

COUNTY OF EL DORADO, CA  
 COMMUNITY DEVELOPMENT SERVICES  
 DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR THE CONSTRUCTION OF THE 2024

APACHE AVENUE PEDESTRIAN  
 SAFETY AND CONNECTIVITY  
 PROJECT

IN THE COUNTY OF EL DORADO, DISTRICT 5,  
 TAHOE PARADISE UNITS NO. 1, 2, 5 & 6 SUBDIVISIONS

To be supplemented with the 2022 Standard Plans and Specifications of  
 the California Department of Transportation, unless otherwise noted.

INDEX OF SHEETS

SHEET	PLAN SHEET	TITLE
1	i	TITLE SHEET
2	ii	GENERAL NOTES, ABBREVIATIONS
3	iii	SHEET INDEX MAP AND EARTHWORK SUMMARY
4	CD-1	SURVEY AND CONTROL DIAGRAM
5-13	P-1 THRU P-9	LAYOUT
14-17	SD-1 THRU SD-4	DRAINAGE
18	Q-1	LAYOUT AND DRAINAGE QUANTITIES
19-20	HC-1 THRU HC-2	HORIZONTAL CONTROL
21-25	D-1 THRU D-5	DETAILS
26-28	PD-1 THRU PD-3	PAVEMENT DELINEATION AND SIGN PLAN
29-30	EC-1 THRU EC-3	TEMPORARY EROSION CONTROL
31-32	R-1 THRU R-2	REVEGETATION PLAN
33	T-1	TRAFFIC CONTROL

SOUTH TAHOE PUBLIC UTILITY DISTRICT  
 WATER LINE RELOCATION SHEETS

SHEET	PLAN SHEET	TITLE
34	W-1	TITLE SHEET
35	W-2	GENERAL NOTES
36-39	W-3 THRU W-6	WATERLINE REPLACEMENT PLAN SHEETS
40-41	W-7 THRU W-8	DETAILS
42-43	W-9 THRU W-10	WATER SERVICE PROFILES

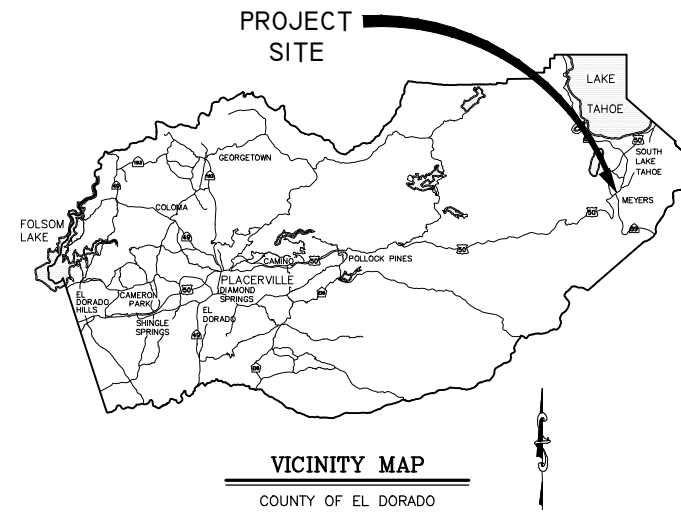
BOARD OF SUPERVISORS

I	JOHN HIDAHL
II	GEORGE TURNBOO
III	WENDY THOMAS
IV	LORI PARLIN
V	BROOK LAINE

COUNTY OF EL DORADO  
 COMMUNITY DEVELOPMENT SERVICES  
 DEPARTMENT OF TRANSPORTATION

(530) 573-7900  
 924 B EMERALD BAY RD  
 SOUTH LAKE TAHOE, CA  
 96150

(530) 621-5900  
 2850 FAIRLAKE CT  
 PLACERVILLE, CA  
 95667



FUNDING AGENCIES

- ACTIVE TRANSPORTATION
- STATE BLOCK GRANT
- TRPA MITIGATION FUNDS
- CARBON REDUCTION PROGRAM

ADOPTED AND APPROVED BY:

WENDY THOMAS  
 CHAIR, COUNTY OF EL DORADO BOARD OF SUPERVISORS

RAFAEL MARTINEZ, DIRECTOR  
 COMMUNITY DEVELOPMENT SERVICES, DEPARTMENT OF TRANSPORTATION

JOHN H. KAHLING, P.E., RCE NO. 52426, DEPUTY DIRECTOR OF ENGINEERING  
 COMMUNITY DEVELOPMENT SERVICES, DEPARTMENT OF TRANSPORTATION

CONTRACTOR'S LICENSE CLASSIFICATION: Bidders shall be properly licensed to perform the Work pursuant to the State Contractor's License Law (Business and Professions Code section 7000 et seq.) and shall possess a CLASS A LICENSE and CLASS C27 LICENSE or equivalent combination of Classes required by the categories and type of Work included in the Contract Documents and Plans, at the time the Contract is awarded, and shall maintain a valid license through completion and acceptance of the Work including guarantee and warranty period. Failure of the successful Bidder to obtain proper and adequate licensing for an award of the Contract shall constitute a failure to execute the Contract, and shall result in forfeiture of the Bidders security.

REVISIONS		
MARK	DATE	BY



PROJECT LOCATION LEGEND

- ADA CURB RAMP
- SPEED FEEDBACK SIGN
- CLASS 1 BIKEWAY
- SIDEWALK



SUBMITTED BY: DANIEL W. KIKKERT P.E.  
 SENIOR CIVIL ENGINEER  
 STATE OF CALIFORNIA NO. 70168

DECEMBER 31, 2023  
 DATE

CONTRACT NO. 7922, CIP NO. 95199

APACHE AVENUE PEDESTRIAN  
 SAFETY AND CONNECTIVITY  
 PROJECT

TITLE SHEET

1 OF 33  
 SHEET

GENERAL NOTES

- 1. ALL IMPROVEMENTS WILL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION, AND TO THE SATISFACTION OF THE COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION (TD). IMPROVEMENT CONSTRUCTION MUST COMPLY WITH THESE PLANS AND THE 2018 CALTRANS STANDARD PLANS, UNLESS NOTED OTHERWISE. ALL REFERENCES TO THE "STANDARD SPECIFICATIONS" MEAN THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS) 2015 STANDARD SPECIFICATIONS. CONSTRUCTION NOT SPECIFIED ON THESE PLANS OR IN SPECIFIC COUNTY OF EL DORADO (COUNTY) ORDINANCES MUST CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. YOU ARE OBLIGATED TO BE FAMILIAR WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS NOT DISCUSSED IN THE GENERAL NOTES. THE CONTRACT SPECIAL PROVISIONS SUPERSEDE THE STANDARD SPECIFICATIONS WHERE DISCREPANCIES OCCUR.
2. CONSTRUCTION HOURS WILL BE WEEKDAYS BETWEEN 8:00 A.M. AND 6:30 P.M. UNLESS PRIOR APPROVAL IS RECEIVED FROM THE COUNTY TD.
3. THE LOCATIONS AND EXTENT OF UNDERGROUND UTILITIES IN THE WORK AREA AS SHOWN ARE APPROXIMATE AND ARE NOT NECESSARILY COMPLETE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE UTILITIES BASED UPON AVAILABLE RECORDS. YOU MUST DETERMINE THE TYPE, LOCATION, SIZE, AND/OR DEPTH OF THE UTILITIES WITHIN THE WORK AREA BEFORE STARTING WORK. YOU OR ANY SUBCONTRACTOR FOR THIS CONTRACT ARE RESPONSIBLE FOR DAMAGES DUE TO THE FAILURE TO EXACTLY LOCATE AND PRESERVE UNDERGROUND UTILITIES. YOU MUST CONTACT UNDERGROUND SERVICE ALERT AT (800) 642-2444 AT LEAST 48 HOURS BEFORE ANY CONSTRUCTION. SEE THE SPECIAL PROVISIONS FOR NOTIFICATION REQUIREMENTS. YOU ASSUME COMPLETE RESPONSIBILITY FOR DAMAGED UTILITIES.
4. UNLESS SHOWN OTHERWISE, YOU ARE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS, INCLUDING CONSTRUCTION STAKES DURING CONSTRUCTION AND YOU ARE RESPONSIBLE FOR THE COST TO REPLACE ANY SUCH SURVEY MONUMENTS, MARKERS, OR STAKES.
5. YOU WILL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, PILOT CAR, OR OTHER DEVICES NECESSARY TO CONTROL TRAFFIC THROUGH THE JOB SITE AND FOR PUBLIC SAFETY UNDER THESE PLANS, THE STANDARD SPECIFICATIONS, AND CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
6. YOU AGREE TO ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE WORK, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND FURTHER AGREE THAT THIS REQUIREMENT APPLIES CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS UNDER THE CONTRACT AND STANDARD SPECIFICATIONS.
7. THERE WILL BE NO GRADING OR LAND DISTURBANCE BETWEEN OCTOBER 15 AND MAY 1 UNLESS APPROVALS ARE OBTAINED FROM THE TAHOE REGIONAL PLANNING AGENCY (TRPA), AS PROVIDED IN THE LIMITED EXEMPTION DESCRIBED IN CHAPTER 64, SUBSECTION 64.2.B. OF THE TRPA CODE OF ORDINANCES. APPROVALS FOR GRADING BETWEEN OCTOBER 15 AND MAY 1 MUST ALSO BE OBTAINED FROM THE REGIONAL WATER QUALITY CONTROL BOARD, LAHONTAN. IF REQUIRED, THE COUNTY WILL OBTAIN THESE APPROVALS.
8. YOU WILL MAINTAIN A SET OF PLANS ON THE JOB SITE SHOWING "AS-CONSTRUCTED" CHANGES MADE TO DATE. UPON COMPLETION OF THE WORK, YOU WILL GIVE TO THE COUNTY A SET OF PLANS, MARKED UP TO THE SATISFACTION OF THE COUNTY, REFLECTING THE AS-CONSTRUCTED MODIFICATIONS.
9. ALL CONTROL STATIONING AND DATA DIMENSIONING REFERENCE THE CENTERLINE OF THE FACILITY SHOWN, UNLESS NOTED OTHERWISE.
10. YOU WILL NOT CLOSE OFF ANY UTILITY LINES OR OPEN VALVES OR TAKE ANY OTHER ACTION WHICH WOULD AFFECT THE OPERATION OF WATER OR SEWER SYSTEMS WITHOUT APPROVAL FROM THE SOUTH TAHOE PUBLIC UTILITY DISTRICT (STPUD). APPROVAL MUST BE REQUESTED AT LEAST 48 HOURS BEFORE INTERRUPTION OF THE UTILITY SERVICE IS REQUIRED. ANY INTERRUPTION TO ACTIVE WATER OR SEWER SERVICES, INCLUDING FIRE HYDRANTS, WHETHER INTENTIONAL OR NOT, MUST BE KEPT TO A MINIMUM TIME PERIOD. IF SERVICE TO BUILDINGS IS TO BE OFF FOR MORE THAN FOUR HOURS, YOU MUST ADVISE STPUD.
11. YOU ARE REQUIRED TO IMPLEMENT DUST CONTROL MEASURES TO ENSURE THAT DUST RESULTING FROM YOUR ACTIVITIES IS CONTROLLED AND COMPLIES WITH THE PROVISIONS OF SECTION 7, "LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC," AND SECTION 14, "ENVIRONMENTAL STEWARDSHIP," OF THE STANDARD SPECIFICATIONS, COUNTY, AND LOCAL ORDINANCES. SEE THE SPECIAL PROVISIONS FOR DUST AND TRACKING CONTROL AND SWEEPING REQUIREMENTS.
12. YOU ARE RESPONSIBLE FOR IMPLEMENTING ALL TEMPORARY EROSION CONTROL MEASURES. THE TEMPORARY EROSION CONTROL MEASURES MUST COMPLY WITH THE TRPA "HANDBOOK OF BEST MANAGEMENT PRACTICES" AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE TD WILL CONTACT TRPA BEFORE THE START OF THE WORK FOR A PRE-GRADING INSPECTION OF THE INSTALLED TEMPORARY EROSION CONTROL FACILITIES. YOU ARE RESPONSIBLE FOR THE MAINTENANCE AND PERFORMANCE OF THE TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE WORK. SEE THE SPECIAL PROVISIONS REGARDING TEMPORARY EROSION CONTROL FACILITY REMOVAL.
13. CONSTRUCTION LIMITS SHOWN DELINEATE THE BOUNDARIES FOR YOUR ACTIVITIES BEYOND THE COUNTY STREET RIGHT-OF-WAY. CONSTRUCTION LIMIT FENCING MUST BE ERRECTED ALONG THESE BOUNDARIES BEFORE WORK STARTS. VEGETATION WITHIN THESE LIMITS MUST BE PROTECTED TO THE EXTENT FEASIBLE. ALL TREES MUST BE PROTECTED UNLESS SHOWN TO BE REMOVED.
14. UNLESS NOTED OTHERWISE, ALL REVEGETATION IS TO BE COMPLETED BY OTHERS.
15. YOU WILL ONLY USE THE DESIGNATED SITES SHOWN FOR STORAGE OF EQUIPMENT AND MATERIALS. YOU ARE RESPONSIBLE FOR THE SECURITY OF EQUIPMENT AND MATERIALS.
16. IT IS YOUR AND YOUR SUBCONTRACTOR(S) RESPONSIBILITY TO EXAMINE THE JOB SITE BEFORE THE OPENING OF BID PROPOSALS. YOU MUST BECOME FAMILIAR WITH THE NATURE AND LOCATION OF THE WORK AND THE GENERAL AND LOCAL CONDITIONS, PARTICULARLY THOSE AFFECTING THE AVAILABILITY OF TRANSPORTATION, THE DISPOSAL, HANDLING, AND STORAGE OF MATERIALS, AVAILABILITY OF LABOR, WATER, ELECTRICITY, ROADS, THE UNCERTAINTIES OF WEATHER, THE CONDITIONS OF THE GROUND, SURFACE AND SUBSURFACE MATERIALS, THE EQUIPMENT AND FACILITIES NEEDED FOR AND DURING THE PERFORMANCE OF THE WORK. FAILURE BY YOU OR YOUR SUBCONTRACTOR(S) TO ACQUAINT YOURSELVES WITH THE INFORMATION AVAILABLE WILL NOT RELIEVE YOU OR YOUR SUBCONTRACTOR(S) FROM RESPONSIBILITY FOR PROPERLY ESTIMATING THE DIFFICULTY AND COST OF SUCCESSFULLY PERFORMING THE WORK.
17. ELEVATIONS FOR PIPE INVERTS, FLOWLINES, TOPS OF GRATES, RIMS, ETC., ARE BASED ON THE TOPOGRAPHIC INFORMATION SHOWN. YOU WILL VERIFY ALL NECESSARY SURFACE ELEVATIONS IN THE FIELD AND NOTIFY THE TD OF ANY DISCREPANCIES WHICH MIGHT AFFECT THE OPERATION OF THE NEW FACILITIES BEFORE BREAKING GROUND FOR THE INSTALLATION. THE TD MUST BE CONTACTED IF ELEVATIONS ARE INCORRECT SO PROPER ADJUSTMENTS CAN BE MADE BEFORE THE INSTALLATION OF THE FACILITIES.
18. EXCEPT FOR THOSE OBTAINED BY THE TD, YOU MUST OBTAIN, AT YOUR EXPENSE, ALL PERMITS, LICENSES, INSURANCE POLICIES, ETC., NECESSARY TO COMPLY WITH STATE AND LOCAL LAWS ASSOCIATED WITH THE PERFORMANCE OF THE WORK.
19. YOU ARE RESPONSIBLE TO REVIEW THE CONTRACT DOCUMENTS FOR SUBMITTALS REQUIRED FOR COUNTY REVIEW AND ACCEPTANCE.
20. THE COUNTY WILL PROVIDE CONSTRUCTION STAKING IN COMPLIANCE WITH SECTION 5-1.26 OF THE STANDARD SPECIFICATIONS.
21. THE PLANS SHOW SLOPE LENGTHS FOR PIPE ROUNDED TO THE NEAREST FOOT. ALL PIPE LENGTHS AND INVERT ELEVATIONS SHOWN ON THE PLANS ARE TO THE CENTERLINE OF THE STRUCTURES TO WHICH THE PIPES ARE ATTACHED. SEE THE STANDARD SPECIFICATIONS FOR THE MAXIMUM ALLOWABLE DEFLECTION ANGLE AT EACH PIPE JOINT.
22. YOU ARE RESPONSIBLE TO MAINTAIN THE GRADING LIMITS AS SHOWN ON THE PLANS, DETAILS, CROSS SECTIONS, AND AS DIRECTED BY THE ENGINEER. SEE SHEET iii OF THE PLANS FOR THE RAW EARTHWORK QUANTITIES ASSOCIATED WITH GRADING.

ABBREVIATIONS

NOTE: LOWER CASE TEXT WITHIN PLAN SET INDICATES EXISTING
DELTA = DEFLECTION ANGLE
ARCH OR ASPEN
AGGREGATE BASE
ABANDONED
ARTICULATED BLOCK CHANNEL
ASPHALT CONCRETE
ANGLE POINT
ASSESSOR'S PARCEL NUMBER
BEGIN CURVE
BEGIN CURB RETURN
BEGIN
BLANKET-LINED CHANNEL
BOCA RATON
BEGIN VERTICAL CURVE ELEVATION
BEGIN VERTICAL CURVE STATION
CEDAR
CALCULATIONS
CABLE TELEVISION
CENTER TO CENTER
CUBIC FEET OR CURB FACE
CHORD DIRECTION
CIRCLE
CENTERLINE
CLASS OR CENTERLINE
CLEAR
CURB OPENING OR CLEANOUT
COUNTY
CONCRETE
CONSTRUCT
CORRUGATED METAL PIPE
CORRUGATED STEEL PIPE
CALTRANS OR COURT
CALIFORNIA TAHOE CONSERVANCY
CURB AND GUTTER
DEPTH
DOUBLE
DETAIL
DRAINAGE INLET OR DUCTILE IRON
DIAMETER
DISSIPATOR
DRIVE
DRIVEWAY
EAST
EACH
END OF CURVE
END OF CURB RETURN
ELECTRIC
ELEVATION
ENGINEER
EDGE OF PAVEMENT
TEMPORARY FENCE
EASEMENT
END VERTICAL CURVE ELEVATION
END VERTICAL CURVE STATION
EXISTING
FIR
FEDERAL EMERGENCY MANAGEMENT AGENCY
FLARED END SECTION
FINISHED GRADE
FIRE HYDRANT
FLOWLINE
FINISH SURFACE
GAS
GAUGE
GRADE BREAK
GRASS-LINED SWALE
GROUND WATER
HORIZONTAL
HIGH DENSITY POLYETHYLENE
HIGH POINT
HIGH WATER LINE
INSIDE DIAMETER
INVERT ELEVATION
INCREASE
INSTALL
INTERSECTION
LENGTH
LENGTH OF CHORD
LINEAR FEET
LOW POINT
LEFT
MATERIAL

LEGEND

EXISTING (SCREENED AND/OR DASHED)
EXISTING (AS NOTED)
RIGHT-OF-WAY OR PROPERTY LINE
EASEMENT
LAND CAPABILITY BOUNDARY
10' SEZ SETBACK
ROCK
FOUND MONUMENT
SURVEY CONTROL POINT
ELEVATION
SEWER MANHOLE
SEWER CLEAN OUT
DRAINAGE INLET
GAS METER
WATER VALVE
WATER METER
MONITORING WELL
WATER LINE
SEWER LINE
GAS LINE
STORM DRAIN
OVERHEAD UTILITIES
POWER/UTILITY POLE
UTILITY POLE & GUY ANCHOR
FIRE HYDRANT
FENCE
FLOWLINE
TREE, DIAMETER AND TYPE
STUMP
WILLOW CLUSTER
PROPOSED
CENTERLINE
SAWCUT (AS NOTED)
ELEVATION
ELEVATION, EG CL, PROPOSED (PROFILE ONLY)
CSP INLET/RISER OR STORM DRAIN MANHOLE, DRAINAGE INLET
CUT OR FILL SLOPE
DETAIL REF NUMBER SHEET NUMBER
ROCK
SD PIPE (MATERIAL AS NOTED)
REINFORCED SILT FENCE AND TYPE ESA FENCE
FLARED END SECTION
SLOPE RATIO, H: V
ROCK-LINED CHANNEL
BLANKET-LINED CHANNEL
TREE REMOVAL
FLOWLINE
CUT
FILL
UTILITIES
CABLE TELEVISION
NATURAL GAS
ELECTRIC
SEWER & WATER
TELEPHONE
STORM DRAIN
CHARTER SPECTRUM COMMUNICATIONS, (775) 588-1077
SOUTHWEST GAS, (530) 543-3225
LIBERTY UTILITIES, (530) 541-6400
SOUTH TAHOE PUD, (530) 544-6474
AT&T, (530) 888-2031
CO. OF EL DORADO TRANSPORTATION DIVISION, (530) 573-3180

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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

REVISION table with columns: NUMBER, DATE, DESCRIPTION, BY



PREPARED UNDER THE SUPERVISION OF: [Signature]
REGISTERED CIVIL ENGINEER
DECEMBER 31, 2023
DATE:

DESIGNED: DMG
DRAWN: DMG
CHECKED: DWK
DATE: 12/2023
ROAD NUMBER: ---



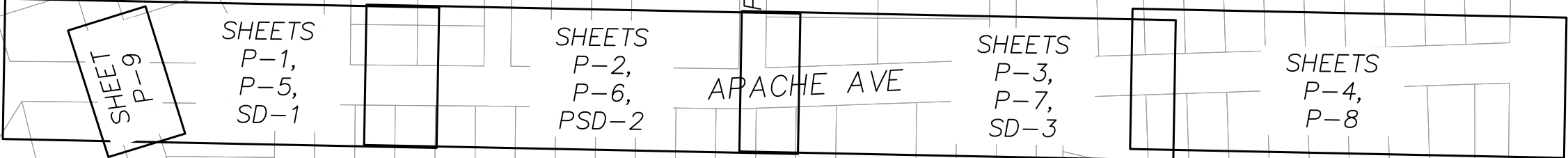
COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT SERVICES
DEPARTMENT OF TRANSPORTATION

APACHE AVENUE PEDESTRIAN SAFETY AND CONNECTIVITY PROJECT
GENERAL NOTES, ABBREVIATIONS, AND LEGEND

SHEET ii OF 33
CONTRACT NO. 7922
CIP No. 95199

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REVISION  
2 ORIGINAL SCALE IS IN INCHES  
1  
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**EARTHWORK SUMMARY BY IMPROVEMENT**

ALL VOLUMES ARE IN CUBIC YARDS

FACILITY	CUT	FILL	TOPSOIL MIX
CHANNEL / ROCK ENERGY DISSIPATOR	5	1	2
ROADWAY / PATHWAY / SIDEWALK	2194	20	97
TOTALS	2199	21	99

**AC REMOVAL / PLACEMENT BY LAND CLASSIFICATION**

DELTA = AMOUNT TO BE BANKED

CLASS	QUANTITY TBR (SF)	QUANTITY TO BE PLACED (SF) (ROAD)	QUANTITY TO BE PLACED (SF) (SIDEWALK)	DELTA (SF)
SEZ 1B*	0	0	0	0
5*	-87,277	68,972	8,060	-10,245
TOTALS	-87,277	68,972	8,060	-10,245

**!! WARNING !!**  
THE LOCATION AND/OR ELEVATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE ONLY APPROXIMATE. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES.

NOTES:  
THE QUANTITIES SHOWN HAVE BEEN CALCULATED USING THE TOPOGRAPHIC INFORMATION SHOWN ON THE PLANS. THE VOLUMES SHOWN ARE RAW, MEANING THAT NEITHER SHRINKAGE, SUBSIDENCE, NOR BULKING HAVE BEEN TAKEN INTO ACCOUNT. FOR THE QUANTITIES SHOWN IT IS ASSUMED THAT NO ROCK WAS ENCOUNTERED. IT IS YOUR RESPONSIBILITY TO REVIEW THESE QUANTITIES AND APPLY THE NECESSARY FACTORS TO DETERMINE THE VOLUME OF IMPORT MATERIAL NECESSARY (OR IF IT IS NECESSARY).

NOTES:  
1. NONE OF THE PROJECT AREA WAS MAPPED AS SEZ PER TRPA, 2012.  
2. PER TRPA CLASS 1 TRAILS AND BMPS ARE NOT CONSIDERED IN COVERAGE CALCULATIONS. SIDEWALKS ARE NOT EXEMPT FROM COVERAGE CALCULATIONS.  
3. TO BE REMOVED (TBR) QUANTITY ACCOUNTS FOR HARD COVERAGE REMOVED OUTSIDE OF THE LIP OF CURB.  
4. TO BE PLACED QUANTITY INCLUDES ANY PAVING OUTSIDE OF THE TOP BACK OF CURB FOR THE SIDEWALK AND CURB RAMPS ASSOCIATED WITH THE SIDEWALK.

SCALE: 1" = 150'

NUMBER	DATE	DESCRIPTION	BY



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*[Signature]*  
REGISTERED CIVIL ENGINEER  
DECEMBER 31, 2023  
DATE:

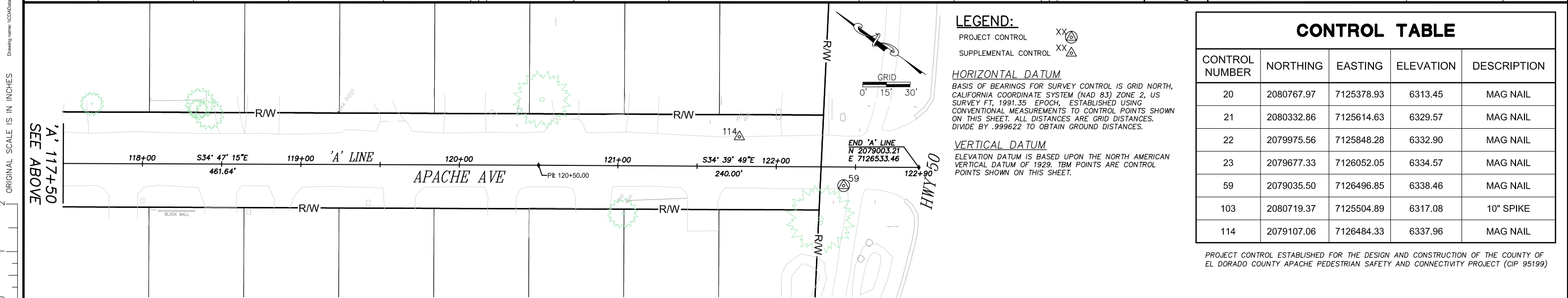
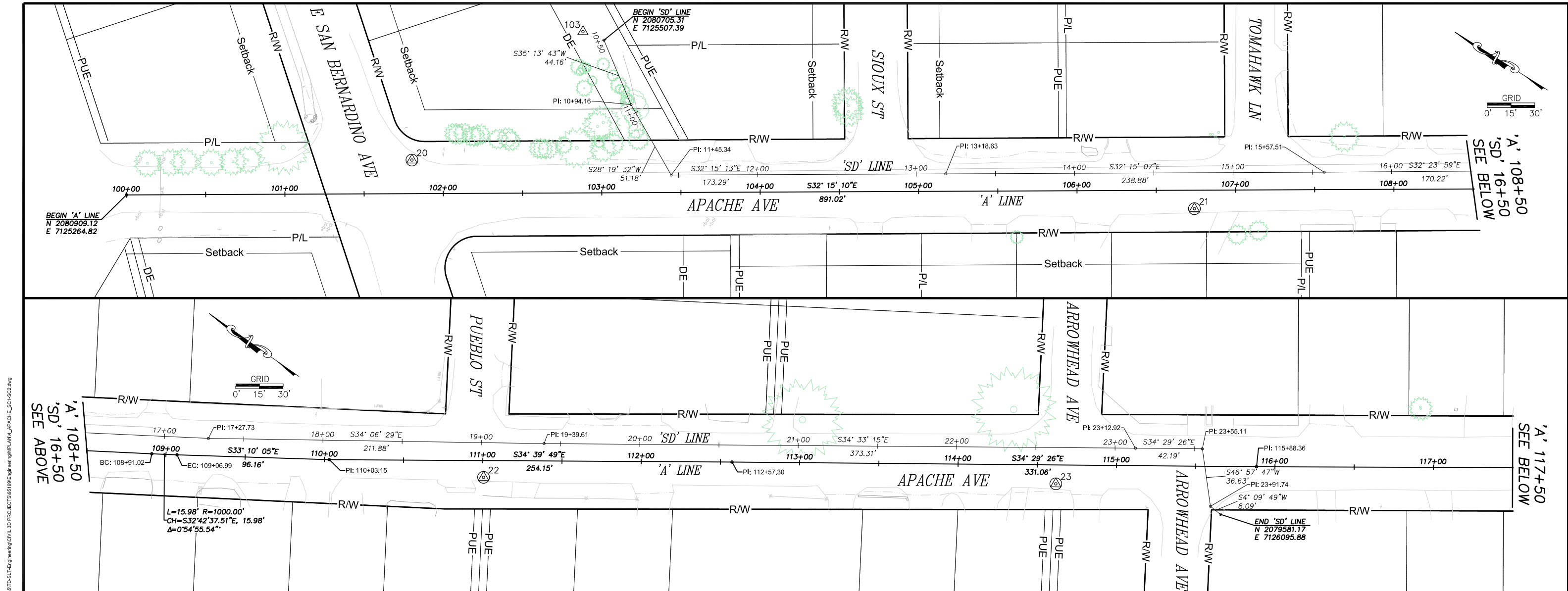
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DRAWN: DMG  
CHECKED: DWK  
DATE: 12/2023  
ROAD NUMBER: ---



COUNTY OF EL DORADO  
COMMUNITY DEVELOPMENT SERVICES  
DEPARTMENT OF TRANSPORTATION

APACHE AVENUE PEDESTRIAN SAFETY AND CONNECTIVITY PROJECT  
SHEET INDEX MAP AND EARTHWORK SUMMARY TABLE

SHEET iii  
3 OF 33  
CONTRACT NO. 7922  
CIP No. 95199



CONTROL TABLE				
CONTROL NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
20	2080767.97	7125378.93	6313.45	MAG NAIL
21	2080332.86	7125614.63	6329.57	MAG NAIL
22	2079975.56	7125848.28	6332.90	MAG NAIL
23	2079677.33	7126052.05	6334.57	MAG NAIL
59	2079035.50	7126496.85	6338.46	MAG NAIL
103	2080719.37	7125504.89	6317.08	10" SPIKE
114	2079107.06	7126484.33	6337.96	MAG NAIL

PROJECT CONTROL ESTABLISHED FOR THE DESIGN AND CONSTRUCTION OF THE COUNTY OF EL DORADO COUNTY APACHE PEDESTRIAN SAFETY AND CONNECTIVITY PROJECT (CIP 95199)

FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*Joseph C. Neely*  
 PROFESSIONAL LAND SURVEYOR  
 DECEMBER 12, 2023

DESIGNED: DMG  
 DRAWN: KIS  
 CHECKED: JCN  
 DATE: 02/21  
 ROAD NUMBER: 2016



COUNTY OF EL DORADO  
 DEPARTMENT OF TRANSPORTATION

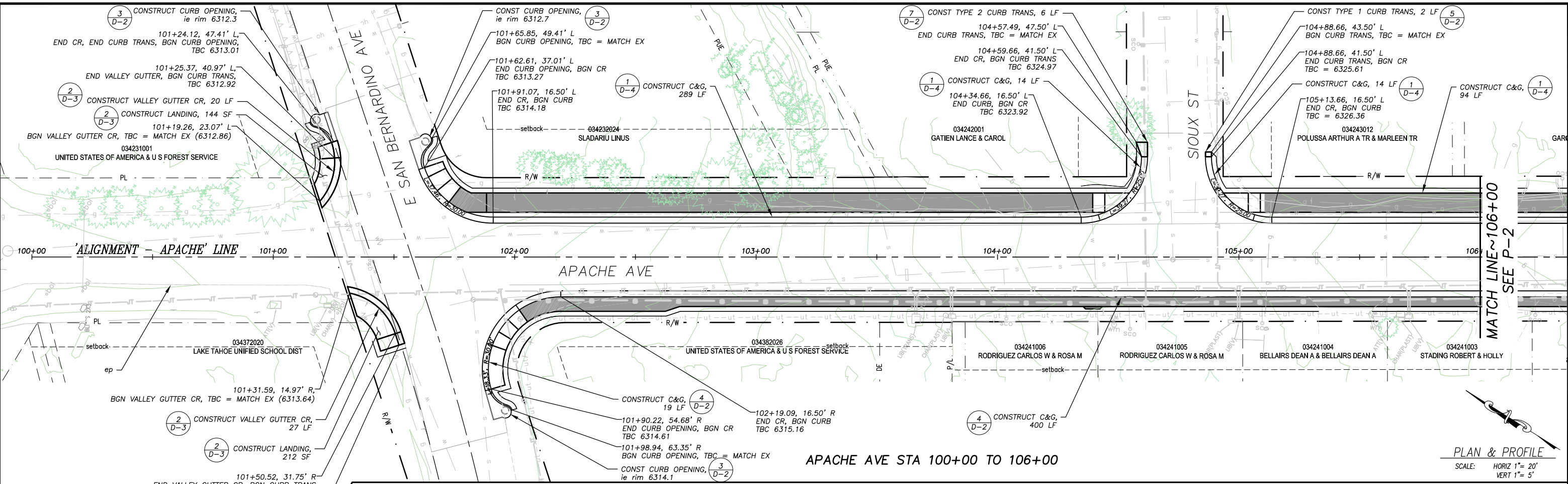
APACHE AVENUE PEDESTRIAN SAFETY AND  
 CONNECTIVITY PROJECT  
 SURVEY CONTROL AND ALIGNMENTS

SHEET  
 CD-1  
 4 OF 33  
 CONTRACT NO.  
 7922  
 CIP No.  
 95199

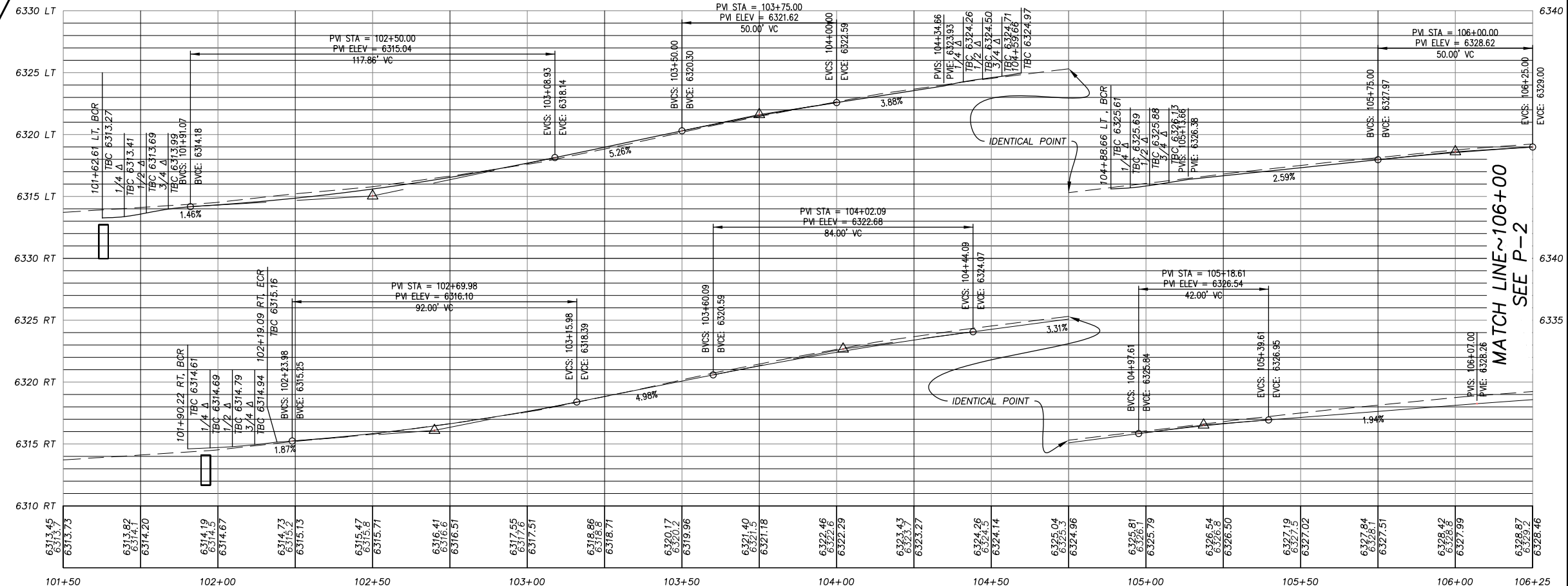
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ORIGINAL SCALE IS IN INCHES

FOR REDUCED PLANS



PLAN & PROFILE  
SCALE: HORIZ 1" = 20'  
VERT 1" = 5'



REVISION	NUMBER	DATE	DESCRIPTION	BY



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*[Signature]*  
REGISTERED CIVIL ENGINEER  
DECEMBER 31, 2023  
DATE:

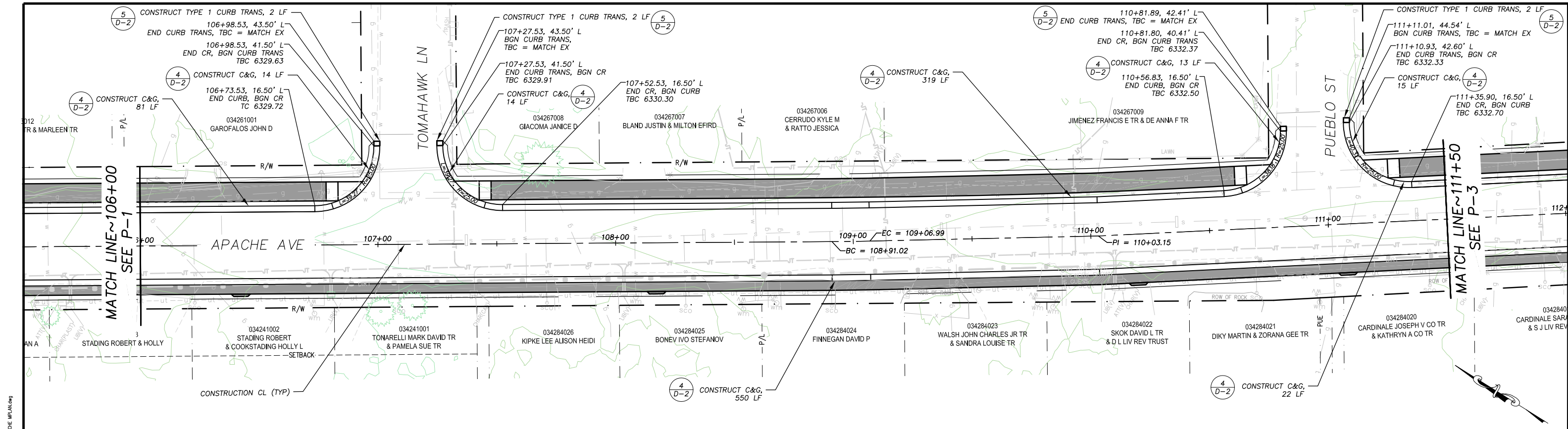
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DRAWN: DMG  
CHECKED: DWK  
DATE: 12/2023  
ROAD NUMBER: ---



COUNTY OF EL DORADO  
COMMUNITY DEVELOPMENT SERVICES  
TRANSPORTATION DEPARTMENT

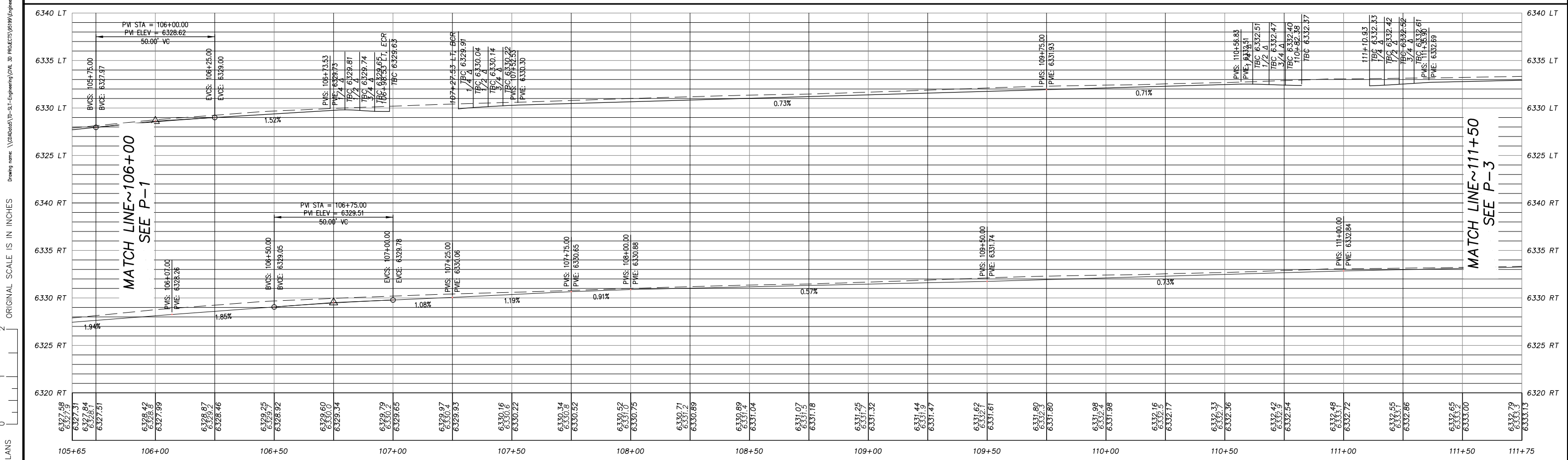
APACHE AVENUE PEDESTRIAN SAFETY AND CONNECTIVITY PROJECT  
APACHE AVE STA 100+00 TO 106+00

SHEET P-1  
5 OF 33  
CONTRACT NO. 7922  
CIP No. 95199



APACHE AVE STA 106+00 TO 111+50

PLAN & PROFILE  
SCALE: HORIZ 1" = 20'  
VERT 1" = 5'



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*[Signature]*  
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DECEMBER 31, 2023

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COUNTY OF EL DORADO  
COMMUNITY DEVELOPMENT SERVICES  
TRANSPORTATION DEPARTMENT

APACHE AVENUE PEDESTRIAN SAFETY AND  
CONNECTIVITY PROJECT  
APACHE AVE STA 106+00 TO 111+50

SHEET P-2  
6 OF 33  
CONTRACT NO. 7922  
CIP No. 95199

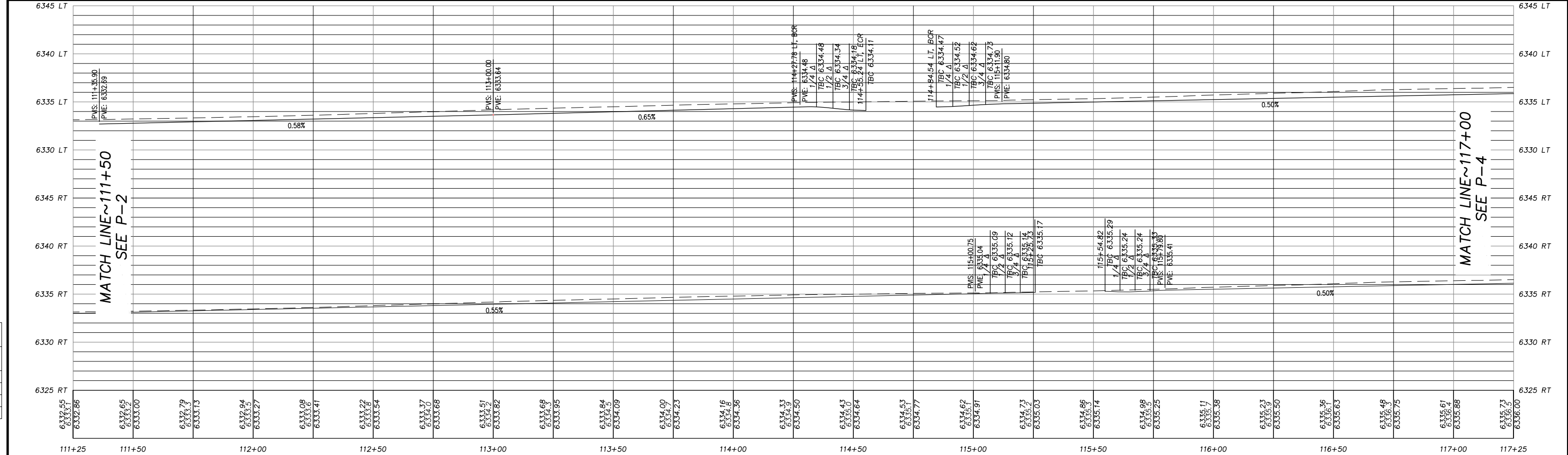
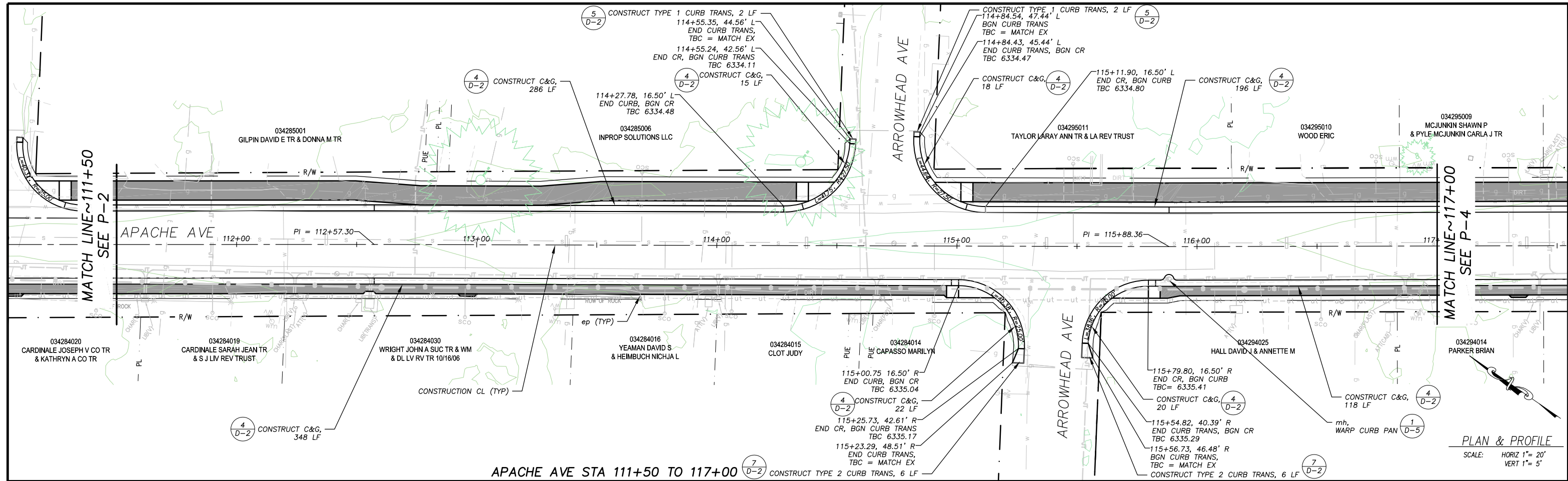
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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

2  
1  
0



REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*[Signature]*  
REGISTERED CIVIL ENGINEER  
**DECEMBER 31, 2023**

DESIGNED: DMG  
DRAWN: DMG  
CHECKED: DWK  
DATE: 12/2023  
ROAD NUMBER: ---

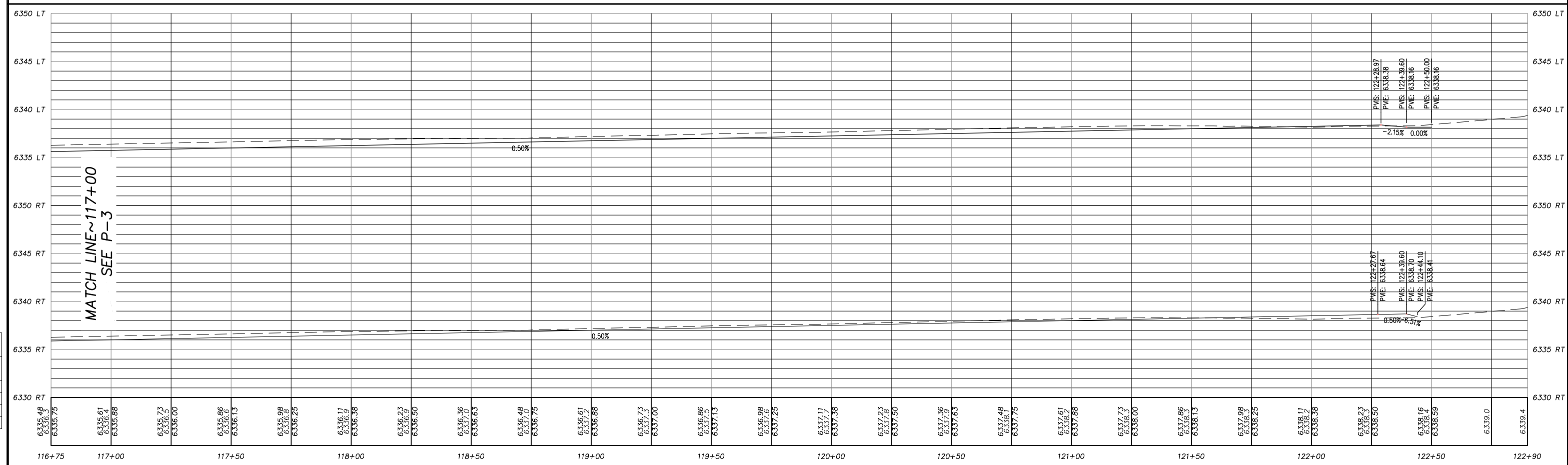
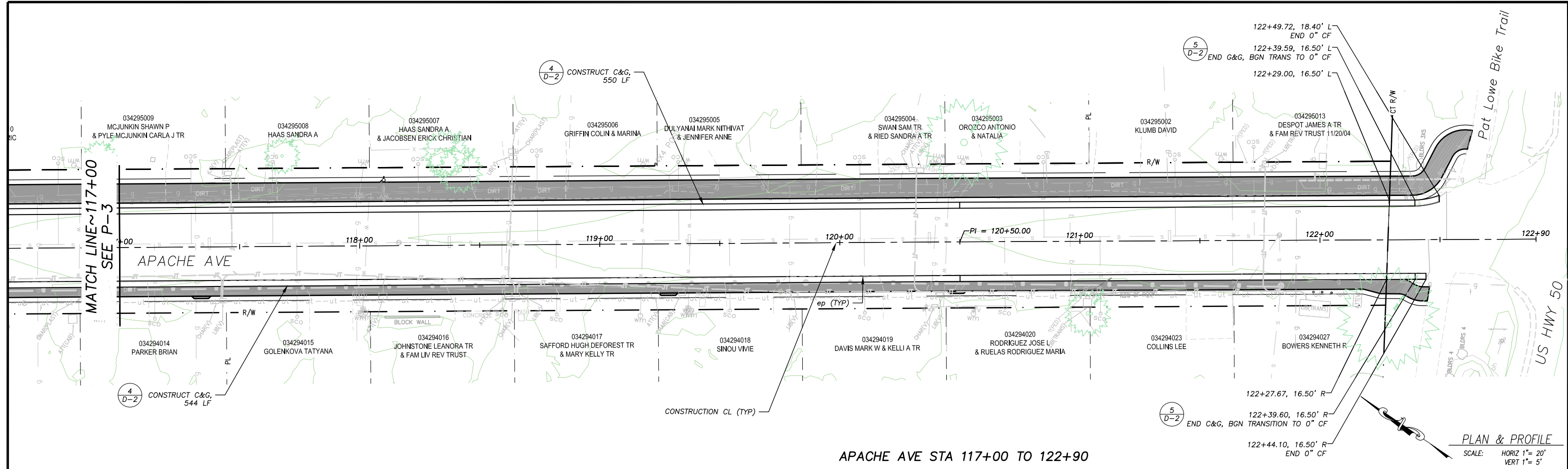


**COUNTY OF EL DORADO**  
**COMMUNITY DEVELOPMENT SERVICES**  
**TRANSPORTATION DEPARTMENT**

**APACHE AVENUE PEDESTRIAN SAFETY AND CONNECTIVITY PROJECT**  
**APACHE AVE STA 111+50 TO 117+00**

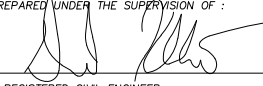
SHEET **P-3**  
7 OF 33  
CONTRACT NO. **7922**  
CIP No. **95199**

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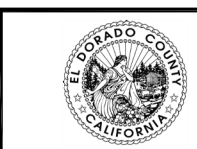


REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
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**DECEMBER 31, 2023**  
 DATE:

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 CHECKED: DWK  
 DATE: 12/2023  
 ROAD NUMBER: ---



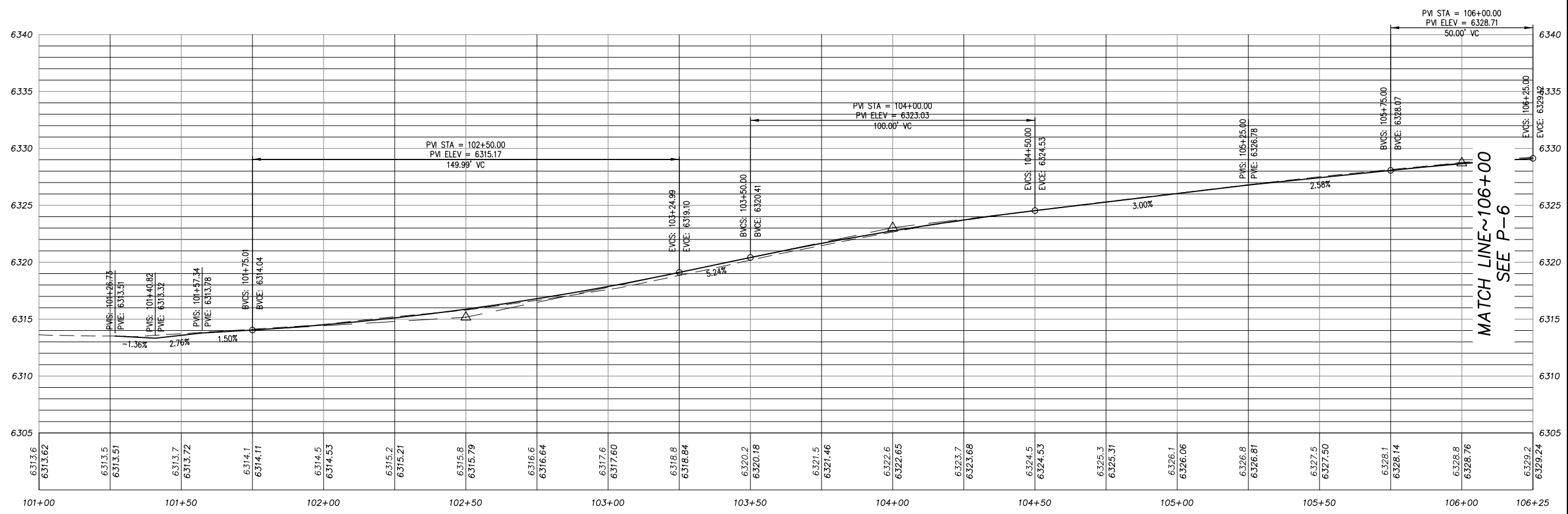
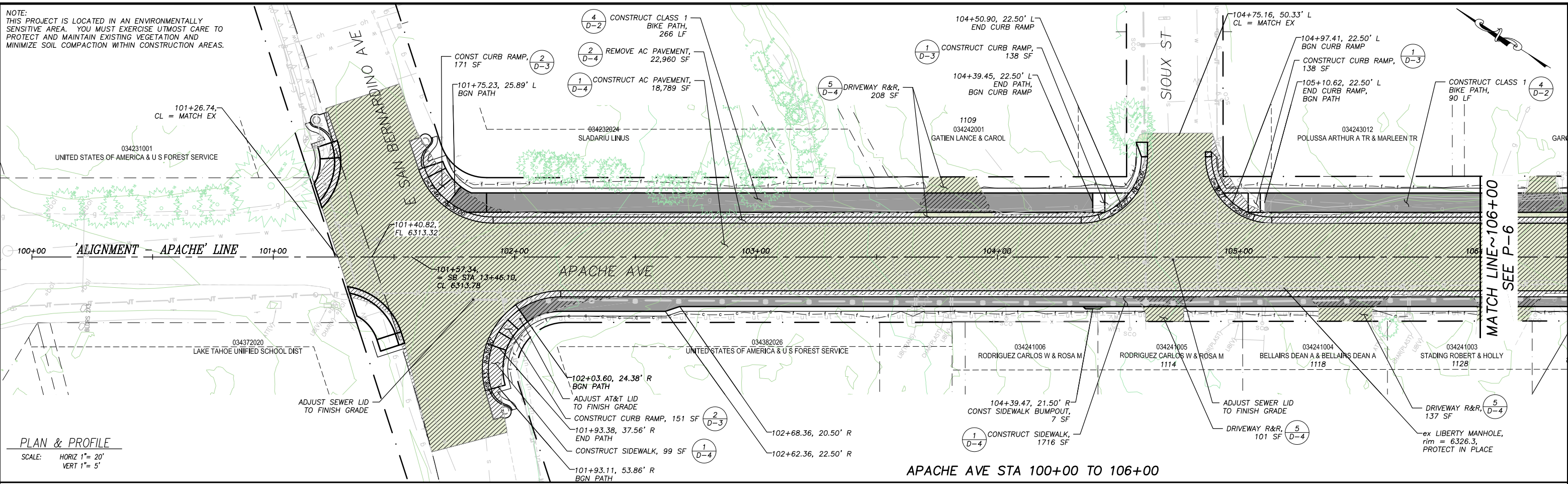
**COUNTY OF EL DORADO**  
**COMMUNITY DEVELOPMENT SERVICES**  
**TRANSPORTATION DEPARTMENT**

**APACHE AVENUE PEDESTRIAN SAFETY AND CONNECTIVITY PROJECT**  
**APACHE AVE STA 117+00 TO US 50**

SHEET **P-4**  
 8 OF 33  
 CONTRACT NO. **7922**  
 CIP No. **95199**



NOTE:  
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REVISION	NUMBER	DATE	DESCRIPTION	BY



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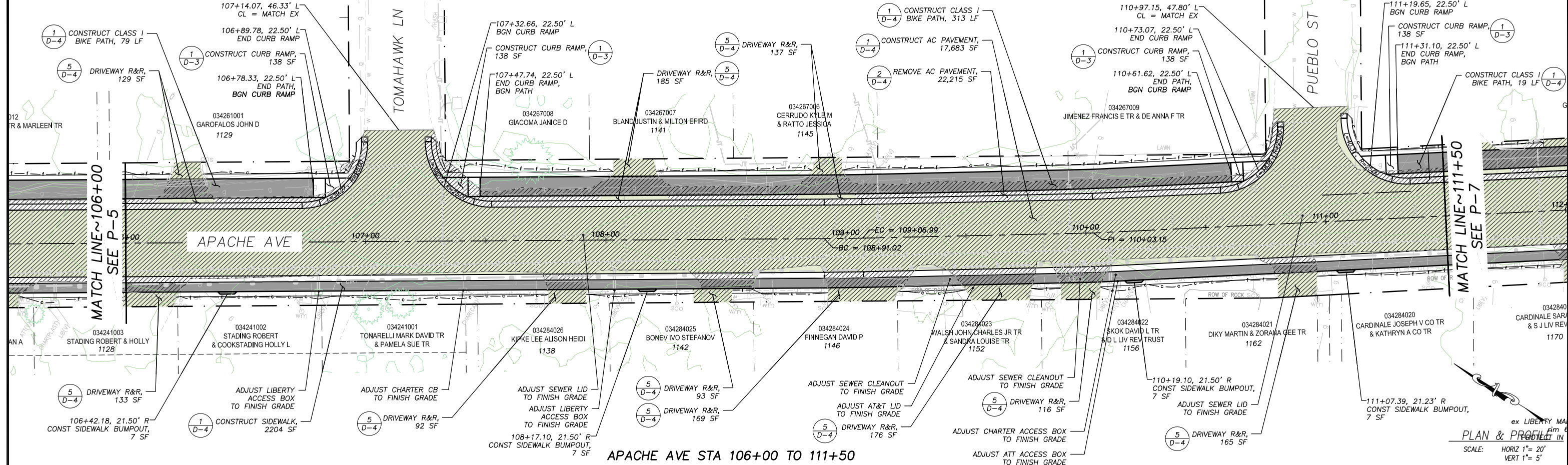
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DRAWN: DMG  
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DATE: 12/2023  
ROAD NUMBER: ---



COUNTY OF EL DORADO  
COMMUNITY DEVELOPMENT SERVICES  
TRANSPORTATION DEPARTMENT

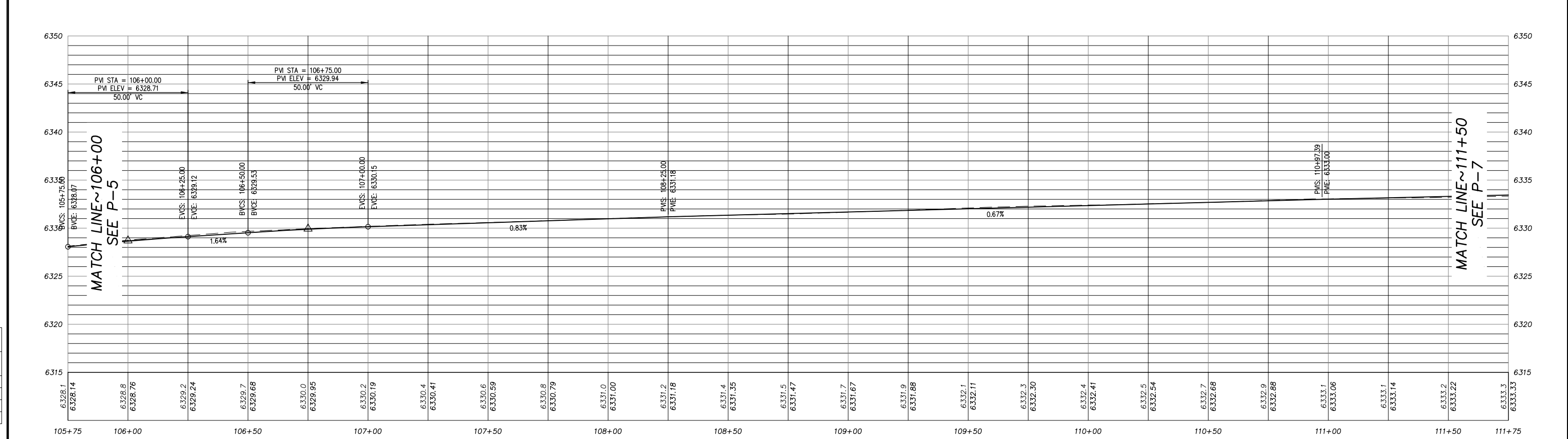
APACHE AVENUE PEDESTRIAN SAFETY AND  
CONNECTIVITY PROJECT  
PROPOSED CENTER LINE PROFILE  
STA 101+00 TO 106+00

SHEET  
**P-5**  
9 OF 33  
CONTRACT NO.  
**7922**  
CIP No.  
**95199**



APACHE AVE STA 106+00 TO 111+50

PLAN & PROFILE  
 SCALE: HORIZ 1" = 20'  
 VERT 1" = 5'



ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS  
 2  
 1  
 0

REVISION	NUMBER	DATE	DESCRIPTION	BY



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 DATE: **DECEMBER 31, 2023**

DESIGNED: DMG  
 DRAWN: DMG  
 CHECKED: DWK  
 DATE: 12/2023  
 ROAD NUMBER: 2016

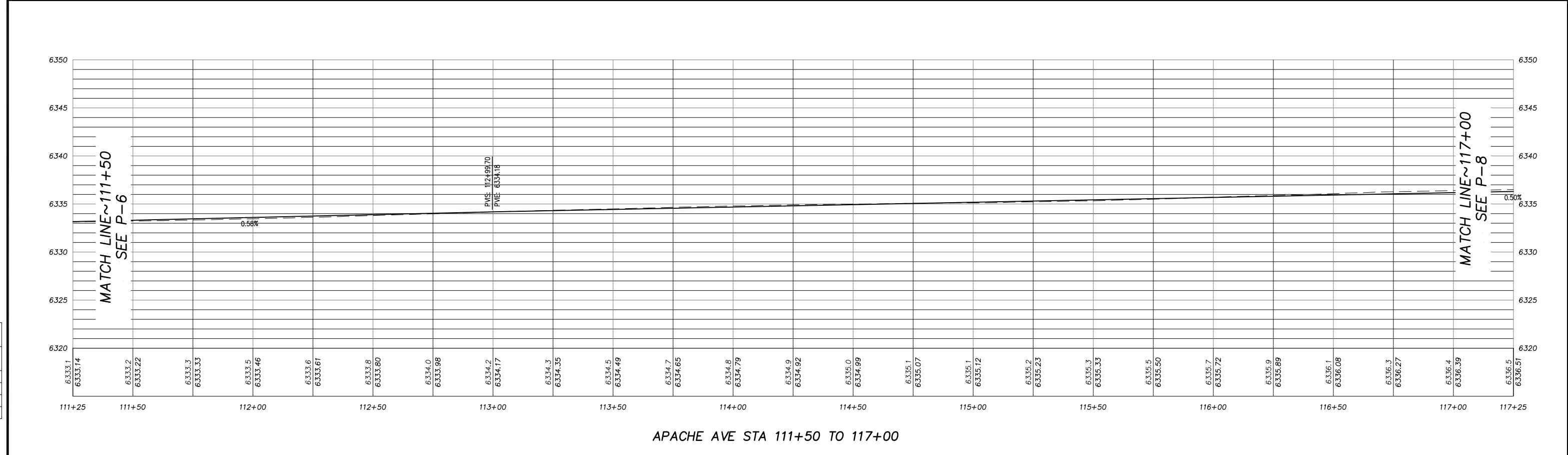
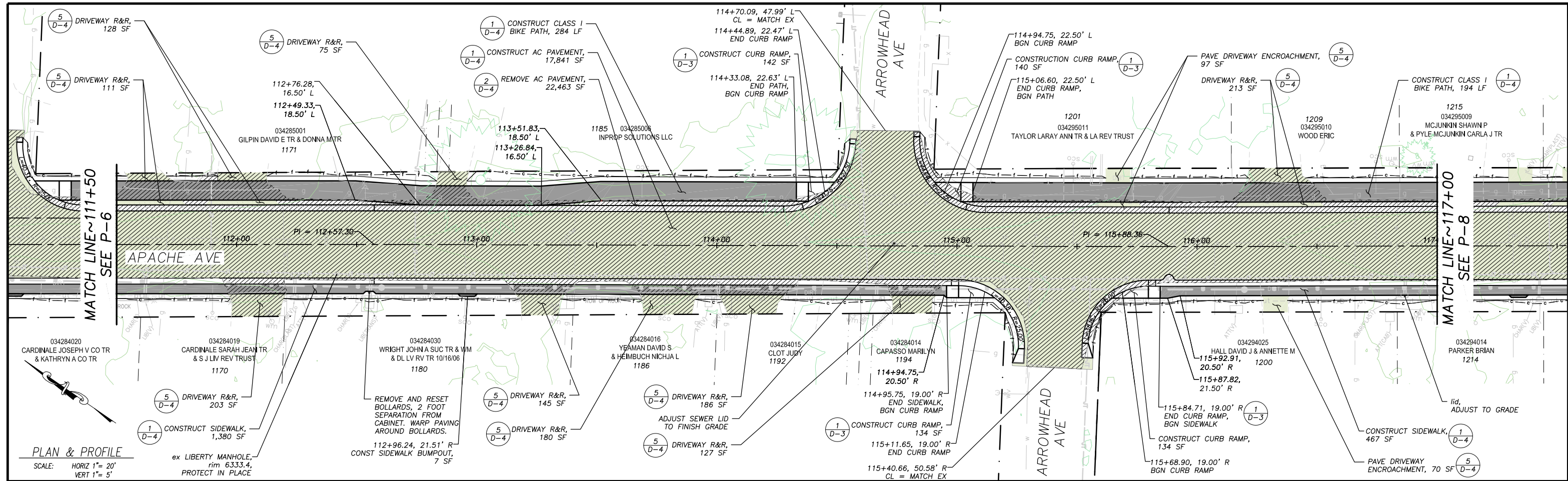


COUNTY OF EL DORADO  
 COMMUNITY DEVELOPMENT SERVICES  
 TRANSPORTATION DEPARTMENT

APACHE AVENUE PEDESTRIAN SAFETY AND  
 CONNECTIVITY PROJECT  
 PROPOSED CENTER LINE PROFILE  
 STA 106+00 TO 111+50

SHEET  
**P-6**  
 10 OF 33  
 CONTRACT NO.  
**7922**  
 CIP No.  
**95199**

DRAWING NAME: \CD\Projects\2019\2023\Engineering\WPA\APACHE WPA.dwg  
ORIGINAL SCALE IS IN INCHES  
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REVISION	NUMBER	DATE	DESCRIPTION	BY



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REGISTERED CIVIL ENGINEER  
DECEMBER 31, 2023  
DATE:

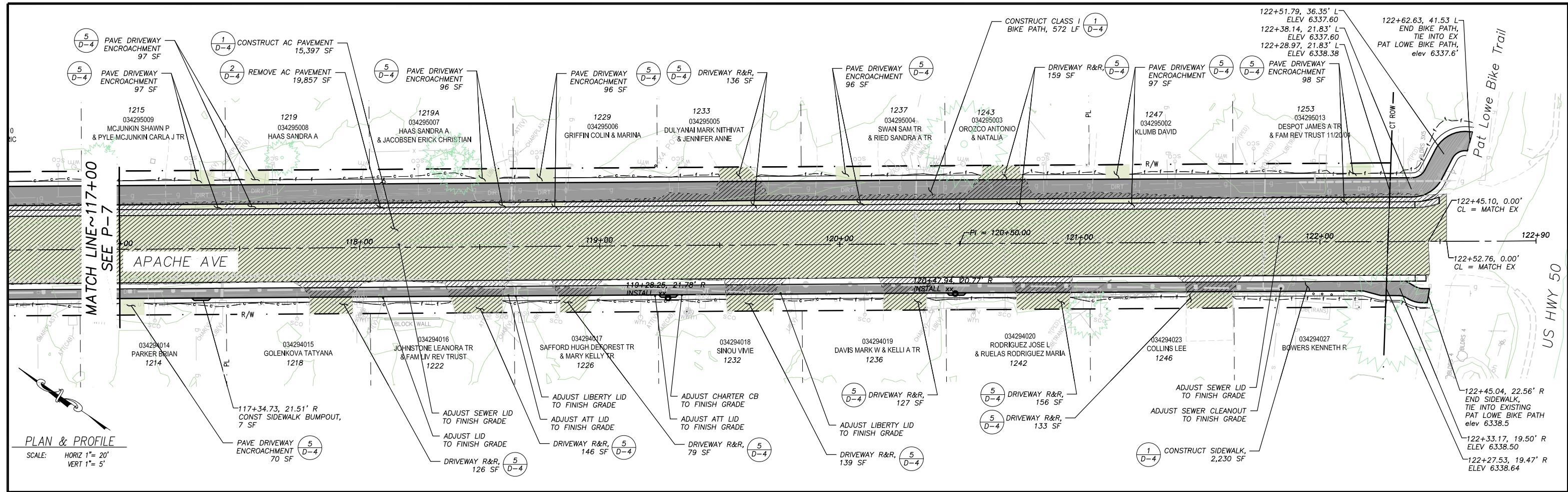
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ROAD NUMBER: ---



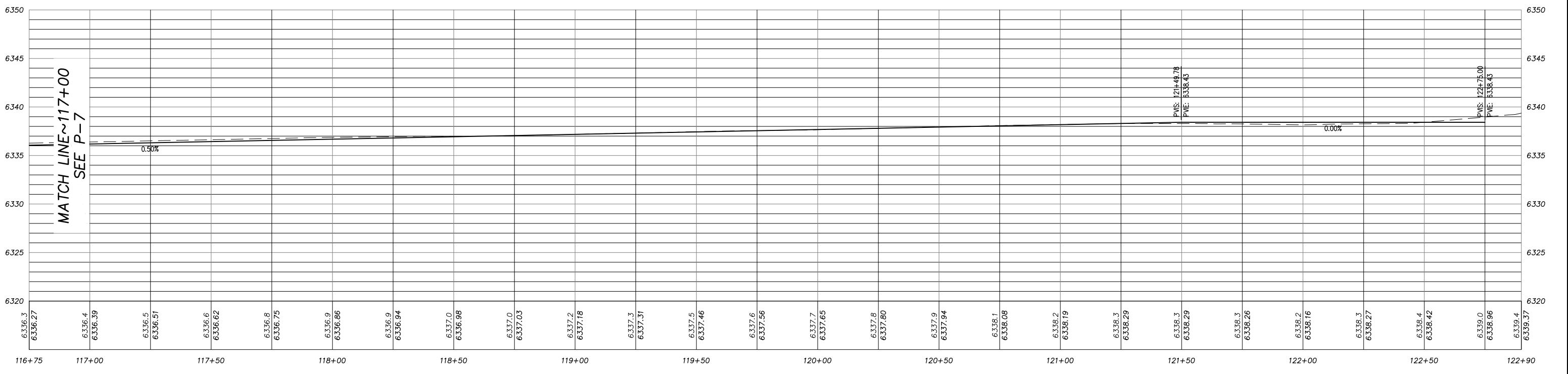
COUNTY OF EL DORADO  
COMMUNITY DEVELOPMENT SERVICES  
TRANSPORTATION DEPARTMENT

APACHE AVENUE PEDESTRIAN SAFETY AND  
CONNECTIVITY PROJECT  
PROPOSED CENTER LINE PROFILE  
STA 111+50 TO 117+00

SHEET  
**P-7**  
11 OF 33  
CONTRACT NO.  
**7922**  
CIP No.  
**95199**



PLAN & PROFILE  
 SCALE: HORIZ 1" = 20'  
 VERT 1" = 5'



APACHE AVE STA 117+00 TO 122+50

FOR REDUCED PLANS

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 DATE: 12/2023  
 ROAD NUMBER: ---

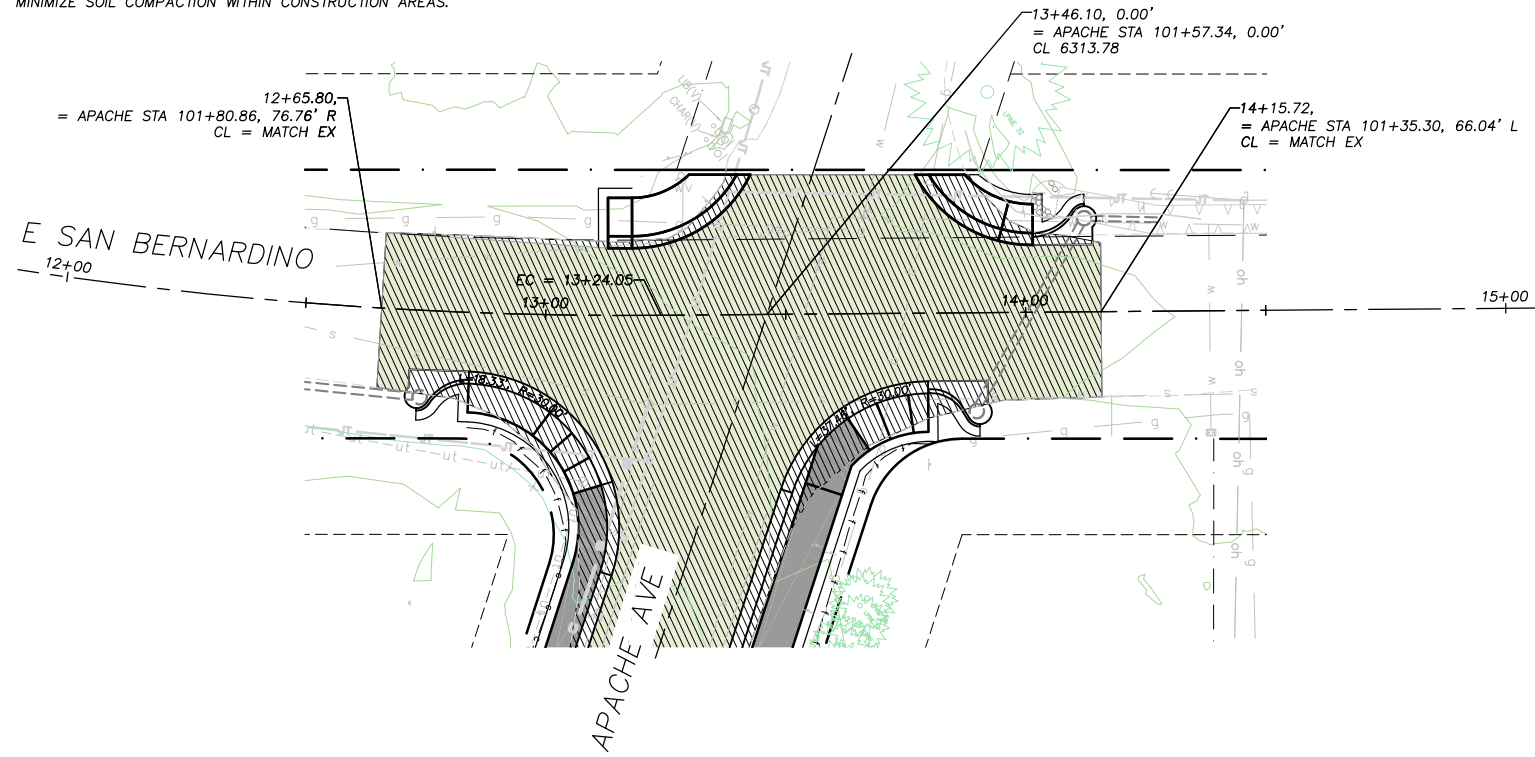


COUNTY OF EL DORADO  
 COMMUNITY DEVELOPMENT SERVICES  
 TRANSPORTATION DEPARTMENT

APACHE AVENUE PEDESTRIAN SAFETY AND  
 CONNECTIVITY PROJECT  
 PROPOSED CENTER LINE PROFILE  
 STA 117+00 TO US HWY 50

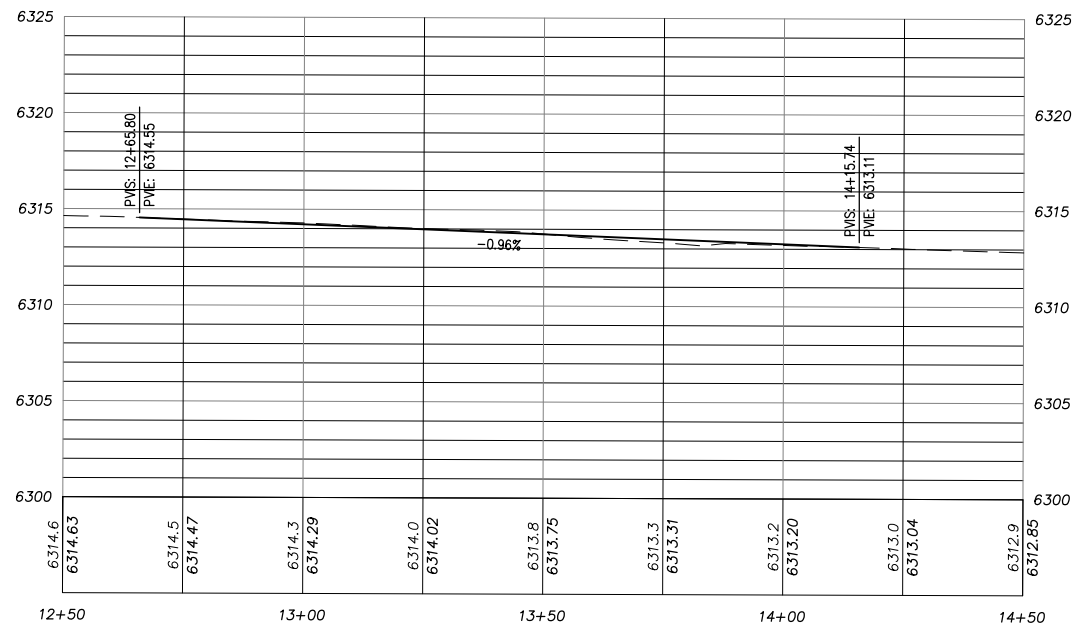
SHEET  
**P-8**  
 12 OF 33  
 CONTRACT NO.  
**7922**  
 CIP No.  
**95199**

NOTE:  
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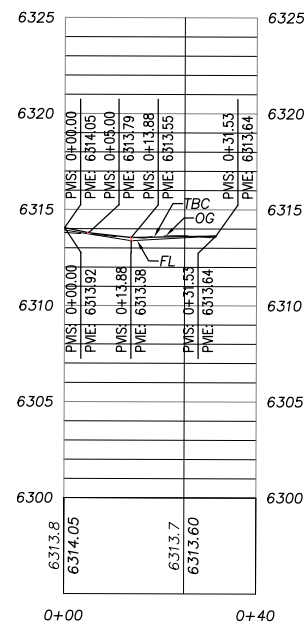


PLAN & PROFILE

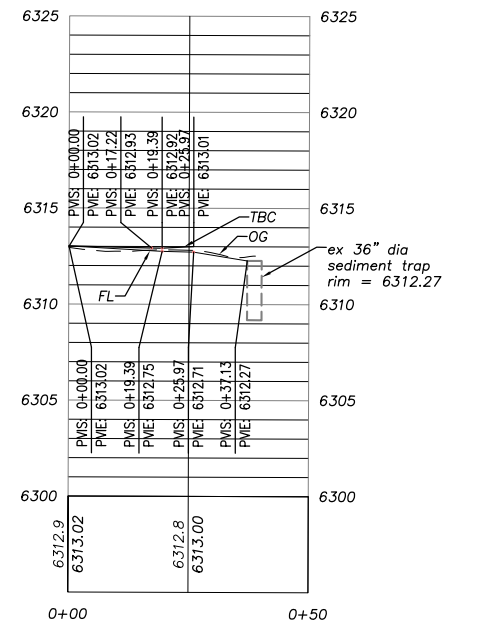
SCALE: HORIZ 1" = 20'  
VERT 1" = 5'



SAN BERNARDINO CL PROFILE



SAN BERNARDINO NW CR TBC AND FL PROFILES



SAN BERNARDINO NE CR TBC AND FL PROFILES

Drawing name: \\D:\Users\TD-SIT-Engineering\Civil\_3D\PROJECTS\09199\Engineering\MP\AN\APACHE.MPJ\AN.dwg

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DECEMBER 31, 2023  
DATE:

DESIGNED: DMG  
DRAWN: DMG  
CHECKED: DWK  
DATE: 12/2023  
ROAD NUMBER: ---

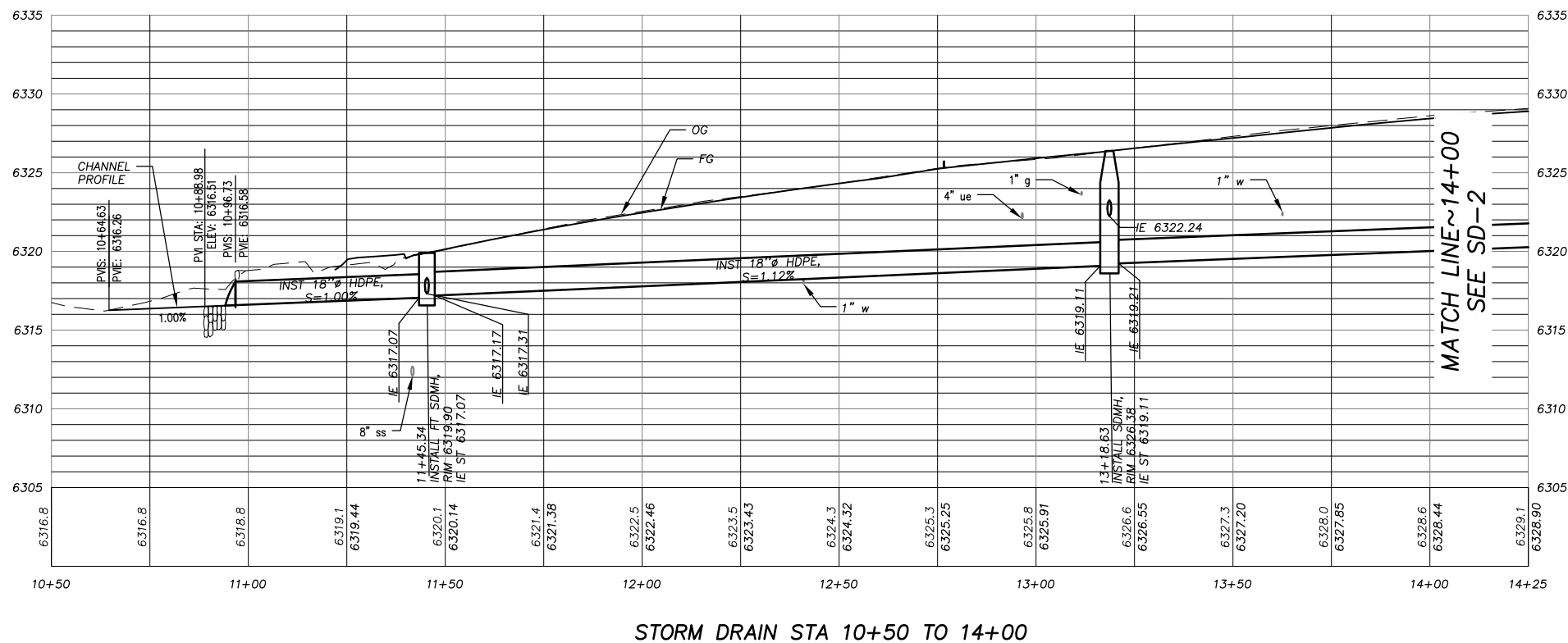
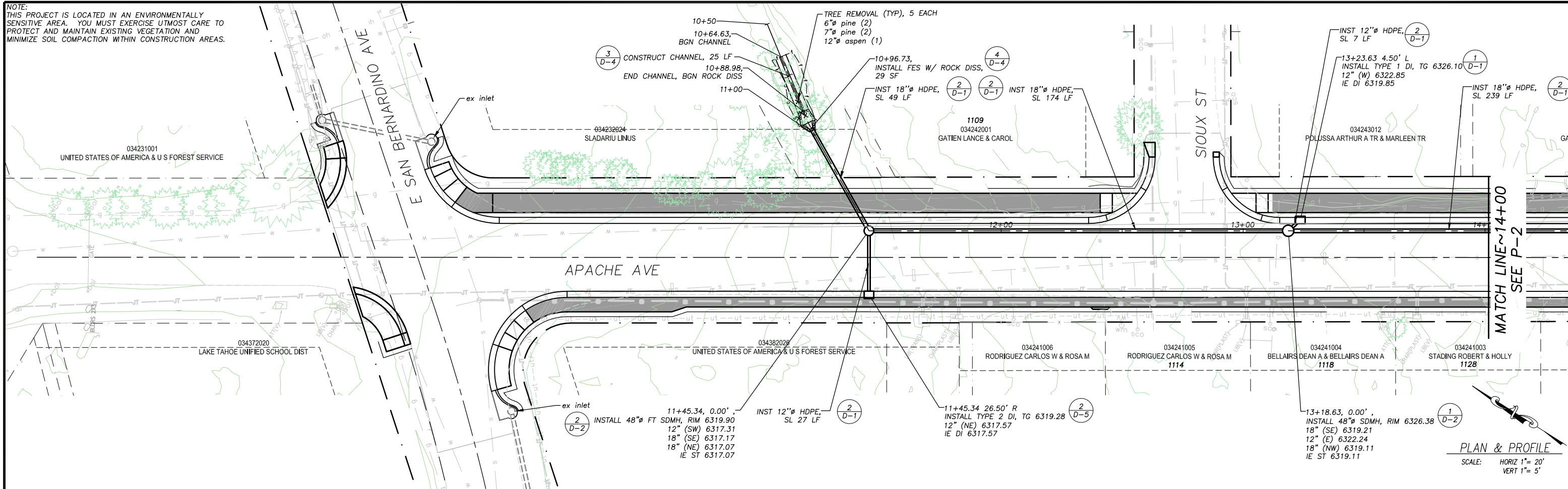


COUNTY OF EL DORADO  
COMMUNITY DEVELOPMENT SERVICES  
TRANSPORTATION DEPARTMENT

APACHE AVENUE PEDESTRIAN SAFETY AND  
CONNECTIVITY PROJECT

SHEET  
**P-9**  
13 OF 33  
CONTRACT NO.  
**7922**  
CIP No.  
**95199**

NOTE:  
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REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*[Signature]*  
REGISTERED CIVIL ENGINEER  
DECEMBER 31, 2023  
DATE:

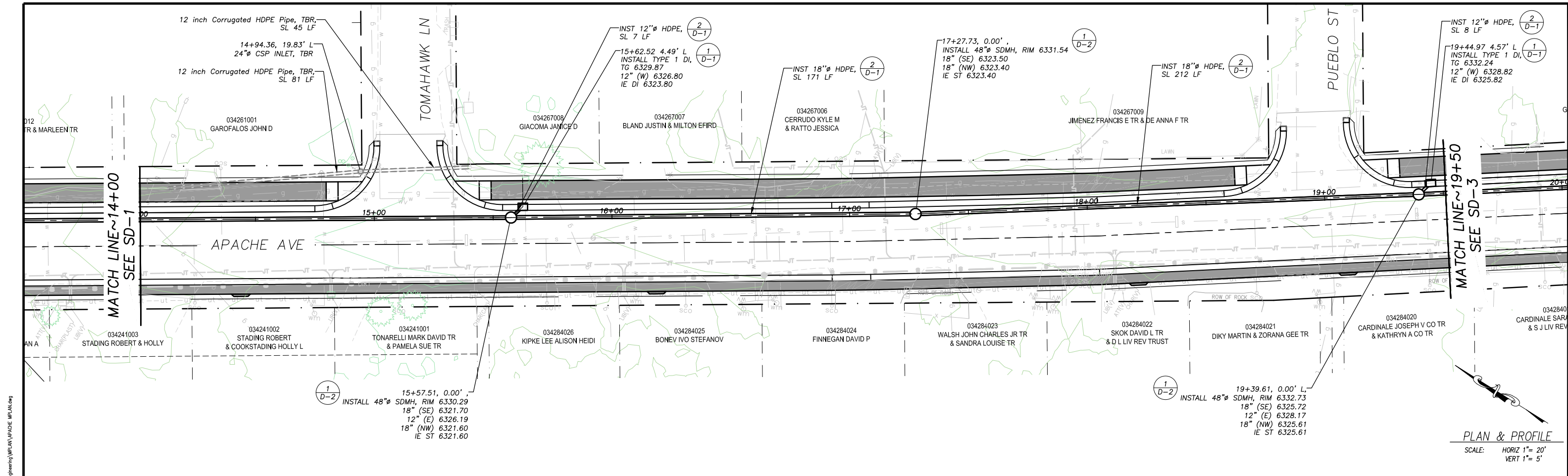
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DATE: 12/2023  
ROAD NUMBER: ---



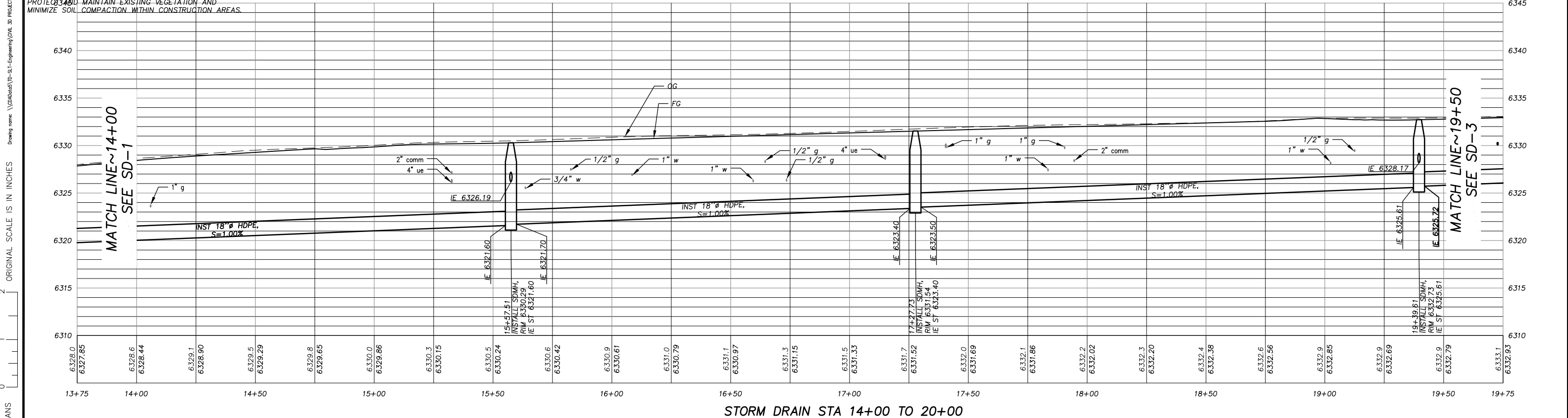
COUNTY OF EL DORADO  
COMMUNITY DEVELOPMENT SERVICES  
TRANSPORTATION DEPARTMENT

APACHE AVENUE PEDESTRIAN SAFETY AND  
CONNECTIVITY PROJECT  
STORM DRAIN STA 10+50 TO 14+00

SHEET  
SD-1  
14 OF 33  
CONTRACT NO.  
7922  
CIP No.  
95199



NOTE:  
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 DATE:

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 DRAWN: DMG  
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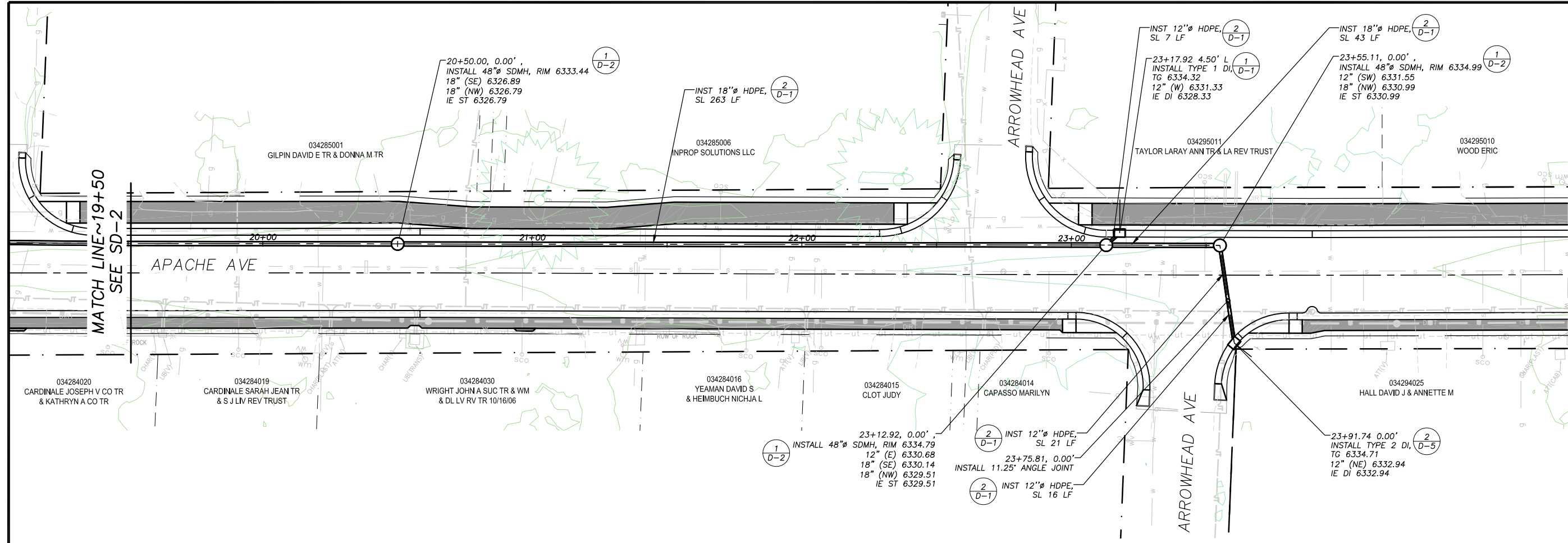


COUNTY OF EL DORADO  
 COMMUNITY DEVELOPMENT SERVICES  
 TRANSPORTATION DEPARTMENT

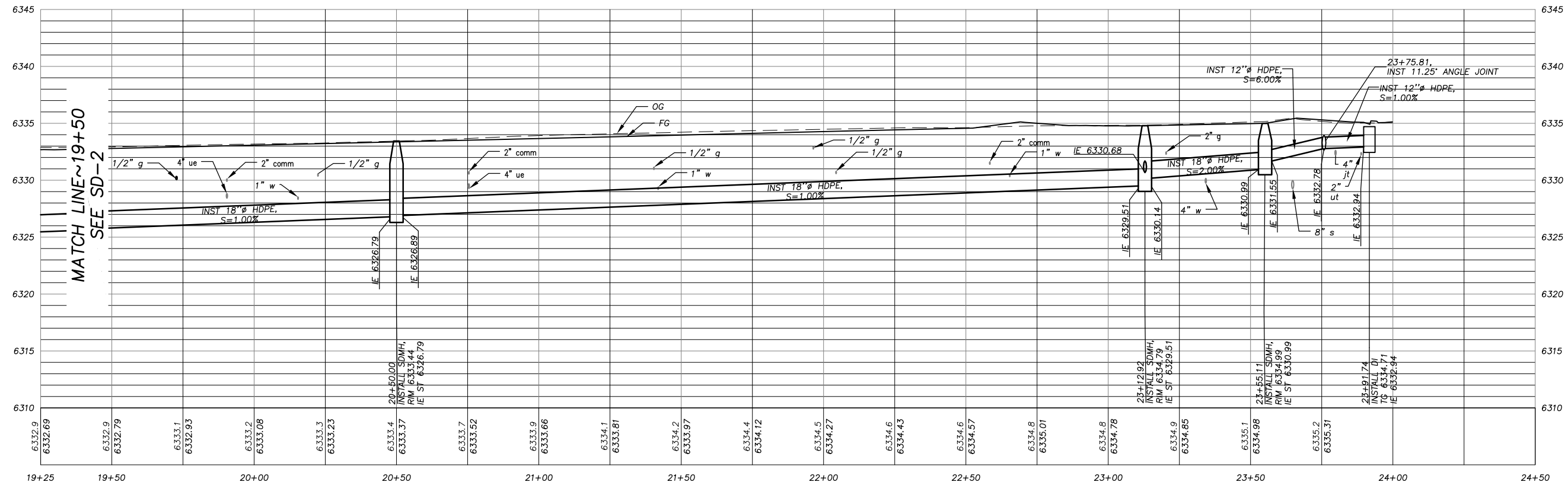
APACHE AVENUE PEDESTRIAN SAFETY AND CONNECTIVITY PROJECT  
 STORM DRAIN STA 14+00 TO 19+50

SHEET SD-2  
 15 OF 33  
 CONTRACT NO. 7922  
 CIP No. 95199

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PLAN & PROFILE  
SCALE: HORIZ 1" = 20'  
VERT 1" = 5'



STORM DRAIN STA 19+50 TO 24+00

REVISION	NUMBER	DATE	DESCRIPTION	BY



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TRANSPORTATION DEPARTMENT

APACHE AVENUE PEDESTRIAN SAFETY AND  
CONNECTIVITY PROJECT  
STORM DRAIN STA 19+50 TO 24+00

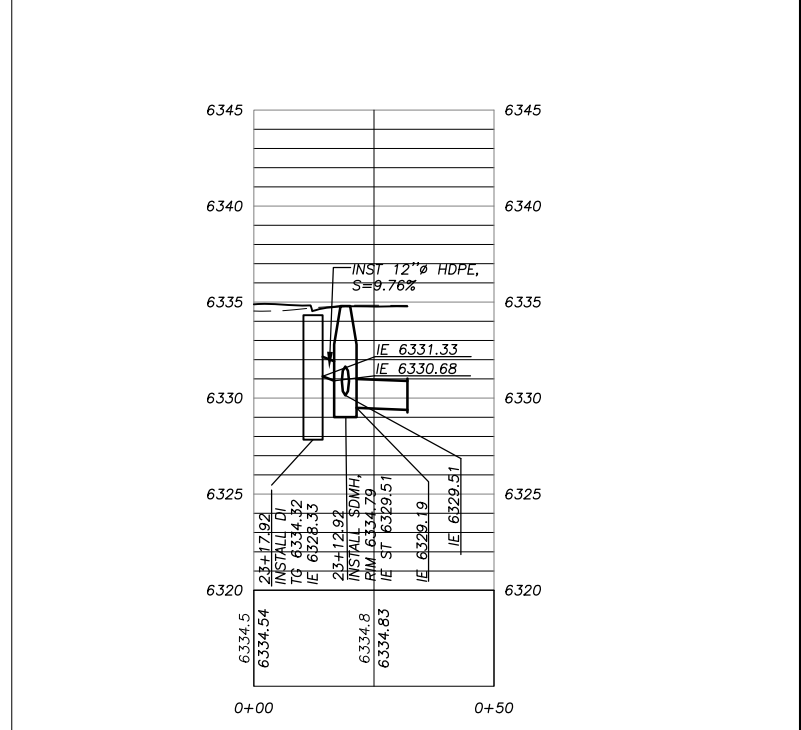
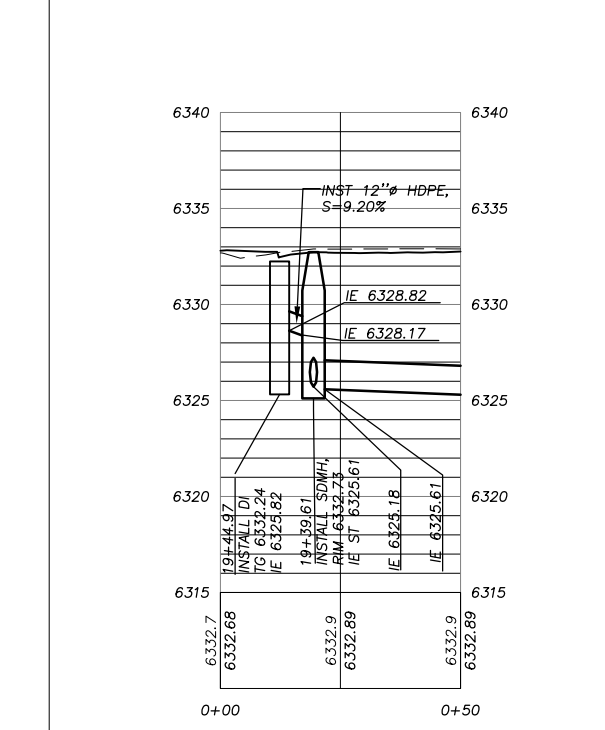
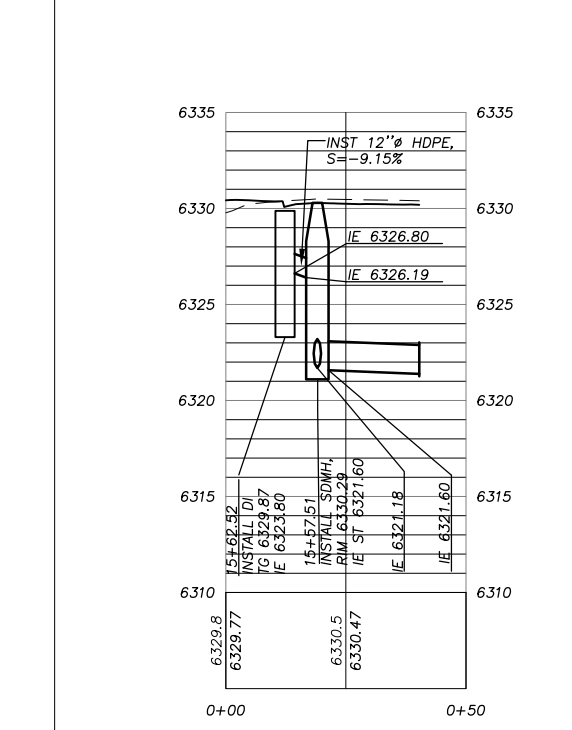
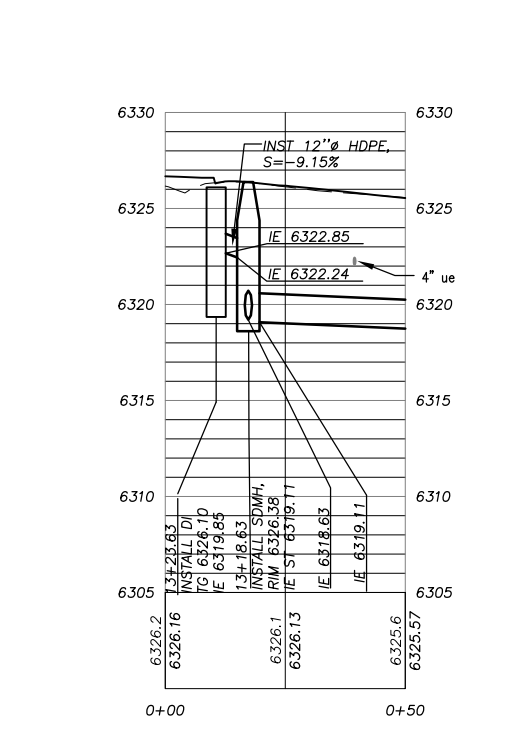
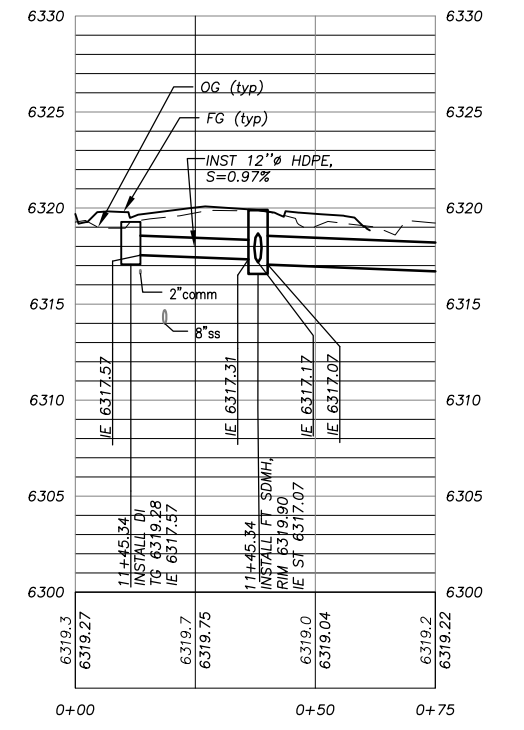
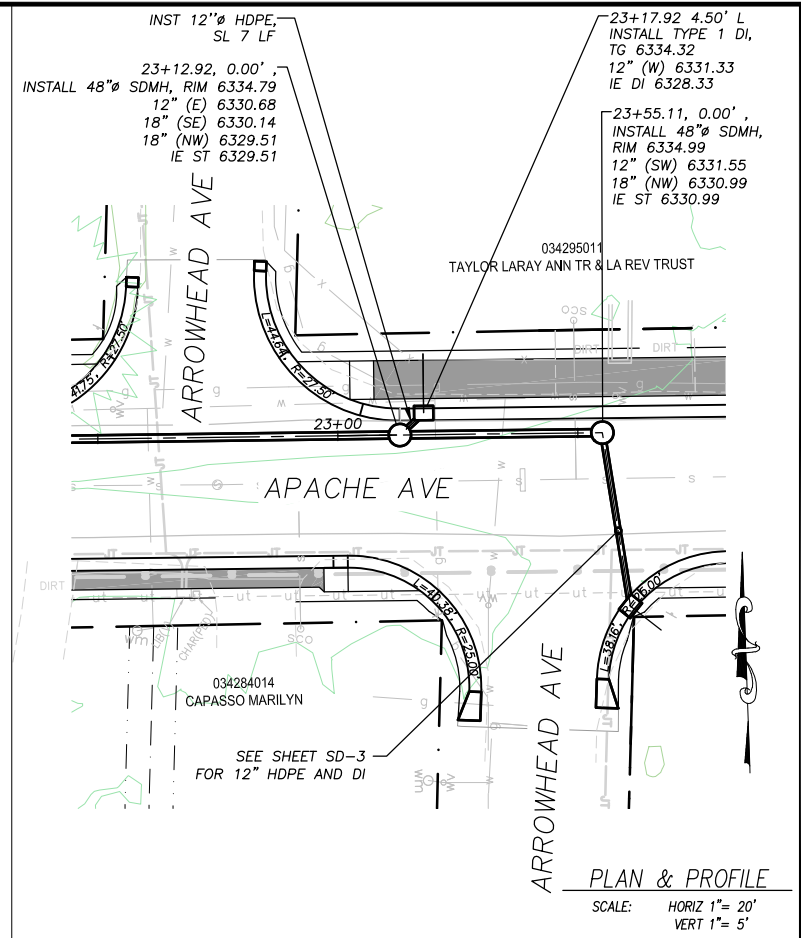
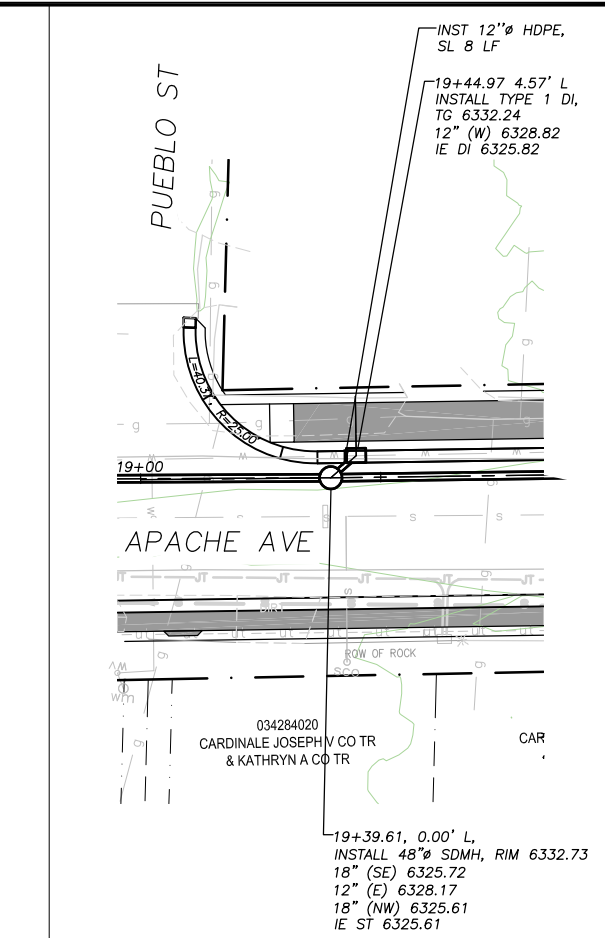
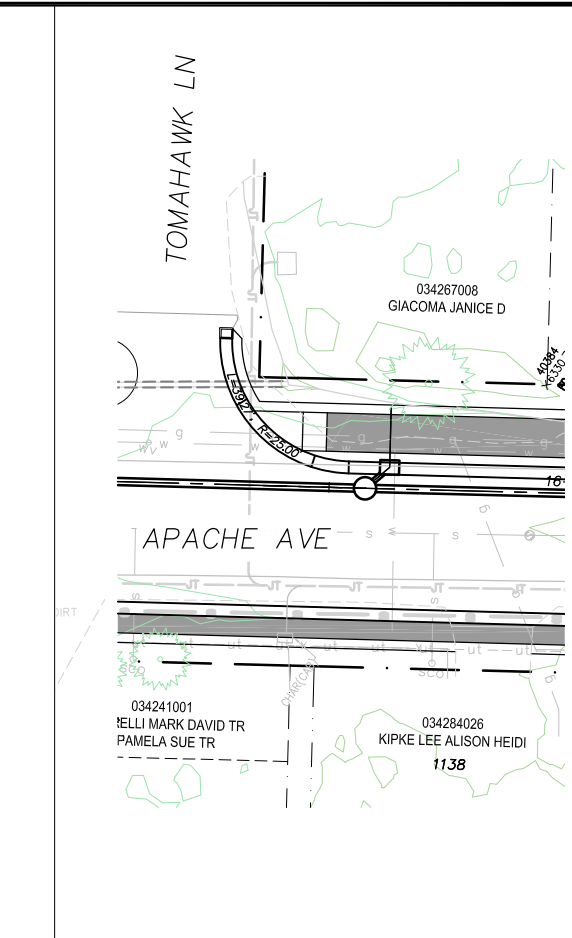
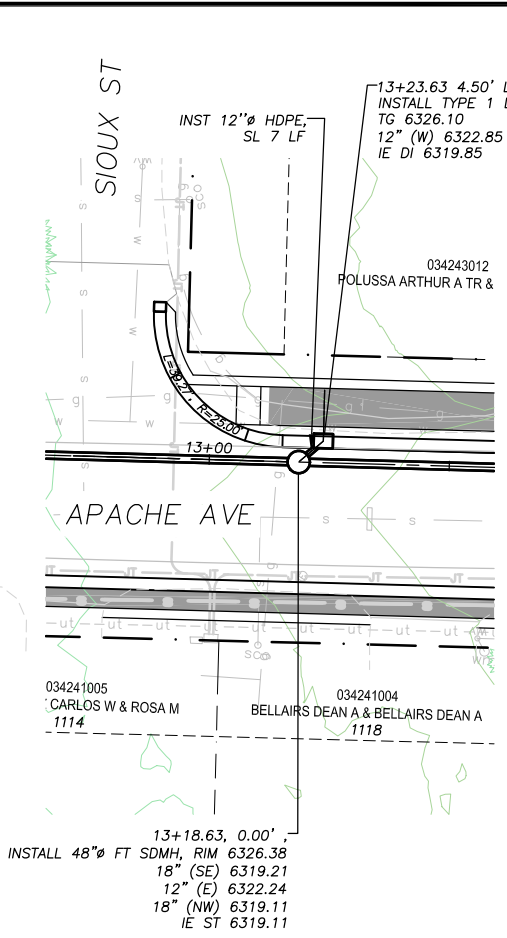
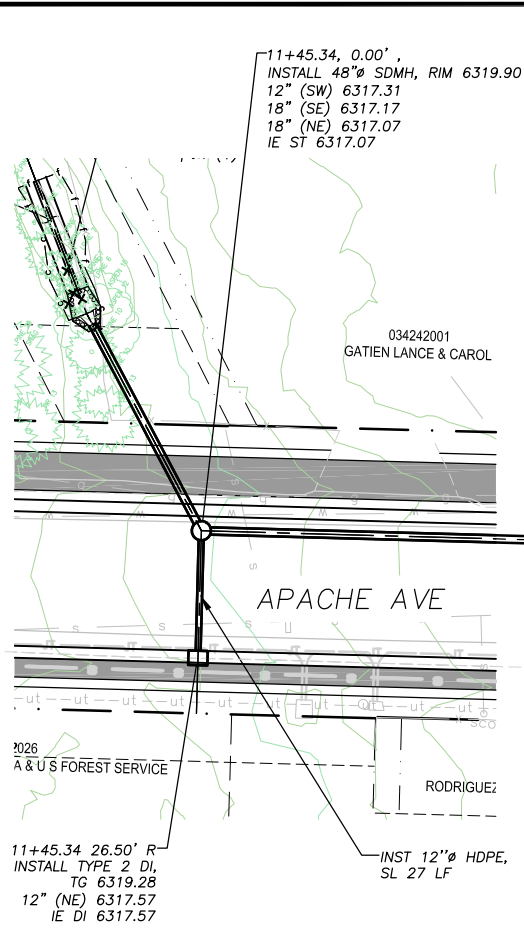
SHEET  
**SD-3**  
16 OF 33  
CONTRACT NO.  
**7922**  
CIP No.  
**95199**



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2



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 DECEMBER 31, 2023  
 DATE:

DESIGNED: DMG  
 DRAWN: DMG  
 CHECKED: DWK  
 DATE: 12/2023  
 ROAD NUMBER: ---

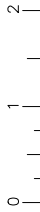


COUNTY OF EL DORADO  
 COMMUNITY DEVELOPMENT SERVICES  
 TRANSPORTATION DEPARTMENT

APACHE AVENUE PEDESTRIAN SAFETY AND  
 CONNECTIVITY PROJECT  
 DRAIN INLETS

SHEET  
 SD-4  
 17 OF 33  
 CONTRACT NO.  
 7922  
 CIP No.  
 95199

Drawing name: \\CD\Users\TD-SJT-Engineering\Civil\_3D\_PROJECTS\95199\Engineering\MP\PLAN\APACHE 0.dwg  
 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS



APACHE AVENUE PEDESTRIAN SAFETY AND CONNECTIVITY PROJECT QUANTITIES

PLAN SHEET NO.	STATION	CURB & GUTTER	VALLEY GUTTER	CROSSWALK LANDING	CURB OPENING	TYPE 1 CURB TRANS	TYPE 2 CURB TRANS	CURB RAMP	REMOVE AC PAVEMENT	AC PAVEMENT	CLASS 1 BIKE PATH	SIDEWALK	DRIVEWAY R&R	PAVE DRIVEWAY ENCROACHMENT	ADJUST ACCESS BOX	ADJUST FRAME AND LID
		LF	LF	SF	EA	EA	EA	SF	SF	SF	LF	SF	SF	SF	EA	EA
P-1	100+00 TO 106+00	832	47	356	3	1	1									
P-2	106+00 TO 111+50	1036				4										
P-3	111+50 TO 117+00	1027				2	2									
P-4	117+00 TO 122+90	1094														
P-5	100+00 TO 106+00							598	22960	18789	356	1822	446			3
P-6	106+00 TO 111+50							552	22328	17683	411	2232	1395		5	3
P-7	111+50 TO 117+00							550	22463	17841	478	1854	1368	167	1	2
P-8	117+00 TO 122+90								19857	15397	572	2251	1201	747	7	2
TOTALS		3989	47	356	3	7	3	1700	87608	69710	1817	8159	4410	914	13	10

P1 - P8 QUANTITIES

NOTES:

- CURB RAMP QUANTITY INCLUDES VALLEY GUTTER AND CURB TRANSITION LIMITS.
- CLASS 2 AGGREGATE BASE QUANTITIES INCLUDE SHOULDERS AND BASE UNDER CURB & GUTTER, SIDEWALK, AND CLASS 1 BIKE PATH.
- QUANTITY FOR ROCK SLOPE PROTECTION (60 LB, CLASS III, METHOD A) IS INCLUDED IN ROCK ENERGY DISSIPATOR ON SHEET SD-1.
- [N] NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

APACHE AVENUE PEDESTRIAN SAFETY AND CONNECTIVITY PROJECT QUANTITIES

PLAN SHEET NO.	STATION	12" HDPE SD PIPE	18" HDPE SD PIPE	DI - TYPE 1	DI - TYPE 2 (NO HOOD)	48" DIA SD MH	48" FLAT TOP SD MH	CHANNEL	FES	RSP
		LF	LF	EA	EA	EA	EA	LF	EA	SF
SD-1	100+00 TO 106+00	34	462	1	1	1	1	25	1	29
SD-2	106+00 TO 111+50	14	383	2		3				
SD-3	111+50 TO 117+00	44	306	1	1	3				
TOTALS		92	1151	4	2	7	1	25	1	29

SD-1 TO SD-3 QUANTITIES

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
 DATE: **DECEMBER 31, 2023**

DESIGNED: DMG  
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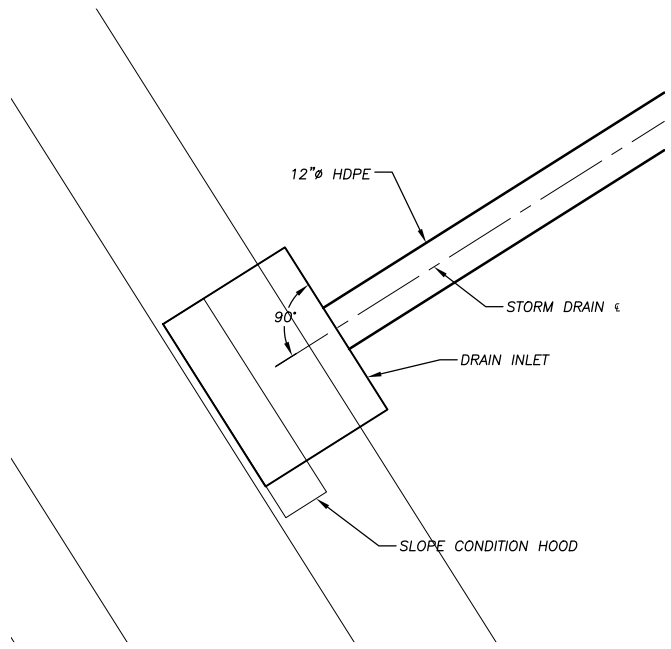


COUNTY OF EL DORADO  
 COMMUNITY DEVELOPMENT SERVICES  
 TRANSPORTATION DEPARTMENT

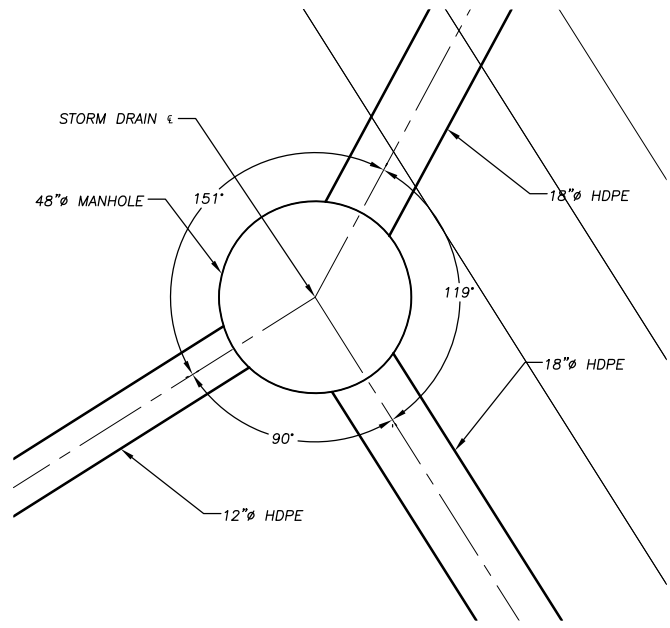
APACHE AVENUE PEDESTRIAN SAFETY AND  
 CONNECTIVITY PROJECT  
 P AND SD SHEET QUANTITIES

SHEET  
**Q-1**  
 18 OF 33  
 CONTRACT NO.  
**7922**  
 CIP No.  
**95199**

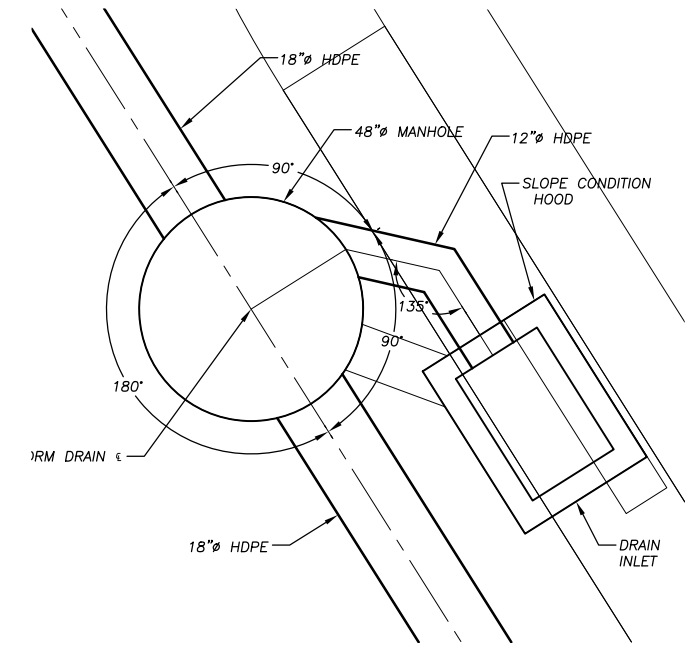
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 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED PLANS



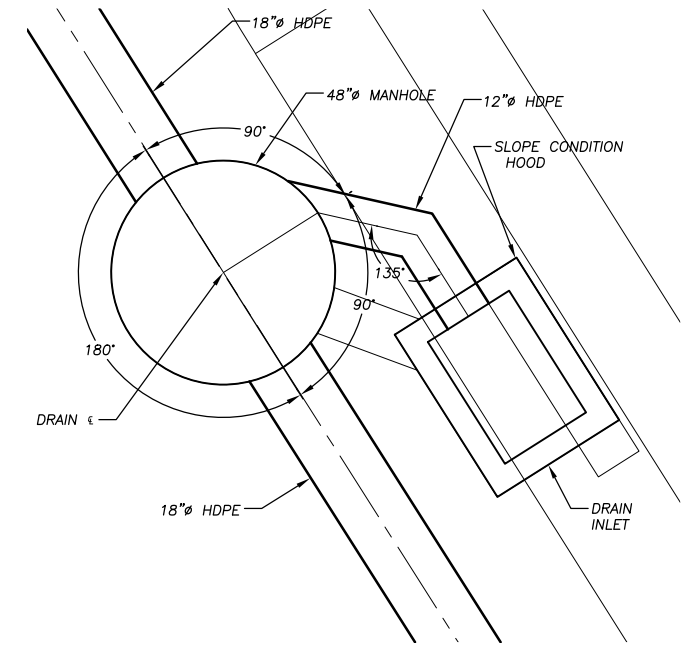
**DRAIN INLET AT APACHE 11+45.34 (SHEET SD-1)**



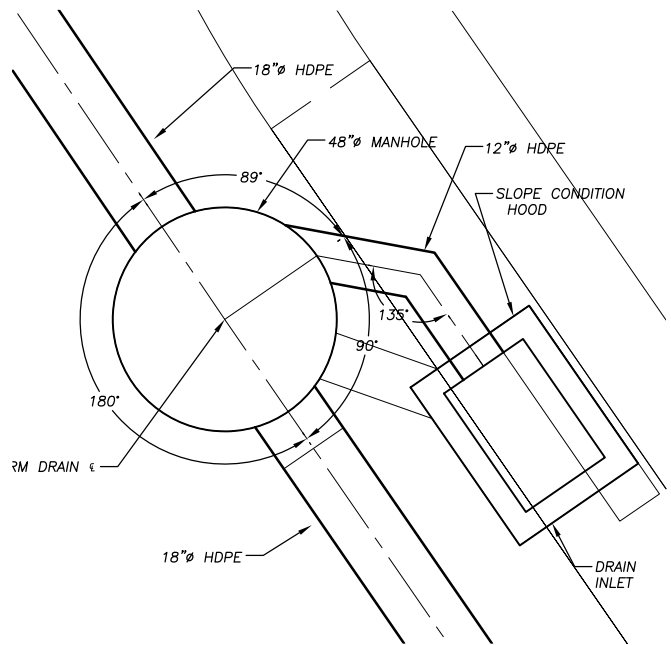
**48"Ø MANHOLE AT APACHE 11+45.34 (SHEET SD-1)**



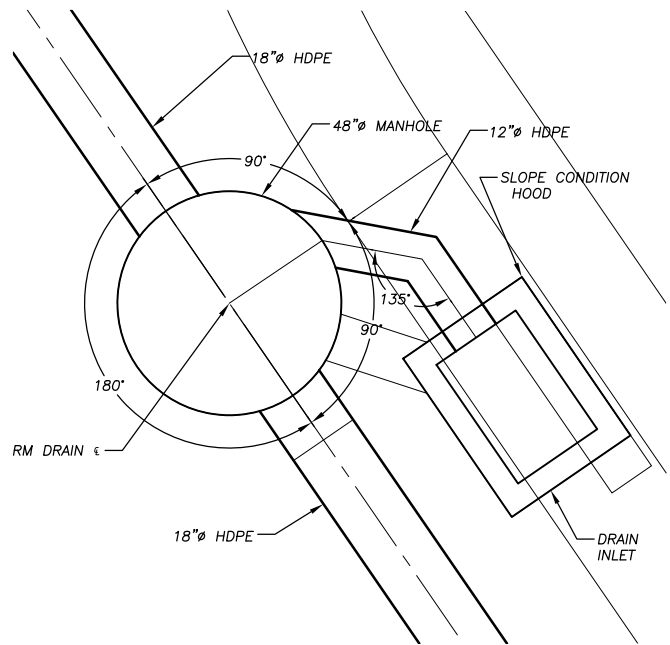
**DRAIN INLET AT APACHE 13+23.63 AND  
48"Ø MANHOLE AT APACHE 13+18.63 (SHEET SD-1)  
APACHE AVE & SIOUX ST**



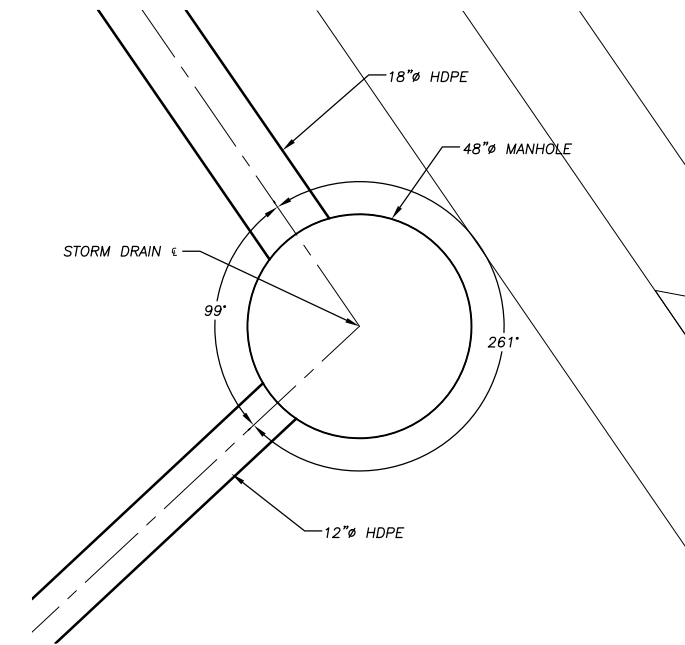
**DRAIN INLET AT APACHE 15+62.52 AND  
48"Ø MANHOLE AT APACHE 15+57.51 (SHEET SD-2)  
APACHE AVE & TOMAHAWK LN**



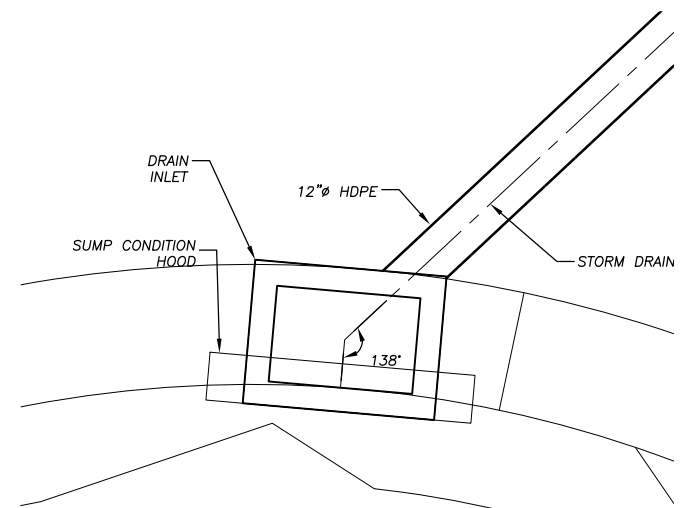
**DRAIN INLET AT APACHE 19+44.97 AND  
48"Ø MANHOLE AT APACHE 19+39.61 (SHEET SD-2)  
APACHE AVE & PUEBLO ST**



**DRAIN INLET AT APACHE 23+17.92 AND  
48"Ø MANHOLE AT APACHE 23+12.92 (SHEET SD-3)  
APACHE AVE & ARROWHEAD AVE**



**48"Ø MANHOLE AT APACHE 23+55.11 (SHEET SD-3)  
APACHE AVE & ARROWHEAD AVE**



**\*PIPE SHALL ENTER THROUGH FRONT FACE OF DI  
DRAIN INLET AT APACHE 23+92.19 (SHEET SD-3)  
APACHE AVE & ARROWHEAD AVE**

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
 REGISTERED CIVIL ENGINEER  
**DECEMBER 31, 2023**  
 DATE:

DESIGNED: DMG  
 DRAWN: DMG  
 CHECKED: DWK  
 DATE: 12/2023  
 ROAD NUMBER: ---



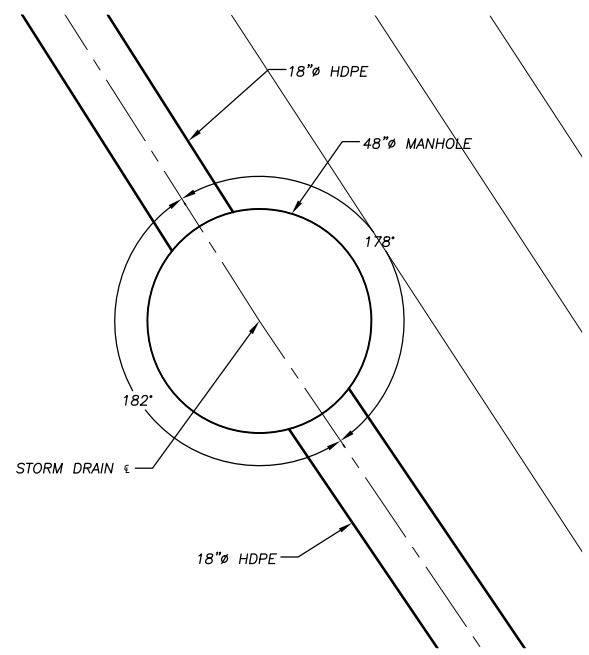
**COUNTY OF EL DORADO  
 COMMUNITY DEVELOPMENT SERVICES  
 TRANSPORTATION DEPARTMENT**

**APACHE AVENUE PEDESTRIAN SAFETY AND  
 CONNECTIVITY PROJECT  
 HORIZONTAL CONTROL**

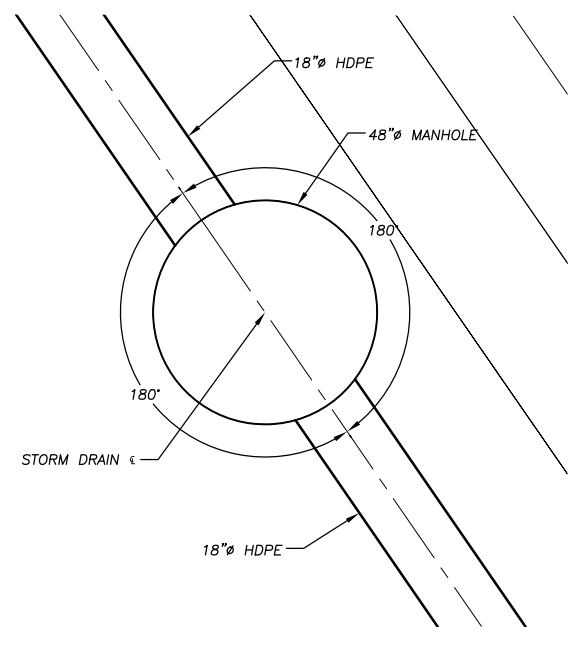
SHEET  
**HC-1**  
 19 OF 33  
 CONTRACT NO.  
**7922**  
 CIP No.  
**95199**

Drawing name: \\CD\Users\TD-SLT-Engineering\Civil\_3D\PROJECTS\95199\Engineering\MP\AV\APACHE\_HC-1.dwg

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES



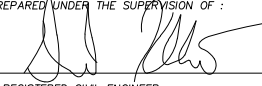
**48"Ø MANHOLE AT APACHE 17+27.73 (SHEET SD-2)**  
APACHE AVE BETWEEN TOMAHAWK & PUEBLO



**48"Ø MANHOLE AT APACHE 20+50.00 (SHEET SD-3)**  
APACHE AVE BETWEEN PUEBLO & ARROWHEAD

REVISION	NUMBER	DATE	DESCRIPTION	BY



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 REGISTERED CIVIL ENGINEER  
**DECEMBER 31, 2023**  
 DATE:

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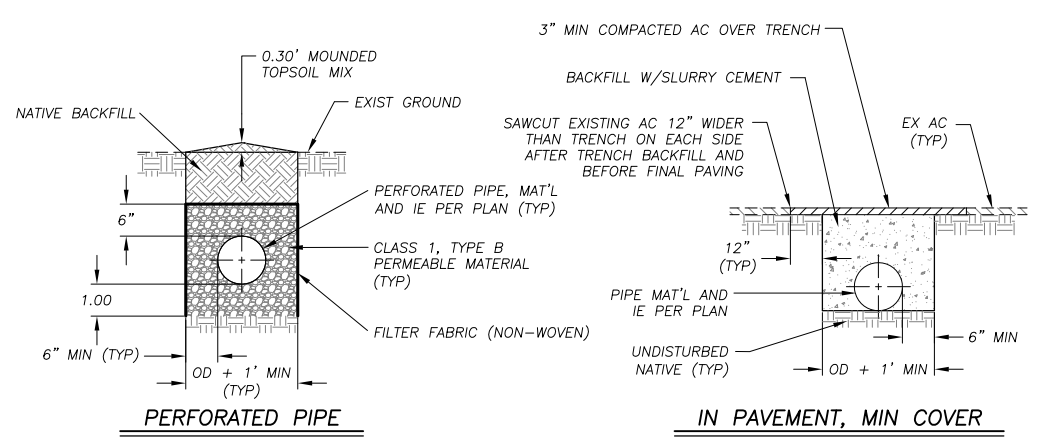
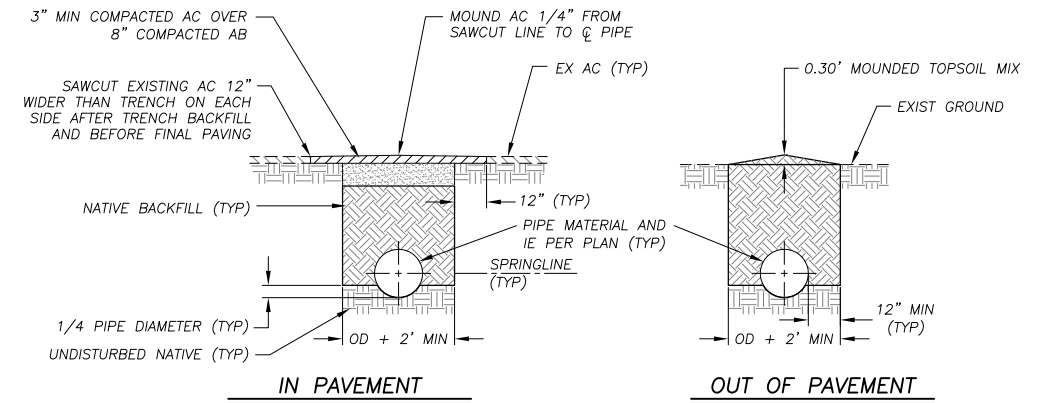
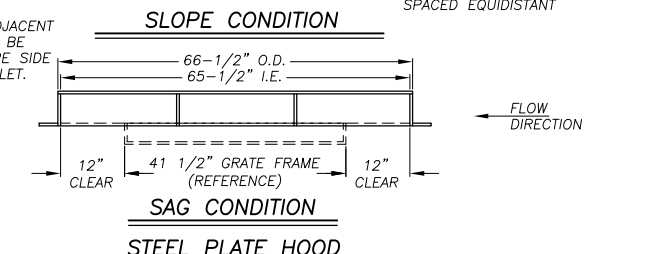
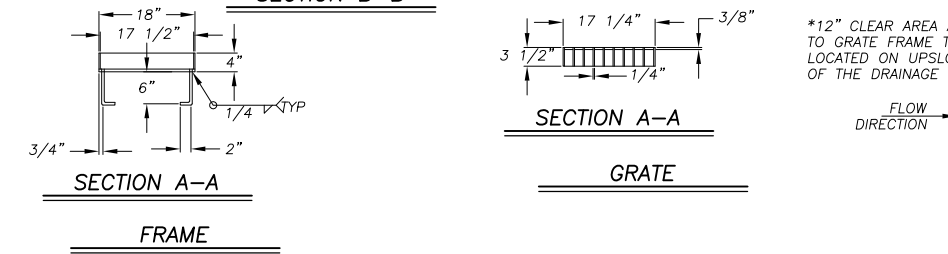
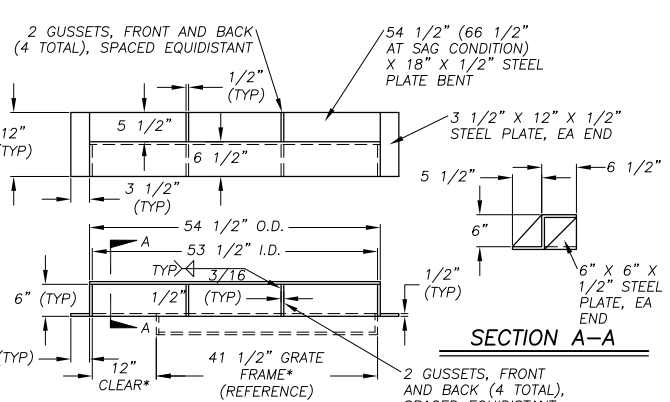
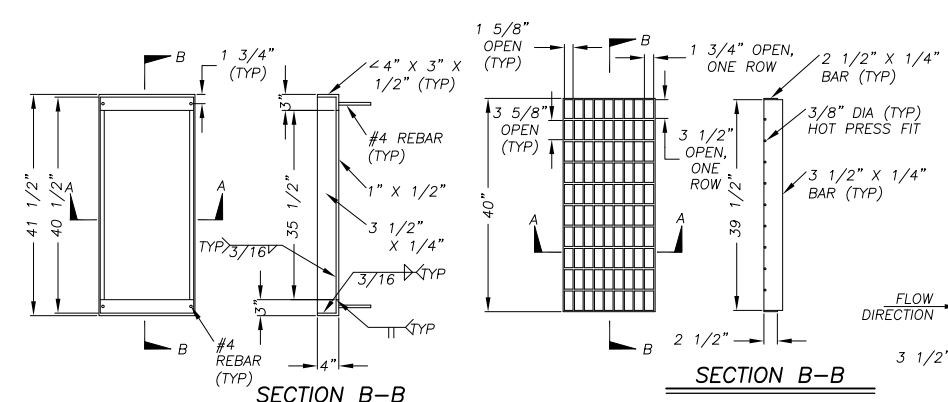
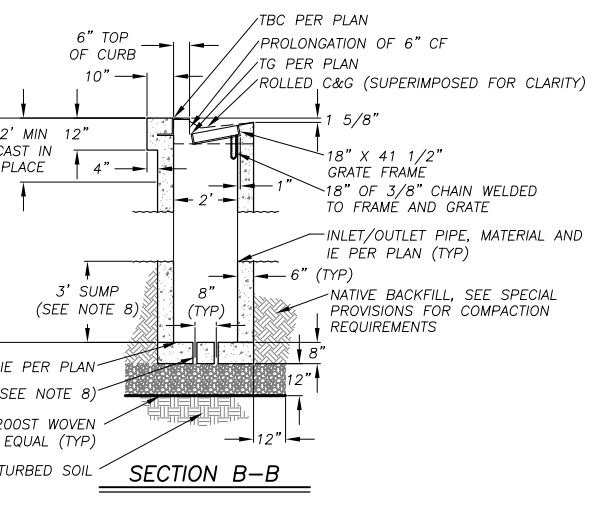
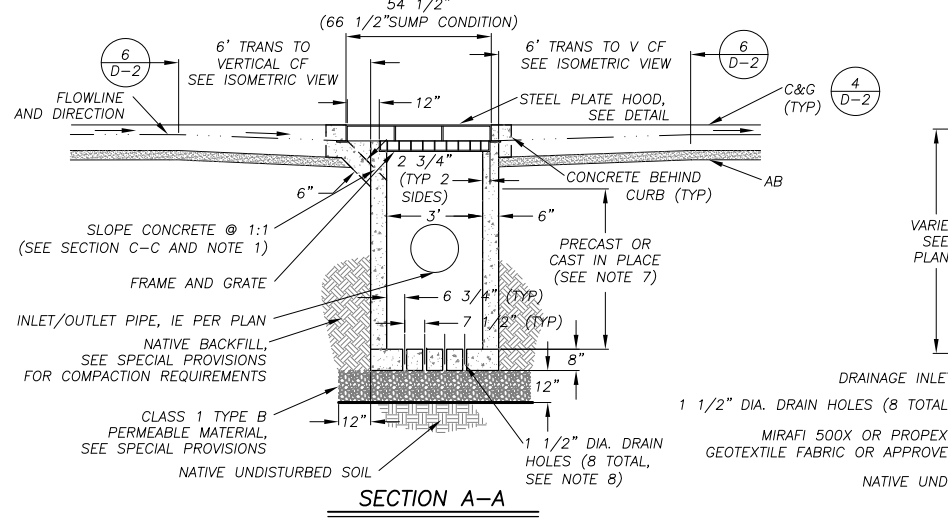
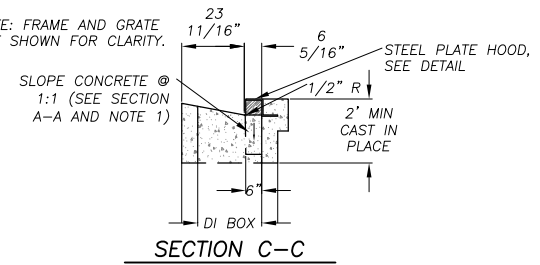
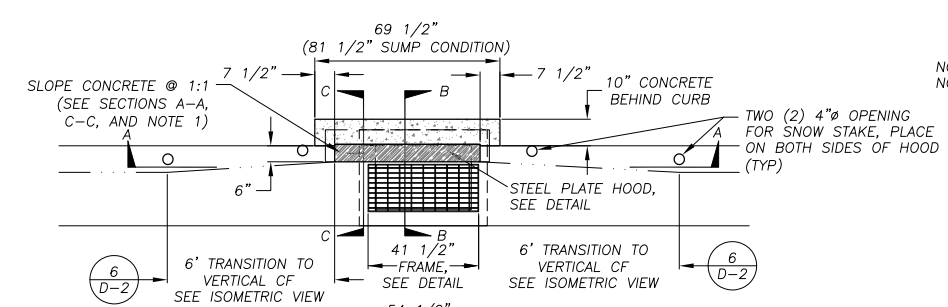
**COUNTY OF EL DORADO**  
**COMMUNITY DEVELOPMENT SERVICES**  
**TRANSPORTATION DEPARTMENT**

**APACHE AVENUE PEDESTRIAN SAFETY AND**  
**CONNECTIVITY PROJECT**  
**HORIZONTAL CONTROL**

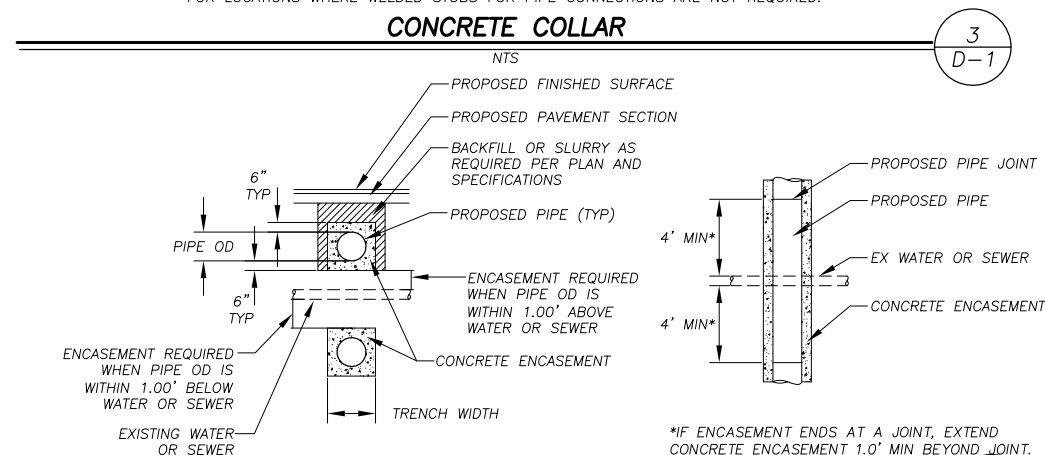
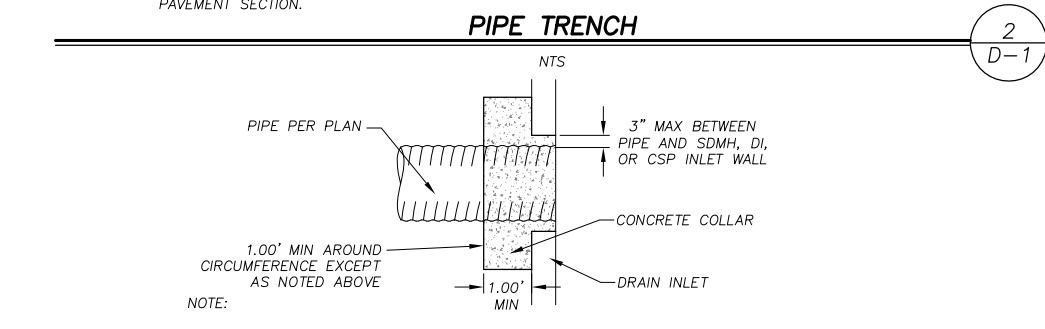
SHEET  
**HC-2**  
 20 of 33  
 CONTRACT NO.  
**7922**  
 CIP No.  
**95199**

Drawing name: \\C:\Data\511-TL-Engineering\CIVIL 3D PROJECTS\95199\Engineering\WPLAN\APACHE DETAILS.dwg

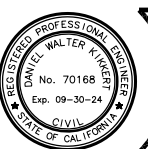
ORIGINAL SCALE IS IN INCHES  
FOR REDUCED PLANS



- NOTES:
- SEE SPECIAL PROVISIONS FOR LOCATIONS WHERE PIPE TRENCH BACKFILL SHALL BE SLURRY CEMENT.
  - FOR REMOVAL OF EXISTING PIPE IN PAVEMENT: PRIOR TO PAVING, SAWCUT THE EXISTING AC PAVEMENT 12" WIDER THAN THE TRENCH ON EACH SIDE AND EXCAVATE AS REQUIRED TO ACCOMMODATE THE NEW PAVEMENT SECTION.



REVISION	NUMBER	DATE	DESCRIPTION	BY



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 REGISTERED CIVIL ENGINEER  
**DECEMBER 31, 2023**  
 DATE:

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 DRAWN: DMG  
 CHECKED: DWK  
 DATE: 12/2023  
 ROAD NUMBER: ---

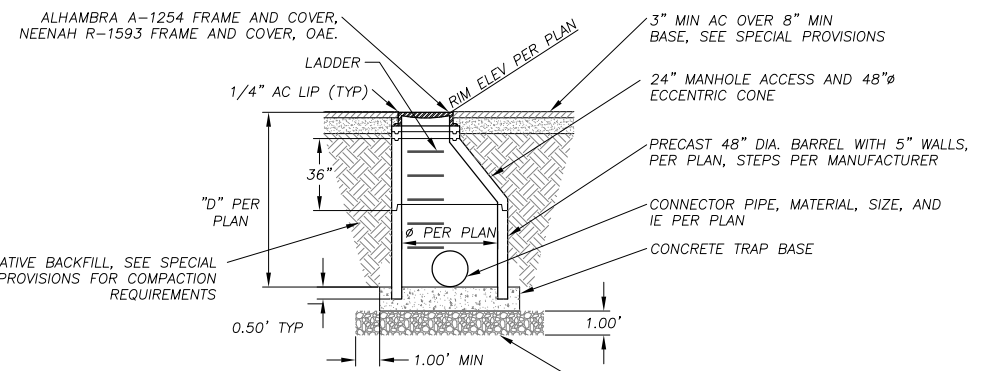


COUNTY OF EL DORADO  
 COMMUNITY DEVELOPMENT SERVICES  
 DEPARTMENT OF TRANSPORTATION

APACHE AVENUE PEDESTRIAN SAFETY AND  
 CONNECTIVITY PROJECT  
 DETAIL SHEET

SHEET  
**D-1**  
 21 OF 33  
 CONTRACT NO.  
**7922**  
 CIP No.  
**95199**

Drawing name: \CD\Bata\511\SLT-Engineering\CIVIL 3D PROJECTS\95199\Engineering\PLAN\APACHE DETAILS.dwg  
ORIGINAL SCALE IS IN INCHES  
2  
1  
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FOR REDUCED PLANS  
REVISION

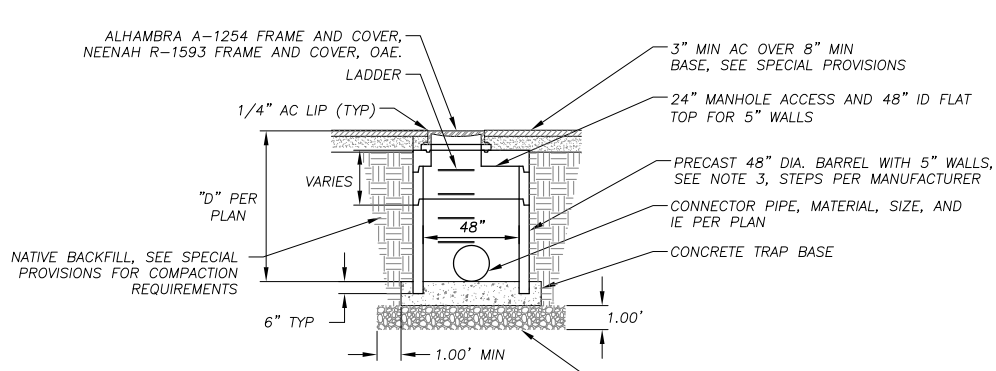


- NOTES:
1. BARREL AND CONE REINFORCEMENT PER MANUFACTURER'S REQUIREMENT, SEE SPECIAL PROVISIONS.
  2. SEE SPECIAL PROVISIONS FOR SUBGRADE COMPACTION REQUIREMENTS.
  3. LADDER INSTALLED PER MANUFACTURER SPECIFICATIONS.
  4. CONTRACTOR TO USE CONCENTRIC CONE WHEN ECCENTRIC CONE HEIGHT WILL NOT ACCOMMODATE STORM DRAIN PIPES.

**48" STORM DRAIN MANHOLE**

NTS

1  
D-2

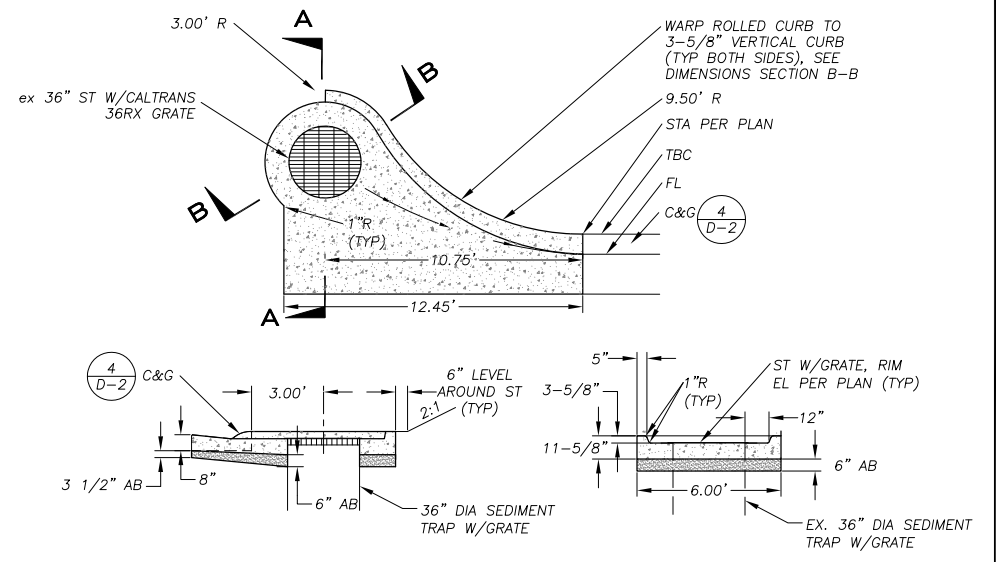


- NOTES:
1. BARREL, CONE, AND FLAT TOP REINFORCEMENT PER MANUFACTURER'S REQUIREMENT, SEE SPECIAL PROVISIONS.
  2. SEE SPECIAL PROVISIONS FOR SUBGRADE COMPACTION REQUIREMENTS.
  3. LADDER INSTALLED PER MANUFACTURER SPECIFICATIONS.

**48" STORM DRAIN MANHOLE W/ FLAT TOP**

NTS

2  
D-2



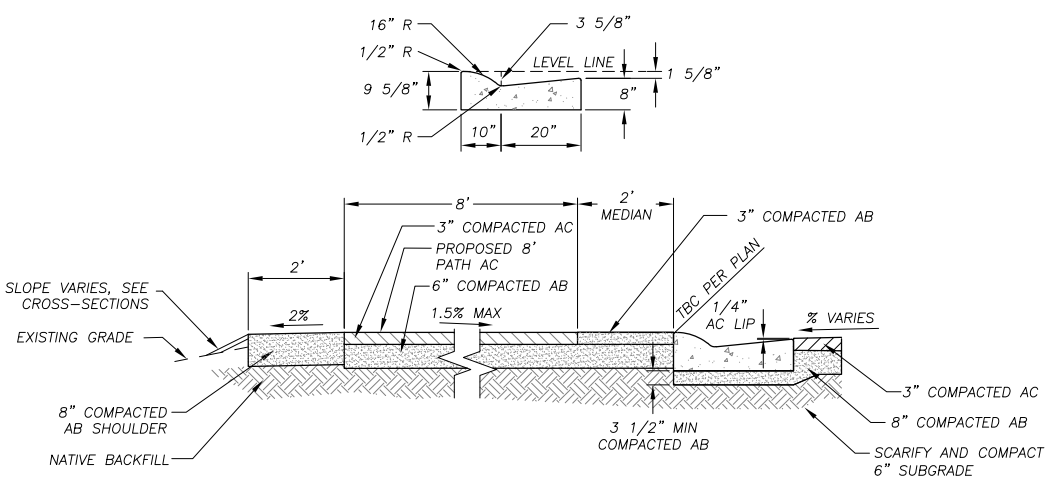
SECTION A-A

SECTION B-B

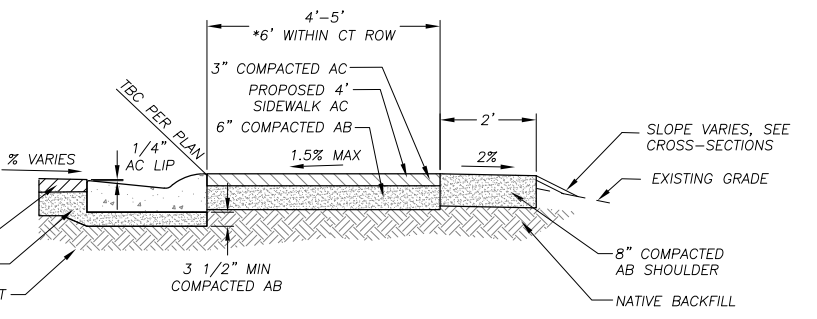
**CURB OPENING**

NTS

3  
D-2



**CLASS I BIKE PATH**

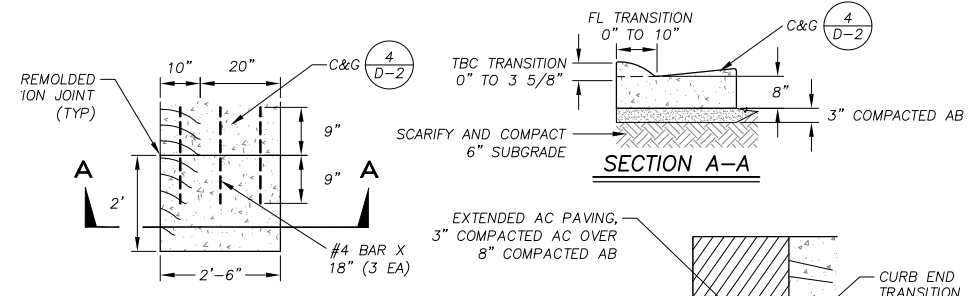


**AC SIDEWALK**

**ROLLED CURB TYPE A**

NTS

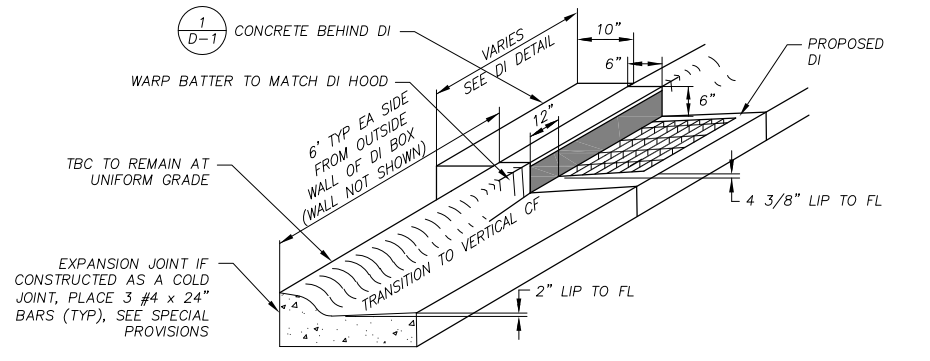
4  
D-2



**TYPE 1 CURB END TRANSITION**

NTS

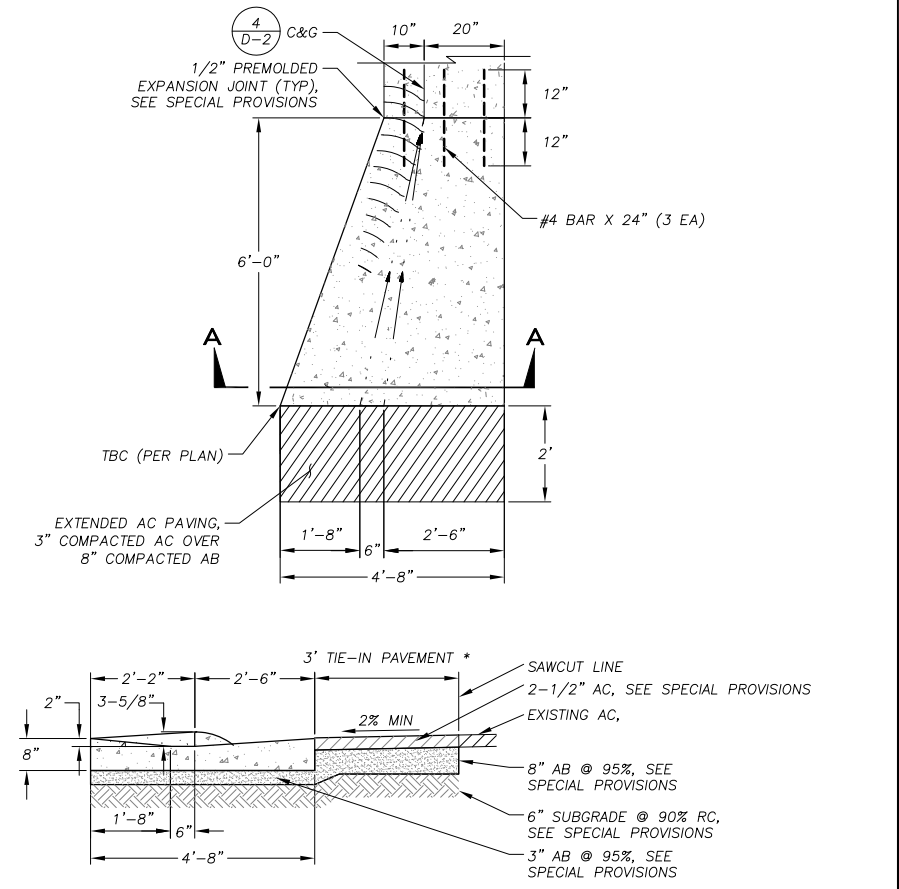
5  
D-2



**C&G TO DI**

NTS

6  
D-2



**TYPE 2 CURB END TRANSITION**

NTS

7  
D-2

- NOTES:
1. IN AREAS WHERE TYPE 1 CURB END TRANSITIONS TO AC DRIVEWAY, CONTRACTOR TO CONSTRUCT TRANSITION PER DETAIL 5/D-2

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*[Signature]*  
REGISTERED CIVIL ENGINEER  
DECEMBER 31, 2023  
DATE:

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DRAWN: DMG  
CHECKED: DWK  
DATE: 12/2023  
ROAD NUMBER: ---



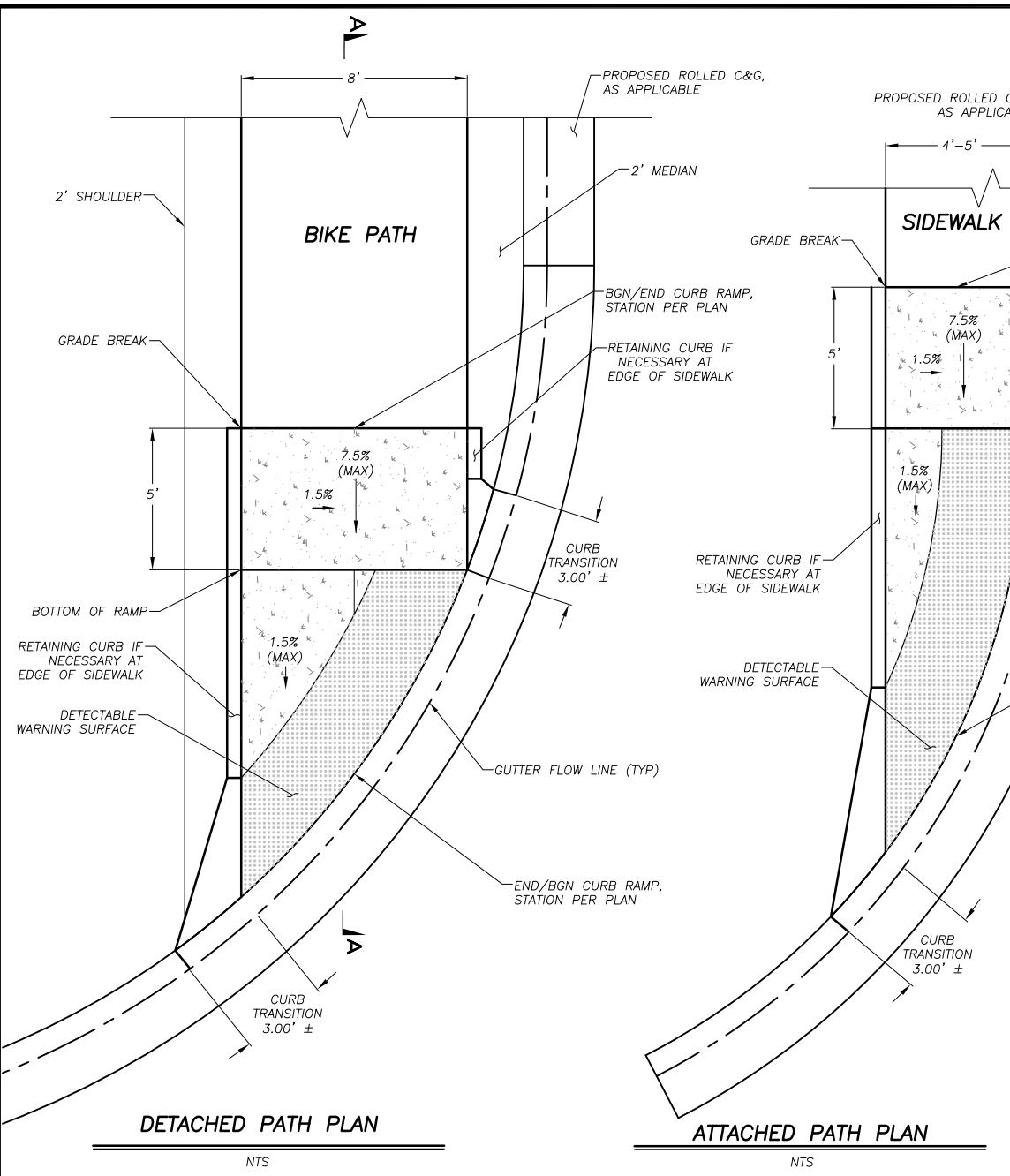
COUNTY OF EL DORADO  
COMMUNITY DEVELOPMENT SERVICES  
DEPARTMENT OF TRANSPORTATION

APACHE AVENUE PEDESTRIAN SAFETY AND  
CONNECTIVITY PROJECT  
DETAIL SHEET

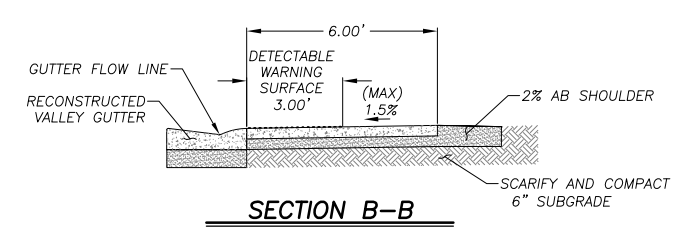
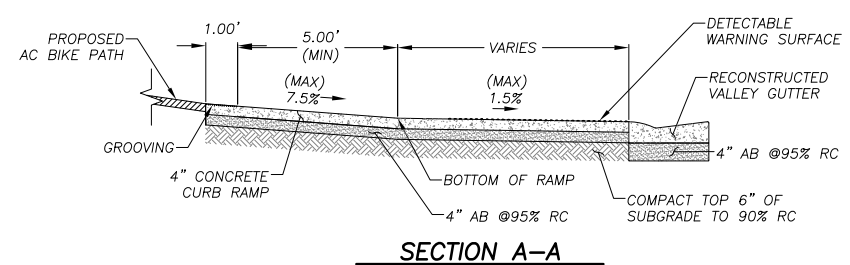
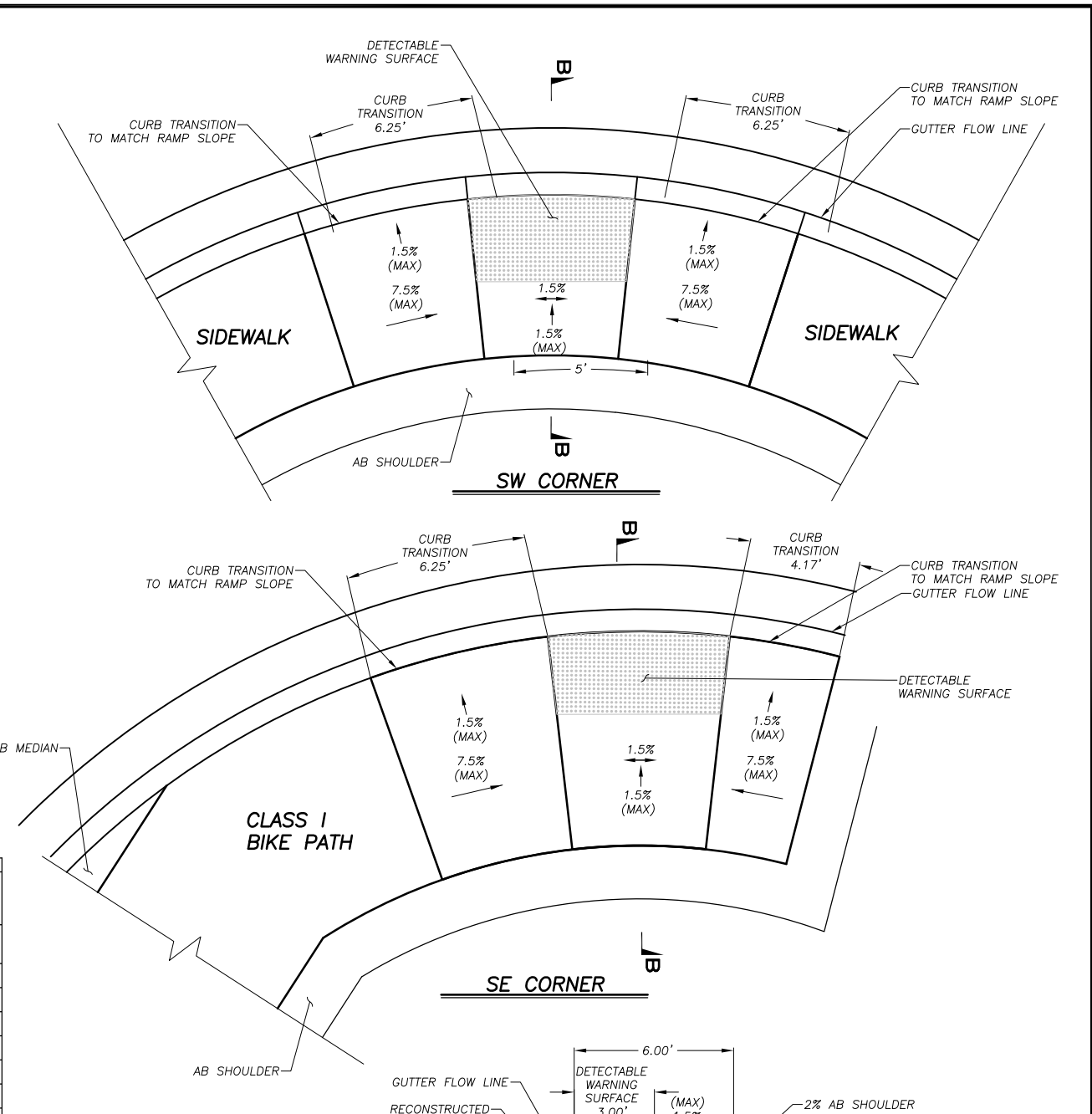
SHEET  
**D-2**  
22 OF 33  
CONTRACT NO.  
**7922**  
CIP No.  
**95199**

Drawing name: \\C:\Data\as5\11-SL-Engineering\CIVIL\_3D\_PROJECTS\95199\Engineering\WPLAN\APACHE\_DETAILS.dwg

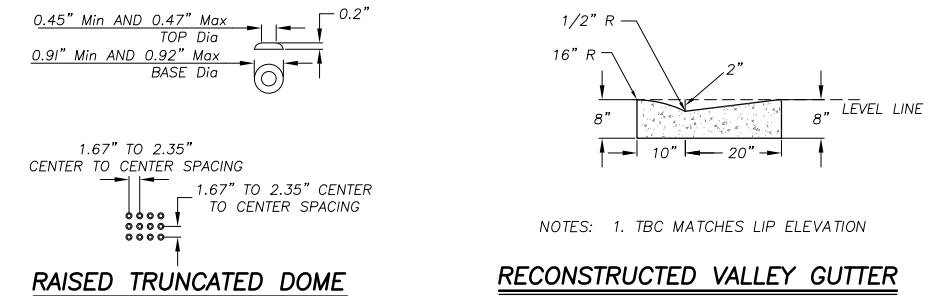
ORIGINAL SCALE IS IN INCHES  
FOR REDUCED PLANS



LOCATION	DETECTABLE WARNING SURFACE		CURB RAMP	VALLEY GUTTER / CURB TRANSITIONS
	AREA (SF)	DIMENSION (L X W)		
E. SAN BERNARDINO AVE (NW)	39	SEE NOTE 3	2.5	1.3
E. SAN BERNARDINO AVE (NE)	39	SEE NOTE 3	1.6	1.1
E. SAN BERNARDINO (SW)	19	6' X 3'	1.3	0.8
E. SAN BERNARDINO (SE)	20	6' X 3'	1.5	0.7
SIoux ST (NE)	35	SEE NOTE 3	1.0	0.8
SIoux ST (SE)	35	SEE NOTE 3	1.0	0.8
TOMAHAWK LN (NE)	35	SEE NOTE 3	1.1	0.8
TOMAHAWK LN (SE)	35	SEE NOTE 3	1.1	0.8
PUEBLO ST (NE)	35	SEE NOTE 3	1.1	0.8
PUEBLO ST (SE)	35	SEE NOTE 3	1.1	0.8
ARROWHEAD AVE (NE)	35	SEE NOTE 3	1.1	0.8
ARROWHEAD AVE (SE)	35	SEE NOTE 3	1.1	0.7
ARROWHEAD AVE (NW)	39	SEE NOTE 3	1.0	0.9
ARROWHEAD AVE (SW)	39	SEE NOTE 3	0.9	0.9
TOTAL	475	-		29.4



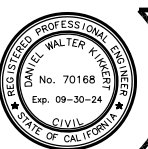
- NOTES:
1. THE DETECTABLE WARNING SURFACE WILL BE A RECTANGLE UNLESS MODIFIED IN THE PROJECT PLANS. THE DETECTABLE WARNING SURFACE MUST EXTEND THE FULL WIDTH AND 3'-0" DEPTH OF THE RAMP. FOR THE WIDTH A MAXIMUM GAP OF 1 INCH IS ALLOWED ON EACH SIDE OF THE RAMP. DETECTABLE WARNING SURFACE SHALL CONFORM TO THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS.
  2. CROSS SLOPE (1.5%) DIRECTION TO MATCH INCOMING TRAIL CROSS SLOPE DIRECTION.
  3. FOR RADIUS CONFIGURATIONS, TRIM DETECTABLE WARNING SURFACE TO MATCH.
  4. QUANTITY AND PAYMENT FOR CURB RAMP INCLUDES 3' TRANSITIONS AND VALLEY GUTTER.



**CURB RAMPS (TYP)**  
NTS

**CURB RAMPS @ SW/SE CORNERS OF APACHE AND SAN BERNARDINO**  
NTS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*[Signature]*  
REGISTERED CIVIL ENGINEER  
**DECEMBER 31, 2023**  
DATE:

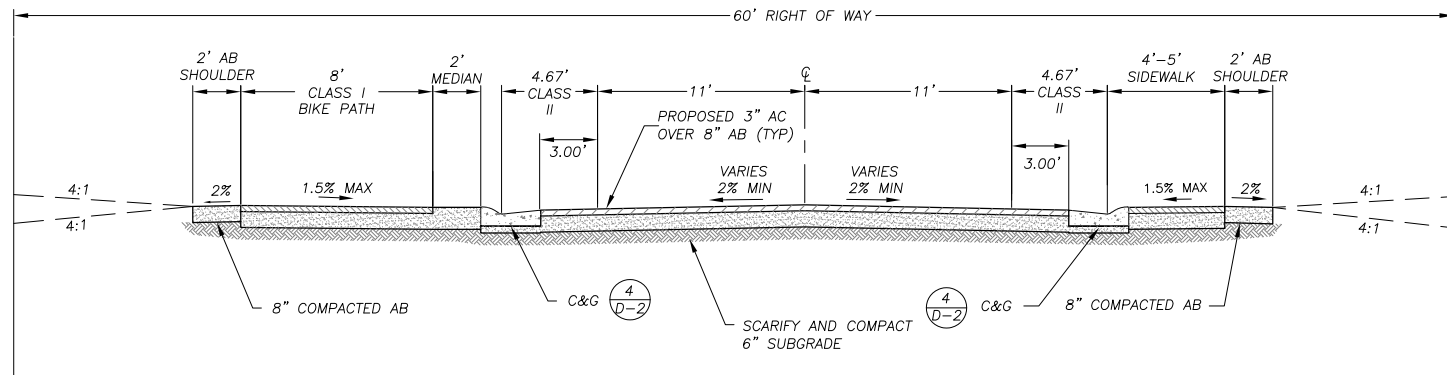
DESIGNED: DMG  
DRAWN: DMG  
CHECKED: DWK  
DATE: 12/2023  
ROAD NUMBER: ---



COUNTY OF EL DORADO  
COMMUNITY DEVELOPMENT SERVICES  
DEPARTMENT OF TRANSPORTATION

APACHE AVENUE PEDESTRIAN SAFETY AND  
CONNECTIVITY PROJECT

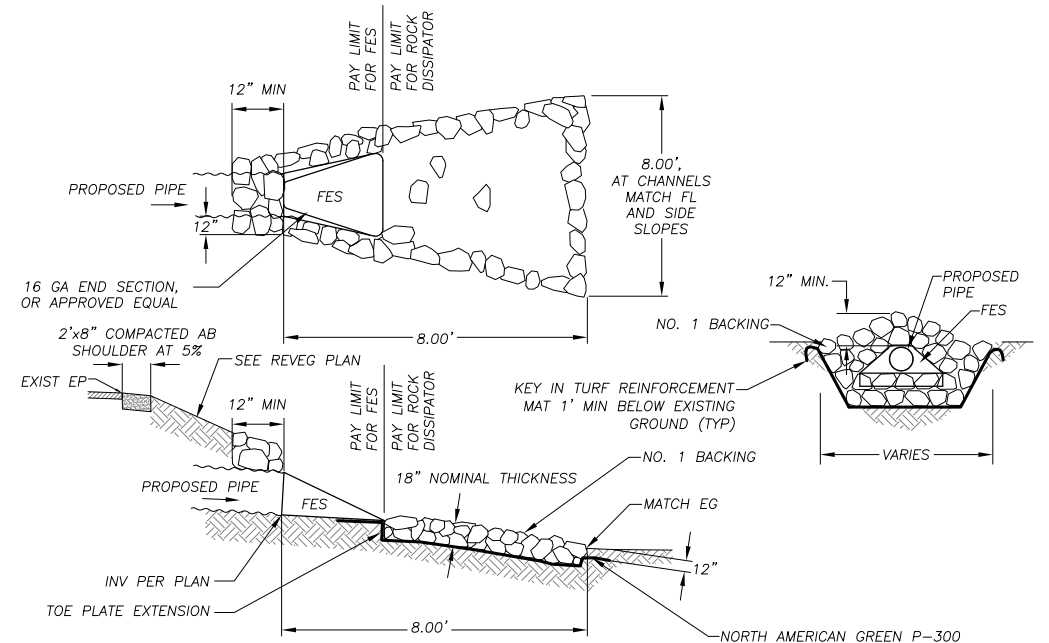
SHEET  
**D-3**  
23 OF 33  
CONTRACT NO.  
**7922**  
CIP No.  
**95199**



NOTE:

**TYPICAL APACHE AVE ROADWAY SECTION - EDC ROW**

1  
D-4

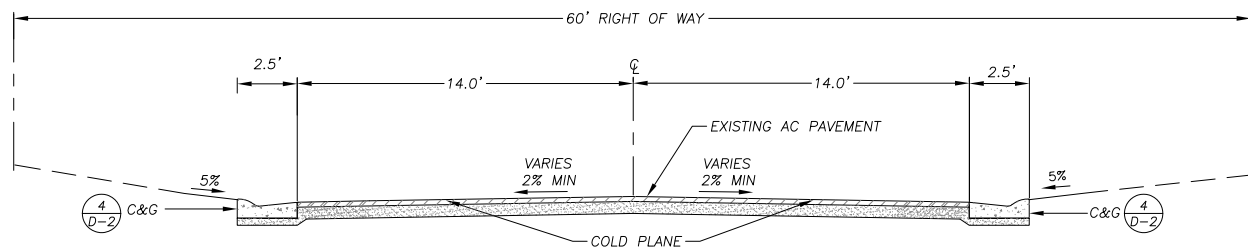


NOTES:

1. ALL FES SHALL BE GALVANIZED.

**ROCK DISSIPATOR**

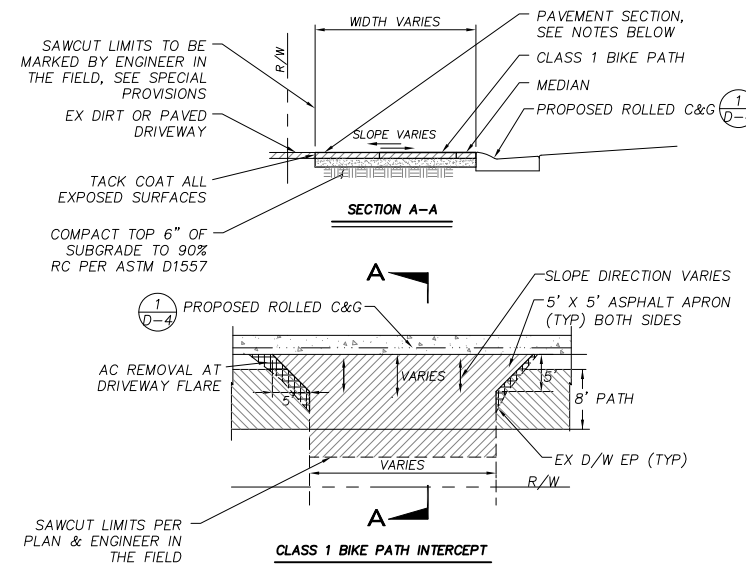
4  
D-4



NOTE: THIS IS A TYPICAL COUNTY ROAD SECTION AND MAY NOT REFLECT ACTUAL CONDITIONS OF THE ROADWAYS WITHIN THE PROJECT AREA, SEE CROSS SECTION SHEETS FOR ACTUAL SECTIONS.

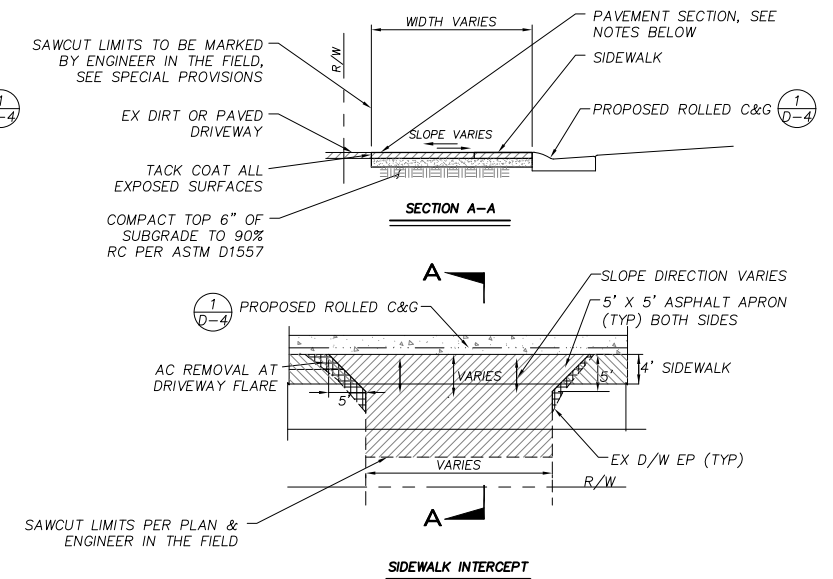
**COLD PLANE**

2  
D-4



NOTES:

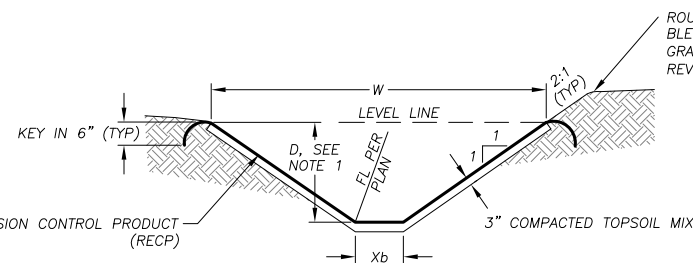
1. DRIVEWAY PAVEMENT REPLACEMENT TO BE 2 1/2" AC OVER 4" AB @ 95% RC.
2. MATCH WIDTH OF EXISTING DRIVEWAY UNLESS NOTED OTHERWISE ON PLANS.
3. FOR AREAS IDENTIFIED AS NEW DRIVEWAY ENCROACHMENT, PAVEMENT WIDTH WILL BE 10' MAX.
4. THE ENGINEER SHALL MARK THE SAWCUT LIMITS AT EACH DRIVEWAY.
5. DRIVEWAY PAVING SHALL BE WARPED TO MAINTAIN A SMOOTH TRANSITION AND PREVENT PONDING OR TRAPPING WATER.
6. AC REMOVAL AT DRIVEWAY FLARES INCLUDED IN BID ITEM.



SAWCUT LIMITS PER PLAN & ENGINEER IN THE FIELD

**DRIVEWAY R&R**

5  
D-4



PLAN SHEET	STATIONING	LF	TOP WIDTH, W	BOTTOM WIDTH, Xb	DEPTH, D	SLOPE RATIO, R
PD-1	10+64.63 TO 10+88.98	25	4.58'	1.00'	0.90'	2:1

**BLANKET LINED CHANNEL**

3  
D-4

Drawing name: \CDatabases\511-SL-Engineering\CIVIL 3D PROJECTS\95199\Engineering\PLAN\APACHE DETAILS.dwg

ORIGINAL SCALE IS IN INCHES

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REVISION	NUMBER	DATE	DESCRIPTION	BY



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 REGISTERED CIVIL ENGINEER  
**DECEMBER 31, 2023**  
 DATE:

DESIGNED: DMG  
 DRAWN: DMG  
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 DATE: 12/2023  
 ROAD NUMBER: ---

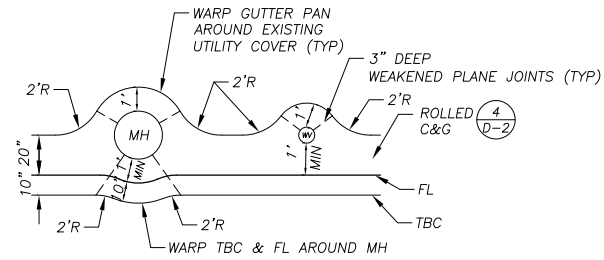


**COUNTY OF EL DORADO**  
**COMMUNITY DEVELOPMENT SERVICES**  
**DEPARTMENT OF TRANSPORTATION**

**APACHE AVENUE PEDESTRIAN SAFETY AND CONNECTIVITY PROJECT**

SHEET  
**D-4**  
 24 of 33  
 CONTRACT NO.  
**7922**  
 CIP No.  
**95199**

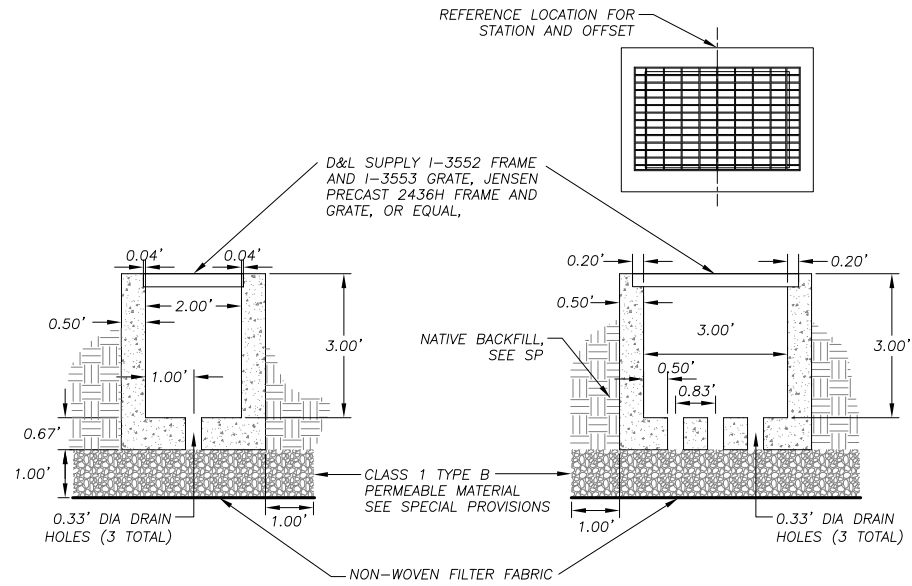




**CURB AND GUTTER WARP AT UTILITY COVERS**

NTS

1  
D-5



**DRAINAGE INLET - TYPE 2**

NTS

2  
D-5

Drawing name: \\C:\Data\as5\11-SLT-Engineering\CIVIL 3D PROJECTS\95199\Engineering\PLAN\APACHE DETAILS.dwg

2 ORIGINAL SCALE IS IN INCHES

FOR REDUCED PLANS

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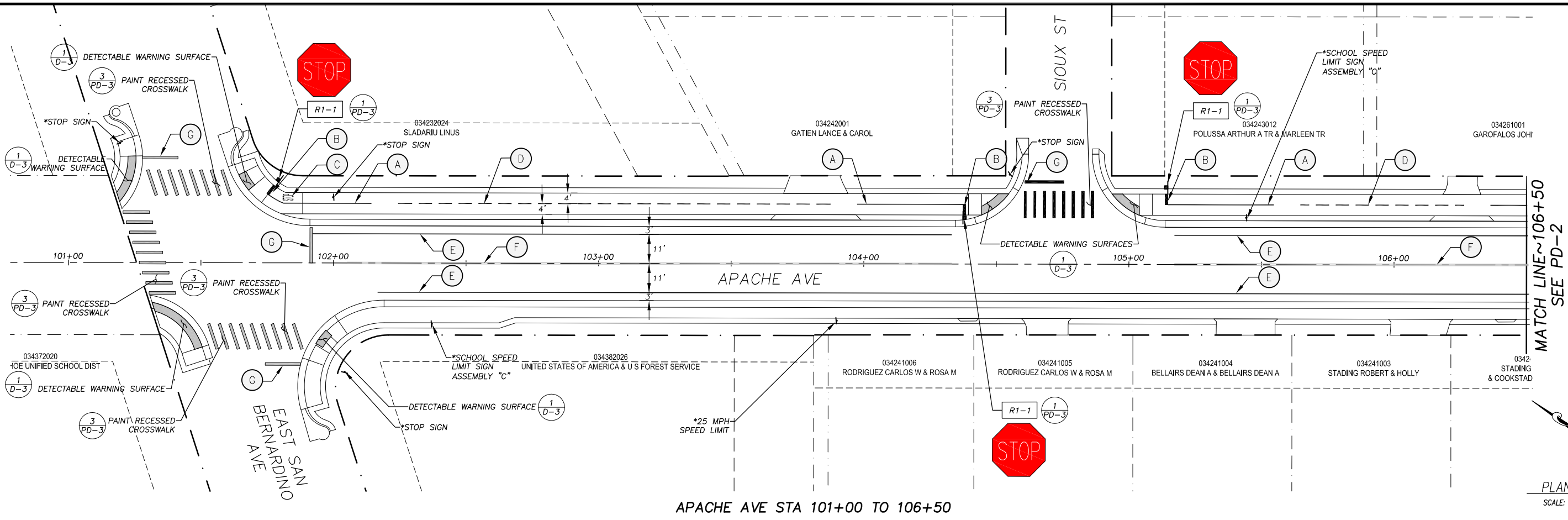


**COUNTY OF EL DORADO**  
**COMMUNITY DEVELOPMENT SERVICES**  
**DEPARTMENT OF TRANSPORTATION**

**APACHE AVENUE PEDESTRIAN SAFETY AND CONNECTIVITY PROJECT**

SHEET  
**D-5**  
 25 of 33  
 CONTRACT NO.  
**7922**  
 CIP No.  
**95199**

DRAWING NAME: \\CD\Users\jtd\Documents\Projects\99\Engineering\WPA\16 APACHE PD.dwg  
ORIGINAL SCALE IS IN INCHES  
FOR REDUCED PLANS  
REVISION



PLAN & PROFILE  
SCALE: HORIZ 1" = 20'  
VERT 1" = 5'

**SIGNING LEGEND**

- XX - SIGN NUMBER, SEE TABLE DETAILS
- - EXIST SIGN
- - INSTALL SIGN
- ▬ - INSTALL DOUBLE SIDED SIGN
- \*
- REMOVE AND REPLACE

**CONSTRUCTION NOTES:**

- (A) - 4" SOLID YELLOW STRIPE PAINTED PER DIMENSIONS SHOWN
- (B) - 1' WIDE X 4' WHITE PAINTED LIMIT LINE PER CALTRANS RSP A24E
- (C) - "STOP" PAVEMENT MARKING (H=48", W=38") PER CALTRANS RSP A24D (1/2 SIZE) PLACE 5' FROM LIMIT LINE
- (D) - DASHED CENTERLINE STRIPING PER CAMUTCD FIG 9C-2
- (E) - 6" SOLID WHITE EDGELINE STRIPING PER STD PLANS A20B (DETAIL 27B)
- (F) - 6" DBL YELLOW LINE PER STD PLANS A20A (DETAIL 21)
- (G) - 1' WIDE X 14' WHITE PAINTED LIMIT LINE PER CALTRANS RSP A24E

NOTES:  
1) FINISH ON BACK OF SIGN: MIDNIGHT GREEN ENDURA SHIELD IV, TMEC SEMIGLOSS HIGH BUILD ACRYLIC POLYURETHANE ENAMEL NO. 75-J7751  
2) ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST APPROVED CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD).  
3) ASTM DESIGNATION APPLIES TO ALL COLORS ON SIGN OR RAIL. BLACK SHALL BE NON-REFLECTIVE.  
4) HIGH INTENSITY MICROPRISMATIC (HIP) FILM, ASTM 4956 REQUIRED IN COUNTY RIGHT OF WAY

ROADWAY AND BIKE PATH SIGNS					
SIGN DESIGNATION	SIGN MESSAGE AND DESCRIPTION	SIGN SIZE	QTY	SIGN COLORS	RETROREFLECTIVE ASTM TYPE
R1-1	"STOP" SIGN	18"x18"	2	WHITE ON RED	HIP III, IV
W5-4A	"BIKEWAY NARROWS" SIGN	18"x18"	10	BLACK ON YELLOW	HIP III, IV
R44A (CA)	"NO MOTOR VEHICLES" SIGN	12"x24"	1	BLACK ON WHITE	III

PATH PAVEMENT STRIPING		
TYPE	SHEET	SPRAYABLE PAINT
SOLID YELLOW STRIPING (A)	PD-1	134
	PD-2	226
	PD-3	39
BROKEN YELLOW CENTERLINE STRIPING (D)	PD-1	225
	PD-2	671
	PD-3	392
TOTAL		1,687

ROADWAY PAVEMENT STRIPING		
TYPE	SHEET	SPRAYABLE PAINT
SOLID YELLOW STRIPING (F)	PD-1	722
	PD-2	1,710
	PD-3	854
SOLID WHITE EDGELINE STRIPING (E)	PD-1	807
	PD-2	2,019
	PD-3	845
TOTAL		6,957

PAVEMENT MARKINGS			
SYMBOL DESCRIPTION	QUANTITY (EA)	AREA (SF)	TOTAL AREA (SF)
CROSSWALK (E. SAN BERNARDINO AVE)	03	90	270
CROSSWALK (SIOUX ST)	01	80	80
CROSSWALK (TOMAHAWK LN)	01	90	90
CROSSWALK (PUEBLO ST)	01	90	90
CROSSWALK (ARROWHEAD AVE)	02	90	180
LIMIT LINES - ROADWAY	08	13.3	106.4
LIMIT LINES - PATH	10	4	40
TOTAL			856.4

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY



PREPARED UNDER THE SUPERVISION OF:  
*[Signature]*  
REGISTERED CIVIL ENGINEER  
DECEMBER 31, 2023

DESIGNED: DMG  
DRAWN: DMG  
CHECKED: DWK  
DATE: 12/2023  
ROAD NUMBER: ---

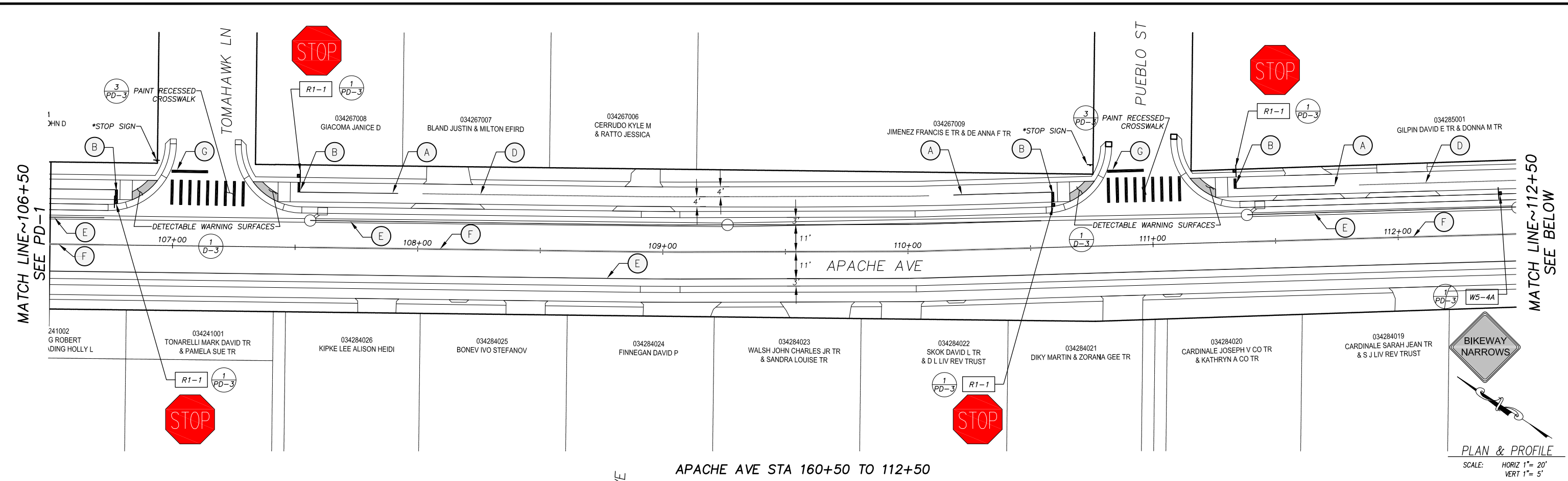


COUNTY OF EL DORADO  
COMMUNITY DEVELOPMENT SERVICES  
TRANSPORTATION DEPARTMENT

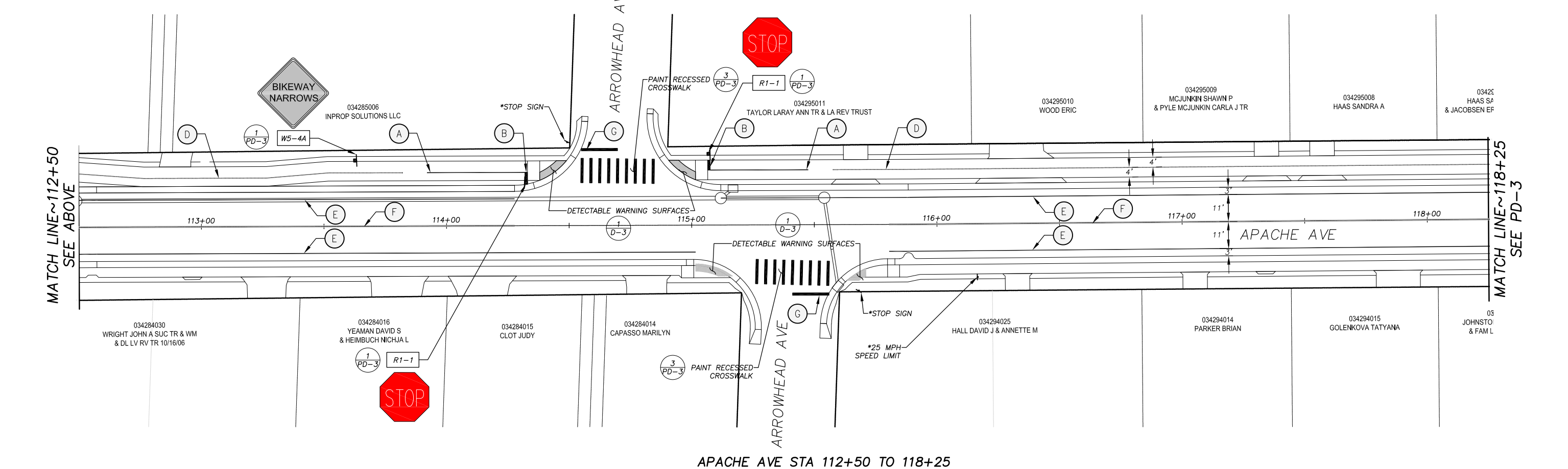
APACHE AVENUE PEDESTRIAN SAFETY AND  
CONNECTIVITY PROJECT  
PAVEMENT DELINEATION AND SIGN PLAN

SHEET  
PD-1  
26 OF 33  
CONTRACT NO.  
7922  
CIP No.  
95199

DRAWING NAME: \\D:\Users\TD-SIT-Engineering\Civil\_3D\_PROJECTS\95199\Engineering\WIP\16 APACHE PD.dwg  
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES  
2  
1  
0



PLAN & PROFILE  
SCALE: HORIZ 1"= 20'  
VERT 1"= 5'



REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
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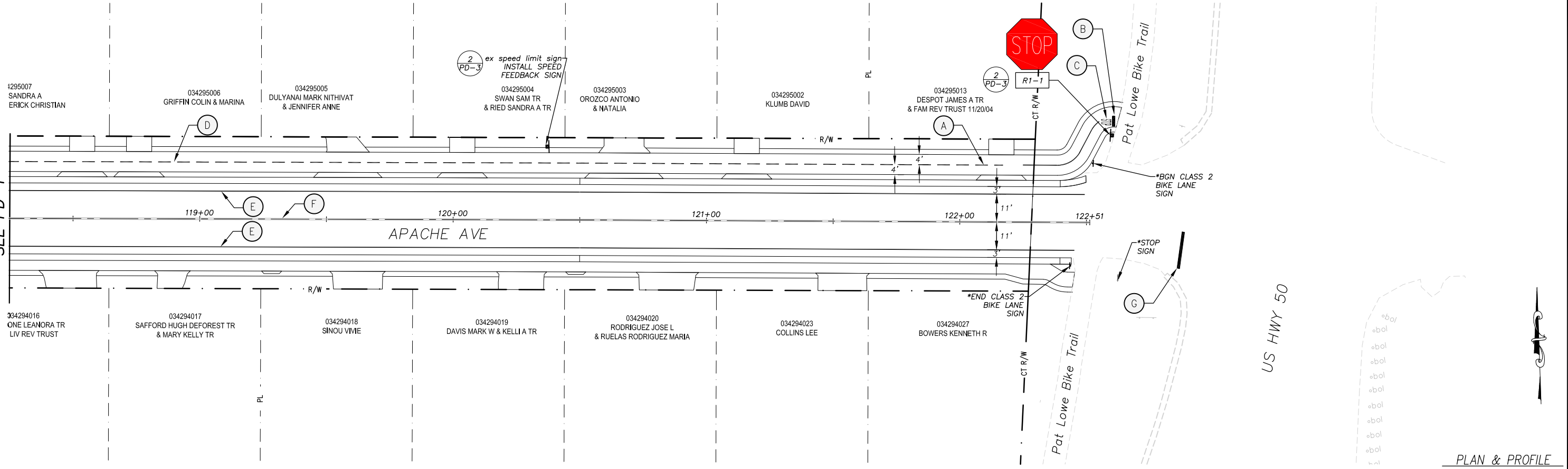


COUNTY OF EL DORADO  
COMMUNITY DEVELOPMENT SERVICES  
TRANSPORTATION DEPARTMENT

APACHE AVENUE PEDESTRIAN SAFETY AND  
CONNECTIVITY PROJECT  
PAVEMENT DELINEATION AND SIGN PLAN

SHEET  
**PD-2**  
27 OF 33  
CONTRACT NO.  
**7922**  
CIP No.  
**95199**

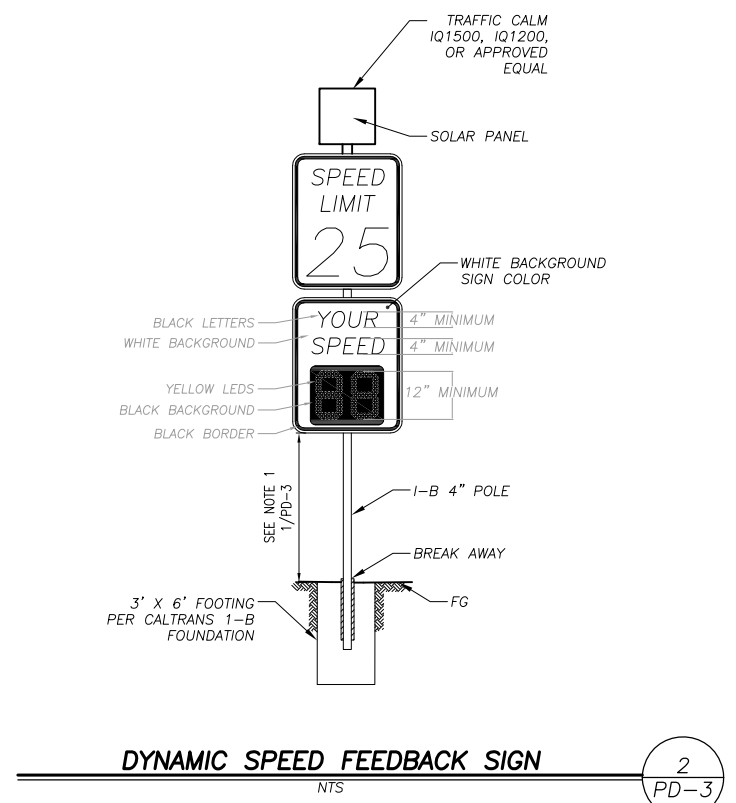
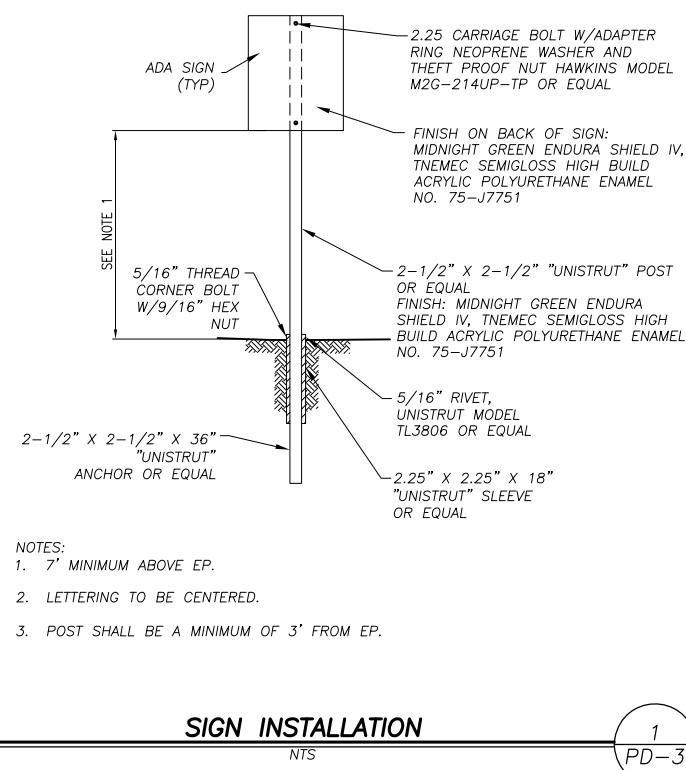
MATCH LINE ~ 118+25  
SEE PD-1



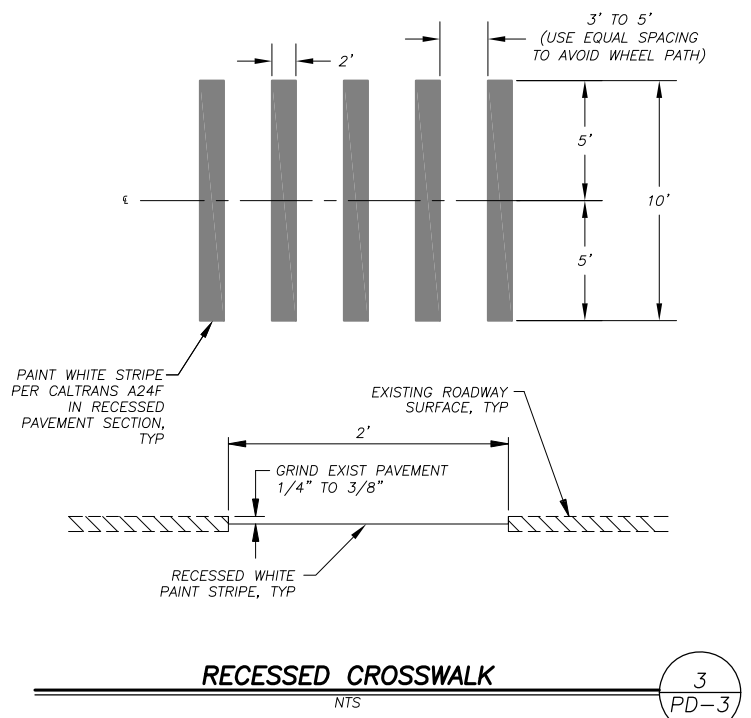
APACHE AVE STA 118+25 TO 122+51

PLAN & PROFILE  
SCALE: HORIZ 1" = 20'  
VERT 1" = 5'

DRAWING NAME: \CD\Projects\99\Engineering\WPA\16 APACHE PD.dwg  
ORIGINAL SCALE IS IN INCHES  
FOR REDUCED PLANS  
REVISION



- SIGNING LEGEND**
- XX - SIGN NUMBER, SEE TABLE DETAILS
  - - EXIST SIGN
  - - INSTALL SIGN
  - - INSTALL DOUBLE SIDED SIGN
  - \*
- NOTE: SIGN PANELS IN CALTRANS ROW MUST BE RETRO-REFLECTIVETYPE XI
- CONSTRUCTION NOTES:**
- (A) - 4" SOLID YELLOW STRIPE PAINTED PER DIMENSIONS SHOWN
  - (B) - 1' WIDE X 4' WHITE PAINTED LIMIT LINE PER CALTRANS RSP A24E
  - (C) - "STOP" PAVEMENT MARKING (H=48", W=38") PER CALTRANS RSP A24D (1/2 SIZE) PLACE 5' FROM LIMIT LINE
  - (D) - DASHED CENTERLINE STRIPING PER CAMUTCD FIG 9C-2
  - (E) - 6" SOLID WHITE EDGELINE STRIPING PER STD PLANS A20B (DETAIL 27B)
  - (F) - 6" DBL YELLOW LINE PER STD PLANS A20A (DETAIL 21)
  - (G) - 1' WIDE X 14' WHITE PAINTED LIMIT LINE PER CALTRANS RSP A24E



REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
*[Signature]*  
REGISTERED CIVIL ENGINEER  
DECEMBER 31, 2023

DESIGNED: DMG  
DRAWN: DMG  
CHECKED: DWK  
DATE: 12/2023  
ROAD NUMBER: ---



COUNTY OF EL DORADO  
COMMUNITY DEVELOPMENT SERVICES  
TRANSPORTATION DEPARTMENT

APACHE AVENUE PEDESTRIAN SAFETY AND  
CONNECTIVITY PROJECT  
PAVEMENT DELINEATION AND SIGN PLAN

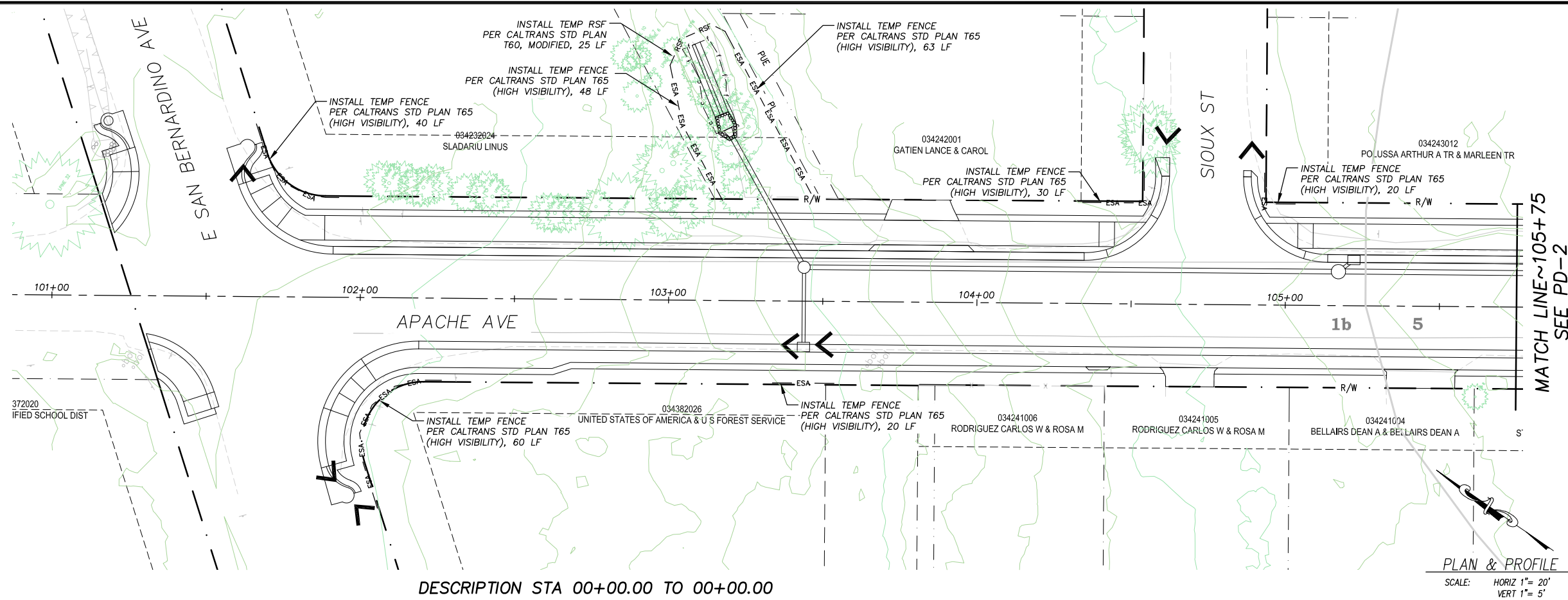
SHEET  
PD-3  
28 OF 33  
CONTRACT NO.  
7922  
CIP No.  
95199

**LEGEND**

- COUNTY OR CALTRANS RIGHTS-OF-WAY OR PROPERTY LINE
- - - - - EXISTING EDGE OF PAVEMENT
- LAND CAPABILITY BOUNDARY
- 10' SEZ SETBACK (IF APPLICABLE)
- ▭ PROPOSED STAGING, STORAGE, OR CONC WASH
- WOODEN TREE TRUNK PROTECTION
- - - - - ESA - - - - - TEMPORARY FENCE (TYPE ESA)
- - - - - RSF - - - - - REINFORCED SILT FENCE
- SEDIMENT CONTROL
- PROPOSED CSP INLET/RISER, DI, OR SDMH
- PROPOSED PIPE
- ▭ PROPOSED ROCK DISSIPATOR OR RSP
- ▭ PROPOSED RLC
- ▭ PROPOSED BLC

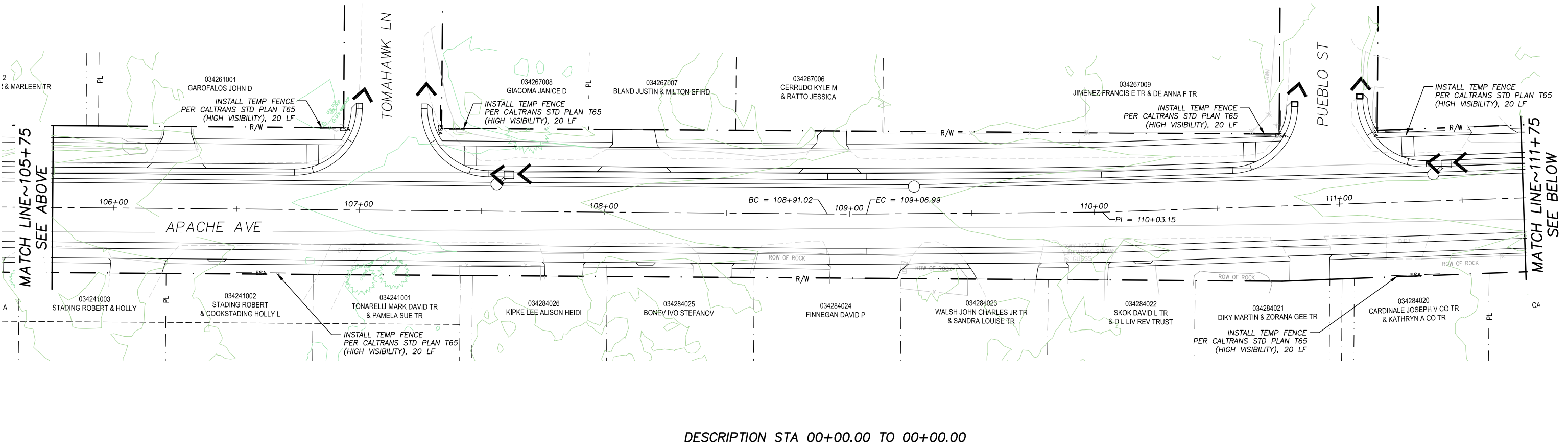
COVERAGE TABLE (SF)

	PRE PROJECT	POST PROJECT	DELTA
<b>HARD COVERAGE</b>			
AC	87,277	77,032	-10,245
<b>TOTAL</b>	<b>87,277</b>	<b>77,032</b>	<b>-10,245</b>



DESCRIPTION STA 00+00.00 TO 00+00.00

PLAN & PROFILE  
SCALE: HORIZ 1" = 20'  
VERT 1" = 5'



DESCRIPTION STA 00+00.00 TO 00+00.00

ORIGINAL SCALE IS IN INCHES  
FOR REDUCED PLANS  
2  
1  
0

REVISION	NUMBER	DATE	DESCRIPTION	BY



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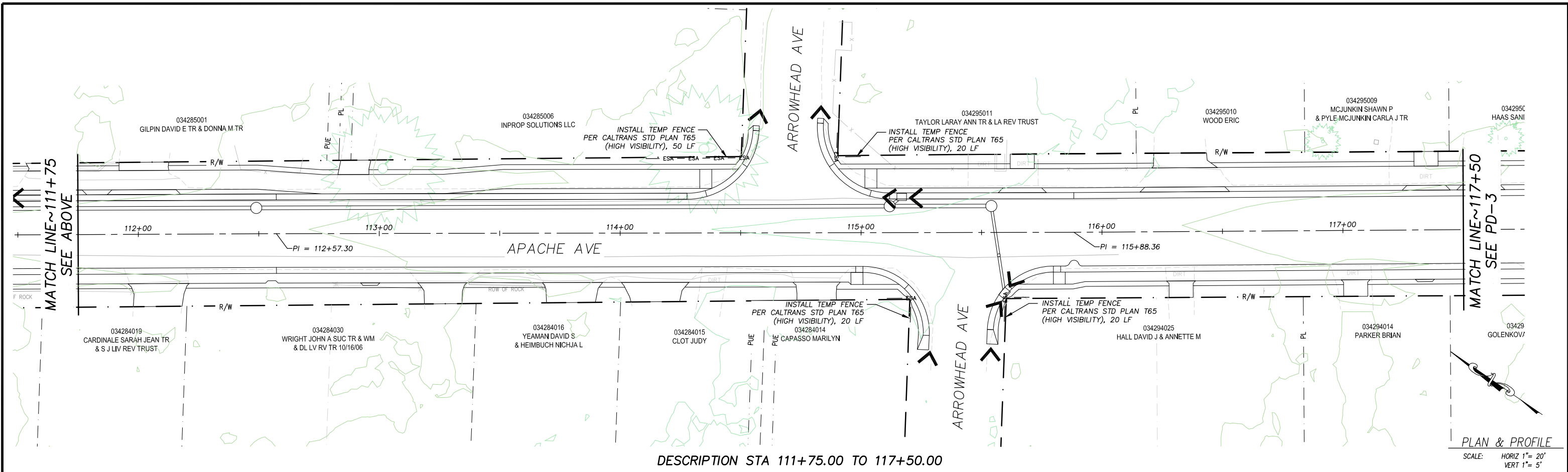


COUNTY OF EL DORADO  
COMMUNITY DEVELOPMENT SERVICES  
TRANSPORTATION DEPARTMENT

APACHE AVENUE PEDESTRIAN SAFETY AND  
CONNECTIVITY PROJECT  
TEMPORARY EROSION CONTROL

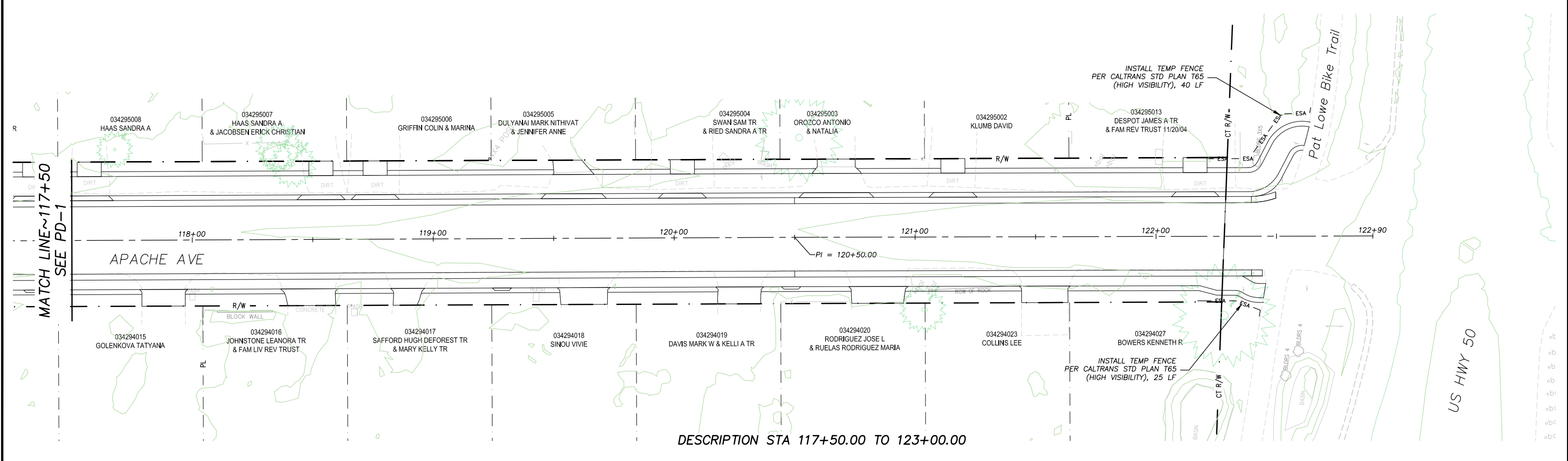
SHEET  
**EC-1**  
29 OF 33  
CONTRACT NO.  
**7922**  
CIP No.  
**95199**

ORIGINAL SCALE IS IN INCHES  
 2  
 1  
 0  
 FOR REDUCED PLANS  
 Drawing name: \\CD\Users\TD-SJT-Engineering\Civil\_3D\_PROJECTS\95199\Engineering\NIPAN\APACHE EC-1.dwg



DESCRIPTION STA 111+75.00 TO 117+50.00

PLAN & PROFILE  
 SCALE: HORIZ 1" = 20'  
 VERT 1" = 5'



DESCRIPTION STA 117+50.00 TO 123+00.00

REVISION	NUMBER	DATE	DESCRIPTION	BY



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**DECEMBER 31, 2023**  
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COUNTY OF EL DORADO  
 COMMUNITY DEVELOPMENT SERVICES  
 TRANSPORTATION DEPARTMENT

APACHE AVENUE PEDESTRIAN SAFETY AND  
 CONNECTIVITY PROJECT  
 TEMPORARY EROSION CONTROL

SHEET  
**EC-2**  
 30 OF 33  
 CONTRACT NO.  
**7922**  
 CIP No.  
**95199**

**SYMBOL LEGEND**

- ||||| REVEGETATION AREA (TYPE 1)
- ▨ REVEGETATION AREA (TYPE 4)
- ~~~~~ REVEGETATION AREA (TYPE 7)
- ▭ STAGING AND STORAGE AREAS (OFF PAVEMENT)

**DEFINITIONS**

BLANKET = ROLLED EROSION CONTROL PRODUCT (RECP)

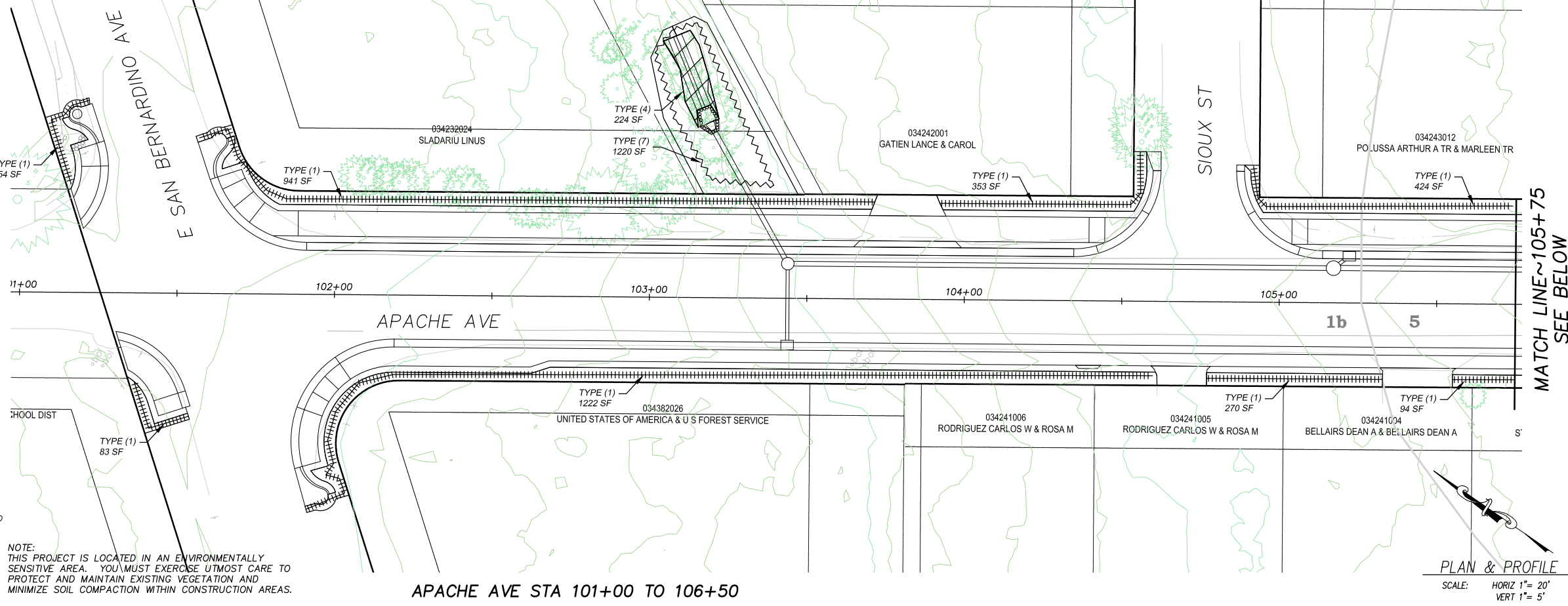
**NOTES**

1. REVEGETATION TYPE (1) FOR AREAS ADJACENT PATHS, AC REMOVAL AREAS, PIPE INSTALLATION, DISTURBED AREAS ADJACENT TO IMPROVEMENTS, AND GRADE TO DRAIN LOCATIONS, UNLESS NOTED OTHERWISE.
2. AMENDMENT AND MULCH WILL NOT BE APPLIED TO AREAS WITHIN CHANNEL BOTTOM.
3. ALL REVEGETATION AREAS DESCRIBED ABOVE WILL BE IRRIGATED WITH A WATER TRUCK BY THE COUNTY FOR TWO YEARS FOLLOWING INSTALLATION TO ENSURE OPTIMUM PLANT SURVIVAL.
4. SEE SPECIAL PROVISIONS FOR LOCATIONS WHERE SCARIFYING IS REQUIRED PRIOR TO REVEGETATION TREATMENT.

**REVEGETATION WORK LEGEND**

- TYPE (1) - CONTRACTOR TO PLACE 2" COMPACTED TOPSOIL MIX, CALIFORNIA CONSERVATION CORPS (CCC) TO ADD SEED, CONTRACTOR TO APPLY TACKIFIER.
- TYPE (2) - N/A.
- TYPE (3) - N/A.
- TYPE (4) - CONTRACTOR TO PLACE 3" COMPACTED TOPSOIL MIX IN CHANNEL BOTTOM AND ON CHANNEL SIDE SLOPES, CCC TO PLACE SEED, CONTRACTOR TO PLACE BLANKET ON CHANNEL BOTTOM AND SIDE SLOPES, CONTRACTOR TO APPLY TACKIFIER.
- TYPE (5) - N/A.
- TYPE (6) - N/A.
- TYPE (7) - ACCESS LIMITS, CONTRACTOR TO RESTORE AREAS IMPACTED BY EQUIPMENT DURING CONSTRUCTION OF IMPROVEMENTS.

NOTE: THIS PROJECT IS LOCATED IN AN ENVIRONMENTALLY SENSITIVE AREA. YOU MUST EXERCISE UTMOST CARE TO PROTECT AND MAINTAIN EXISTING VEGETATION AND MINIMIZE SOIL COMPACTION WITHIN CONSTRUCTION AREAS.

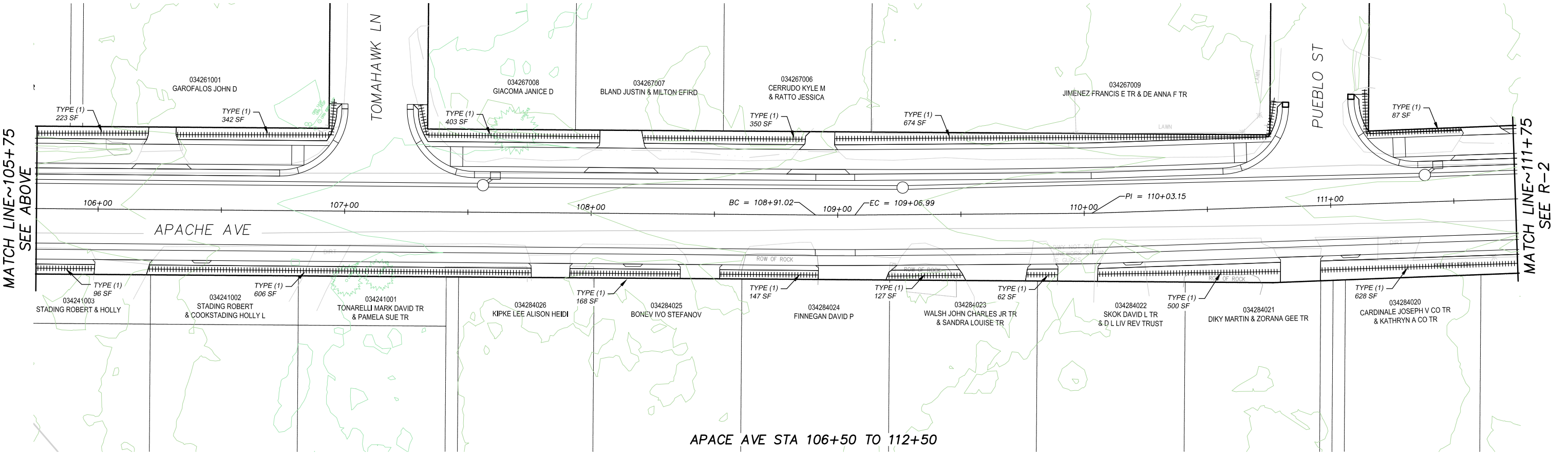


APACHE AVE STA 101+00 TO 106+50

MATCH LINE ~105+75  
SEE BELOW

PLAN & PROFILE  
SCALE: HORIZ 1" = 20'  
VERT 1" = 5'

DRAWING NAME: \\\CD\Users\TD-SJT-Engineering\Civil\_3D\_PROJECTS\95199\Engineering\95199\APACHE R-1.dwg  
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES  
2  
1  
0



APACHE AVE STA 106+50 TO 112+50

MATCH LINE ~105+75  
SEE ABOVE

MATCH LINE ~111+75  
SEE R-2

REVISION	NUMBER	DATE	DESCRIPTION	BY



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*[Signature]*  
REGISTERED CIVIL ENGINEER  
DATE: **DECEMBER 31, 2023**

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ROAD NUMBER: ---

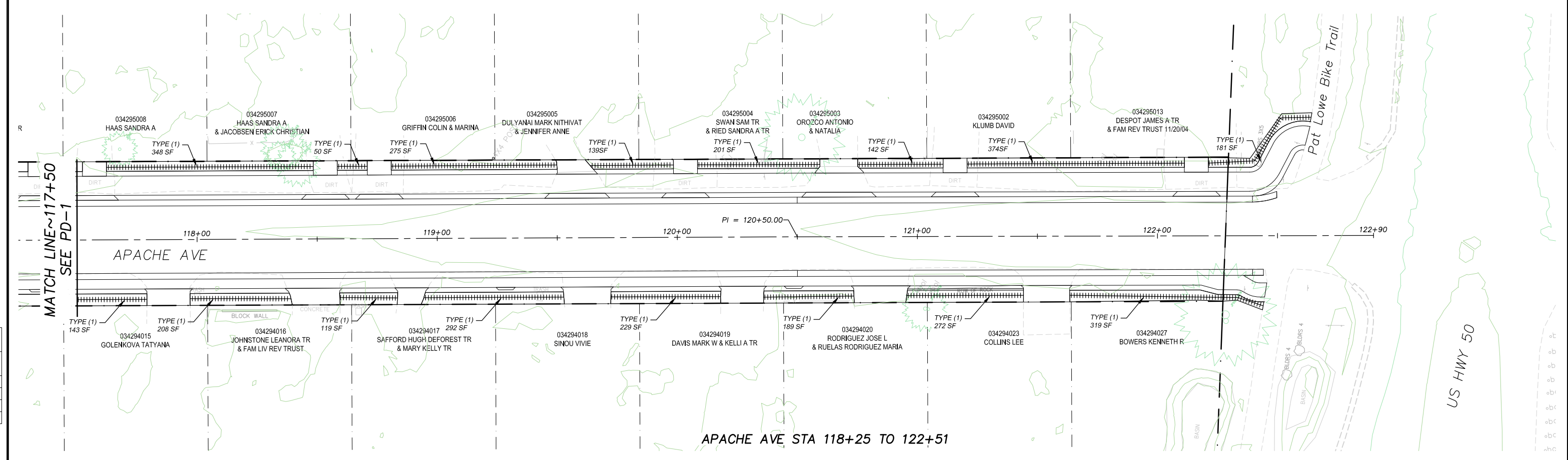
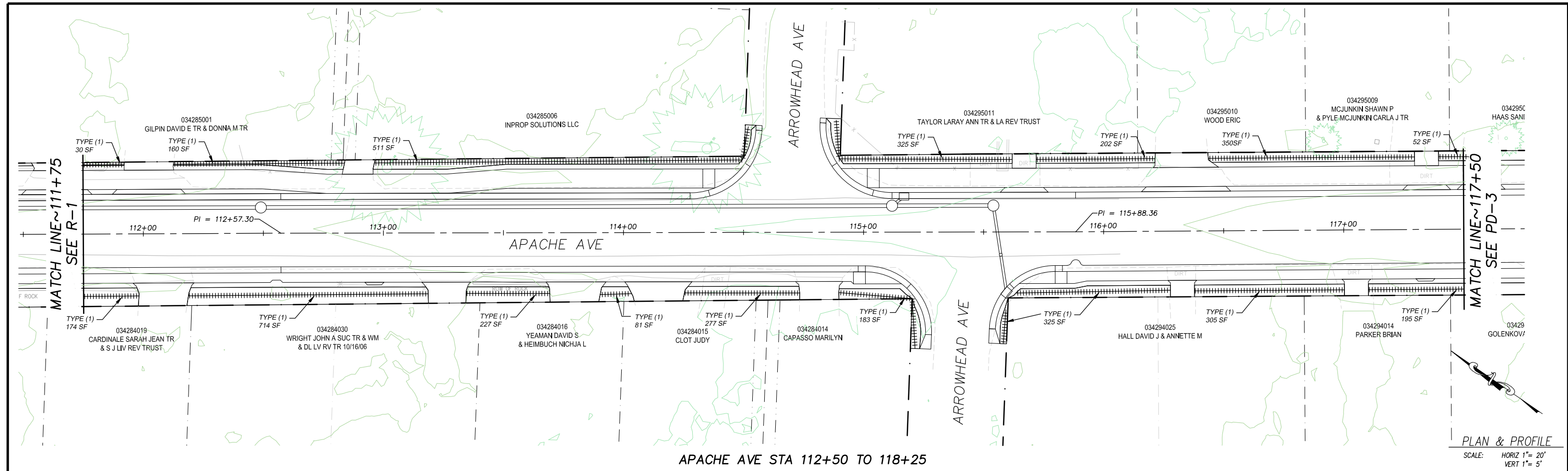


COUNTY OF EL DORADO  
COMMUNITY DEVELOPMENT SERVICES  
TRANSPORTATION DEPARTMENT

APACHE AVENUE PEDESTRIAN SAFETY AND  
CONNECTIVITY PROJECT  
REVEGETATIVE PLAN

SHEET  
**R-1**  
31 OF 33  
CONTRACT NO.  
**7922**  
CIP No.  
**95199**

ORIGINAL SCALE IS IN INCHES  
 2  
 1  
 0  
 FOR REDUCED PLANS  
 Drawing name: \\CD\Users\TD-SJT-Engineering\Civil\_3D\_PROJECTS\95199\Engineering\WIP\PLAN\15 APACHE R-1.dwg



REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:  
  
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**DECEMBER 31, 2023**  
 DATE:

DESIGNED: DMG  
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 CHECKED: DWK  
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 ROAD NUMBER:



**COUNTY OF EL DORADO**  
**COMMUNITY DEVELOPMENT SERVICES**  
**TRANSPORTATION DEPARTMENT**

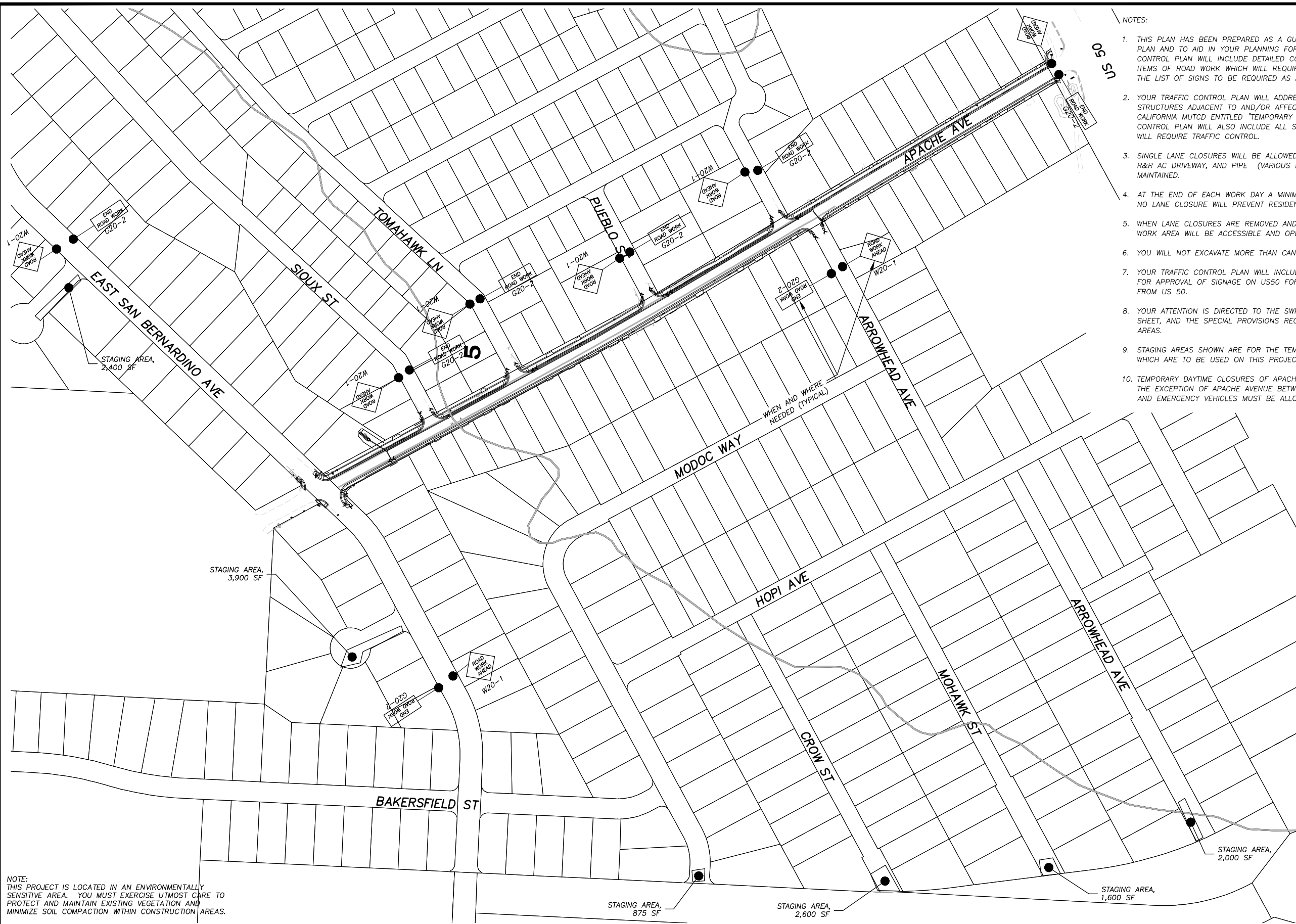
**APACHE AVENUE PEDESTRIAN SAFETY AND**  
**CONNECTIVITY PROJECT**  
**REVEGETATION PLAN**

SHEET  
**R-2**  
 32 OF 33  
 CONTRACT NO.  
**7922**  
 CIP No.  
**95199**



Drawing name: \\C01\Users\TD-SL-Engineering\Civil\_30\_PROJECTS\95199\Engineering\WPA\WPA04E\_EC-1.dwg

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES



- NOTES:
1. THIS PLAN HAS BEEN PREPARED AS A GUIDE FOR YOU IN PREPARATION OF A COMPLETE TRAFFIC CONTROL PLAN AND TO AID IN YOUR PLANNING FOR STAGING/STORAGE OF MATERIALS AND EQUIPMENT. YOUR TRAFFIC CONTROL PLAN WILL INCLUDE DETAILED CONTROLS INCLUDING FLAGGERS, LANE CLOSURES, AND SIGNS FOR ALL ITEMS OF ROAD WORK WHICH WILL REQUIRE ALTERATION OF EXISTING TRAFFIC PATTERNS. THE LEGEND SHOWS THE LIST OF SIGNS TO BE REQUIRED AS A MINIMUM.
  2. YOUR TRAFFIC CONTROL PLAN WILL ADDRESS EACH PHASE OF CONSTRUCTION (e.g. PIPE PLACEMENT, STRUCTURES ADJACENT TO AND/OR AFFECTING THE ROADWAY, ETC.) AND WILL CONFORM TO PART 6 OF THE CALIFORNIA MUTCD ENTITLED "TEMPORARY TRAFFIC CONTROL" AND THE SPECIAL PROVISIONS. YOUR TRAFFIC CONTROL PLAN WILL ALSO INCLUDE ALL SIGNING REQUIRED AT INTERSECTING STREETS WITHIN THE AREA THAT WILL REQUIRE TRAFFIC CONTROL.
  3. SINGLE LANE CLOSURES WILL BE ALLOWED FOR THE INSTALLATION OF CURB AND GUTTER, SIDEWALK, BIKE PATH, R&R AC DRIVEWAY, AND PIPE (VARIOUS LOCATIONS). AT ALL OTHER TIMES, TWO LANES OF TRAFFIC WILL BE MAINTAINED.
  4. AT THE END OF EACH WORK DAY A MINIMUM OF TWO 10 FOOT LANES WILL BE OPENED TO PUBLIC TRAFFIC. NO LANE CLOSURE WILL PREVENT RESIDENTS FROM ACCESS TO THEIR PROPERTY.
  5. WHEN LANE CLOSURES ARE REMOVED AND ROADS ARE OPEN TO PUBLIC TRAFFIC, ALL DRIVEWAYS WITHIN THE WORK AREA WILL BE ACCESSIBLE AND OPERATIONAL.
  6. YOU WILL NOT EXCAVATE MORE THAN CAN BE INSTALLED AND BACKFILLED IN ONE WORKING DAY.
  7. YOUR TRAFFIC CONTROL PLAN WILL INCLUDE COORDINATION WITH THE CALTRANS ENCROACHMENT PERMIT OFFICE FOR APPROVAL OF SIGNAGE ON US50 FOR TRAFFIC CONTROL RELATED TO TRUCKS ENTERING THE PROJECT AREA FROM US 50.
  8. YOUR ATTENTION IS DIRECTED TO THE SWPPP, TEMPORARY EROSION CONTROL SHEETS, REVEGETATION PLAN SHEET, AND THE SPECIAL PROVISIONS REGARDING TEMPORARY EROSION CONTROL REQUIREMENTS FOR STAGING AREAS.
  9. STAGING AREAS SHOWN ARE FOR THE TEMPORARY STORAGE OF CONSTRUCTION MATERIALS AND EQUIPMENT WHICH ARE TO BE USED ON THIS PROJECT.
  10. TEMPORARY DAYTIME CLOSURES OF APACHE AVE BETWEEN TWO SEQUENTIAL STREETS WILL BE ALLOWED, WITH THE EXCEPTION OF APACHE AVENUE BETWEEN US 50 AND ARROWHEAD AVENUE. ACCESS FOR LOCAL RESIDENTS AND EMERGENCY VEHICLES MUST BE ALLOWED AT ALL TIMES.

**LEGEND**

	PROPOSED STAGING AREA WITH SF
	APPROXIMATE SIGN LOCATION
	"END ROAD WORK" SIGN
	"ROAD WORK AHEAD" SIGN
	"ONE LANE ROAD XXX FT" SIGN
	"BE PREPARED TO STOP" SIGN

NOTE: THIS PROJECT IS LOCATED IN AN ENVIRONMENTALLY SENSITIVE AREA. YOU MUST EXERCISE UTMOST CARE TO PROTECT AND MAINTAIN EXISTING VEGETATION AND MINIMIZE SOIL COMPACTION WITHIN CONSTRUCTION AREAS.

SCALE: 1" = 120'

REVISION	NUMBER	DATE	DESCRIPTION	BY



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 REGISTERED CIVIL ENGINEER  
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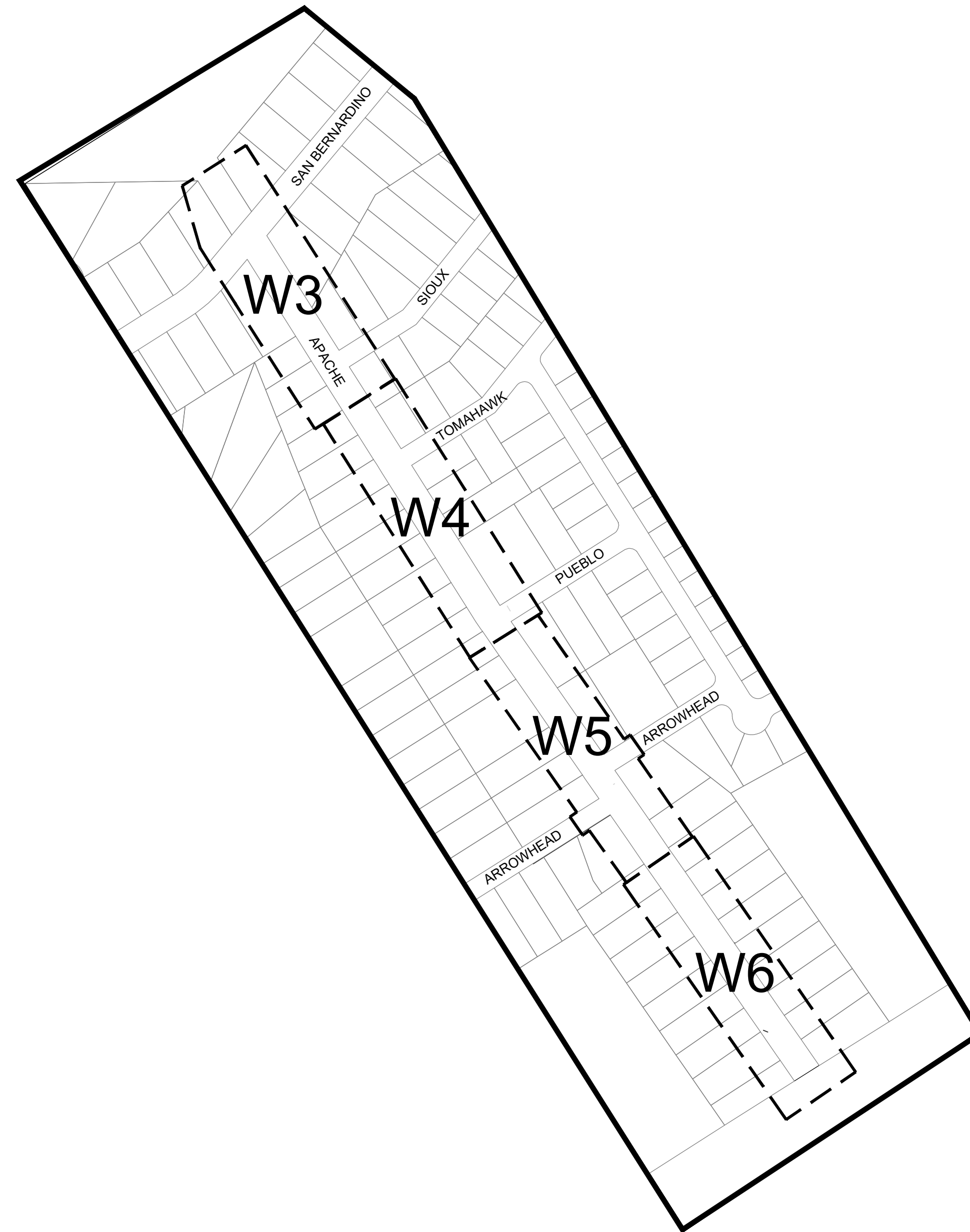
**COUNTY OF EL DORADO**  
**COMMUNITY DEVELOPMENT SERVICES**  
**TRANSPORTATION DEPARTMENT**

**APACHE AVENUE PEDESTRIAN SAFETY AND**  
**CONNECTIVITY PROJECT**  
**TEMPORARY EROSION CONTROL**

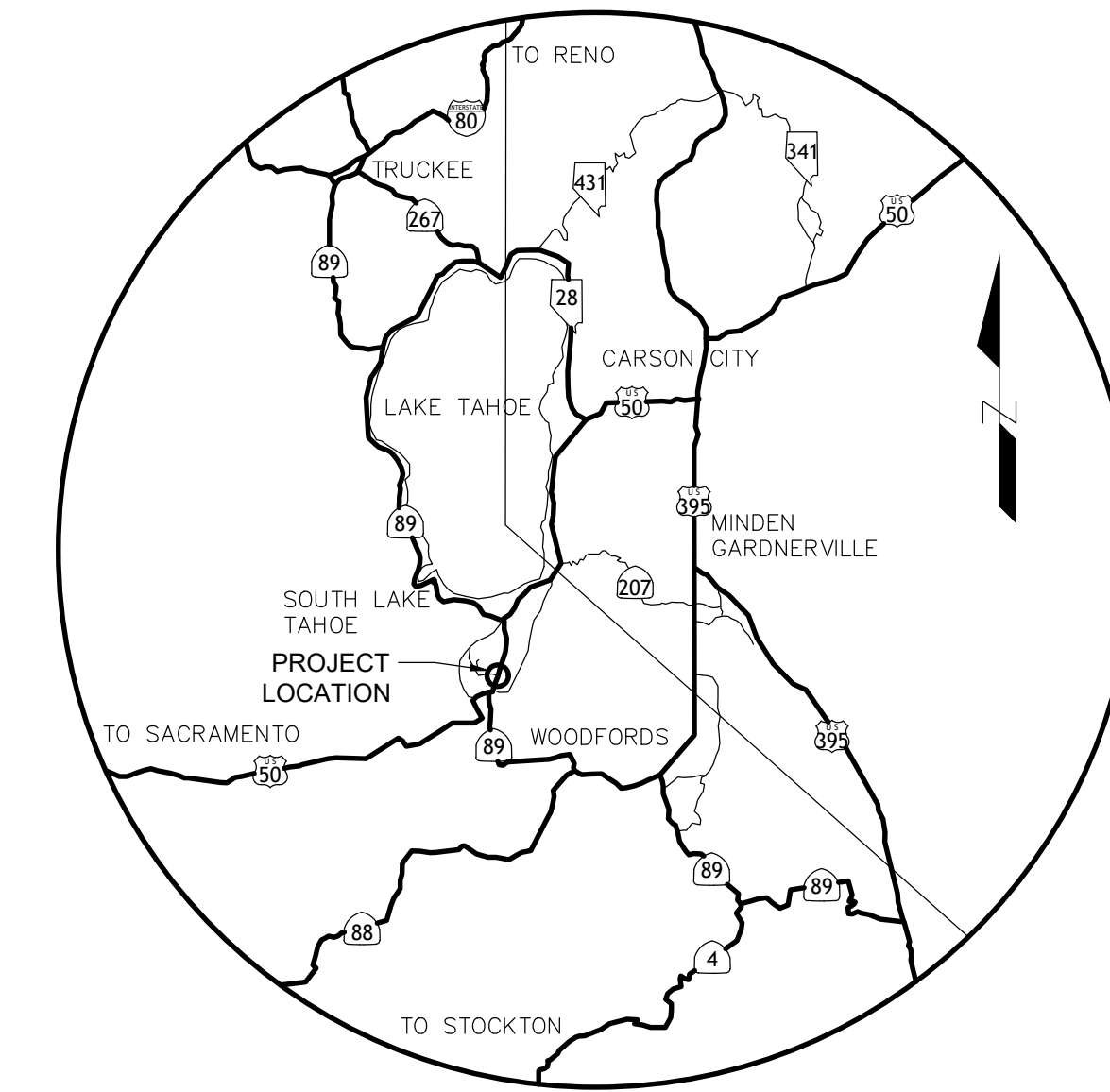
SHEET  
**TC-1**  
 33 OF 33  
 CONTRACT NO.  
**7922**  
 CIP No.  
**95199**

# 2024 APACHE WATERLINE REPLACEMENT PROJECT

## SOUTH TAHOE PUBLIC UTILITY DISTRICT



SHEET INDEX



VICINITY MAP

BOARD OF DIRECTORS  
SOUTH TAHOE PUBLIC UTILITY DISTRICT

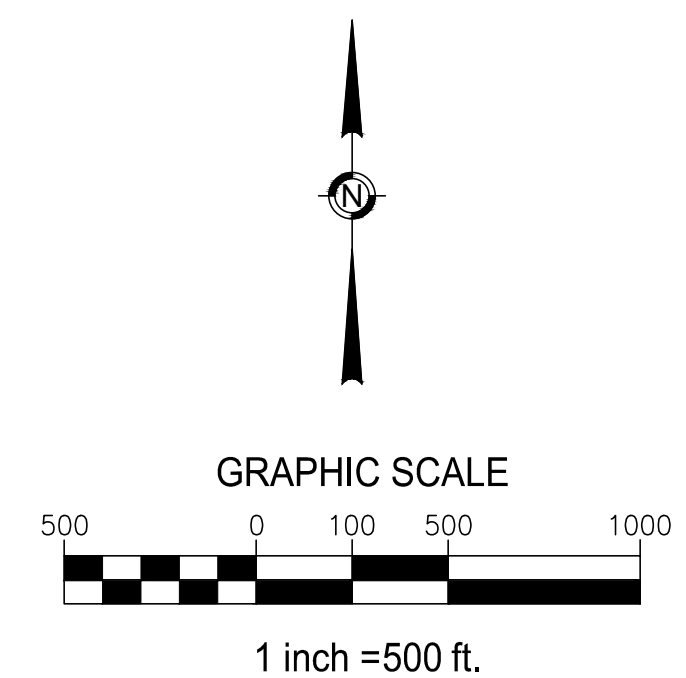
DIRECTORS

NICK EXLINE  
NICK HAVEN  
DAVID PETERSON  
SHANE ROSMOS  
KELLY SHEEHAN

GENERAL MANAGER

PAUL HUGHES

SHEET	TITLE
W1	COVER SHEET
W2	GENERAL NOTES
W3	PLAN SHEET - STA 100+00 TO STA 105+63
W4	PLAN SHEET - STA 105+63 TO STA 111+32
W5	PLAN SHEET - STA 111+32 TO STA 116+94
W6	PLAN SHEET - STA 116+94 TO STA 122+34
W7	DETAILS
W8	DETAILS
W9	PROFILES
W10	PROFILES



SOUTH TAHOE PUBLIC UTILITY DISTRICT  
 A PUBLIC AGENCY  
 1275 Meadow Crest Drive South Lake Tahoe, California 96150  
 Phone (530) 544-6474 Fax (530) 544-4319  
 WWW.STPUD.US

2024 APACHE WATERLINE  
REPLACEMENT PROJECT  
COVER SHEET



DATE: JAN 2024  
 SCALE: AS SHOWN  
 DRAWN: TCJ  
 DESIGN: AC/TCJ  
 AS BUILT:

**W1**  
34 OF 43  
SHEETS

# ABBREVIATIONS

AB	AGGREGATE BASE	OHU	OVERHEAD UTILITY
ABND	ABANDONED	OS	OFFSET
AC	ASPHALT CONCRETE	P	PROPOSED
APPX	APPROXIMATELY	PCC	PORTLAND CEMENT CONCRETE
AVE	AVENUE	PE, POLY	POLYETHYLENE
C&G	CURB AND GUTTER	PL	PROPERTY LINE
CF	CUBIC FEET	PP	POWER POLE
CL	CENTERLINE	PSF	POUNDS PER SQUARE FOOT
CPLG	COUPLING	PSI	POUNDS PER SQUARE INCH
CPS	COPPER PIPE SIZE	PTW	PIPE TRACER WIRE
CSLT	CITY OF SOUTH LAKE TAHOE	PUE	PUBLIC UTILITY EASEMENT
DI	DRAINAGE INLET	PVC	POLYVINYL CHLORIDE
DIA	DIAMETER	QTY	QUANTITY
DIP	DUCTILE IRON PIPE	R	RADIUS
DW	DRIVE WAY	RCP	REINFORCED CONCRETE PIPE
E	EXISTING	REF	REFERENCE
EA	EACH	REQD	REQUIRED
EDC	EL DORADO COUNTY	REVEG	REVEGETATION
EG	EXISTING GRADE	RJ	RESTRAINED JOINT
ELEC	ELECTRIC	RT	RIGHT
ELEV	ELEVATION	ROW	RIGHT-OF-WAY
ELL	ELBOW	SCO	SEWER CLEAN OUT
EOP	EDGE OF PAVEMENT	SCH	SCHEDULE
ESMT	EASEMENT	SD	STORM DRAIN
FE	FLANGE	SDMH	STORM DRAIN MANHOLE
FG	FINISHED GRADE	SFD	SINGLE FAMILY DWELLING
FH	FIRE HYDRANT	SQ FT	SQUARE FOOT
FL	FLOW LINE	SHT	SHEET
FM	FORCE MAIN	SPEC	SPECIFICATIONS
G	GAS	SQ	SQUARE
GA	GAUGE	SS	SANITARY SEWER, STAINLESS STEEL
GALV	GALVANIZED	SSL	SANITARY SEWER LATERAL
GB	GRADE BREAK	SSMH	SANITARY SEWER MANHOLE
GPM	GALLONS PER MINUTE	ST	STREET
GS	GAS SERVICE, GROUND SHOT	STA	STATION
H	HEIGHT	STD	STANDARD
HORZ, HO	HORIZONTAL, HORIZONTAL OFFSET	STL	STEEL
HWY	HIGHWAY	STPUD	SOUTH TAHOE PUBLIC UTILITY DISTRICT
ID	INSIDE DIAMETER	STR	STRUCTURE
IE	INVERT ELEVATION	SVC	SERVICE
INV	INVERT	TEL	TELEPHONE
IPS	IRON PIPE SIZE	TAN	TANGENT
JT	JOINT	TBC	TOP BACK CURB
L	LENGTH	TBD	TO BE DETERMINED
LF	LINEAR FEET	TBR	TO BE REMOVED
LN	LANE	TEMP	TEMPORARY
LOC	LOCATION	TG	TOP OF GRATE
LT	LEFT	TR	TOP OF RIM
LTUSD	LAKE TAHOE UNIFIED SCHOOL DISTRICT	TRPA	TAHOE REGIONAL PLANNING AGENCY
MAX	MAXIMUM	TYP	TYPICAL
MECH	MECHANICAL	UG	UNDERGROUND
MFR	MANUFACTURER	UGE	UNDERGROUND ELECTRICAL
MH	MANHOLE	USFS	U.S. FOREST SERVICE
MJ	MECHANICAL JOINT	UTIL	UTILITY
MIN	MINIMUM	V, VO	VERTICAL, VERTICAL OFFSET
N	NORTH/NEW	VAR	VARIES
NA	NOT APPLICABLE	VEG	VEGETATION
NIC	NOT IN CONTRACT	W	WATER
NO	NORMALLY OPEN	WL	WATER LINE
NTS	NOT TO SCALE	W/	WITH
OC	ON CENTER	WM	WATER METER
OD	OUTSIDE DIAMETER	WS	WATER SERVICE
		WV	WATER VALVE
		YD	YARD

# LEGEND

<b>EXISTING:</b>	
SEWER:	— s — s —
WATER:	— w — w —
ABANDONED WATER:	— w(A) — w(A) — w(A) —
GAS:	— g — g —
JOINT TRENCH:	— JT — JT —
UNDERGROUND UTILITY:	— ut — ut — ut — ut —
OVERHEAD UTILITY:	— oh — oh —
EDGE OF GRADING:	— c — c — c — c — c — c —
STORM DRAIN:	— so — so — so —
PROPERTY LINE:	-----
RIGHT-OF-WAY:	-----
EASEMENT:	-----
SETBACK:	-----
EDGE OF PAVEMENT:	-----
EDGE OF SD CHANNEL:	-----
WATER MAIN VALVE:	WV
WATER METER:	WM
FIRE HYDRANT:	FH
SEWER MANHOLE:	SMH
POWER POLE:	PP
ELEC/COMM/TELE VAULT:	EV
SIGN:	S
TREE OR BUSH:	T, B

<b>PROPOSED:</b>	
WATER MAIN LINE:	=====
SVC & FH LINES:	=====
WATER MAIN VALVE:	●
FIRE HYDRANT:	●
CUT AND CAP EXISTING MAIN:	┌
WATER REDUCER:	▶

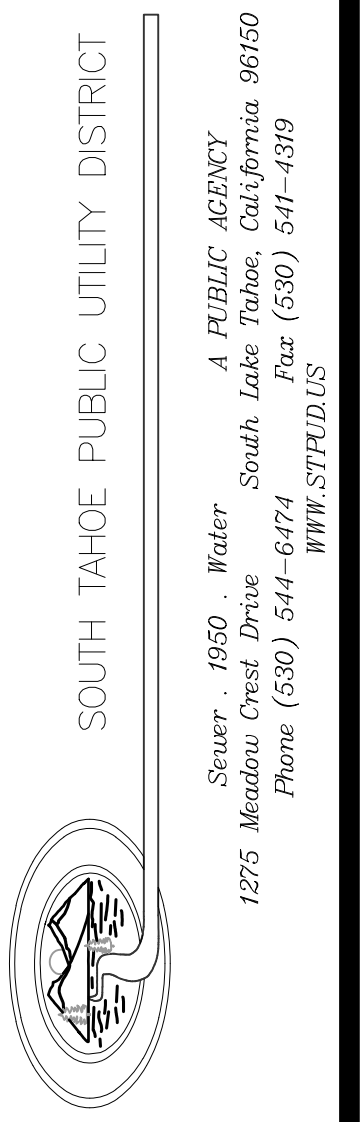
# AGENCY & UTILITY CONTACTS

CALTRANS 24HOUR EMERGENCY (530) 426-7600 (916) 859-7900
EL DORADO COUNTY SHERIFF'S OFFICE NON EMERGENCY (530) 573-3000
EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION (530) 573-3180
SOUTH TAHOE PUBLIC UTILITY DISTRICT (530) 544-6474
EL DORADO COUNTY ENVIRONMENTAL MANAGEMENT (530) 573-3450
TAHOE REGIONAL PLANNING AGENCY (775) 588-4547
SOUTHWEST GAS (NATURAL GAS) (800) 772-4555
CHARTER COMMUNICATIONS INC. (CABLE TV) (775) 588-1077
LIBERTY ENERGY (ELECTRIC) (530) 541-1628 (775) 689-4100 COLLECT
ATT/SBC (TELEPHONE) 611 (PRESS "0" FOUR TIMES) (800) 310-2355 OPTION #2
LAKE VALLEY FIRE PROTECTION DISTRICT (530) 577-3737

# GENERAL NOTES

- CONTRACTOR SHALL HAVE SIGNED PLANS, SPECIFICATION AND PERMITS IN THEIR POSSESSION PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES, LOCAL AGENCIES AND/OR UTILITY DISTRICTS AS TO THE LOCATION OF ALL UNDERGROUND FACILITIES. LOCATION AND DEPTH OF EXISTING UTILITIES WHERE SHOWN ON PLANS ARE BASED ON BEST AVAILABLE INFORMATION. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION OR THAT ALL UTILITIES ARE SHOWN. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE, PROTECT, AND MAINTAIN ALL EXISTING UTILITIES. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACTOR SHALL NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING UNDERGROUND SERVICE ALERT 811. EXCAVATION IS DEFINED AS BEING 18 OR MORE INCHES OF DEPTH BELOW THE EXISTING SURFACE.
- THE CONTRACTOR SHALL POTHOLE ALL UTILITY AND STORM DRAIN CROSSINGS ALONG THE PIPELINE ALIGNMENT IN ADVANCE OF INSTALLATION. THE CONTRACTOR SHALL REPORT THE RESULTS OF THE POTHOLE IN WRITING TO THE ENGINEER 48 HOURS (NOT TO INCLUDE WEEKENDS OR HOLIDAYS) PRIOR TO UNDERTAKING ANY CORRECTIVE ACTION BY THE CONTRACTOR REGARDING FACILITY LOCATION OR ALIGNMENT. SHOULD ANY CORRECTIVE WORK BE DONE PRIOR TO NOTIFICATION, THE DISTRICT ASSUMES NO LIABILITY FOR THE COSTS INCURRED FOR THIS WORK.
- CONTRACTOR TO BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND ANY OTHER SURVEY MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS OR MARKERS DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY A CALIFORNIA LICENSED SURVEYOR AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL APPLY EITHER WATER OR DUST PALLIATIVE OR BOTH, AS REQUIRED AT THE OPTION OF THE OWNER OR HIS REPRESENTATIVE, FOR THE ALLEVIATION OR PREVENTION OF DUST NUISANCE.
- THE CONTRACTOR SHALL COMPLY WITH THE TAHOE REGIONAL PLANNING AGENCY STANDARD CONDITIONS OF APPROVAL. A PRE-GRADE INSPECTION SHALL BE COMPLETED PRIOR TO ANY SAWCUTTING OR EXCAVATION ACTIVITIES.
- THE CONTRACTOR SHALL COMPLY WITH THE STATE WATER QUALITY CONTROL BOARD WASTE DISCHARGE REQUIREMENTS FOR THIS PROJECT AND EL DORADO COUNTY REQUIREMENTS.
- ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE REVEGETATED BY THE CONTRACTOR IN ACCORDANCE WITH THE TAHOE REGIONAL PLANNING AGENCY HANDBOOK OF BEST MANAGEMENT PRACTICES. APPLICATION OF A MULCH MAY ENHANCE VEGETATIVE ESTABLISHMENT. NO EQUIPMENT OR VEHICLES SHALL BE PLACED OUTSIDE THE STATE, CITY, OR COUNTY RIGHT OF WAY. ANY DISTURBANCE OF PRIVATE PROPERTY SHALL BE RESTORED BY THE CONTRACTOR AT THEIR EXPENSE.
- ALL EXCESS MATERIAL FROM THE PROJECT IS TO BE REMOVED FROM THE SITE AND DISPOSED OF AT A SITE APPROVED BY THE TAHOE REGIONAL PLANNING AGENCY. NO EXCESS MATERIAL SHALL BE STORED ON SITE AFTER HOURS.
- ALL INTERTIES BETWEEN NEW WATER MAINS AND THE EXISTING WATER SYSTEM, INCLUDING NEW WATER SERVICE CONNECTIONS, AND FIRE HYDRANT INSTALLATIONS AND TRANSFERS, SHALL ONLY BE MADE AFTER ALL PRESSURE TESTING AND DISINFECTION REQUIREMENTS ARE SATISFACTORILY MET. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL BLOW OFFS NECESSARY FOR FLUSHING AND SAMPLING OF ALL NEW WATER MAINS AS REQUIRED BY THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD AND PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL REPLACE ALL TRAFFIC STRIPING THAT IS DISTURBED DURING CONSTRUCTION.
- ALL EXCAVATIONS SHALL BE BACKFILLED OR TRENCH PLATED AT THE END OF EACH DAY'S WORK PER THE SPECIFICATIONS. EXCAVATIONS WITHIN EXISTING PAVED AREAS SHALL BE COLD PATCHED AS REQUIRED PER SPECIFICATIONS TO MATCH THE EXISTING PAVEMENT AT THE END OF EACH DAY'S WORK. ALL TRENCH PLATES SHALL BE NON-SKID TYPE AND HAVE COLD PATCH APPLIED TO THE EDGE FOR TRAFFIC APPROACH AND DEPARTURE.
- THE CONTRACTOR SHALL PROVIDE, ON ALL NON-CONDUCTIVE PIPING, CONTINUOUS INSULATED TRACER WIRE RATED FOR DIRECT BURY (#10 SOLID COPPER OR #12 COPPER CLAD STEEL WIRE ALONG THE PIPELINE AND PROVIDE ACCESS TO TRACER WIRE AT ALL VALVE BOX INSTALLATIONS WITH A MINIMUM OF 1 FT EXCESS TRACER WIRE FOR FUTURE SERVICE CONNECTIONS. THIS SHALL ALSO APPLY TO ALL CONDUCTIVE PIPING UNLESS PERMANENTLY BONDED AT EACH JOINT. ALL TRACER WIRE CONNECTIONS SHALL BE MADE USING 3M DBR-6 SPLICE KIT OR APPROVED EQUAL.
- THE CONTRACTOR SHALL PROTECT AND BE RESPONSIBLE FOR ANY DISTURBANCE OR

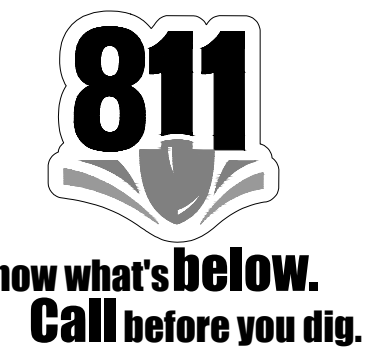
- CONTAMINATION TO ANY DRY WELLS, STORM WATER COLLECTION OR RETAINAGE SYSTEMS INCLUDING STORM DRAIN PIPE, CURB & GUTTER, VALLEY GUTTERS AND HORIZONTAL DRAINS THROUGH OUT THE PROJECT AREA. ANY DAMAGE SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE DISTRICT. THE CONTRACTOR SHALL NOT STOCK PILE ANY MATERIAL UPON ANY DRAINAGE FACILITIES.
- CONTRACTOR SHALL REMOVE ALL MATERIAL GENERATED BY ANY ASPHALT SAW CUTTING OPERATION DURING OR IMMEDIATELY AFTER SAWCUTTING BY USING ADEQUATELY SIZED VACUUMING EQUIPMENT TO ACCOMMODATE THE REMOVAL PROCESS.
- ALL SEWER PIPES DAMAGED DURING THE EXECUTION OF THE PROJECT SHALL BE REPAIRED PER DETAILS.
- AFTER THE NEW MAIN IS PLACED INTO SERVICE, THE EXISTING WATER MAINS, WHERE SHOWN ON THE PROJECT DRAWINGS, ARE TO BE ABANDONED IN PLACE BY CUTTING OUT A SECTION OF PIPE AND WELDING A CAP ON THE END OF THE PIPELINE. OR OTHER APPROVED METHOD OF CAPPING. BLIND-FLANGE CAPPING SHALL BE UTILIZED WHERE POSSIBLE. ALL EXPOSED CORPORATION STOPS ON THE EXISTING WATER MAINS ARE TO BE LEFT IN PLACE IN THE CLOSED POSITION. FOR CORPORATION STOPS THAT HAVE NOT BEEN EXPOSED, THE CAPPING OF THE END OF THE SERVICE LINE USING AN APPROVED COMPRESSION FITTING SHALL BE ACCEPTABLE. EXISTING FIRE HYDRANTS TO BE ABANDONED AT THE ISOLATION VALVE. REMOVED FROM THE PROJECT AREA AND RETURNED TO THE DISTRICT, BY THE CONTRACTOR. THE ISOLATION VALVE IS TO BE BLIND FLANGED OR CAPPED BY OTHER APPROVED METHOD.
- ALL EXISTING WATER SERVICES FOR THIS PROJECT SHALL BE ABANDONED PER NOTE #17. ONLY NEW WATER SERVICE CONNECTIONS WHERE SHOWN ON THE PROJECT PLANS SHALL BE INSTALLED PER THE DISTRICTS STANDARD DETAILS AND PROJECT DRAWINGS. THE LOCATIONS OF ALL EXISTING WATER SERVICES SHALL BE VERIFIED AND MARKED IN THE FIELD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HANDLING AND PROPER DISPOSAL OF DISTRIBUTION SYSTEM WATER ENCOUNTERED DURING SYSTEM TIE-INS IN ACCORDANCE WITH THE SPECIFICATIONS. FOR THIS PROJECT, THE CONTRACTOR SHALL ASSUME THAT UP TO 1,250 GALLONS WILL BE ENCOUNTERED AT EACH TIE-IN.
- CONTRACTOR SHALL EXPECT SHALLOW GROUNDWATER TO BE ENCOUNTERED. DEWATERING PER SPECIFICATIONS REQUIRED.

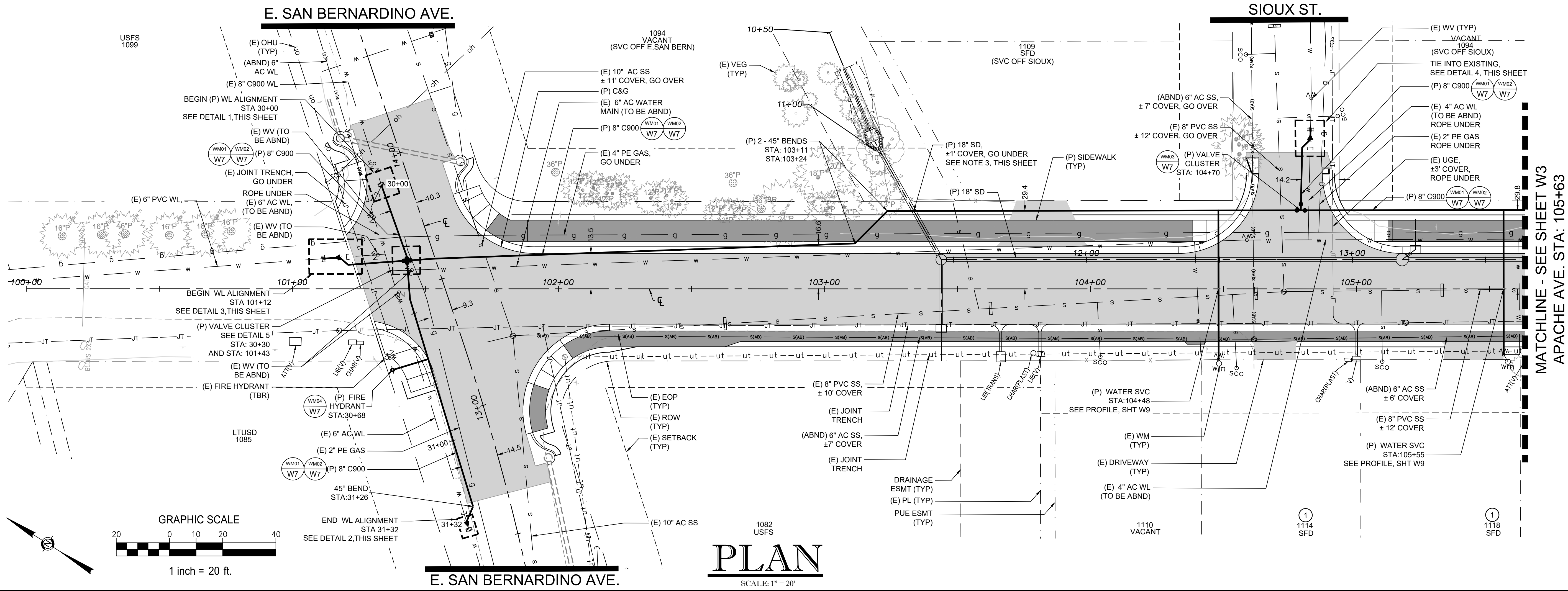


# 2024 APACHE WATERLINE REPLACEMENT PROJECT GENERAL NOTES



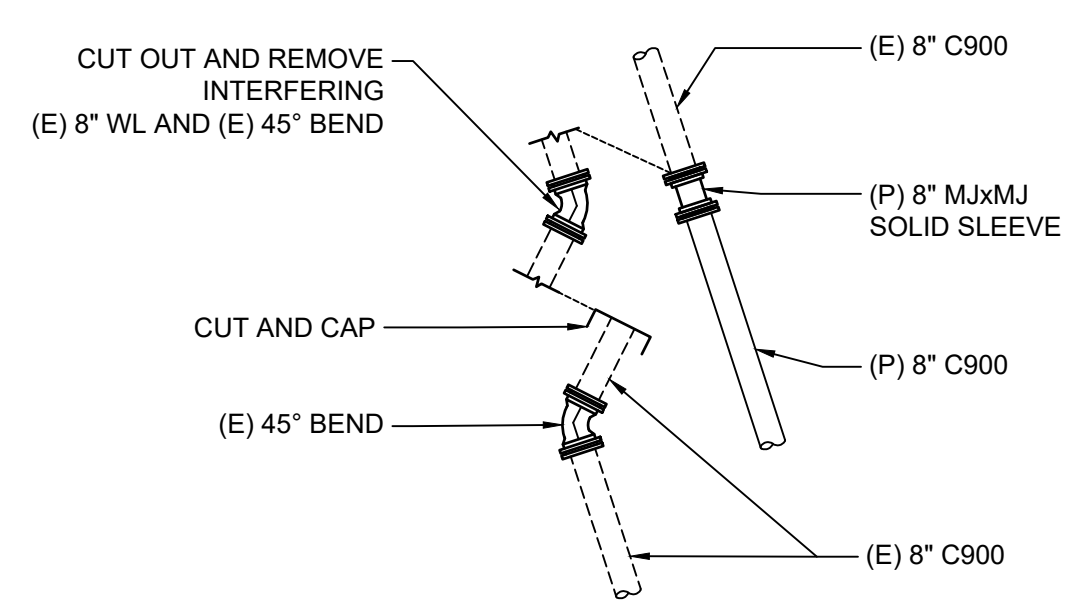
DATE: JAN 2024  
 SCALE: AS SHOWN  
 DRAWN: TCJ  
 DESIGN: AC/TCJ  
 AS BUILT:



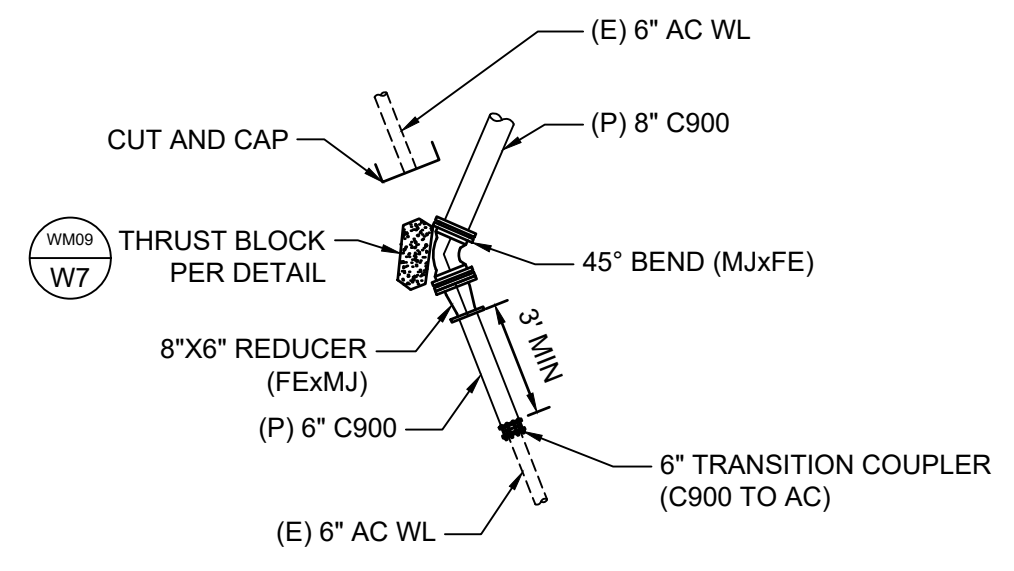


**PLAN**  
SCALE: 1" = 20'

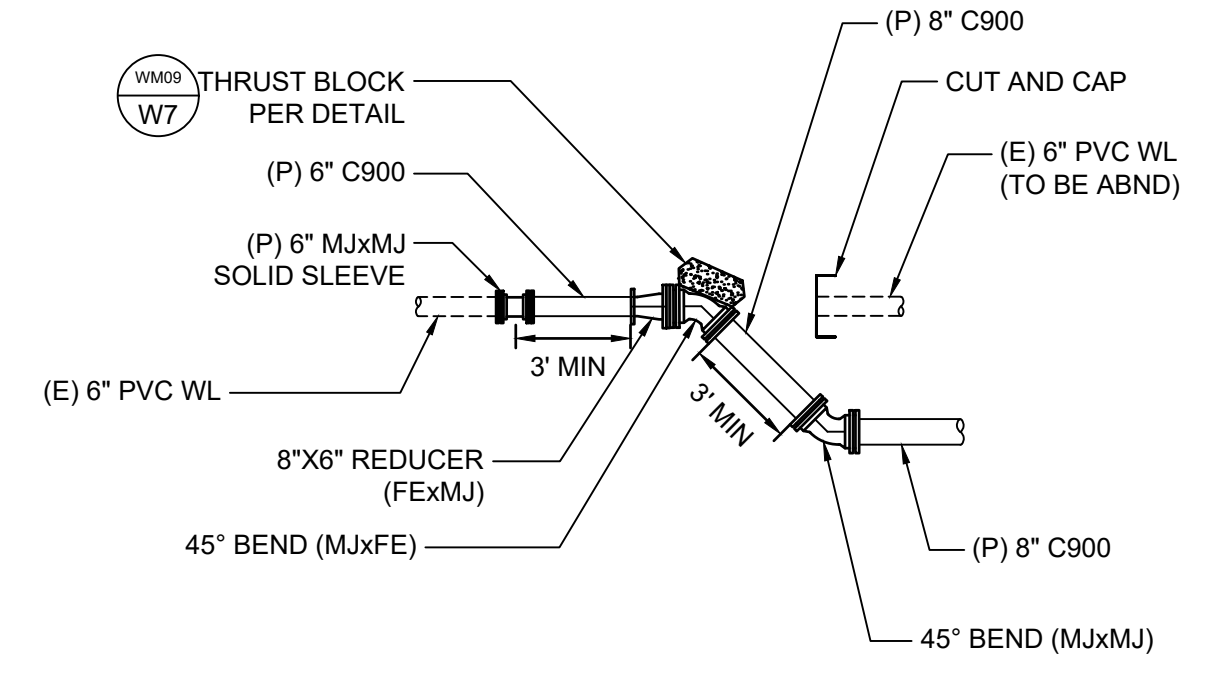
- KEYNOTES:**
- ① PROVIDE SINGLE 3/4" WATER SERVICE ON NEW MAIN AND CONNECT TO EXISTING METER (WS01/W7)
  - ② PROVIDE SINGLE 1" WATER SERVICE ON NEW MAIN AND CONNECT TO EXISTING METER (WS01/W7)
- NOTES:**
1. ACTUAL LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL POTHOLE AND VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.
  2. PROTECT EXISTING UTILITIES THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL REPAIR ANY DAMAGED UTILITIES, PAVEMENT, OR CURB AND GUTTER AS NECESSARY. SEE DETAILS SS04, C01 AND C04 ON SHEET W8.
  3. PROPOSED STORM DRAIN LOCATION TO BE STAKED BY COUNTY. WHERE (P) WL CROSSES UNDERNEATH (P) STORM DRAIN ALIGNMENT, INSTALL FULL STICK OF C900 DR14 CENTERED AT CROSSING AND RESTRAIN JOINTS ON BOTH SIDES. 12" MINIMUM SEPARATION BETWEEN BOTTOM OF STORM DRAIN AND TOP OF WATER LINE.
  4. ALL MJ JOINTS SHALL BE RESTRAINED.
  5. (P) WATER MAIN STATIONING IS BASED OFF EDC ROAD CENTERLINE STATIONING.



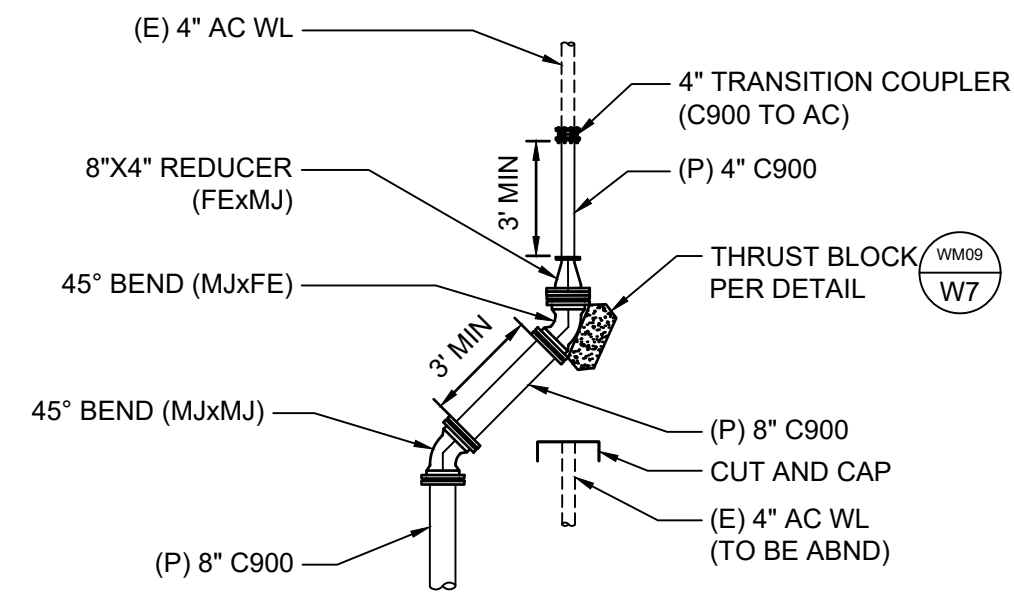
**DETAIL 1**  
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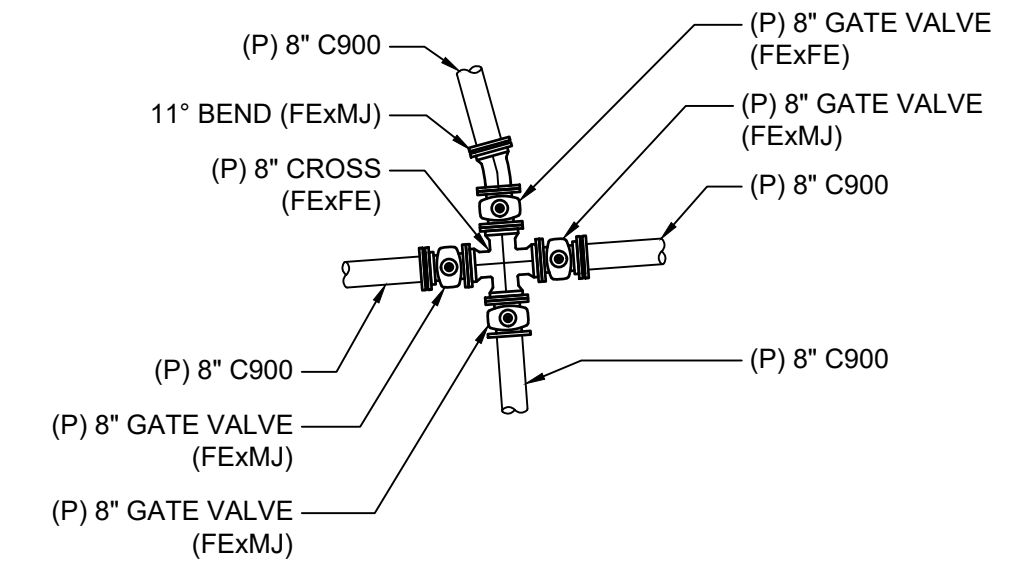
**DETAIL 2**  
NO SCALE



**DETAIL 3**  
NO SCALE



**DETAIL 4**  
NO SCALE



**DETAIL 5**  
NO SCALE

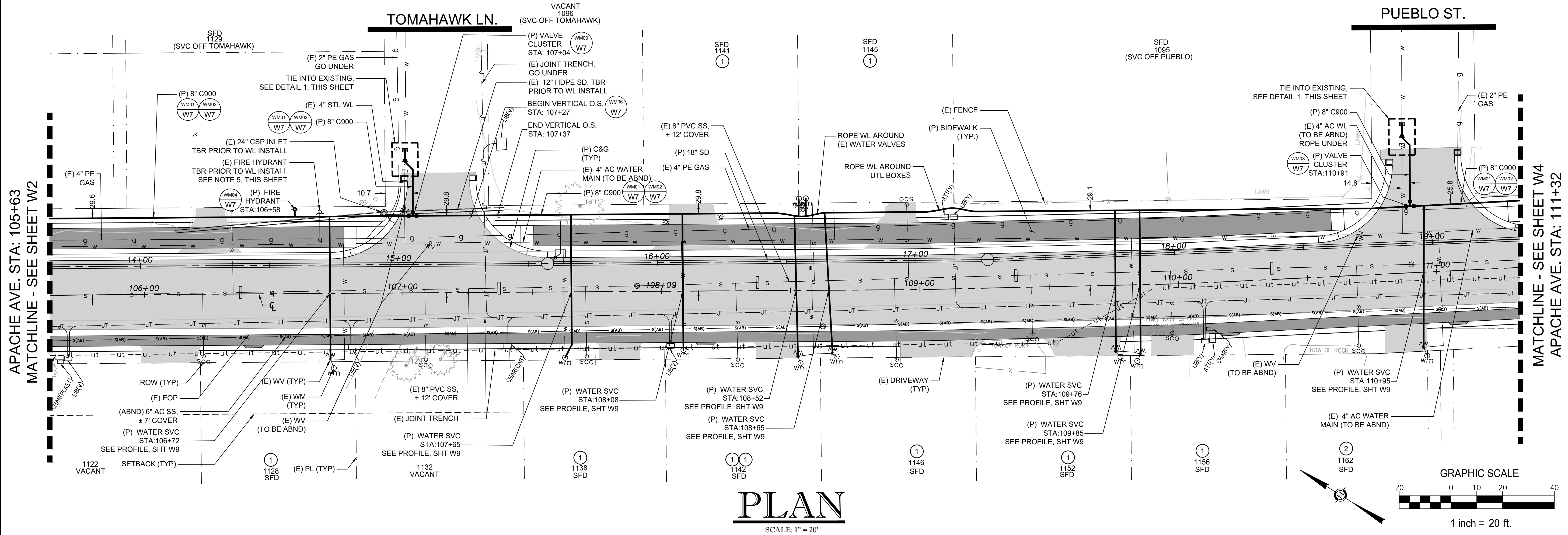
**2024 APACHE WATERLINE  
REPLACEMENT PROJECT  
STA 100+00 TO 105+63**



DATE: JAN 2024  
SCALE: AS SHOWN  
DRAWN: TCJ  
DESIGN: AC/TCJ  
AS BUILT:

**W3**  
36 OF 43  
SHEETS

SOUTH TAHOE PUBLIC UTILITY DISTRICT  
A PUBLIC AGENCY  
1275 Meadows Crest Drive South Lake Tahoe, California 96150  
Phone (530) 544-6474 Fax (530) 541-4379  
WWW.STPD.US



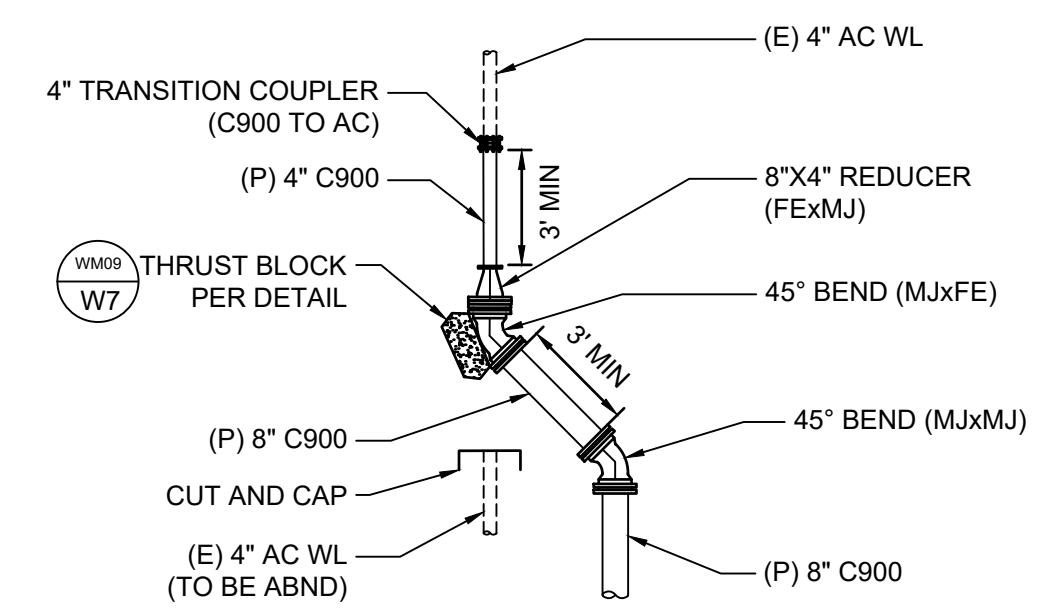
**PLAN**  
SCALE: 1" = 20'

**KEYNOTES:**

- ① PROVIDE SINGLE 3/4" WATER SERVICE ON NEW MAIN AND CONNECT TO EXISTING METER (WS01 W7)
- ② PROVIDE SINGLE 1" WATER SERVICE ON NEW MAIN AND CONNECT TO EXISTING METER (WS01 W7)

**NOTES:**

1. ACTUAL LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL POthOLE AND VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. PROTECT EXISTING UTILITIES THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL REPAIR ANY DAMAGED UTILITIES, PAVEMENT, OR CURB AND GUTTER AS NECESSARY. SEE DETAILS SS04, C01 AND C04 ON SHEET W8.
3. PROPOSED STORM DRAIN LOCATION TO BE STAKED BY COUNTY. WHERE (P) WL CROSSES UNDERNEATH (P) STORM DRAIN ALIGNMENT, INSTALL FULL STICK OF C900 DR14 CENTERED AT CROSSING AND RESTRAIN JOINTS ON BOTH SIDES. 12" MINIMUM SEPARATION BETWEEN BOTTOM/TOP OF STORM DRAIN AND TOP/BOTTOM OF WATER LINE.
4. ALL MJ JOINTS SHALL BE RESTRAINED.
5. CUT AND CAP HYDRANT LATERAL AFTER REMOVING (E) FIRE HYDRANT.
6. (P) WATER MAIN STATIONING IS BASED OFF EDC ROAD CENTERLINE STATIONING.



**DETAIL 1**  
SCALE: 1" = 5'

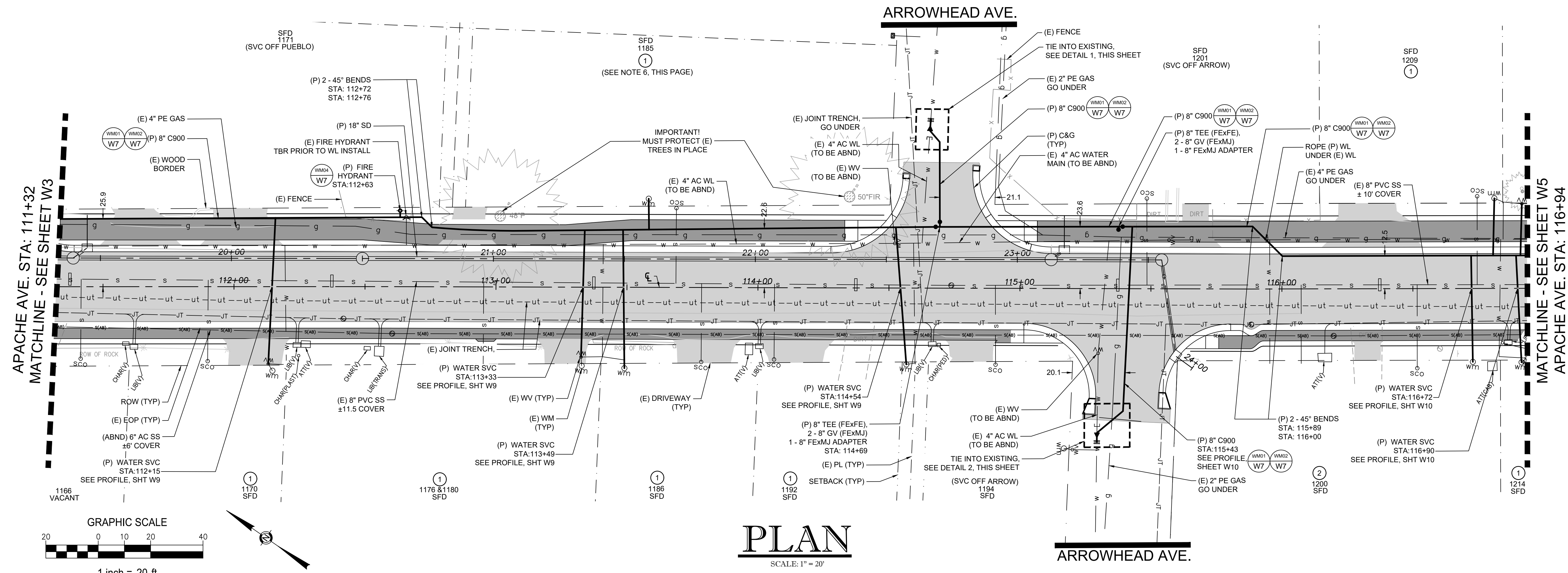
**2024 APACHE WATERLINE  
REPLACEMENT PROJECT  
STA 105+63 TO 111+32**



DATE: JAN 2024  
SCALE: AS SHOWN  
DRAWN: TCJ  
DESIGN: AC/TCJ  
AS BUILT:

**W4**  
39 OF 43  
SHEETS

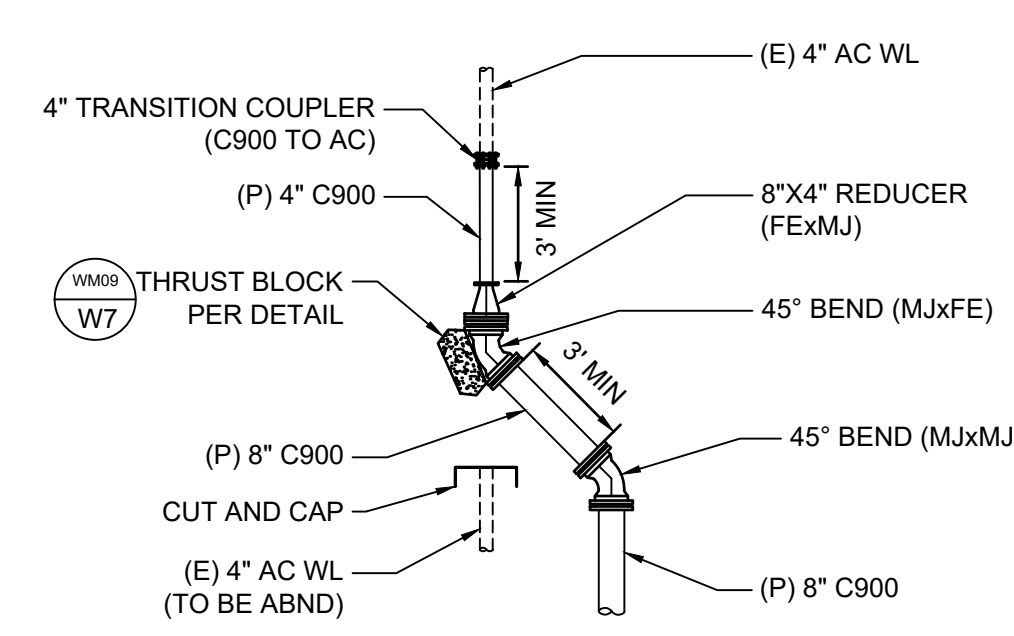
SOUTH TAHOE PUBLIC UTILITY DISTRICT  
A PUBLIC AGENCY  
Seuer, 1950 Water  
1275 Meadow Crest Drive South Lake Tahoe, California 96150  
Phone (530) 544-6474 Fax (530) 544-4319  
WWW.STPD.US



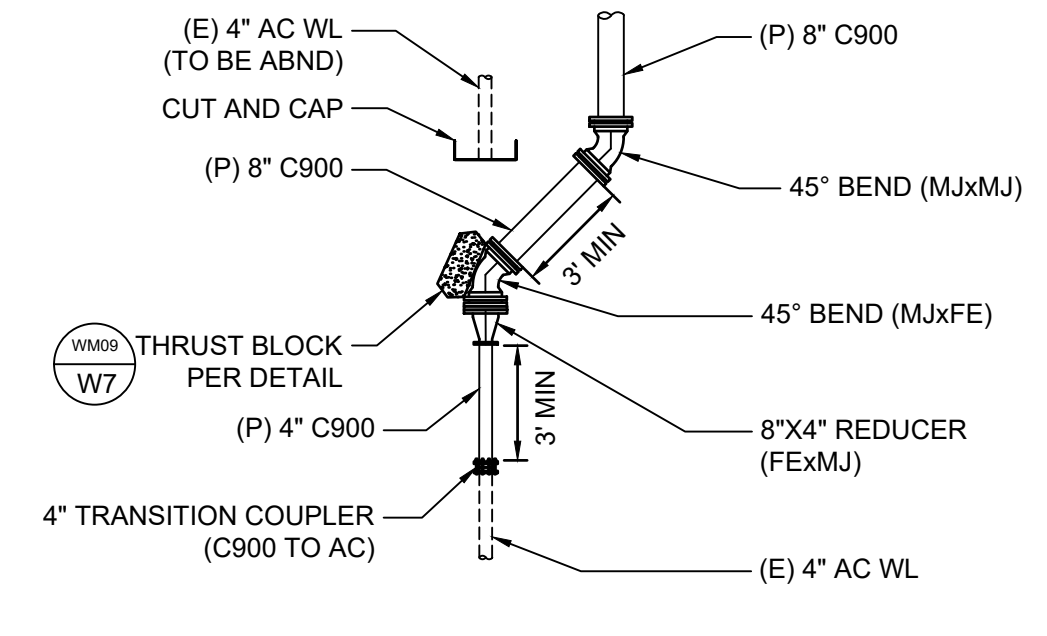
**PLAN**  
SCALE: 1" = 20'

- KEYNOTES:**
- ① PROVIDE SINGLE 3/4" WATER SERVICE ON NEW MAIN AND CONNECT TO EXISTING METER
  - ② PROVIDE SINGLE 1" WATER SERVICE ON NEW MAIN AND CONNECT TO EXISTING METER

- NOTES:**
1. ACTUAL LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL POTHOLE AND VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.
  2. PROTECT EXISTING UTILITIES THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL REPAIR ANY DAMAGED UTILITIES, PAVEMENT, OR CURB AND GUTTER AS NECESSARY. SEE DETAILS SS04, C01 AND C04 ON SHEET W8.
  3. PROPOSED STORM DRAIN LOCATION TO BE STAKED BY COUNTY. WHERE (P) WL CROSSES UNDERNEATH (P) STORM DRAIN ALIGNMENT, INSTALL FULL STICK OF C900 DR14 CENTERED AT CROSSING AND RESTRAIN JOINTS ON BOTH SIDES. 12" MINIMUM SEPARATION BETWEEN BOTTOM/TOP OF STORM DRAIN AND TOP/BOTTOM OF WATER LINE.
  4. ALL MJ JOINTS SHALL BE RESTRAINED.
  5. (P) WATER MAIN STATIONING IS BASED OFF EDC ROAD CENTERLINE STATIONING.
  6. WATER METER COULD NOT BE FOUND IN FIELD DURING DESIGN. LOCATION SHOWN ON PLANS IS THE BEST ESTIMATION BASED ON AVAILABLE DATA AT THE TIME. LOCATE METER DURING CONSTRUCTION PRIOR TO TYING WATER SERVICES INTO NEW MAIN.



**DETAIL 1**  
SCALE: 1" = 5'



**DETAIL 2**  
SCALE: 1" = 5'

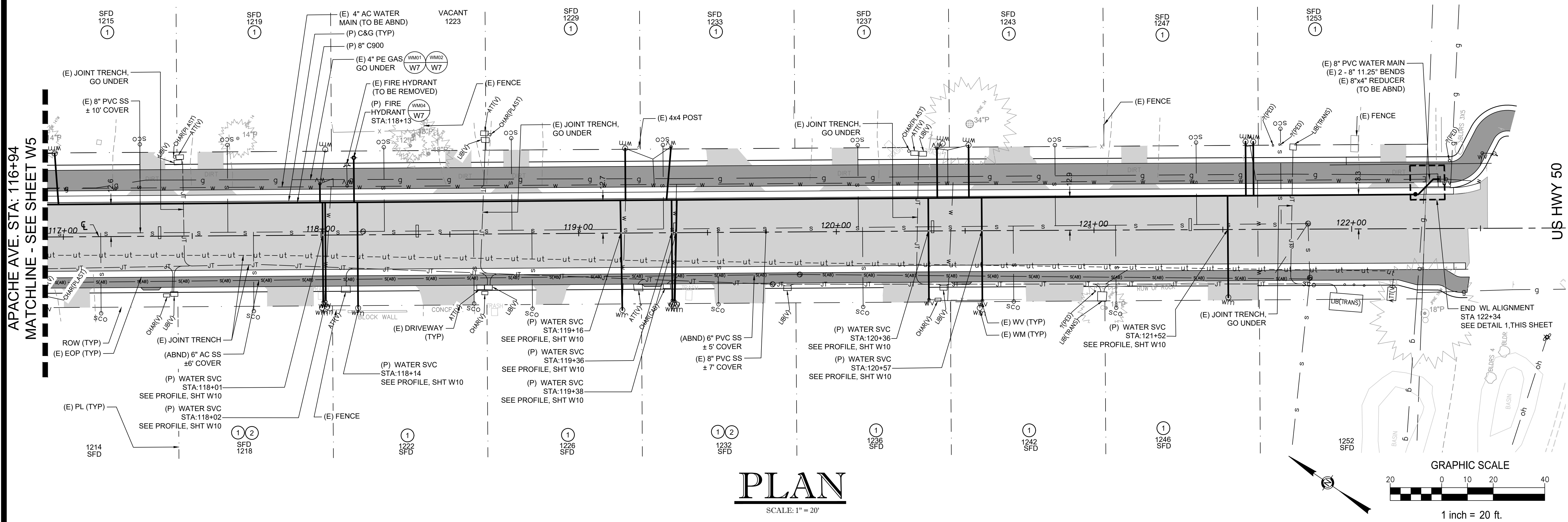
**2024 APACHE WATERLINE  
REPLACEMENT PROJECT  
STA 111+32 TO 116+94**



DATE: JAN 2024  
SCALE: AS SHOWN  
DRAWN: TCJ  
DESIGN: AC/TCJ  
AS BUILT:

**W5**  
38 OF 43  
SHEETS

SOUTH TAHOE PUBLIC UTILITY DISTRICT  
A PUBLIC AGENCY  
1275 Meadows Crest Drive South Lake Tahoe, California 96150  
Phone (530) 544-6474 Fax (530) 541-0319  
WWW.STPD.US

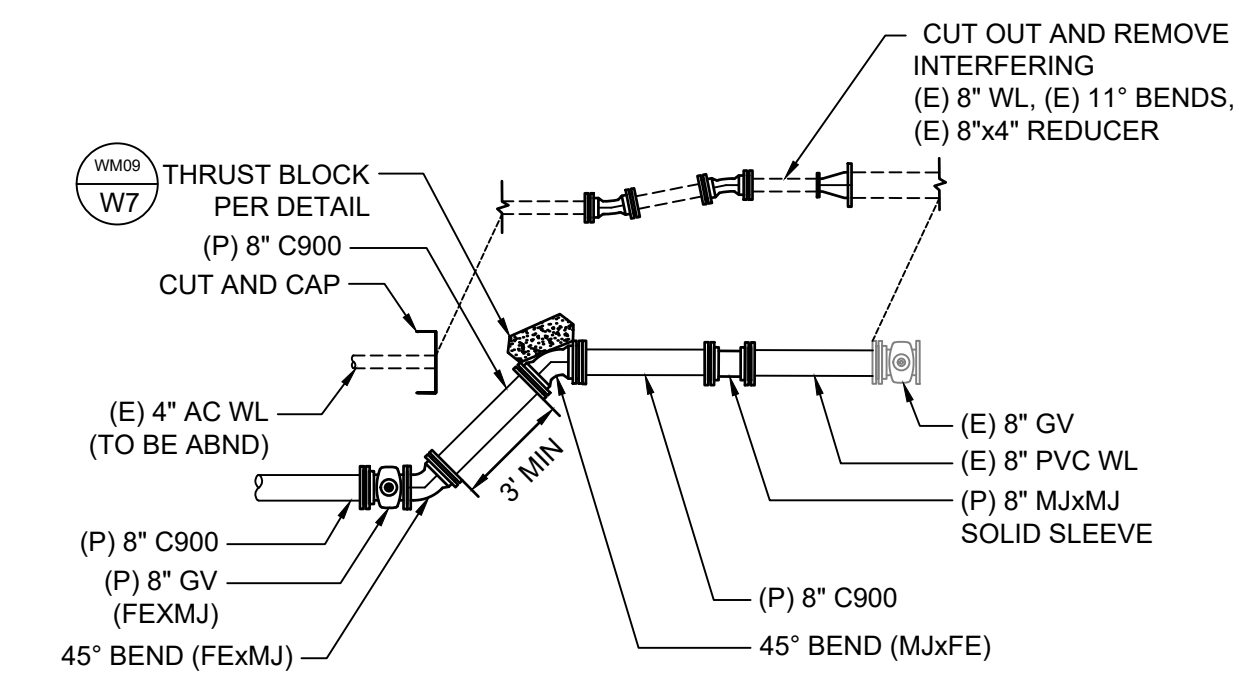


**KEYNOTES:**

- ① PROVIDE SINGLE 3/4" WATER SERVICE ON NEW MAIN AND CONNECT TO EXISTING METER WS01  
W7
- ② PROVIDE SINGLE 1" WATER SERVICE ON NEW MAIN AND CONNECT TO EXISTING METER WS01  
W7

**NOTES:**

1. ACTUAL LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL POT HOLE AND VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. PROTECT EXISTING UTILITIES THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL REPAIR ANY DAMAGED UTILITIES, PAVEMENT, OR CURB AND GUTTER AS NECESSARY. SEE DETAILS SS04, C01 AND C04 ON SHEET W8.
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4. ALL MJ JOINTS SHALL BE RESTRAINED.
5. (P) WATER MAIN STATIONING IS BASED OFF EDC ROAD CENTERLINE STATIONING.



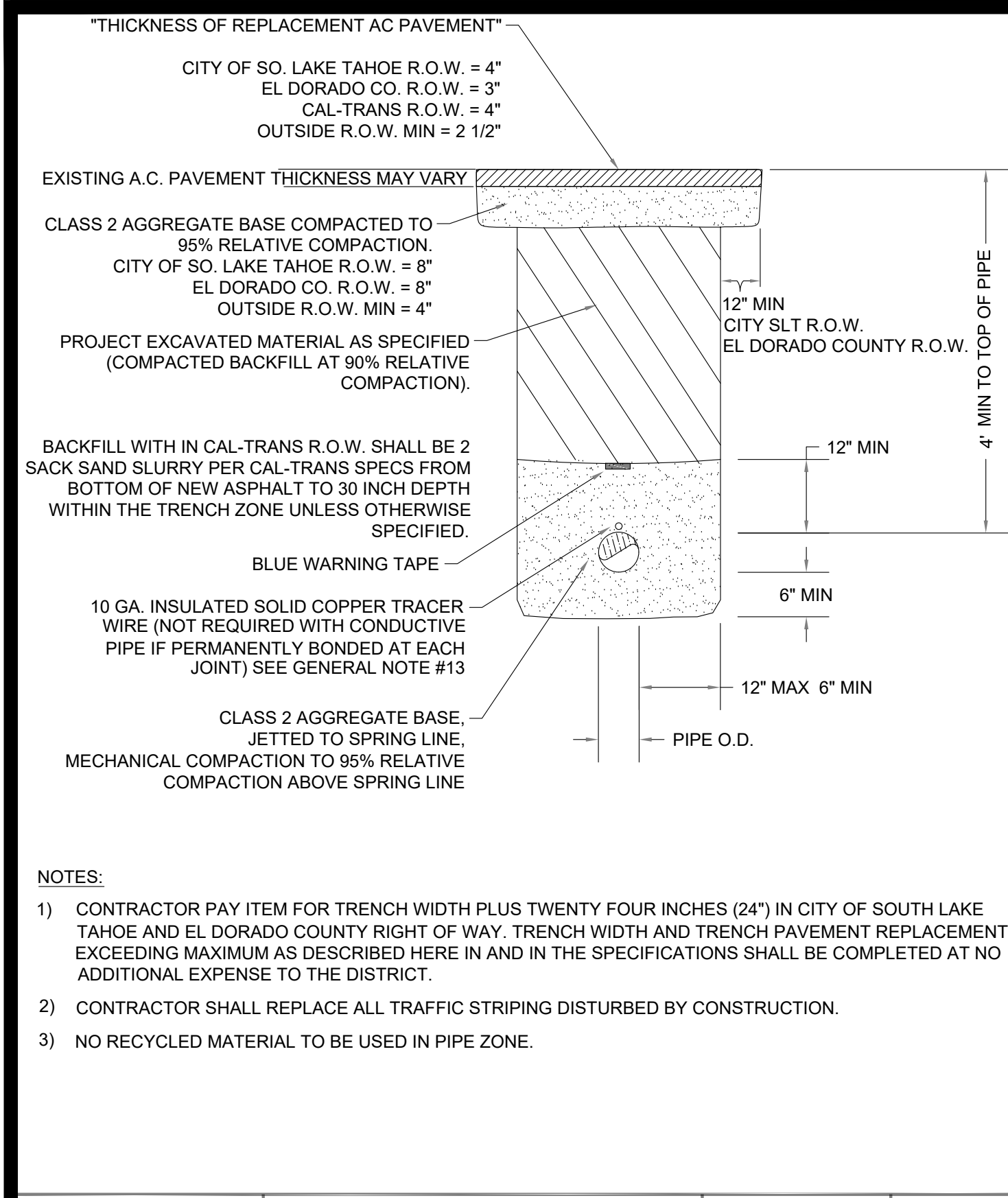
**2024 APACHE WATERLINE  
REPLACEMENT PROJECT  
STA 116+94 TO 122+34**



DATE: JAN 2024  
SCALE: AS SHOWN  
DRAWN: TCJ  
DESIGN: AC/TCJ  
AS BUILT:

**W6**  
39 OF 43  
SHEETS

SOUTH TAHOE PUBLIC UTILITY DISTRICT  
1275 Meadows Crest Drive  
South Lake Tahoe, California 96150  
Phone (530) 544-6474 Fax (530) 544-4319  
WWW.STPD.US

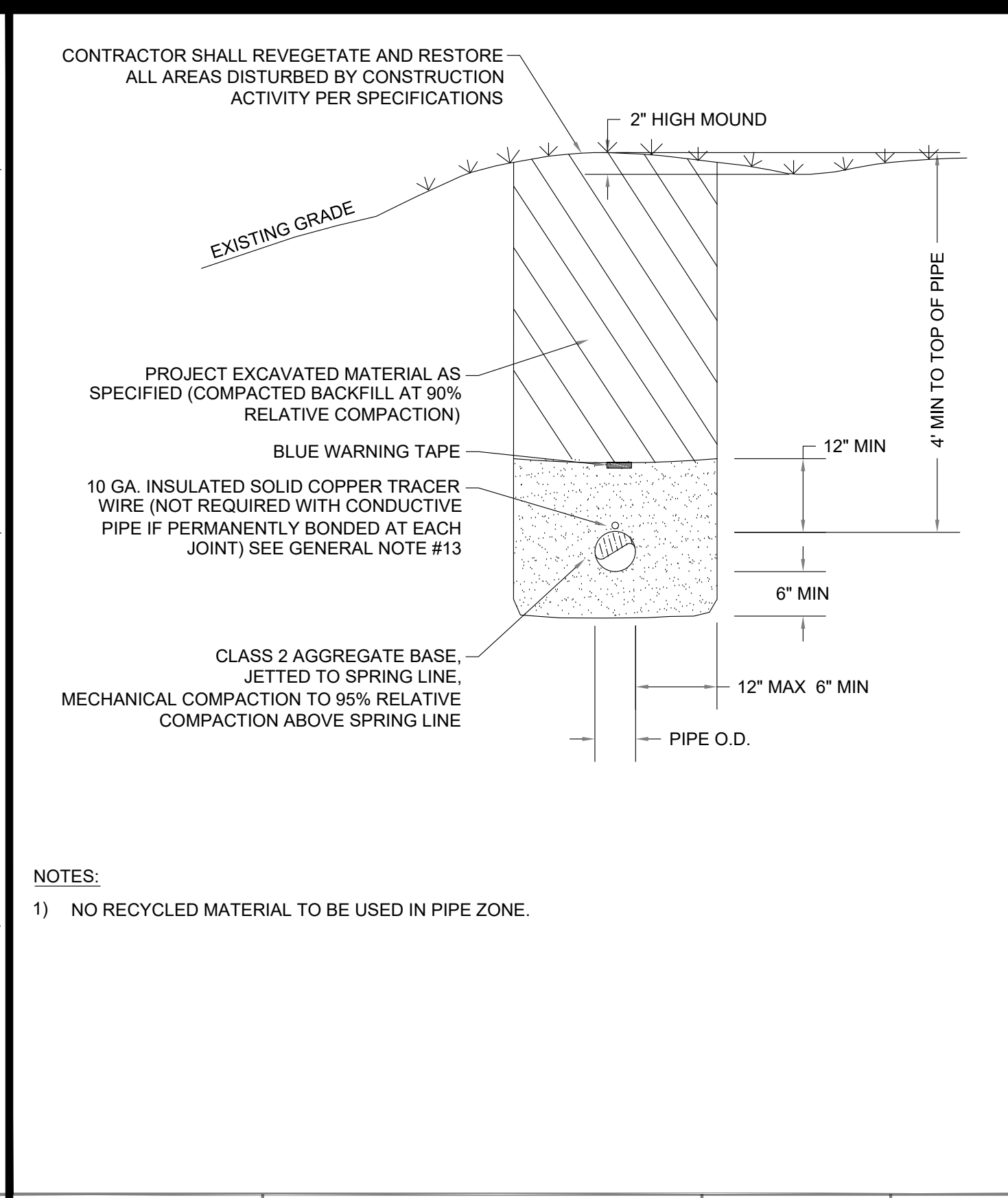


APPROVED BY: JULIE H. RYAN, DISTRICT ENGINEER  
P.E. NO. CE 50002

**WATER MAIN TRENCH WITHIN PAVED AREAS**  
STANDARD DETAIL WM01

DATE: 3/23/2023 SCALE: NTS

WM01

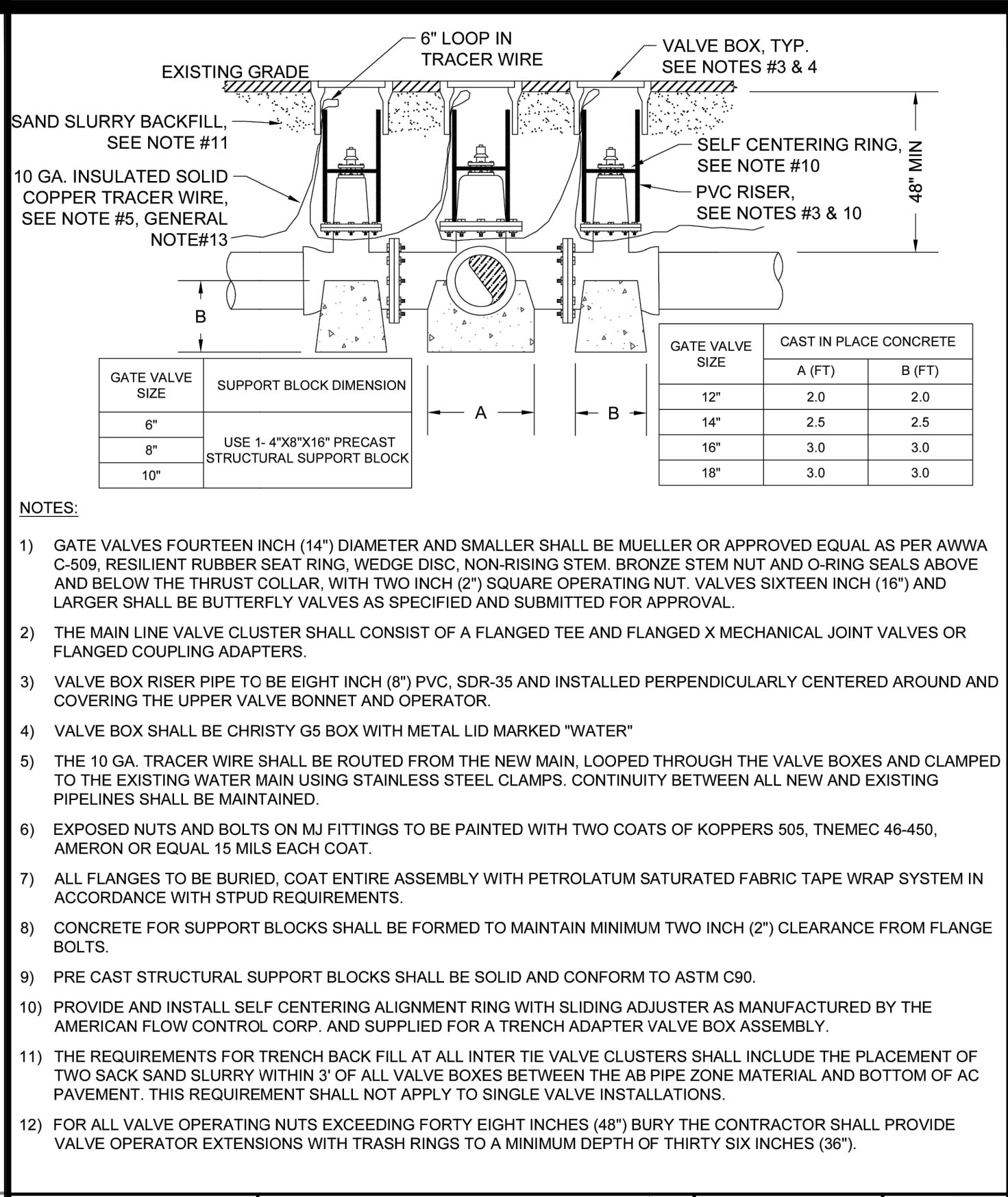


APPROVED BY: JULIE H. RYAN, DISTRICT ENGINEER  
P.E. NO. CE 50002

**WATER MAIN TRENCH OUTSIDE PAVED AREAS**  
STANDARD DETAIL WM02

DATE: 4/7/2022 SCALE: NTS

WM02

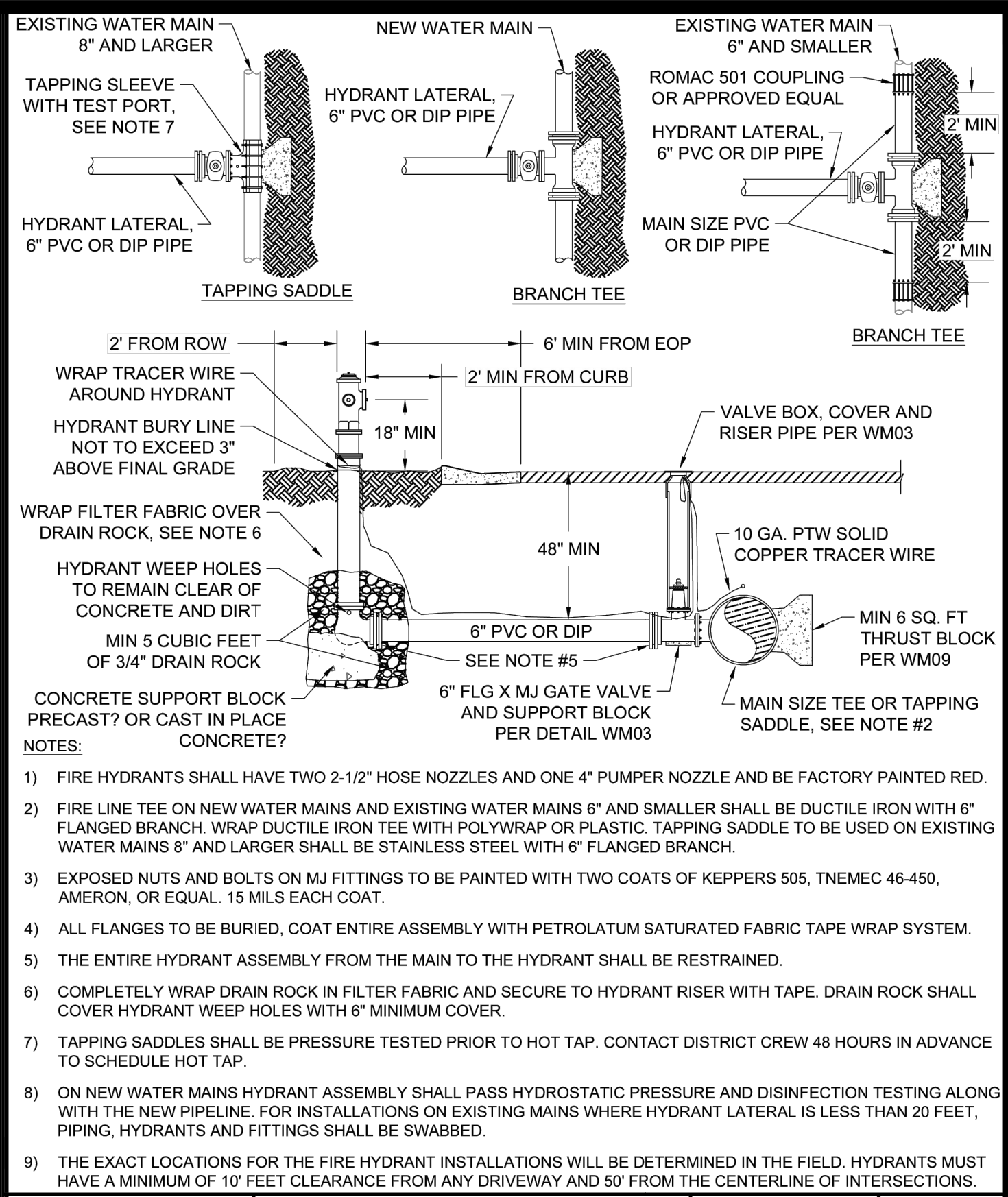


APPROVED BY: JULIE H. RYAN, DISTRICT ENGINEER  
P.E. NO. CE 50002

**WATER VALVE ASSEMBLY**  
STANDARD DETAIL WM03

DATE: 4/11/2022 SCALE: NTS

WM03

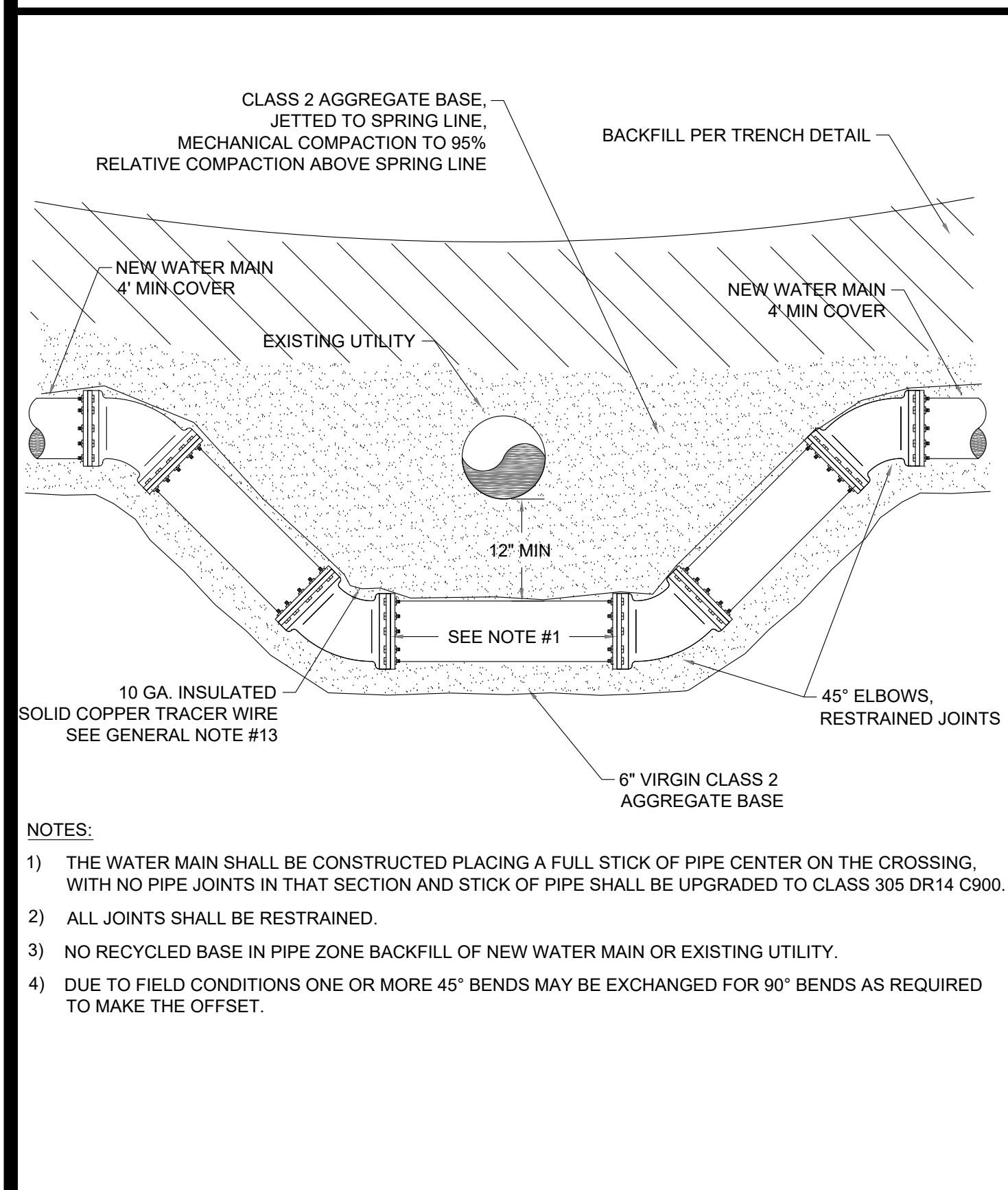


APPROVED BY: JULIE H. RYAN, DISTRICT ENGINEER  
P.E. NO. CE 50002

**FIRE HYDRANT**  
STANDARD DETAIL WM04

DATE: 5/23/2022 SCALE: NTS

WM04



APPROVED BY: JULIE H. RYAN, DISTRICT ENGINEER  
P.E. NO. CE 50002

**NEW WATER MAIN VERTICAL OFFSET**  
STANDARD DETAIL WM06

DATE: 7/27/2022 SCALE: NTS

WM06

**FITTING AND PIPE RESTRAINT LENGTH REQUIREMENTS**

TYPE OF FITTING	90° ELBOW	45° ELBOW	22.5° ELBOW	11.25° ELBOW	TEE BRANCH*	TEE W/ PLUG	REDUCER**	VALVE IN LINE	VALVE AT END	DEAD END
6" PVC	14'	6'	3'	2'	10**	14'	41'	42'	42'	42'
8" PVC	16'	7'	4'	2'	10**	16'	41'	42'	42'	42'
10" PVC	18'	8'	4'	2'	10**	18'	41'	42'	42'	42'
12" PVC	21'	9'	5'	2'	10**	21'	42'	42'	42'	42'
14" PVC	22'	9'	5'	3'	10**	22'	43'	42'	42'	42'
16" PVC	25'	10'	5'	3'	10**	25'	43'	42'	42'	42'
18" PVC	26'	11'	6'	3'	15'	26'	43'	42'	42'	42'
20" PVC	29'	12'	6'	3'	23'	29'	64'	117'	117'	117'
24" PVC	29'	12'	6'	3'	25'	29'	64'	90'	90'	90'
6" DIP	33'	14'	7'	4'	39'	33'	64'	133'	133'	133'
8" DIP	33'	14'	7'	4'	36'	33'	44'	101'	101'	101'
10" DIP	36'	15'	8'	4'	55'	36'	65'	150'	150'	150'
12" DIP	36'	15'	8'	4'	46'	36'	62'	112'	112'	112'
14" DIP	40'	17'	8'	4'	71'	40'	92'	167'	167'	167'
16" DIP	45'	19'	9'	4'	76'	45'	82'	144'	144'	144'
18" DIP	51'	21'	10'	4'	116'	51'	92'	214'	214'	214'

\* MINIMUM 10' RESTRAINED LENGTH ON EACH RUN ON BOTH SIDES OF BRANCH  
\*\* LENGTHS GIVEN ARE VALID FOR UP TO 4" INCREASE IN NOMINAL DIAMETER FROM SIZE SHOWN

NOTES:

- ALL MINIMUM RESTRAINT LENGTH CALCULATIONS BASED ON MINIMUM 10' PIPE LENGTHS. MINIMUM PIPE LENGTHS FOR DUCTILE IRON PIPE FITTINGS BASED ON POLYETHYLENE ENCASEMENT.
- NUTS AND BOLTS ON ALL MJ FITTINGS SHALL BE PAINTED WITH TWO COATS OF KOPPERS 505, TNEMEC 46-450, AMERON OR EQUAL, 15 MILS EACH COAT.
- ALL FLANGES TO BE BURIED, COAT ENTIRE ASSEMBLY WITH PETROLATUM SATURATED FABRIC TAPE TAPE WRAP SYSTEM IN ACCORDANCE WITH SPECIFICATIONS.
- CONCRETE THRUST BLOCKING MAY BE REQUIRED IN CONJUNCTION WITH MECHANICAL THRUST RESTRAINT SYSTEMS IF DETERMINED NECESSARY BY THE ENGINEER.
- VALVES PLACED IN A RUN OF PIPE OR AT A DEAD END TO BE RESTRAINED PER DEAD END RESTRAINT LENGTHS.
- ALL VALVE CLUSTERS (CROSS OR TEE) USE THE RESTRAINT LENGTHS FOR THE 90° ELBOW.

APPROVED BY: JULIE H. RYAN, DISTRICT ENGINEER  
P.E. NO. CE 50002

**RESTRAINT LENGTH SCHEDULE**  
STANDARD DETAIL WM08

DATE: 4/12/2022 SCALE: NTS

WM08

**THRUST BLOCK AREA REQUIRED - SQUARE FEET**

TYPE OF FITTING	90° ELBOW	45° ELBOW	22.5° ELBOW	11.25° ELBOW	TEE BRANCH	TEE W/ PLUG	CROSS W/ PLUG	CROSS W/ PLUGS
6"	4	4	2	2	4	4	4	4
8"	10	6	3	3	10	10	10	10
10"	12	8	4	4	15	15	15	15
12"	16	10	6	6	20	20	20	20
14"	21	12	6	6	22	21	22	21
16"	27	15	8	8	22	27	27	27
18"	45	25	13	13	32	45	45	45
24"	65	35	18	18	45	65	65	65

SECTION

BEARING AREA

12" MIN

NOTES:

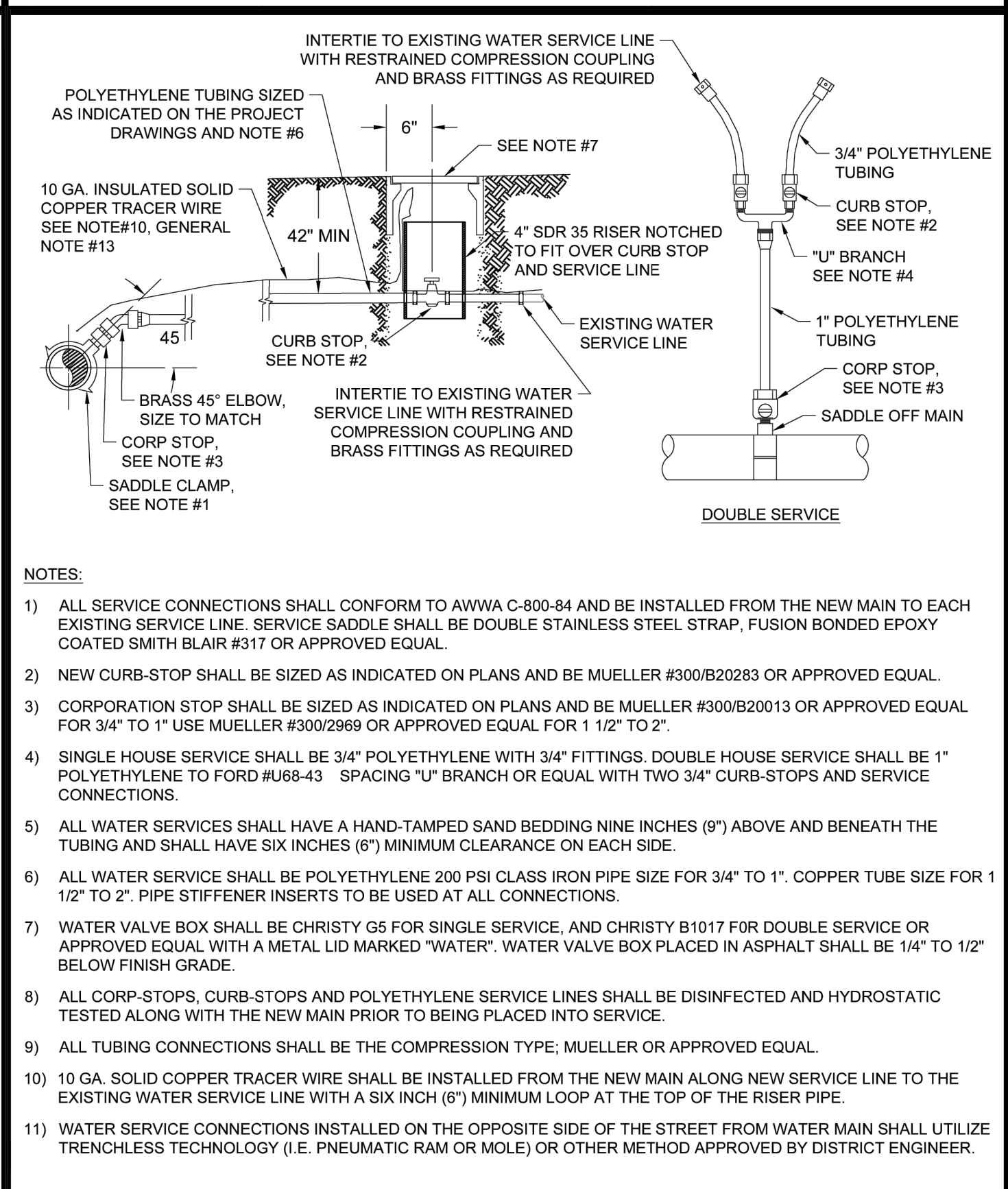
- JOINTS, FLANGE BOLTS AND FACE OF PLUGS TO BE KEPT CLEAR OF CONCRETE.
- BLOCKS MUST BE POURED AGAINST UNDISTURBED SOIL.
- THRUST BLOCKS TO BE CONSTRUCTED OF CLASS 423-C-2500 OR BETTER P.C.C.
- THRUST BLOCKS AREA IS BASED ON TEST PRESSURE OF 150 PSI AND A HORIZONTAL SOIL BEARING STRENGTH OF 1500 PSI.
- NUTS AND BOLTS ON ALL MJ FITTINGS SHALL BE PAINTED WITH TWO COATS OF KOPPERS 505, TNEMEC 46-450, AMERON OR EQUAL, 15 MILS EACH COAT.

APPROVED BY: JULIE H. RYAN, DISTRICT ENGINEER  
P.E. NO. CE 50002

**TYPICAL THRUST BLOCK**  
STANDARD DETAIL WM09

DATE: 4/12/2022 SCALE: NTS

WM09



APPROVED BY: JULIE H. RYAN, DISTRICT ENGINEER  
P.E. NO. CE 50002

**WATER SERVICE**  
STANDARD DETAIL WS01

DATE: 4/7/2022 SCALE: NTS

WS01

SOUTH TAHOE PUBLIC UTILITY DISTRICT

REGISTERED PROFESSIONAL ENGINEER  
ADRIAN COMBES  
No. 73243  
Exp. 12/31/24  
CIVIL  
STATE OF CALIFORNIA

Sewer: 1950 Water: A PUBLIC AGENCY  
1275 Meadous Crest Drive South Lake Tahoe, California 96150  
Phone (530) 544-6474 Fax (530) 544-4319  
WWW.STPD.US

2024 APACHE WATERLINE REPLACEMENT PROJECT DETAILS

DATE: JAN 2024

SCALE: AS SHOWN

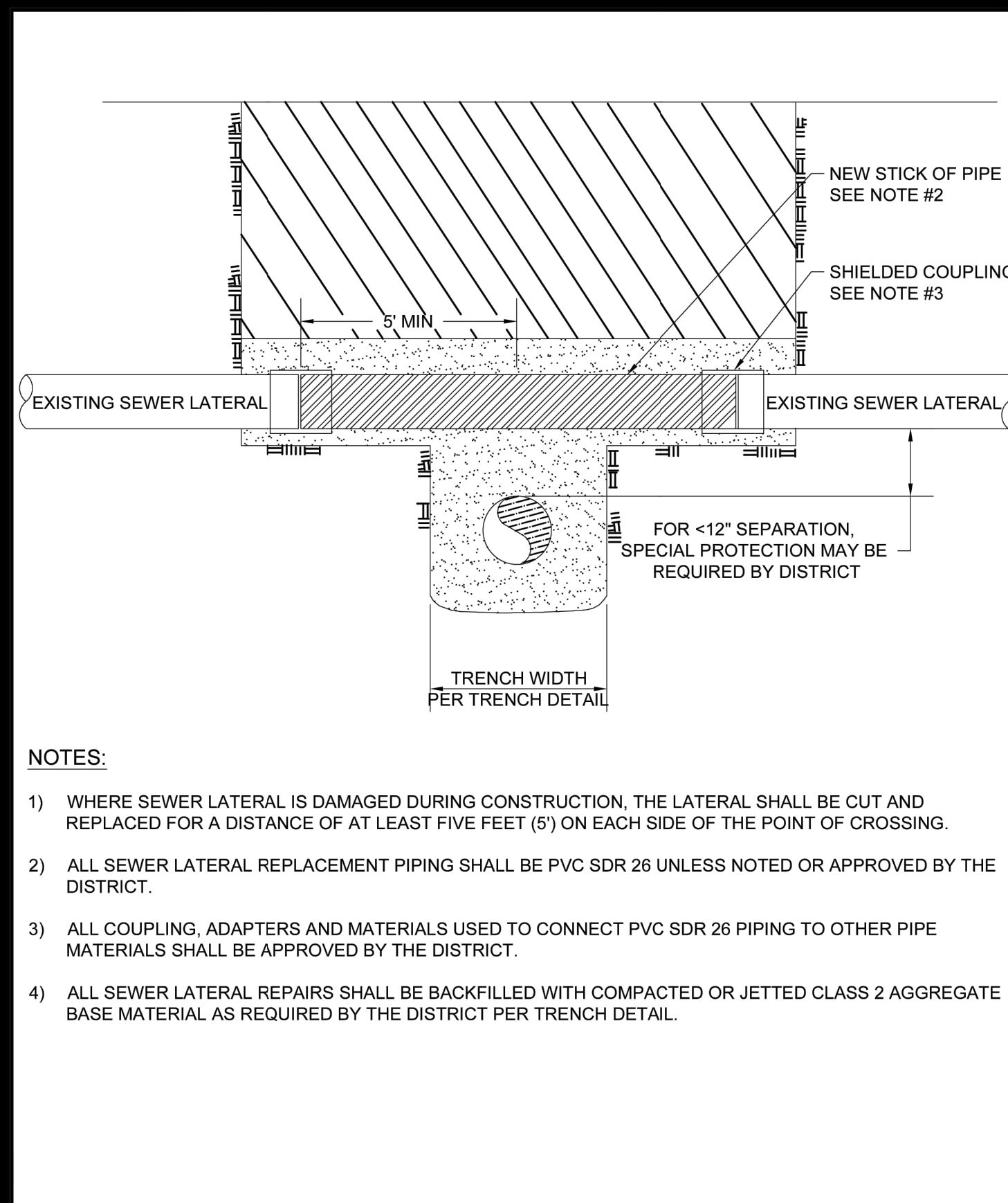
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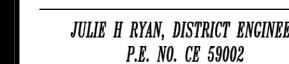
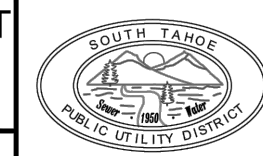
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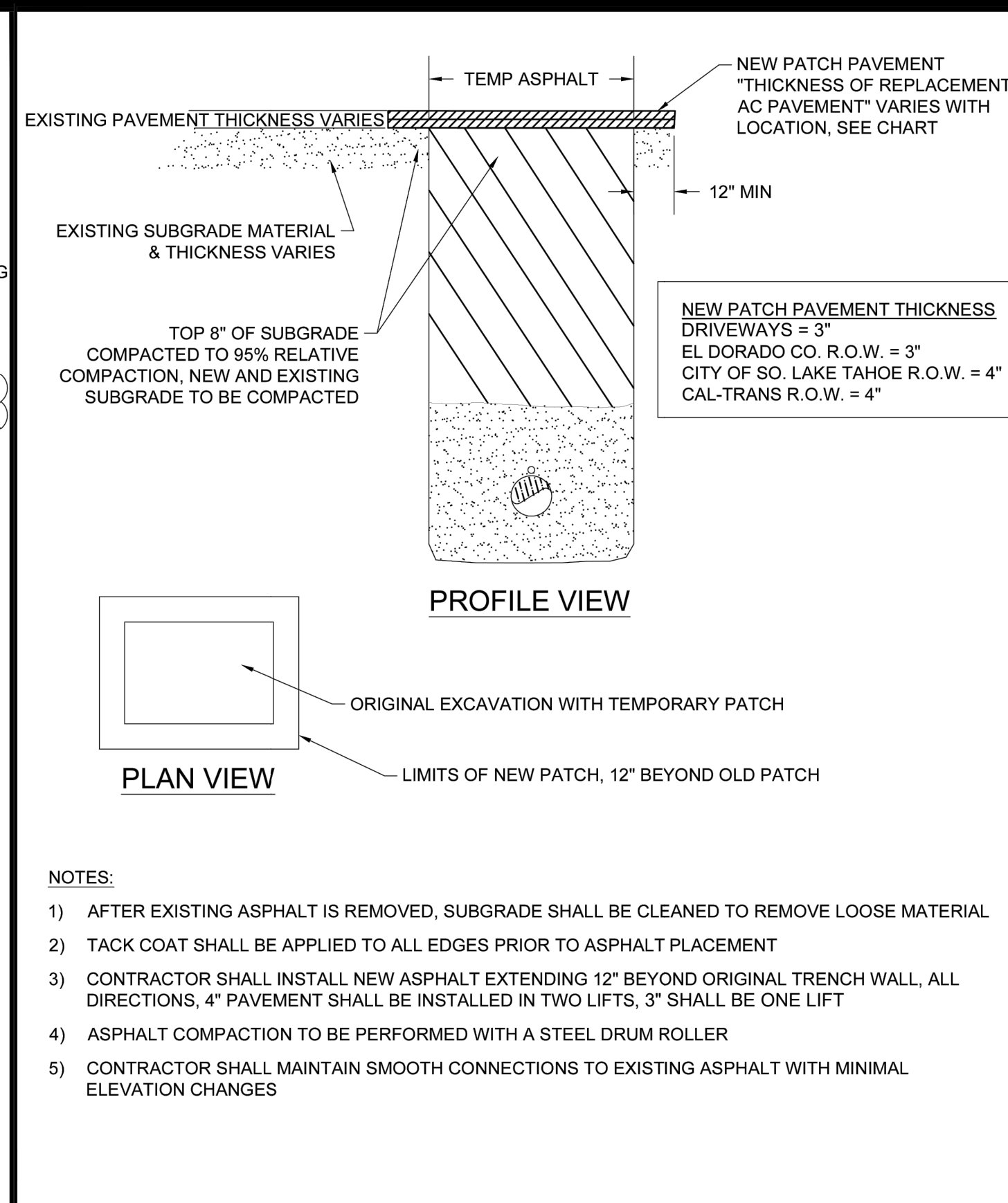
W7  
40 OF 43 SHEETS





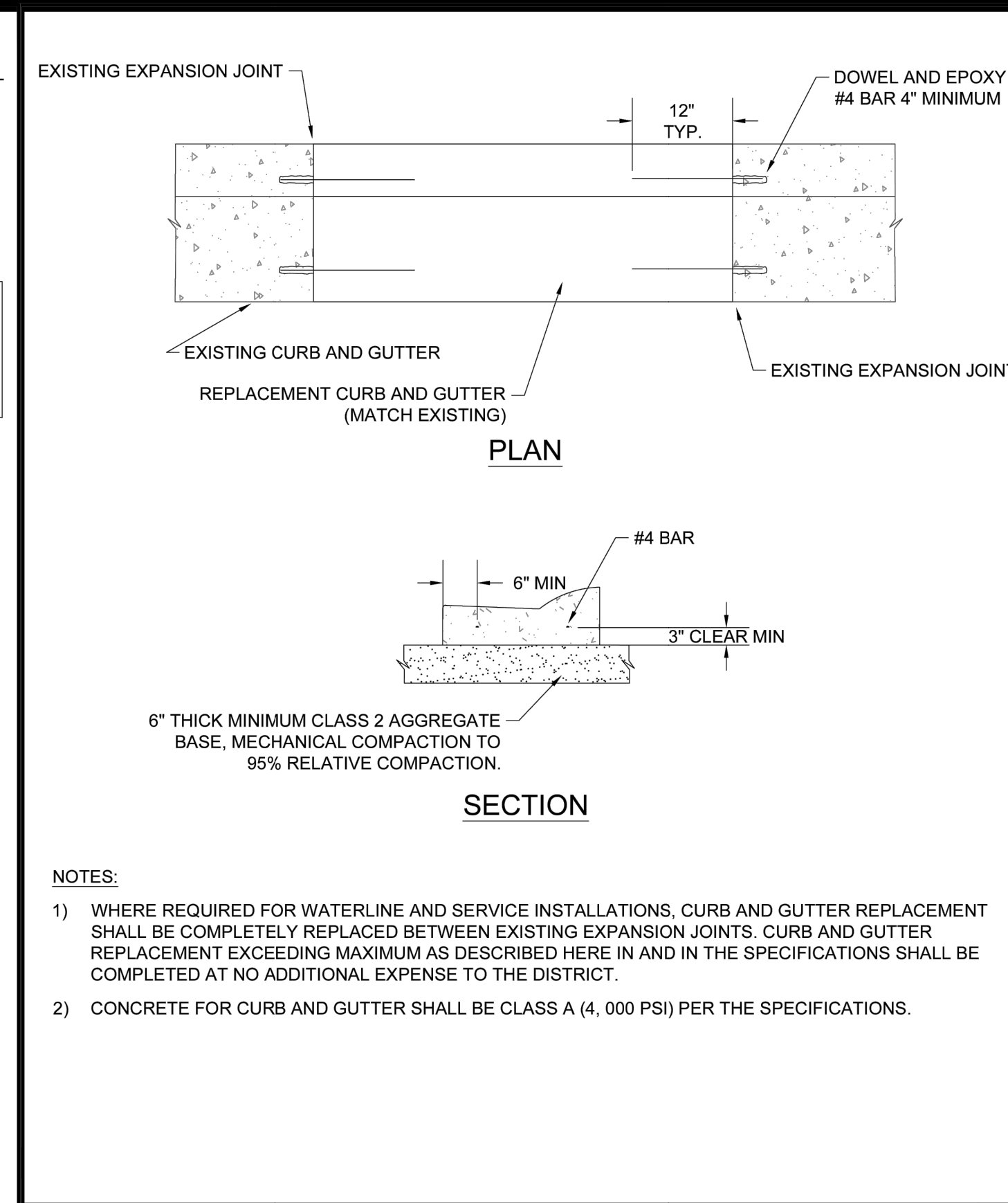
- NOTES:**
- 1) WHERE SEWER LATERAL IS DAMAGED DURING CONSTRUCTION, THE LATERAL SHALL BE CUT AND REPLACED FOR A DISTANCE OF AT LEAST FIVE FEET (5') ON EACH SIDE OF THE POINT OF CROSSING.
  - 2) ALL SEWER LATERAL REPLACEMENT PIPING SHALL BE PVC SDR 26 UNLESS NOTED OR APPROVED BY THE DISTRICT.
  - 3) ALL COUPLING, ADAPTERS AND MATERIALS USED TO CONNECT PVC SDR 26 PIPING TO OTHER PIPE MATERIALS SHALL BE APPROVED BY THE DISTRICT.
  - 4) ALL SEWER LATERAL REPAIRS SHALL BE BACKFILLED WITH COMPACTED OR JETTED CLASS 2 AGGREGATE BASE MATERIAL AS REQUIRED BY THE DISTRICT PER TRENCH DETAIL.

APPROVED BY:  JULIE H. RYAN, DISTRICT ENGINEER P.E. NO. CE 59062	SEWER LATERAL REPLACEMENT AT PIPE TRENCH STANDARD DETAIL SS04 DATE: 4/7/2022 SCALE: NTS		SS04
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- NOTES:**
- 1) AFTER EXISTING ASPHALT IS REMOVED, SUBGRADE SHALL BE CLEANED TO REMOVE LOOSE MATERIAL
  - 2) TACK COAT SHALL BE APPLIED TO ALL EDGES PRIOR TO ASPHALT PLACEMENT
  - 3) CONTRACTOR SHALL INSTALL NEW ASPHALT EXTENDING 12" BEYOND ORIGINAL TRENCH WALL, ALL DIRECTIONS, 4" PAVEMENT SHALL BE INSTALLED IN TWO LIFTS, 3" SHALL BE ONE LIFT
  - 4) ASPHALT COMPACTION TO BE PERFORMED WITH A STEEL DRUM ROLLER
  - 5) CONTRACTOR SHALL MAINTAIN SMOOTH CONNECTIONS TO EXISTING ASPHALT WITH MINIMAL ELEVATION CHANGES

APPROVED BY:  JULIE H. RYAN, DISTRICT ENGINEER P.E. NO. CE 59062	DRIVEWAY AND MISCELLANEOUS PAVEMENT SECTION STANDARD DETAIL C01 DATE: 4/20/2022 SCALE: NTS		C01
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- NOTES:**
- 1) WHERE REQUIRED FOR WATERLINE AND SERVICE INSTALLATIONS, CURB AND GUTTER REPLACEMENT SHALL BE COMPLETELY REPLACED BETWEEN EXISTING EXPANSION JOINTS. CURB AND GUTTER REPLACEMENT EXCEEDING MAXIMUM AS DESCRIBED HERE IN AND IN THE SPECIFICATIONS SHALL BE COMPLETED AT NO ADDITIONAL EXPENSE TO THE DISTRICT.
  - 2) CONCRETE FOR CURB AND GUTTER SHALL BE CLASS A (4,000 PSI) PER THE SPECIFICATIONS.

APPROVED BY:  JULIE H. RYAN, DISTRICT ENGINEER P.E. NO. CE 59062	CURB & GUTTER SECTION REPLACEMENT STANDARD DETAIL C04 DATE: 4/20/2022 SCALE: NTS		C04
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**NOT USED**

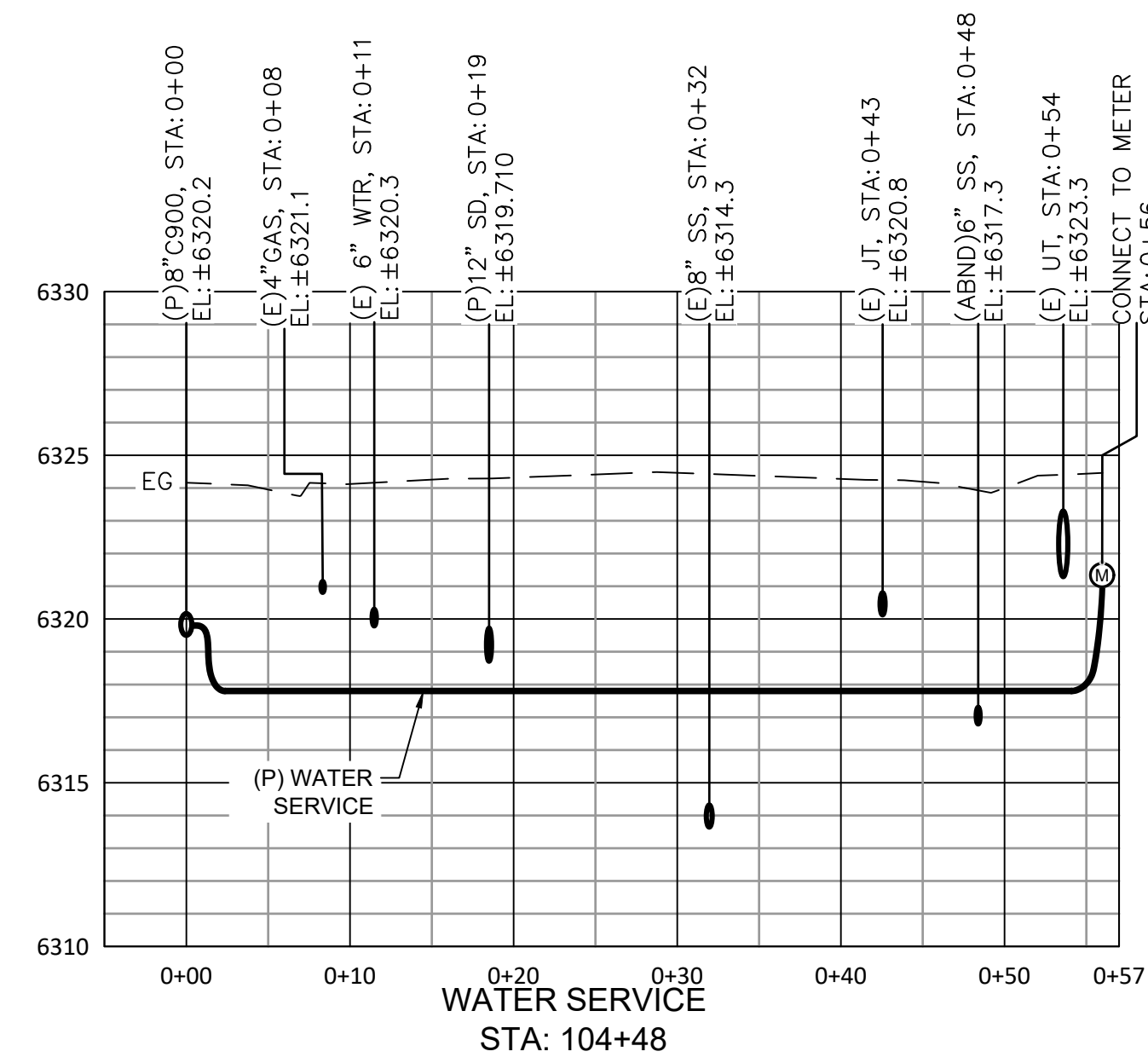
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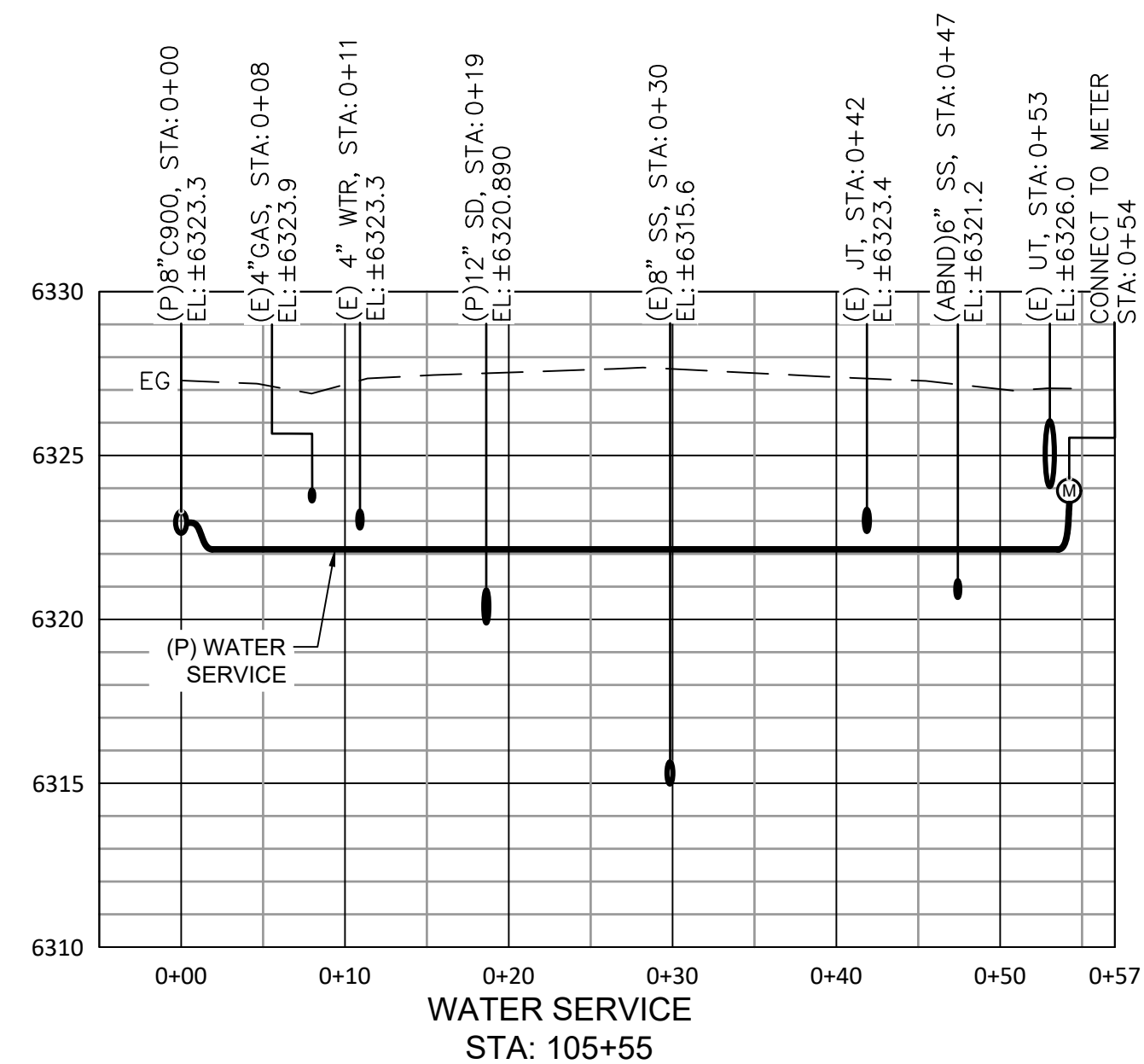
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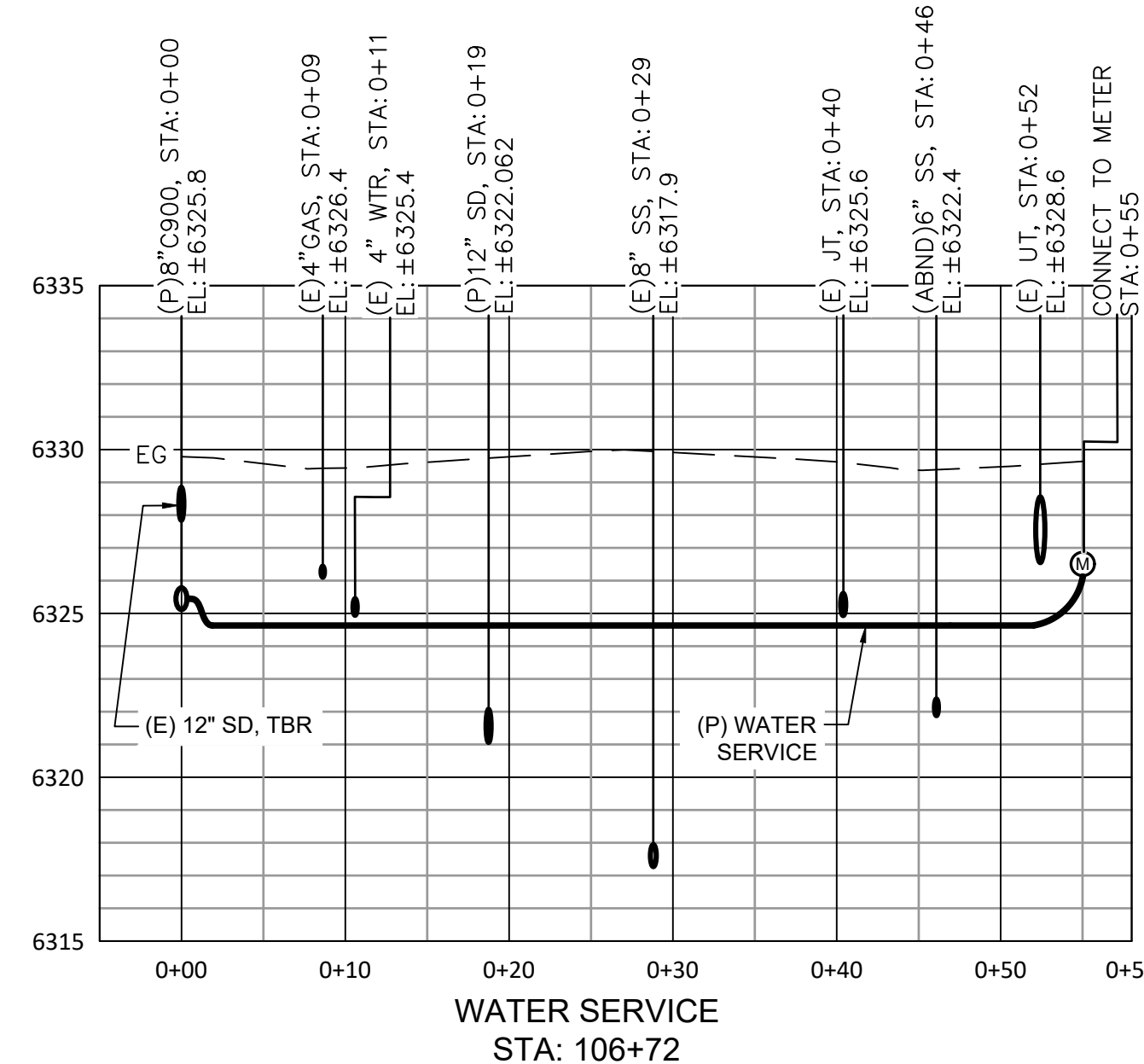
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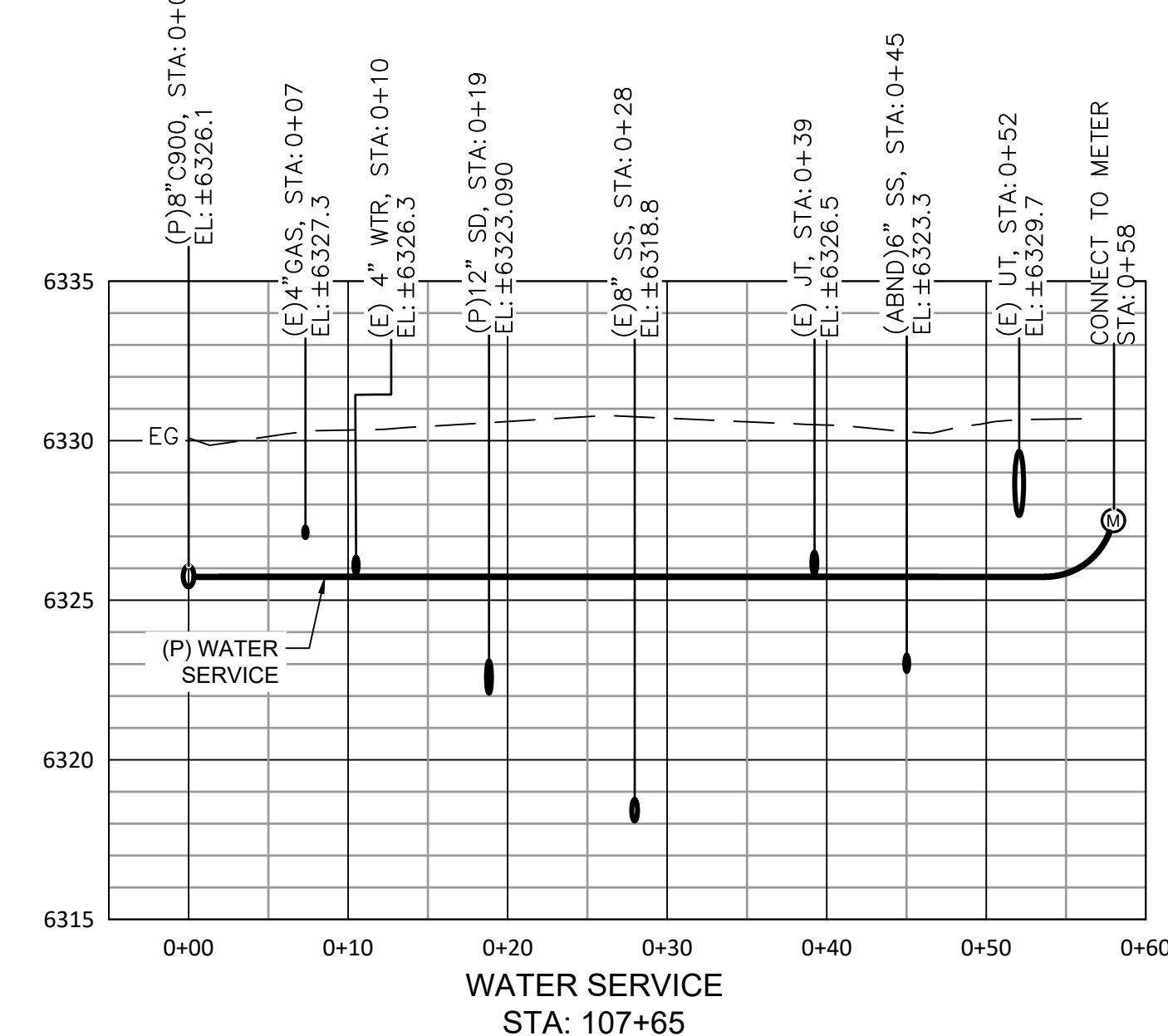
WATER SERVICE  
STA: 104+48



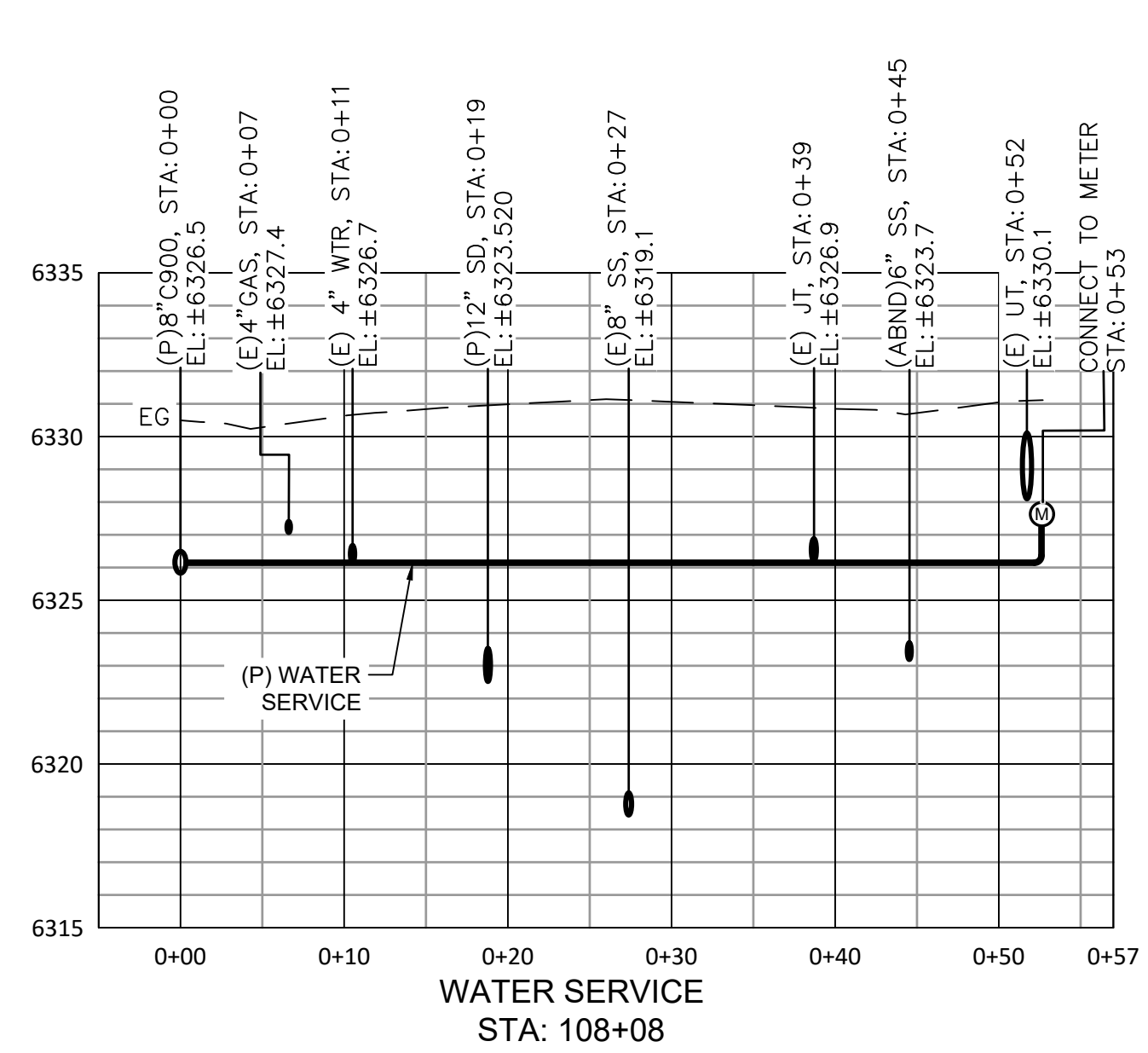
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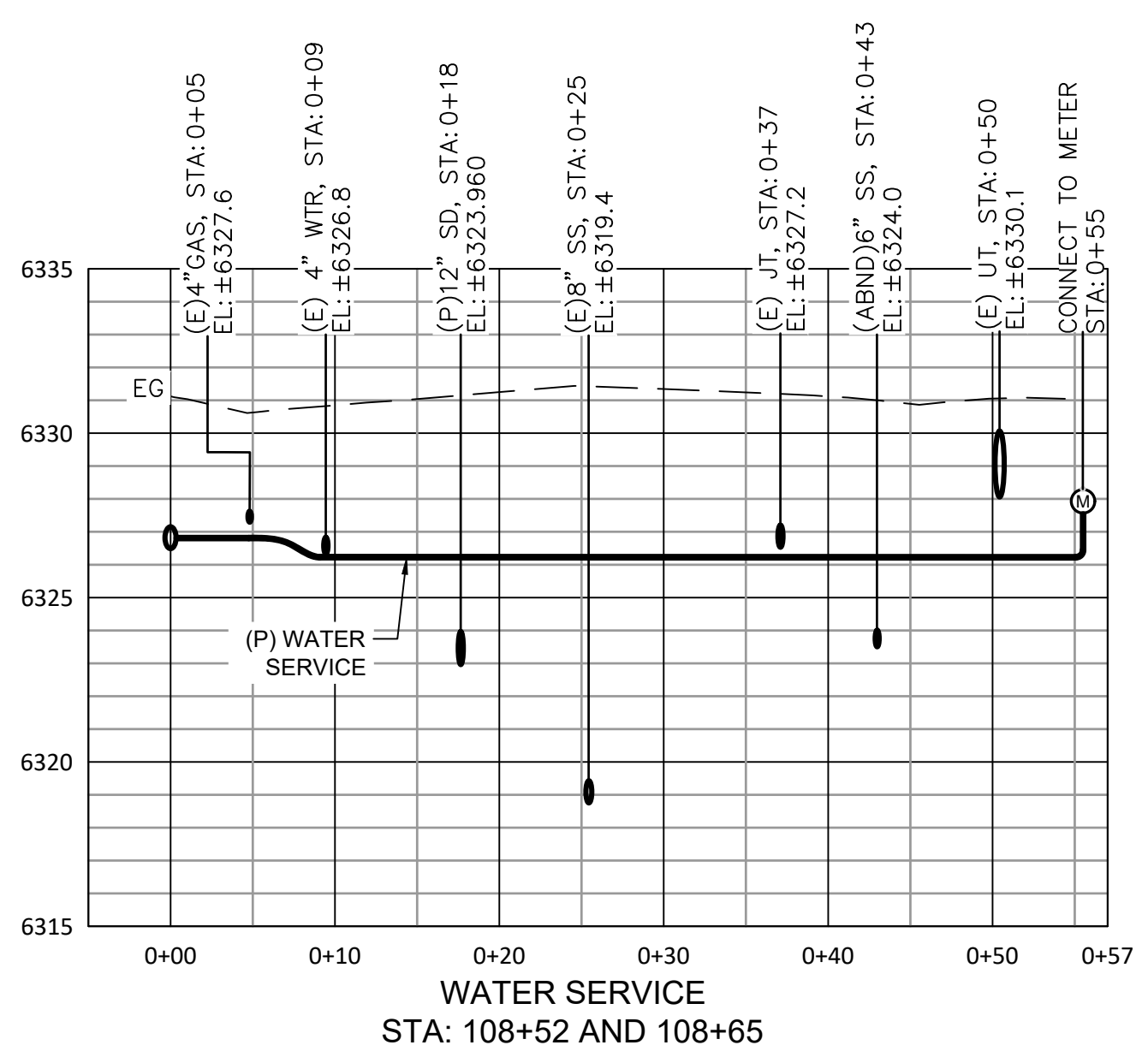
WATER SERVICE  
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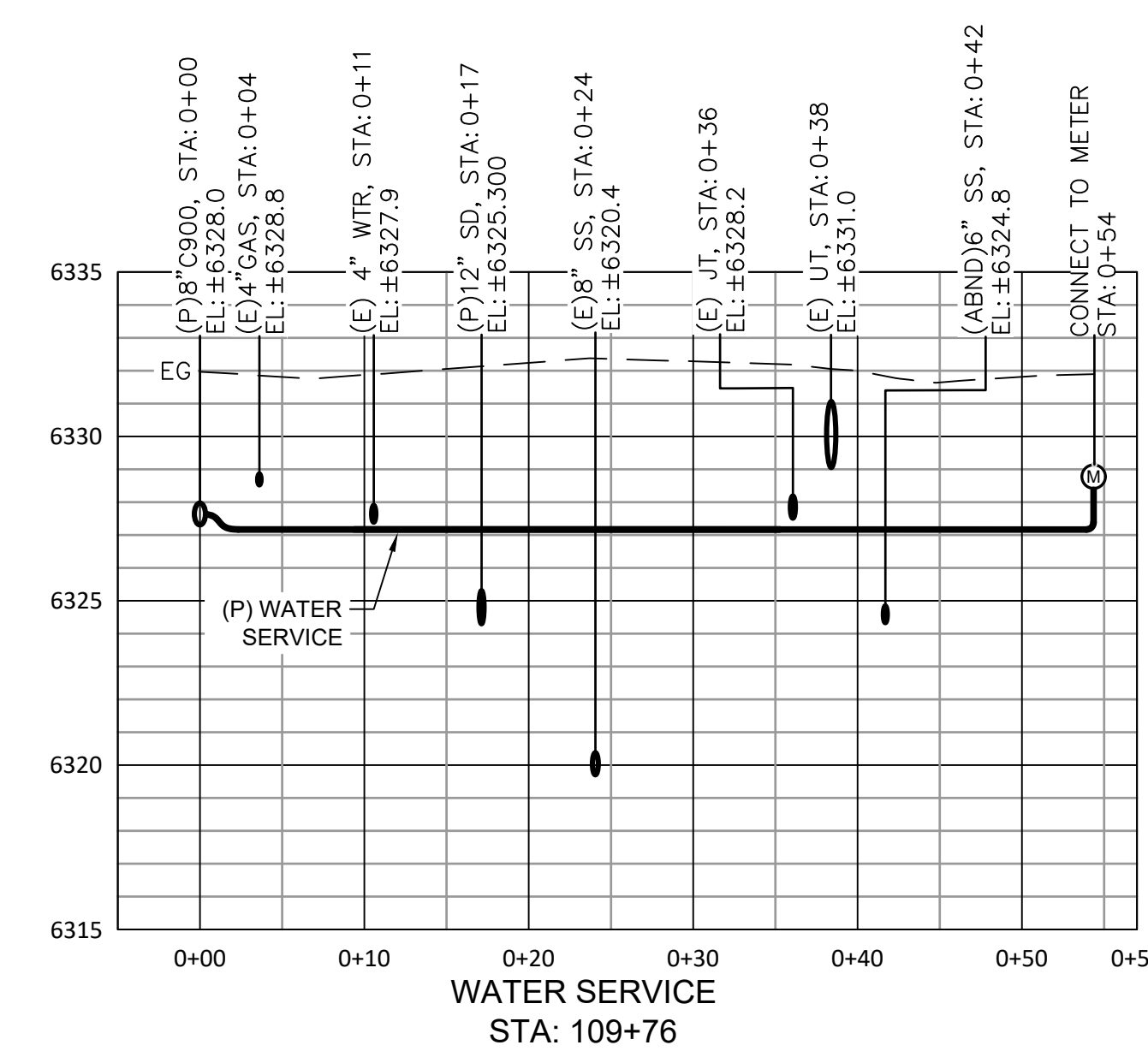
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STA: 107+65



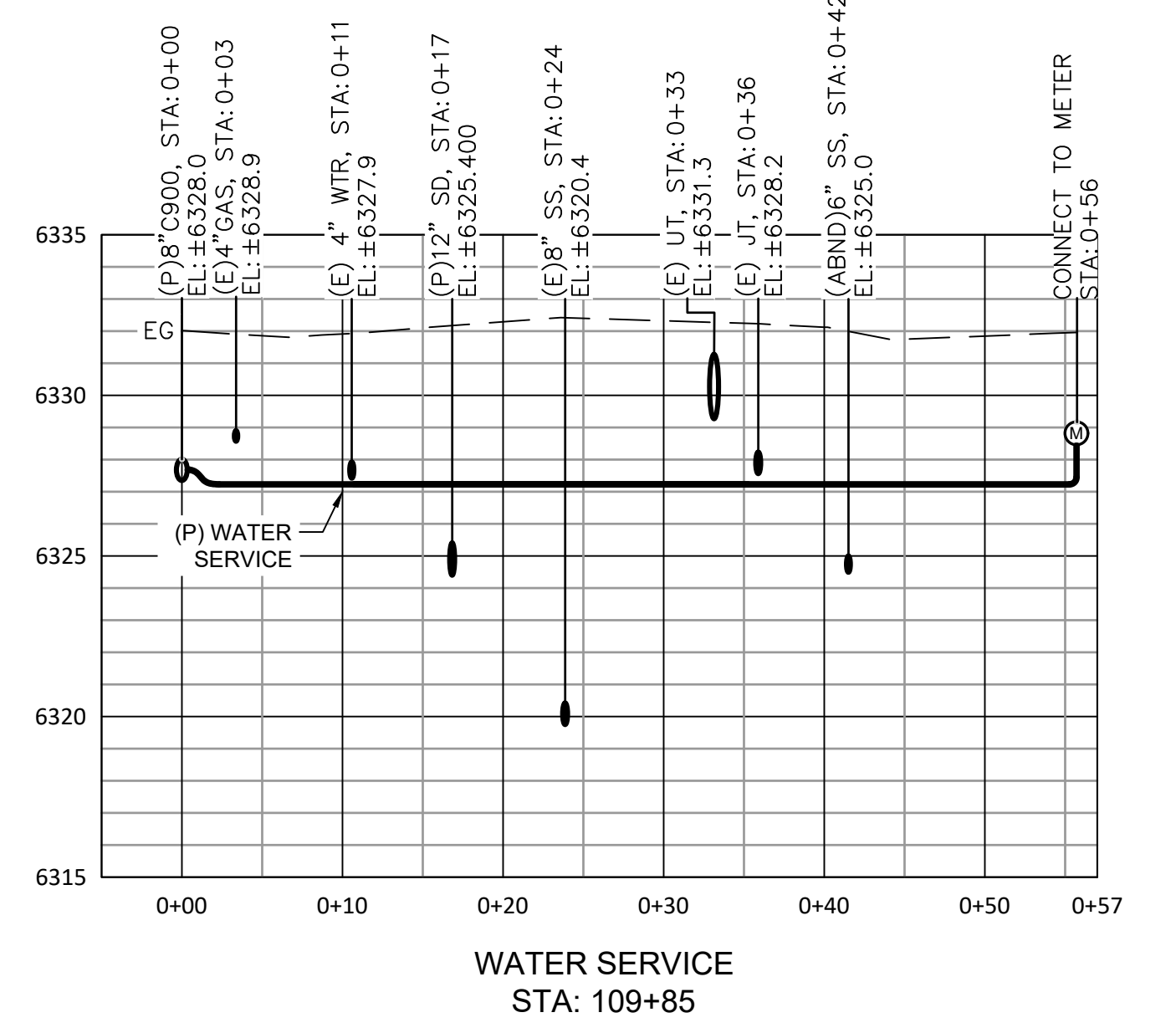
WATER SERVICE  
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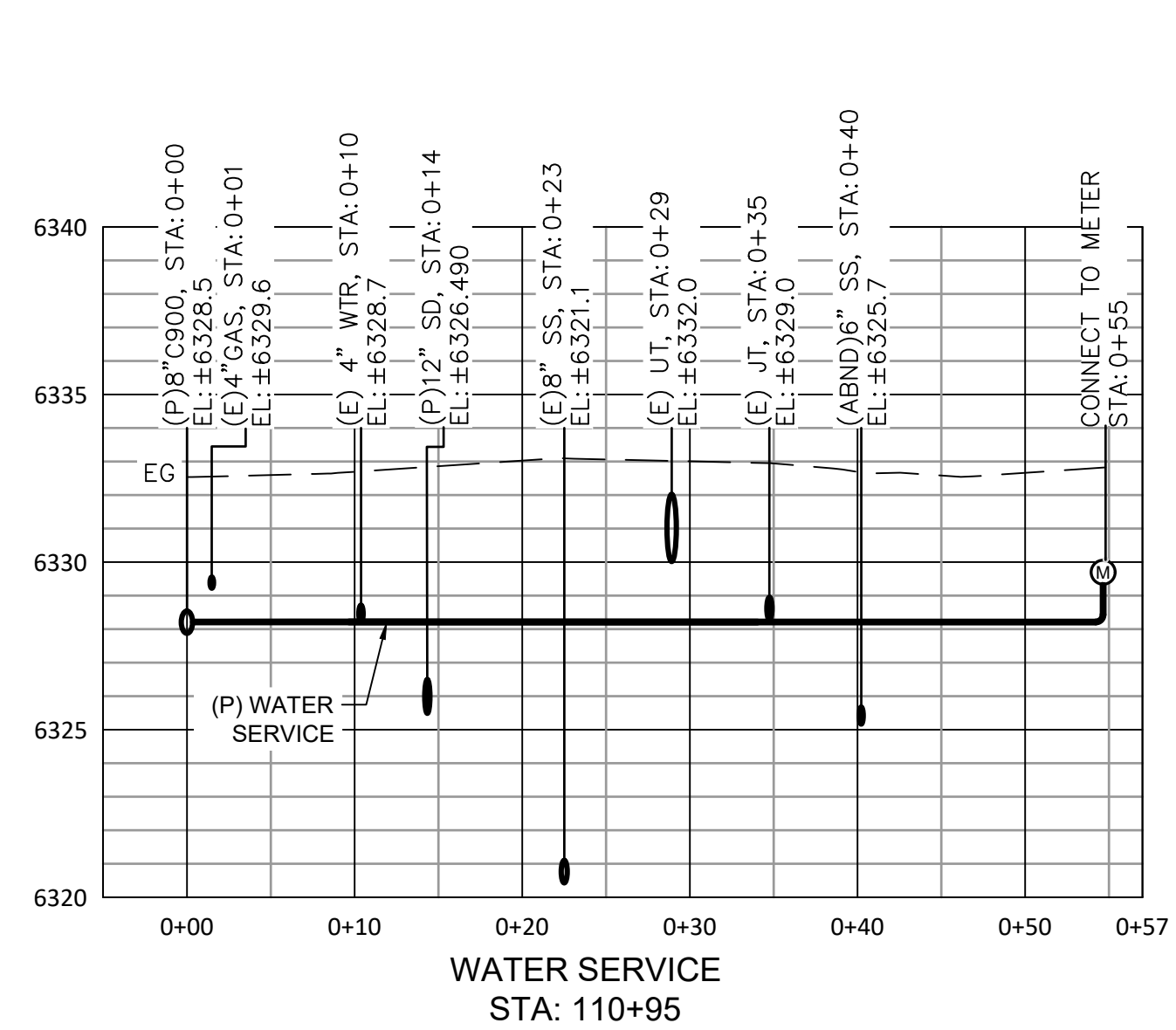
WATER SERVICE  
STA: 108+52 AND 108+65



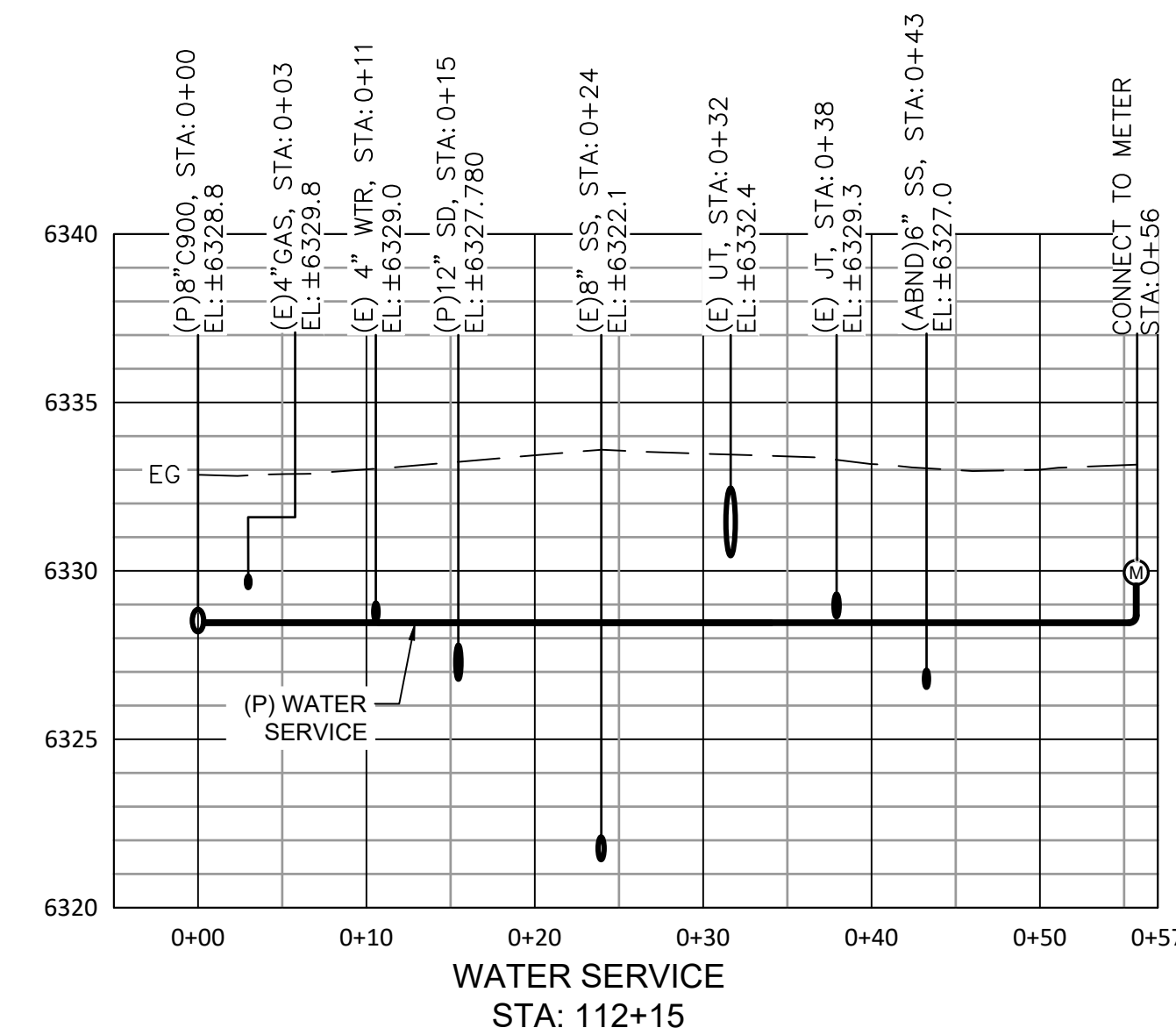
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STA: 109+76



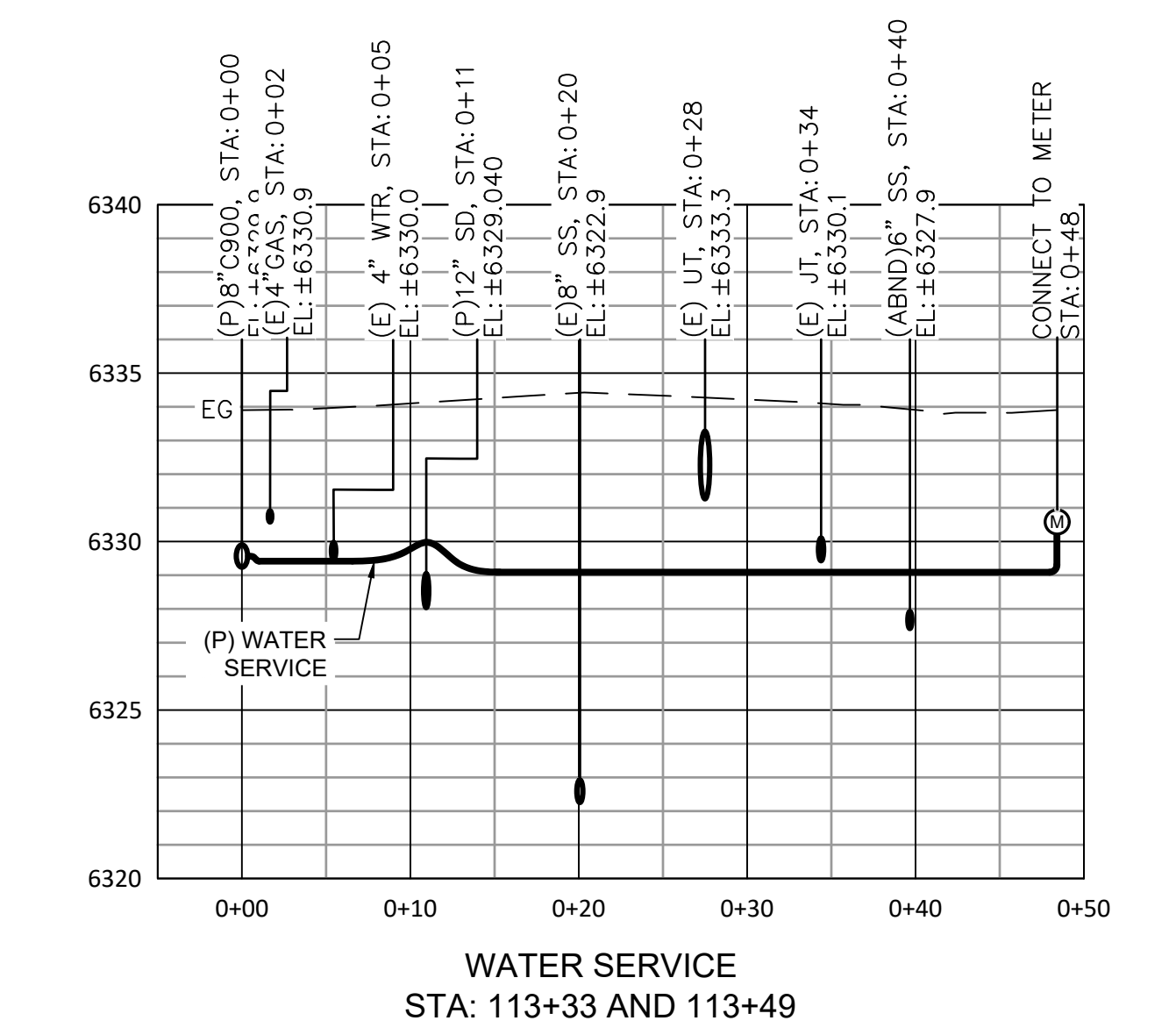
WATER SERVICE  
STA: 109+85



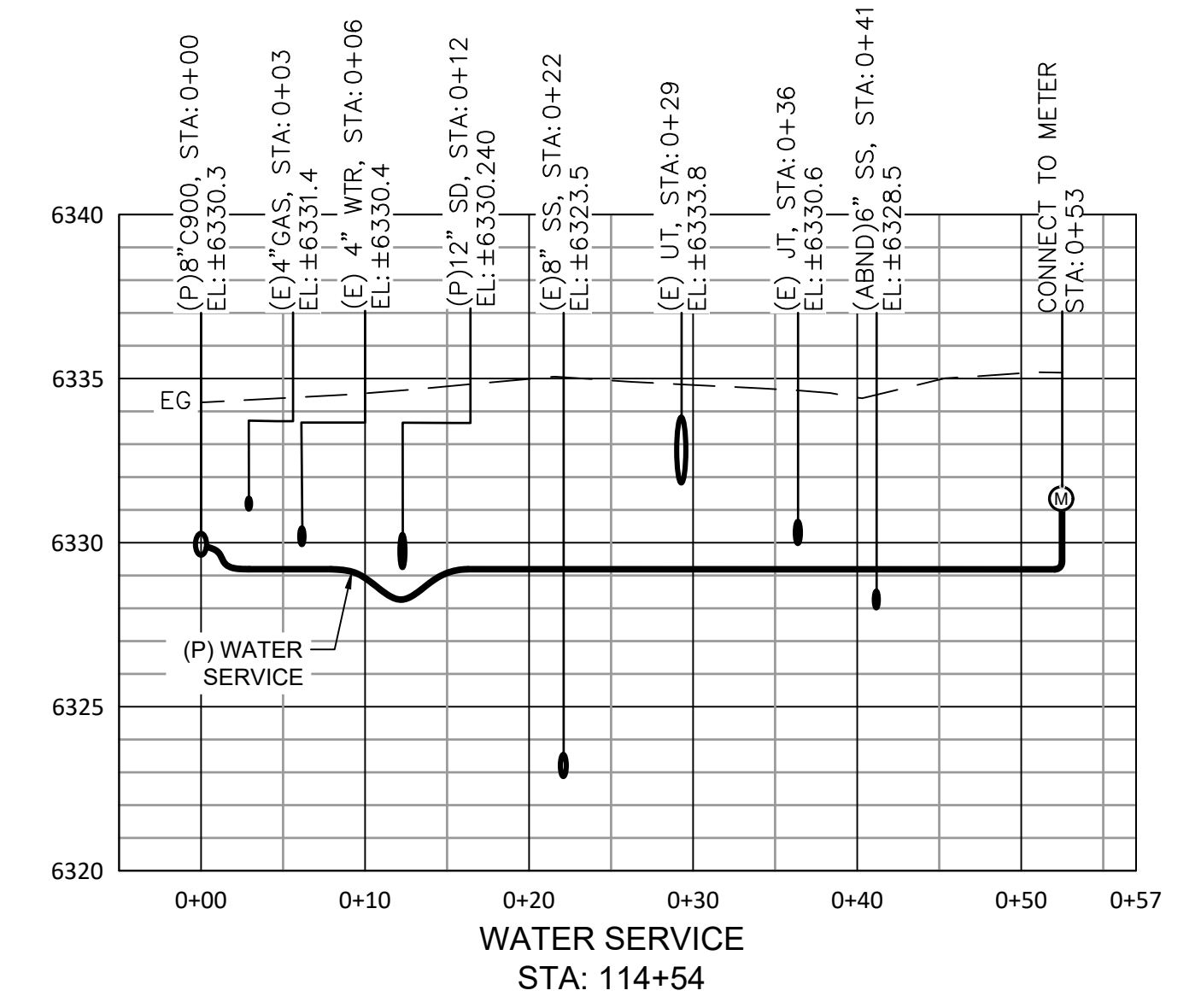
WATER SERVICE  
STA: 110+95



WATER SERVICE  
STA: 112+15



WATER SERVICE  
STA: 113+33 AND 113+49

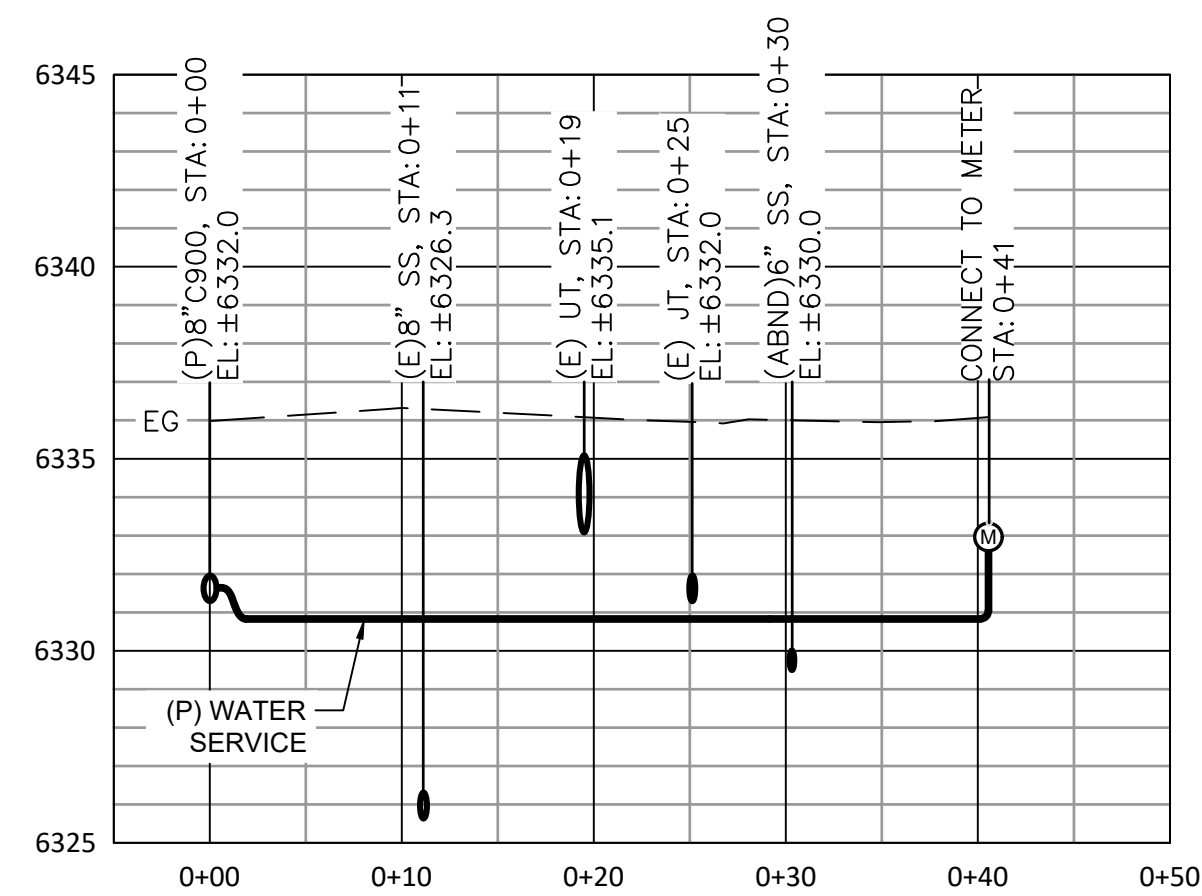


WATER SERVICE  
STA: 114+54

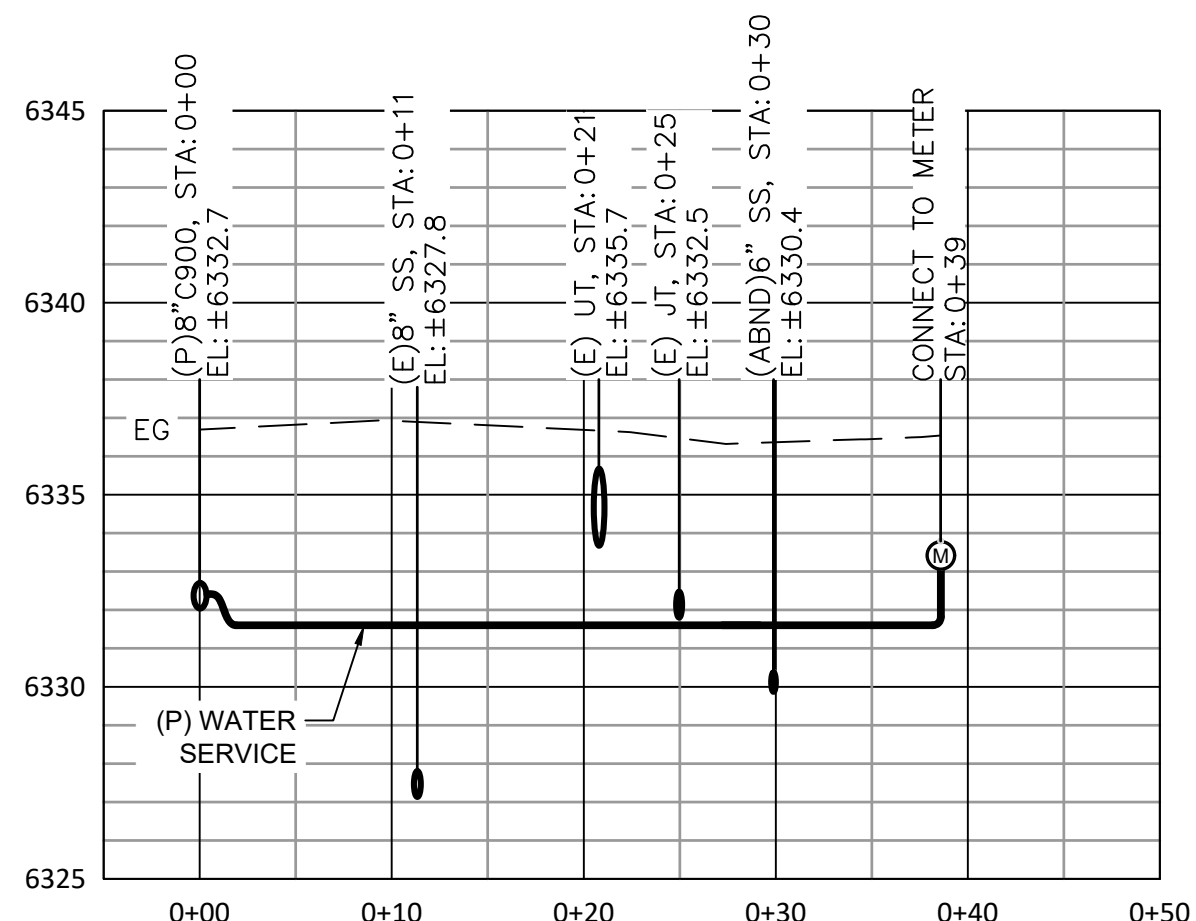
2024 APACHE WATERLINE  
 REPLACEMENT PROJECT  
 WATER SERVICE PROFILES



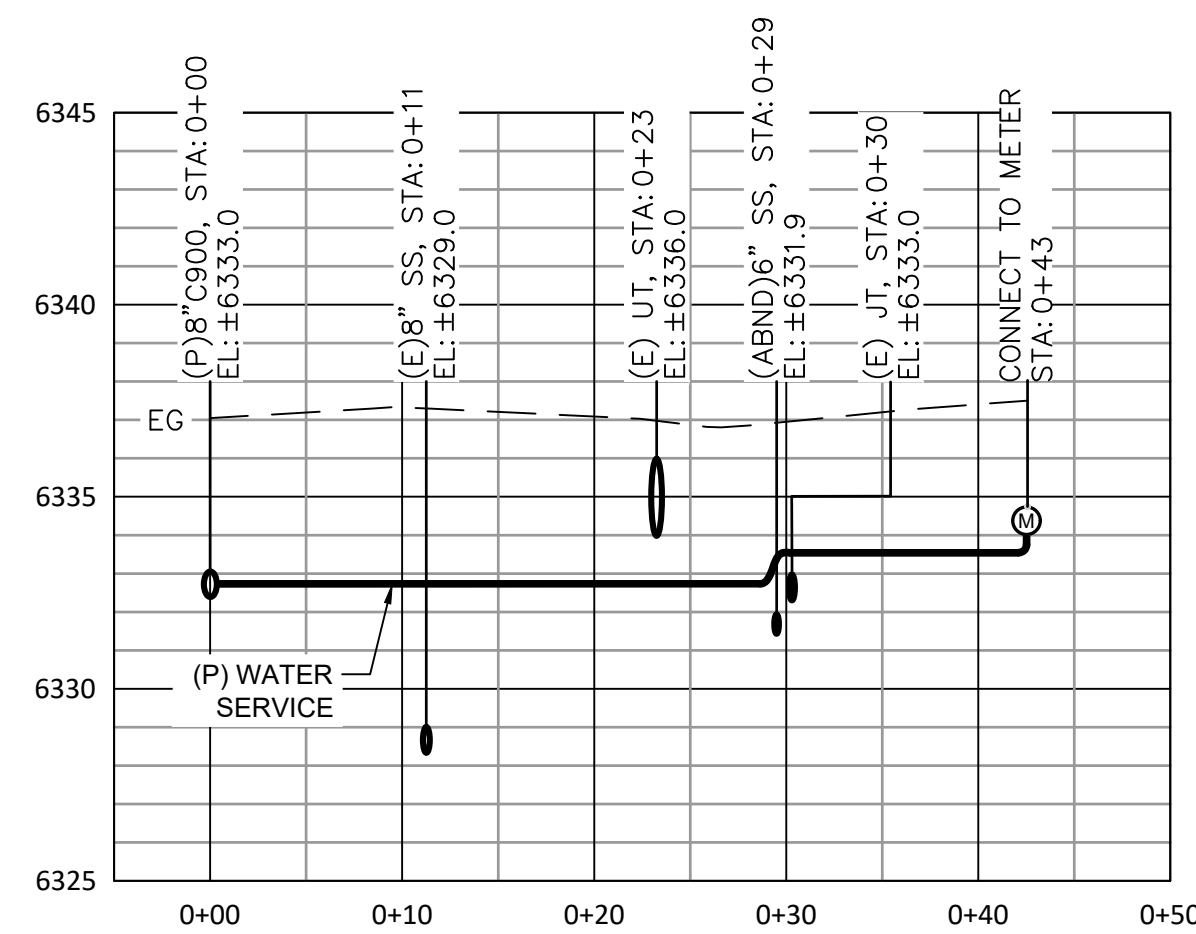
DATE: JAN 2024  
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 DRAWN: TCJ  
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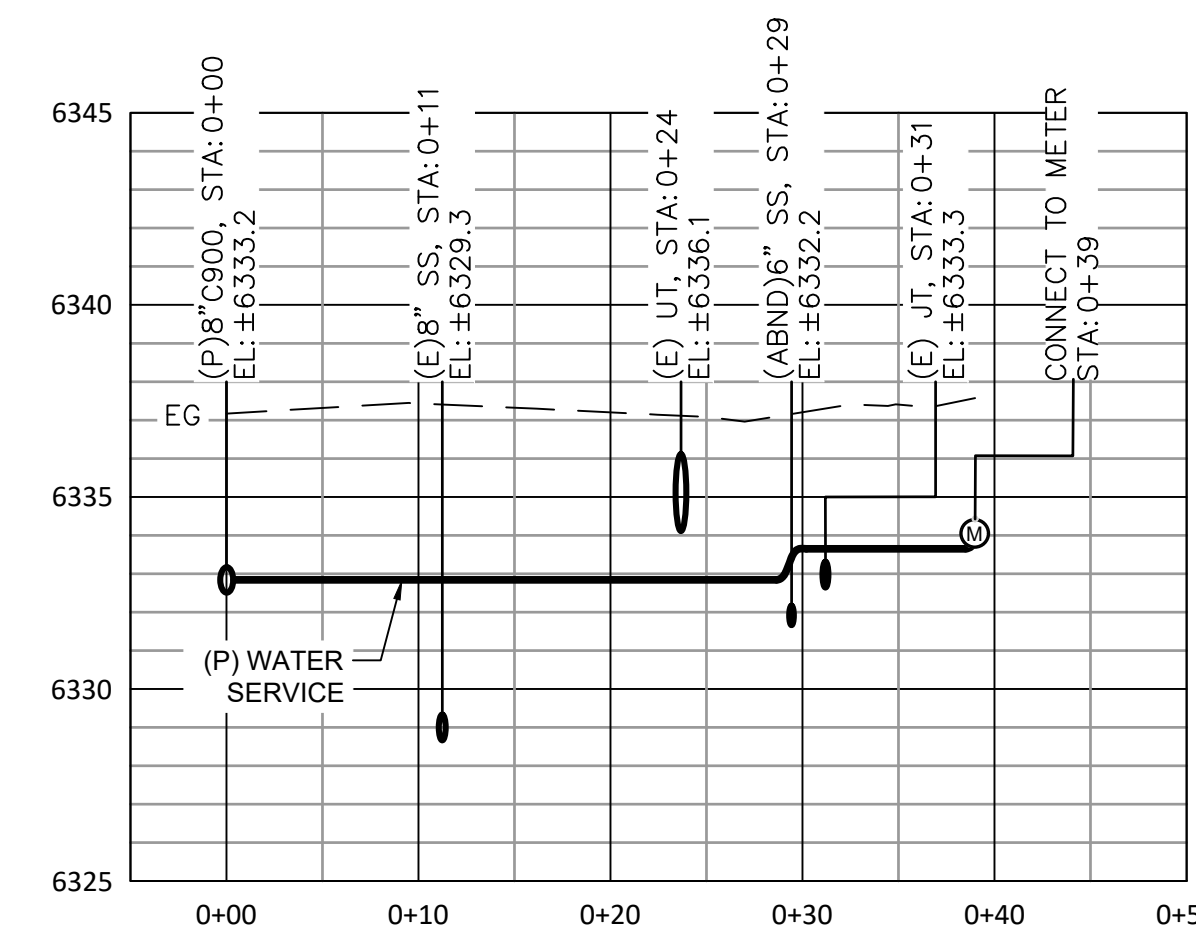
WATER SERVICE  
STA: 116+72 AND 16+90



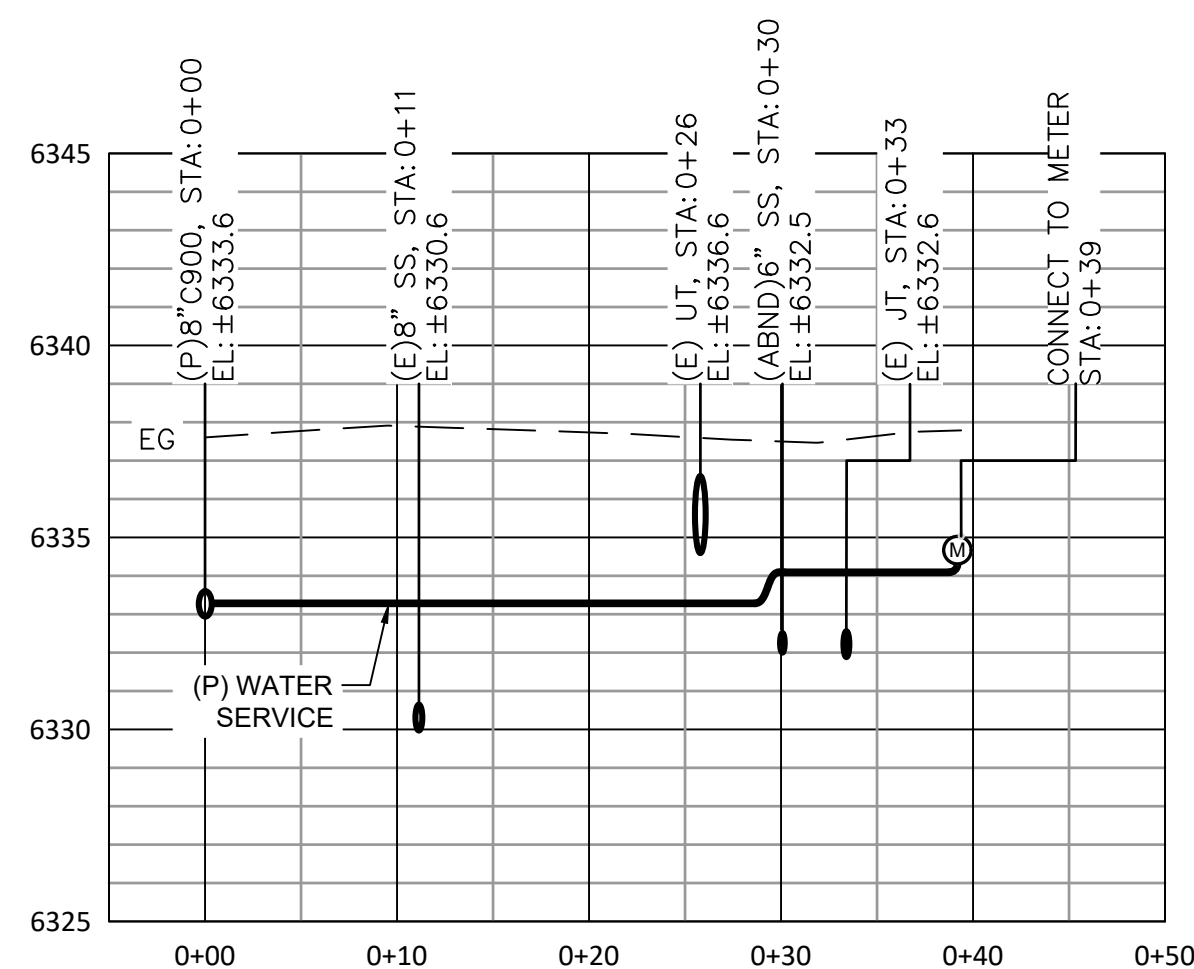
WATER SERVICE  
STA: 118+01 AND 118+02  
AND 118+14



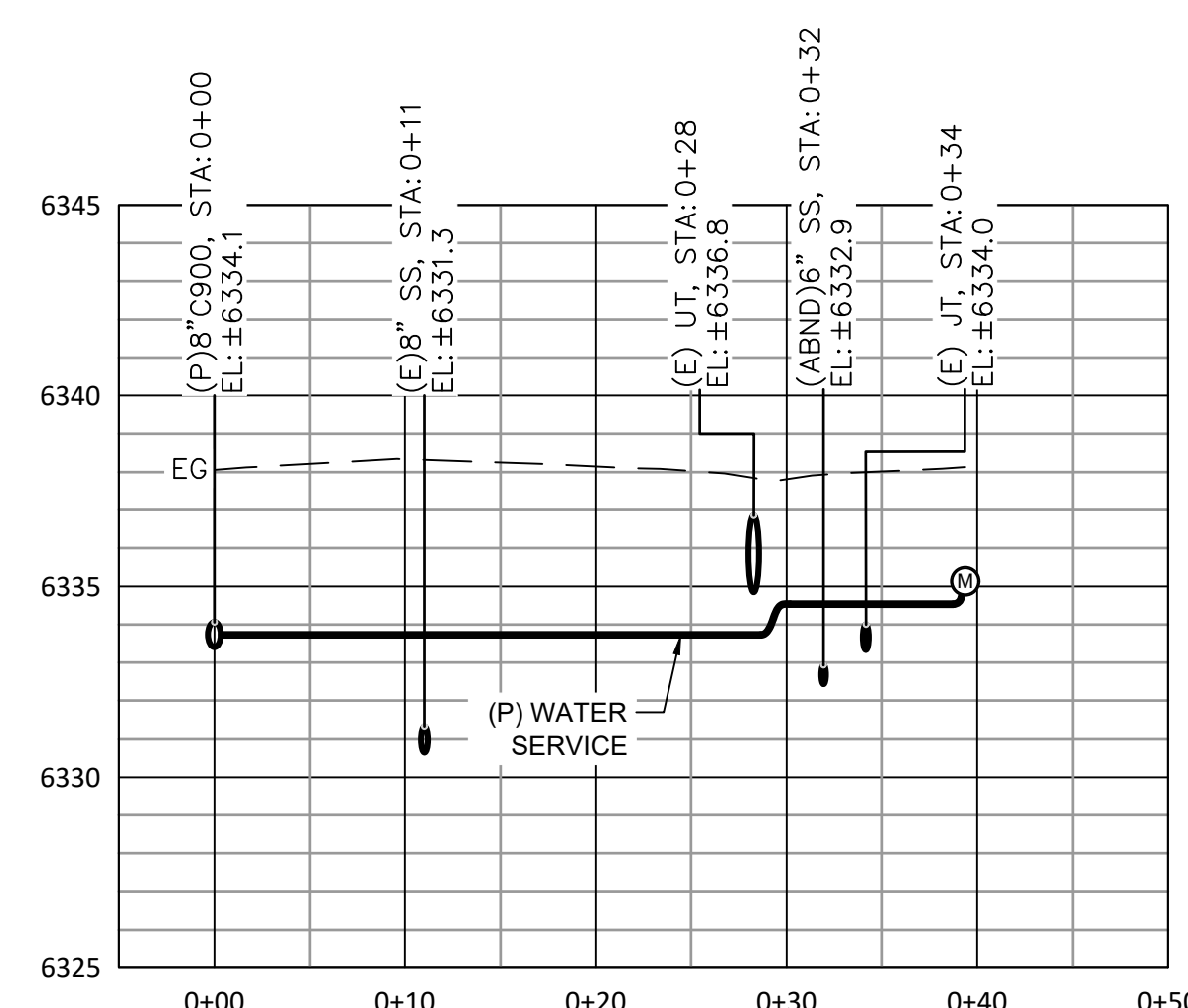
WATER SERVICE  
STA: 119+16



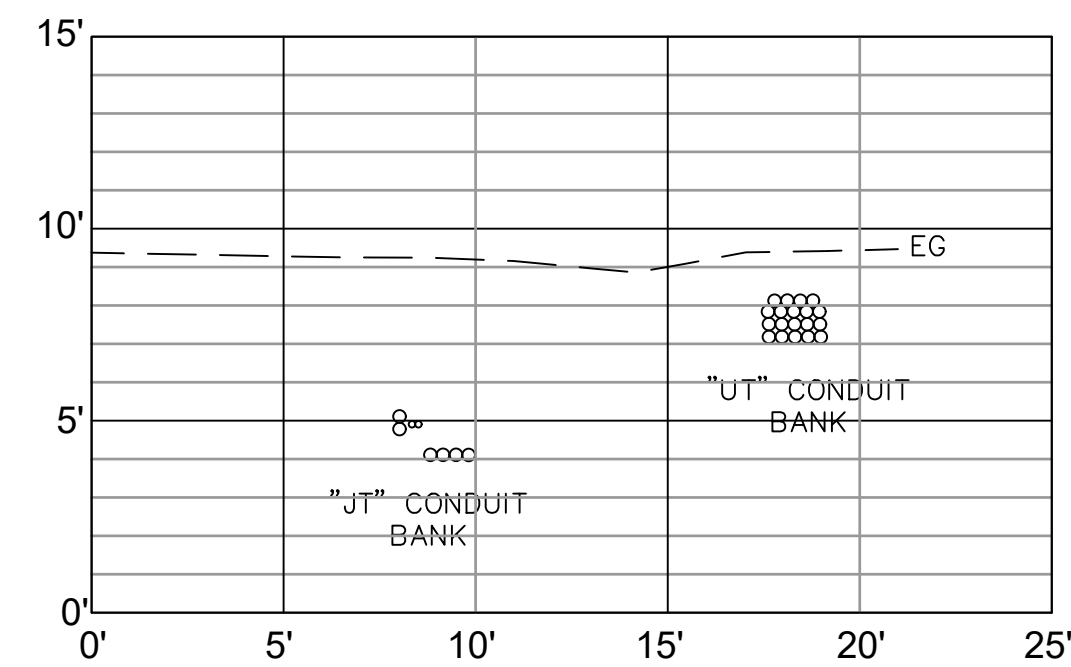
WATER SERVICE  
STA: 119+36 AND 119+38



WATER SERVICE  
STA: 120+36 AND 120+57

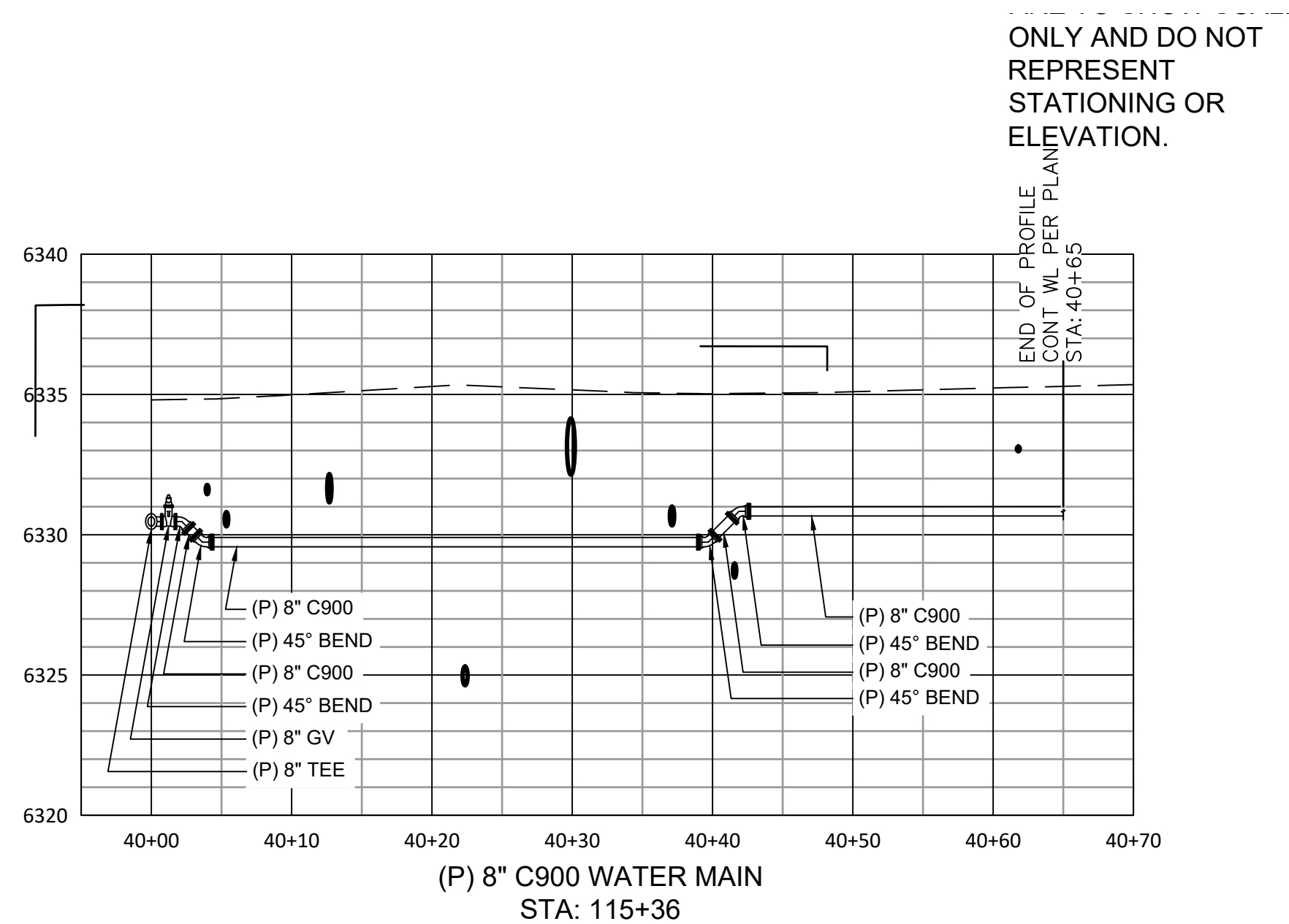
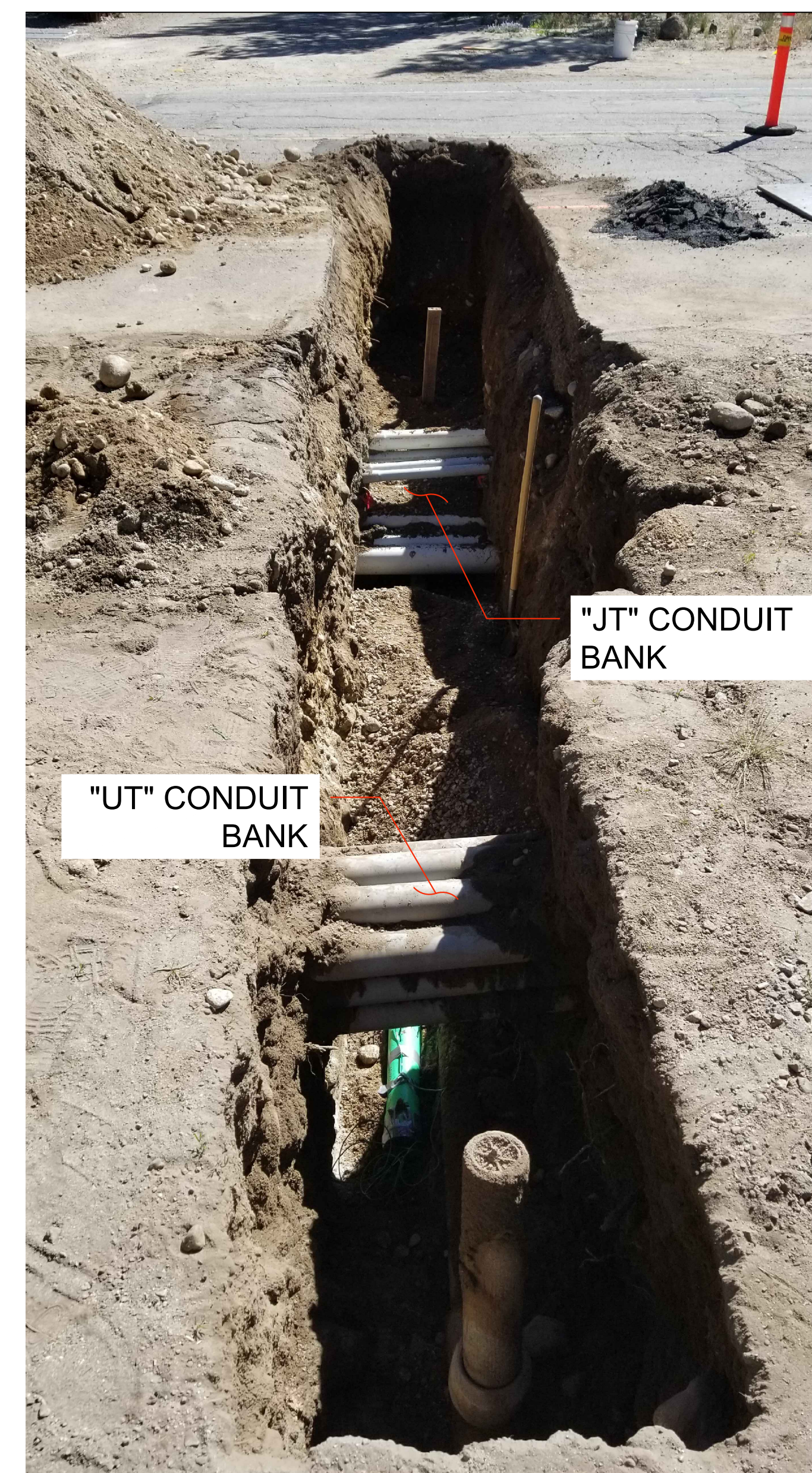


WATER SERVICE  
STA: 121+52



JT AND UT TRENCH  
(ZOOMED VIEW)

NOTE: THIS DIAGRAM IS FOR SHOWING GENERAL CONFIGURATION OF UTILITY CONDUIT BANKS ALONG APACHE AVE. POSITION OF CONDUITS SHOWN VARY. HORIZONTAL AND VERTICAL DISTANCES ARE TO SHOW SCALE ONLY AND DO NOT REPRESENT STATIONING OR ELEVATION.

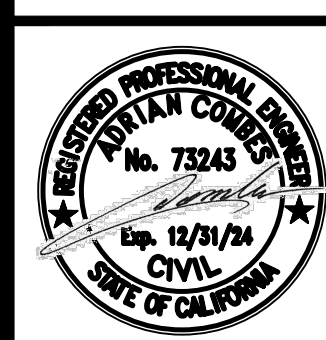


(P) 8" C900 WATER MAIN  
STA: 115+36

ONLY AND DO NOT REPRESENT STATIONING OR ELEVATION.

END OF PROFILE CONT. WL PER PLANT STA: 40+65

2024 APACHE WATERLINE REPLACEMENT PROJECT  
 WATER SERVICE PROFILES



DATE: JAN 2024  
 SCALE: AS SHOWN  
 DRAWN: TCJ  
 DESIGN: AC/TCJ  
 AS BUILT: