EXHIBIT A

CITY OF SAN MATEO
DEPARTMENT OF PUBLIC WORKS

STANDARD DRAWINGS
ADOPTED AUGUST 2026

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DETAIL NO.	DETAIL TITLE

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S-6	SEWER DROP CONNECTION

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DETAIL NO.	DETAIL TITLE

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TRAFFIC

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T-2	STREET NAME SIGN
T-3	INTERNALLY ILLUMINATED STREET NAME SIGN
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DETAIL NO.	DETAIL TITLE

ELECTRICAL

E-1	ELECTRICAL SPECIFICATIONS
E-2	TYPICAL ELECTROLIER PULL BOX
E-3	TYPICAL PULL BOX AND CONDUIT
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E-5	STANDARD STREETLIGHT FOUNDATION
E-6A	STREETLIGHT LAYOUTS
E-6B	STREETLIGHT PLACEMENT
E-7A	STANDARD ELECTROLIER (COBRA HEAD)
E-7B	DECORATIVE STREETLIGHT (PENDANT)
E-7C	DECORATIVE STREETLIGHT (POST TOP)

STREET TREES

TR-1	TREE GRATE
TR-1	TREE GRATE

GENERAL PUBLIC IMPROVEMENT REQUIREMENTS:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS AND CONTACTING PUBLIC WORKS INSPECTOR FOR PRE-CONSTRUCTION MEETINGS AND INSPECTIONS FOR CONSTRUCTION AND RESTORATION IN THE PUBLIC RIGHT-OF-WAY.
2. ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A CALIFORNIA LICENSED CLASS "A" CONTRACTOR, UNLESS OTHERWISE APPROVED BASED ON THE SCOPE OF WORK AND THE CONTRACTOR'S LICENSE.
3. CONSTRUCTION PLANS FOR WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL INCLUDE THE CITY STANDARD GENERAL NOTES (CITY DETAIL G-1B).
4. CONSTRUCTION PLANS ARE RECOMMENDED TO USE OR INCLUDE THE CITY STANDARD ABBREVIATIONS, LINE TYPES, AND SYMBOLS.

CITY STANDARD GENERAL NOTES:

1. APPROVAL OF THESE PLANS IS SUBJECT TO ALL OF THE FOLLOWING CITY STANDARD NOTES AND SHOWN ON THE PLANS.
2. APPROVAL OF THESE PLANS DOES NOT RELEASE THE PERMITTEE OR OWNER OF THE RESPONSIBILITY FOR THE CORRECTION OF MISTAKES, ERRORS, OR OMISSIONS CONTAINED THEREIN. IF DURING THE COURSE OF CONSTRUCTION OF THE IMPROVEMENTS, PUBLIC INTEREST REQUIRES A MODIFICATION OF THESE IMPROVEMENT PLANS OR ANY CITY SPECIFICATIONS, THE PUBLIC WORKS DIRECTOR SHALL HAVE THE AUTHORITY TO APPROVE AND REQUIRE SUCH MODIFICATION AND TO SPECIFY THE MANNER IN WHICH THE SAME IS TO BE MADE.
3. ANY REVISION TO THESE APPROVED PLANS SHALL BE ACCURATELY SHOWN ON A REVISED PLANS REVIEWED AND APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO INSTALLATION OF THE IMPROVEMENTS.
4. ALL CONSTRUCTION WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF SAN MATEO STANDARD DETAILS AND SPECIFICATIONS.
5. CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS INSPECTOR AT LEAST 48 HOURS PRIOR TO STARTING WORK.
6. EXISTING UTILITIES:
   A. CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING UTILITIES IN THE FIELD.
   B. 48 HOURS PRIOR TO DIGGING, CONTRACTOR SHALL PRE-MARK THE WORK AREA, CALL UNDERGROUND SERVICE ALERT (USA) (CALL 8-1-1) FOR A TICKET, AND OBTAIN A TICKET NUMBER.
   C. CONTRACTOR SHALL REMOVE ALL USA MARKINGS AS SOON AS THEY ARE NO LONGER NEEDED. REMOVAL OF PAINT USA MARKINGS SHALL BE VIA HIGH PRESSURE WATER METHOD ONLY.
7. CONTRACTOR WILL BE RESPONSIBLE TO RESTORE ALL DAMAGED, REMOVED, OR OTHERWISE DISTURBED WALLS, FENCES, SERVICES, UTILITIES, HARDSCAPE IMPROVEMENTS, SIGNAGE, STRIPING, OR OTHER FEATURES DUE TO THE CONTRACTOR'S WORK. RESTORATION SHALL BE TO CITY STANDARDS AS APPLICABLE OR REPLACED IN-KIND WHERE CITY STANDARDS ARE NOT APPLICABLE.
8. ALL CITY SURVEY MONUMENTS SHALL BE PRESERVED. IN THE EVENT THAT A CITY MONUMENT IS LOST OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES, THE CONTRACTOR, AT THEIR SOLE EXPENSE, SHALL BE RESPONSIBLE FOR THE RE-ESTABLISHMENT AND THE FILING OF A CORNER RECORD WITH THE COUNTY'S SURVEYOR'S OFFICE. A RECORD OF SURVEY SHALL BE FILED FOR ALL NEW CITY MONUMENTS SET IN CONJUNCTION WITH THIS IMPROVEMENT PLAN, UNLESS A FINAL OR PARCEL MAP REQUIRING SAID MONUMENTS IS RECORDED AS PART OF THIS PROJECT.
9. ALL CONSTRUCTION STAKING FOR SHALL BE DONE BY A LICENSED LAND SURVEYOR REGISTERED CIVIL ENGINEER.
10. ALL PUBLIC OR PRIVATE FACILITIES, FURNITURE, UTILITIES, OR LANDSCAPING THAT REQUIRE RELOCATION AS DETERMINED BY THE PUBLIC WORKS DIRECTOR SHALL BE RELOCATED AT THE SOLE EXPENSE OF THE PERMITTEE.
11. TREE PERMITS FROM THE DEPARTMENT OF PARK AND RECREATION SHALL BE OBTAINED PRIOR TO INSTALLATION AND REMOVAL OF STREET TREES.
12. FOR ANY LANE CLOSURES, THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL OF THE PUBLIC WORKS DIRECTOR BEFORE DEPLOYING THE CLOSURE. THE CONTRACTOR SHALL PROVIDE CONES, BARRICADES, SIGNS, OR FLAGGERS AS NECESSARY TO CONTROL TRAFFIC AND PREVENT HAZARDOUS CONDITIONS PER CALTRANS MANUAL ON TRAFFIC CONTROL DEVICES, LATEST EDITION.
13. ACCESSIBLE PEDESTRIAN PATH OF TRAVELS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION TO THE SATISFACTION OF THE PUBLIC WORKS DIRECTOR.
14. STOCKPILING OR STORAGE OF CONSTRUCTION MATERIALS AND EQUIPMENT IS NOT ALLOWED IN OR UPON THE PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN APPROVAL FROM THE PUBLIC WORKS DIRECTOR.
15. NO OPEN TRENCHES OR EXCAVATIONS SHALL BE LEFT THE END OF THE WORK DAY. TRAFFIC PLATES OR HOT MIX ASPHALT SHALL BE INSTALLED AND COMPACTED BY MECHANICAL MEANS TO PRODUCE A SMOOTH SURFACE FOR PEDESTRIAN AND VEHICULAR TRAFFIC. ALL PLATE EDGES SHALL BE SECURED TO PREVENT RATTLING AND MOVEMENT AS WELL AS PROTECTED WITH ASPHALT WITH A 2-FT TAPER. LONG TERM INSTALLATIONS (6 OR MORE DAYS) SHALL REQUIRE PUBLIC WORKS DIRECTOR APPROVAL AND REQUIRE THE PLATES TO BE INSTALLED FLUSH TO THE ROADWAY SURFACE.
16. CONSTRUCTION SITES SHALL BE KEPT CLEAN AT ALL TIMES. THE CONTRACTOR OR PERMITTEE SHALL NOT BE ALLOWED TO LEAVE THE SITE PRIOR TO THOROUGHLY CLEANING SIDEWALKS, CURBS, GUTTERS, AND STREET SURFACES. CLEANING SHALL BE ACCOMPLISHED BY EITHER HAND OR MACHINE SWEEPING AS REQUIRED AT NO COST TO THE CITY. THE CONTRACTOR SHALL NOT BE ALLOWED TO FLUSH THE STREETS WITH WATER UNTIL AFTER THE AREA HAS BEEN COMPLETELY AND THOROUGHLY SWEPT AND ALL DEBRIS PICKED UP AND PROPERLY DISPOSED OF.
17. CONSTRUCTION SHALL COMPLY WITH THE BAY AREA AIR DISTRICT'S DUST CONTROL MEASURES.
18. UPON DISCOVERY OF HAZARDOUS MATERIALS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE PUBLIC WORKS INSPECTOR IN WRITING.
19. UPON DISCOVERY OF HUMAN REMAINS AND/OR CULTURAL MATERIALS, ALL PROJECT-RELATED CONSTRUCTION SHOULD CEASE WITHIN A 100-FT RADIUS. THE CONTRACTOR SHALL NOTIFY THE SAN MATEO COUNTY CORONER IMMEDIATELY.

CITY OF SAN MATEO CALIFORNIA	**DEPARTMENT OF PUBLIC WORKS** **CITY STANDARD GENERAL NOTES**	DATE 8/17/2022
		SHEET **G-1B**

A	AREA
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ADA	AMERICANS WITH DISABILITIES ACT
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWS	AMERICAN WELDING SOCIETY
BC	BACK OF CURB
BM	BENCHMARK
BW	BACK OF WALK
CB	CATCH BASIN
CBR	CALIFORNIA BEARING RATIO
CDF	CONTROLLED DENSITY FILL
CIPP	CURED-IN-PLACE PIPE
℄, C/L	CENTER LINE
CL	CLASS
CLR	CLEARANCE, CLEAR
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CO	CLEANOUT
COMM	COMMUNICATIONS
COMP	COMPACTION
CONC	CONCRETE
CONST	CONSTRUCT, CONSTRUCTION
COSM	CITY OF SAN MATEO
CY, C.Y.	CUBIC YARDS
Ø, D, DIA	DIAMETER
°, DEG	DEGREE
DI	DROP INLET
DTL	DETAIL
DPW	DEPARTMENT OF PUBLIC WORKS
DWY, D/W	DRIVEWAY
E, ELEC	ELECTRIC
EA	EACH
EASE	EASEMENT
EG	EXISTING GRADE
EL	ELEVATION
ELEC	ELECTRIC, ELECTRICAL
EP	EDGE OF PAVEMENT
EQ	EQUAL
EVA	EMERGENCY VEHICLE ACCESS
E.W.	EACH WAY
EX	EXISTING
FC	FACE OF CURB
FF	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE ELEVATION
FS	FINISHED SURFACE ELEVATION
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FL	FLOW LINE
FM	FORCE MAIN
FT	FEET
G	GAS
GA, GAL	GALVANIZED
GB	GRADE BREAK
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GIP	GALVANIZED IRON PIPE
GPM	GALLONS PER MINUTE
HDPE	HIGH-DENSITY POLYETHYLENE
HMA	HOT-MIX ASPHALT
HP	HIGH POINT
I.D.	INSIDE DIAMETER
INV	INVERT
IPS	IRON PIPE SIZE
IRR	IRRIGATION
JP	JOINT POLE
JT	JOINT TRENCH
LF	LINEAL FEET, LINEAR FEET
LG	LIP OF GUTTER
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MON	MONUMENT
NTS	NOT TO SCALE
NO., #	NUMBER
O.C., O/C	ON CENTER
O.D.	OUTSIDE DIAMETER
PAE	PUBLIC ACCESS EASEMENT
PCC	PORTLAND CEMENT CONCRETE
PB	PULL BOX
PED	PEDESTRIAN
℄, P/L	PROPERTY LINE
PSE	PUBLIC SIDEWALK EASEMENT
PSI	POUNDS PER SQUARE INCH
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REBAR	REINFORCEMENT BAR
RRFB	RECTANGULAR RAPID FLASHING BEACON
ROW, R.O.W.	RIGHT OF WAY
RIM	RIM ELEVATION
S	SLOPE
SD	STORM DRAIN
SEC	SECTION
SF, SQFT	SQUARE FEET
SHT	SHEET
SL	STREET LIGHT
SMMC	SAN MATEO MUNICIPAL CODE
SS	SANITARY SEWER
ST	STREET
STA	STATION
STD	STANDARD
STRUCT	STRUCTURAL
SUP	SUPERINTENDENT
SW	SIDEWALK
T, TELE	TELECOMM, TELEPHONE
TC	TOP OF CURB
TEMP	TEMPORARY
THK	THICKNESS
TP	TOP OF PAVEMENT
TS	TRAFFIC SIGNAL
TW	TRAVEL WAY
TYP	TYPICAL
U.S.A	UNDERGROUND SERVICE ALERT (811)
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VIS	VISIBILITY
W/	WITH
WM	WATER METER
WV	WATER VALVE
WYE	WYE FITTING
XING	CROSSING

NOTES:

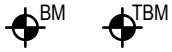
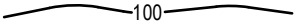
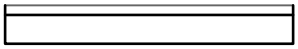
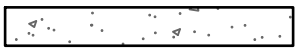
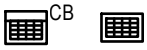
1. THESE ARE STANDARD CITY ABBREVIATIONS TO BE USED IN CONSTRUCTION PLANS.

DEPARTMENT OF PUBLIC WORKS

STANDARD ABBREVIATIONS

DATE
8/17/2022

SHEET
G-2

PROPOSED	EXISTING	DESCRIPTION
		SUBDIVISION / PROJECT SITE BOUNDARY
		PROPERTY / RIGHT-OF-WAY LINE
		EASEMENT LINE
		CENTERLINE
		FENCE LINE
		BENCHMARK / TEMPORARY BENCHMARK
		CONTOUR LINE
		SLOPE/GRADE
		FLOWLINE
		BUILDING OUTLINE
		GUTTER, FACE OF CURB, AND BACK OF CURB
		SIDEWALK
		PAVEMENT (DEEP AC, GRIND/OVERLAY, SLURRY)
		STREET SIGN
		STORM DRAIN LINE
		CATCH BASIN / DROP INLET
		SANITARY SEWER LINE
		SANITARY SEWER FORCE MAIN
		MANHOLE
		CLEANOUT
		STREET LIGHT CONDUIT LINE
		STREET LIGHT
		PULL BOX
		WATER LINE
		WATER METER
		FIRE HYDRANT
		OVERHEAD LINE
		JOINT POLE
		JOINT TRENCH LINE
		GAS LINE
		ELECTRIC LINE
		COMMUNICATION LINE
		STREET TREE

DEPARTMENT OF PUBLIC WORKS

STANDARD LINES AND SYMBOLS

DATE
8/17/2022

SHEET
G-3

RESERVED

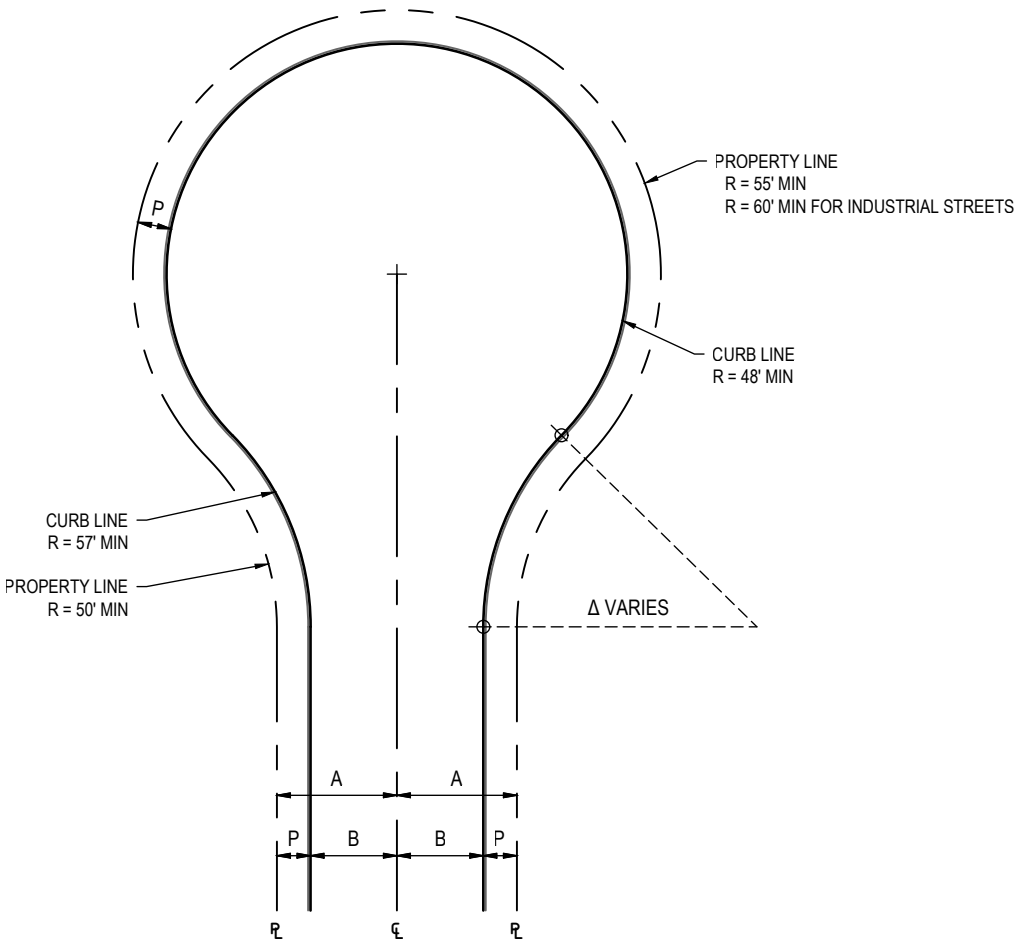
	DEPARTMENT OF PUBLIC WORKS	DATE 8/17/2022
	TYPICAL STREET SECTIONS	SHEET **A-1A**

RESERVED

	DEPARTMENT OF PUBLIC WORKS	DATE 8/17/2022
	TYPICAL STREET SECTIONS	SHEET **A-1B**

RESERVED

	DEPARTMENT OF PUBLIC WORKS	DATE 8/17/2022
	TYPICAL STREET SECTIONS	SHEET **A-1C**



PLAN

NOTES:

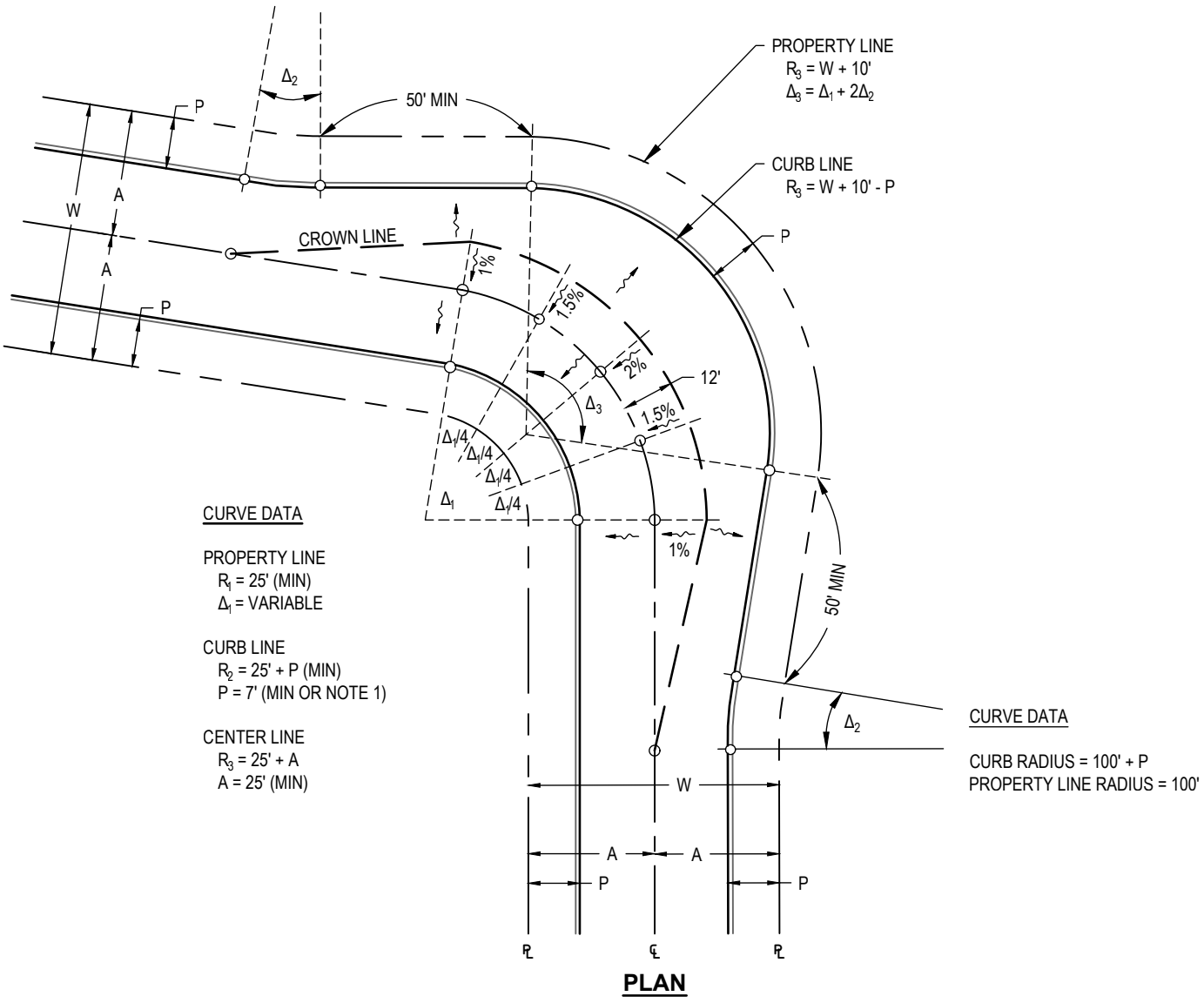
1. A = 25' MINIMUM
2. B = 18' MINIMUM UNLESS OTHERWISE APPROVED
3. P = 7' MINIMUM OR AS REQUIRED PER CURRENT CITY PEDESTRIAN MASTER PLAN
4. NO PARKING ALLOWED WITHIN CUL-DE-SAC. IF PARKING IS TO BE PROVIDED, MAINTAIN A 48-FT CLEAR RADIUS FROM THE PARKING.

DEPARTMENT OF PUBLIC WORKS

CUL-DE-SAC

DATE
8/17/2022

SHEET
A-2



NOTES:

1. P = 7' MINIMUM OR AS REQUIRED PER CURRENT CITY PEDESTRIAN MASTER PLAN
2. USE NORMAL SECTION FROM INNER CURB TO CENTER LINE.
3. FROM CROWN LINE TO OUTER CURB, THE MAXIMUM SLOPE IS 1" PER FOOT.
4. SUPERELEVATION PERCENTAGES SHOWN ARE STRAIGHT FROM CENTERLINE TO CROWN LINE.
5. ELEVATIONS ARE REQUIRED WHERE CIRCLED.
6. WHEN STREETS HAVE TILT-TYPE SECTION, THE CROWN LINE WILL NOT NECESSARILY TERMINATE ON THE CENTERLINE PERPENDICULAR TO THE POINT OF TANGENCY OF THE CURB.

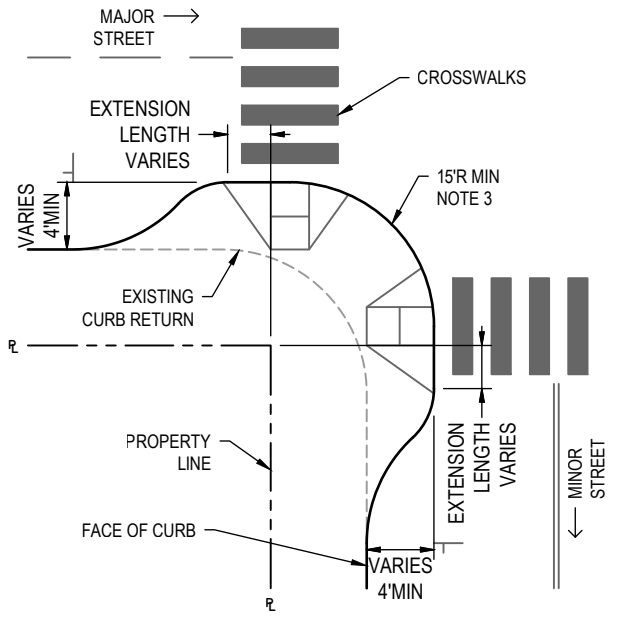
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

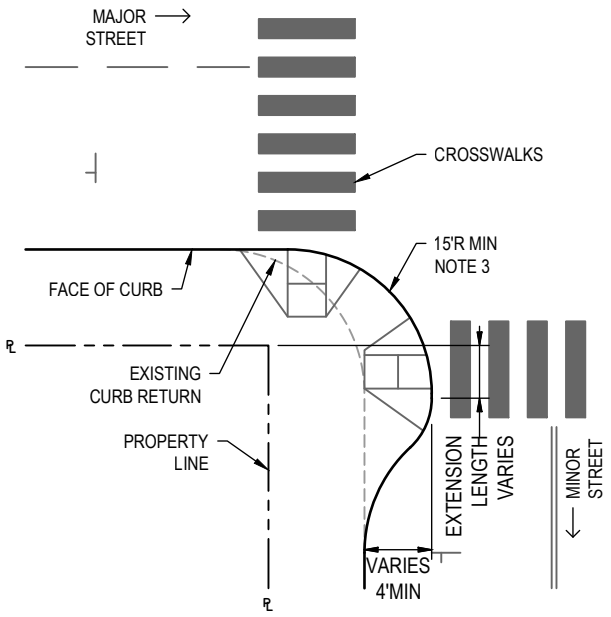
CORNER KNUCKLE

DATE
8/17/2022

SHEET
A-3



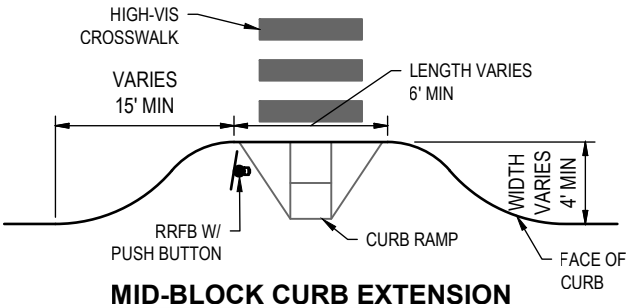
CURB EXTENSION ON BOTH STREETS



CURB EXTENSION ON MINOR STREET ONLY

CURB EXTENSIONS (BULBOUTS) NOTES:

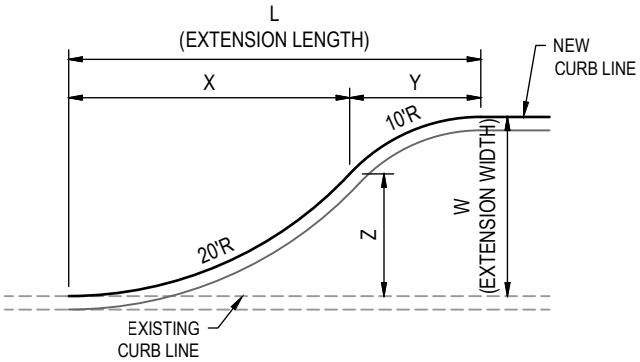
1. EXTENSION WIDTH SHOULD NOT EXCEED THE WIDTH OF THE ADJACENT PARKING STALL OR EXTEND INTO AN ADJACENT BIKE LANE WHICHEVER IS FARTHEST FROM THE CURB.
2. EXTENSIONS SHOULD BE USED ON MEDIUM TO LOW TRAFFIC VOLUME ROADS OR WHERE PEDESTRIAN PRIORITY IS GIVEN.
3. CORNER RADII SHALL ALLOW FOR APPROPRIATE VEHICLE TURNING AS DIRECTED BY PUBLIC WORKS DIRECTOR.
4. HIGH-VISIBILITY CROSSWALKS ARE RECOMMENDED WITH ALL CURB EXTENSIONS.
5. FOR MID-BLOCK EXTENSIONS OR UNCONTROLLED INTERSECTION CROSSINGS, HIGH-VISIBILITY CROSSWALKS AND RECTANGULAR RAPID FLASHING BEACONS (RRFB) SHALL BE PROVIDED.



MID-BLOCK CURB EXTENSION

DIMENSION TABLE				
W	L	X	Y	Z
4'	15.0'	10.0'	5.0'	2.7'
5'	16.6'	11.1'	5.5'	3.3'
6'	18.0'	12.0'	6.0'	4.0'
7'	19.3'	12.8'	6.4'	4.7'
8'	20.4'	13.6'	6.8'	5.3'

W = CURB EXTENSION WIDTH
L = CONFORM LENGTH



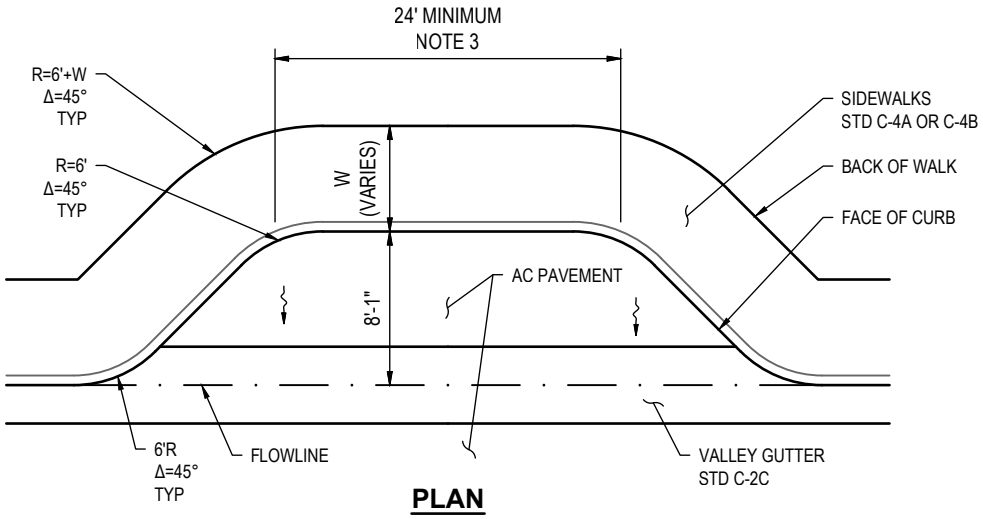
CURB EXTENSION DIMENSIONS

DEPARTMENT OF PUBLIC WORKS

CURB EXTENSIONS

DATE
8/17/2022

SHEET
A-4



PLAN

NOTES:

1. VEHICLE TURNOUTS SHALL REQUIRE APPROVAL FROM THE PUBLIC WORKS DIRECTOR.
2. WHERE PUBLIC RIGHT-OF-WAY WIDTH IS LIMITED, PUBLIC ACCESS EASEMENTS SHALL BE REQUIRED AND DEDICATED TO THE CITY.
3. INCREASE LENGTH BY 24-FT PER ADDITIONAL STALL LENGTH.

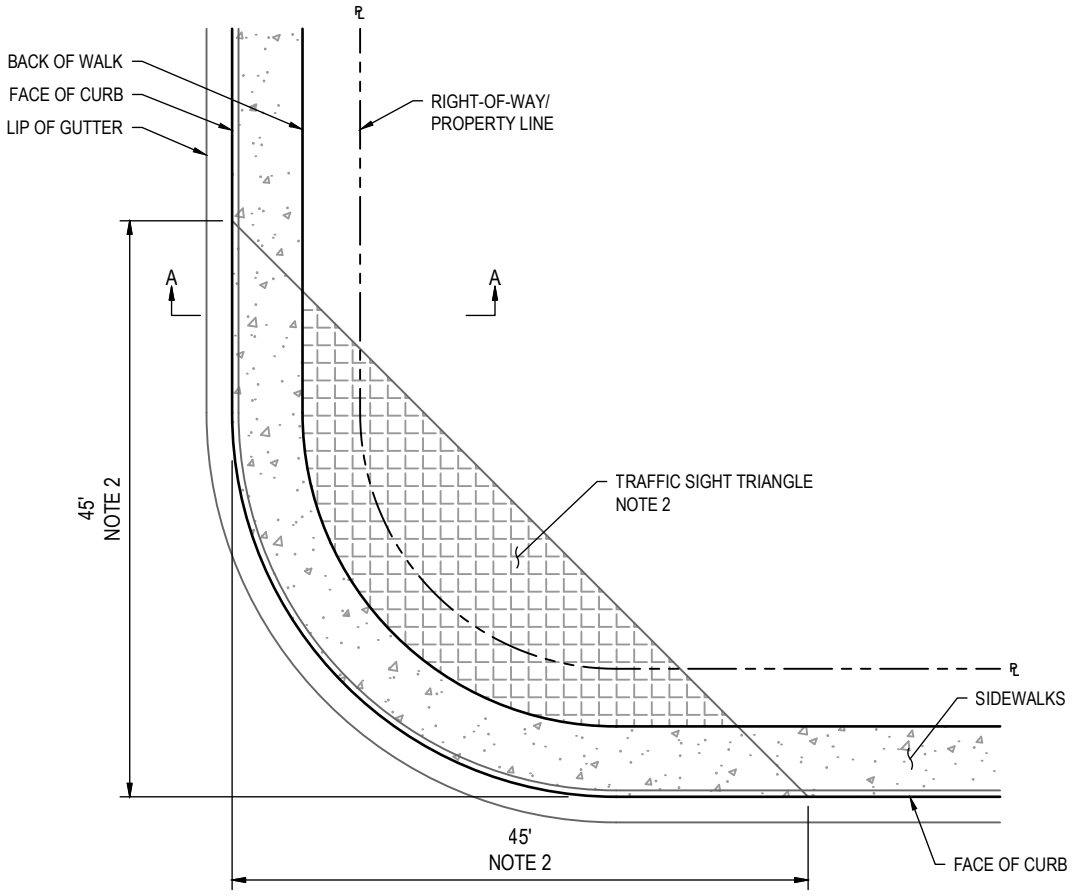
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

VEHICLE TURNOUT

DATE
8/17/2006

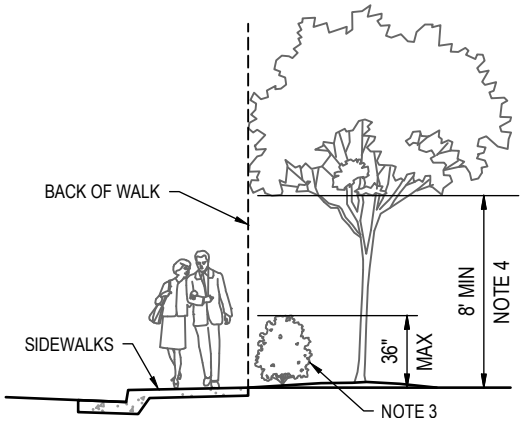
SHEET
A-5



CORNER PLAN

NOTES:

1. THIS DRAWING IS A GUIDELINE. CASES NOT ADDRESSED BY THIS SHEET OR SMMC CHAPTER 27.84 SHALL REQUIRE PUBLIC WORKS DIRECTOR APPROVAL.
2. TRAFFIC SIGHT TRIANGLE SHALL BE MEASURED 45' FROM THE INTERSECTION POINT OF THE CURB LINES AS SHOWN ABOVE. IN THE DOWNTOWN AREA, INTERSECTIONS MAY BE REDUCED TO 25' ON CASE BY CASE BASIS AS APPROVED BY THE PUBLIC WORKS DIRECTOR.
3. VEGETATION, FENCES, OR OTHER STRUCTURES SHALL BE NO TALLER THAN 36" ABOVE THE CURB WITHIN TRAFFIC SIGHT TRIANGLE.
4. TREES SHALL BE TRIMMED BACK TO THE TRUNK AT LEAST 8' ABOVE THE SIDEWALK WITHIN THE TRAFFIC SIGHT TRIANGLE.
5. THE FOLLOWING ARE EXEMPT FROM THESE RESTRICTIONS:
   A. EXISTING PERMANENT BUILDINGS
   B. UTILITY POLES
   C. CITY SIGNAGE, SIGNALS, AND SIGNAL EQUIPMENT
   D. PLANTS IN OPEN GROWTH HABITATS THAT DO NOT FORM A HEDGE AND TRIMMED TO LEAVE UNOBSTRUCTED CROSS VISIBILITY
   E. WHERE THE GROUND CONTOUR PHYSICALLY CONSTRICTS CROSS VISIBILITY

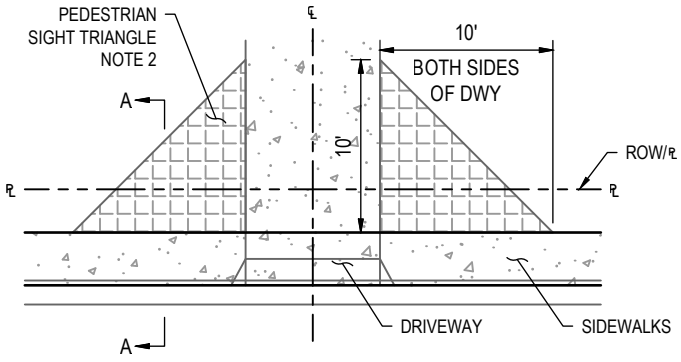


SECTION A-A

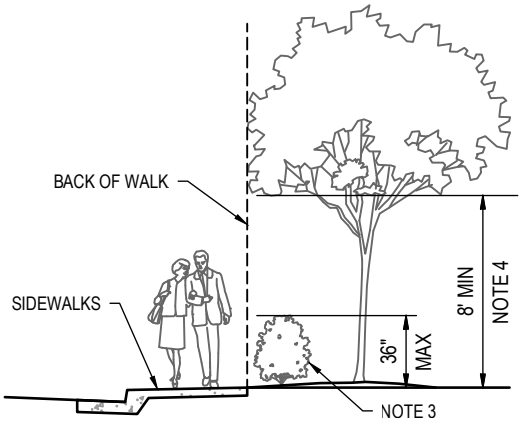
DEPARTMENT OF PUBLIC WORKS
SIGHT TRIANGLE (CORNERS)

DATE
8/17/2022~~8/6~~

SHEET
A-6A



DRIVEWAY PLAN
PEDESTRIAN SAFETY



SECTION A-A

NOTES:

1. THIS DRAWING IS A GUIDELINE. CASES NOT ADDRESSED BY THIS SHEET OR SMMC CHAPTER 27.84 SHALL REQUIRE PUBLIC WORKS DIRECTOR APPROVAL.
2. TRAFFIC SIGHT TRIANGLE SHALL BE MEASURED 10' FROM THE INTERSECTION POINT OUTSIDE EDGE OF THE PEDESTRIAN PATH OF TRAVEL AND THE DRIVEWAY AS SHOWN ABOVE. FOR ZERO-LOT LINE PROJECTS, THIS SIGHT TRIANGLE MAY BE REDUCED OR WAIVED IF ALTERNATIVE PEDESTRIAN SAFETY MEASURES ARE PROVIDED AND APPROVED BY THE PUBLIC WORKS DIRECTOR.
3. VEGETATION, FENCES, OR OTHER STRUCTURES SHALL BE NO TALLER THAN 36" ABOVE THE CURB WITHIN TRAFFIC SIGHT TRIANGLE OR PEDESTRIAN SIGHT TRIANGLE.
4. TREES SHALL BE TRIMMED BACK TO THE TRUNK AT LEAST 8' ABOVE THE CURB.
5. THE FOLLOWING ARE EXEMPT FROM THESE RESTRICTIONS:
   A. UTILITY POLES
   B. CITY SIGNAGE, SIGNALS, AND SIGNAL EQUIPMENT

CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
SIGHT TRIANGLE (DRIVEWAYS)

DATE
8/17/2022

SHEET
A-6B

STREET IMPROVEMENT NOTES:

SAWCUTS: SHALL BE FULL DEPTH AND PERFORMED AFTER A USA TICKET (811) HAS BEEN CALLED. SAWCUTTING IN CONCRETE SHALL ONLY BE PERFORMED AT EXISTING JOINTS.

SUBGRADE: SHALL BE COMPACTED TO 90% RELATIVE COMPACTION WITHIN LIMITS OF CONCRETE SIDEWALK AND CURB RAMPS; EVERYWHERE ELSE, INCLUDING AREAS BENEATH CONCRETE AND ASPHALT, SHALL BE COMPACTED TO 95% RELATIVE COMPACTION. WHERE UNSUITABLE SUBGRADE MATERIAL IS ENCOUNTERED, REMEDIAL WORK SHALL BE DONE, INCLUDING BUT NOT LIMITED TO, OVER-EXCAVATING AND REPLACING WITH CLASS II AGGREGATE BASE. IF SITE CONDITIONS PREVENT ACHIEVING THE REQUIRED RELATIVE COMPACTION, A FABRIC MAY BE USED IF APPROVED BY THE PUBLIC WORKS DIRECTOR.

BASE: BASE MATERIAL UNDER CONCRETE OR ASPHALT SHALL MEET CLASS II AGGREGATE BASE STANDARDS. THOROUGHLY WET BASE PRIOR TO PLACING CONCRETE.

CONCRETE: SHALL MEET CALTRANS CLASS A 6-SACK MIX WITH ¾" TO 1" AGGREGATE AND MINIMUM 3,000 PSI. ADD ½ TO ¾ POUNDS BY WEIGHT OR 1 PINT BY VOLUME OF LAMPBLACK PER CUBIC YARD OF CONCRETE MIX. MAX SLUMP OF 4". NO ADMIXTURES WITHOUT APPROVAL OF THE PUBLIC WORKS DIRECTOR. CURE VIA THE IMPERVIOUS MEMBRANE METHOD. BROOM FINISH ALL SURFACES AND PERPENDICULAR TO PATH OF TRAVEL FOR SIDEWALKS. UNDERMINING EXISTING CONCRETE IS NOT ALLOWED.

FORMS: FACES SHALL NOT VARY FROM THE PLAN DIMENSIONS BY MORE THAN 0.02 FEET. FORMS SHALL MEET GRADE. ALL FORMWORK SHALL BE INSPECTED BY PUBLIC WORKS PRIOR TO PLACING CONCRETE.

EXPANSION JOINTS: SHALL BE FULL DEPTH OF THE CONCRETE WITH A ½" THICK FULL-DEPTH ASPHALTIC FIBER PLACED BETWEEN AND USING #4 X 24" SMOOTH DOWELS. EXPANSION JOINTS SHALL BE CONSTRUCTED AT A MAXIMUM OF 50' INTERVALS IN CONCRETE CURBS, GUTTERS, SIDEWALKS, RETURNS, DRIVEWAYS, AND AT COLD JOINTS. EXPANSION JOINT ASPHALTIC FIBER SHALL BE PLACED AROUND BASE OF UTILITY POLES AND HYDRANTS. FINISH CONCRETE ADJACENT TO EXPANSION JOINTS WITH AN EDGER TOOL.

CONTROL JOINTS: SHALL BE ½" DEEP AND ¼" WIDE WITH A CLEANLY ROUNDED EDGE. CONTROL JOINTS SHALL BE CONSTRUCTED AT A MAXIMUM OF 10' INTERVALS IN CONCRETE CURBS GUTTERS, SIDEWALKS, RETURNS, AND DRIVEWAYS.

SCORE JOINTS: SHALL BE ¼" DEEP AND ¼"WIDE WITH A CLEANLY ROUNDED EDGE. SCORE JOINTS SHALL BE PLACED STRAIGHT AND UNIFORMLY SPACED BETWEEN CONTROL JOINTS ON SIDEWALKS. SCORE JOINTS SHALL NOT EXCEED 30" INTERVALS TRANSVERSELY OR 36" INTERVALS LONGITUDINALLY.

DOWELS: INSTALL (DRILL & EPOXY) #4 X 24" DOWELS AT EXPANSION JOINTS AND WHERE CONNECTING NEW TO EXISTING SIDEWALK. CENTER DOWELS BETWEEN CONTROL AND SCORE JOINTS FOR 3' OR SMALLER SIDEWALK PANELS, OR TWO EVEN-SPACED DOWELS FOR 3' TO 5' PANELS.

ASPHALT: SHALL BE PLACED AS ½" TYPE A HOT-MIX ASPHALT ("HMA") PER CURRENT CALTRANS STANDARD SPECIFICATIONS (15% RAP MAX). HMA MATCHING EXISTING PAVEMENT THICKNESS OR 4" MINIMUM, WHICHEVER IS GREATER, SHALL BE USED IN STREETS. TACK COAT ALL ASPHALT AND CONCRETE EDGES AND SURFACES PRIOR TO HMA PLACEMENT. ASPHALT PAVEMENT RESTORATION SHALL BE MADE FLUSH WITH THE ADJACENT SURFACES AT CONFORMS AND EDGES WITH A MAXIMUM TOLERANCE OF ⅛". ALL FINISHED EDGES SHALL BE SEALED. RUBBERIZED ASPHALT (RHMA) SHALL BE REQUIRED WHERE BEING REPLACED AND CONFORM TO CURRENT CALTRANS STANDARD SPECIFICATIONS. ASPHALT PAVEMENT CROSS SLOPES FROM CROWN TO LIP OF GUTTER SHALL BE 2% MIN AND 5% MAX.

AC PLUG: WHERE NEW CONCRETE IS BEING POURED ADJACENT TO EXISTING AC PAVEMENT, A 12" MINIMUM WIDE BAND OF AC PAVEMENT SHALL BE REMOVED AND REPLACED FOR THE FULL DEPTH (6" MINIMUM / 12" MAXIMUM) OF THE EXISTING AC PAVEMENT.

SIDEWALKS: RUNNING SLOPE SHALL NOT EXCEED STREET SLOPE. CROSS SLOPE SHALL BE DESIGNED FOR A MAXIMUM 1.5% AND CONSTRUCTED TO BE LESS THAN 2.0%. UNDERMINING IS NOT ALLOWED.

GUTTERS: STANDARD GUTTER WIDTH SHALL BE 24". NEW CONSTRUCTION SHALL INSTALL NEW GUTTERS OR REPLACE EXISTING GUTTERS WITH THE STANDARD 24". MINOR PROJECTS PERFORMING REPAIRS ONLY MAY MATCH THE EXISTING GUTTER WIDTH. GUTTER WIDTH TRANSITIONS SHALL BE 6' MINIMUM. MAXIMUM GUTTER SLOPE FROM PAVEMENT TO FLOWLINE SHALL BE 5%. UNDERMINING IS NOT ALLOWED.

STRIPING: ALL TRAFFIC STRIPING AND MARKINGS SHALL BE HOT-APPLIED THERMOPLASTIC PAINT WITH GLASS BEADING (AASHTO M247 TYPE 2). PREFORMED THERMOPLASTIC SHALL ONLY BE ALLOWED FOR STRIPING RESTORATION FOR TRENCH RESTORATIONS.

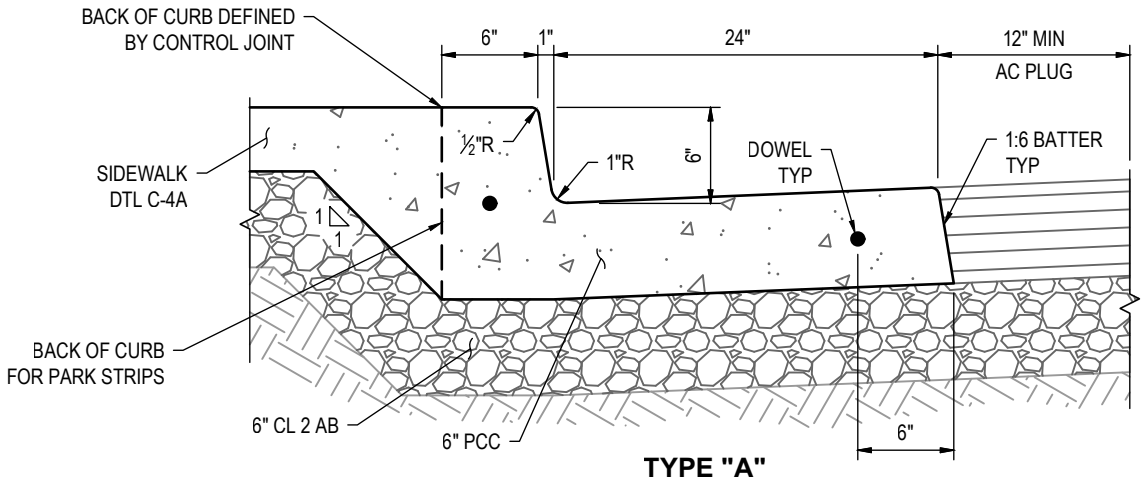
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

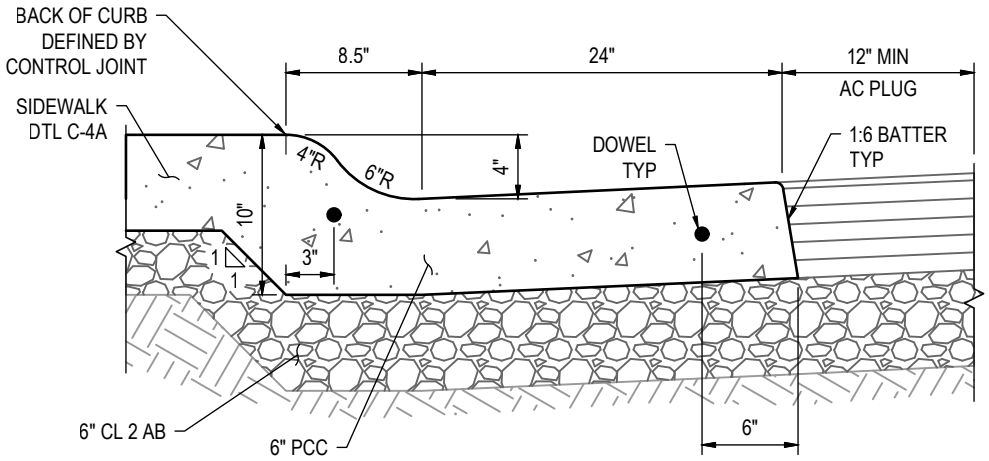
STREET IMPROVEMENT STANDARD NOTES

DATE
8/17/2022

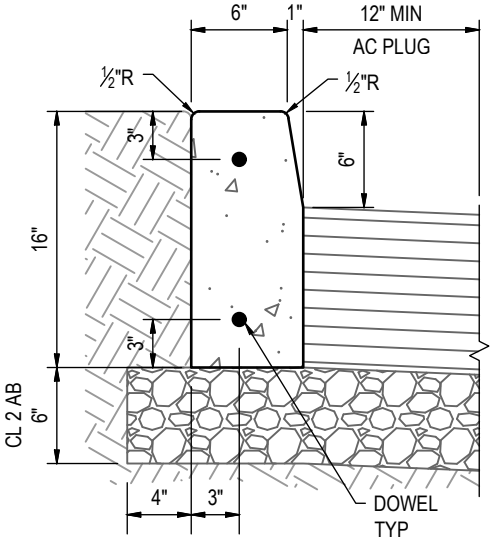
SHEET
C-1



TYPE "A"
CURB & GUTTER



TYPE "B"
ROLLED CURB & GUTTER



TYPE "C"
VERTICAL CURB

NOTES:

1. REFER TO DETAIL C-1 FOR ALL CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
2. NEW CONSTRUCTION SHALL USE TYPE A OR C ONLY. TYPE B SHALL ONLY BE USED TO REPLACE DAMAGED EXISTING ROLLED CURBS.
3. EXPANSION, CONTROL, AND SCORE JOINTS SHALL BE PLACED PER SPECIFICATIONS ON CITY DETAIL C-1.
4. GUTTER SHALL BE SLOPED TOWARD THE CURB A MINIMUM 2% OR MAXIMUM 5%.
5. PROVIDE AND INSTALL DOWELS AS SHOWN AT EXPANSION JOINTS AND WHERE CONNECTING NEW TO EXISTING CONCRETE.
6. AC PLUG SHALL BE PROVIDED WHEREVER CURB AND GUTTER ARE INSTALLED ADJACENT TO EXISTING AC PAVEMENT.
7. NEW CONCRETE SHALL CONFORM TO EXISTING AT THE NEAREST JOINT UNLESS APPROVED OTHERWISE.
8. TRANSITIONS BETWEEN DIFFERENT CURB TYPES SHALL BE 5-FT IN LENGTH.
9. AGGREGATE BASE SHALL BE PLACED, COMPACTED, AND EXTEND 1' BEYOND LIP OF GUTTER PRIOR TO FORMING AND POURING CONCRETE.
10. FOR REPAIR OR REPLACEMENT, CURB AND GUTTER SHALL BE POURED MONOLITHIC AND ACROSS THE FULL WIDTH TO EDGE OF ASPHALT.

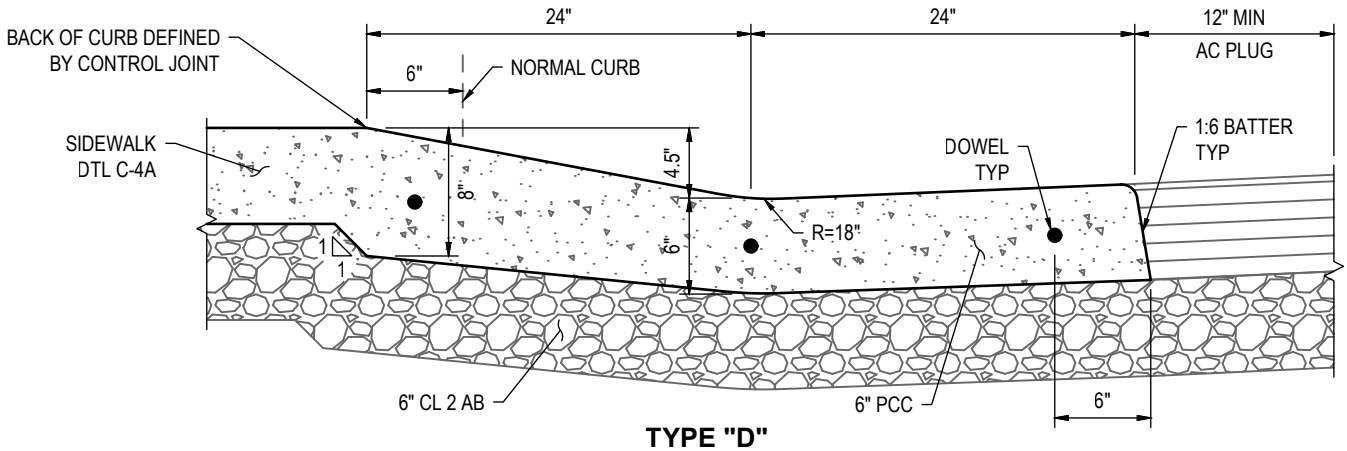
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

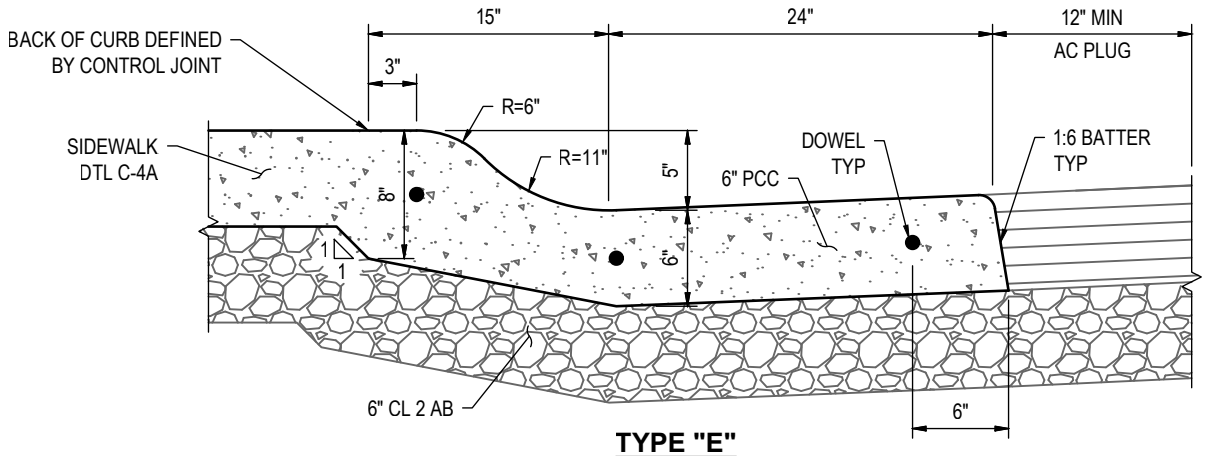
STANDARD CURB AND GUTTER

DATE
~~8/17/2022~~ 8/16/2026

SHEET
C-2A



TYPE "D"
SPECIAL CURB & GUTTER



TYPE "E"
SPECIAL CURB & GUTTER

NOTES:

1. TYPE C AND D CURBS AND GUTTERS REQUIRE APPROVAL FROM THE PUBLIC WORKS DIRECTOR WHO MAY ALLOW THEM TO BE INSTALLED WHERE CURRENTLY EXISTS, FOR FIRE LANE ACCESS, OR OTHER LOCATIONS AS SPECIFIED OR REQUIRED BY THE PUBLIC WORKS DIRECTOR.
2. REFER TO DETAIL C-1 FOR ALL CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
3. EXPANSION, CONTROL, AND SCORE JOINTS SHALL BE PLACED PER SPECIFICATIONS ON CITY DETAIL C-1.
4. GUTTER SHALL BE SLOPED TOWARD THE CURB A MINIMUM 2% OR MAXIMUM 5%.
5. PROVIDE AND INSTALL DOWELS AS SHOWN AT EXPANSION JOINTS AND WHERE CONNECTING NEW TO EXISTING CONCRETE.
6. AC PLUG SHALL BE PROVIDED WHEREVER CURB AND GUTTER ARE INSTALLED ADJACENT TO EXISTING AC PAVEMENT.
7. NEW CONCRETE SHALL CONFORM TO EXISTING AT THE NEAREST JOINT UNLESS APPROVED OTHERWISE.
8. TRANSITIONS BETWEEN DIFFERENT CURB TYPES SHALL BE 5-FT IN LENGTH.
9. AGGREGATE BASE SHALL BE PLACED, COMPACTED, AND EXTEND 1' BEYOND LIP OF GUTTER PRIOR TO FORMING AND POURING CONCRETE.
10. FOR REPAIR OR REPLACEMENT, CURB AND GUTTER SHALL BE POURED MONOLITHIC AND ACROSS THE FULL WIDTH TO EDGE OF ASPHALT.

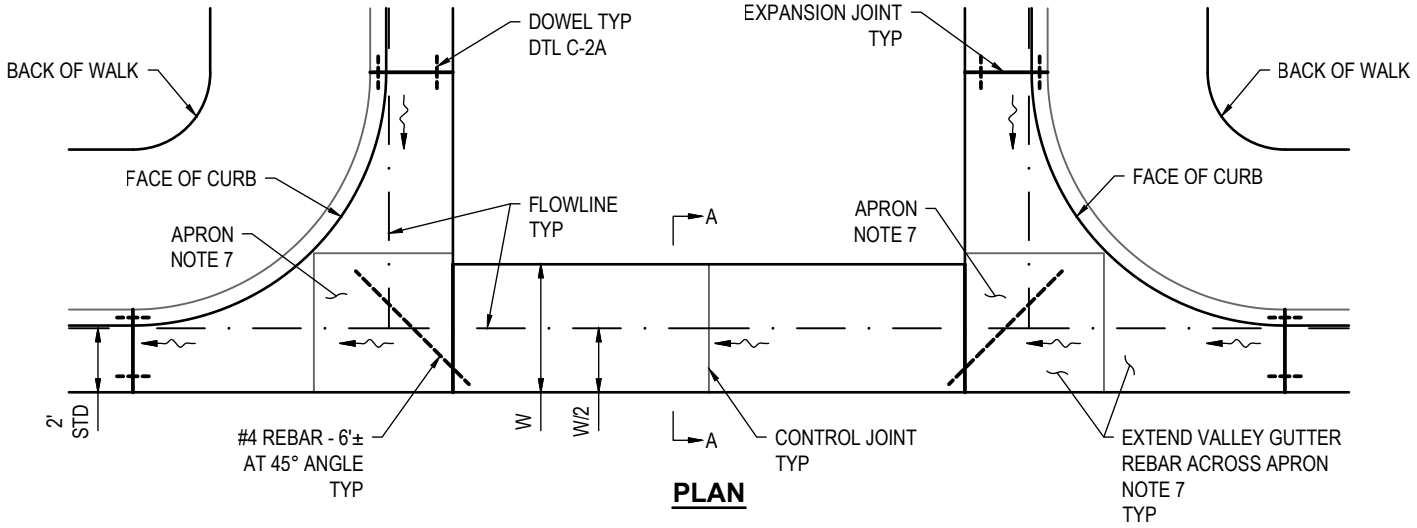
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

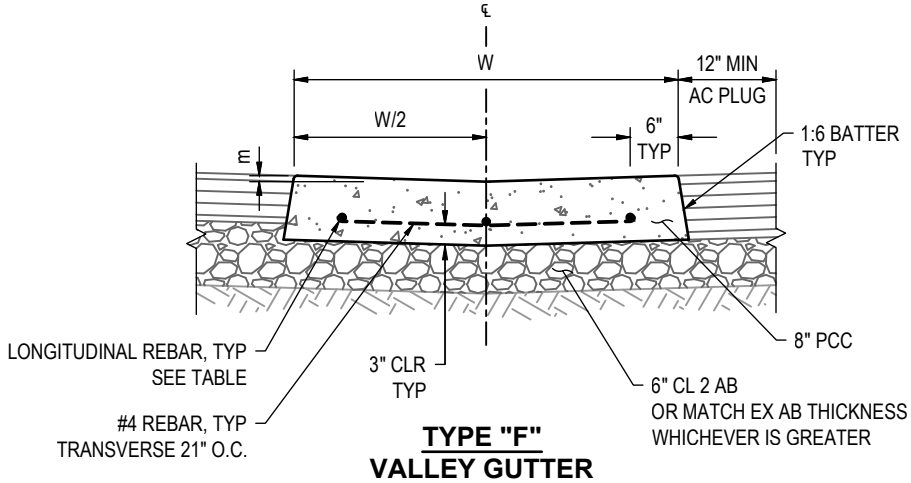
SPECIAL CURB AND GUTTER

DATE
8/17/2022~~8/1/2006~~

SHEET
C-2B



PLAN



TYPE "F"
VALLEY GUTTER
SECTION A-A

NOTES:

1. VALLEY GUTTERS REQUIRE APPROVAL BY THE PUBLIC WORKS DIRECTOR.
2. REFER TO DETAIL C-1 FOR ALL CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
3. VALLEY GUTTERS SHALL NOT BE INSTALLED WHERE LONGITUDINAL SLOPE EXCEEDS 6%.
4. SLOPE GUTTER TO FLOWLINE. CROSS SLOPE SHALL NOT EXCEED 4%.
5. EXPANSION JOINTS SHALL BE PLACED AS SHOWN AND AT 50' MAX INTERVALS WITH ½"X12" SLIP DOWELS.
6. CONTROL JOINTS SHALL BE PLACED CENTER BETWEEN EXPANSION JOINTS OR AT MAXIMUM 10' INTERVALS.
7. PROVIDE #4 REBAR 21" O.C. E.W. IN APRON. GUTTER REBAR SHALL EXTEND ACROSS THE APRON.
8. WHERE INSTALLING NEW VALLEY GUTTER ADJACENT TO EXISTING PAVEMENT, A 12" MIN WIDE AC PLUG SHALL BE PROVIDED.
9. GUTTER FLOW ARROWS SHOWN ON THE PLAN ARE FOR EXAMPLE ONLY. DESIGN FLOWLINE SHALL FLOW TOWARD A CITY STORM DRAIN FACILITY AND SHALL NOT HAVE PONDING WITHIN THE GUTTER.

VALLEY GUTTER SPECS			
CONCRETE		LONGITUDINAL REBAR	
W	m	#4 REBAR	EQUAL SPACING
(FT)	(IN)	COUNT	(IN)
4	3/4	3	21
6	1	3	33
8	1 1/2	4	30

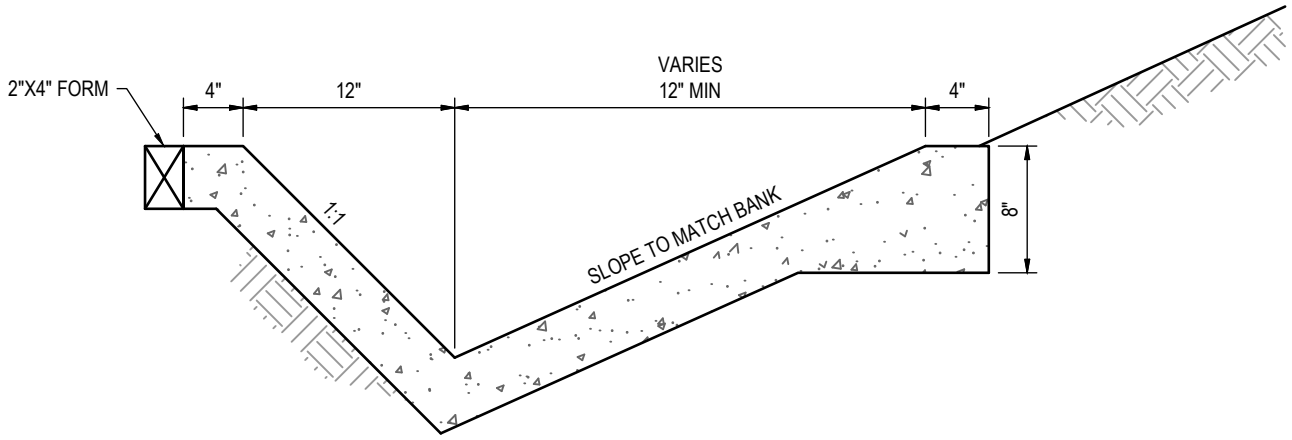
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

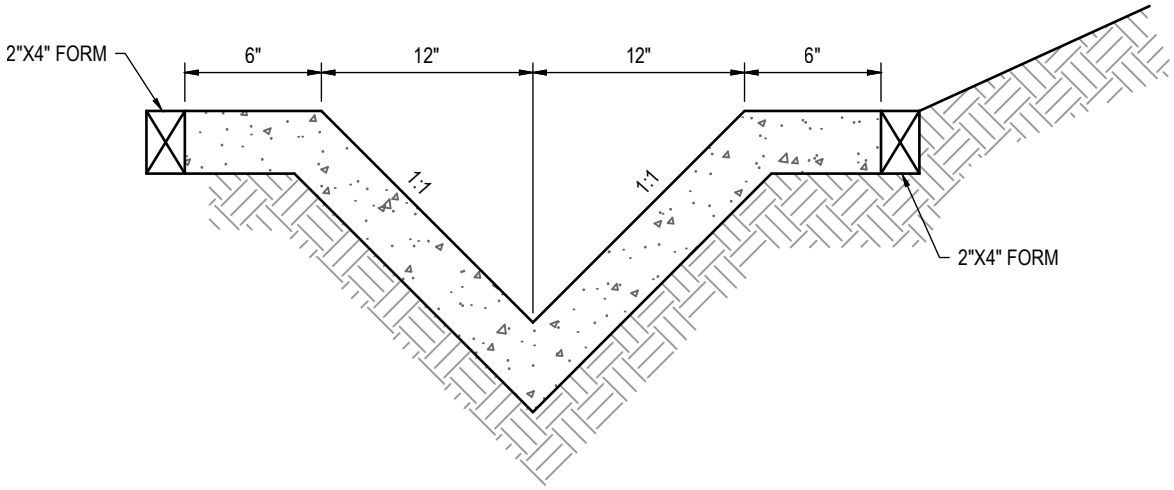
VALLEY GUTTER

DATE
8/17/2022

SHEET
C-2C



TYPE "A" CONCRETE LINED DITCHES



TYPE "B" CONCRETE LINED DITCHES

NOTES:

1. REFER TO DETAIL C-1 FOR ALL CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
2. ALL SECTIONS SHALL BE AT LEAST 4" THICK.
3. CONCRETE SHALL BE CLASS "B" (5 SACK).
4. BOTH SIDES OF THE DITCH SHALL BE FORMED WITH 2"x4" LUMBER AS SHOWN.
5. DITCH SIDES SHALL BE BACKFILLED AND COMPACTED IMMEDIATELY AFTER THE REMOVAL OF SIDE FORMS.
6. NO CONCRETE SHALL BE PLACED PRIOR TO FORM INSPECTION BY THE ENGINEER.
7. NO DITCH IS TO BE CONSTRUCTED ON FILLED GROUND PRIOR TO CERTIFICATION OF THE FILL BY THE GEOTECHNICAL ENGINEER.
8. NO EXPANSION JOINTS SHALL BE REQUIRED.

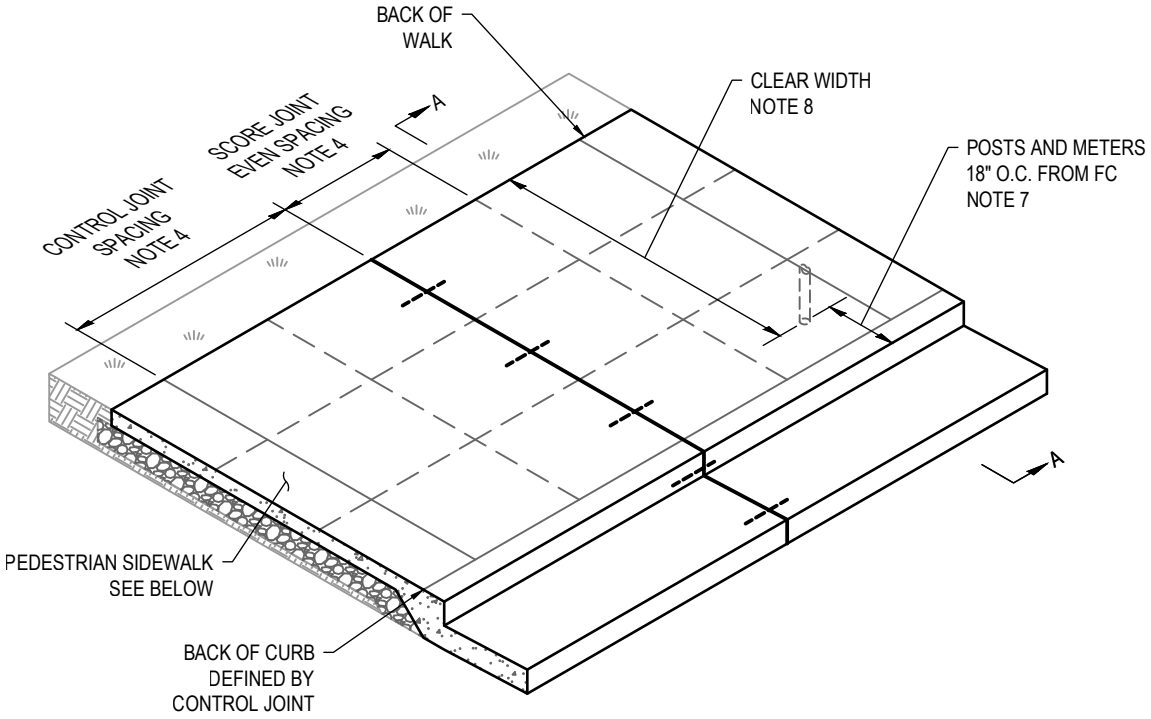
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

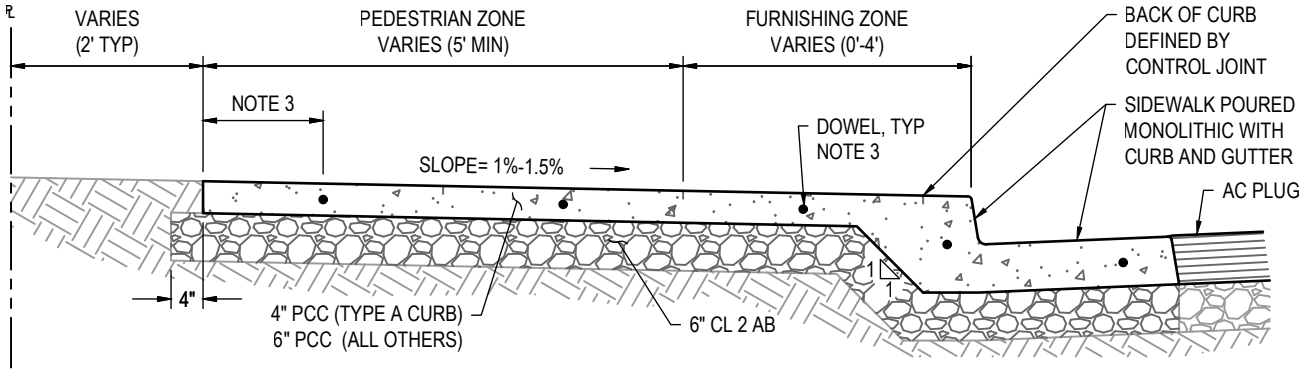
DITCHES

DATE
8/17/2006

SHEET
C-3



ISOMETRIC VIEW



SECTION A-A

NOTES:

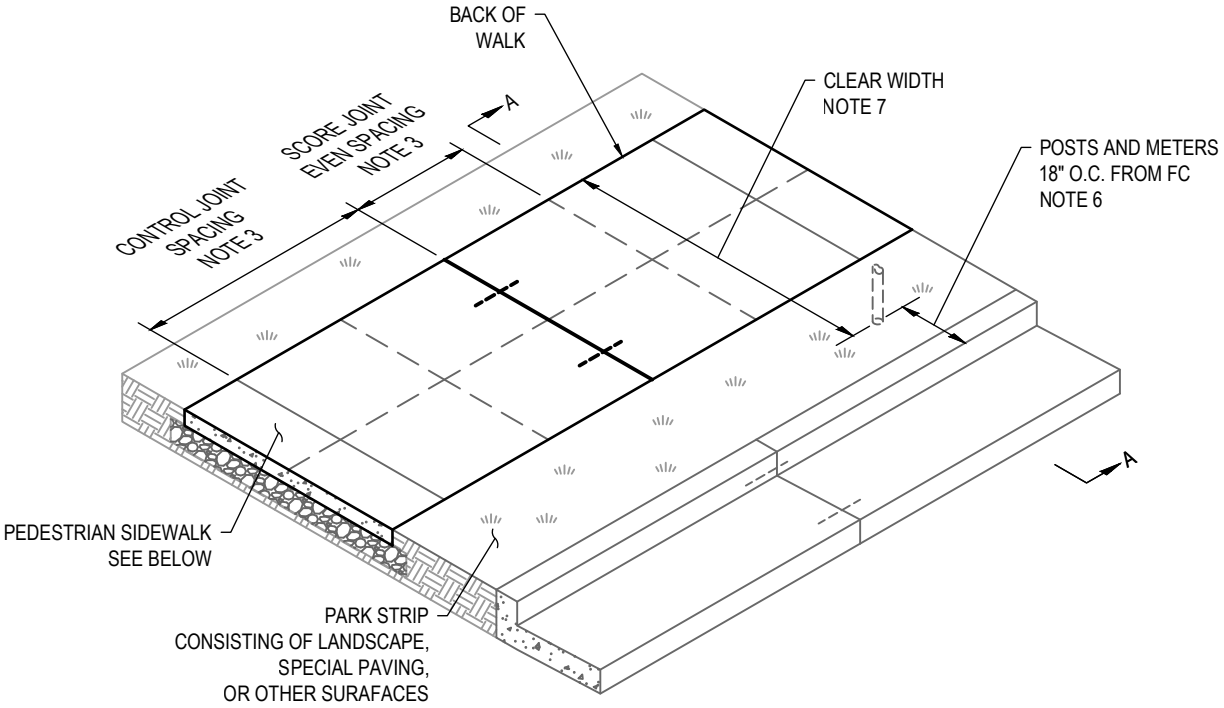
1. REFER TO DETAIL C-1 FOR ALL CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
2. SIDEWALKS SHALL BE POURED MONOLITHIC WITH CURBS AND GUTTERS.
3. INSTALL DOWELS AT EXPANSION JOINTS. CENTER DOWELS BETWEEN CONTROL AND SCORE JOINTS FOR 3' OR SMALLER PANELS, OR TWO EVEN-SPACED DOWELS FOR 3' TO 5' PANELS.
4. EXPANSION, CONTROL, AND SCORE JOINTS SHALL BE PLACED PER SPECIFICATIONS ON CITY DETAIL C-1.
5. NEW CONCRETE SHALL CONFORM TO EXISTING SIDEWALK AT THE NEAREST JOINT.
6. WHERE EXISTING SIDEWALK WIDTHS ARE LESS THAN THE MINIMUM 5', PROVIDE A SIDEWALK WIDTH TRANSITION OF ONE PANEL LENGTH.
7. POSTS FOR SIGNAGE, PEDESTRIAN PUSH BUTTONS, OR PARKING METERS SHALL BE SET 18" ON CENTER FROM THE FACE OF CURB. ALL OTHER VERTICAL OBSTRUCTIONS SHALL PROVIDE 18" MIN CLEARANCE TO FACE OF CURB.
8. THE CLEAR WIDTH PEDESTRIAN PATH OF TRAVEL AT LOCATIONS OF VERTICAL OBSTRUCTIONS SHALL BE A MINIMUM OF 32" CLEARANCE FOR A LENGTH NOT GREATER THAN 24".
9. REFER TO CITY DETAIL C-4 FOR CONFORMING AT EXISTING SIDEWALK OR REPLACING EXISTING SIDEWALK.
10. SIDEWALK WIDTHS AT NEW DEVELOPMENT SHALL CONFORM TO THE CURRENT PEDESTRIAN MASTER PLAN.
11. UNDERMINING OF THE SIDEWALK, CURB, OR GUTTER IS NOT ALLOWED.

DEPARTMENT OF PUBLIC WORKS

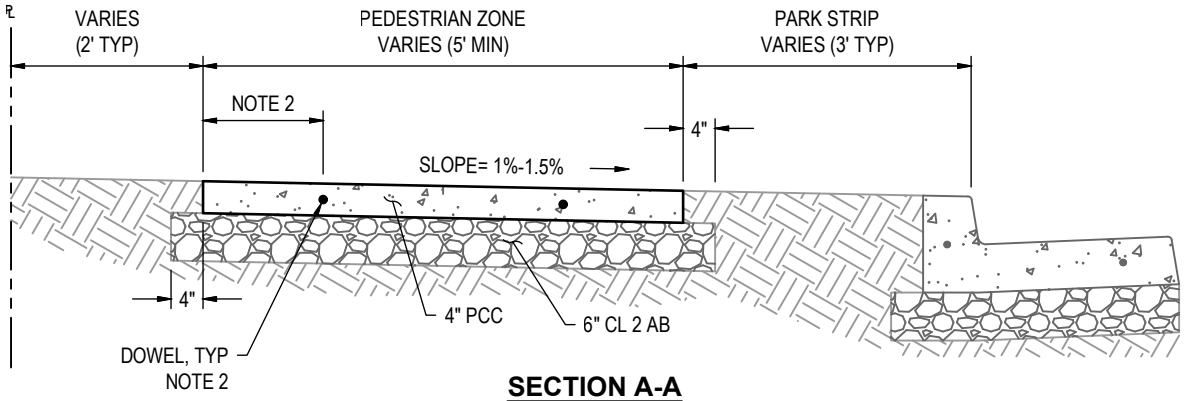
STANDARD SIDEWALK (MONOLITHIC)

DATE
8/17/2022

SHEET
C-4A



ISOMETRIC VIEW



SECTION A-A

NOTES:

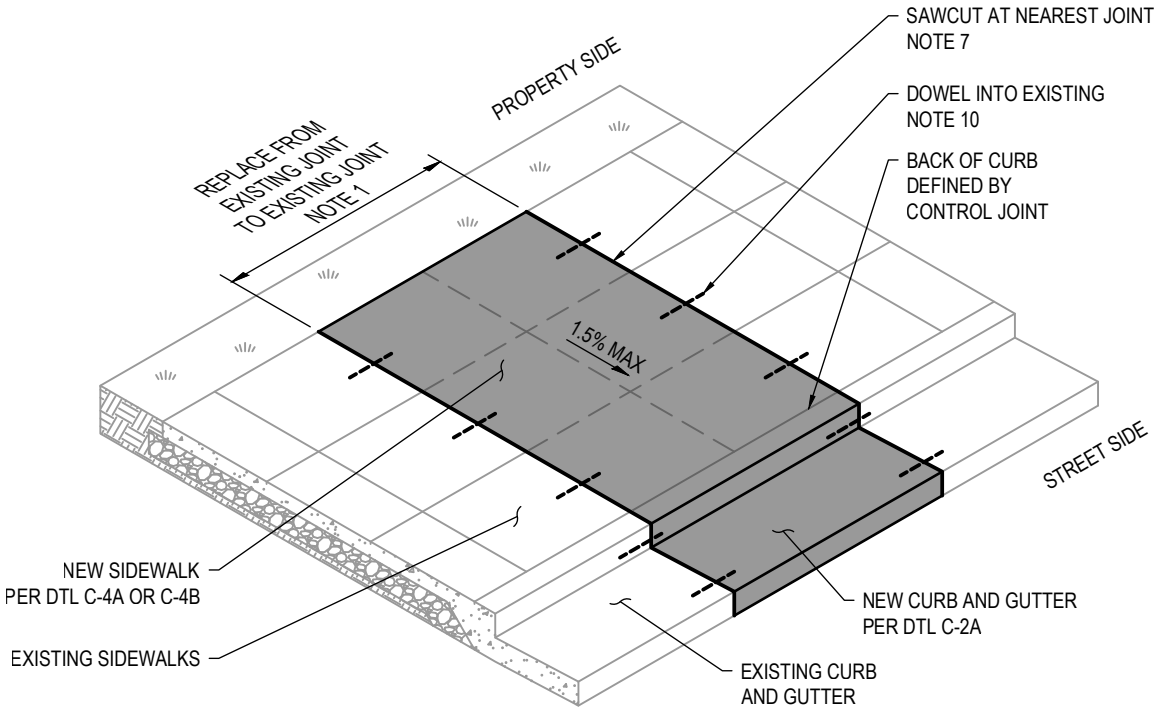
1. REFER TO DETAIL C-1 FOR ALL CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
2. INSTALL DOWELS AT EXPANSION JOINTS. CENTER DOWELS BETWEEN CONTROL AND SCORE JOINTS FOR 3' OR SMALLER PANELS, OR TWO EVEN-SPACED DOWELS FOR 3' TO 5' PANELS.
3. EXPANSION, CONTROL, AND SCORE JOINTS SHALL BE PLACED PER SPECIFICATIONS ON CITY DETAIL C-1.
4. NEW CONCRETE SHALL CONFORM TO EXISTING SIDEWALK AT THE NEAREST JOINT.
5. WHERE EXISTING SIDEWALK WIDTHS ARE LESS THAN THE MINIMUM 5', PROVIDE A SIDEWALK WIDTH TRANSITION OF ONE PANEL LENGTH.
6. POSTS FOR SIGNAGE, PEDESTRIAN PUSH BUTTONS, OR PARKING METERS SHALL BE SET 18" ON CENTER FROM THE FACE OF CURB. ALL OTHER VERTICAL OBSTRUCTIONS SHALL PROVIDE 18" MIN CLEARANCE TO FACE OF CURB.
7. THE CLEAR WIDTH PEDESTRIAN PATH OF TRAVEL AT LOCATIONS OF VERTICAL OBSTRUCTIONS SHALL BE A MINIMUM OF 32" CLEARANCE FOR A LENGTH NOT GREATER THAN 24".
8. REFER TO CITY DETAIL C-4 FOR CONFORMING AT EXISTING SIDEWALK OR REPLACING EXISTING SIDEWALK.
9. SIDEWALK WIDTHS AT NEW DEVELOPMENT SHALL CONFORM TO THE CURRENT PEDESTRIAN MASTER PLAN.

CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
STANDARD SIDEWALK (SEPARATED)

DATE
8/17/2022

SHEET
C-4B



ISOMETRIC VIEW

NOTES:

1. THIS DETAIL IS FOR SIDEWALK RESTORATION, REPLACEMENT, OR CONFORMING DUE TO MINOR CONSTRUCTION OR DAMAGE. RESTORATION OR REPLACEMENT LIMITS SHALL BE DETERMINED BY A PUBLIC WORKS INSPECTOR WITH 2 SIDEWALK PANELS AS THE MINIMUM WIDTH.
2. REFER TO DETAIL C-1 FOR ALL CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
3. FOR SIDEWALK REPAIR DUE TO WEATHERING CRACKING, TREE UPHEAVAL, OR ADA NON-COMPLIANCE, THEN A SINGLE PANEL MAY BE REPAIRED INDIVIDUALLY.
4. NO PARTIAL PANEL REPAIRS ALLOWED. SIDEWALK RESTORATION SHALL REPLACE THE ENTIRE SIDEWALK PANEL.
5. RESTORATION SHALL MATCH THE EXISTING SIDEWALK WIDTH UNLESS OTHERWISE REQUIRED BY THE PUBLIC WORKS DIRECTOR.
6. WHERE SIDEWALK IS ADJACENT TO CURB AND GUTTER, RESTORATION SHALL INCLUDE REPLACEMENT OF THE CURB AND GUTTER TO INSTALL AS MONOLITHIC SIDEWALK, CURB, AND GUTTER.
7. SAWCUTTING SHALL BE AT EXISTING SIDEWALK JOINTS. IF EXISTING CURB AND GUTTER JOINTS DO NOT ALIGN WITH THE SIDEWALK JOINTS, CONTINUE THE SAWCUT FROM THE SIDEWALK THROUGH THE GUTTER TO CREATE A NEW JOINT.
8. NEW SIDEWALK SHALL BE FLUSH WITH EXISTING SIDEWALK.
9. NEW GUTTER FLOWLINE SHALL BE FLUSH WITH EXISTING FLOWLINE.
10. DOWEL INTO EXISTING CONCRETE. WHERE EXISTING SIDEWALK THICKNESS IS LESS THAN 3", NEW SIDEWALK SHALL KEY INTO THE EXISTING SIDEWALK INSTEAD OF DOWELING IN.
11. UNDERMINING EXISTING CONCRETE SHALL NOT BE ALLOWED.
12. IN THE DOWNTOWN AREA: RESTORATION SHALL BE A FULL PANEL (BRICK LINE TO BRICK LINE) OR AS DIRECTED BY THE PUBLIC WORKS INSPECTOR IN THE FIELD. SIDEWALK PATTERN, MATERIAL, AND FINISH SHALL MATCH EXISTING UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DIRECTOR.

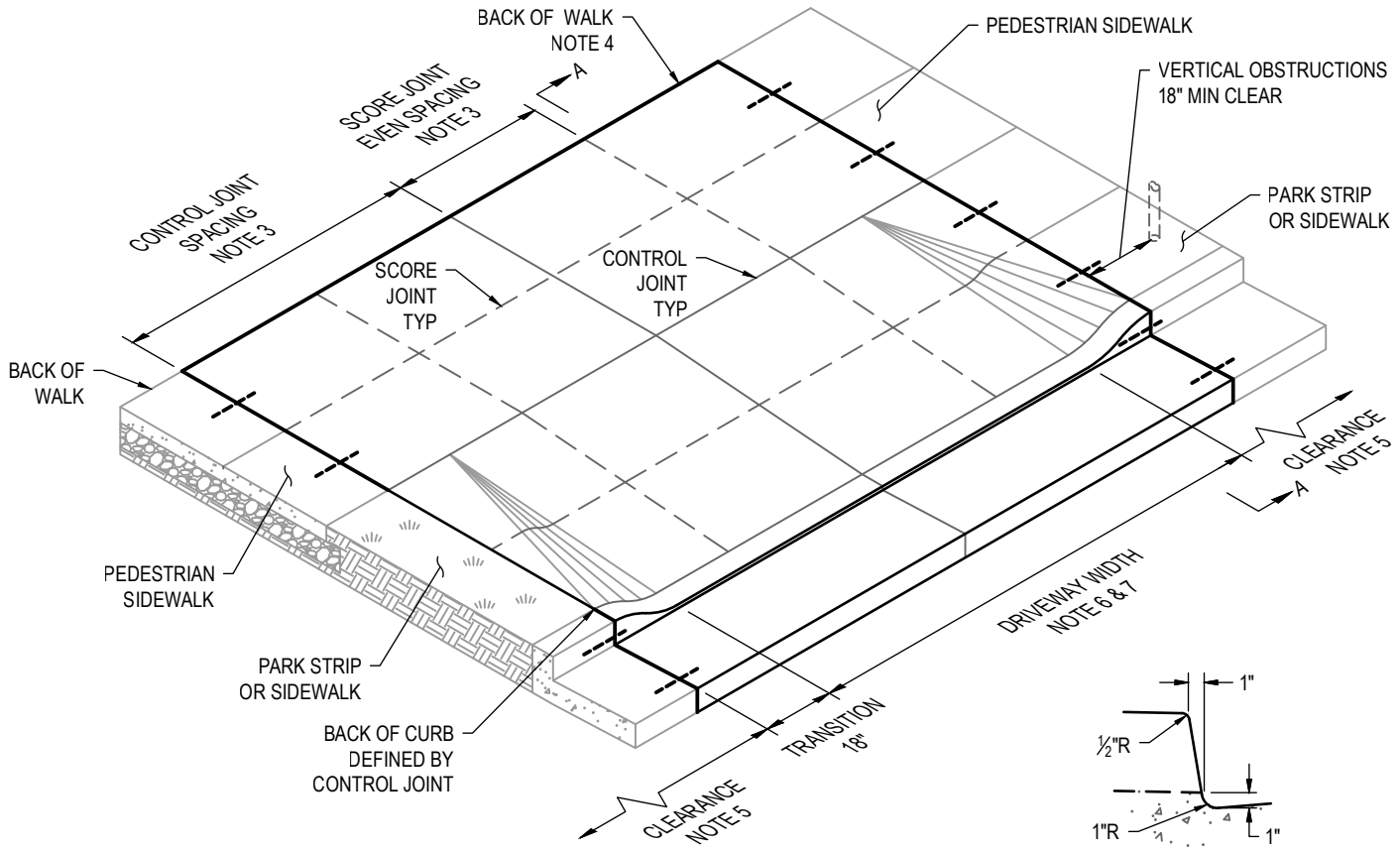
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

SIDEWALK RESTORATION

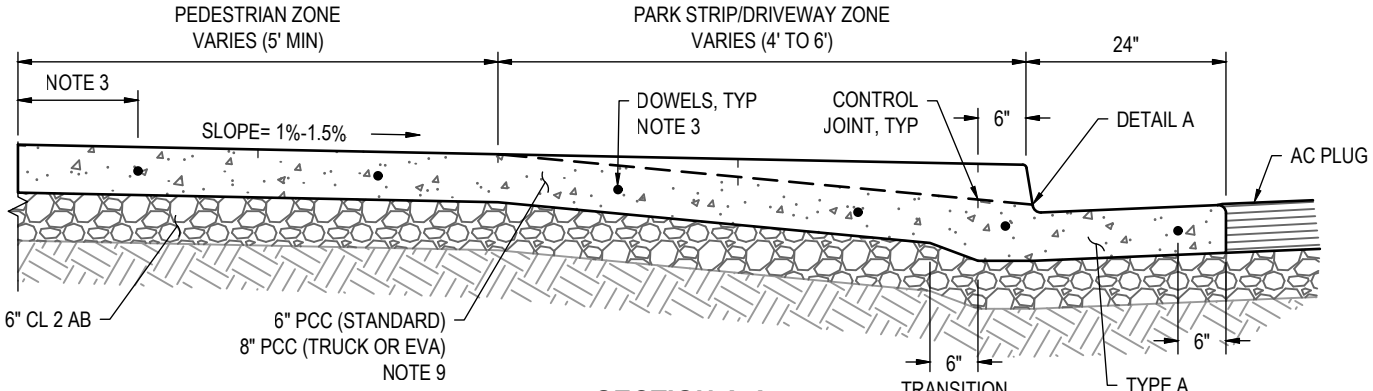
DATE
8/17/2022~~8/1/2016~~

SHEET
C-4C



ISOMETRIC VIEW

DETAIL A



SECTION A-A

NOTES:

1. REFER TO DETAIL C-1 FOR ALL CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
2. DRIVEWAY SHALL BE POURED MONOLITHIC WITH THE GUTTER.
3. EXPANSION, CONTROL, SCORE JOINTS, AND DOWELS SHALL BE PLACED PER SPECIFICATIONS ON CITY DETAIL C-1.
4. PROVIDE EXPANSION JOINT BETWEEN PUBLIC SIDEWALK AND PRIVATE DRIVEWAY.
5. DRIVEWAY EDGE MINIMUM CLEARANCES ARE 1' TO PARCEL LINE AND CURB INLETS, 5' TO FIRE HYDRANTS, 15' TO CURB RETURNS, AND 22' TO THE NEAREST DRIVEWAY SERVING THE SAME PARCEL UNLESS APPROVED OTHERWISE BY THE PUBLIC WORKS DIRECTOR.
6. DRIVEWAYS FOR SINGLE-FAMILY SHALL BE 10' TO 12' WIDE. PUBLIC WORKS DIRECTOR APPROVAL REQUIRED FOR UP TO 20' WIDE MAXIMUM.
7. DRIVEWAYS FOR NON-SINGLE-FAMILY SHALL BE 12' TO 26' WIDE.
8. NEW CONCRETE SHALL CONFORM TO EXISTING AT THE NEAREST JOINT.
9. DRIVEWAYS FOR TRUCK OR EVA SHALL BE 8" THICK PCC AND INCLUDE #4 REBAR AT 18" ON CENTER EACH WAY OR 6"X6" METAL WIRE MESH.

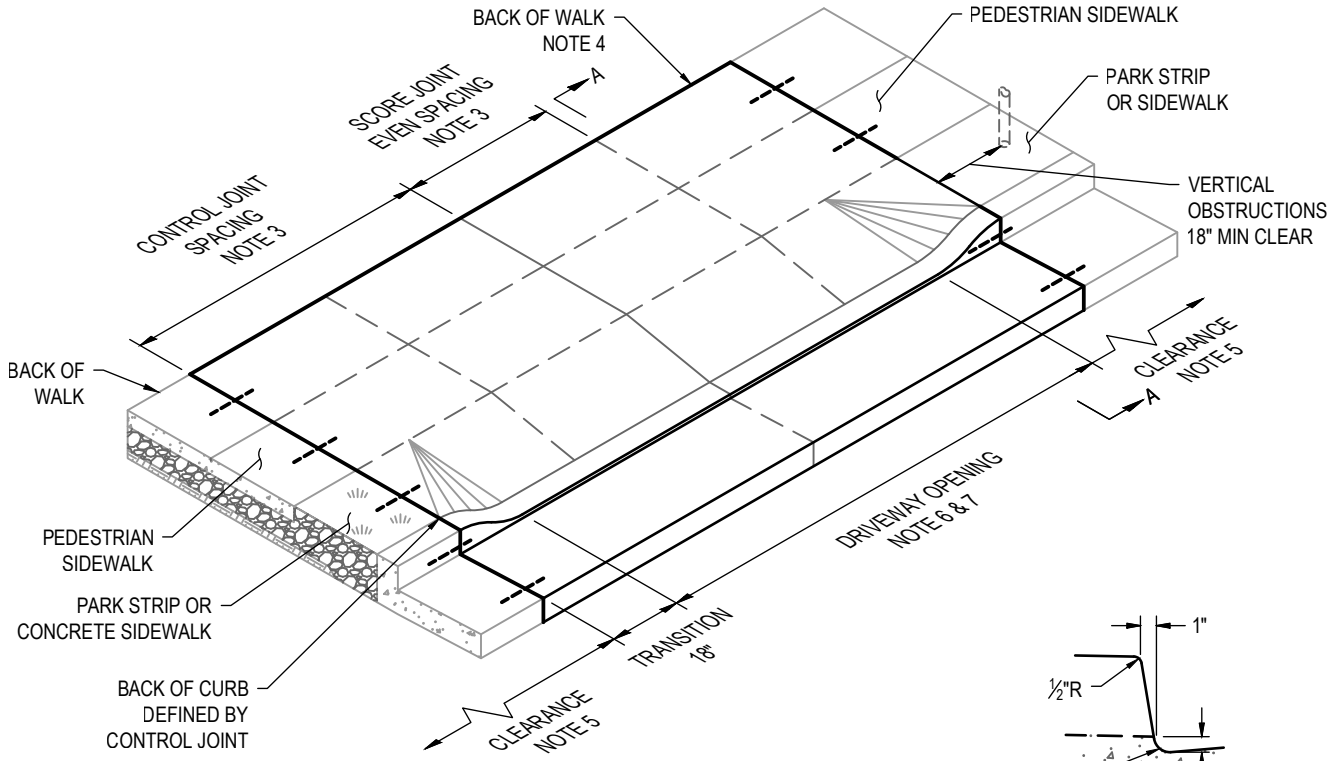
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

STANDARD DRIVEWAY

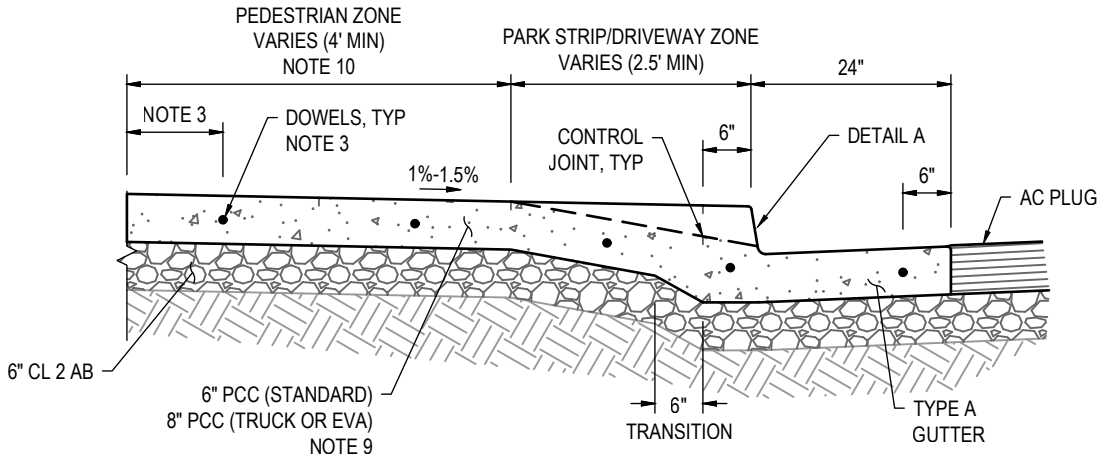
DATE
~~8/17/2012~~ 6/1/2026

SHEET
C-5A



ISOMETRIC VIEW

DETAIL A



SECTION A-A

NOTES:

1. REFER TO DETAIL C-1 FOR ALL CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
2. DRIVEWAY SHALL BE POURED MONOLITHIC WITH THE GUTTER.
3. EXPANSION, CONTROL, SCORE JOINTS, AND DOWELS SHALL BE PLACED PER SPECIFICATIONS ON CITY DETAIL C-1.
4. PROVIDE EXPANSION JOINT BETWEEN PUBLIC SIDEWALK AND PRIVATE DRIVEWAY.
5. DRIVEWAY EDGE MINIMUM CLEARANCES ARE 1' TO PARCEL LINE AND CURB INLETS, 5' TO FIRE HYDRANTS, 15' TO CURB RETURNS, AND 22' TO THE NEAREST DRIVEWAY SERVING THE SAME PARCEL UNLESS APPROVED OTHERWISE BY THE PUBLIC WORKS DIRECTOR.
6. DRIVEWAYS FOR SINGLE-FAMILY SHALL BE 10' TO 12' WIDE. PUBLIC WORKS DIRECTOR APPROVAL REQUIRED FOR UP TO 20' WIDE MAXIMUM.
7. DRIVEWAYS FOR NON-SINGLE-FAMILY SHALL BE 12' TO 26' WIDE.
8. NEW CONCRETE SHALL CONFORM TO EXISTING AT THE NEAREST JOINT.
9. DRIVEWAYS FOR TRUCK OR EVA SHALL BE 8" THICK PCC AND INCLUDE #4 REBAR AT 18" ON CENTER EACH WAY OR 6"X6" METAL WIRE MESH.
10. WHERE CONSTRAINED BY R.O.W. WIDTHS, REDUCE TO 36" MINIMUM WITH PUBLIC WORKS DIRECTOR APPROVAL.

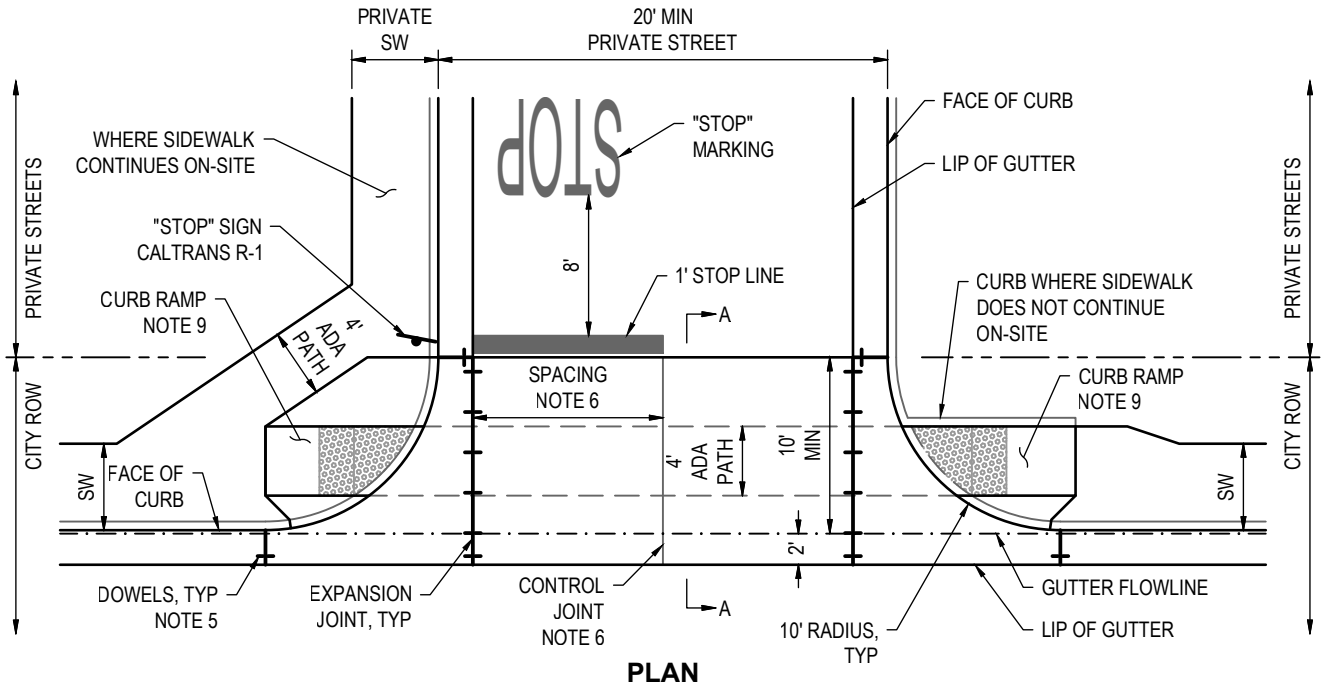
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

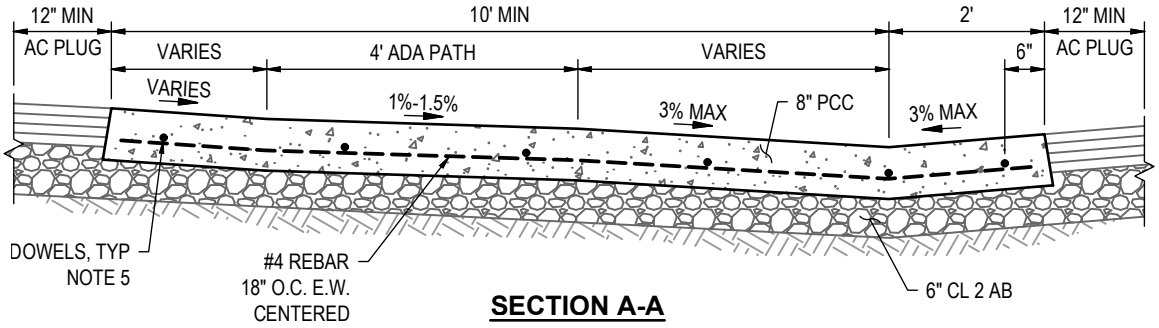
LIMITED ROW DRIVEWAY

DATE
~~8/1/2002~~ 8/6

SHEET
C-5B



PLAN



SECTION A-A

NOTES:

1. THIS PRIVATE DRIVEWAY DETAIL SHALL BE USED AS THE INGRESS/EGRESS INTERFACE BETWEEN PUBLIC RIGHT-OF-WAY AND PRIVATELY OWNED STREETS.
2. REFER TO DETAIL C-1 FOR ALL CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
3. PUBLIC ACCESS EASEMENT SHALL BE GRANTED AS REQUIRED TO ALLOW PUBLIC USE OF CURB RAMPS.
4. CONCRETE APRON CROSS SLOPES SHALL NOT EXCEED 4%.
5. EXPANSION JOINTS SHALL BE PLACED WITH ½"X12" SLIP DOWELS AT 30" O.C.
6. CONTROL JOINTS SHALL BE PLACED AT THE CENTERLINE OF THE DRIVEWAY OR 10' MAX INTERVALS.
7. BASE ROCK SHALL EXTEND 1' BEYOND LIP OF GUTTER PRIOR TO POURING CONCRETE.
8. WHERE INSTALLING NEW DRIVEWAY ON EXISTING STREETS, A 12" MIN WIDE AC PLUG SHALL BE PROVIDED.
9. CALTRANS CURB RAMP CASES A, C, G, CH AND CM ARE ACCEPTABLE CURB RAMP LAYOUTS.

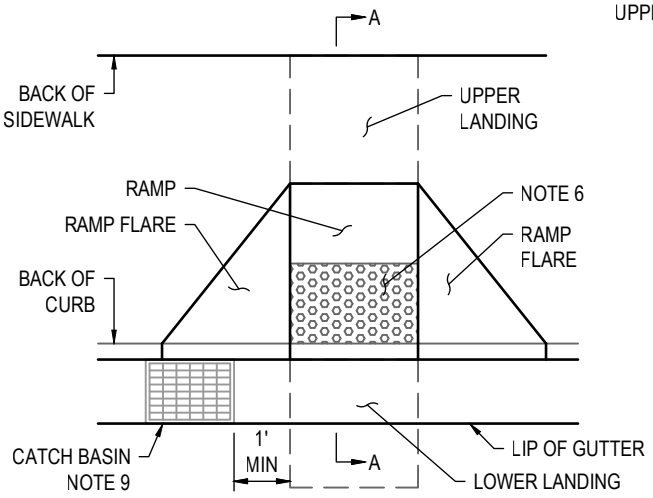
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

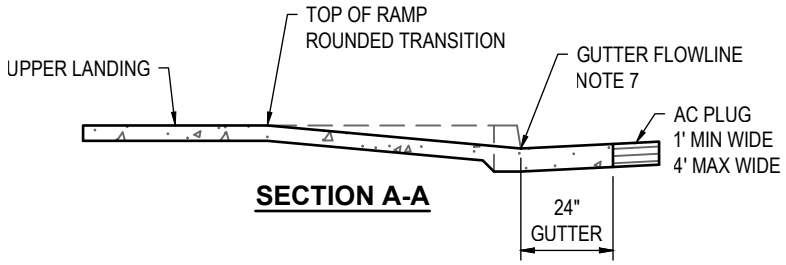
PRIVATE STREET ENTRANCE

DATE
8/17/2022

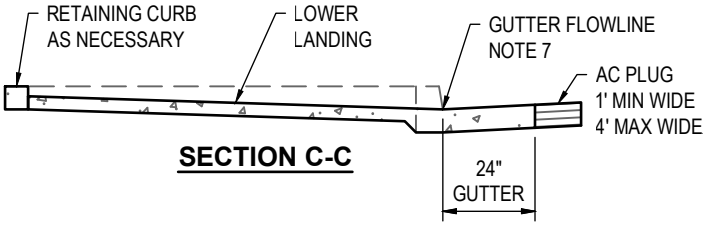
SHEET
C-5C



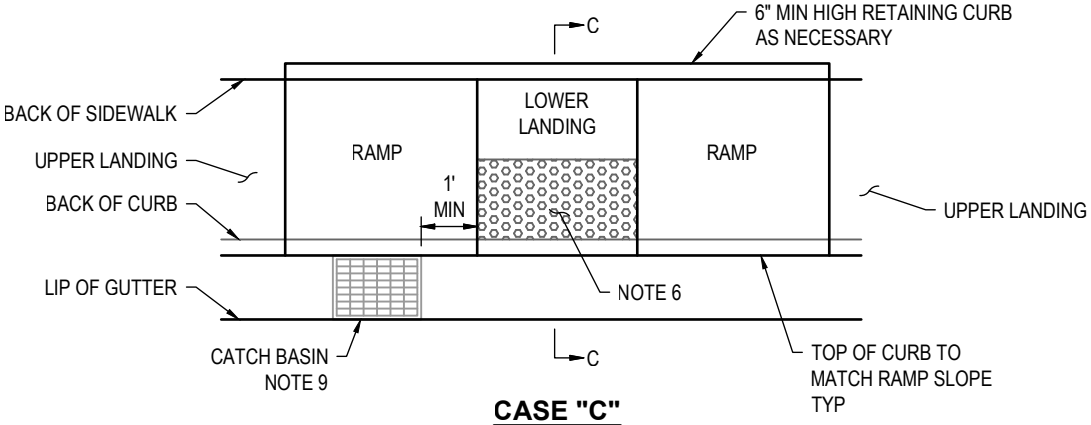
CASE "A"
STANDARD



SECTION A-A



SECTION C-C



CASE "C"
NARROW SIDEWALKS

NOTES:

1. ALL CITY CURB RAMPS ARE BASED ON CALTRANS STANDARD PLANS FOR CURB RAMPS. DESIGNS SHALL COMPLY WITH WHICHEVER STANDARD IS MORE STRICT. REFER TO CALTRANS STANDARD PLANS FOR ALL OTHER DETAILS RELATED TO CURB RAMPS.
2. CASE A SHALL BE USED FOR ALL RAMPS AND SHALL BE DIRECTIONAL. CASE C MAY BE USED ON SIDEWALKS WITH LIMITED WIDTH.
3. FOR ANY CASE UNABLE TO BE ADDRESSED BY THIS STANDARD OR THE CALTRANS STANDARD PLANS DUE TO PHYSICAL CONSTRAINTS, MODIFIED RAMPS ON DETAIL C-6B SHALL BE USED.
4. REFER TO DETAIL C-1 FOR ALL CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
5. SIDEWALK AND RAMP THICKNESS IS 4" MINIMUM AND CONSTRUCTED PER DETAIL C-4A.
6. DETECTABLE WARNING SURFACES SHALL BE CAST IN PLACE AND SHALL BE YELLOW COLOR #33538 OF FED-STD-595. NO UTILITY BOXES ALLOWED WITHIN THE DETECTABLE WARNING AREA.
7. THE BOTTOM OF THE RAMP SHALL BE FLUSH WITH THE GUTTER FLOWLINE.
8. WHERE INSTALLING RAMPS IN EXISTING STREETS, A (1' MINIMUM, 4' MAXIMUM) AC PLUG FOR THE FULL WIDTH OF THE RAMP SHALL BE PROVIDED.
9. CATCH BASINS SHALL BE RELOCATED OUTSIDE OF THE LOWER LANDING OF A RAMP WITH A MINIMUM 1-FT SEPARATION.
10. ANY SIGNAGE, SIGN POSTS, OR PAVEMENT STRIPING REMOVED DURING CONSTRUCTION OF CURB RAMPS SHALL BE REPLACED AND/OR REINSTALLED AS DIRECTED BY THE PUBLIC WORKS DIRECTOR.

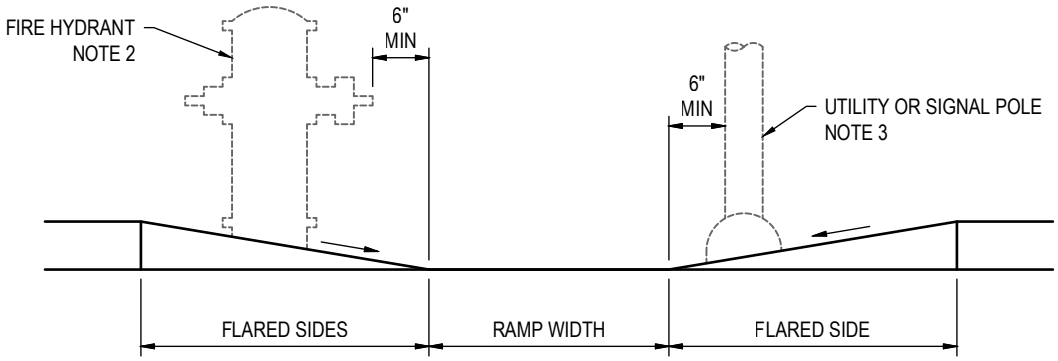
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

CURB RAMPS

DATE
MM/DD/YYYY

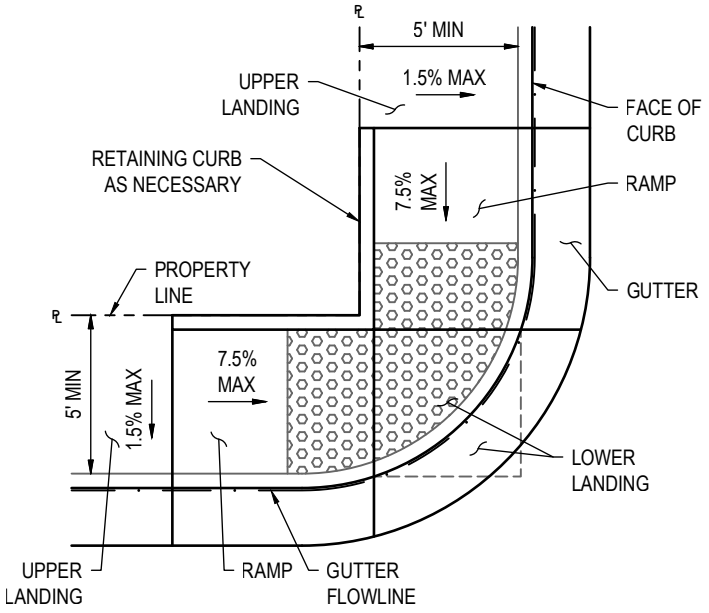
SHEET
C-6A



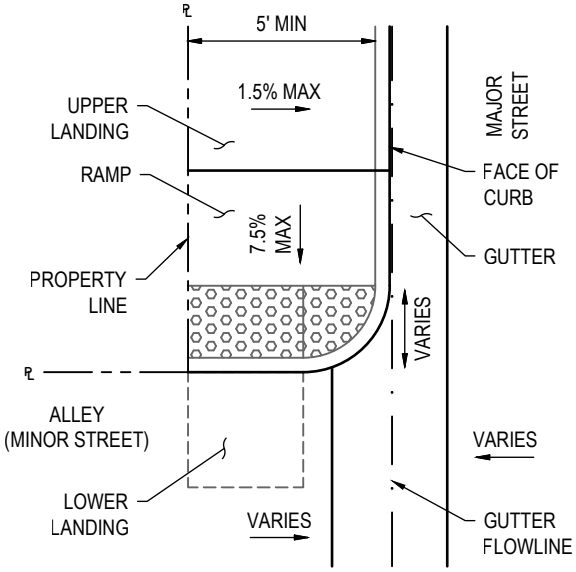
OBSTRUCTION CLEARANCES

RAMP OBSTRUCTION NOTES:

1. VERTICAL OBSTRUCTIONS SHALL NOT BE INSTALLED IN THE RAMP.
2. EXISTING OR NEW FIRE HYDRANTS MAY BE ALLOWED WITHIN RAMP FLARES WITH PUBLIC WORKS DIRECTOR APPROVAL.
3. NEW UTILITY AND SIGNAL POLES SHALL NOT BE INSTALLED IN NEW RAMP FLARES. EXISTING UTILITY AND SIGNAL POLES MAY BE ALLOWED WITHIN RAMP FLARES WITH PUBLIC WORKS DIRECTOR APPROVAL.
4. UTILITY BOXES SHALL NOT BE INSTALLED IN THE RAMP.



MERGED CURB RAMP



ALLEY CROSSING CURB RAMP

MODIFIED RAMP NOTES:

1. THESE MODIFIED RAMPS SHALL ONLY BE USED WHERE EXISTING CONSTRAINTS RESTRICT THE USE OF THE STANDARD CURB RAMPS FROM DETAIL C-6A. MODIFIED RAMPS REQUIRE SPECIAL APPROVAL FROM THE PUBLIC WORKS DIRECTOR.
2. REFER TO DETAIL C-6A FOR ADDITIONAL RAMP NOTES.
2. REFER TO DETAIL C-1 FOR ALL CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED ON THIS SHEET OR DETAIL C-6A.
3. LANDINGS SHALL HAVE 4'-2" MINIMUM WIDTH AND LENGTH AND BE DESIGNED TO 1.0%-1.5% CROSS SLOPE AND RUNNING SLOPE, EXCEPT WHERE STREET RUNNING SLOPE EXCEEDS 5% THEN THE UPPER LANDING SHALL BE DESIGNED AS LEVEL TO THE EXTENT FEASIBLE.
4. LOWER LANDINGS WITHIN THE ROADWAY, SUCH AS CASE A, SHALL HAVE 4'-2" MINIMUM WIDTH AND LEGTH AND BE DESIGNED TO 1.0%-1.5% CROSS SLOPE PARALLEL TO THE CURB AND 1.0%-4.5% MAX SLOPE PERPENDICULAR TO THE CURB.

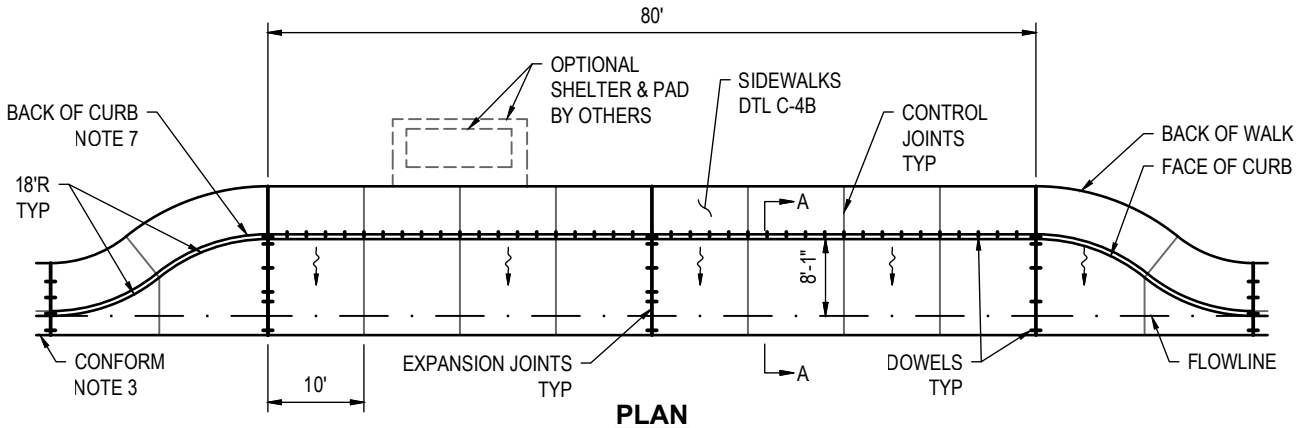
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

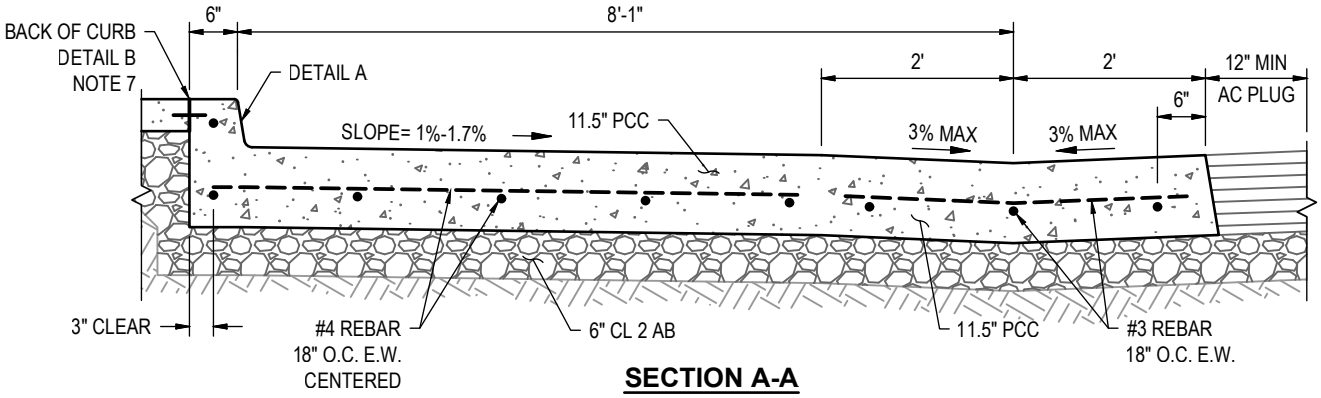
CURB RAMP CLEARANCES AND MODIFICATIONS

DATE
8/17/2022

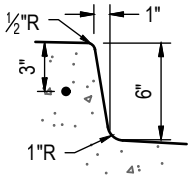
SHEET
C-6B



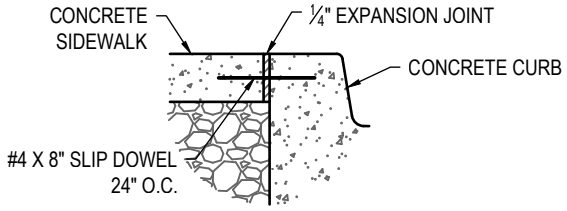
PLAN



SECTION A-A



DETAIL A



DETAIL B

NOTES:

1. REFER TO DETAIL C-1 FOR ALL CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
2. EXPANSION JOINTS SHALL BE PLACED AT 50' INTERVALS OR AS SHOWN WITH ½"X12" SLIP DOWELS AT 30" O.C.
3. NEW CONCRETE SHALL CONFORM TO EXISTING AT THE NEAREST JOINT UNLESS APPROVED OTHERWISE.
4. CONTROL AND SCORE JOINTS SHALL BE PLACED PER SPECIFICATIONS ON CITY DETAIL C-1.
5. BASE ROCK SHALL EXTEND 1' BEYOND LIP OF GUTTER PRIOR TO POURING CONCRETE.
6. WHERE INSTALLING PAD IN EXISTING STREETS, A 12" MIN WIDE AC PLUG SHALL BE PROVIDED.
7. POUR SIDEWALK SEPARATELY FROM CURB.
8. PAVEMENT FOR SIDEWALK SHALL CONFORM TO CITY DETAIL C-4B.
9. PUBLIC ACCESS EASEMENTS SHALL BE GRANTED TO THE CITY AS NECESSARY.

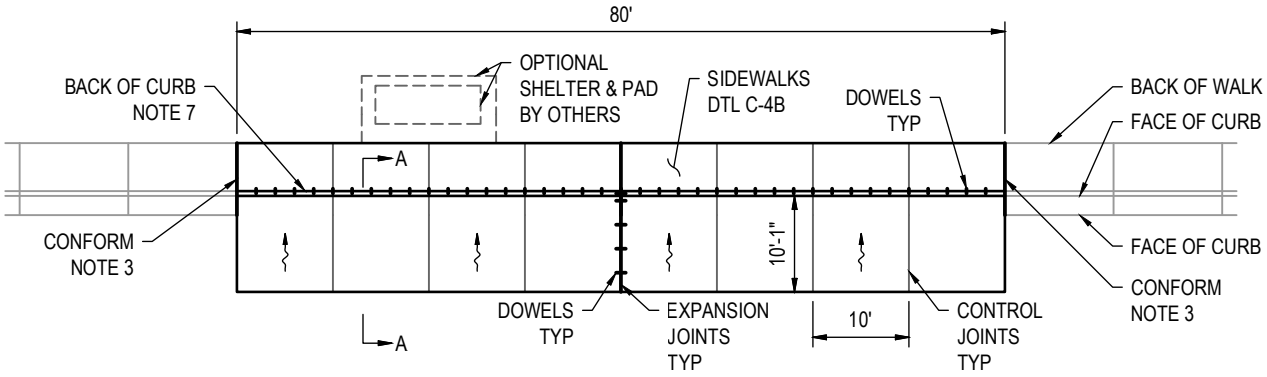
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

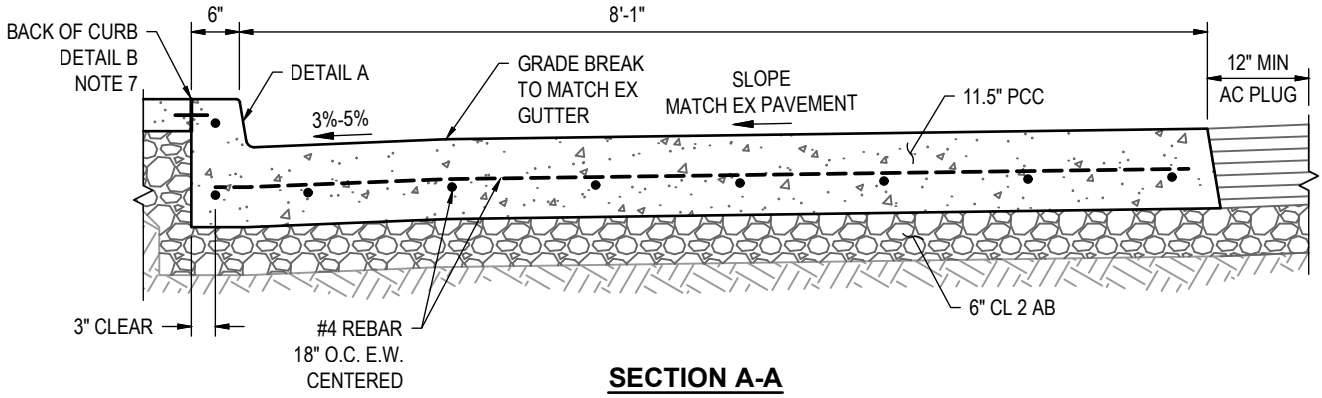
BUS TURNOUT

DATE
~~8/17/2012~~ 8/6

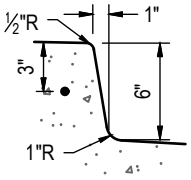
SHEET
C-7



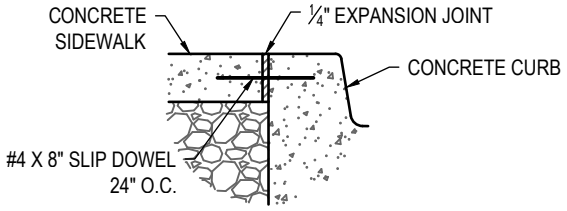
PLAN



SECTION A-A



DETAIL A



DETAIL B

NOTES:

1. REFER TO DETAIL C-1 FOR ALL CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
2. EXPANSION JOINTS SHALL BE PLACED AT 50' INTERVALS OR AS SHOWN WITH ½"X12" SLIP DOWELS AT 30" O.C.
3. NEW CONCRETE SHALL CONFORM TO EXISTING AT THE NEAREST JOINT UNLESS APPROVED OTHERWISE.
4. CONTROL AND SCORE JOINTS SHALL BE PLACED PER SPECIFICATIONS ON CITY DETAIL C-1.
5. BASE ROCK SHALL EXTEND 1' BEYOND NEW CONCRETE PRIOR TO POURING CONCRETE.
6. WHERE INSTALLING PAD IN EXISTING STREETS, A 12" MIN WIDE AC PLUG SHALL BE PROVIDED.
7. POUR SIDEWALK SEPARATELY FROM CURB.
8. PAVEMENT FOR SIDEWALK SHALL CONFORM TO CITY DETAIL C-4B.

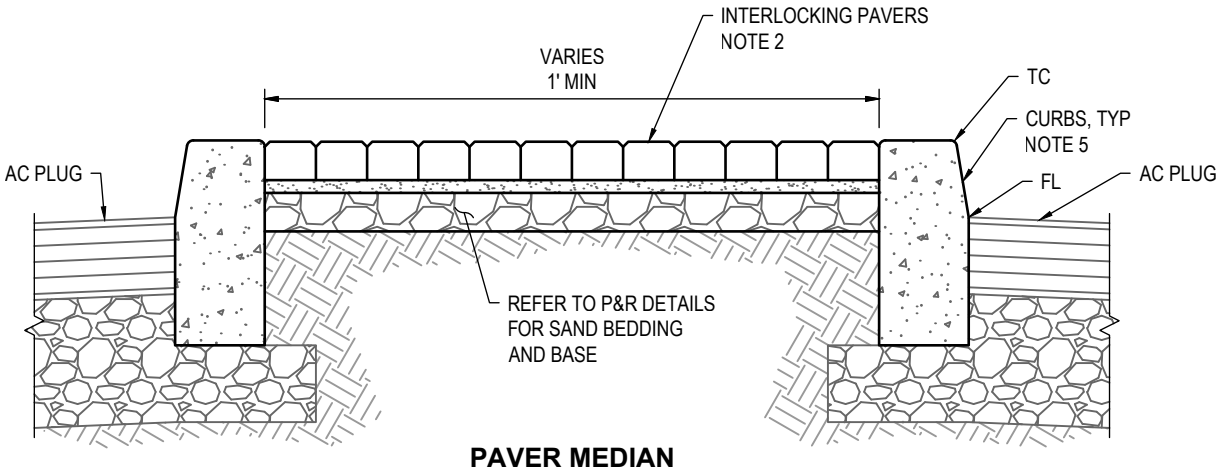
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

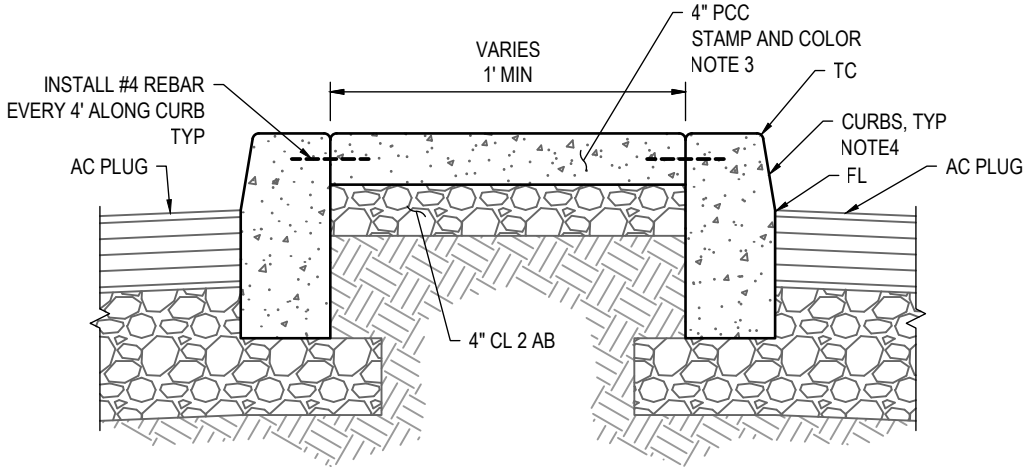
CONCRETE PAD

DATE
~~8/17/2022~~ 6

SHEET
C-8



PAVER MEDIAN



CONCRETE MEDIAN

STANDARD MEDIAN NOTES:

1. REFER TO DETAIL C-1 FOR ALL CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
2. PAVER AND/OR LANDSCAPED MEDIANS SHALL COMPLY WITH PARKS & RECREATION DIVISION (P&R) STANDARD DETAILS AND BE INSTALLED WHERE DIRECTED BY P&R.
3. CONCRETE MEDIAN STAMP PATTERN AND COLORING SHALL BE APPROVED BY PARKS & RECREATION PRIOR TO INSTALL. A SAMPLE MAY BE REQUIRED TO BE SUBMITTED FOR REVIEW.
4. MEDIANS SHALL HAVE A MINIMUM 1% SLOPE TOWARD THE CURB OR DRAIN.
5. CURB SHALL BE TYPE "C" VERTICAL CURB WHEN ROAD SLOPES AWAY FROM MEDIAN AND TYPE "A" CURB AND GUTTER WHEN ROAD SLOPES TOWARD MEDIAN.
6. WHERE INSTALLING MEDIANS IN EXISTING STREETS, A 12" MIN WIDE AC PLUG SHALL BE PROVIDED.
7. ALL UTILITY OR SERVICE BOXES SHALL BE RESET TO GRADE AS REQUIRED.

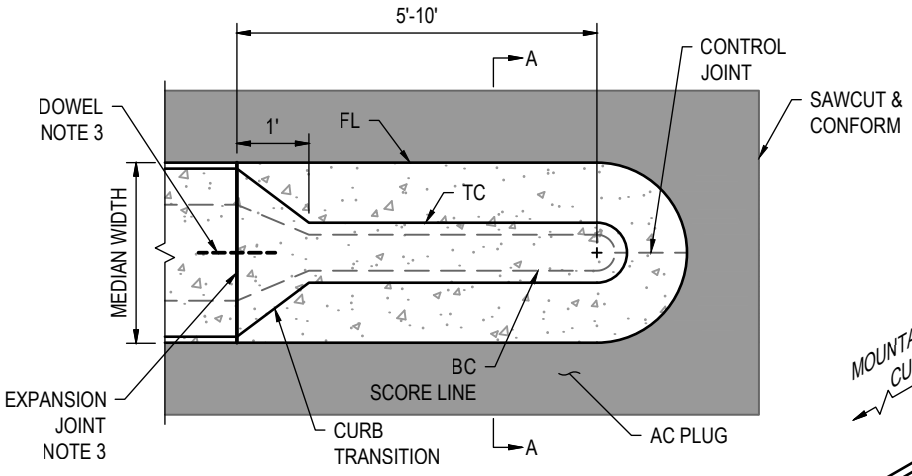
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

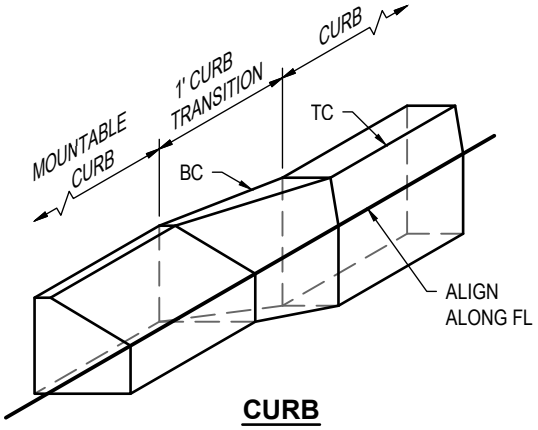
STANDARD MEDIAN

DATE
8/17/2022

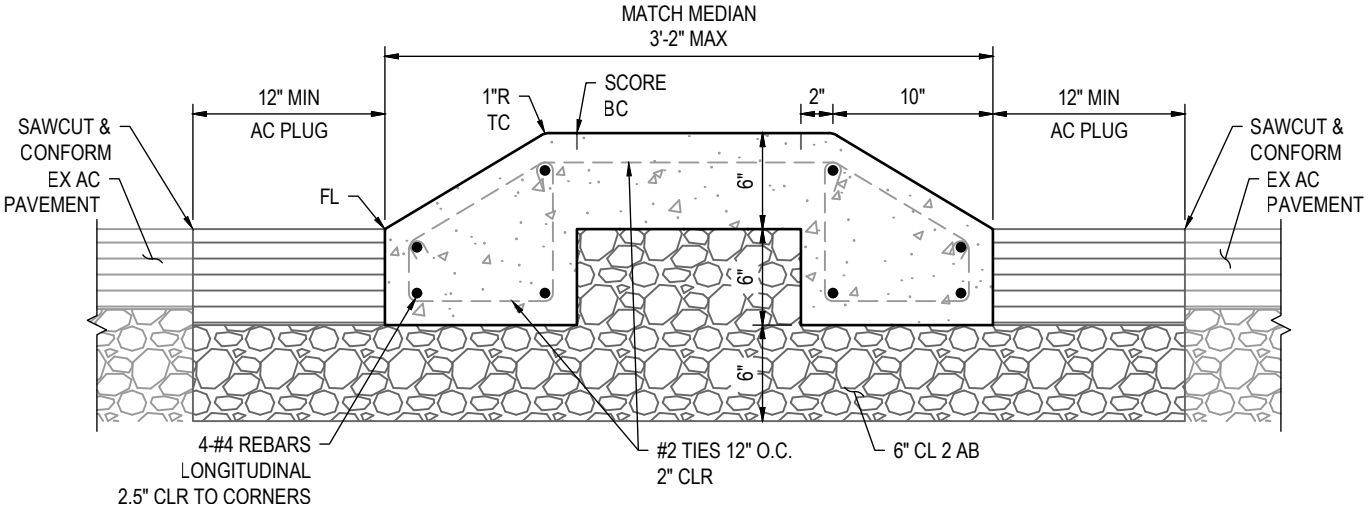
SHEET
C-9A



MOUNTABLE MEDIAN
PLAN



CURB TRANSITION



MOUNTABLE MEDIAN
SECTION A-A

MOUNTABLE MEDIAN NOTES:

1. MOUNTABLE MEDIAN SHALL ONLY BE INSTALLED WHERE DIRECTED BY THE PUBLIC WORKS DIRECTOR AND USED ON MEDIANS 2'-3' WIDE WHERE VEHICULAR TRAFFIC IS EXPECTED TO CROSS OVER (INTERSECTIONS AND DRIVEWAYS).
1. REFER TO DETAIL C-1 FOR ALL CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
2. MOUNTABLE MEDIAN SHALL MATCH THE WIDTH OF THE MEDIAN CONNECTING TO IT.
3. EXPANSION JOINT SHALL BE PLACED BETWEEN MOUNTABLE MEDIAN AND THE STANDARD MEDIAN WITH ½"X12" SLIP DOWELS (CENTER BETWEEN CONTROL JOINTS).

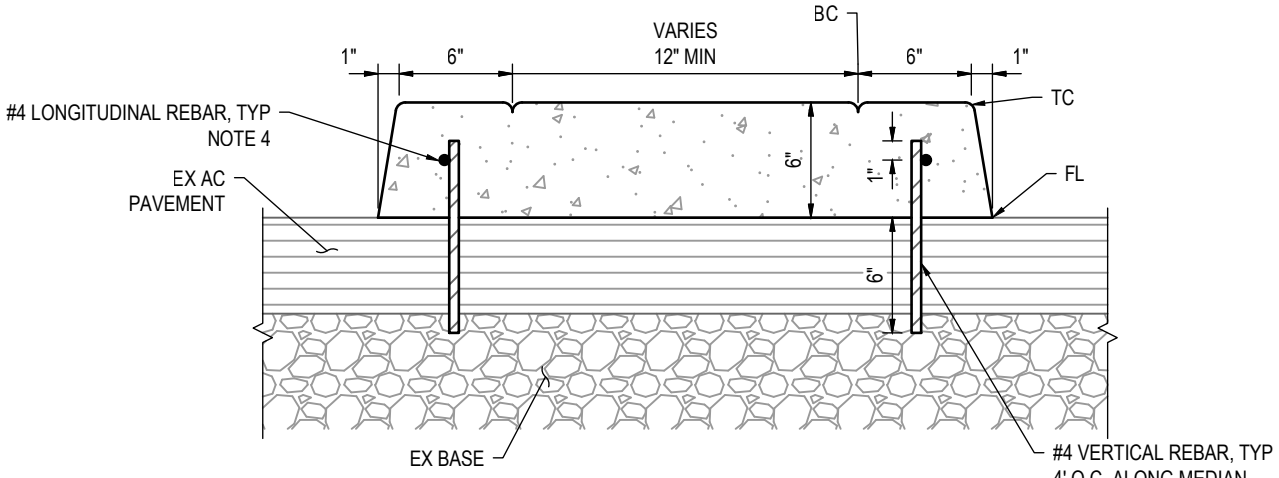
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

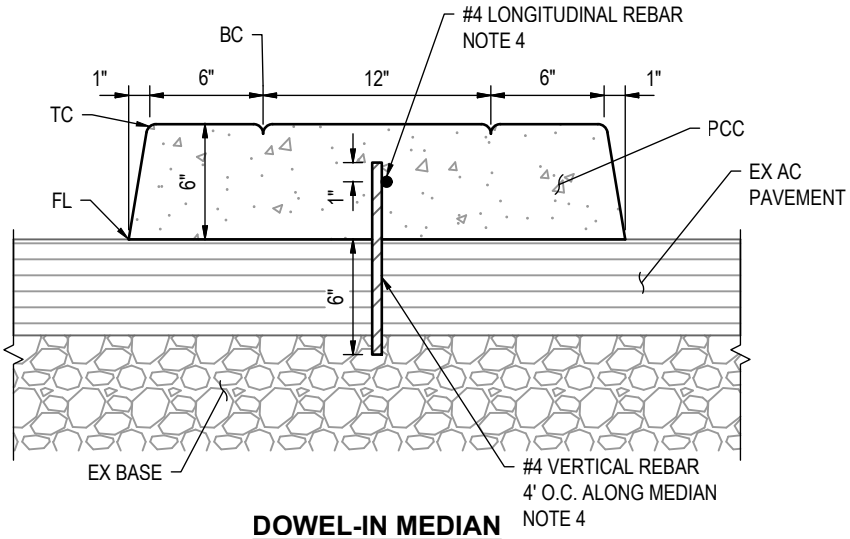
MOUNTABLE MEDIAN

DATE
8/17/2022

SHEET
C-9B



DOWEL-IN MEDIAN

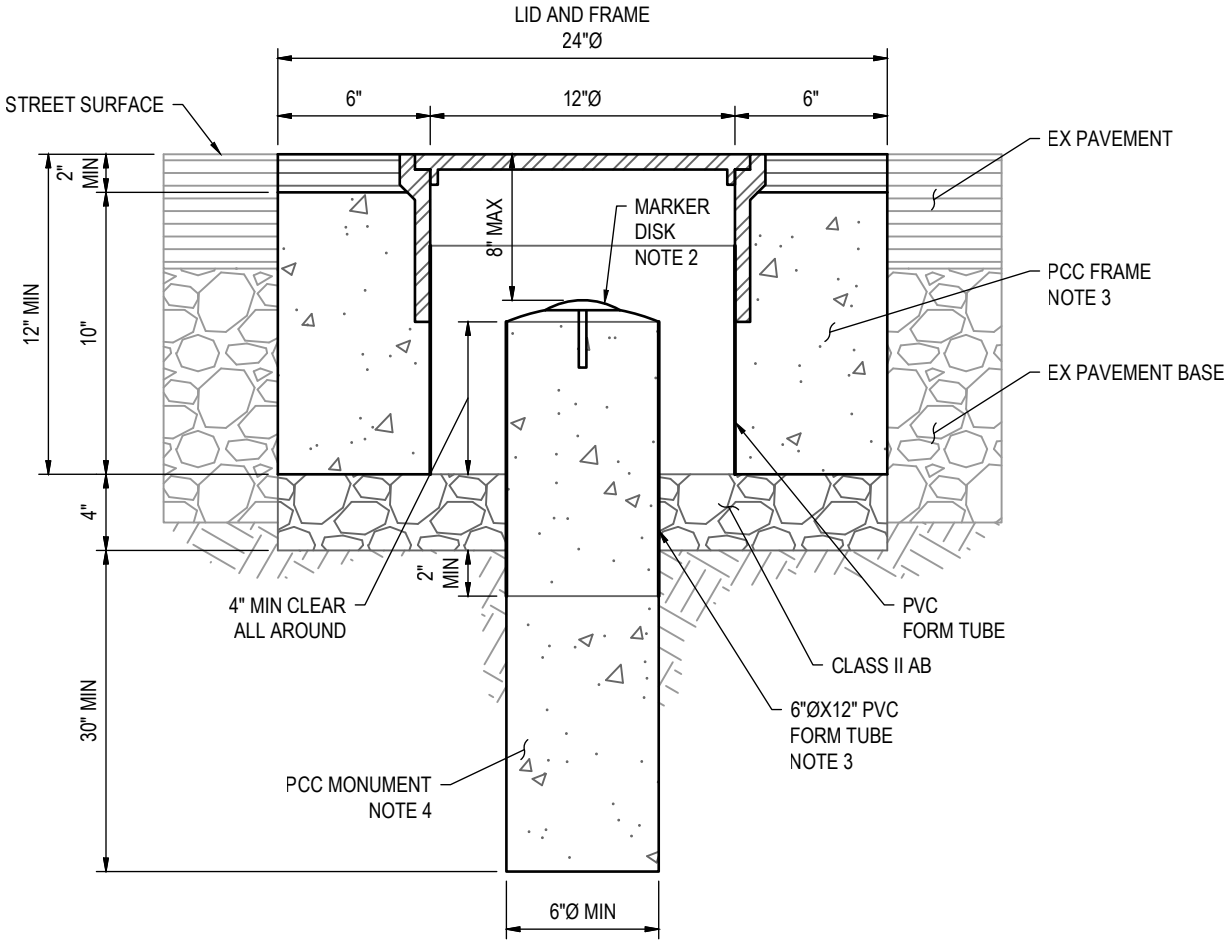


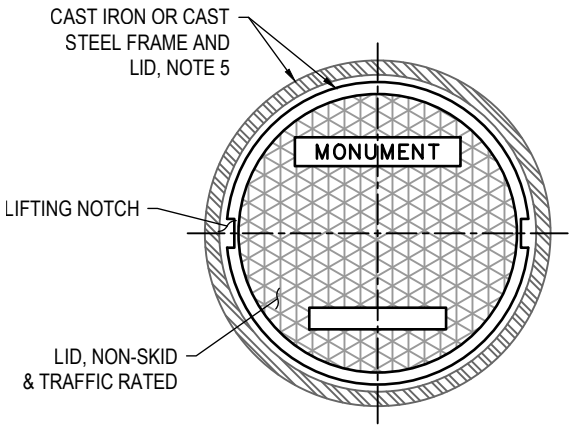
DOWEL-IN MEDIAN
2' WIDE

TACK-ON MEDIAN NOTES:

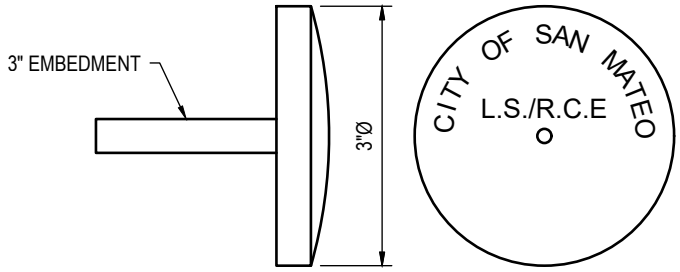
1. DOWEL-IN MEDIANS REQUIRE SPECIAL APPROVAL FROM PUBLIC WORKS DIRECTOR.
2. WITHIN 35-FT OF INTERSECTION, ONLY STANDARD CONCRETE MEDIANS AND MOUNTABLE MEDIANS SHALL BE USED.
3. REFER TO DETAIL C-1 FOR ALL CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
4. 4# LONGITUDINAL REBAR WIRED WITH #14 WIRE TO VERTICAL #4 REBAR 12" LONG GROUTED IN HOLES DRILLED 4' O.C.
5. PROVIDE SCORE LINE 6" BEHIND TOP OF CURB TO CREATE THE BACK OF CURB LINE.

CITY OF SAN MATEO CALIFORNIA	**DEPARTMENT OF PUBLIC WORKS**	DATE 8/17/2022
	DOWEL-IN MEDIAN	SHEET **C-9C**





MONUMENT LID



BRASS PLATE DETAIL

NOTES:

1. CITY DATUM IS SAN MATEO VERTICAL DATUM.
2. MARKER DISK SHALL BE 3" BRASS DISK. EXACT POINT TO BE DETERMINED BY ACCURATE SURVEY AND CLEARLY PUNCHED IN TOP OF BRASS MARKER TOGETHER WITH SURVEYOR'S LICENSE IN 1/8" HIGH NUMERALS.
3. CONCRETE MONUMENT AND CONCRETE FRAME SHALL BE CONSTRUCTED USING PVC FORM TUBES WHICH MAY BE LEFT IN PLACE.
4. DRILL HOLE AND POUR CONCRETE AGAINST UNDISTURBED EARTH.
5. CAST FRAME AND LID SHALL BE D&L SUPPLY COMPANY MODELS K-6015-01 AND K-6015-R1 OR APPROVED EQUIVALENT.

DEPARTMENT OF PUBLIC WORKS

CITY MONUMENT

DATE
8/17/2022~~8/6~~

SHEET
C-10

DRAINAGE NOTES:

1. CONCRETE SHALL BE CLASS "A" (6 SACK MIX) UNLESS OTHERWISE NOTED.
2. ALL CONCRETE (PRE-CAST AND CAST-IN-PLACE) SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
3. ALL GRATES, LIDS, AND FRAMES SHALL BE DESIGNED TO WITHSTAND H-20 LOADING.
4. ALL NEW INLETS MUST HAVE AN INLET MARKER INSTALLED ON CURB. SEE DETAIL D-10.
5. FOR ALL INLETS EXCEPT FOR THOSE USED AS JUNCTION BOXES, BASIN FLOORS SHALL HAVE WOOD TROWEL FINISH AND A MINIMUM SLOPE OF 4:1, UNLESS OTHERWISE NOTED, FROM ALL DIRECTIONS TOWARD OUTLET PIPE BY CASTING GROUT FILL ON TOP OF BASE SLAB OR BY CASTING AS PART OF THE STRUCTURE BASE.

ACCEPTED PIPE MATERIALS:

PIPE MATERIAL	ALLOWED LOCATION
PVC SDR 26	PUBLIC ROW / EASEMENT
HDPE DR17	PUBLIC ROW / EASEMENT
REINFORCED CONC PIPE*	PUBLIC ROW / EASEMENT

* REQUIRES SPECIAL APPROVAL FROM PUBLIC WORKS.

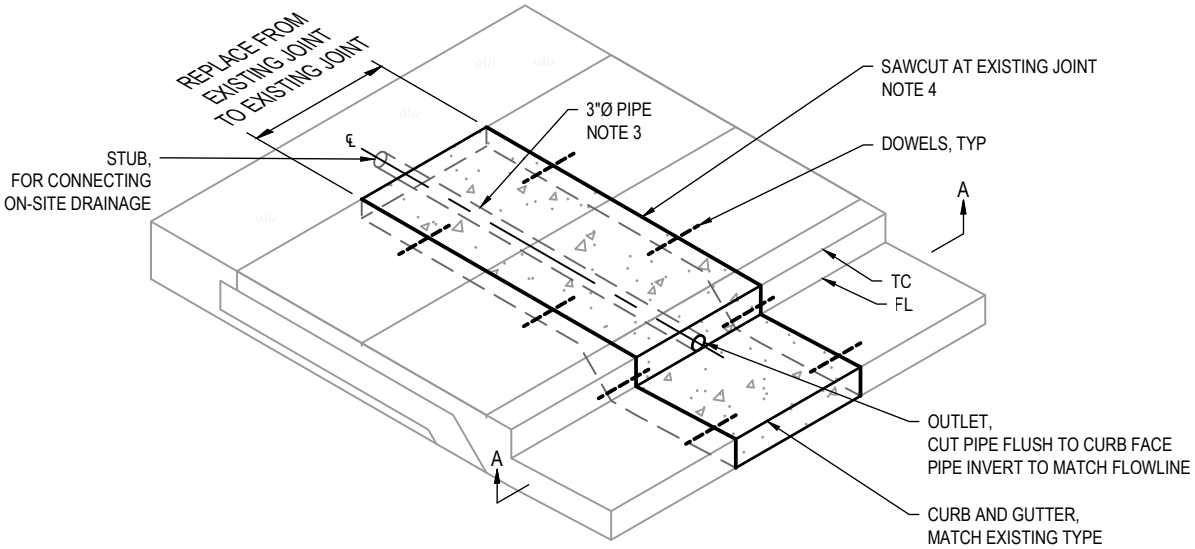
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

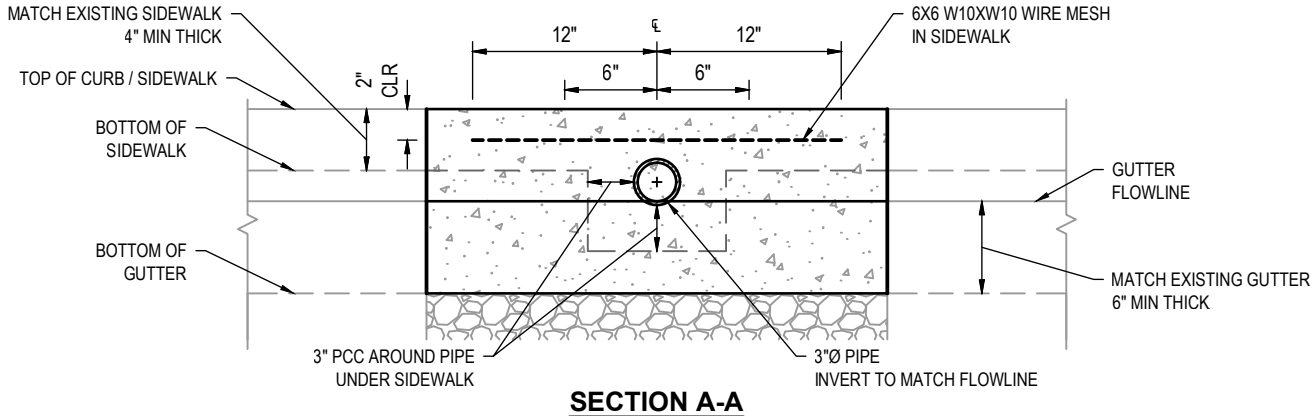
DRAINAGE STANDARD NOTES

DATE 8/17/2022

SHEET D-1



ISOMETRIC VIEW



SECTION A-A

SINGLE PIPE MAX CAPACITY = 67GPM = 0.15 CFS

NOTES:

1. WHERE THERE IS EXISTING SIDEWALK, CURB, & GUTTER, REMOVE A 20" MINIMUM SECTION OF CURB (AND ALIGN WITH ADJACENT SIDEWALK JOINTS) AND REPLACE SIDEWALK PER DETAIL C-4A AND CURB AND GUTTER PER DETAIL C-2A.
2. PIPE MATERIAL SHALL BE 3" DUCTILE IRON PIPE, PVC SCHEDULE 40, OR HDPE.
3. PIPE SHALL BE INSTALLED IN CENTER BETWEEN TWO JOINTS, OR FOR MULTIPLE PIPES, PROVIDE 7½"" MINIMUM CLEARANCE TO A JOINT.
4. SAWCUT SIDEWALK PANELS AT EXISTING JOINTS OR SCORE MARKS. CONSTRUCTION JOINTS SHALL BE INSTALLED WITH ½"X24" SLIP DOWELS EMBEDDED 6" ON BOTH SIDES. PLACE DOWELS CENTERED BETWEEN JOINTS FOR 3' OR SMALLER PANELS, OR TWO EVEN-SPACED DOWELS FOR 3' TO 5' PANELS.
5. REFER TO DETAIL C-1 FOR ALL CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
6. CORING SHALL NOT BE ALLOWED.
7. MULTIPLE PIPES SHALL REQUIRE PUBLIC WORKS DIRECTOR APPROVAL. 3" MIN CLEARANCE BETWEEN PIPES WHERE ALLOWED.
8. WHERE CURB HEIGHT IS LESS THAN 6-INCHES, MULTIPLE 1.5" DIAMETER PIPES MAY BE USED, SUBJECT TO PUBLIC WORKS DIRECTOR APPROVAL.

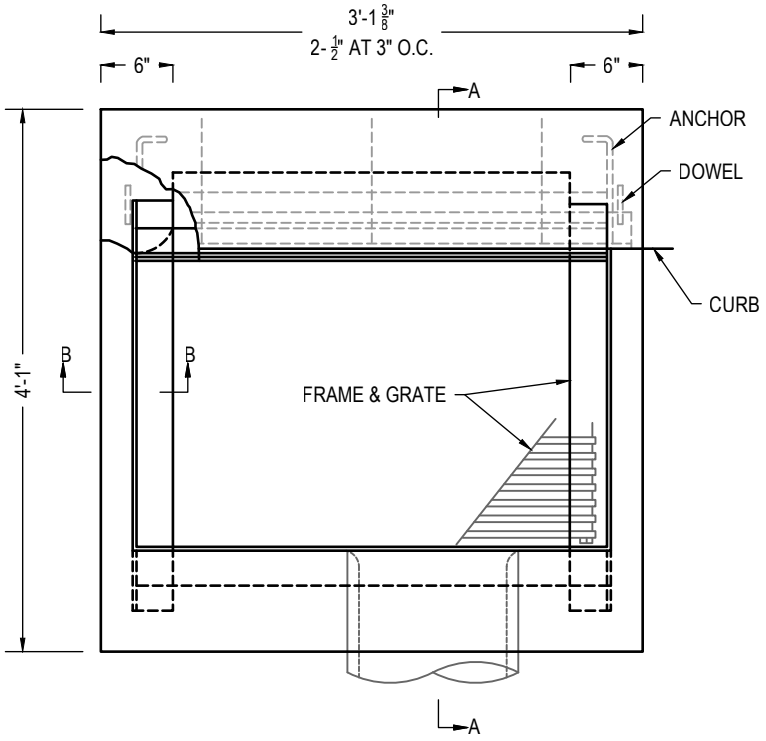
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

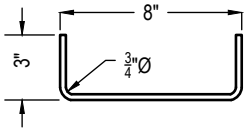
CURB DRAIN

DATE
8/17/2022

SHEET
D-2

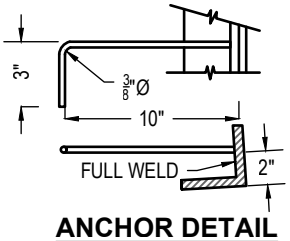


PLAN



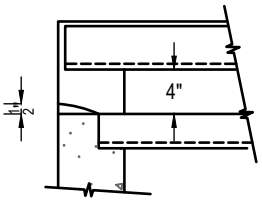
DOWEL DETAIL

3 REQUIRED WHEN TOP AT BASIN AND SIDEWALK ARE NOT MONOLITHIC

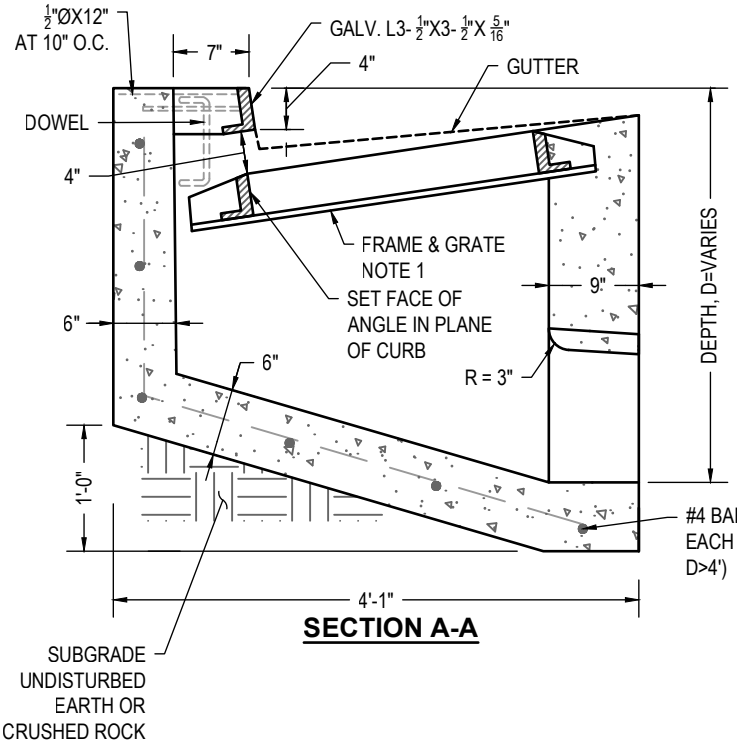


ANCHOR DETAIL

2 REQUIRED



SECTION B-B



SECTION A-A

NOTES:

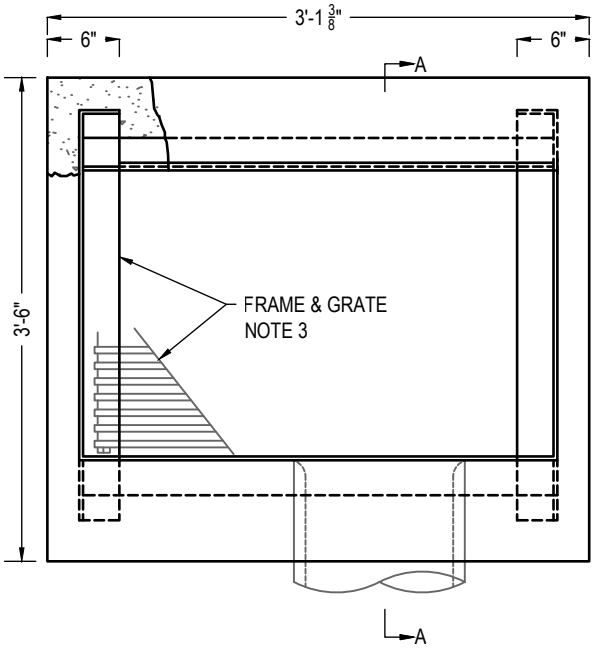
1. CONNECTION PIPES TO BE LOCATED ACCORDING TO PLANS AND BOTTOM OF BASIN TO BE SLOPED TO OUTLET.
2. ALL REBAR TO BE 2" CLEAR.

DEPARTMENT OF PUBLIC WORKS

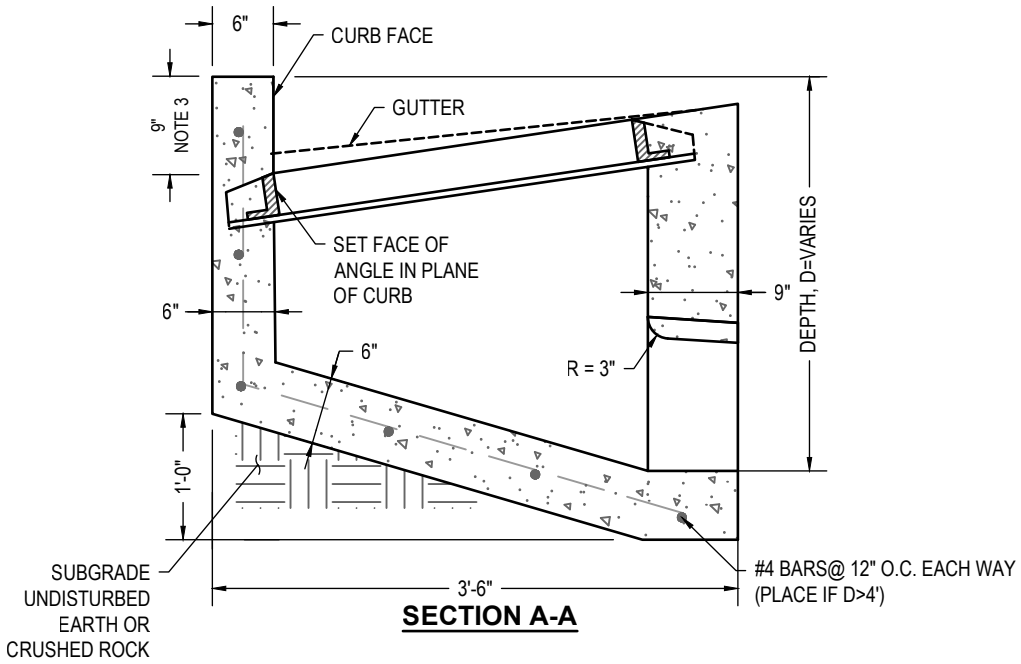
CATCH BASIN TYPE G-3

DATE
MM/DD/YYYY

SHEET
D-3



PLAN



SECTION A-A

NOTES:

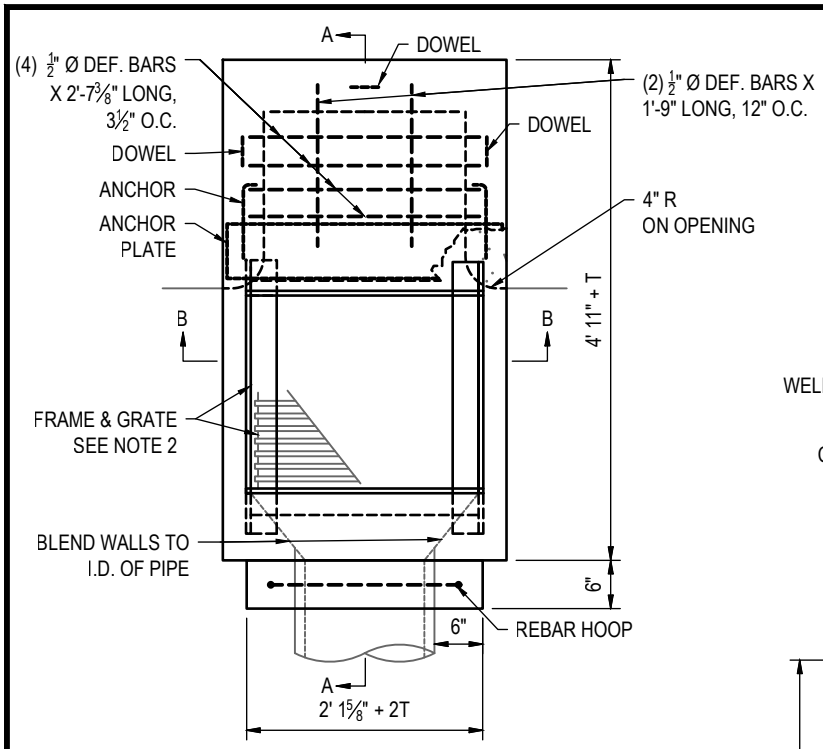
1. TYPE E-2 CATCH BASIN SHALL ONLY BE USED AS DIRECTED BY PUBLIC WORKS DIRECTOR.
2. CONNECTION PIPES TO BE LOCATED ACCORDING TO PLANS AND BOTTOM OF BASIN TO BE SLOPED TO OUTLET.
3. WHERE CATCH BASIN IS USED AS AN OUTLET TO A "BUBBLE UP" SYSTEM, ELIMINATE DEPRESSION IN GUTTER AND INSTALL FRAME AND GRATE IN PLANE OF NORMAL GUTTER.

DEPARTMENT OF PUBLIC WORKS

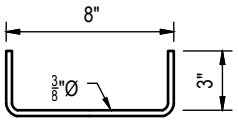
CATCH BASIN
TYPE E-3

DATE
8/17/2006

SHEET
D-4

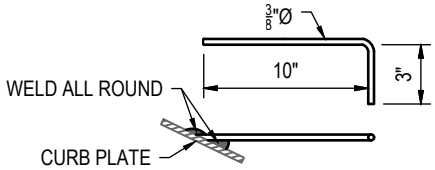


PLAN



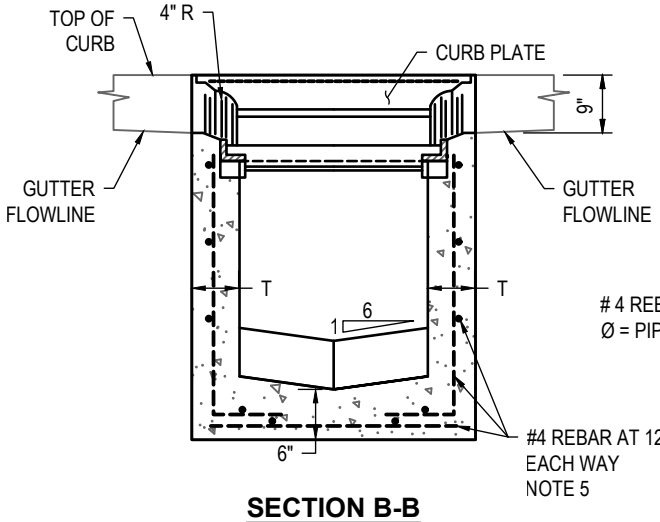
DOWEL DETAIL

3 REQUIRED WHEN TOP AT BASIN AND SIDEWALK ARE NOT MONOLITHIC

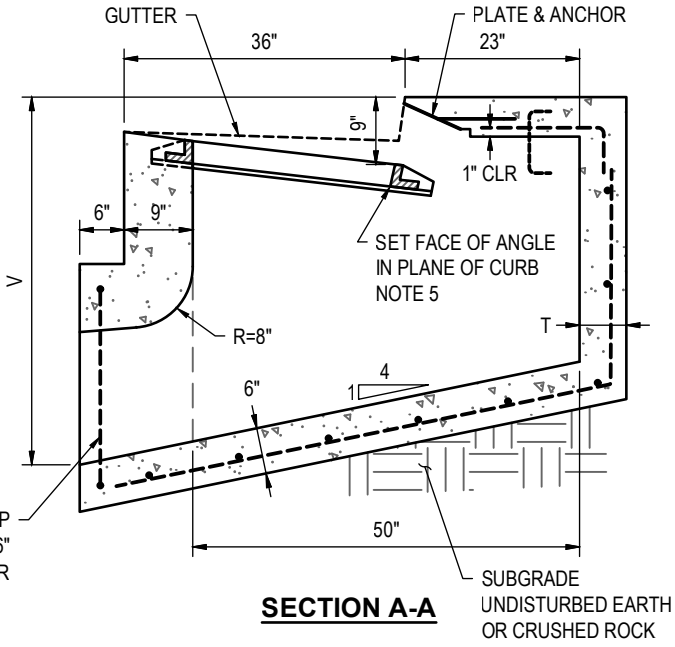


ANCHOR DETAIL

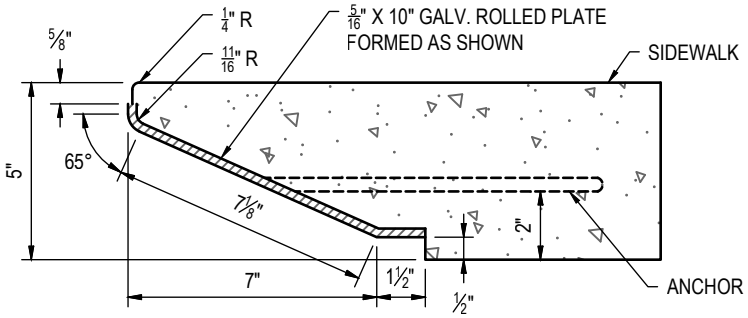
2 REQUIRED



SECTION B-B



SECTION A-A



CURB PLATE DETAIL

NOTES:

1. TYPE F-2 CATCH BASIN SHALL ONLY BE USED AS DIRECTED BY PUBLIC WORKS DIRECTOR.
2. FOR DETAILS OF FRAME AND GRATE, SEE DWG D-6.
3. CONNECTION PIPES TO BE LOCATED ACCORDING TO PLANS AND BOTTOM OF BASIN TO BE SLOPED TO OUTLET.
4. ALL REBAR SHALL BE 2-INCH CLEAR.
5. INSTALL PROTECTION BAR ACROSS OPENING.
6. T=6" IF "V" IS 4'-0" OR LESS
   T=8" IF "V" IS BETWEEN 4'-0" & 8'-0"
   T=10" IF "V" IS 8'-0" OR MORE

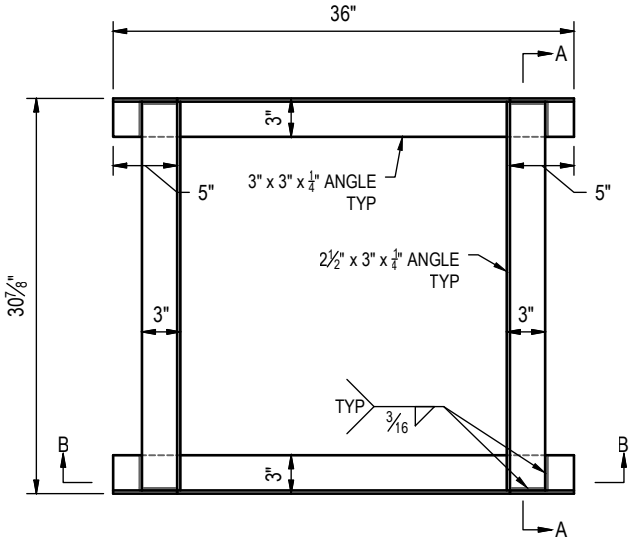
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

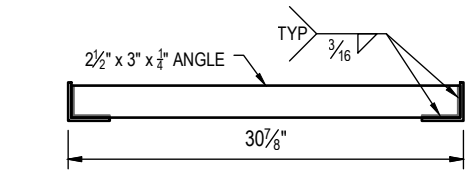
CATCH BASIN TYPE F-2

DATE 8/17/2026

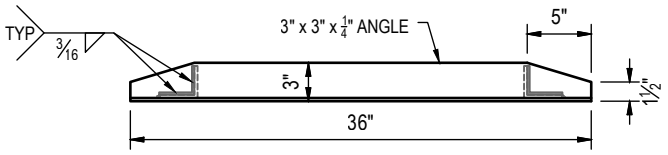
SHEET D-5



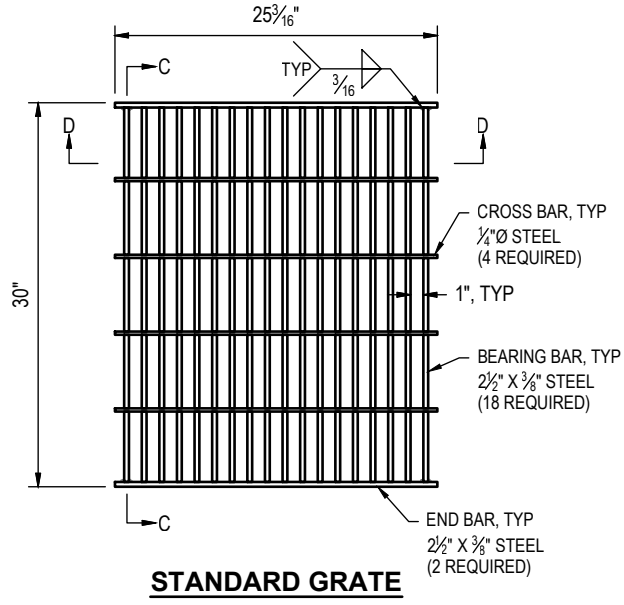
STANDARD FRAME



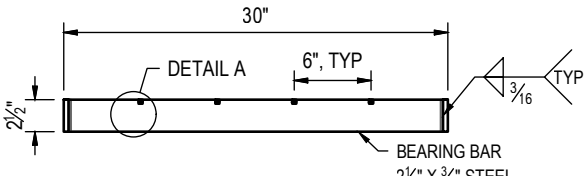
SECTION A-A



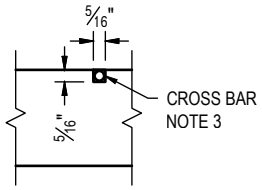
SECTION B-B



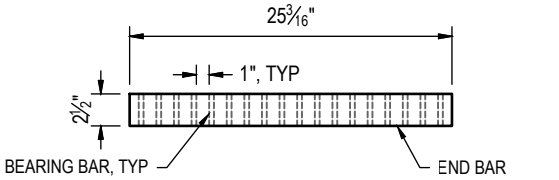
STANDARD GRATE



SECTION C-C



DETAIL A



SECTION D-D

NOTES:
1. TOP AND BOTTOM SURFACE OF GRATE TO BE GROUND FLUSH AFTER WELDING.
2. ALL METAL SURFACES SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM. ALL FABRICATING, SHEARING, BENDING, AND WELDING SHALL BE DONE PRIOR TO GALVANIZING.
3. WELD CROSS BARS AT EVERY 4TH BEARING BAR.

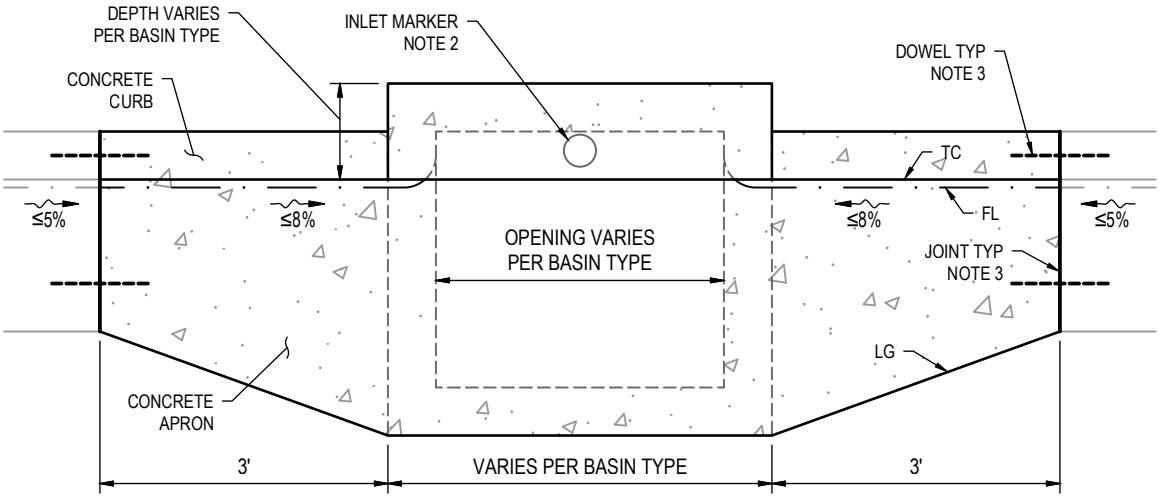
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

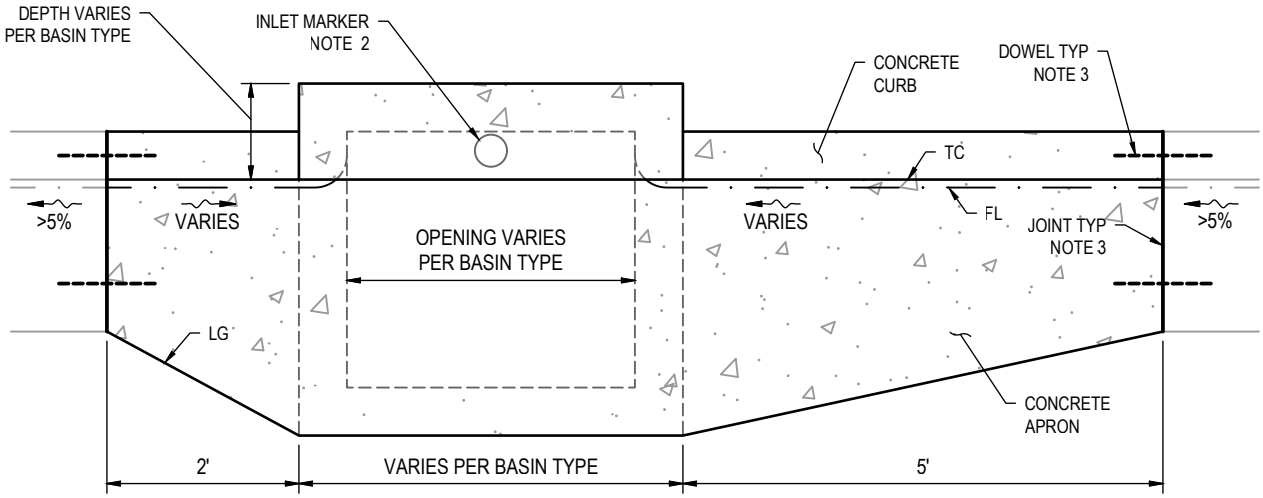
CATCH BASIN FRAME AND GRATE

DATE
8/17/2016

SHEET
D-6



APRON PLAN
GUTTER SLOPE ≤5%



APRON PLAN
GUTTER SLOPE >5%

NOTES:

1. REFER TO DETAIL C-1 FOR ALL CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
2. ATTACH INLET MARKER (MEDALLION) ON TOP CURB CENTERED ABOVE THE INLET. INLET MARKER TO BE PROVIDED BY PUBLIC WORKS. SEE DETAIL D-10.
3. INSTALL EXPANSION JOINT AND DOWEL INTO EXISTING CURB AND GUTTER PER STD C-2A.
4. WHERE INSTALLING INLET APRONS IN EXISTING STREETS, A 12" MIN WIDE AC PLUG SHALL BE PROVIDED.

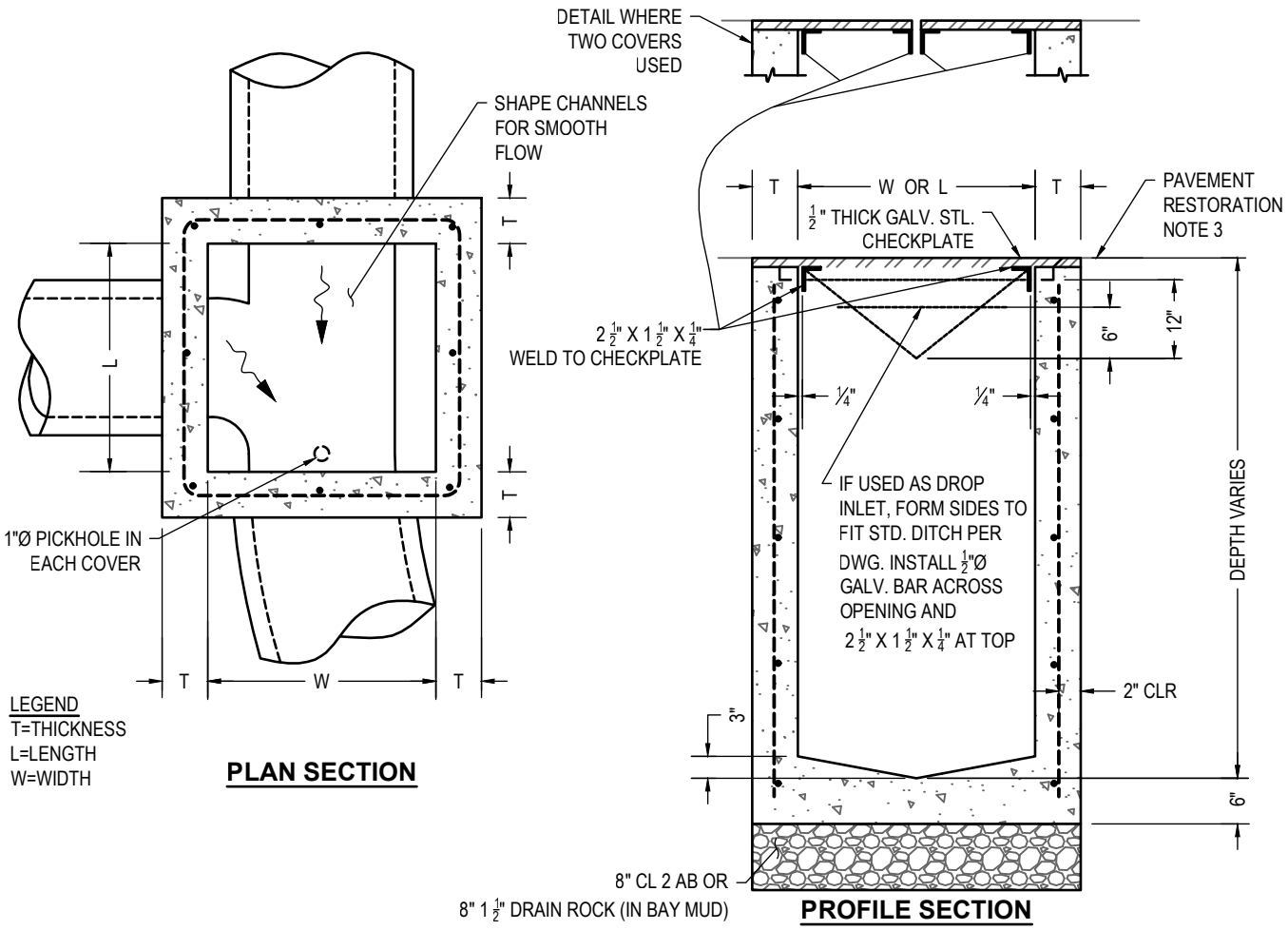
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

CATCH BASIN APRON

DATE
8/17/2022

SHEET
D-7



STRUCTURE COVER TABLE			
STRUCTURE DEPTH	L	W	COVER(S)
LESS THAN 3'	24"	24"	(1) 36"X36"
3' TO 6'	36"	36"	(2) 24"X48"
OVER 6'	36"	48"	(2) 30"X48"

WALL THICKNESS TABLE	
STRUCTURE DEPTH	T
4' OR LESS	6"
BETWEEN 4' TO 8'	8"
8' OR OVER	10"

NOTES:
1. LENGTHS AND WIDTHS WILL VARY AS NECESSARY TO ACCOMMODATE SIZE AND ANGLES OF CONNECTING PIPES.
2. SIDE ENTRY CONFIGURATION MAY BE MODIFIED TO ACCOMMODATE FIELD CONDITIONS WITH THE APPROVAL OF THE PUBLIC WORKS DIRECTOR.
3. WHERE INSTALLED IN EXISTING STREETS, A 12" MIN WIDE AC PLUG SHALL BE PROVIDED AROUND BOX AND PAVEMENT RESTORATION SHALL BE PROVIDED IN COMPLIANCE WITH DETAILS R-6A THRU R-6C.
4. FOR SHALLOW DRAINS, USE CHRISTY B1324 TRAFFIC-RATED BOX WITH ½" HEX PLATE LID.
5. STEPS ARE NOT ALLOWED.
6. OUTLET PIPE SHALL BE 12" MAXIMUM DIAMETER. OUTLET PIPE SHALL HAVE SAME OR GREATER SLOPE THAN INLET PIPE.
7. PROVIDE SURVEY STAKES TO INDICATE LOCATION AND ELEVATION.

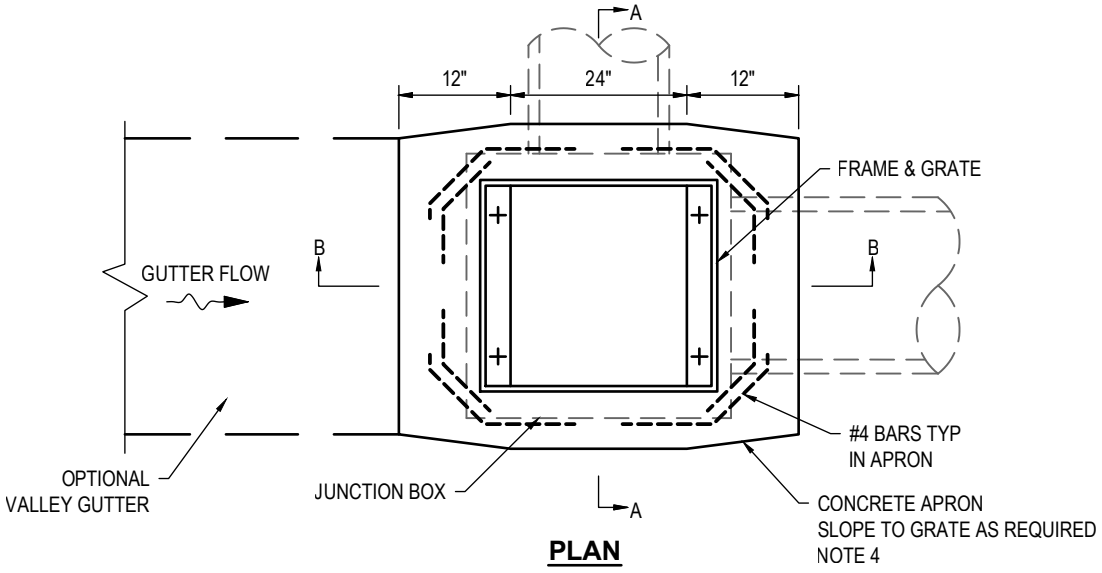
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

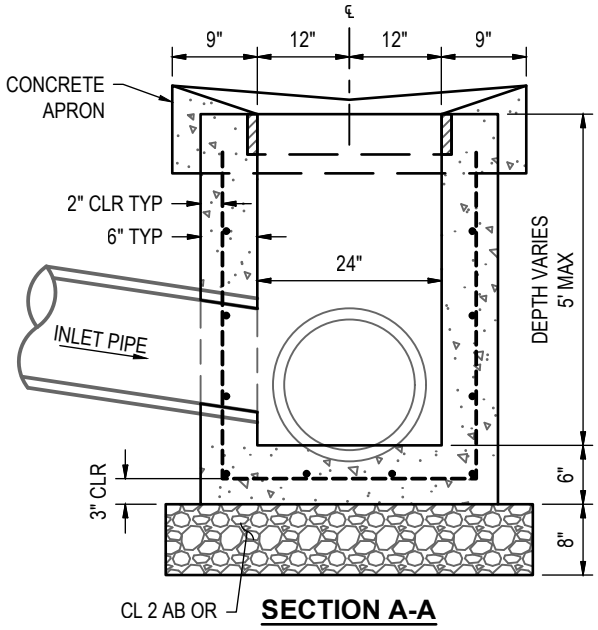
STORM DRAIN TURNING BOX

DATE
8/17/2026

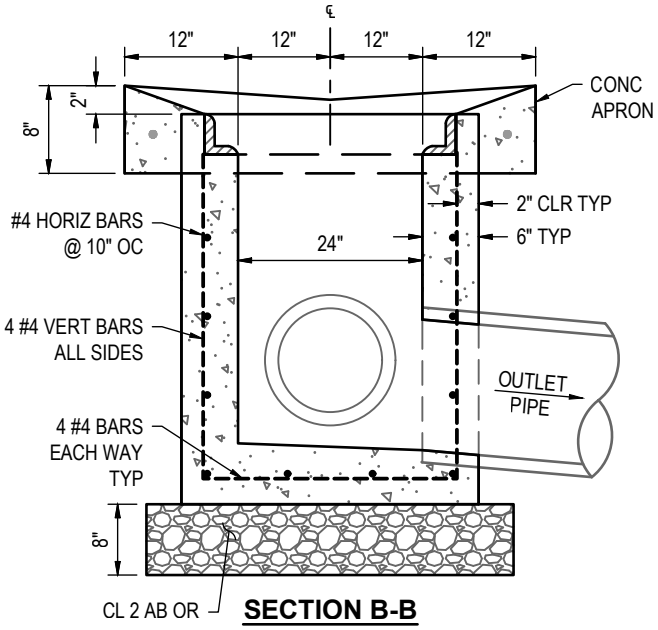
SHEET
D-8



PLAN



SECTION A-A



SECTION B-B

NOTES:

1. WHERE INSTALLED IN EXISTING STREETS, A 12" MIN WIDE AC PLUG SHALL BE PROVIDED AROUND BOX AND PAVEMENT RESTORATION SHALL BE PROVIDED IN COMPLIANCE WITH DETAILS R-6A THRU R-6C.
2. FOR SHALLOW DRAINS, USE CHRISTY B1324 TRAFFIC-RATED BOX WITH ½" HEX PLATE LID.
3. STEPS ARE NOT ALLOWED.
4. OUTLET PIPE SHALL BE 12" MAXIMUM DIAMETER. OUTLET PIPE SHALL HAVE SAME OR GREATER SLOPE THAN INLET PIPE.
5. OUTLET PIPE INVERT SHALL BE 1" MINIMUM LOWER THAN INLET PIPES INVERTS.
5. PROVIDE SURVEY STAKES TO INDICATE LOCATION AND ELEVATION.
6. A CONCRETE APRON IS REQUIRED FOR INLETS AT VALLEY GUTTERS AND PAVED AREAS.

CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

STORM DRAIN JUNCTION BOX

DATE
8/17/2022~~8/1/2016~~

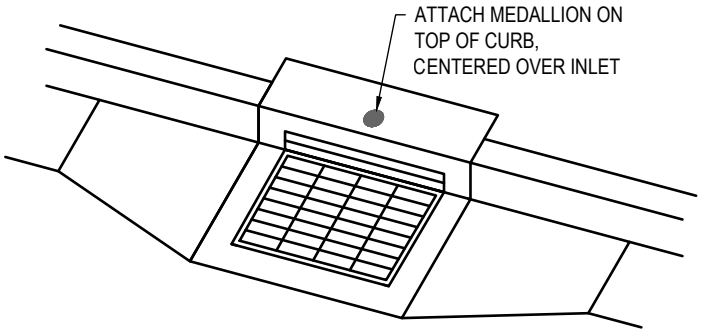
SHEET
D-9



INLET MARKER (MEDALLION)

NOTES:

1. MEDALLION IS ANODIZED ALUMINUM (COLORED BLUE AND SILVER) AND FURNISHED BY PUBLIC WORKS.
2. MEDALLION IS TO BE ATTACHED TO INLETS USING EPOXY CEMENT OR CAST IN PLACE WITH CURB.



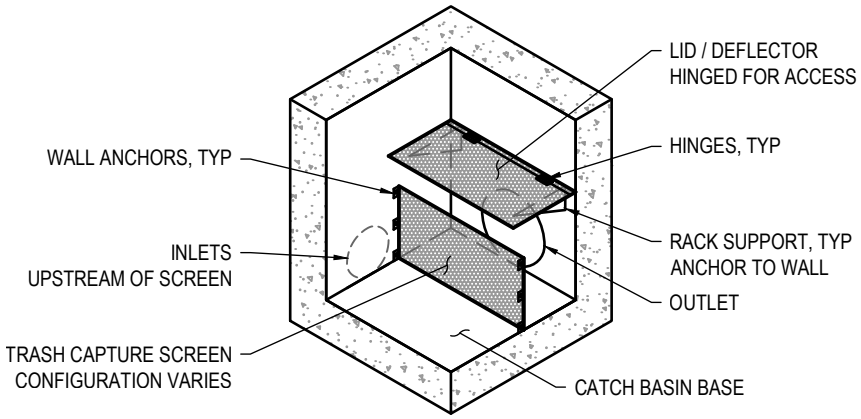
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

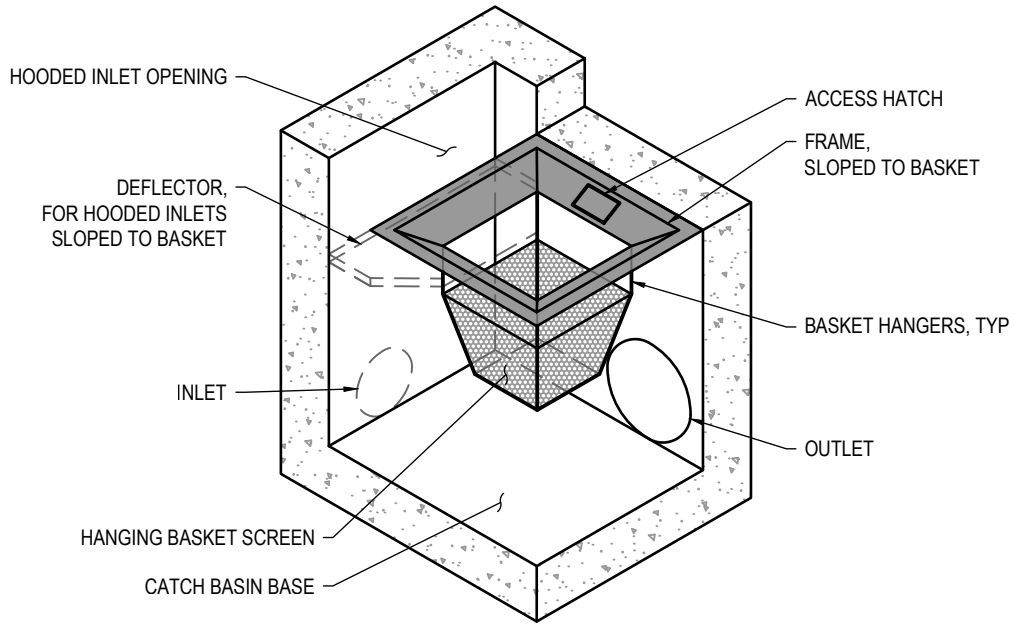
INLET MARKER

DATE
8/17/2022

SHEET
D-10



CONNECTOR PIPE SCREEN DETAIL



HANGING BASKET DETAIL

CONNECTOR PIPE SCREEN NOTES:

1. TRASH CAPTURE DEVICES SHALL BE INSTALLED AS DIRECTED BY PUBLIC WORKS DIRECTOR.
2. ALL TRASH CAPTURE DEVICE SYSTEMS SHALL BE A CERTIFIED TRASH FULL CAPTURE SYSTEM PER THE MOST CURRENT CERTIFICATION LIST PUBLISHED BY CALIFORNIA STATE WATER RESOURCES CONTROL BOARD. ONLY CONNECTOR PIPE SCREEN OR HANGING BASKET TYPE DEVICES SHALL BE ALLOWED.
3. CONTRACTORS TO CONFIRM MODEL AND CONFIGURATION WITH CITY STAFF PRIOR TO ORDERING MATERIALS.
4. ALL INSTALLATION METHODS AND MATERIALS SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS.
5. ALL TRASH CAPTURE DEVICE SYSTEMS SHALL INCLUDE ACCESS FOR VECTOR CONTROL.

CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

TRASH CAPTURE DEVICES

DATE
8/17/2022

SHEET
D-11

SEWER NOTES:

1. ENCROACHMENT PERMITS ARE REQUIRED FOR ANY WORK IN PUBLIC RIGHT-OF-WAY OR WITHIN A PUBLIC EASEMENT. A SEPARATE BUILDING PERMIT IS REQUIRED FOR WORK ON PRIVATE PROPERTY.

2. ALL WORK MUST BE INSPECTED BY CITY INSPECTOR PRIOR TO BACKFILLING.

2. PROPERTY OWNER OR CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES EXISTING IN PRIVATE PROPERTY INCLUDING EASEMENT AREA. LOCATING EXISTING UTILITIES SHALL BE PERFORMED TO IDENTIFY ANY CONFLICTS BEFORE ANY DIGGING.

3. WORK SHALL BE IN ACCORDANCE WITH THE CITY STANDARDS FOR NEW CONSTRUCTION, CALIFORNIA PLUMBING CODE (CPC), AND THE MATERIAL MANUFACTURER'S INSTALLATION GUIDELINES, EXCEPTIONS TO STANDARDS MUST BE APPROVED IN ADVANCE IN WRITING BY PUBLIC WORKS DIRECTOR.

4. WORK NOT CONFORMING TO THE CITY STANDARDS SHALL BE COMPLETELY EXCAVATED AND REINSTALLED TO MEET STANDARD. ANY SIDEWALK, DRIVEWAY, OR CURB & GUTTER, REMOVED BY THE CONTRACTOR IN THE COURSE OF SANITARY SEWER REPAIR OR INSTALLATION MUST BE REPLACED TO CITY STANDARDS BY THE CONTRACTOR AT NO COST TO THE CITY.

5. FOR NEW CONSTRUCTION, NO COMMON/SHARED SEWER LATERAL IS PERMITTED, LATERAL CONNECTIONS SHALL BE CONNECTED TO THE MAIN WITH 1/4,1/8, 1/16 LONG RADIUS BEND AS MANUFACTURED BY J-M EAGLE OR APPROVED EQUAL.

6. IF CPC MINIMUM LATERAL SLOPE IS NOT MET, INSTALL SEWER LATERAL BACKFLOW PREVENTER IN ACCORDANCE WITH CPC, SECTION 7, "SANITARY SEWER" REQUIREMENTS.

7. SANITARY SEWER COUPLING SHALL BE FLEX SEAL ADJUSTABLE COUPLING (ARC) MANUFACTURED BY MISSION RUBBER CO. OR EQUAL. INSTALL FACTORY WYE AT ALL NEW MAINLINE CONNECTION OR RECONNECTION.

8. INSTALL FACTORY WYE AND FLEX SEAL COUPLING TO MATCH EXISTING SEWER MAINLINE. SADDLE AND TEE CONNECTION TO MAINLINE IS NOT PERMITTED, EXCEPT FOR FUSED SADDLES FOR EXISTING HDPE MAINS OR AS APPROVED BY PUBLIC WORKS DIRECTOR.

9. PRIVATE SANITARY SEWER CLEAN-OUT SHALL PROVIDE ACCESS TO THE LATERAL IN THE DIRECTION OF FLOW FROM THE BUILDING AND SHALL BE IN ACCORDANCE WITH THE LATEST CPC REQUIREMENTS. TWO-WAY CLEAN-OUT INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST CPC REQUIREMENTS.

10. PIPE INSTALLATION MAY BE BY OPEN TRENCH METHOD OR TRENCHLESS METHOD. ENTIRE LENGTH OF THE PIPE SHALL BE FULLY SUPPORTED ON FIRM BEDDING MATERIAL.
    - OPEN TRENCH METHOD: TRENCH SHALL BE SAWCUT, EXCAVATED, AND BACKFILLED IN ACCORDANCE WITH CITY STANDARDS.
    - TRENCHLESS METHODS INCLUDE PIPE BURSTING, PIPE REAMING OR SLIPLINING. LINER SHALL NOT EXTEND INTO MAINLINE. SLIPLINING EXISTING LATERAL WITH PE OR HDPE PIPES IS NOT ALLOWED. CURE-IN-PLACE PIPE LINING IS NOT ALLOWED.

11. NO STORM DRAIN FACILITIES (ROOF, LEADERS, AREA DRAINS, ETC.) ARE ALLOWED TO BE CONNECTED TO SEWER LATERALS. ANY EXISTING CONNECTIONS SHALL BE PERMANENTLY DISCONNECTED FROM SEWER LATERAL AND REDIRECTED TO A STORM DRAIN SYSTEM.

ACCEPTED PIPE MATERIALS:

PIPE MATERIAL	ALLOWED LOCATION
PVC SDR 26	PUBLIC ROW / EASEMENT
HDPE DR17	PUBLIC ROW / EASEMENT
DUCTILE IRON PIPE	EASEMENT
CAST IRON PIPE	EASEMENT
ABS PIPE	EASEMENT

ACCEPTED LATERAL PIPE SIZES:

PROPERTY TYPE	PIPE ID SIZE	CONNECTION AT MAIN
SINGLE FAMILY	4-INCH (MIN)	WYE, LONG BEND
	6-INCH (MAX)	WYE, LONG BEND
NON-SINGLE FAMILY	6-INCH (MIN)	WYE, LONG BEND
	8-INCH	WYE, LONG BEND
	10-INCH (OR >)	MANHOLE

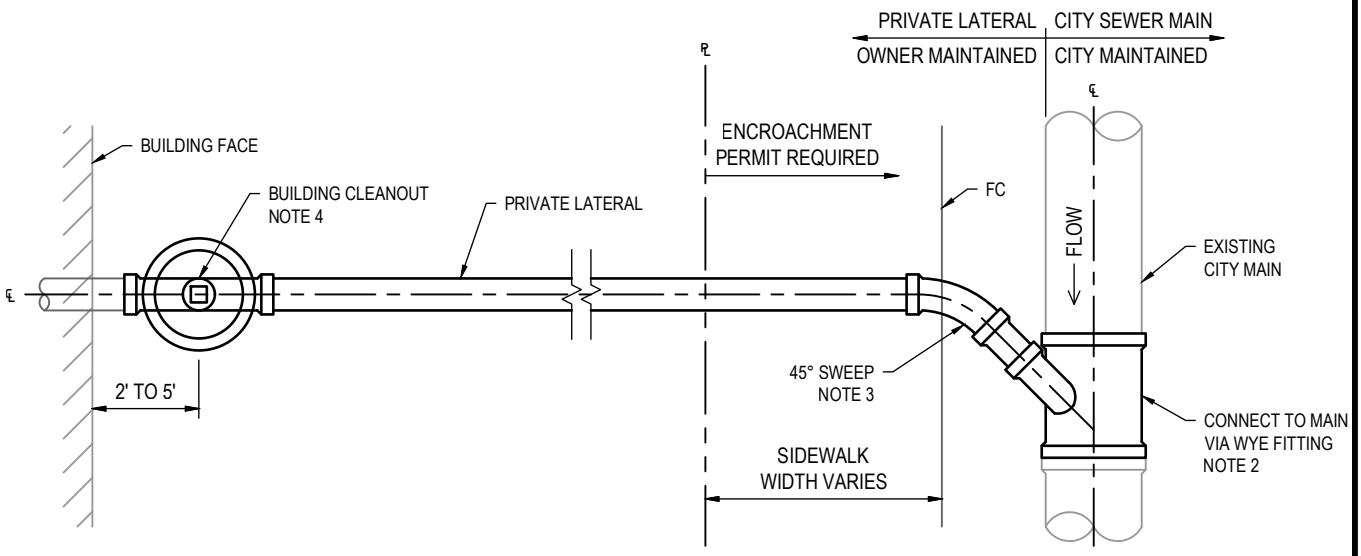
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

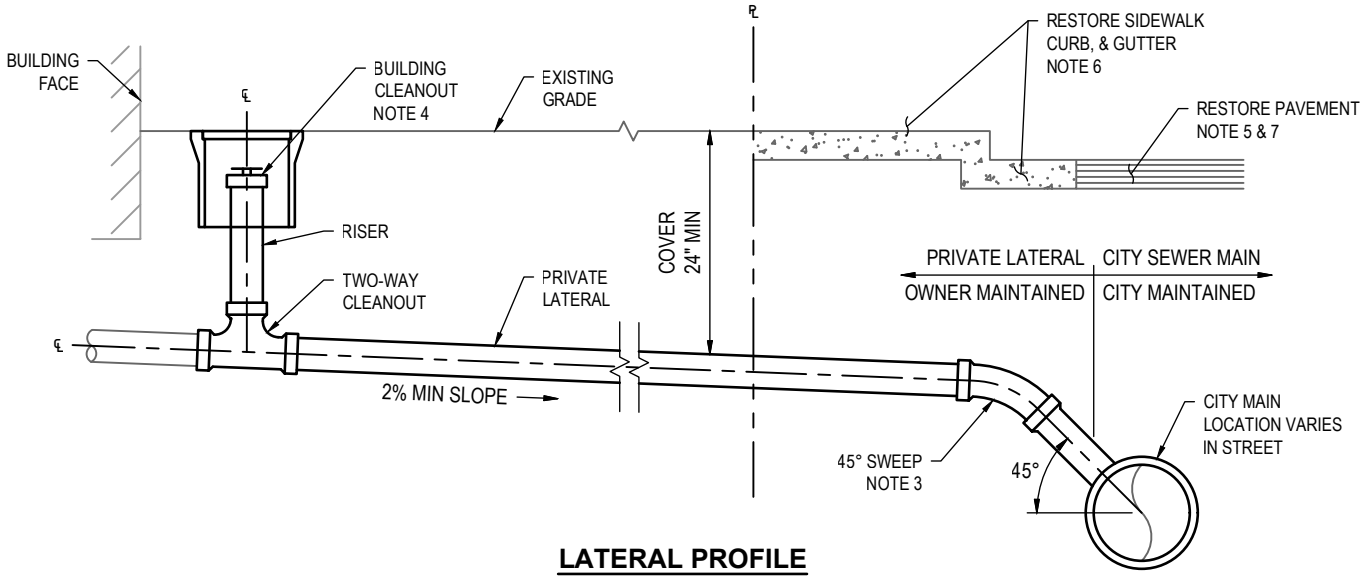
SEWER STANDARD NOTES

DATE
8/17/2022

SHEET
S-1



LATERAL PLAN



LATERAL PROFILE

NOTES:

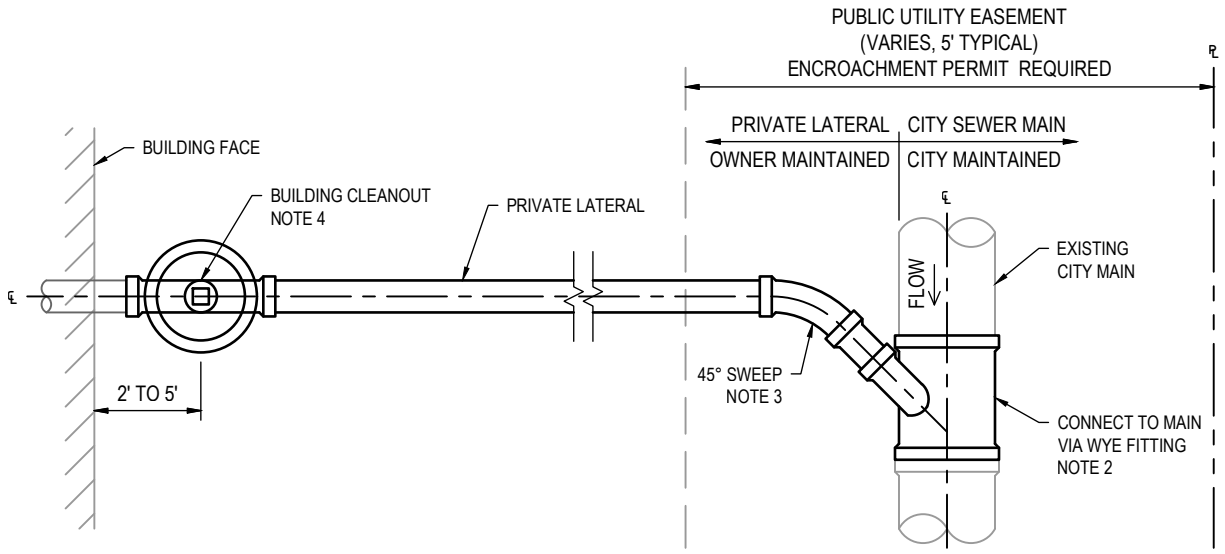
1. REFER TO DETAIL S-1 FOR SPECIFICATIONS.
2. LATERAL CONNECTION TO CITY MAIN SHALL CONFORM TO CITY STANDARD DETAILS S-4 AND S-5. MANHOLES ARE REQUIRED FOR LATERALS 10" OR LARGER.
3. WHERE SEWER MAIN INVERT IS MORE THAN 60" FROM THE SURFACE, A VERTICAL BEND SHALL BE REQUIRED.
4. BUILDING TWO-WAY CLEANOUT SHALL BE INSTALLED FROM THE BUILDING FACE IN COMPLIANCE WITH ADOPTED PLUMBING CODE. CLEANOUT SIZE SHALL MATCH LATERAL SIZE.
5. TRENCHES SHALL BE BACKFILLED AND RESTORED PER CITY DETAILS R-1 & R-2 AS APPLICABLE.
6. SIDEWALK, CURB, AND GUTTER SHALL BE RESTORED PER CITY STANDARDS. SAWCUTS SHALL BE MADE AT THE EXISTING JOINTS. PARTIAL SIDEWALK PANEL SAWCUTTING/REMOVAL IS NOT ALLOWED.
7. PAVEMENT SHALL BE RESTORED PER CITY DETAILS R-6A THRU R-6C.

CITY OF SAN MATEO CALIFORNIA

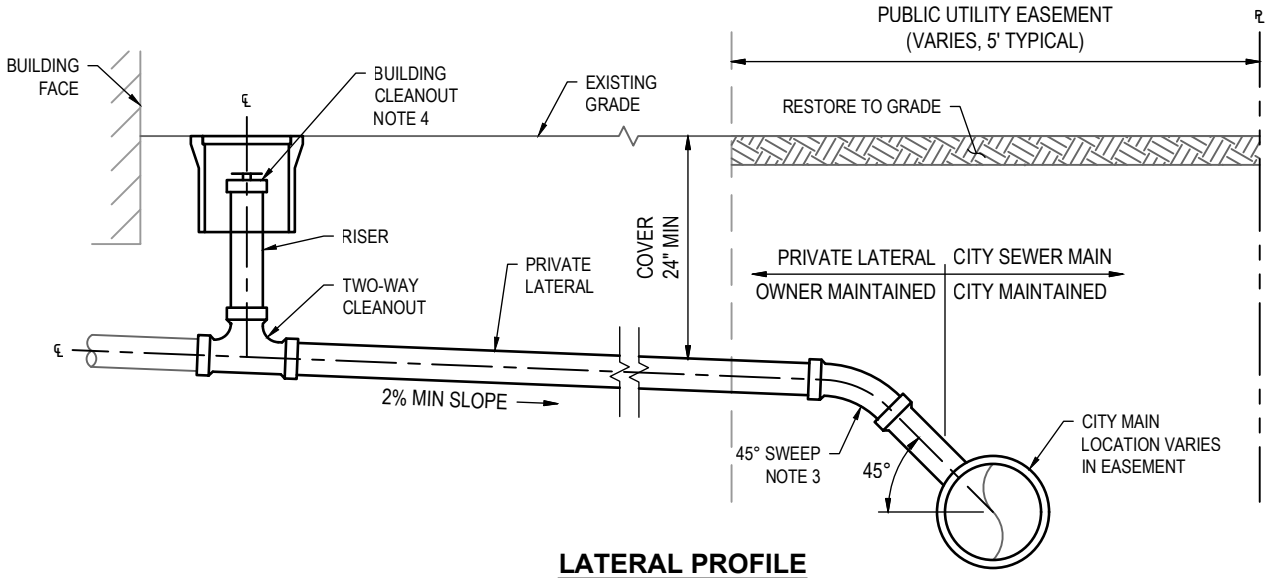
DEPARTMENT OF PUBLIC WORKS
SEWER LATERAL
(MAIN IN STREET)

DATE
8/17/2022

SHEET
S-2



LATERAL PLAN



LATERAL PROFILE

NOTES:

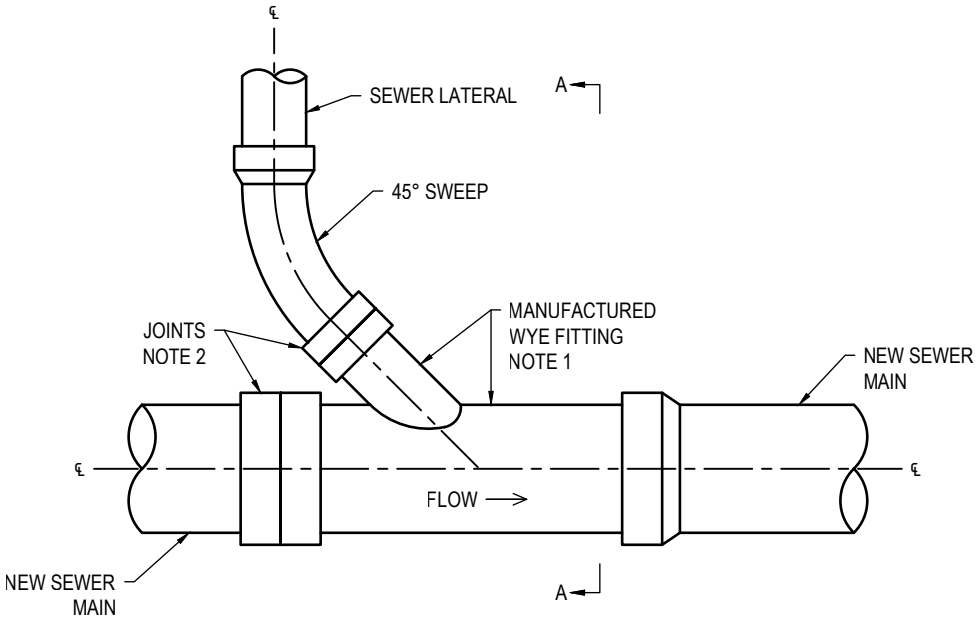
1. REFER TO DETAIL S-1 FOR SPECIFICATIONS.
2. LATERAL CONNECTION TO CITY MAIN SHALL CONFORM TO CITY STANDARD DETAILS S-4 AND S-5. MANHOLES ARE REQUIRED FOR LATERALS 10" OR LARGER.
3. WHERE SEWER MAIN INVERT IS MORE THAN 60" FROM THE SURFACE, A VERTICAL BEND SHALL BE REQUIRED.
4. BUILDING TWO-WAY CLEANOUT SHALL BE INSTALLED FROM THE BUILDING FACE IN COMPLIANCE WITH ADOPTED PLUMBING CODE. CLEANOUT SIZE SHALL MATCH LATERAL SIZE.
5. TRENCHES SHALL BE BACKFILLED AND RESTORED PER CITY DETAIL R-1.
6. RESTORE SURFACE TO EXISTING GRADE.

CITY OF SAN MATEO CALIFORNIA

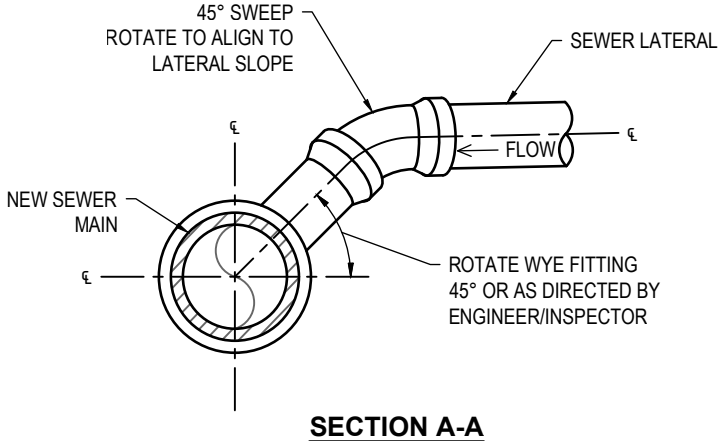
DEPARTMENT OF PUBLIC WORKS
SEWER LATERAL
(MAIN IN EASEMENT)

DATE
8/17/2022~~8/6~~

SHEET
S-3



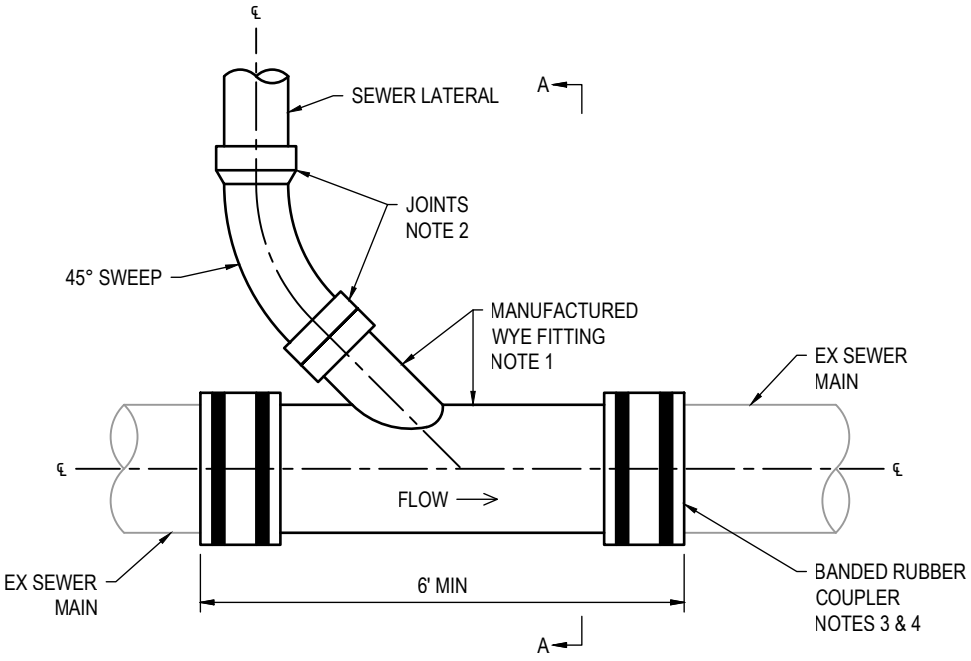
LATERAL CONNECTION PLAN



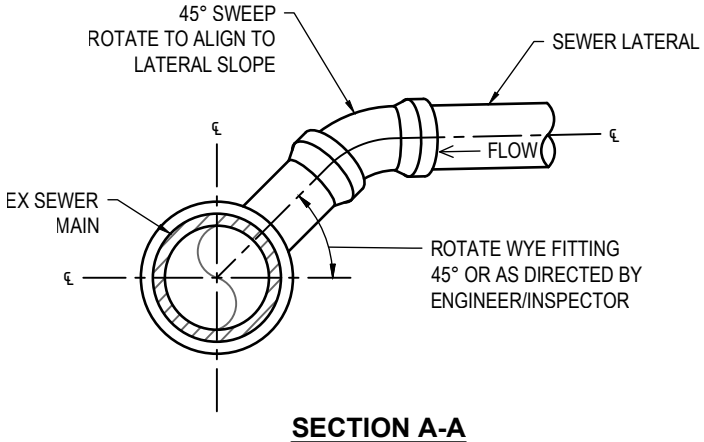
SECTION A-A

NOTES:
1. MANUFACTURED WYE FITTINGS SHALL HAVE PLAIN ENDS.
2. HDPE LATERAL TO HDPE MAIN SHALL BE FUSED.

CITY OF SAN MATEO CALIFORNIA	**DEPARTMENT OF PUBLIC WORKS** **SEWER LATERAL** **CONNECT TO NEW MAIN**	DATE 8/17/2022
		SHEET **S-4**



LATERAL CONNECTION PLAN



SECTION A-A

NOTES:

1. MANUFACTURED WYE FITTINGS SHALL HAVE PLAIN ENDS.
2. HDPE LATERAL TO HDPE MAIN SHALL BE FUSED. SOLVENT WELDED JOINTS ARE NOT PERMITTED.
3. COUPLINGS SHALL ONLY BE USED FOR LATERAL CONNECTION REPLACEMENT OR INSTALLATION ON EXISTING MAINS.
4. COUPLINGS SHALL BE BANDED, RUBBER COUPLING WITH TWO STAINLESS STEEL CLAMPS: FERNCO (1000 OR 5000 SERIES) OR MISSION (FLEX-SEAL ARC).
5. IF EXISTING MAIN HAS BEEN INTERNALLY REHABILITATED (SLIPLINED OR CIPP) AS CONFIRMED BY INSPECTING UP AND DOWNSTREAM MANHOLES, CAREFULLY BREAK AWAY THE HOST PIPE TO INSERT NEW WYE.

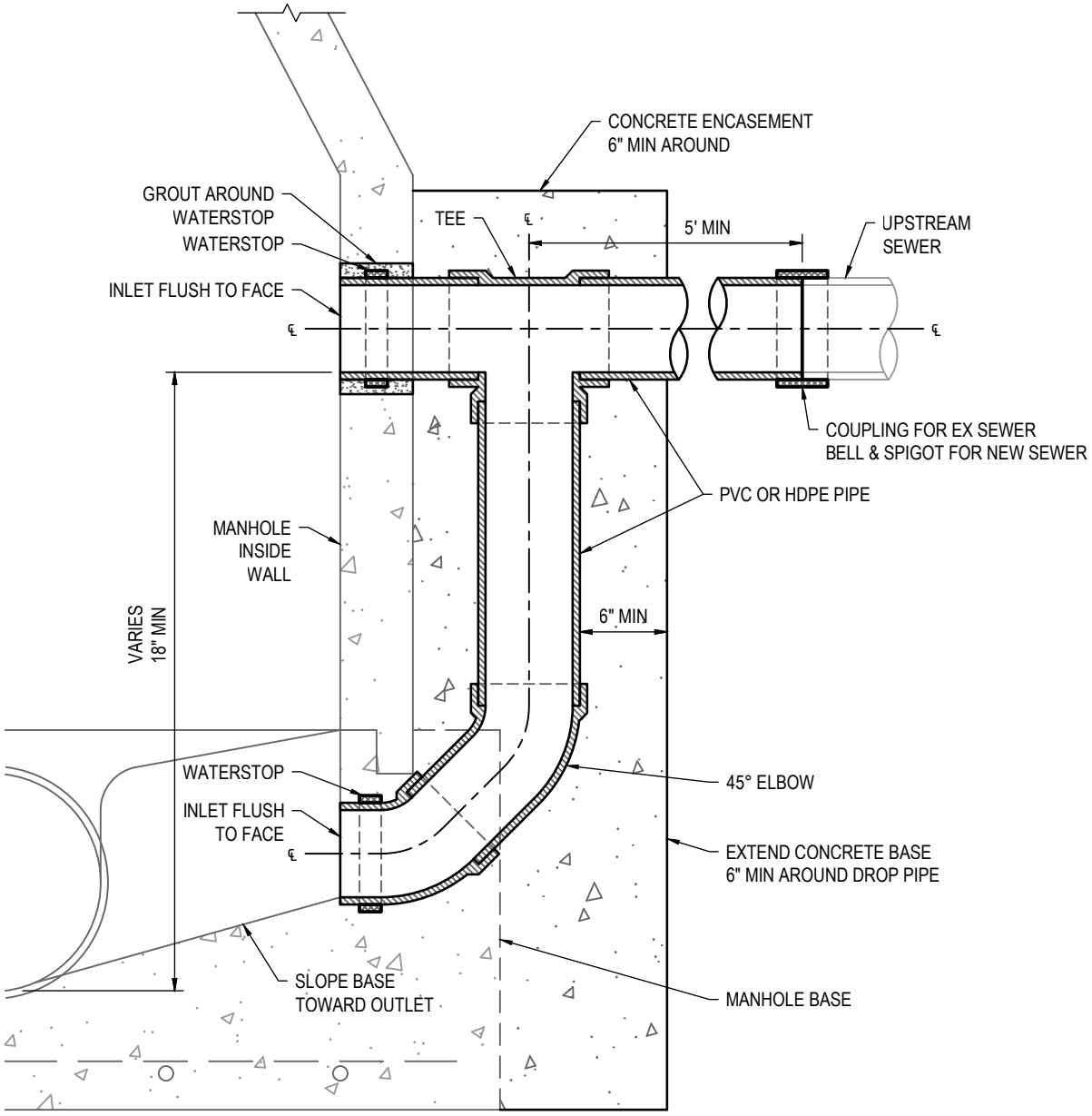
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

SEWER LATERAL CONNECT TO EX MAIN

DATE
8/17/2022

SHEET
S-5



DROP MANHOLE SECTION

NOTES:

1. DROP CONNECTION SHALL BE USED WHERE ELEVATION DIFFERENCE BETWEEN INLET AND OUTLET INVERTS IS 18" OR GREATER.
2. ALL PIPING SHALL BE PVC OR HDPE.
3. DROP CONNECTION SHALL BE ENCASED IN CONCRETE 6" MIN AROUND DROP PIPE.
4. WATERSTOPS SHALL BE A-LOK, KORE-N-SEAL, OR APPROVED EQUAL. GROUT AROUND WATERSTOP.
5. INLETS SHALL BE FLUSH WITH MANHOLE INSIDE WALL.

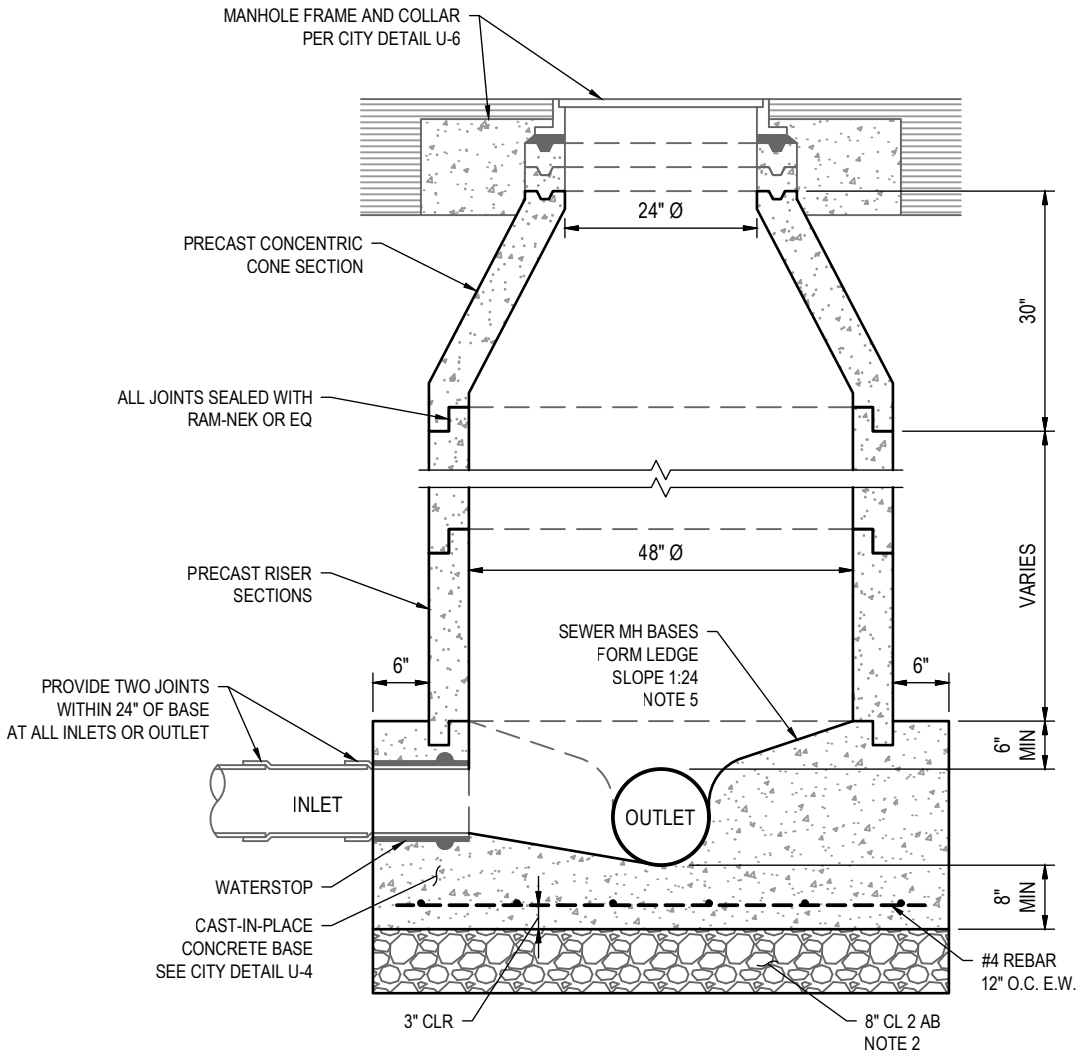
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

SEWER DROP CONNECTION

DATE
8/17/2022

SHEET
S-6



MANHOLE SECTION

NOTES:

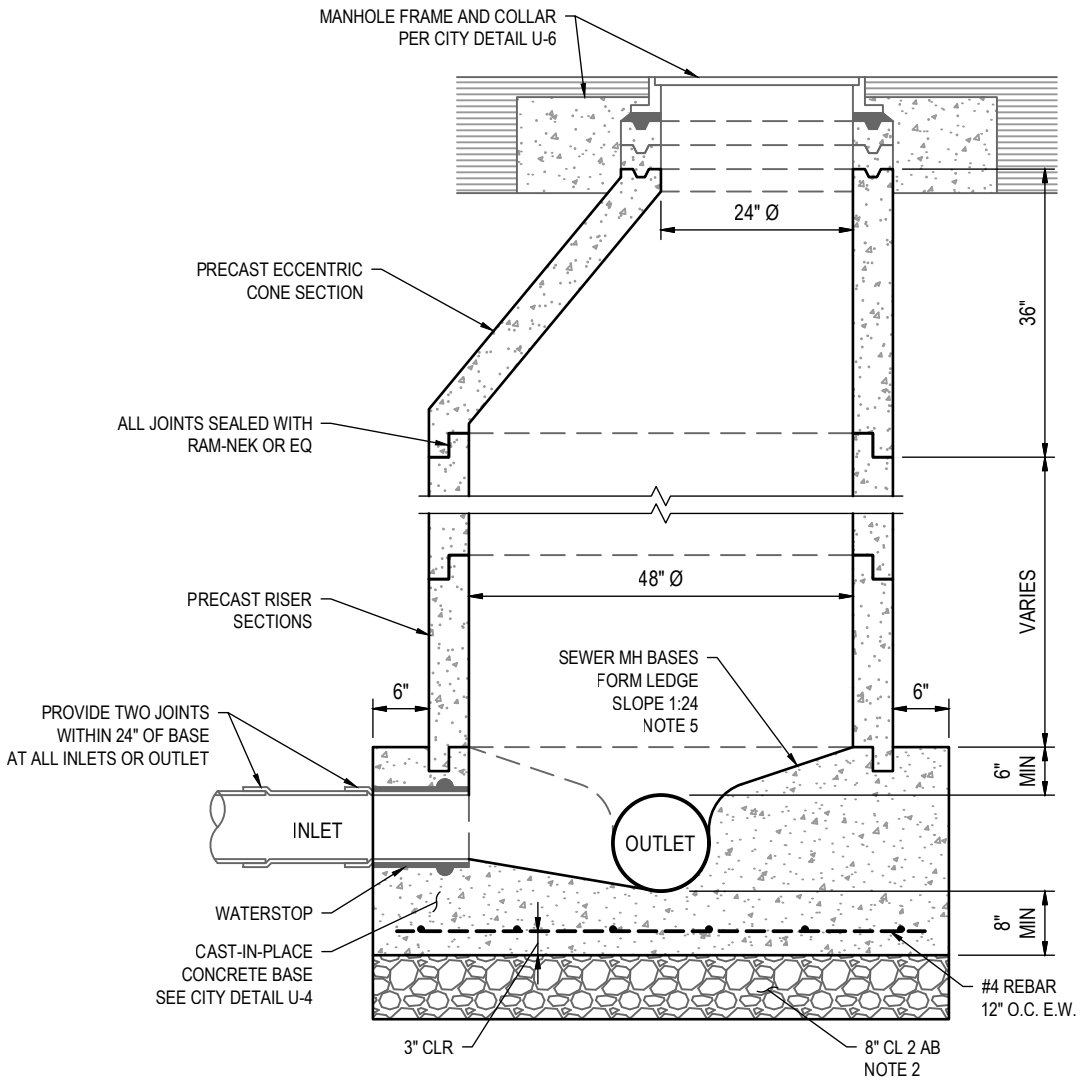
1. THIS MANHOLE BASE SHALL BE USED FOR MAIN PIPES OF UP TO 33" DIAMETER.
2. BEDDING THICKNESS AND TYPE SHALL BE AS RECOMMENDED PER PROJECT SPECIFIC GEOTECHNICAL ENGINEER RECOMMENDATIONS AND APPROVED BY PUBLIC WORKS DIRECTOR. PARTICULAR ATTENTION SHALL BE PAID TO BEDDING WITHIN BAY MUD.
3. CAST-IN-PLACE CONCRETE BASE SHALL BE FORMED CIRCULAR WITHIN STREETS OR SQUARE WITHIN EASEMENTS.
4. SOFFIT ELEVATION OF ALL INLET PIPES SHALL SHALL BE NO LESS THAN THE SOFFIT ELEVATION OF THE OUTLET PIPE, EXCEPT FOR OVERFLOW OUTLETS OR DROP INLETS.
5. ALL MANHOLES SHALL PROVIDE A MINIMUM 0.10' DROP ACROSS THE MANHOLE FROM INLET TO OUTLET.
6. FLOOR OF MANHOLE SHALL BE SLOPED A MINIMUM ½" PER FOOT TOWARD THE FLOWLINE. PROVIDE LEDGES AND CHANNELIZE BASE ONLY FOR SANITARY SEWER MANHOLES. SEE CITY DETAIL U-4 FOR PLAN.
7. WATERSTOPS SHALL BE PROVIDED ON ALL INLET AND OUTLET PIPE ENTRY POINTS. WATERSTOPS SHALL BE INSTALLED PER PIPE MANUFACTURER RECOMMENDATIONS.
8. ALL PRECAST SECTIONS SHALL CONFORM TO ASTM C-478 SPECIFICATIONS.
9. FRAME AND BASE SHALL BE SET TO THE PRECAST SECTIONS WITH 1:3 MORTAR MIX.
10 ALL JOINTS SHALL BE SEALED WITH GROUT, RAM-NEK SEAL, OR APPROVED EQUAL.
11. MANHOLE FRAME AND COVER SHALL CONFORM TO CITY DETAIL U-5 & U-6.
12. MANHOLE COLLAR AND SURFACE TREATMENT SHALL CONFORM TO CITY DETAIL U-6.

CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
CONCENTRIC MANHOLE (UP TO 33-INCH)

DATE
8/17/2022

SHEET
U-1



MANHOLE SECTION

NOTES:

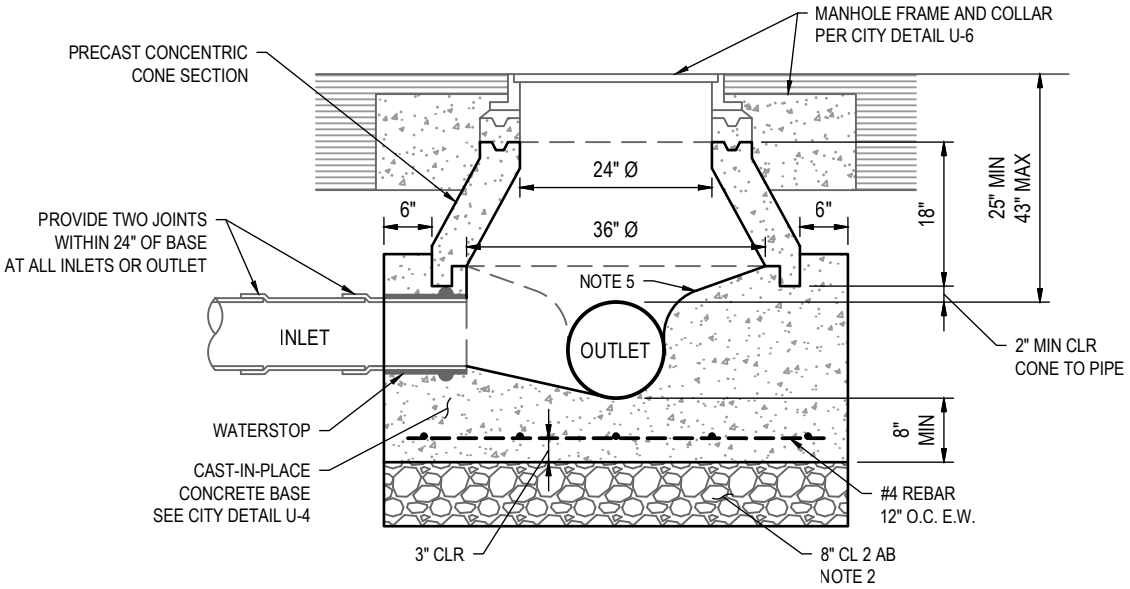
1. THIS MANHOLE BASE SHALL BE USED FOR MAIN PIPES OF UP TO 33" DIAMETER.
2. BEDDING THICKNESS AND TYPE SHALL BE AS RECOMMENDED PER PROJECT SPECIFIC GEOTECHNICAL ENGINEER RECOMMENDATIONS AND APPROVED BY PUBLIC WORKS DIRECTOR. PARTICULAR ATTENTION SHALL BE PAID TO BEDDING WITHIN BAY MUD.
3. CAST-IN-PLACE CONCRETE BASE SHALL BE FORMED CIRCULAR WITHIN STREETS OR SQUARE WITHIN EASEMENTS.
4. SOFFIT ELEVATION OF ALL INLET PIPES SHALL SHALL BE NO LESS THAN THE SOFFIT ELEVATION OF THE OUTLET PIPE, EXCEPT FOR OVERFLOW OUTLETS OR DROP INLETS.
5. ALL MANHOLES SHALL PROVIDE A MINIMUM 0.10' DROP ACROSS THE MANHOLE FROM INLET TO OUTLET.
6. FLOOR OF MANHOLE SHALL BE SLOPED A MINIMUM ½" PER FOOT TOWARD THE FLOWLINE. PROVIDE LEDGES AND CHANNELIZE BASE ONLY FOR SANITARY SEWER MANHOLES. SEE CITY DETAIL U-4 FOR PLAN.
7. WATERSTOPS SHALL BE PROVIDED ON ALL INLET AND OUTLET PIPE ENTRY POINTS. WATERSTOPS SHALL BE INSTALLED PER PIPE MANUFACTURER RECOMMENDATIONS.
8. ALL PRECAST SECTIONS SHALL CONFORM TO ASTM C-478 SPECIFICATIONS.
9. FRAME AND BASE SHALL BE SET TO THE PRECAST SECTIONS WITH 1:3 MORTAR MIX.
10 ALL JOINTS SHALL BE SEALED WITH GROUT, RAM-NEK SEAL, OR APPROVED EQUAL.
11. MANHOLE FRAME AND COVER SHALL CONFORM TO CITY DETAIL U-5 & U-6.
12. MANHOLE COLLAR AND SURFACE TREATMENT SHALL CONFORM TO CITY DETAIL U-6.

CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
ECCENTRIC MANHOLE
(UP TO 33-INCH)

DATE
8/17/2022

SHEET
U-2



MANHOLE SECTION

NOTES:

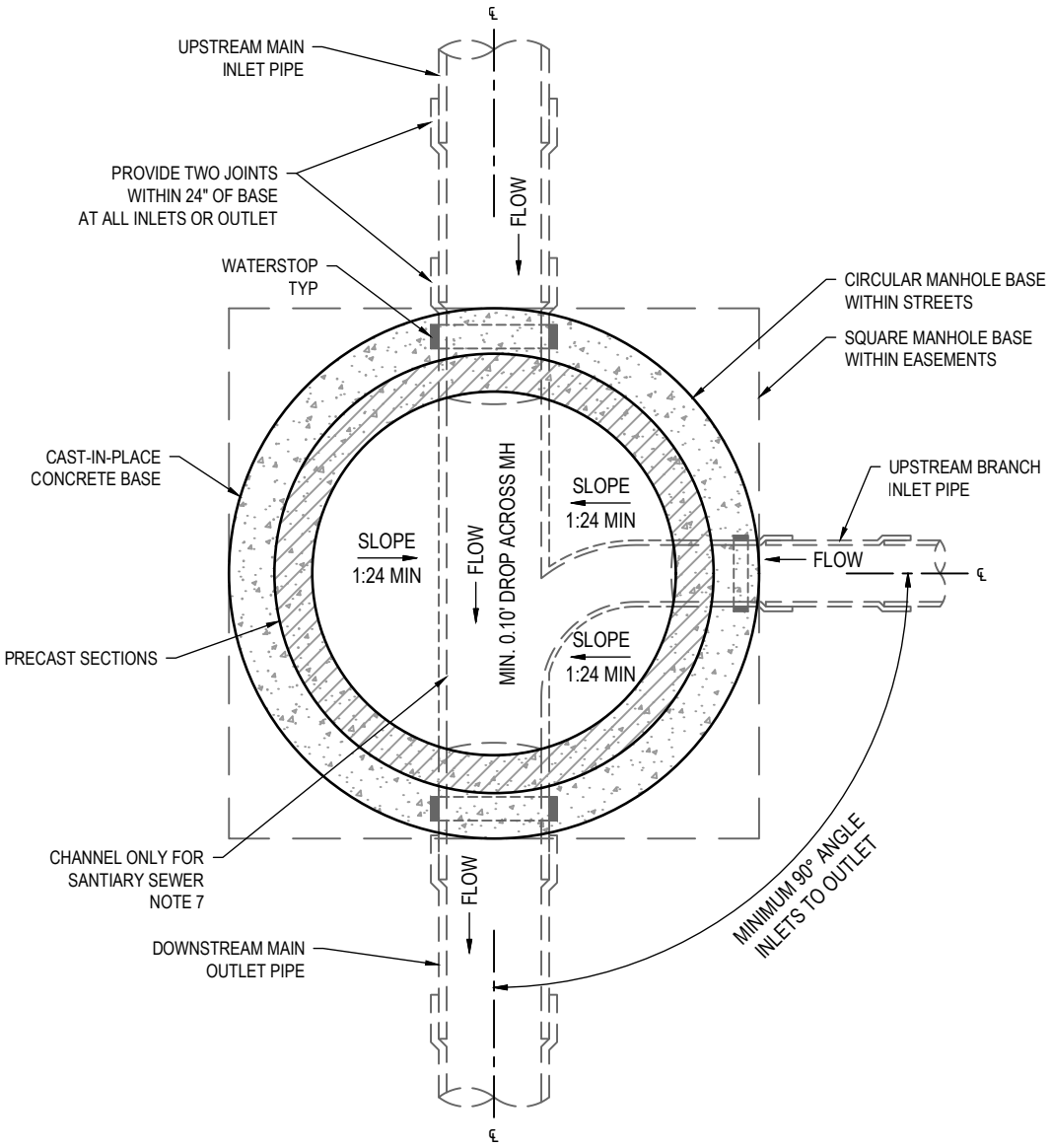
1. THIS MANHOLE BASE SHALL BE USED FOR MAIN PIPES OF UP TO 33" DIAMETER.
2. BEDDING THICKNESS AND TYPE SHALL BE AS RECOMMENDED PER PROJECT SPECIFIC GEOTECHNICAL ENGINEER RECOMMENDATIONS AND APPROVED BY PUBLIC WORKS DIRECTOR. PARTICULAR ATTENTION SHALL BE PAID TO BEDDING WITHIN BAY MUD.
3. CAST-IN-PLACE CONCRETE BASE SHALL BE FORMED CIRCULAR WITHIN STREETS OR SQUARE WITHIN EASEMENTS.
4. SOFFIT ELEVATION OF ALL INLET PIPES SHALL SHALL BE NO LESS THAN THE SOFFIT ELEVATION OF THE OUTLET PIPE, EXCEPT FOR OVERFLOW OUTLETS OR DROP INLETS.
5. ALL MANHOLES SHALL PROVIDE A MINIMUM 0.10' DROP ACROSS THE MANHOLE FROM INLET TO OUTLET.
6. FLOOR OF MANHOLE SHALL BE SLOPED A MINIMUM ½" PER FOOT TOWARD THE FLOWLINE. PROVIDE LEDGES AND CHANNELIZE BASE ONLY FOR SANITARY SEWER MANHOLES. SEE CITY DETAIL U-4 FOR PLAN.
7. WATERSTOPS SHALL BE PROVIDED ON ALL INLET AND OUTLET PIPE ENTRY POINTS. WATERSTOPS SHALL BE INSTALLED PER PIPE MANUFACTURER RECOMMENDATIONS.
8. ALL PRECAST SECTIONS SHALL CONFORM TO ASTM C-478 SPECIFICATIONS.
9. FRAME AND BASE SHALL BE SET TO THE PRECAST SECTIONS WITH 1:3 MORTAR MIX.
10. ALL JOINTS SHALL BE SEALED WITH GROUT, RAM-NEK SEAL, OR APPROVED EQUAL.
11. MANHOLE FRAME AND COVER SHALL CONFORM TO CITY DETAIL U-5 & U-6.
12. MANHOLE COLLAR AND SURFACE TREATMENT SHALL CONFORM TO CITY DETAIL U-6.

CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
SHALLOW MANHOLE (UP TO 33-INCH)

DATE
8/17/2022

SHEET
U-3



MANHOLE BASE PLAN

NOTES:

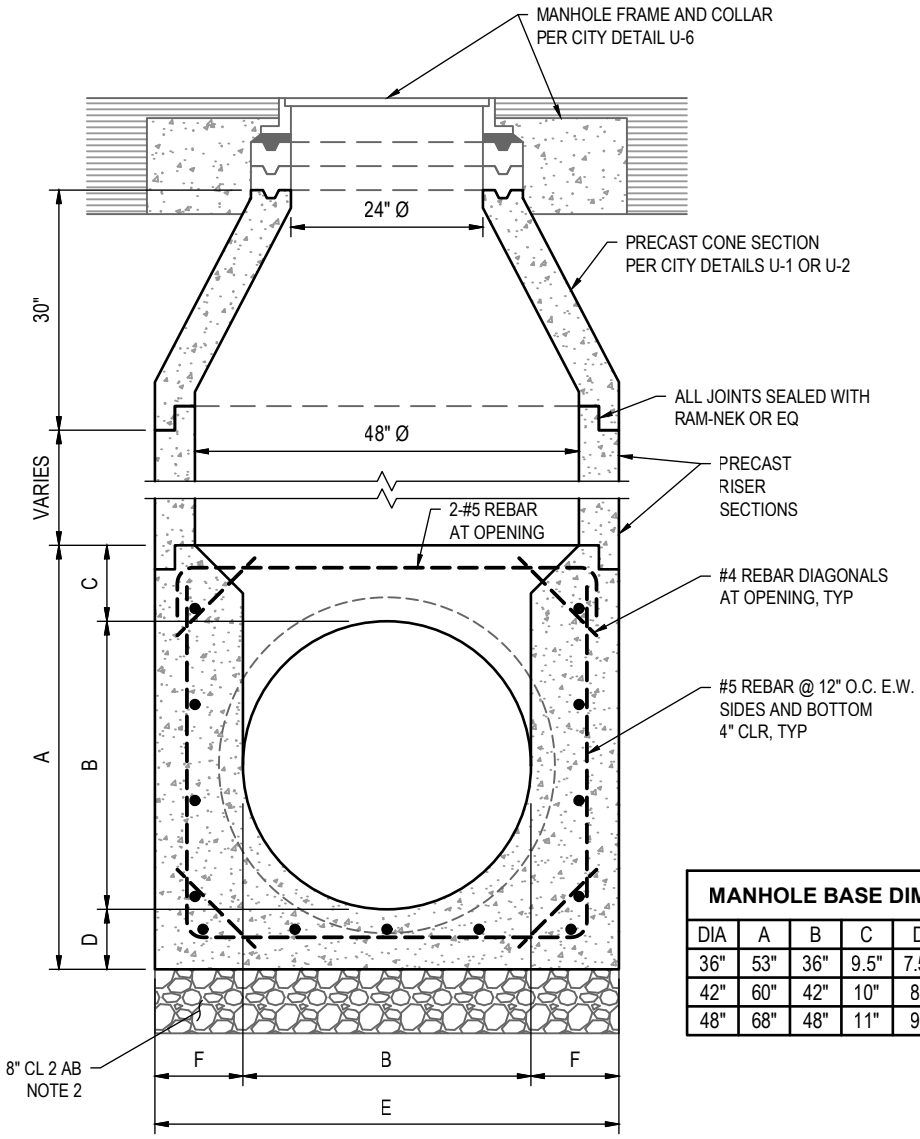
1. THIS MANHOLE BASE SHALL BE USED FOR MAIN PIPES OF UP TO 33" DIAMETER.
2. CAST-IN-PLACE CONCRETE BASE SHALL BE CLASS A 6-SACK PER CALTRANS STANDARDS PLACED AGAINST UNDISTURBED EARTH OR APPROVED BACKFILL MATERIAL AT 95% COMPACTION.
3. BASE SHALL BE SET TO THE PRECAST SECTIONS WITH 1:3 MORTAR MIX.
4. PRECAST SECTIONS SHALL CONFORM TO ASTM C-478 SPECIFICATIONS.
5. WATERSTOPS SHALL BE PROVIDED ON ALL INLET AND OUTLET PIPE ENTRY POINTS. WATERSTOPS SHALL BE A-LOK, KORE-N-SEAL, OR APPROVED EQUAL WITH GROUT AROUND WATERSTOP.
6. ALL MANHOLES SHALL PROVIDE A MINIMUM 0.10' DROP ACROSS THE MANHOLE.
7. SOFFIT ELEVATION OF ALL INLET PIPES SHALL SHALL BE NO LESS THAN THE SOFFIT ELEVATION OF THE OUTLET PIPE, EXCEPT FOR OVERFLOW OUTLETS.
8. CHANNELIZE BASE ONLY FOR SANITARY SEWER MANHOLES.

CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
STANDARD MANHOLE BASE (UP TO 33-INCH)

DATE
8/17/2022

SHEET
U-4



MANHOLE BASE DIMENSIONS						
DIA	A	B	C	D	E	F
36"	53"	36"	9.5"	7.5"	58"	11"
42"	60"	42"	10"	8"	60"	9"
48"	68"	48"	11"	9"	66"	9"

MANHOLE SECTION
(36"-48" MAINS)

NOTES:

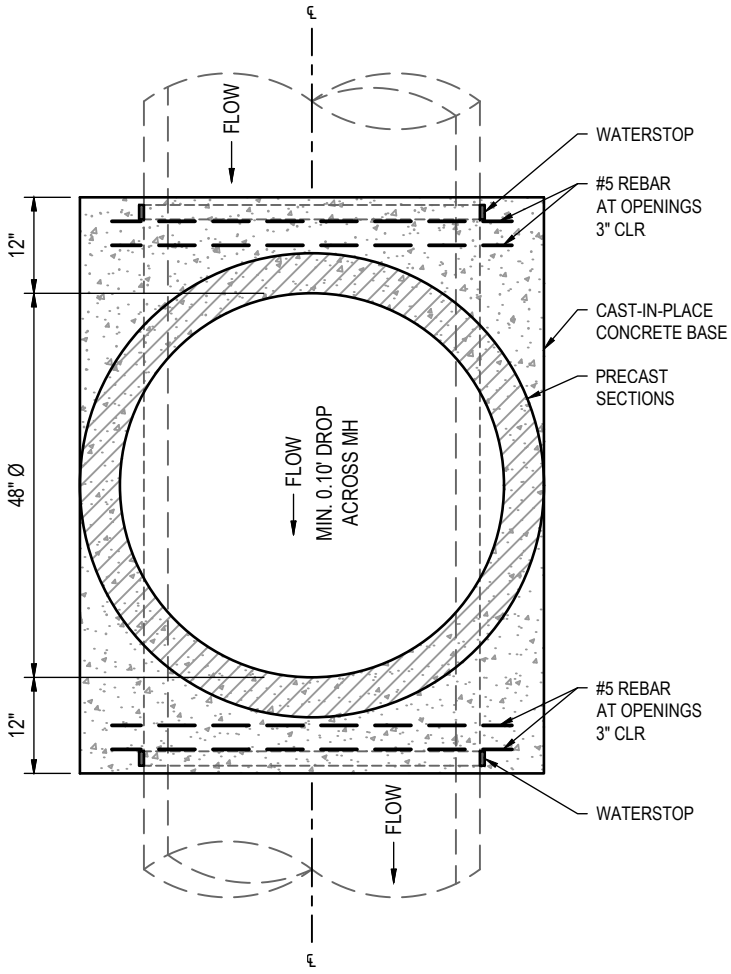
1. THIS MANHOLE BASE SHALL BE USED FOR MAIN PIPES OF 36" TO 48" DIAMETER.
2. BEDDING THICKNESS AND TYPE SHALL BE AS RECOMMENDED PER PROJECT SPECIFIC GEOTECHNICAL ENGINEER RECOMMENDATIONS AND APPROVED BY PUBLIC WORKS DIRECTOR. PARTICULAR ATTENTION SHALL BE PAID TO BEDDING WITHIN BAY MUD.
3. SOFFIT ELEVATION OF ALL INLET PIPES SHALL SHALL BE NO LESS THAN THE SOFFIT ELEVATION OF THE OUTLET PIPE, EXCEPT FOR OVERFLOW OUTLETS OR DROP INLETS.
4. ALL MANHOLES SHALL PROVIDE A MINIMUM 0.10' DROP ACROSS THE MANHOLE FROM INLET TO OUTLET.
5. FLOOR OF MANHOLE SHALL BE SLOPED A MINIMUM ½" PER FOOT TOWARD THE FLOWLINE. PROVIDE LEDGES AND CHANNELIZE BASE ONLY FOR SANITARY SEWER MANHOLES. SEE CITY DETAIL U-5B FOR PLAN.
6. WATERSTOPS SHALL BE PROVIDED ON ALL INLET AND OUTLET PIPE ENTRY POINTS. WATERSTOPS SHALL BE INSTALLED PER PIPE MANUFACTURER RECOMMENDATIONS.
7. ALL PRECAST SECTIONS SHALL CONFORM TO ASTM C-478 SPECIFICATIONS.
8. FRAME AND BASE SHALL BE SET TO THE PRECAST SECTIONS WITH 1:3 MORTAR MIX.
9 ALL JOINTS SHALL BE SEALED WITH GROUT, RAM-NEK SEAL, OR APPROVED EQUAL.
10. MANHOLE FRAME AND COVER SHALL CONFORM TO CITY DETAIL U-5 & U-6.
11 MANHOLE COLLAR AND SURFACE TREATMENT SHALL CONFORM TO CITY DETAIL U-6.

CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
MANHOLE BASE SECTION
(36 TO 48-INCH)

DATE
8/17/2006

SHEET
U-5A



MANHOLE PLAN

NOTES:

1. THIS MANHOLE BASE SHALL BE USED FOR MAIN PIPES OF 36" TO 48" DIAMETER.
2. CAST-IN-PLACE CONCRETE BASE SHALL BE CLASS A 6-SACK PER CALTRANS STANDARDS PLACED AGAINST UNDISTURBED EARTH OR APPROVED BACKFILL MATERIAL AT 95% COMPACTION.
3. BASE SHALL BE SET TO THE PRECAST SECTIONS WITH 1:3 MORTAR MIX.
4. PRECAST SECTIONS SHALL CONFORM TO ASTM C-478 SPECIFICATIONS.
5. PRECAST CONCENTRIC TAPER SECTION SHALL BE USED.
6. WATERSTOPS SHALL BE PROVIDED ON ALL INLET AND OUTLET PIPE ENTRY POINTS. WATERSTOPS SHALL BE A-LOK, KORE-N-SEAL, OR APPROVED EQUAL WITH GROUT AROUND WATERSTOP.
7. LAY CUT PIPE THROUGH MANHOLE MANHOLE AND CONFORM TO CONTOUR OF BASE.
8. ALL MANHOLES SHALL PROVIDE A MINIMUM 0.10' DROP ACROSS THE MANHOLE.
9. CROWN ELEVATION OF ALL INLET PIPES SHALL BE NO LESS THAN THE CROWN ELEVATION OF THE OUTLET PIPE, EXCEPT FOR OVERFLOW PIPES.

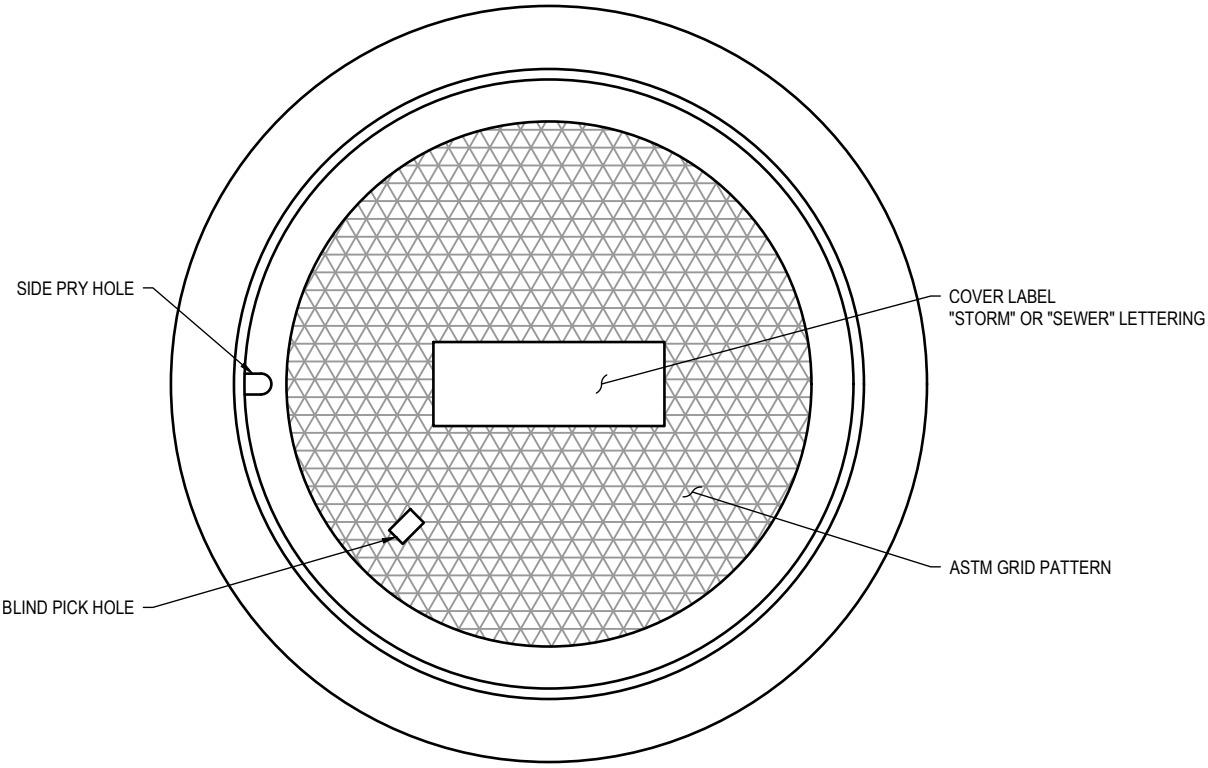
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

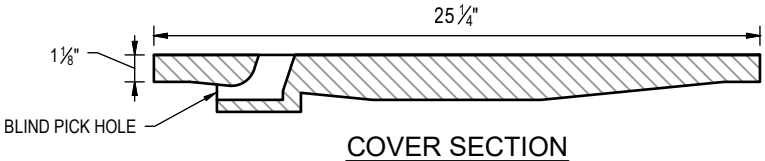
MANHOLE BASE PLAN (36 TO 48-INCH)

DATE
8/17/2022

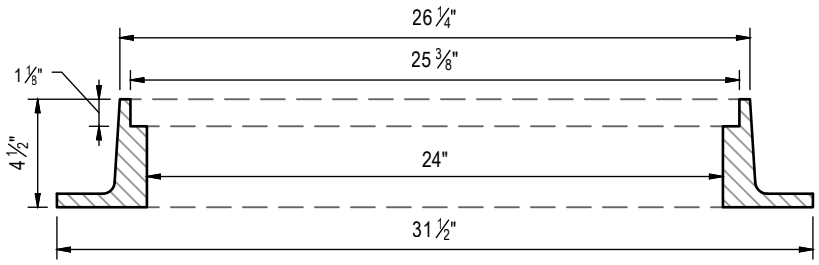
SHEET
U-5B



PLAN



COVER SECTION



FRAME SECTION

NOTES:

1. FRAME AND COVER SHALL BE SOUTH BAY FOUNDRY MODEL SBF1900, OR APPROVED EQUAL. ALL IRON WORKS SHALL MEET PERFORMANCE SPECIFICATIONS.
2. ALL MATERIAL USED IN MANUFACTURING SHALL CONFORM TO ASTM A48, CLASS 35B.
3. FRAME AND COVER SHALL BE RATED FOR H-20 LOADING.
3. COVER SHALL BE IMPRINTED WITH EITHER "STORM DRAIN" OR "SANITARY SEWER" MATCHING SYSTEM TYPE.

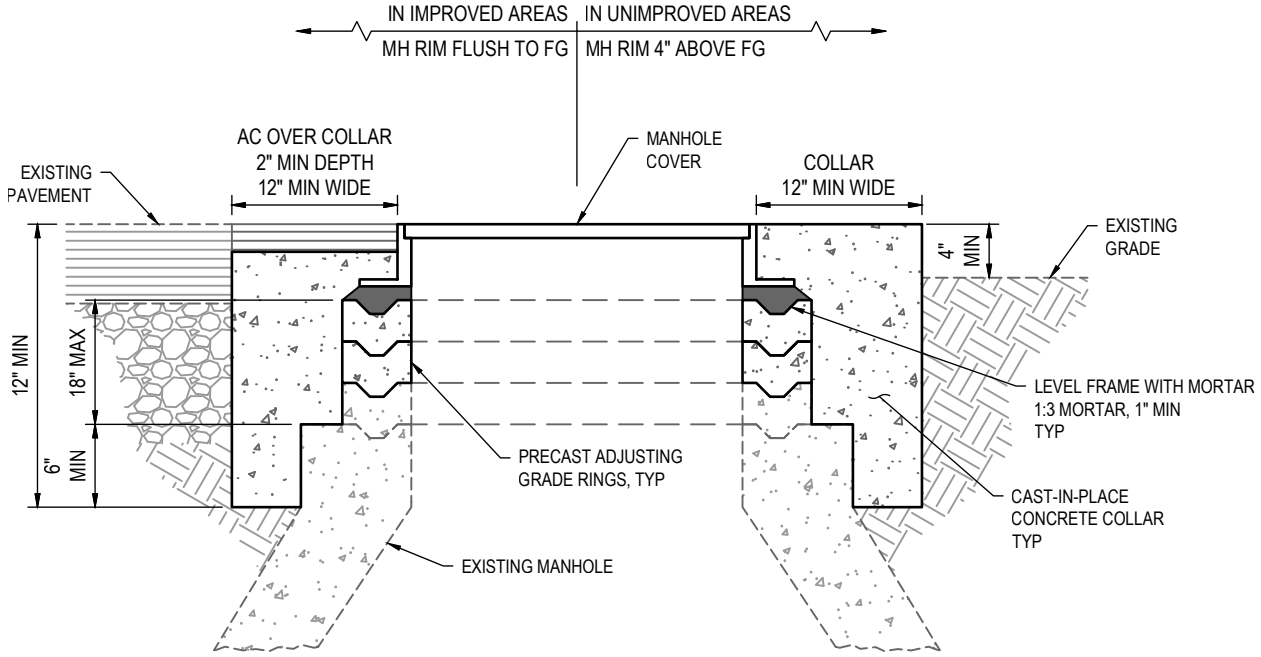
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

MANHOLE FRAME AND COVER

DATE
8/17/2022

SHEET
U-6



MANHOLE ADJUSTMENT TO GRADE

NOTES:

1. THIS DETAIL SHALL BE USED WHERE FRAME AND COVERS ARE BEING ADJUSTED TO GRADE.
2. FRAMES AND COVERS SHALL BE RAISED WITHIN 48 HOURS OF FINAL PAVING.
3. SEAL ALL JOINTS WITH RAM-NEK OR EQUAL.
4. GRADE RINGS SHALL BE A MAXIMUM OF 12" HIGH FOR NEW CONSTRUCTION AND MAXIMUM 18" HIGH FOR EXISTING MANHOLES. FOR ADJUSTMENTS THAT WOULD EXCEED 18" OF GRADE RINGS, THE MANHOLE SHALL HAVE NEW PRECAST RISER SECTIONS INSTALLED.
5. CONCRETE COLLAR SHALL BE PLACED AGAINST NEATLY EDGED EXCAVATION.
6. RAISE EXISTING MANHOLE TO BE FLUSH WITH EXISTING GRADE IN PAVED OR IMPROVED AREAS AND 4-INCHES ABOVE HIGHEST ADJACENT GRADE IN LANDSCAPED OR UNIMPROVED AREAS OR AS DIRECTED BY THE CITY INSPECTOR TO AVOID FUTURE BURIAL.

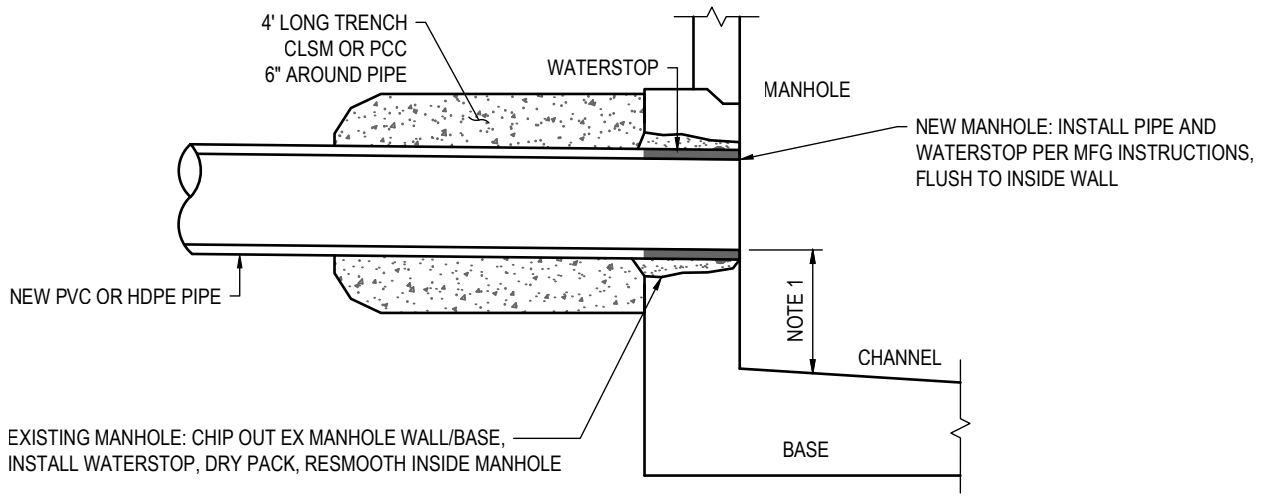
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

MANHOLE ADJUST TO GRADE

DATE
8/17/2022

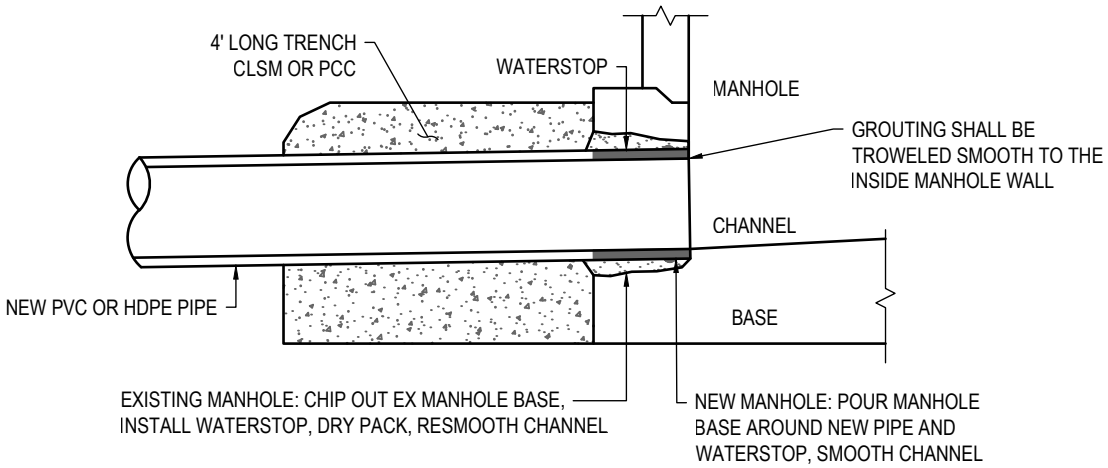
SHEET
U-7



INLET PIPE CONNECTION DETAIL

NOTES:

1. INLET PIPE CONNECTION ALLOWED FOR STORM DRAIN SYSTEMS.
2. INLET PIPE CONNECTION ALLOWED FOR SANITARY SEWER SYSTEMS WHERE INLET INVERT IS LESS THAN 18" ABOVE OUTLET INVERT; OTHERWISE, REFER TO DROP CONNECTION DETAIL. SHAPE AND SLOPE NEW INVERT CHANNEL IN EXISTING STRUCTURES FOR SMOOTH FLOW FROM SANITARY SEWER CONNECTION.
3. WATERSTOPS SHALL BE INSTALLED PER PIPE MANUFACTURER RECOMMENDATIONS.



OUTLET PIPE CONNECTION DETAIL

NOTES:

1. WATERSTOPS SHALL BE INSTALLED PER PIPE MANUFACTURER RECOMMENDATIONS.

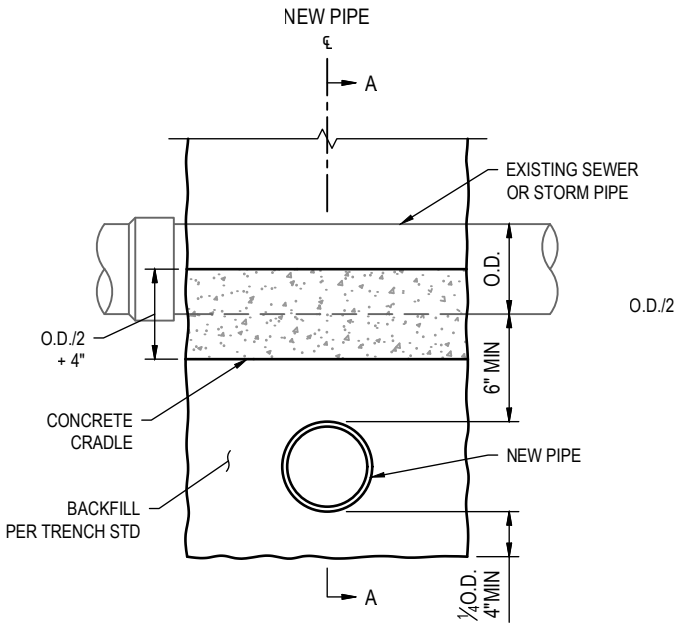
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

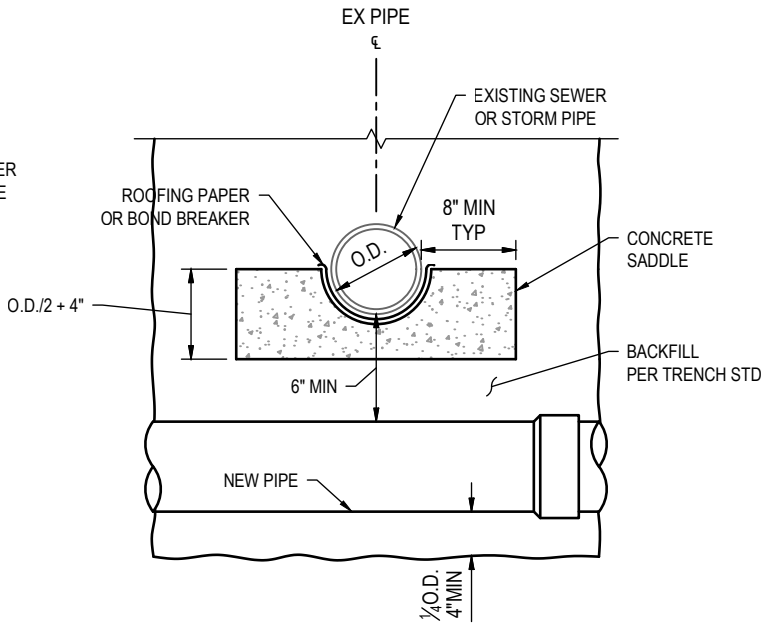
PIPE CONNECTION TO MANHOLE

DATE
8/17/2022

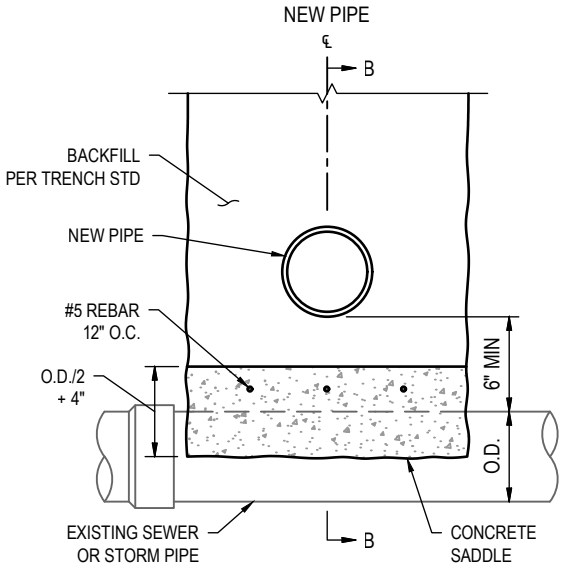
SHEET
U-8



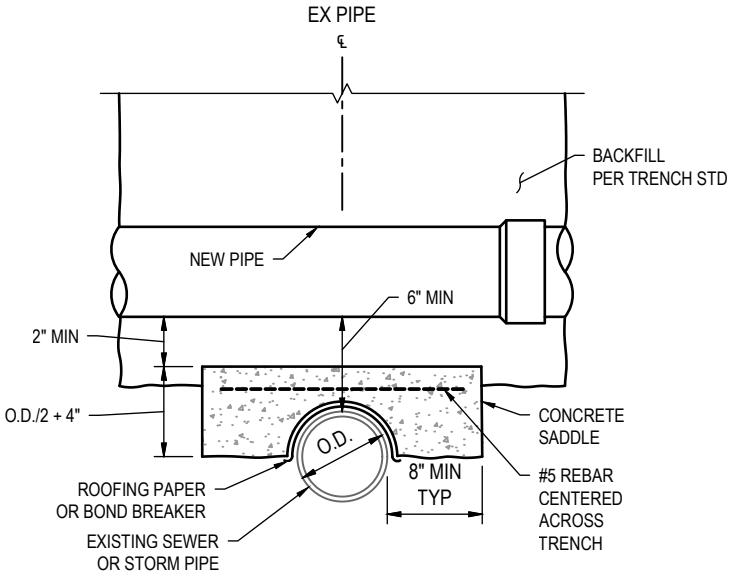
NEW PIPE UNDER
EXISTING PIPE



SECTION A-A



NEW PIPE OVER
EXISTING PIPE



SECTION B-B

NOTES:

1. PIPE CROSSINGS WITH VERTICAL CLEARANCE BETWEEN 6" TO 12" SHALL COMPLY WITH THE ABOVE DETAILS. UNDER NO CASE SHALL THE VERTICAL CLEARANCES BETWEEN STORM DRAIN AND SANITARY SEWER PIPES BE LESS THAN 6".
2. FOR SANITARY SEWERS CROSSING WATER MAINS, VERTICAL CLEARANCE AND CROSSING DETAIL SHALL COMPLY WITH CALIFORNIA WATER SERVICE COMPANY OR SAN FRANCISCO PUBLIC UTILITY COMMISSION AS APPLICABLE.
3. TRENCH BACKFILL AND RESTORATION SHALL CONFORM TO CITY STANDARD DETAILS R-1 THRU R-5.

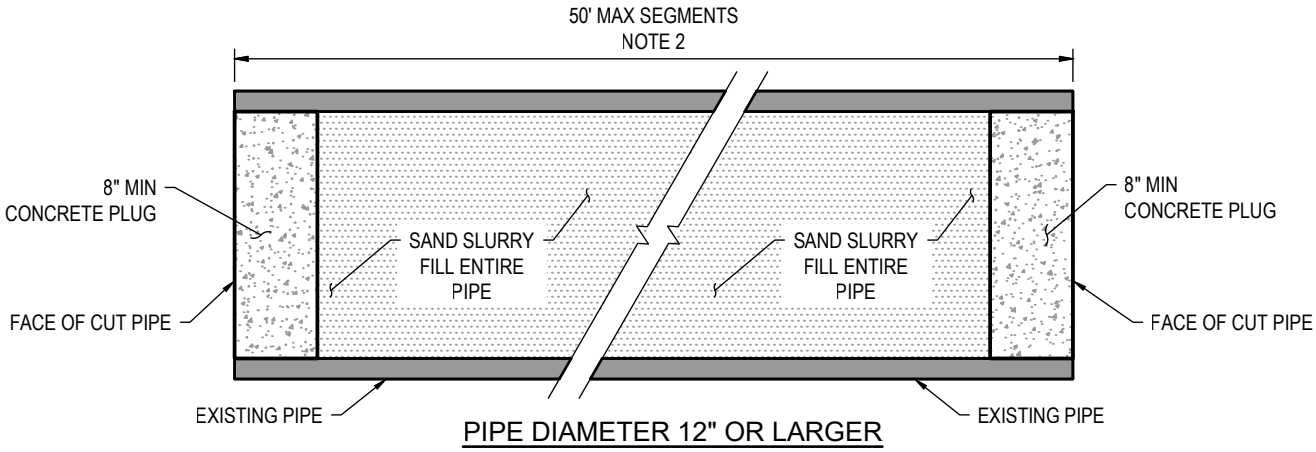
CITY OF SAN MATEO CALIFORNIA

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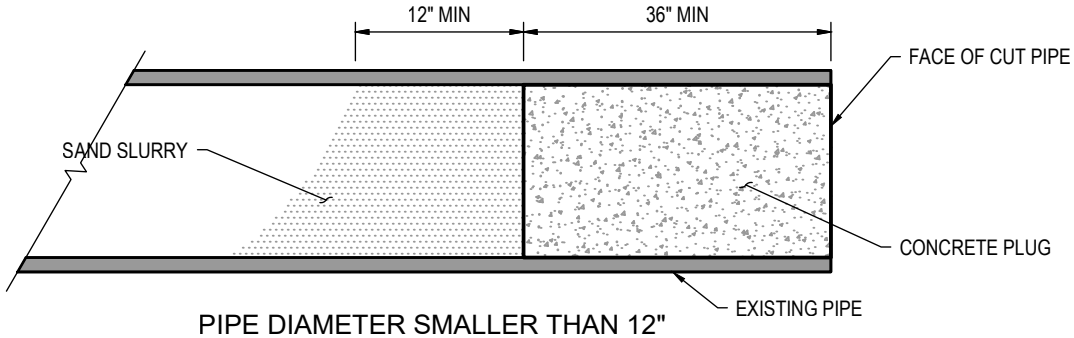
PIPE CROSSING

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8/17/2022

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PIPE DIAMETER 12" OR LARGER



PIPE DIAMETER SMALLER THAN 12"

NOTES:

1. ALL PIPE PLUGS SHALL BE INSTALLED TO THE SATISFACTION OF THE PUBLIC WORKS INSPECTOR.
2. ABANDONED PIPES, 12" OR LARGER, SHALL BE BROKEN INTO 50' SEGMENTS AND COMPLETELY FILLED WITH SAND SLURRY.
3. FOR SERVICE LATERALS AT MAIN, CUT OUT AND REMOVE MAIN SECTION AND REPLACE WITH NEW MAIN PIPE, CAP AND ABANDON SERVICE LATERAL PER THE ABOVE DETAILS.
4. FOR ALL PIPE ABANDONMENT IN BAY MUD OR EAST OF US-101, ALL PIPE SIZES SHALL BE ENTIRELY FILLED WITH SAND SLURRY AND PLUGGED.

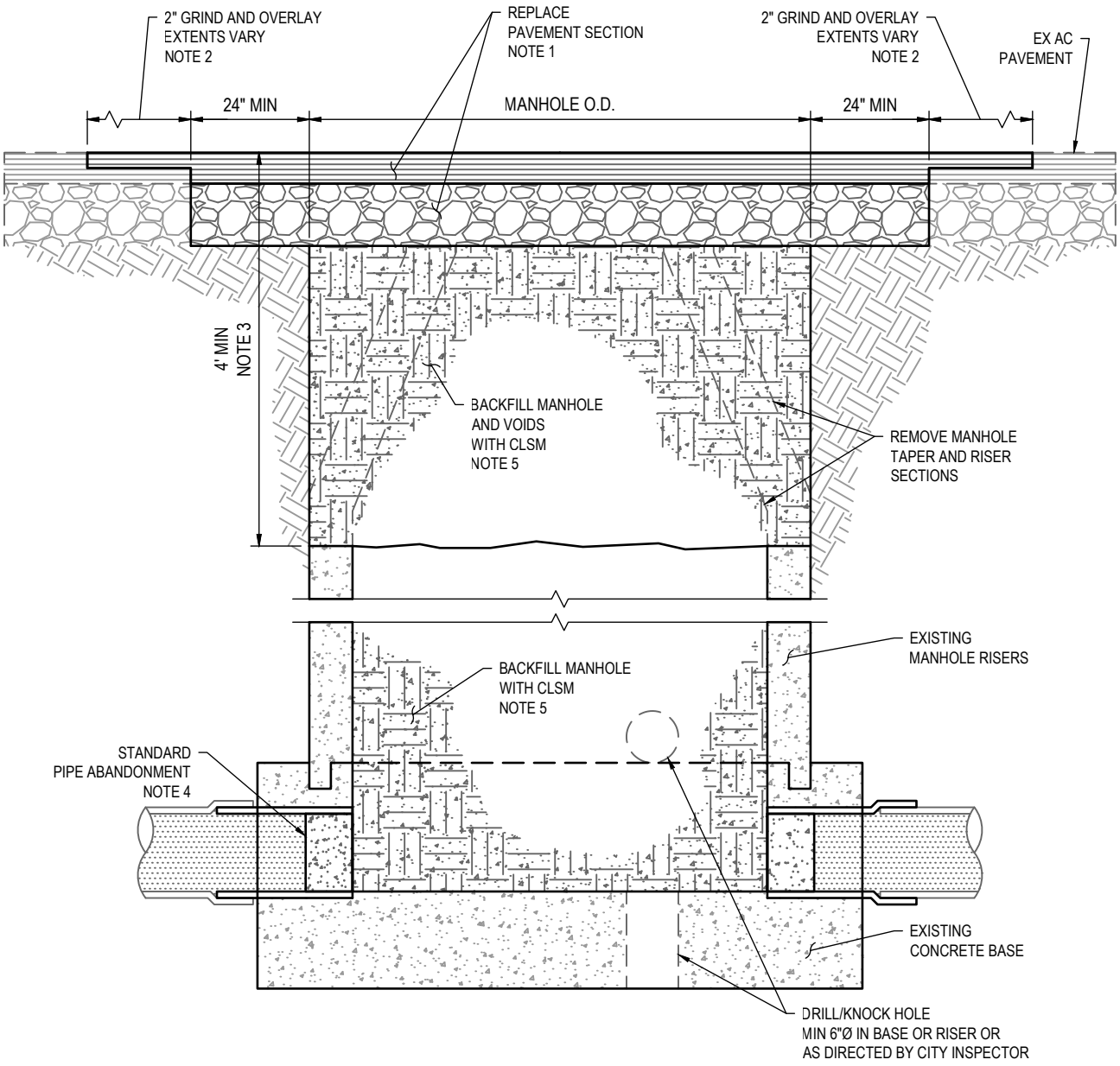
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DEPARTMENT OF PUBLIC WORKS

PIPE ABANDONMENT

DATE
8/17/2022

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U-10



MANHOLE ABANDONMENT SECTION

NOTES:

1. "T" CUT RESTORATION SHALL EXTEND 24" BEYOND THE OUTER DIAMETER OF THE MANHOLE. REMOVE AND REPLACE THE PAVEMENT SECTION MATCH EXISTING (6" AC MINIMUM). BASE LAYER SHALL BE CLASS 2 AGGREGATE BASE MATCHING THE EXISTING BASE LAYER OR 8" MINIMUM. WHERE THE "T" CUT EDGE IS WITHIN 3' OF THE ADJACENT CURB AND GUTTER, THE "T" CUT SHALL BE EXTENDED TO THE ADJACENT CURB OR GUTTER.
2. A 2" GRIND AND OVERLAY SHALL BE REQUIRED FOR ALL TRENCH RESTORATION IN THE ROADWAY. EXTENTS SHALL BE PER STANDARD DETAILS R-6A THROUGH R-6C.
3. REMOVE FRAME, COVER, TAPER, AND RISER SECTIONS DOWN TO A MINIMUM 4' FROM THE SURFACE.
4. PLUG ALL PIPES OPENINGS, INLETS, AND OUTLETS PER STANDARD PIPE ABANDONMENT DETAIL U-9.
5. AFTER PLUGGING ALL PIPES CONNECTED TO THE MANHOLE, BACKFILL THE REMAINDER OF THE MANHOLE AND ALL OTHER VOIDS WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM).

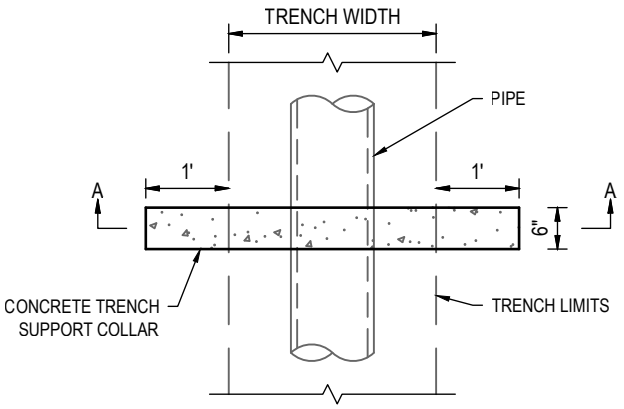
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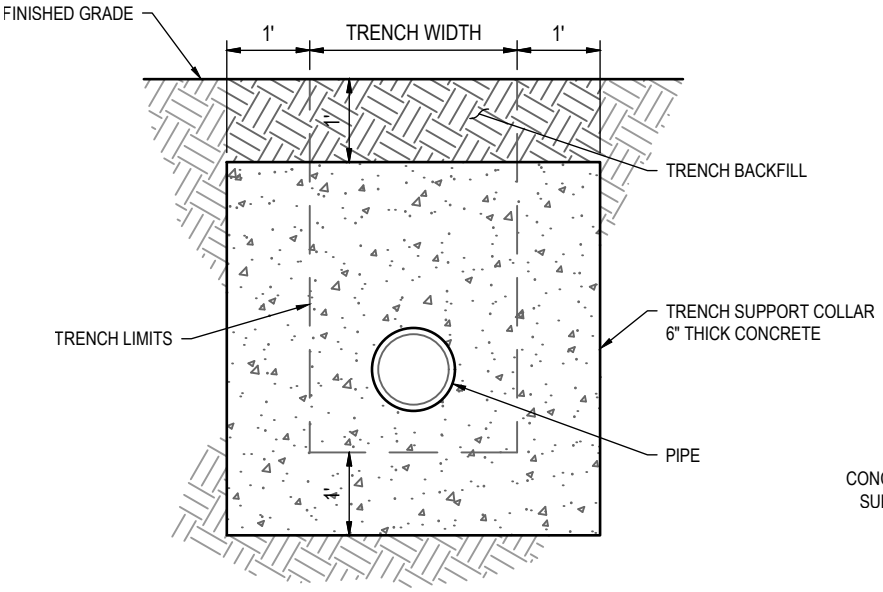
MANHOLE ABANDONMENT

DATE
8/17/2022

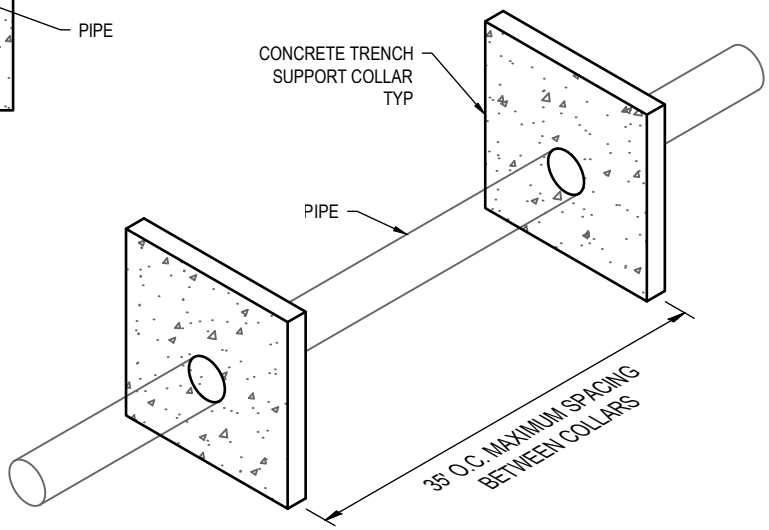
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U-11



PLAN



SECTION A-A



ISOMETRIC VIEW

NOTES:

1. TRENCH SUPPORT COLLARS TO BE PROVIDED FOR PIPES INSTALLED ON SLOPES OF 30% OR GREATER.
2. MAXIMUM SPACING BETWEEN COLLARS SHALL BE 35' ON CENTER.

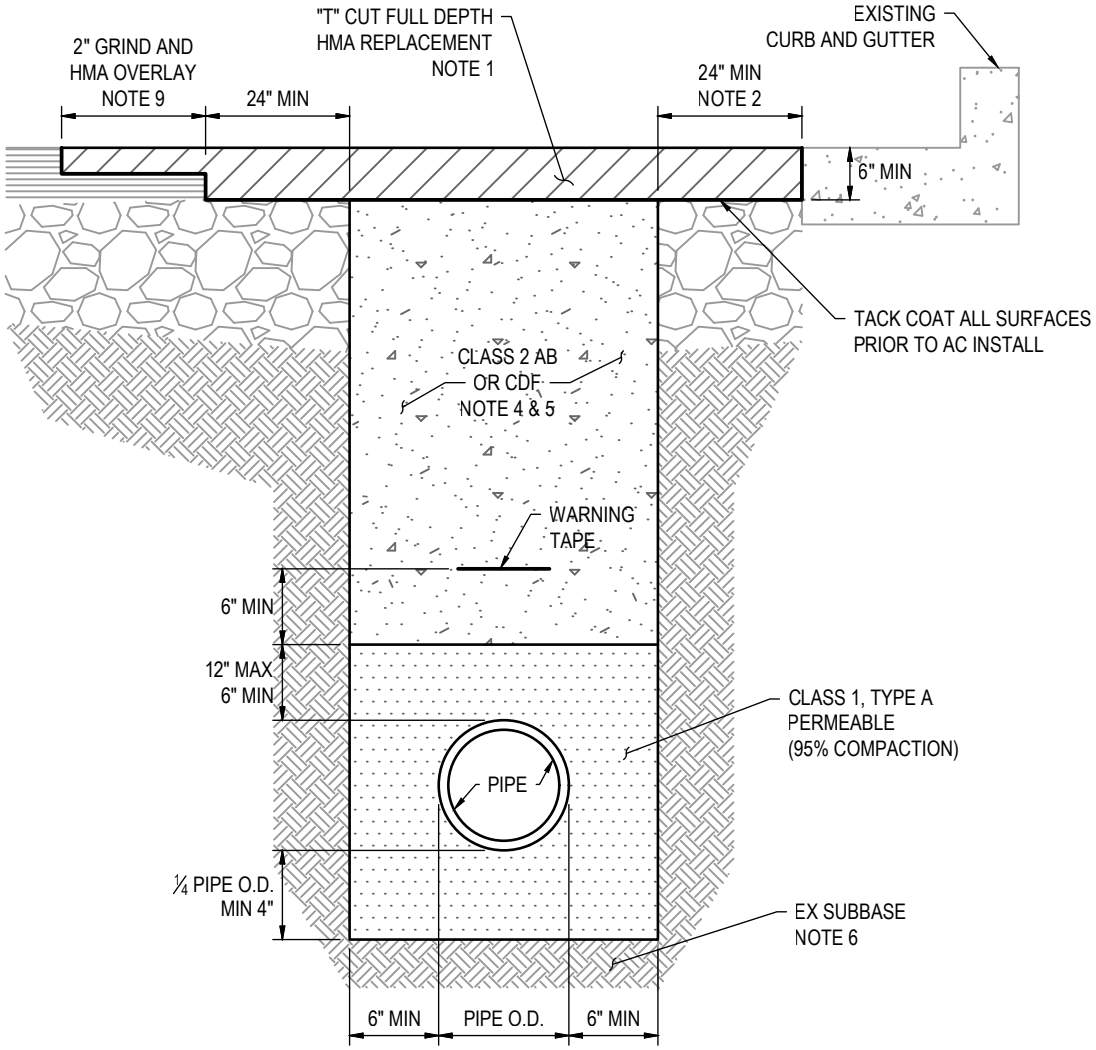
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DEPARTMENT OF PUBLIC WORKS

TRENCH SUPPORT COLLAR

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U-12



TRENCH SECTION
(TYPICAL STREETS)

NOTES:

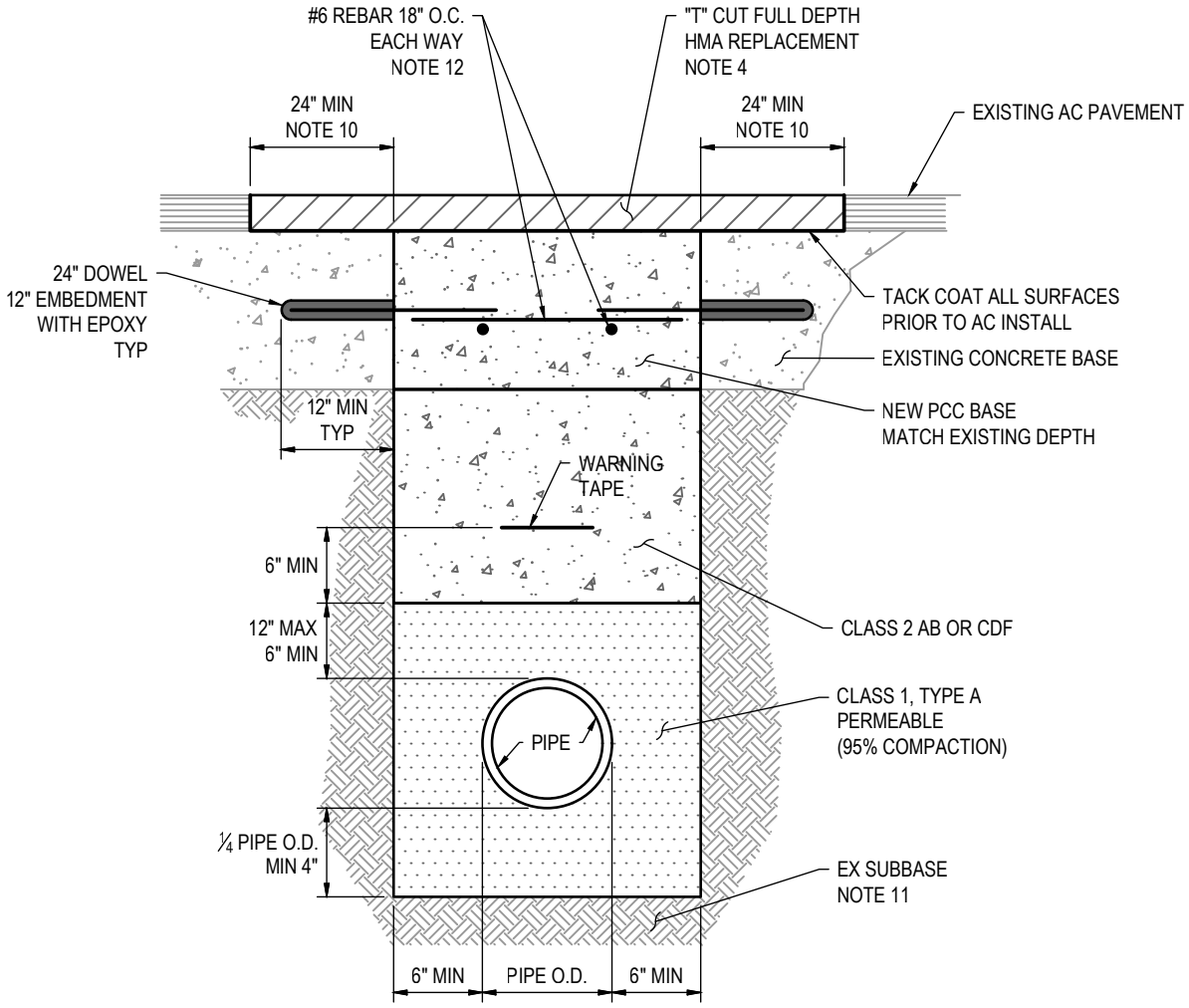
1. "T" CUT SHALL CONSIST OF REMOVAL AND REPLACEMENT WITH HOT MIX ASPHALT FOR FULL DEPTH OF THE EXISTING ASPHALT CONCRETE LAYER OR 6" MINIMUM, WHATEVER IS GREATER.
2. WHERE THE "T" CUT EDGE IS WITHIN 3' OF THE ADJACENT CURB AND GUTTER, THE "T" CUT SHALL BE EXTENDED TO THE ADJACENT CURB OR GUTTER.
3. ALL STRIPING OR SIGNAGE DISTURBED BY THE PROJECT SHALL BE RESTORED TO CITY STANDARDS. SEE CITY DETAIL C-1.
4. FOR PAVED AREAS, BACKFILL SHALL BE CLASS 2 AGGREGATE BASE AT 95% COMPACTION. CONTROLLED DENSITY FILL (CDF) SHALL REQUIRE PUBLIC WORKS DIRECTOR APPROVAL.
5. FOR UNPAVED AREAS, SELECT BACKFILL MATERIAL SHALL BE MATERIAL FROM EXCAVATION, FREE FROM STONES OR LUMPS EXCEEDING 3" IN GREATEST DIMENSION, VEGETATION MATTER, OR UNSATISFACTORY MATERIAL.
6. WHERE UNSUITABLE SUBBASE MATERIAL IS ENCOUNTERED, TRENCH SHALL OVEREXCAVATE BY 12" AND BACKFILL WITH CLASS 1, TYPE A PERMEABLE MATERIAL.
7. PRIOR TO FINISHING THE WORK DAY, OPEN TRENCHES SHALL BE PLATED OR BACKFILLED AND PAVED WITH EXISTING PAVEMENT.
8. ASPHALT TYPE SHALL MATCH EXISTING ASPHALT. IF TYPE A, HOT MIX ASPHALT SHALL MEET 2010 CALTRANS STANDARD SPECIFICATIONS SECTION 39 (15% RAP)
9. PAVEMENT RESTORATION LIMITS SHALL CONFORM TO CITY STANDARD DETAILS R-6A THRU R-6C
10. ADDITIONAL MORATORIUM PAVING OR SLURRY SEAL MAY APPLY PER SMMC 17.32.

DEPARTMENT OF PUBLIC WORKS

UTILITY TRENCH (TYPICAL STREETS)

DATE
8/17/2022

SHEET
R-1



TRENCH SECTION
(CONCRETE BASE STREETS)

NOTES:

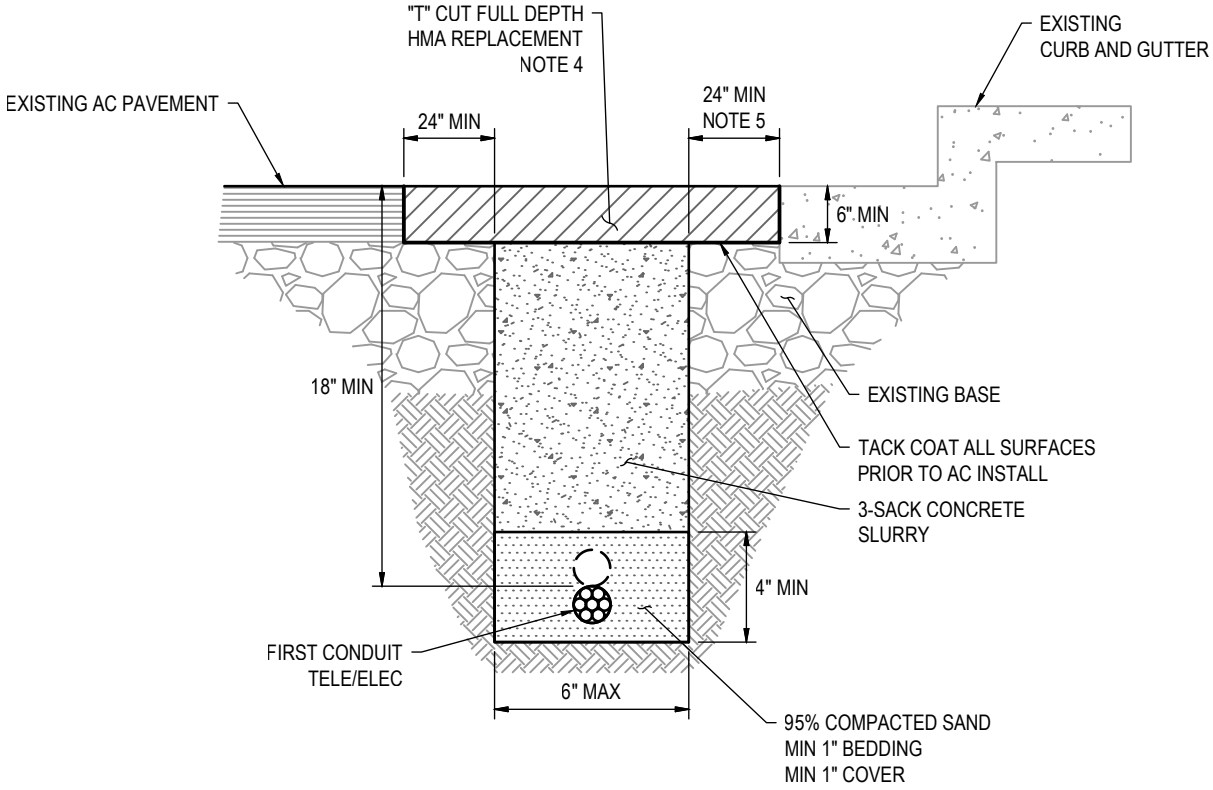
1. THIS DETAIL APPLIES TO ALL EXCAVATIONS ON CONCRETE BASE STREETS.
2. SAWCUT FULL CONCRETE BASE DEPTH PRIOR TO TRENCHING.
3. BORE 12" MINIMUM INTO EXISTING CONCRETE BASE SLAB AND INSTALL #6 REBAR WITH EPOXY AS SHOWN. EPOXY SHALL CONFORM TO CALTRANS SPECIFICATIONS.
4. "T" CUT SHALL CONSIST OF REMOVAL AND REPLACEMENT WITH NEW CONCRETE OF FULL DEPTH OF THE EXISTING CONCRETE.
5. WHERE THE "T" CUT EDGE IS WITHIN 3' OF THE ADJACENT CURB, GUTTER OR EDGE OF PAVEMENT, THE "T" CUT SHALL BE EXTENDED TO THE ADJACENT CURB, GUTTER OR EDGE OF PAVEMENT.
6. ALL STRIPING OR SIGNAGE DISTURBED BY THE PROJECT SHALL BE RESTORED TO CITY STANDARDS. SEE CITY DETAIL C-1.
7. CONCRETE SHALL BE 3,500 PSI, 5.5 SACK, 1.5" MAX COARSE AGGREGATE.
8. PRIOR TO FINISHING THE WORK DAY, OPEN TRENCHES SHALL BE PLATED OR BACKFILLED AND PAVED WITH HMA. ON ARTERIAL STREETS, PLATES SHALL BE TACK-WELDED TOGETHER AND SHALL BE RECESSED TO BE FLUSH WITH EXISTING PAVEMENT.
9. ASPHALT TYPE SHALL MATCH EXISTING ASPHALT. IF TYPE A, HOT MIX ASPHALT SHALL MEET 2010 CALTRANS STANDARD SPECIFICATIONS SECTION 39 (15% RAP)
10. PAVEMENT RESTORATION LIMITS SHALL CONFORM TO CITY STANDARD DETAILS R-6A THRU R-6C
11. WHERE UNSUITABLE SUBBASE MATERIAL IS ENCOUNTERED, TRENCH SHALL OVEREXCAVATE BY 12" AND BACKFILL WITH CLASS 1, TYPE A PERMEABLE MATERIAL.
12. FOR TRENCHES LESS THAN 12" WIDE, STAGGER REBAR 9" O.C.
13. CONCRETE SHALL CURE MINIMUM 5 DAYS PRIOR TO PAVING.
14. ADDITIONAL MORATORIUM PAVING OR SLURRY SEAL MAY APPLY PER SMMC 17.32.

CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
UTILITY TRENCH
(CONCRETE BASE STREET)

DATE
8/17/2022~~8/6~~

SHEET
R-2



ROCKWHEEL TRENCH SECTION

NOTES:

1. ROCKWHEEL TRENCHES SHALL ONLY BE USED TO INSTALL TELECOMMUNICATION OR ELECTRICAL CONDUITS IN ASPHALT CONCRETE ROADWAYS.
2. ROCKWHEEL TRENCHES ARE NOT ALLOWED ON OR THROUGH CONCRETE BASE STREETS, SIDEWALKS, PARKWAYS, CURBS, GUTTERS, OR LATERALS UNLESS APPROVED BY THE CITY.
3. CONTRACTOR SHALL POTHOLE ANY CROSSING UTILITY OR PARALLEL UTILITY (INCLUDING LATERALS) WITHIN 18-INCH OF PROPOSED ALIGNMENT TO A DEPTH OF 6-INCHES BELOW THE BOTTOM OF THE ROCKWHEEL TRENCH. POTHOLES SHALL BE IMMEDIATELY FILLED.
4. "T" CUT SHALL CONSIST OF REMOVAL AND REPLACEMENT WITH HOT MIX ASPHALT FOR FULL DEPTH OF THE EXISTING ASPHALT CONCRETE LAYER OR 6" MINIMUM, WHICHEVER IS GREATER.
5. THE EDGE OF THE ROCKWHEEL TRENCH SHALL HAVE A 2' MINIMUM HORIZONTAL CLEARANCE TO THE LIP OF GUTTER OR FACE OF CURB WHERE NO GUTTER EXISTS.
6. WHERE THE "T" CUT EDGE IS WITHIN 3' OF THE ADJACENT CURB AND GUTTER, THE "T" CUT SHALL BE EXTENDED TO THE ADJACENT CURB OR GUTTER.
7. UP TO TWO (2) CONDUITS MAY BE VERTICALLY STACKED CONDUITS PER ROCKWHEEL TRENCH.
8. ALL STRIPING OR SIGNAGE DISTURBED BY THE PROJECT SHALL BE RESTORED TO CITY STANDARDS. SEE CITY DETAIL C-1.
9. PRIOR TO FINISHING THE WORK DAY, OPEN TRENCHES SHALL BE PLATED OR BACKFILLED AND PAVED WITH EXISTING PAVEMENT.
10. ASPHALT TYPE SHALL MATCH EXISTING ASPHALT. IF TYPE A, HOT MIX ASPHALT SHALL MEET 2010 CALTRANS STANDARD SPECIFICATIONS SECTION 39 (15% RAP)
11. PAVEMENT RESTORATION LIMITS SHALL CONFORM TO CITY STANDARD DETAILS R-6A THRU R-6C
12. ADDITIONAL MORATORIUM PAVING OR SLURRY SEAL MAY APPLY PER SMMC 17.32.

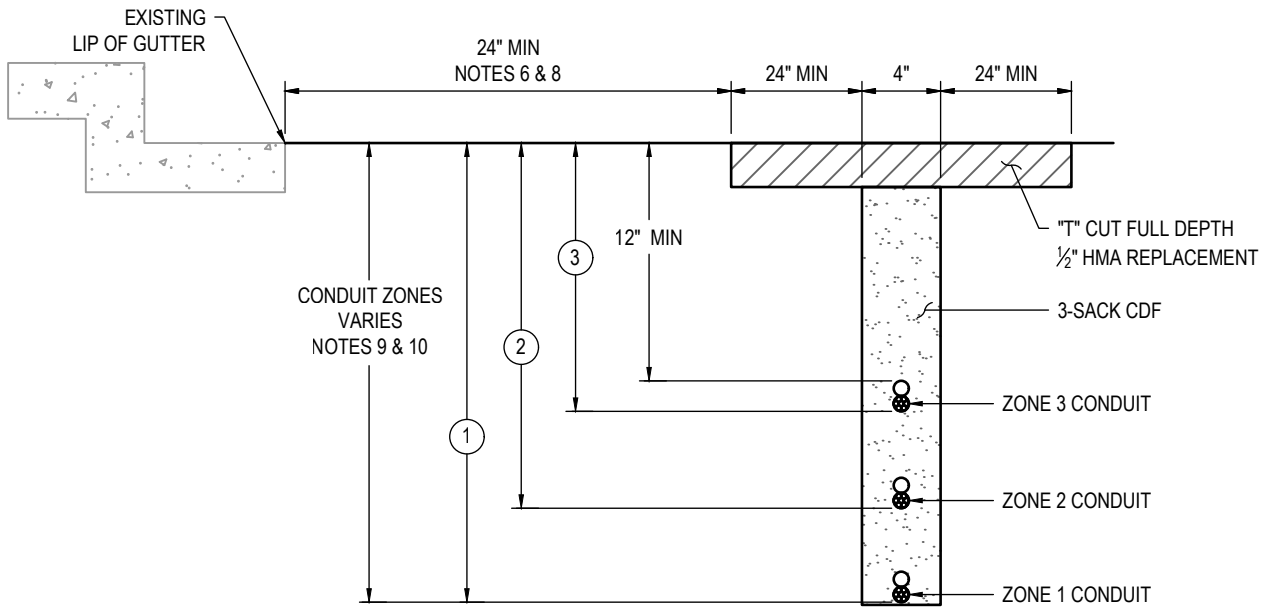
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

ROCKWHEEL TRENCH

DATE
MM/DD/YYYY

SHEET
R-3



SECTION VIEW

CONDUIT DEPTH TABLE	
ZONE	CONDUIT DEPTH
(1)	20" - 26"
(2)	16" - 20"
(3)	12" - 16"

NOTES:

1. MICROTRENCHING SHALL ONLY BE USED TO INSTALL TELECOMMUNICATION OR ELECTRICAL CONDUITS IN ASPHALT CONCRETE ROADWAYS.
2. MICROTRENCHING IS NOT ALLOWED ON OR THROUGH CONCRETE BASE STREETS, SIDEWALKS, PARKWAYS, CURBS, GUTTERS, OR LATERALS UNLESS APPROVED BY THE CITY.
3. CONTRACTOR SHALL IDENTIFY ALL EXISTING UTILITIES, INCLUDING SERVICE CONNECTIONS, IN THE FIELD.
4. CONTRACTOR SHALL POTHOLE ANY CROSSING UTILITY OR PARALLEL UTILITY (INCLUDING SEWER AND GAS LATERALS) WITHIN 18-INCH OF PROPOSED ALIGNMENT TO A DEPTH OF 6-INCHES BELOW THE BOTTOM OF THE MICROTRENCH. POTHOLES SHALL BE IMMEDIATELY BACKFILLED.
5. SAWCUT FULL CONCRETE BASE DEPTH PRIOR TO TRENCHING.
6. THE EDGE OF THE MICROTRENCH SHALL HAVE A 2' MINIMUM HORIZONTAL CLEARANCE TO THE LIP OF GUTTER OR FACE OF CURB WHERE NO GUTTER EXISTS.
7. "T" CUT SHALL CONSIST OF REMOVAL AND REPLACEMENT WITH HOT MIX ASPHALT FOR FULL DEPTH OF THE EXISTING ASPHALT CONCRETE LAYER OR 6" MINIMUM, WHATEVER IS GREATER.
8. WHERE THE "T" CUT EDGE IS WITHIN 3' OF THE ADJACENT CURB AND GUTTER, THE "T" CUT SHALL BE EXTENDED TO THE ADJACENT CURB OR GUTTER.
9. UP TO TWO (2) CONDUITS MAY BE VERTICALLY STACKED CONDUITS PER MICROTRENCH. AT THE DISCRETION OF THE PUBLIC WORKS DIRECTOR, AN ADDITIONAL CONDUIT SHALL BE PLACED ABOVE THE APPLICANTS CONDUITS, FOR USE BY THE CITY.
10. CONDUITS MUST BE PLACED IN ZONE 1 FIRST. IF THERE ARE CONFLICTS PRESENT, THEN ZONE 2 MAY BE UTILIZED, ZONE 3 CAN BE USEDONLY IF THEY ARE CONFLICTS PRESENT IN BOTH ZONES 2 AND 3.
11. ALL MICROTRENCHING SHALL BE IDENTIFIED WITH A METAL IDENTIFICATION TAG LISTING THE OWNER, YEAR OF CONSTRUCTION, AND INCLUDING THE WORDS "NOT A SURVEY POINT". IF THE WORK IS DONE MORE THAN 50' IN LENGTH, PLACE THE TAG NEAR EACH END OF THE MICROTRENCH AND AT INTERVALS NOT EXCEEDING 50'.
12. ALL STRIPING OR SIGNAGE DISTURBED BY THE PROJECT SHALL BE RESTORED TO CITY STANDARDS. SEE CITY DETAIL C-1.
13. PRIOR TO FINISHING THE WORK DAY, OPEN TRENCHES SHALL BE PLATED OR BACKFILLED AND PAVED WITH EXISTING PAVEMENT.
14. ASPHALT TYPE SHALL MATCH EXISTING ASPHALT. IF TYPE A, HOT MIX ASPHALT SHALL MEET 2010 CALTRANS STANDARD SPECIFICATIONS SECTION 39 (15% RAP)
15. PAVEMENT RESTORATION LIMITS SHALL CONFORM TO CITY STANDARD DETAILS R-6A THRU R-6C
16. ADDITIONAL MORATORIUM PAVING OR SLURRY SEAL MAY APPLY PER SMMC 17.32.

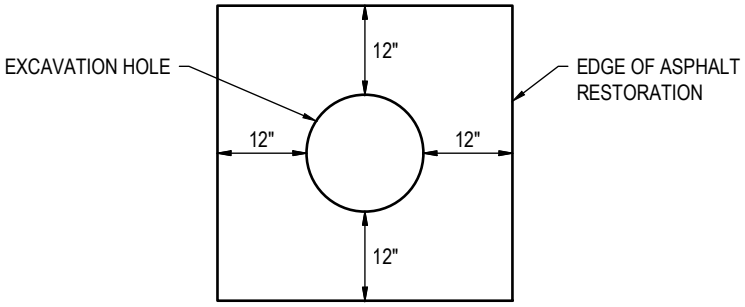
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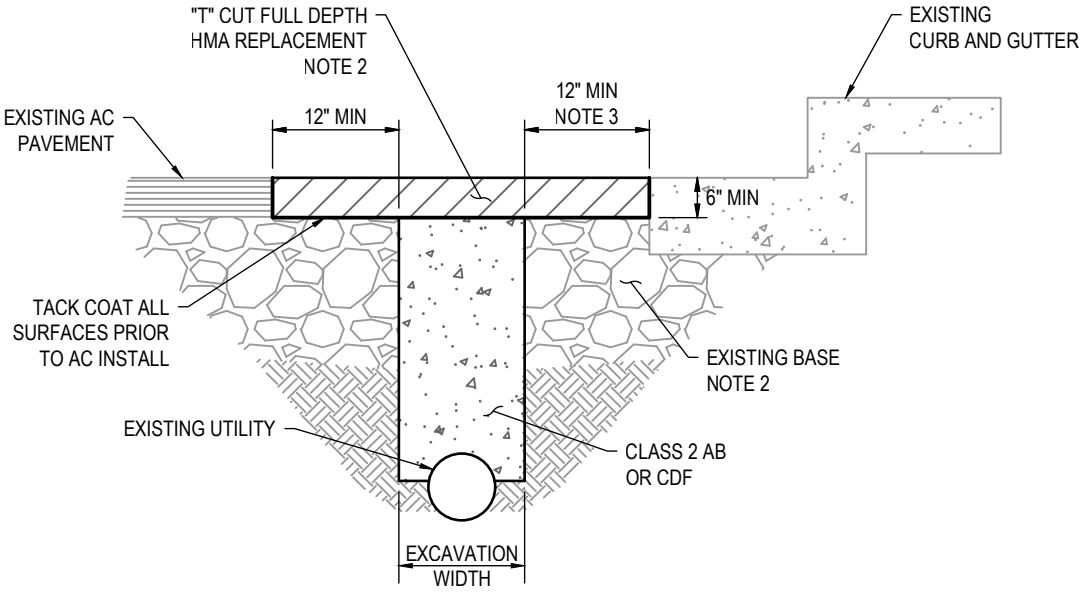
MICROTRENCH

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8/17/2022

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R-4



POTHOLE RESTORATION LIMITS PLAN



POTHOLE SECTION

NOTES:

1. SAWCUT FULL CONCRETE BASE DEPTH PRIOR TO TRENCHING.
2. "T" CUT SHALL CONSIST OF REMOVAL AND REPLACEMENT WITH HOT MIX ASPHALT FOR FULL DEPTH OF THE EXISTING ASPHALT CONCRETE LAYER OR 6" MINIMUM, WHATEVER IS GREATER. IF THE SUBBASE IS CONCRETE, THE "T" CUT SHALL REPLACE THE EXISTING CONCRETE SECTION TO FULL DEPTH.
3. WHERE THE "T" CUT EDGE IS WITHIN 3' OF THE ADJACENT CURB AND GUTTER, THE "T" CUT SHALL BE EXTENDED TO THE ADJACENT CURB OR GUTTER.
4. ALL STRIPING OR SIGNAGE DISTURBED BY THE PROJECT SHALL BE RESTORED TO CITY STANDARDS. SEE CITY DETAIL C-1.
5. FOR PAVED AREAS, SELECT BACKFILL SHALL BE CONTROLLED DENSITY FILL (CDF)
6. FOR UNPAVED AREAS, SELECT MATERIAL SHALL BE MATERIAL FROM EXCAVATION, FREE FROM STONES OR LUMPS EXCEEDING 3" IN GREATEST DIMENSION, VEGETATION MATTER, OR UNSATISFACTORY MATERIAL.
7. ASPHALT TYPE SHALL MATCH EXISTING ASPHALT. IF TYPE A, HOT MIX ASPHALT SHALL MEET 2010 CALTRANS STANDARD SPECIFICATIONS SECTION 39 (15% RAP)
8. WHEN MULTIPLE POTHOLES WHOSE OURSIDE EDGES ARE WITHIN 24" OF EACH OTHER, "T CUT RESTORATION SHALL BE CONTINUOUS.
9. ADDITIONAL MORATORIUM PAVING OR SLURRY SEAL MAY APPLY PER SMMC 17.32.

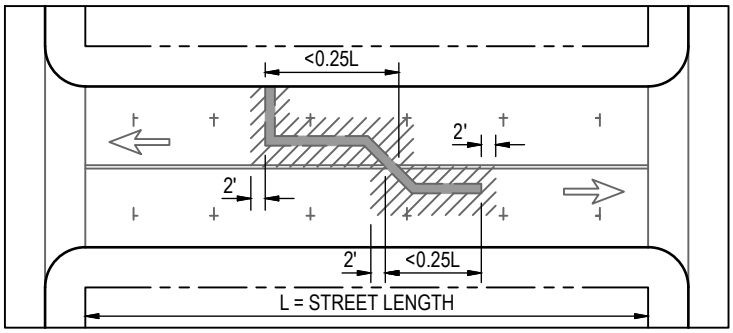
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

POTHOLE RESTORATION

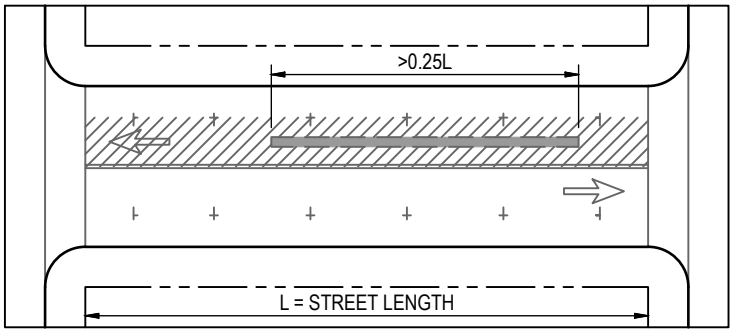
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R-5



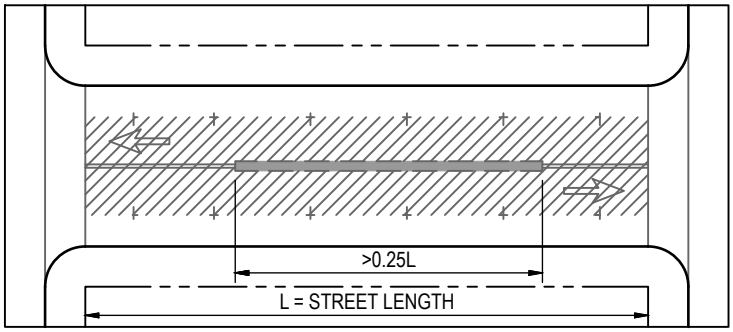
CASE 1: EXCAVATION <25% LENGTH OF STREET

RESTORATION CASE 1:
FOR EXCAVATIONS LESS THAN 25% OF THE TOTAL STREET LENGTH, ASPHALT SURFACE SHALL BE RESTORED FOR THE FULL WIDTH OF ANY AFFECTED LANE AND 2' PAST THE EXCAVATION. FOR UNMARKED STREETS, RESTORE TO THE CENTER OF THE STREET.



CASE 2: EXCAVATION >25% LENGTH OF STREET

RESTORATION CASE 2:
FOR EXCAVATIONS 25% OR MORE OF THE TOTAL STREET LENGTH, ASPHALT SURFACE SHALL BE RESTORED FOR THE FULL WIDTH AND FULL LENGTH OF ANY AFFECTED LANE.



CASE 3: EXCAVATION OVER CENTERLINE

RESTORATION CASE 3:
FOR EXCAVATIONS CROSSING OVER THE CENTERLINE, BOTH LANES SHALL BE RESTORED FOR THE FULL WIDTH THEN APPLY CASE 1 OR 2. DEPICTED ABOVE IS A EXCAVATION CROSSING THE CENTERLINE AND LONGER THAN 25% OF THE STREET.

LEGEND

- AREA OF AC PAVEMENT RESTORATION
- AREA OF EXCAVATION
- PROPERTY LINE
- CENTER LINE
- LANE LINE
- CROSSWALK
- TRAFFIC FLOW
- PARKING TEE

EXCAVATION RESTORATION NOTES:

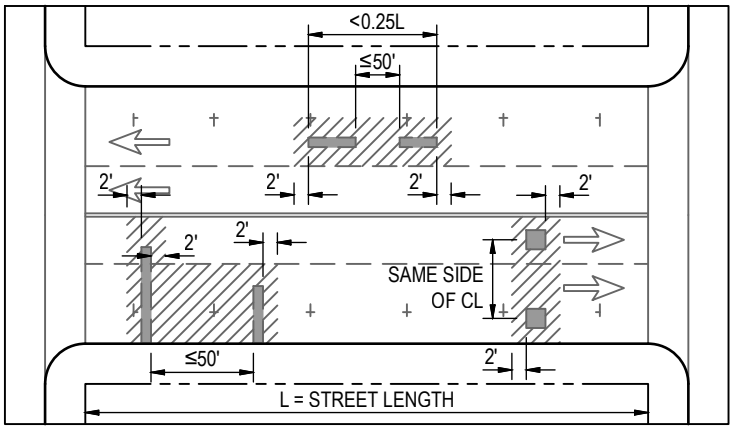
1. ASPHALT TYPE SHALL MATCH EXISTING ASPHALT. REFER TO DETAIL C-1 FOR SPEC.
2. IF A NEW RESTORATION IS DONE WITHIN AN EXISTING PATCH, THE BOUNDARIES OF THE FINAL RESTORATION FOR THE PATCHES SHALL COINCIDE.
3. ALL RESTORATIONS SHALL BE SQUARED UP AND PARALLEL TO THE EDGE OF THE ROADWAY.
4. ALL RESTORATION SHALL BE COMPLETED IN A TIMELY MANNER. AFTER BACKFILL IS RESTORED AND COMPACTED, ASPHALT SHALL BE PLACED 5 DAYS. FINAL RESTORATION SHALL BE COMPLETED NO LATER THAN 10 DAYS.
5. ANY ADJACENT CONCRETE SHALL CURE A MINIMUM 5 DAYS PRIOR TO PAVING.
6. ALL STRIPING SHALL BE COMPLETED BETWEEN 2 DAYS TO 7 DAYS AFTER THE PAVEMENT HAS BEEN PLACED.

CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
PAVEMENT RESTORATION (EXCAVATIONS)

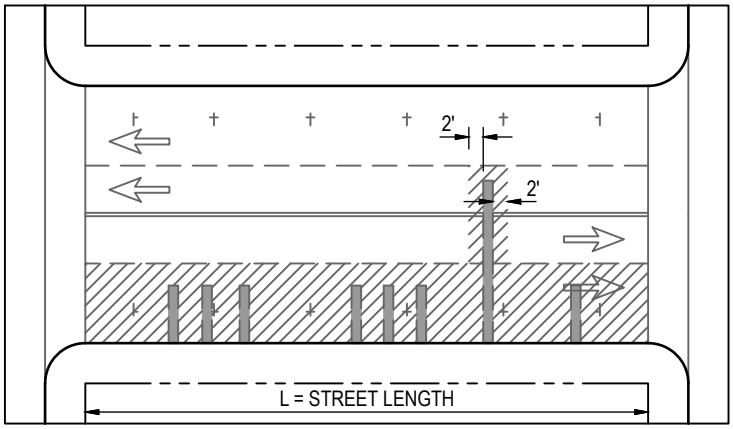
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R-6A



CASE 4: EXCAVATIONS WITHIN CLOSE PROXIMITY

RESTORATION CASE 4:
FOR TWO OR MORE EXCAVATIONS WITHIN 50' LONGITUDINAL OF ONE ANOTHER OR ON THE SAME SIDE OF THE CENTERLINE, THE PAVEMENT RESTORATION SHALL BE CONTINUOUS BETWEEN THE EXCAVATIONS. FOR LONGITUDINAL EXCAVATIONS, THIS CASE APPLIES BETWEEN THE TWO NEAREST ENDS; HOWEVER, THE TOTAL LENGTH OF THE TWO EXCAVATIONS COMBINED STALL BE LESS THAN 25% OF THE STREET.



CASE 5: 8 OR MORE LATERALS ON SAME BLOCK

RESTORATION CASE 5:
FOR PROJECTS INSTALLING 8 OR MORE LATERALS ON THE SAME BLOCK OR WHEN 50% OR MORE OF THE PROPERTIES ON A BLOCK REQUIRE LATERAL EXCAVATION, THE PAVEMENT RESTORATION SHALL EXTEND THE ENTIRE LENGTH OF THE BLOCK FOR. THIS APPLIES PER LANE.

LEGEND

- AREA OF AC PAVEMENT RESTORATION
- AREA OF EXCAVATION
- PROPERTY LINE
- CENTER LINE
- LANE LINE
- CROSSWALK
- TRAFFIC FLOW
- PARKING TEE

EXCAVATION RESTORATION NOTES:

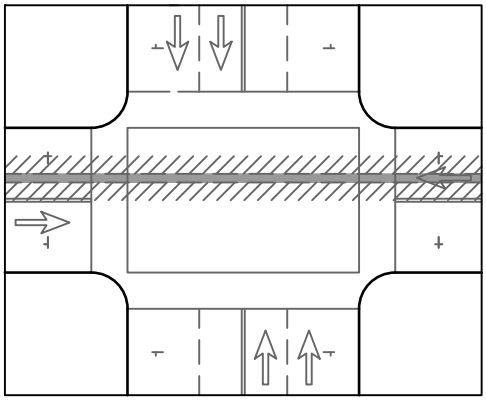
1. ASPHALT TYPE SHALL MATCH EXISTING ASPHALT. REFER TO DETAIL C-1 FOR SPEC.
2. IF A NEW RESTORATION IS DONE WITHIN AN EXISTING PATCH, THE BOUNDARIES OF THE FINAL RESTORATION FOR THE PATCHES SHALL COINCIDE.
3. ALL RESTORATIONS SHALL BE SQUARED UP AND PARALLEL TO THE EDGE OF THE ROADWAY.
4. ALL RESTORATION SHALL BE COMPLETED IN A TIMELY MANNER. AFTER BACKFILL IS RESTORED AND COMPACTED, ASPHALT SHALL BE PLACED 5 DAYS. FINAL RESTORATION SHALL BE COMPLETED NO LATER THAN 10 DAYS.
5. ANY ADJACENT CONCRETE SHALL CURE A MINIMUM 5 DAYS PRIOR TO PAVING.
6. ALL STRIPING SHALL BE COMPLETED BETWEEN 2 DAYS TO 7 DAYS AFTER THE PAVEMENT HAS BEEN PLACED.

CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
PAVEMENT RESTORATION (EXCAVATIONS)

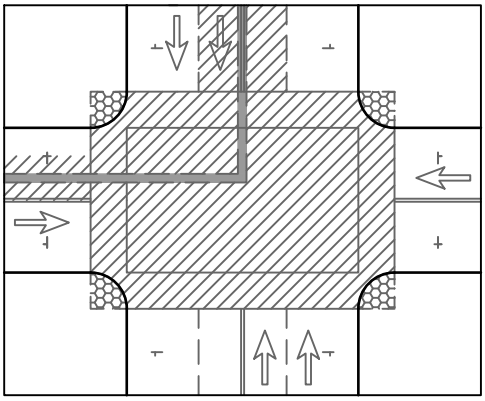
DATE
8/17/2022

SHEET
R-6B



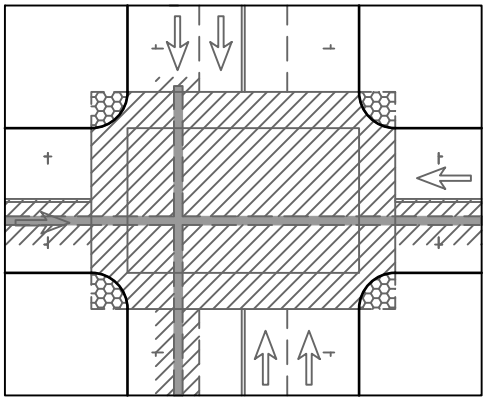
CASE 6: SINGLE STREET WIDTH ONLY

RESTORATION CASE 6:
WHEN EXCAVATION IS THRU THE INTERSECTION ALONG ONE SIDE, THE AFFECTED LANES SHALL BE RESTORED AS SHOWN.



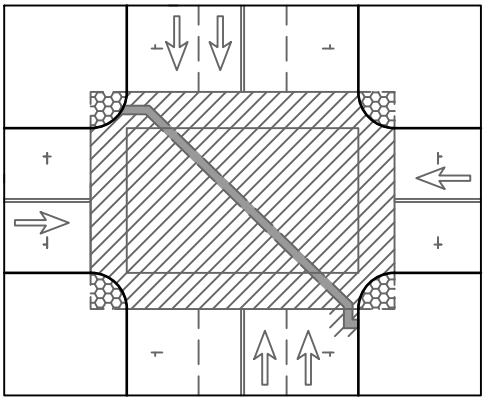
CASE 7: CENTERLINE

RESTORATION CASE 7:
WHEN EXCAVATION IS THRU THE INTERSECTION'S CENTERLINE, THE ENTIRE INTERSECTION SHALL BE RESTORED AS SHOWN.



CASE 8: THREE OR MORE QUADRANTS

RESTORATION CASE 8:
WHEN EXCAVATION IS THRU THREE QUADRANTS OR MORE, THE ENTIRE INTERSECTION SHALL BE RESTORED AS SHOWN.



CASE 9: DIAGONAL ACROSS

RESTORATION CASE 9:
WHEN EXCAVATION IS ACROSS AN INTERSECTION AT AN ANGLE, THE ENTIRE INTERSECTION SHALL BE RESTORED AS SHOWN.

EXCAVATION RESTORATION NOTES:

1. ASPHALT TYPE SHALL MATCH EXISTING ASPHALT. REFER TO DETAIL C-1 FOR SPEC.
2. IF A NEW RESTORATION IS DONE WITHIN AN EXISTING PATCH, THE BOUNDARIES OF THE FINAL RESTORATION FOR THE PATCHES SHALL COINCIDE.
3. ALL RESTORATIONS SHALL BE SQUARED UP AND PARALLEL TO THE EDGE OF THE ROADWAY.
4. ALL RESTORATION SHALL BE COMPLETED IN A TIMELY MANNER. AFTER BACKFILL IS RESTORED AND COMPACTED, ASPHALT SHALL BE PLACED 5 DAYS. FINAL RESTORATION SHALL BE COMPLETED NO LATER THAN 10 DAYS.
5. ANY ADJACENT CONCRETE SHALL CURE A MINIMUM 5 DAYS PRIOR TO PAVING.
6. ALL STRIPING SHALL BE COMPLETED BETWEEN 2 DAYS TO 7 DAYS AFTER THE PAVEMENT HAS BEEN PLACED.
7. WHERE SHOWN, CORNER RAMPS SHALL BE RECONSTRUCTED TO BE IN COMPLIANCE WITH ADA REQUIREMENTS.

LEGEND

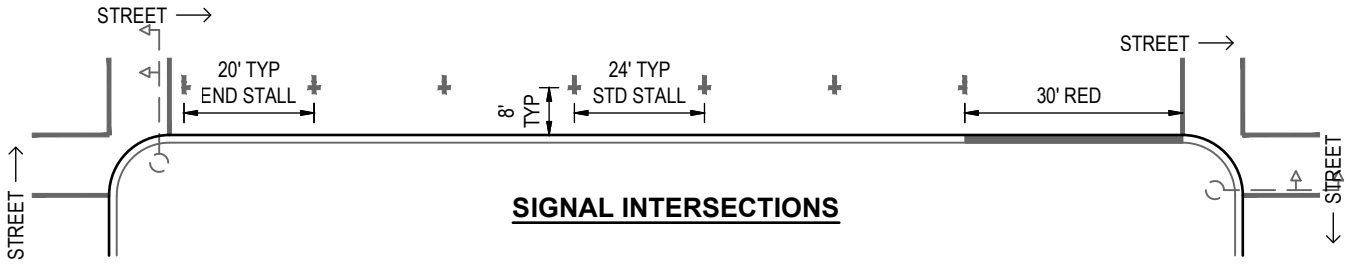
- AREA OF AC PAVEMENT RESTORATION
- AREA OF EXCAVATION
- UPGRADE CURB RAMPS TO BE ADA COMPLIANT
- PROPERTY LINE
- CENTER LINE
- LANE LINE
- CROSSWALK
- TRAFFIC FLOW
- PARKING TEE

CITY OF SAN MATEO CALIFORNIA

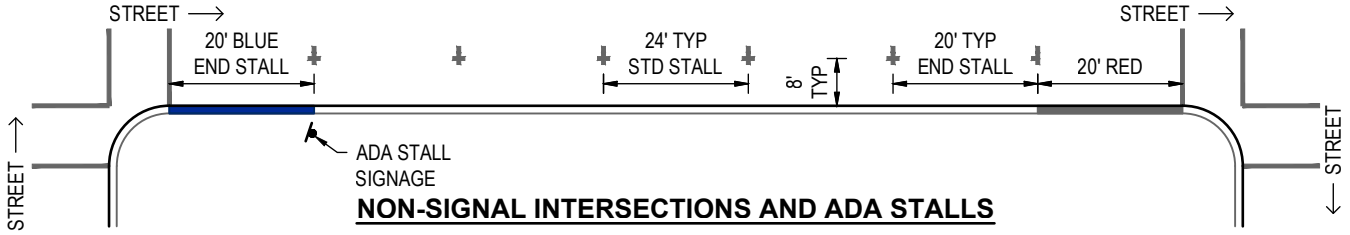
DEPARTMENT OF PUBLIC WORKS
PAVEMENT RESTORATION (EXCAVATIONS)

DATE
8/17/2016

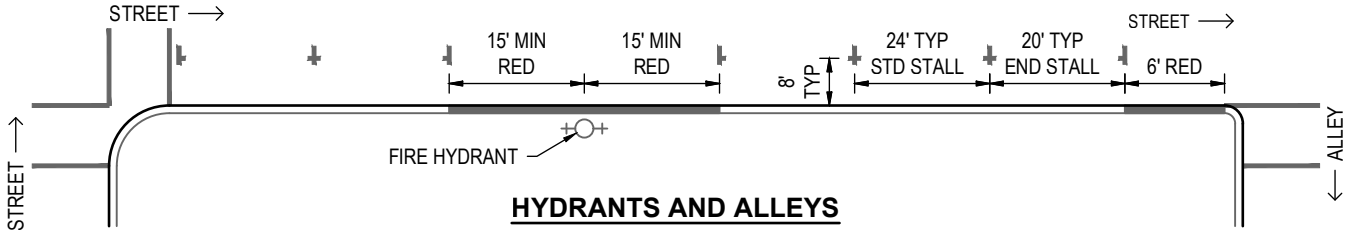
SHEET
R-6C



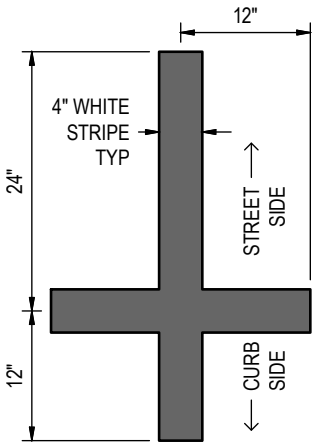
SIGNAL INTERSECTIONS



NON-SIGNAL INTERSECTIONS AND ADA STALLS



HYDRANTS AND ALLEYS



PARKING TEE

A= 1.6 SF

PARKING NOTES:

1. PARALLEL STALLS SHALL BE 24' LONG AND 8' WIDE. LENGTH MAY BE REDUCED TO 20' FOR END STALLS.
2. PARKING STALLS OTHER THAN PARALLEL SHALL REQUIRE SPECIAL APPROVAL FROM PUBLIC WORKS.
3. PARKING TEES SHALL ONLY BE PROVIDED WHERE PARKING DESIGNATION IS REQUIRED BY PUBLIC WORKS.
4. PARKING TEES SHALL BE WHITE THERMOPLASTIC WITH GLASS BEADING.
5. PARKING METERS SHALL BE LOCATED WITHIN 3' OF THE NOSE END OF THE PARKING STALL AND 18" O.C. FROM THE FACE OF CURB.
6. PARKING RESTRICTION SHALL BE MEASURED FROM THE EDGE OF CURB RETURN OR THE OUTSIDE EDGE OF THE CROSSWALK STRIPING WHICHEVER IS CLOSER TO THE STALL.

CASE 1 (SIGNALIZED INTERSECTIONS):
AT ALL SIGNALIZED INTERSECTIONS, PARKING SHALL BE PROHIBITED FOR 30' MIN ON THE NEAR SIDE AND 20' MIN ON THE FAR SIDE.

CASE 2 (NON-SIGNALIZED INTERSECTIONS):
AT ALL NON-SIGNALIZED INTERSECTIONS, PARKING SHALL BE PROHIBITED FOR 20' MIN ON EITHER SIDE.

CASE 3 (ADA-STALLS):
ADA STALLS SHALL BE LOCATED SUCH THAT PERSONS WITH DISABILITIES ARE NOT COMPELLED TO WALK OR WHEEL BEHIND PARKED VEHICLES BESIDES THEIR OWN. STALLS SHALL BE MARKED WITH BLUE CURB AND ADA STALL SIGN R99C(CA).

CASE 4 (FIRE HYDRANTS):
PARKING SHALL BE PROHIBITED 15' MIN ON EITHER SIDE OF A FIRE HYDRANT.

CASE 5 (ALLEYWAYS):
PARKING SHALL BE PROHIBITED 6' ON THE NEAR AND FAR SIDE OF AN INTERSECTION TO AN ALLEY.

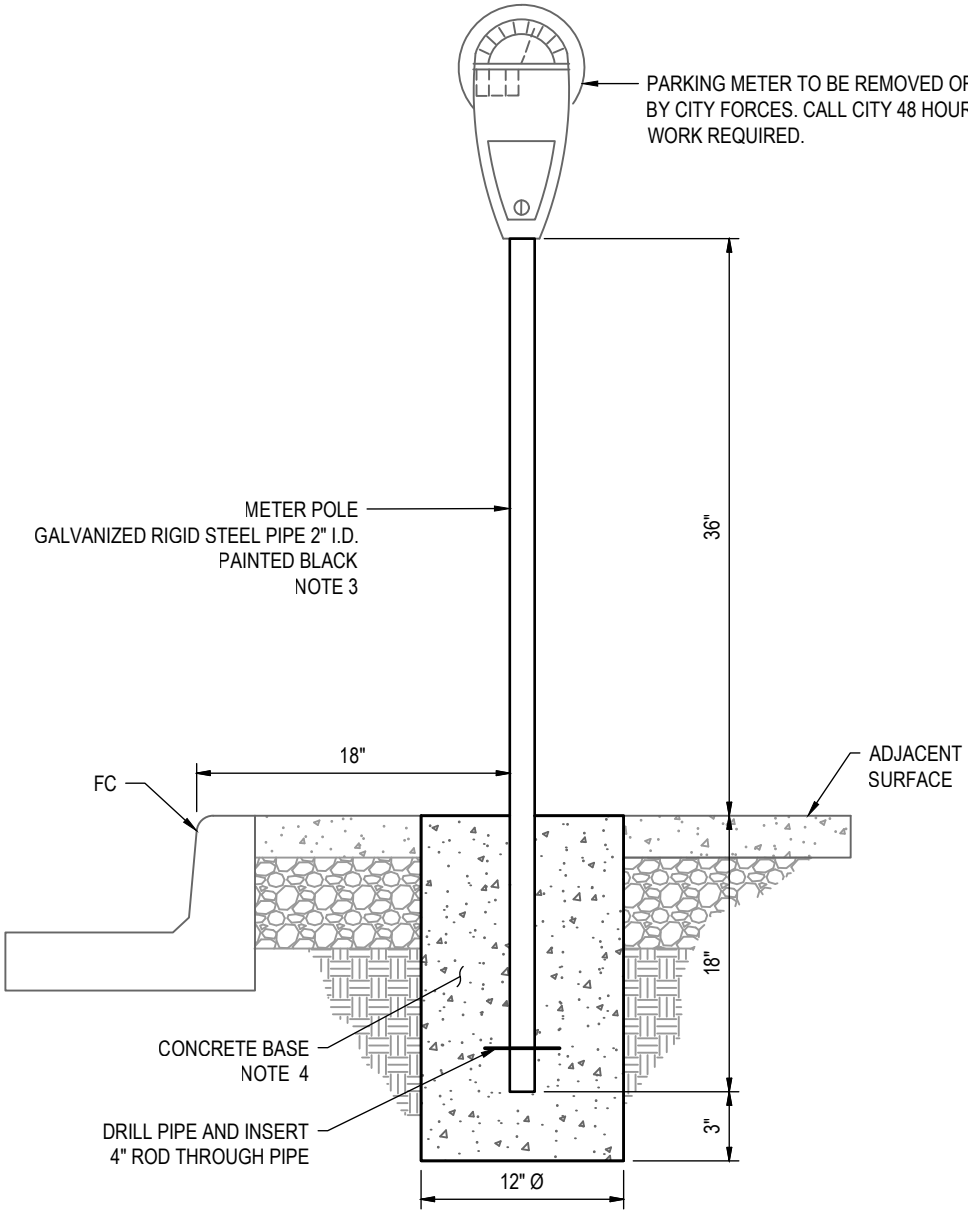
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

ON-STREET PARKING STANDARDS

DATE
8/17/2022

SHEET
P-1



NOTES:

1. PRIOR TO INSTALLING NEW OR REPLACING OLD METER POLE, CONTRACTOR SHALL NOTIFY CITY 48 HOURS PRIOR TO WORK TO VERIFY POLE LOCATIONS.
2. METER POLES SHALL BE PLUMBED BEFORE AND AFTER CONCRETE IS PLACED.
3. METER POLES SHALL BE PAINTED BLACK WITH PPG AMERLOCK 400 OR APPROVED EQUAL. WHERE STALL CURB IS COLORED (GREEN, YELLOW, OR WHITE), METER POLE SHALL BE PAINTED TO MATCH CURB COLOR INSTEAD.
4. CONCRETE SHALL BE CLASS A, 6 SACK MIX.

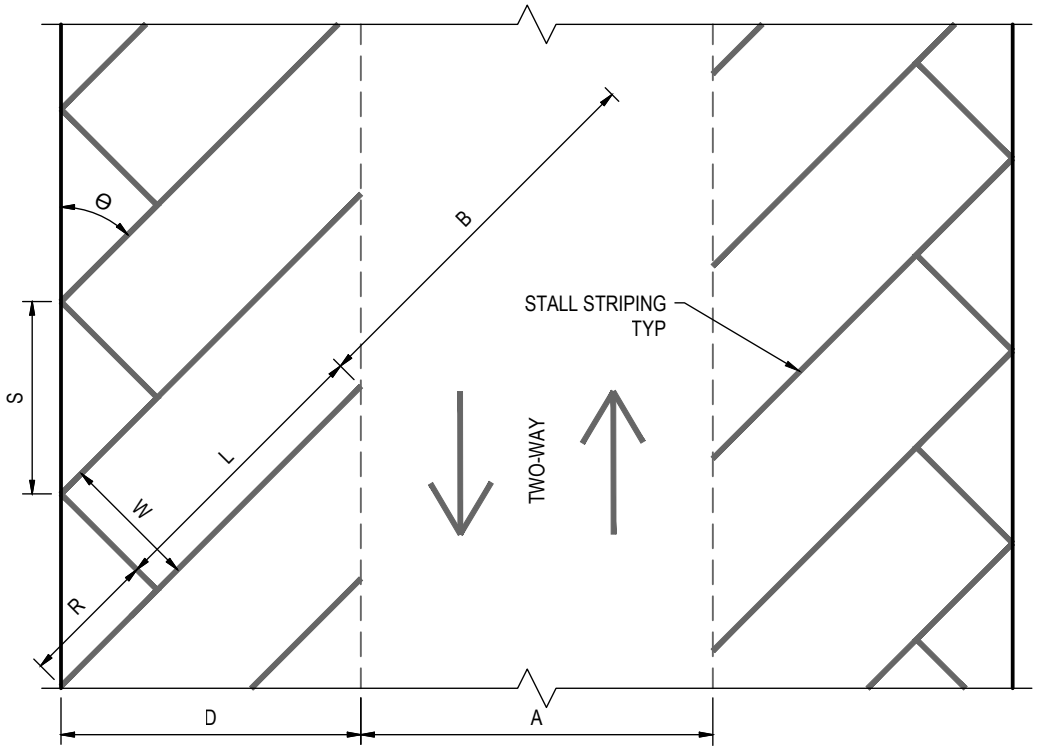
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

PARKING METER

DATE
8/17/2006

SHEET
P-2



LEGEND

L = STALL LENGTH
W = STALL WIDTH
S = STALL LENGTH AT CURB
D = STALL WIDTH AT CURB
A = DRIVE AISLE WIDTH
B = BACKUP DISTANCE

PARKING LOT LAYOUT

PARKING STALL DIMENSIONS

STANDARD STALLS:	COMPACT STALLS:
W = 8.5'	W = 7.5'
L = 18'	L = 15'
B = 24'	B = 22'

EQUATIONS FOR CALCULATIONS

DIMENSIONS:

$$S = \frac{W}{\sin\Theta}$$

$$R = \frac{W}{\tan\Theta}$$

$$D = (L + R)\sin\Theta$$

AISLE WIDTHS:

$A = B\sin\Theta$
1-WAY: A = 12' MINIMUM
2-WAY: A = 22' MINIMUM

MINIMUM PARKING DIMENSIONS TABLE

Ø	S (FT)		R (FT)		D (FT)		A (1-WAY) (FT)		A (2-WAY) (FT)	
	COM	STD	COM	STD	COM	STD	COM	STD	COM	STD
0°	21	22	0	0	7	8	13	14	22	22
30°	16	17	13.9	14.7	15.5	16.4	12	12	22	22
45°	11.3	12	8	8.5	17.7	18.7	15.6	17	22	22
60°	9.2	9.8	4.6	4.9	18.7	19.8	19.1	20.8	22	22
90°	8	8.5	0	0	17	18	22	24	22	24

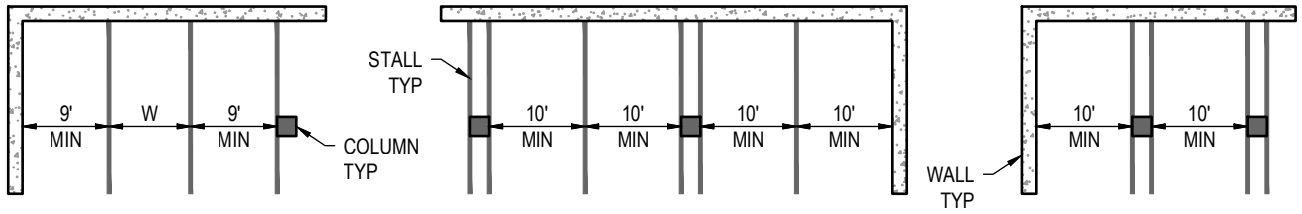
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

OFF-STREET PARKING STANDARDS

DATE
8/17/2026

SHEET
P-3



RESTRICTED STALLS
9' MIN

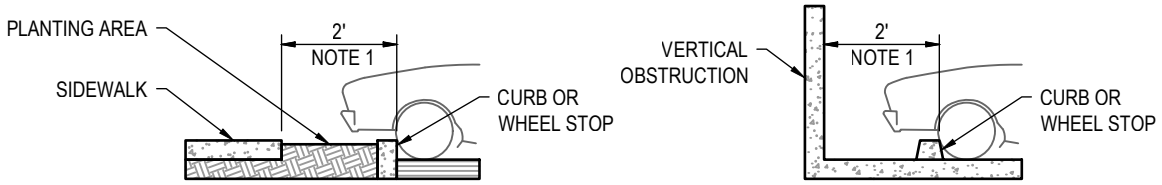
ADJACENT RESTRICTED OR END STALLS
10' MIN

CONFINED STALLS
10' MIN

NON-STANDARD STALLS

NOTE:

1. FOR COMPACT STALLS, SUBTRACT ONE FOOT FROM THE ABOVE MINIMUM DIMENSIONS.



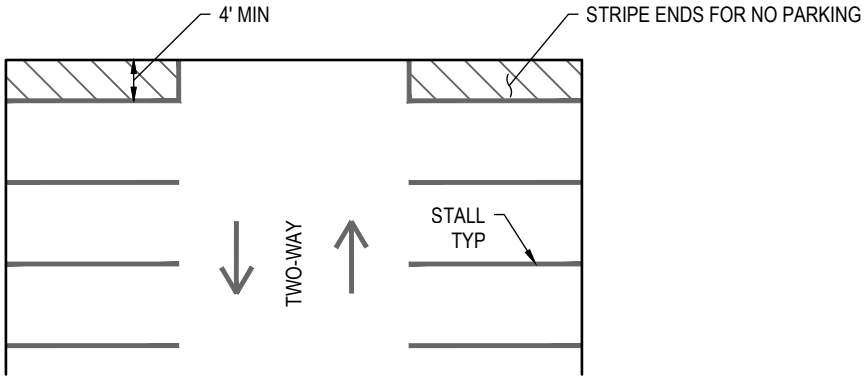
OVERHANG OVER LANDSCAPE

OVERHANG TOWARD VERTICAL OBSTRUCTION

PERMISSIBLE BUMPER OVERHANG

NOTE:

1. IN NO CASE SHALL THE BUMPER OVERHANG EXTEND INTO A PEDESTRIAN PATH OF TRAVEL.
2. FOR ADDITIONAL INFO: SEE S.M.M.C. CHAPTER 227.64 OFF STREET PARKING AND LOADING.



DEAD-END AISLES

NOTES:

1. DEAD-ENDS SHALL ONLY BE ALLOWED FOR TWO-WAY DRIVE AISLES.
2. SUFFICIENT AREA WILL BE PROVIDED NEAR THE END OF DEAD-END AISLES FOR TURN AROUND UNDER FULL LOT CONDITIONS.

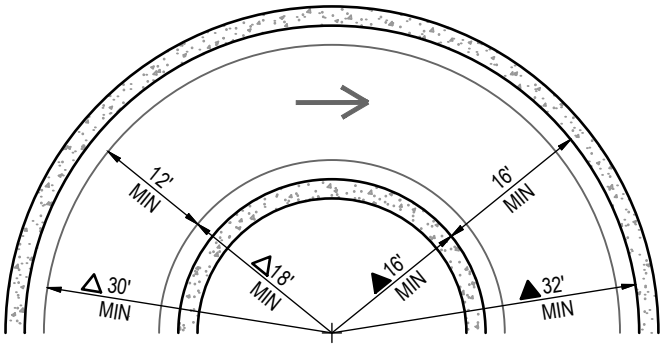
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

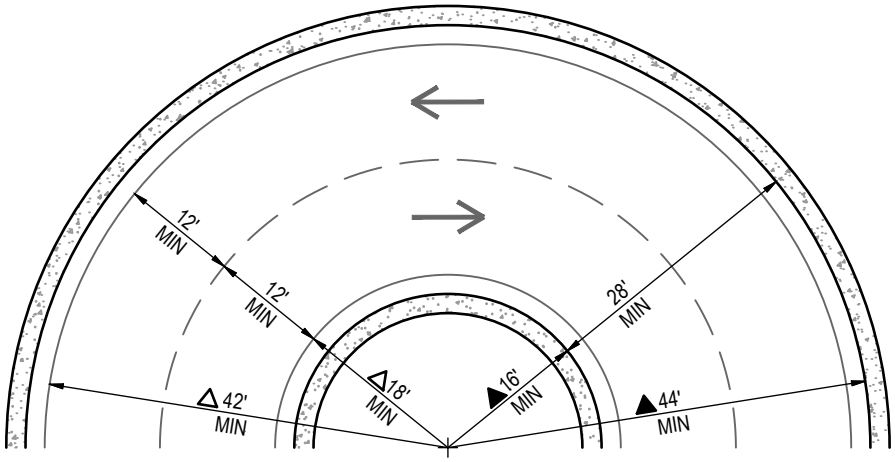
OFF-STREET PARKING DETAILS

DATE
8/17/2022

SHEET
P-4



ONE-WAY CURVE PLAN



TWO-WAY CURVE PLAN

△ RADIUS TO CURBS OR BARRIERS 6" OR SHORTER (WHEEL RADIUS).

▲ RADIUS TO COLUMNS, WALLS, OR VERTICAL STRUCTURES (BODY OVERHAND RADIUS).

NOTES:

1. FOR CURVES ON RAMPS, WHERE VIEW OF RAMP IS OBSTRUCTED BY WALLS OR OTHER VERTICAL ELEMENTS, MIRRORS SHALL BE INCORPORATED AS REQUIRED BY PUBLIC WORKS DIRECTOR.
2. ADDITIONAL REQUIREMENTS MAY APPLY PER S.M.M.C. CHAPTER 27.64 "OFF-STREET PARKING AND LOADING."

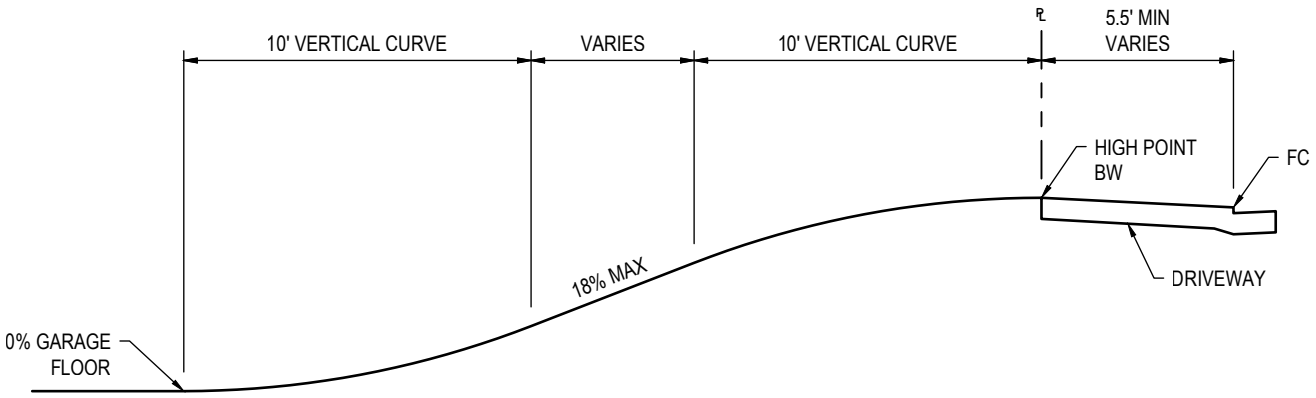
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

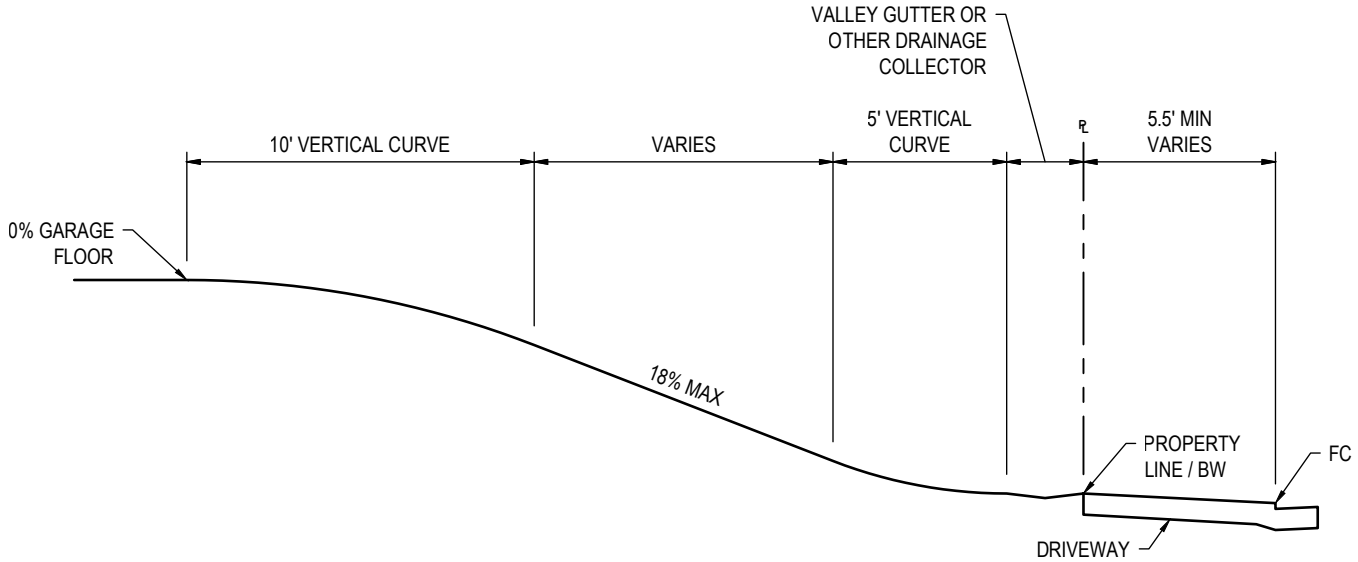
GARAGE CURVES

DATE
8/17/2006

SHEET
P-5

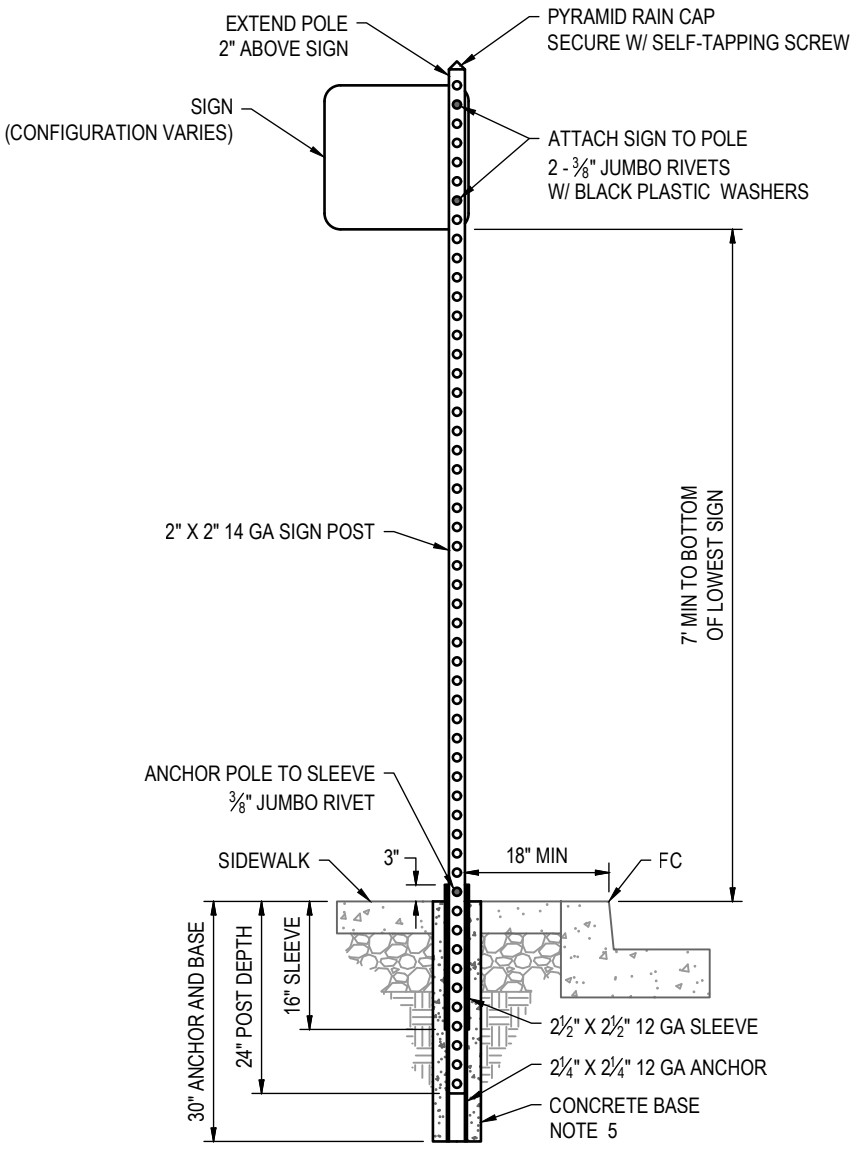


RAMP-DOWN PROFILE



RAMP-UP PROFILE

CITY OF SAN MATEO CALIFORNIA	**DEPARTMENT OF PUBLIC WORKS** **GARAGE RAMP PROFILES**	DATE 8/17/2026 SHEET **P-6**



SIGN POST

SIGN POST NOTES:

1. METAL POSTS SHALL BE TRINITY HIGHWAY SQR-LOC EZ-OUT OR APPROVED EQUAL. SIGN POST MUST BE BREAKAWAY.
2. AT INSTALLATION, COVER SLEEVE AND ANCHOR HOLES BELOW CONCRETE WITH TAPE TO PREVENT CONCRETE FROM FALLING INTO SLEEVE AND ANCHOR.
3. THE SIGN POST SHALL BE LOCATED AT THE BACK OF WALK OR AS DIRECTED BY THE CLEAR ACCESSIBLE PATH OF TRAVEL IN THE SIDEWALK.
4. UTILIZE RED GREASE ON RIVET BOLT PRIOR TO INSTALLATION.
5. WITHIN SIDEWALK, THE DIAMETER OF THE CONCRETE BASE SHALL MATCH THE DIAMETER OF THE CORING BIT USED, MINIMUM 6". WITHIN NATIVE GROUND SURFACE, THE DIAMETER OF THE CONCRETE BASE SHALL BE 12" MINIMUM.

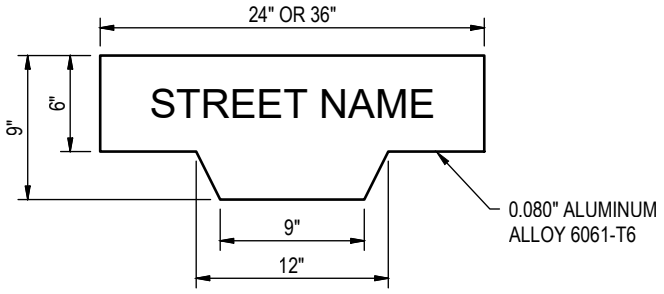
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

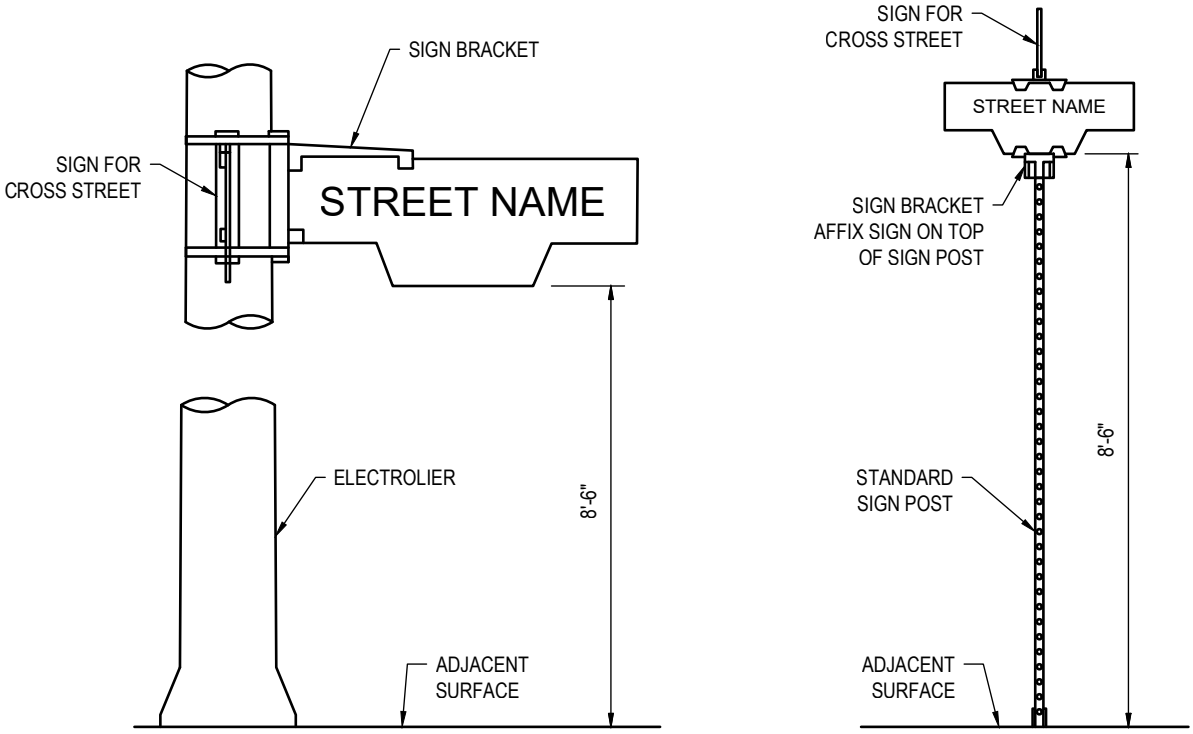
STANDARD SIGN POST

DATE
8/17/2022

SHEET
T-1



STREET NAME SIGN



ON ELECTROLIER **ON SIGN POST**

STREET NAME SIGN NOTES:

1. WHEREVER PRACTICAL STREET NAME SIGNS SHALL BE INSTALLED ON ELECTROLIER POLES.
2. SIGN HARDWARE SHALL BE HAWKINS "SLOTTED-LOCK" OR EQUAL.
3. SIGN FACES SHALL BE BLACK LETTERING ON SILVER REFLECTIVE SHEETING PER CITY STANDARD SPECIFICATIONS FOR TRAFFIC SIGNS.

CITY OF SAN MATEO CALIFORNIA

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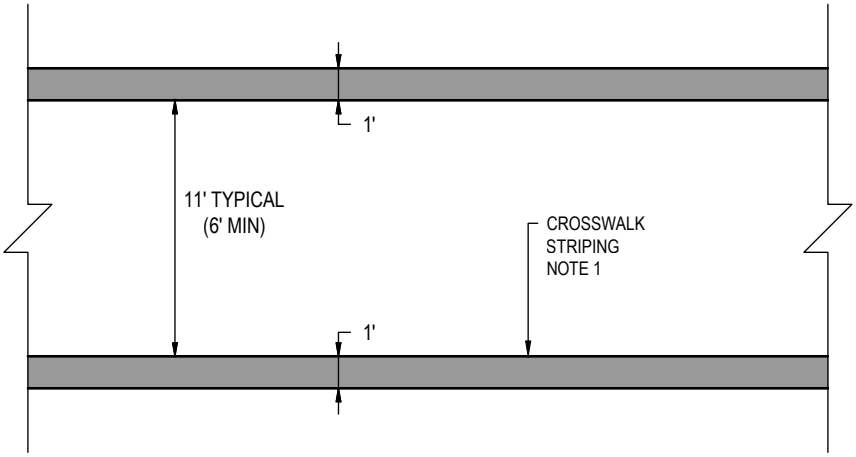
STREET NAME SIGN

DATE
8/17/2026

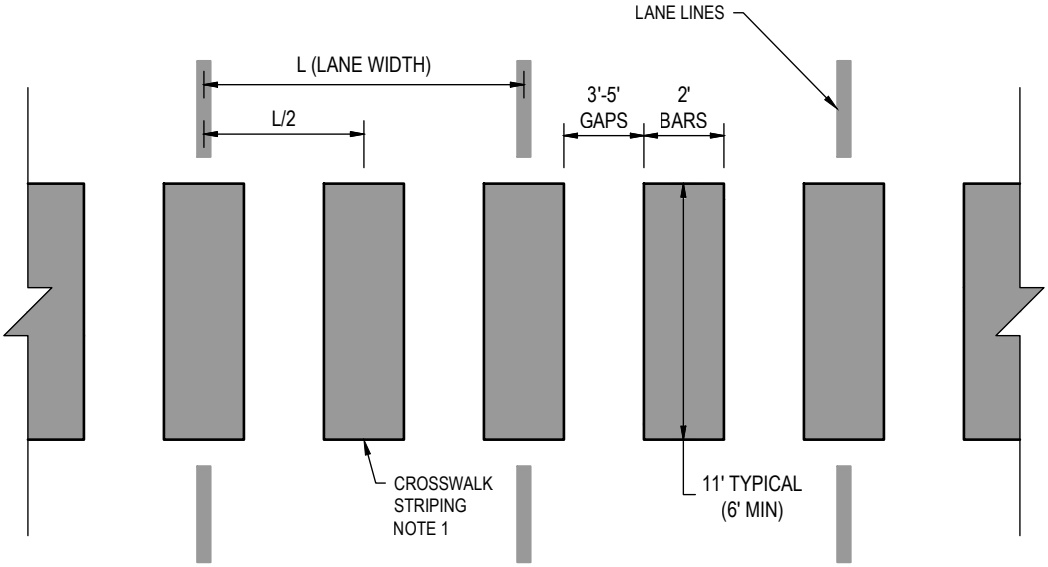
SHEET
T-2

RESERVED

	DEPARTMENT OF PUBLIC WORKS **INTERNALLY ILLUMINATED STREET NAME SIGN**	DATE 8/17/2022 SHEET **T-3**



STANDARD CROSSWALK
BASIC



HIGH-VISIBILITY CROSSWALK
CONTINENTAL

CROSSWALK NOTES:

1. CROSSWALK STRIPING SHALL BE WHITE THERMOPLASTIC PAINT WITH GLASS BEADING. WHERE CROSSWALK IS ADJACENT TO A K-12 SCHOOL OR ON A DESIGNATED SCHOOL ROUTE, CROSSWALK SHALL BE YELLOW. ALL CROSSWALKS IN THE SAME INTERSECTION SHALL BE YELLOW WHENEVER ONE CROSSWALK IS DESIGNATED AS YELLOW.
2. HIGH-VISIBILITY CROSSWALKS SHALL BE USED IN DESIGNATED MID-BLOCK CROSSINGS, HIGH-PEDESTRIAN AREAS, CORRIDORS, OR AS DIRECTED BY THE PUBLIC WORKS DIRECTOR. HIGH-VISIBILITY CROSSWALKS SHALL ONLY BE CONTINENTAL PATTERNED.
3. CONTINENTAL CROSSWALKS SHALL BE INSTALLED WITH BARS PARALLEL TO THE DIRECTION OF VEHICULAR TRAFFIC. STAGGERED CROSSWALKS SHALL BE INSTALLED TO PLACE VEHICLE WHEEL PATHS BETWEEN THE PAINTED BARS.
4. WHERE EXISTING BASIC CROSSWALKS ARE BEING RETROFITTED TO HIGH-VISIBILITY, THE EXISTING BASIC CROSSWALK LINES SHALL BE ALLOWED TO REMAIN.

CITY OF SAN MATEO CALIFORNIA

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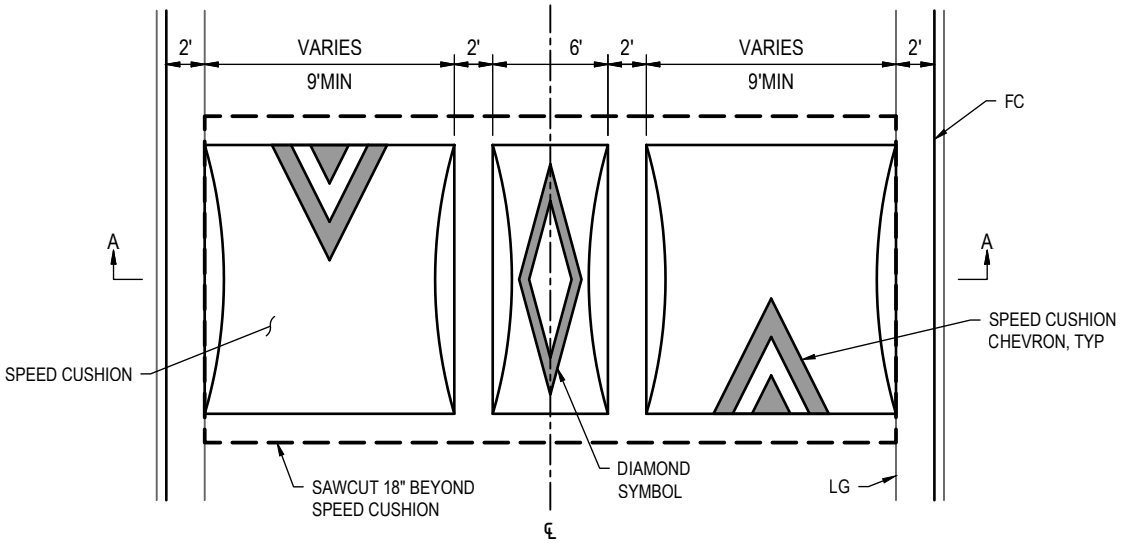
CROSSWALKS

DATE
8/17/2022~~8/1/2022~~

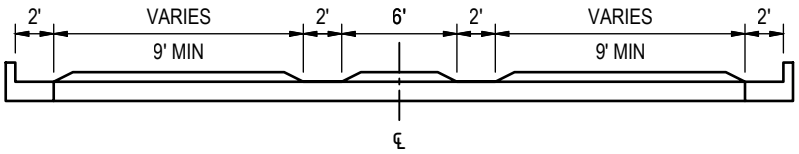
SHEET
T-4

RESERVED

	DEPARTMENT OF PUBLIC WORKS	DATE 8/17/2022
	RAISED CROSSWALK	SHEET **T-5**

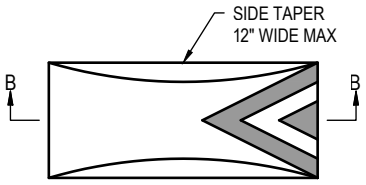


PLAN VIEW

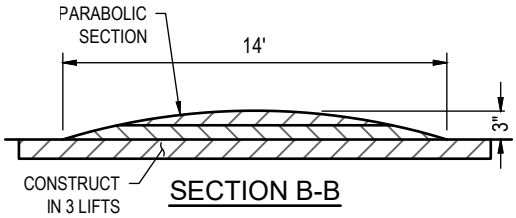


SECTION A-A

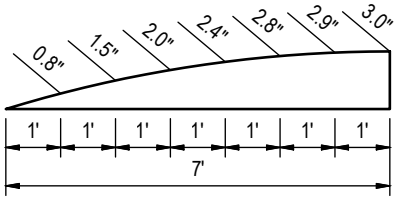
SPEED CUSHIONS LAYOUT



PLAN VIEW



SECTION B-B



PARABOLIC SECTION

NOTES:

1. REMOVE 2-INCHES OF PAVEMENT 18-INCHES BEYOND SPEED CUSHION AND UP TO THE LIP OF GUTTER.
2. SPEED CUSHION SHALL BE CONSTRUCTED IN 3 LIFTS OF CLASS ⅜" ASPHALT MIX. 1ST LIFT SHALL BE 2-INCHES. 2ND AND 3RD LIFTS SHALL BE 1.5-INCHES.
3. SPEED CUSHION CHEVRON SHALL BE INSTALLED ON THE SIDE FACING THE FLOW OF TRAFFIC AND CENTERED ON THE TRAVEL LANE.
4. WHERE BICYCLE LANES MAY CROSS AND THE OUTSIDE SPEED CUSHION WIDTH EXCEEDS 6.5-FT, TRANSITION OUTSIDE CUSHION EDGE TO TERMINATE AT THE BICYCLE LANE STRIPE.
5. SIGNAGE SHALL BE INSTALLED PER DTL T-6B.
6. ALL STRIPING SHALL BE WHITE THERMOPLASTIC PAINT WITH GLASS BEADING.
7. ADVANCED SPEED CUSHION WARNING STRIPING SHALL BE INSTALLED AT THE DIRECTION OF THE PUBLIC WORKS DIRECTOR, PER DTL T-6B
8. SPEED CUSHIONS SHALL NOT BE INSTALLED WITHIN 5-FT OF A CATCH BASIN.

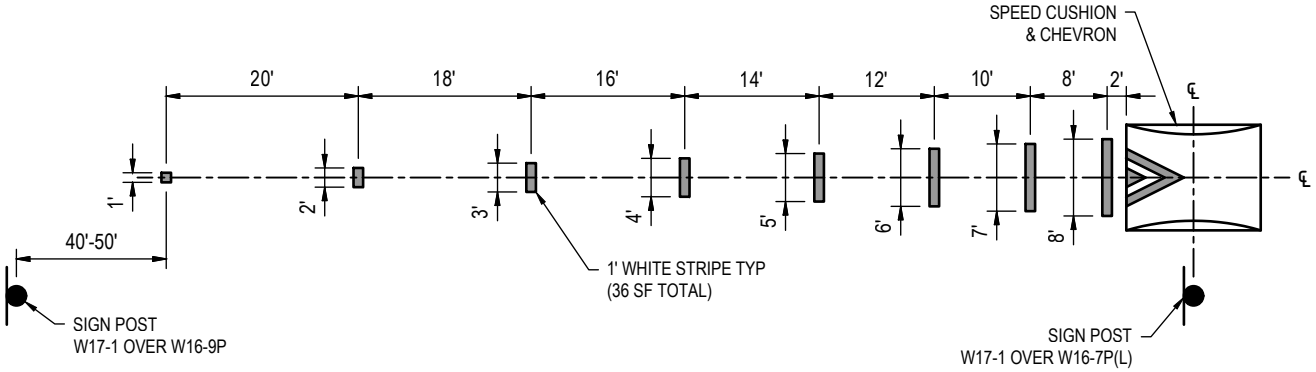
SPEED CUSHION

DEPARTMENT OF PUBLIC WORKS

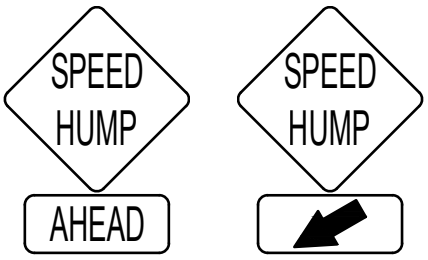
SPEED CUSHION

DATE
8/17/2022

SHEET
T-6A

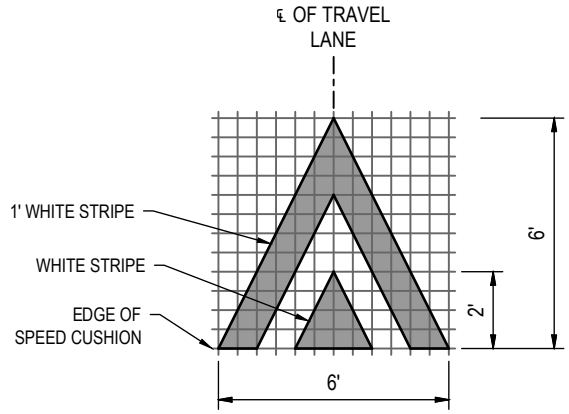


ADVANCED SPEED CUSHION WARNING

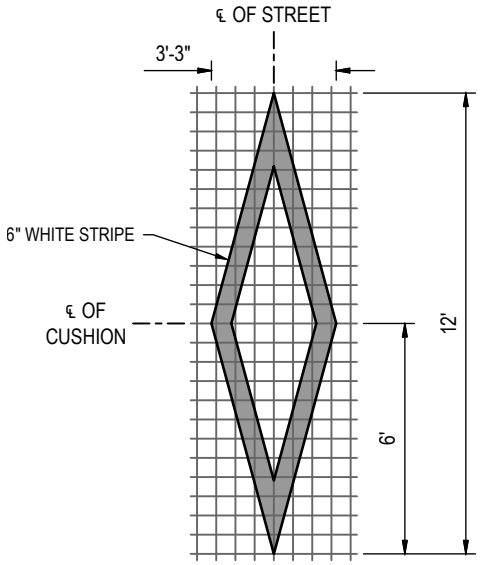


W17-1 OVER W16-9P

W17-1 OVER W16-7P (L)



SPEED CUSHION CHEVRON
A= 12 SF



DIAMOND SYMBOL
A= 10.5 SF

NOTES:
1. ALL STRIPING SHALL BE WHITE THERMOPLASTIC PAINT WITH GLASS BEADING.

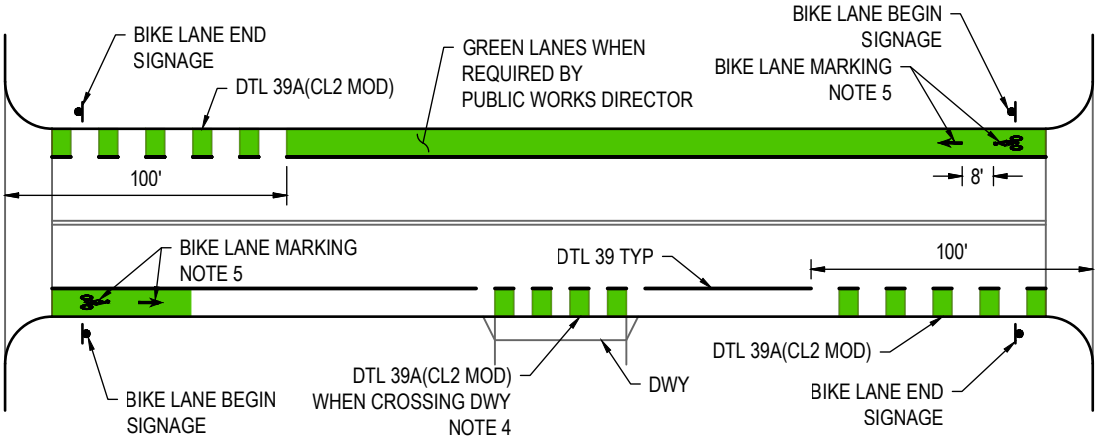
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

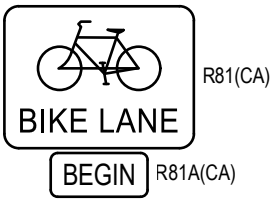
SPEED CUSHION DETAILS

DATE
8/17/2022

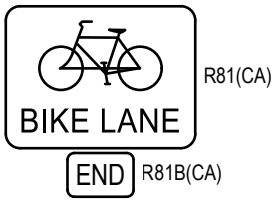
SHEET
T-6B



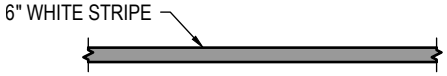
TYPICAL BIKE LANE LAYOUTS



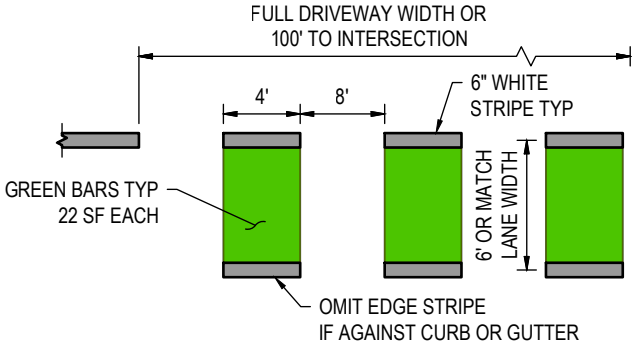
BIKE LANE BEGIN



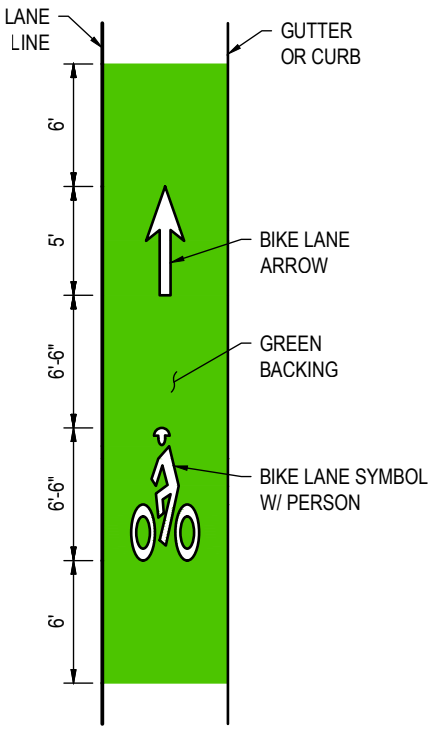
BIKE LANE END



BIKE LANE LINE
CALTRANS DETAIL 39



BIKE LANE CONFLICT MARKINGS
DETAIL 39A (CL2 MOD)



BIKE LANE MARKING

BIKE LANES NOTES:

1. ALL WHITE STRIPING SHALL BE THERMOPLASTIC WITH GLASS BEADING. ALL GREEN STRIPING SHALL BE CYCLEGRIP MMAX OR APPROVED EQUAL NON-SLIP HIGH VISIBILITY TREATMENT.
2. BIKE LANES CONSIST OF A 6" WHITE STRIPE PER CALTRANS DETAIL 39. BIKE LANE STANDARD WIDTH IS 6' MEASURED FROM FACE OF CURB TO MIDDLE OF WHITE STRIPE.
3. FULLY PAINTED GREEN LANES SHALL ONLY BE INSTALLED AS REQUIRED BY PUBLIC WORKS DIRECTOR.
4. BIKE LANE APPROACHES TO AN INTERSECTION, THROUGH A DRIVEWAY, OR ANY OTHER MOTOR VEHICLE TO CYCLIST CONFLICT ZONE SHALL PROVIDE CONFLICT MARKINGS. CONFLICT MARKINGS SHALL BE PROVIDED THROUGH INTERSECTIONS AS DIRECTED BY PUBLIC WORKS DIRECTOR. SINGLE FAMILY RESIDENTIAL AND MULTI-FAMILY RESIDENTIAL (10 UNITS OR LESS) DRIVEWAYS ARE EXEMPT FROM CONFLICT MARKINGS.
5. BIKE LANES SHALL HAVE BIKE LANE MARKINGS (GREEN BACKED ARROW AND BIKE SYMBOL) AT BEGINNING OF EACH BLOCK, EVERY 300'-400', OR AFTER AN INTERSECTION.
6. BIKE LANES SHALL HAVE "BIKE LANE BEGIN" AND "BIKE LANE END" SIGNAGE FOR EACH BLOCK.
7. ALL MARKINGS AND SIGNAGE ARE BASED ON CALTRANS STANDARD PLANS.
8. ALL CATCH BASINS ALONG BIKE LANES SHALL HAVE A BIKE SAFE GRATE.

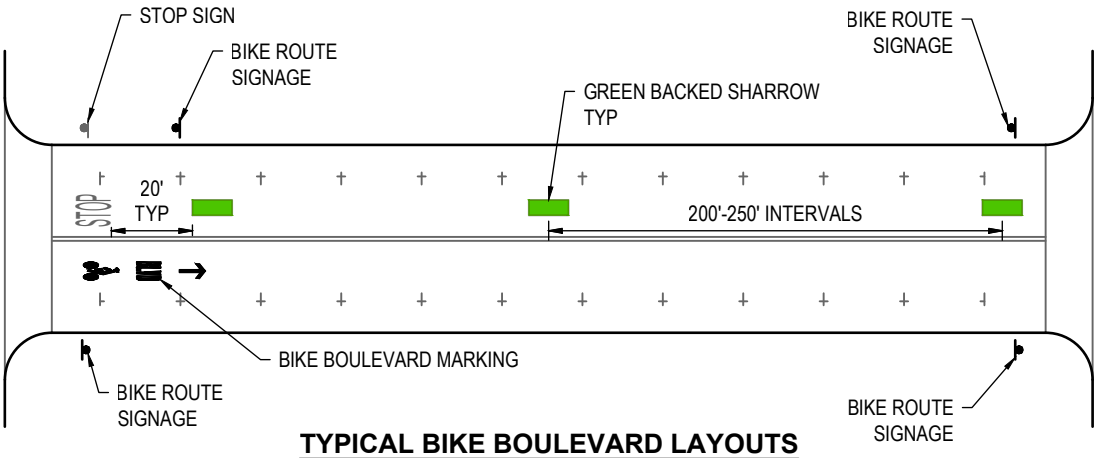
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

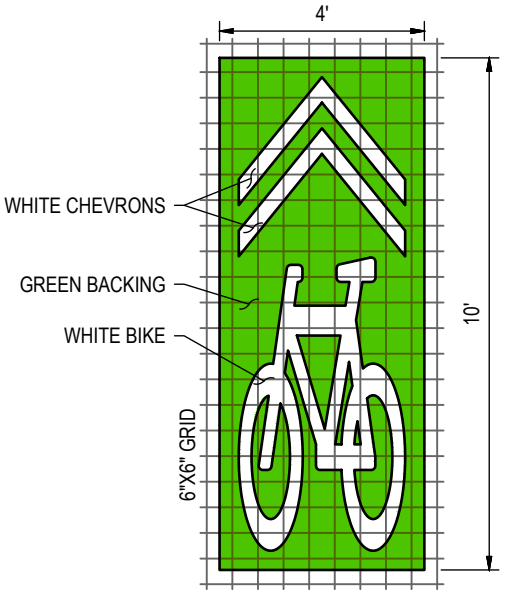
BIKE LANES

DATE
8/17/2016

SHEET
T-7

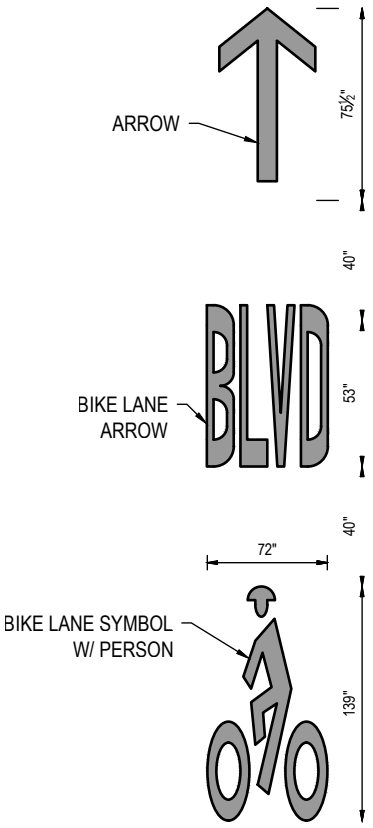


TYPICAL BIKE BOULEVARD LAYOUTS



GREEN BACKED SHARROW

WHITE A= 11.5 SF
GREEN A= 41.5 SF



BIKE BOULEVARD MARKING

BIKE LANES NOTES:

1. BIKE ROUTES SHALL BE IDENTIFIED WITH BIKE BOULEVARD MARKING AND SHOULD BE USED WHERE PHYSICAL CONSTRAINTS PREVENT USING BIKE LANES. BIKE ROUTES SHALL NOT BE INSTALLED ON ROADS WITH 35 MPH OR GREATER POSTED SPEED LIMITS UNLESS APPROVED BY PUBLIC WORKS DIRECTOR.
2. SHARROWS (CALTRANS SHARED ROADWAY BICYCLE MARKINGS CENTERED WITHIN A 4' BY 10' GREEN BACKING) SHALL BE PROVIDED PER CA-MUTCD PLACEMENT GUIDANCE. INTERVALS ARE SUBJECT TO ENGINEERING DIVISION PLACEMENT.
3. WHERE TRAVEL LANE WIDTH IS 14' OR LESS, SHARROWS SHALL BE INSTALLED CENTERED IN THE TRAVEL LANE.
4. WHERE TRAVEL LANE WIDTH IS MORE THAN 14', SHARROWS SHALL BE INSTALLED 5' FROM THE CURB OR 5' FROM THE PARKING STALLS PER CASE 2.
5. BIKE LANES SHALL HAVE BIKE ROUTE SIGNAGE AT THE BEGINNING AND END FOR EACH BLOCK.
6. ALL MARKINGS AND SIGNAGE ARE BASED ON CALTRANS STANDARD PLANS.

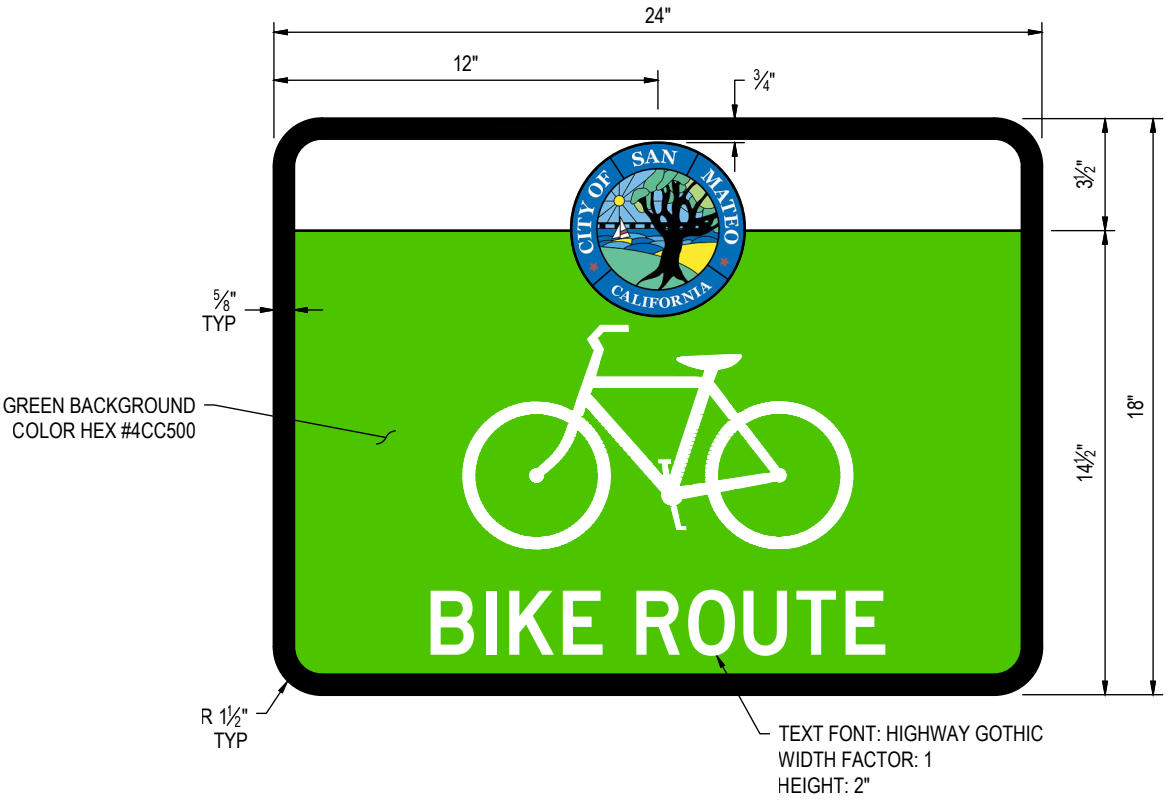
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

BIKE ROUTES

DATE
8/17/2022

SHEET
T-8A



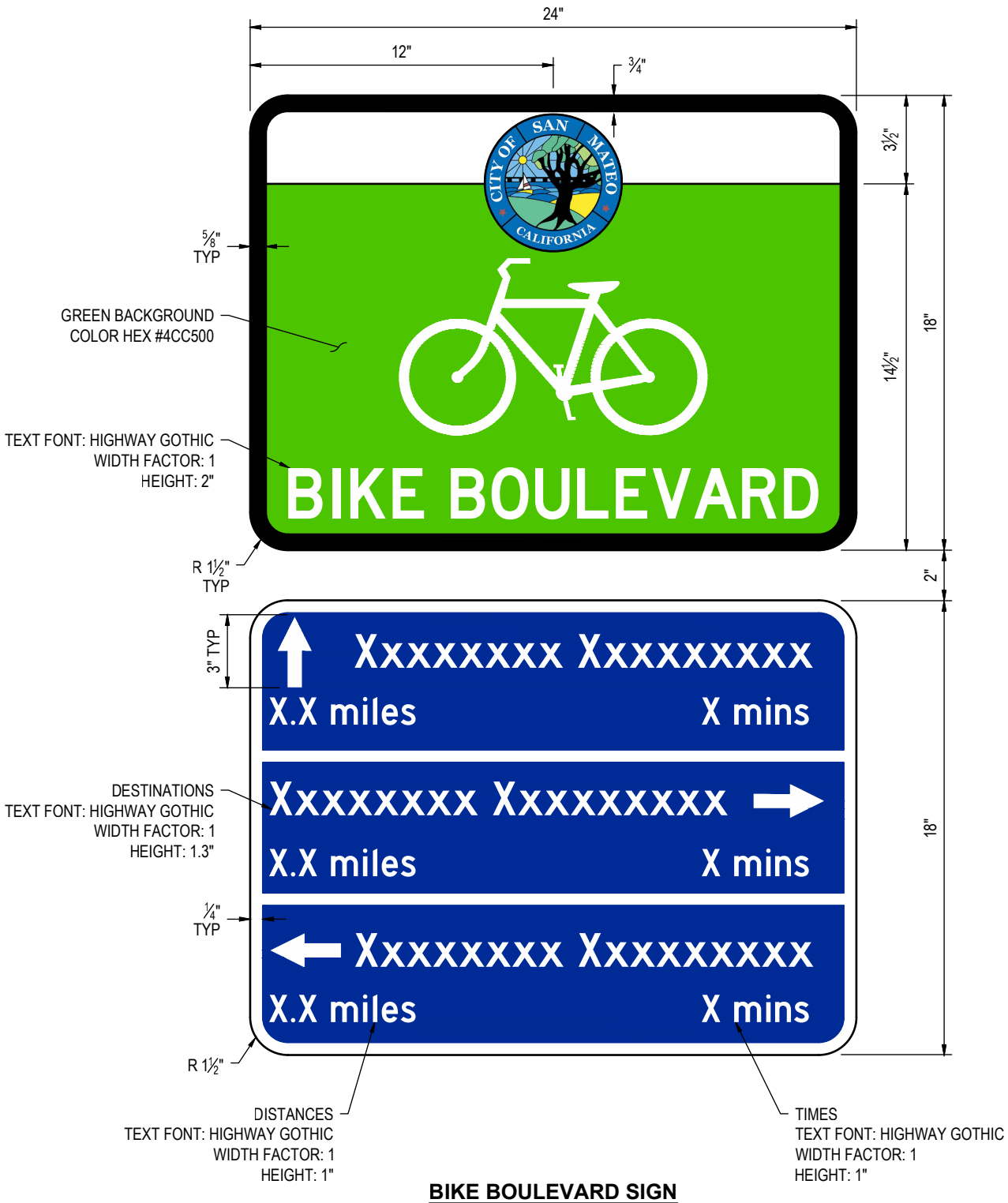
BIKE ROUTE SIGN

DEPARTMENT OF PUBLIC WORKS

BIKE ROUTE SIGNS

DATE
8/17/2026

SHEET
T-8B



BIKE BOULEVARD SIGN

NOTES:

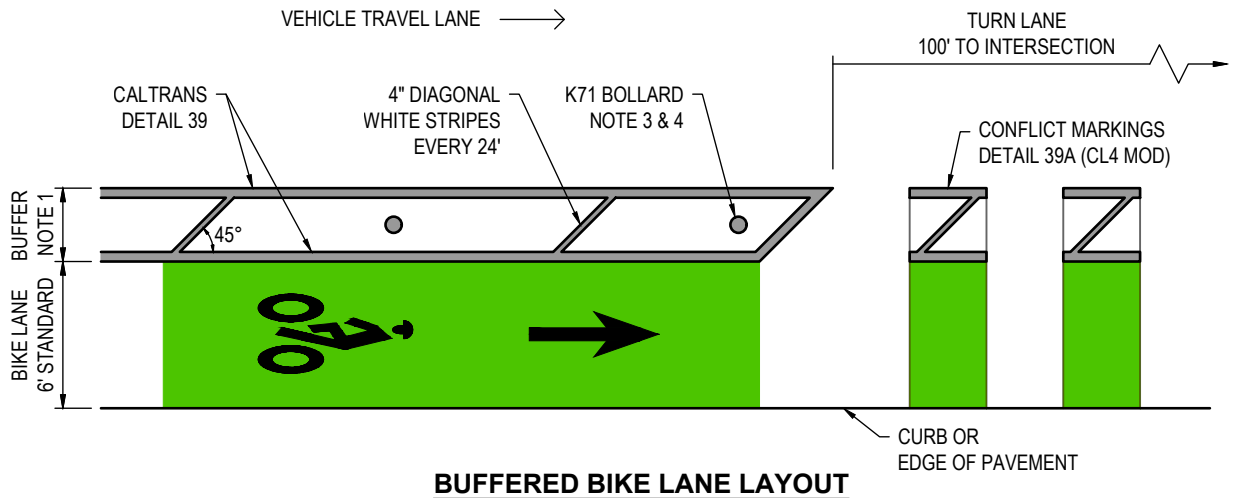
1. WAYFINDING SIGN CONTENT SHALL BE PROVIDED AS A SEPARATE PROJECT SPECIFIC TABLE AND APPROVED BY THE TRAFFIC DIVISION.

DEPARTMENT OF PUBLIC WORKS

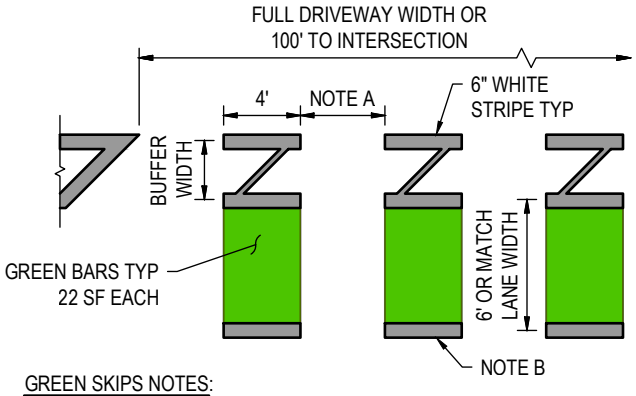
BIKE BOULEVARD SIGNS

DATE
8/17/2022

SHEET
T-8C



BUFFERED BIKE LANE LAYOUT



GREEN SKIPS NOTES:

A. SPACING SHALL BE 8' BETWEEN BARS FOR INTERSECTION APPROACHES AND 4' BETWEEN BARS FOR DRIVEWAY CROSSINGS.

B. OMIT RIGHT EDGE STRIPE IF AGAINST CURB OR GUTTER.

BIKE LANE CONFLICT MARKINGS
DETAIL 39A (CL2 MOD)

BIKE BUFFER NOTES:

1. BUFFER SHALL BE 24" MINIMUM INCLUDING THE WIDTH OF THE PARALLEL WHITE LINES.
2. ALL BUFFER STRIPING SHALL BE THERMOPLASTIC WITH GLASS BEADING. FOR GREEN SKIPS REFER TO CITY DETAIL A-7A.
3. K71 BOLLARDS SHALL BE BRIGHT GREEN WITH WHITE REFLECTIVE COLLARS UNLESS DIRECTED OTHERWISE BY THE PUBLIC WORKS DIRECTOR.
4. K71 BOLLARDS SHALL BE PLACED AT THE BEGINNING, BETWEEN DIAGONAL STRIPES, AND AT THE ENDS OF BUFFERED BIKE LANES. FOR 2' TO 4' BUFFERS, PLACE K71 BOLLARD CENTERED IN THE BUFFER, OR FOR WIDER BUFFERS, PLACE 2' FROM THE BIKE LANE EDGE.
4. BUFFERED BIKE LANE APPROACHES TO AN INTERSECTION, THROUGH A DRIVEWAY, OR ANY OTHER MOTOR VEHICLE TO CYCLIST CONFLICT ZONE SHALL PROVIDE CONFLICT MARKINGS. CONFLICT MARKINGS SHALL BE PROVIDED THROUGH INTERSECTIONS AS DIRECTED BY PUBLIC WORKS DIRECTOR. SINGLE FAMILY RESIDENTIAL AND MULTI-FAMILY RESIDENTIAL (10 UNITS OR LESS) DRIVEWAYS ARE EXEMPT FROM CONFLICT MARKINGS.

CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

BUFFERED BIKE LANES

DATE
8/17/2016

SHEET
T-9

ELECTRICAL NOTES:

1. ALL MATERIAL SUBMITTALS SHALL BE APPROVED BY THE TRANSPORTATION DIVISION PRIOR TO ORDERING MATERIALS.
2. STREET LIGHT CIRCUITS SHALL OPERATE AT 240 VAC IN STANDARD PARALLEL CONFIGURATION.

CONDUIT AND CONDUCTOR INSTALLATION NOTES:

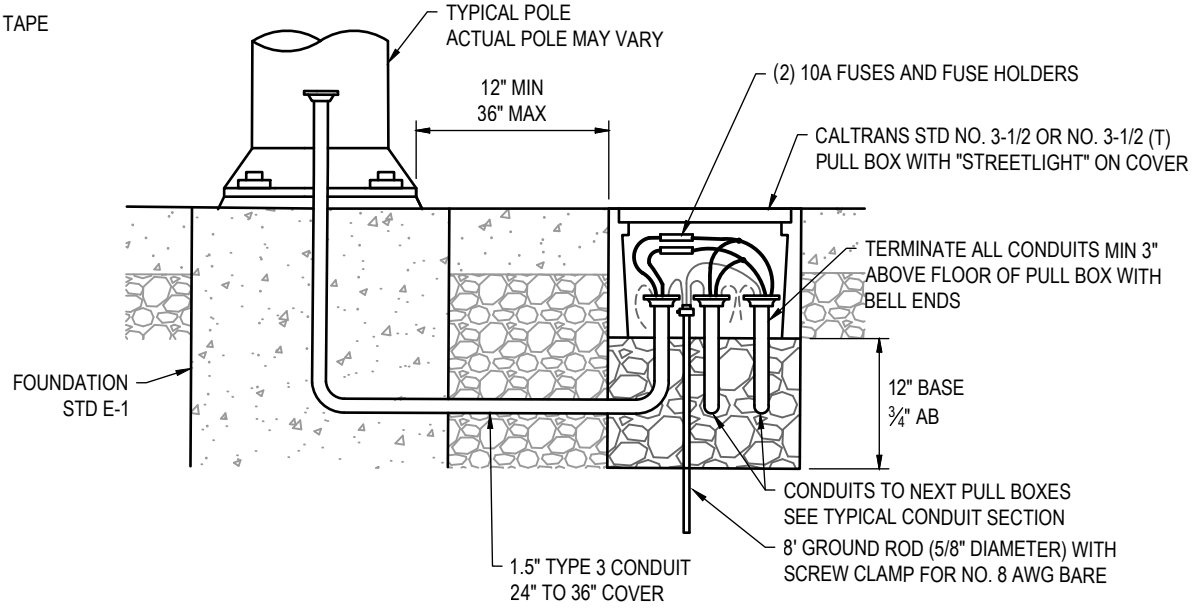
1. SPLICE STREETLIGHT CIRCUIT IN STANDARD PARALLEL.
2. LEAVE 3-FT OF SLACK FOR ALL CONDUCTORS IN PULL BOXES.
3. LEAVE 2-FT OF SLACK FOR ALL PULL TAPES IN PULL BOXES AND SECURE ENDS TO PREVENT UNINTENTIONAL PULL THROUGH.
4. CLAMP CONDUCTOR TO ROD IN POLE OR INSTALL GROUNDING NUT.
5. WHERE DIRECT BURIAL SECONDARY IS NOT AVAILABLE, PROVIDE CONDUIT AND CABLE TO THE NEAREST SECONDARY SERVICE POINT PROVIDED BY PG&E.
6. WHEN INSTALLING FUSE HOLDERS, COVER CRIMP TERMINAL WITH VINYL ELECTRICAL TAPE TO ENSURE WATERPROOF CONNECTIONS.

STREETLIGHT CIRCUIT FUSE SPECIFICATIONS:

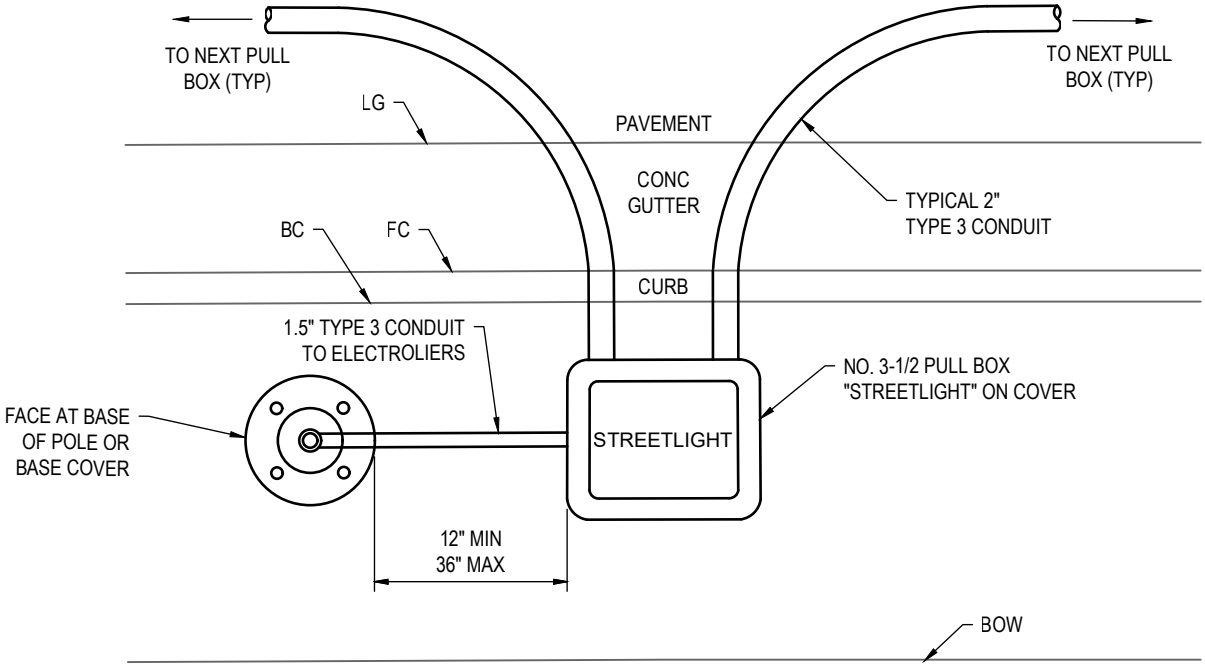
1. 30A AND 10A FUSES USED IN STREETLIGHT CIRCUITS SHALL BE $^{13}/_{32}$" X 1½" SIZE WITH MELAMINE BODIES AND NICKEL OR COPPER ALLOY ENDS CAPS.
2. FUSES SHALL BE FAST ACTING TYPE RATED FOR 600V WITH AN AC INTERRUPTING CURRENT OF 100KA.
3. FUSES SHALL BE UL-248-14 LISTED, CSA CERTIFIED, AND ROHS COMPLIANT. TYPICAL APPLICATIONS LISTED FOR FUSES SHALL INCLUDE LIGHTING OR STREET LIGHTING. EXAMPLES OF ACCEPTABLE FUSES INCLUDE EATON BUSSMAN KTK SERIES AND LITTELFUSE KLK SERIES.
4. FUSE HOLDERS FOR STREETLIGHT CIRCUITS SHALL BE NON-BREAKAWAY, IN-LINE, SINGLE-POLE, SUBMERSIBLE TYPE.
5. FUSE HOLDERS SHALL BE RATED FOR 600V, UP TO 30A, LIMITED BY CONDUCTOR SIZE, AND SCCR = 200KA RMS SYM (DEPENDENT ON FUSE INTERRUPTING RATING).
6. FUSE HOLDER TERMINALS SHALL BE COPPER CRIMP TYPE.

CONDUCTOR LEGEND

- CIRCUIT CONDUCTOR
- BARE COPPER GROUND
- PULL TAPE



ELEVATION



PLAN

NOTES:

1. REFER TO DETAIL E-1 FOR CONSTRUCTION SPECIFICATIONS.
2. PULL BOX LOCATION MAY VARY. PREFERRED LOCATION IS ADJACENT TO THE POLE BASE PARALLEL TO THE STREET AS SHOWN.

CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

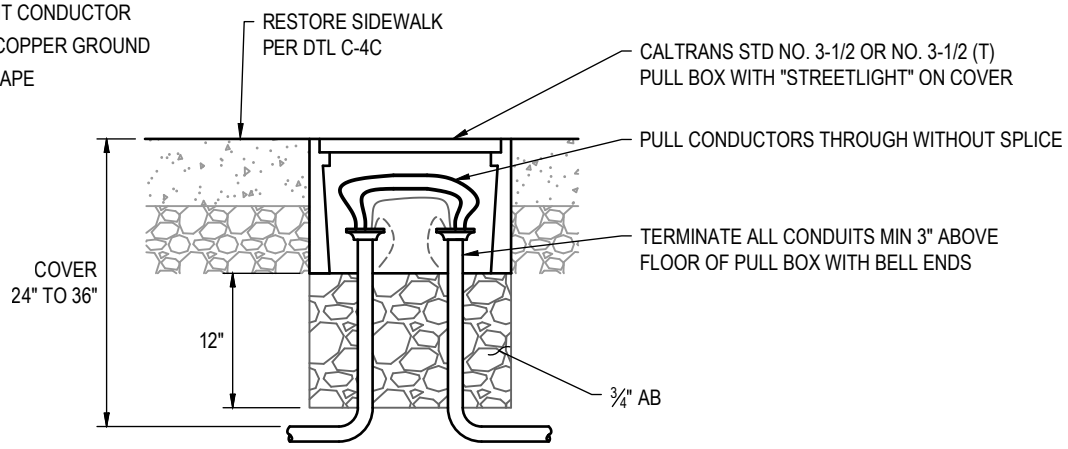
TYPICAL ELECTROLIER PULL BOX

DATE
8/17/2022

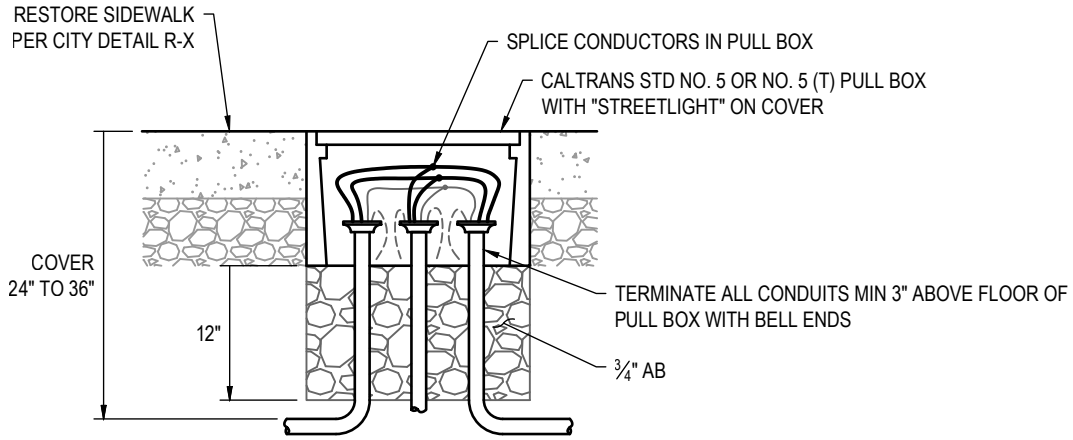
SHEET
E-2

CONDUCTOR LEGEND

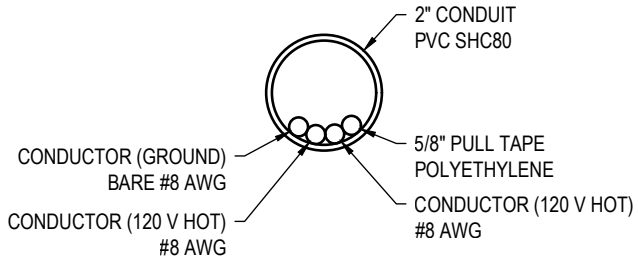
- CIRCUIT CONDUCTOR
- BARE COPPER GROUND
- PULL TAPE



TYPICAL MID-RUN PULL BOX



TYPICAL JUNCTION PULL BOX



TYPICAL CONDUIT

NOTE:

1. REFER TO DETAIL E-1 FOR CONSTRUCTION SPECIFICATIONS.
2. PULL BOXES SHALL BE TRAFFIC RATED WHEN LOCATED IN THE ROADWAY OR VEHICULAR PATHS.

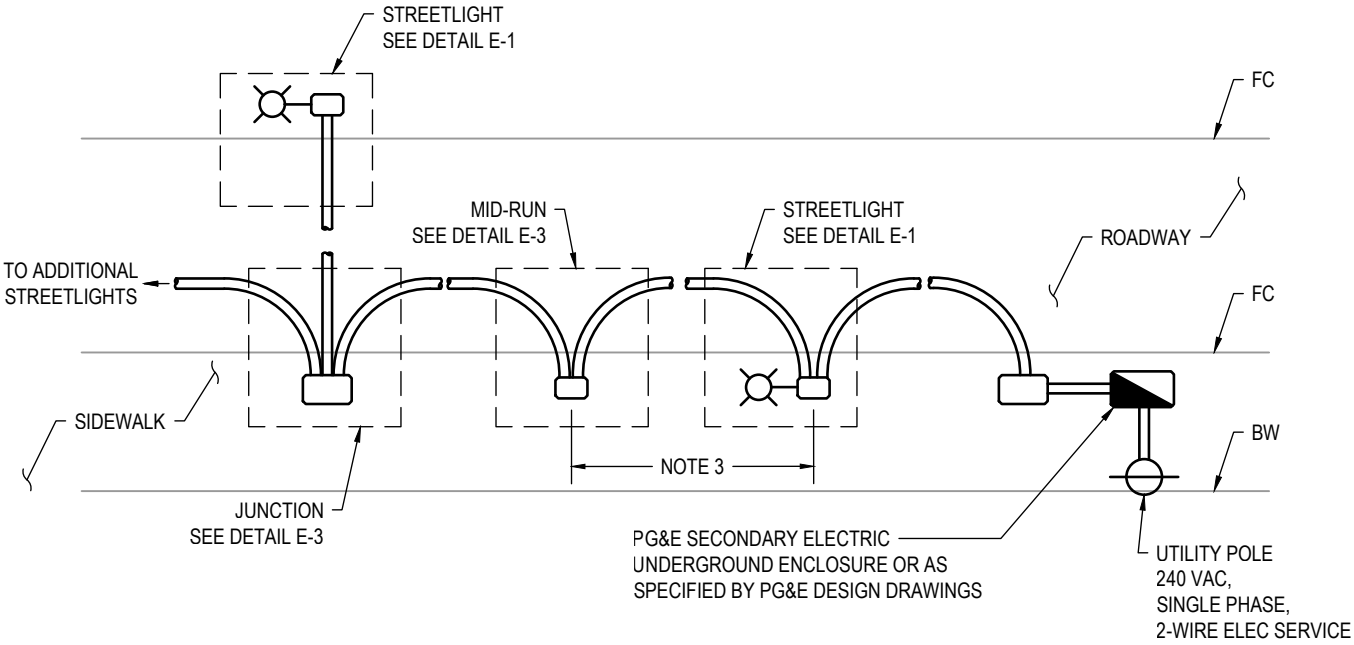
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

TYPICAL PULL BOX AND CONDUIT

DATE
8/17/2022

SHEET
E-3



TYPICAL CIRCUIT LAYOUT

NOTES:

1. REFER TO DETAIL E-1 FOR CONSTRUCTION SPECIFICATIONS.
2. LOCATION OF EQUIPMENT MAY VARY.
3. MAXIMUM DISTANCE BETWEEN PULL BOXES SHALL BE 200-FT.
4. PULL BOXES SHALL BE NO.3-1/2 AND NO.5 PULL BOXES PER CALTRANS STANDARD PLANS. USE TRAFFIC RATED PULL BOXES AND LIDS IF LOCATED IN THE ROADWAY.
5. PULL BOX SIZES SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED ON THE PROJECT PLANS OR A SUBSTITUTION IS APPROVED BY THE CITY.

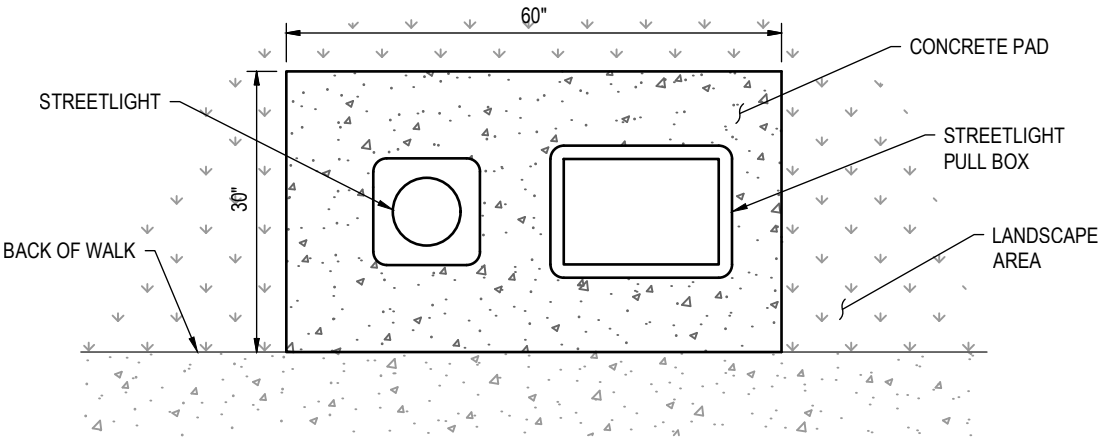
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

TYPICAL UNMETERRED CIRCUIT LAYOUT

DATE
8/17/2022

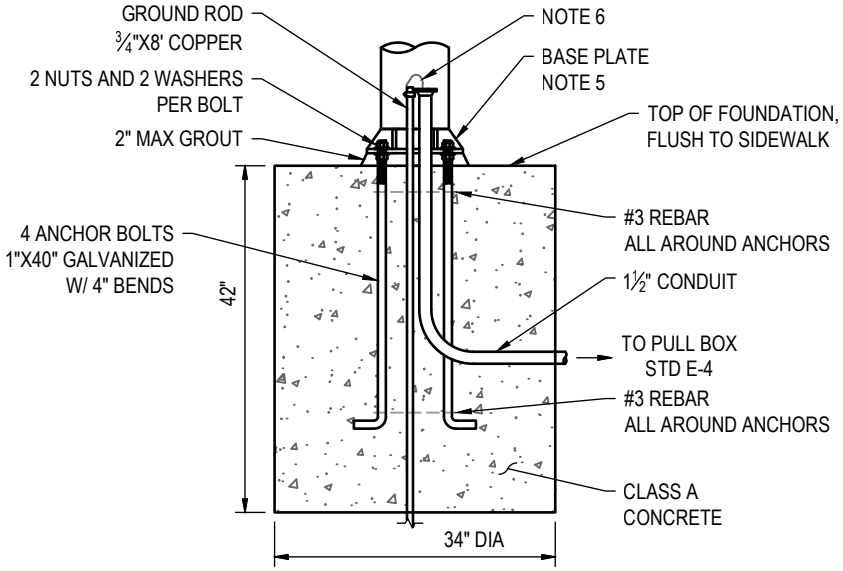
SHEET
E-4



MAINTENANCE PAD

PAD NOTES:

1. WHERE STREETLIGHTS ARE LOCATED IN LANDSCAPE AREA, PROVIDE A 30"X60" CONCRETE FOUNDATION CAP PAD AROUND LIGHT FLUSH TO ADJACENT SIDEWALK OR 2-INCHES ABOVE ADJACENT GRADE. INCLUDE THE ASSOCIATED PULL BOX IN PAD



FOUNDATION SECTION

FOUNDATION NOTES:

1. BASE PLATE SHALL BE LEVELED USING 2" MAXIMUM GROUT AND INCLUDE BOLT COVERS.
2. CLAMP CONDUCTOR TO ROD IN POLE OR INSTALL GROUNDING NUT.
3. WHEN NEW FOUNDATION IS INSTALLED, THE ENTIRE SIDEWALK PANEL SHALL BE REPLACED.

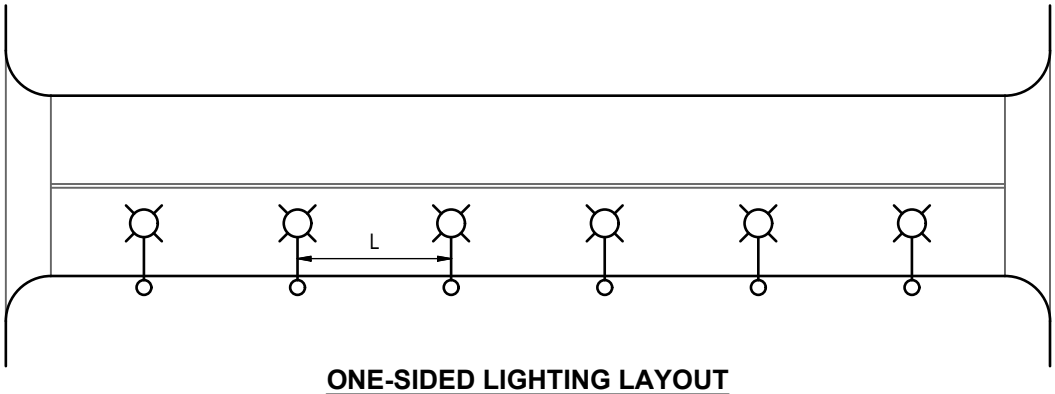
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

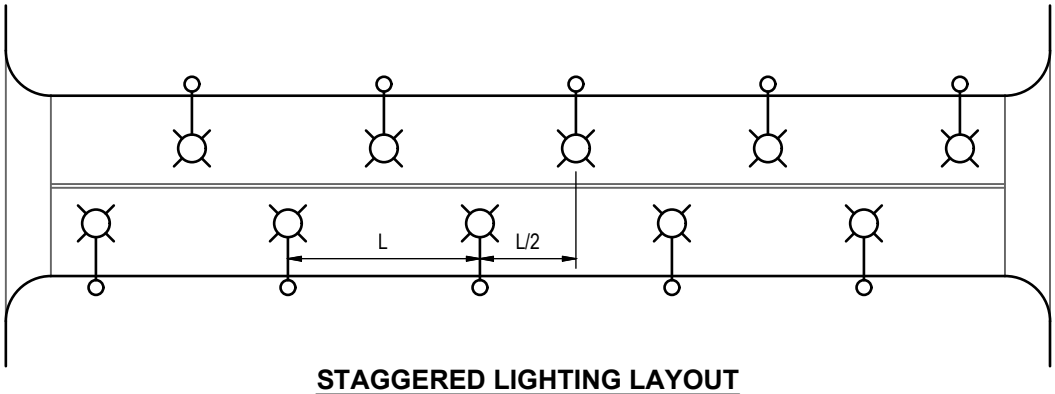
STANDARD STREETLIGHT FOUNDATION

DATE
8/17/2022

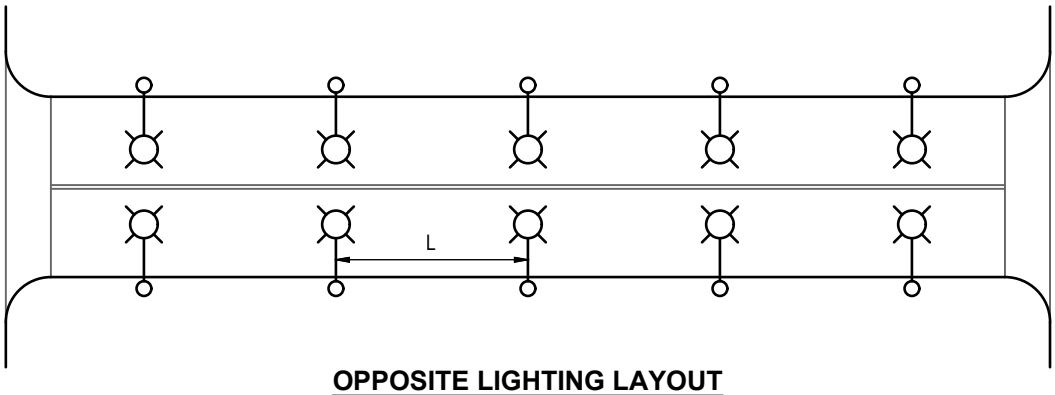
SHEET
E-5



ONE-SIDED LIGHTING LAYOUT



STAGGERED LIGHTING LAYOUT



OPPOSITE LIGHTING LAYOUT

STREET LIGHT LOCATION NOTES:

1. STREET LIGHT LAYOUT AS DETERMINED BY PUBLIC WORKS.
2. SEE STREET LIGHT SHEETS FOR "L" TYPICAL STREET LIGHT SEPARATION LENGTH.
3. STREET LIGHTING SHALL ALSO BE PROVIDED AT:
   - A. INTERSECTIONS
   - B. NEAR END OF CUL-DE-SACS
   - C. ABRUPT CHANGE IN STREET ALIGNMENT, GRADE, OR OTHER UNUSUAL CONDITIONS

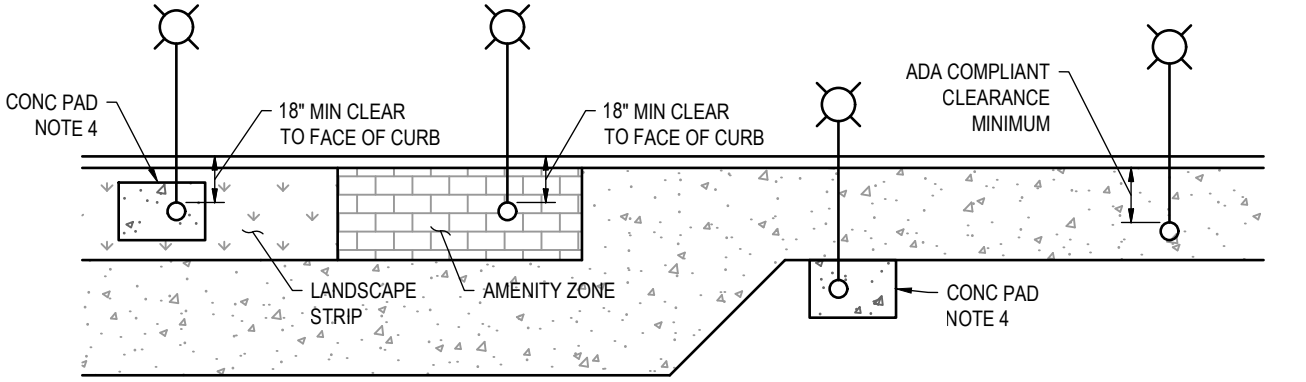
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

STREETLIGHT LAYOUTS

DATE
8/17/2026

SHEET
E-6A



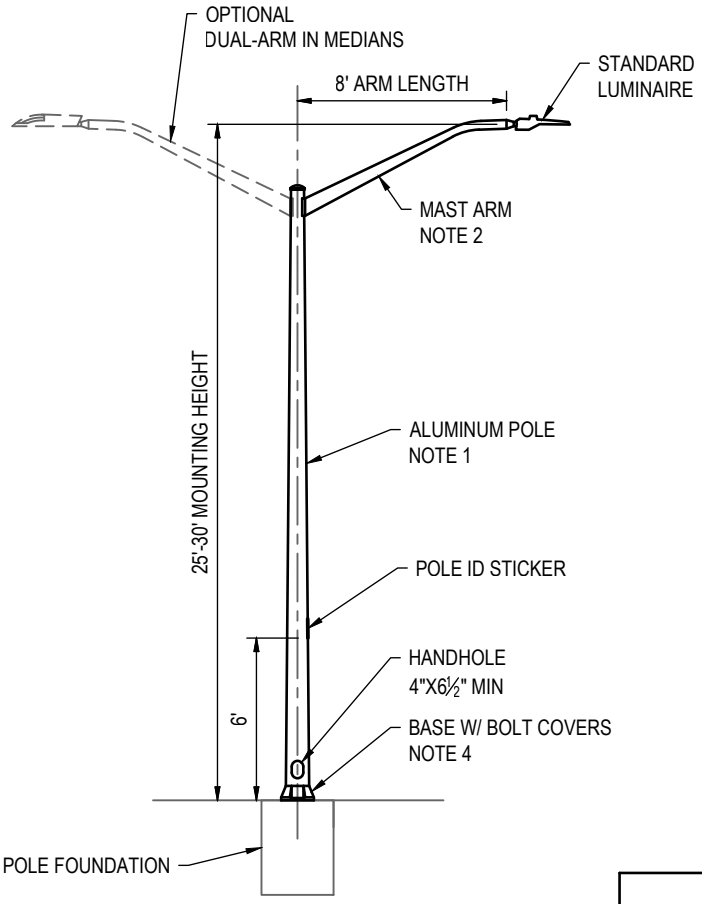
LOCATION 1	LOCATION 2	LOCATION 3	LOCATION 4
LANDSCAPE STRIP	AMENITY ZONE	BACK OF WALK	WITHIN SIDEWALK

POLE PLACEMENT PREFERENCES

PLACEMENT NOTES:

1. THE PREFERRED LOCATION OF STREETLIGHTS IS LOCATION 1 OR 2 IN THE LANDSCAPE/AMENITY ZONE.
2. WHERE SIDEWALK WIDTH IS LIMITED, PROVIDE STREET LIGHT AT THE BACK OF WALK AS SHOWN IN LOCATION 3.
3. WHERE NEITHER LOCATIONS 1, 2, OR 3 ARE AVAILABLE, PLACE STREETLIGHT POLE CLOSEST TO THE BACK OF WALK AS TECHNICALLY FEASIBLE FOR THE STREETLIGHT OR OTHERWISE PROVIDE ACCESSIBLE COMPLIANT SIDEWALK CLEARANCE.
4. WHERE STREETLIGHTS ARE LOCATED IN LANDSCAPE AREA, PROVIDE A 30"X60" CONCRETE FOUNDATION CAP PAD AROUND LIGHT FLUSH TO ADJACENT SIDEWALK OR 2-INCHES ABOVE ADJACENT GRADE. INCLUDE THE ASSOCIATED PULL BOX IN PAD.

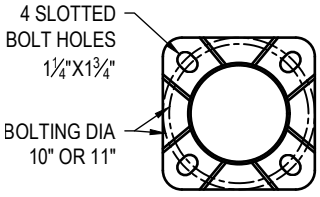
CITY OF SAN MATEO CALIFORNIA	DEPARTMENT OF PUBLIC WORKS STREETLIGHT PLACEMENT	DATE 8/17/2022~~8/1/2022~~ SHEET E-6B



LUMINAIRE CONFIGURATION

NOTES:

1. POLES SHALL BE SPUN ALUMINUM 6063-T6, 0.188" NOMINAL WALL THICKNESS OR EQUAL.
2. LUMINAIRE ARMS SHALL BE TAPERED ELLIPTICAL ALUMINUM 6063-T6 ABLE TO ACCOMMODATE 2" SLIPFITTER TYPE LUMINAIRES.



BASE PLATE

BOLT DIAMETERS	
STREET CLASS	BOLT DIA
LOCAL	10"
COLLECTOR	11"
ARTERIAL	

STREET LIGHTING FIXTURE TABLE

STREET CLASS (ROAD WIDTH)	LIGHT LAYOUT	"L" SPACING (FT)	MOUNTING HEIGHT (FT)	LUMINAIRE TYPE BY PEDESTRIAN ACTIVITY LEVEL		
				LOW	MED	HIGH
LOCAL (25' - 30')	ONE-SIDED	100	25	CH-40	CH-60	CH-6000
	STAGGERED	150		CH-4000	CH-4000	CH-6000
COLLECTOR (35 '- 45')	STAGGERED	150	30	CH-4000	CH-6000	CH-7500
	OPPOSITE	150		CH-4000	CH-6000	CH-7500
ARTERIAL (50' - 60')	STAGGERED	150	30	CH-7500	CH-10000	CH-12000
	OPPOSITE	150		CH-7500	CH-10000	CH-12000

STANDARD LUMINAIRE TYPES

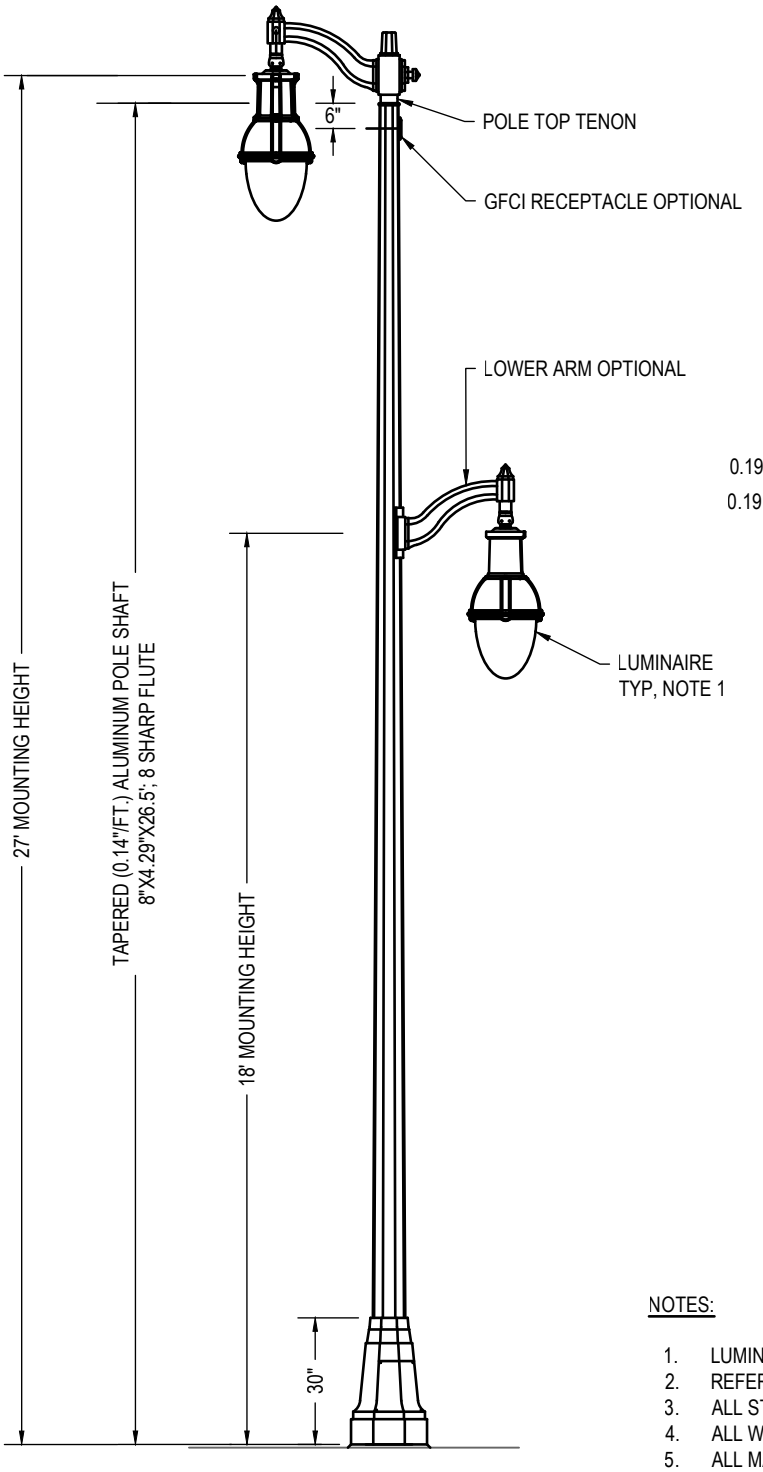
TYPE	OUTPUT (lm)	DISTRIBUTION	COLOR TEMP (K)	COLOR INDEX (CRI)	B/U/G RATING	POWER (W)	MAKE	ORDERING SPECIFICATIONS
CH-4000	3,750	TYPE III MID	4000	70	1/0/1	26	CREE	GWYS-A-4L-40K7-3M-UL-GY-Q9
CH-6000	5,625	TYPE III MID	4000	70	1/0/1	38	CREE	GWYS-A-6L-40K7-3M-UL-GY-Q9
CH-7500	7,500	TYPE III MID	4000	70	2/0/2	50	CREE	GWYS-A-8L-40K7-3M-UL-GY-Q9
CH-10000	10,175	TYPE III MID	4000	70	2/0/2	64	CREE	GWYS-A-13L-40K7-3M-UL-GY-Q5
CH-12000	12,600	TYPE III MID	4000	70	2/0/2	81	CREE	GWYS-A-13L-40K7-3M-UL-GY-Q9

CITY OF SAN MATEO CALIFORNIA

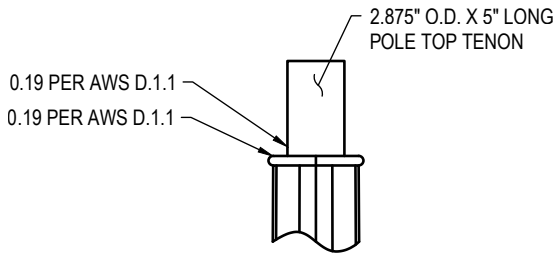
DEPARTMENT OF PUBLIC WORKS
STANDARD ELECTROLIER (COBRA HEAD)

DATE
8/17/2022

SHEET
E-7A



POLE ELEVATION



POLE TOP TENON

NOTES:

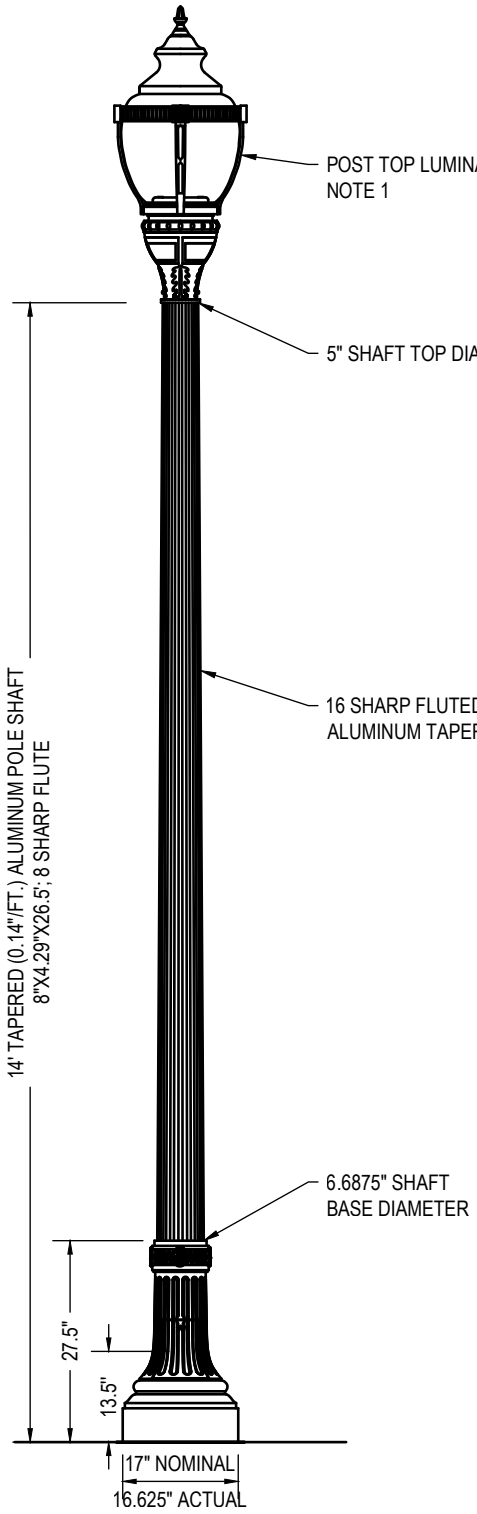
1. LUMINAIRE MODELS SHALL BE PER THE TRANSPORTATION DIVISION.
2. REFER TO STD E-1 FOR FOUNDATION AND ANCHORING.
3. ALL STEEL ASSEMBLIES GALVANIZED TO ASTM A123
4. ALL WELDS SHALL BE IN ACCORDANCE WITH AWS D1.1.
5. ALL MATERIAL FINISH COATS SHALL BE COLOR RAL-6012.
6. ALL MATERIAL SUBMITTALS TO BE APPROVED BY THE TRANSPORTATION DIVISION PRIOR TO ORDERING MATERIALS.

CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
DECORATIVE STREETLIGHT (PENDANT)

DATE
8/17/2022

SHEET
E-7B



POLE ELEVATION

NOTES:

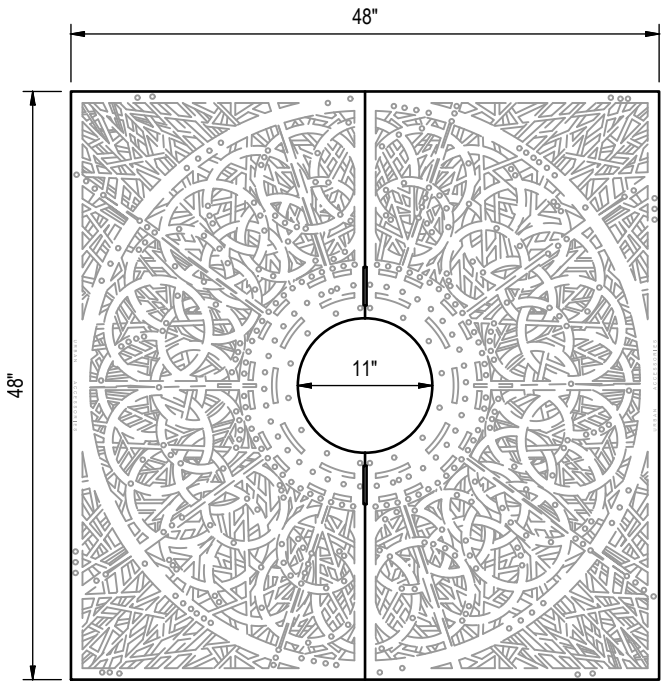
1. LUMINAIRE MODELS SHALL BE PER THE TRANSPORTATION DIVISION.
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5. ALL MATERIAL FINISH COATS SHALL BE COLOR RAL-6012.
6. ALL MATERIAL SUBMITTALS TO BE APPROVED BY THE TRANSPORTATION DIVISION PRIOR TO ORDERING MATERIALS.

CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
DECORATIVE STREETLIGHT (POST TOP)

DATE
8/17/2022

SHEET
E-7C



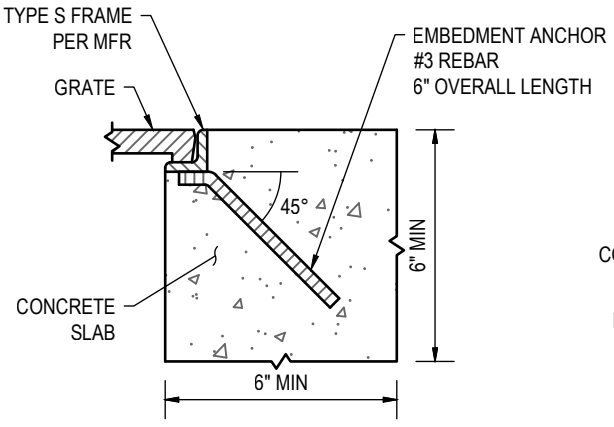
PLAN VIEW

NOTES:

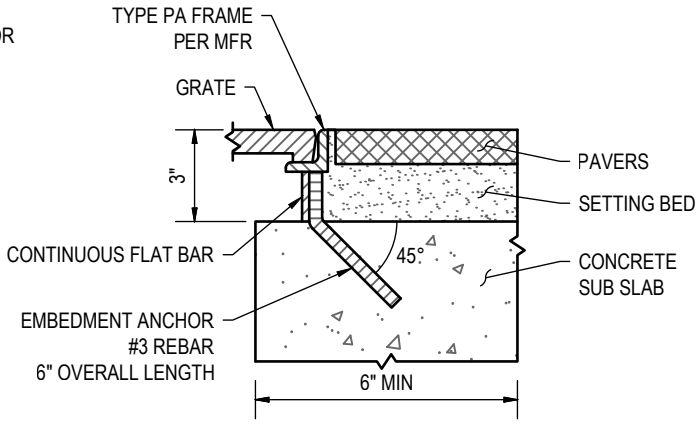
1. STANDARD TREE GRATE SHALL BE BY URBAN ACCESSORIES, OT SERIES, TITLE 24, 4' X 4' SQUARE WITH 3/8" OR LESS SLOTS. SEMI-GLOSS BLACK POWDER COATING.
2. OT SERIES, TITLE 24 4' ROUND, IF APPROVED BY PUBLIC WORKS DIRECTOR.
3. TRAFFIC RATED GRATES REQUIRED BETWEEN CURB AND BACK OF SIDEWALK. IF INSTALLED BEHIND SIDEWALK, PEDESTRIAN RATED ALLOWED IF APPROVED BY PUBLIC WORKS DIRECTOR.
4. STAKE OPENINGS ARE REQUIRED. LIGHT PORTS AND IRRIGATION ACCESS CUTOUTS IF NECESSARY.
5. FOR INSTALLATION INTO EXISTING SIDEWALK, REFER TO URBAN ACCESSORIES FRAME SPECS TYPE R (IN CONCRETE) AND TYPE PA (IN PAVERS).

MANUFACTURER

URBAN ACCESSORIES:
465 EAST 15TH STREET, TACOMA, WA, 98421
(253) 572-1112



NEW CONSTRUCTION
CONCRETE SIDEWALK



NEW CONSTRUCTION
PAVER SIDEWALK

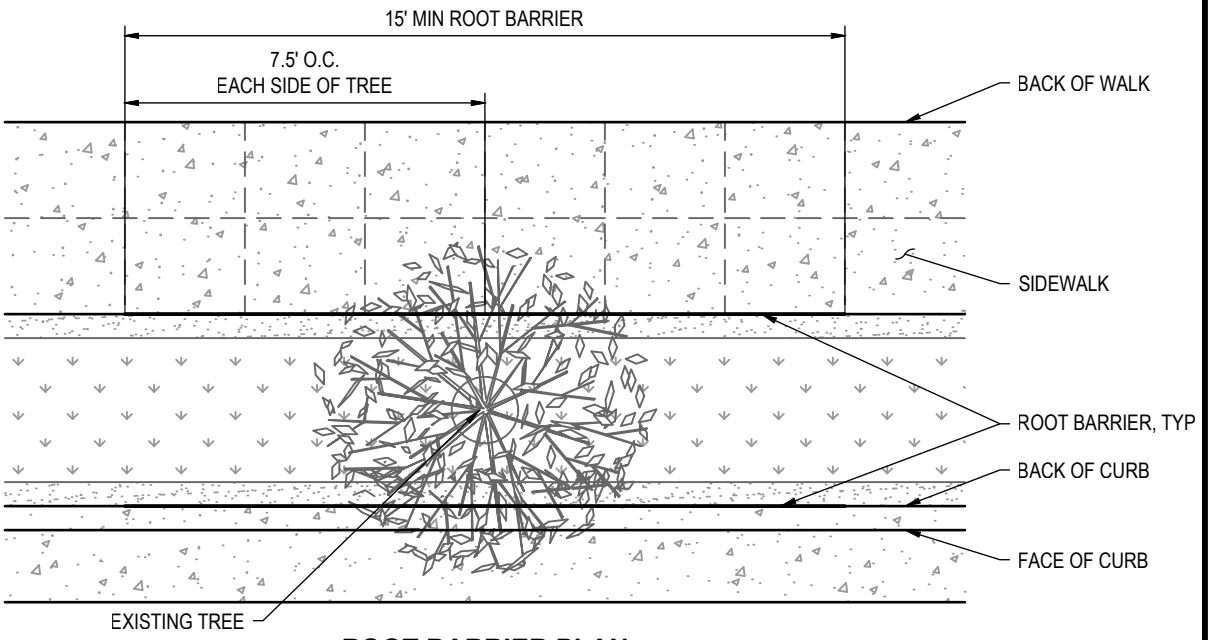
CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

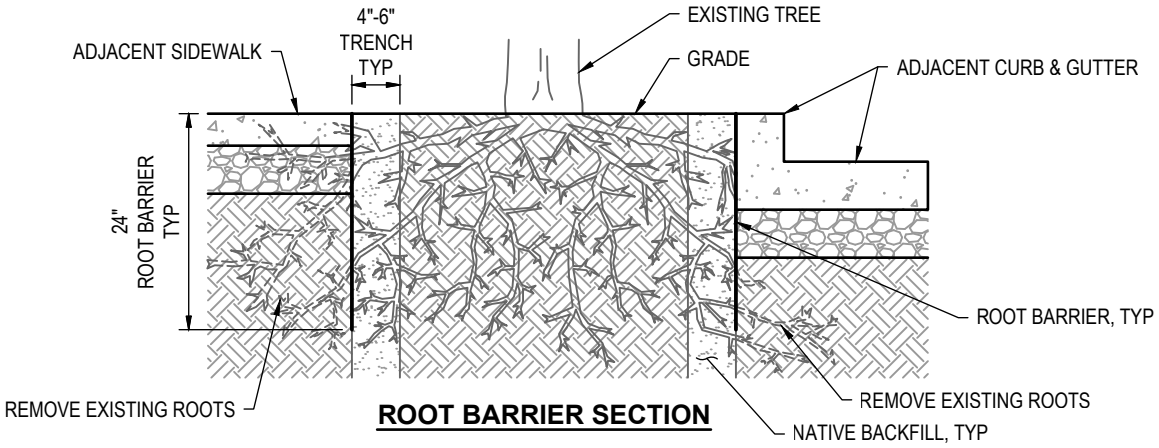
TREE GRATE

DATE
8/17/2022

SHEET
TR-1



ROOT BARRIER PLAN



ROOT BARRIER SECTION

NOTES:

1. ROOT BARRIER SHALL BE BLACK, INJECTION MOLDED PANELS OR LINEAR ROLL WITH 90° DEFLECTING RIBS. ROOT BARRIER SHALL BE MANUFACTURED WITH 50% POST CONSUMER POLYPROPYLENE PLASTIC WITH ADDED ULTRAVIOLET INHIBITORS AND SHALL BE RECYCLABLE.
2. ROOT BARRIER SHALL HAVE A MINIMUM WALL THICKNESS OF 0.06" (60 mil) & RIB THICKNESS OF 0.08" (80 mil).
3. VERTICAL ROOT DEFLECTING RIBS SHALL BE FACING INWARD TO THE ROOT BALL.
4. ROOT BARRIER SHALL BE MINIMUM 15' LONG AND 7.5' O.C. FROM TREE UNLESS APPROVED OTHERWISE BY PUBLIC WORKS DIRECTOR.
5. ROOT BARRIER SHALL BE INSTALLED VERTICALLY IN TRENCH ADJACENT TO SIDEWALK AND CURB AT GRADE.
6. PRIOR TO CUTTING ANY ROOTS FOR PROTECTED TREES (DEFINED IN S.M.M.C. CHAPTER 13.40), A TREE PERMIT SHALL BE OBTAINED FROM THE DEPARTMENT OF PARKS & RECREATION.

CITY OF SAN MATEO CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

TREE ROOT BARRIER

DATE
8/17/2022

SHEET
TR-2