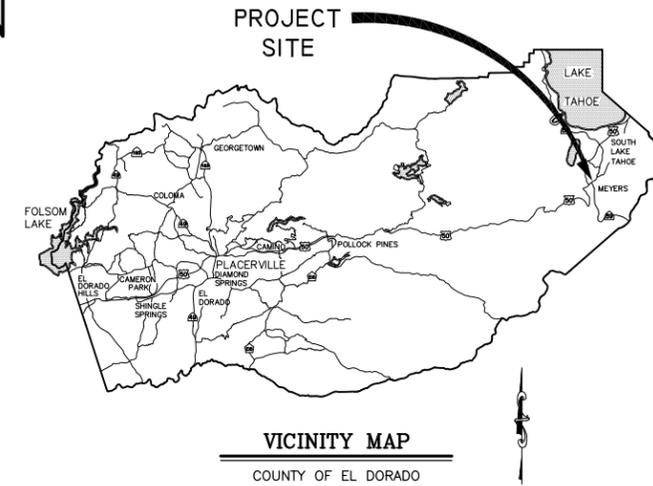


COUNTY OF EL DORADO, CA
 COMMUNITY DEVELOPMENT SERVICES
 DEPARTMENT OF TRANSPORTATION

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



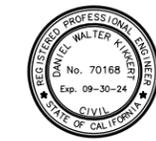
To be supplemented with the 2022 Standard Plans and Specifications of
 the California Department of Transportation, unless otherwise noted.



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

LOCATION MAP
 SCALE: 1" = 150'

- 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

APRIL 2, 2024
 DATE

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SOUTH TAHOE PUBLIC UTILITY DISTRICT
 WATER LINE RELOCATION SHEETS

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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



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 FAIRLANE CT
 PLACERVILLE, CA
 95667

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

CONTRACT NO. 7922, CIP NO. 95199

APACHE AVENUE PEDESTRIAN
 SAFETY AND CONNECTIVITY
 PROJECT

TITLE SHEET

33 OF 33

SHEET

GENERAL NOTES

- 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 2022 CALTRANS STANDARD PLANS, UNLESS NOTED OTHERWISE. ALL REFERENCES TO THE "STANDARD SPECIFICATIONS" MEAN THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS) 2022 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.
- CONSTRUCTION HOURS WILL BE WEEKDAYS BETWEEN 8:00 A.M. AND 6:30 P.M. UNLESS PRIOR APPROVAL IS RECEIVED FROM THE COUNTY TD.
- 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.
- 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.
- 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).
- 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.
- 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.
- 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.
- ALL CONTROL STATIONING AND DATA DIMENSIONING REFERENCE THE CENTERLINE OF THE FACILITY SHOWN, UNLESS NOTED OTHERWISE.
- 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.
- 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.
- 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.
- CONSTRUCTION LIMITS SHOWN DELINEATE THE BOUNDARIES FOR YOUR ACTIVITIES BEYOND THE COUNTY STREET RIGHT-OF-WAY. CONSTRUCTION LIMIT FENCING MUST BE ERECTED 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.
- UNLESS NOTED OTHERWISE, ALL REVEGETATION IS TO BE COMPLETED BY OTHERS.
- YOU WILL ONLY USE THE DESIGNATED SITES SHOWN FOR STORAGE OF EQUIPMENT AND MATERIALS. YOU ARE RESPONSIBLE FOR THE SECURITY OF EQUIPMENT AND MATERIALS.
- 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.
- 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.
- 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.
- YOU ARE RESPONSIBLE TO REVIEW THE CONTRACT DOCUMENTS FOR SUBMITTALS REQUIRED FOR COUNTY REVIEW AND ACCEPTANCE.
- THE COUNTY WILL PROVIDE CONSTRUCTION STAKING IN COMPLIANCE WITH SECTION 5-1.26 OF THE STANDARD SPECIFICATIONS.
- 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.
- 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	MISC	MISCELLANEOUS
A	ARCH OR ASPEN	MOC	MID POINT ON CURVE
AB	AGGREGATE BASE	MOD	MODIFIED
ABAND	ABANDONED	MV	MEADOW VALE
ABC	ARTICULATED BLOCK CHANNEL	N	NORTH
AC	ASPHALT CONCRETE	NEG	NEGLIGIBLE
AP	ANGLE POINT	NGVD	NATIONAL GEODETIC VERTICAL DATUM
APN	ASSESSOR'S PARCEL NUMBER	NIC	NOT IN CONTRACT
BC	BEGIN CURVE	NTS	NOT TO SCALE
BCR	BEGIN CURB RETURN	OAE	OR APPROVED EQUAL
BGN	BEGIN	OC	ON CENTER
BLC	BLANKET-LINED CHANNEL	OD	OUTSIDE DIAMETER
BR	BOCA RATON	OG	ORIGINAL GROUND
BVCE	BEGIN VERTICAL CURVE ELEVATION	OH	OVERHEAD
BVCS	BEGIN VERTICAL CURVE STATION	OVEREX OR O/X	OVEREXCAVATION
C	CEDAR	P	PINE
CALCS	CALCULATIONS	PC	POINT OF BEGINNING OF CURVE
CATV	CABLE TELEVISION	PCC	PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVE
CC	CENTER TO CENTER	PED	PEDESTRIAN
CF	CUBIC FEET OR CURB FACE	PERF	PERFORATED
CHD	CHORD DIRECTION	PCVCE	POINT OF COMPOUND VERTICAL CURVE ELEVATION
CIR	CIRCLE	PCVCS	POINT OF COMPOUND VERTICAL CURVE STATION
CL	CENTERLINE	PL	PROPERTY LINE
CLR	CLASS OR CENTERLINE	POR	PORTION
CO	CURB OPENING OR CLEANOUT	PP	POWER/UTILITY POLE
CO.	COUNTY	PRC	POINT OF REVERSE CURVE
CONC	CONCRETE	PROP	PROPOSED
CONST	CONSTRUCT	PRVCE	POINT OF REVERSE VERTICAL CURVE ELEVATION
CMP	CORRUGATED METAL PIPE	PRVCS	POINT OF REVERSE VERTICAL CURVE STATION
CSP	CORRUGATED STEEL PIPE	PT	POINT OR POINT OF TANGENCY
CT	CALTRANS OR COURT	PUE	PUBLIC UTILITY EASEMENT
CTC	CALIFORNIA TAHOE CONSERVANCY	PVC	POLYVINYL CHLORIDE
CY	CUBIC YARD	PVIE	POINT OF VERTICAL INTERSECTION ELEVATION
C&G	CURB AND GUTTER	PVIS	POINT OF VERTICAL INTERSECTION STATION
D	DEPTH	PVMT	PAVEMENT
DBL	DOUBLE	R	RADIUS
DET	DETAIL	R&R	REMOVE & REPLACE
DI	DRAINAGE INLET OR DUCTILE IRON	RC	RELATIVE COMPACTION
DIA OR Ø	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DISS	DISSIPATOR	RD	ROAD
DR	DRIVE	REF	REFERENCE
D/W	DRIVEWAY	REQ'D	REQUIRED
E	EAST	RLC	ROCK-LINED CHANNEL
EA	EACH	ROW	RIGHT-OF-WAY
EC	END OF CURVE	RSF	REINFORCED SILT FENCE
ECR	END OF CURB RETURN	RSP	ROCK SLOPE PROTECTION
ELEC	ELECTRIC	RT	RIGHT
ELEV	ELEVATION	RW	RETAINING WALL
ENGR	ENGINEER	S	SOUTH OR SANITARY SEWER
EP	EDGE OF PAVEMENT	SCO	SEWER CLEAN OUT
ESA	TEMPORARY FENCE	SD	STORM DRAIN
ESMT	EASEMENT	SDMH	STORM DRAIN MANHOLE
EVCE	END VERTICAL CURVE ELEVATION	SEZ	STREAM ENVIRONMENT ZONE
EVCS	END VERTICAL CURVE STATION	SF	SQUARE FEET
EX OR EXIST	EXISTING	SFHA	SPECIAL FLOOD HAZARD AREA
F	FIR	SHT	SHEET
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY	SL	SLOPE LENGTH
FES	FLARED END SECTION	SMH	SEWER MANHOLE
FG	FINISHED GRADE	ST	STATION
FH	FIRE HYDRANT	STA	STANDARD
FL	FLOWLINE	STD	STANDARD
FL	FLOWLINE	STL	STEEL
FS	FINISH SURFACE	STPUD	SOUTH TAHOE PUBLIC UTILITY DISTRICT
G	GAS	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
GA	GAUGE	T	TELEPHONE
GB	GRADE BREAK	TBC	TOP BACK OF CURB
GLS	GRASS-LINED SWALE	TBD	TOP BACK OF DIKE
GW	GROUND WATER	TBR	TO BE REMOVED
H	HORIZONTAL	TD	TOP OF DIKE
HDPE	HIGH DENSITY POLYETHYLENE	TG	TOP OF GRATE
HP	HIGH POINT	TTL	TOTAL
HWL	HIGH WATER LINE	TRANS	TRANSITION
ID	INSIDE DIAMETER	TRM	TURF REINFORCEMENT MAT
IE	INVERT ELEVATION	TRPA	TAHOE REGIONAL PLANNING AGENCY
INCR	INCREASE	TYP	TYPICAL
INST	INSTALL	UG	UNDERGROUND
INTRXN	INTERSECTION	UKN	UNKNOWN
L	LENGTH	USFS	UNITED STATES FOREST SERVICE
LC	LENGTH OF CHORD	V	VERTICAL
LF	LINEAR FEET	W	WEST OR WATER
LP	LOW POINT	W/O	WITHOUT
LT	LEFT	WC	WILLOW CLUSTER
MAT'L	MATERIAL	WV	WATER VALVE

LEGEND

EXISTING		PROPOSED	
(SCREENED AND/OR DASHED)	EXISTING (AS NOTED)	—————	CENTERLINE
—————	RIGHT-OF-WAY OR PROPERTY LINE	—————	SAWCUT (AS NOTED)
—————	EASEMENT	XXXX.XX	ELEVATION
—————	LAND CAPABILITY BOUNDARY	XXXX.X XXXX.XX	ELEVATION, EG CL, PROPOSED (PROFILE ONLY)
—————	10' SEZ SETBACK	○ □	CSP INLET/RISER OR STORM DRAIN MANHOLE, DRAINAGE INLET
○ or ○	ROCK	VV	CUT OR FILL SLOPE
●	FOUND MONUMENT	(X)	DETAIL REF NUMBER SHEET NUMBER
XXXX.X	ELEVATION	■	ROCK
⊙	SEWER MANHOLE	=====	SD PIPE (MATERIAL AS NOTED)
○ SCO	SEWER CLEAN OUT	-RSF-ESA-	REINFORCED SILT FENCE AND TYPE ESA FENCE
■	DRAINAGE INLET	▷	FLARED END SECTION
gm	GAS METER	#:#	SLOPE RATIO, H: V
WV	WATER VALVE	=====	ROCK-LINED CHANNEL
WM	WATER METER	=====	BLANKET-LINED CHANNEL
⊙	MONITORING WELL	+	TREE REMOVAL
—————	WATER LINE	—————	FLOWLINE
—————	SEWER LINE	—————	CUT
—————	GAS LINE	—————	FILL
=====	STORM DRAIN	—————	OVERHEAD UTILITIES
—————	POWER/UTILITY POLE	—————	REQUIRED
—————	UTILITY POLE & GUY ANCHOR	—————	ROCK-LINED CHANNEL
—————	FIRE HYDRANT	—————	RIGHT
—————	FENCE	—————	RETAINING WALL
—————	FLOWLINE	—————	SOUTH OR SANITARY SEWER
○ 20"	TREE, DIAMETER AND TYPE	—————	SEWER CLEAN OUT
○	STUMP	—————	STORM DRAIN
○ inc	WILLOW CLUSTER	—————	STORM DRAIN MANHOLE

UTILITIES

CABLE TELEVISION	CHARTER SPECTRUM COMMUNICATIONS, (775) 588-1077
NATURAL GAS	SOUTHWEST GAS, (530) 543-3225
ELECTRIC	LIBERTY UTILITIES, (530) 541-6400
SEWER & WATER	SOUTH TAHOE PUD, (530) 544-6474
TELEPHONE	AT&T, (530) 888-2031
STORM DRAIN	CO. OF EL DORADO TRANSPORTATION DIVISION, (530) 573-3180

DRAWING NAME: \\\CD\Users\TD-SIT-Engineering\Projects\2024\24-0552 D 2 of 43\24-0552 D 2 of 43.dwg
ORIGINAL SCALE IS IN INCHES
FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
APRIL 2, 2024
 DATE:

DESIGNED: DMG
 DRAWN: DMG
 CHECKED: DWK
 DATE: 4/2024
 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
 2 OF 33
 CONTRACT NO.
7922
 CIP No.
95199

Drawing name: \\CD\Users\TD-SJT-Engineering\Civil_3D_PROJECTS\95199\Engineering\MP\PLAN\3_APACHE III INDEX.dwg

FOR REDUCED PLANS
REVISION
2 ORIGINAL SCALE IS IN INCHES
1
0



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 *	732	20	97
TOTALS	737	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.

* ROADWAY CUT DOES NOT INCLUDE 1277 CY OF EXISTING ASPHALT
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



PREPARED UNDER THE SUPERVISION OF:
[Signature]
REGISTERED CIVIL ENGINEER
DATE: **APRIL 2, 2024**

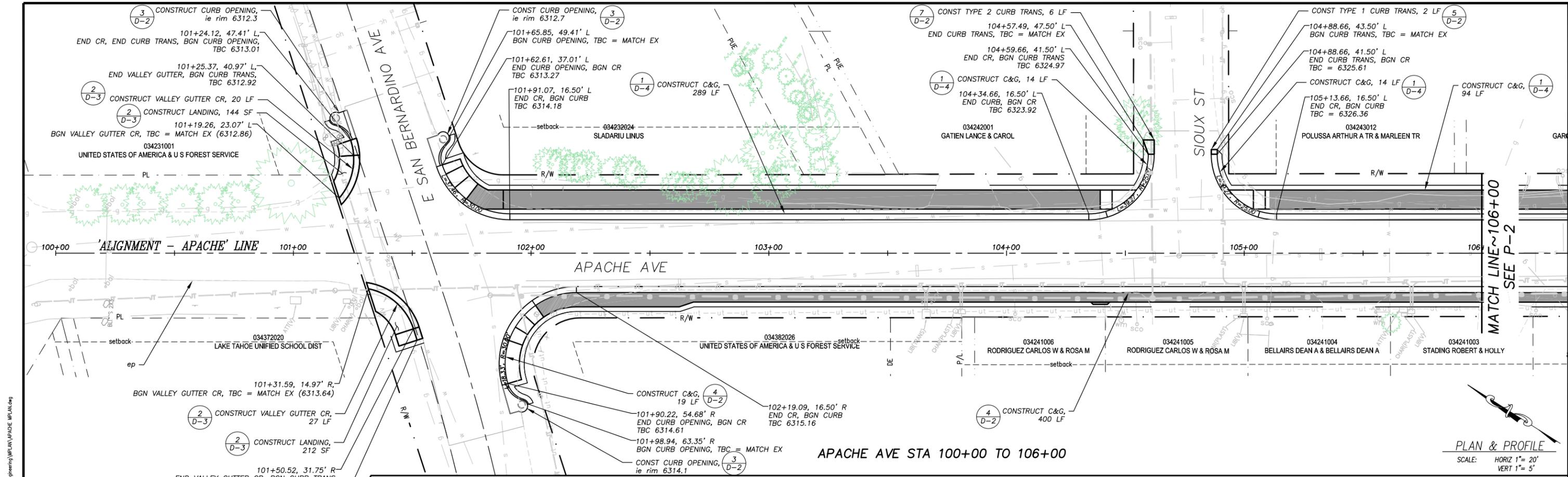
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ROAD NUMBER: ---



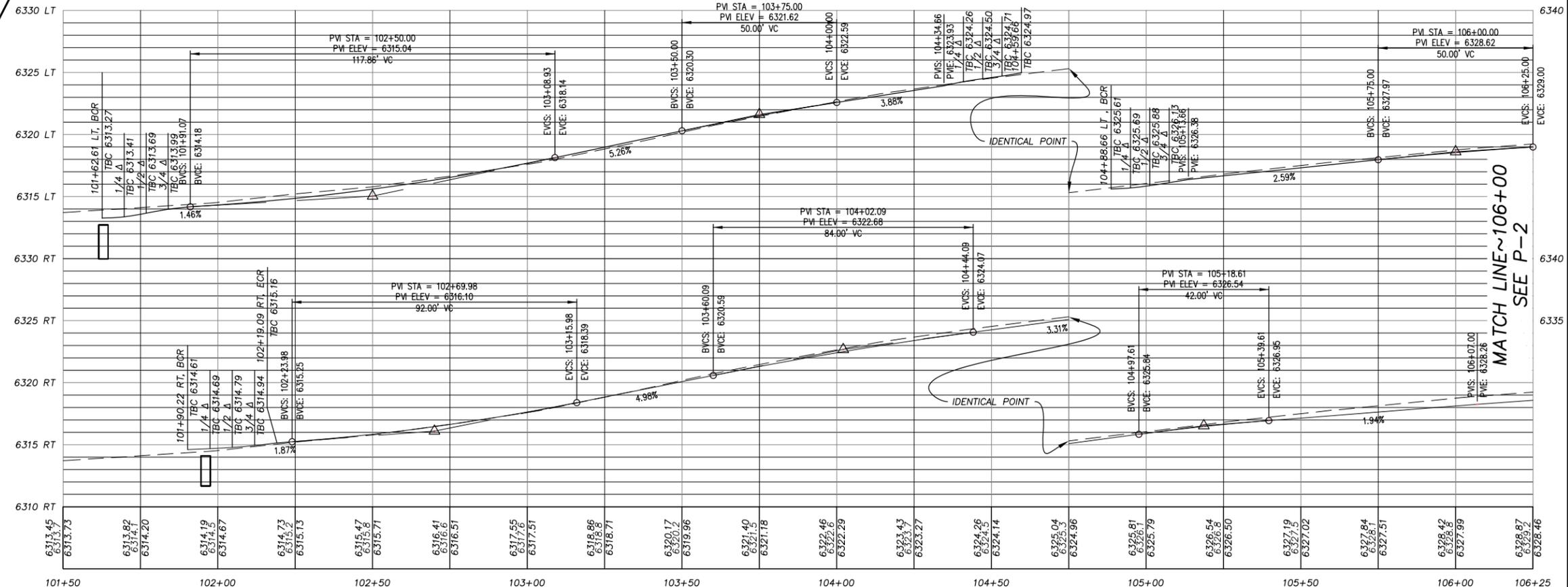
COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT SERVICES
DEPARTMENT OF TRANSPORTATION

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



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



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.

NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 APRIL 2, 2024
 DATE:

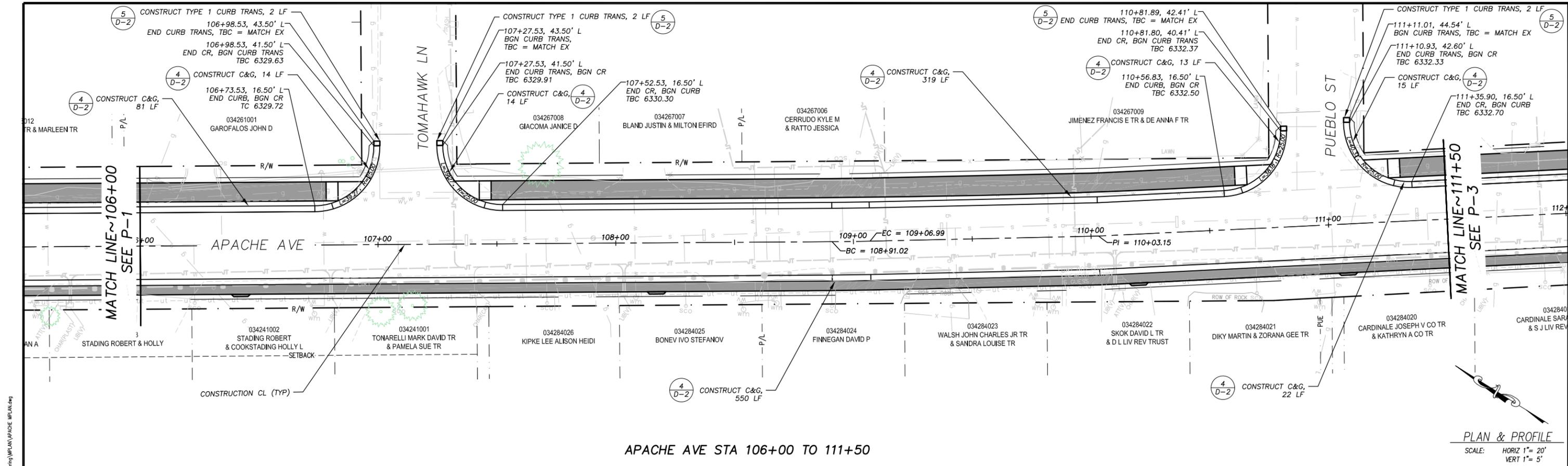
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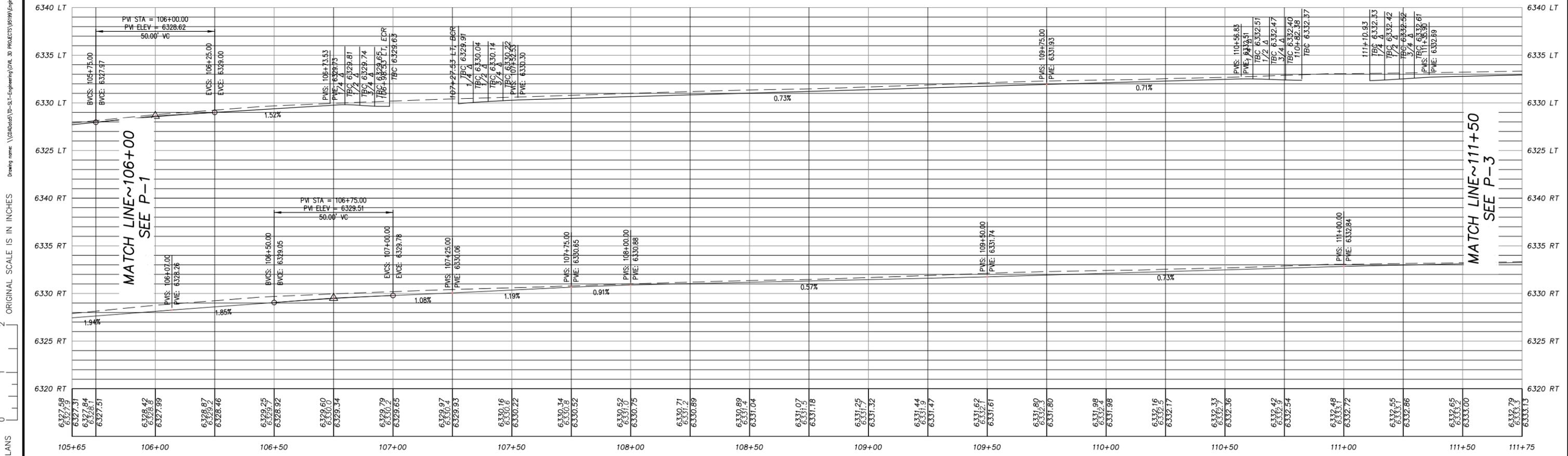
COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT SERVICES
 TRANSPORTATION DEPARTMENT

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



REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
 [Signature]
 REGISTERED CIVIL ENGINEER
 APRIL 2, 2024

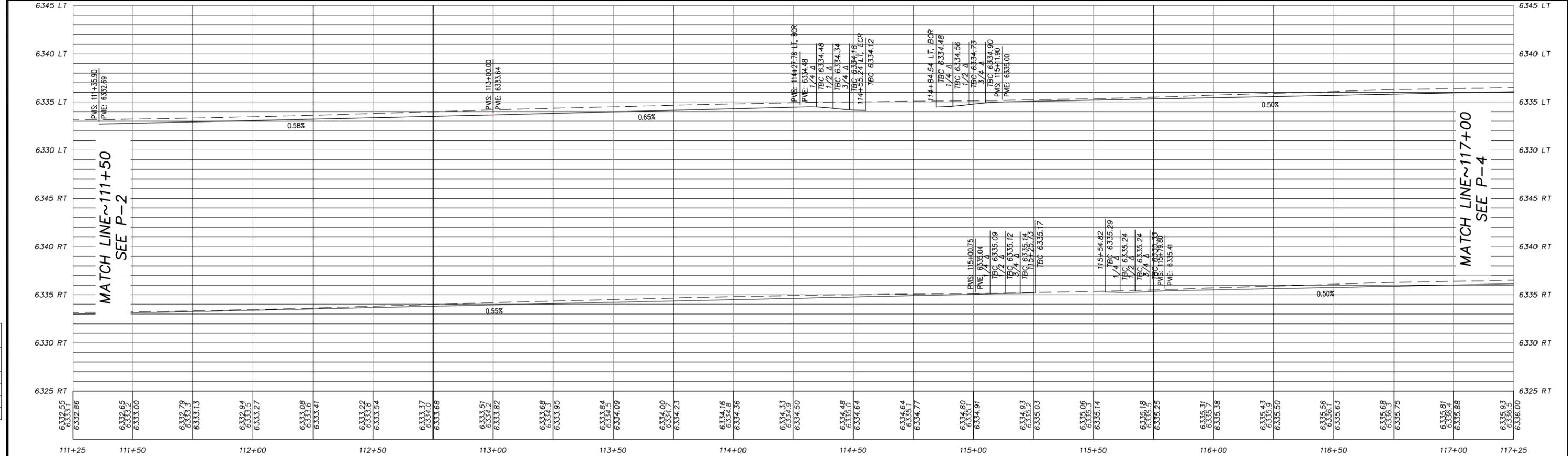
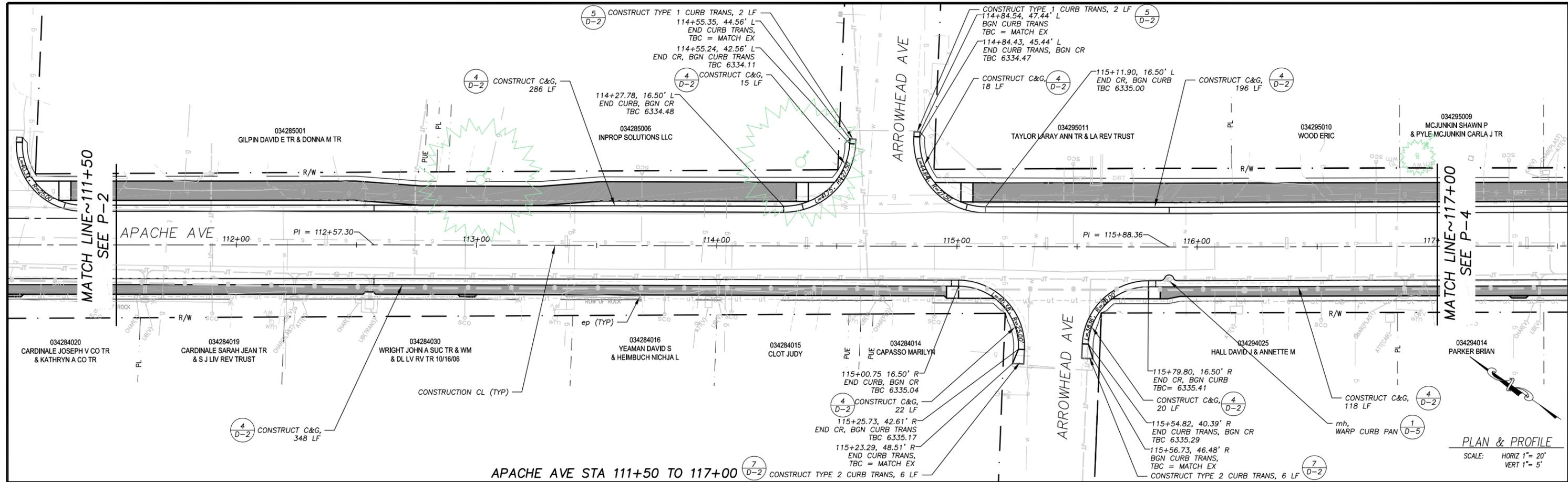
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 DRAWN: DMG
 CHECKED: DWK
 DATE: 4/2024
 ROAD NUMBER: ---

EL DORADO COUNTY
 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

DRAWING NAME: \CD\A052\24-0552\24-0552 D 7 of 43 - Engineering\WPA\APACHE MPA\APACHE.dwg



REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
APRIL 2, 2024
 DATE:

DESIGNED: DMG
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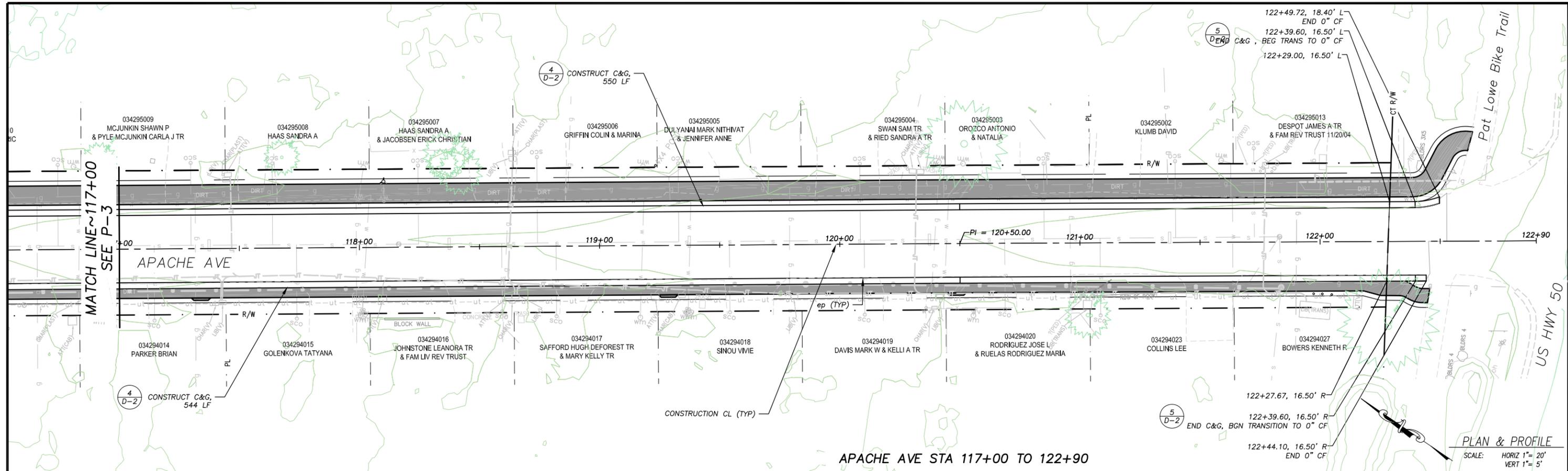


COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT SERVICES
TRANSPORTATION DEPARTMENT

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

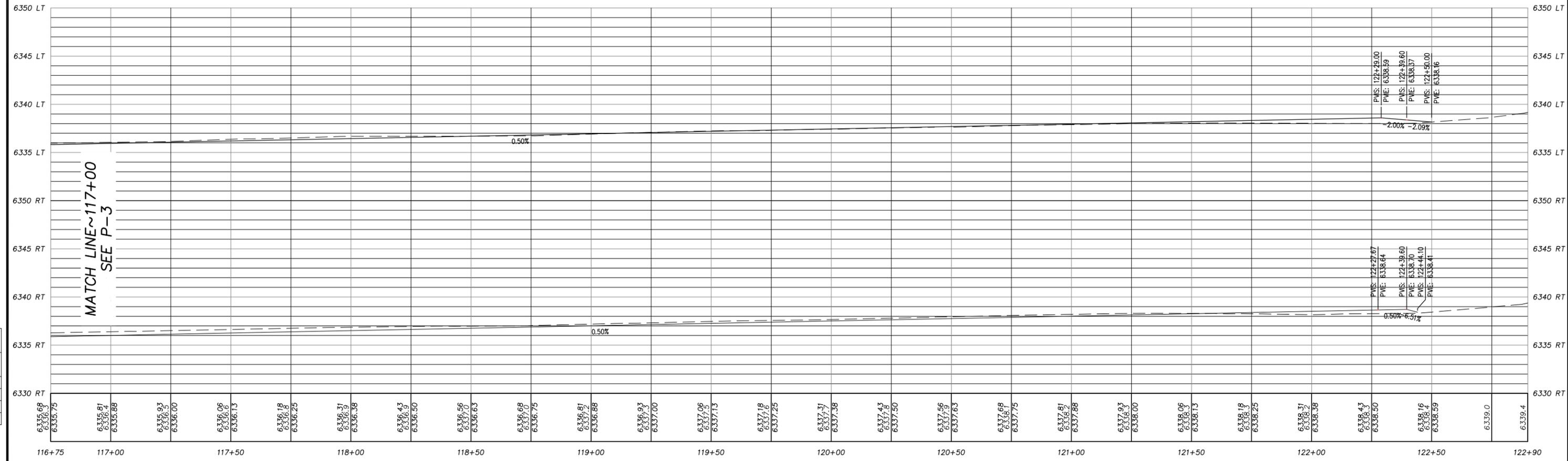
SHEET **P-3**
 7 OF 33
 CONTRACT NO. **7922**
 CIP No. **95199**

Drawing name: \\D:\Users\TD-SIT-Engineering\Projects\24-0552 D 8 of 43\Projects\24-0552 D 8 of 43\Engineering\MP\AN\APACHE.MXD



APACHE AVE STA 117+00 TO 122+90

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



REVISION	NUMBER	DATE	DESCRIPTION	BY



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[Signature]
REGISTERED CIVIL ENGINEER
APRIL 2, 2024
DATE:

DESIGNED: DMG
DRAWN: DMG
CHECKED: DWK
DATE: 4/2024
ROAD NUMBER: ---

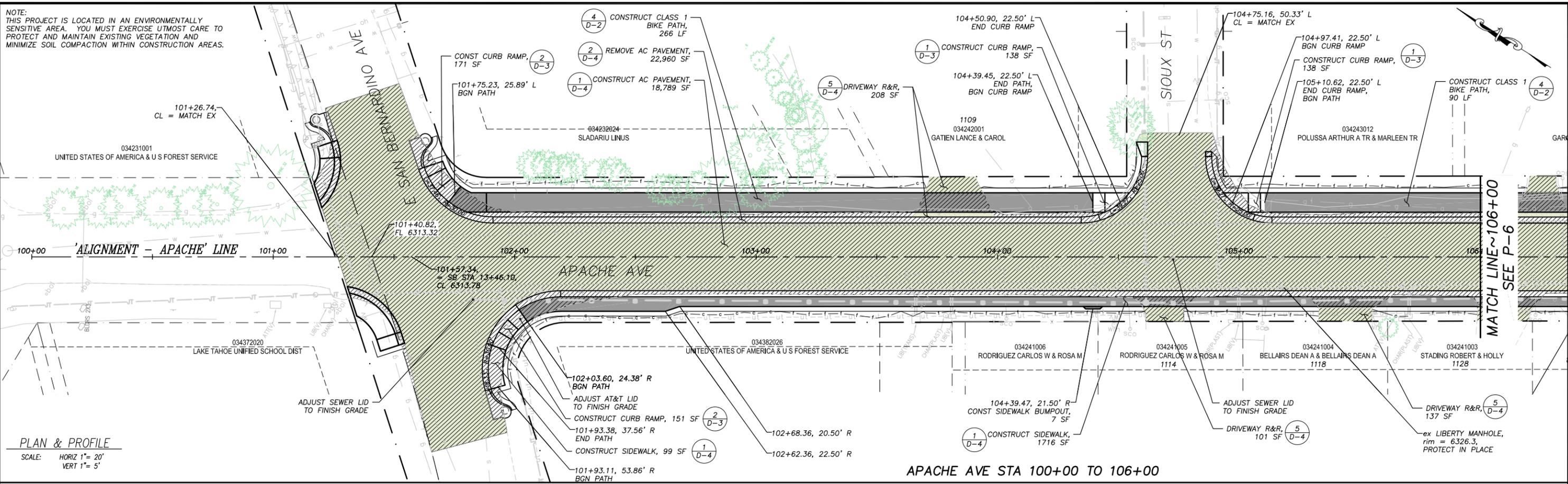


COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT SERVICES
TRANSPORTATION DEPARTMENT

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:
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.



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

Drawing name: \\D:\Users\TD-SJT-Engineering\Civil_3D_PROJECTS\95199\Engineering\WPA\APACHE\WPA.dwg

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

REVISION

NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
REGISTERED CIVIL ENGINEER
DATE: **APRIL 2, 2024**

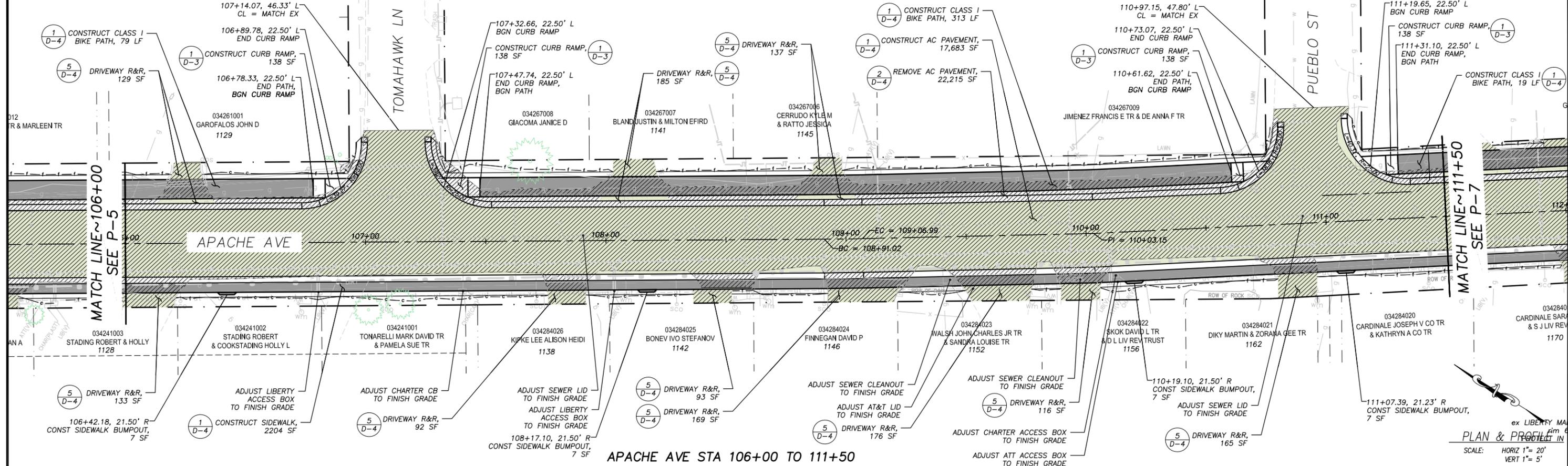
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DRAWN: DMG
CHECKED: DWK
DATE: 4/2024
ROAD NUMBER: ---



COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT SERVICES
TRANSPORTATION DEPARTMENT

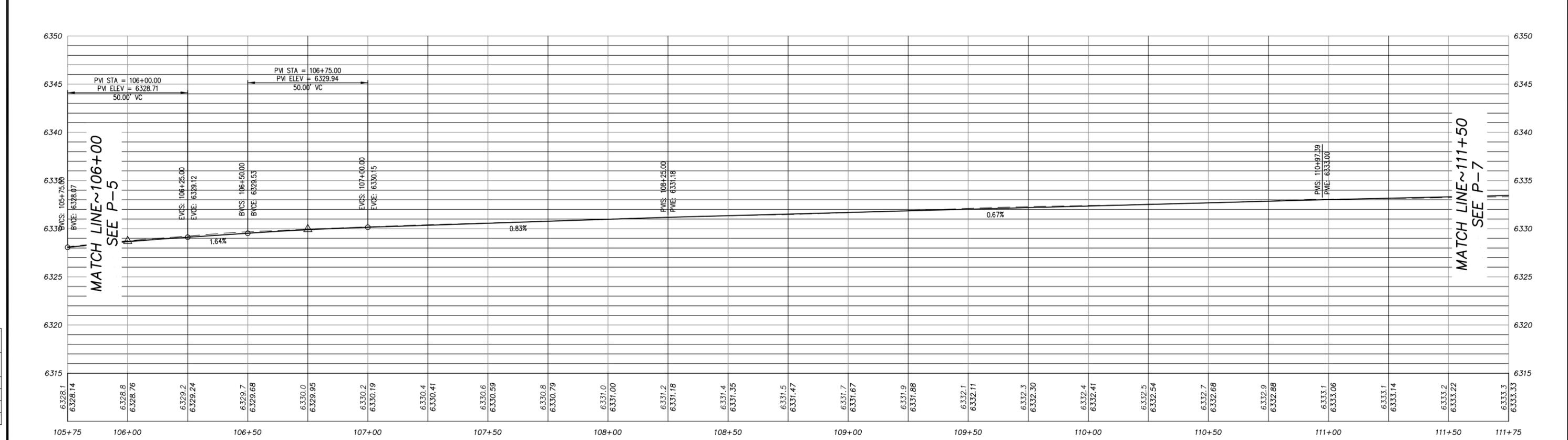
APACHE AVENUE PEDESTRIAN SAFETY AND
CONNECTIVITY PROJECT
PROPOSED CENTER LINE PROFILE
STA 101+00 TO 106+00

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'



FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 APRIL 2, 2024
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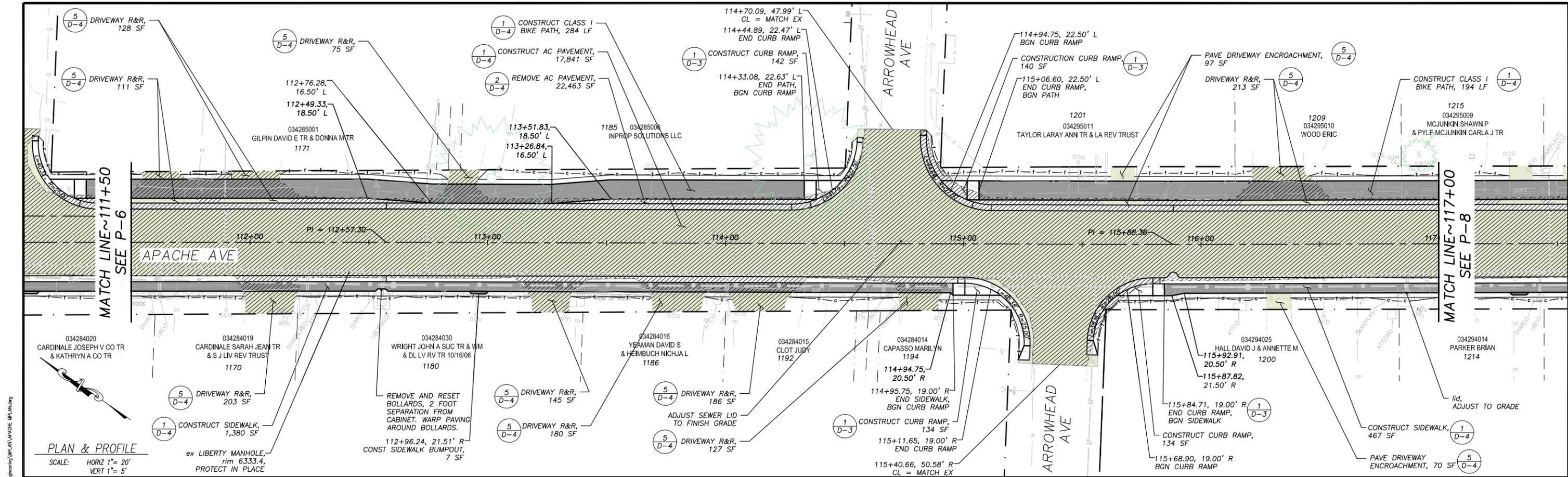
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COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT SERVICES
 TRANSPORTATION DEPARTMENT

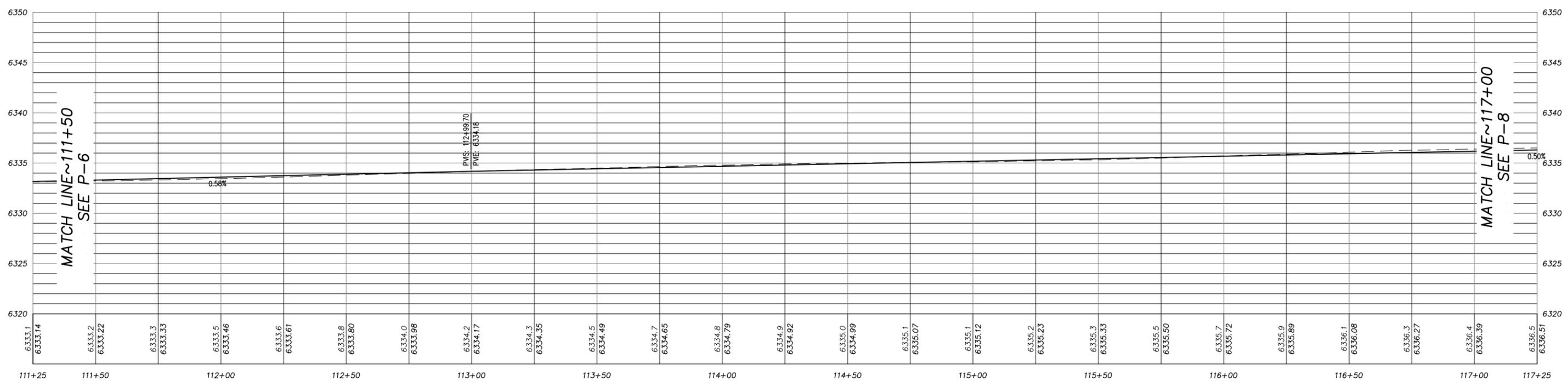
APACHE AVENUE PEDESTRIAN SAFETY AND
 CONNECTIVITY PROJECT
 PROPOSED CENTER LINE PROFILE
 STA 106+00 TO 111+50

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



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

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 REVISION
 NUMBER DATE DESCRIPTION BY



APACHE AVE STA 111+50 TO 117+00

REVISION	NUMBER	DATE	DESCRIPTION	BY



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[Signature]
 REGISTERED CIVIL ENGINEER
APRIL 2, 2024
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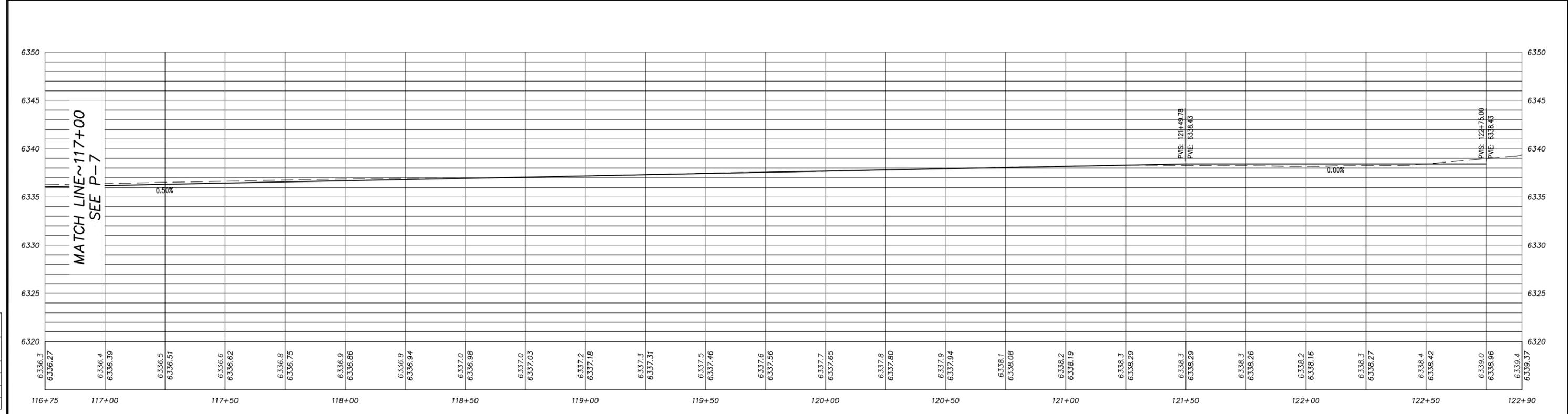
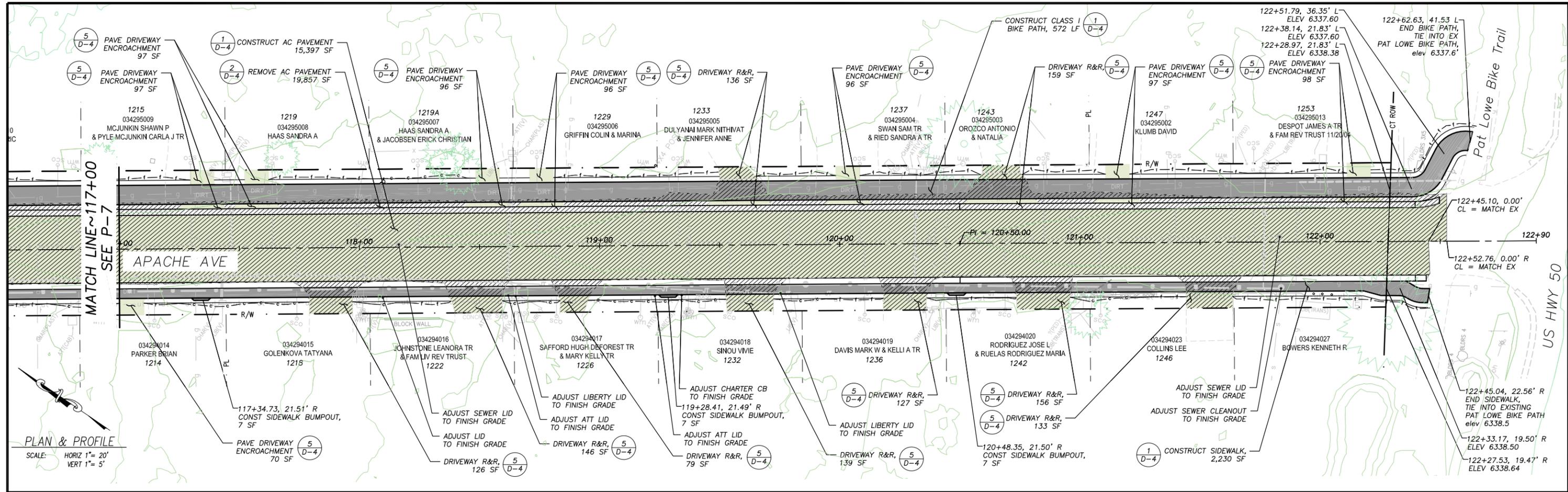
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 DATE: 4/2024
 ROAD NUMBER: ---



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



APACHE AVE STA 117+00 TO 122+50

FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

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 APRIL 2, 2024
 DATE:

DESIGNED: DMG
 DRAWN: DMG
 CHECKED: DWK
 DATE: 4/2024
 ROAD NUMBER: ---

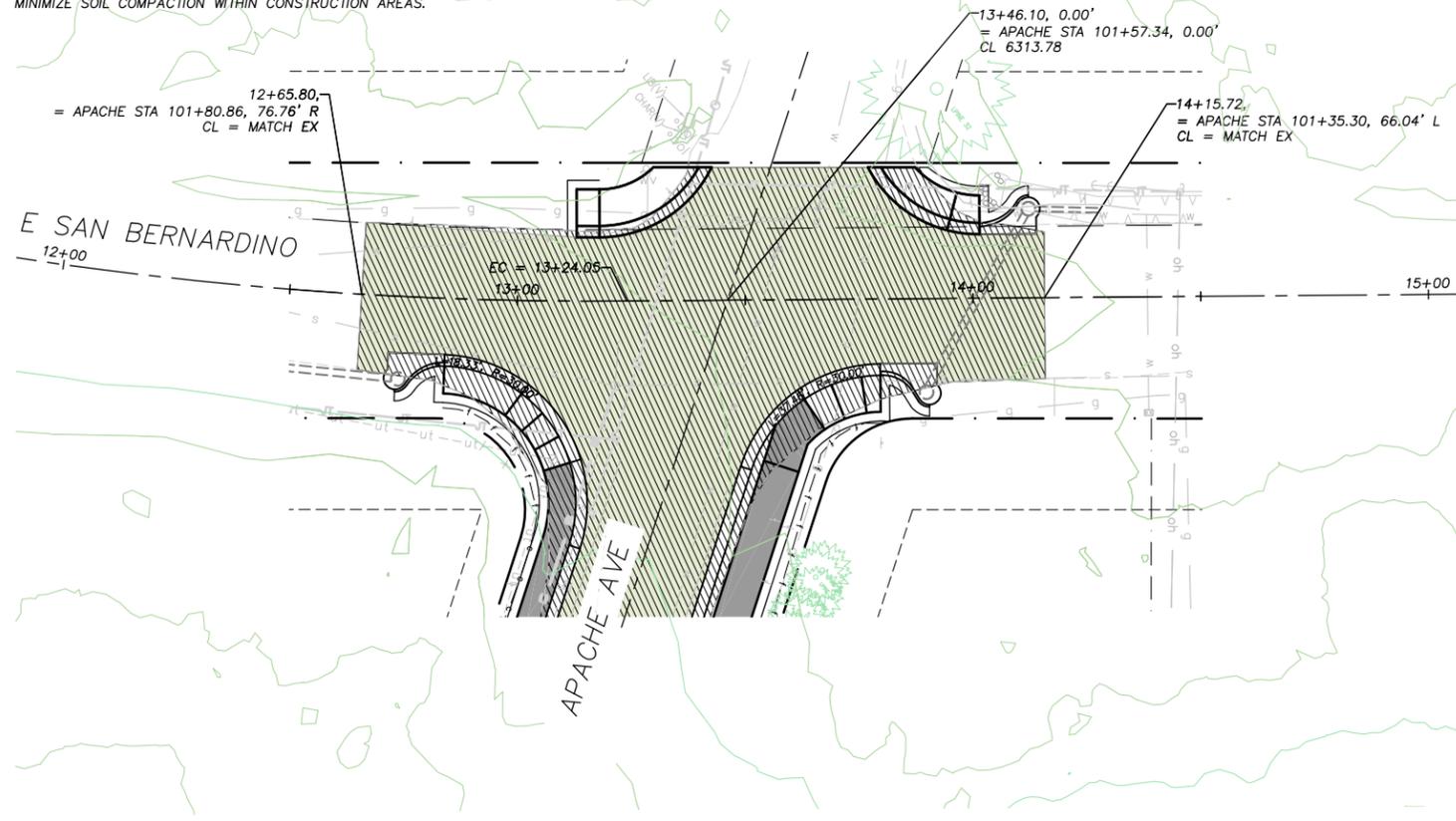


COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT SERVICES
 TRANSPORTATION DEPARTMENT

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

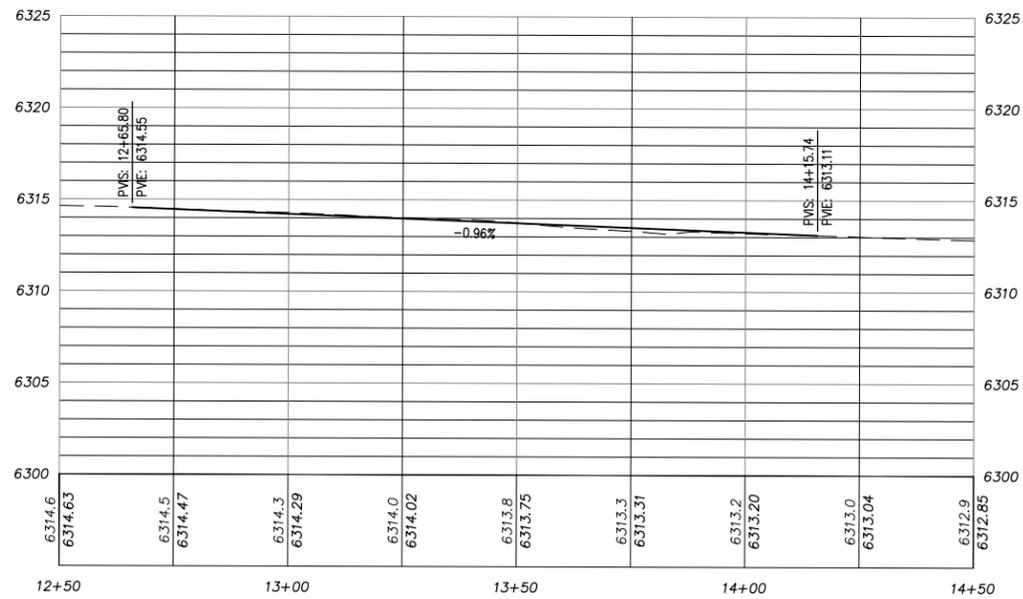
SHEET
P-8
 12 OF 3
 CONTRACT NO.
5408
 CIP No.
95199

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.

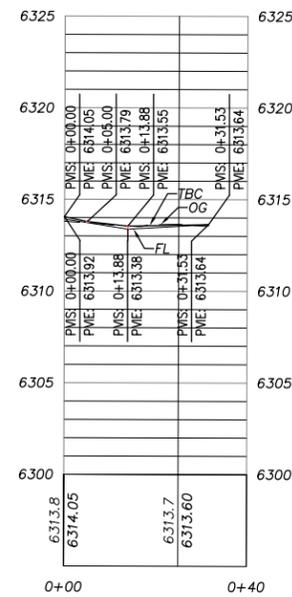


PLAN & PROFILE

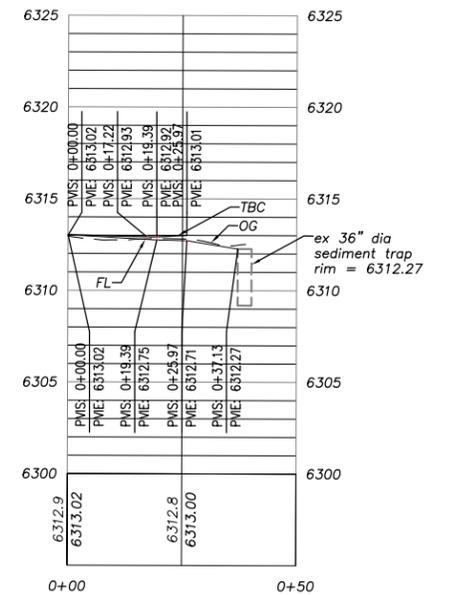
SCALE: HORIZ 1" = 20'
VERT 1" = 5'



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-SJT-Engineering\Civil_3D\PROJECTS\95199\Engineering\MP\AN\APACHE.MPJ\AN.dwg

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[Signature]
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DATE: **APRIL 2, 2024**

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CHECKED: DWK
DATE: 4/2024
ROAD NUMBER: ---

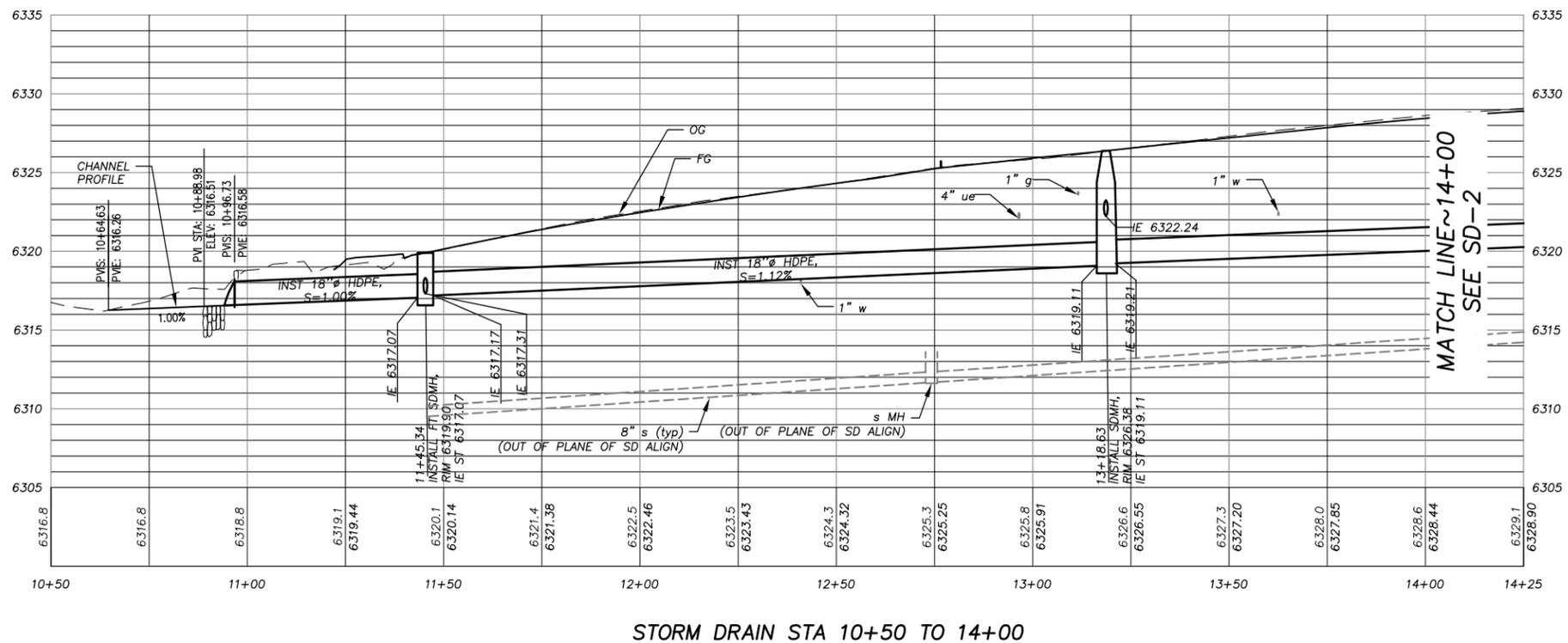
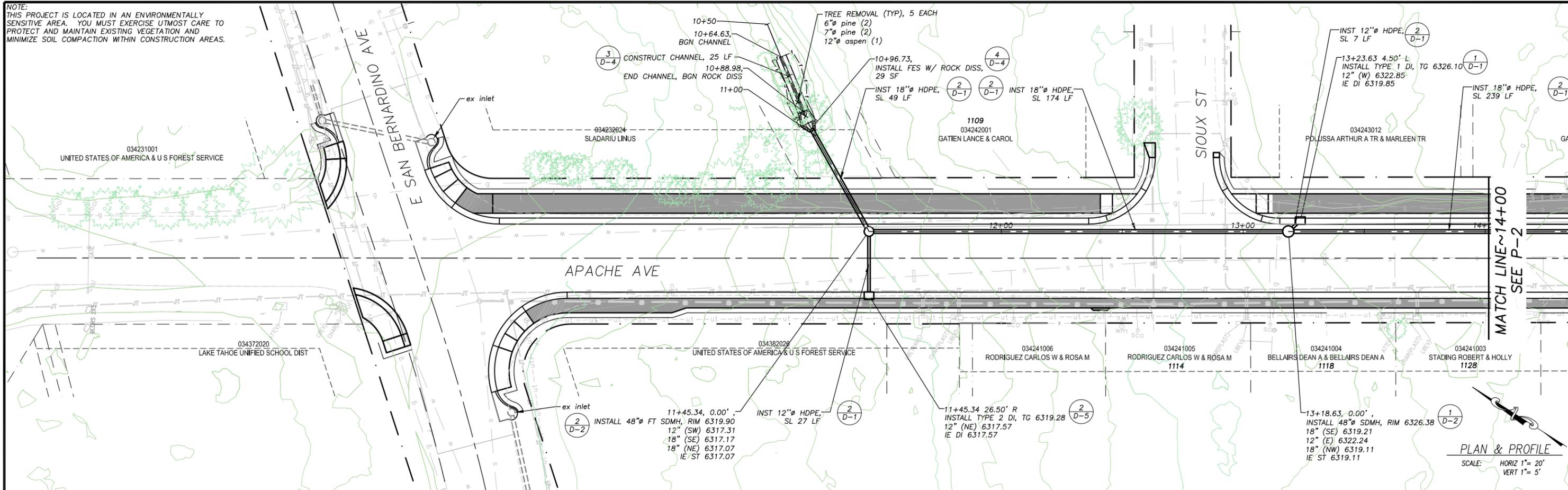


COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT SERVICES
TRANSPORTATION DEPARTMENT

APACHE AVENUE PEDESTRIAN SAFETY AND
CONNECTIVITY PROJECT

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

NOTE:
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DRAWING NAME: \\\CD\Users\TD-S-T-Engineering\Civil_3D_PROJECTS\95199\Engineering\WPA\WPA-CDE-WPA-A.dwg

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
REGISTERED CIVIL ENGINEER
APRIL 2, 2024
DATE:

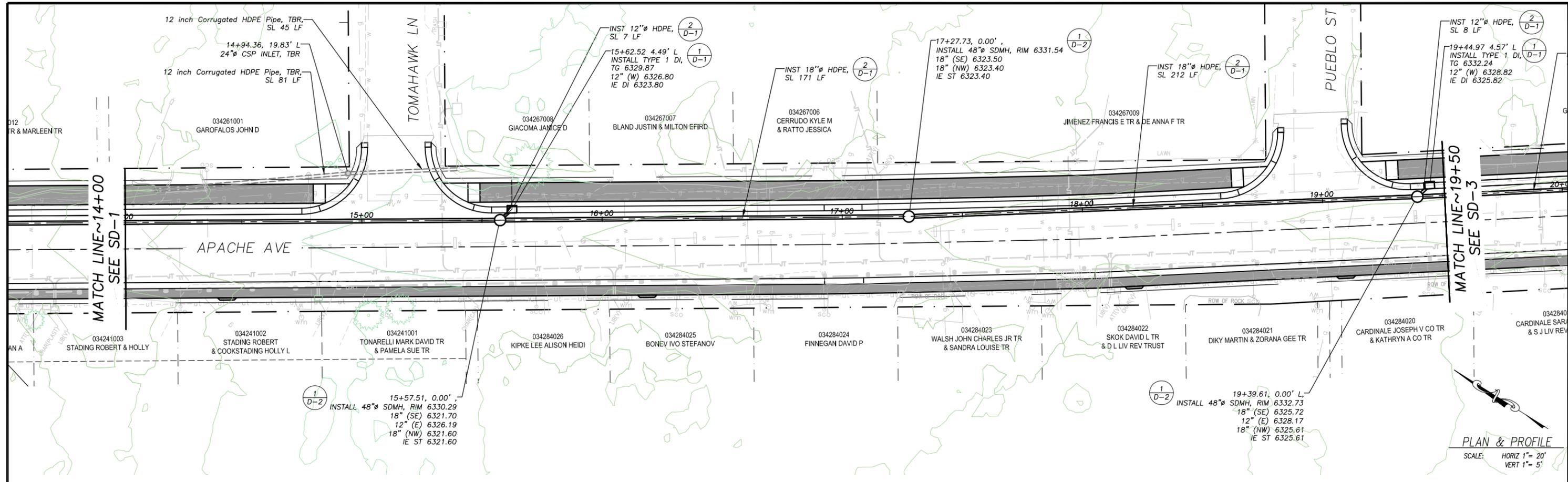
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CHECKED: DWK
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ROAD NUMBER: ---



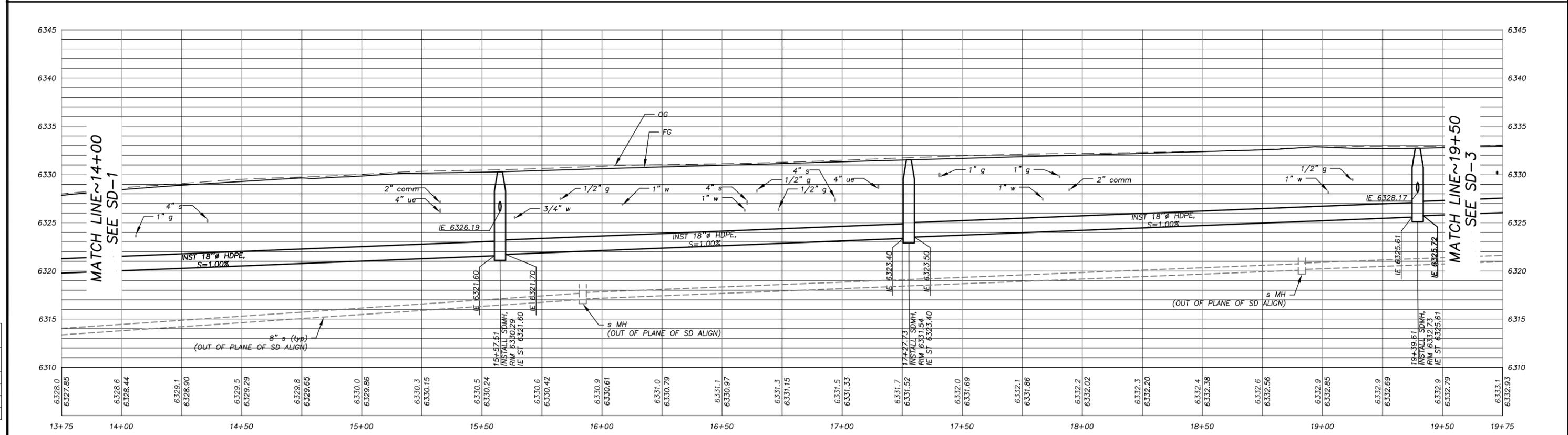
COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT SERVICES
TRANSPORTATION DEPARTMENT

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

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



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



STORM DRAIN STA 14+00 TO 20+00

ORIGINAL SCALE IS IN INCHES
 2
 1
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 FOR REDUCED PLANS
 REVISION

NUMBER	DATE	DESCRIPTION	BY



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 REGISTERED CIVIL ENGINEER
APRIL 2, 2024
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DESIGNED: DMG
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 DATE: 4/2024

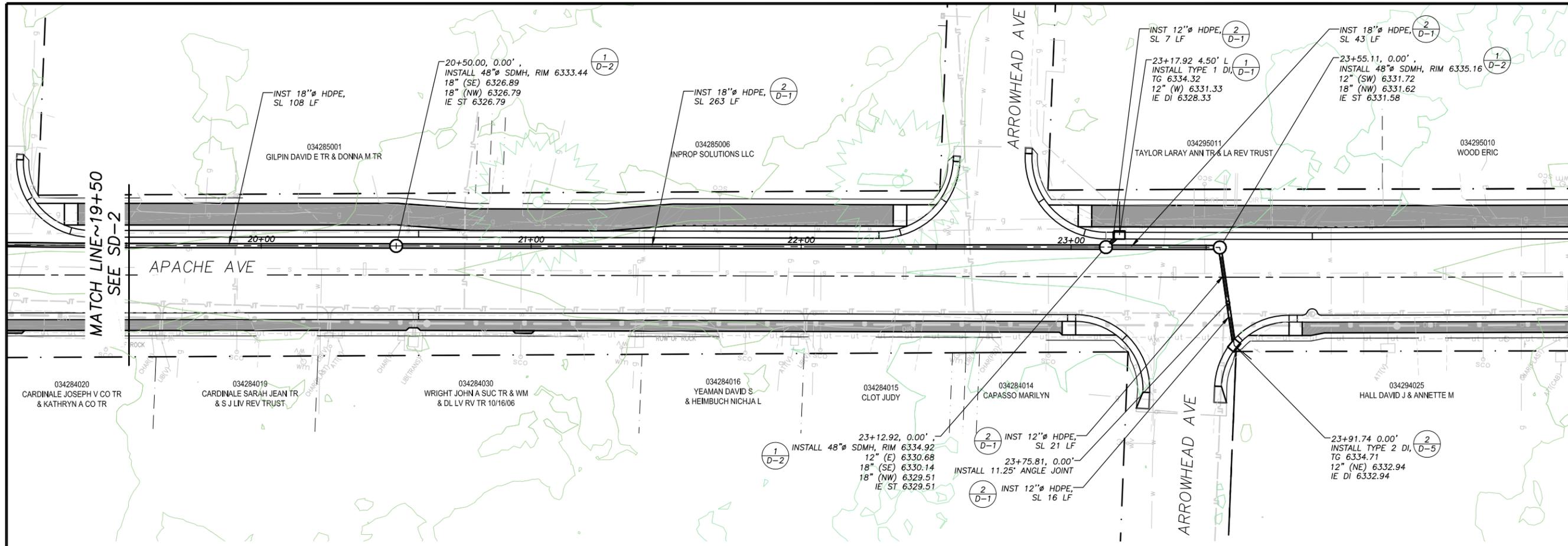


COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT SERVICES
 TRANSPORTATION DEPARTMENT

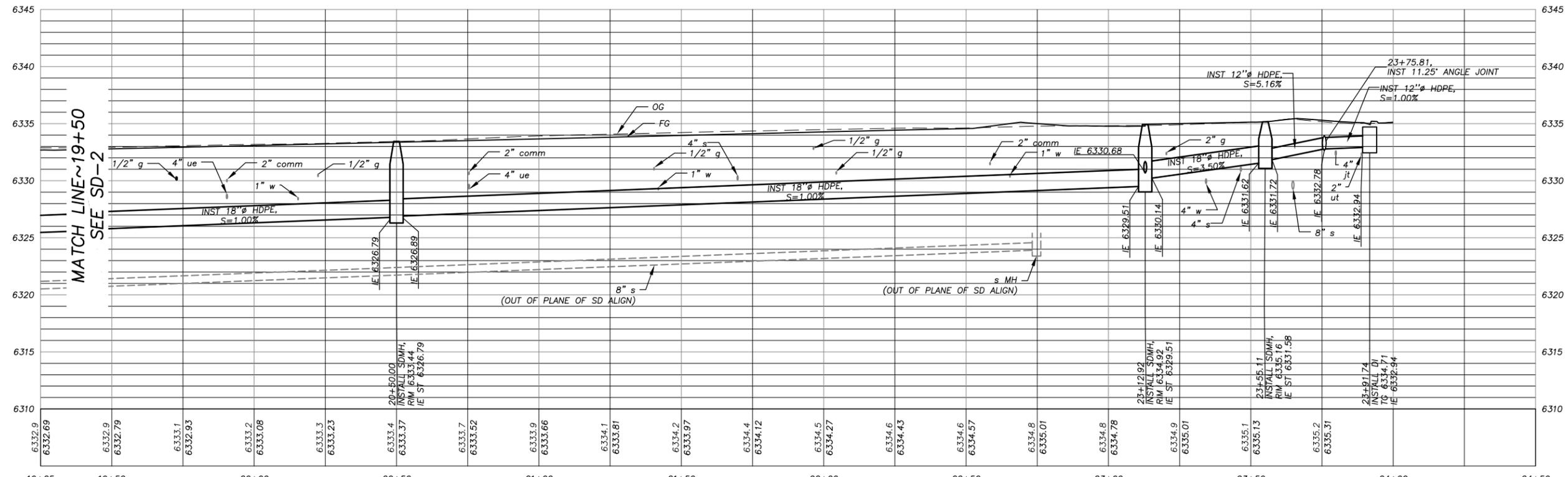
APACHE AVENUE PEDESTRIAN SAFETY AND
 CONNECTIVITY PROJECT
 STORM DRAIN STA 14+00 TO 19+50

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

Drawing name: \\CD\Users\TD-SJT-Engineering\Civil_3D\PROJECTS\95199\Engineering\MP\AN\APACHE.MXD
 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS



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



STORM DRAIN STA 19+50 TO 24+00

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

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 APRIL 2, 2024

DESIGNED: DMG
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COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT SERVICES
 TRANSPORTATION DEPARTMENT

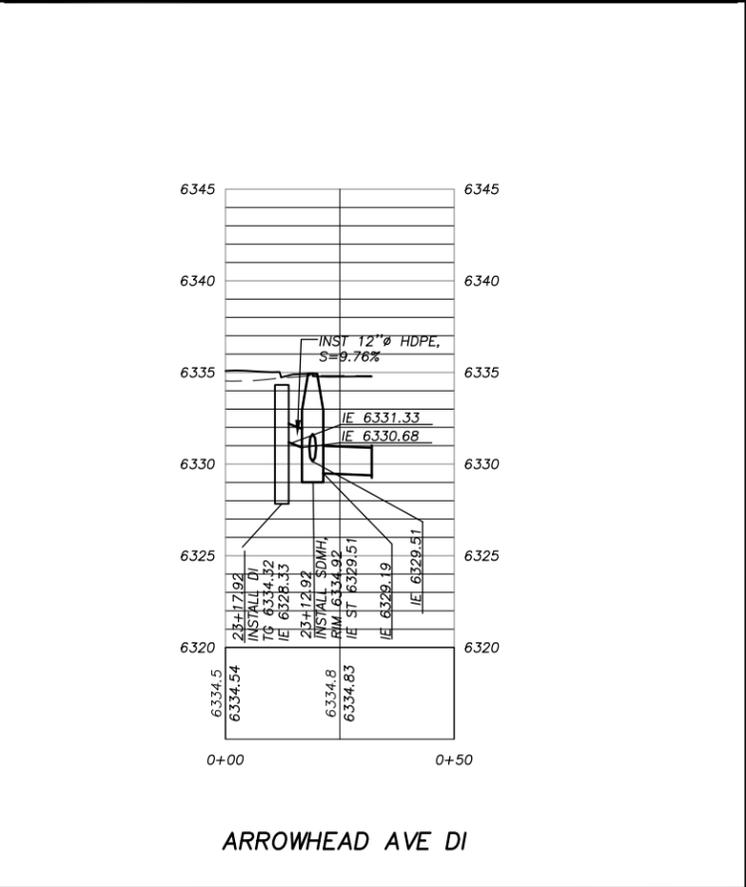
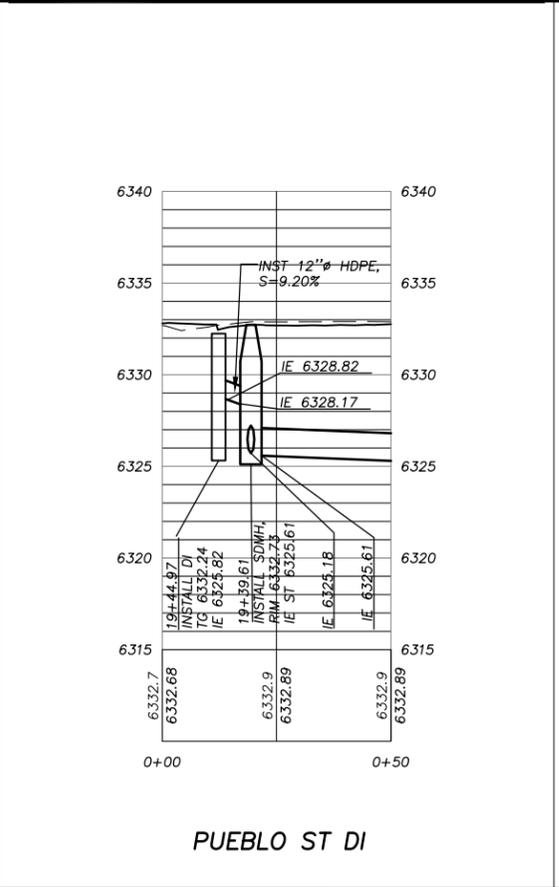
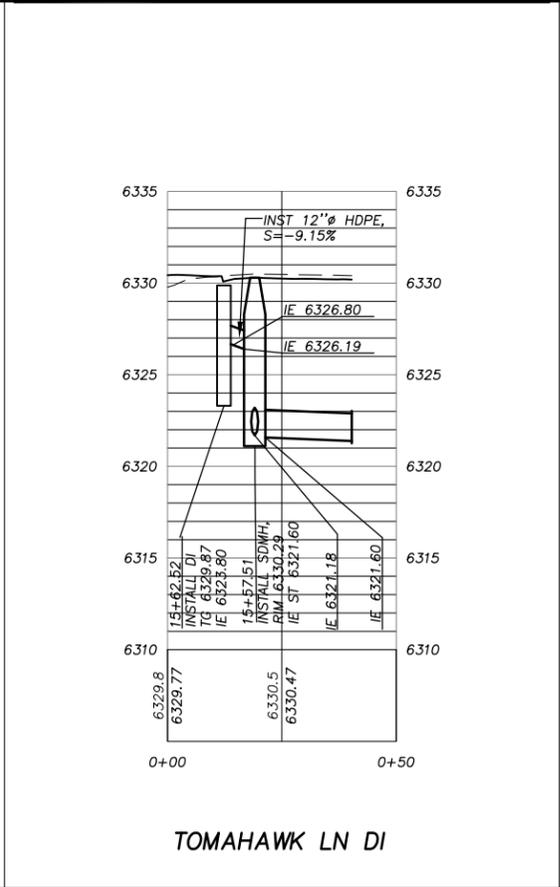
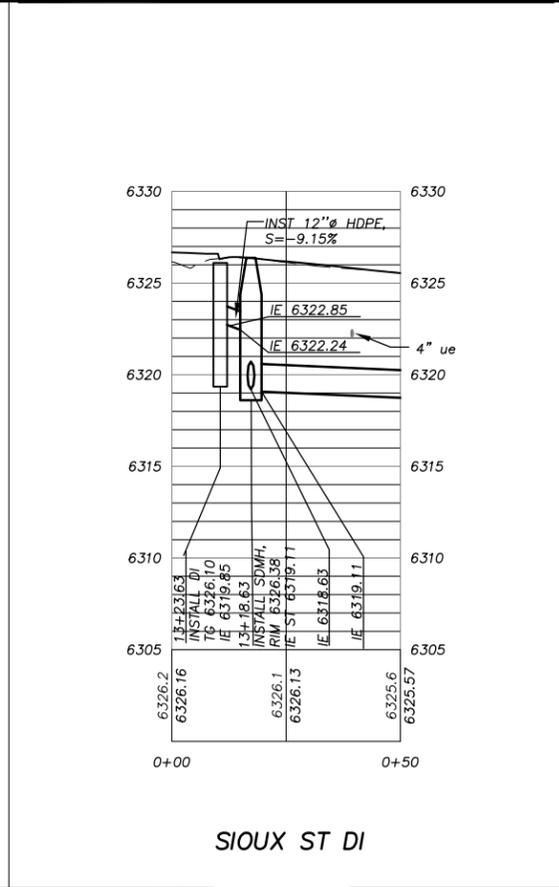
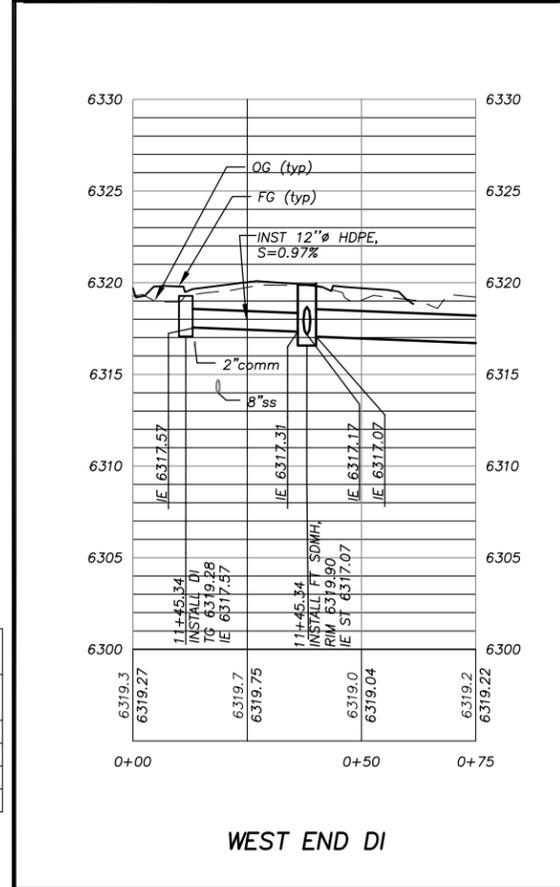
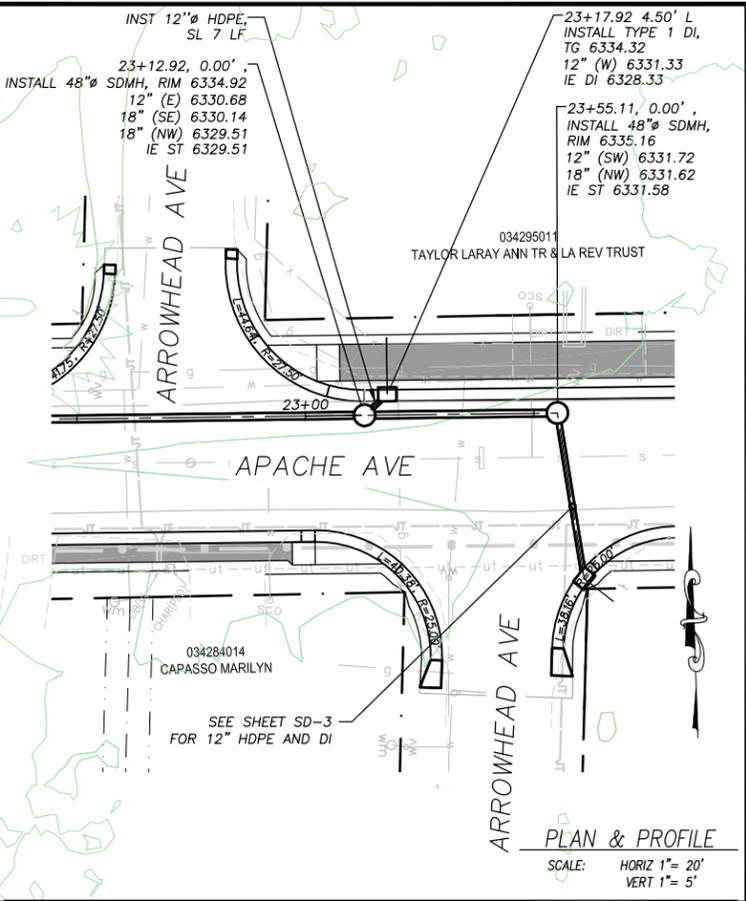
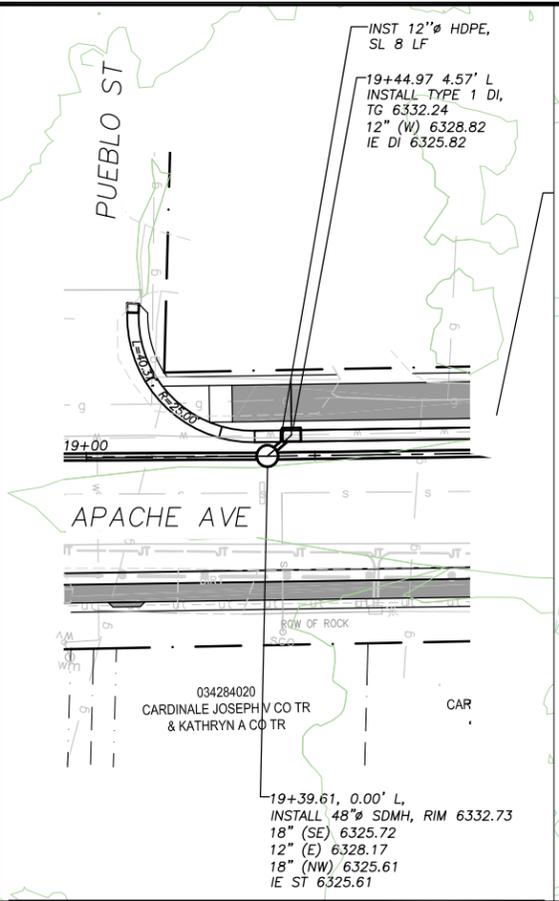
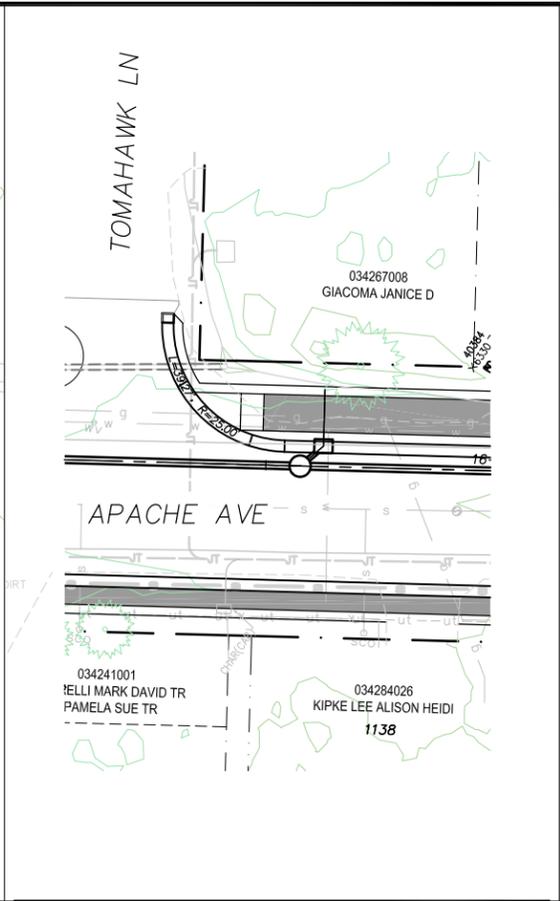
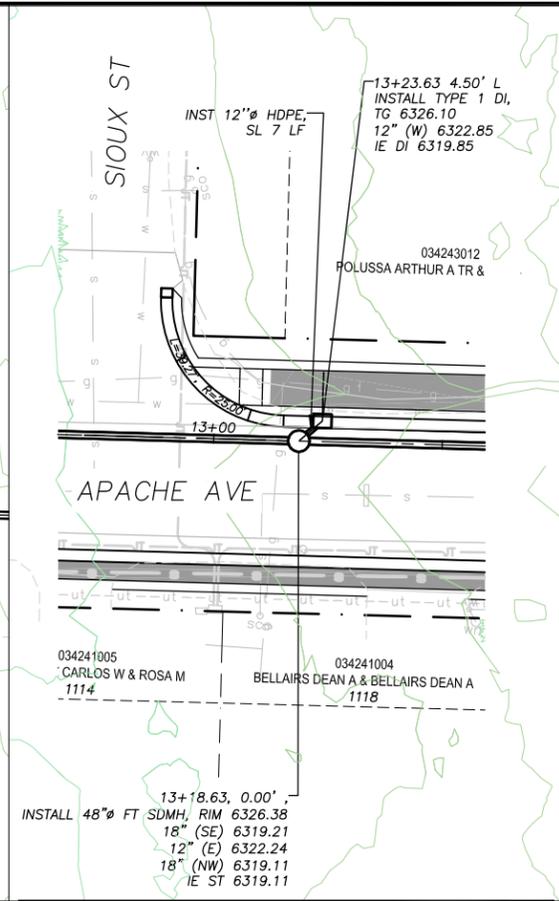
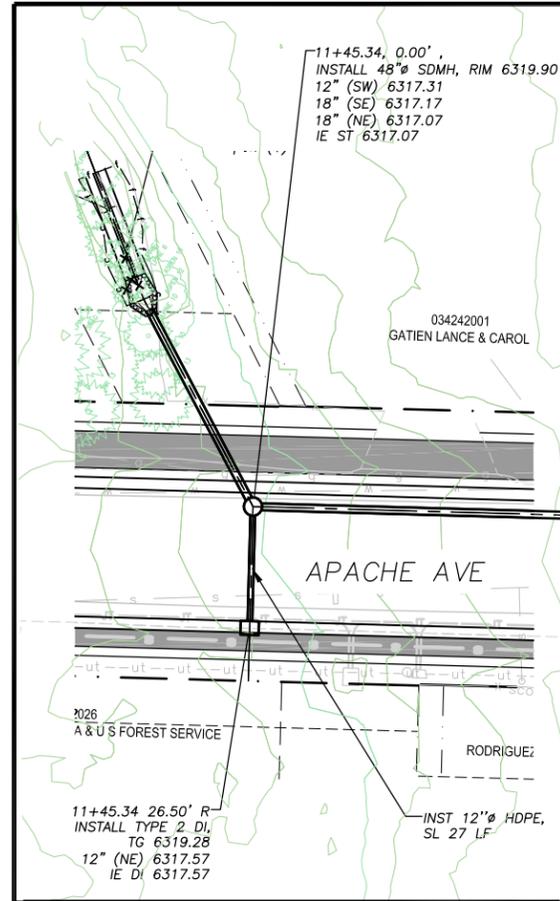
APACHE AVENUE PEDESTRIAN SAFETY AND
 CONNECTIVITY PROJECT
 STORM DRAIN STA 19+50 TO 24+00

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

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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

2



REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

[Signature]

REGISTERED CIVIL ENGINEER

APRIL 2, 2024

DATE:

DESIGNED: DMG

DRAWN: DMG

CHECKED: DWK

DATE: 4/2024

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: \\D:\Users\TD-SJT-Engineering\Civil_3D\PROJECTS\95199\Engineering\MP\AV\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	414	1	1	3				
TOTALS		92	1259	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: APRIL 2, 2024

DESIGNED: DMG
 DRAWN: DMG
 CHECKED: DWK
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 ROAD NUMBER: ---

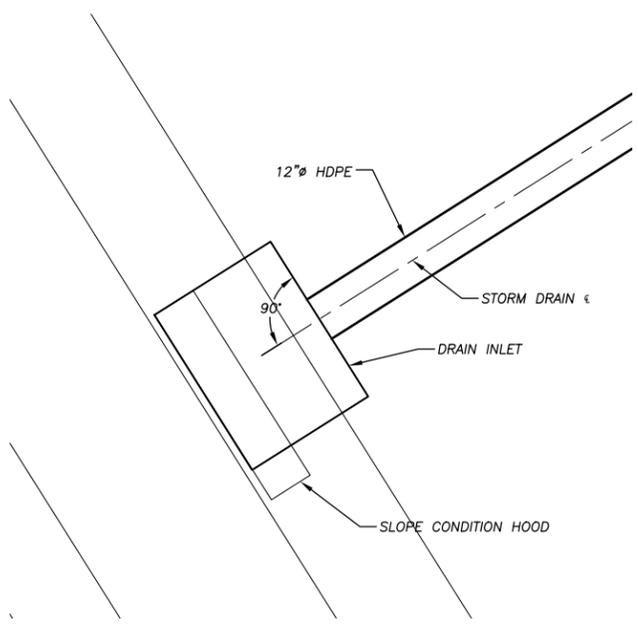


COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT SERVICES
 TRANSPORTATION DEPARTMENT

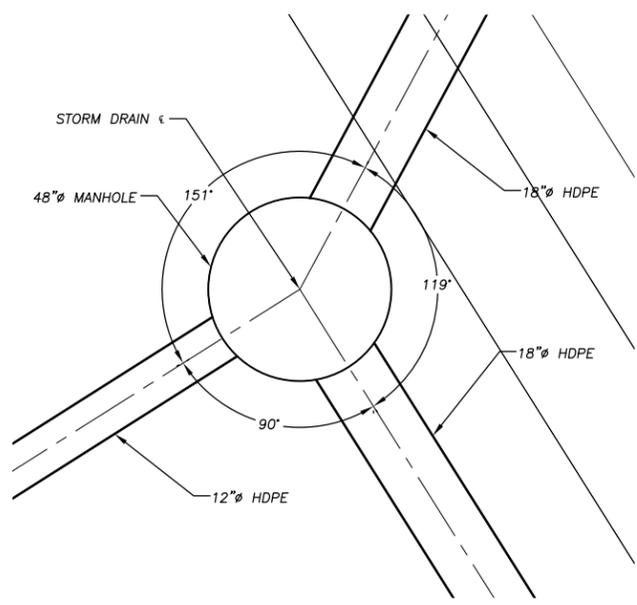
APACHE AVENUE PEDESTRIAN SAFETY AND
 CONNECTIVITY PROJECT
 P AND SD SHEET QUANTITIES

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

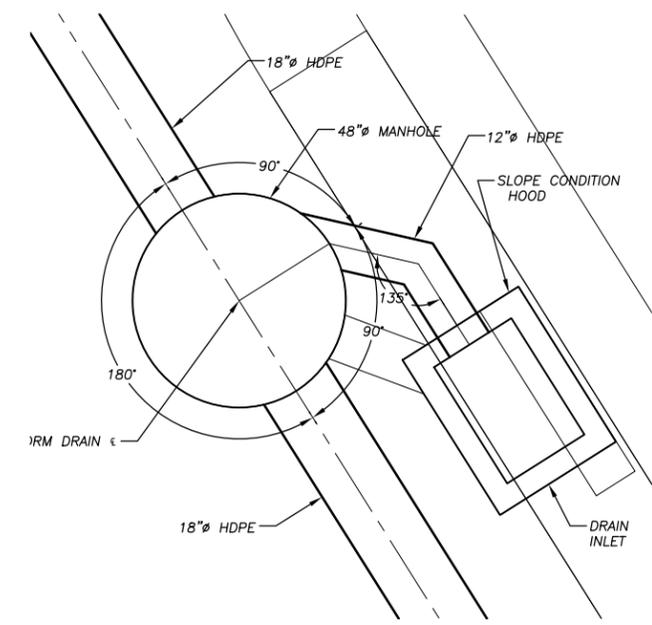
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 FOR REDUCED PLANS
 REVISION
 NUMBER DATE DESCRIPTION BY



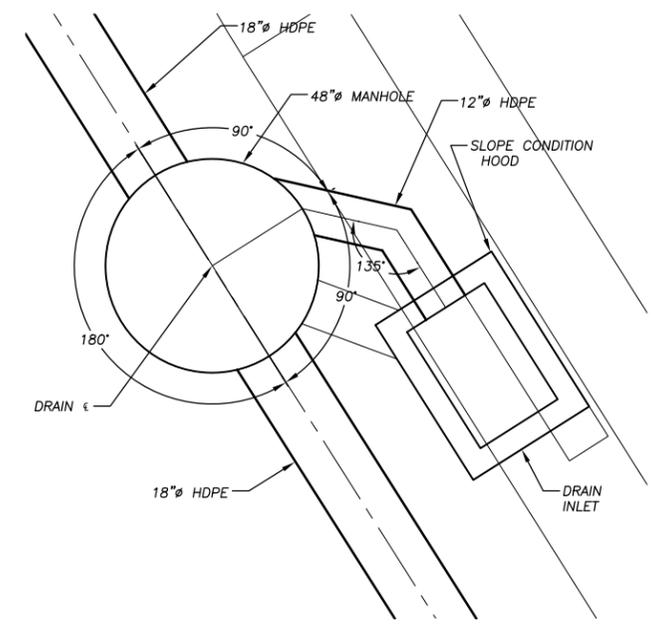
DRAIN INLET AT APACHE 11+45.34 (SHEET SD-1)



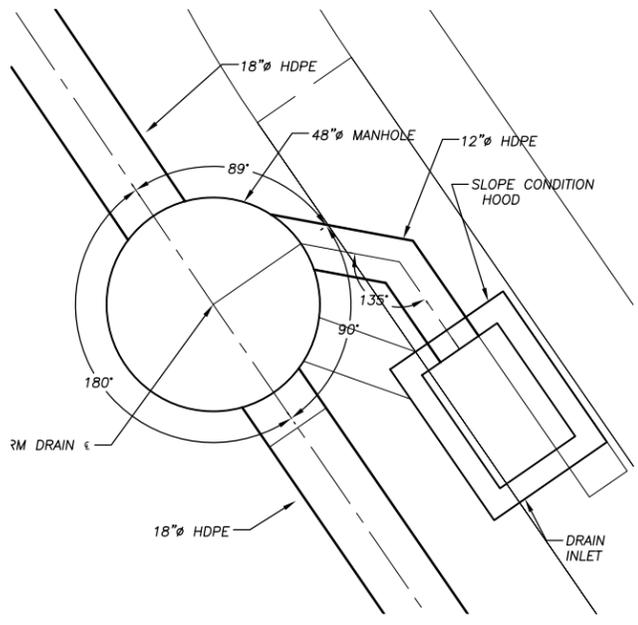
48"Ø MANHOLE AT APACHE 11+45.34 (SHEET SD-1)



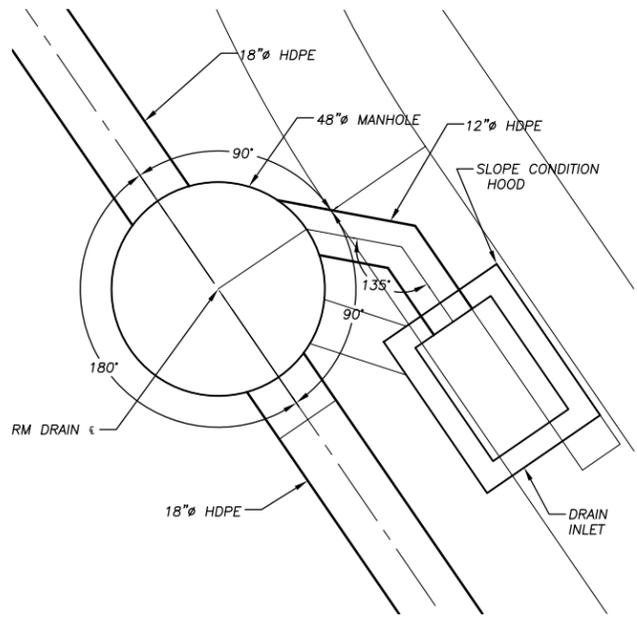
**DRAIN INLET AT APACHE 13+23.63 AND
48"Ø MANHOLE AT APACHE 13+18.63 (SHEET SD-1)
APACHE AVE & SIOUX ST**



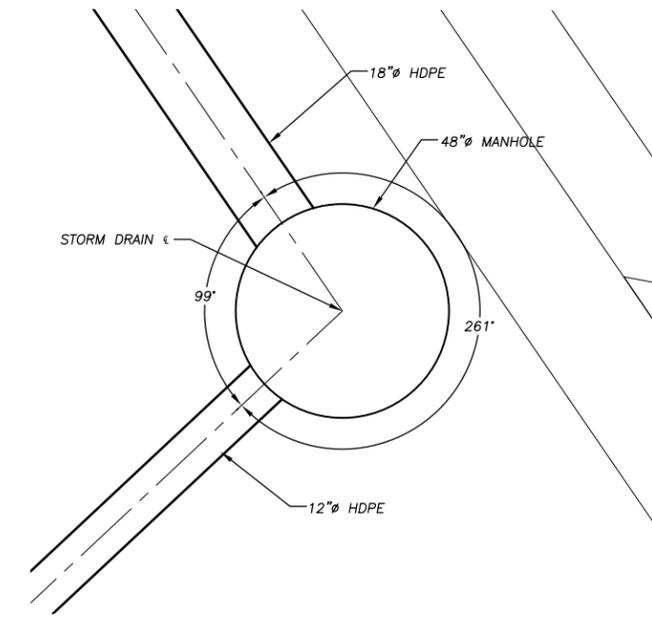
**DRAIN INLET AT APACHE 15+62.52 AND
48"Ø MANHOLE AT APACHE 15+57.51 (SHEET SD-2)
APACHE AVE & TOMAHAWK LN**



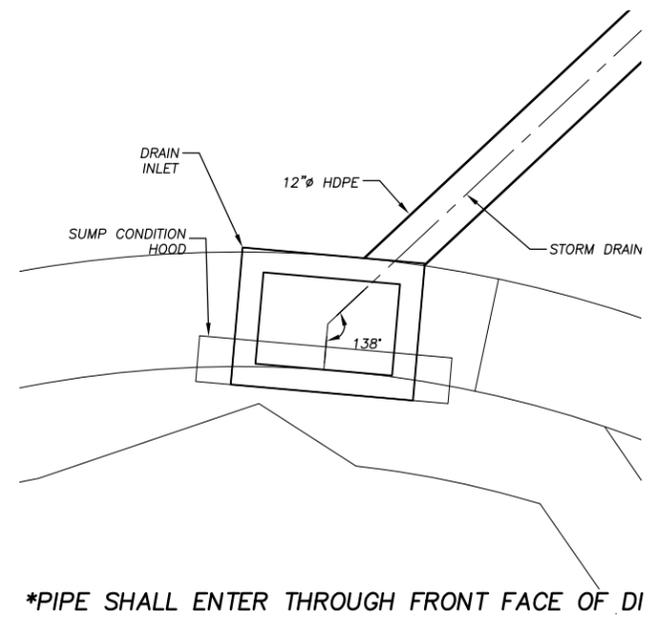
**DRAIN INLET AT APACHE 19+44.97 AND
48"Ø MANHOLE AT APACHE 19+39.61 (SHEET SD-2)
APACHE AVE & PUEBLO ST**



**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**



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
APRIL 2, 2024
 DATE:

DESIGNED: DMG
 DRAWN: DMG
 CHECKED: DWK
 DATE: 4/2024
 ROAD NUMBER: ---



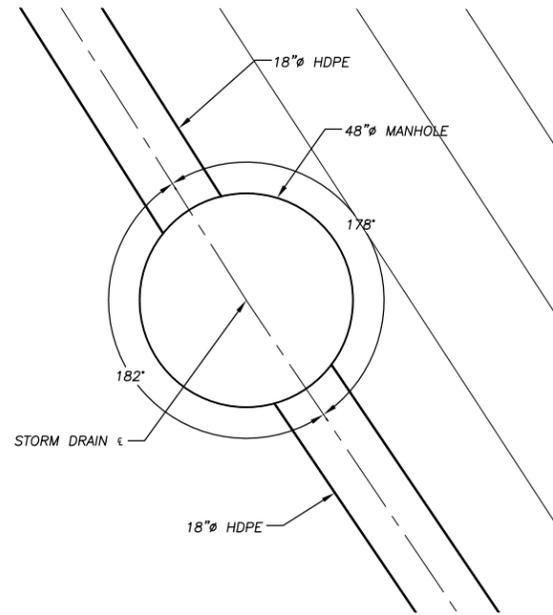
**COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT SERVICES
TRANSPORTATION DEPARTMENT**

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

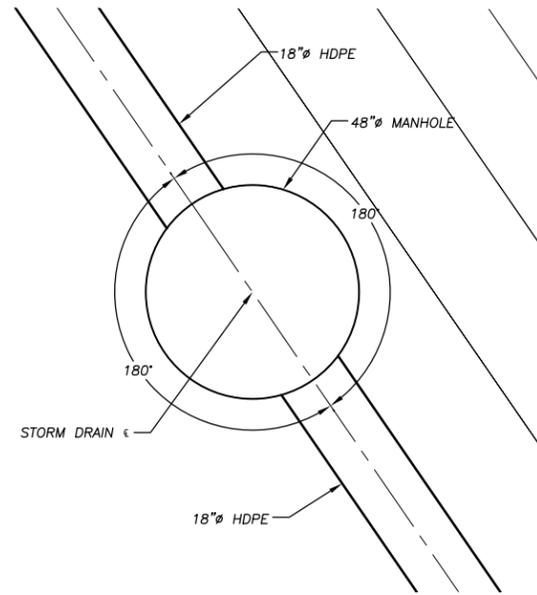
SHEET
HC-1
 19 OF 33
 CONTRACT NO.
7922
 CIP No.
95199

Drawing name: \\D:\Users\TD-SJT-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



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: **APRIL 2, 2024**

DESIGNED: DMG	DRAWN: DMG
CHECKED: DWK	DATE: 4/2024
ROAD NUMBER: ---	

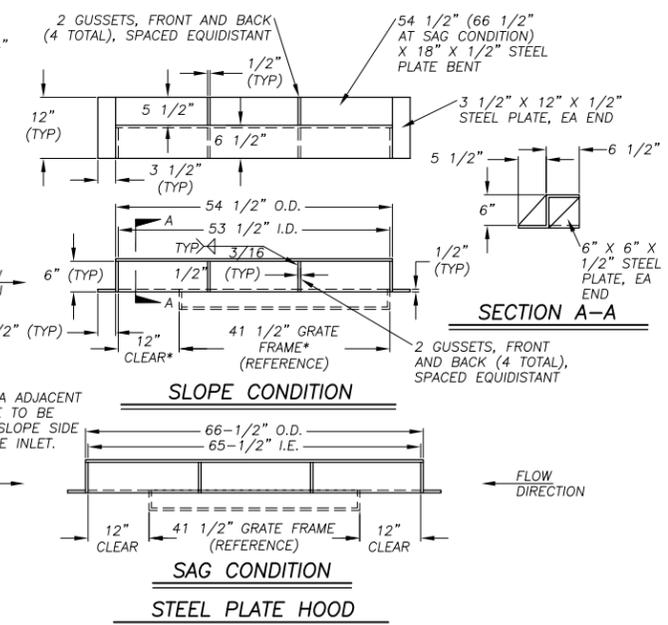
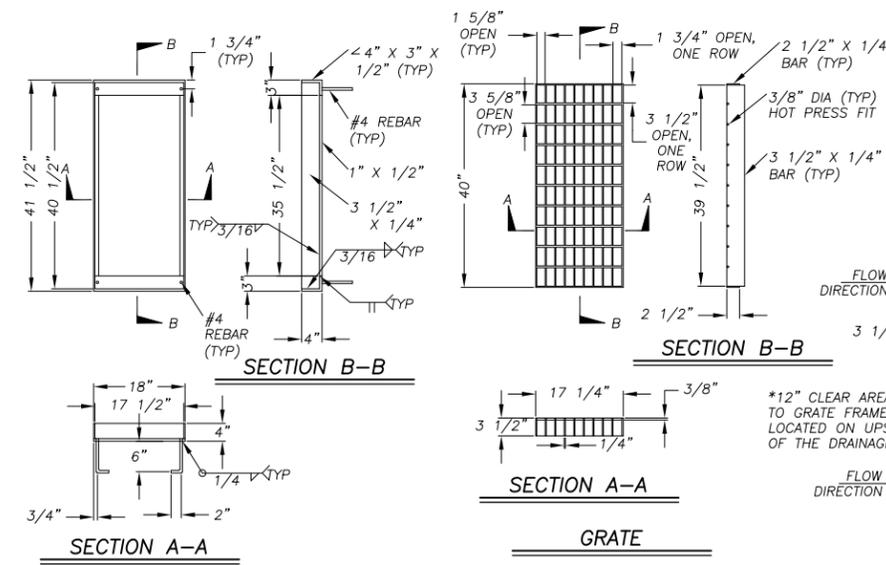
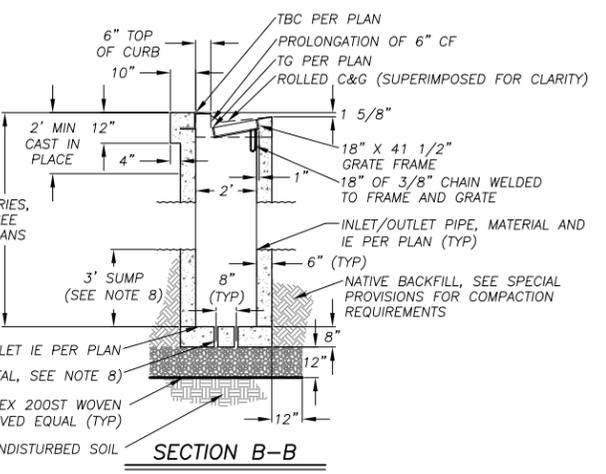
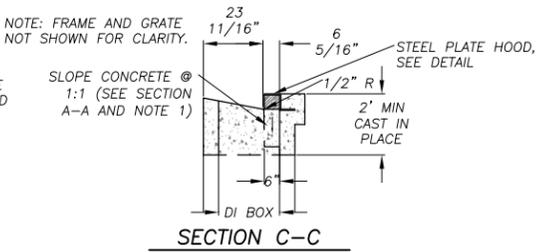
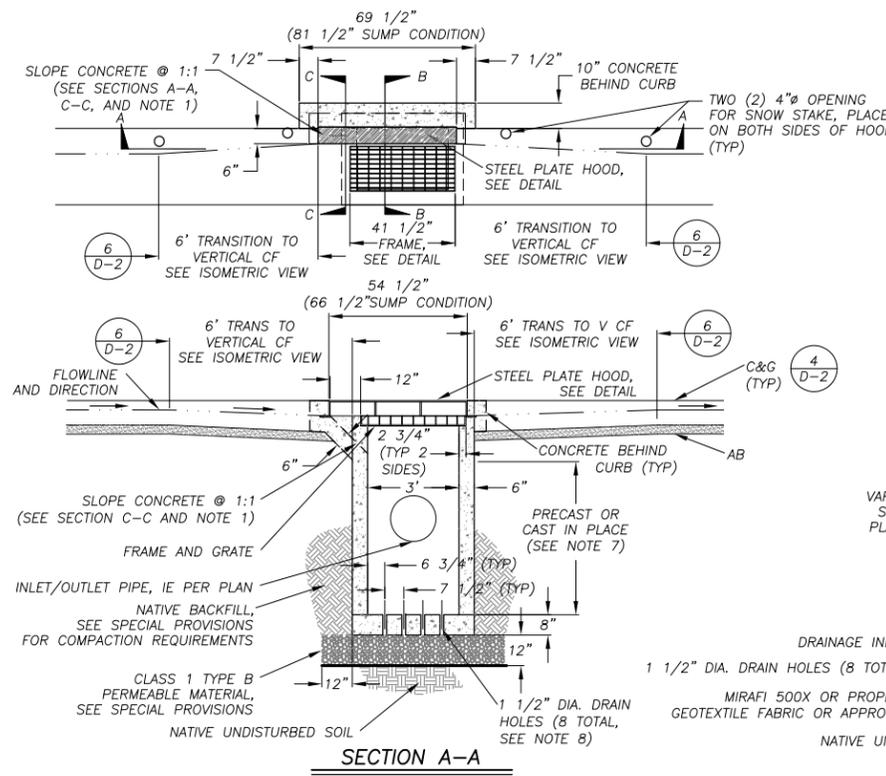


COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT SERVICES
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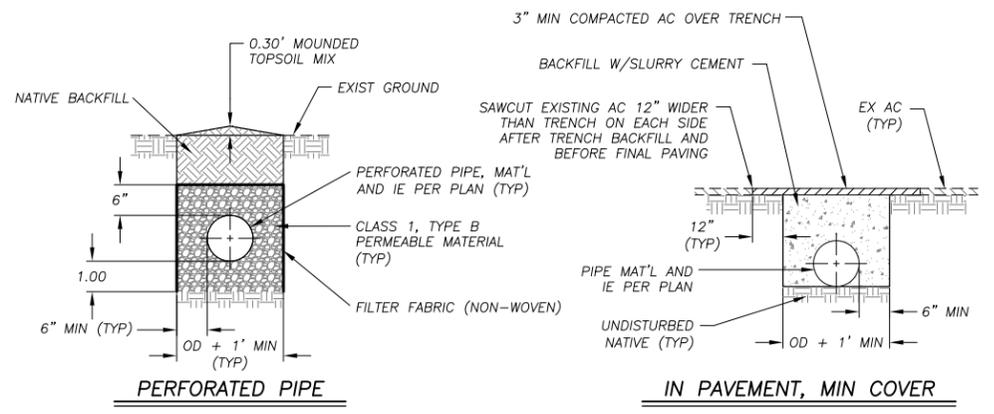
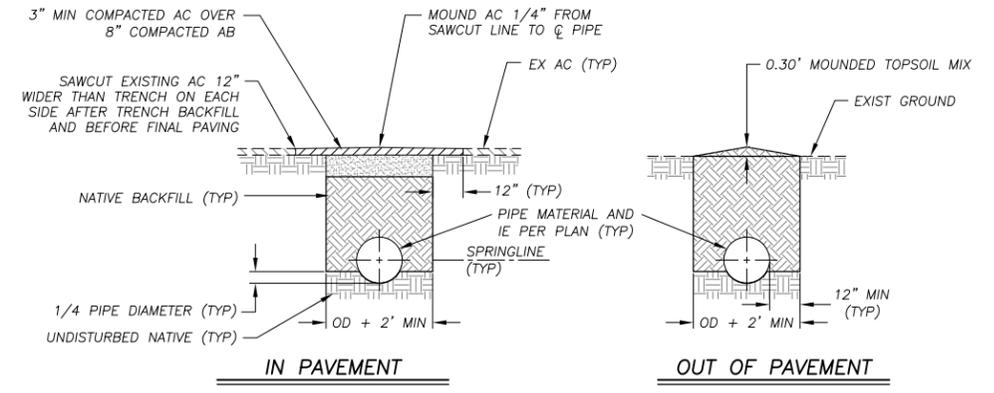
APACHE AVENUE PEDESTRIAN SAFETY AND
 CONNECTIVITY PROJECT
 HORIZONTAL CONTROL

SHEET
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7922
 CIP No.
95199

Drawing name: \\C:\Data\5151-EL-DORADO\Engineering\CIVIL\3D PROJECTS\95199\Engineering\WPLAN\APACHE DETAILS.dwg
2 ORIGINAL SCALE IS IN INCHES
FOR REDUCED PLANS

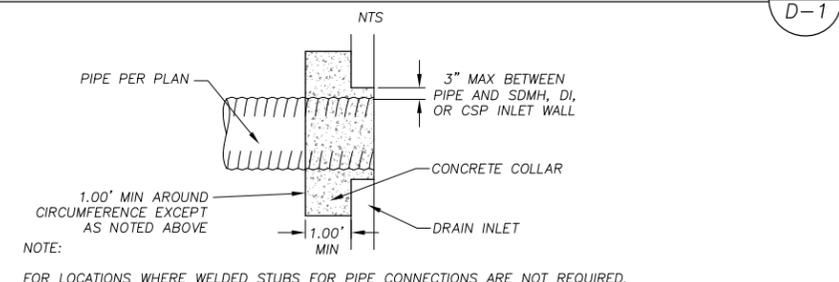


DRAINAGE INLET - TYPE 1
NTS
1
D-1

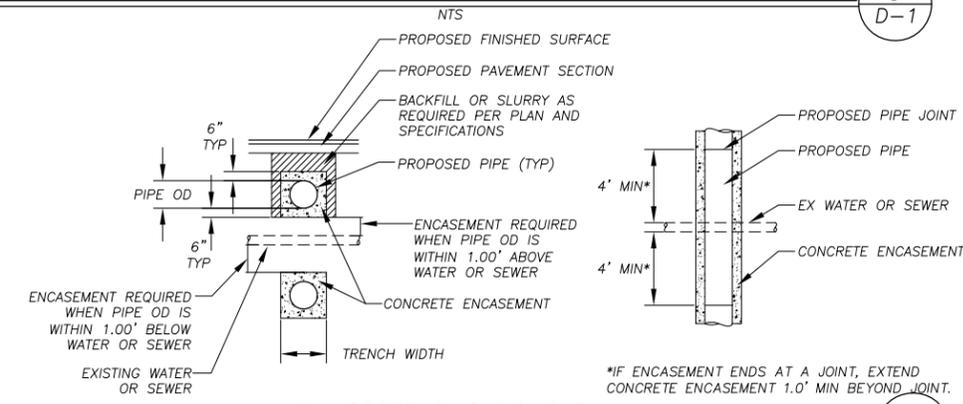


- NOTES:
- SEE SPECIAL PROVISIONS FOR LOCATIONS WHERE PIPE TRENCH BACKFILL SHALL BE SLURRY CEMENT.
 - FOR REMOVAL OF EXISTING PIPE IN PAVEMENT: PRIOR TO PAVING, SAWCUT THE EXISTING AC PAVEMENT 12" WIDER THAN THE TRENCH ON EACH SIDE AND EXCAVATE AS REQUIRED TO ACCOMMODATE THE NEW PAVEMENT SECTION.

PIPE TRENCH
2
D-1



CONCRETE COLLAR
3
D-1



CONCRETE ENCASEMENT
4
D-1

REVISION	NUMBER	DATE	DESCRIPTION	BY



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[Signature]
REGISTERED CIVIL ENGINEER
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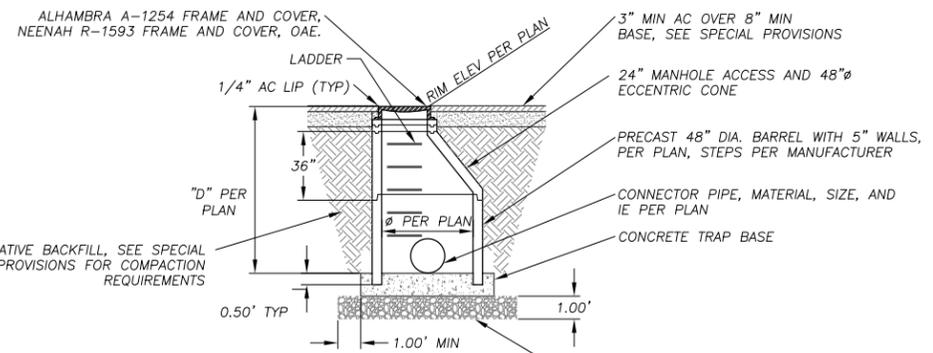


COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT SERVICES
DEPARTMENT OF TRANSPORTATION

APACHE AVENUE PEDESTRIAN SAFETY AND
CONNECTIVITY PROJECT
DETAIL SHEET

SHEET
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CONTRACT NO.
7922
CIP No.
95199

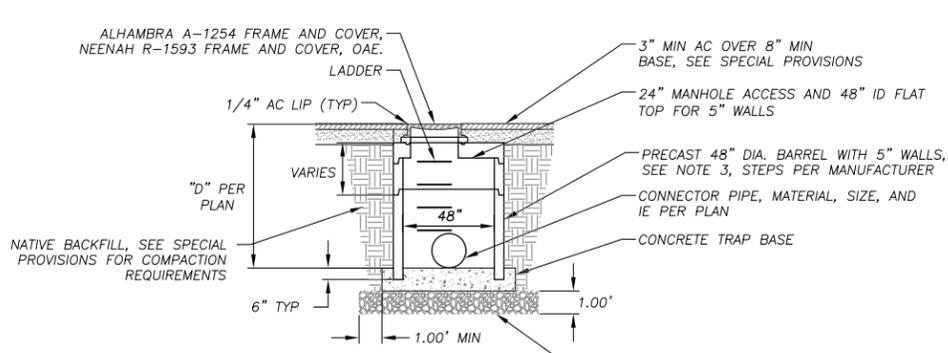
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ORIGINAL SCALE IS IN INCHES
FOR REDUCED PLANS



- ALHAMBRA A-1254 FRAME AND COVER, NEENAH R-1593 FRAME AND COVER, OAE.
- 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 ACCOMODATE STORM DRAIN PIPES.

48" STORM DRAIN MANHOLE

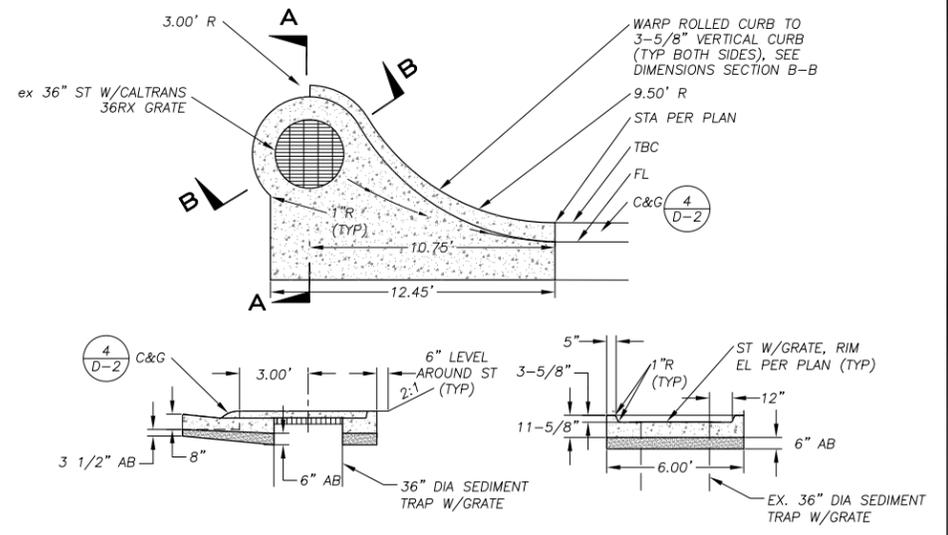
1
D-2



- ALHAMBRA A-1254 FRAME AND COVER, NEENAH R-1593 FRAME AND COVER, OAE.
- 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.

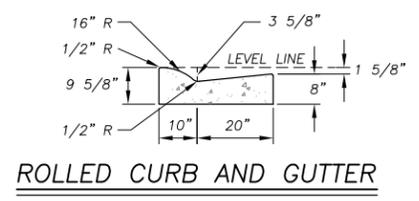
48" STORM DRAIN MANHOLE W/ FLAT TOP

2
D-2

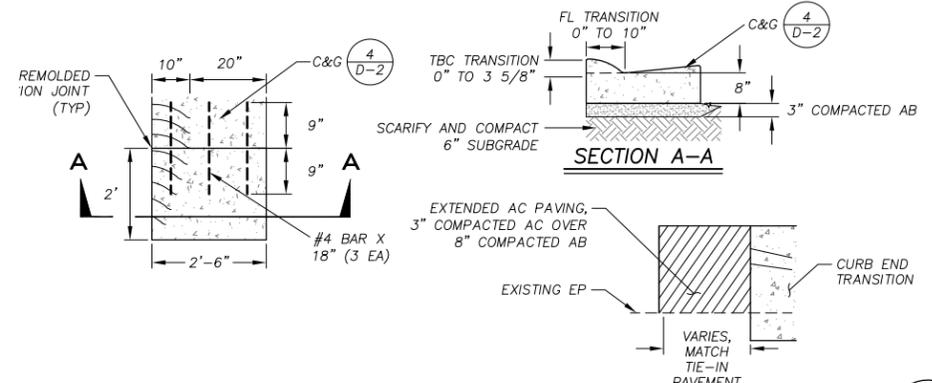


CURB OPENING

3
D-2

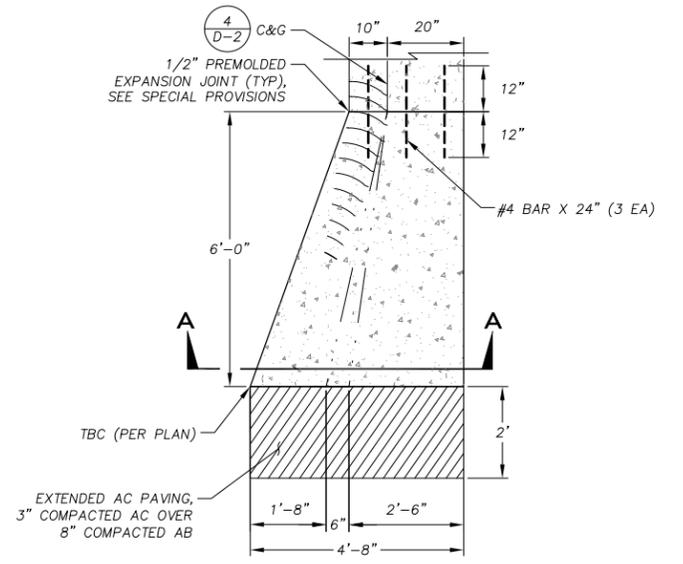


ROLLED CURB AND GUTTER



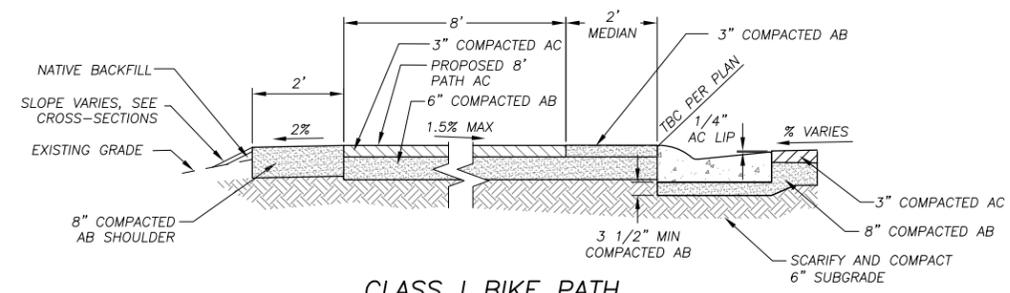
TYPE 1 CURB END TRANSITION

5
D-2

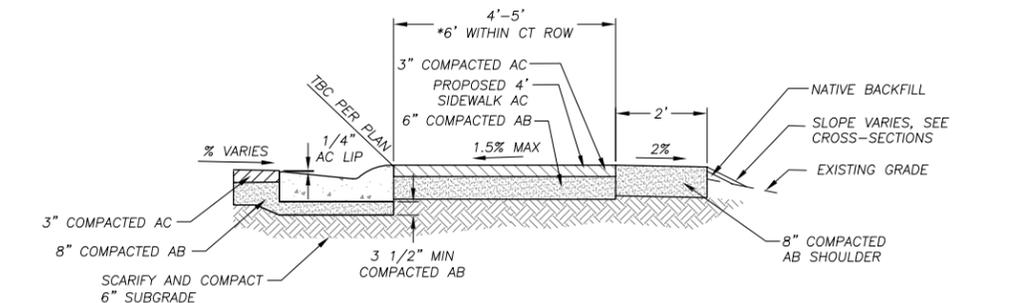


TYPE 2 CURB END TRANSITION

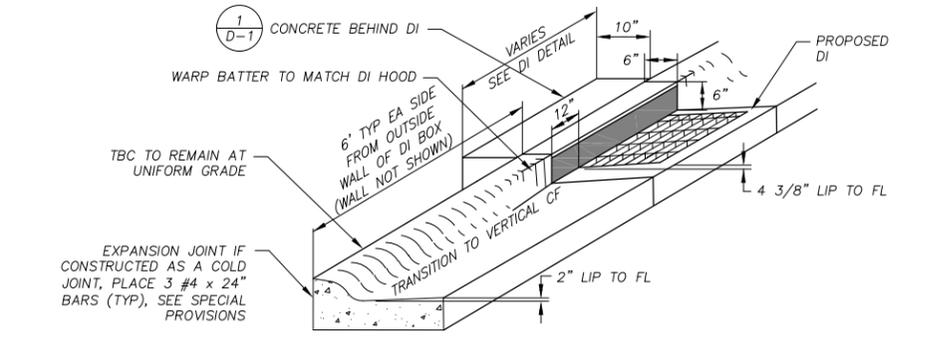
7
D-2



CLASS I BIKE PATH

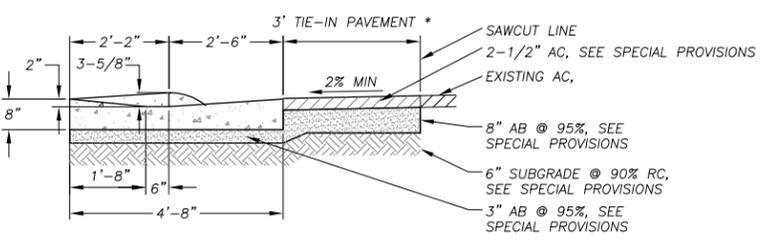


AC SIDEWALK



C&G TO DI

6
D-2



TYPE 2 CURB END TRANSITION

95199

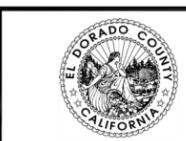
REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
APRIL 2, 2024
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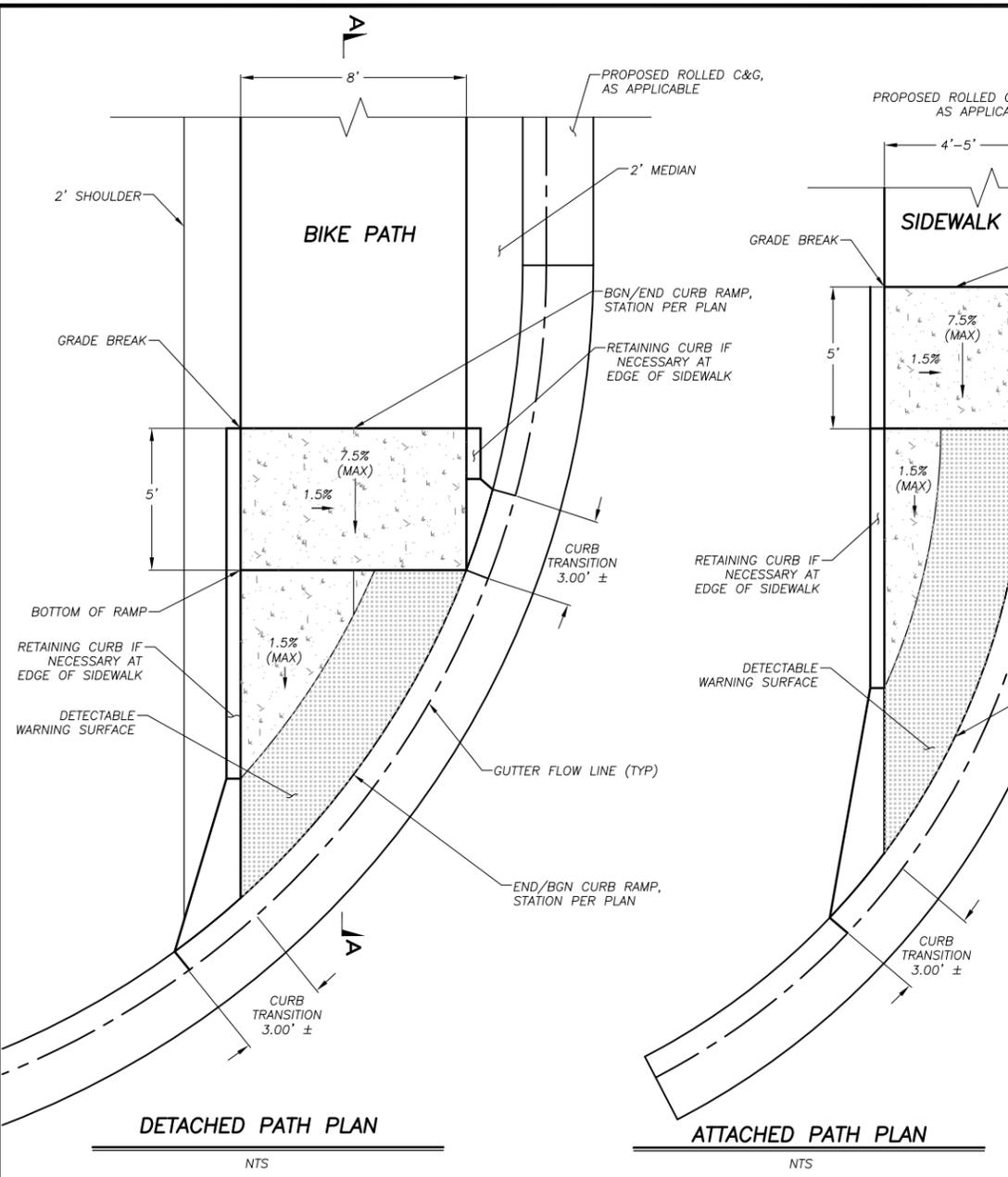
COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT SERVICES
 DEPARTMENT OF TRANSPORTATION

APACHE AVENUE PEDESTRIAN SAFETY AND
 CONNECTIVITY PROJECT
 DETAIL SHEET

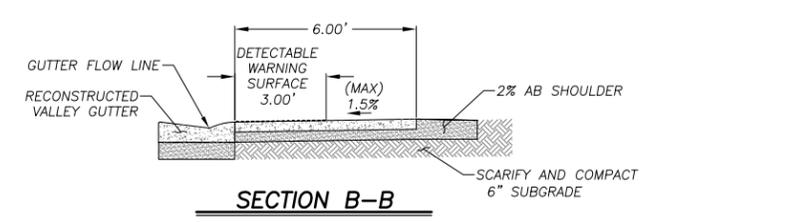
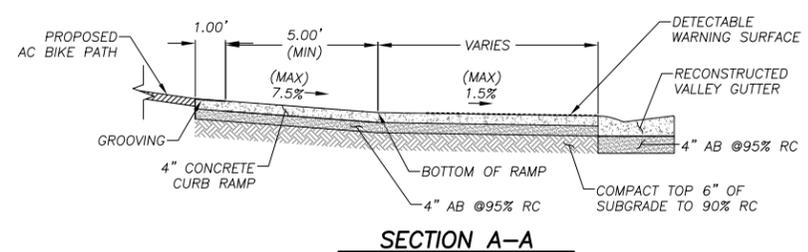
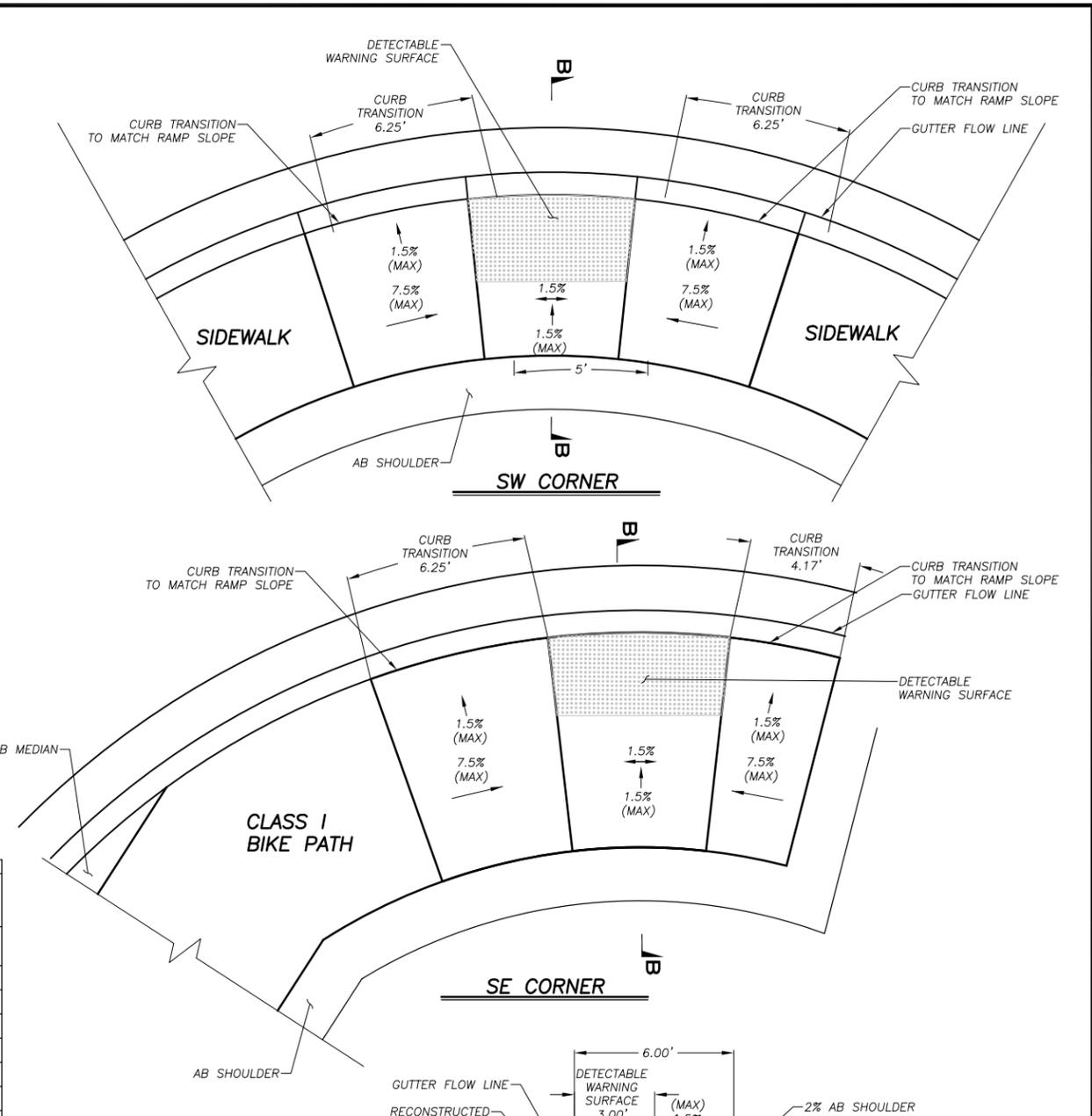
SHEET
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 CONTRACT NO.
7922
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95199

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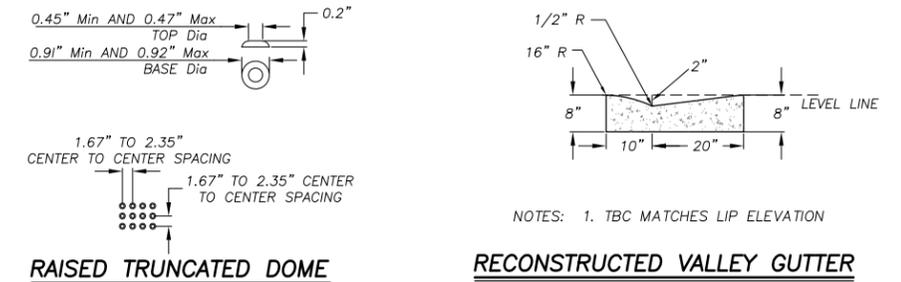
ORIGINAL SCALE IS IN INCHES
FOR REDUCED PLANS



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
APRIL 2, 2024
DATE:

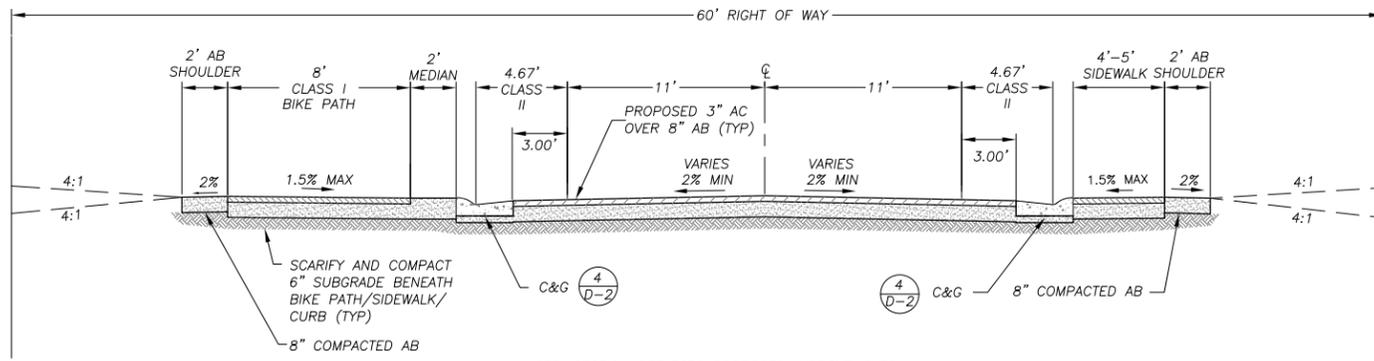
DESIGNED: DMG
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DATE: 4/2024
ROAD NUMBER: ---



COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT SERVICES
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APACHE AVENUE PEDESTRIAN SAFETY AND
CONNECTIVITY PROJECT
DETAIL SHEET

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CONTRACT NO.
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95199

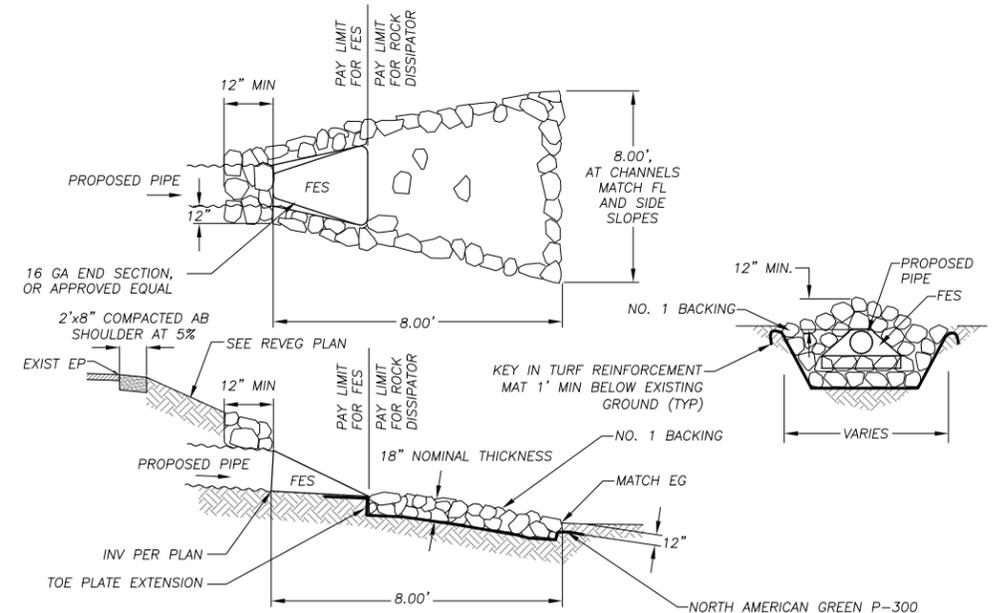


NOTE: SECTION REFLECTS PROPOSED IMPROVEMENTS

TYPICAL APACHE AVE ROADWAY SECTION - EDC ROW

NTS

1
D-4

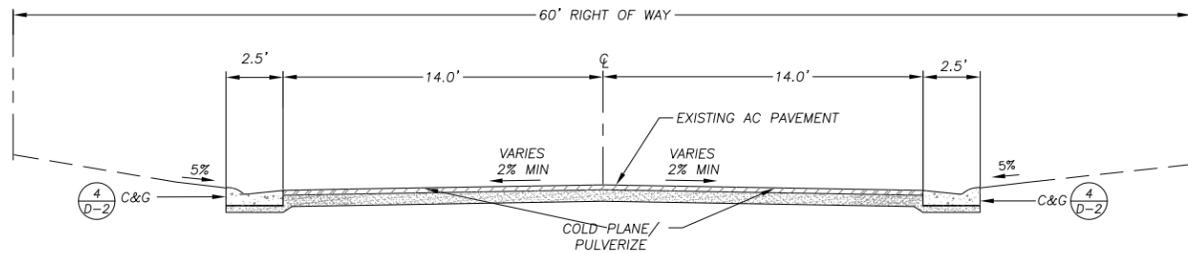


NOTES:
1. ALL FES SHALL BE GALVANIZED.

ROCK DISSIPATOR

NTS

4
D-4

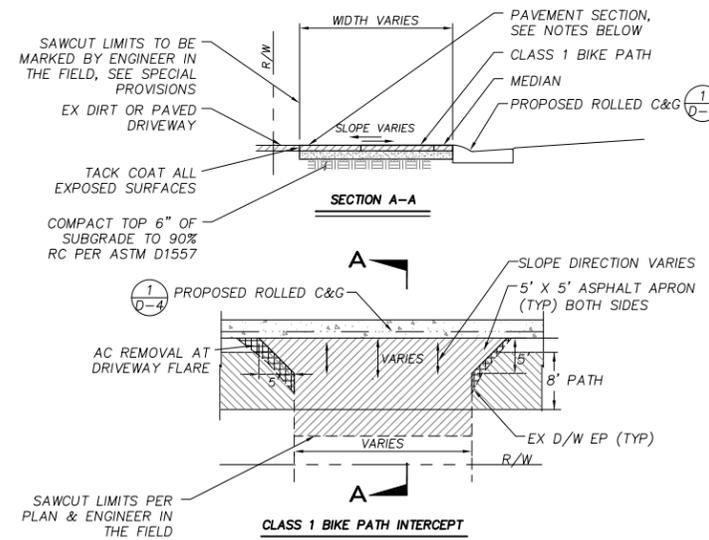


NOTE: 1. THIS IS A TYPICAL COUNTY ROAD SECTION AND MAY NOT REFLECT ACTUAL CONDITIONS OF THE ROADWAYS WITHIN THE PROJECT AREA. SEE CROSS SECTION SHEETS FOR PROPOSED SECTIONS.
2. COLD PLANE / PULVERIZE EXISTING AC PAVEMENT TO ALLOW FOR PLACEMENT OF 3" OF HMA FOR ROADWAY TO MEET DESIGN PROFILE GRADES.
3. IN SECTIONS WHERE AC PAVEMENT REMOVAL WILL INCLUDE BASE MATERIAL REMOVAL, PULVERIZATION AND COMPACTION AT 95% RELATIVE COMPACTION PREFERRED TO CREATE 8" AB SECTION

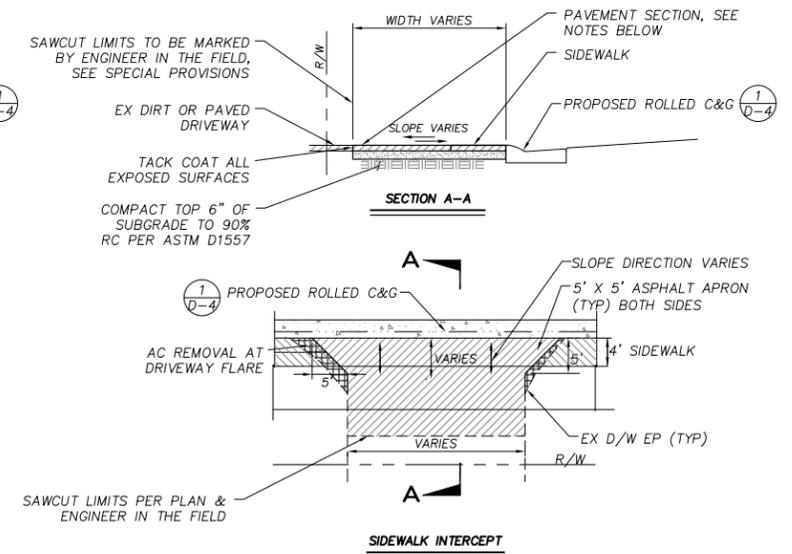
COLD PLANE / PULVERIZE

NTS

2
D-4



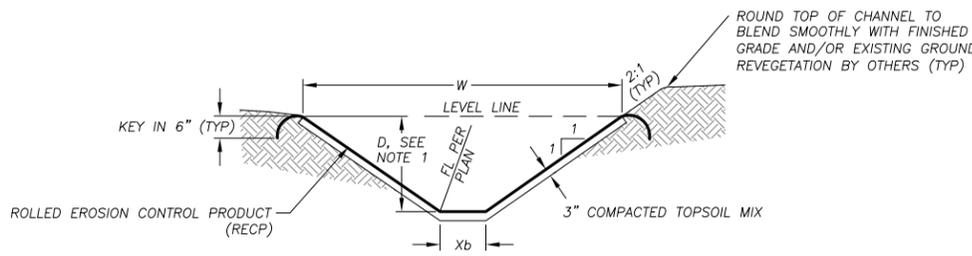
NOTES:
1. DRIVEWAY PAVEMENT REPLACEMENT TO BE 2 1/2" AC OVER 4" AB @ 95% RC.
2. MATCH WIDTH OF EXISTING DRIVEWAY UNLESS NOTED OTHERWISE ON PLANS.
3. FOR AREAS IDENTIFIED AS NEW DRIVEWAY ENCROACHMENT, PAVEMENT WIDTH WILL BE 10' MAX.
4. THE ENGINEER SHALL MARK THE SAWCUT LIMITS AT EACH DRIVEWAY.
5. DRIVEWAY 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.



DRIVEWAY R&R

NTS

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

NTS

3
D-4

Drawing name: \\\CDATA\5151-Engineering\CIVIL_3D_PROJECTS\95199\Engineering\PLAN\APACHE_DETAIL.dwg

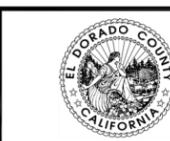
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
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COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT SERVICES
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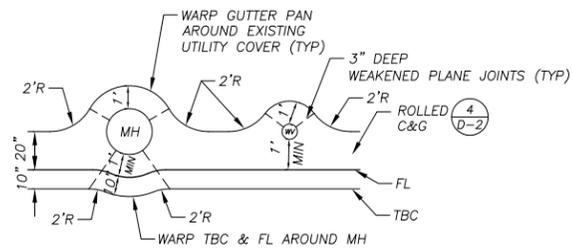
APACHE AVENUE PEDESTRIAN SAFETY AND
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CONTRACT NO.
7922
CIP No.
95199

Drawing name: \\C:\Data\515\11-SLT-Engineering\CIVIL_3D_PROJECTS\95199\Engineering\PLAN\APACHE_DETAIL.SWG

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

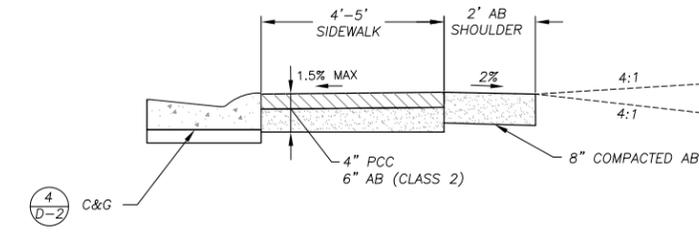
2
1
0



CURB AND GUTTER WARP AT UTILITY COVERS

NTS

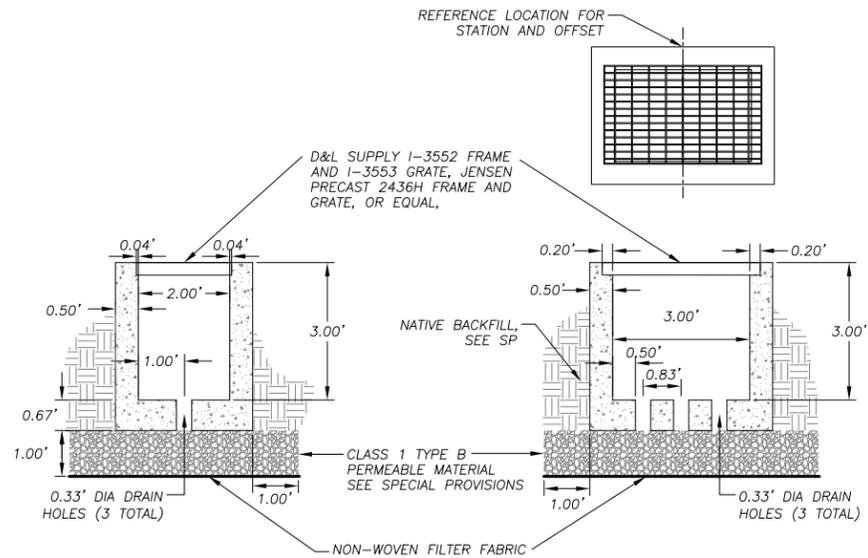
1
D-5



CONCRETE SIDEWALK

NTS

3
D-5



DRAINAGE INLET - TYPE 2

NTS

2
D-5

REVISION	NUMBER	DATE	DESCRIPTION	BY



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 REGISTERED CIVIL ENGINEER
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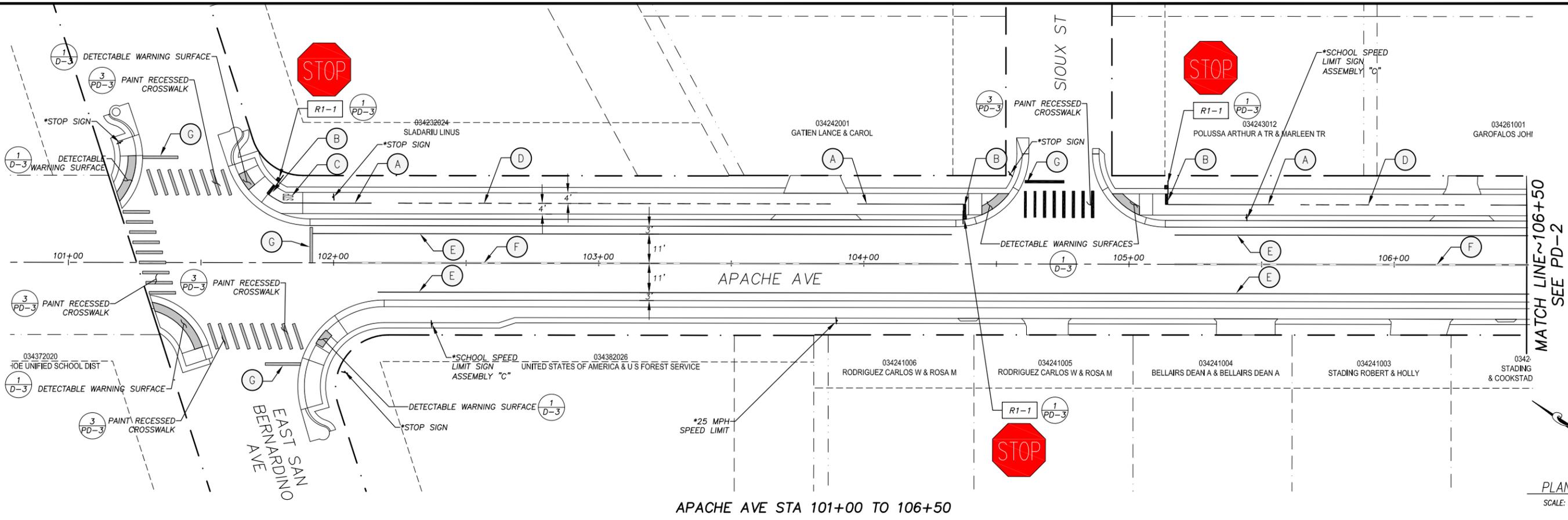


COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT SERVICES
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APACHE AVENUE PEDESTRIAN SAFETY AND
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7922
 CIP No.
95199

Drawing name: \\CD\Users\TD-SJT-Engineering\Civil_3D_PROJECTS\95199\Engineering\WPA\16 APACHE PD.dwg
ORIGINAL SCALE IS IN INCHES
FOR REDUCED PLANS



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
- *

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, TMECC 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
APRIL 2, 2024

DESIGNED: DMG
DRAWN: DMG
CHECKED: DWK
DATE: 4/2024
ROAD NUMBER: ---

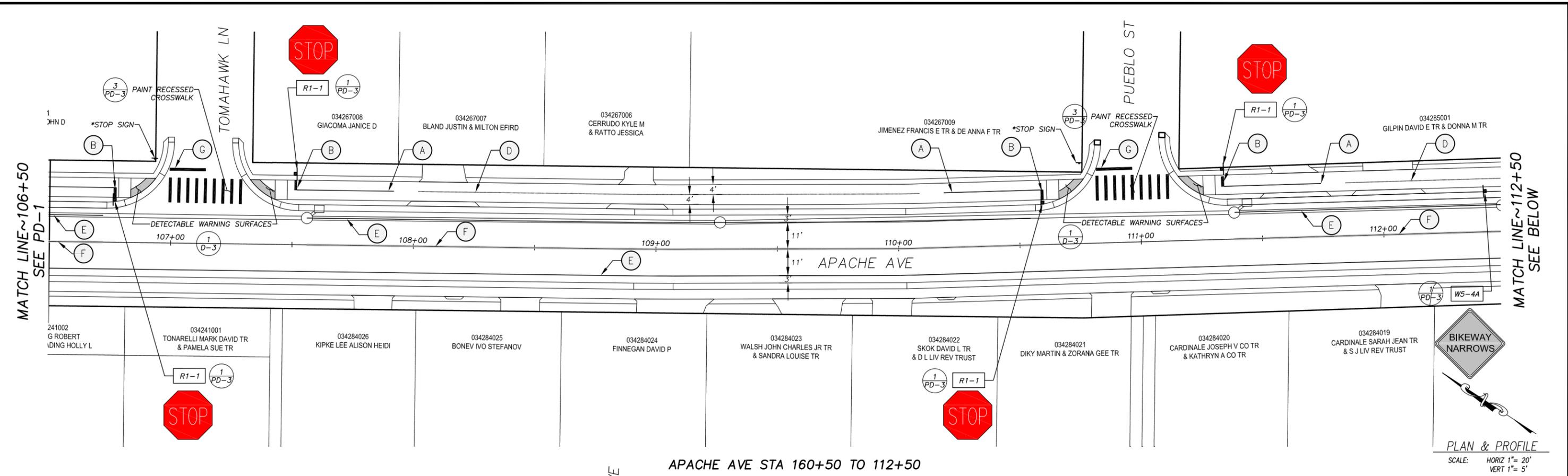


COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT SERVICES
TRANSPORTATION DEPARTMENT

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

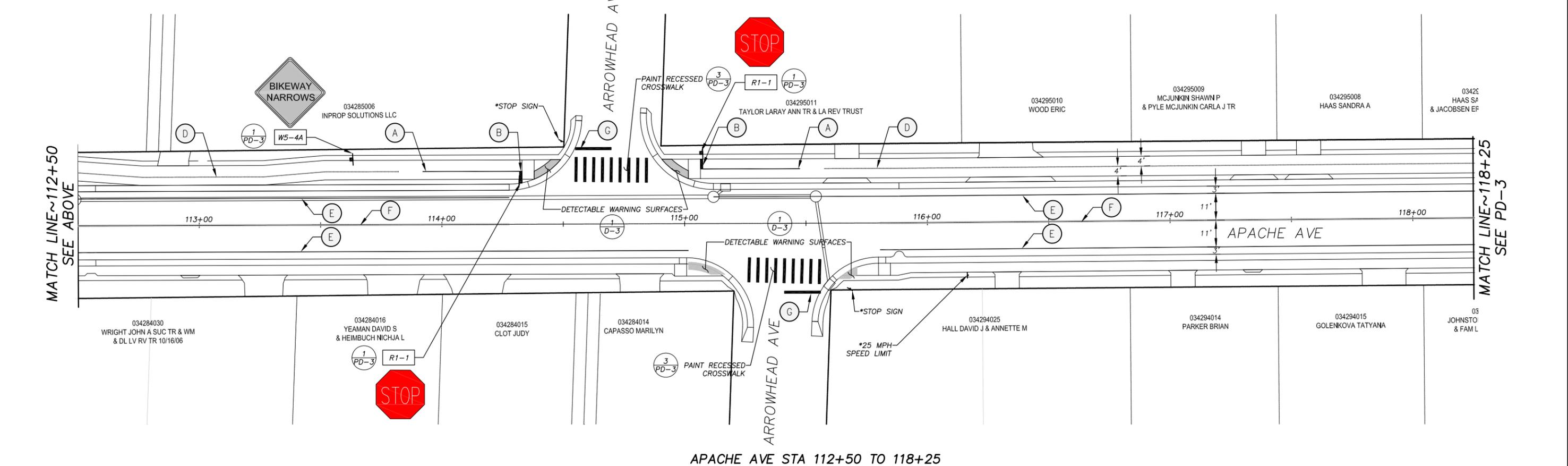
SHEET PD-1
26 OF 33
CONTRACT NO. 7922
CIP No. 95199

ORIGINAL SCALE IS IN INCHES
 2
 1
 0
 FOR REDUCED PLANS
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APACHE AVE STA 160+50 TO 112+50

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



APACHE AVE STA 112+50 TO 118+25

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

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APRIL 2, 2024
 DATE:

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 DRAWN: DMG
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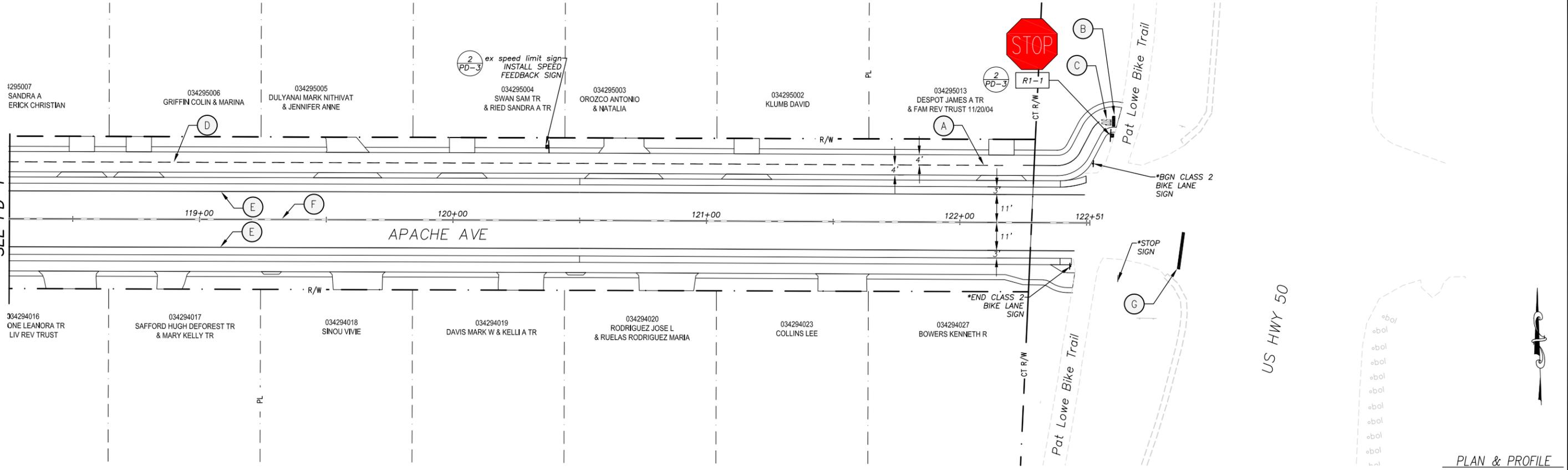


COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT SERVICES
 TRANSPORTATION DEPARTMENT

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

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

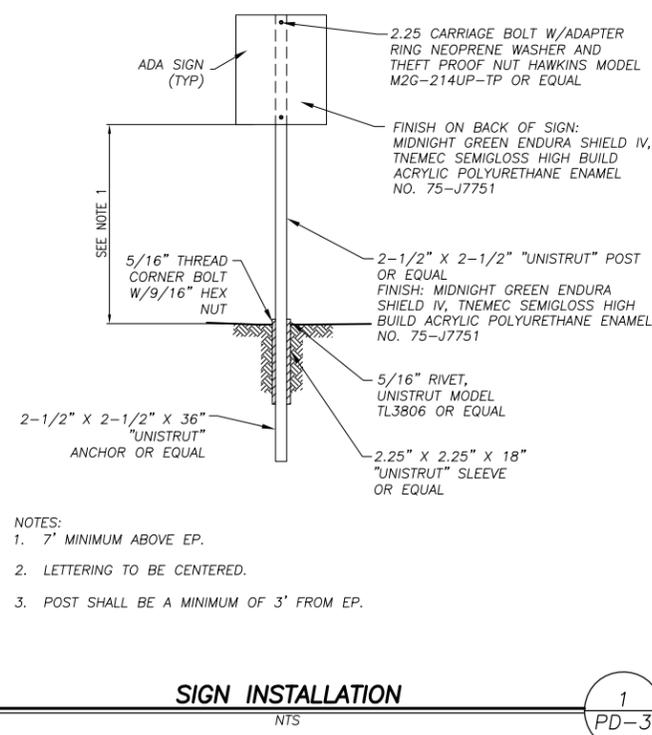
MATCH LINE ~ 118+25
SEE PD-1



APACHE AVE STA 118+25 TO 122+51

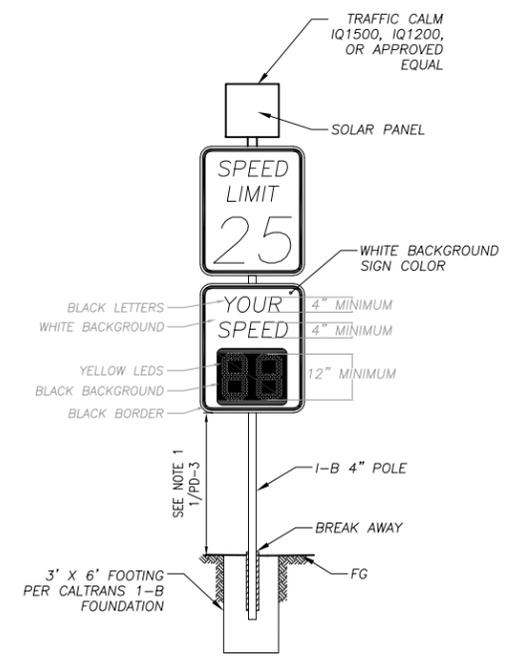
PLAN & PROFILE
SCALE: HORIZ 1" = 20'
VERT 1" = 5'

DRAWING NAME: \\CD\Users\TD-SJT-Engineering\Civil_3D_PROJECTS\95199\Engineering\WPLAN\16 APACHE PD.dwg
ORIGINAL SCALE IS IN INCHES
FOR REDUCED PLANS



SIGN INSTALLATION

1
PD-3



DYNAMIC SPEED FEEDBACK SIGN

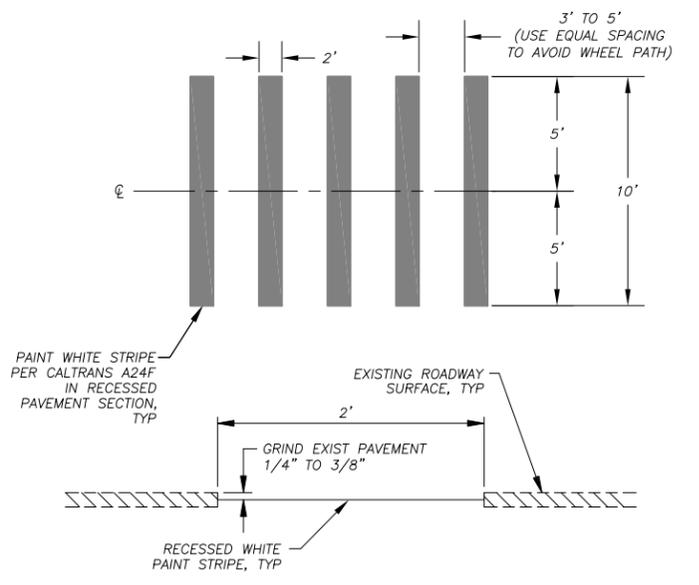
2
PD-3

SIGNING LEGEND

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



RECESSED CROSSWALK

3
PD-3

REVISION	NUMBER	DATE	DESCRIPTION	BY



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COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT SERVICES
TRANSPORTATION DEPARTMENT

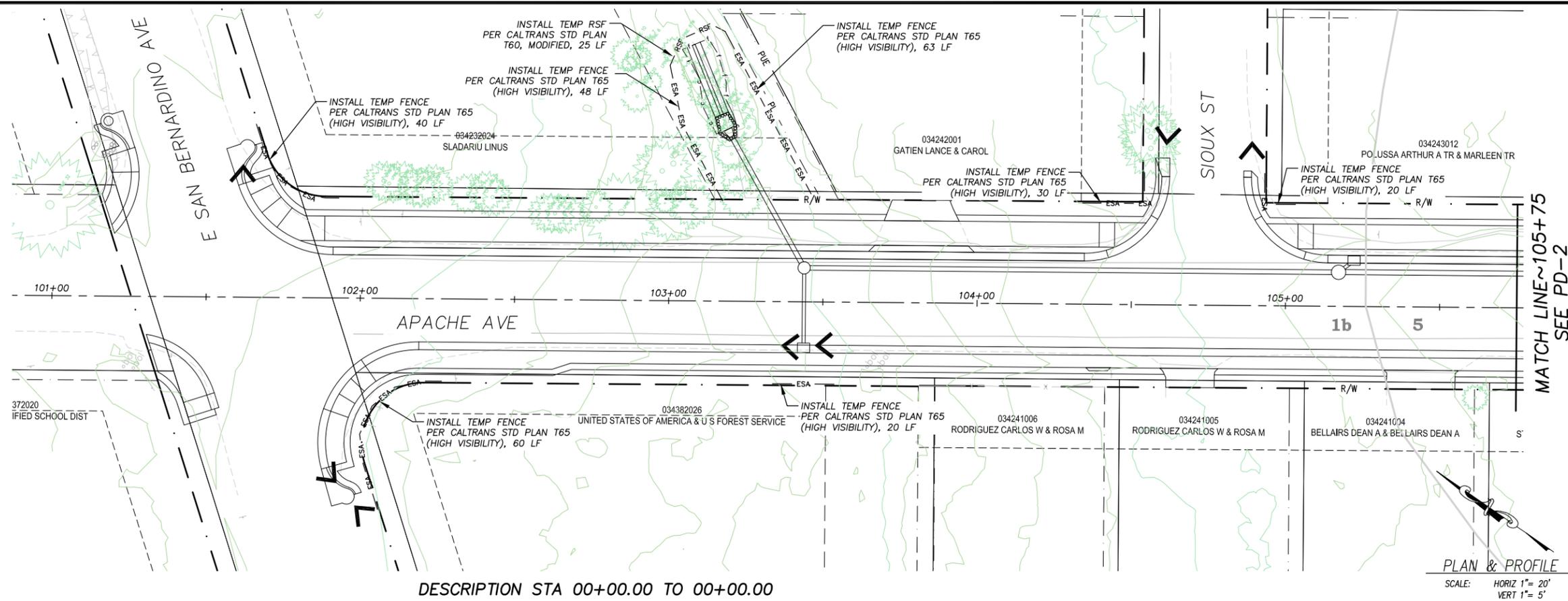
APACHE AVENUE PEDESTRIAN SAFETY AND
CONNECTIVITY PROJECT
PAVEMENT DELINEATION AND SIGN PLAN

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

LEGEND

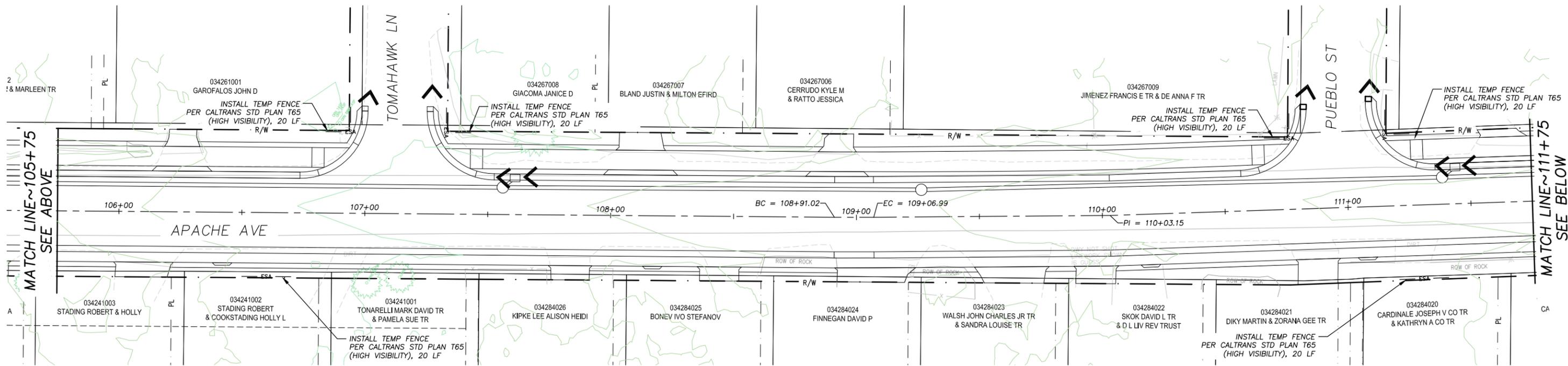
- COUNTY OR CALTRANS RIGHTS-OF-WAY OR PROPERTY LINE
- - - - - EXISTING EDGE OF PAVEMENT
- LAND CAPABILITY BOUNDARY
- 10' SEZ SETBACK (IF APPLICABLE)
- ◻ PROPOSED STAGING, STORAGE, OR CONC WASH
- WOODEN TREE TRUNK PROTECTION
- - - - - ESA - - - - - TEMPORARY FENCE (TYPE ESA)
- - - - - RSF - - - - - REINFORCED 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
HARD COVERAGE			
AC	87,277	77,032	-10,245
TOTAL	87,277	77,032	-10,245



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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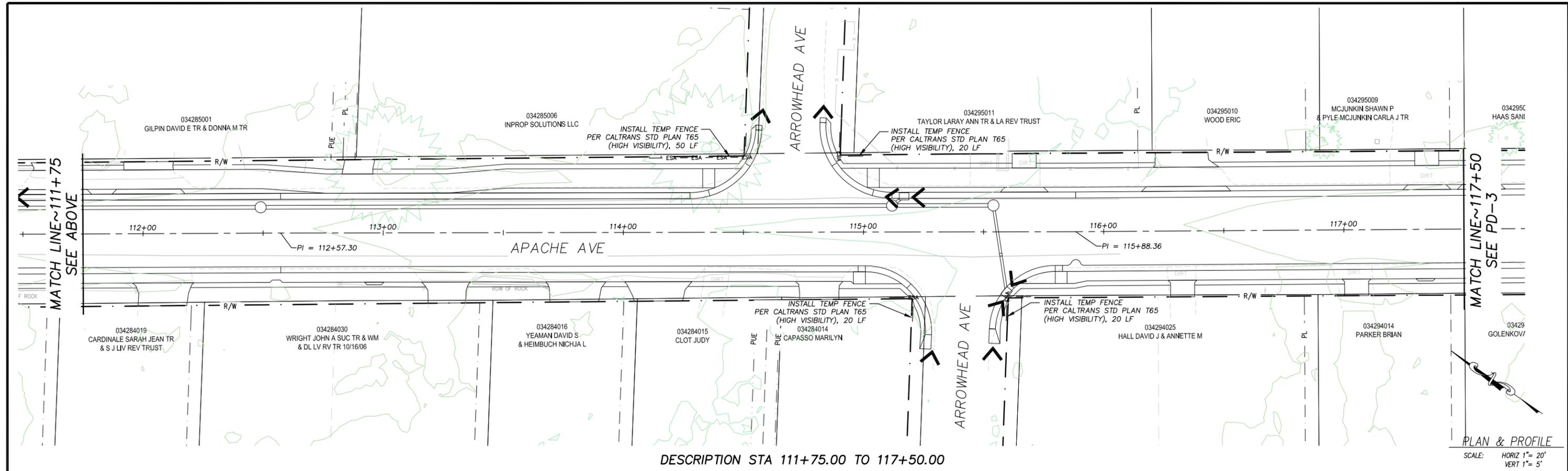


COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT SERVICES
TRANSPORTATION DEPARTMENT

APACHE AVENUE PEDESTRIAN SAFETY AND
CONNECTIVITY PROJECT
TEMPORARY EROSION CONTROL

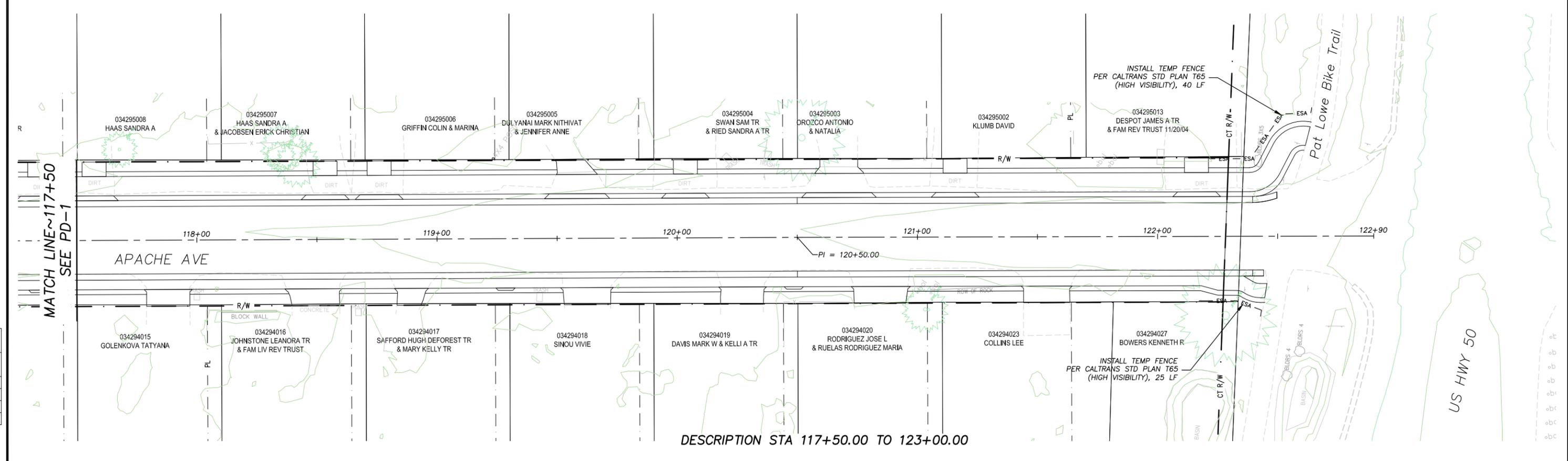
SHEET
EC-1
29 OF 33
CONTRACT NO.
7922
CIP No.
95199

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES



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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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)

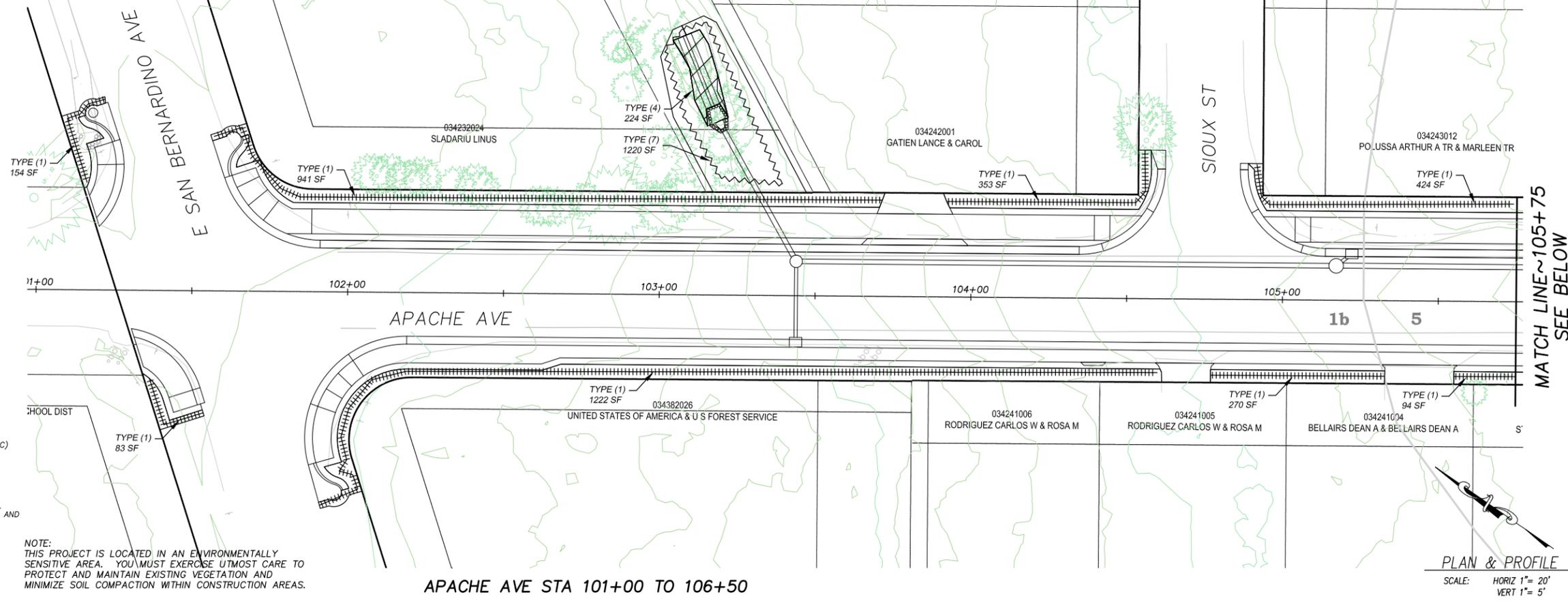
NOTES

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.

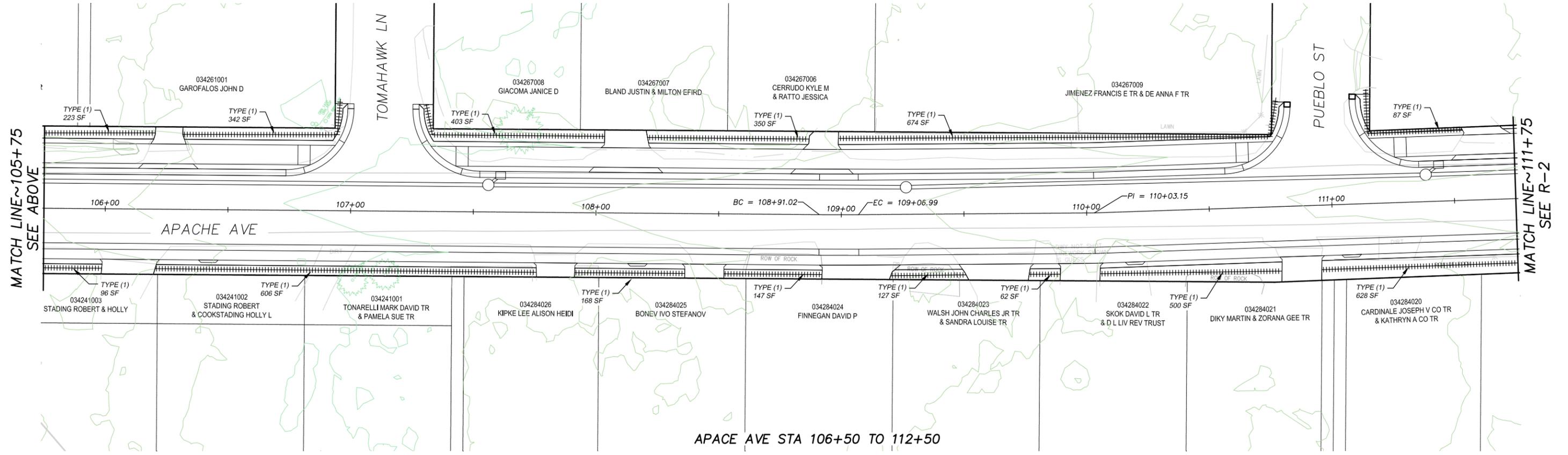


APACHE AVE STA 101+00 TO 106+50

MATCH LINE ~105+75
SEE BELOW

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

DRAWING NAME: \\\001\Users\TD-S\T-Engineering\Civil_3D_PROJECTS\95199\Engineering\95199\APACHE R-1.dwg
ORIGINAL SCALE IS IN INCHES
FOR REDUCED PLANS



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



PREPARED UNDER THE SUPERVISION OF:
[Signature]
REGISTERED CIVIL ENGINEER
DATE: **APRIL 2, 2024**

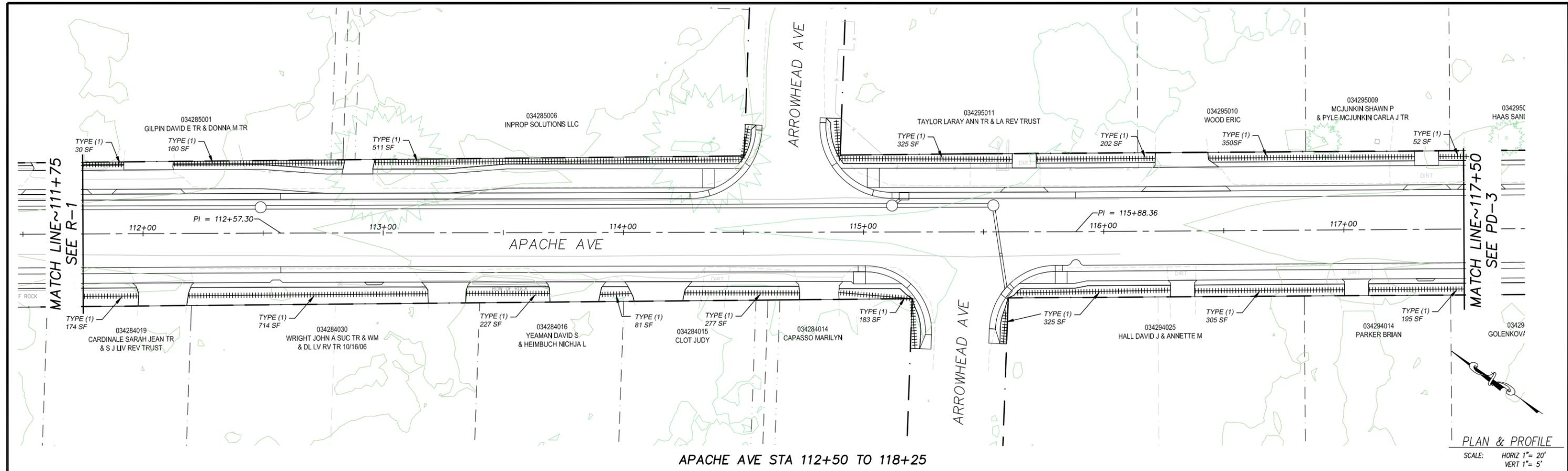
DESIGNED: DMG
DRAWN: DMG
CHECKED: DWK
DATE: 4/2024
ROAD NUMBER: ---

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

APACHE AVENUE PEDESTRIAN SAFETY AND
CONNECTIVITY PROJECT
REVEGETATIVE PLAN

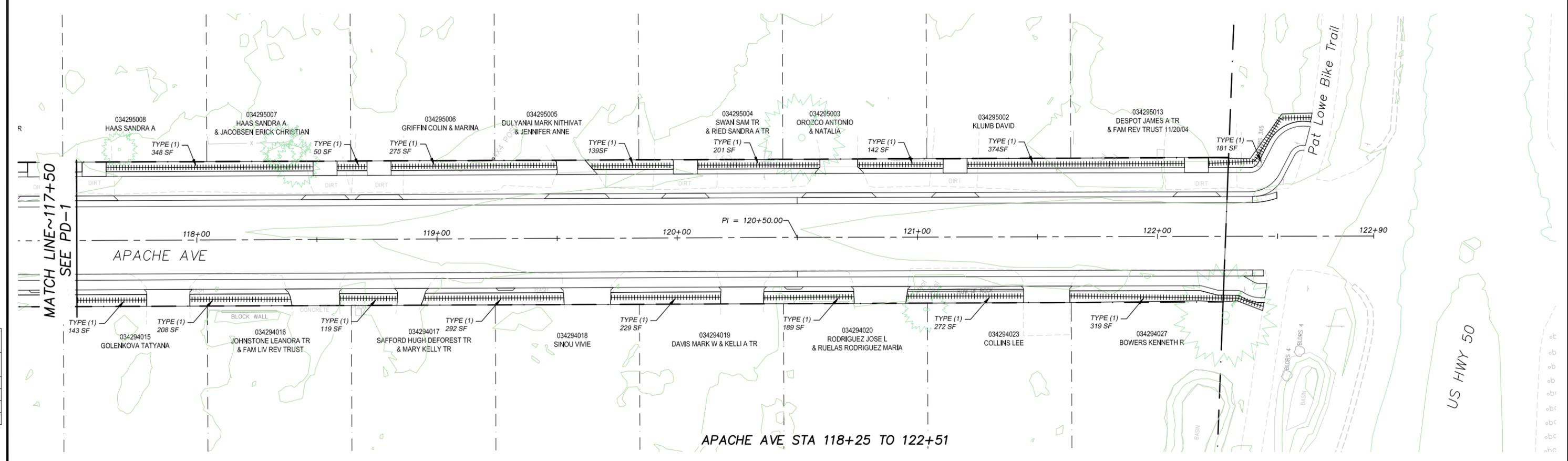
SHEET
R-1
31 OF 33
CONTRACT NO.
7922
CIP No.
95199

ORIGINAL SCALE IS IN INCHES
 2
 1
 0
 FOR REDUCED PLANS
 REVISION
 NUMBER DATE DESCRIPTION BY



APACHE AVE STA 112+50 TO 118+25

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



APACHE AVE STA 118+25 TO 122+51

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
APRIL 2, 2024
 DATE:

DESIGNED: DMG
 DRAWN: DMG
 CHECKED: DWK
 DATE: 4/2024
 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



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



SCALE: 1" = 120'

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.

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

REVISION	NUMBER	DATE	DESCRIPTION	BY



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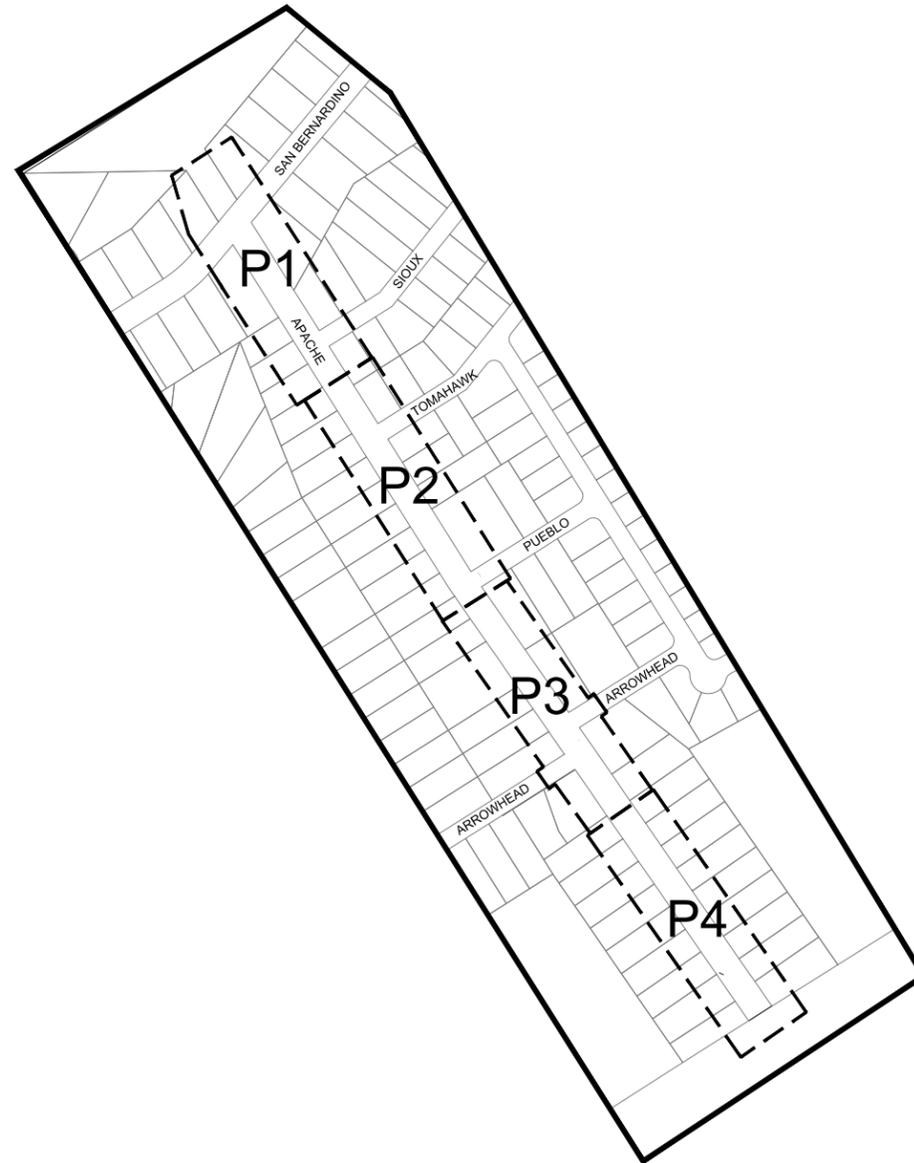
COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT SERVICES
 TRANSPORTATION DEPARTMENT

APACHE AVENUE PEDESTRIAN SAFETY AND
 CONNECTIVITY PROJECT
 TEMPORARY EROSION CONTROL

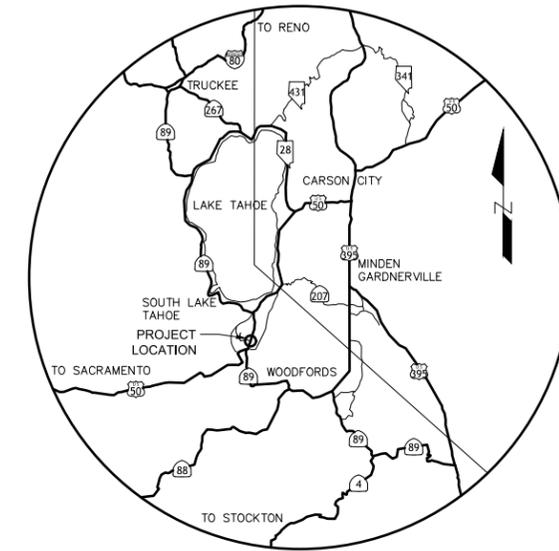
SHEET
TC-1
 33 OF 33
 CONTRACT NO.
7922
 CIP No.
95199

2024 APACHE WATERLINE REPLACEMENT PROJECT

SOUTH TAHOE PUBLIC UTILITY DISTRICT

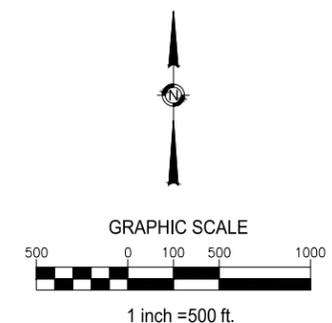


SHEET INDEX



VICINITY MAP

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



BOARD OF DIRECTORS
SOUTH TAHOE PUBLIC UTILITY DISTRICT

DIRECTORS

NICK EXLINE
NICK HAVEN
DAVID PETERSON
SHANE ROSMOS
KELLY SHEEHAN

GENERAL MANAGER

PAUL HUGHES

APPROVED FOR PURPOSES OF GOVERNMENT CODE 830.6:

JULIE H. RYAN, DISTRICT ENGINEER
P.E. NO. CE 59002
SOUTH TAHOE PUBLIC UTILITY DISTRICT

DATE

SOUTH TAHOE PUBLIC UTILITY DISTRICT
Seaver, 1950, Rider
1275 Meadow Crest Drive South Lake Tahoe, California 96150
Phone (530) 544-6474 Fax (530) 544-4379
WWW.STPD.US

2024 APACHE WATERLINE
REPLACEMENT PROJECT
COVER SHEET



DATE: NOV 2023
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	EACH	REF	REFERENCE
EA	EL DORADO COUNTY	REQD	REQUIRED
EDC	EXISTING GRADE	REVEG	REVEGETATION
ELEC	ELECTRIC	RJ	RESTRAINED JOINT
ELEV	ELEVATION	RT	RIGHT
ELL	ELBOW	ROW	RIGHT-OF-WAY
EOP	EDGE OF PAVEMENT	SCO	SEWER CLEAN OUT
ESMT	EASEMENT	SCH	SCHEDULE
FM	FORCE MAIN	SD	STORM DRAIN
G	GAS	SDMH	STORM DRAIN MANHOLE
GA	GAUGE	SFD	SINGLE FAMILY DWELLING
GALV	GALVANIZED	SQ FT	SQUARE FOOT
GB	GRADE BREAK	SHT	SHEET
GPM	GALLONS PER MINUTE	SPEC	SPECIFICATIONS
GS	GAS SERVICE, GROUND SHOT	SQ	SQUARE
H	HEIGHT	SS	SANITARY SEWER, STAINLESS STEEL
HORZ, HO	HORIZONTAL, HORIZONTAL OFFSET	SSL	SANITARY SEWER LATERAL
HWY	HIGHWAY	SSMH	SANITARY SEWER MANHOLE
ID	INSIDE DIAMETER	ST	STREET
IE	INVERT ELEVATION	STA	STATION
INV	INVERT	STD	STANDARD
IPS	IRON PIPE SIZE	STL	STEEL
JT	JOINT	STPUD	SOUTH TAHOE PUBLIC UTILITY DISTRICT
L	LENGTH	STR	STRUCTURE
LF	LINEAR FEET	SVC	SERVICE
LN	LANE	TEL	TELEPHONE
LOC	LOCATION	TAN	TANGENT
LT	LEFT	TBC	TOP BACK CURB
LTUSD	LAKE TAHOE UNIFIED SCHOOL DISTRICT	TBD	TO BE DETERMINED
MAX	MAXIMUM	TBR	TO BE REMOVED
MECH	MECHANICAL	TEMP	TEMPORARY
MFR	MANUFACTURER	TG	TOP OF GRATE
MH	MANHOLE	TR	TOP OF RIM
MJ	MECHANICAL JOINT	TRPA	TAHOE REGIONAL PLANNING AGENCY
MIN	MINIMUM	TYP	TYPICAL
N	NORTH/NEW	UG	UNDERGROUND
NA	NOT APPLICABLE	UGE	UNDERGROUND ELECTRICAL
NIC	NOT IN CONTRACT	USFS	U.S. FOREST SERVICE
NO	NORMALLY OPEN	UTIL	UTILITY
NTS	NOT TO SCALE	V, VO	VERTICAL, VERTICAL OFFSET
OC	ON CENTER	VAR	VARIES
OD	OUTSIDE DIAMETER	VEG	VEGETATION
		W	WATER
		WL	WATER LINE
		W/	WITH
		WM	WATER METER
		WS	WATER SERVICE
		WV	WATER VALVE
		YD	YARD

LEGEND

EXISTING:	
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:	— sd — sd — sd —
PROPERTY LINE:	-----
RIGHT-OF-WAY:	-----
EASEMENT:	-----
SETBACK:	-----
EDGE OF PAVEMENT:	-----
EDGE OF SD CHANNEL:	-----
WATER MAIN VALVE:	
WATER METER:	
FIRE HYDRANT:	
SEWER MANHOLE:	
POWER POLE:	
ELEC/COMM/TELE VAULT:	
SIGN:	
TREE OR BUSH:	

PROPOSED:	
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. WATERLINE EXCAVATIONS WITHIN THE EXISTING PAVED AREAS THAT ARE WITHIN THE LIMITS OF THE COUNTY PAVING SHALL HAVE TEMPORARY PAVING (2-INCH HOT ASPHALT) PATCHED 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.

SOUTH TAHOE PUBLIC UTILITY DISTRICT



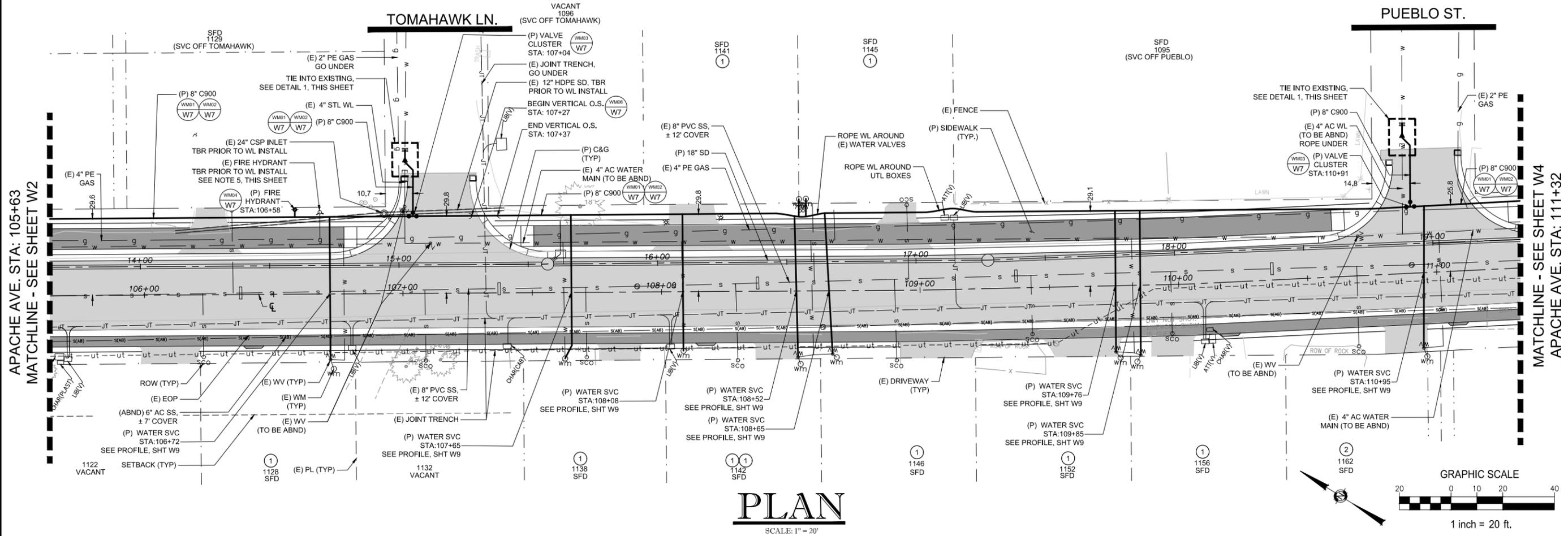
A PUBLIC AGENCY
 1275 Meadows Crest Drive South Lake Tahoe, California 96150
 Phone (530) 544-6474 Fax (530) 544-4319
 WWW.STPUD.US

2024 APACHE WATERLINE REPLACEMENT PROJECT GENERAL NOTES



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





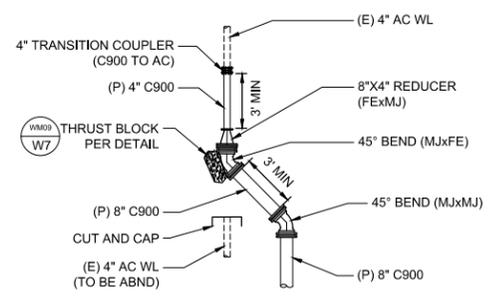
PLAN
SCALE: 1" = 20'

KEYNOTES:

- ① PROVIDE SINGLE 3/4" WATER SERVICE ON NEW MAIN AND CONNECT TO EXISTING METER
- 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. 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'

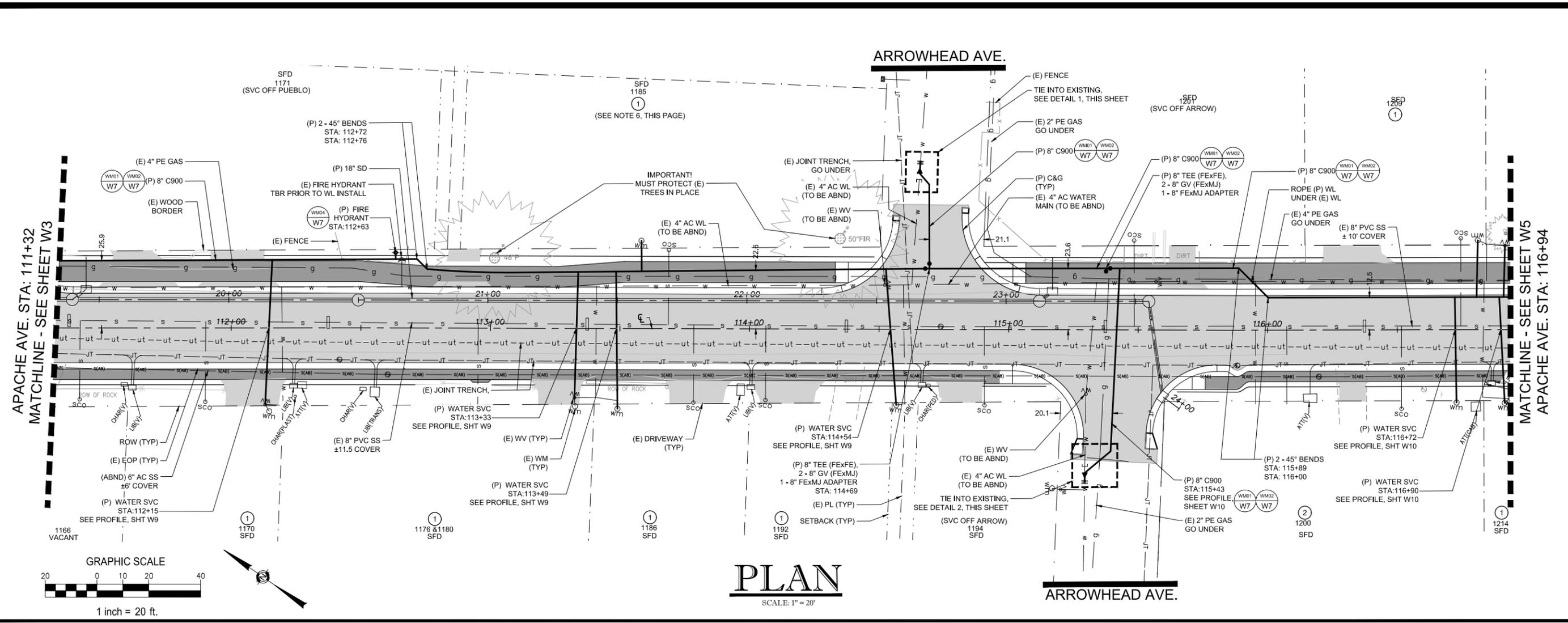
**2024 APACHE WATERLINE
REPLACEMENT PROJECT
STA 105+63 TO 111+32**



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

W4
37 OF 43
SHEETS

SOUTH TAHOE PUBLIC UTILITY DISTRICT
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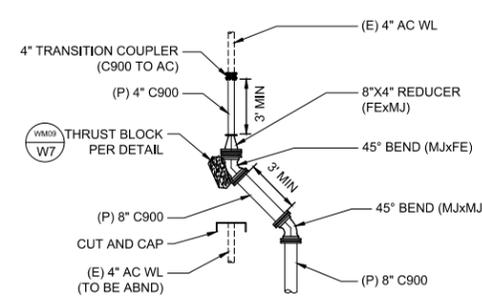


APACHE AVE. STA: 111+32
MATCHLINE - SEE SHEET W3

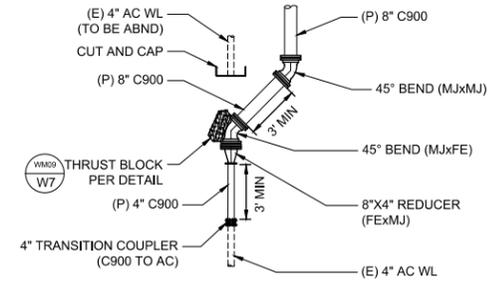
MATCHLINE - SEE SHEET W5
APACHE AVE. STA: 116+94

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 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.
 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'

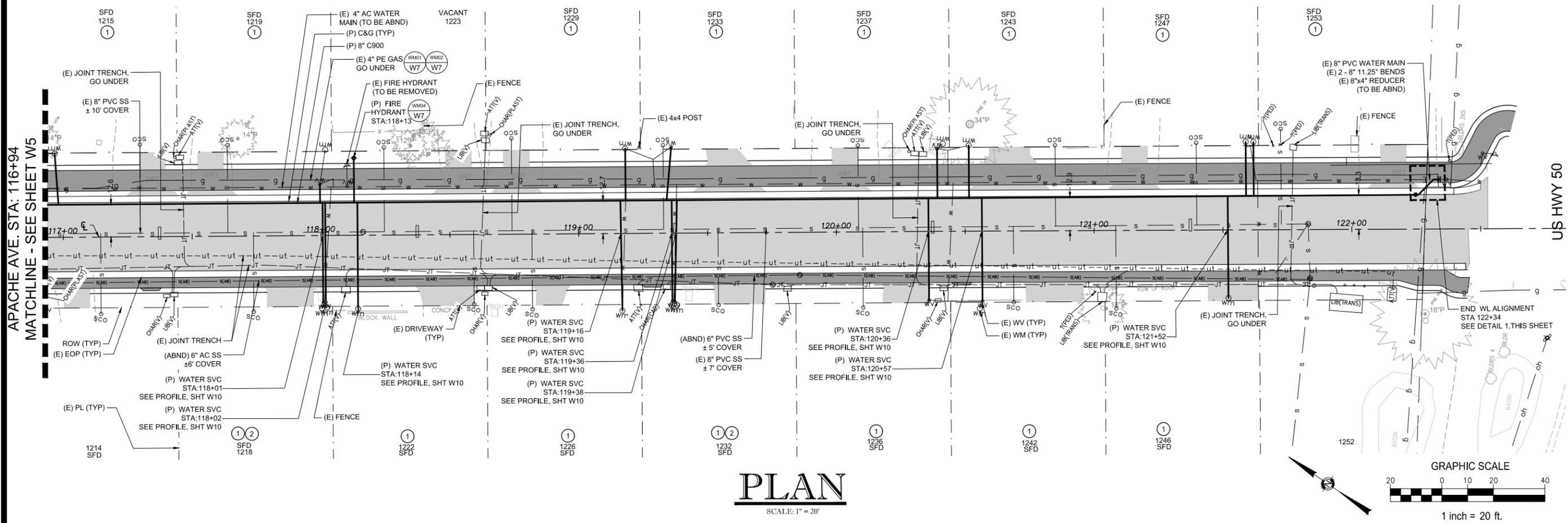
**2024 APACHE WATERLINE
REPLACEMENT PROJECT
STA 111+32 TO 116+94**



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
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WWW.STPD.US

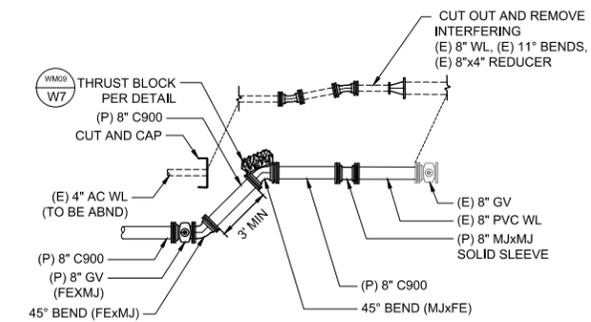


KEYNOTES:

- 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 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.
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.



DETAIL 1
SCALE: 1" = 5'

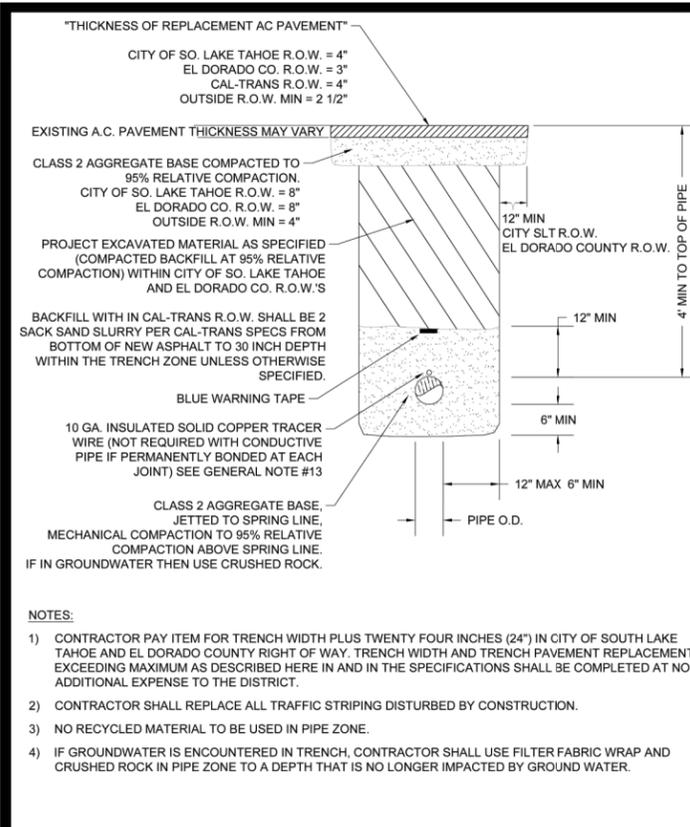
**2024 APACHE WATERLINE
REPLACEMENT PROJECT
STA 116+94 TO 122+34**



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

W6
39 OF 43
SHEETS

SOUTH TAHOE PUBLIC UTILITY DISTRICT
4 PUBLIC AGENCY
Seaver, 1950 Water
1275 Meadown Crest Drive South Lake Tahoe, California 96150
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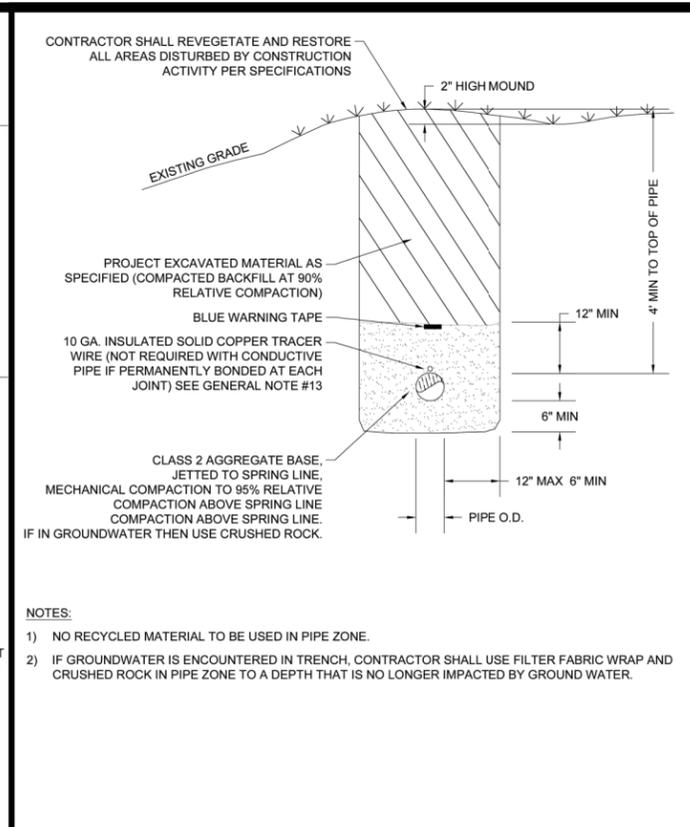


APPROVED BY: JULIE H. BEAN, DISTRICT ENGINEER P.E. NO. CE 59002

WATER MAIN TRENCH WITHIN PAVED AREAS
STANDARD DETAIL WM01

DATE: 3/3/2023 SCALE: NTS

WM01

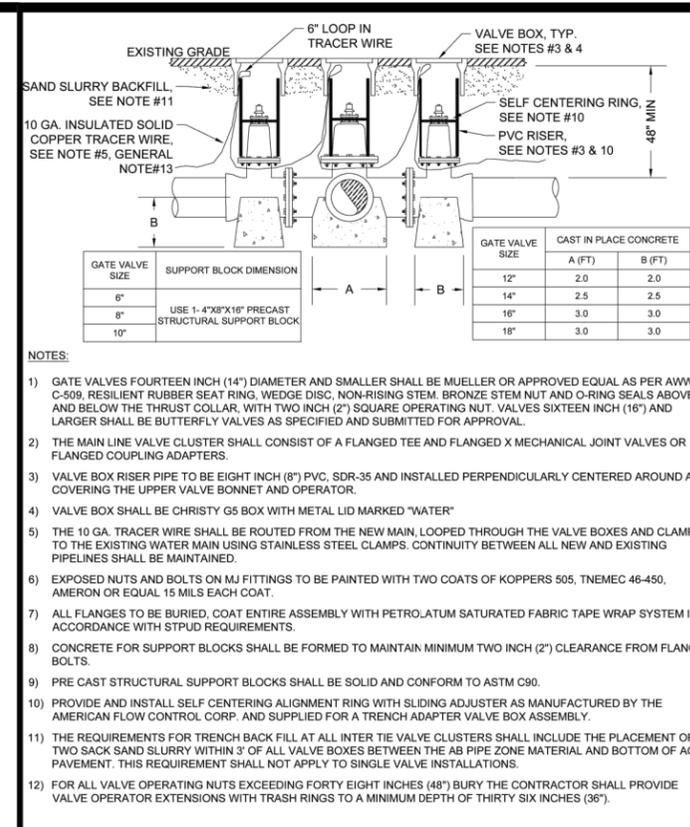


APPROVED BY: JULIE H. BEAN, DISTRICT ENGINEER P.E. NO. CE 59002

WATER MAIN TRENCH OUTSIDE PAVED AREAS
STANDARD DETAIL WM02

DATE: 4/7/2022 SCALE: NTS

WM02

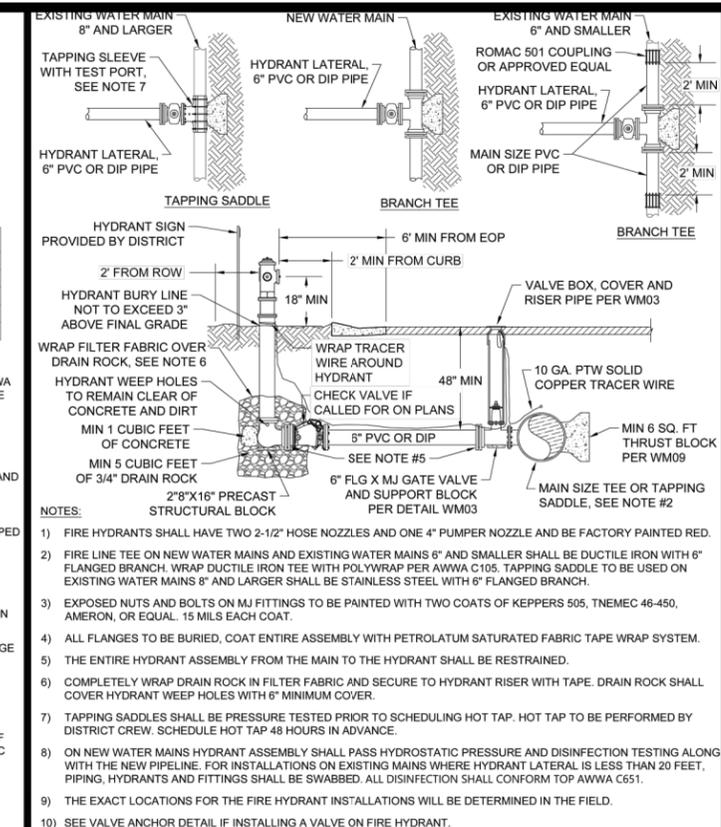


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WATER VALVE ASSEMBLY
STANDARD DETAIL WM03

DATE: 4/11/2022 SCALE: NTS

WM03

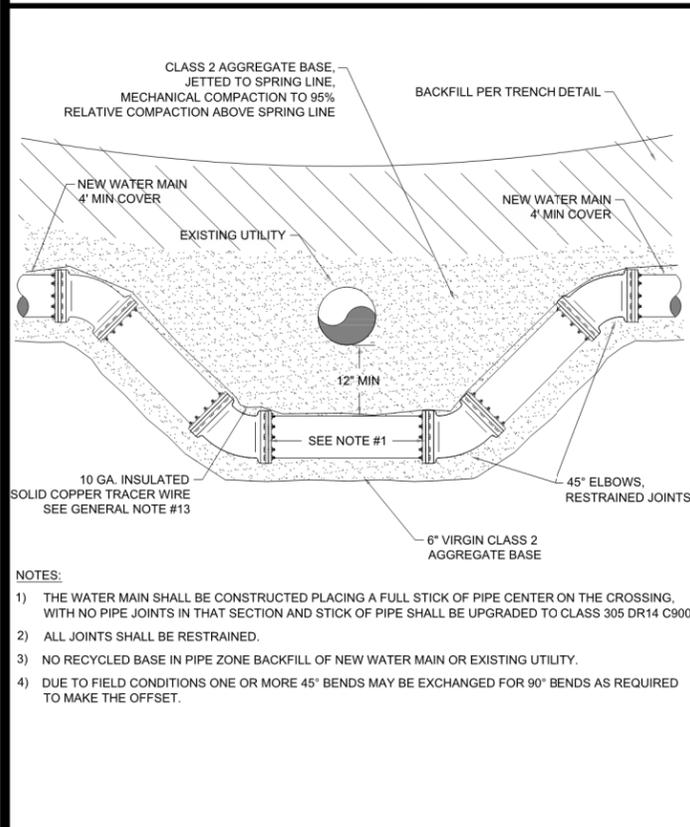


APPROVED BY: JULIE H. BEAN, DISTRICT ENGINEER P.E. NO. CE 59002

FIRE HYDRANT
STANDARD DETAIL WM04

DATE: 6/2/2022 SCALE: NTS

WM04



APPROVED BY: JULIE H. BEAN, DISTRICT ENGINEER P.E. NO. CE 59002

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"	14'	6'	3'	2'	10'	14'	41'	42'	42'	42'
8"	16'	7'	4'	2'	10'	16'	51'	63'	63'	63'
10"	18'	8'	4'	2'	10'	18'	61'	75'	75'	75'
12"	21'	9'	5'	2'	10'	21'	62'	82'	82'	82'
14"	22'	6'	5'	3'	10'	22'	43'	66'	66'	66'
16"	25'	10'	5'	3'	10'	25'	63'	99'	99'	99'
18"	26'	11'	6'	3'	15'	26'	43'	78'	78'	78'
20"	29'	12'	6'	3'	23'	29'	64'	117'	117'	117'
24"	29'	12'	6'	3'	25'	29'	43'	90'	90'	90'
30"	33'	14'	7'	4'	39'	33'	64'	133'	133'	133'
36"	33'	14'	7'	4'	36'	33'	44'	101'	101'	101'
42"	36'	15'	8'	4'	55'	36'	65'	150'	150'	150'
48"	36'	15'	8'	4'	46'	36'	62'	112'	112'	112'
54"	40'	17'	8'	4'	71'	40'	92'	167'	167'	167'
60"	45'	19'	9'	4'	76'	45'	62'	144'	144'	144'
66"	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. BEAN, DISTRICT ENGINEER P.E. NO. CE 59002

RESTRAINT LENGTH SCHEDULE
STANDARD DETAIL WM06

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:

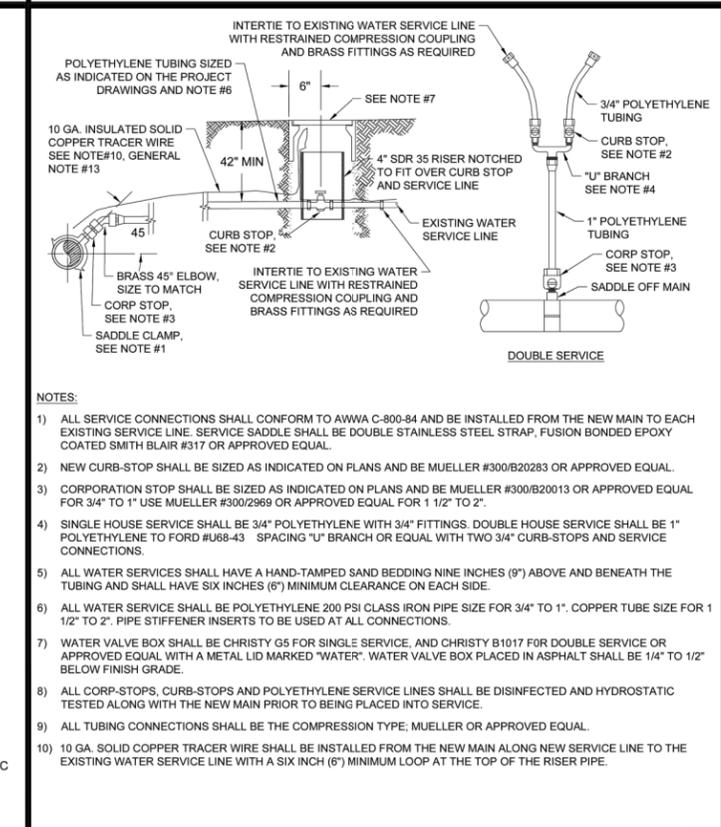
- JOINTS, FLANGE BOLTS AND FACE OF PLUGS TO BE KEPT CLEAR OF CONCRETE.
- BLOCKS MUST BE POURED AGAINST UNDISTURBED SOIL.
- THRUST BLOCKS TO BE CONSTRUCTED OF CLASS 423-C-2500 OR BETTER P.C.C.
- THRUST BLOCKS AREA IS BASED ON TEST PRESSURE OF 150 PSI AND A HORIZONTAL SOIL BEARING STRENGTH OF 1500 PSI.
- 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. BEAN, DISTRICT ENGINEER P.E. NO. CE 59002

TYPICAL THRUST BLOCK
STANDARD DETAIL WM09

DATE: 4/12/2022 SCALE: NTS

WM09

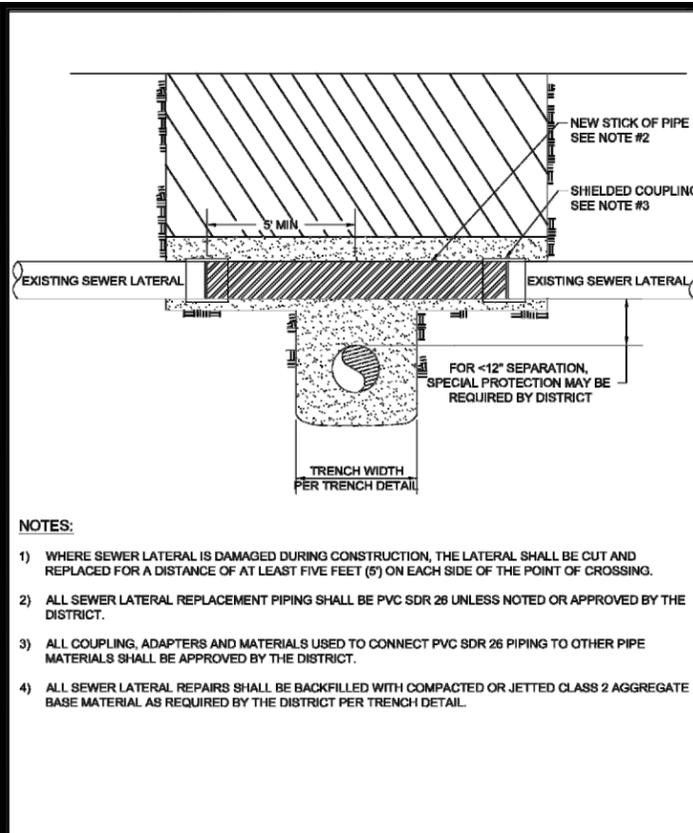


APPROVED BY: JULIE H. BEAN, DISTRICT ENGINEER P.E. NO. CE 59002

WATER SERVICE
STANDARD DETAIL WS01

DATE: 4/7/2022 SCALE: NTS

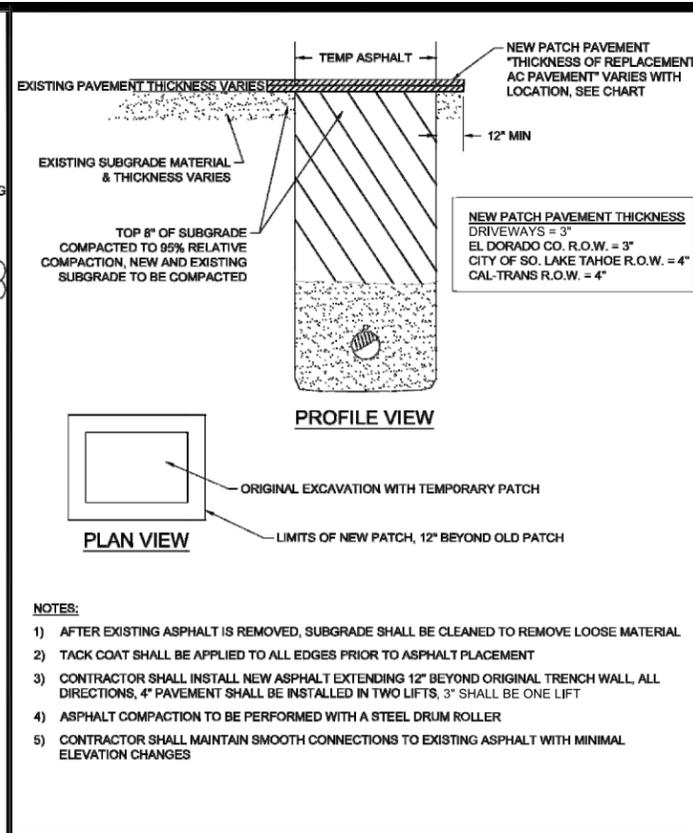
WS01



NOTES:

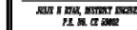
- 1) WHERE SEWER LATERAL IS DAMAGED DURING CONSTRUCTION, THE LATERAL SHALL BE CUT AND REPLACED FOR A DISTANCE OF AT LEAST FIVE FEET (5') ON EACH SIDE OF THE POINT OF CROSSING.
- 2) ALL SEWER LATERAL REPLACEMENT PIPING SHALL BE PVC SDR 26 UNLESS NOTED OR APPROVED BY THE DISTRICT.
- 3) ALL COUPLING, ADAPTERS 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.

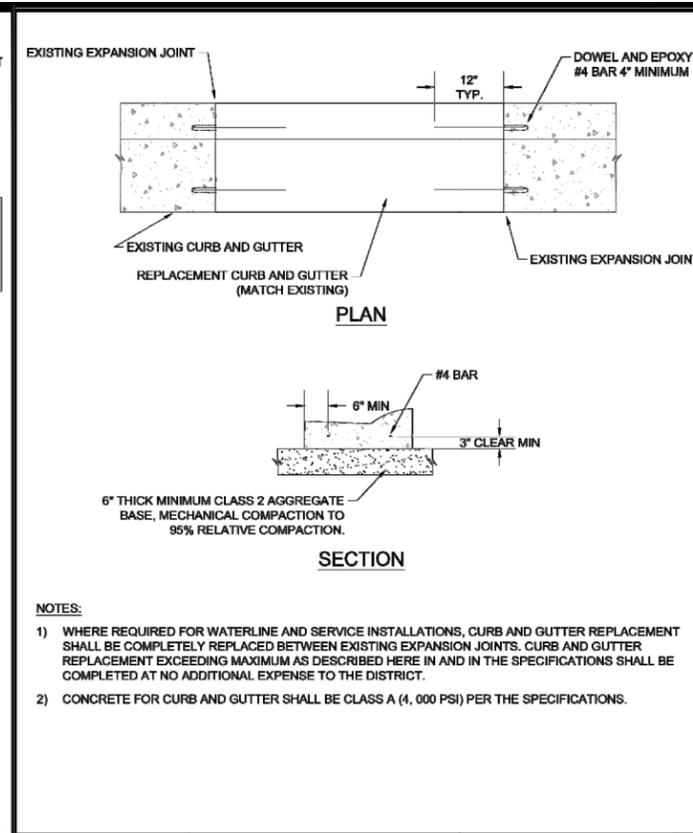
APPROVED BY:  JULIE H. BEAL, HISTORY ENGINEER P.E. NO. CE 2002	SEWER LATERAL REPLACEMENT AT PIPE TRENCH STANDARD DETAIL SS04 DATE: 4/12/2022 SCALE: NTS	 SS04
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NOTES:

- 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. BEAL, HISTORY ENGINEER P.E. NO. CE 2002	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. BEAL, HISTORY ENGINEER P.E. NO. CE 2002	CURB & GUTTER SECTION REPLACEMENT STANDARD DETAIL C04 DATE: 4/20/2022 SCALE: NTS	 C04
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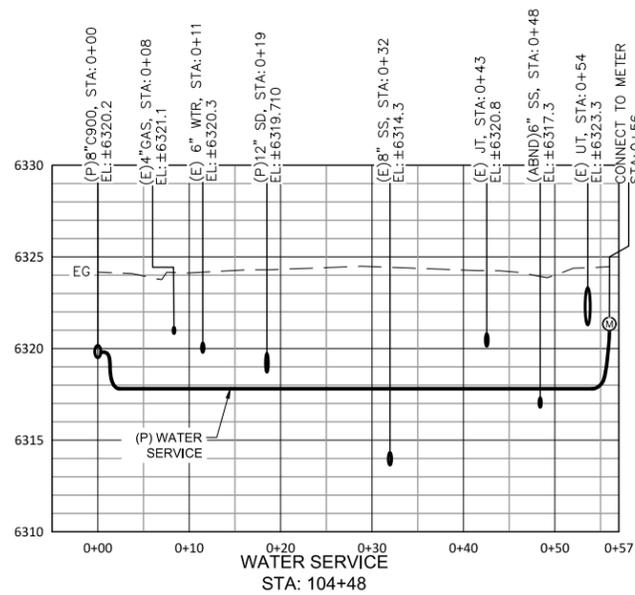
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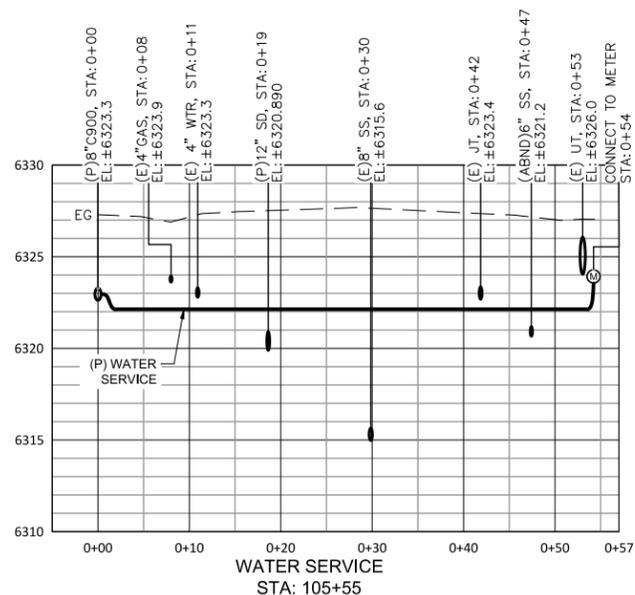
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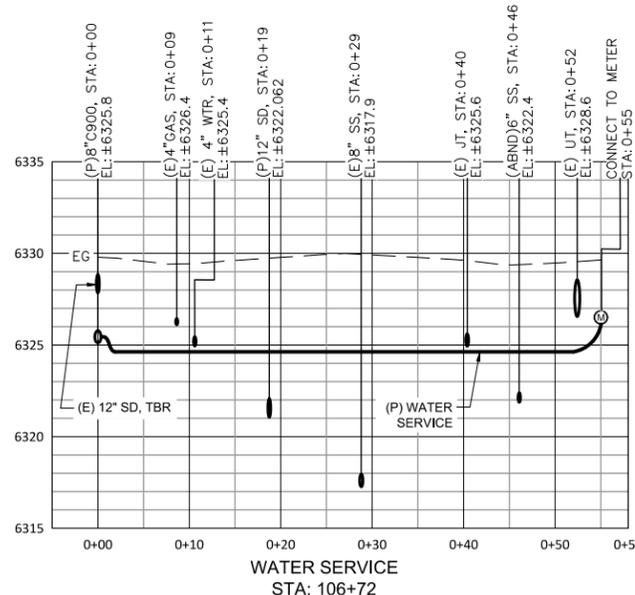
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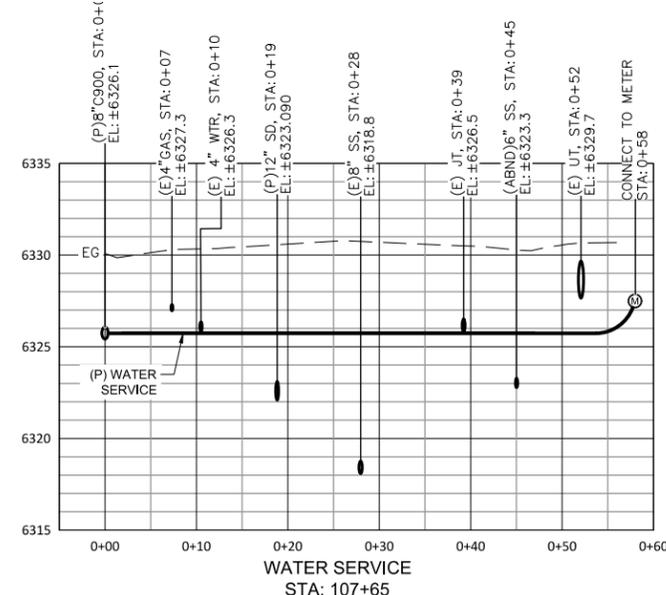
WATER SERVICE
STA: 104+48



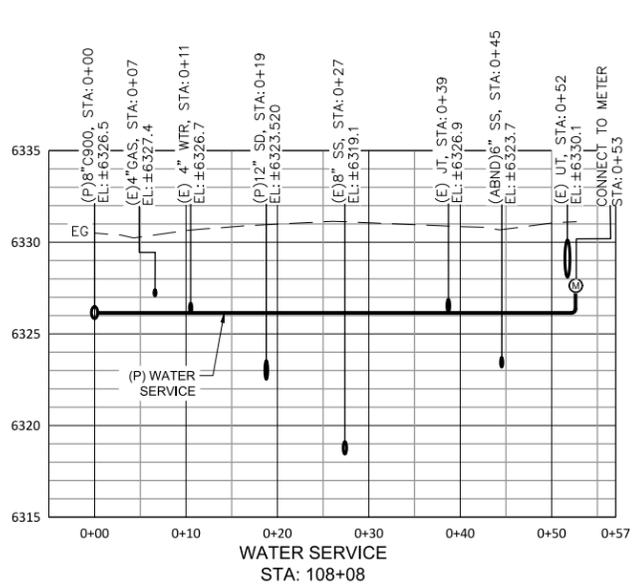
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STA: 105+55



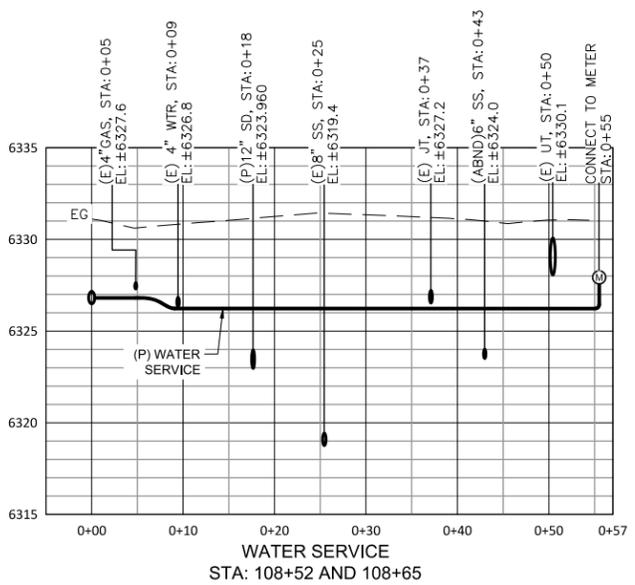
WATER SERVICE
STA: 106+72



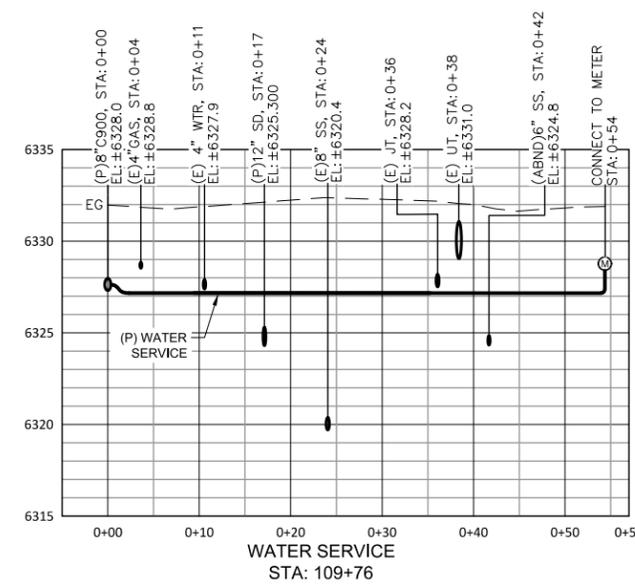
WATER SERVICE
STA: 107+65



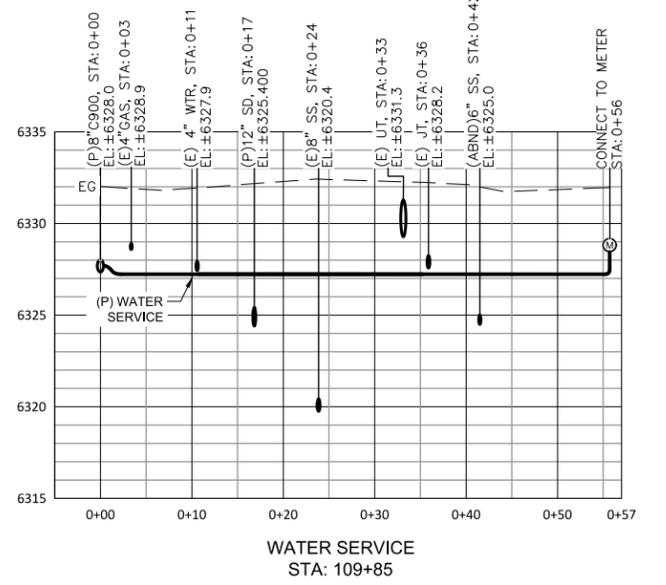
WATER SERVICE
STA: 108+08



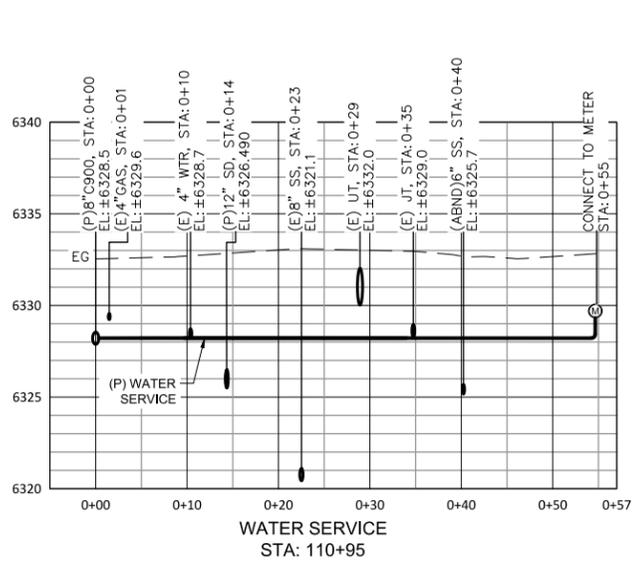
WATER SERVICE
STA: 108+52 AND 108+65



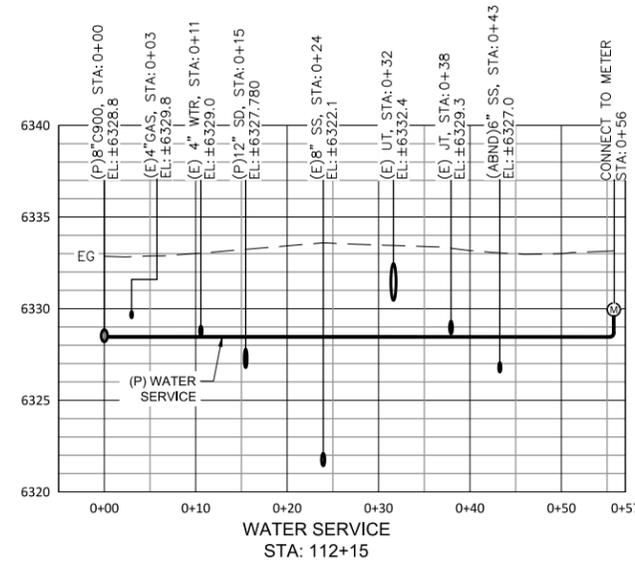
WATER SERVICE
STA: 109+76



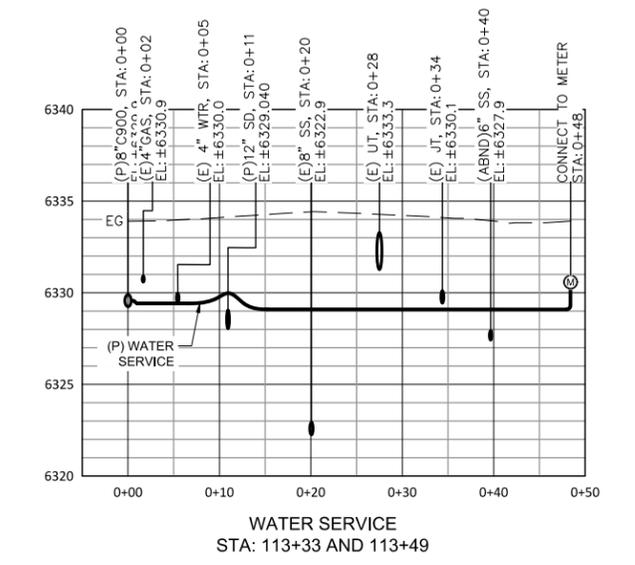
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STA: 109+85



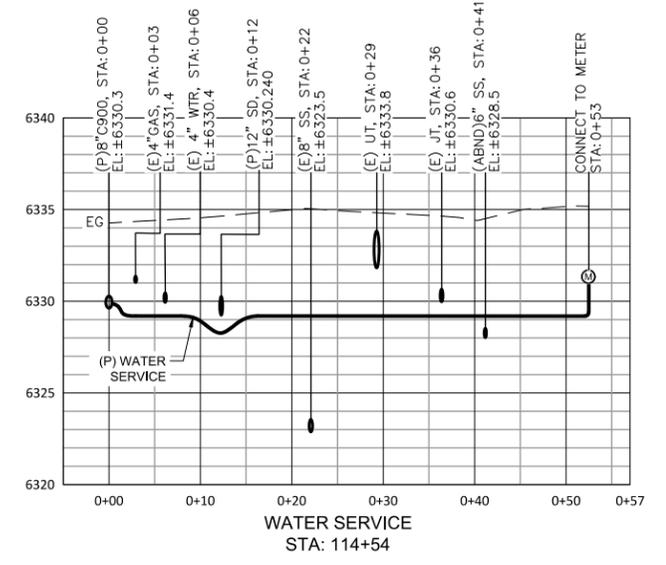
WATER SERVICE
STA: 110+95



WATER SERVICE
STA: 112+15



WATER SERVICE
STA: 113+33 AND 113+49

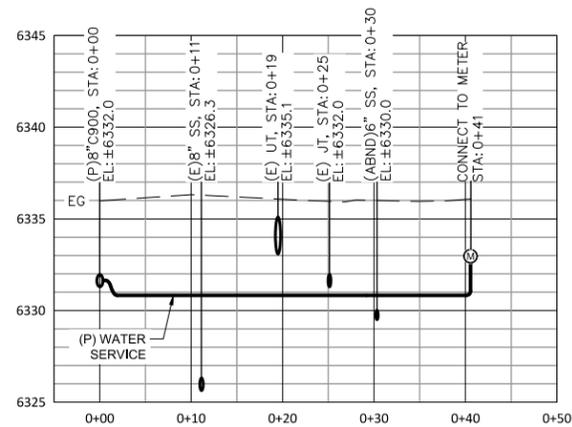


WATER SERVICE
STA: 114+54

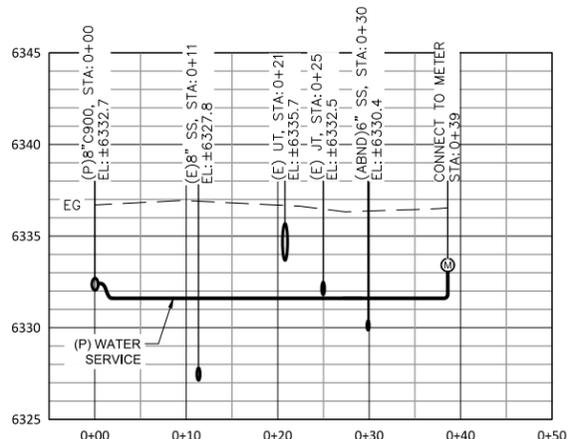
2024 APACHE WATERLINE
 REPLACEMENT PROJECT
 WATER SERVICE PROFILES



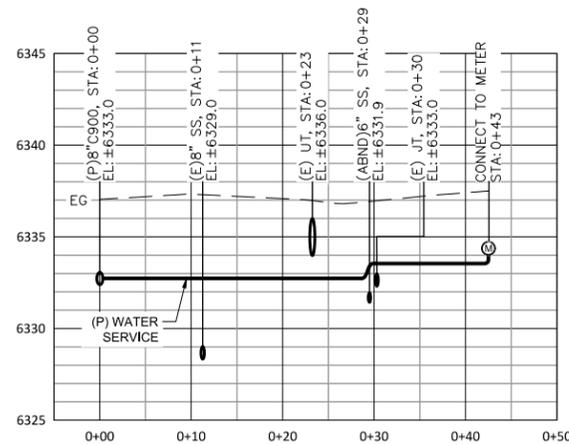
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 SCALE: AS SHOWN
 DRAWN: TCJ
 DESIGN: AC/TCJ
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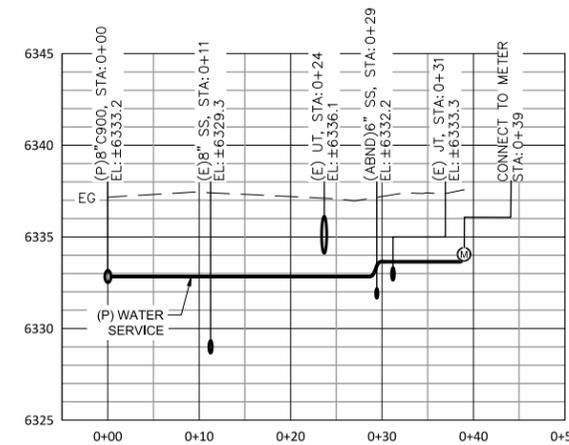
WATER SERVICE
STA: 116+72 AND 16+90



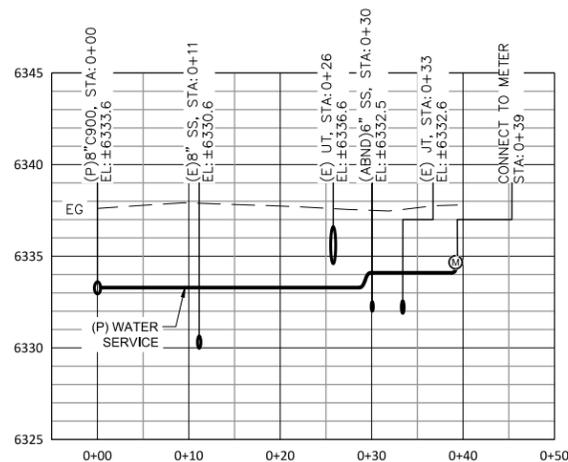
WATER SERVICE
STA: 118+01 AND 118+02
AND 118+14



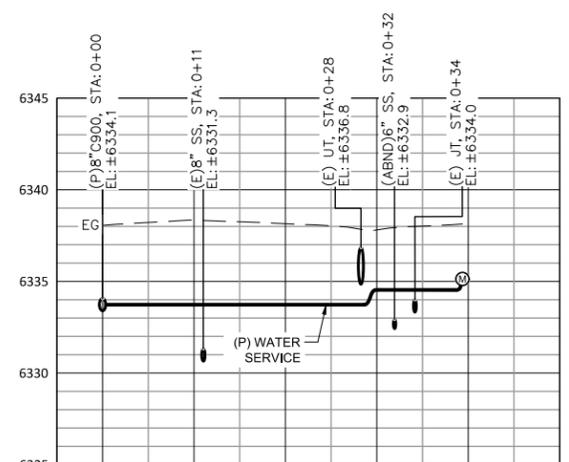
WATER SERVICE
STA: 119+16



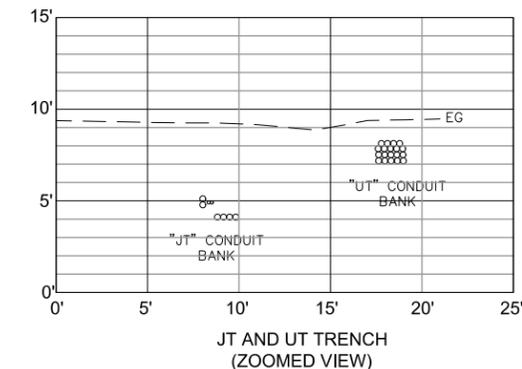
WATER SERVICE
STA: 119+36 AND 119+38



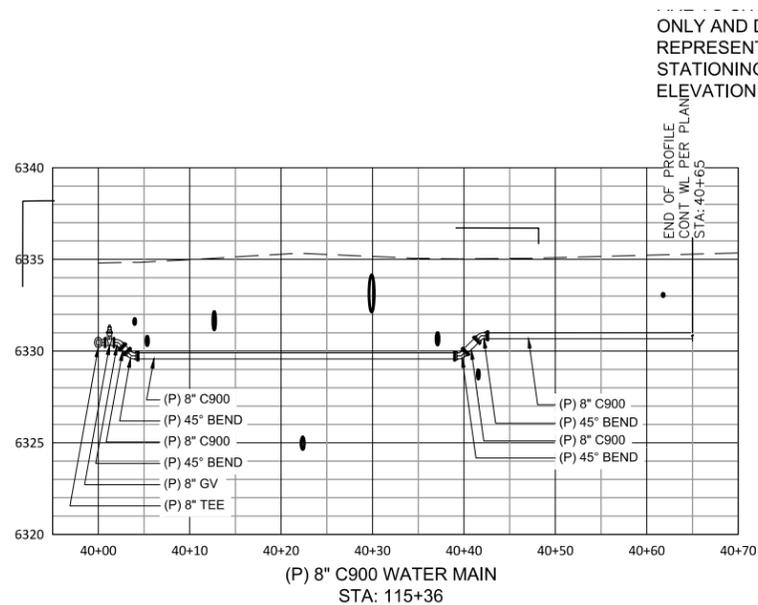
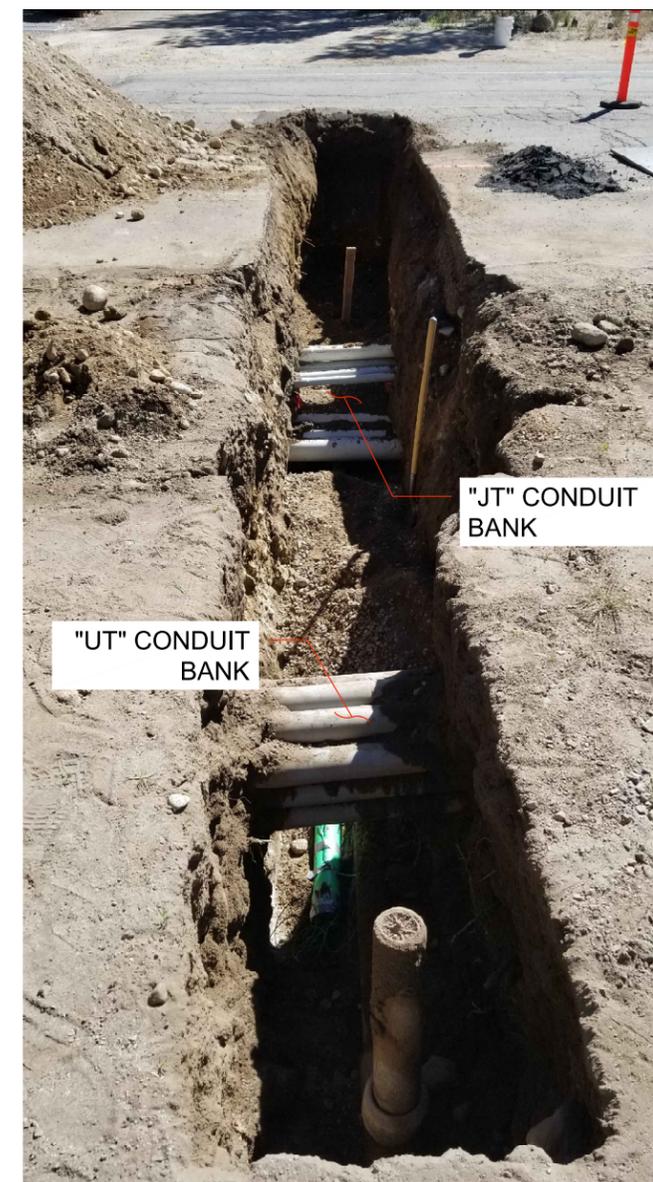
WATER SERVICE
STA: 120+36 AND 120+57



WATER SERVICE
STA: 121+52



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: