

PUMPKIN-FIESTA STORM DRAIN IMPROVEMENT PROJECT

CUPERTINO, CALIFORNIA

PROJECT NO. 2022-01



LOCATION MAP

PROJECT BASIS OF BEARING

THE BASIS OF BEARINGS FOR THIS SURVEY IS GPS DERIVED AND IS ON NADB3(2011) EPOCH 2010.00, CALIFORNIA STATE PLANE ZONE 2. DISTANCES ARE GROUND DISTANCES. MULTIPLY GROUND DISTANCES BY 1.00007/1312 TO 0BTAIN GRID DISTANCES.

PROJECT BENCHMARK

ELEV DATUM:

ELEVATIONS SHOWN ARE IN NORTH AMERICAN VERTICAL DATUM (NAVDRR)



SCALE: 1"= 150"

SHEET INDEX SHEET No. TITLE DRAWING

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3-15-2023

DATE

Benjamin 7. Poter

4/5/2023

MANAGER-ENGINEER

DATE

CA SII

UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

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BKF ENGINEERS 255 SHORELINE DRIVE SUITE 200 REDWOOD CITY, CA 94065 (650) 482-6300 www.bkf.com

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IMPROVEMENT PLANS FOR

PUMPKIN-FIESTA STORM DRAIN PROJECT CITY OF CUPERTINO, SANTA CLARA COUNTY, CALIFORNIA

TITLE SHEET

FOR CITY OF CUPERTINO USE PROJECT # 2022-01	CITY OF CUPERTINO
PUBLIC WORKS INSPECTOR:	CO.0
VOICE MAIL:	SHEET 1 OF 15

- APPROVAL OF THESE PLANS SHALL NOT RELEASE THE CONTRACTOR OF THE RESPONSIBILITY FOR CORRECTIONS OF MISTAKES, ERRORS, OR OMISSIONS CONTAINED THEREIN. IF DURING THE COURSE OF CONSTRUCTION OF IMPROVEMENTS, PUBLIC INTEREST REQUIRES A MODIFICATION OF/OR A DEPARTURE FROM THE CITY OF CUPERTINO STANDARD DETAILS OR THESE IMPROVEMENTS PLANS, THE CITY ENGINEER SHALL HAVE THE AUTHORITY TO REQUIRE SUCH MODIFICATION OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH THE SAME IS TO BE COMPLETED, AT THE SOLE EXPENSE OF THE CONTRACTOR.
- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE APPROVED PLANS OR THE LATEST REVISED PLANS ARE FURNISHED TO ITS SUBCONTRACTORS, AND TO ENSURE THE LATEST APPROVED PLANS ARE ONSITE AT ALL TIMES DURING CONSTRUCTION.
- 4. THE CONTRACTOR SHALL NOTIFY THE CITY TWO (2) WORKING DAYS PRIOR TO REQUIRING AN INSPECTION.
- CONSTRUCTION AREA TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO BEGINNING OF WORK.
- THE CONTRACTOR SHALL LOCATE UNDERGROUND FACILITIES IN THE AREA OF WORK. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 811 TWO (2) WORKING DAYS IN ADVANCE OF ANY WORK FOR LOCATION OF THE UNDERGROUND FACILITIES.
- STORM DRAIN LINES INSTALLED AS PART OF THE WORK ON THESE PLANS SHALL BE CLEARED OF ALL DEBRIS AND OBSTRUCTIONS PRIOR TO FINAL ACCEPTANCE.
- ALL TRENCH BACKFILL, FILL AREAS, AND BASE MATERIAL SHALL ATTAIN A MINIMUM 95% RELATIVE COMPACTION. FOR TYPICAL TRENCH SECTIONS, EXCEPT FOR SANITARY SEWERS, REFER TO THE CITY STANDARD DETAIL 4-24 ON SHEET C3.0.
- TREES, ROOTS, AND FOREIGN MATTER IN EXISTING OR PROPOSED RIGHT-OF-WAY SHALL BE REMOVED TO A DEPTH OF TWO (2) FEET BELOW SUBGRADE AND DISPOSED OF PER CALTRANS STANDARDS. IN THE CASE OF LIVE TREE ROOTS FROM CITY STREET TREES, CONTRACTOR SHALL CONTACT THE CITY FOR FIELD OBSERVATION PRIOR TO REMOVING TREE ROOTS.
- 10. TRENCH PLATES IN THE TRAVELED WAY SHALL BE TRAFFIC RATED AND PROPERTY SECURED.
- 11. ALL NEW PAVEMENT SHALL MATCH THE EXISTING PAVEMENT SECTION. A MINIMUM PAVEMENT SECTION OF 3" AC/ 6" CLASS 2 AB IS REQUIRED.
- 12. EXISTING PAVEMENT THAT IS REMOVED OR DAMAGED SHALL BE REPLACED AS REQUIRED BY THE CITY ENGINEER.
- 13. MANHOLE FRAMES AND COVERS SHALL BE BROUGHT TO FINISH GRADE PRIOR TO FINAL SIGNOFF.
- 14. CONCRETE FOR USE IN ALL CONCRETE STRUCTURES SHALL CONFORM TO CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 90 UNLESS NOTED OTHERWISE ON PROJECT STRUCTURAL PLANS. DROP INLETS, SIDEWALKS, CURBS AND GUTTERS SHALL CONTAIN 590 LBS. OF CEMENT PER CUBIC YARD AND SHALL ATTAIN A MINIMUM STRENGTH OF 3,000 PSI IN 28 DAYS.
- 15. DROP INLETS SHALL BE CONSTRUCTED CONFORMING TO CITY STANDARD DETAILS UNLESS OTHERWISE NOTED ON THE PLANS. DROP INLETS SHALL BE INSTALLED CONCURRENT WITH THE CONSTRUCTION OF THE CURB AND GUTTER "NO DUMPING FLOWS TO THE BAY." PLAQUE SHALL BE INSTALLED ON THE CURB ADJACENT TO ALL INLETS.
- 16. ONE POUND OF DISPERSING BLACK SHALL BE MIXED WITH EACH CUBIC YARD OF CONCRETE AT THE BATCH PLANT.
- 17. NEW CITY STANDARD STREET MONUMENTS AND OTHER PERMANENT MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BEFORE ACCEPTANCE OF THE IMPROVEMENTS BY THE CITY ENGINEER. ATTENTION IS DIRECTED TO SECTION 8771 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE FOR THE REQUIREMENTS CONCERNING SURVEY MONUMENTS. EXISTING SURVEY MONUMENTS SHALL BE LOCATED AND REFERENCED BY OR UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER PRIOR TO CONSTRUCTION OPERATIONS, AND A CORNER RECORD OR RECORD OF SURVEY SHALL BE FILED WITH THE COUNTY SURVEYOR OF THE COUNTY OF SANTA CLARA. EXISTING SURVEY MONUMENTS SHALL BE RESET TO FINISH GRADE, AND A CORNER RECORD OR RECORD OF SURVEY SHALL BE FILED WITH THE COUNTY SURVEYOR OF THE COUNTY OF SANTA CLARA PRIOR TO THE RECORDING OF THE CERTIFICATE OF COMPLETION FOR THE PROJECT.
- 18. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL AND ENSURING THE AREA ADJACENT TO THE WORK IS LEFT IN A CLEAN CONDITION.
- 19. CONTRACTOR SHALL REVIEW CITY DETAIL 6-4 ON TREE PROTECTION PRIOR TO ACCOMPLISHING ANY WORK OR REMOVING ANY TREES.
- 20. UTILIZE BEST MANAGEMENT PRACTICES (BMP'S), AS REQUIRED BY THE STATE WATER RESOURCES CONTROL BOARD, FOR ANY ACTIVITY, WHICH DISTURBS THE SOIL.
- 21. CUPERTINO SANITARY DISTRICT INSPECTORS SHALL BE NOTIFIED 48 HOURS PRIOR TO WORK ON AND NEAR DISTRICT ASSETS AT

UNDERGROUND CONSTRUCTION NOTES

- MATERIALS FOR PIPE, MANHOLES AND CLEANOUTS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE DISTRICT'S STANDARD SPECIFICATIONS AND THESE PLANS AND DETAILS SHOWN HEREON.
- ALL TRENCH EXCAVATION AND BACKFILL FOR SEWER LINES SHALL CONFORM TO THE REQUIREMENTS OF CITY OF CUPERTINO STANDARD SPECIFICATIONS. JETTING OF BACKFILL MATERIALS TO ACHIEVE COMPACTION IS NOT ALLOWED.
- ALL EARTHWORK SHALL BE COMPLETED IN ACCORDANCE WITH REQUIREMENTS OUTLINED IN THE "GEOTECHNICAL RECOMMENDATIONS REPORT PUMPKIN FIESTA PHASE 1 STORM DRAIN CUPERTINO, CALIFORNIA" BY HALEY ALDRITCH DATED MAY
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND PERFORMANCE OF ALL SHORING AND BRACING IN ACCORDANCE WITH CALIFORNIA OSHA REQUIREMENTS.

<u>LEGEND</u>	<u>PROPOSED</u>	EXISTING
PROPERTY LINE		
STORM DRAIN LINE		
STORM DRAIN LATERAL		——————————————————————————————————————
STORM DRAIN MANHOLE		
SANITARY SEWER LINE		ss ss
SANITARY SEWER MANHOLE		SS
WATER LINE		— w — w — w —
GAS LINE		——— GAS ————
OVERHEAD LINE		—— ОН ——— ОН ———
DEMOLITION LINE	///////////////////////////////////////	
MINOR CONTOUR LINE		94
MAJOR CONTOUR LINE		95
FENCE LINE		xxx
CAST-IN-PLACE CLOSURE PIECE		
JUNCTION/ TRANSITION STRUCTURI	E	
POTHOLE LOCATION	-	

ABBREVIATIONS

A D	A CODECATE DAGE
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
AD	AREA DRAIN
BW	BACK OF WALK
CIP	CAST IN PLACE
CITY	CITY OF CUPERTINO
CFS	CUBIC FEET PER SECOND
CL	CENTERLINE
CLF	CHAIN-LINK FENCE
CONC	CONCRETE
CO	CLEAN OUT
DIP	DUCTILE IRON PIPE
(E), EX	EXISTING
EG	EXISTING GRADE
EL	ELEVATION
EP	EDGE OF PAVEMENT
EST	ESTIMATED
FC	FACE OF CURB
FG	FINISHED GRADE
FL	FLOWLINE
FKCL	FIBERGLASS-KRAFT WRAPPEDCEMENT LINED
FS	FINISHED SURFACE
FT	FEET
G	GAS
ID	INSIDE DIAMETER
INV	INVERT/ INLET ELEVATION
LAT	LATERAL
	— · · · — · · · —
LF	LINEAR FEET
LT	LEFT
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PH	POTHOLE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RIM	ELEVATION OF RIM
R0W	RIGHT OF WAY
RT	RIGHT
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SPECS	SPECIFICATIONS
STA	STATION
STD	STANDARD
TYP	TYPICAL
W	WATER
LITH	LITH ITV

UTILITY CROSSING

PAVING NOTES

- 1. ALL PAVING SHALL CONFORM TO CITY OF CUPERTINO STANDARD DETAILS.
- 2. AGGREGATE BASE SHALL CONFORM TO CLASS 2, 1-1/2" MAXIMUM PER SECTION 26 OF THE STATE STANDARD SPECIFICATIONS. UNLESS OTHERWISE NOTED AND SHOULD ALSO BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95% BASED ON ASTM TEST PROCEDURE D-1557-78, AND CONFORM TO CITY OF CUPERTINO STANDARDS.
- ASPHALT TO CONFORM TO SECTION 39 "ASPHALT CONCRETE" OF STATE STANDARD SPECIFICATIONS; TYPE B WITH 1/2" MAXIMUM, MEDIUM GRADATION, UNLESS OTHERWISE NOTED.
- 4. PORTLAND CEMENT CONCRETE SHALL CONFORM TO CLASS A, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
- FLAT CONCRETE WORK WITHIN THE PUBLIC RIGHT OF WAY SHALL CONFORM TO THE CITY OF CUPERTINO STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT ORDER OR PLACE ANY PORTLAND CEMENT CONCRETE OR ASPHALT CONCRETE PAVING UNTIL THE FORMS AND SUBGRADE AND/OR AGGREGATE BASE HAVE BEEN INSPECTED BY THE CITY/DISTRICT INSPECTOR AS APPROVED BY THE ENGINEER IN CHARGE OF CONSTRUCTION.
- EDGE OF EXISTING PAVEMENT SHALL BE TACK COATED PRIOR TO CONSTRUCTION OF NEW PAVEMENT.
- ALL EXISTING FACILITIES SHALL BE ADJUSTED TO FINISH GRADE AS DIRECTED BY CITY/DISTRICT INSPECTOR. MANHOLES, WATER VALVE BOXES, CLEAN OUT FRAMES AND COVERS SHALL BE BROUGHT TO FINISHED GRADE BY THE CONTRACTOR AFTER PAVING IS COMPLETED.
- IF ANY PORTION OF EXISTING SIDEWALK AND/OR CURB & GUTTER ARE TO BE REMOVED, CONTRACTOR SHALL REPLACE IN ACCORDANCE TO CITY OF CUPERTINO STANDARD DETAILS & SPECIFICATIONS.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CON SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OI

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BKF ENGINEERS 255 SHORELINE DRIVE SUITE 200 REDWOOD CITY, CA 94065 (650) 482-6300 www.bkf.com

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IMPROVEMENT PLANS FOR PUMPKIN-FIESTA STORM DRAIN PROJECT

GENERAL NOTES

CITY OF CUPERTINO, SANTA CLARA COUNTY, CALIFORNIA

CITY OF	FOR CITY OF CUPERTINO USE
CUPERTIN	PROJECT # 2022-01

VOICE MAIL:

REMOVE EXISTING

STORM DRAIN

NOTES

- CONTRACTOR SHALL POTHOLE TO EXPOSE AND VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PERCEIVED TO BE IN CONFLICT. THE POTHOLE LOCATIONS SHOWN ON THIS SHEET ARE THE MINIMUM REQUIRED AND ADDITIONAL POTHOLES MAY BE NEEDED.
- 2. CONTRACTOR SHALL POTHOLE LOCATIONS SHOWN PRIOR TO EXCAVATION AND PROCURING MATERIALS.

	POTHOLE TABULATION TABLE								
NO.	DESCRIPTION	GROUND ELEV.	DEPTH						
1	8" WATER MAIN	324.20	TBD						
2	2" GAS MAIN	324.00	TBD						
3	8" WATER MAIN	321.87	TBD						
4	1" WATER SERVICE	319.47	TBD						
5	2" GAS MAIN	318.57	TBD						
6	8" WATER MAIN	318.60	TBD						
7	8" WATER MAIN	319.44	TBD						
8	8" WATER MAIN	317.52	TBD						
9	1" WATER SERVICE	314.10	TBD						
(10)	8" WATER MAIN	311.89	TBD						



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BKF ENGINEERS
255 SHORELINE DRIVE
SUITE 200
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IMPROVEMENT PLANS FOR

PUMPKIN-FIESTA STORM DRAIN PROJECT

CITY OF CUPERTINO, SANTA CLARA COUNTY, CALIFORNIA

DEMOLITION PLAN / POTHOLE PLAN voice MAIL:

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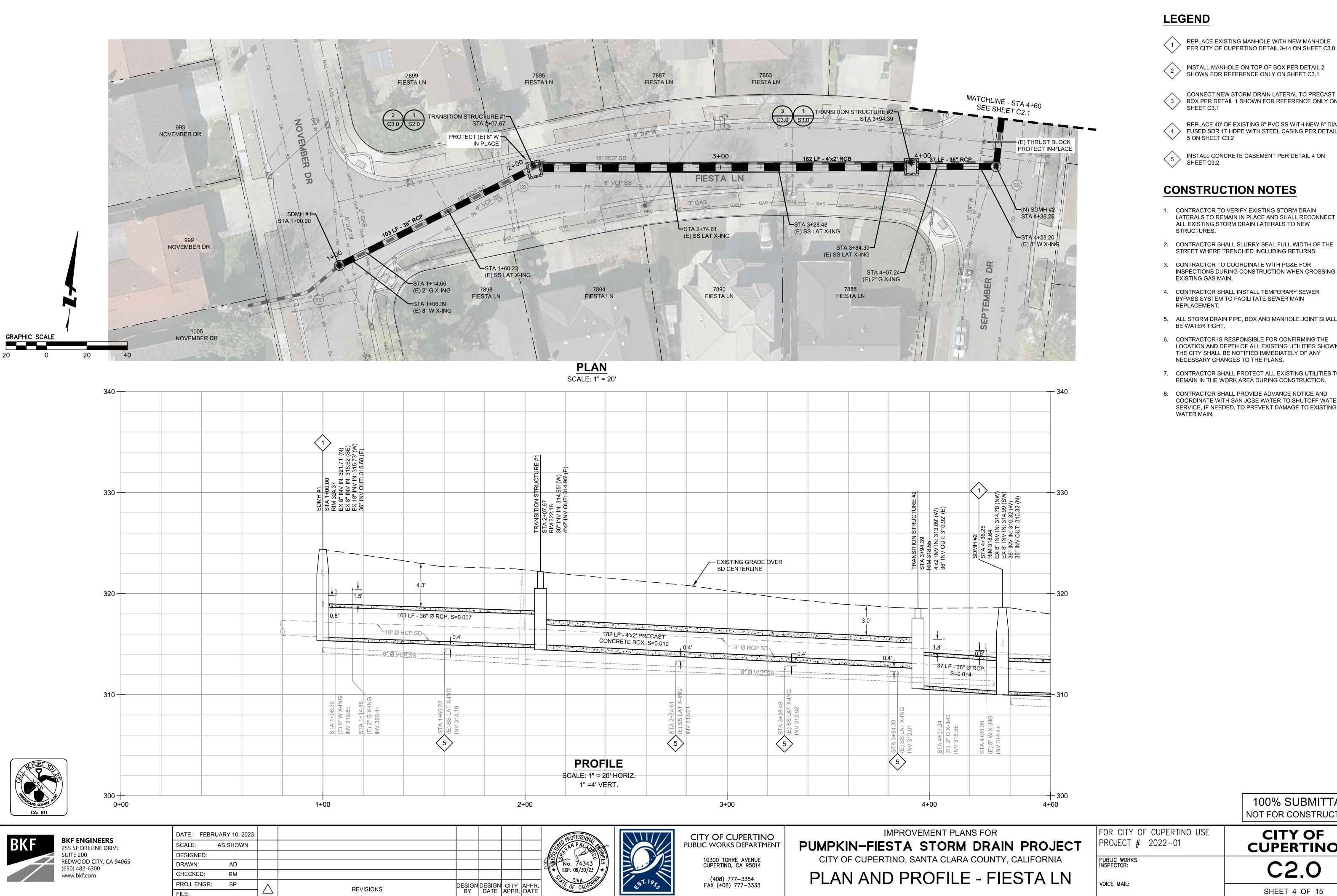
FOR CITY OF CUPERTINO USE PROJECT # 2022-01

CITY OF CUPERTINO

CUPERTINO

C1.0

SHEET 3 OF 15



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FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS FITINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE MANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORT THE OWNER OR THE ENGINEER.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONSHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF

REPLACE EXISTING MANHOLE WITH NEW MANHOLE

INSTALL MANHOLE ON TOP OF BOX PER DETAIL 2

CONNECT NEW STORM DRAIN LATERAL TO PRECAST BOX PER DETAIL 1 SHOWN FOR REFERENCE ONLY ON

REPLACE 40' OF EXISTING 8" PVC SS WITH NEW 8" DIA \langle 4 angle FUSED SDR 17 HDPE WITH STEEL CASING PER DETAIL

INSTALL CONCRETE CASEMENT PER DETAIL 4 ON

CONSTRUCTION NOTES

- 1. CONTRACTOR TO VERIFY EXISTING STORM DRAIN LATERALS TO REMAIN IN PLACE AND SHALL RECONNECT ALL EXISTING STORM DRAIN LATERALS TO NEW
- 2. CONTRACTOR SHALL SLURRY SEAL FULL WIDTH OF THE STREET WHERE TRENCHED INCLUDING RETURNS.
- 3. CONTRACTOR TO COORDINATE WITH PG&E FOR INSPECTIONS DURING CONSTRUCTION WHEN CROSSING
- 4. CONTRACTOR SHALL INSTALL TEMPORARY SEWER BYPASS SYSTEM TO FACILITATE SEWER MAIN
- 5. ALL STORM DRAIN PIPE, BOX AND MANHOLE JOINT SHALL
- 6. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES SHOWN. THE CITY SHALL BE NOTIFIED IMMEDIATELY OF ANY NECESSARY CHANGES TO THE PLANS.
- 7. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES TO REMAIN IN THE WORK AREA DURING CONSTRUCTION.
- 8. CONTRACTOR SHALL PROVIDE ADVANCE NOTICE AND COORDINATE WITH SAN JOSE WATER TO SHUTOFF WATER SERVICE, IF NEEDED, TO PREVENT DAMAGE TO EXISTING

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CITY OF CUPERTINO

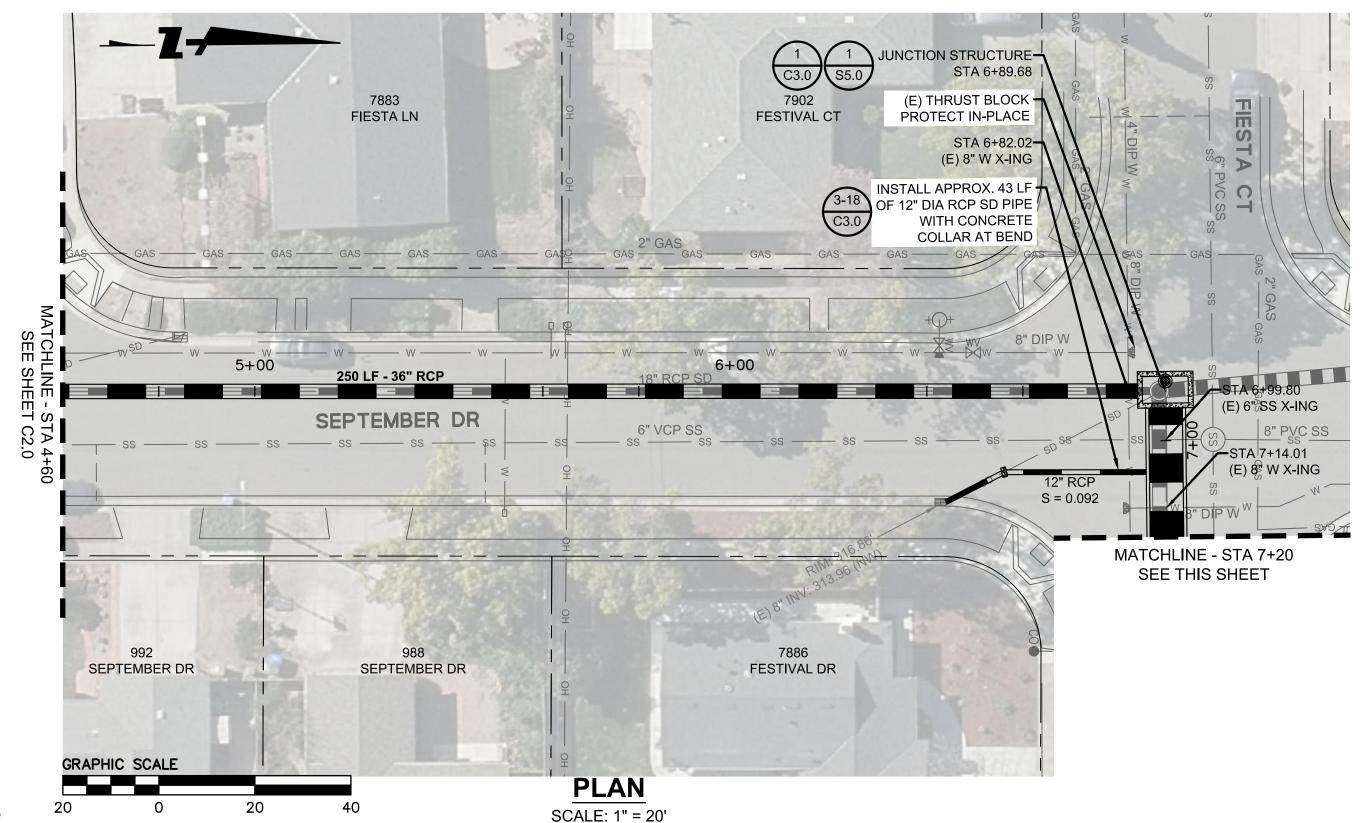
C2.0 SHEET 4 OF 15 CONNECT NEW STORM DRAIN LATERAL TO PRECAST BOX PER DETAIL 1 SHOWN FOR REFERENCE ONLY ON SHEET C3.1

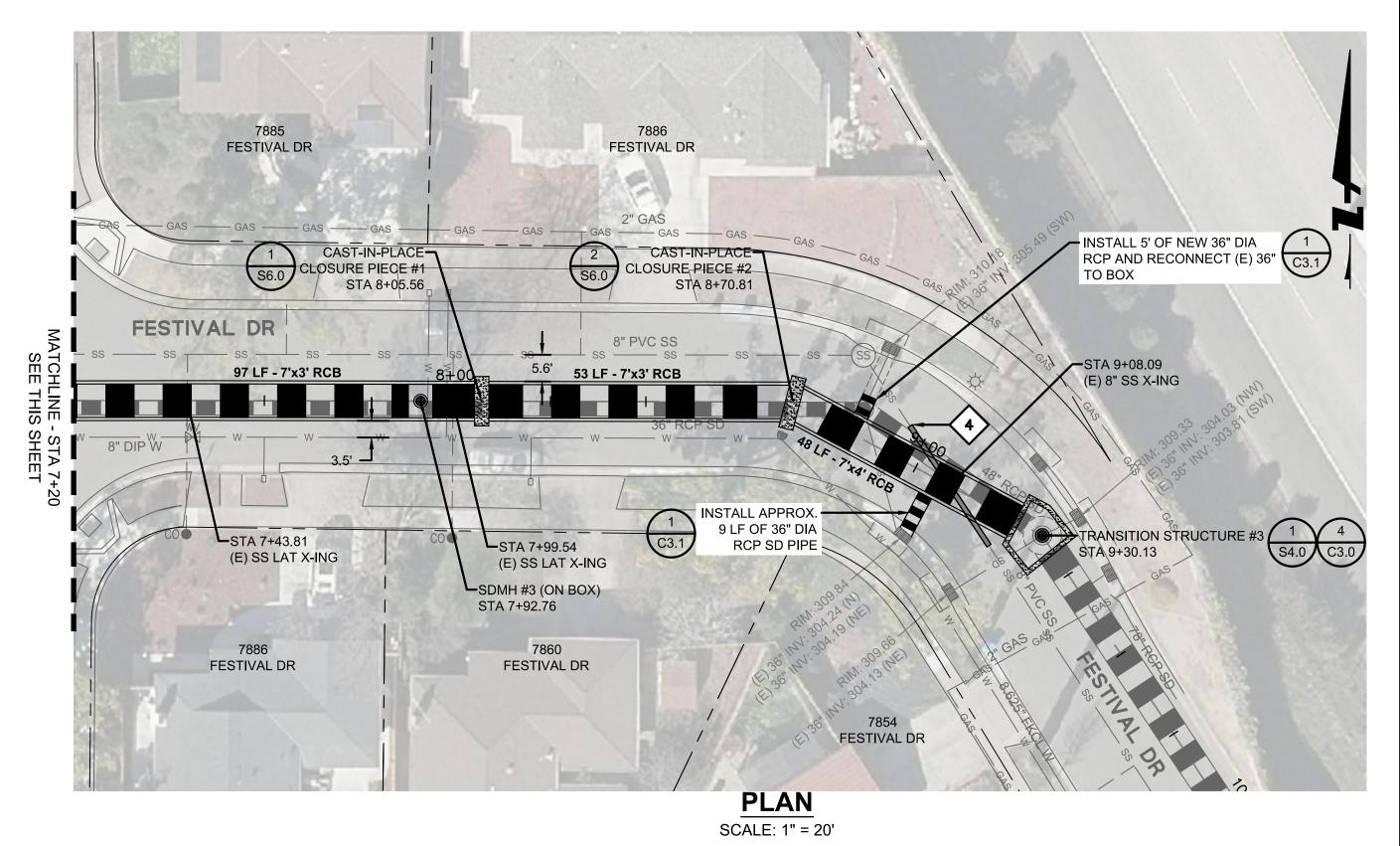
REPLACE 40' OF EXISTING 8" PVC SS WITH NEW 8" DIA FUSED SDR 17 HDPE WITH STEEL CASING PER DETAIL 5 ON SHEET C3.2

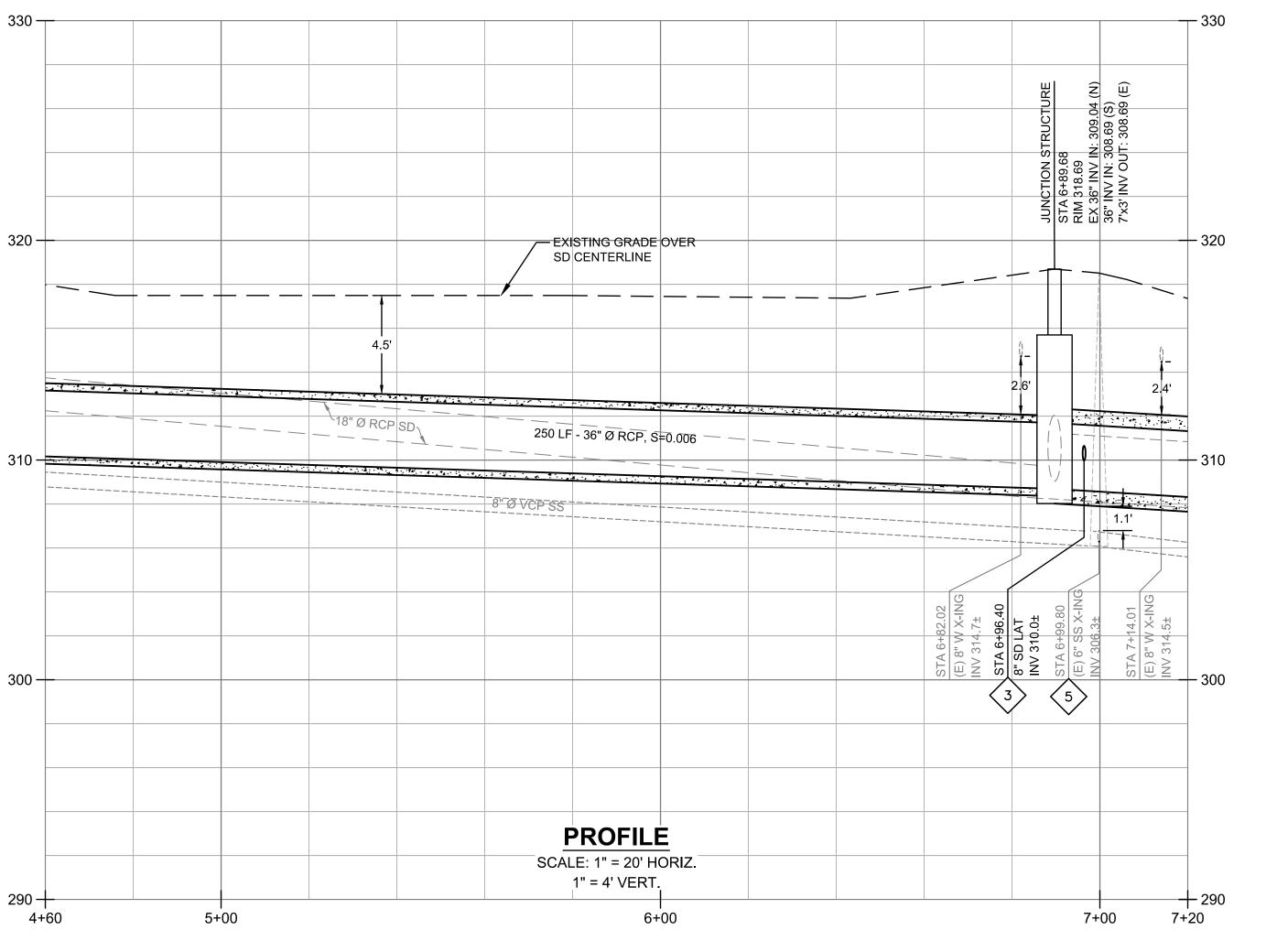
5 INSTALL CONCRETE CASEMENT PER DETAIL 4 ON SHEET C3.2

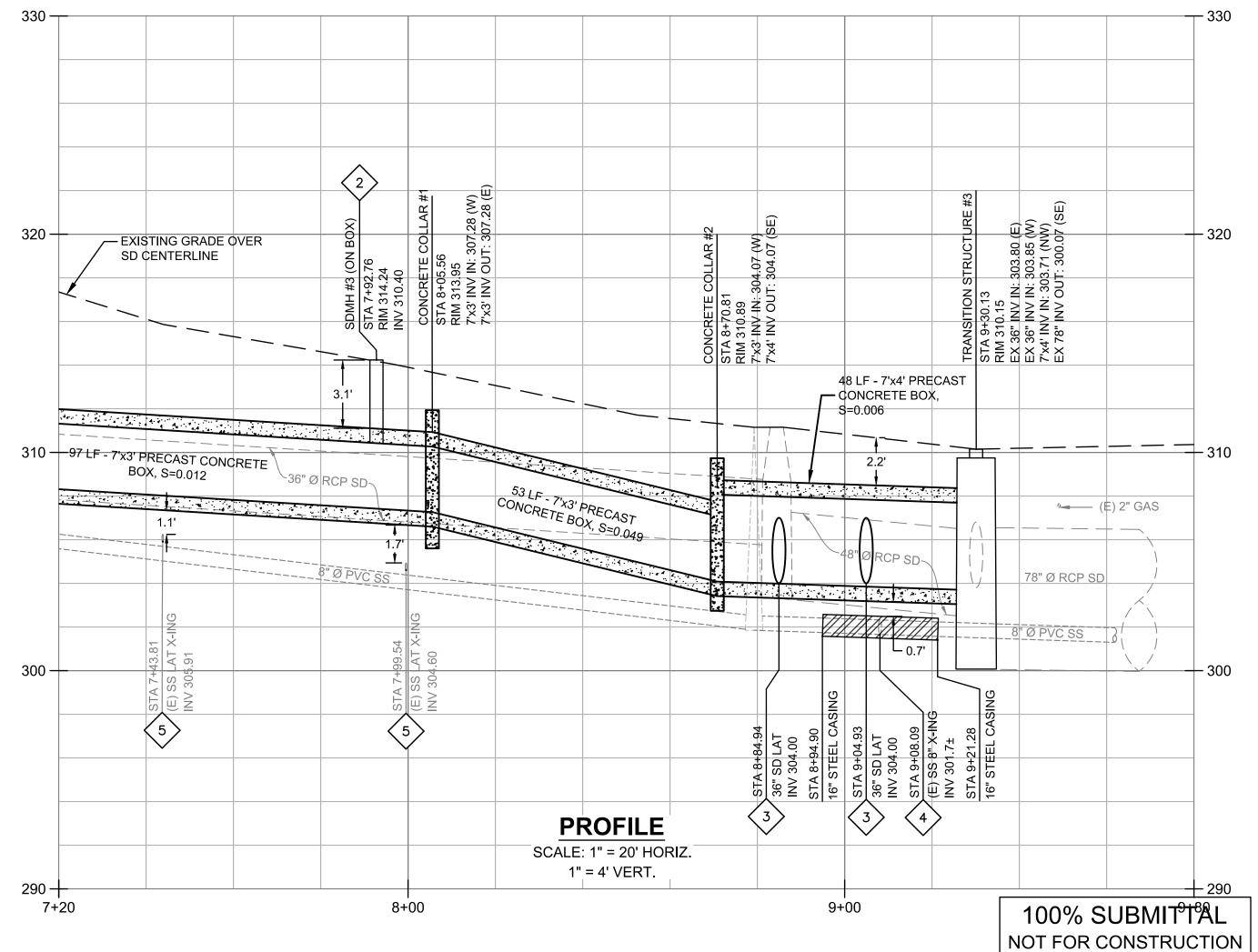
CONSTRUCTION NOTES

- 1. CONTRACTOR TO VERIFY EXISTING STORM DRAIN LATERALS TO REMAIN IN PLACE AND SHALL RECONNECT ALL EXISTING STORM DRAIN LATERALS TO NEW STRUCTURES.
- 2. CONTRACTOR SHALL SLURRY SEAL FULL WIDTH OF THE STREET WHERE TRENCHED INCLUDING RETURNS.
- 3. CONTRACTOR TO COORDINATE WITH PG&E FOR INSPECTIONS DURING CONSTRUCTION WHEN CROSSING EXISTING GAS MAIN.
- 4. CONTRACTOR SHALL INSTALL TEMPORARY SEWER BYPASS SYSTEM TO FACILITATE SEWER MAIN REPLACEMENT.
- 5. ALL STORM DRAIN PIPE, BOX AND MANHOLE JOINT SHALL BE WATER TIGHT.
- 6. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES SHOWN. THE CITY SHALL BE NOTIFIED IMMEDIATELY OF ANY NECESSARY CHANGES TO THE PLANS.
- 7. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES TO REMAIN IN THE WORK AREA DURING CONSTRUCTION.
- . CONTRACTOR SHALL PROVIDE ADVANCE NOTICE AND COORDINATE WITH SAN JOSE WATER TO SHUTOFF WATER SERVICE, IF NEEDED, TO PREVENT DAMAGE TO EXISTING WATER MAIN.











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CITY OF CUPERTINO
PUBLIC WORKS DEPARTMENT

10300 TORRE AVENUE
CUPERTINO, CA 95014

(408) 777-3354
FAX (408) 777-3333

PUMPKIN-FIESTA STORM DRAIN PROJECT
CITY OF CUPERTINO, SANTA CLARA COUNTY, CALIFORNIA
PLAN AND PROFILE SEPTEMBER DR / FESTIVAL DR

FOR CITY OF CUPERTINO USE
PROJECT # 2022-01

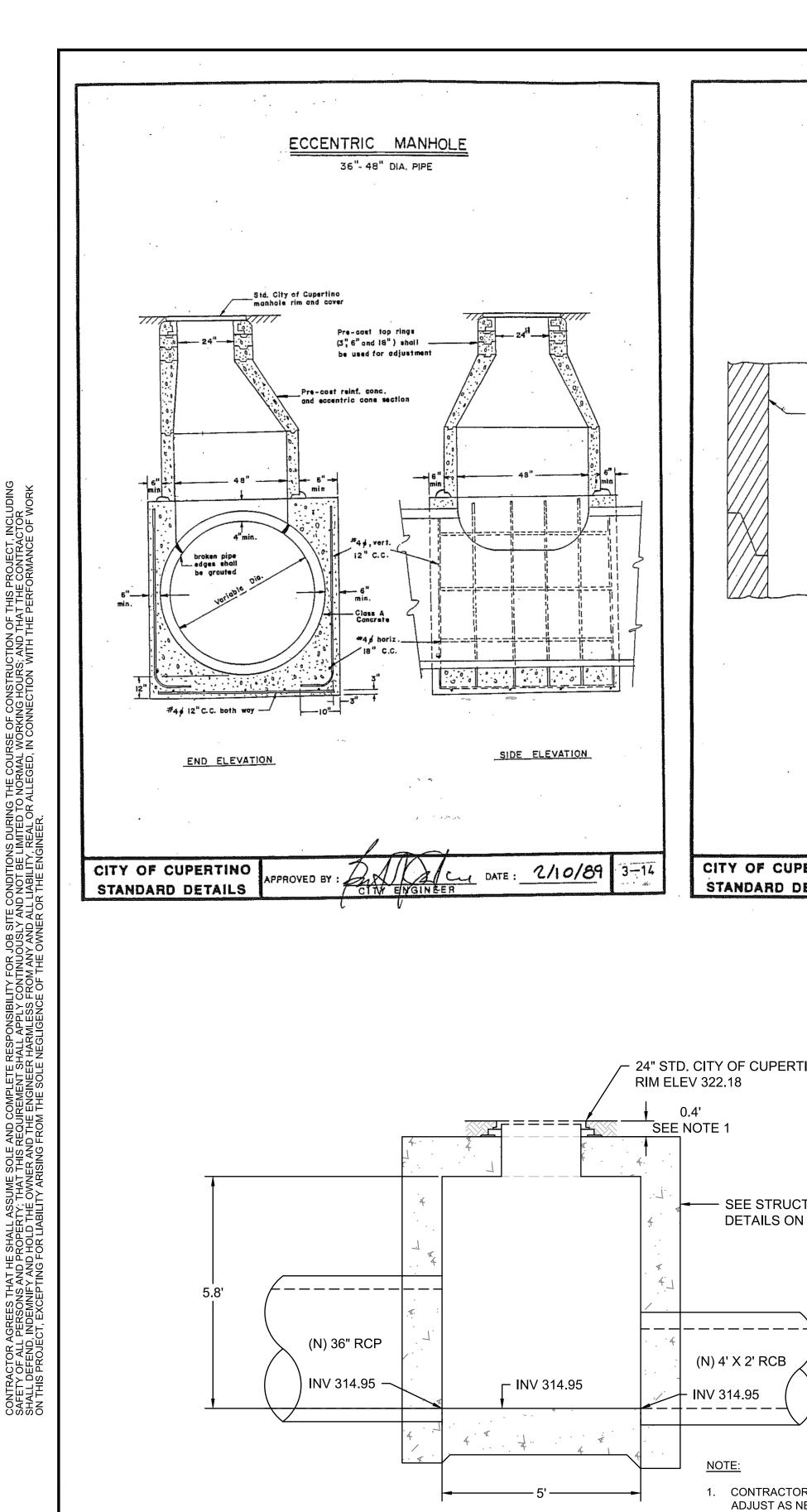
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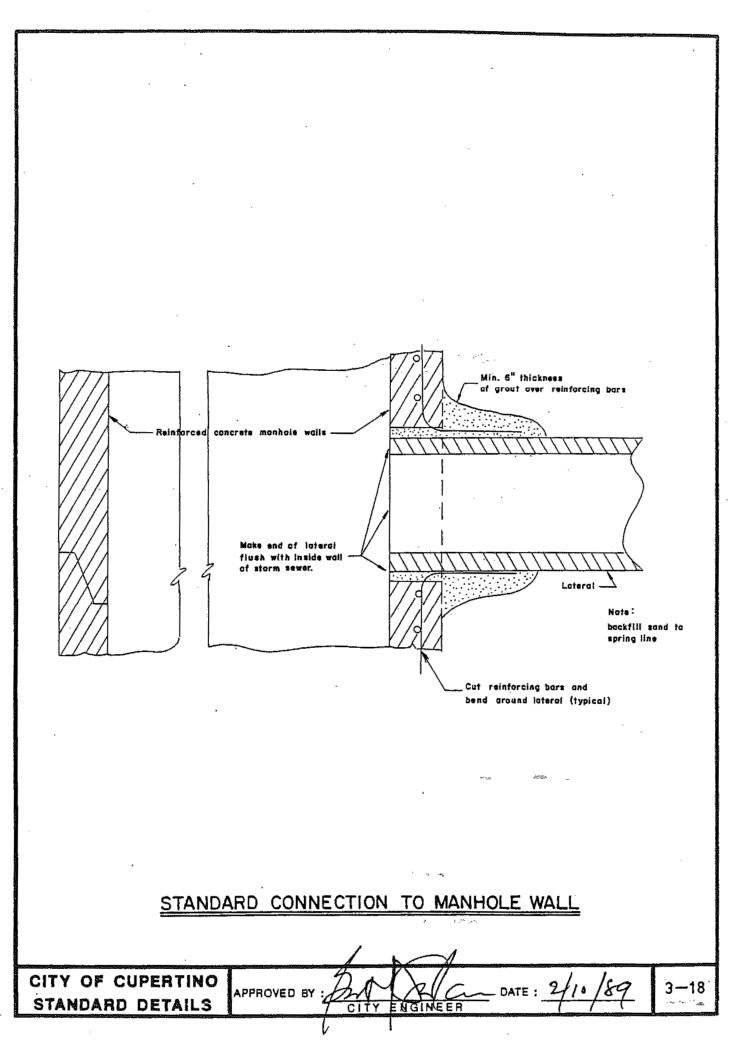
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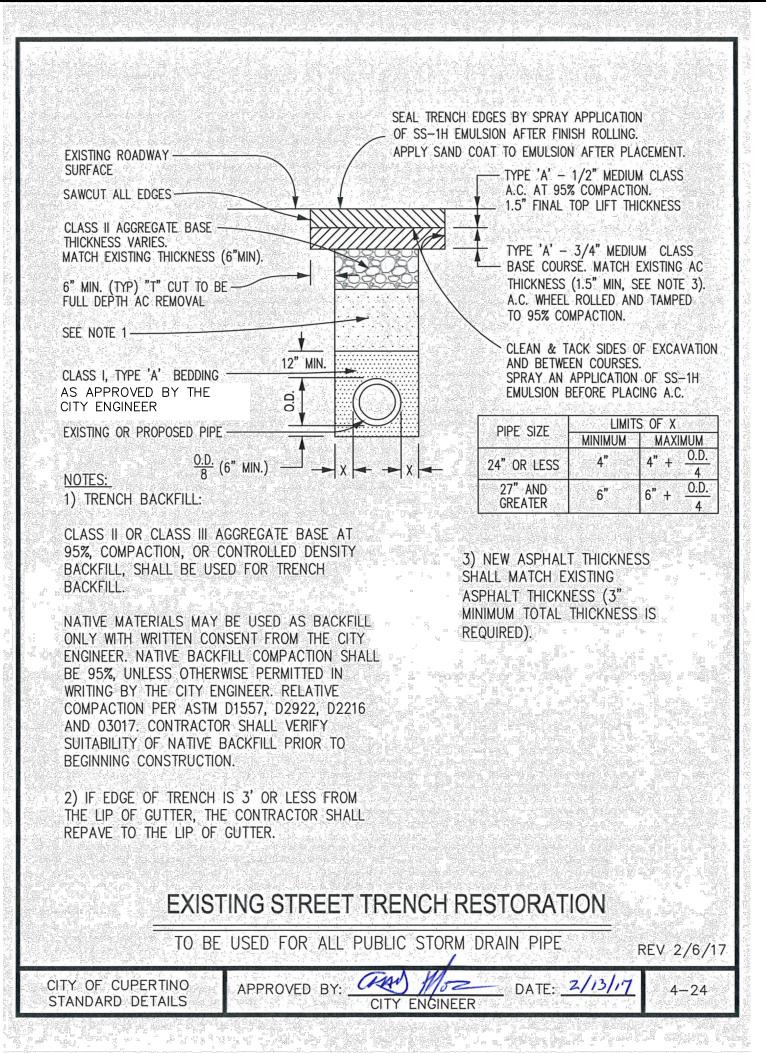
CITY OF CUPERTINO

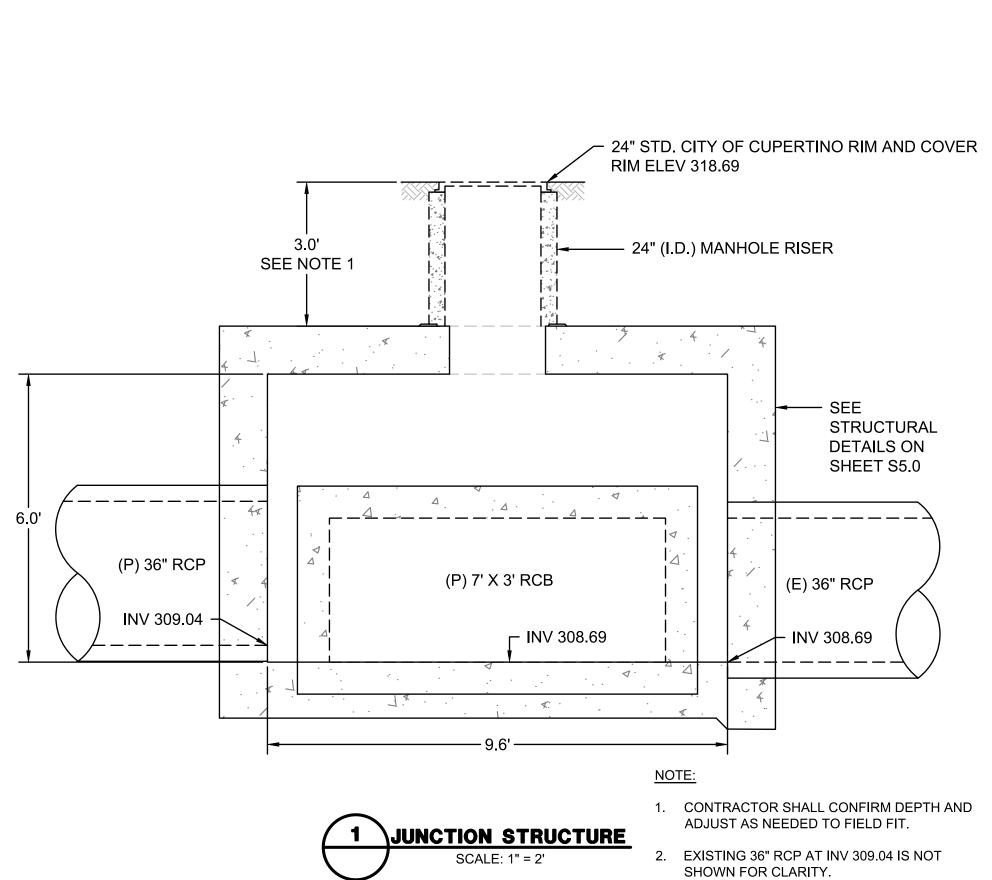
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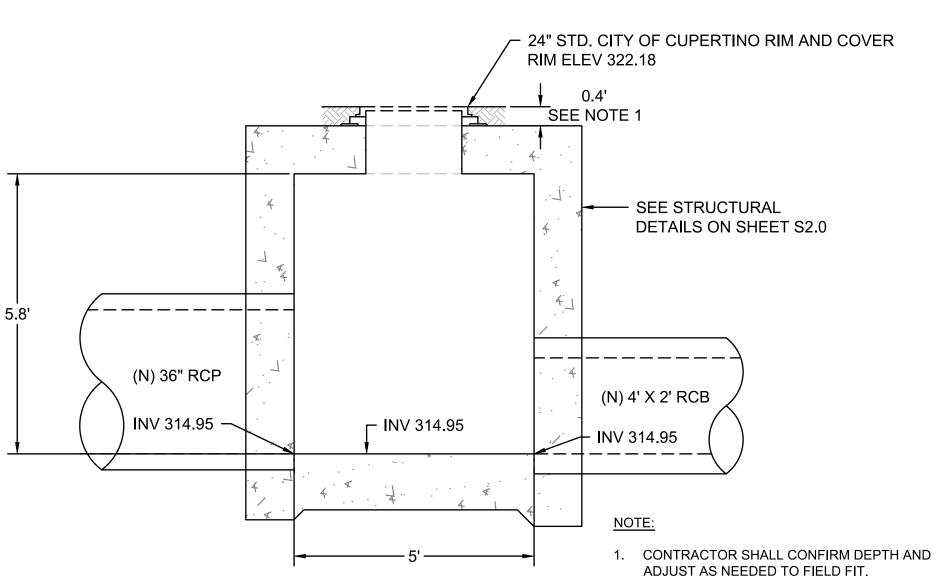
SHEET 5 OF 15

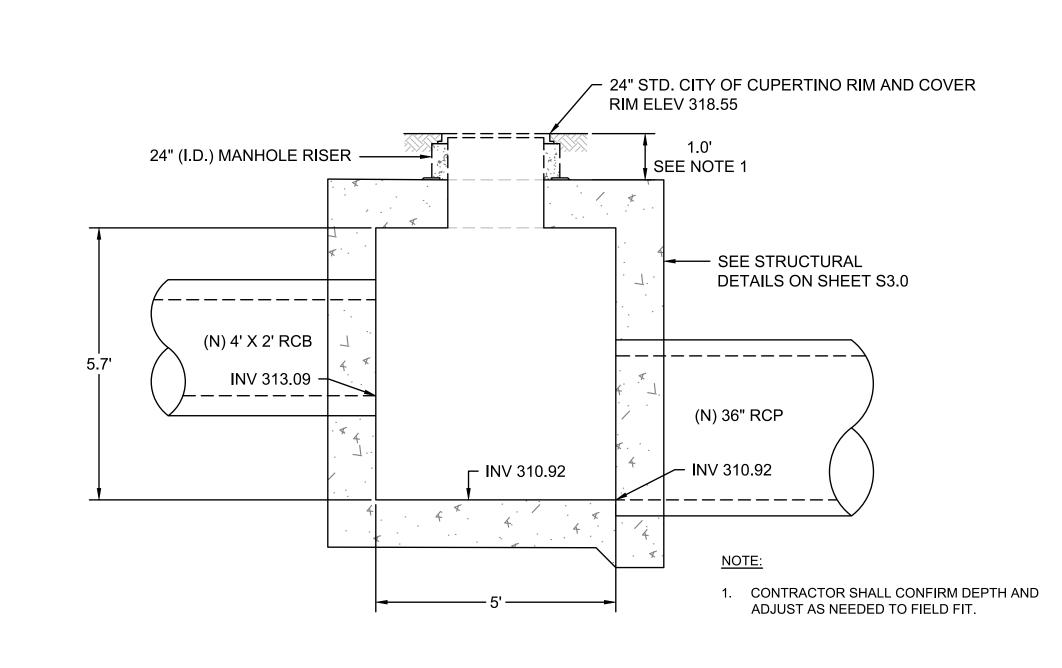


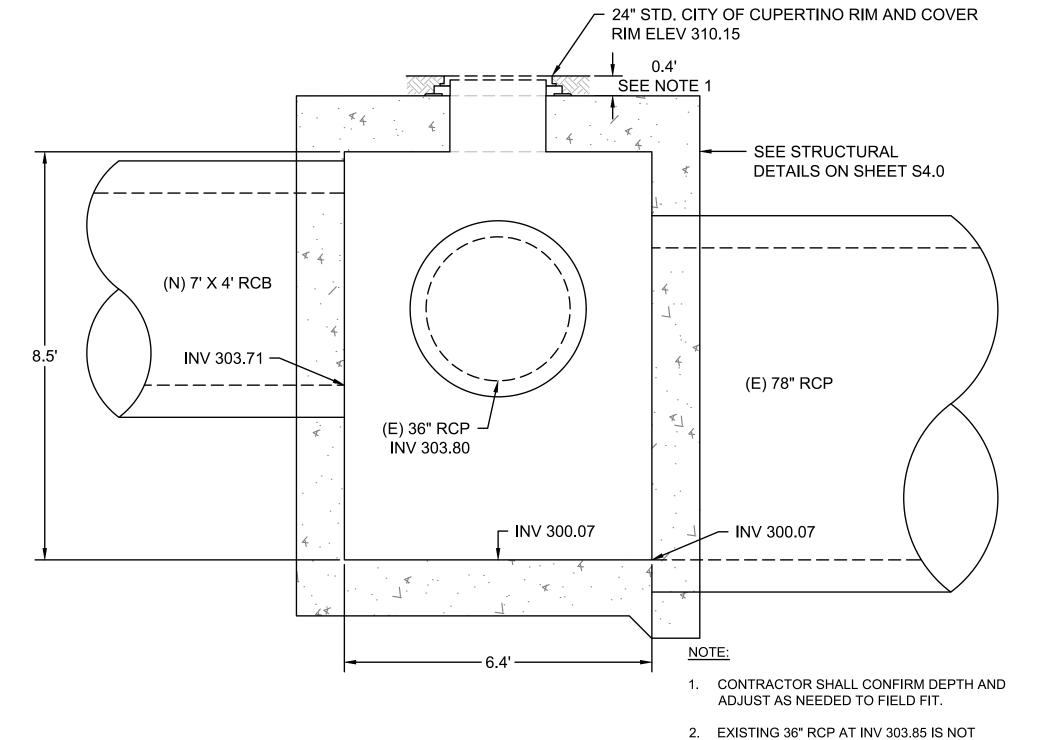
















3 TRANSITION STRUCTURE #2

4 TRANSITION STRUCTURE *3

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SHOWN FOR CLARITY.



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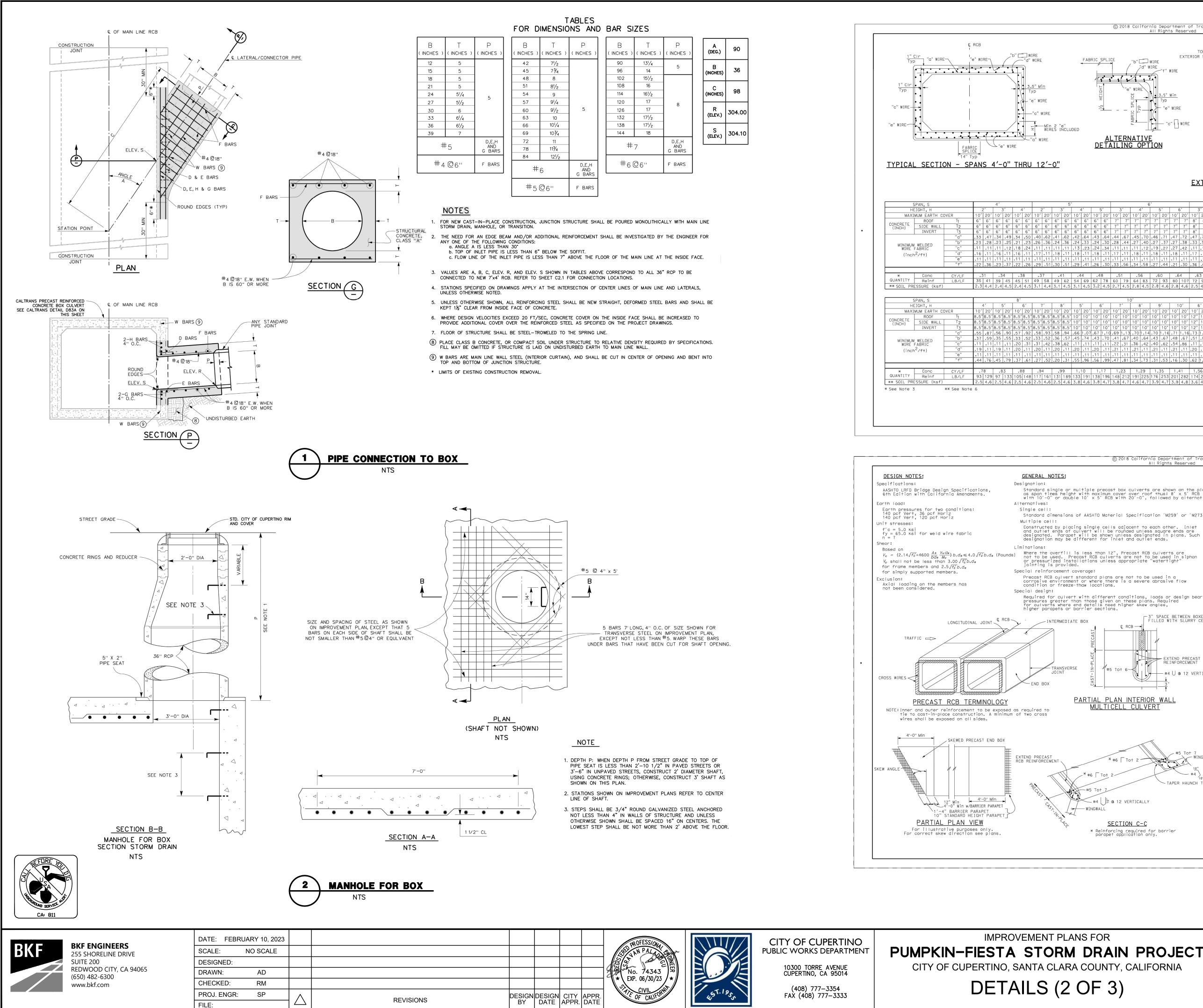


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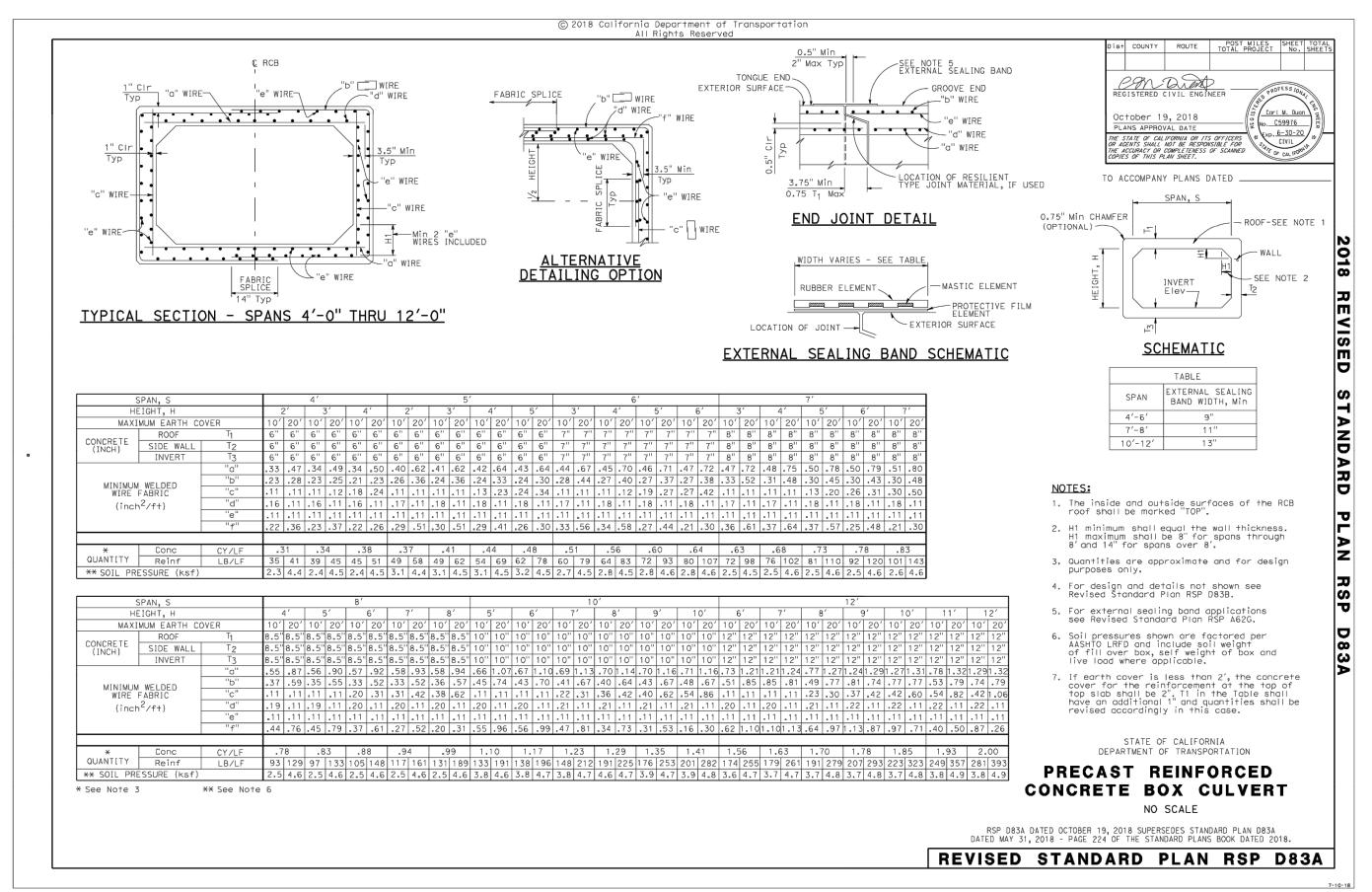
IMPROVEMENT PLANS FOR PUMPKIN-FIESTA STORM DRAIN PROJECT CITY OF CUPERTINO, SANTA CLARA COUNTY, CALIFORNIA

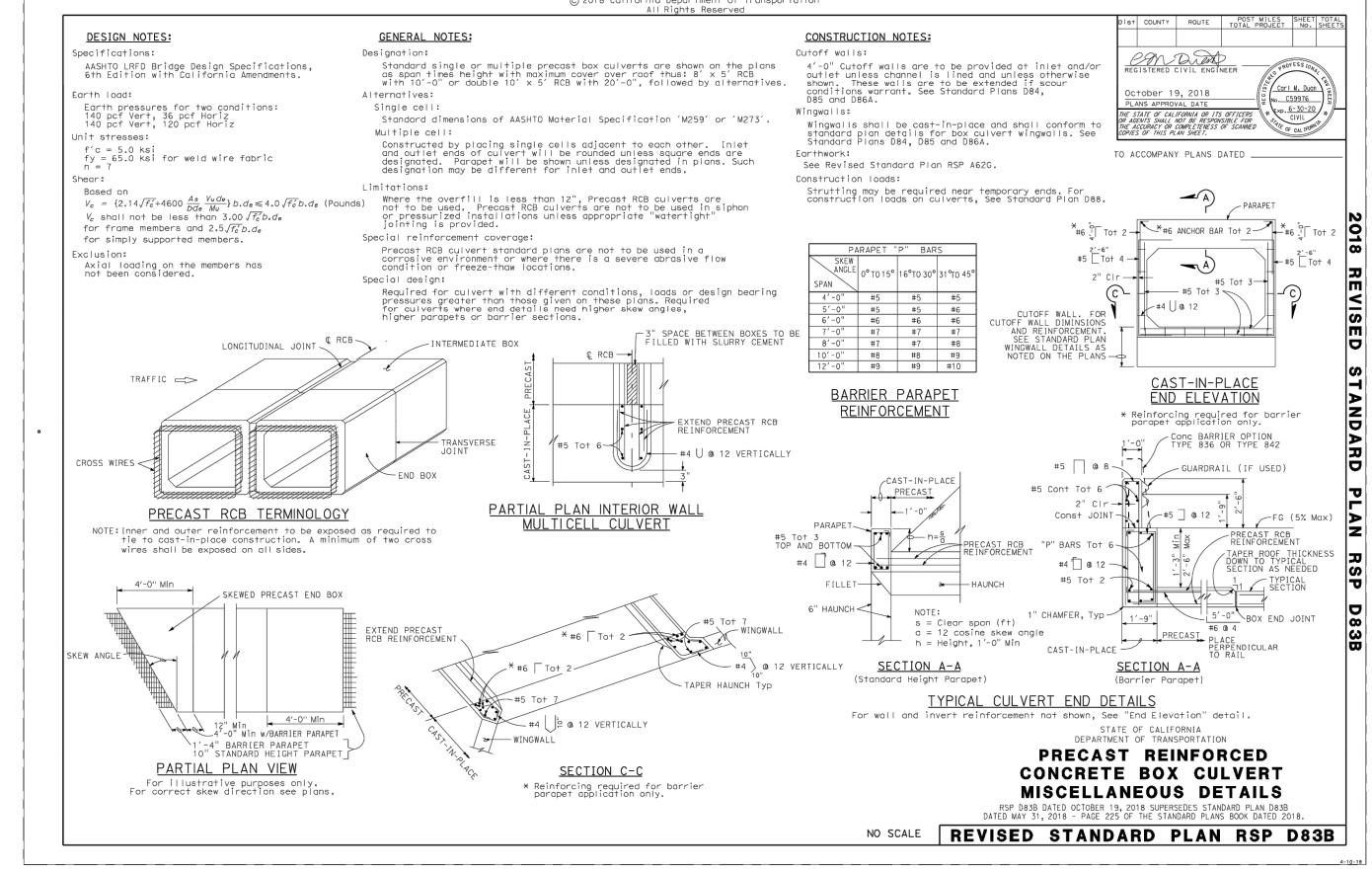
DETAILS (1 OF 3)

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FOR CITY OF CUPERTINO USE PROJECT # 2022-01	CITY OF CUPERTINO
PUBLIC WORKS INSPECTOR:	C3.0
VOICE MAIL:	SHEET 6 OF 15



CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CON SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF





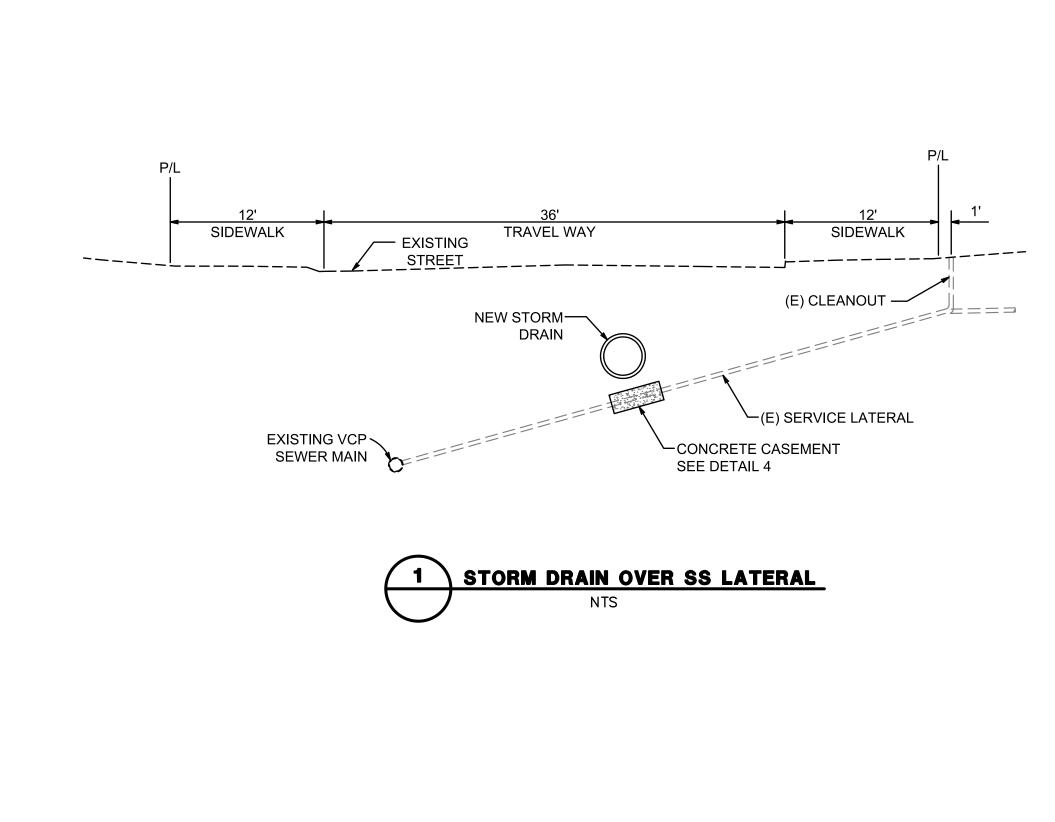
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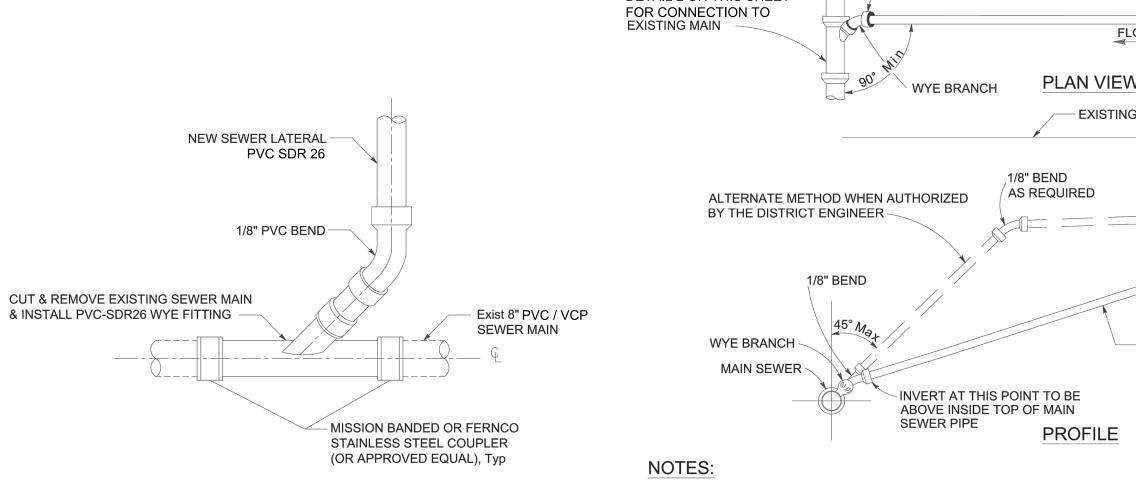
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SHEET 7 OF 15

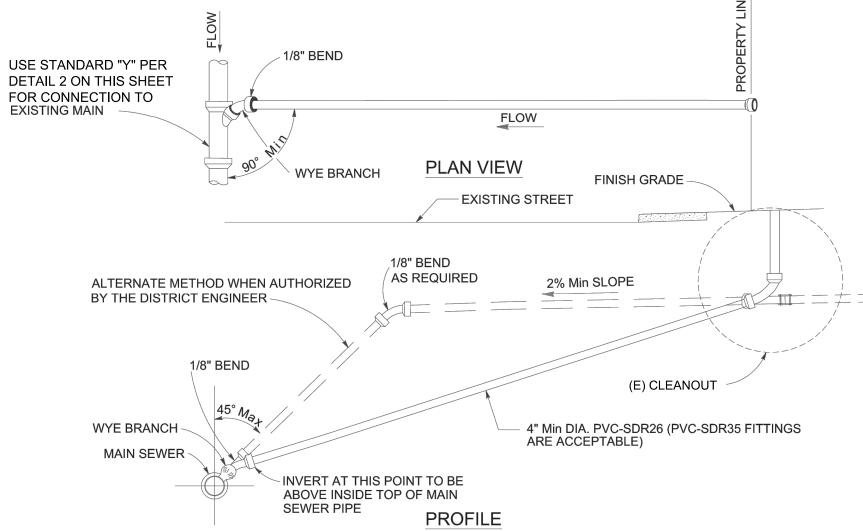
CITY OF **CUPERTINO**

FOR CITY OF CUPERTINO USE PROJECT # 2022-01 PUBLIC WORKS INSPECTOR: VOICE MAIL:



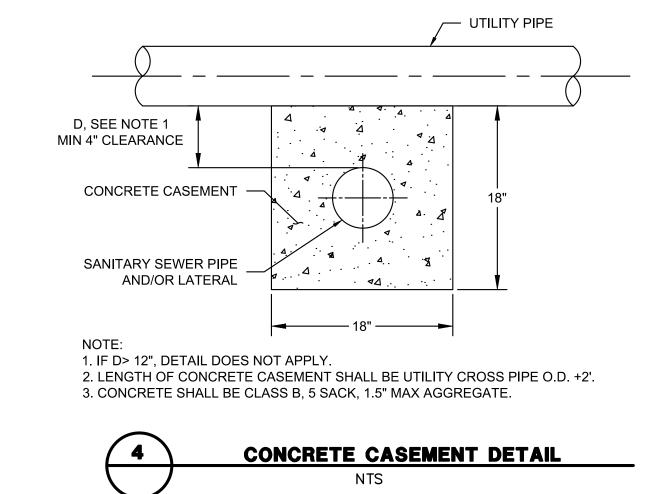


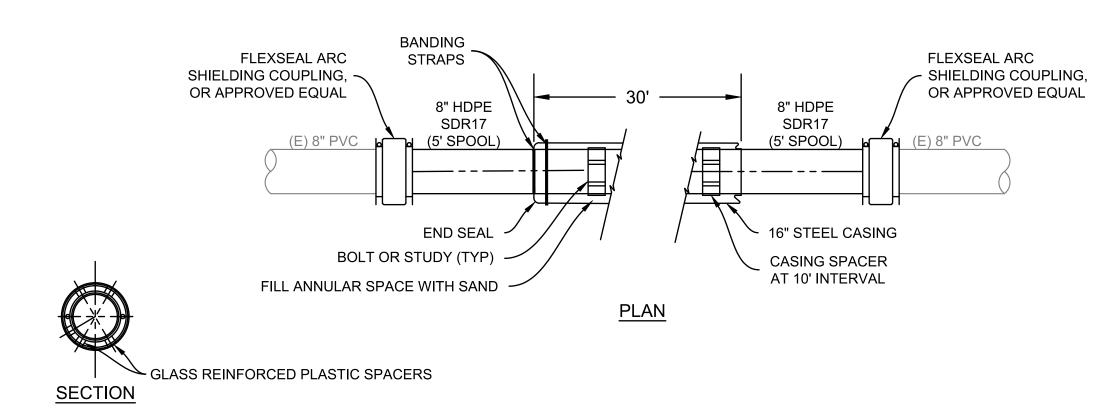
NEW SS LATERAL CONNECTION TO EXISTING SEWER MAIN NTS



- 1. MINIMUM PIPE SLOPE IS 2%.
- 2. CONTRACTOR SHALL POTHOLE AND VERIFY LOCATION & DEPTH OF EXISTING SEWER LATERAL PRIOR TO RECONSTRUCTION OF THE LATERAL.
- 3. TRENCH BEDDING SHALL BE A MINIMUM OF 8" OF 3/4" CRUSHED ROCK.







STEEL SLEEVE DETAIL

NOTES:

- 1. ALL JOINTS OF CARRIER PIPE WITHIN CASING SHALL BE FUSED.
- CARRIER PIPE SHALL BE TESTED BEFORE INSTALLATION OF THE END SEALS ON CASING.
- 3. CASING SPACERS SHALL BE BOLTED AROUND THE PIPE SO THAT THE PLASTIC RUNNERS ARE LOCATED SYMMETRICALLY ABOUT THE VERTICAL AXIS OF THE PIPE.
- 4. 1/4" WALL THICKNESS SHALL BE USED FOR CASING.
- 5. CASING TO EXTEND A MINIMUM OF 5' FROM BOTH OUTER EDGES OF RCB CROSSING.



FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLL ITINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR IM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WETHE OWNER OR THE ENGINEER.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CON SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF

BKF ENGINEERS255 SHORELINE DRIVE SUITE 200 REDWOOD CITY, CA 94065 (650) 482-6300 www.bkf.com

	DATE:	MARCH 30, 2023						
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	DRAWN:	AD						*
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CITY OF CUPERTINO PUBLIC WORKS DEPARTMENT 10300 TORRE AVENUE CUPERTINO, CA 95014 (408) 777—3354 FAX (408) 777—3333

IMPROVEMENT PLANS FOR PUMPKIN-FIESTA STORM DRAIN PROJECT CITY OF CUPERTINO, SANTA CLARA COUNTY, CALIFORNIA

DETAILS (3 OF 3)

SHEET 8 OF 15

FOR CITY OF CUPERTINO USE PROJECT # 2022-01 PUBLIC WORKS INSPECTOR: C3.2 VOICE MAIL:

CONSTRUCTION LIABILITY

THE CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS AGREE THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, AND THE CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS FURTHER AGREE TO DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL HARMLESS FROM ANY LIABILITY, REAL OR ALLEGED. IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

EARTHWORK

EARTHWORK MUST CONFORM TO SECTION 19 "EARTHWORK" OF THE STATE STANDARD SPECIFICATIONS AND THE GEOTECHNICAL INVESTIGATION REPORT DATED MAY 2022 BY HALEY & ALRICH, INC.

MATERIAL FOR STRUCTURE BACKFILL MUST CONFORM TO AND BE COMPACTED IN ACCORDANCE WITH SECTION 19-3.02C "STRUCTURE BACKFILL" AND SECTION 19-3.03E "STRUCTURE BACKFILL" OF THE STATE STANDARD SPECIFICATIONS.

A GEOTECHNICAL INVESTIGATION REPORT DATED MAY 2022 BY HALEY & ALDRICH, INC. HAS BEEN PREPARED FOR THIS PROJECT. CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS THEREIN. IN CASE OF CONFLICT BETWEEN THE FOUNDATION REPORT AND THE STATE STANDARD SPECIFICATIONS OR THESE STRUCTURAL SPECIFICATIONS, THE REQUIREMENTS IN THE FOUNDATION REPORT SHALL TAKE PRECEDENCE OVER AND BE USED IN LIEU OF SUCH CONFLICTING PROVISIONS AS DIRECTED BY THE ENGINEER.

CONCRETE

CONCRETE AND THE CONSTRUCTION OF CONCRETE STRUCTURES MUST CONFORM TO SECTION 51 "CONCRETE STRUCTURES" AND SECTION 90 "PORTLAND CEMENT CONCRETE" OF THE STATE STANDARD SPECIFICATIONS AND THESE STRUCTURAL SPECIFICATIONS. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI. ALL CONCRETE SHALL BE DESIGNATED BY COMPRESSIVE STRENGTH AND SHALL BE PREQUALIFIED PER SECTION 90-1.01D(5) "COMPRESSIVE STRENGTH."

PROVIDE STRIP WATERSTOPS AT ALL NEW CONSTRUCTION JOINTS. STRIP WATERSTOPS MUST CONFORM TO SECTION 51-2.05 "STRIP WATERSTOPS" OF THE STATE STANDARD SPECIFICATIONS.

PROVIDE HYDROPHILIC FLEXIBLE WATERSTOPS AT EXISTING CONCRETE CONSTRUCTION. FLEXIBLE WATERSTOPS MUST BE RAM-NEK PREFORMED FLEXIBLE PLASTIC SEAL, SWELLSEAL HYDROPHILLIC WATERSTOP, OR APPROVED EQUAL.

THE CONTRACTOR IS RESPONSIBLE FOR CALCULATING AND SETTING ELEVATION CONTROL POINTS TO CONSTRUCT CONCRETE STRUCTURES TO THE LINES AND GRADES SHOWN. SUBMIT CONCRETE FORMWORK CONTROL POINTS AND ALLOW 5 DAYS FOR THE ENGINEERS REVIEW.

REINFORCING STEEL

REINFORCING STEEL MUST CONFORM TO SECTION 52 "REINFORCEMENT" OF THE STATE STANDARD SPECIFICATIONS.

QUALITY ASSURANCE INSPECTIONS

SURVEY VERIFICATIONS

- SURVEY VERIFICATIONS SHALL BE MADE TO VERIFY THAT THE STRUCTURE LAYOUT AND GRADES ARE IN ACCORDANCE WITH THE PROJECT PLANS.

EARTHWORK

- PERIODICALLY INSPECT EXCAVATIONS FOR PROPER DEPTH.
- PERIODICALLY INSPECT MATERIALS BELOW FOOTINGS FOR BEARING
- PERIODICALLY PERFORM CLASSIFICATION AND TESTING OF STRUCTURE BACKFILL MATERIALS.
- CONTINUOUSLY VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF STRUCTURE BACKFILL
- PRIOR TO PLACEMENT OF STRUCTURE BACKFILL AND FOOTINGS, OBSERVE SUBGRADE AND VERIFY THE SUBGRADE HAS BEEN PREPARED PROPERLY.

CONCRETE

- PERIODICALLY INSPECT CONCRETE FORMWORK INSTALLATION AND REMOVAL
- CONTINUOUSLY INSPECT THE PLACEMENT OF ALL CONCRETE - SAMPLE CONCRETE: ASTM C172, EXCEPT SLUMP SHALL COMPLY WITH ASTM C94.
- TEST SLUMP: ASTM C143, ONE TEST AT POINT OF TRUCK DISCHARGE FOR 150 CY OR FRACTION THEREOF FOR EACH TYPE OF CONCRETE; ADDITIONAL TESTS REQUIRED WHEN CONCRETE CONSISTENCY SEEMS TO HAVE CHANGED.
- TEST CONCRETE TEMPERATURE: TEST HOURLY WHEN AIR TEMPERATURE IS 50 DEGREES F. AND BELOW, AND WHEN 85 DEGREES F. AND ABOVE; AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS ARE MADE.
- TAKE COMPRESSION TEST SPECIMENS: ASTM C31, TAKE A MINIMUM OF ONE SET OF 6 STANDARD CYLINDERS FOR EACH 150 CY OF CONCRETE OR FRACTION THEREOF FOR EACH TYPE OF CONCRETE TAKEN EACH DAY. MOLD AND STORE CYLINDERS FOR LABORATORY CURED TEST SPECIMENS EXCEPT WHEN FIELD-CURE TEST SPECIMENS ARE REQUIRED.
- TEST COMPRESSIVE STRENGTH: ASTM C39; TWO SPECIMENS TESTED AT 7 DAYS. TWO SPECIMENS TESTED AT 28 DAYS.

REINFORCING STEEL

- VERIFY THAT MILL CERTIFICATES SHOW REINFORCING STEEL IS IN COMPLIANCE WITH PROJECT SPECIFICATIONS.
- PERIODICALLY INSPECT THE PLACEMENT OF REINFORCING STEEL, FOR CONCRETE WHICH IS REQUIRED TO HAVE CONTINUOUS

SUBMITTALS

IN ADDITION TO OTHER SUBMITTAL REQUIREMENTS SPECIFIED IN THE STATE STANDARD SPECIFICATIONS OR PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT TO THE STRUCTURAL ENGINEER OF RECORD FOR HIS REVIEW THE FOLLOWING ITEMS:

- 1. CONCRETE MIX DESIGNS
- 2. BAR REINFORCING STEEL SHOP DRAWINGS

- 1. CONTRACTOR SHALL ELECTRONICALLY SUBMIT SUBMITTALS FOR REVIEW OR SHALL SUBMIT A MINIMUM OF TWO SETS OF HARD PRINTS FOR REVIEW
- 2. THE GENERAL CONTRACTOR SHALL REVIEW EACH SUBMITTAL PRIOR TO FORWARDING TO THE ENGINEER. THE GENERAL CONTRACTOR SHALL VERIFY THAT THE SHOP DRAWING IS COORDINATED AMONG ALL CONSTRUCTION TRADES AND THAT THE ENGINEER'S COMMENTS FROM ANY PREVIOUS SUBMITTALS ARE ADDRESSED.
- 3. CONTRACTOR SHALL SUBMIT IN WRITING, ANY REQUEST FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS. SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING REQUESTED.
- 4. REVISIONS FROM PREVIOUS SUBMITTALS SHALL BE CLEARLY MARKED BY CLOUDS.
- 5. FABRICATION SHALL NOT PROCEED UNTIL SUBMITTALS HAVE BEEN REVIEWED BY THE ENGINEER.

BRACING & SHORING

- 1. THE STABILITY AND INTEGRITY OF THE EXISTING STRUCTURE DURING CONSTRUCTION SHALL BE MAINTAINED AT LEVELS GENERALLY ACCEPTABLE WITHIN THE CONSTRUCTION INDUSTRY BY THE USE OF BRACING AND SHORING UNTIL THE PROPOSED STRUCTURE MODIFICATIONS ARE COMPLETED. IN NO CASE SHALL THE EXISTING STRUCTURE BE ALLOWED TO BECOME UNSAFE DURING CONSTRUCTION.
- 2. THE BRACING AND SHORING SYSTEMS REQUIRED TO PROVIDE TEMPORARY SUPPORT OF THE EXISTING STRUCTURE DURING CONSTRUCTION SHALL BE DESIGNED TO SUPPORT THE DEAD, LIVE, SOIL, EARTHQUAKE AND WIND LOADS THAT MAY BE IMPOSED ON THE STRUCTURE DURING CONSTRUCTION IN ACCORDANCE WITH INDUSTRY STANDARDS AND GENERALLY ACCEPTED ENGINEERING PRINCIPLES.
- 3. THE CONTRACTOR SHALL SUBMIT PROPOSED SHORING, BRACING AND UNDERPINNING SYSTEMS TO THE ENGINEER FOR REVIEW. THE SUBMITTAL WILL BE REVIEWED ONLY IN SO FAR AS THE DETAILS AFFECT THE CHARACTER OF THE FINISHED WORK, BUT THE DETAILS OF DESIGN WILL BE LEFT TO THE CONTRACTOR WHO SHALL BE RESPONSIBLE FOR THE SUCCESSFUL COMPLETION OF THE WORK.
- 4. NO CONSTRUCTION OF THE BRACING, SHORING OR UNDERPINNING SYSTEMS, DEMOLITION FOR ITS CONSTRUCTION OR ORDERING MATERIALS SHALL TAKE PLACE UNTIL THE CONTRACTOR HAS RECEIVED REVIEWED SUBMITTALS BY THE ENGINEER.
- 5. THE SUBMITTALS SHALL SHOW LAYOUT, SIZE OF MEMBERS, CONNECTION DETAILS AND CONSTRUCTION SEQUENCE FOR ALL BRACING AND SHORING SYSTEMS. THE SUBMITTALS SHALL BE ACCOMPANIED BY STRUCTURAL CALCULATIONS SIGNED BY A REGISTERED CIVIL ENGINEER OF THE STATE OF CALIFORNIA. THE ENGINEER SHALL ALSO PROVIDE A LETTER STATING THAT HE/SHE HAS REVIEWED THE SUBMITTALS FOR COMPLETENESS AND SHALL PERFORM FIELD VISITS AS REQUIRED IN ORDER TO CHECK GENERAL CONFORMANCE OF THE CONSTRUCTION TO HIS CALCULATIONS.
- 6. THE CONTRACTOR SHALL PROVIDE STRUCTURAL CALCULATIONS SIGNED BY A REGISTERED CIVIL ENGINEER OF THE STATE OF CALIFORNIA JUSTIFYING THE USE OF ANY PROPOSED CONSTRUCTION EQUIPMENT LOADING IMPOSED ON THE EXISITNG STRUCTURE.

GENERAL NOTES

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

8TH EDITION WITH CALIFORNIA AMENDMENTS

REINFORCED CONCRETE: fy = 60,000 PSIf'c = 4,000 PSI

LIVE LOADING: HS20-44

SOIL LOADS: PER GEOTECHNICAL RECOMMENDATIONS REPORT PUMPKIN FIESTA PHASE 1 STORM DRAIN BY HALEY

ALDRICH DATED MAY, 2022

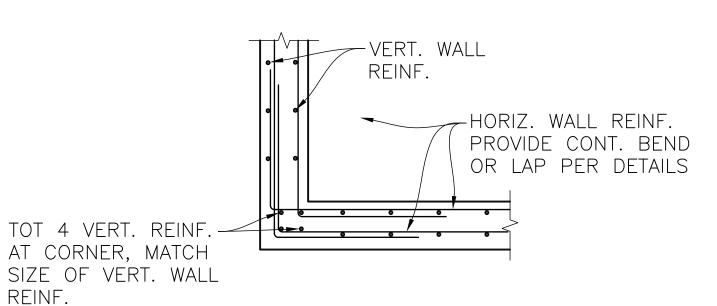
120 PCF VERTICAL EARTH PRESSURE: 100 PSF LIVE LOAD SURCHARGE: HORIZ. AT-REST EARTH PRESSURE: 60 PCF HORIZ. ACTIVE EARTH PRESSURE: 40 PCF 0.035H SEISMIC EARTH PRESSURE:

ALLOWABLE BEARING PRESSURE: 2,000 PSF

- 1. LOCATIONS AND ELEVATIONS OF EXISTING STRUCTURES, SEWERS, AND OTHER FACILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION AND ELEVATION OF EXISTING FACILITIES PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THESE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 4. THE CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS, LAYOUT, AND DIMENSIONS PRIOR TO START OF CONSTRUCTION OR ORDERING OR FABRICATING ANY MATERIAL. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- 5. PIPE SIZE, THICKNESS AND ORIENTATION IS SCHEMATIC ONLY. FOR ACTUAL PIPE SIZE, INVERT ELEVATIONS, LOCATION AND ORIENTATION OF JUNCTION BOX, SEE CIVIL PLANS.
- 6. CONSTRUCTION JOINTS SHOWN ON THE PLANS ARE OPTIONAL AND MAY BE OMITTED AT THE CONTRACTOR'S OPTION.
- 7. REFER TO CIVIL PLANS FOR ADDITIONAL DETAILS AND LAYOUT INFORMATION.

INDEX TO STRUCTURE PLANS

SHEET NO.	TITLE	SHEET TITLE
9 10 11 12 13 14	S1.0 S2.0 S3.0 S4.0 S5.0 S6.0	PROJECT DESIGN DATA TRANSITION STRUCTURE #1 TRANSITION STRUCTURE #2 TRANSITION STRUCTURE #3 JUNCTION STRUCTURE CLOSURE PIECES



TYPICAL CORNER DETAIL 1/2" = 1'-0"

100% SUBMITTAL NOT FOR CONSTRUCTION

CORNERSTONE structural engineering 986 W Alluvial A group Fresno, California 9371 559.320.3200 fax 559.320.3201

02/08/23 DATE: SCALE: AS NOTED REB/TLW DESIGNED: DRAWN: CHECKED: PROJ. ENGR: REB DESIGN DESIGN CITY APPR. DATE APPR. DATE **REVISIONS** FILE:



CITY OF CUPERTINO **PUBLIC WORKS DEPARTMENT** 10300 TORRE AVENUE CUPERTINO, CA 95014

(408) 777-3354

FAX (408) 777-3333

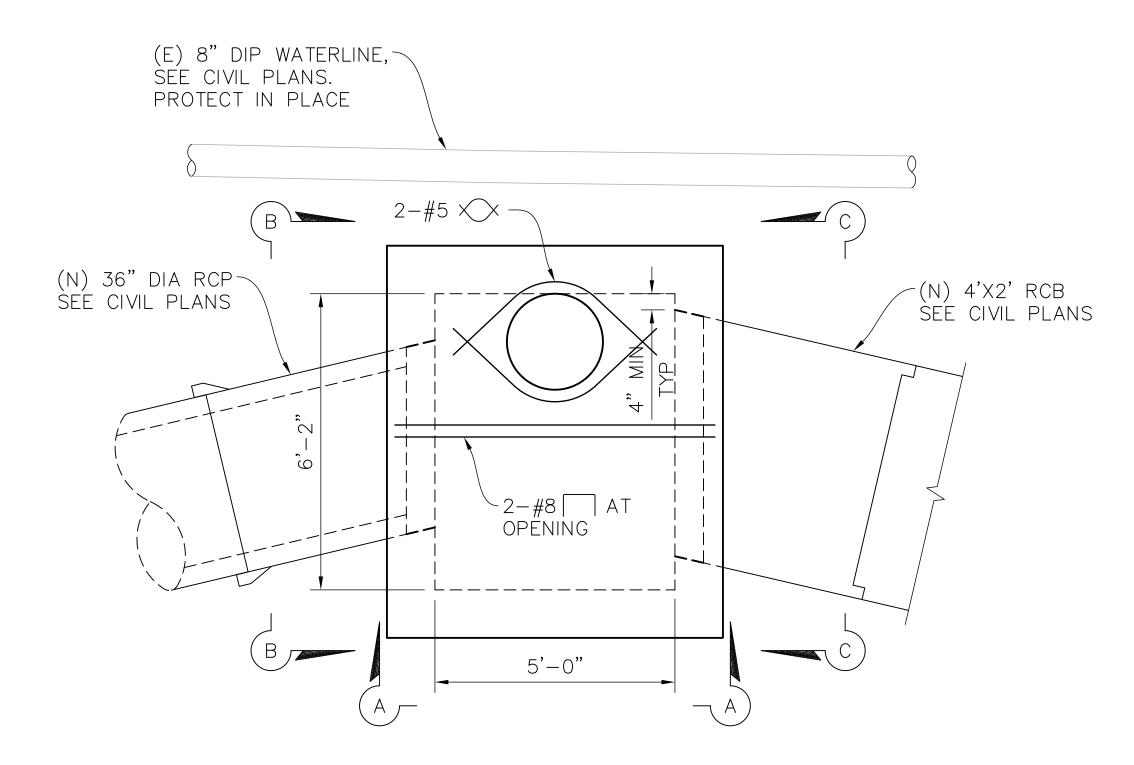
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IMPROVEMENT PLANS FOR PUMPKIN-FIESTA STORM DRAIN PROJECT CITY OF CUPERTINO, SANTA CLARA COUNTY, CALIFORNIA

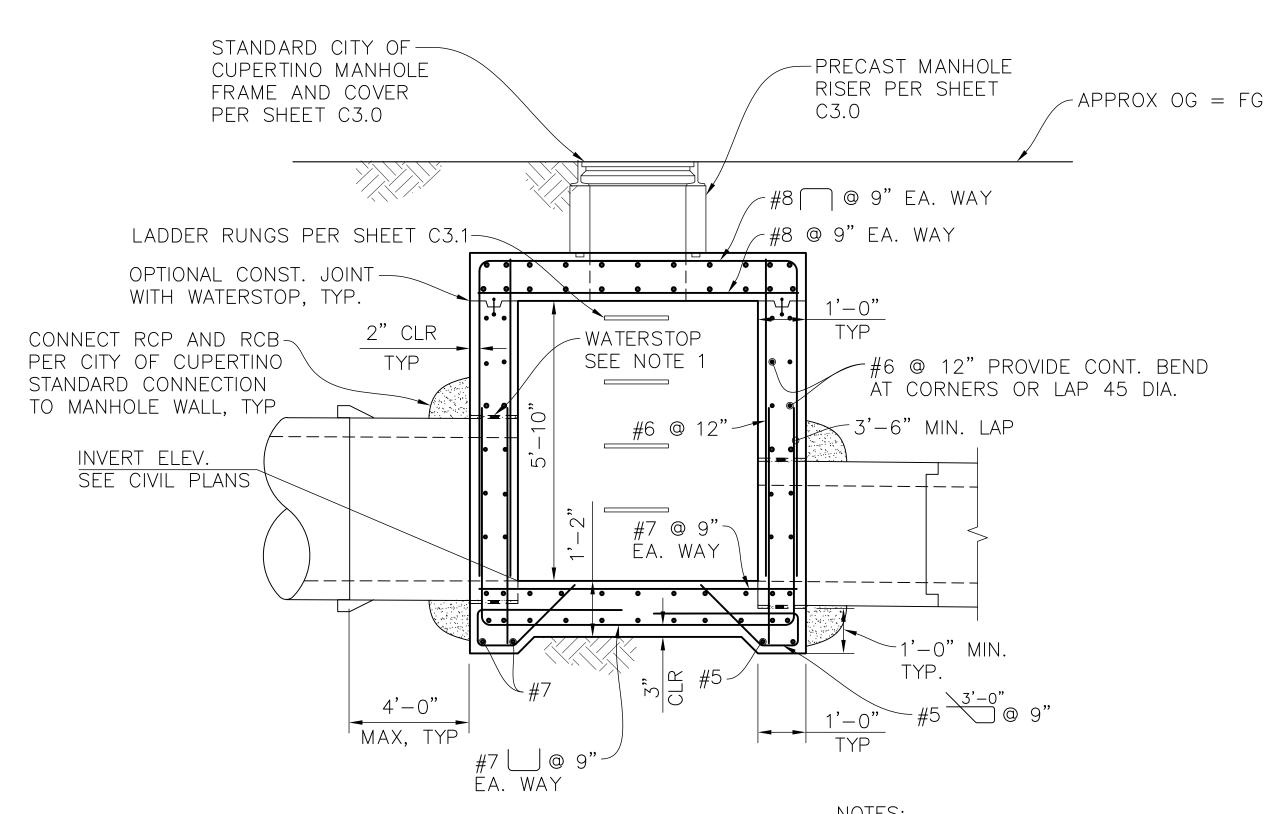
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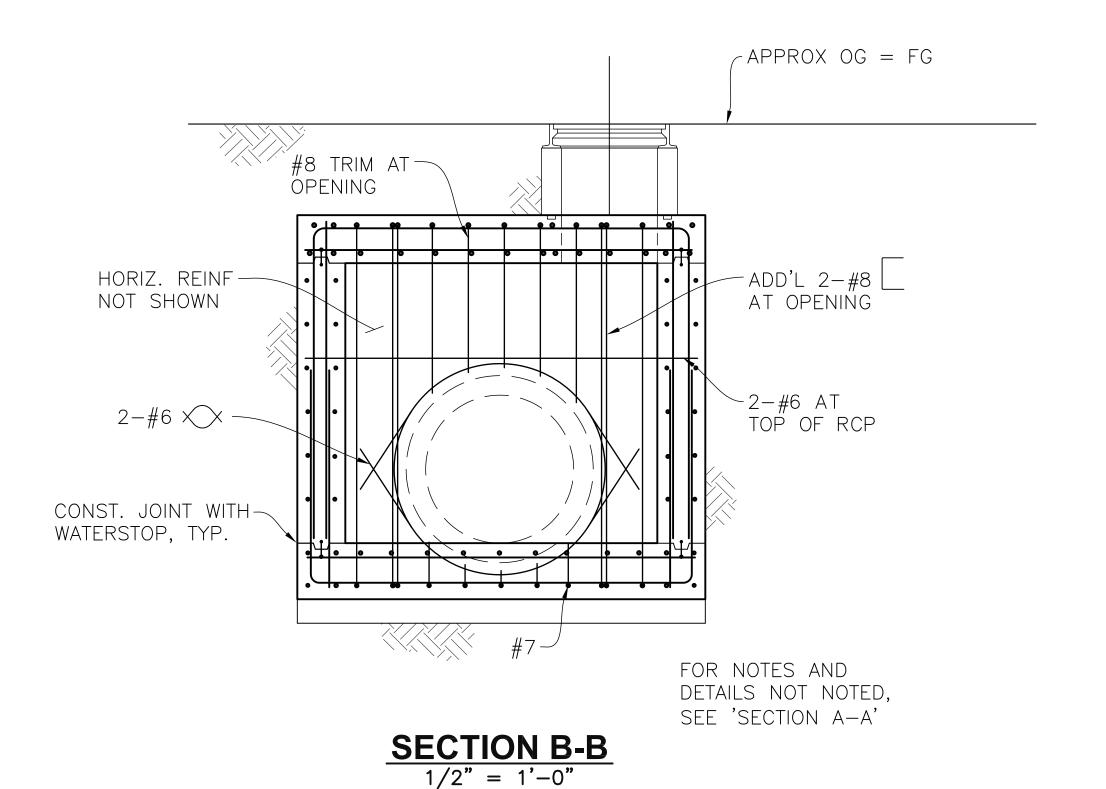
FOR CITY OF CUPERTINO USE CITY OF PROJECT # 2022-01 **CUPERTINO** PUBLIC WORKS INSPECTOR: **S1.0** VOICE MAIL: SHEET 9 OF 15

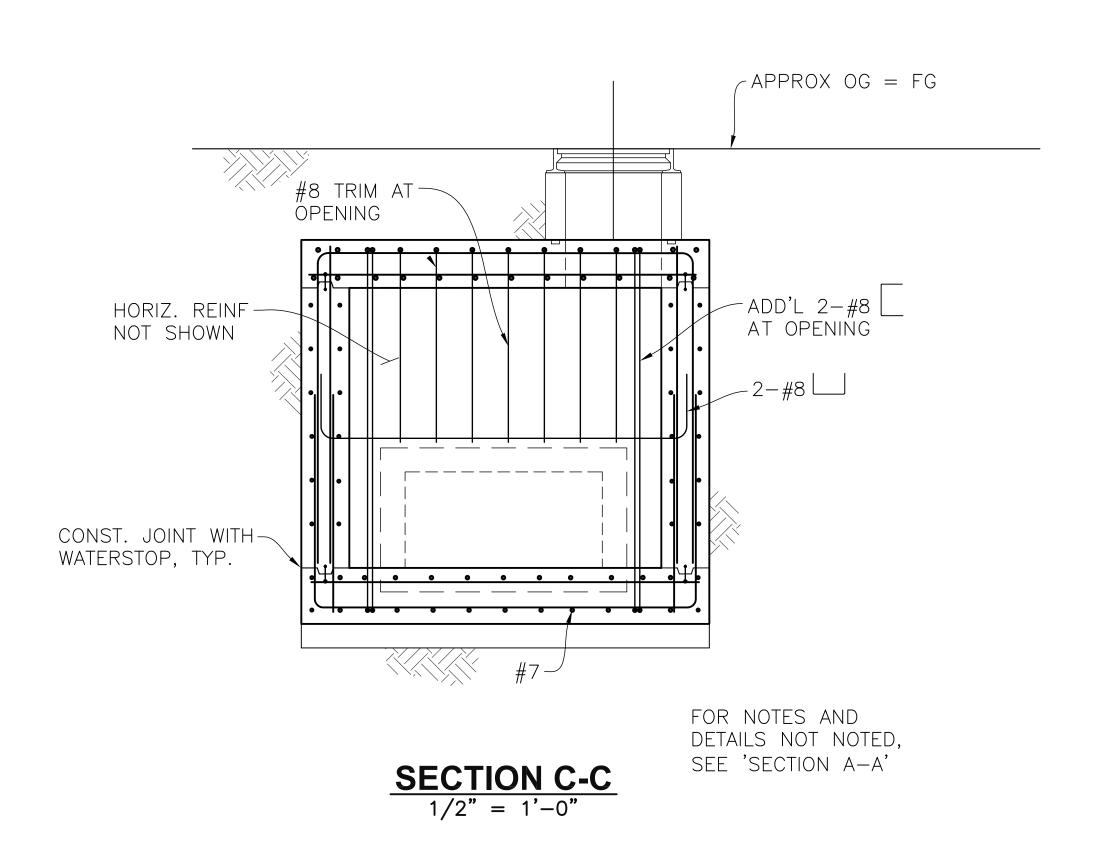
FEBRUARY 2022













SECTION A-A 1/2" = 1'-0"

02/08/23

AS NOTED

REB/TLW

DATE: SCALE:

engineering 986 W Alluvial Av

group

DESIGNED:

PROJ. ENGR:

DRAWN: CHECKED:

FILE:

559.320.3200

fax 559.320.3201

1. PROVIDE HYDROPHILIC FLEXIBLE WATERSTOPS AT ALL RCP AND RCB JOINTS

> CITY OF CUPERTINO PUBLIC WORKS DEPARTMENT 10300 TORRE AVENUE CUPERTINO, CA 95014

IMPROVEMENT PLANS FOR PUMPKIN-FIESTA STORM DRAIN PROJECT CITY OF CUPERTINO, SANTA CLARA COUNTY, CALIFORNIA

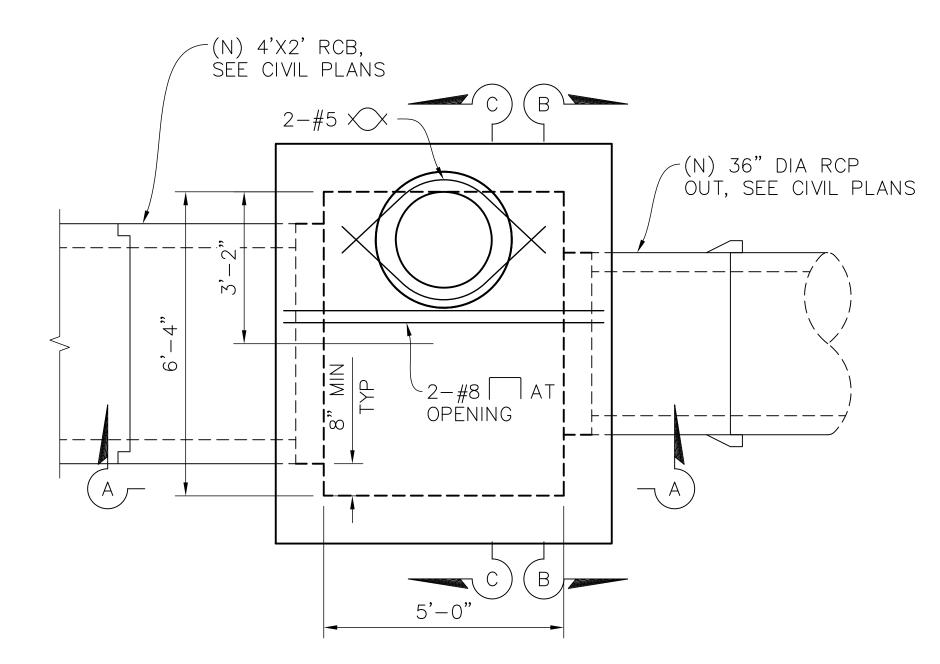
	NOT FOR CONSTRUCTION
FOR CITY OF CUPERTINO USE PROJECT # 2022-01	CITY OF CUPERTINO
PUBLIC WORKS INSPECTOR:	S2.0
VOICE MAIL:	SHEET 10 OF 15

100% SUBMITTAL

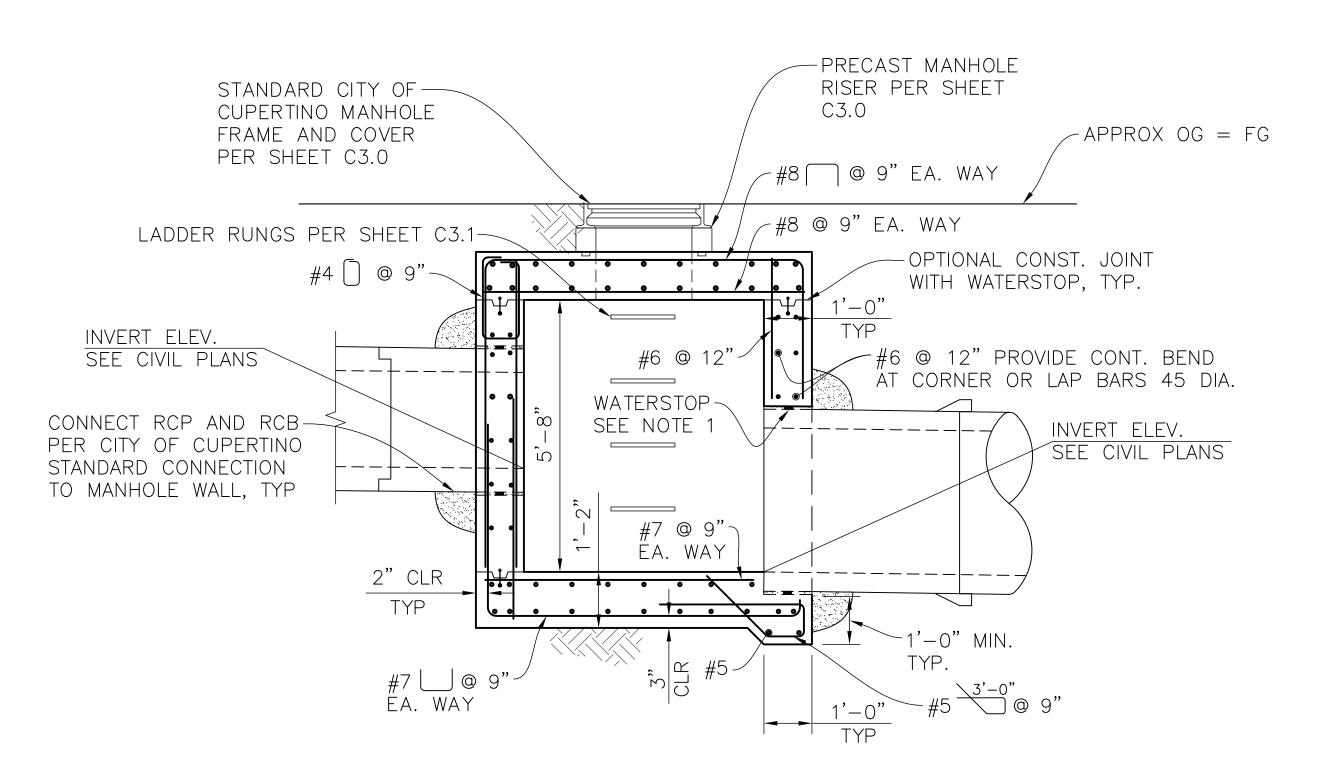
DESIGN DESIGN CITY APPR. DATE REVISIONS

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TRANSITION STRUCTURE #1







CONST. JOINT WITH WATERSTOP, TYP.

#7

HORIZ. REINF

-#8 TRIM AT

"OPENING

SECTION B-B

1/2" = 1'-0"

#8 TRIM AT-

"OPENING

HORIZ. REINF NOT SHOWN

2-#6 ×

CONST. JOINT WITH-WATERSTOP, TYP.

SECTION C-C1/2" = 1'-0"

FOR NOTES AND DETAILS NOT NOTED, SEE 'SECTION A-A'

NOT SHOWN

APPROX OG = FG

-2-#6 AT TOP OF RCP

-ADD'L 2-#8 L at opening

MIN. LAP

FOR NOTES AND DETAILS NOT NOTED,

SEE 'SECTION A-A'

 $\angle APPROX OG = FG$

SECTION A-A1/2" = 1'-0"

NOTES:

1. PROVIDE HYDROPHILIC FLEXIBLE
WATERSTOPS AT ALL RCP AND
RCB JOINTS

IMPROVEMENT PLANS FOR
PUMPKIN-FIESTA STORM DRAIN PROJECT

MPKIN-FIESTA STORM DRAIN PROJECT CITY OF CUPERTINO, SANTA CLARA COUNTY, CALIFORNIA

TRANSITION STRUCTURE #2

FOR CITY OF CUPERTINO USE PROJECT # 2022-01 CUPERTINO

PUBLIC WORKS INSPECTOR: S3.0

VOICE MAIL:

100% SUBMITTAL

SHEET 11 OF 15

NOT FOR CONSTRUCTION

CORNERSTONE
structural
engineering 986 W Alluvial Ave
Suite 201
group
Fresno, California 93711
559.320.3200

fax 559.320.3201

DATE: 02/08/23

SCALE: AS NOTED

DESIGNED: REB/TLW

DRAWN: REB

CHECKED: SMC

PROJ. ENGR: REB

FILE:

REVISIONS

DESIGN DESIGN DESIGN CITY APPR. DATE

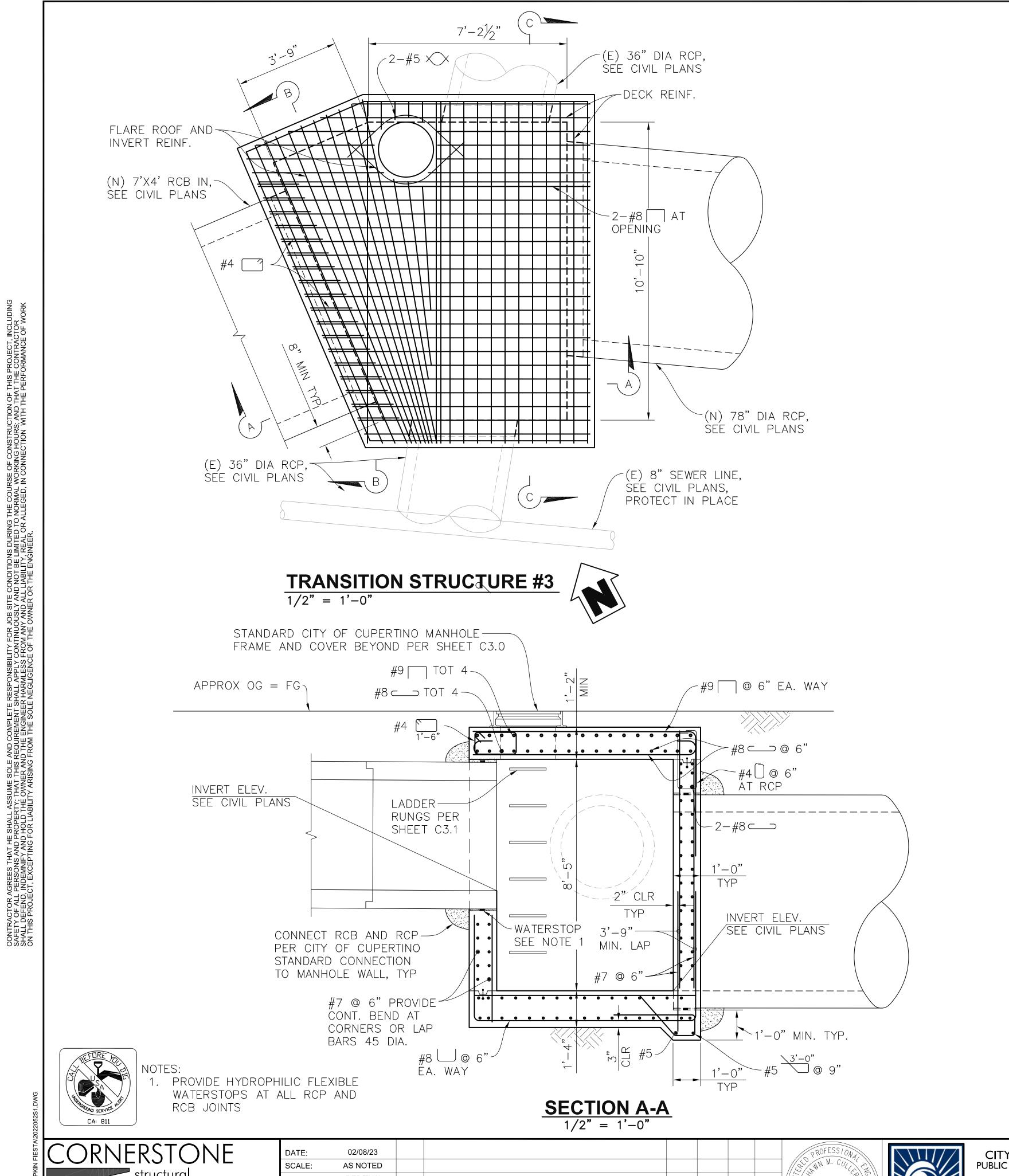
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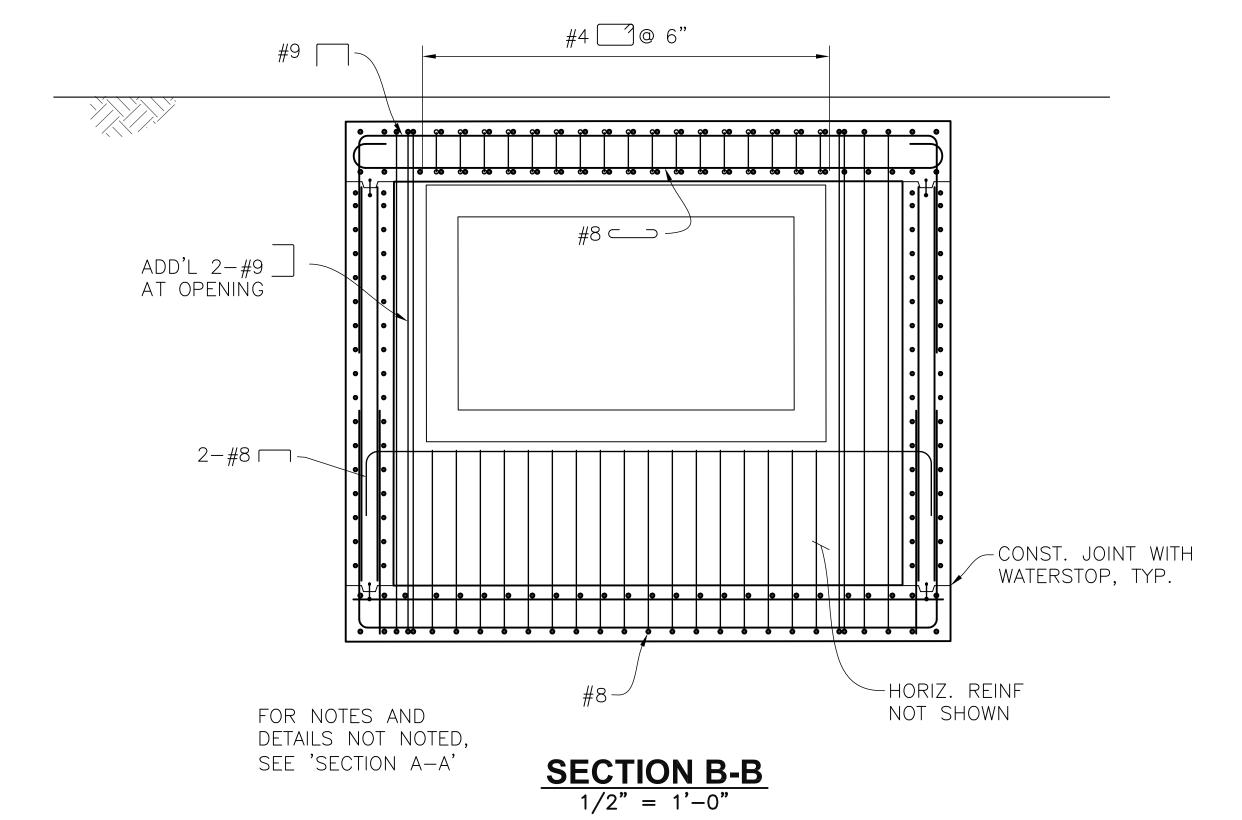


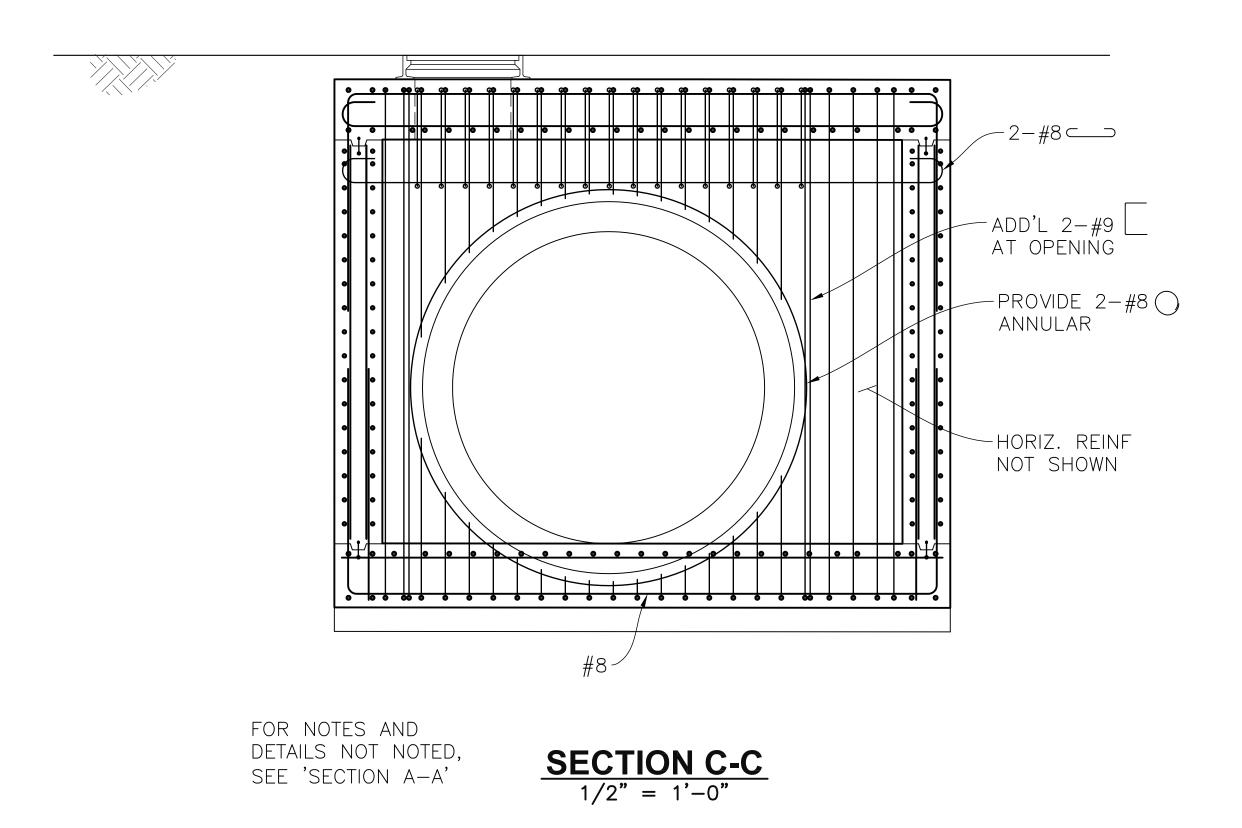
CITY OF CUPERTINO PUBLIC WORKS DEPARTMENT

10300 TORRE AVENUE CUPERTINO, CA 95014

(408) 777-3354
FAX (408) 777-3333







100% SUBMITTAL NOT FOR CONSTRUCTION

DESIGNED: engineering 986 W Alluvial Av DRAWN: CHECKED: group PROJ. ENGR: fax 559.320.3201

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REB/TLW DESIGN DESIGN CITY APPR. DATE REVISIONS



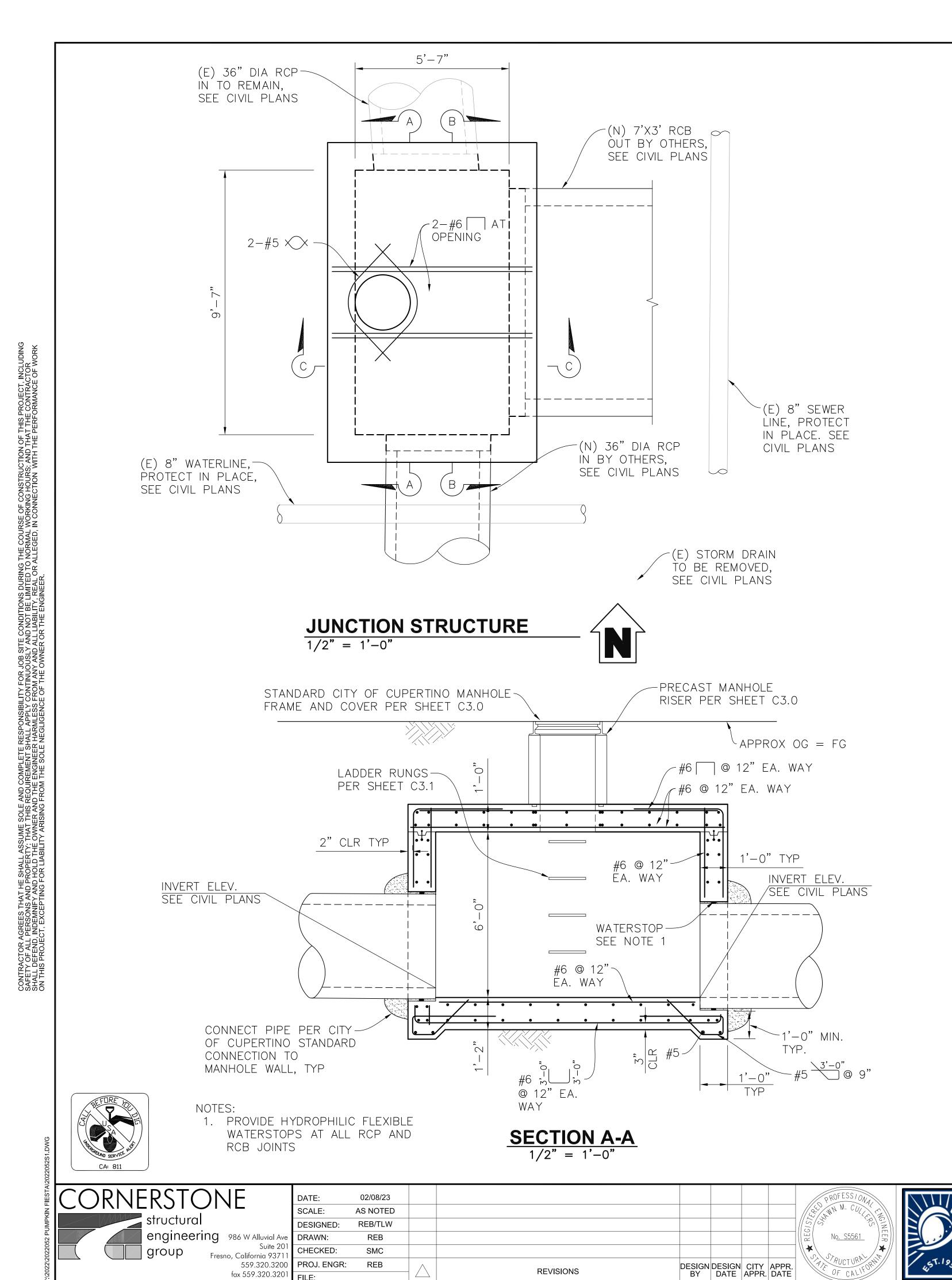
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IMPROVEMENT PLANS FOR PUMPKIN-FIESTA STORM DRAIN PROJECT CITY OF CUPERTINO, SANTA CLARA COUNTY, CALIFORNIA

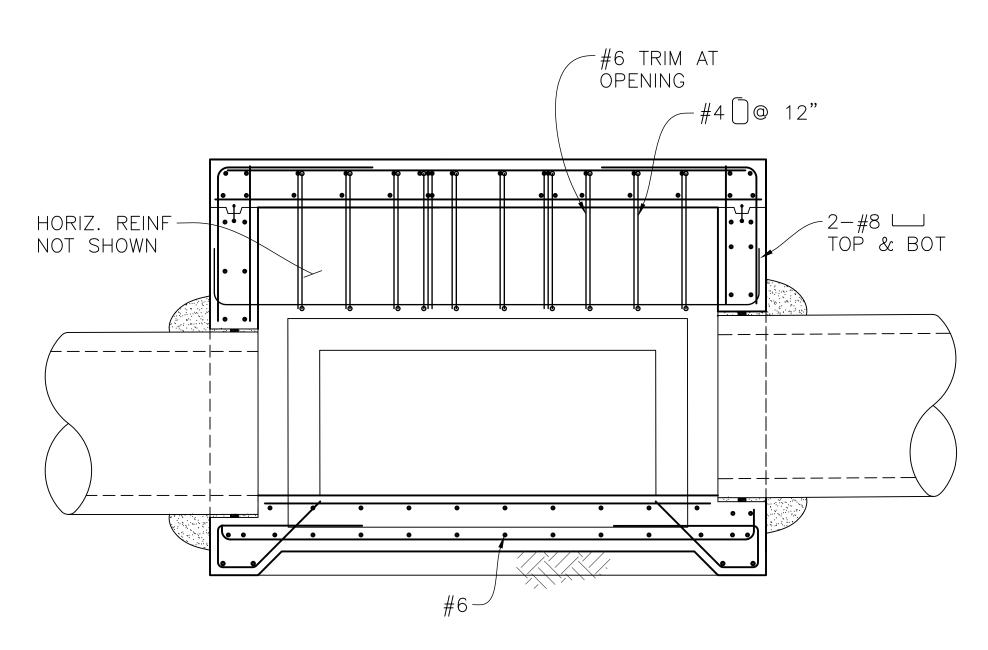
FOR CITY OF CUPERTINO USE PROJECT # 2022-01	CITY OF CUPERTINO
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TRANSITION STRUCTURE #3

SHEET 12 OF 15

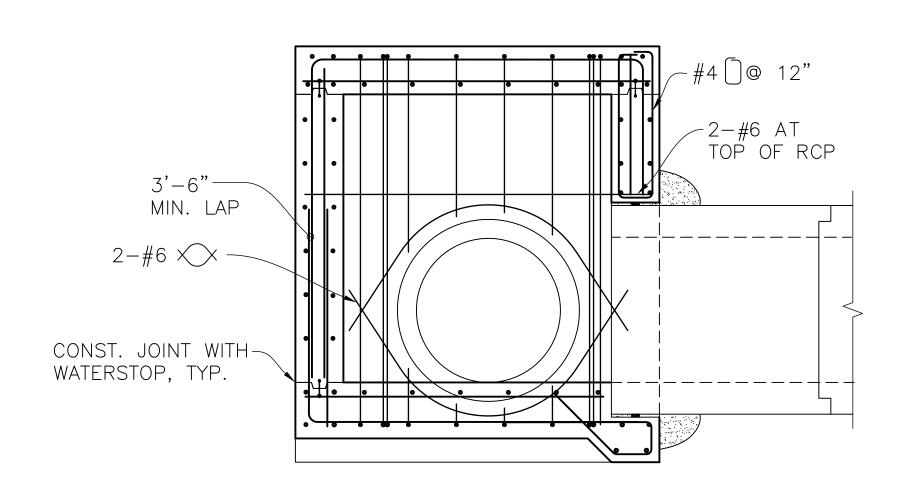


REVISIONS



SECTION B-B 1/2" = 1'-0"

FOR NOTES AND DETAILS NOT NOTED, SEE 'SECTION A-A'



SECTION C-C 1/2" = 1'-0"

FOR NOTES AND DETAILS NOT NOTED, SEE 'SECTION A-A'

IMPROVEMENT PLANS FOR PUMPKIN-FIESTA STORM DRAIN PROJECT CITY OF CUPERTINO, SANTA CLARA COUNTY, CALIFORNIA

CITY OF CUPERTINO PUBLIC WORKS DEPARTMENT

10300 TORRE AVENUE CUPERTINO, CA 95014

(408) 777-3354 FAX (408) 777-3333

VOICE MAIL:

FOR CITY OF CUPERTINO USE CITY OF PROJECT # 2022-01 **CUPERTINO** PUBLIC WORKS INSPECTOR: **S5.0**

100% SUBMITTAL

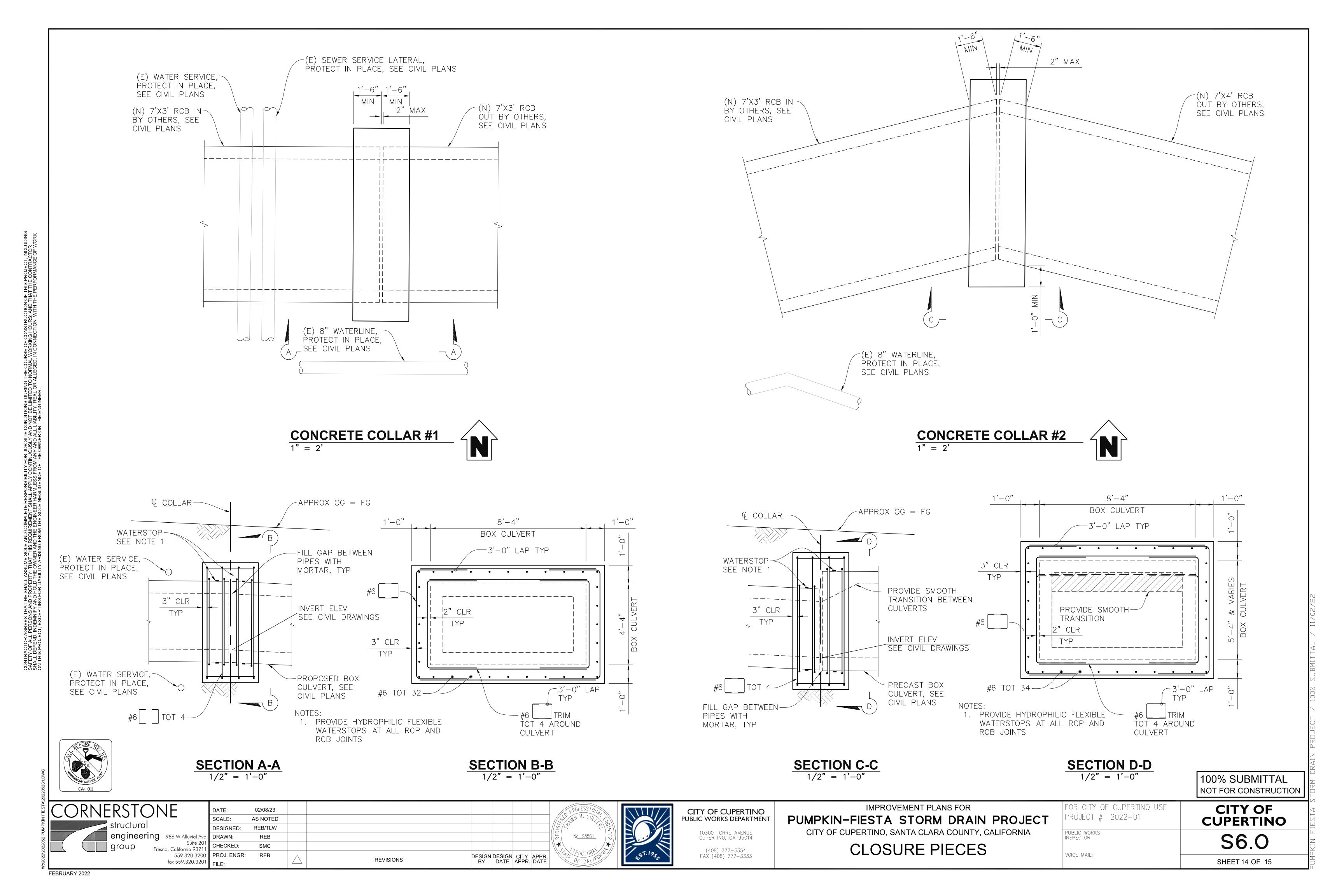
SHEET 13 OF 15

NOT FOR CONSTRUCTION

JUNCTION STRUCTURE

fax 559.320.3201

FILE:



Storm water pollution is a serious problem fo wildlife dependent on our waterways and for the people who live near polluted streams or

Proper management of construction sites reduces pollution significantly. This sheet summarizes the "Best Management

Practices" (BMPs) for storm water pollution

ORDINANCE OF THE CITY OF CUPERTINO FOR STORM WATER POLLUTION **PREVENTION & WATERCOURSE** PROTECTION: Chapter 9.18

9.18.040 Discharge into the storm drain prohibited

It is unlawful to cause, allow, or permit to be discharged, any discharge not composed entirely of stormwater to the storm drain system or to surface waters or to any location where it would contact or eventually be transported to surface waters, including flood plain areas, unless specifically called out in the Municipal Regional Permit as an exempt or conditionally exempt discharge.

9.18.070 Accidental Discharge All persons shall notify the Director of Public Works immediately upon accidentally discharging pollutants of concern to enable countermeasures to be taken by the City to minimize damage to storm drains and the receiving waters. Initial notification shall be followed, within five (5) business days of the date of occurrence, by a detailed written statement describing the causes of the accidental discharge and the measures being taken to prevent future occurrences. Such notification will not relieve persons of liability for violations of this chapter or for any fines imposed on the City on account thereof under Section 13350 of the California Water Code, or for violation of Section 5650 of the California Fish and Wildlife Code, or any other applicable provisions of State or Federal laws.

9.18.220 Violation*

FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJE ITINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONMANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMATHE OWNER OR THE ENGINEER.

Any person who violates any provision of this Chapter shall be guilty of a misdemeanor and upon conviction thereof shall be punished as provided in Chapter 1.12 of the City of Cupertino Municipal Code.

paragraph D, states*:

Unless otherwise specified by this code, an infraction is

Chapter 1.12: General Penalty, Section 1.12.010,

A fine not to exceed \$100 for a first violation A fine not to exceed \$200 for a second violation A fine not to exceed \$500 for a third violation of the same chapter within one year.

9.18.240 Civil penalty for illicit discharges* Any person who discharges pollutants, in violation of this Chapter, by the use of illicit connections shall be civilly liable to the City in a sum not to exceed twenty-five thousand dollars per day per violation for each day in which such violation occurs.

*Excerpts – For complete CODE language refer to the City of Cupertino Municipal Code.

> **Building Dept:** 408-777-3228 Public Works Dept:

anta Clara County Recycling Hotline www.reducewaste.org www.recyclestuff.com Small Business Hazardous Waste:

upertino Sanitary Sewer Distr

anta Clara Valley Urban Runoff Pollution Prevention Prgm 800-794-2482

State Office of Emergency Services 1-800-852-7550 (24 hrs) Report spills to 911

General Construction and Site Supervision

Storm Drain Pollution from Construction Activities

enstruction sites are common sources of storm water pollution. Materials and wastes that blow of wash into a storm drain, gutter, or street have a direct impact on local creeks and the Bay. As a contractor, or site supervisor, owner or operator of a site, you may be responsible for any environmental damage caused by your subcontractors or employees.

General Principles

☐ Keep an **orderly site** and ensure good ousekeeping practices are used Maintain equipment properly

 Cover materials when they are not in use. Keep materials away from streets, storm drains and drainage channels. Ensure dust control water doesn't leave site

or discharge to storm drains.

Control Board, as a reference.

Advance Planning To Prevent Pollution Schedule ex cavation and grading activities for dry weather periods. To reduce so i erosion, plant temporary vegetation or place other erosion controls before rain begins. Use the Erosion and Sediment Control Manual, vailable from the Regional Water Quality

Control the amount of runoff crossing you site (especially during excavation!) by using demis or temporary or permanent drainage ditches to divert water flow around the site Reduce stormwater run off velocities by constructing temporary check dams or berms where appropriate

Train your employees and subcontractors. he city can provide brochures about these issues for you to distribute to workers at you onstruction site. Inform your subcontractor about the stormwater requirements and the own responsibilities. Use Blueprint for a Clean Bay, a construction best management ractices guide available at our Building Dept. counter.

Painting and

Application of

Solvents and

Adhesives

Storm Drain Pollution from Paints,

Solvents, and Adhesives

All paints, solvents, and adhesives contain

chemicals that are harmful to wildlife in local

creeks. San Francisco Bay, and the Pacific Ocean

Toxic chemicals may come from liquid or solid

products or from cleaning residues or rags. Paint

material and wastes, adhesives and cleaning fluids

should be recycled when possible, or disposed of

properly to prevent these materials from flowing

☐ Keep all liquid paint products and wastes

Never clean brushes or rinse paint

away from the gutter, street, and storm

containers into a street, gutter, storm drain

For water-based paints, paint out brushes to

the extent possible, and rinse into an inside

sink drain that goes to the sanitary sewer.

☐ For oil-based paints, paint out brushes to the

extent possible and clean with thinner or

esidue as hazardous waste.

solvent. Filter and reuse thinners and solvents

where possible. Dispose of excess liquids and

When thoroughly dry, empty paint cans, used

brushes, rags, and drop doths may be

into storm drains and watercourses.

Handling Paint Products

Painting Cleanup

French drain, or creek

Good House keeping Practices

 Designate one area of the site for auto parking, ve hicle refueling, and routine equipment maintenance. The designated are a should be well away from streams or storm drain inlets, bermed it necessary. Make major repairs off site.

entrances with stabilized aggregate surfaces. Or provide a tire wash area. Keep materials out of the rain – prevent runoff ntamination at the source. Cover exposed piles of soil or construction materials with plastic sheeting or temporary roofs. Before it rains, sweep and remove materials from surfaces that drain to

☐ To prevent off-site tracking of dirt, provide

storm drains, creeks, or channels. Contain all litter, food wrappers, bottles and cans - Place lidded trash and recycling bins around the site.

Clean up leaks, drips and other spills immediately so they do not contaminate soil or oundwater or leave residue on paved surfaces Use dry cleanup methods whenever possible. If you must use water, use just enough to keep the

plastic sheeting secured around the outside of the umpster. Never clean out a dumpster by hosing down on the construction site. Place portable toilets away from storm drains.

Make sure portable toilets are in good working

degreasers, cleared vegetation, paper, rock, and

vehicle maintenance materials such as used oil

Cover and maintain dumpsters. Place

order. Check frequently for leaks. Materials/Waste Handling ☐ Practice Source Reduction -- minimize waste when you order materials. Estimate carefully. Recycle excess materials, whenever possible, such as concrete, asphalt, scrap metal, solvents

☐ Dispose of all wastes properly. Materials that cannot be recycled must be taken to an appropriate landfill or disposed of as hazardous waste. Never bury waste materials or leave then in the street or near a creek or stream bed.

antifreeze, batteries, and tires:

acre as of Mar. 2003.)

In addition to local grading and building permits, you will need to obtain coverage under the State's General Construction Activity Stormwater Permit if your construction site's disturbed area totals 5 acres or more. Information on the General Permi can be obtained from the Regional Water Quality

dry stripping and sand blasting may b

☐ Chemical paint stripping residue, and chips

be disposed of as hazardous wastes. Lead

☐ When stripping or cleaning building exteriors

with high-pressure water, block storm drains.

into soil Or check with Cupertino Sanitary

washwater and dispose of it in a sanitary

constructed before 1978 can contain high

amounts of Lead, even if paint chips are no

present. Before you begin stripping paint or

under high pressure, test paint for lead by

aking paint scrapings to a local laboratory

(See Yellow Pages for a state-certified

If there is loose paint on the building, or if the

paint tests positive for lead, block storm

to the sanitary sewer, or if you must send it

offsite for disposal as hazardous waste.

Paint Disposal, Return or Donation

Dispose of unwanted liquid paint, thinners,

Hazardous Waste Prgm. 299-7300).

solvents, glues, and deaning fluids as

hazardous waste (call the Small Business

Or Return to supplier (Unopened cans of paint

may be able to be returned. Check with the

Donate excess paint (call 299-7300 to donate.)

vendor regarding its "buy-back" policy.)

drains. Check with Cupertino Sanitary District

to determine whether you may discharge water

cleaning pre-1978 building exteriors with water

☐ Washwater from painted buildings

Direct washwater onto a dirt area and spade

District to find out if you can mop or vacuum the

sewer drain. Sampling of the washwater may

based paint removal requires a state-certified

and dust from marine paints, or paints

disposed of as trash.

be required.

swept up or collected in plastic drop cloths and

containing lead, mercury or tributyl tin must

Landscaping, Gardening, and Pool

Swimming Pool Maintenance Many landscaping activities expose soils and increase the likelihood that earth and garden chemicals will run off into the storm drains during

toxic to aquatic life.

ordinance.

Draining pools or spas

Pool/Fountain/Spa Maintenance

When it's time to drain a pool, spa, or fountain

please be sure to call the Cupertino Sanitary

District before you start for further quidance o

flow rate restrictions, backflow prevention, and

handling special cleaning waste (such as acid

levels typically possible through a garden hose.

Higher flow rates may be prohibited by local

☐ Never discharge pool or spa water to a

street or storm drain; discharge to a

If possible, when emptying a pool or spa, let

Do not use copper-based algaecides

Control algae with chlorine or other

alternatives, such as sodium bromide

Never clean a filter in the street or near a

diatomaceous earth filters onto a dirt area.

and spade filter residue into soil. Dispose o

spent diatomaceous earth in the garbage

discharging filter backwash or rinsewater to

stom drain. Rinse cartridge and

☐ If there is no suitable dirt area, call

the sanitary sewer.

Cupertino Sanitary for instructions on

onto a landscaped area.

Filter Cleaning

chlorine dissipate for a few days and then

recycle/reuse water by draining it gradually

wash). Discharge flows should be kept to the low

Maintenance irrigation or when it rains. Swimming pool water containing chlorine and copper-based algaecides should never be discharged to storm drains. These chemicals are

Lands caping/Garden Maintenance Protect stockpiles and landscaping materials from wind and rain by storing them under

Schedule grading and excavation projects during dry weather. Use temporary check dams or ditches to

tarps or secured plastic sheeting.

divert runoff away from storm drains. ☐ Protect storm drains with sandbags, gravel filled bags, straw wattles, or other sediment

Re-vegetation is an excellent form of erosion ☐ Store pesticides, fertilizers, and other chemicals indoors or in a shed or storage

Use pesticides sparingly, according to instructions on the label. Rinse empty containers, and use rinsewater as produc Dispose of rinsed, empty containers in the trash. Dispose of unused pesticides as hazardous waste

☐ In Cupertino, residents with curbside recycling can collect lawn, garden and tree trimmings i yardwaste toters. Yardwaste will be collected and composted by the city's contractors. Residents are encouraged to compost yardwaste on-site themselves. Or take yard waste to a land fill where it will be

take clippings and pruning waste to a landfill that composts yard waste (BFI's Newby Island and Zanker Rd. landfill are the nearest)

☐ Landscape contractors should

Do not blow or rake leaves into

The property owner and the contractor share ultimate responsibility for

the activities that occur on a construction site. You may be held responsible

for any environmental damage caused by your subcontractors or employees.

Roadwork

Paving

Develop and implement erosion/sediment

control plans for roadway embankments.

Schedule excavation and grading work during

designated areas in your maintenance yard.

maintenance must be done on site, designate a

location away from storm drains and creeks.

etc. whenever possible, or dispose of properly

Avoid creating excess dust when breaking asphalt

remove all chunks and pieces. Make sure

broken pavement does not come in contact

☐ When making saw cuts, use as little water as

Sweep, never hose down streets to clean up

tracked dirt. Use a street sweeper or vacuum

truck. Do not dump vacuumed liquor in storm

properly dispose of, all residues.

possible. Shovel or vacuum saw-cut slurry and

drain inlets during saw-cutting. Sweep up, and

After breaking up old pavement, be sure to

where cleanup is easier. Avoid performing

equipment repairs at construction sites.

When **refueling** or when vehicle /e quipment

Do not use diesel oil to lubricate equipment

(www.recyclestuff.com for list of recycling

Recycle used oil, concrete, broken a sphalt,

parts or clean equipment.

Asphalt/Concrete Removal

Check for and repair leaking equipment.

Perform major equipment repairs at

General Business Practices

dry weather.

companies.)

or concrete.

with rainfall or runoff

Storm Drain Pollution from Landscaping and

Storm Drain Pollution from Earth-Moving Activities

Earth-Moving

Activities

Soil excavation and grading operations loosen large amounts of soil that can flow or blow into storm crains when handled improperly. Sediments in runoff can clog storm drains, smother aquatic life, and cestroy habitats in creeks and the Bay. Effective erosion control practices reduce the amount of runoff crossing a site and slow the flow with check dams or roughened ground surfaces.

Practices During Construction

Remove existing vegetation only when absolutely necessary. Plant temporary vegetation for erosion control on slopes or where construction is not immediately planned.

Protect downslope drainage courses, streams, and storm drains with wattles, or temporary drainage swales. Use check dams or ditches to divert runoff around excavations. Refer to the Regional Water Quality Control Board's Erosion and Sediment Control Field Manual for proper erosion and sediment control

☐ Cover stockpiles and excavated soil with secured tarps or plastic sheeting.



Dewatering Operations

Storm Drain Pollution From Dewatering Activities

Be sure to call your city's storm water inspector at 408-472-9907 before discharging water to a street, gutter, or storm drain. Filtration or diversion through a basin, tank, and sediment trap may be required. Reuse water for dust control, irrigation or another on-site purpose to the greatest extent possible

Check for Sediment or Toxic Pollutants

Check for odors, discoloration, or an oily sheen on ground water.

Ask your city inspector whether the groundwater must be tested by a certified

Depending on the test results, you may be allowed to discharge pumped groundwater to the storm drain OR you may be required to discharge to the sanitary sewer or collect and haul the water off-site for treatment and disposal at an appropriate treatment facility.

☐ When discharging to a storm drain, protect the inlet using a barrier of burlap bags filled with drain rock, or cover inlet with filter fabric anchored under the grate.

☐ Contact Cupertino Sanitary District at 253-7071 prior to discharging to the sanitary sewer.

Heavy Equipment Operation

Storm water Pollution from Heavy Equipment on Construction Sites Poorly maintained vehicles and heavy equipment that leak fuel, oil, antifreeze o other fluids on the construction site are common sources of storm drain pollution Prevent spills and leaks by isolating equipment from runoff channels, and by watching for leaks and other maintenance problems. Remove construction equipment from the site as soon as possible.

Site Planning and Preventive Vehicle Maintenance

■ Designate one area of the construction site, well away from stream s or storm drain inlets, for auto vehicle and equipment maintenance. Contain

Maintain all vehicles and heavy equipment

☐ Perform major maintenance, repair jobs, and vehicle and equipment washing off-site, where

☐ If you must drain and replace motoroil, radiato coolant or other fluids on site use drip pans or drop cloths to catch drips and spills. Collect properly dispose as hazardous waste (recycle

☐ Do not use diesel oil to lubricate equipment any onsite cleaning.

Cover exposed fifth wheel hitches and other oily or greasy equipment during rain events.

Spill Cleanup

☐ Clean up spills im mediately.

■ Neverhose down "dirty" pavement or permeable surfaces where fluids have spilled materials; cat litter, and/or rags) whenever possible and properly dispose of absorben

Sweep up spilled dry materials immediately.

Use as little water as possible for dust control.

discharge to storm drains. Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.

If the spill poses a significant hazard to

State Office of Emergency Services.

environment, you must also report it to the

Removal of BMP Facilities The Project Contractor is responsible

for removal of all BMP Facilities located within the Public Right of Way upon project final inspection.

Fresh Concrete

are toxic to fish and the aquatic

weather, or when rain is forecast, to prevent fresh materials from contacting stormwater is prohibited by law. ☐ Cover and seal catch basins and manholes when applying seal coat, slurry seal, fog seal,

or similar materials. Protect drainage ways by using earth dikes, sand bags, or other controls to divert or trap and filter runoff

Storm Drain Pollution

from Roadwork

Road paving, surfacing, and pavement removal

excavated material to illegally enter storm drains

Extra planning is required to store and dispose of

materials properly and guard against pollution of

☐ Avoid paving and seal coating in wet

opportunities for a sphalt, saw-cut slurry, or

storm drains, creeks, and the Bay

During Construction

Never wash excess material from exposedaggregate concrete or similar treatments into a street or storm drain. Collect and recycle, or dispose to dirt area.

☐ Cover stockpiles (asphalt, sand, etc.) and other construction materials with plastic tarps Protect from rainfall and prevent runoff with temporary roofs or plastic sheets and berms ☐ Park paving machines over drip pans or

absorbent material (cloth, rags, etc.) to catch drips when not in use. Clean up all spills and leaks using "dry" methods (with absorbent materials and/or

of contaminated soil. Ocllect and recycle or appropriately dispose of excess abrasive gravel or sand. ???

rags), or dig up, remove, and properly dispose

☐ Avoid over-application by water trucks for dust

and Mortar Application

Storm Drain Pollution from Fresh Concrete and Mortar Applications

Fresh concrete and cement-related mortars that wash into lakes, streams, or estuaries environment. Disposing of these materials to the storm drains or creeks can block storm drains, causes serious problems, and

General Business Practices

☐ Wash out concrete mixers only in designated washout areas in your yard, away from storm drains and waterways, where the water will flow into a temporary waste pit in a dirt area. Let water percolate through soil and dispose of settled, hardened concrete as garbage. Whenever possible, recycle washout by

pumping back into mixers for reuse. Wash out chutes onto dirt areas that do not flow to streets or drains.

Always store both dry and wet materials under cover, protected from rainfall and runof and away from storm drains or waterways. Protect dry materials from wind. Secure bags of cement after they are open.

away from streets, gutters, storm drains, rainfall, and runoff ☐ Do not use diesel fuel as a lubricant on

concrete forms, tools, or trailers

Be sure to keep wind-blown cement powder

During Construction

Don't mix up more fresh concrete or cement than you will use in a two-hour period.

Set up and operate small mixers on tarps or ☐ When cleaning up after driveway or sidewalk struction, wash fines onto dirt areas, no

down the drive way or into the street or storm ☐ Protect applications of fresh concrete and

mortar from rainfall and runoff until the material has dried. ☐ Wash down exposed aggregate concrete only when the washwater can (1) flow onto a dirt area. (2) drain onto a bermed surface from which it can be pumped and disposed of properly, or (3) be vacuumed from a catchmer

Make sure run off does not reach gutters or When breaking up pavement, be sure to pick up all the pieces and dispose of properly. Recycle large chunks of broken concrete. See

created by blocking a storm drain inlet. If

necessary, divert runoff with temporary berms

www.reducewaste.org for info on recyclers. ☐ Never bury waste material. Dispose of small amounts of excess dry concrete, grout, and

mortar in the trash. ☐ Never dispose of washout into the street. storm drains, drainage ditches, or streams.



Small Business **Hazardous Waste**

Disposal Prgm Businesses that generate less than 27 gallons or 220 pounds of hazardous waste per month are eligible to use this program Call 408-299-7300

for a quote.





UPDATED SEPTEMBER 2016

SHEET:

SHEETS

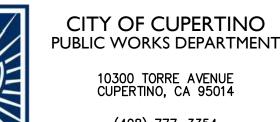
BMITTAL الح 100 مر 100 - NOT FOR CONSTRUCTION

BKF ENGINEERS 255 SHORELINE DRIVE SUITE 200 (650) 482-6300 www.bkf.com

DATE: FEBRUARY 10, 2023 SCALE: NO SCALE DESIGNED: DRAWN: ΑD RMCHECKED PROJ. ENGR: SP DESIGN|DESIGN| CITY |APPR **REVISIONS** BY | DATE | APPR. | DATE FILE:







IMPROVEMENT PLANS FOR

PUMPKIN-FIESTA STORM DRAIN PROJECT CITY OF CUPERTINO, SANTA CLARA COUNTY, CALIFORNIA

CITY OF CUPERTINO

DEPARTMENT OF PUBLIC WORKS

PROJECT # 2022-01 PUBLIC WORKS INSPECTOR:

FOR CITY OF CUPERTINO USE

VOICE MAIL:

CITY OF **CUPERTINO**

SHEET 15 OF 15

C4.0

REDWOOD CITY, CA 94065

IMM BORDEN, RCE 45512

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