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Thu 10 Jun 21 09:00:07 PM

SECTION 100

GENERAL SPECIFICATIONS

- 101 GENERAL STREET SPECIFICATIONS
- 102 UNDERGROUND UTILITY LINE LOCATIONS
- 103 UNDERGROUND SERVICE LINES AND LATERALS
- 104 UTILITY SYMBOLS AND ABBREVIATIONS
- 105 UTILITY TRENCH REPAIR DETAIL
- 106 SIGN LOCATIONS ON PUBLIC STREETS
- 107 SIGHT DISTANCE SET BACK
- 108 COLD PLANE DETAIL
- 109 STANDARD LOT DRAINAGE
- 110 SIDEWALK TREE PLANTER DETAIL
- 111 TREETWELL REPAIR DETAIL



CITY OF SOLVANG - STANDARD DETAILS

GENERAL SPECIFICATIONS

APPROVED BY PUBLIC WORKS DIRECTOR:
MATT VAN DER LINDEN, PE *Matt van der Linden*

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100
1 OF 1

STREET SPECIFICATIONS

1. THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS), STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OR ASTM STANDARD SPECIFICATIONS LATEST EDITION, SHALL BE THE REFERENCE STANDARD FOR ALL PUBLIC WORKS IN THE CITY OF SOLVANG. THE CITY OF SOLVANG STANDARD DETAILS TAKE PRECEDENCE OVER ANY REFERENCE STANDARDS IN THE EVENT OF CONFLICT. IN THE EVENT THAT NO CITY OF SOLVANG STANDARD DETAIL ADDRESSES A CERTAIN ASPECT OF CONSTRUCTION, THE STANDARD DETAILS OF THE COUNTY OF SANTA BARBARA OR CALTRANS SHALL BE UTILIZED.
2. CONSTRUCTION PLANS FOR ALL PUBLIC WORKS PROJECTS SHALL BE PREPARED IN ACCORDANCE WITH CITY OF SOLVANG DEPARTMENT OF PUBLIC WORKS ENGINEERING DESIGN STANDARDS. SEE GENERAL PROVISIONS.
3. COMMENCEMENT OF CONSTRUCTION SHALL NOT BE AUTHORIZED UNTIL SUCH TIME THAT THE CONSTRUCTION PLANS HAVE BEEN APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR HIS AUTHORIZED AGENT.
4. THE DIRECTOR OF PUBLIC WORKS SHALL BE INTERPRETED TO MEAN THE DIRECTOR OR HIS DELEGATED REPRESENTATIVES.
5. UNLESS PRIOR AUTHORIZATION HAS BEEN GRANTED BY THE DEPARTMENT OF PUBLIC WORKS, ALL ELEVATIONS AND GRADES SHALL BE BASED ON CITY OF SOLVANG BENCHMARK INDEX, LATEST EDITION. AVAILABLE AT CITYOFSOLVANG.COM.
6. THE ENGINEER OR LAND SURVEYOR FOR THE OWNER, DEVELOPER OR SUBDIVIDER SHALL BE HELD RESPONSIBLE FOR THE GRADE STAKES BEING PLACED AT THEIR CORRECT LOCATIONS AND ELEVATIONS, PROPERLY MARKED, FOR USE IN THE DETERMINATION OF THE PROPER LOCATION AND GRADE OF CONSTRUCTION.
7. INSPECTION AND APPROVAL BY THE DIRECTOR OF PUBLIC WORKS SHALL BE REQUESTED BY THE CONTRACTOR 48 HRS PRIOR TO COMMENCING AND PRIOR EACH PHASE OF CONSTRUCTION.
8. UTILITIES CONSTRUCTED UNDERGROUND SHALL BE STUBBED OUT TO THE PROPERTY LINES AT EACH LOT, AND TO EACH TRACT LINE AT END OR STUB STREETS BEING CONSTRUCTED, OR THROUGH STREETS BEING CONSTRUCTED AND TRENCH BACKFILL TESTED FOR COMPACTION AND APPROVED BEFORE BASE, PAVING AND OTHER PERMANENT SURFACE CONSTRUCTION MAY COMMENCE.
9. AGGREGATE SUB-BASE SHALL CONFORM TO THE PROVISIONS OF THE STANDARD SPECIFICATIONS, CALIFORNIA DEPARTMENT OF TRANSPORTATION, AND SHALL BE PLACED IN ACCORDANCE WITH THE APPROVED STRUCTURAL SECTIONS. CLASS 1, 2, AND 3 AGGREGATE SUB-BASE SHALL CONFORM WITH CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS OF CURRENT DATE.
10. AGGREGATE BASE SHALL CONFORM TO THE PROVISIONS OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND SHALL HAVE A MINIMUM THICKNESS OF 0.50 FOOT ON ALL ROADS AND BE COMPACTED TO 95% MAXIMUM DENSITY.
11. THE STRUCTURAL SECTION FOR NEW PUBLIC ROADS SHALL BE AS FOLLOWS: WHEN THE TRAFFIC INDEX IS LESS THAN 5.5, THE MINIMUM THICKNESS OF ASPHALT CONCRETE SHALL BE 0.20 FOOT. WHEN THE TRAFFIC INDEX IS 5.5 OR GREATER, THE MINIMUM THICKNESS OF ASPHALT CONCRETE SHALL BE 0.25 FOOT. THE ACTUAL THICKNESS OF THE STRUCTURAL SECTIONS SHALL BE DETERMINED FROM "R" VALUES BY TEST METHOD 301 CALIFORNIA DEPARTMENT OF TRANSPORTATION RESEARCH DEPARTMENT. FOR ALL PUBLIC ROADS, 0.75 FOOT OF NATIVE SOIL SUBGRADE SHALL BE COMPACTED TO 95% MAXIMUM DENSITY.
12. ALL OTHER ASPHALT CONCRETE SHALL BE SPREAD AND COMPACTED IN LAYERS. THE TOP LAYER OF ASPHALT CONCRETE SHALL BE 2.4 INCH. THE NEXT LOWER LAYER SHALL BE NOT MORE THAN 0.25 FOOT NOR LESS THAN 0.15 FOOT IN COMPACTED THICKNESS UNLESS THE TOTAL THICKNESS IS SHOWN ON THE PLANS TO BE 1.8 INCH IN COMPACTED THICKNESS. ASPHALT CONCRETE BASE SHALL BE SPREAD AND COMPACTED IN ONE OR MORE LAYERS. EACH LAYER SHALL NOT EXCEED 0.40 FOOT IN COMPACTED THICKNESS. ASPHALT CONCRETE FOR OVERLAY SECTIONS SHALL BE CONSTRUCTED WITH 1/2 INCH MAXIMUM AGGREGATE WITH MEDIUM GRADING. BINDER (ASPHALT EMULSION) SPRAYED SHALL BE BETWEEN EACH COURSE OF ASPHALT CONCRETE EXCEPT AS MAY BE PERMITTED BY THE DEPARTMENT OF PUBLIC WORKS IN CONTINUOUS PAVING OPERATIONS.

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CITY OF SOLVANG - STANDARD DETAILS

GENERAL STREET SPECIFICATIONS

APPROVED BY PUBLIC WORKS DIRECTOR: *Matt van der Linden*
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STREET SPECIFICATIONS

13. ROADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL SECTIONS SHOWN ON DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS OF CURRENT DATE, UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
14. STREET NAME SIGNS, BARRICADES, TRAFFIC CONTROL AND TRAFFIC WARNING SIGNS SHALL BE PLACED IN ACCORDANCE WITH DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS OF CURRENT DATE, THE WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH) AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
15. ROUGH GRADE STAKES SHALL BE SET AS REQUIRED FOR ADEQUATE CONTROL OF PRIMARY ROADWAY GRADING OPERATION. FINAL GRADE STAKES SHALL BE SET AT NOT GREATER THAN 50 FEET INTERVALS AND AT BC'S, EC'S, PI'S, CHANGES IN GRADE OR ALIGNMENT, AND AT OTHER POINTS OF CONTROL.
16. WATER FOR COMPACTION AND DUST CONTROL SHALL BE MADE AVAILABLE WITHIN THE BOUNDARIES OF THE TRACT PRIOR TO STARTING ANY EARTH MOVING OPERATION, OTHER THAN THAT NECESSARY FOR THE INSTALLATION OF SUBJECT WATER SOURCE.
17. PRIVATE IMPROVEMENTS OR CONSTRUCTION SHALL NOT COMMENCE UNTIL AN EXCAVATION PERMIT HAS BEEN ISSUED BY THE DIRECTOR OF PUBLIC WORKS.
18. ALL REINFORCING STEEL SHALL BE ASTM A 615, GRADE 60 UNLESS OTHERWISE NOTED.
19. ALL STRUCTURE STEEL SHALL BE ASTM A 36 UNLESS OTHERWISE NOTED.
20. EXPANSIVE SOILS ARE DEFINED AS THOSE SOILS HAVING AN "R" VALUE OF LESS THAN THEY ARE COMPOSED OF HIGH CLAY CONTENT AND EXPAND WITH MOISTURE.

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CITY OF SOLVANG - STANDARD DETAILS

GENERAL STREET SPECIFICATIONS

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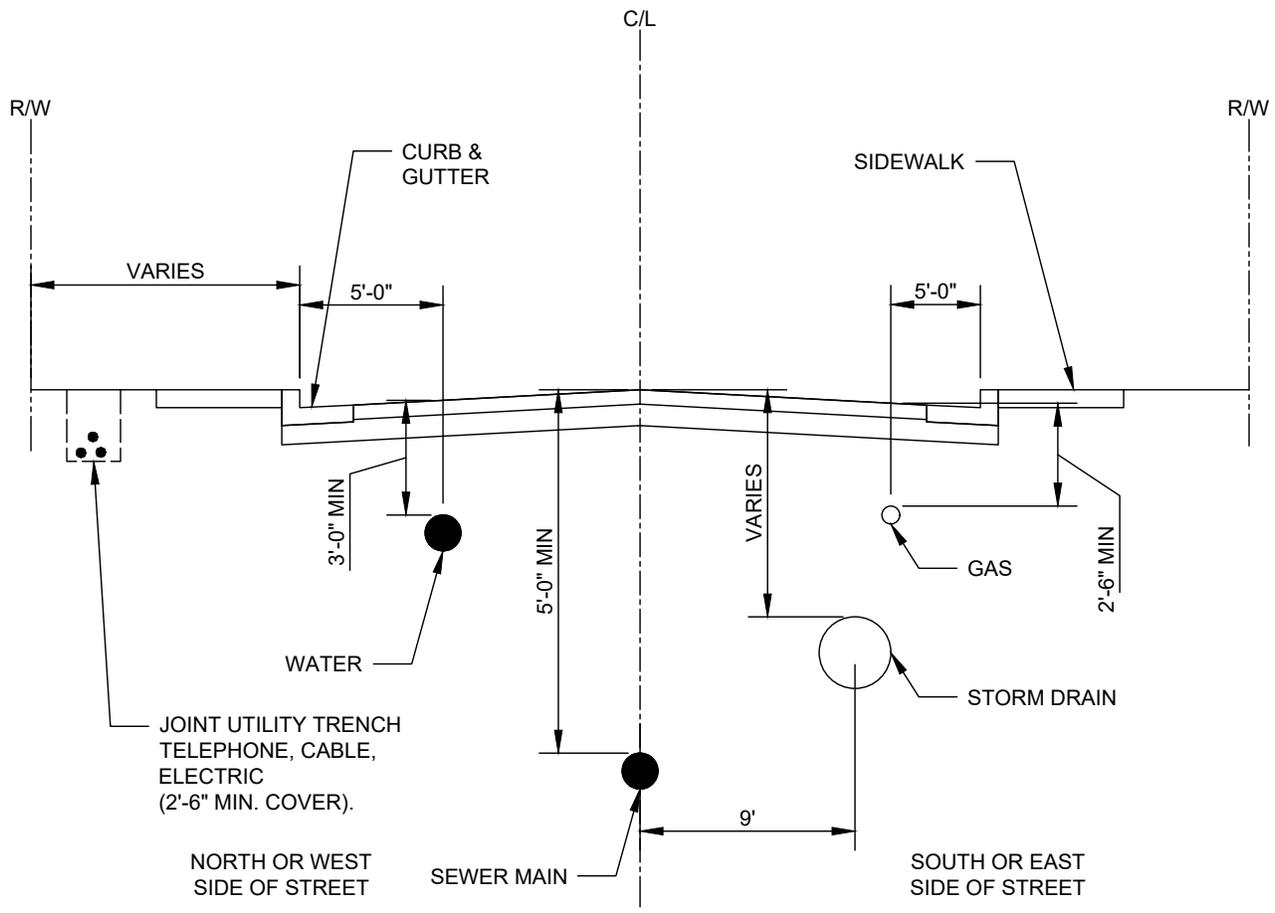
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NOTES:

1. ALL INSTALLATIONS IN PUBLIC RIGHT OF WAY SHALL BE APPROVED BY THE CITY FOR LOCATION ONLY.
2. ALL TRENCH BACKFILL REQUIREMENTS PER GENERAL SPECIFICATIONS AND DETAIL 105.
3. ANY UTILITY CUTS ACROSS STREET SHALL BE 90° TO STREET CENTERLINE.
4. EITHER SEWER OR WATER MAY BE INSTALLED IN NEW ALLEYS, BUT NOT BOTH. IN CASES WHERE NO ALTERNATIVE LOCATION FOR INSTALLATION EXISTS THE DIRECTOR OF PUBLIC WORKS WILL GIVE SPECIAL CONSIDERATION TO ALLOW THE INSTALLATION TO OCCUR. BUT, IN SUCH CASES SPECIAL CONSTRUCTION WILL BE REQUIRED.
5. TRANSVERSE CROSSINGS OF WATER MAINS WITH SEWER MAINS AND SEWER LATERALS SHALL COMPLY WITH STATE DEPT. OF HEALTH STANDARDS ON FILE AT PUBLIC WORKS DEPT., ENGINEERING DIVISION.



CITY OF SOLVANG - STANDARD DETAILS

UNDERGROUND UTILITY LINE LOCATIONS

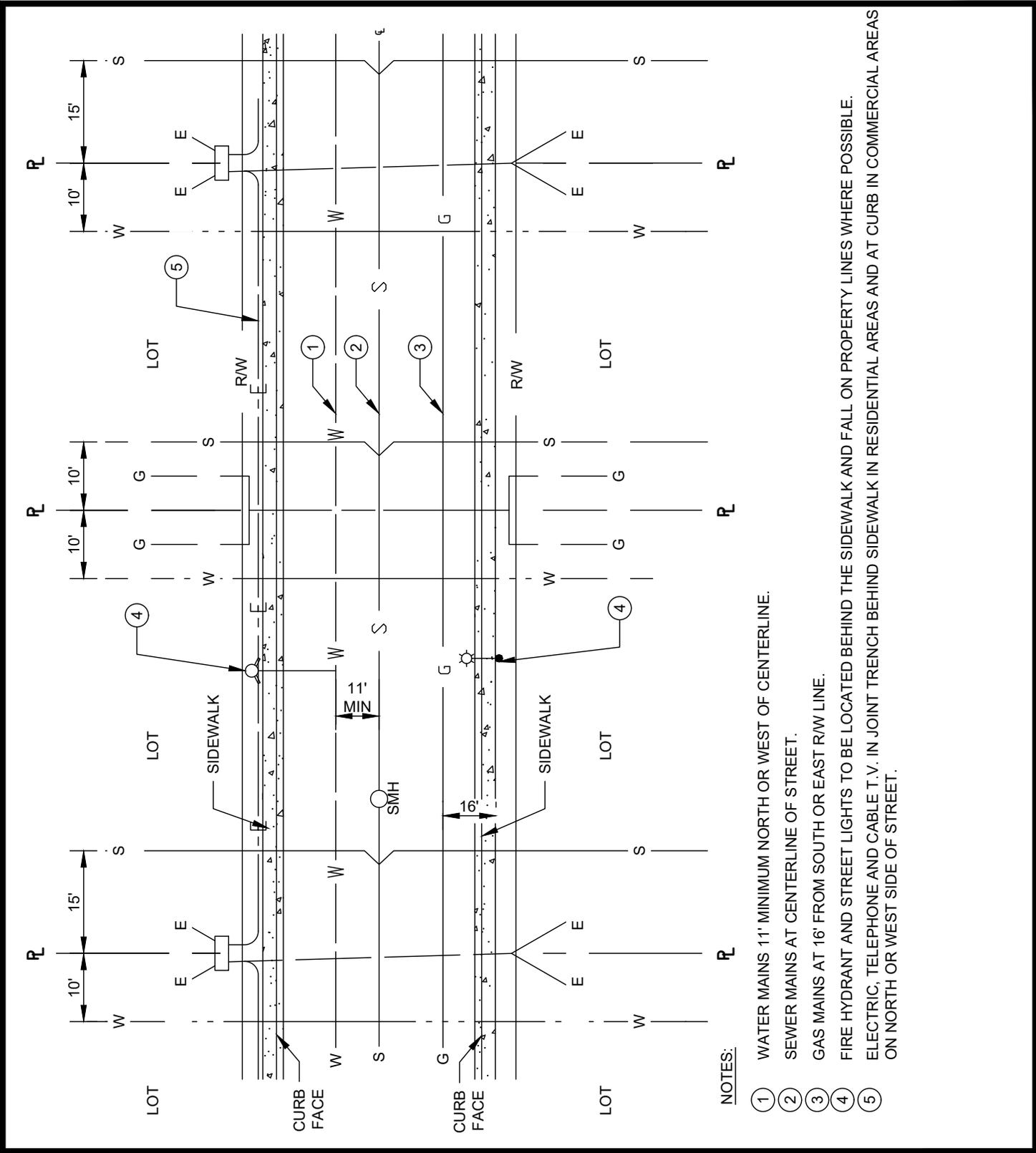
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102
1 OF 1



NOTES:

- ① WATER MAINS 11' MINIMUM NORTH OR WEST OF CENTERLINE.
- ② SEWER MAINS AT CENTERLINE OF STREET.
- ③ GAS MAINS AT 16' FROM SOUTH OR EAST R/W LINE.
- ④ FIRE HYDRANT AND STREET LIGHTS TO BE LOCATED BEHIND THE SIDEWALK AND FALL ON PROPERTY LINES WHERE POSSIBLE.
- ⑤ ELECTRIC, TELEPHONE AND CABLE T.V. IN JOINT TRENCH BEHIND SIDEWALK IN RESIDENTIAL AREAS AND AT CURB IN COMMERCIAL AREAS ON NORTH OR WEST SIDE OF STREET.



CITY OF SOLVANG - STANDARD DETAILS

UNDERGROUND SERVICE LINES AND LATERALS

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103
 1 OF 1

CONVENTIONAL SYMBOLS FOR EXISTING TOPOGRAPHY

	EXISTING	PROPOSED		EXISTING
CURB			UTILITY POLE	
CURB AND GUTTER			VALVE	
GUTTER			VAULT	
PAVEMENT	PCC 		WALL	BRICK (BLOCK)
	AC 			CONCRETE
				STONE
ACCESS RAMP			WELL	
BENCH MARK				
BUILDING				
DEAD MAN				
DRIVEWAY				
FENCE & GATE				
FIRE HYDRANT				
GUARDRAIL				
GUY POLE				
MANHOLE				
PIPE				
PROPERTY LINE				
RAILROAD				
RETAINING WALL				
RETAINING WALL WITH FENCE ON TOP				
RR XING PROTECTION		<u>TYPE OF PROTECTION</u>		
SHRUB				
SIDEWALK				
SIGN (1 POST)				
SIGN (2 POST)				
SIGNAL CONTROL BOX				
SIGNAL	FLASHING 			
	TRAFFIC 			
	LOOP 			
SMALL STREAM OR DITCH				
SPRINKLER HEAD				
STREET LIGHT				
TREE	PALM 			
	OAK 			
	OTHER 			

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CITY OF SOLVANG - STANDARD DETAILS

UTILITY SYMBOLS AND ABBREVIATIONS

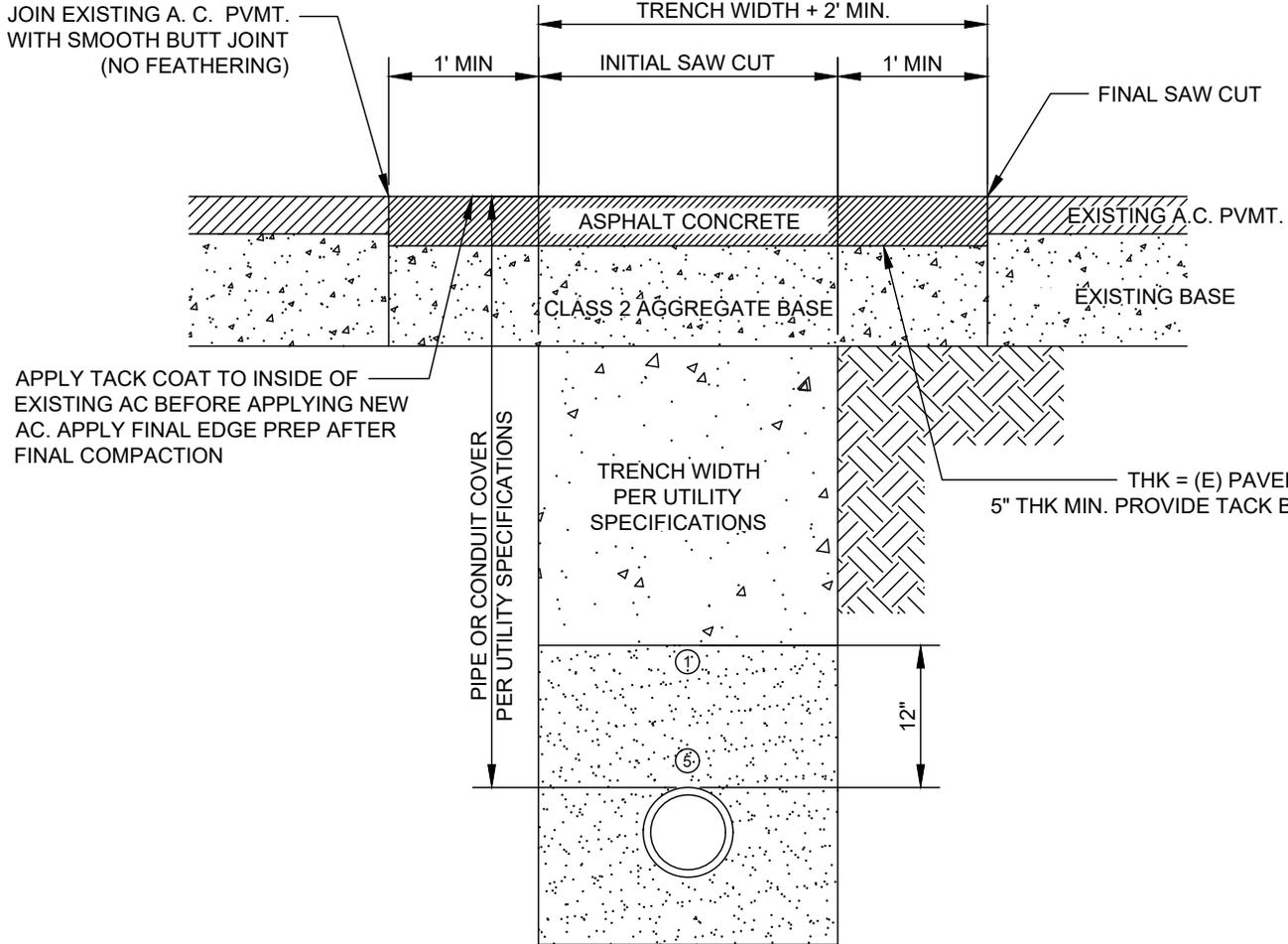
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104
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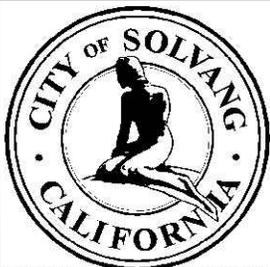
JOIN EXISTING A. C. PVMT. WITH SMOOTH BUTT JOINT (NO FEATHERING)

APPLY TACK COAT TO INSIDE OF EXISTING AC BEFORE APPLYING NEW AC. APPLY FINAL EDGE PREP AFTER FINAL COMPACTION

THK = (E) PAVEMENT + 1" 5" THK MIN. PROVIDE TACK BETWEEN LIFTS.

NOTES:

1. BACKFILL UNDER EXISTING OR PROPOSED PAVEMENT, INCLUDING SIDEWALKS, SHALL BE CEMENT SLURRY CLASS 100-E-100 (1 SACK/CUBIC YARD). IN OTHER LOCATIONS, BACKFILL SHALL BE PER SECTION 306-1.3.1 WITH MAXIMUM SIZE OF ROCKS BEING 2-1/2" IN ANY DIMENSION.
2. ALL BACKFILL SHALL BE COMPACTED TO NOT LESS THAN 95% RELATIVE DENSITY.
3. REPLACEMENT SECTION FOR ASPHALT CONCRETE PAVING SHALL BE NOT LESS THAN 4" OF ASPHALT CONCRETE ON NOT LESS THAN 6" OF CLASS 2 AGGREGATE BASE (CALTRANS SPEC.). IF THE EXISTING SECTION EXCEEDS THESE VALUES, MATCH EXISTING THICKNESSES.
4. IF EITHER SAW CUT LINE IS WITHIN 4' OF THE EDGE OF GUTTER, ALL PAVEMENT BETWEEN THE EDGE OF GUTTER AND THE FARTHER SAW CUT LINE SHALL BE REMOVED AND REPLACED.
5. BEDDING SHALL BE PER UTILITY SPECIFICATIONS. FOR WATER MAIN AND SANITARY SEWER CONSTRUCTION, BEDDING SHALL BE IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE PIPE MANUFACTURER. BEDDING COMPACTION SHALL RESULT IN NOT LESS THAN 90% RELATIVE DENSITY.



CITY OF SOLVANG - STANDARD DETAILS

UTILITY TRENCH REPAIR DETAIL

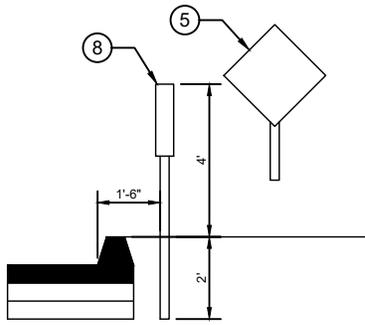
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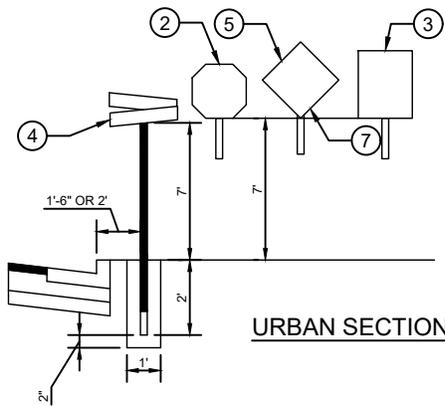
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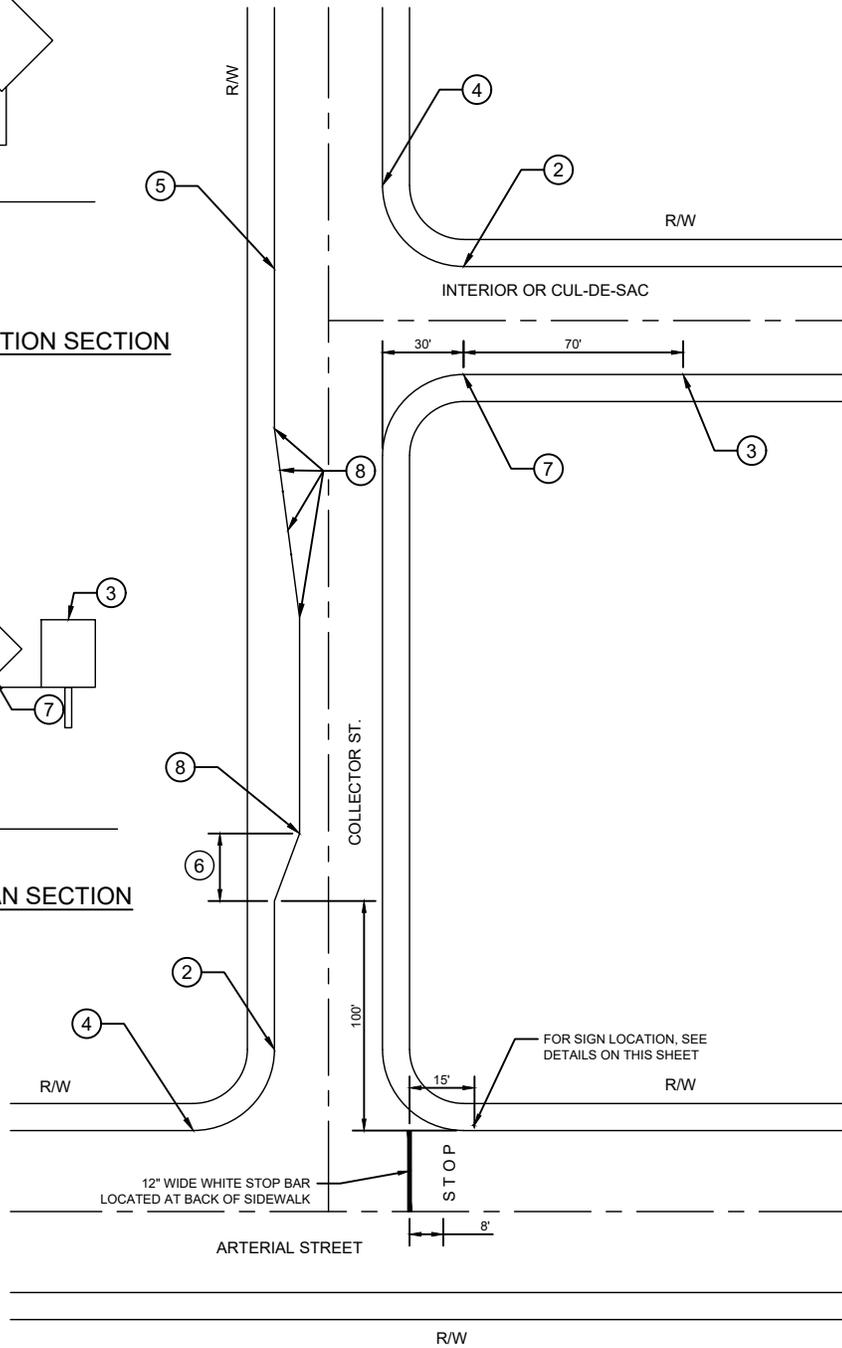
105
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RURAL AND TRANSITION SECTION



URBAN SECTION



CITY OF SOLVANG - STANDARD DETAILS

SIGN LOCATIONS ON PUBLIC STREETS

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106
1 OF 2

NOTES:

1. THE DESIGNATIONS OF TRAFFIC SIGNS SHALL BE CONSISTENT WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. "STOP" SIGNS, (R1 30"x30") AND LEGENDS SHALL BE INSTALLED ON NEW STREETS AS REQUIRED BY THE PUBLIC WORKS DIRECTOR. "STOP" SIGNS WILL REQUIRE PRIOR AUTHORIZATION BY RESOLUTION OF THE CITY COUNCIL.
3. SPEED LIMIT SIGN, (R2 24"x30") SHALL BE INSTALLED ON NEW STREETS AS REQUIRED BY THE PUBLIC WORKS DIRECTOR.
4. STREET NAME SIGNS SHALL BE LOCATED AND IN CONFORMANCE AS DIRECTED BY THE PUBLIC WORKS DIRECTOR.
5. AT PAVEMENT WIDTH TRANSITIONS, WHERE PAVEMENT NARROWS, ADVANCE SIGNING MAY BE REQUIRED BY THE PUBLIC WORKS DIRECTOR.
6. TAPER TRANSITION LENGTHS, FOR NARROWING OR WIDENING THE ROADWAY SHALL BE AS FOLLOWS:

DESIGN SPEEDS	TAPER RATE
30 mph or less	15ft/ft
35 mph	20ft/ft
40 mph	25ft/ft
45 mph	30ft/ft
50 mph	35ft/ft

7. "NOT A THROUGH STREET" SIGN, W53 OR W53A (24"x24"), SHALL BE PLACED AS SHOWN WHERE A STREET ENDS IN A CUL-DE-SAC.
8. TYPE I FLEXIBLE GUIDE MARKERS (8"x24") IN CONFORMANCE WITH THE MUTCD SHALL BE PROVIDED ALONG THE PAVEMENT TRANSITION.

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CITY OF SOLVANG - STANDARD DETAILS

SIGN LOCATIONS ON PUBLIC STREETS

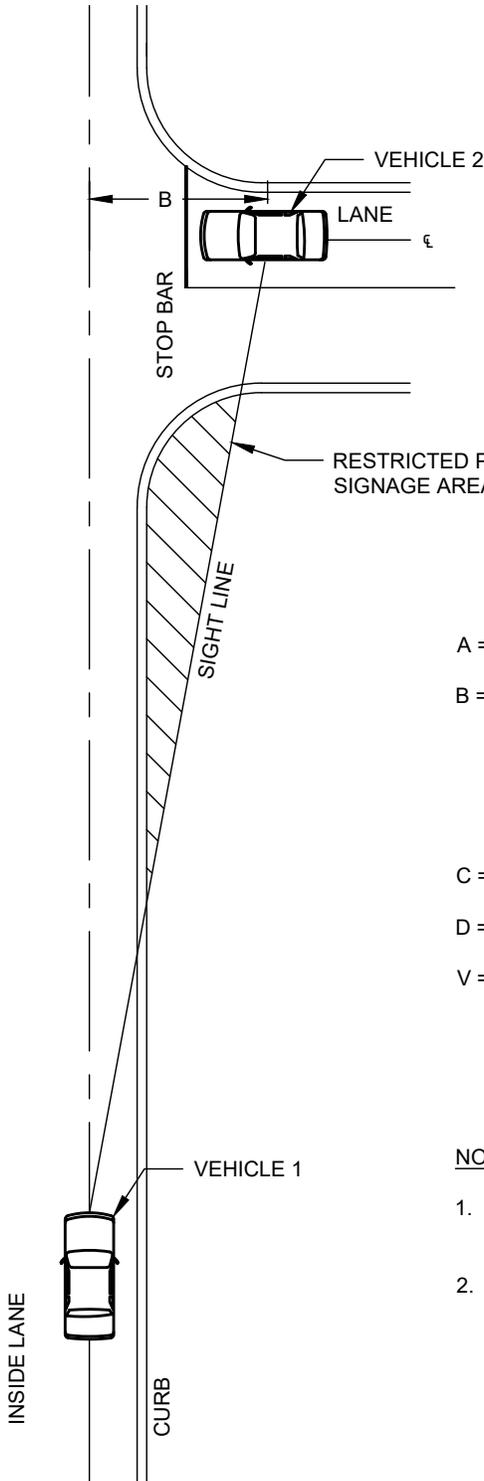
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106
 2 OF 2



A (ft.)	B (ft.)	SET BACK = C(FT.)		
		30 MPH	40 MPH	50 MPH
10	25	198	264	330
12	27	183	245	306
14	29	171	228	285

$C = D(B-A)/B$
 $D = 11 \times V$

V MPH	D (FT.)
30	330
40	440
50	550

- A = DISTANCE FROM CENTERLINE OF VEHICLE 1 TO THE CURB FACE.
- B = DISTANCE FROM CENTERLINE OF VEHICLE 1 TO THE LINE OF SIGHT OF VEHICLE 2 DRIVER. VEHICLE 2 DRIVER'S EYE IS ASSUMED TO BE 8' BEHIND STOP BAR. STOP BAR IS LOCATED A MINIMUM OF 6' FROM TRAVELED WAY OR AT OUTSIDE EDGE OF SHOULDER, IF GREATER. WHERE A CROSSWALK IS PROVIDED, IT IS ASSUMED THAT THE VEHICLE WILL STOP AT EDGE OF CROSSWALK.
- C = SETBACK FROM INTERSECTION OF SIGHT LINE ALONG CURB FACE.
- D = SIGHT DISTANCE ALONG HIGHWAY FROM INTERSECTION.
- V = ANTICIPATED PREVAILING SPEED ON CROSSROAD.

NOTES:

1. TABULAR VALUES BASED ON THE FOLLOWING WIDTHS: SIDEWALK = 5'; CROSSWALK = 6'; STOP BAR AND CROSSWALK LINES = 12"
2. DATA FOR UNSIGNALIZED INTERSECTIONS BASED ON 7 1/2 SECOND HORIZONTAL SIGHT DISTANCE CRITERIA.



CITY OF SOLVANG - STANDARD DETAILS

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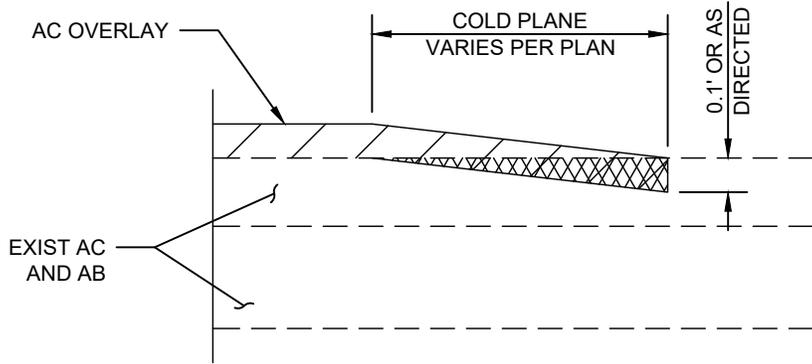
SIGHT DISTANCE SET BACK

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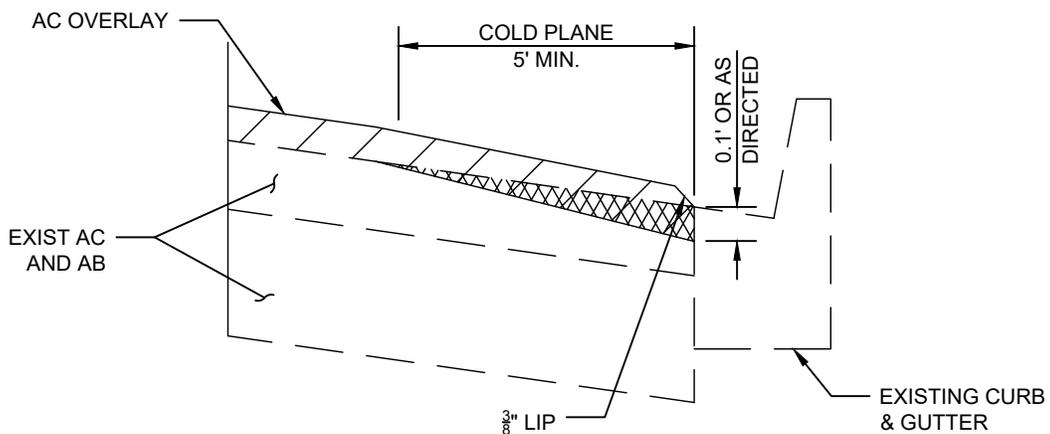
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IN STREET SECTION



ALONG CURB AND GUTTER



CITY OF SOLVANG - STANDARD DETAILS

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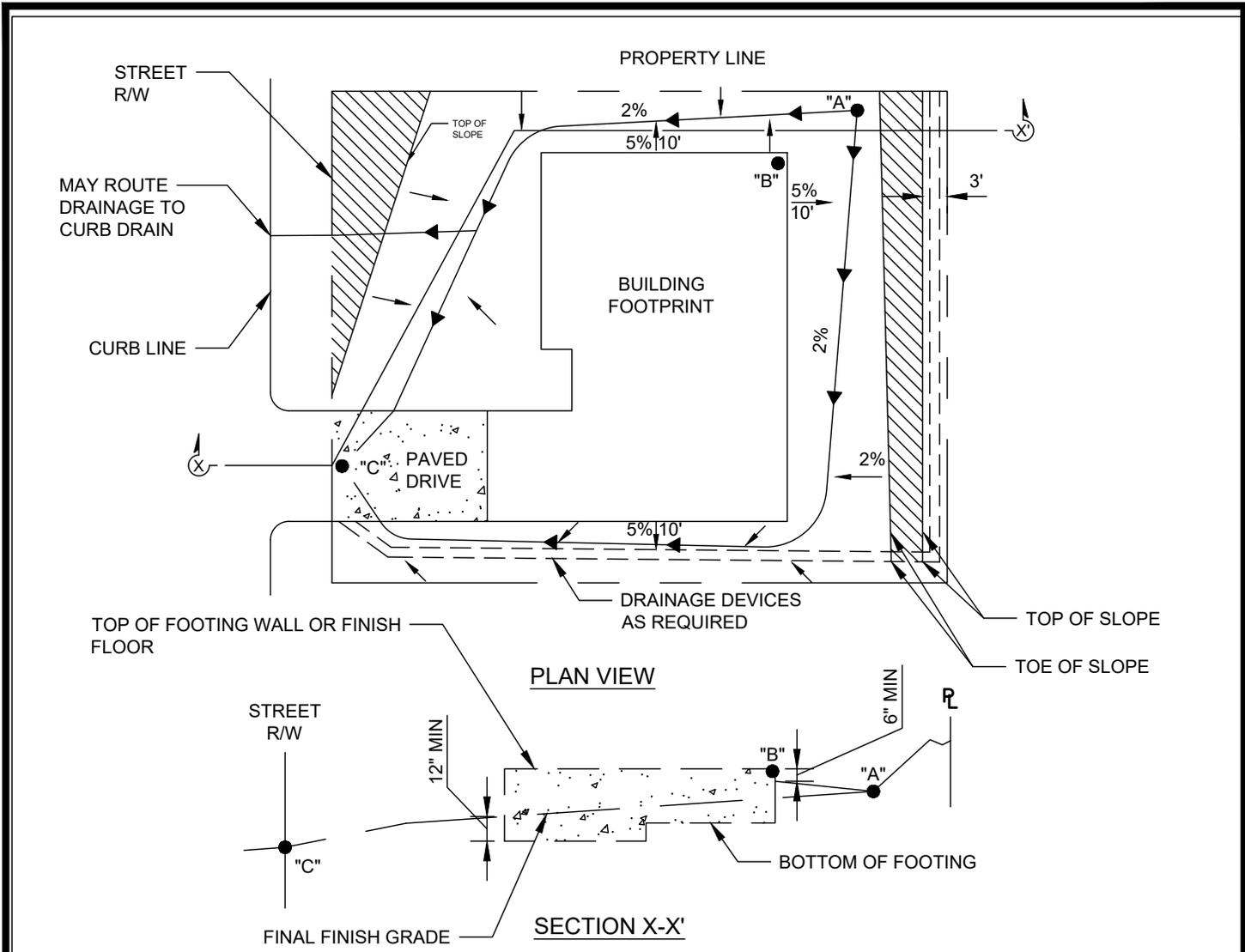
COLD PLANE DETAIL

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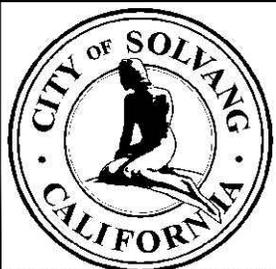
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NOTES:

1. POINT "A" SHALL BE HIGHER THAN POINT "C" BY 2% OF THE DISTANCE BETWEEN "A" AND "C".
2. POINT "B", TOP OF FOOTING WALL OR FINISH FLOOR IF A SLAB, SHALL BE 6" PLUS 2% OF THE DISTANCE BETWEEN "B" AND "C" HIGHER THAN "C".
3. ALL DRAINAGE SHALL BE CONDUCTED TO A STREET OR ESTABLISHED WATERCOURSE.
4. NON-EROSIVE DEVICES ARE REQUIRED WHERE FLOW IS CONCENTRATED OR SLOPE IS STEEP.
5. FINISH GRADE AROUND THE STRUCTURE SHALL SLOPE AWAY FROM THE STRUCTURE FOUNDATION A MINIMUM OF 5% FOR 10' PER CBC SEC. 1803.3.
6. 1.5% SLOPE MAY BE USED WHERE 2% IS NOT REASONABLY ATTAINABLE OR NECESSARY BECAUSE OF TERRAIN OR SOIL CONDITIONS AS DETERMINED BY THE DIRECTOR OF PUBLIC WORKS.



CITY OF SOLVANG - STANDARD DETAILS

STANDARD LOT DRAINAGE

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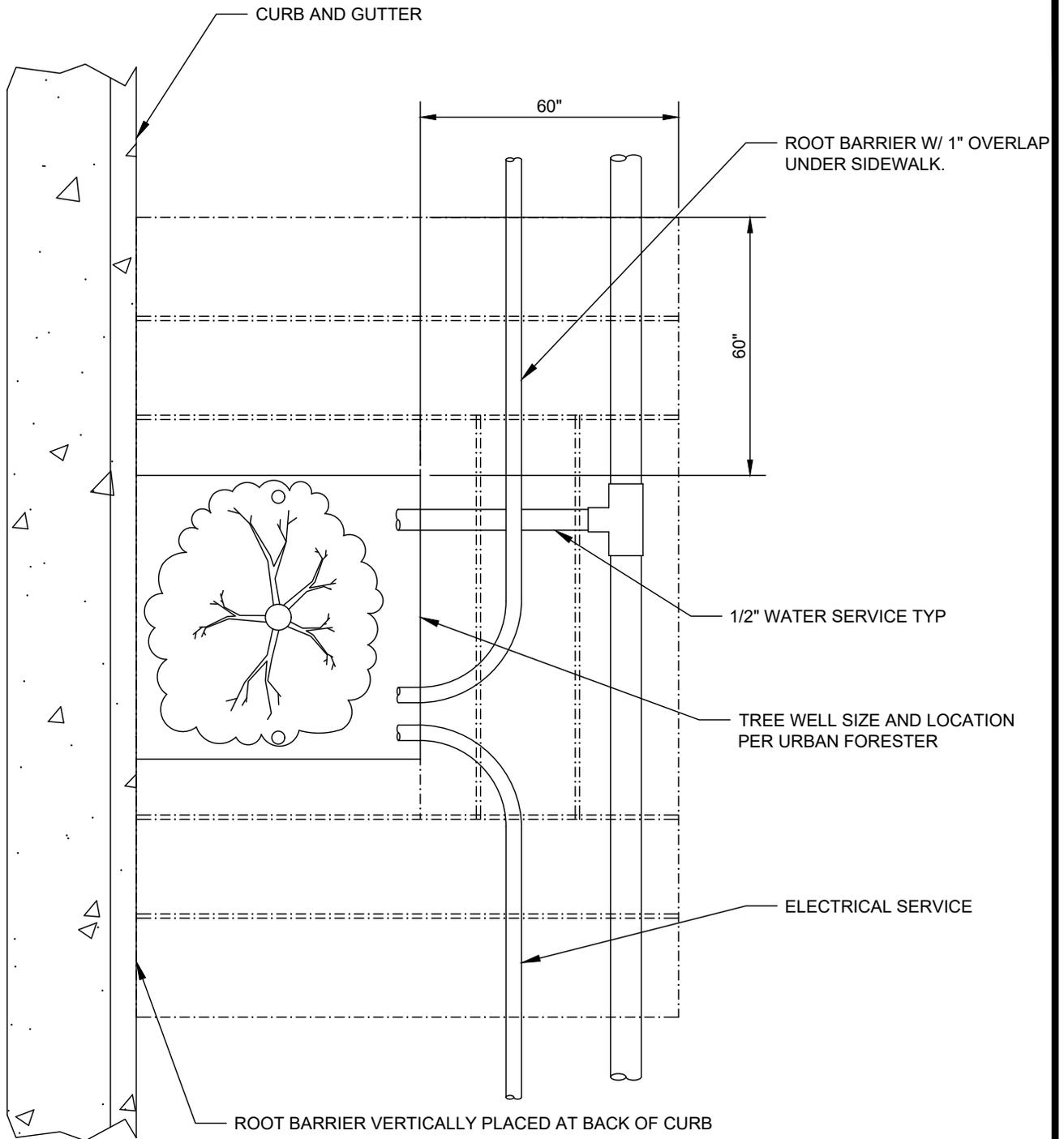
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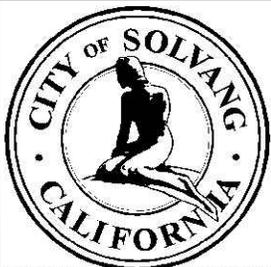
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ROOT BARRIER LAYOUT



CITY OF SOLVANG - STANDARD DETAILS

SIDEWALK TREE PLANTING DETAIL

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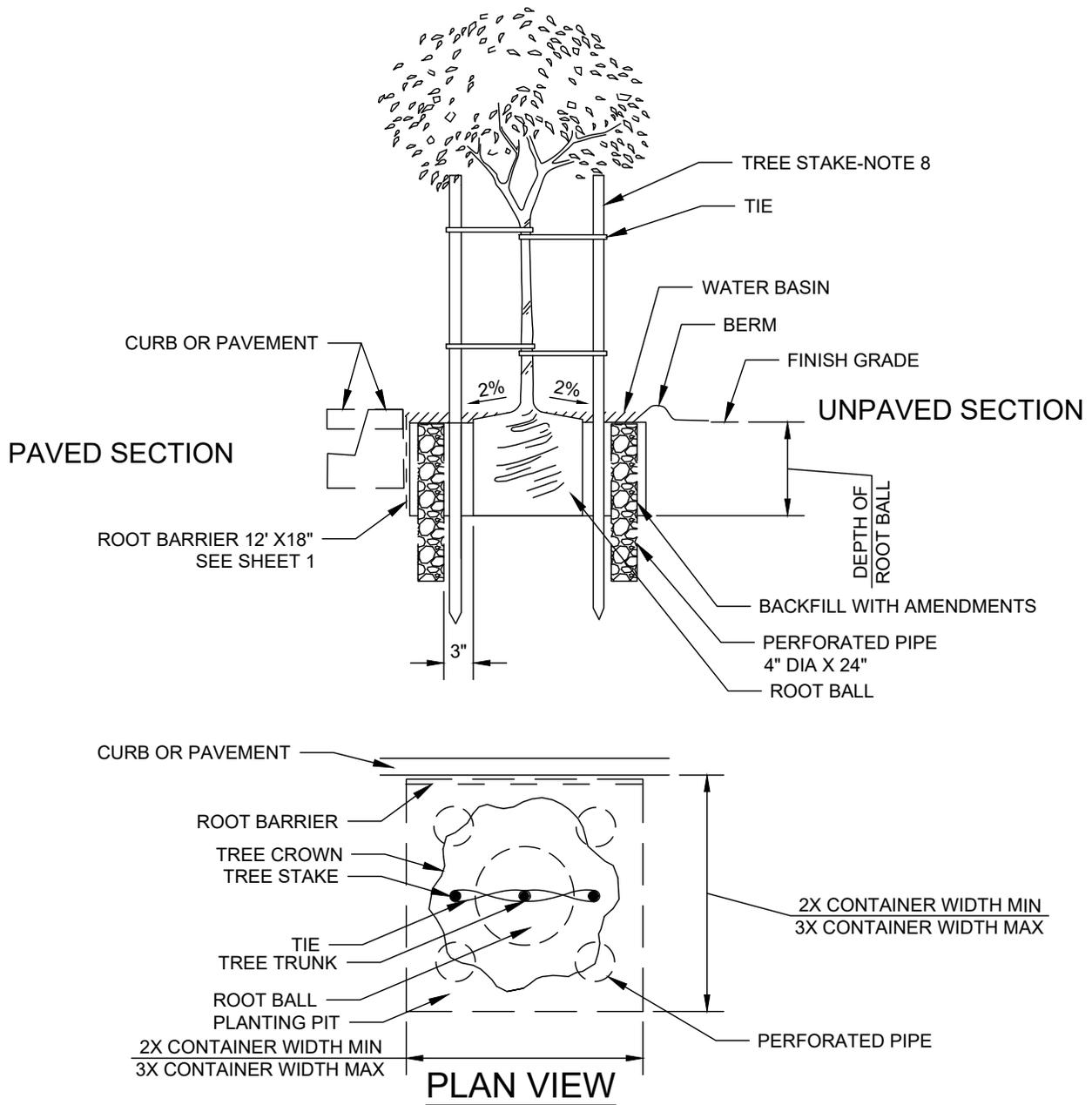
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UNPAVED PARKWAY
15 GAL OR 24" BOX



CITY OF SOLVANG - STANDARD DETAILS

SIDEWALK TREE PLANTING DETAIL

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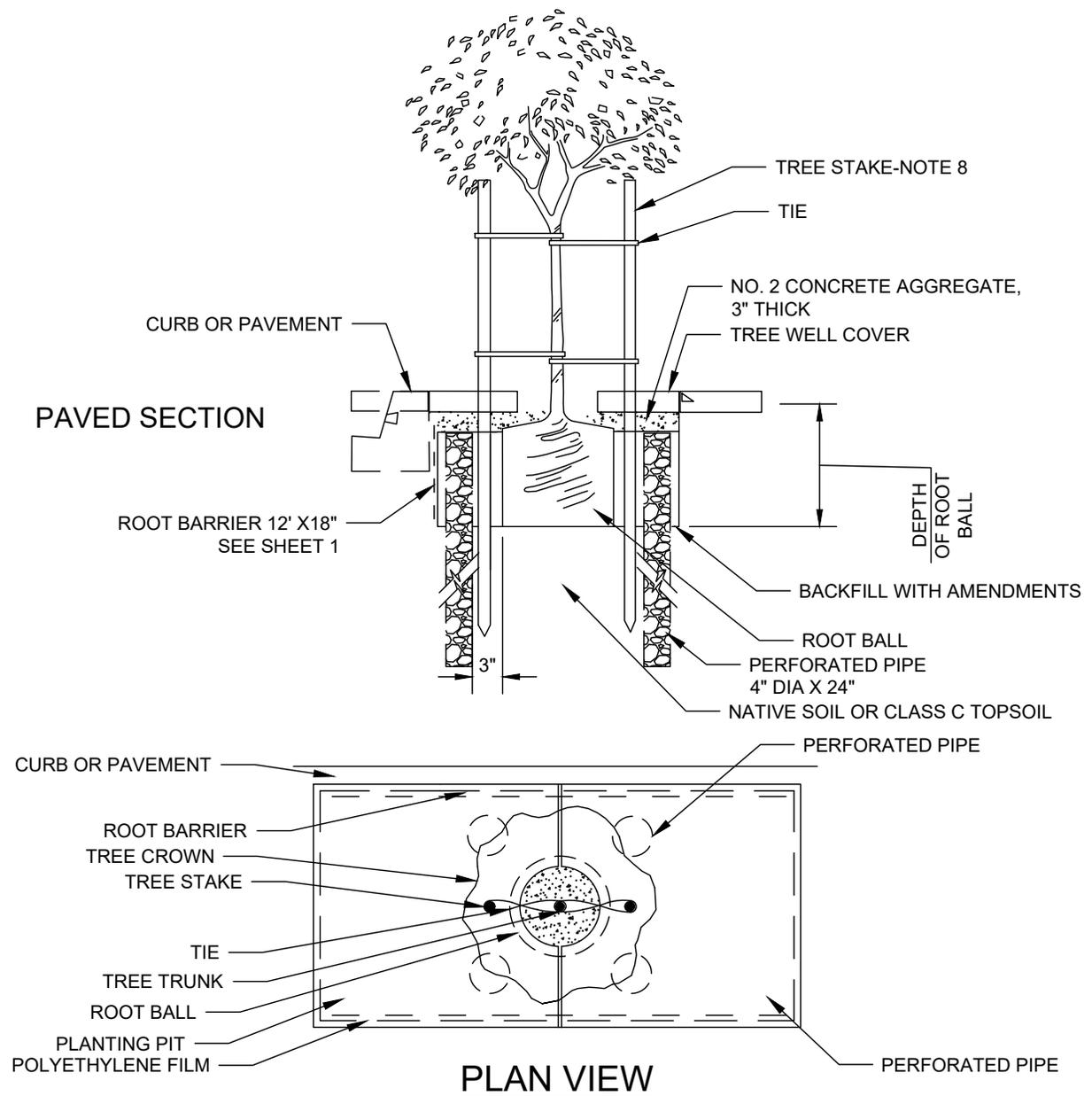
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**SIDEWALK TREE WELL
15 GAL OR 24" BOX**



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SIDEWALK TREE PLANTING DETAIL

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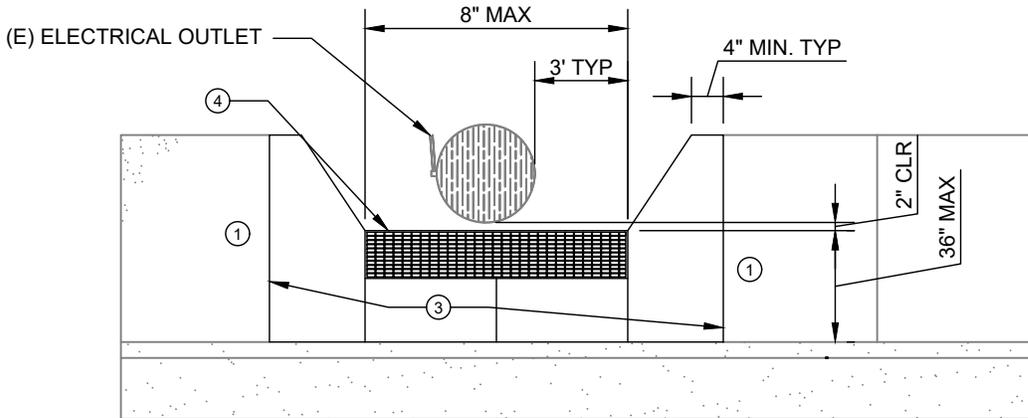
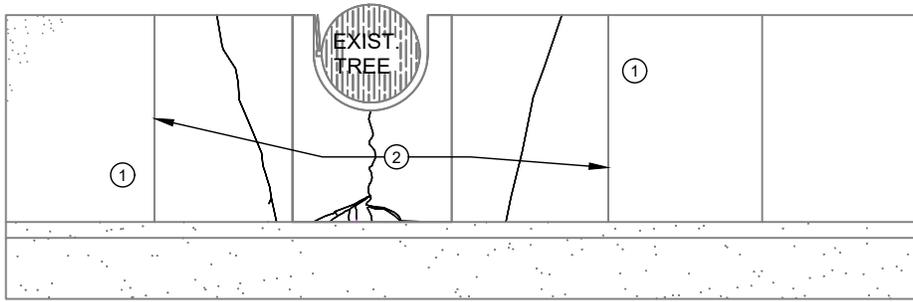
NOTES:

1. SET TOP OF ROOT BALL 1" ABOVE FINISH GRADE.
2. FOR 24" BOX TREES OR SMALLER, INSTALL ROOT BARRIERS IF TRUNK IS WITHIN 5' OF CURB OR WALK. FOR 30" TO 48" BOX TREES, INSTALL ROOT BARRIERS IF TRUNK IS WITHIN 10' OF CURB OR WALK.
3. AMEND BACKFILL MIX PER SPECIFICATIONS. LEAVE TRUNK AND ROOT FLARE VISIBLE.
4. SET PERFORATED PIPE FLUSH WITH TOP OF BACKFILL. FILL PIPE WITH NO. 2 CONCRETE AGGREGATE PER SSPWC TABLE 200-1.4 (B) AND COVER WITH FILTER FABRIC. WRAP FABRIC 6" DOWN SIDES OF PIPE.
5. FORM 3 1/2" HIGH BERM AROUND BACKFILL AS A WATER BASIN.
6. TOP WATER BASIN WITH 3 1/2" OF NO. 2 CONCRETE AGGREGATE OR TYPE 1 MULCH PER THE SPECIAL PROVISIONS. KEEP CONCRETE AGGREGATE OR MULCH 3 1/2" CLEAR OF TRUNK. LEAVE TRUNK AND ROOT FLARE VISIBLE.
7. REMOVE ALL NURSERY STAKES. INSTALL NEW TREE STAKES PER SPPWC 800-1.5.3.
8. FASTEN TREE TO STAKES PER SPPWC 801-4.6, TWO TIES PER STAKE.
9. AFTER PLANTING, PRUNE THE TREE AS APPROVED BY THE ENGINEER.
10. POLYETHYLENE FILM, WHERE SHOWN, SHALL BE 6 MIL THICK. LINE ALL FOUR SIDES OF PLANTING PIT.

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	CITY OF SOLVANG - STANDARD DETAILS		ISSUED: 7/7/2021
			REVISED: ----
SIDEWALK TREE PLANTING DETAIL		DRAWING NUMBER	
APPROVED BY PUBLIC WORKS DIRECTOR: MATT VAN DER LINDEN, PE <i>Matt van der Linden</i>		110 4 OF 4	
		DO NOT SCALE DRAWING	



CONSTRUCTION NOTES:

- ① SAWCUT ALONG CONTROL JOINT.
- ② REMOVE CONCRETE BETWEEN THE SAWCUTS.
- ③ INSTALL 4" CONCRETE SIDEWALK PER STANDARD DETAIL 403.
- ④ IF INDICATED, INSTALL 1' W. CAST IRON GRATE TO MATCH OTHERS IN THE CITY.

NOTES:

- 1. PROTECT EXISTING CURB AND GUTTER IN PLACE.
- 2. CLEAN CUT TREE ROOTS MIN. 3" CLEAR OF BOTTOM OF PROPOSED SIDEWALK AND GRATE.
- 3. PROVIDE SUPPORTS AS NECESSARY TO KEEP GRATE FLUSH WITH ADJACENT SIDEWALK.
- 4. PROTECT IN PLACE EXISTING FIXTURES.

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CITY OF SOLVANG - STANDARD DETAILS

TREEWELL REPAIR DETAIL

APPROVED BY PUBLIC WORKS DIRECTOR:
MATT VAN DER LINDEN, PE *Matt van der Linden*

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ISSUED: 7/7/2021

REVISED: ----

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