

CITY OF SAN LUIS OBISPO

PROJECT PLANS FOR

CALIFORNIA BOULEVARD & TAFT STREET WATER MAIN REPLACEMENT

basis of bearings:

THE BASIS OF BEARINGS FOR THIS PROJECT IS BETWEEN TWO FOUND CITY GPS MONUMENTS AS FOLLOWS:

CITY MONUMENT # 8002 2303484.026 5768197.242
(BRASS PIN AT MONUMENT WELL AT CENTERLINE OF FREDERICKS AND KENTUCKY STREETS)

CITY MONUMENT # 8008 2301444.490 5769134.496
(BRASS PIN IN WELL AT THE CENTERLINE INTERSECTION OF CALIFORNIA AND MILL STREETS)

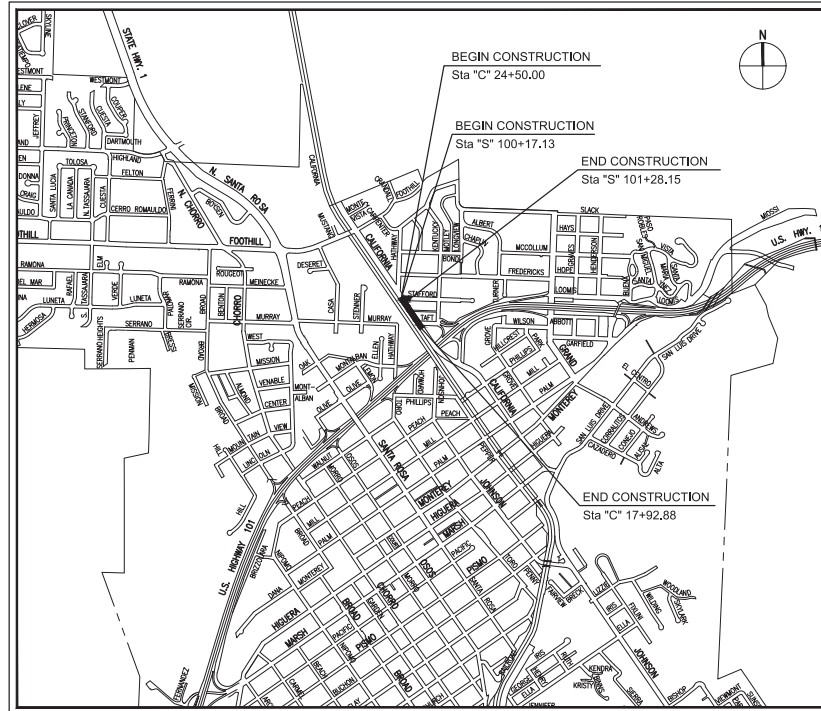
BEARING S 24° 40' 51" E 2244.59' MEAS. & CITY RECORDS

BEARINGS AND DISTANCES ARE ON STATE PLANE GRID, ZONE 0405

basis of elevations:

THE BENCH MARK FOR THIS PROJECT IS A LEAD & TACK 24" SOUTH OF CATCH BASIN IN THE CURB RETURN AT THE SOUTH EAST CORNER OF CALIFORNIA BLVD AND TAFT STREET.

VERTICAL CONTROL BENCHMARK NO. 234 WITH AN ELEVATION OF 263.16 AS PUBLISHED IN THE CITY OF SAN LUIS OBISPO 2007 BENCH MARK SYSTEM, CITY'S BENCH MARK SYSTEM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



PROJECT LOCATION MAP
1"=1000'



VICINITY MAP
N.T.S.

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1	T1	COVER SHEET
2-3	GN1-GN2	GENERAL NOTES
4	W1	CALIFORNIA BLVD - STA. 20+00 TO 24+50±
5	W2	CALIFORNIA BLVD - STA. 17+93± TO 20+00
6	W3	STAFFORD ST - STA. 100+17± TO 101+28±
		CIVIL DETAILS 1

Reference Documents:
City Standard Specifications - August 2020 Edition
City Engineering Standards - August 2020 Edition



san luis obispo county, california

CALIFORNIA BOULEVARD & TAFT STREET WATER MAIN REPLACEMENT

SPECIFICATION NO. 2000545

APPROVED BY

Brian Nelson
City Engineer

DATE
06/28/2024
FILE NO./LOCATION
2251T001
SHEET
1 OF 6



Know what's below.
Call before you dig.

Contractor shall call
Underground Service Alert at
811 two working days prior
to excavation



90% SUBMITTAL
PRELIMINARY, NOT
FOR CONSTRUCTION



T1

GENERAL NOTES

- 1. UTILITY INFORMATION AND OBSTRUCTIONS SHOWN ON THE PROJECT PLANS AND PROVIDED IN THE SPECIFICATION ARE ONLY INFORMATIONAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES WITHIN THE WORK AREA PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (U.S.A.) AT 800-227-2600 A MINIMUM OF TWO WORKING DAYS IN ADVANCE OF ANY EXCAVATION. EXCAVATION SHALL NOT BEGIN UNTIL UNDERGROUND UTILITIES HAVE BEEN LOCATED.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SECURE ALL PERMITS NECESSARY TO PERFORM THE WORK, INCLUDING BUT NOT LIMITED TO WORK IN THE PUBLIC RIGHT-OF-WAY, GRADING, TREE REMOVAL, UTILITY MODIFICATIONS.
3. CONTRACTOR SHALL SUPPLY ALL EQUIPMENT, LABOR, AND MATERIALS NECESSARY TO PERFORM THE WORK SHOWN ON THESE PLANS.
4. IT SHALL BE THE RESPONSIBILITY OF THE VARIOUS CONTRACTORS TO COORDINATE THEIR WORK SO AS TO ELIMINATE CONFLICTS AND WORK TOWARD THE GENERAL GOOD AND COMPLETION OF THE ENTIRE PROJECT.
5. ALL WORKMANSHIP AND MATERIALS FURNISHED BY THE CONTRACTOR SHALL BE THE KIND AND QUALITY DESCRIBED IN THE SPECIFICATIONS AND SHALL BE FIRST CLASS THROUGHOUT. NEITHER FINAL ACCEPTANCE NOR FINAL PAYMENT BY OWNER SHALL RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR FAULTY MATERIALS OR WORKMANSHIP ON THIS PROJECT EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
6. IN THE EVENT OF ANY CONFLICT OF INFORMATION SHOWN ON THESE PLANS OF ANY CONFLICT BETWEEN THESE PLANS AND THE INTENT OF A CONSISTENT AND FUNCTIONAL PRODUCT, THE CONTRACTOR SHALL SO NOTIFY THE OWNER IN WRITING, UPON WHICH NOTICE THE OWNER SHALL RESOLVE THE CONFLICTS BY THE ISSUANCE OF A WRITTEN ORDER, REVISED PLANS OR BOTH, THE CONTRACTOR SHALL BEAR FULL COST AND RESPONSIBILITY FOR WORK AFFECTED BY SUCH CONFLICTS AND PERFORMED BY CONTRACTOR PRIOR TO SUCH NOTICE TO THE OWNER AND ISSUANCE OF SUCH ORDER AND/OR REVISED PLANS.
7. CONTRACTOR SHALL EXERCISE ALL NECESSARY CAUTION TO AVOID DAMAGE TO ANY EXISTING TREES, OR SURFACE IMPROVEMENTS OR TO ANY EXISTING DRAINAGE STRUCTURE, WATER STRUCTURE, SEWER CLEANOUTS, MANHOLES, OR JUNCTION BOXES FOR UNDERGROUND ELECTRIC, GAS, TELEPHONE, CABLE TV, STORM, SANITARY, WATER, OR OTHER UTILITIES WHICH ARE TO REMAIN IN PLACE AND SHALL BEAR FULL RESPONSIBILITY FOR ANY DAMAGE THERETO.
8. ALL KNOWN EXISTING UTILITY LINES ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL EXERCISE ALL NECESSARY CAUTION TO AVOID DAMAGE TO ANY EXISTING UTILITY LINES OR FACILITIES TO REMAIN IN PLACE, WHETHER OR NOT SUCH FACILITIES APPEAR ON THESE PLANS, AND SHALL BEAR FULL RESPONSIBILITY FOR ANY DAMAGE THERETO.
9. CONTRACTOR SHALL CONTACT BOTH UNDERGROUND SERVICE ALERT (800-227-2600) AND THE AFFECTED UTILITY COMPANY PRIOR TO STARTING WORK TO REQUEST AND OBTAIN THE MARKING OF EXISTING UNDERGROUND FACILITIES.
10. CONTRACTOR SHALL HIRE A LICENSED LAND SURVEYOR TO PROVIDE CONSTRUCTION STAKING IN ORDER TO ENSURE THE PROJECT IS CONSTRUCTED TO THE LINES AND GRADES INDICATED ON THIS PLAN.
11. INSPECTION OF WORK: CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF REQUIRED INSPECTIONS WITH THE APPROPRIATE AGENCIES AND UTILITY COMPANIES.
12. ENGINEER SHALL BEAR NO RESPONSIBILITY FOR METHODS AND PROCEDURES OF WORK ESTABLISHED BY CONTRACTOR, JOBSITE CONDITIONS, JOBSITE SAFETY OR CONFORMANCE WITH SAFETY PROCEDURES AND REQUIREMENTS.
13. IN CONFORMANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS BOTH THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
14. THE CONTRACTOR SHALL HAVE COPIES OF THE PLANS AND SPECIFICATIONS FOR THIS PROJECT ON SITE AT ALL TIMES. THE CONTRACTOR SHALL MAINTAIN A CURRENT, COMPLETE, AND ACCURATE RECORD OF ALL CHANGES WHICH DEVIATE FROM THE CONSTRUCTION AS PROPOSED IN THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE AS-BUILT INFORMATION AS TO THE EXACT LOCATION BY THE CENTERLINE STATION AND MANHOLE DEPTH OF ALL WATER FACILITY APPURTENANCES: PIPE, VALVES, TEES, MARKERS, AND OTHER FEATURES FOR THE PURPOSE OF PROVIDING THE ENGINEER WITH A BASIS FOR RECORD DRAWINGS. NO CHANGES SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE CITY ENGINEERING DEPARTMENT.
15. THE CONTRACTOR SHALL PRACTICE SAFETY AT ALL TIMES AND SHALL FURNISH, ERECT, AND MAINTAIN SUCH FENCES, BARRICADES, DETOURS, FLAGMAN, LIGHTS, AND SIGNS AS NECESSARY TO GIVE PROTECTION TO THE PUBLIC AT ALL TIMES.
16. ALL UNSUITABLE MATERIALS INCLUDING ALL NATIVE AND BASE MATERIAL RESULTING FROM ANY EXCAVATION THAT CANNOT BE USED TO CONSTRUCT SHALL BE REMOVED FROM THE PROJECT AND BE PLACED AT A SUITABLE DISPOSAL SITE.
17. THE CONTRACTOR SHALL INSPECT THE PROJECT SITE PRIOR TO SUBMITTING A BID IN ORDER TO OBSERVE AND DETERMINE THE EXISTING SITE CONDITIONS.
18. TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. ALL TRAFFIC CONTROL AND DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE WORK ZONES" USED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION AND CITY ENGINEERING STANDARDS, APPENDIX G.
19. THE CONTRACTOR SHALL PROVIDE FOR CONTINUOUS INGRESS AND EGRESS TO ALL PUBLIC AND PRIVATE PROPERTIES ADJACENT TO THE WORK THROUGHOUT THE PERIOD OF CONSTRUCTION.
20. THE FINAL ADJUSTMENT TO FINISH GRADE OF ALL MANHOLES, VALVE COVERS, AND SURVEY MONUMENTS SHALL BE MADE FOLLOWING PLACEMENT OF ASPHALT CONCRETE FINAL LIFT.
21. THE CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF CAL/OSHA. THIS REQUIREMENT IS NOT LIMITED TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
22. THE CONTRACTOR SHALL POSSESS A VALID CLASS A OR CB CONTRACTORS LICENSE AT THE TIME OF BID OPENING.

- 23. ALL WORK LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY OR WITHIN THE JURISDICTION OF THE UTILITIES AND PUBLIC WORKS DEPARTMENTS SHALL COMPLY WITH THE MOST CURRENT EDITION OF THE ENGINEERING STANDARDS AND STANDARD SPECIFICATION.
24. AN ENCROACHMENT PERMIT IS REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY OR WITHIN CITY EASEMENTS FOR CONNECTIONS TO PUBLIC UTILITIES. WORK REQUIRING AN ENCROACHMENT PERMIT INCLUDES BUT IS NOT LIMITED TO DEMOLITIONS, UTILITIES, WATER, SEWER, AND FIRE SERVICE LATERALS, CURB, GUTTER, AND SIDEWALK APPROACHES, SIDEWALK UNDERDRAINS, STORM DRAIN IMPROVEMENTS, STREET TREE PLANTING OR PRUNING, CURB RIMS, STREET PAVING, AND PEDESTRIAN PROTECTION OR CONSTRUCTION STAGING IN THE RIGHT-OF-WAY.
25. A TRAFFIC AND PEDESTRIAN CONTROL PLAN SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO ENCROACHMENT PERMIT ISSUANCE.
26. A CAL-OSHA PERMIT IS REQUIRED FOR EXCAVATION OR TRENCHING GREATER THAN 5 FEET IN DEPTH, A COPY OF THE ANNUAL, PROVISIONAL, OR TEMPORARY PERMIT SHALL BE PROVIDED TO THE BUILDING DIVISION PRIOR TO BUILDING, UTILITY, AND/OR GRADING GRADING PERMIT ISSUANCE IS APPLICABLE. ANY OSHA PERMIT EXEMPTION OR WAIVER SHALL BE PROCESSED ON A FORM PROVIDED BY THE BUILDINGS DIVISION.
27. ANY SECTIONS OF DAMAGED OR DISPLACED CURB, GUTTER AND SIDEWALK, OR DRIVEWAY APPROACH SHALL BE REQUIRED OR REPLACED TO THE SATISFACTION OF THE CITY OF SAN LUIS OBISPO.

GENERAL UTILITY NOTES

- 1. AN EFFORT HAS BEEN MADE TO DEFINE THE LOCATION OF UNDERGROUND FACILITIES WITHIN THE JOBSITE. HOWEVER, ALL EXISTING UTILITY AND OTHER UNDERGROUND STRUCTURES MAY NOT BE SHOWN ON THESE PLANS AND THEIR LOCATION WHERE SHOWN IS CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR LOCATING OR HAVING LOCATED ALL UNDERGROUND UTILITIES AND OTHER FACILITIES AND FOR PROTECTING THEM DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO MARK LOCATIONS AND SHALL POTENTIALLY ALL UTILITIES STAKING AND PRIOR TO ANY PIPELINE EXCAVATIONS TO ALLOW GRADE REVISIONS IF NECESSITATED BY ACTUAL LOCATIONS. THE CONTRACTOR SHALL NOTIFY AND CALL UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO WORK AT 811.
3. THE CONTRACTOR SHALL CONTACT THE FOLLOWING UTILITY COMPANIES AT LEAST 48 HOURS BEFORE BEGINNING EXCAVATION AND SHALL VERIFY WHETHER OR NOT A REPRESENTATIVE OF EACH COMPANY WILL BE PRESENT DURING EXCAVATION.
WATER, SEWER, STORM: CITY OF SAN LUIS OBISPO 805-781-7239
GAS SOCIAL GAS 805-781-2429
TELEPHONE: AT&T 659-454-3867
INTERNET: CHARTER COMMUNICATIONS 805-544-1962
ELECTRIC: PG&E 805-546-3867
RAILROADS: UPRR 916-789-5152
4. ALL STATIONING IS BASED ON CENTERLINE OF ROAD UNLESS OTHERWISE SHOWN ON PLANS.
5. DOMESTIC WATER SERVICE LATERALS AND METERS AND SEWER SERVICE LATERALS ARE SHOWN ON THE PLAN DRAWINGS. THE CONTRACTOR SHALL FOTHOE AND VERIFY THE LOCATION OF THESE UTILITIES AND CONSTRUCT THE NEW IMPROVEMENTS WHILE MAINTAINING SERVICE AT ALL TIMES DURING CONSTRUCTION. DAMAGE CAUSED BY THE CONTRACTOR TO THESE SERVICES SHALL BE REPAIRED IMMEDIATELY AT THE SOLE EXPENSE OF THE CONTRACTOR.
6. PROFILES ARE DRAWN AT AN EXAGGERATED SCALE MAKING VERTICAL GRADE BREAKS APPEAR GREATER THAN ACTUAL. THE CONTRACTOR SHALL BE ALLOWED TO "DROP" THE PIPE NOTES AND CONNECTIONS IN ORDER TO MAINTAIN THE DESIRED GRADE CHANGES, PROVIDED BENDING RADIUS AND JOINT DEFLECTION DO NOT EXCEED THE PIPE MANUFACTURER'S RECOMMENDATIONS SHALL MEET THE REQUIREMENTS OF CITY OF SAN LUIS OBISPO'S STANDARDS AND SPECIFICATIONS SECTION 77-2.03A.
7. THE CONTRACTOR SHALL HAVE A COPY OF THE PROJECT SPECIFICATIONS AND THE CITY OF SAN LUIS OBISPO FIELD REPRESENTATIVE SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION OR ANY REQUIRED OBSERVATION.
8. CONTRACTOR SHALL MAINTAIN THE WORK AREA IN A NEAT, SAFE, CLEAN, AND SANITARY CONDITION AT ALL TIMES AND TO THE SATISFACTION OF THE AGENCY HAVING JURISDICTION OVER THE AREA. STREETS SHALL BE KEPT CLEAN OF DEBRIS, WITH DUST AND ODOR/DISANCE BEING CONTROLLED AT ALL TIMES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY CLEANUP ON ADJACENT STREETS AFFECTED BY HIS CONSTRUCTION.
9. ALL CONSTRUCTION ACTIVITY THAT DISRUPTS THE SMOOTH FLOW OF TRAFFIC OVER THE PUBLIC ROADS WILL REQUIRE A TRAFFIC CONTROL PLAN AS SPECIFIED IN THE PROJECT SPECIFICATIONS. TRAFFIC CONTROL SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE CURRENT "MANUAL OF WARNING SIGNS, LIGHTS, AND DEVICES FOR USE IN PERFORMANCE OF WORK UPON HIGHWAYS" ISSUED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION AND BE SUBMITTED 5 WORKING DAYS PRIOR FOR APPROVAL OF SLO TRANSPORTATION DEPARTMENT.
10. IN THE EVENT THAT EXISTING TRAFFIC STRIPING OR STENCILING IS OBLITERATED BY CONSTRUCTION, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE PER SECTION 84-2 OF THE SAID STRIPING OR STENCILING TO THE SATISFACTION OF THE AGENCY HAVE JURISDICTION OF OVER THE STREET. IF STENCILING OR LEGEND IS PARTIALLY OBLITERATED, THE ENTIRE STENCIL OR LEGEND SHALL BE REPLACED TO THE SATISFACTION OF THE CITY.
11. NO CONSTRUCTION SHALL BE STARTED WITHOUT PLANS AND/OR PERMITS APPROVED BY THE REGULATORY AGENCIES HAVING JURISDICTION OVER THE PROJECT WORK. ALL AGENCIES SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO STARTING CONSTRUCTION. ANY CONSTRUCTION DONE WITHOUT APPROVED PLANS AND/OR PERMITS AND/OR PRIOR NOTIFICATION WILL BE REJECTED AND WILL BE AT THE CONTRACTOR'S RISK AND EXPENSE.
12. ALL LANDSCAPING AND GRASSED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION PER THE PROJECT SPECIFICATIONS. ALL IRRIGATION LINES, SPRINKLERS, CONTROL WIRES, AND CONTROL BOXES THAT ARE DAMAGED SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY AND TO THE REGULATORY AGENCY PER THE PROJECT SPECIFICATIONS.
13. ALL P.C.C. AND A.C. PAVEMENT REMOVALS SHALL BE OUTLINED TO NECESSARY WORK LINES AND SHALL BE REMOVED TO ALL DEBRIS CAUSED BY THE REMOVAL OPERATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AWAY FROM THE JOB SITE IN A MANNER AND AT A LOCATION ACCEPTABLE TO ALL COJANIZANT AGENCIES.
14. THE CONTRACTOR SHALL COOPERATE WITH OTHER CONTRACTORS AND UTILITY

- COMPANIES PERFORMING OTHER CONSTRUCTION AND MAINTENANCE WORK IN THE AREA.
15. THE CONTRACTOR'S WORK SCHEDULE SHALL TAKE INTO ACCOUNT SCHEDULED RESTRICTIONS NECESSARY FOR THE SAFE HANDLING OF VEHICLE, BICYCLE, AND PEDESTRIAN TRAFFIC ADJACENT TO PROJECT.
16. COMPACTION TESTS SHALL BE DONE ON SUBGRADE MATERIAL AND MATERIAL PLACED AS SPECIFIED BY THE CITY, SAID TESTS SHALL BE COMPLETED BY A LICENSED SOILS ENGINEER AND APPROVED BY THE CITY PRIOR TO THE PLACING OF THE NEXT MATERIAL.
17. IN THE EVENT THAT THE CONTRACTOR NOTICES IRREGULARITIES IN THE LINE OR GRADE, HE SHALL BRING IT TO THE IMMEDIATE ATTENTION OF THE CITY AND DESIGN ENGINEER IN WRITING (RP). IF HE FAILS TO DO SO, THE CONTRACTORS SHALL BE RESPONSIBLE FOR ANY ERROR IN THE LINE AND GRADE AND NECESSARY RECONSTRUCTION TO CORRECT SUCH ERROR.
18. NEITHER THE CITY NOR THE ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS AS THE PERTAIN TO THE CONTRACTOR. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS.
19. THE CONTRACTOR SHALL FURNISH SUPPLIERS' CERTIFICATES OF COMPLIANCE STATING THAT ALL PIPE, FITTINGS, PROTECTIVE COATINGS, AND ALL OTHER MATERIALS COMPLY WITH THE SPECIFICATIONS AND REQUIREMENTS OF THE CONTRACT DOCUMENTS.
20. UNLESS OTHERWISE INDICATED ON THE PLANS, ALL NEW PIPE SHALL BE LAID IN AN OPEN TRENCH IN ACCORDANCE WITH CITY OF SAN LUIS OBISPO STANDARD DETAIL 6020 AND SECTION 77-2.03A.
21. THE CONTRACTOR SHALL NOT INTERRUPT THE UTILITY SERVICE FUNCTION, DISTURB THE SUPPORT BASE, OR MODIFY ANY FACILITY WITHOUT AUTHORITY FROM THE UTILITY OWNER OR THE CITY.
22. EXISTING PIPELINES/UTILITIES THAT CROSS THE PROPOSED WATER MAIN OR SIMILAR EXCAVATIONS REQUIRED TO CONSTRUCT THE PIPING, SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED. ALL EXISTING PIPELINES/UTILITIES SHALL BE SUPPORTED ACROSS THE EXCAVATION DURING CONSTRUCTION. IN ORDER TO PREVENT SETTLEMENT OF THE UTILITY AFTER INSTALLATION OF THE WATER PIPELINE SYSTEM, THE CONTRACTOR SHALL PLACE 1-3ACK SLURRY BETWEEN THE COMPACTED PIPE ZONE MATERIAL AND THE UTILITY.
23. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF THE DISCOVERY OF ANY UTILITY THAT WAS OMITTED FROM THE PLANS, INCORRECTLY SHOWN OR NOT PROPERLY MARKED. IF A UTILITY COMPANY DOES NOT PROVIDE LOCATION INFORMATION OR MARKING SERVICES IN THE FIELD, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER PER SECTION 4-1.06B OF THE CITY STANDARDS SHALL PROHIBIT THE CONTRACTOR FROM CLAIMING EXTRA WORK ASSOCIATED WITH SAID UTILITY.
24. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY AND UTILITY OWNER IF ANY UTILITY IS DISTURBED OR DAMAGED DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL BEAR THE COSTS OF REPAIR OR REPLACEMENT OF ANY MARKED UTILITY WHERE DAMAGE WAS CAUSED BY THE CONTRACTOR'S ACTIVITIES.
25. CONTRACTOR SHALL EXPOSE AND VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES, INCLUDING SANITARY AND STORM SEWERS, WATER, ELECTRIC, AND CABLES BEFORE CONSTRUCTING NEW FACILITIES. EXISTING UTILITIES ARE APPROXIMATE ONLY.
26. ALL TRENCH EXCAVATION AND BACKFILL FOR LINES SHALL CONFORM TO REQUIREMENTS OF THE CITY OF SAN LUIS OBISPO AND THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER.
27. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SECTIONS OF CALIFORNIA AND FEDERAL REQUIREMENTS OF THE CITY OF SAN LUIS OBISPO. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.
28. ALL CONSTRUCTION OF UTILITIES SHALL COMMENCE AT THE DOWNSTREAM CONNECTION AND RUN UPSTREAM. SHOULD THE CONTRACTOR DEVIATE FROM THIS STANDARD, ANY REVISIONS TO THE LINE DUE TO CONFLICTS OR UNFORESEEN CIRCUMSTANCES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
29. ALL NEW WATER MAINS SHALL MEET THE REQUIREMENTS OF CITY OF SAN LUIS OBISPO'S STANDARDS AND SPECIFICATIONS SECTION 77.
30. 8" WATER MAIN SHALL BE DR14 C900 POLYVINYL CHLORIDE (PVC) PIPE CONFORMING TO ASTM D1784. 24" WATER MAIN SHALL BE CLASS 350 DUCTILE IRON PIPE CONFORMING TO AWWA C151 (U.S. PIPE TR FLEX OR APPROVED EQUAL). ALL JOINTS SHALL BE RESTRAINED AND ALL PIPE SHALL CONFORM TO ANSI/NSF 61.
31. ALL PIPE TO DRAINAGE INLET FITTING CONNECTIONS SHALL BE EQUIPPED WITH RESTRAINTS (EBAA SERIES 2000PV MEAGALUG, OR APPROVED EQUAL).
32. ALL DUCTILE IRON FITTINGS SHALL BE MECHANICAL JOINT PER PLAN AND CONFORM TO ANSI/AWWA C110/A211-10, UNLESS OTHERWISE NOTED. ALL DUCTILE IRON FITTINGS SHALL BE RATED FOR A WORKING PRESSURE OF NO LESS THAN 350 PSI.
33. ALL NUTS AND BOLTS FOR FLANGES SHALL BE IN ACCORDANCE WITH AWWA C110-08.
34. ALL FLANGES ABUTTING DISSIMILAR METALS SHALL BE SEPARATED WITH A FLANGE INSULATION KIT.
GRADING AND PAVING NOTES
1. WORK SHALL CONSIST OF ALL CLEARING (INCLUDING TREE REMOVAL), SPRINGING, AND STRIPING. PREPARATION OF LAND TO BE FILLED, EXCAVATION, SPRINGING, COMPACTION AND CONTROL OF THE FILL, AND ALL SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING TO CONFORM TO THE LINES, GRADING AND SLOPES, AS SHOWN ON THE ACCEPTED PLANS AND TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER REVIEWING THE WORK.
2. CONTRACTOR IS RESPONSIBLE TO VERIFY THAT PERMITS ARE IN ORDER PRIOR TO STARTING WORK ON THE PROJECT. CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS THEREOF.
3. THE CONTRACTOR SHALL NOTIFY THE SOILS ENGINEER, AND THE CITY OF SAN LUIS OBISPO ENGINEER AND SHALL NOTIFY AT LEAST FORTY EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF ANY GRADING OPERATIONS ON-SITE.
4. CUT AND FILL SLOPES SHALL NOT EXCEED A GRADE OF 2 UNITS HORIZONTAL TO 1 UNIT VERTICAL, UNLESS OTHERWISE APPROVED BY THE PROJECT SOILS ENGINEER.

- 5. A REPRESENTATIVE OF THE SOILS ENGINEER SHALL BE ON SITE DURING GRADING OPERATIONS AND SHALL PERFORM SUCH TESTING AS DEEMED NECESSARY. THE REPRESENTATIVE SHALL OBSERVE THE GRADING OPERATION FOR CONDITIONS THAT SHOULD BE CORRECTED, AND IDENTIFY THOSE CONDITIONS WITH RECOMMENDED CORRECTIVE MEASURES TO THE CONTRACTOR.
6. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATION, THE SOILS ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
7. FILL SHOULD NOT CONTAIN ROCKS, COBBLE OR OTHER SOLID PARTICLES LARGER THAN 4 INCHES IN THE GREATEST DIMENSION OR HALF OF THE COMPACTED LAYER THICKNESS BEING USED BY THE CONTRACTOR.
8. ALL FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557, MODIFIED PROCTOR, IN LIFTS NOT EXCEEDING 12 INCHES IN DEPTH, UNLESS OTHERWISE SPECIFIED.
9. AREAS TO BE GRADED SHALL BE PREPARED TO RECEIVE FILL BY REMOVING VEGETATION, TOPSOIL, AND OTHER UNSUITABLE MATERIALS PRIOR TO OVER EXCAVATION AND SCARIFICATION TO THE DEPTHS SPECIFIED BY THE PROJECT SOILS ENGINEER.
10. ALL EXISTING TRASH, DEBRIS, ROOTS, TREE REMAINS AND OTHER RUBBISH SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF SO AS TO LEAVE THE AREAS THAT HAVE BEEN DISTURBED WITH A NEAT AND FINISHED APPEARANCE FREE FROM UNSIGHTLY DEBRIS. NO BURNING SHALL BE PERMITTED.
11. WHERE EXISTING GRADE IS AT A SLOPE STEEPER THAN 5 HORIZONTAL TO 1 VERTICAL (20 PERCENT) AND THE DEPTH OF THE FILL EXCEEDS 5 FEET, BENCHING SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS REPORT, AND A KEY SHALL BE PROVIDED WHICH IS AT LEAST 10 FEET IN WIDTH AND 2 FEET IN DEPTH, OR AS REQUIRED BY THE PROJECT SOILS ENGINEER.
12. ALL AGGREGATE BASE MATERIAL AND THE HANDLING AND PLACEMENT THEREOF SHALL BE IN ACCORDANCE WITH CITY OF SAN LUIS OBISPO STANDARD SPECIFICATIONS. AGGREGATE BASE MATERIALS SHALL BE CLASS II.
13. CONTRACTOR SHALL ADJUST ALL INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEANOUTS TO NEW FINISH GRADE.
14. MATERIALS HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF CITY OF SAN LUIS OBISPO STANDARD SPECIFICATIONS AND THESE PLANS AND DETAILS SHOWN HEREON.
15. CONCENTRATED DRAINAGE IS NOT ALLOWED ACROSS PUBLIC SIDEWALKS.
16. APCD APPROVAL REQUIRED PRIOR TO GRADING.

90% SUBMITTAL PRELIMINARY, NOT FOR CONSTRUCTION

GN1



CALIFORNIA BOULEVARD & TAFT STREET WATER MAIN REPLACEMENT

PROJECT TITLE SHEET TITLE



DESIGNED BY: PA/AL
DRAWN BY: NR
CHECKED BY: CR
APPROVED BY: JDW
SCALE: NO SCALE
DATE: 06/28/2024
CITY SPECIFICATION NO: 2000545
PLAN FILED IN LOCATION: 2251BDR_WTR.dwg
SHEET NO:

ABBREVIATIONS:

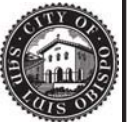
AC ASPHALT CONCRETE
 ABDN ABANDONED
 APN ASSESSOR'S PARCEL NUMBER
 ARV AIR RELEASE VALVE
 BC BEGIN CURVE
 BFV BUTTERFLY VALVE
 BLVD BOULEVARD
 BO BLOW OFF
 CI CAST IRON
 C/L CENTERLINE
 CMP CORRUGATED METAL PIPE
 CY CUBIC YARDS
 DEFL DEFLECTION
 DI DUCTILE IRON
 DR DIMENSION RATIO
 DWG DRAWING
 (E) EXISTING
 E EXISTING; ELECTRICAL; EAST
 EC END CURVE
 Elev ELEVATION
 FO FIBER OPTIC
 FT FOOT/FEET
 FH FIRE HYDRANT
 FL/FLG FLANGE
 GB GRADE BREAK
 GS GAS
 HDPE HIGH DENSITY POLYETHYLENE
 HORIZ HORIZONTAL
 INV INVERT
 IRR IRRIGATION
 LAT LATERAL
 LF LINEAR FEET
 LT LEFT
 MIL MILLIMETERS
 MIN MINIMUM
 MJ MECHANICAL JOINT
 (N) NEW
 N NORTHING; NORTH
 No. NUMBER
 OH OVERHEAD
 (P) PROPOSED
 PCC PORTLAND CEMENT CONCRETE
 P/L PROPERTY LINE
 PE POLYETHYLENE
 PVC PVC PIPE
 RT RIGHT
 R/W RIGHT-OF-WAY
 S SOUTH; SLOPE
 SD STORM DRAIN
 SF SQUARE FEET
 S;SS SANITARY SEWER
 ST STREET
 STA,Sta STATION
 STD STANDARD
 TYP TYPICAL
 TCE TEMPORARY CONSTRUCTION EASEMENT
 UPRR UNION PACIFIC RAILROAD
 VCP VITRIFIED CLAY PIPE
 VERT VERTICAL
 W WEST; WATER

APPLICABLE STANDARD PLANS:

CITY OF SAN LUIS OBISPO
 6010 UTILITIES LOCATION
 6020 TRENCH DETAIL #1 (PAVED OR UNPAVED STREETS)
 6050 UTILITY PIPELINE ABANDONMENT
 6110 WATER - SEWER - STORM (SEPARATION CRITERIA TEXT)
 6140A WATER - SEWER (SEPARATION CRITERIA DETAILS)
 6140B WATER - STORM (SEPARATION CRITERIA DETAILS)
 6210 WATER SERVICES (NEW & REPLACEMENT)
 6310 FIRE HYDRANT ASSEMBLY
 6330 WATERLINE TIE-IN
 6340 WATER VALVE & WELL
 6350 BLOW-OFF ASSEMBLY
 6360 AIR/VAC RELEASE VALVE ASSEMBLY

LEGEND:

----- EXISTING RIGHT OF WAY
 ----- EXISTING PROPERTY LINES
 ----- PROPOSED RIGHT OF WAY
 --- PROPOSED TCE
 --- e --- EXISTING ELECTRIC (UG)
 --- e(oh)--- EXISTING ELECTRIC (OH)
 --- fo --- EXISTING FIBER OPTIC
 --- s --- EXISTING SEWER
 --- sd --- EXISTING STORM DRAIN
 --- SD --- PROPOSED SD PIPE
 --- t --- EXISTING TELEPHONE (UG)
 --- t(oh)--- EXISTING TELEPHONE (OH)
 --- tv --- EXISTING TELEVISION (UG)
 --- tv(ph)--- EXISTING TELEVISION (OH)
 --- w --- EXISTING WATER
 --- w --- PROPOSED WATER
 --- g --- EXISTING GAS
 ■ EXISTING INLET
 ● EXISTING SDMH
 ■ PROPOSED INLET
 ● PROPOSED SDMH
 ○ UTILITY POLE
 ○ EXISTING STREET LIGHT
 ○ EXISTING STREET LIGHT
 ⊔ CENTERLINE



**CALIFORNIA BOULEVARD & TAFT STREET
 WATER MAIN REPLACEMENT**

GENERAL NOTES

PROJECT TITLE

SHEET TITLE



DESIGNED BY: PA/AL
 DRAWN BY: NR
 CHECKED BY: CR
 APPROVED BY: JDW
 SCALE: NO SCALE
 DATE: 06/28/2024
 CITY SPECIFICATION NO: 2000545
 PLAN FILE NO / LOCATION: 2251BDR_WTR.dwg
 SHEET NO:

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 PRELIMINARY, NOT
 FOR CONSTRUCTION

GN2



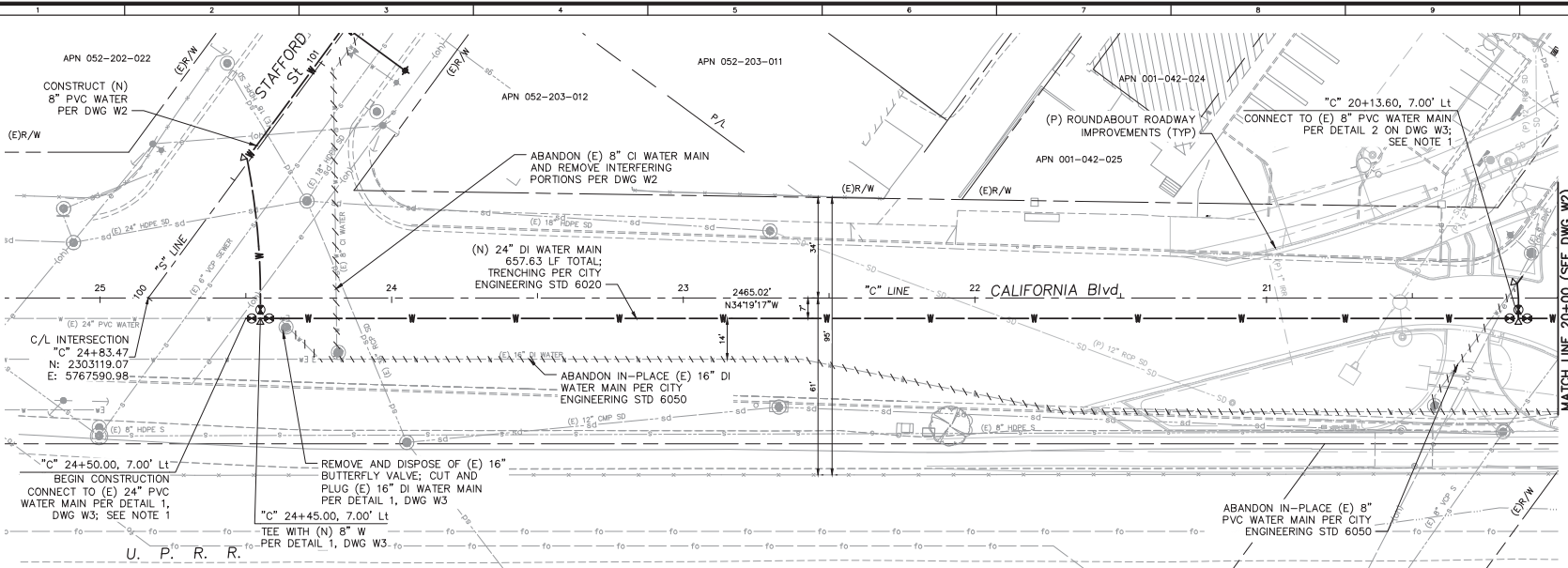
**CALIFORNIA BOULEVARD & TAFT STREET
WATER MAIN REPLACEMENT**
CALIFORNIA BLVD - STA. 20+00 TO 24+50±

PROJECT TITLE

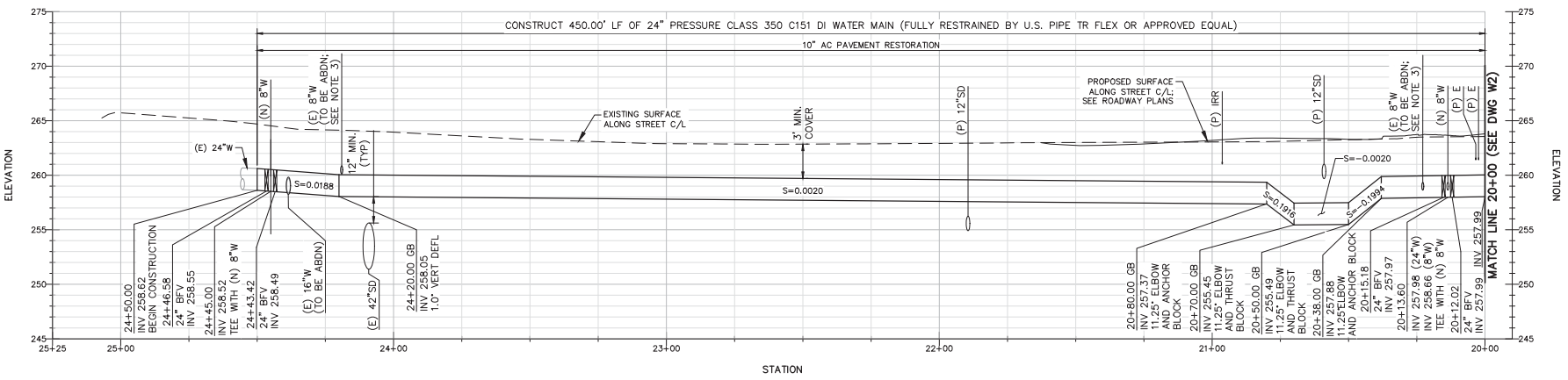


DESIGNED BY: PA/AL
DRAWN BY: AL
CHECKED BY: CR
APPROVED BY: JDW
SCALE: 1"=20'
DATE: 06/28/2024
CITY SPECIFICATION NO. 2000545
PLAN FILE NO. 2251W001.dwg
SHEET NO.

W1



PLAN VIEW - 24" DI WATER MAIN IN CALIFORNIA BLVD
SCALE: 1"=20'



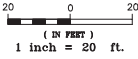
PROFILE VIEW - 24" DI WATER MAIN IN CALIFORNIA BLVD

HORIZ SCALE: 1"=20'
VERT SCALE: 1"=5'

NOTES:

- CONTRACTOR SHALL FIELD VERIFY LOCATION, DEPTH, MATERIAL, AND DIMENSIONS OF EXISTING WATER MAIN AND FITTINGS PRIOR TO CONSTRUCTION.
- THRUST BLOCK SHALL BE CLASS 1 PCC. MINIMUM THICKNESS OF BLOCK SHALL BE 12 INCHES. BEARING AREA SHALL BE 25 SF FOR THE 24-INCH MAIN AND 15 SF FOR THE 8-INCH MAIN. FLANGES AND BOLTS SHALL BE SHIELDED FROM THE PCC WITH 8-MIL MINIMUM POLYETHYLENE PLASTIC SHEET.
- CONTRACTOR SHALL INSTALL TEMPORARY BYPASS WATER MAIN AS NEEDED FOR (E) WATER MAIN CROSSINGS IN CONFLICT WITH THE (N) 24" WATER MAIN.
- PCC ANCHOR BLOCK PER DETAIL 1 ON DRAWING W4.
- PIPE DEFLECTION SHALL NOT EXCEED PIPE MANUFACTURER'S RECOMMENDATIONS.

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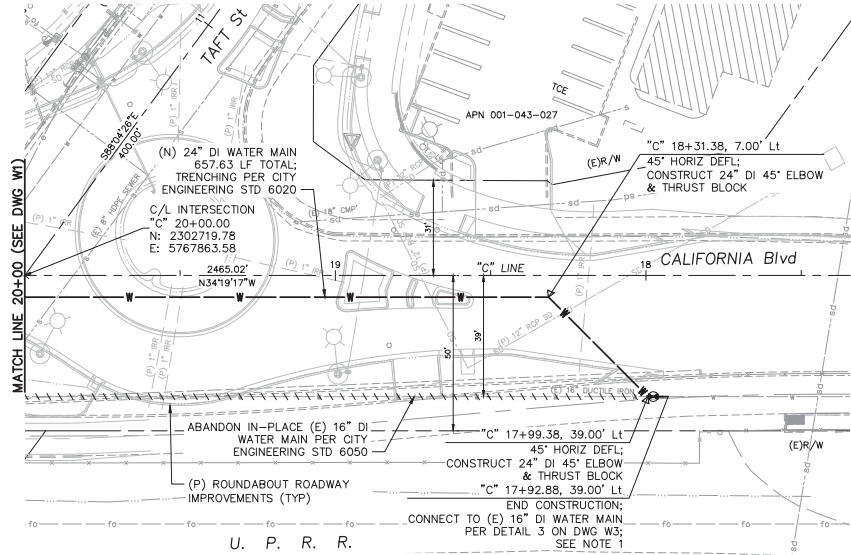
**CALIFORNIA BOULEVARD & TAFT STREET
WATER MAIN REPLACEMENT**

CALIFORNIA BLVD - STA. 17+99± TO 20+00;
STAFFORD ST - STA. 100+17± TO 101+28±

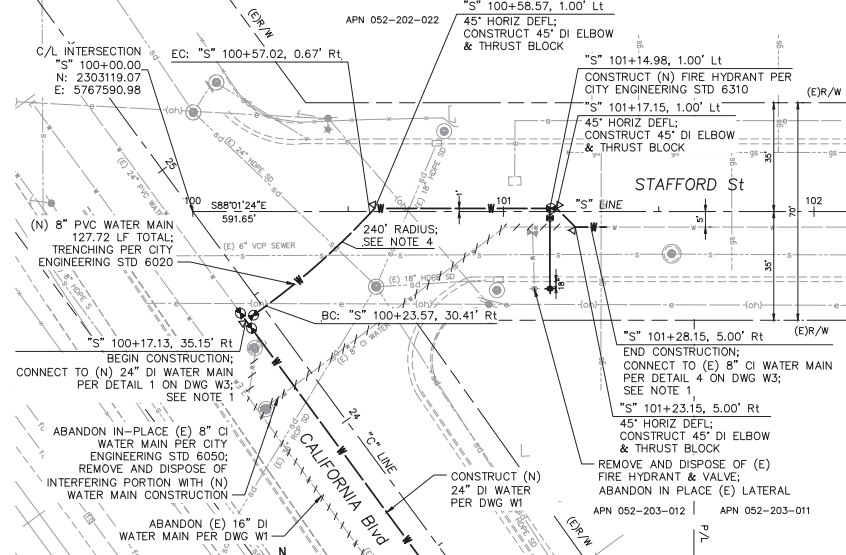
PROJECT TITLE
SHEET TITLE



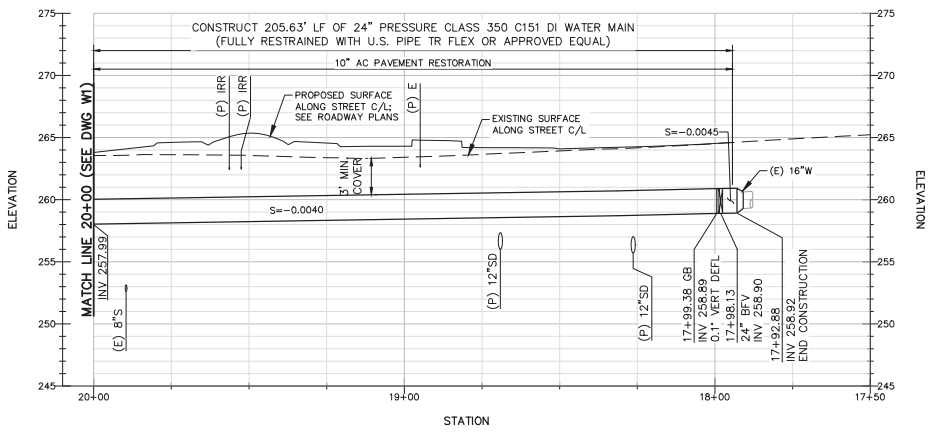
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DRAWN BY: AL
CHECKED BY: CR
APPROVED BY: JDW
SCALE: 1"=20'
DATE: 06/28/2024
CITY SPECIFICATION NO.: 2000545
PLAN FILE NO./DOCUMENT: 2251W002.dwg
SHEET NO.:



PLAN VIEW - 24" DI WATER MAIN IN CALIFORNIA BLVD
SCALE: 1"=20'

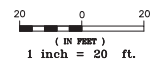


PLAN VIEW - 8" PVC WATER MAIN IN STAFFORD ST
SCALE: 1"=20'



PROFILE VIEW - 24" DI WATER MAIN IN CALIFORNIA BLVD

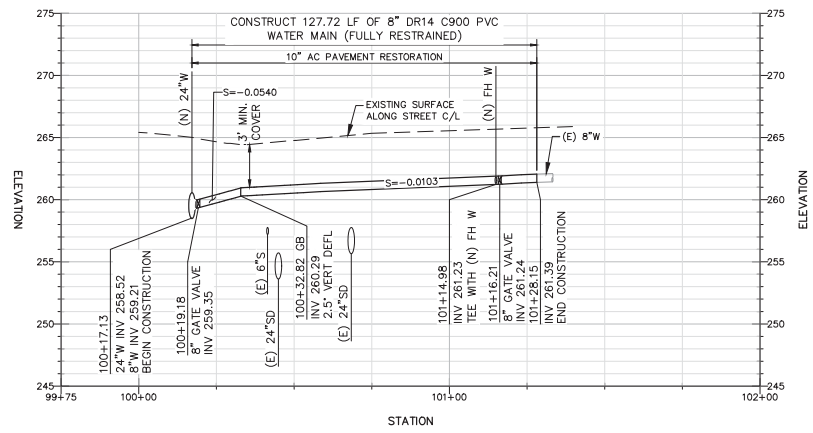
HORIZ SCALE: 1"=20'
VERT SCALE: 1"=5'



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NOTES:

- CONTRACTOR SHALL FIELD VERIFY LOCATION, DEPTH, MATERIAL, AND DIMENSIONS OF EXISTING WATER MAIN AND FITTINGS PRIOR TO CONSTRUCTION.
- THRUST BLOCK SHALL BE CLASS 1 PCC. MINIMUM THICKNESS OF BLOCK SHALL BE 12 INCHES. BEARING AREA SHALL BE 25 SF FOR THE 24-INCH MAIN AND 15 SF FOR THE 8-INCH MAIN. FLANGES AND BOLTS SHALL BE SHIELDED FROM THE PCC WITH 8-MIL MINIMUM POLYETHYLENE PLASTIC SHEET.
- CONTRACTOR SHALL INSTALL TEMPORARY BYPASS WATER MAIN AS NEEDED FOR (E) WATER MAIN CROSSINGS IN CONFLICT WITH THE (N) 24" WATER MAIN.
- PIPE DEFLECTION SHALL NOT EXCEED PIPE MANUFACTURER'S RECOMMENDATIONS.



PROFILE VIEW - 8" PVC WATER MAIN IN STAFFORD ST

HORIZ SCALE: 1"=20'
VERT SCALE: 1"=5'



CALIFORNIA BOULEVARD & TAFT STREET
WATER MAIN REPLACEMENT

CIVIL DETAILS 1

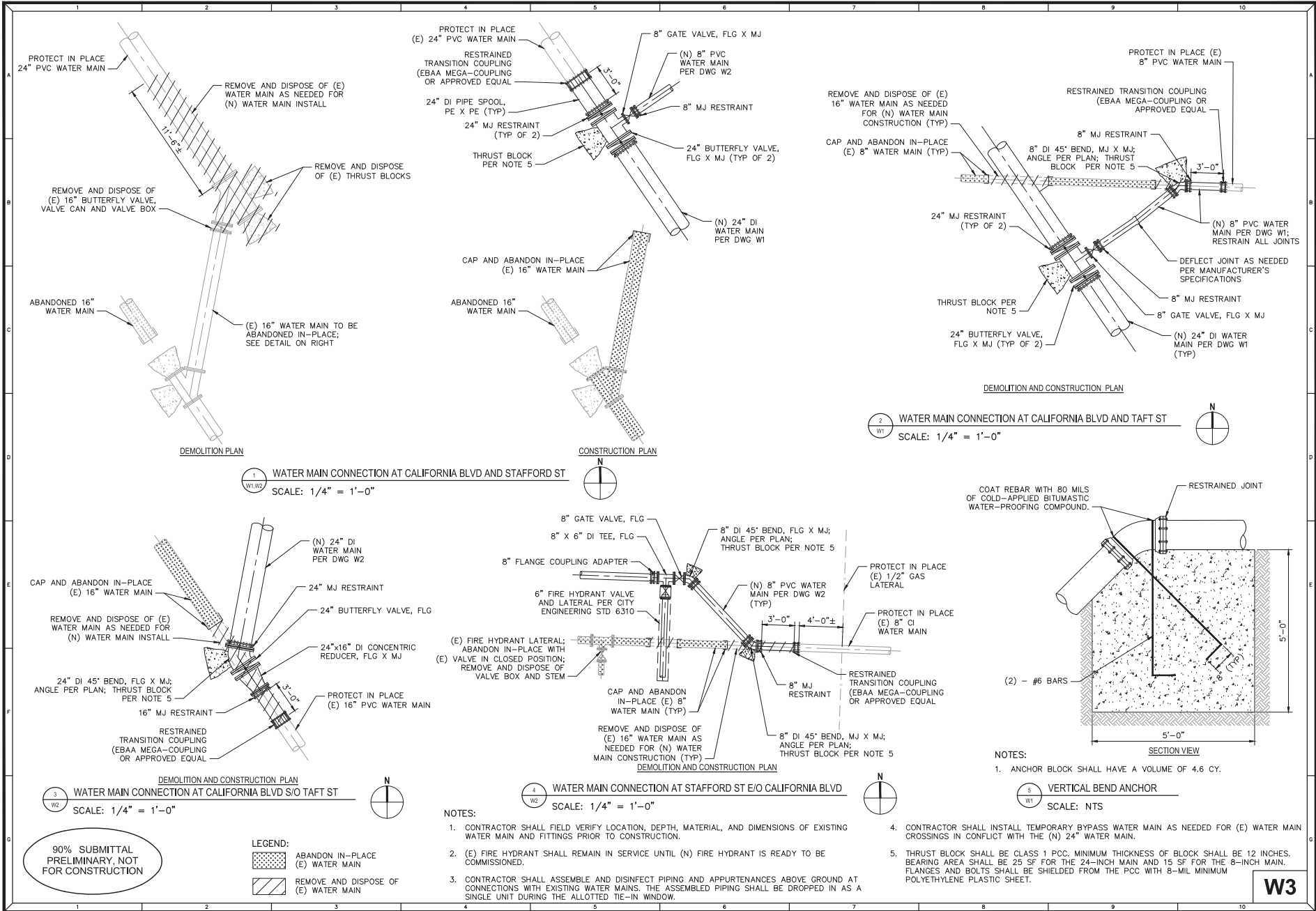
PROJECT TITLE

SHEET TITLE



DESIGNED BY: PA/AL
 DRAWN BY: AL
 CHECKED BY: CR
 APPROVED BY: JDW
 SCALE: 1"=20"
 DATE: 06/28/2024
 CITY SPECIFICATION NO. 2000545
 PLAN FILE NO./LOCATION: 2251W003.dwg
 SHEET NO.

W3



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- LEGEND:**
- ABANDON IN-PLACE (E) WATER MAIN
 - REMOVE AND DISPOSE OF (E) WATER MAIN

- NOTES:**
- CONTRACTOR SHALL FIELD VERIFY LOCATION, DEPTH, MATERIAL, AND DIMENSIONS OF EXISTING WATER MAIN AND FITTINGS PRIOR TO CONSTRUCTION.
 - (E) FIRE HYDRANT SHALL REMAIN IN SERVICE UNTIL (N) FIRE HYDRANT IS READY TO BE COMMISSIONED.
 - CONTRACTOR SHALL ASSEMBLE AND DISINFECT PIPING AND APPURTENANCES ABOVE GROUND AT CONNECTIONS WITH EXISTING WATER MAINS. THE ASSEMBLED PIPING SHALL BE DROPPED IN AS A SINGLE UNIT DURING THE ALLOTTED TIE-IN WINDOW.
 - CONTRACTOR SHALL INSTALL TEMPORARY BYPASS WATER MAIN AS NEEDED FOR (E) WATER MAIN CROSSINGS IN CONFLICT WITH THE (N) 24" WATER MAIN.
 - THRUST BLOCK SHALL BE CLASS 1 PCC. MINIMUM THICKNESS OF BLOCK SHALL BE 12 INCHES. BEARING AREA SHALL BE 25 SF FOR THE 24-INCH MAIN AND 15 SF FOR THE 8-INCH MAIN. FLANGES AND BOLTS SHALL BE SHIELDED FROM THE PCC WITH 8-MIL MINIMUM POLYETHYLENE PLASTIC SHEET.

- NOTES:**
- ANCHOR BLOCK SHALL HAVE A VOLUME OF 4.6 CY.
 - VERTICAL BEND ANCHOR
SCALE: NTS