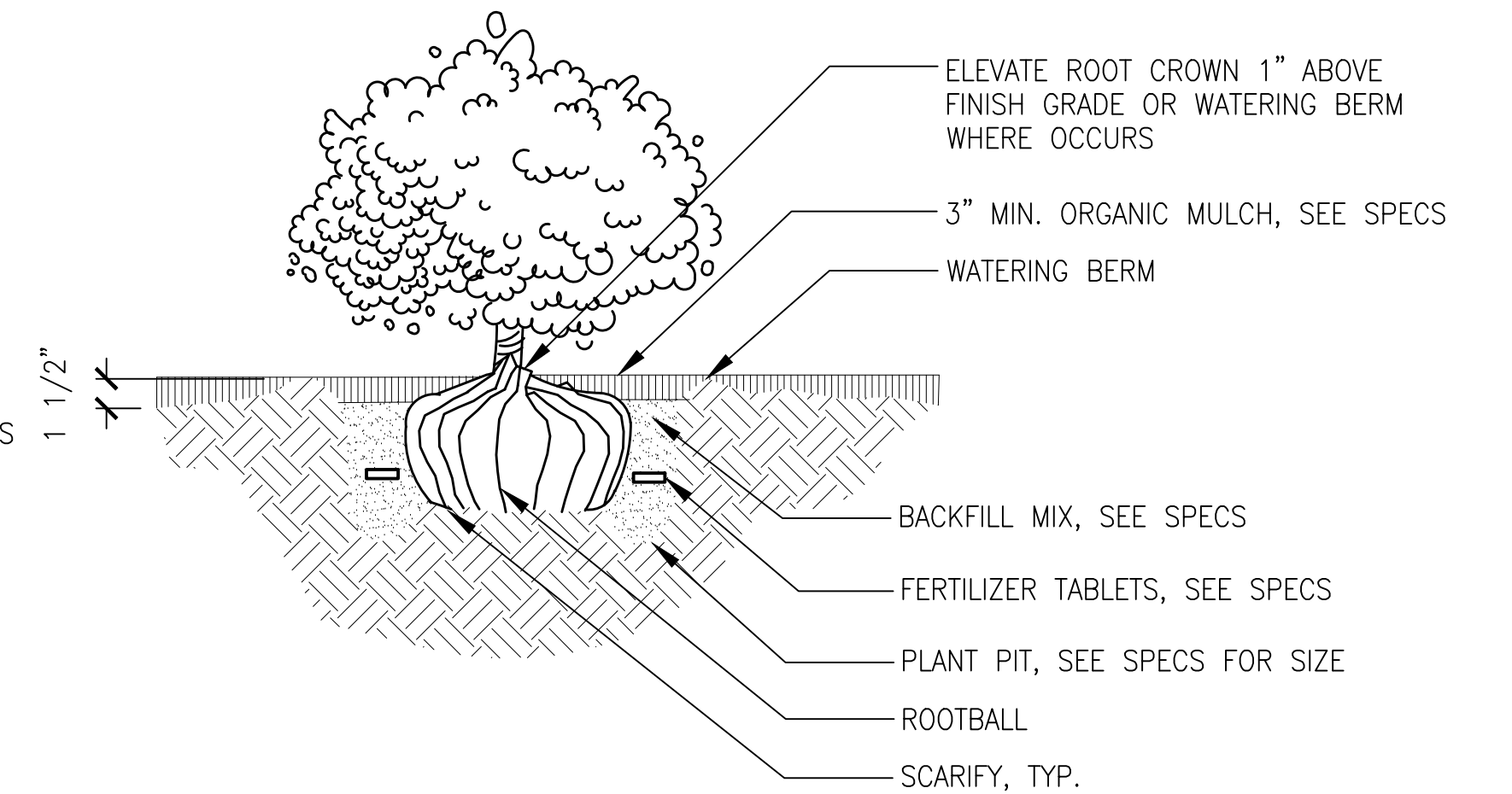
PLAN



SECTION

1 PLANT ANTI-THEFT BARRIER

SCALE: 1" = 1'-0"



2 SHRUB PLANTING

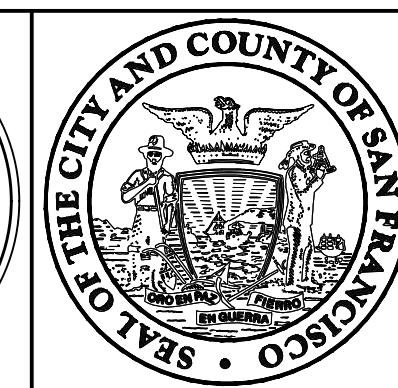
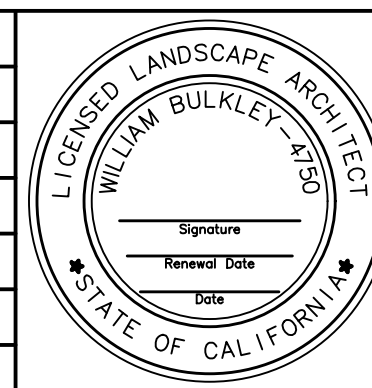
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3	4/30/26	95% BoLA			
2	4/17/26	65% BoLA - 95% PROJECT CONSTRUCTION DOCUMENTS			
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REVISIONS					



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DRAWN	CY
CHECKED	WB
REVIEWED	AE
RECOMMENDED	PROJECT ENGINEER
APPROVED	PROGRAM MANAGER
DATE	DATE_SIGNED

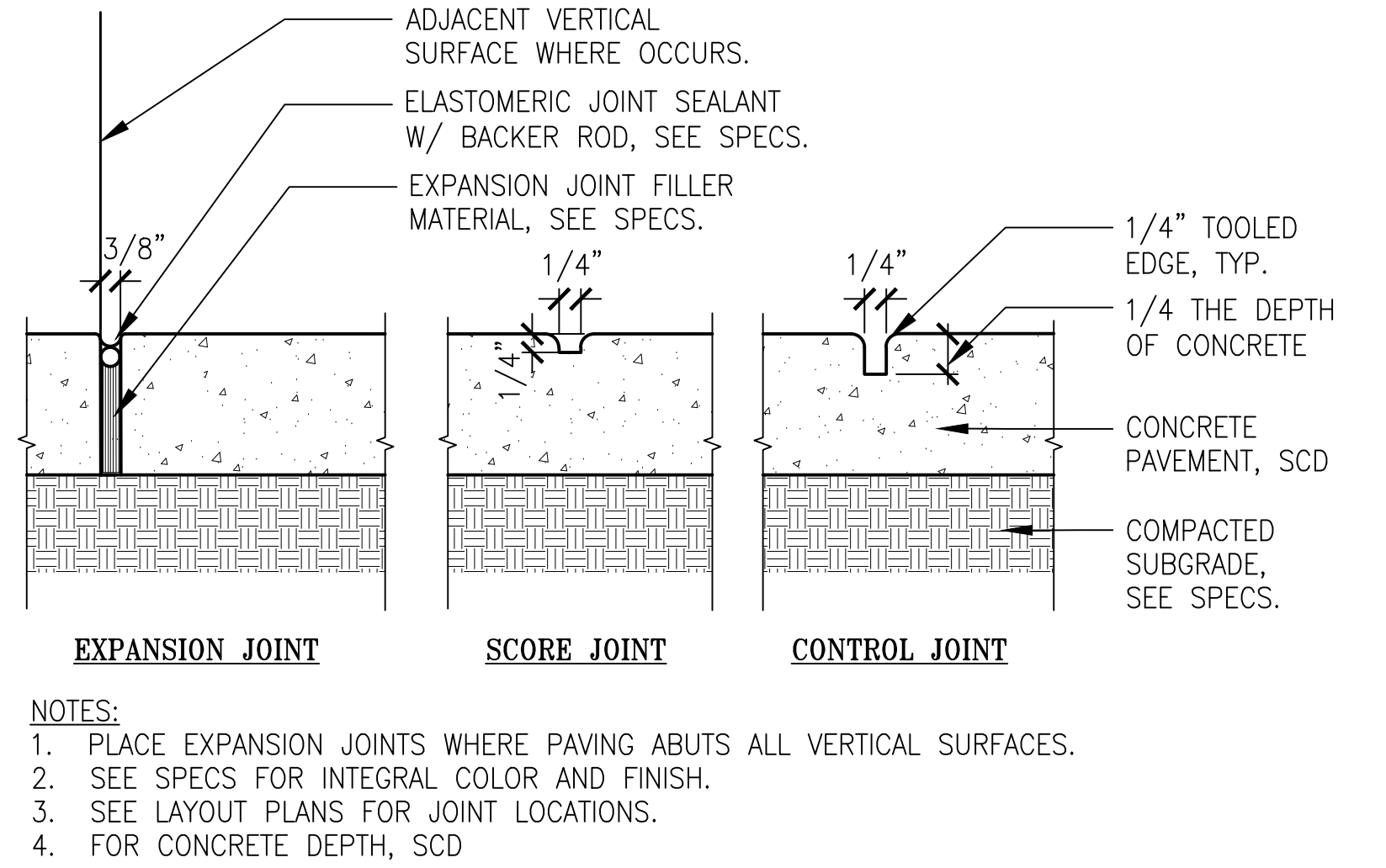
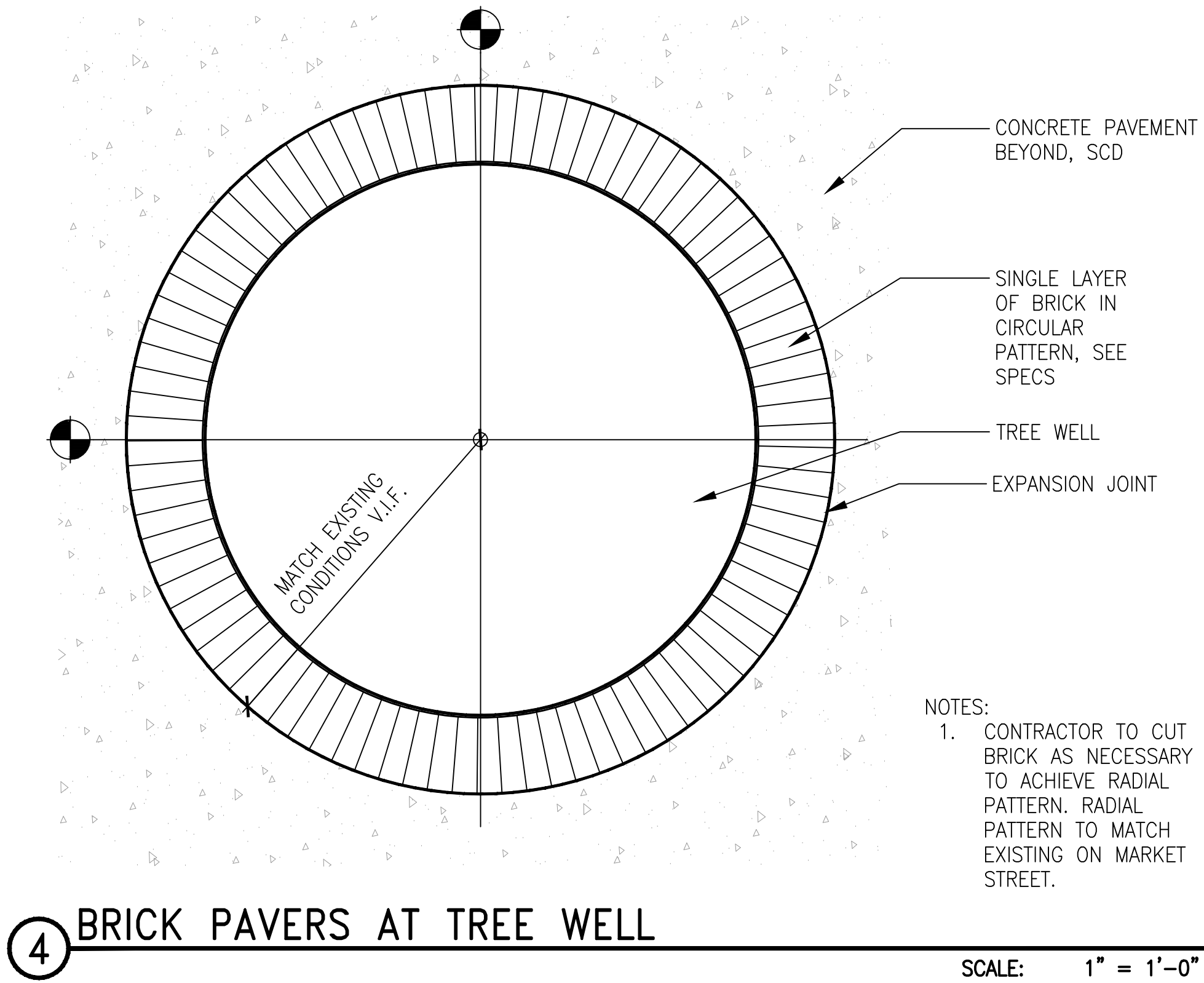


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MUNICIPAL TRANSPORTATION AGENCY



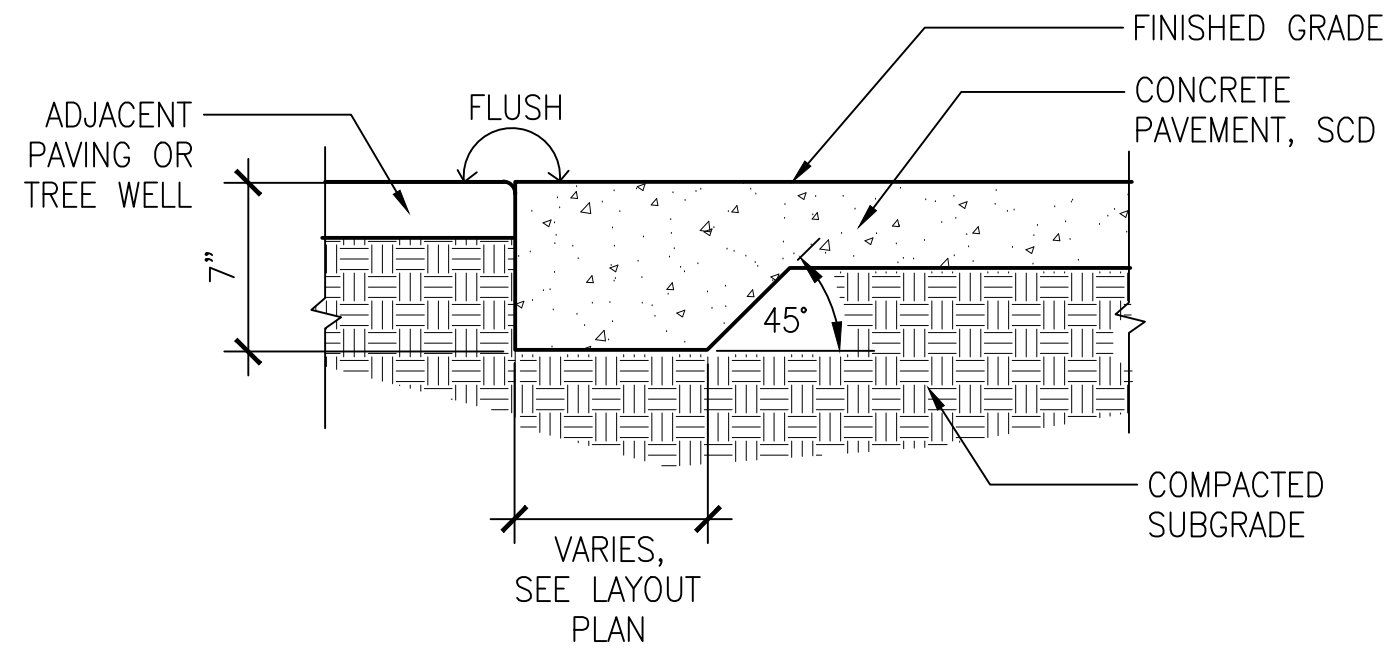
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CHURCH AND MARKET - MUNI FORWARD		DRAWING	CL-
PLANTING DETAILS		L-13	REVISION
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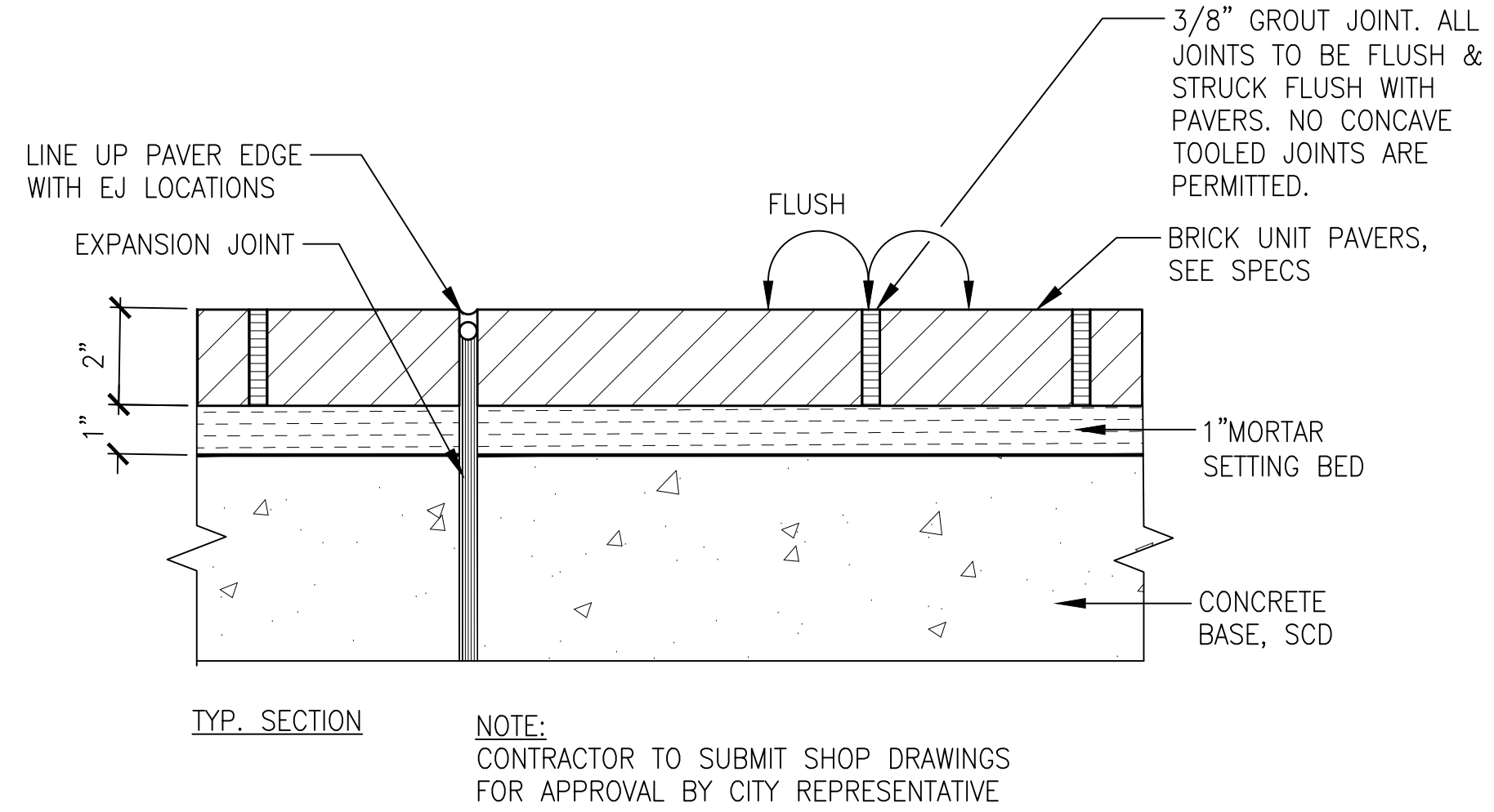
1 CONCRETE JOINTS

SCALE: 3" = 1'-0"



2 THICKENED CONCRETE EDGE

SCALE: 1" = 1'-0"



3 BRICK PAVERS ON CONCRETE BASE

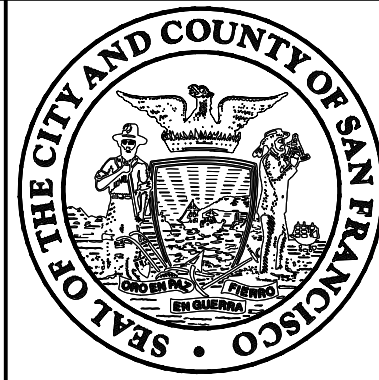
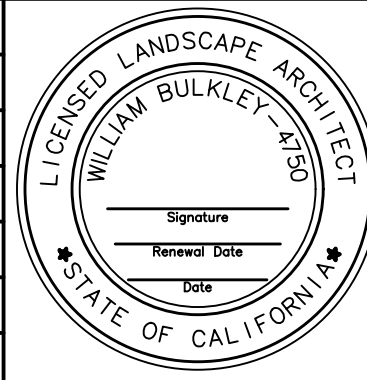
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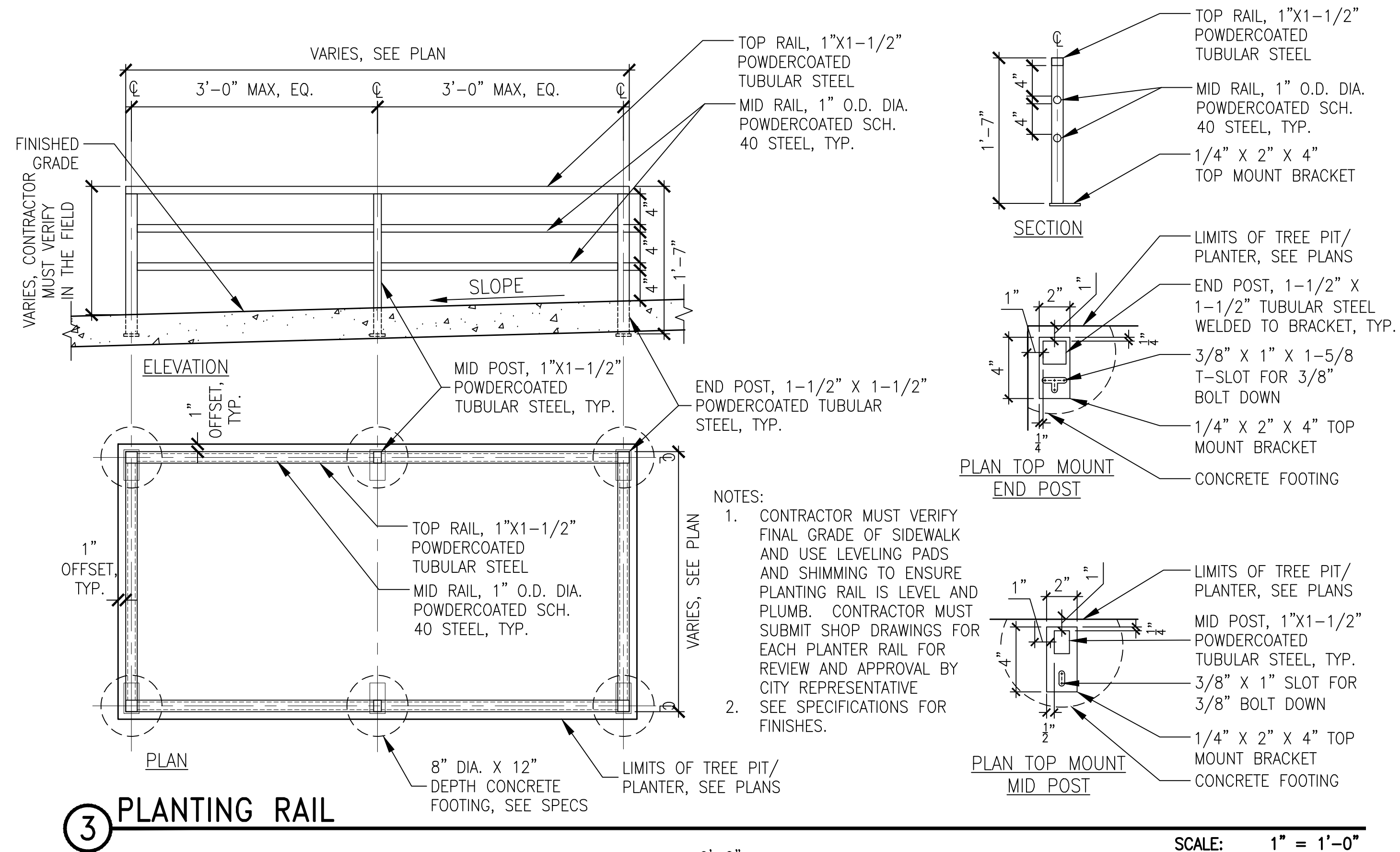
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CHECKED	WB
REVIEWED	AE
RECOMMENDED	PROJECT_ENGINEER
APPROVED	PROGRAM_MANAGER
DATE	DATE_SIGNED



CITY AND COUNTY OF SAN FRANCISCO
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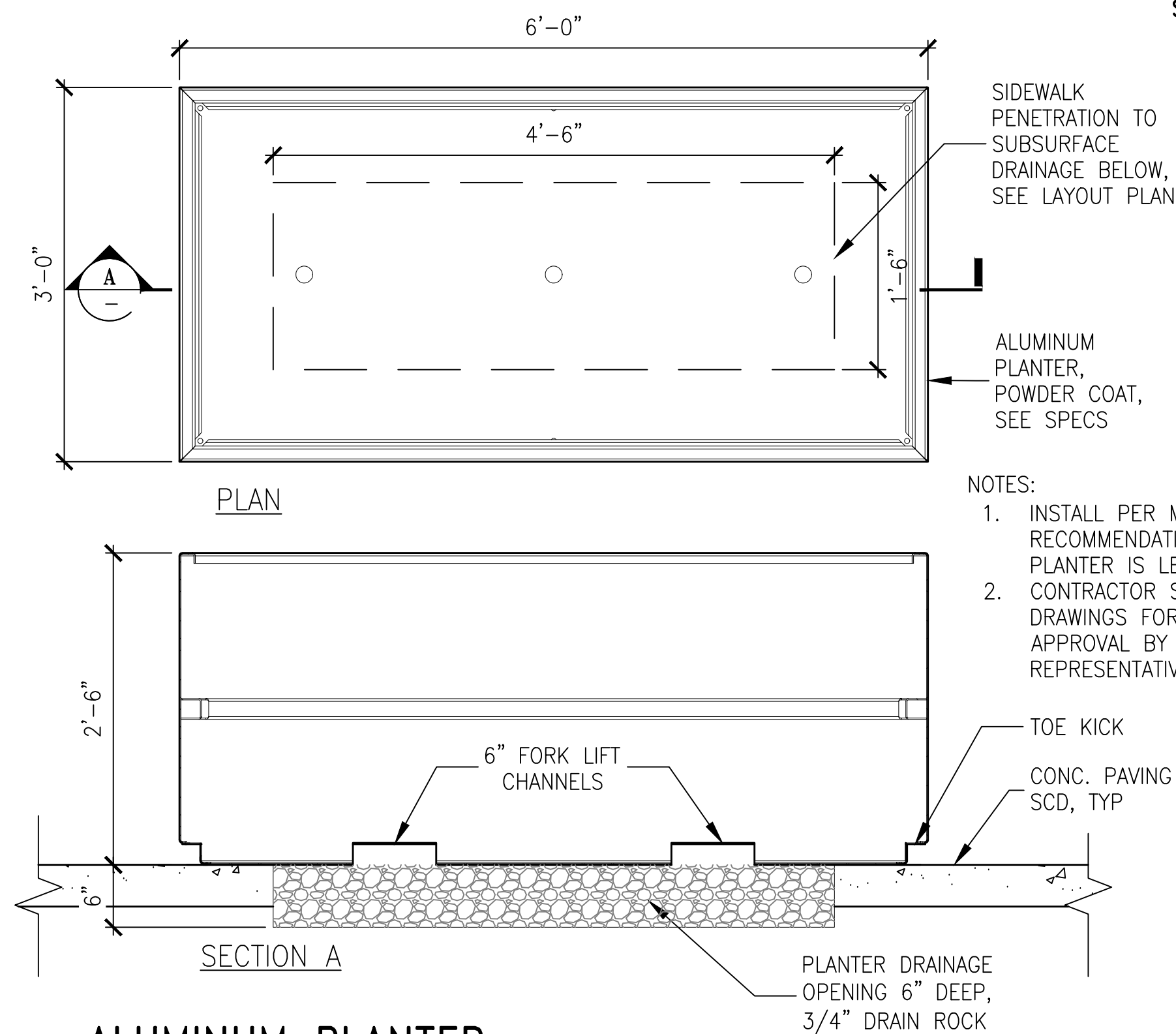


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CHURCH AND MARKET - MUNI FORWARD		DRAWING	CL-
CONSTRUCTION DETAILS		L-14	REVISION
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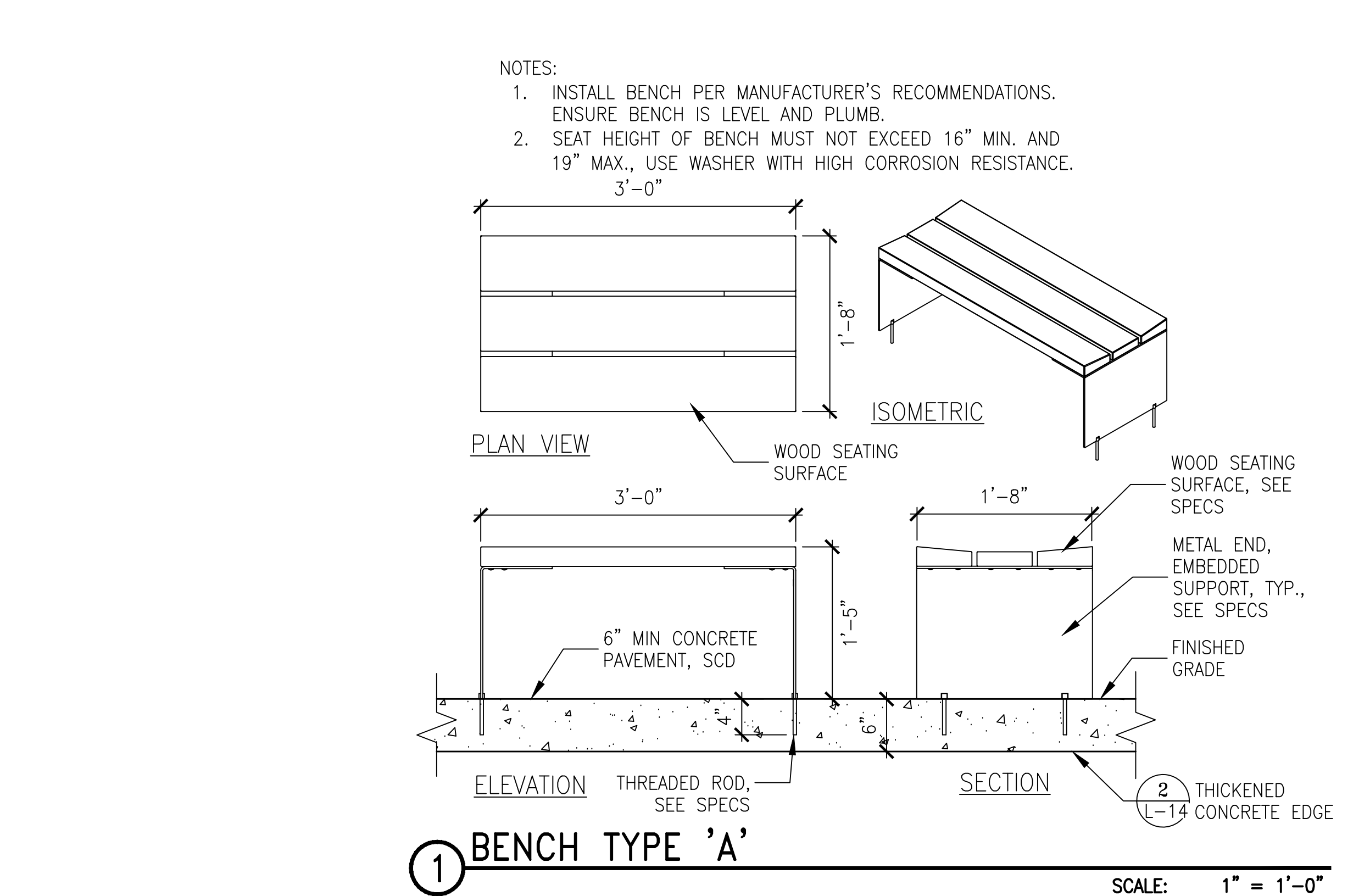
3 PLANTING RAIL

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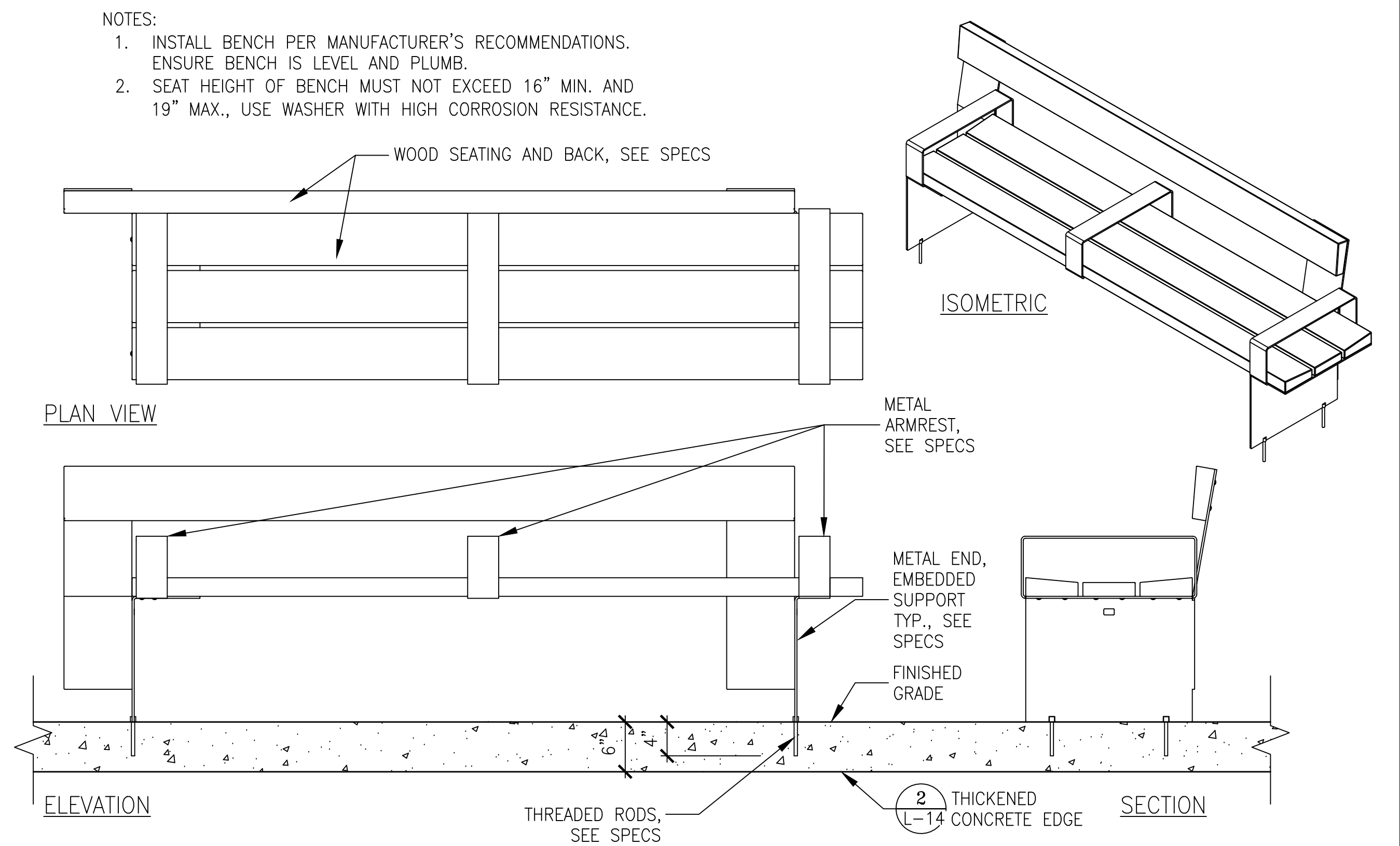
4 ALUMINUM PLANTER

SCALE: 1" = 1'-0"



1 BENCH TYPE 'A'

SCALE: 1" = 1'-0"



2 BENCH TYPE 'B'

SCALE: 1" = 1'-0"

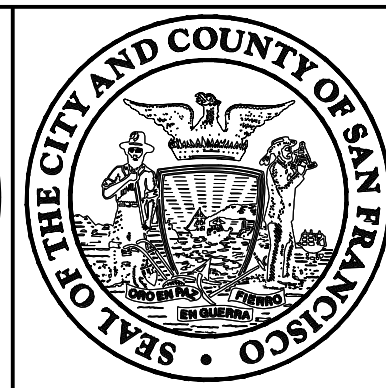
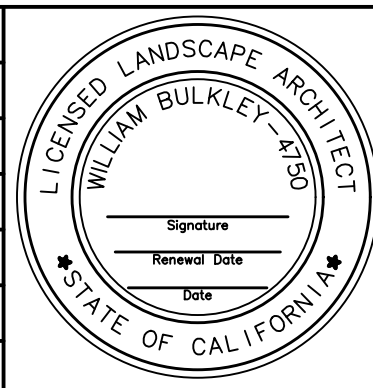
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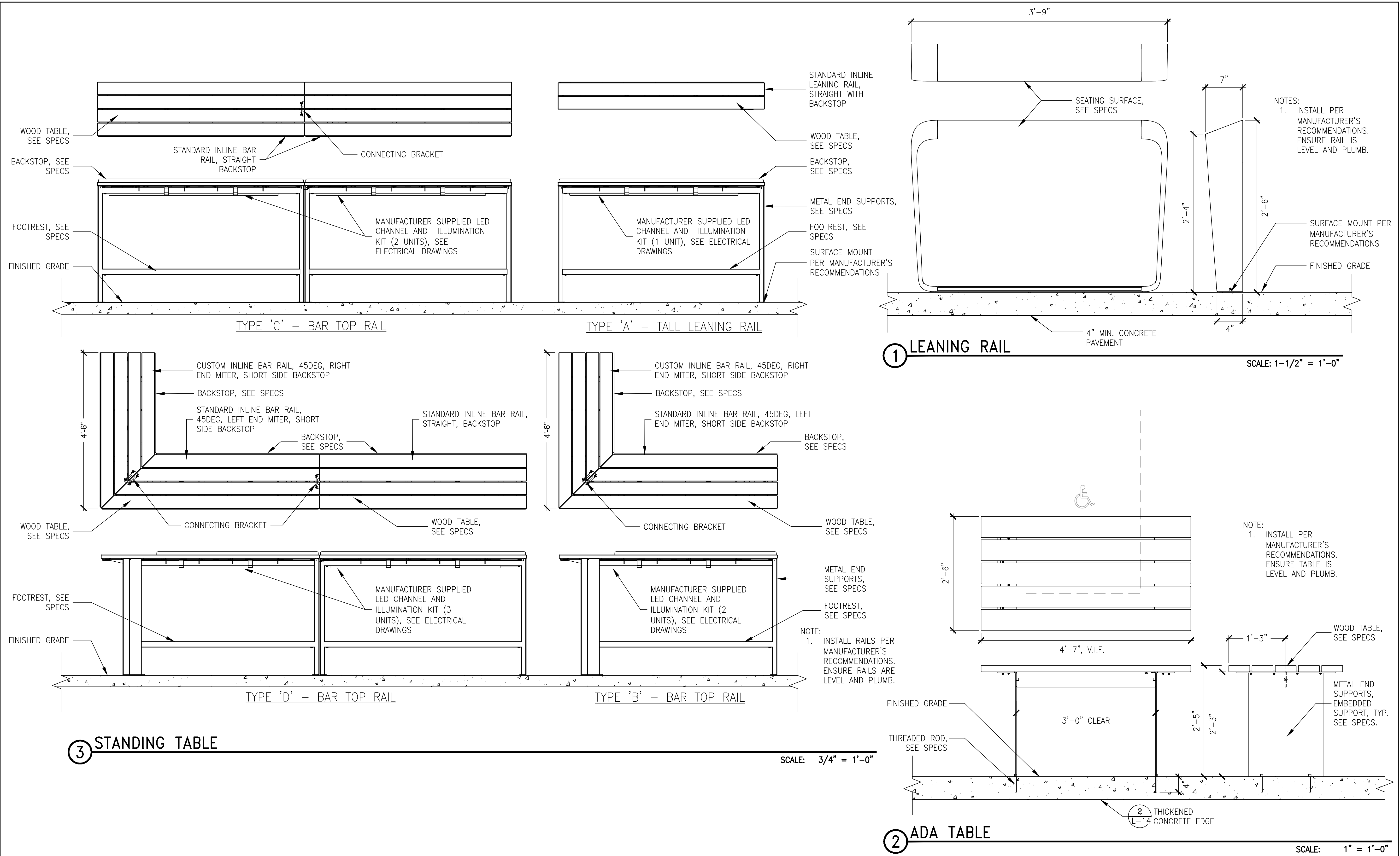


MUNI METRO SYSTEM
CHURCH AND MARKET - MUNI FORWARD

CONSTRUCTION DETAILS

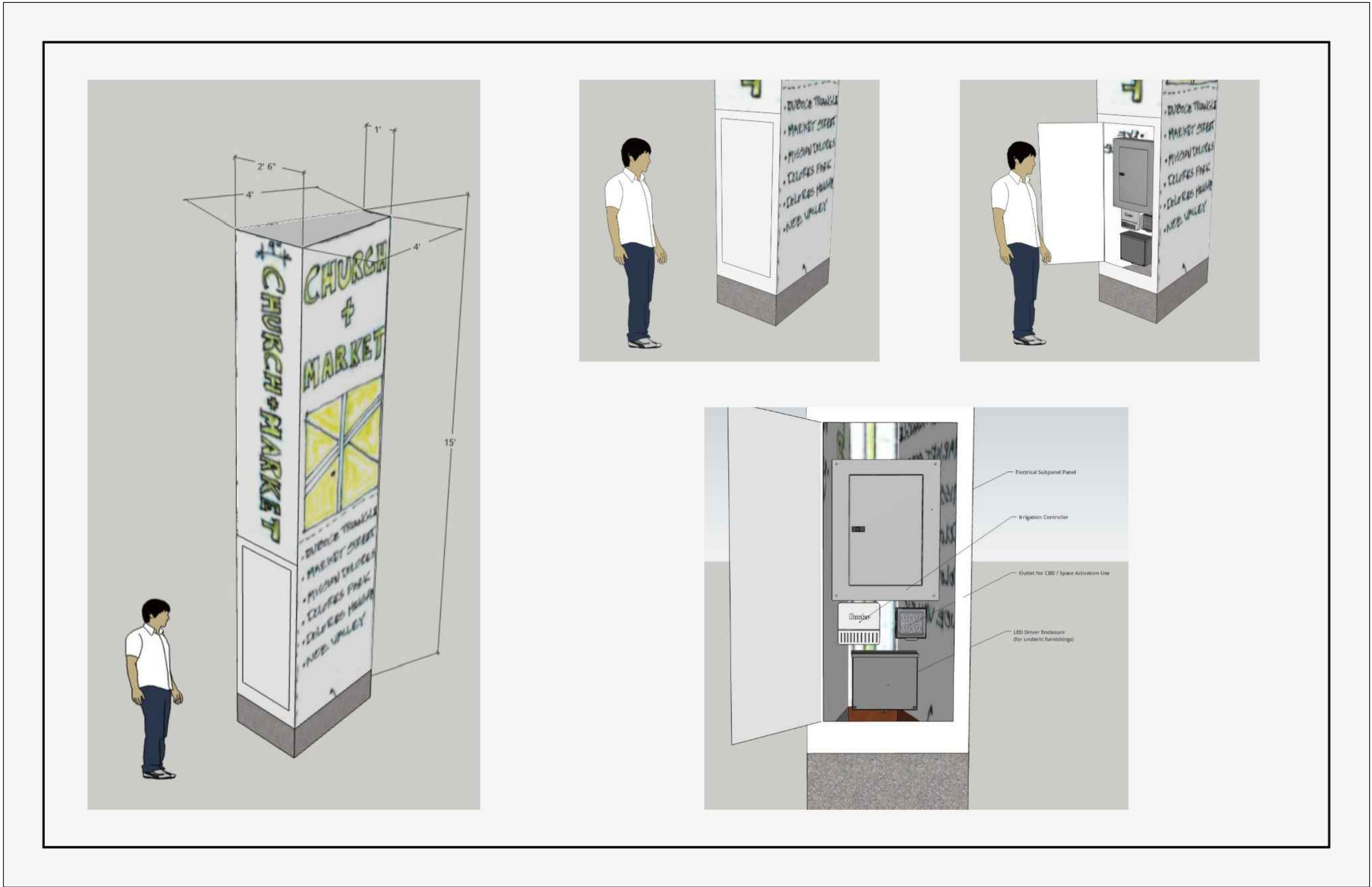
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L-15	REVISION
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1 GATEWAY FEATURE UTILITY PANEL

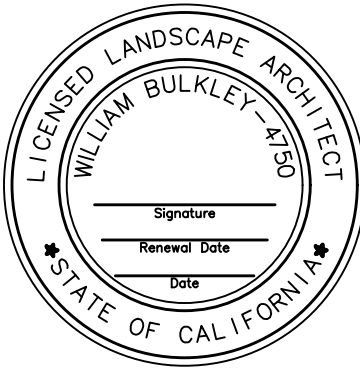
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REVIEWED	AC
RECOMMENDED	PROJECT_ENGINEER
APPROVED	PROGRAM_MANAGER
DATE	DATE_SIGNED



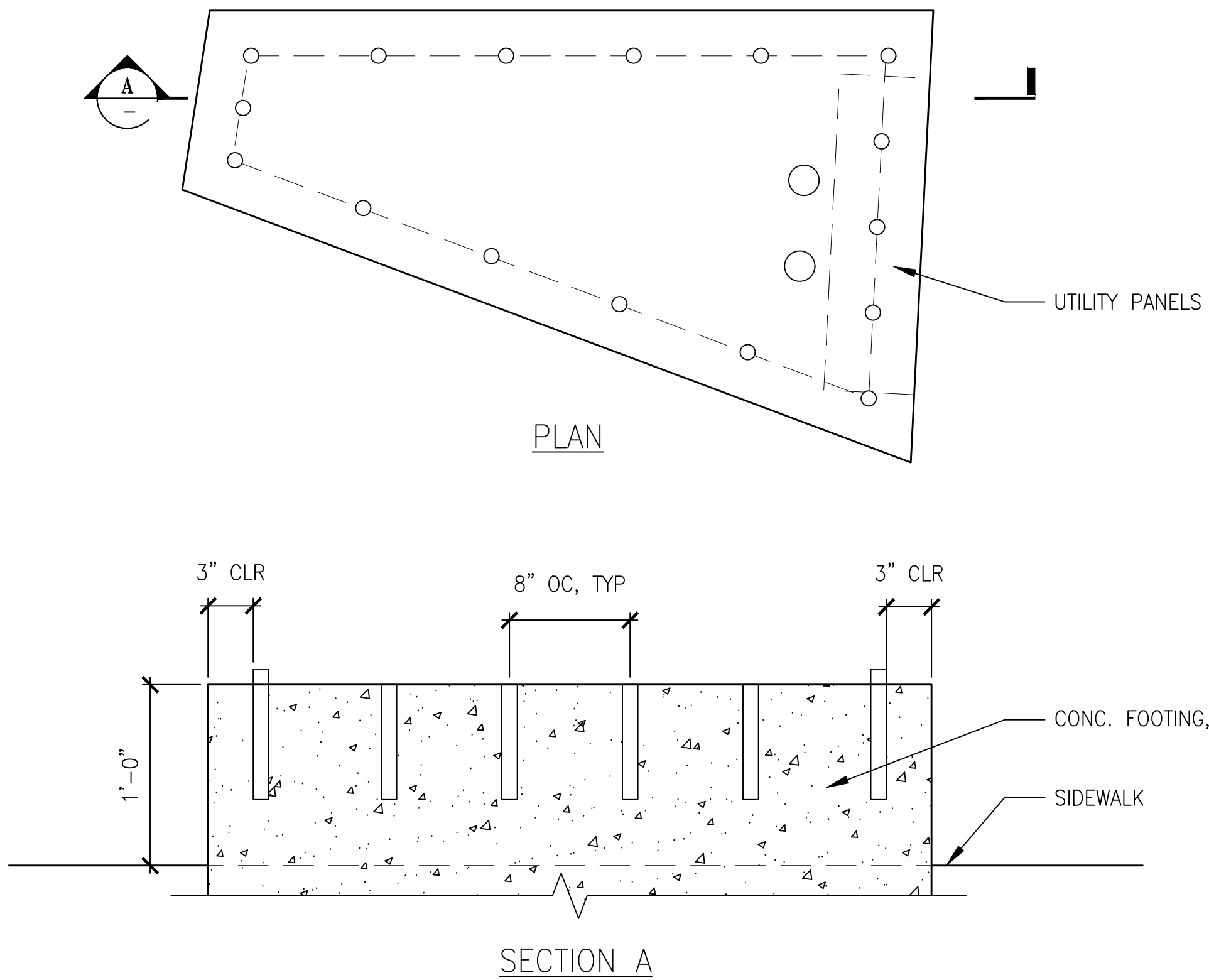
CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY



MUNI METRO SYSTEM
CHURCH AND MARKET - MUNI FORWARD

CONSTRUCTION DETAILS

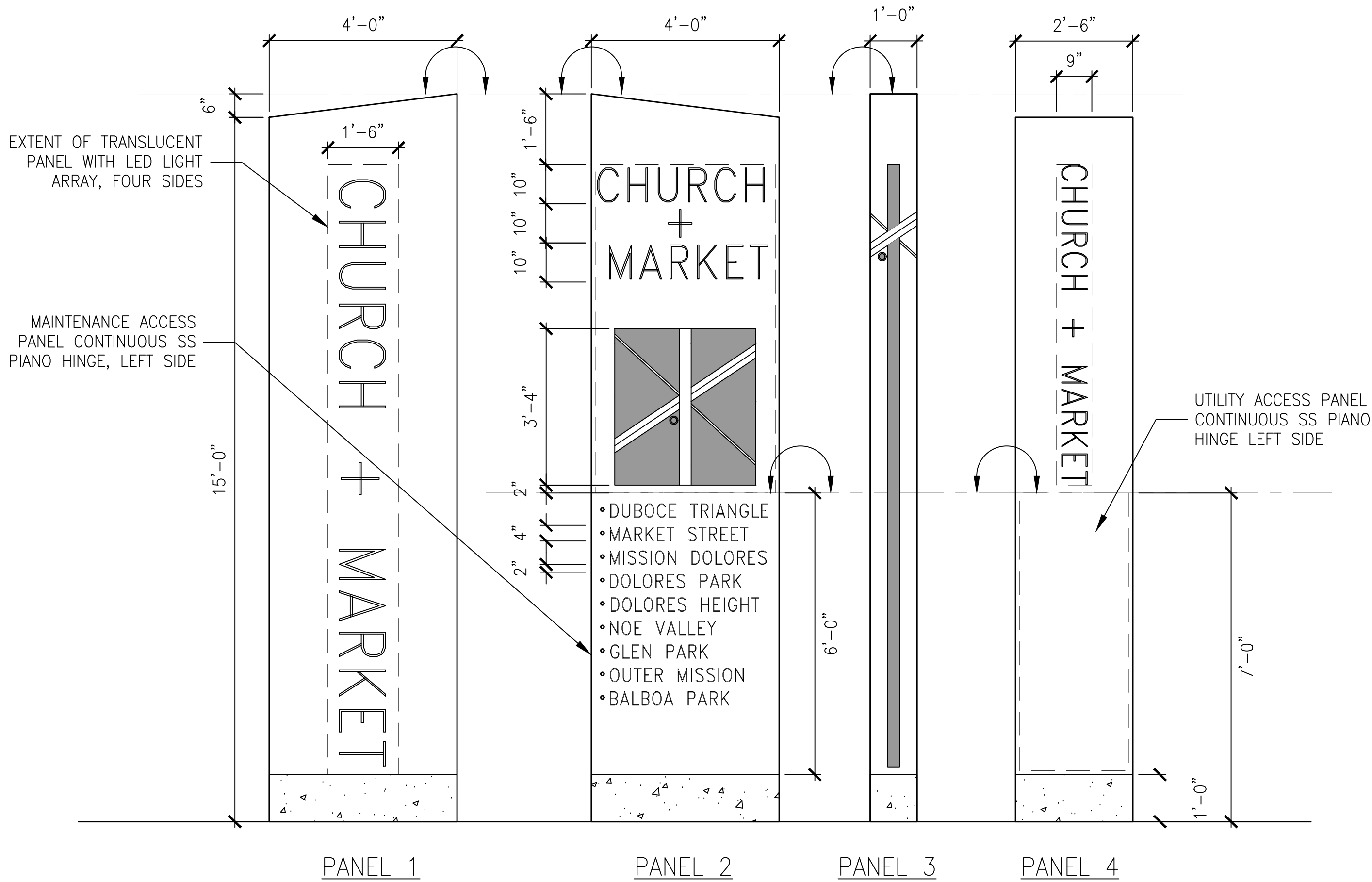
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DRAWING	CL-
L-17	REVISION
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- NOTES:
- 3/4" BOLTPLATE
 - 2" DIA. HOLES FOR ELECTRICAL CONDUIT
 - 1" DIA. HOLES FOR 3/4" HDG ALL-THREAD ANCHORS WITH 8" EMBEDMENT
 - SEE STRUCTURAL DETAILS

3 BOLT PLATE

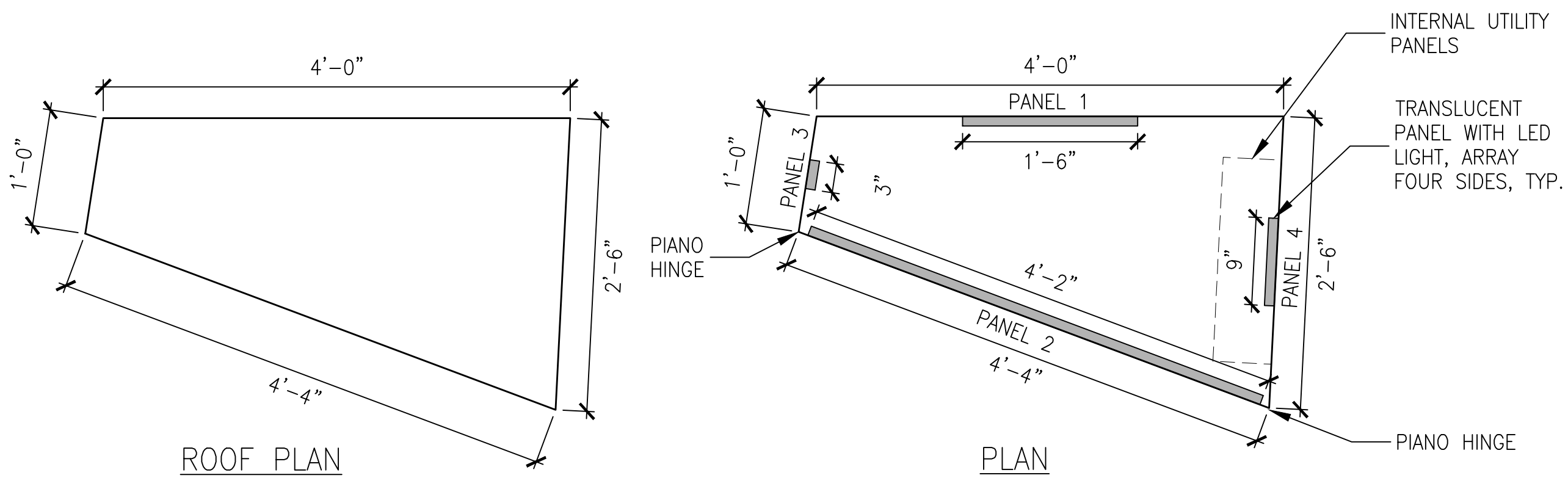
SCALE: 1-1/2" = 1'-0"



- 1/4" POWDERCOATED STEEL FACE WITH STENCIL CUT COPY
- 1/4" STEEL BAR INSERTED THROUGH FACE PANEL AND WELDED ON ENCLOSED SIDE
- CHANNEL WELDED TO INTERNAL RETURNS WITH SLOT FOR SLIDABLE .04 ALUMINUM LED & POWER SUPPLY TRAY (SLIDES UP)
- INTERNAL 3/16" TRANSLUCENT ACRYLIC MOUNTED TO REAR STEEL PANEL VIA WELD STUD
- PRINCIPAL QWK MOD 2 5000K WHITE LEDS
- PRINCIPAL 12V 60W MINI LED POWER SUPPLY
- SLIDABLE 0.40 ALUMINUM LED & POWER SUPPLY TRAY (SLIDES UP)
- ANGLE CLIP WELDED TO CORNERS OF CHANNELS FOR THREADED EYEBOLT PICK POINTS, REMOVE TOP ACRYLIC TO ACCESS

1 GATEWAY FEATURE ELEVATION

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



2 GATEWAY FEATURE PLAN

SCALE: 1" = 1'-0"

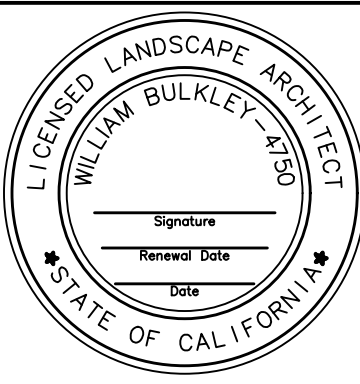
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CITY AND COUNTY OF SAN FRANCISCO
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MUNI METRO SYSTEM
CHURCH AND MARKET - MUNI FORWARD

CONSTRUCTION DETAILS

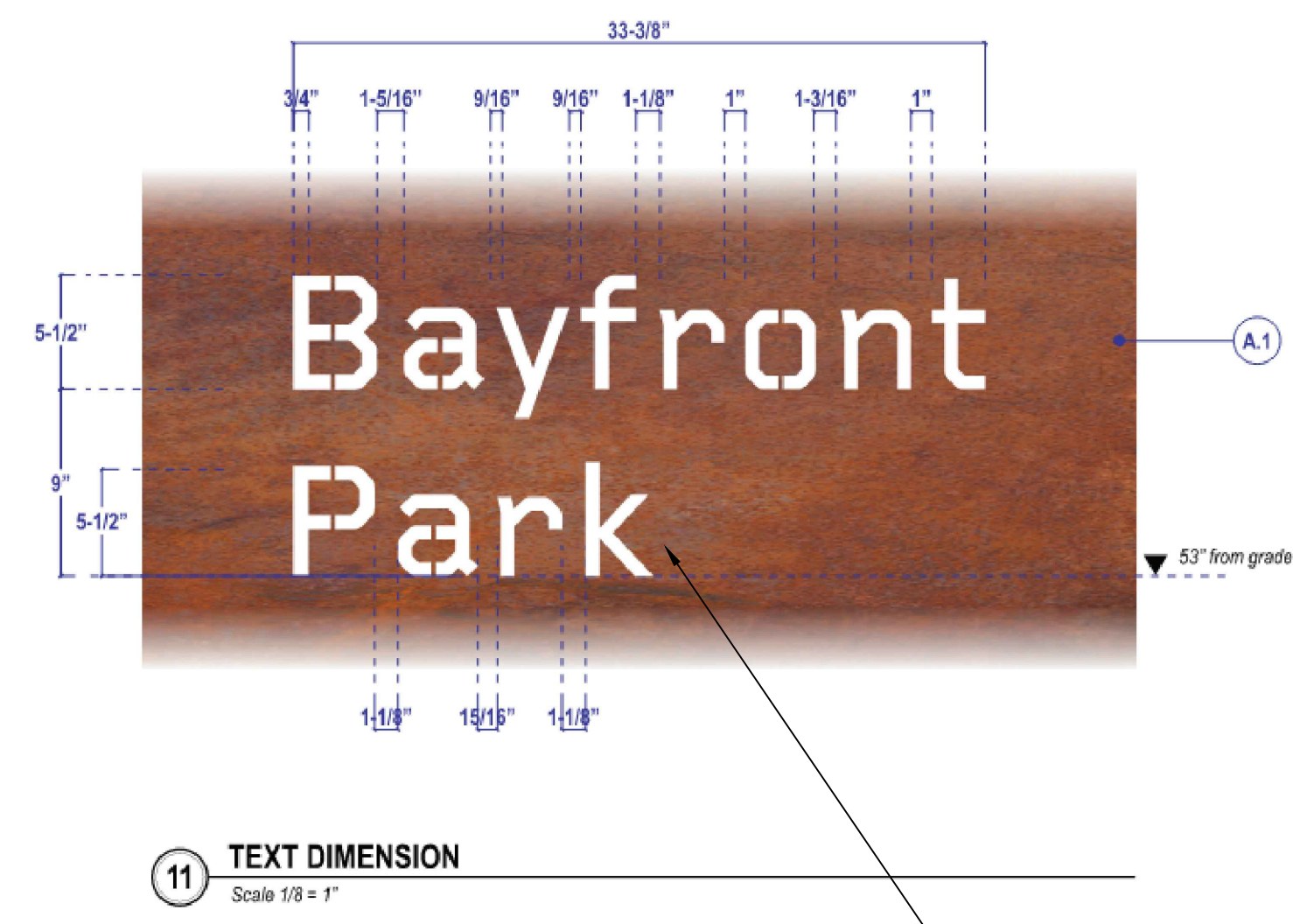
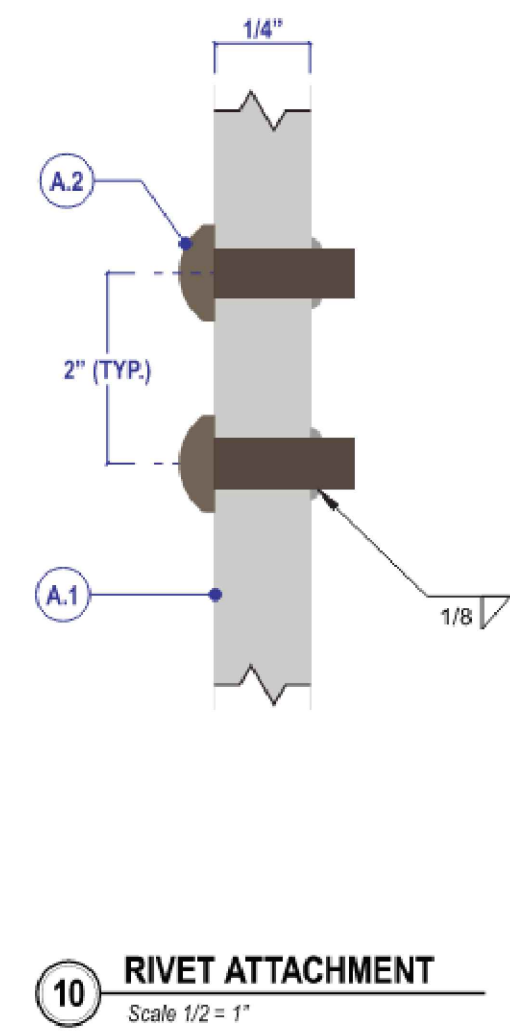
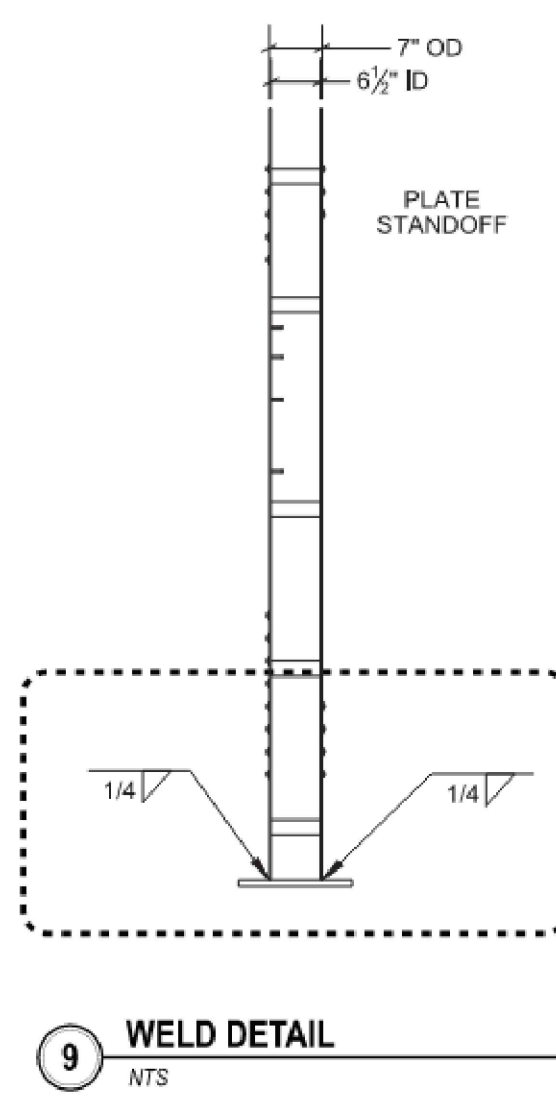
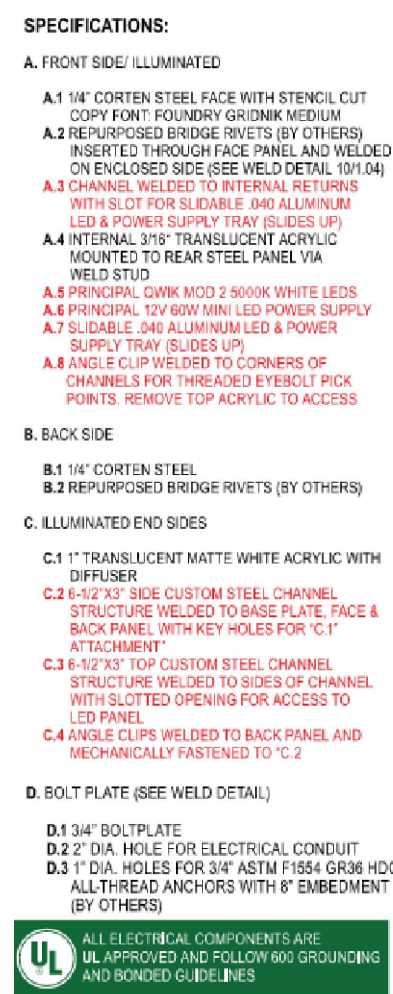
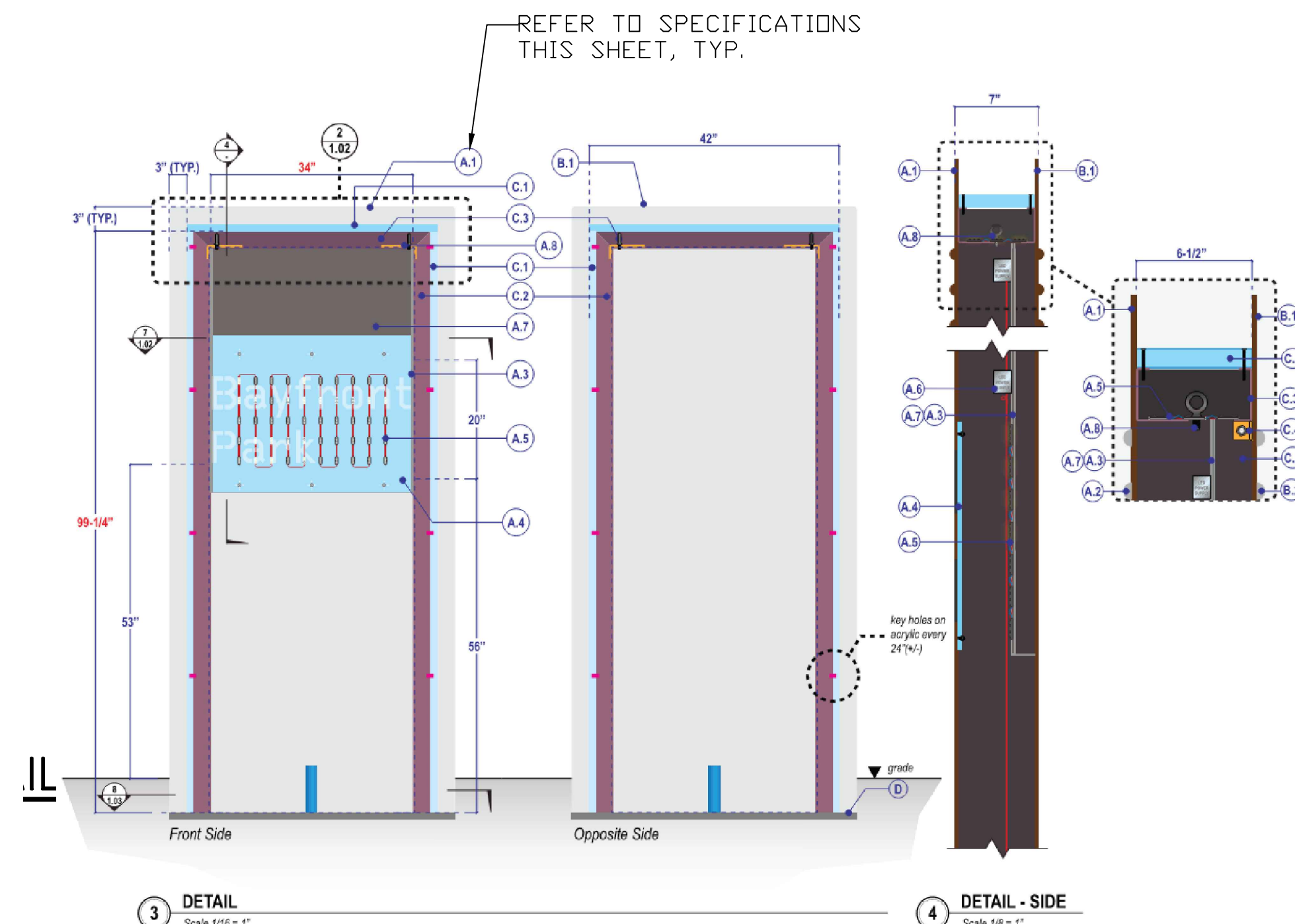
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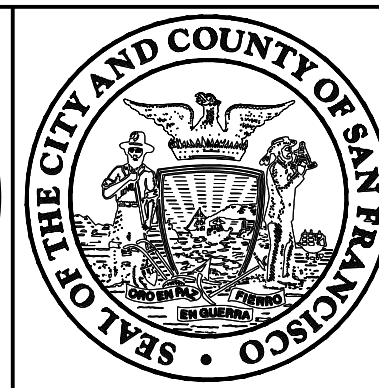
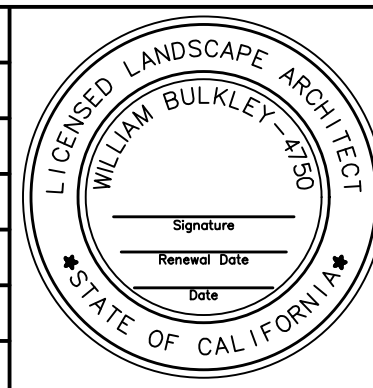
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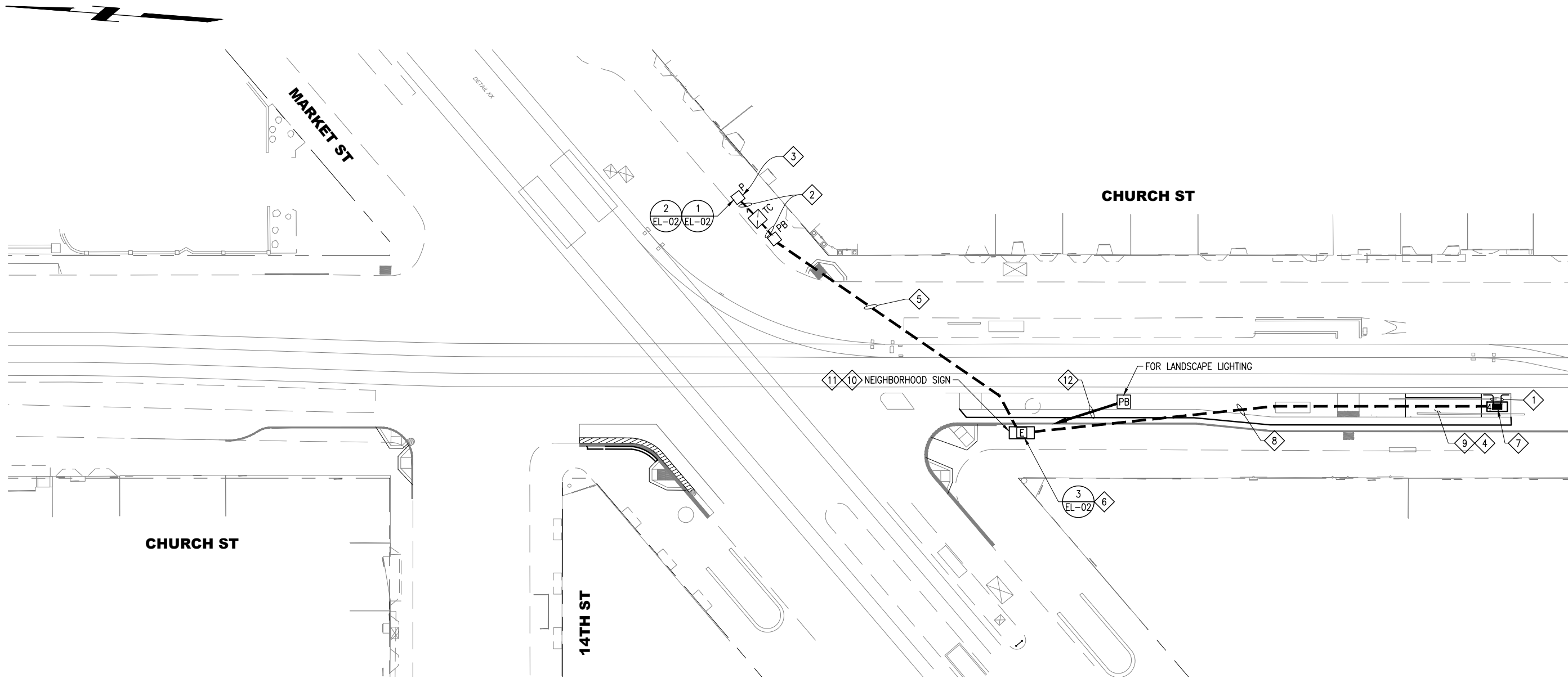
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RECOMMENDED	PROJECT_ENGINEER
APPROVED	PROGRAM_MANAGER
DATE	DATE_SIGNED



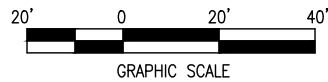
MUNI METRO SYSTEM CHURCH AND MARKET – MUNI FORWARD	CONTRACT 1335	
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GATEWAY FEATURE REFERENCE DRAWINGS	L–19	REVISION
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◆ **SHEET NOTES:**

- F/I 3/4" GRSC-2#12, 1#12 GND FROM LED DRIVER TO LIGHT FIXTURES.
- F/I (N) 4-#6 AWG WIRES INTO EXISTING ELECTRIC SERVICE PEDESTAL VIA EXISTING CONDUITS AND TRAIN SWITCH AND SIGNAL CONTROL CABINET.
- PROVIDE NEW 50 AMPERES CIRCUIT BREAKER IN EXISTING ELECTRIC SERVICE PEDESTAL. SEE EL-02 DETAIL 1 FOR SINGLE LINE DIAGRAM.
- HANDRAIL LIGHTING TO BE PRODUCT OF KLIKUSA LIGHTING-LP40-30K-A-(RAIL THICKNESS) (FIXTURE) LP096WPTRNDIM (REMOTE DRIVER) LPNEMA4ENCLJR (DRIVER ENCLOSURE) OR APPROVED EQUAL.
- PROVIDE NEW 2" GRS CONDUIT AND 4-#6/AWG WIRES FROM (E) PB DIRECTLY TO (N) ELECTRICAL PANEL INSIDE THE NEIGHBORHOOD SIGN AS SHOWN. CONTRACTOR TO USE JACK AND BORE METHOD TO INSTALL THE CONDUIT UNDER THE TRACKWAY. THE CONDUIT SHALL BE INSTALLED 30" BELOW THE FINISHED TRACKWAY SURFACE OR 6" BELOW THE BOTTOM OF THE TRACK SLAB, WHICHEVER IS DEEPER
- F/I 120/240VAC ELECTRIC PANEL INSIDE THE NEIGHBORHOOD SIGN. PANEL SIZE TO BE APPROXIMATELY 20"W x 6"D x 26"H. MOUNTING HEIGHT TO BE 5'-6" ABOVE FINISHED GRADE. SEE EL-02 DETAIL 3 FOR PANEL SCHEDULE.
- F/I NEMA 4 ENCLOSURE FOR LED DRIVER. THE ENCLOSURE SHALL BE INSTALLED IN A BOX UNDER PLATFORM, REFER TO STRUCTURAL DRAWING FOR BOX DETAIL AND EXACT ORIENTATION.
- F/I 3/4"GRSC-2#12, 1#12 GND FOR HANDRAIL LIGHTING LED DRIVER.
- SEE ARCHITECTURAL DRAWING FOR HANDRAIL LED FIXTURE & SPACING DETAILS.
- PROVIDE ELECTRICAL POWER TO NEIGHBORHOOD SIGN LIGHTING AND 120V, 20A DUPLEX GFCI RECEPTACLE. THE RECEPTACLE SHALL BE INSTALLED IN LOCKABLE WEATHER-PROOF ENCLOSURE AND BE ON THE SURFACE OF THE SIGN
- F/I 3/4"GRSC-2#12, 1#12 GND FOR SIGN LIGHTING. TERMINATE ON THE NEW ELECTRICAL PANEL.
F/I 3/4"GRSC-2#12, 1#12 GND FOR GFCI RECEPTACLE. TERMINATE ON THE NEW ELECTRICAL PANEL.
- F/I 3/4"GRSC-2#12, 1#12 GND FOR LANDSCAPE LIGHTING HOME RUN TO THE NEW ELECTRICAL PANEL INSIDE NEIGHBORHOOD SIGN.



NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

NOT FOR CONSTRUCTION

DESIGNED
DRAWN
CHECKED
REVIEWED
RECOMMENDED
APPROVED
DATE



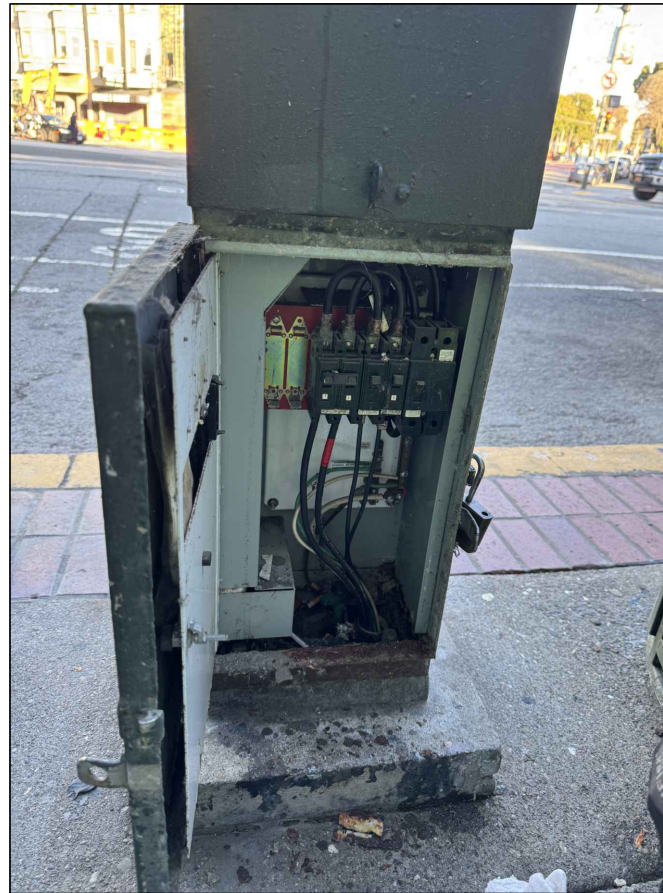
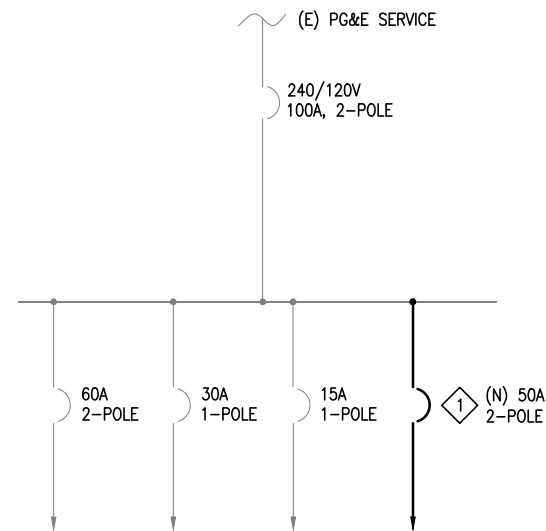
CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY



MUNI METRO SYSTEM
J MUNI FORWARD: CHURCH & MARKET

ELECTRICAL
CHURCH STREET AT MARKET STREET
LAYOUT PLAN

CONTRACT	1335
DRAWING	CL-####
EE-01	REVISION
EE-XX	0



-  **SHEET NOTES:**

 1. F/I ONE (N) 50A, 2-POLE, 240/120V CIRCUIT BREAKER IN EXISTING ELECTRIC SERVICE PEDESTAL TO PROVIDE POWER TO THE NEW PLATFORM ON CHURCH/MARKET STREET ON THE OUTBOUND SIDE.
 2. F/I NEW ELECTRICAL PANEL INSIDE THE NEIGHBORHOOD SIGN, SEE NOTE 6 ON EE-01 AND THE NEIGHBORHOOD SIGN DETAIL FOR THE LOCATION OF THE PANEL AND THE MOUNTING HEIGHT.

[illegible]

021 CHURCH AND WORKER					
NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

DESIGNED
DRAWN
CHECKED
REVIEWED
RECOMMENDED
APPROVED
DATE



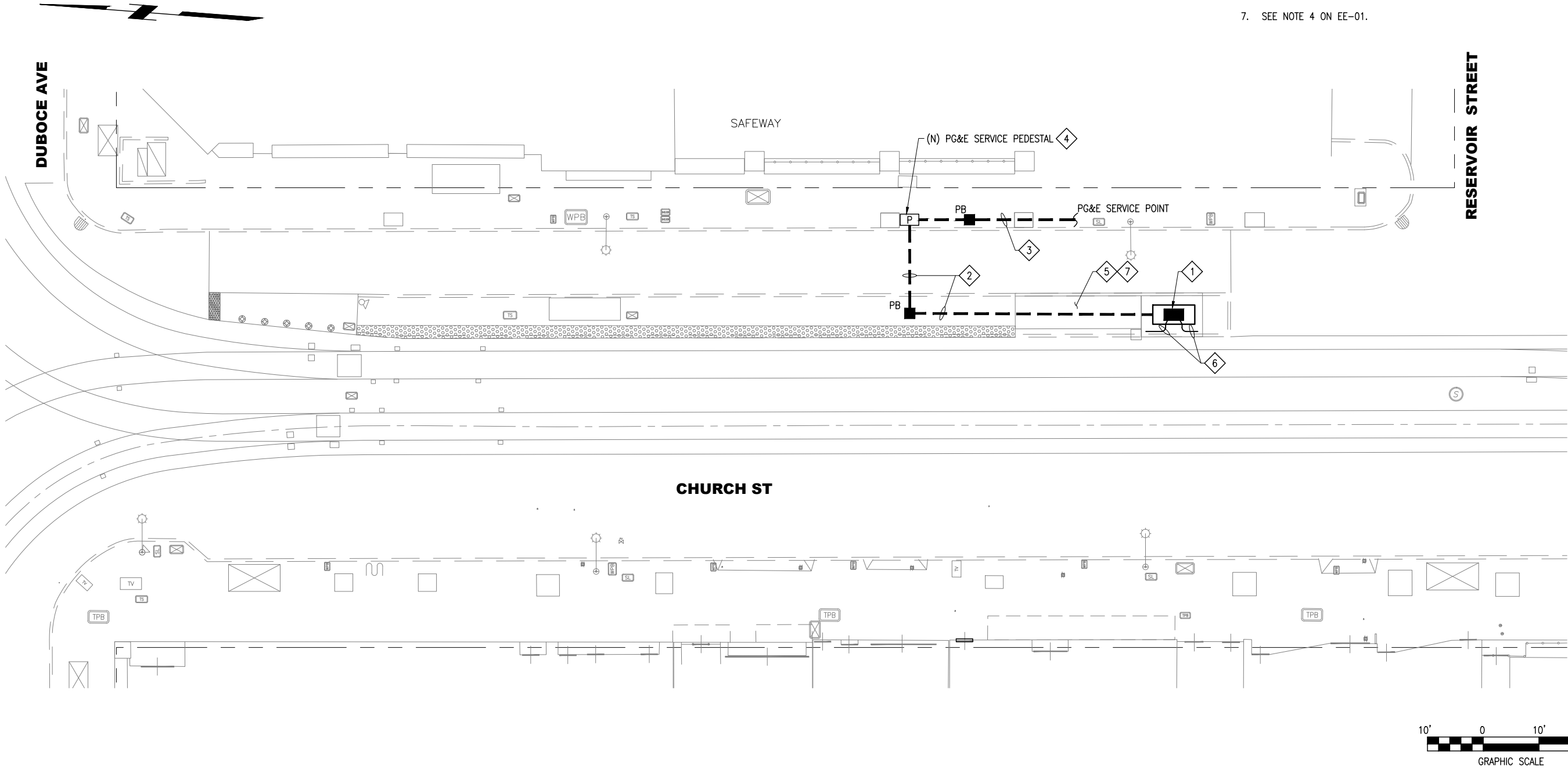
CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY



MUNI METRO SYSTEM J MUNI FORWARD: CHURCH & MARKET	CONTRACT	
	1335	
	DRAWING	
	CL-#####	
ELECTRICAL SINGLE LINE DIAGRAM	EE-02	REVISION
	EE-XX	0

SHEET NOTES:

1. F/I NEMA 4 ENCLOSURE FOR LED DRIVER. THE ENCLOSURE SHALL BE INSTALLED IN A BOX UNDER THE PLATFORM. REFER TO STRUCTURAL DRAWING FOR BOX DETAIL AND EXACT ORIENTATION.
2. F/I 3/4"GRSC-2#12, 1#12 GND FOR HANDRAIL LIGHTING.
3. ASSUME PG&E SERVICE POINT IS APPROXIMATE 200 FEET AWAY.
4. (N) PG&E SERVICE FOR HANDRAIL LIGHTING. F/I PG&E 240/120V, 100A, 3W, 1-PHASE METERING PANEL AND LOAD CENTER.
5. SEE NOTE 9 ON EE-01.
6. F/I 3/4" GRSC-2#12, 1#12 GND FROM LED DRIVER TO LIGHT FIXTURES.
7. SEE NOTE 4 ON EE-01.



U:\T021 Church and Market - Muni Forward\07. AutoCAD Drawings\09. Electrical\Sheet Files\ T021EE03.dwg H:\Thal Thu Apr 02 2026 - 3:59 pm

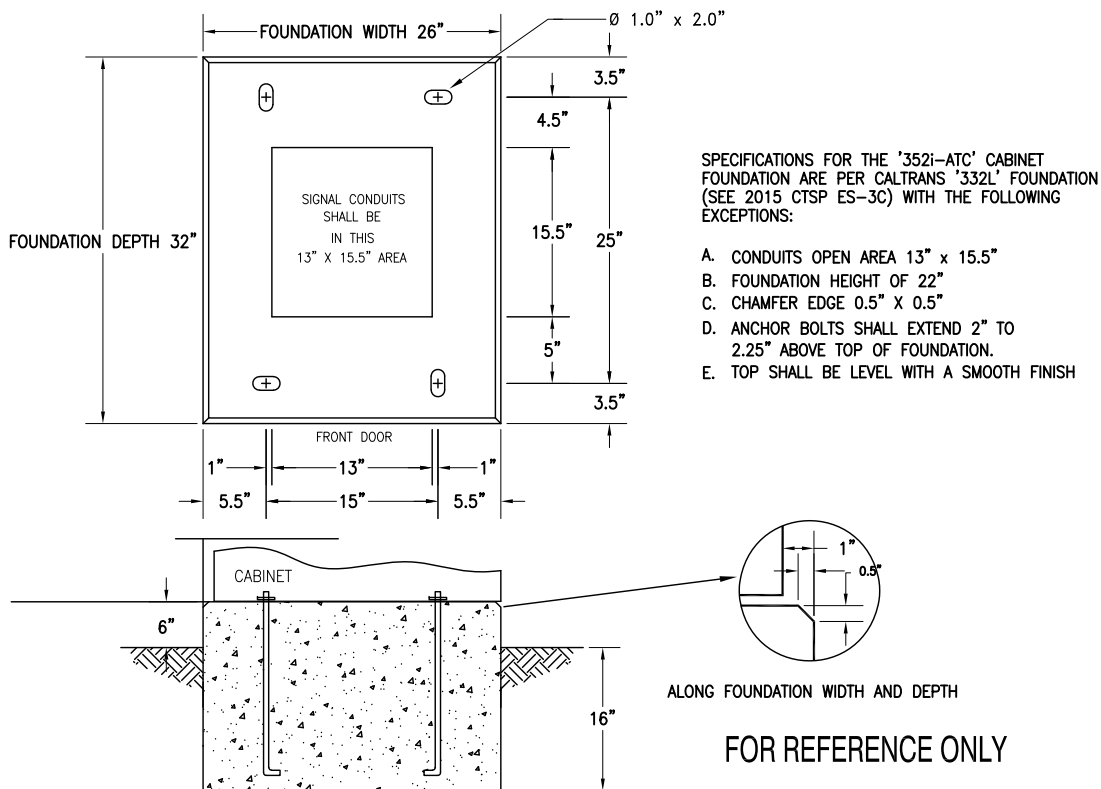
										NOT FOR CONSTRUCTION	DESIGNED	 CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY 	MUNI METRO SYSTEM		CONTRACT	1335
											DRAWN		J MUNI FORWARD: CHURCH & MARKET		DRAWING	CL-####
											CHECKED		ELECTRICAL		EE-03	REVISION
											REVIEWED		CHURCH STREET AT RESERVOIR STREET LAYOUT PLAN		EE-XX	0
										RECOMMENDED						
										APPROVED						
										DATE						

BORDER D SIZE - REVISED 02/01/23

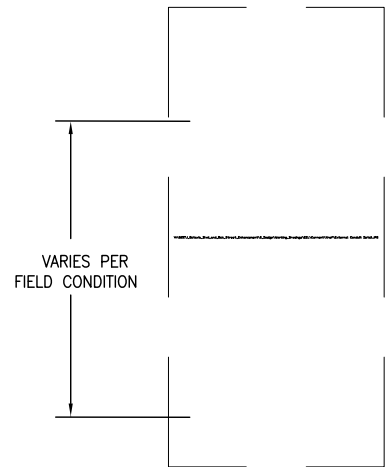
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U:\T0213 M & J Lines - Muni Forward\07. AutoCAD Drawings\14. Traffic Signal\Master Files\ E-0.2 - TRAFFIC SIGNAL ABBREVIATIONS.dwg ryan Fri Nov 07,2025 - 1:29 pm

A B B R E V I A T I O N S																	
APS, APS-2W APS-3W ATC A.T.&T. AWG BP BSCW C CAB CCSF CCTV CKT CB CO CTSP, CTSS DLC DLW DTIS DWG DWY (E), EX EMS EQP EXT FA FC F/I FRH (F), FUT HDPE HORIZ HV HZ G GND GRS GRSC IC I/P JB KVA KW			LA LED LGT LRV LUM LVR M MA MAS MAC, MAC-SF METS mm (N) NTC NTS OH PAC PG&E, PGE PED PED(S) XING PPB PPBP PV PVC R R/C RH RLC (R) R/R RRFB R/S RSS ROW, R/W SCGW SL SP SPDPWSF SSDPWSF SM ST SW T TC TS			TSP TP UNK U.O.N., UON V VA VDS VEH VERT VMS W WM WP WPR Y TV-X SV-X TP-X SP-X EB WB NB SB 1-A (X) 12C, 12/C XX-X-100 1S-IN 1S-LED 1S-COUNT 1S12"FR 1S12"FY 1S12"GX 1S 16"x16", 1S 24"x24" 2S8"X 2S12"X 2S12"LB 3S8" 3S8"FY L3S8" 3S12" 3S12"LA 3S12"RA 3S12"GLA, 3S12"GRA			3S12"GVA 3S12" R/FR 3S12"FY L3S12" PV3S12" PV3S12"RA 4S8"X 4S8"GRA 4S12"GLA L4S12"GLA 4S12"GRA 4S12"GLA 4S12"GRA,GLA PV4S12"GLA 5S12"YGRA 5S12"YGLA PV5S12"YGLA PV5S12"GLA,GRA (#) [#]			3 SECTION 12"(304.8 mm), RED, YELLOW, GREEN VERTICAL ARROW 3 SECTION 12"(304.8 mm), RED, MIDDLE SECTION BLANK, FLASHING RED (TUNNEL VISOR FOR TOP AND BOTTOM SECTIONS ONLY) 3 SECTION 12"(304.8 mm) RED, YELLOW, FLASHING YELLOW 3 SECTION 12" (304.8 mm) RED, YELLOW, GREEN LOUVER ON SIGNAL FACE. PROGRAMMABLE VISIBILITY, 3 SECTION 12" (304.8 mm), RED, YELLOW, GREEN PROGRAMMABLE VISIBILITY, 3 SECTION 12" (304.8 mm), RED RIGHT ARROW, YELLOW RIGHT ARROW, GREEN RIGHT ARROW 4 SECTION 8" (203.2 mm), RED, YELLOW, GREEN, AND GREEN "X" FOR MUNI 4 SECTION 8"(203.2 mm), RED, YELLOW, GREEN, AND 12" (304.8 mm) GREEN RIGHT ARROW 4 SECTION 12" (304.8 mm) RED, YELLOW, GREEN, AND GREEN LEFT ARROW 4 SECTION 12" (304.8 mm), RED, YELLOW, GREEN, AND GREEN LEFT ARROW. LOUVER ON GREEN BALL ONLY 4 SECTION 12" (304.8 mm), RED, YELLOW, GREEN, AND GREEN RIGHT ARROW 4 SECTION 12" (304.8 mm), RED, YELLOW, GREEN, AND GREEN LEFT ARROW 4 SECTION 12"(304.8 mm), RED, YELLOW, GREEN RIGHT ARROW AND GREEN LEFT ARROW PROGRAMMABLE VISIBILITY, 4 SECTION 12" (304.8 mm), RED, YELLOW, GREEN, AND GREEN LEFT ARROW 5 SECTION 12" (304.8 mm), RED, YELLOW, GREEN, YELLOW RIGHT ARROW AND GREEN RIGHT ARROW 5 SECTION 12" (304.8 mm), RED, YELLOW, GREEN, YELLOW LEFT ARROW AND GREEN LEFT ARROW PROGRAMMABLE VISIBILITY, 5 SECTION 12" (304.8 mm), RED, YELLOW, GREEN, YELLOW LEFT ARROW AND GREEN LEFT ARROW PROGRAMMABLE VISIBILITY, 5 SECTION 12" (304.8 mm), RED, YELLOW, GREEN, GREEN LEFT ARROW AND GREEN RIGHT ARROW INDICATES EXISTING WIRE TO REMAIN INDICATED COMBINATION OF NEW AND EXISTING WIRE					
NO. DATE DESCRIPTION REVISED CHECKED APPROVED REVISIONS			NOT FOR CONSTRUCTION			DESIGNED DRAWN CHECKED REVIEWED RECOMMENDED APPROVED DATE			SEAL OF THE CITY AND COUNTY OF SAN FRANCISCO CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY SFMTA			MUNI METRO SYSTEM J CHURCH MUNI FORWARD PROJECT ABBREVIATIONS			CONTRACT TO211 DRAWING CL-NNNNN AA-NNN ET-0.2 REVISION #X		



"TYPE 352i-ATC" CABINET FOUNDATION DETAIL

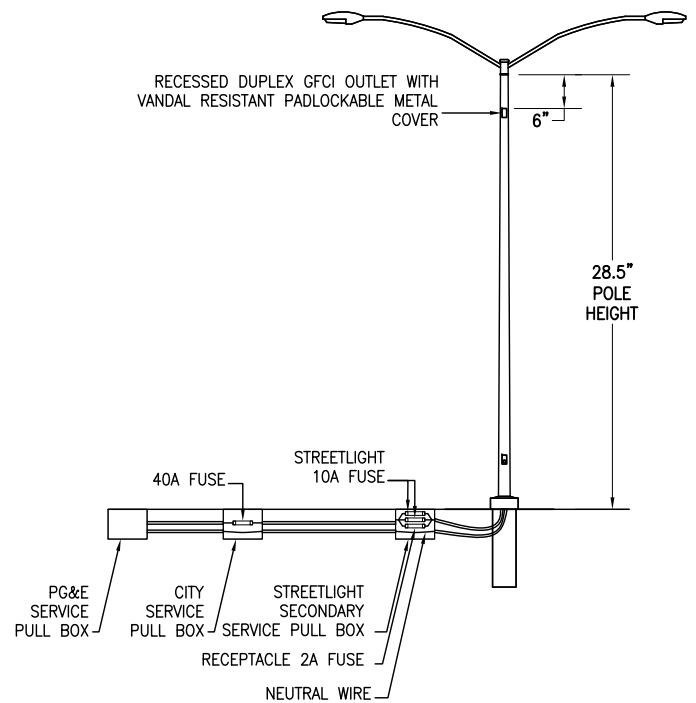


EXTERNAL CONDUIT RISER ON STEEL POLE DETAIL 3

NTS E-0.4

LIGHT FIXTURE SCHEDULE					
SYMBOL	TAG	DESCRIPTION	MANUFACTURER	LAMPS	VOLT
		LUMINAIRE: LUMEC RFM LED FIXTURE, DIE CAST A360 0.1" THICK ALUMINUM ALLOY HOUSING, TENON MOUNTED BRACKETS, RoHS COMPLIANT LED LIGHT ENGINE, 16LED 54W LAMP WITH BACKLIGHT CONTROL, 3000°K, TYPE III, FULL CUTOFF OPTICS, 90% POWER FACTOR DIMMABLE DRIVER, UNIVERSAL VOLTAGE, PHOTOCCELL, BIRD GUARD, HOUSE SHIELD, AND PROVISION FOR FUTURE WIRELESS CONTROL. COLOR TO MATCH POLE. POLE: SEE POLE AND EQUIPMENT SCHEDULE ON PLANS FOR POLE TYPE.	FIXTURE: LUMEC ROADFOCUS CAT#: RFS-54W16LED3K-G2-R2M-UNV-DMG-[API-226]-API2011-RCD7-HS-GY3 OR APPROVED EQUAL POLE: PER SPEC	54W 16LED 3000°K	MULTI TAP VOLT 120-277V
		LUMINAIRE: LUMEC RFM LED FIXTURE, DIE CAST A360 0.1" THICK ALUMINUM ALLOY HOUSING, TENON MOUNTED BRACKETS, RoHS COMPLIANT LED LIGHT ENGINE, 32LED 72W LAMP WITH BACKLIGHT CONTROL, 3000°K, TYPE III, FULL CUTOFF OPTICS, 90% POWER FACTOR DIMMABLE DRIVER, UNIVERSAL VOLTAGE, PHOTOCCELL, BIRD GUARD, HOUSE SHIELD, AND PROVISION FOR FUTURE WIRELESS CONTROL. COLOR TO MATCH POLE. POLE: SEE POLE AND EQUIPMENT SCHEDULE ON PLANS FOR POLE TYPE.	FIXTURE: LUMEC ROADFOCUS CAT#: RFS-72W32LED3K-G2-R3M-UNV-DMG-[API-226]-API2011-RCD7-HS-GY3 OR APPROVED EQUAL POLE: PER SPEC	72W 32LED 3000°K	MULTI TAP VOLT 120-277V
		LUMINAIRE: LUMEC RFM LED FIXTURE, DIE CAST A360 0.1" THICK ALUMINUM ALLOY HOUSING, TENON MOUNTED BRACKETS, RoHS COMPLIANT LED LIGHT ENGINE, 48LED 108W LAMP WITH BACKLIGHT CONTROL, 3000°K, TYPE III, FULL CUTOFF OPTICS, 90% POWER FACTOR DIMMABLE DRIVER, UNIVERSAL VOLTAGE, PHOTOCCELL, BIRD GUARD, HOUSE SHIELD, AND PROVISION FOR FUTURE WIRELESS CONTROL. COLOR TO MATCH POLE.. POLE: SEE POLE AND EQUIPMENT SCHEDULE ON PLANS FOR POLE TYPE.	FIXTURE: LUMEC ROADFOCUS CAT#: RFM-108W48LED3K-G2-R3M-UNIV-DMG-[API-226]-API2011-RCD7-HS-GY3 OR APPROVED EQUAL POLE: PER SPEC	108W 48LED 3000°K	MULTI TAP VOLT 120-277V
		LUMINAIRE: LUMEC RFM LED FIXTURE, DIE CAST A360 0.1" THICK ALUMINUM ALLOY HOUSING, TENON MOUNTED BRACKETS, RoHS COMPLIANT LED LIGHT ENGINE, 64LED 145W LAMP WITH BACKLIGHT CONTROL, 3000°K, TYPE III, FULL CUTOFF OPTICS, 90% POWER FACTOR DIMMABLE DRIVER, UNIVERSAL VOLTAGE, PHOTOCCELL, BIRD GUARD, HOUSE SHIELD, AND PROVISION FOR FUTURE WIRELESS CONTROL. COLOR TO MATCH POLE. POLE: SEE POLE AND EQUIPMENT SCHEDULE ON PLANS FOR POLE TYPE.	FIXTURE: LUMEC ROADFOCUS CAT#: RFL-145W64LED3K-G2-R3M-UNV-DMG-[API-226]-API2011-RCD7-HS-GY3 OR APPROVED EQUAL POLE: PER SPEC	145W 64LED 3000°K	MULTI TAP VOLT 120-277V
		LUMINAIRE: DUAL TEAR DROP LED DOWN LIGHT, 175W 3000K LED LAMP, TYPE V DISTRIBUTION, 120-277V, AUTO-SENSING, NEMA 7-PIN TWIST-LOOK RECEPTACLE FOR PHOTOCCELL, DTL LONG LIFE TWIST-LOCK PHOTOCONTROL FOR SOLID-STATE, 2"X 2" ANSI WATTAGE LABEL, 120 DEGREE HOUSE SIDE SHIELD POLE: SEE POLE AND EQUIPMENT SCHEDULE ON PLANS FOR POLE TYPE.	FIXTURE: HOLOPHANE MEMPHIS UTILITY TEARDROP LED CAT#: MPL2-P50S-30K-AS-BK-TG-5-S-P7-PCLL-NL2X2-LT3HSS120 OR APPROVED EQUAL POLE: PER SPEC	2-175W LED 3000°K	MULTI TAP VOLT 120-277V

LIGHT FIXTURE SCHEDULE $\begin{pmatrix} 4 \\ E-0.4 \end{pmatrix}$



RECEPTACLE ON STREETLIGHT POLE DETAIL

NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

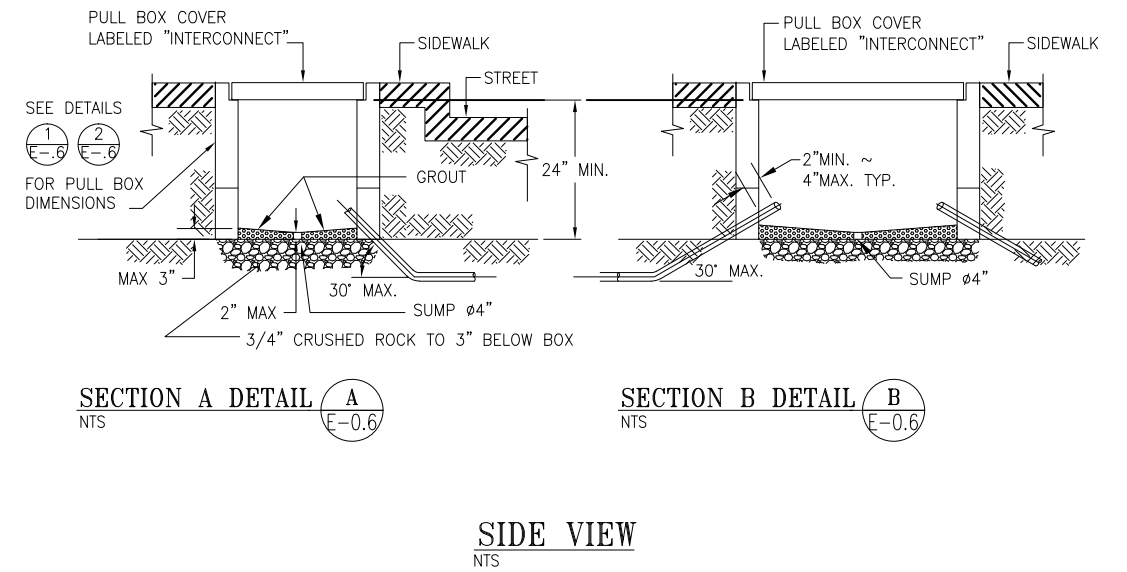
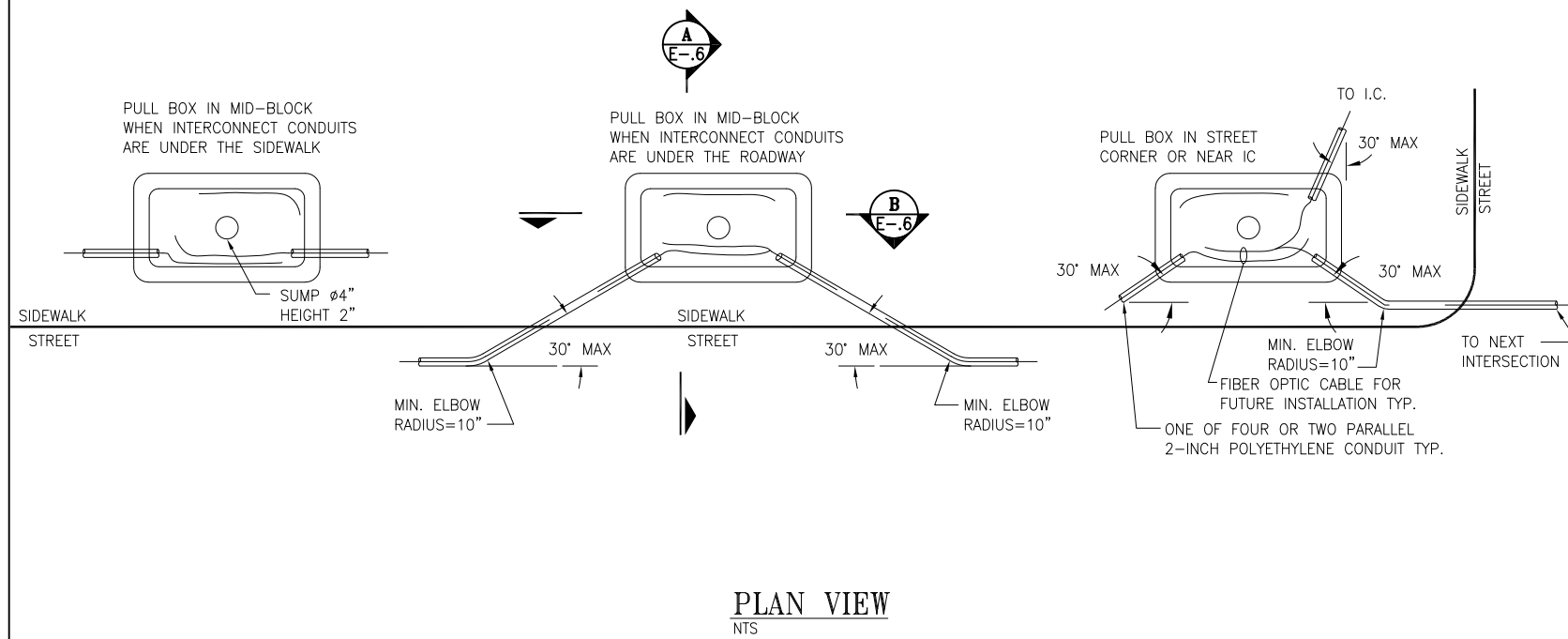
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REVIEWED
RECOMMENDED
APPROVED
DATE

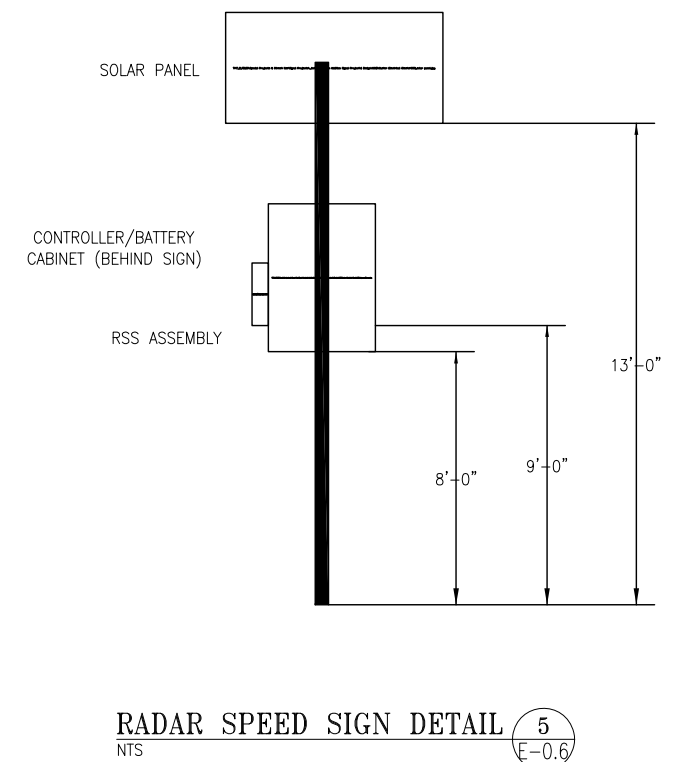
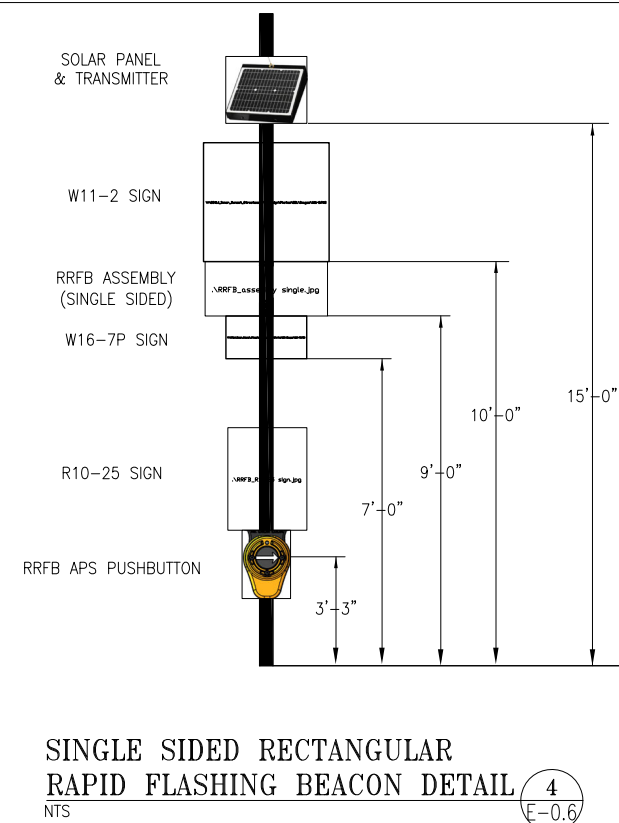
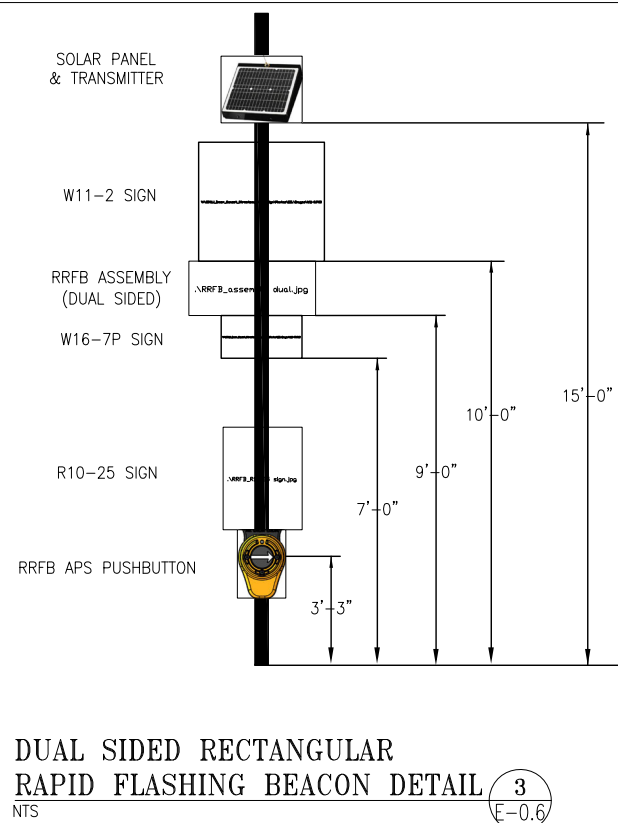
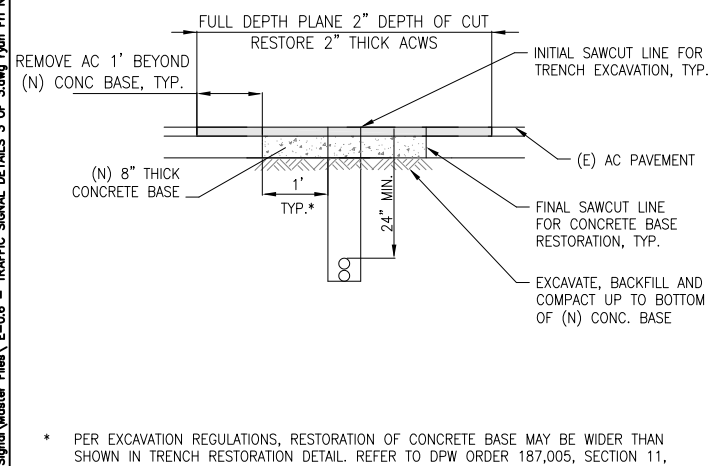


INFRASTRUCTURE_SPECIFICATIONS

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DRAWING		CL-NNNNN	
AA-NNN		REVISION	
ET-0.4		#X	

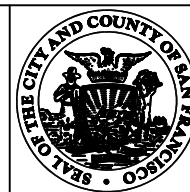


INTERCONNECT PULL BOX AND CONDUIT DETAIL

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NOT FOR CONSTRUCTION

DESIGNED
DRAWN
CHECKED
REVIEWED
RECOMMENDED
APPROVED
DATE



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY



MUNI METRO SYSTEM
J CHURCH MUNI FORWARD PROJECT

INFRASTRUCTURE_SPECIFICATIONS

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DRAWING		CL—NNNNN	
AA—NNN		REVISION	
ET—0.6		#X	

DRAWING
CL—NNNNN

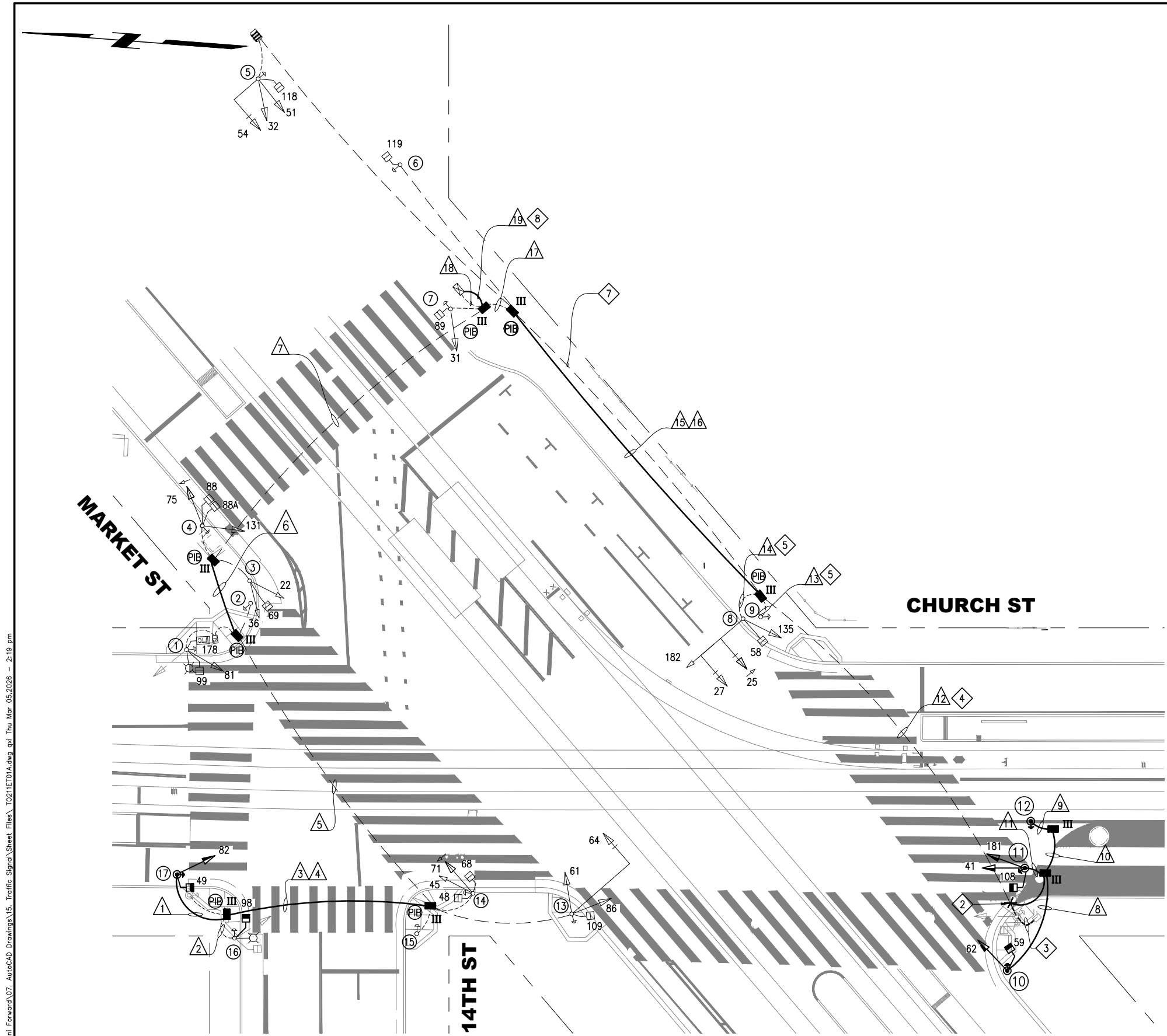
AA-NNN	REVISION
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VISION

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POLE AND EQUIPMENT SCHEDULE

POLE No.	TYPE OF POLE	LUMINAIRE TYPE	VEHICLE SIGNAL					PEDESTRIAN SIGNAL			REMARKS
			No.	TYPE	MOUNTING	VISORS	LOUVERS/BP	No.	TYPE	MOUNTING	
①	STREET LIGHT POLE (EX)		81 178	3S12" 1S 24"x24"	SV-1 SV-1	T T		99	1S-COUNT	SP-1	APS-4W
②	PPB POLE (EX)										APS-4W
③	1-A (10') (EX)		22 36	3S12" 3S12"	TV-2-T-SF SV-1	T T	LOUVERS	69	1S-COUNT	SP-1	
④	1-A (10') (EX)		75 131	3S12"RA 2S12"LB	TV-2-T	T T		88 88A	1S-COUNT 1S-COUNT	SP-2-T-SF	APS-4W
⑤	16-1-70 W/8' MAST ARM (EX)		54 51 32	3S12" 3S12" 3S12"	MAS SV-2-TA	T T T	BP	118	1S-COUNT	SP-1	APS-4W
⑥	1-A (7') (EX)							119	1S-COUNT	TP-1	APS-4W
⑦	1-A (10') (EX)		31	3S12"	SV-1	T		89	1S-COUNT	SP-1	APS-4W
⑧	16-2-70 W/15' MAST ARM (EX)		25 27 182	4S12"RRA 3S12" 2S12"-I	MAC-SF MAS SV-1	T T T	BP BP	58	1S-COUNT	SP-1	
⑨	PPB POLE (EX)										APS-4W
⑩	1-A (10')		62	3S12"	TV-1-T	T		59	1S-COUNT	SP-1	APS-3W
⑪	1-A (10')		41 181	3S12" 2S12"-I	TV-1-T SV-1	T T		108	1S-COUNT	SP-1	APS-3W
⑫	PPB POLE										APS-3W
⑬	MUNI POLE W/20' MAST ARM (EX)		64 61 86	3S12" 3S12" 3S12"	MAS SV-2-T-SF	T T T	BP	109	1S-COUNT	SP-1	APS-4W
⑭	MUNI POLE (EX)		45 71	3S12" 3S12"RA	SV-1 SV-1-T	T T		48 68	1S-COUNT 1S-COUNT	SP-1 SP-1	APS-4W
⑮	PPB POLE (EX)										APS-4W
⑯	STREET LIGHT POLE (EX)							98	1S-COUNT	SP-1	APS-3W
⑰	1-A (10')		82	3S12"	SV-1	T		49	1S-COUNT	SP-1	APS-3W

[illegible]

NOT FOR CONSTRUCTION

DESIGNED
DRAWN
CHECKED
REVIEWED
RECOMMENDED
APPROVED
DATE



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY



MUNI METRO SYSTEM

J MUNI FORWARD: CHURCH & MARKET

TRAFFIC SIGNALS
POLE AND EQUIPMENT SCHEDULE
14TH STREET, CHURCH STREET AND MARKET STREET

CONTRACT	
1335	
DRAWING	
CL-#####	
ET-01B	REVISION
ET-XX	0

	DESIGNED	REFER
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1. WRAP AASHTO M288, CLASS 2, NON-WOVEN GEOTEXTILE FABRIC AROUND CRUSHED ROCK BEDDING, 1-FOOT MIN OVERLAP.





BORDER D SIZE - REVISED 02/01/23



Entity	Percentage
Current government	75%
Opposition	25%





- 36"x36" SQUARE CATCH BASIN
W/ CURB INLET & GRATING

SCALE: NONE

1



NTS

SIDE SEWER OR CULVERT
CONNECTION DETAIL FOR RCP

SCALE: NONE

3



SCALE: NONE

DETAIL NOTES:

-
- 3D perspective view of a curb inlet assembly. The diagram shows a concrete curb with a rectangular opening. A grate is set into the curb, and a catch basin barrel is connected to the bottom of the grate. A gutter slope is indicated on the curb surface. A curb inlet protection bar is shown above the curb. A callout '2' is shown in a circle.
- Labels and callouts:
- CURB INLET PROTECTION BAR
 - 2
 - CURB INLET OPENING
 - (N) REINFORCED CONCRETE CURB FOR CURB OPENING PER SFDPW STD PLAN 87,187
 - GUTTER SLOPE (TYP)
 - (N) CURB AND GUTTER
 - (N) CATCH BASIN BARREL, FRAME & GRATING PER DETAIL 1
 - D CB GRATE SHALL BE IN BELOW CB GUTTER SHOWN IN CR-DWGS

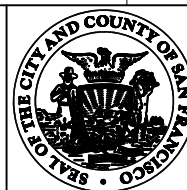
DETAIL NOTES:

- ### CATCH BASIN WITH CURB INLET

SCALE: NONE

DESIGNED	T.HUEY
DRAWN	S.LIM/S.HUEY
CHECKED	N.CHAN
SECTION	MANAGER L.WONG
DEPUTY	BUREAU MMANAGER I.DHAPA
BUREAU	MANAGER P.RIVERA
DATE	10/2025

	REFERENCES

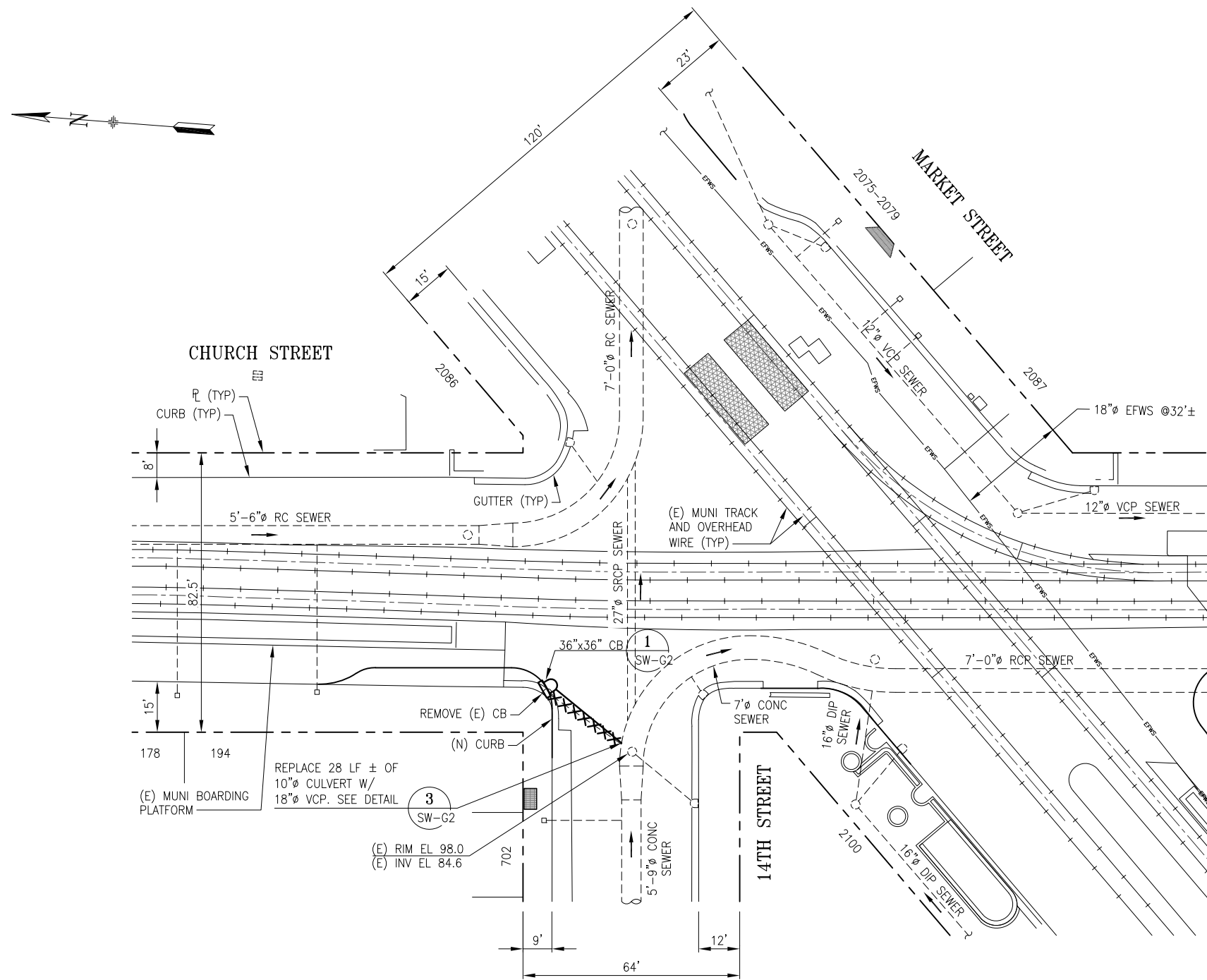


DETAILS FOR SEWER WORK

CONTRACT		1335	
DRAWING		SW-G2	
		REVISION	
		0	

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BORDER D SIZE - REVISED 02/01/23



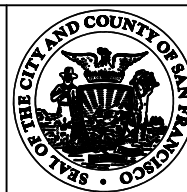
NOTE:

1. CONTRACTOR TO POTHOLE (E) UTILITIES TO CONFIRM CULVERTS CLEAR ALL (E) UTILITIES PRIOR TO ORDERING OF STORM WATER INLET AND CULVERT.

[illegible]

DESIGNED	T.HUEY
DRAWN	S.LIM/S.HUEY
CHECKED	N.CHAN
SECTION	MANAGER L.WONG
DEPUTY	BUREAU M'NANAGER I.DHAPA
BUREAU	MANAGER P.RIVERA
DATE	10/2025

REFERENCES
A-15834.4
BK-083_PG-039
L-8989-1
A-18016
90524



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY



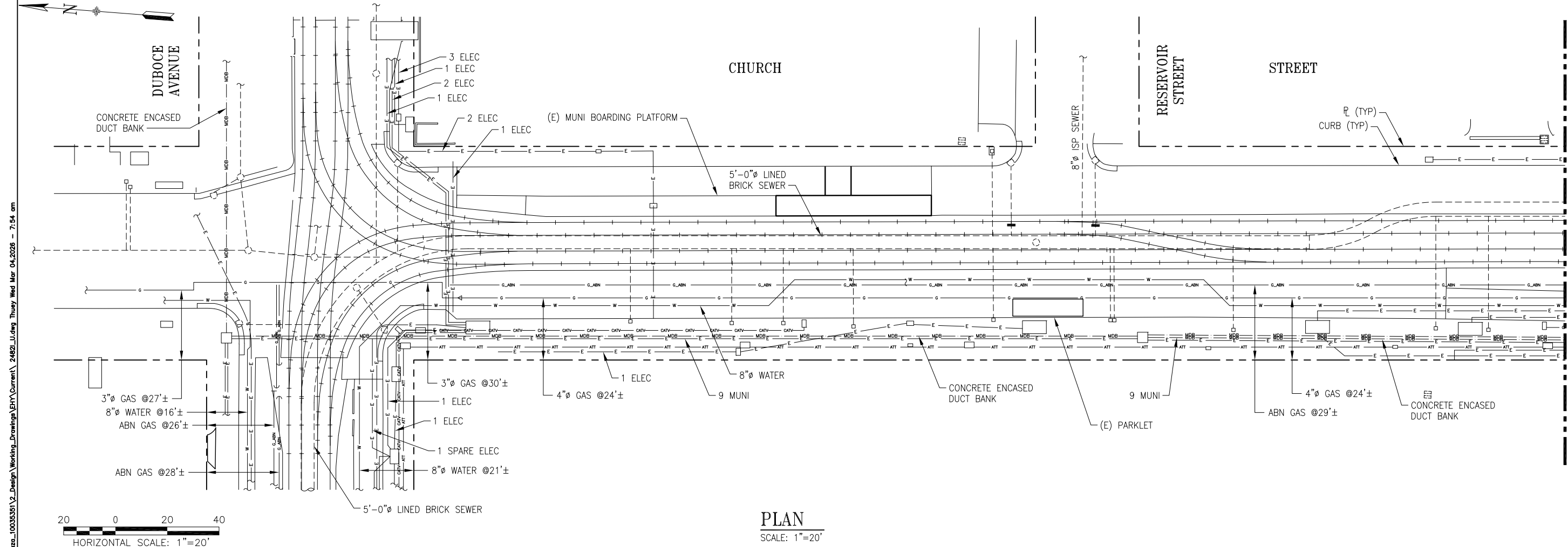
MUNI METRO SYSTEM

J MUNI FORWARD: CHURCH & MARKET

CHURCH STREET AND 14TH STREET INTERSECTION
DRAINAGE PLAN

CONTRACT	1335
DRAWING	SW-1
	REVISION

V:\24821_PW_U_Church_Market_Plan_10035351\2_Design_Working_Drawings\EHY\Current\24821_U.dwg Thruy Wed Mar 04 2026 - 7:54 am



CAUTION

THE UTILITY DATA IS COMPILED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY AGENCIES, AND THE CITY DOES NOT GUARANTEE ITS ACCURACY. SERVICE LATERALS INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SEWER ARE NOT SHOWN FOR DRAWING CLARITY. THESE LATERALS CAN BE LOCATED IN THE FIELD FROM GAS METER, WATER METER, AND SIDE SEWER VENT LOCATIONS. THE CONTRACTOR SHALL ASSUME AT LEAST ONE SUCH SERVICE FOR EACH PROPERTY. SOME PROPERTIES MAY HAVE MULTIPLE SERVICES.

THE UTILITY INFORMATION IS NOT A CONSTRUCTION DRAWING AND IS INCLUDED ONLY FOR THE ASSISTANCE OF THE CONTRACTOR.

FOR CONSTRUCTION DATA AND EXISTING SEWER INFORMATION, SEE APPROPRIATE CONTRACT PLANS.

LEGEND	
	(N) SEWER FACILITY
	(E) SEWER FACILITY
	(E) WATER MAIN
	(E) ABANDONED WATER MAIN
	(E) EMERGENCY FIREFIGHTING WATER SYSTEM (AWSS)
	(E) PG&E ELECTRIC
	(E) PG&E DEACTIVATED ELECTRIC
	(E) PG&E GAS
	(E) PG&E ABANDONED GAS
	(E) PG&E DEACTIVATED GAS
	(E) CABLE FACILITY
	(E) AT&T FACILITY
	(E) AT&T ABANDONED FACILITY
	(E) TELECOM FACILITY
	(E) LEVEL 3 FACILITY
	(E) STREET LIGHTING FACILITY
	(E) TRAFFIC SIGNAL FACILITY
	(E) MUNI DUCT BANK
	(E) MUNI OVERHEAD WIRES
	(E) MUNI TRACKS

PLAN
SCALE: 1"=20'

REVISIONS					
NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED

DESIGNED
DRAWN
CHECKED
SECTION MANAGER
DEPUTY BUREAU MANAGER
BUREAU MANAGER
DATE

REFERENCES



CITY AND COUNTY OF SAN FRANCISCO

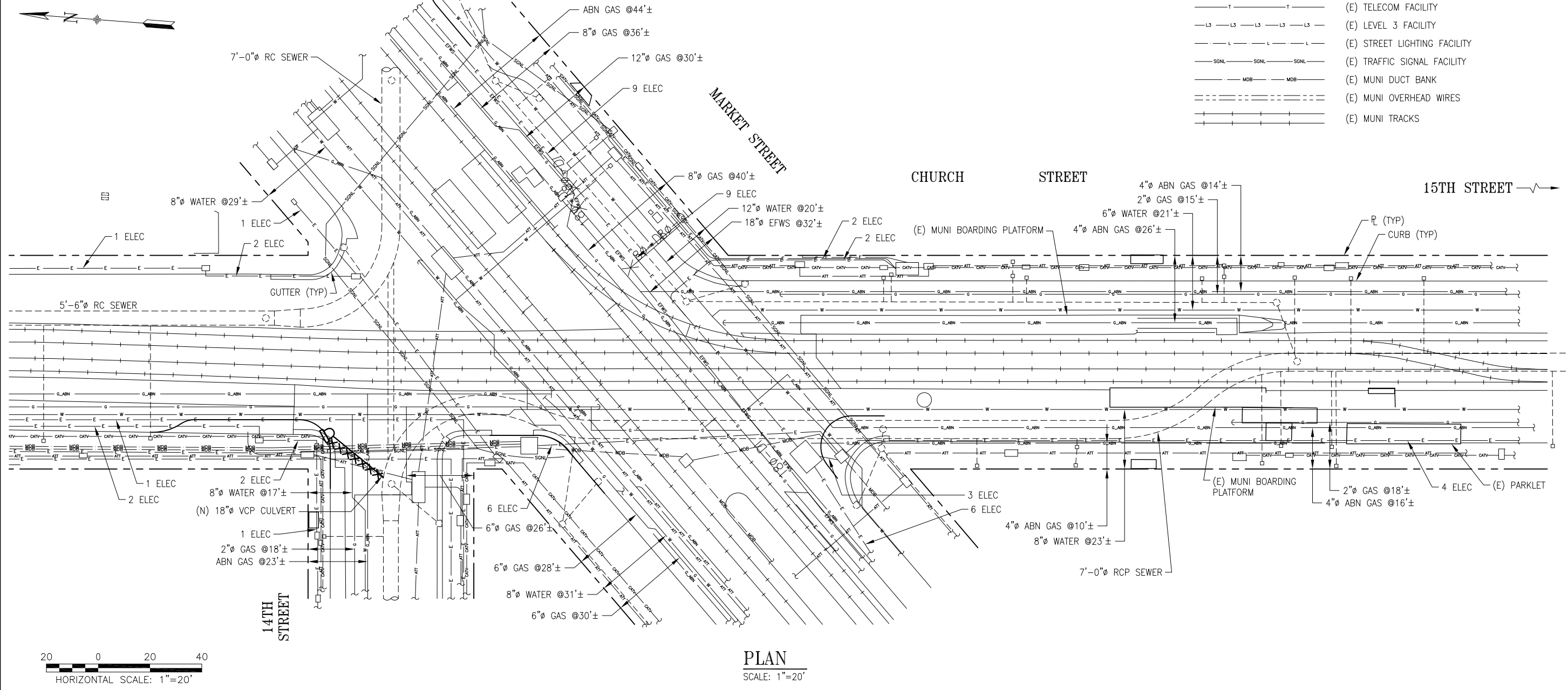
MUNICIPAL TRANSPORTATION AGENCY



MUNI METRO SYSTEM		CONTRACT	1335
J MUNI FORWARD: CHURCH & MARKET		DRAWING	U-1
CHURCH STREET DUBOCE STREET TO 15TH STREET UTILITY OCCUPANCY PLAN - SHEET 1		REVISION	0

MATCHLINE - SEE SHEET 2

V:\24821_PW_J_Church_Market_Plaza_100353551\2_Design_Working_Drawings\CHY\Current\ 24821_U.dwg Thru Wed Mar 04 2026 - 7:55 am



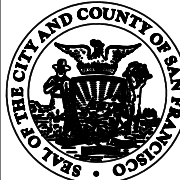
CAUTION

THE UTILITY DATA IS COMPILED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY AGENCIES, AND THE CITY DOES NOT GUARANTEE ITS ACCURACY. SERVICE LATERALS INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SEWER ARE NOT SHOWN FOR DRAWING CLARITY. THESE LATERALS CAN BE LOCATED IN THE FIELD FROM GAS METER, WATER METER, AND SIDE SEWER VENT LOCATIONS. THE CONTRACTOR SHALL ASSUME AT LEAST ONE SUCH SERVICE FOR EACH PROPERTY. SOME PROPERTIES MAY HAVE MULTIPLE SERVICES.

THE UTILITY INFORMATION IS NOT A CONSTRUCTION DRAWING AND IS INCLUDED ONLY FOR THE ASSISTANCE OF THE CONTRACTOR.

FOR CONSTRUCTION DATA AND EXISTING SEWER INFORMATION, SEE APPROPRIATE CONTRACT PLANS.

LEGEND	
	(N) SEWER FACILITY
	(E) SEWER FACILITY
	(E) WATER MAIN
	(E) ABANDONED WATER MAIN
	(E) EMERGENCY FIREFIGHTING WATER SYSTEM (AWSS)
	(E) PG&E ELECTRIC
	(E) PG&E DEACTIVATED ELECTRIC
	(E) PG&E GAS
	(E) PG&E ABANDONED GAS
	(E) PG&E DEACTIVATED GAS
	(E) CABLE FACILITY
	(E) AT&T FACILITY
	(E) AT&T ABANDONED FACILITY
	(E) TELECOM FACILITY
	(E) LEVEL 3 FACILITY
	(E) STREET LIGHTING FACILITY
	(E) TRAFFIC SIGNAL FACILITY
	(E) MUNI DUCT BANK
	(E) MUNI OVERHEAD WIRES
	(E) MUNI TRACKS

							DESIGNED T.HUEY		REFERENCES		CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY		MUNI METRO SYSTEM		CONTRACT 1335
							DRAWN S.LIM/S.HUEY						DRAWING U-2		
							CHECKED N.CHAN							REVISION	
							SECTION MANAGER L.WONG							0	
							DEPUTY BUREAU MMANAGER I.DHAPA								
							BUREAU MANAGER P.RIVERA								
							DATE 10/2025								