

X:\2_LINE UPGRADES & EXTENSIONS\SUNDANCE\60\CAD\0DESIGN\SUNDANCE_HWY50_29RD_FV_7-21

UTE WATER CONSERVANCY DISTRICT
MESA COUNTY, COLORADO

SUNDANCE DR. 6-INCH WATERLINE UPGRADE PROJECT



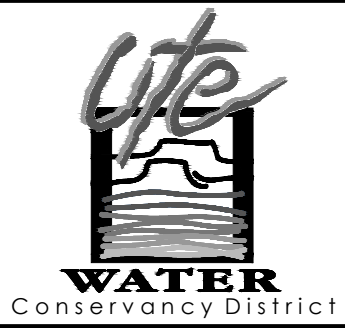
SHEET INDEX	
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1	PROJECT INFORMATION SHEET
2	SYMBOL LEGEND & ABBREVIATIONS
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7	PLAN & PROFILE – STA. 19+00 TO STA. 23+00
8	PLAN & PROFILE – STA. 23+00 TO STA. 27+60
9	MISC. DETAILS
10	CATHODIC DETAILS



SUBJECT AREA
TOWNSHIP 1S RANGE 1E
UTE PRINCIPAL MERIDIAN

VICINITY MAP
APPROXIMATE SCALE
1" = 200'

DATE: JULY 26	
CAD: F.VARGAS	
DESIGN: J.EKLUND	
CHECKED: J.EKLUND	VERT. SCALE: N/A
APPROVED: D.PRISKE	HORIZ. SCALE: N/A



UTE WATER CONSERVANCY DISTRICT
GRAND JUNCTION, CO 81505
PH. (970)242-7491
FX. (970)242-9189

NO.	REVISION	DATE	BY
1	POTHOLE DEPTHS & TEMP ASPHALT CONN.	08/11/26	
2			
3			
4			

SUNDANCE DRIVE
6-INCH WATERLINE
UPGRADE PROJECT

PROJECT INFORMATION SHEET

SHEET NO.
1

X:\2_LINE UPGRADES & EXTENSIONS\SUNDANCE\60CAD\0DESIGN\SUNDANCE_HWY50_29RD_FV_7-21

EXISTING

WATER METER	
WATER VALVE	
FIRE HYDRANT	
WATER LINE REDUCER	
DEADEND	
PRESSURE REGULATING VALVE	
SIGN	
MANHOLE	
MAILBOX	
POWER POLE	
UTILITY POLE	
STREET LIGHT	
ELECTRIC PULL BOX	
GUY WIRE ANCHOR	
CATCH BASIN	
PHONE PEDESTAL	
TELEPHONE MANHOLE	
TRAFFIC SIGNAL CONTROL	
BUSH	
TREE	

LEGEND

CONTROL LINE	
CULVERT	
FENCE	
MAP NEAT LINE	
RAILROAD	
DRAINAGE	
CURB	
CENTERLINE	
ASPHALT	
R.O.W. LINE	
PARCEL LINE	
EASEMENT	
GAS LINE	
JOINT TRENCH UTILITIES	
OVERHEAD POWER	
SANITARY SEWER MAIN	
SANITARY SEWER SERVICE	
TELEPHONE	
EXISTING WATER	
PROPOSED WATER	
TV - CABLE	
IRRIGATION	
PHONE - FIBER OPTIC	
STORM DRAIN	

ABBREVIATION

AASHTO
AC
ACI
ASPH
ASTM
AR/AV
AWG
AWWA
BFV
BS
CB
CI
CL
CONC
CMP
CP
DI
DIA
DR
ELEC
EL OR ELEV
EP
FL
FG
GALV
GRVL
GRC
GV
HDPE
HMWPE
HPI
IPS
IRRIG OR IRR
LF
MBX
MFG
MH
MJ
NPT
NTS
O.C.
PCCP
PE
PVC
RR
RCP
REQ'D
ROW
SS
STA
STD
STL
STRM
SW
TB
TBD
TYP
UP
US/DS
VPI
WSP

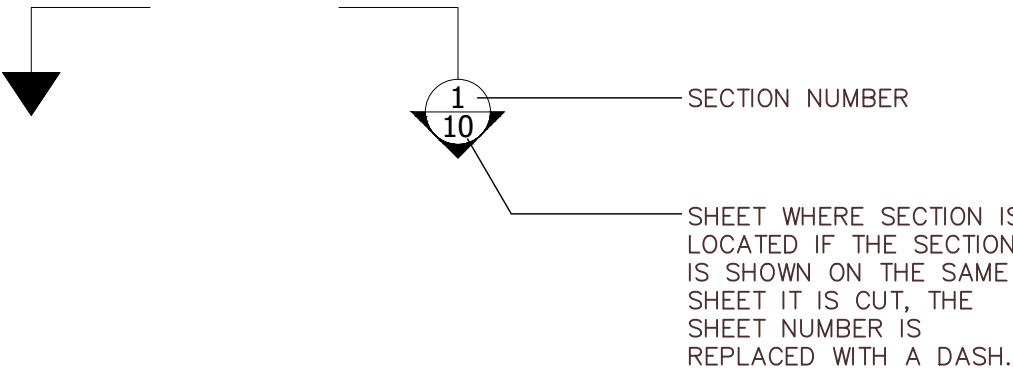
DESCRIPTION

AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ASBESTOS CEMENT
AMERICAN CONCRETE INSTITUTE
ASPHALT
AMERICAN SOCIETY FOR TESTING MATERIALS
COMBINATION AIR & VACUUM
AMERICAN WIRE GAGE
AMERICAN WATER WORKS ASSOCIATION
BUTTERFLY VALVE
BUTTSTRAP CONNECTION
CATCH BASIN
CAST IRON
CENTERLINE
CONCRETE
CORRUGATED METAL PIPE
CATHODIC PROTECTION
DUCTILE IRON
DIAMETER
DRIVE
ELECTRIC
ELEVATION
EDGE OF PAVEMENT
FLANGE
FINISHED GRADE
GALVANIZED
GRAVEL
GALVANIZED RIGID CONDUIT
GATE VALVE
HIGH DENSITY POLYETHYLENE
HORIZONTAL POINT OF INTERSECTION
HIGH MOLECULAR WEIGHT POLYETHYLENE
IRON PIPE SIZE
IRRIGATION
LINEAR FEET
MAILBOX
MANUFACTURING
MANHOLE
MECHANICAL JOINT
NATIONAL PIPE THREAD
NOT TO SCALE
ON CENTER
PRECAST CONCRETE CYLINDER PIPE
PLAIN END
POLYVINYL CHLORIDE
RAIL ROAD
REINFORCED CONCRETE PIPE
REQUIRED
RIGHT OF WAY
STAINLESS STEEL
STATION
STANDARD
STEEL
STORM
SIDEWALK
THRUST BLOCK
TO BE DETERMINED
TYPICAL
UTILITY POLE
UP STREAM/DOWN STREAM
VERTICAL POINT OF INTERSECTION
WELDED STEEL PIPE

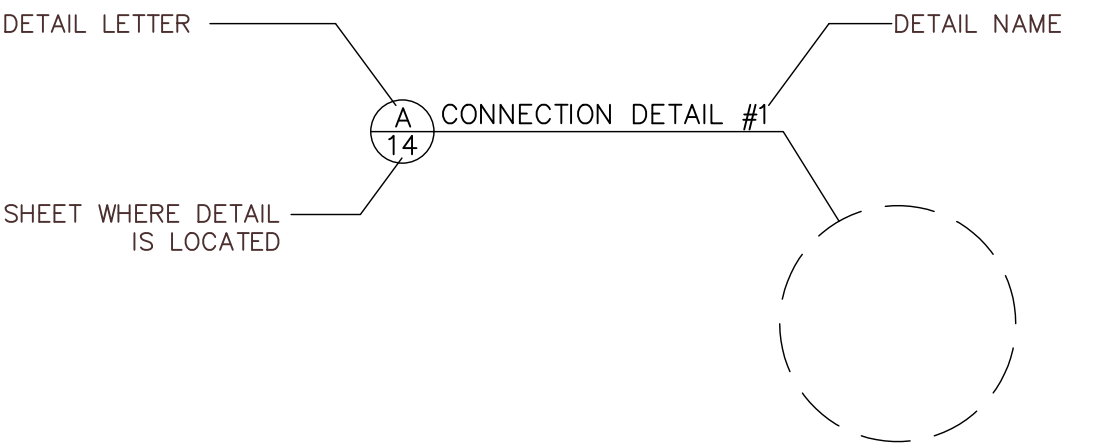
DRAWING, SECTION AND DETAIL TITLES

SECTION NAME		SECTION LETTER
SCALE: NTS		SHEET WHERE SECTION CUT IS TAKEN *
PROJECT NAME		DETAIL LETTER
SCALE: NTS		SHEET WHERE DETAIL CUT IS TAKEN *
* IF SECTION, DETAIL, SCHEMATIC OR DIAGRAM IS DRAWN ON THE SAME SHEET THAT IT IS TAKEN FROM, THE SHEET NUMBER IS REPLACED WITH A HYPHEN. IF THE SECTION IS REFERENCED ON MULTIPLE SHEETS, THE SHEET NUMBER SHOWN INDICATES THE FIRST SHEET THE SECTION IS TAKEN FROM.		

SECTION CUT SYMBOLS



DETAIL CALL OUT SYMBOLS



DATE: JULY 26			UTE WATER CONSERVANCY DISTRICT GRAND JUNCTION, CO 81505 PH. (970)242-7491 FX. (970)242-9189	NO.	REVISION	DATE	BY	SUNDANCE DRIVE 6-INCH WATERLINE UPGRADE PROJECT	SYMBOL LEGEND & ABBREVIATIONS	SHEET NO. 2
CAD: F.VARGAS				1						
DESIGN: J.EKLUND				2						
CHECKED: J.EKLUND	VERT. SCALE: N/A			3						
APPROVED: D.PRISKE	HORIZ. SCALE: N/A			4						

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GENERAL NOTES:

1. CONTRACTOR SHALL PROCURE AND CONFORM TO ALL CONSTRUCTION PERMITS REQUIRED.
2. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO UTE WATER DISTRICT STANDARD SPECIFICATIONS.
3. THE LOCATION AND DESCRIPTION OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY NOR THE COMPLETENESS OF SUCH RECORDS. CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION IN THEIR RESPECTIVE AREAS. WHERE NEW FACILITIES CROSS AND A GRADE OR ALIGNMENT MODIFICATION IS NECESSARY, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION.
4. ALL EXISTING FACILITIES ARE TO BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR TO LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF THE UTILITIES AND ENGINEER.
5. REMOVE AND REPLACE ALL EXISTING SIGNS, MAILBOXES, FENCES, LANDSCAPING, ETC., AS REQUIRED TO AVOID DAMAGE DURING CONSTRUCTION. FURNISH, INSTALL, AND REMOVE TEMPORARY FENCE AS REQUIRED.
6. UTE WATER DISTRICT PERSONNEL WILL OPERATE ALL VALVES ON THE EXISTING WATERLINE MAINS.
7. THE WORK SHALL BE PERFORMED IN A MANNER DESIGNED TO MAINTAIN EXISTING WATER SERVICE. SERVICE TO ANY MAIN LINE OR BUILDING SHALL NOT BE INTERRUPTED FOR MORE THAN TWO (2) HOURS ON ANY GIVEN DAY. CONTRACTOR SHALL NOTIFY UTE WATER AND ALL AFFECTED RESIDENCES & BUSINESSES A MINIMUM OF 24 HOURS PRIOR TO ANY INTERRUPTED SERVICE.
8. ALL REQUIRED EXCAVATION MATERIAL NOT MEETING THE REQUIREMENTS FOR BACKFILL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR AT OWN EXPENSE.
9. NO TRENCHES SHALL BE LEFT IN AN OPEN CONDITION OVERNIGHT. ALL TRENCHES SHALL BE CLOSED BEFORE THE END OF EACH WORKING DAY AND NORMAL TRAFFIC FLOWS RESTORED. CONTRACTOR SHALL COMPLETE EACH DAY'S PIPELINE INSTALLATION TO A FINISHED CONDITION BEFORE LEAVING THE JOB SITE FOR THE DAY. THE ONLY EXCEPTION WOULD BE THE ASPHALT CONCRETE RESTORATION WHICH SHALL FOLLOW AS SOON AS PRACTICAL.
10. CONSTRUCTION WATER WILL BE AVAILABLE AT NO COST TO CONTRACTOR AT AN EXISTING APPURTENANCE ALONG THE PROPOSED WATERLINE TO BE USED FOR PROJECT WATER INCLUDING DUST CONTROL AS REQUIRED BY GENERAL CONDITIONS AND FOR MATERIAL MOISTURE-CONDITIONING AND COMPACTION PER SECTION 02226. CONTRACTOR WILL BE RESPONSIBLE FOR WATER TRUCK OR MEANS OF APPLYING WATER INCLUDING HOSES, NOZZLES, AND NECESSARY CONNECTIONS TO UTE FACILITIES. WATER TRUCK SHALL HAVE APPROVED BACKFLOW PREVENTION DEVICES.
11. UTE WATER DISTRICT WILL PROVIDE FOR QUALITY ASSURANCE TESTING, INCLUDING MATERIAL, BACTERIOLOGICAL AND PRESSURE TESTING. CONTRACTOR SHALL PERFORM ALL QUALITY CONTROL TESTING AND COORDINATE WORK SCHEDULE WITH ENGINEERING FIRM FOR QA/QC TESTING.
12. SEED ALL AREAS DISTURBED DURING CONSTRUCTION EXCEPT THOSE TO BE COVERED WITH GRAVEL, RIPRAP, OR CONCRETE. SCARIFY SUBGRADE TO A DEPTH OF 3 INCHES IN ALL AREAS TO BE SEEDED. PRIOR TO SEEDING, APPLY STARTER FERTILIZER AT A RATE OF 5 LBS PER 1000 SQ FT AND LIGHTLY MIX. BROADCAST GRASS SEED MIX AT AN APPLICATION RATE OF 32 LBS PURE LIVE SEED (PLS) PER ACRE AND MIX LIGHTLY INTO PREPARED SUBGRADE. COVER SEEDED AREAS WITH A TACKIFIER AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER.
13. PROVIDE EROSION CONTROL/SEDIMENT BARRIERS (HAY BALES OR SILT FENCE) TO PREVENT SILT FROM MIGRATING TO ADJACENT PROPERTIES AND INTO ANY EXISTING STREAMS (SECTION 02270).
14. TOPOGRAPHY AND SURFACE ELEVATIONS ARE FROM SURVEYS MADE BY UTE WATER. HORIZONTAL COORDINATE BASE IS MCLCS13, WGS 1984 DATUM, MESAC012 GEOID MODEL.
15. TEMPORARY BENCHMARKS AND OFFSETS FOR PIPELINE ALIGNMENT AND PROPOSED GRADE WILL BE ESTABLISHED DURING CONSTRUCTION BY OWNER.
16. CONSTRUCTION TRAFFIC IS LIMITED TO EXISTING ACCESS ROADS.
17. TRENCH SURFACE RESTORATION INCLUDING SURFACE MARKINGS PER MESA COUNTY OR GOVERNING AUTHORITY. PAVEMENT MARKINGS OF STRIPING REMOVED/REPLACED FOR WORK SHALL BE AT CONTRACTORS EXPENSE.

PIPE CONSTRUCTION NOTES:

1. CHLORINATE, FLUSH, OBTAIN APPROVED BACTERIA TEST, AND PRESSURE TEST PRIOR TO COMPLETING TIE-INS TO EXISTING WATERLINES AND SERVICES.
2. TYPICAL TRENCH CONSTRUCTION AND SURFACE RESTORATION REQUIREMENTS ARE SHOWN ON THE PLAN & PROFILE SHEETS, DETAIL SHEET 9 AND SPECIFICATIONS SECTION 02226 AND SECTION 02501.
3. BACKFILL AND COMPACTION REQUIREMENTS ARE CALLED OUT ON THE DRAWINGS AND DEFINED UNDER SPECIFICATIONS SPECIFICATION SECTION 02226.
4. LININGS FOR DUCTILE IRON FITTINGS SHALL BE EITHER CEMENT-MORTAR LINED PER AWWA C104 WITH A SEAL COAT APPLIED MEETING THE REQUIREMENTS OF NSF/ANSI 61 FOR POTABLE WATER OR FUSION BONDED EPOXY LINED WHEN ALSO EPOXY COATED PER AWWA C116.
5. COATINGS FOR DUCTILE IRON FITTINGS MAY EITHER BE ASPHALTIC PER AWWA C110 OR FUSION BONDED EPOXY WHEN ALSO EPOXY LINED PER AWWA C116.
6. PROVIDE POLYETHYLENE ENCASEMENT PER AWWA C105 FOR CORROSION PROTECTION OF ALL DUCTILE IRON PIPE, FITTINGS, AND APPURTENANCES. BACKFILL MATERIAL SHALL BE FREE FROM CINDERS, REFUSE, BOULDERS, ROCKS, STONES, OR OTHER MATERIAL THAT COULD DAMAGE THE POLYETHYLENE. BACKFILL PRACTICE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF AWWA C600 FOR DIP AND AWWA C605 FOR PVC PIPE.
7. JOINT REQUIREMENTS FOR DUCTILE IRON PIPE AND FITTINGS ARE SHOWN ON THE DRAWINGS AND SPECIFIED IN SPECIFICATION SECTION 02667. JOINTS IN BURIED PIPING SHALL BE OF THE PUSH-ON OR MECHANICAL JOINT TYPE PER AWWA C111 EXCEPT WHERE FLANGED JOINTS ARE REQUIRED TO CONNECT TO VALVES OR OTHER APPURTENANCES AS SHOWN ON THE DRAWINGS.
8. ALL MECHANICAL JOINTS SHALL INCLUDE RESTRAINING GLANDS (SECTION 02667) FOR JOINT RESTRAINT AND COR-BLUE BOLTS AND NUTS PER AWWA C111.
9. FLANGED JOINT ENDS SHALL MEET THE REQUIREMENTS OF AWWA C115. COORDINATE FLANGE DRILLING DIMENSIONS AT ALL FLANGED CONNECTIONS. ALL FLANGE BOLTS, NUTS, AND WASHERS SHALL BE ASTM A193 GRADE B8 (STAINLESS STEEL) ACCORDING TO SPECIFICATION SECTION 02667. FLANGE GASKETS SHALL BE 1/8-INCH THICK SYNTHETIC RUBBER, FULL FACE CONFORMING TO THE PIPE MANUFACTURER'S RECOMMENDATIONS.
10. WHERE NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE JOINT DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S RECOMMENDED DEFLECTION.
11. ALL PVC PIPE SHALL BE AWWA C900 DR18 UNLESS OTHERWISE INDICATED WITH DUCTILE IRON FITTINGS IN ACCORDANCE WITH THESE PIPELINE CONSTRUCTION NOTES, AWWA C153 & C110, AND SPECIFICATION SECTION 02667. C900 PVC PIPE SHALL HAVE A MINIMUM PRESSURE RATING OF 235 PSI (DR18) UNLESS SHOWN OTHERWISE ON THE DRAWINGS. C900/RJ PIPE UTILIZING COUPLINGS FOR CONTINUOUS JOINT RESTRAINT AS SHOWN ON DRAWINGS & SPECIFICATIONS MAY BE ACCEPTABLE WITH ENGINEER APPROVAL.
12. ALL VALVES SHALL MEET THE MINIMUM REQUIREMENTS OF AWWA THE LATEST REVISION AND BE NSF/ANSI 61 COMPLIANT. ALL VALVES SHALL BE EPOXY COATED AND LINED. ALL VALVES SHALL BE SUITABLE FOR DIRECT BURY WITH THE EXCEPTION OF THE AR/AV VALVES. SUBMIT RESULTS OF ALL QA/QC VERIFICATION TESTS PER AWWA. INSTALL PER MANUFACTURER'S WRITTEN PROCEDURES.
13. ALL PIPE, VALVES, FITTINGS, AND PIPELINE APPURTENANCES SHALL BE SUITABLE FOR A WORKING PRESSURE OF 100 PSI; TEST PRESSURE OF 150 PSI; AND A SURGE PRESSURE OF 250 PSI. REQUIRED TEST PRESSURE APPLIES AT LOWEST POINT (ELEVATION) BETWEEN STATIONS INDICATED.
14. TRACER WIRE PER SPECIFICATION SECTION 02667 SHALL BE SECURELY ATTACHED ALONG THE TOP OF PIPE CENTERLINE AND EXTENDED INTO EACH AR/AV ASSEMBLY AIR VENT AND FIRE HYDRANTS.
15. AFTER 8-INCH IS PLACED IN SERVICE, ABANDON AND REMOVE ALL APPURTENANCES FOR THE EXISTING 2-INCH AND 3-INCH WATERLINE (INCLUDING VALVE BOXES).
16. ASBESTOS-CONCRETE PIPE REMOVAL IS REQUIRED ON THIS PROJECT. REFER TO SECTION 02667.
17. SUGGESTED CONSTRUCTION SEQUENCE:

17.1. COORDINATE WITH THE DISTRICT TO INSTALL AND CONNECT TEMPORARY CUSTOMER SERVICES

17.2. CONNECT TO EXISTING 6-INCH AC IN 29 ROAD AND VALVES IN INTERSECTION OF SUNRIDGE RD

17.3. INSTALL 8-INCH WATERLINE IN SUNRIDGE RD AND CONNECT TO SUNRIDGE RD AND SUNDANCE DR CUL-DE-SAC's

17.4. INSTALL 6-INCH WATERLINE IN SUNDANCE DR

17.5. COORDINATE WITH THE DISTRICT TO REMOVE TEMPORARY CUSTOMER SERVICES.

TABLE 1 THRUST BLOCK DIMENSIONS

THRUST BLOCK ID	DESCRIPTION	QUANTITY	TEST PRESSURE (psi)	SOIL BEARING CAPACITY (ASSUMED)	MINIMUM BEARING AREA (SQ FT)	ACCEPTABLE MINIMUM DIKMENSIONS (HxW)
1	6" HPI 45'		150	2000 PSF	3.8	2.0' x 2.0'
2	6" HPI 22.5'		150	2000 PSF	3.5	2.5' x 1.5'
3	6"x6" Tee		150	2000 PSF	3.5	2.5' x 1.5'
4	6" HYDRANT		150	2000 PSF	3.8	2.0' x 2.0'
5	6" CAP		150	2000 PSF	5.0	2.5' x 2.0'

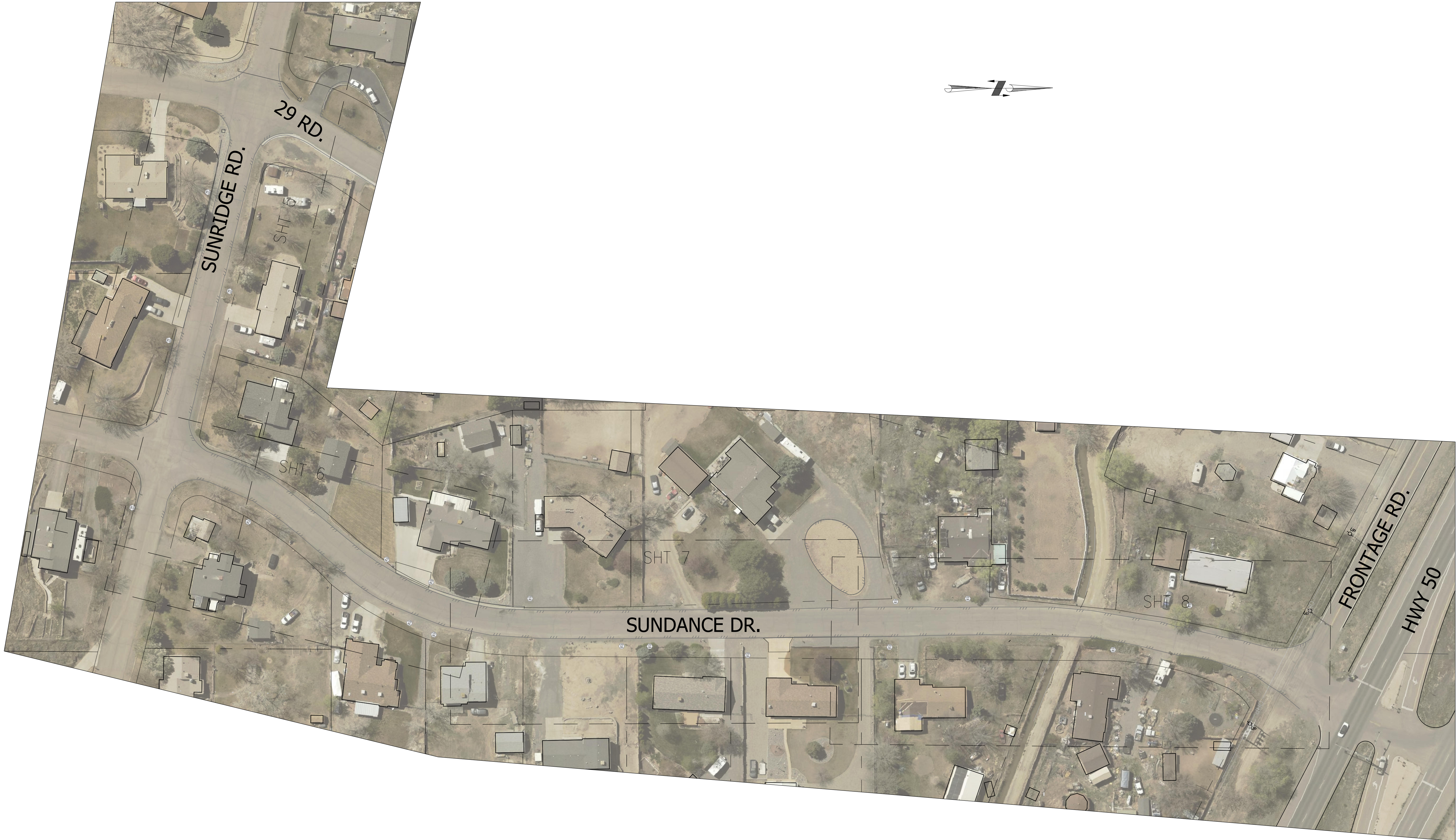
*USING A 1.5 FACTOR OF SAFETY

UTILITY IDENTIFICATION NOTES (UIN):

1. UTILITIES SHOWN ON PLAN & PROFILE SHEETS GENERALLY ALONG THE WATER FACILITY CORRIDOR ARE QUALITY LEVEL A WHEN THE MATERIAL AND DEPTH ARE INDICATED. THOSE UTILITIES ARE PRECISELY MAPPED THROUGH EXPOSURE OF UTILITY (POTHOLING).
2. STORM AND SANITARY SEWERS ARE QUALITY LEVEL A AS DETERMINED BY EXPOSURE OR QUALITY LEVEL B AS DETERMINED FROM ENGINEERING JUDGEMENT.
3. OTHER UTILITIES DEPICTED ARE QUALITY LEVEL C BASED ON SURVEYING VISIBLE ABOVE GROUND UTILITY FACILITIES AND QUALITY LEVEL D BASED ON EXISTING RECORDS AND FIELD LOCATING METHODS.
4. PHONE PEDESTALS, OHP, ELEC TRANSFORMERS AND POWER PEDESTALS, AND OTHER ABOVE GROUND UTILITY FACILITIES (METERS, INLETS, MANHOLES) ARE QUALITY LEVEL C
5. UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEER'S DOCUMENT ASCE 38, "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
6. RELIANCE UPON THESE DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING EXCAVATION.
7. IT IS IMPORTANT THAT THE CONTRACTOR INVESTIGATES AND UNDERSTANDS THE SCOPE OF WORK BETWEEN THE PROJECT OWNER AND THEIR ENGINEER REGARDING THE SCOPE AND LIMITS OF THE UTILITY INVESTIGATIONS LEADING TO THESE UTILITY DEPICTIONS.

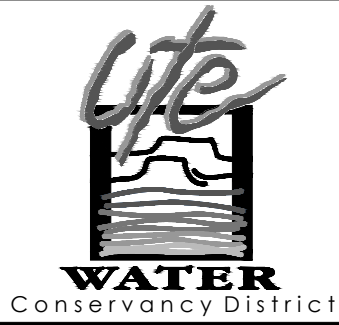
DATE: JULY 26			UTE WATER CONSERVANCY DISTRICT GRAND JUNCTION, CO 81505 PH. (970)242-7491 FX. (970)242-9189	NO.	REVISION	DATE	BY	SUNDANCE DRIVE 6-INCH WATERLINE UPGRADE PROJECT	PROJECT NOTES & TABLES	SHEET NO. 3
CAD: F.VARGAS				1						
DESIGN: J.EKLUND				2						
CHECKED: J.EKLUND	VERT. SCALE: N/A			3						
APPROVED: D.PRISKE	HORIZ. SCALE: N/A			4						

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VERT. SCALE:
HORIZ. SCALE: 1:50



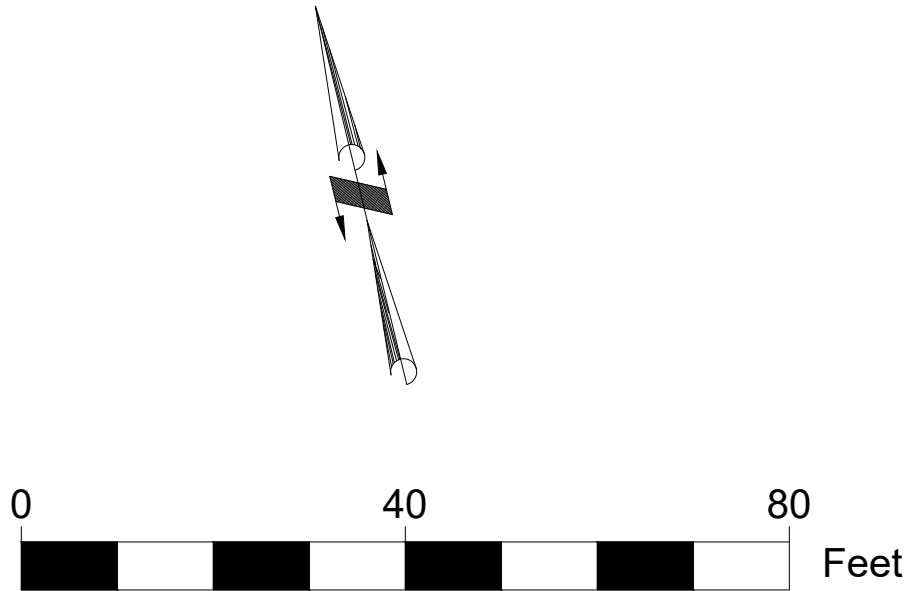
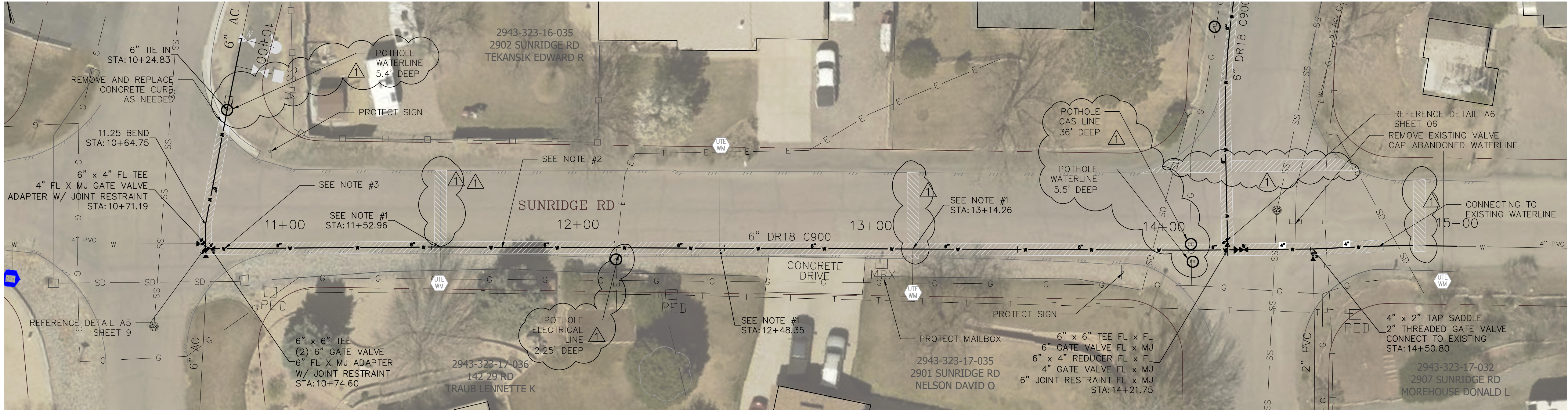
UTE WATER CONSERVANCY DISTRICT
GRAND JUNCTION, CO 81505
PH. (970)242-7491
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NO.	REVISION	DATE	BY
1			
2			
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SUNDANCE DRIVE
6-INCH WATERLINE
UPGRADE PROJECT

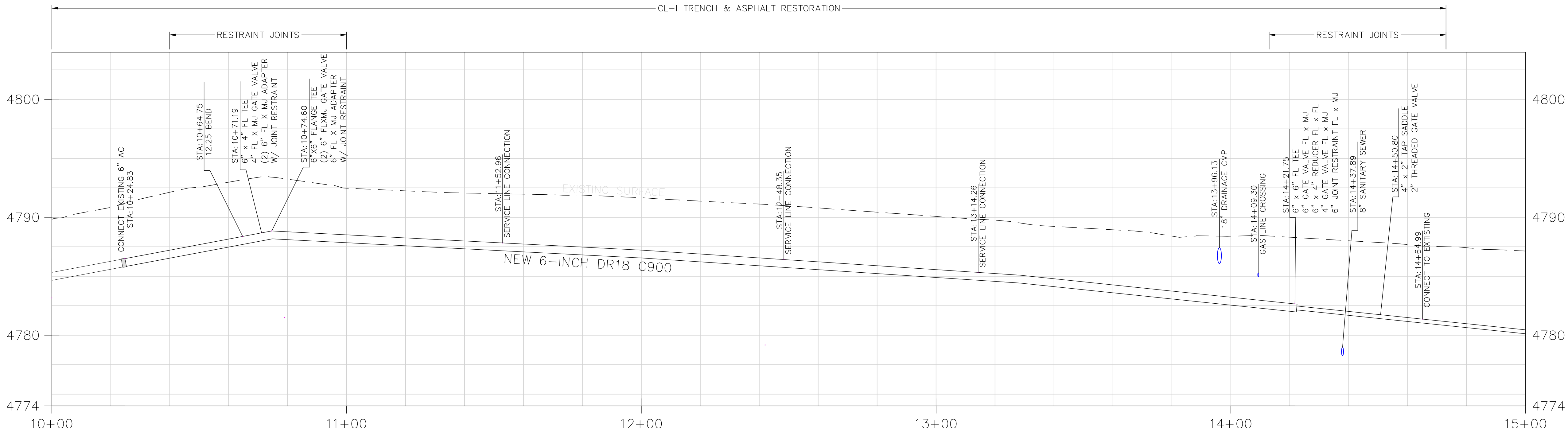
OVERALL SITEPLAN

SHEET NO.
4



NOTES:

- 1) INSTALL 6"x3/4" TAP SADDLE, 3/4" CORP STOP, 3/4" TYPE K COPPER AS REQUIRED, AND CONNECT TO EXISTING 3/4" SERVICE.
- 2) NEW WATERLINE LINE TO BE INSTALLED IN THE EXISTING WATERLINE ALIGNMENT. PRIOR TO CONSTRUCTION OF NEW LINE, TEMPORARY FEED WILL BE INSTALLED AND EXISTING SERVICES TIED IN BY UTE WATER. CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING AC PIPE ACCORDING TO REQUIREMENTS OF GOVERNING AGENCY.
- 3) INSTALL VALVING INDICATED IN DETAIL A5, SHEET 9. DISINFECT (VIA MECHANICAL SWABBING) NEW 6-INCH C900 AND INSTALL 6-INCH HYMAX COUPLING AT INDICATED LOCATION



DATE: July 26
CAD: F.VARGAS
DESIGN: J.EKLUND
CHECKED: J.EKLUND
APPROVED: D.PRISKE

VERT. SCALE: 1:4
HORIZ. SCALE: 1:20



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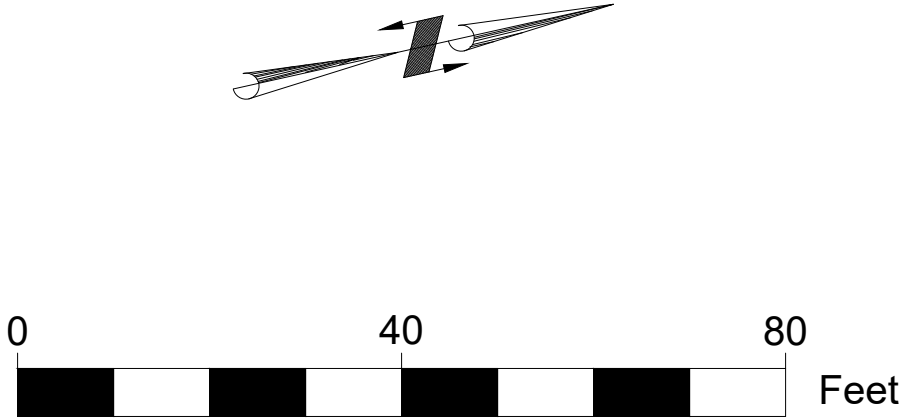
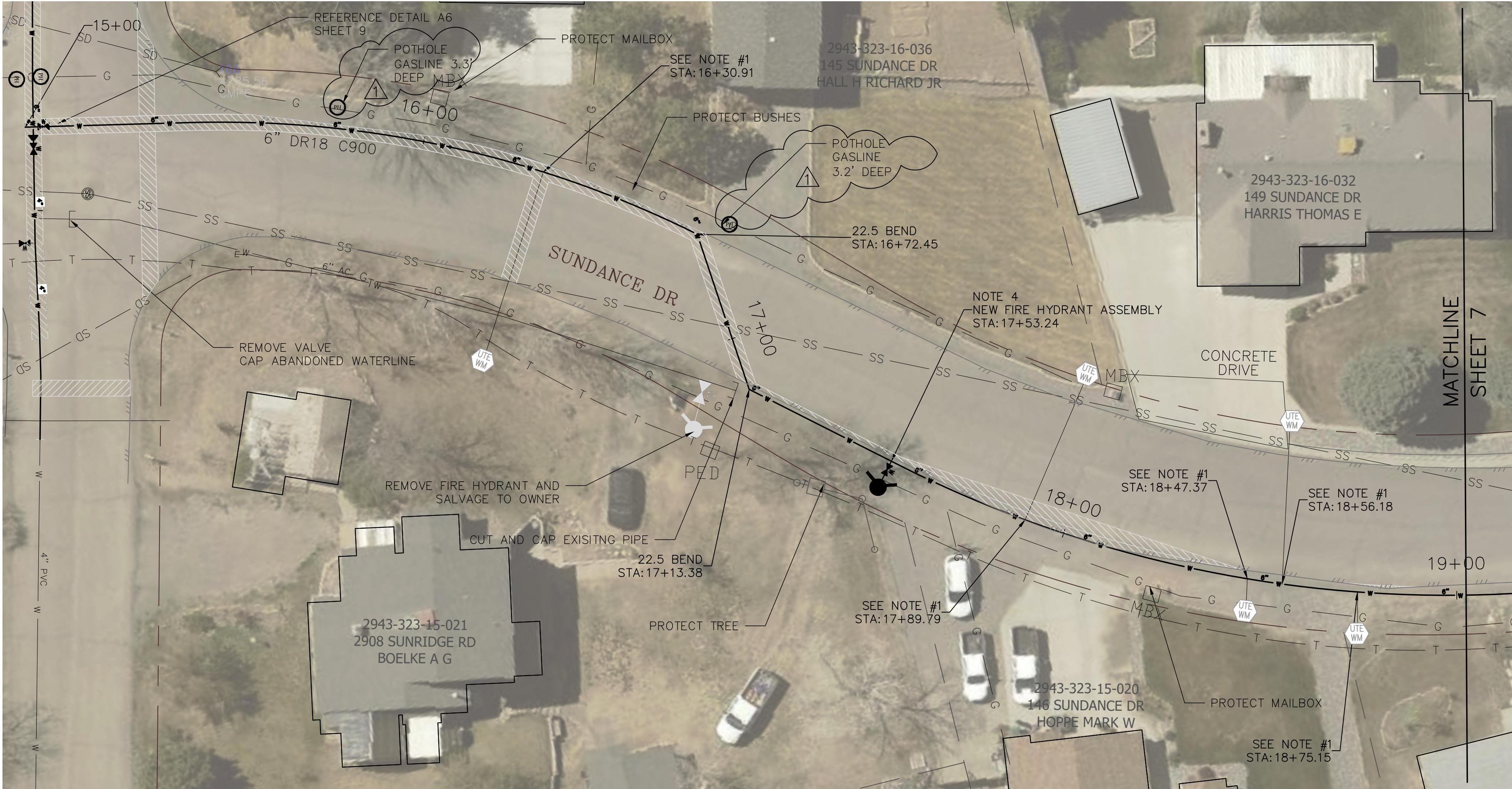
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SUNDANCE DRIVE
6-INCH WATERLINE
UPGRADE PROJECT

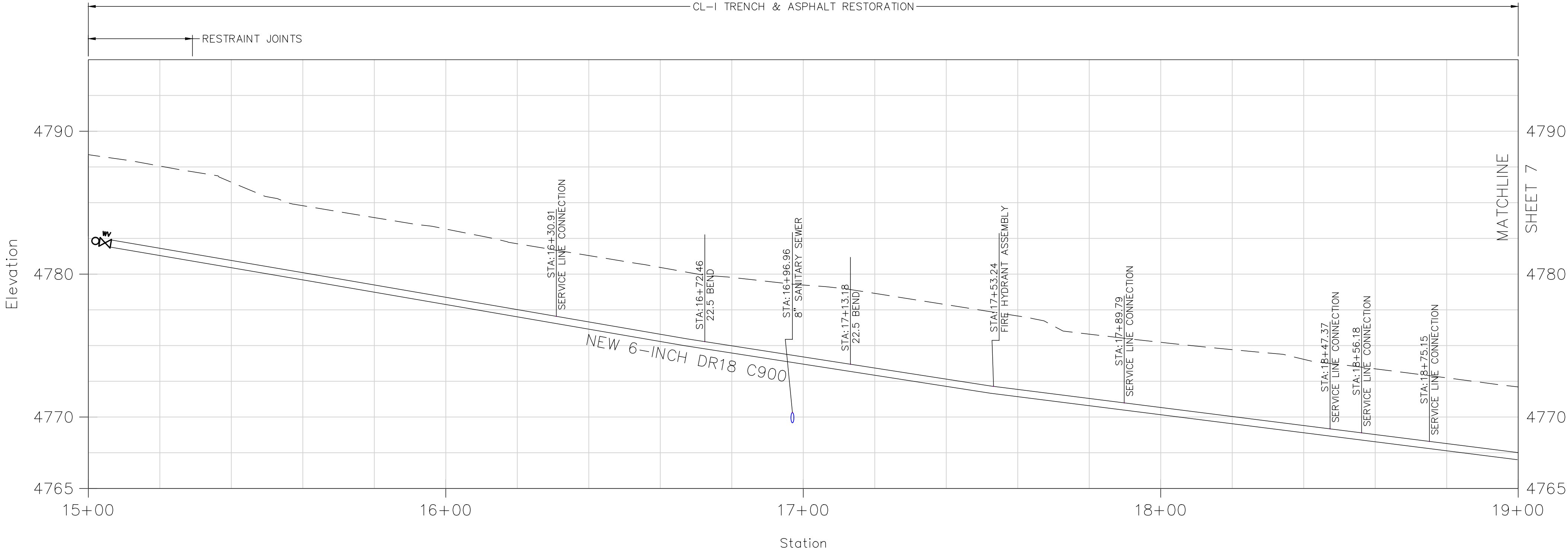
PLAN AND PROFILE
10+00 - 15+00

SHEET NO.

5



- NOTES:
- 1) INSTALL 6"x3/4" TAP SADDLE, 3/4" CORP STOP, 3/4" TYPE K COPPER AS REQUIRED, AND CONNECT TO EXISTING 3/4" SERVICE.
 - 2) NEW WATERLINE LINE TO BE INSTALLED IN THE EXISTING WATERLINE ALIGNMENT. PRIOR TO CONSTRUCTION OF NEW LINE, TEMPORARY FEED WILL BE INSTALLED AND EXISTING SERVICES TIED IN BY UTE WATER. CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING AC PIPE ACCORDING TO REQUIREMENTS OF GOVERNING AGENCY.
 - 3) INSTALL VALVING INDICATED IN DETAIL A, SHEET 9. DISINFECT (VIA MECHANICAL SWABBING) NEW 6-INCH C900 AND INSTALL 6-INCH HYMAX COUPLING AT INDICATED LOCATION.
 - 4) INSTALL 8"x6" MJxFL TEE, 6-INCH FLxMJ VALVE, AND NEW FIRE HYDRANT.



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HORIZ. SCALE: 1:20



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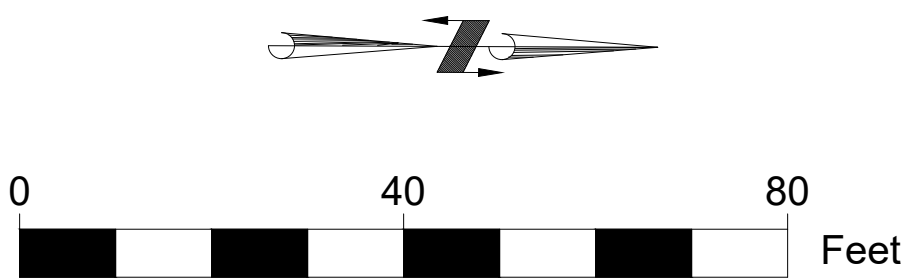
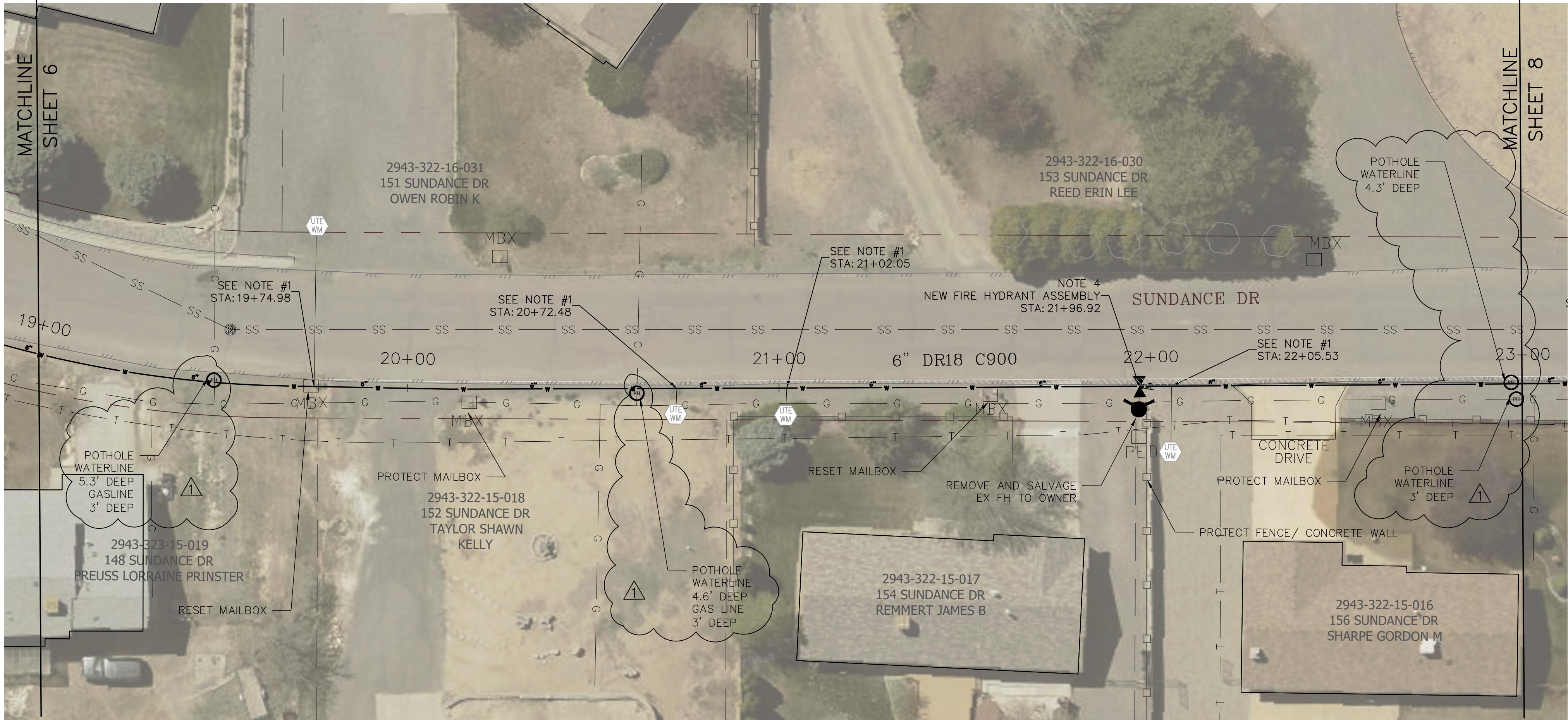
SUNDANCE DRIVE
6-INCH WATERLINE
UPGRADE PROJECT

PLAN AND PROFILE
15+00 - 19+00

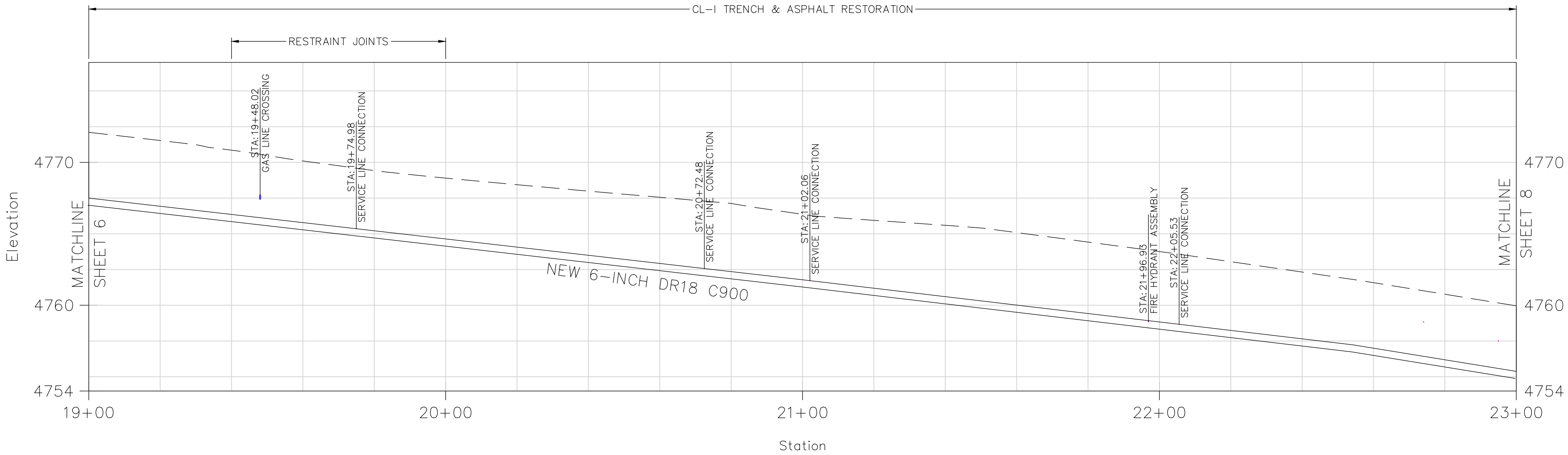
SHEET NO.

6

X:\2_LINE UPGRADES & EXTENSIONS\SUNDANCEDR\60CAD\0DESIGN\SUNDANCE_HWY50_29RD_FV_7-21



- NOTES:
- 1) INSTALL 6"x3/4" TAP SADDLE, 3/4" CORP STOP, 3/4" TYPE K COPPER AS REQUIRED, AND CONNECT TO EXISTING 3/4" SERVICE.
 - 2) NEW WATERLINE LINE TO BE INSTALLED IN THE EXISTING WATERLINE ALIGNMENT. PRIOR TO CONSTRUCTION OF NEW LINE, TEMPORARY FEED WILL BE INSTALLED AND EXISTING SERVICES TIED IN BY UTE WATER. CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING AC PIPE ACCORDING TO REQUIREMENTS OF GOVERNING AGENCY.
 - 3) INSTALL VALVING INDICATED IN DETAIL A, SHEET 9. DISINFECT (VIA MECHANICAL SWABBING) NEW 6-INCH C900 AND INSTALL 6-INCH HYMAX COUPLING AT INDICATED LOCATION.
 - 4) INSTALL 8"x6" MxFL TEE, 6-INCH FLxMJ VALVE, AND NEW FIRE HYDRANT.



DATE: July 26
CAD: F.VARGAS
DESIGN: J.EKLUND
CHECKED: J.EKLUND
APPROVED: D.PRISKE

VERT. SCALE: 1:4
HORIZ. SCALE: 1:20



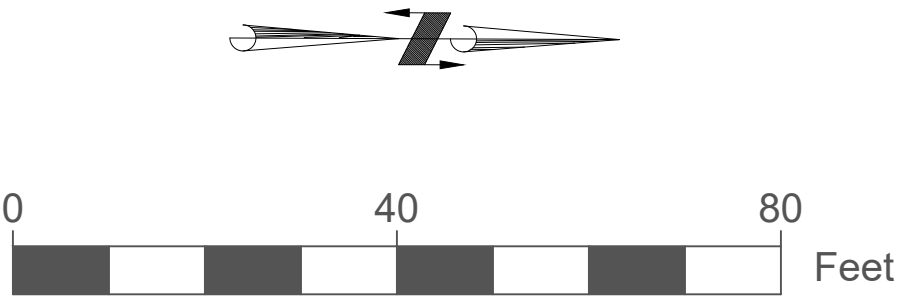
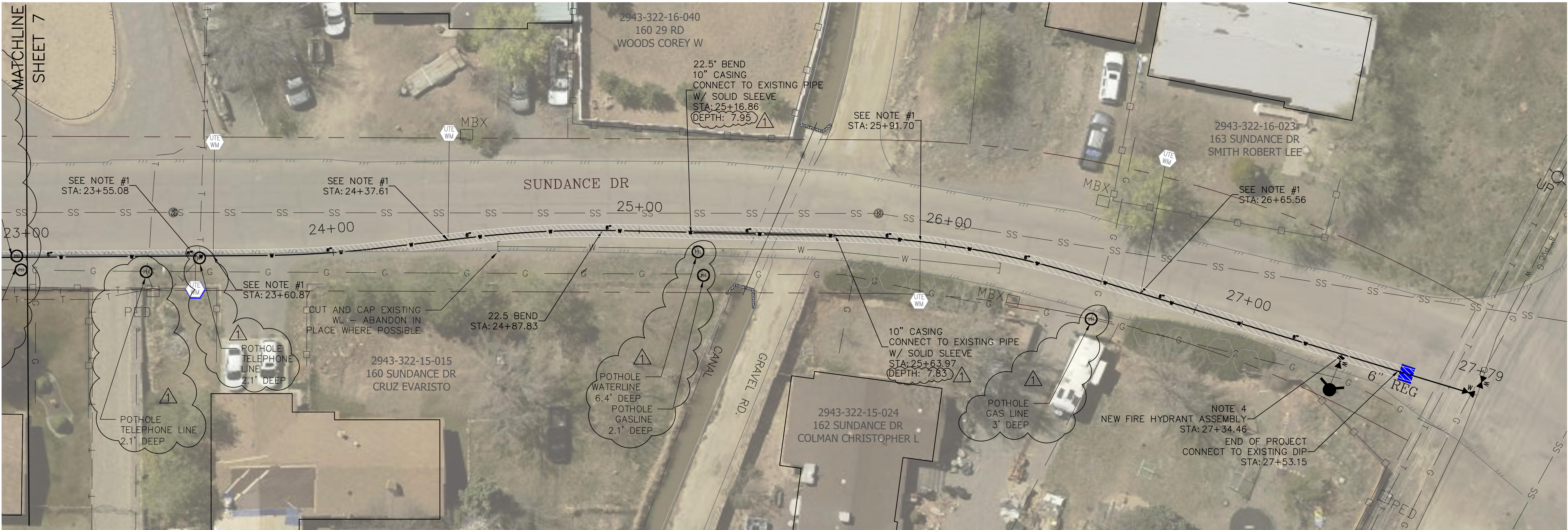
UTE WATER CONSERVANCY DISTRICT
GRAND JUNCTION, CO 81505
PH. (970)242-7491
FX. (970)242-9189

NO.	REVISION	DATE	BY
1	POTHOLE DEPTHS & TEMP ASPHALT CONN.	08/11/26	
3			
4			

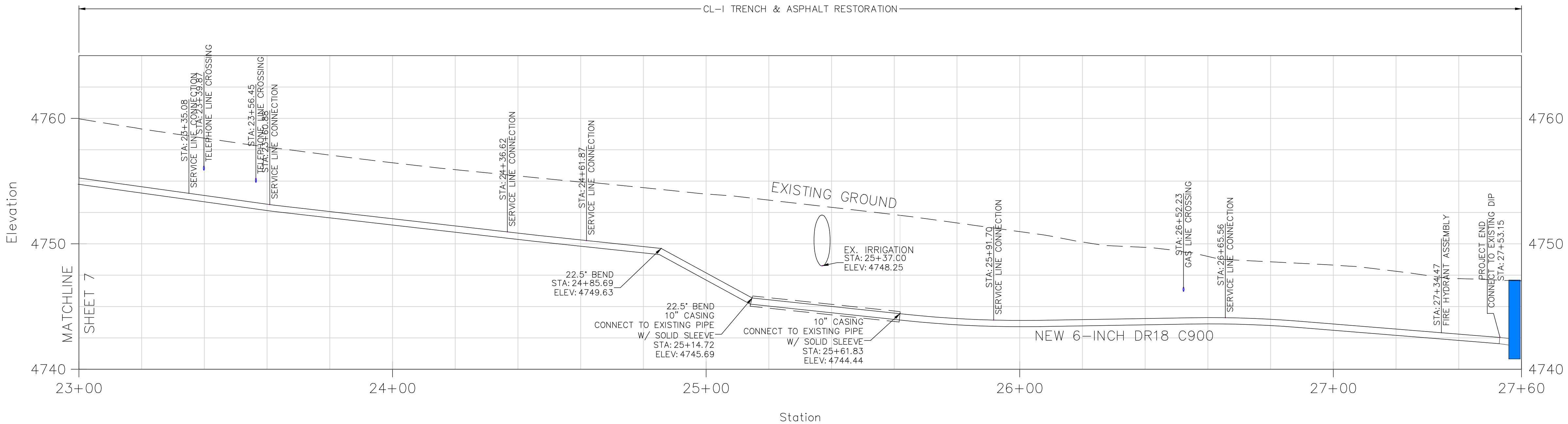
SUNDANCE DRIVE
6-INCH WATERLINE
UPGRADE PROJECT

PLAN AND PROFILE
19+00 - 23+00

SHEET NO.
7



- NOTES:
- 1) INSTALL 6"x3/4" TAP SADDLE, 3/4" CORP STOP, 3/4" TYPE K COPPER AS REQUIRED, AND CONNECT TO EXISTING 3/4" SERVICE.
 - 2) NEW WATERLINE LINE TO BE INSTALLED IN THE EXISTING WATERLINE ALIGNMENT. PRIOR TO CONSTRUCTION OF NEW LINE, TEMPORARY FEED WILL BE INSTALLED AND EXISTING SERVICES TIED IN BY UTE WATER. CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING AC PIPE ACCORDING TO REQUIREMENTS OF GOVERNING AGENCY.
 - 3) INSTALL VALVING INDICATED IN DETAIL A, SHEET 9. DISINFECT (VIA MECHANICAL SWABBING) NEW 6-INCH C900 AND INSTALL 6-INCH HYMAX COUPLING AT INDICATED LOCATION.
 - 4) INSTALL 8"x6" MJxFL TEE, 6-INCH FLxMJ VALVE, AND NEW FIRE HYDRANT.



DATE: May 26
CAD: F.VARGAS
DESIGN: J.EKLUND
CHECKED: J.EKLUND
APPROVED: D.PRISKE

VERT. SCALE: 1:4
HORIZ. SCALE: 1:20



UTE WATER CONSERVANCY DISTRICT
GRAND JUNCTION, CO 81505
PH. (970)242-7491
FX. (970)242-9189

NO.	REVISION	DATE	BY
1	POTHOLE DEPTHS & TEMP ASPHALT CONN.	08/11/26	
2			
3			
4			

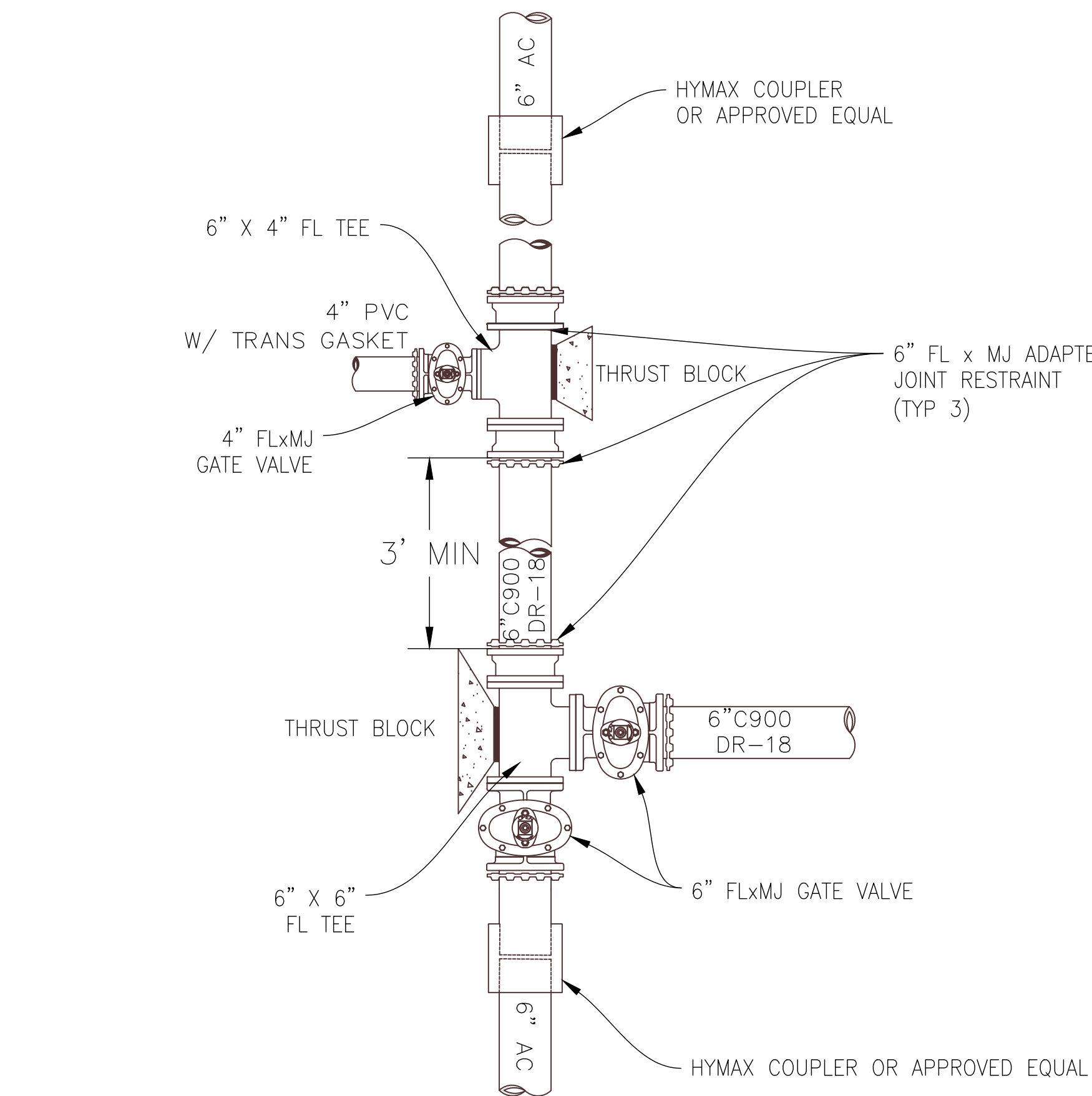
SUNDANCE DRIVE
6-INCH WATERLINE
UPGRADE PROJECT

PLAN AND PROFILE
23+00 - 27+60

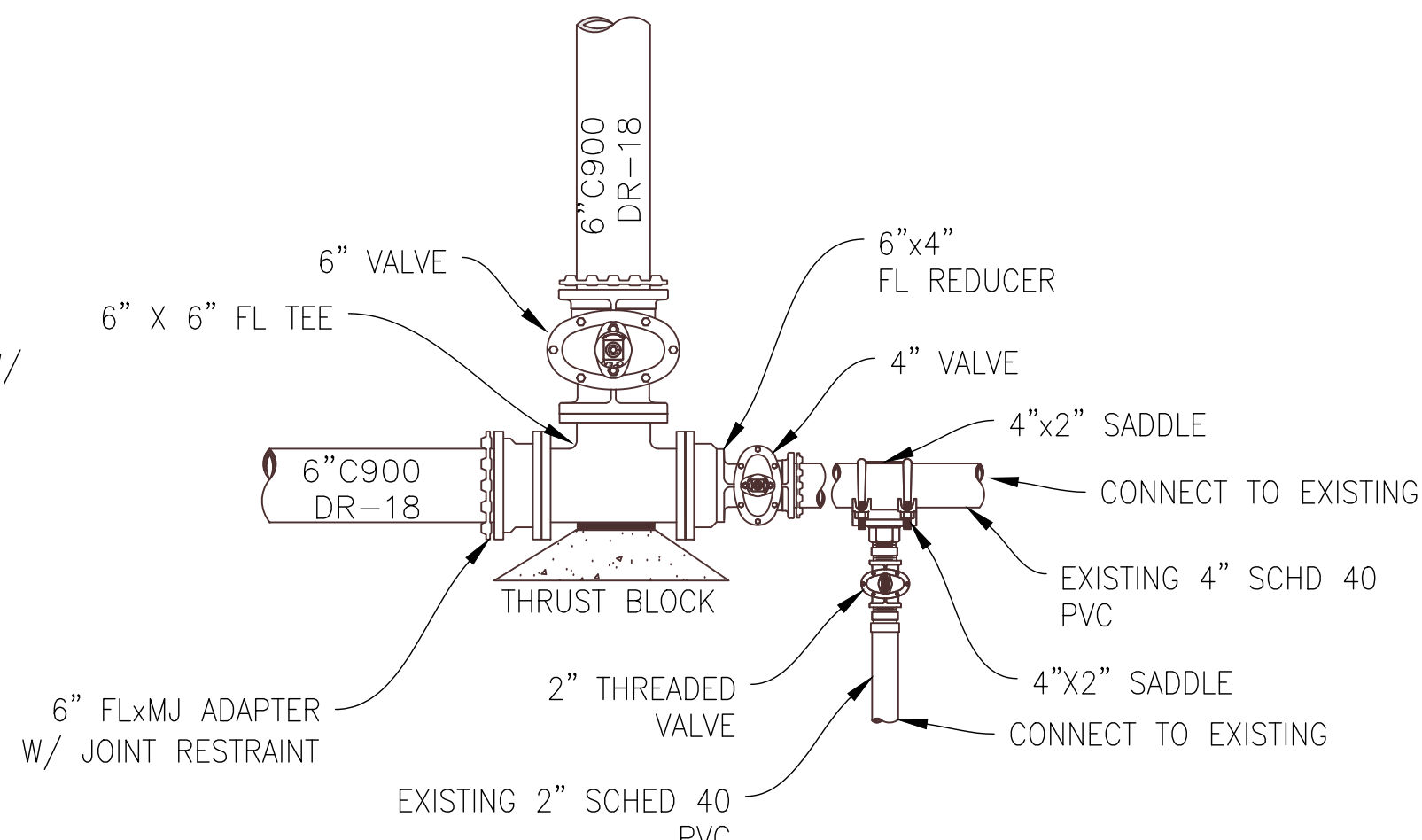
SHEET NO.

8

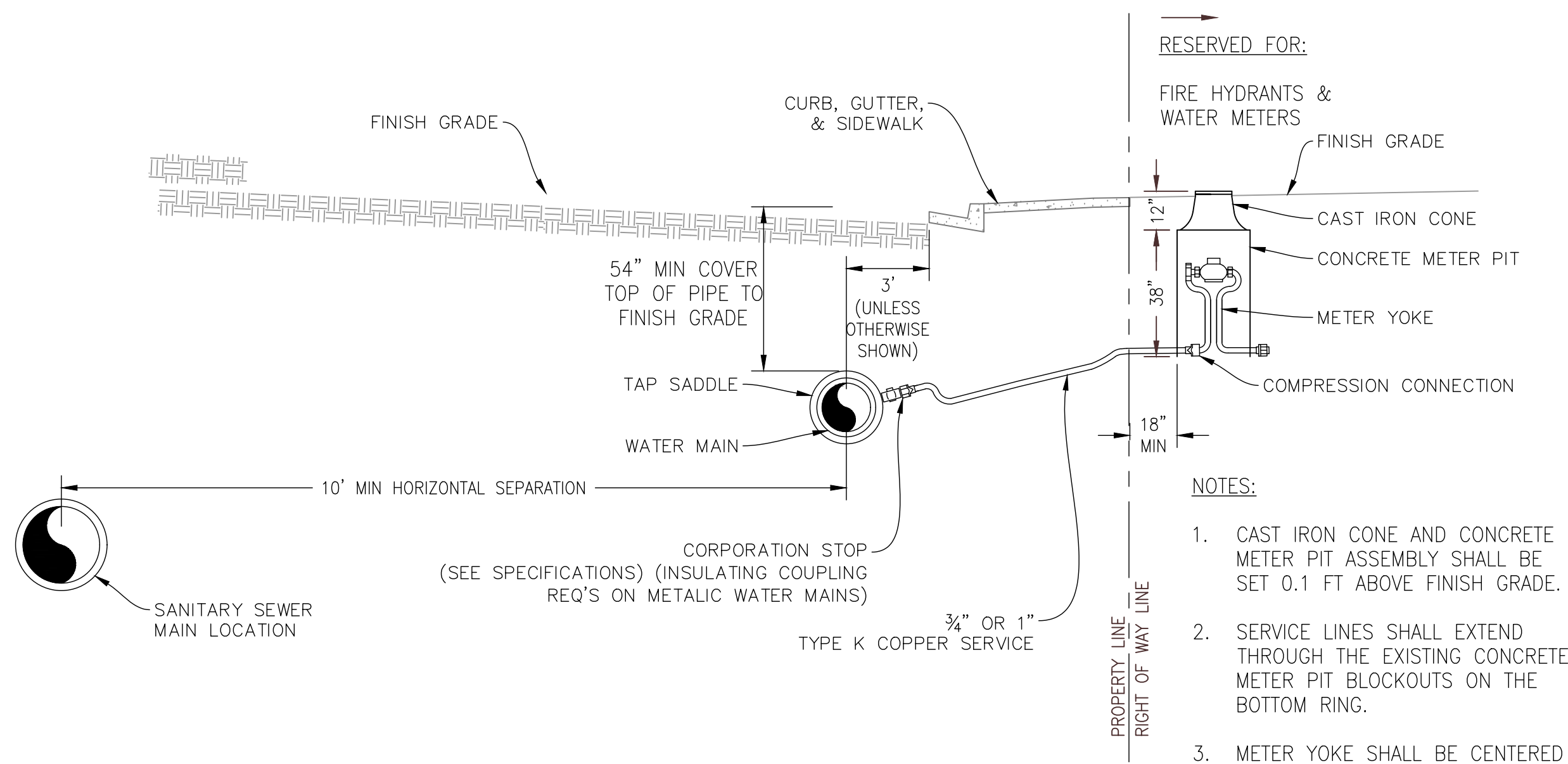
X:\2_LINE UPGRADES & EXTENSIONS\SUNDANCE\60CAD\0DESIGN\SUNDANCE_HWY50_29RD_FV_7-21



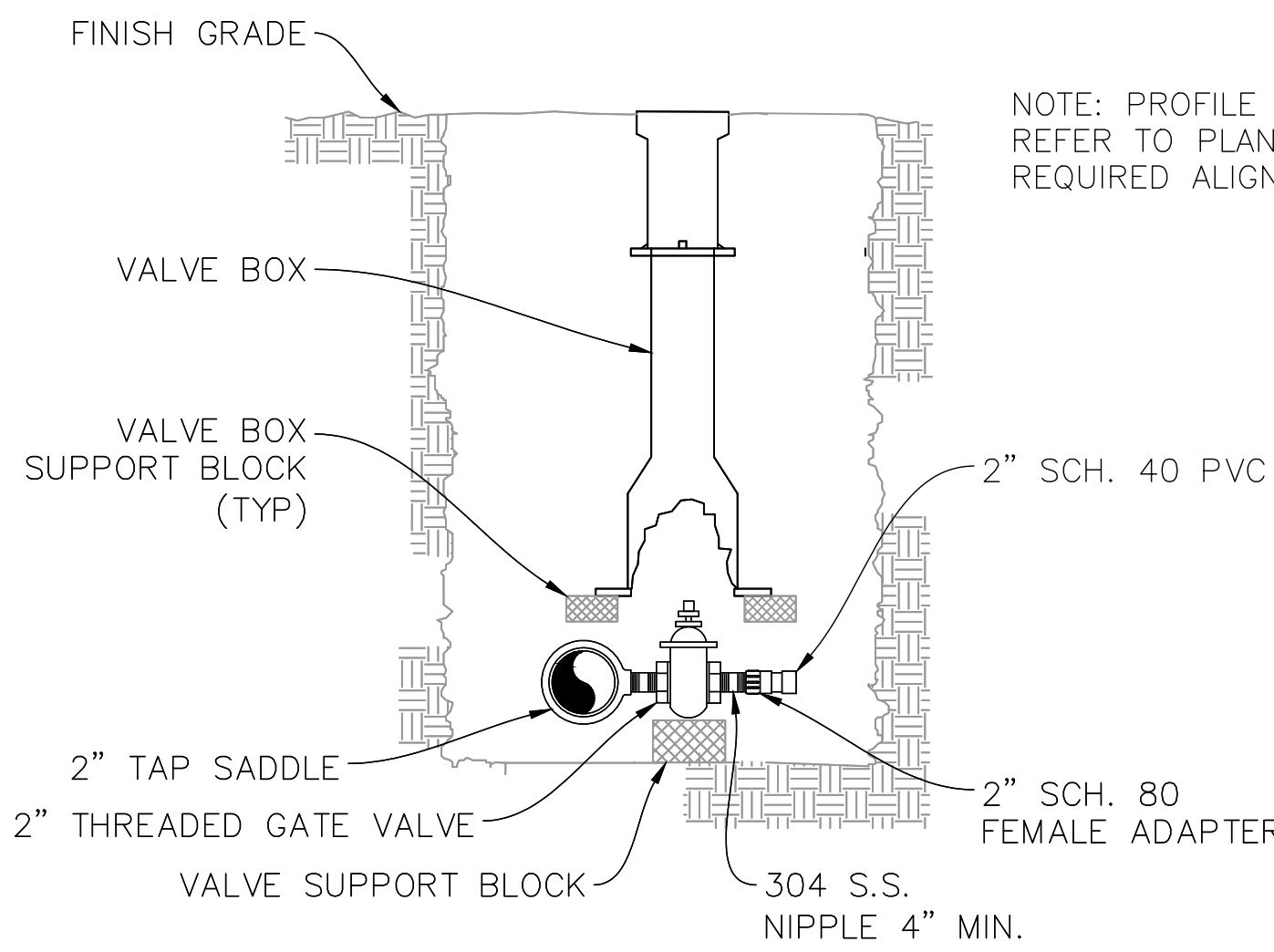
CONNECTION DETAIL A-5
SCALE: NTS
BY UTE WATER



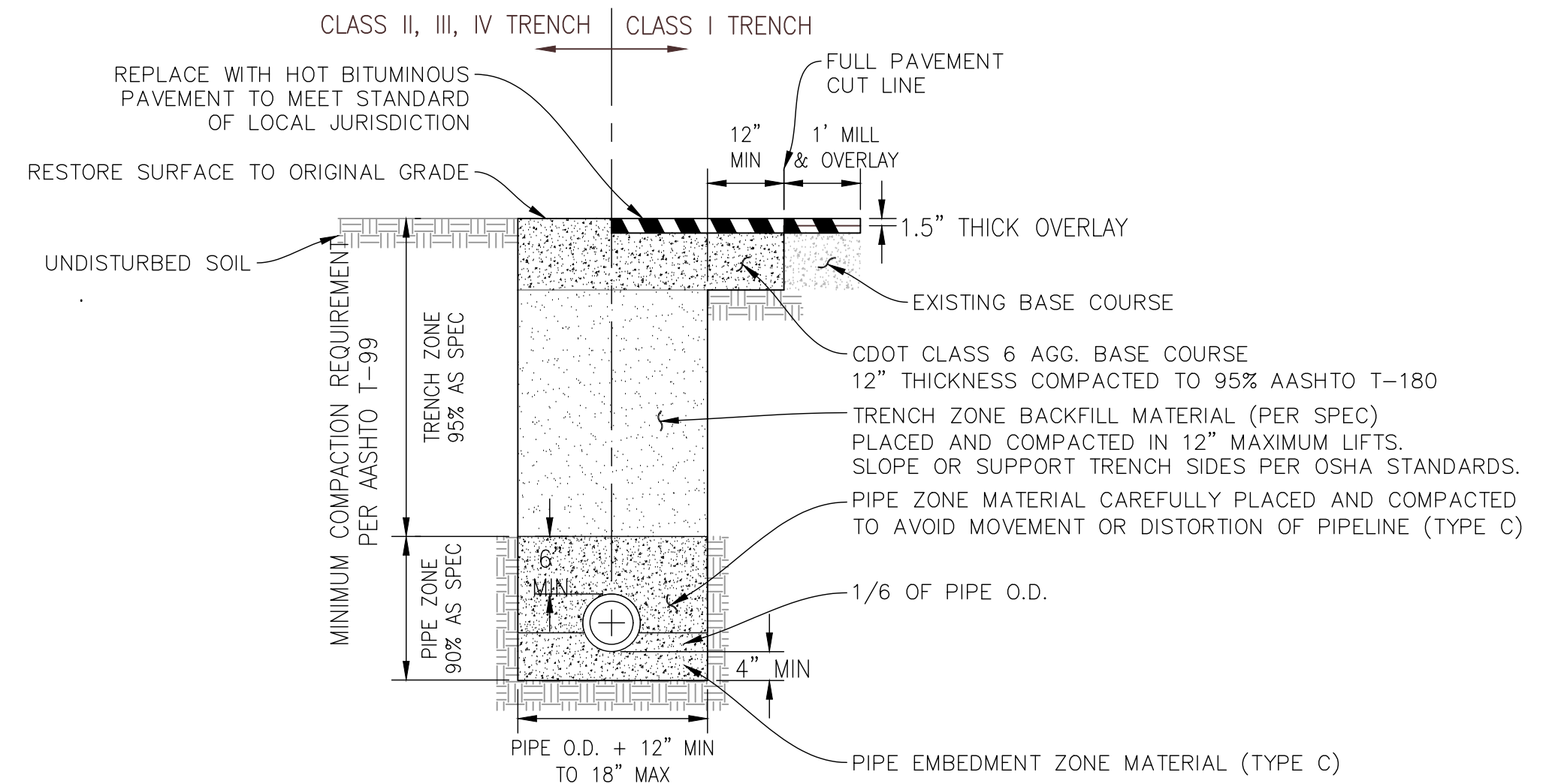
CONNECTION DETAIL A-6
SCALE: NTS



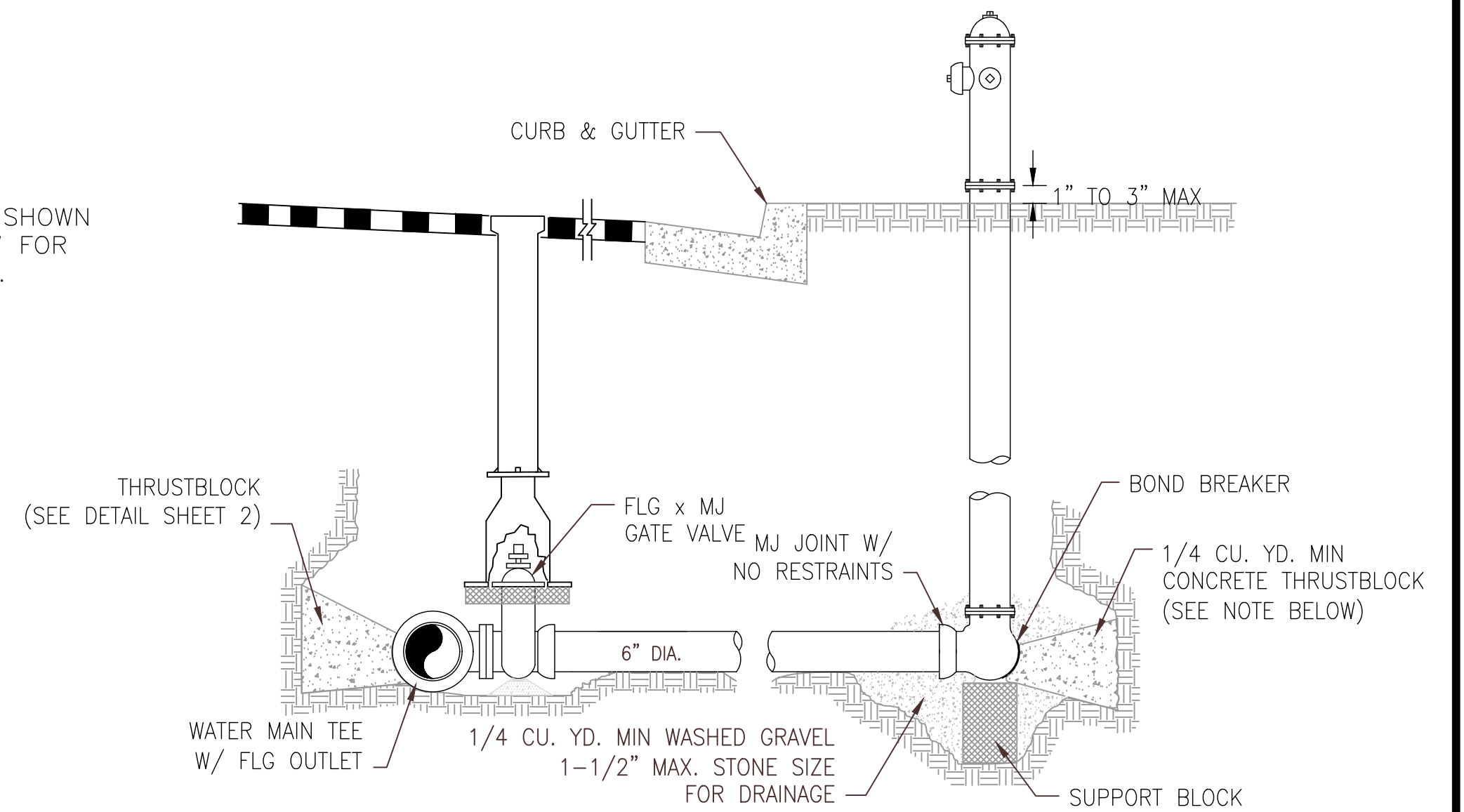
DOMESTIC SERVICE DETAIL E
UTE WATER STANDARD DETAILS
SCALE: NTS



2-INCH VALVE DETAIL D
SCALE: NTS



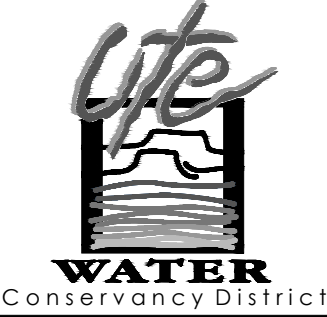
TRENCH DETAIL C
UTE WATER STANDARD DETAILS
SCALE: NTS



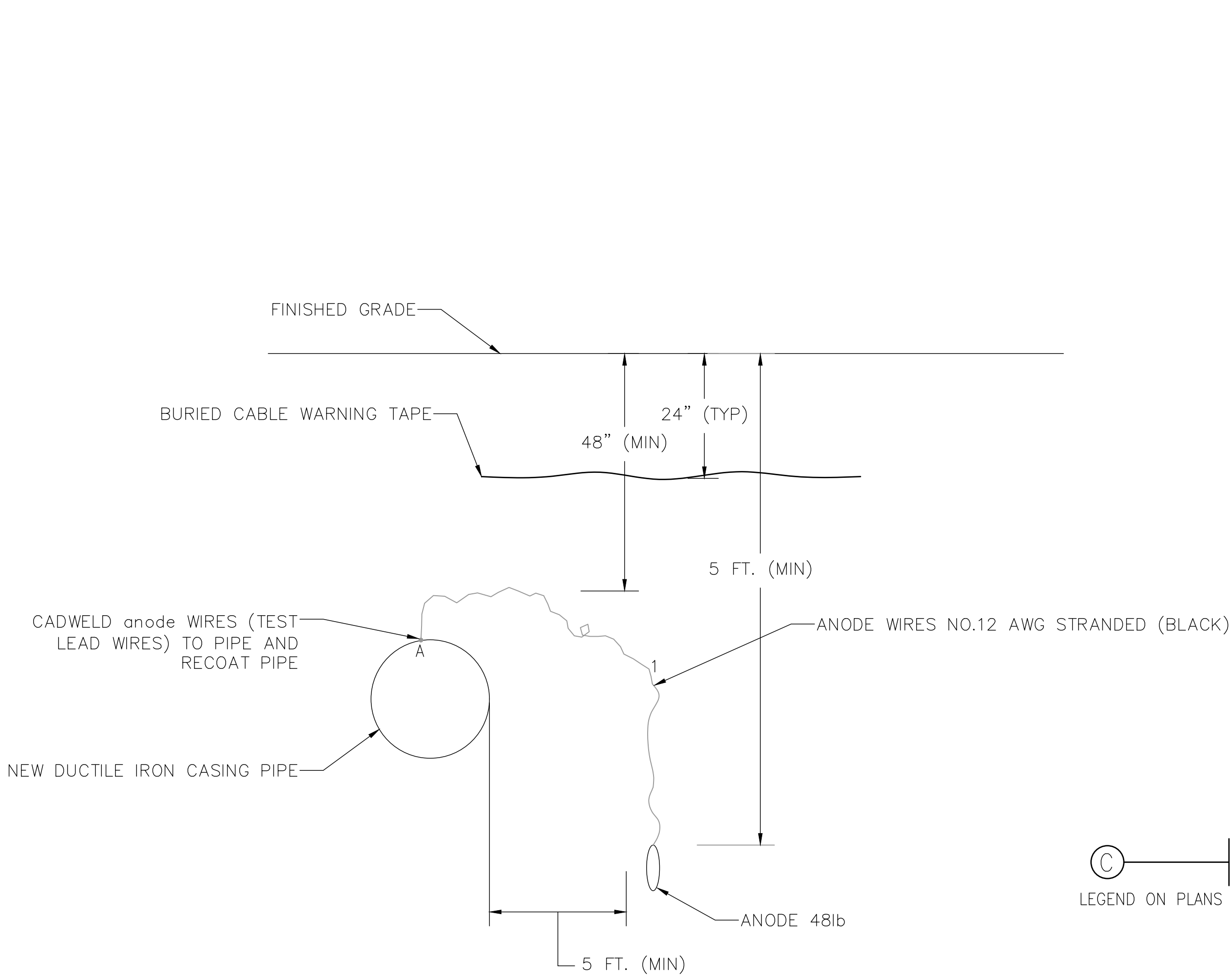
FIRE HYDRANT DETAIL (NOT TO SCALE)

NOTE: FIRE HYDRANTS ARE TO BE PLACED AS SHOWN ON DRAWINGS OR AS DIRECTED BY THE FIRE DEPARTMENT. HYDRANT WEEP HOLES SHALL NOT BE COVERED OR PLUGGED WITH CONCRETE.

FIRE HYDRANT DETAIL F
UTE WATER STANDARD DETAILS
SCALE: NTS

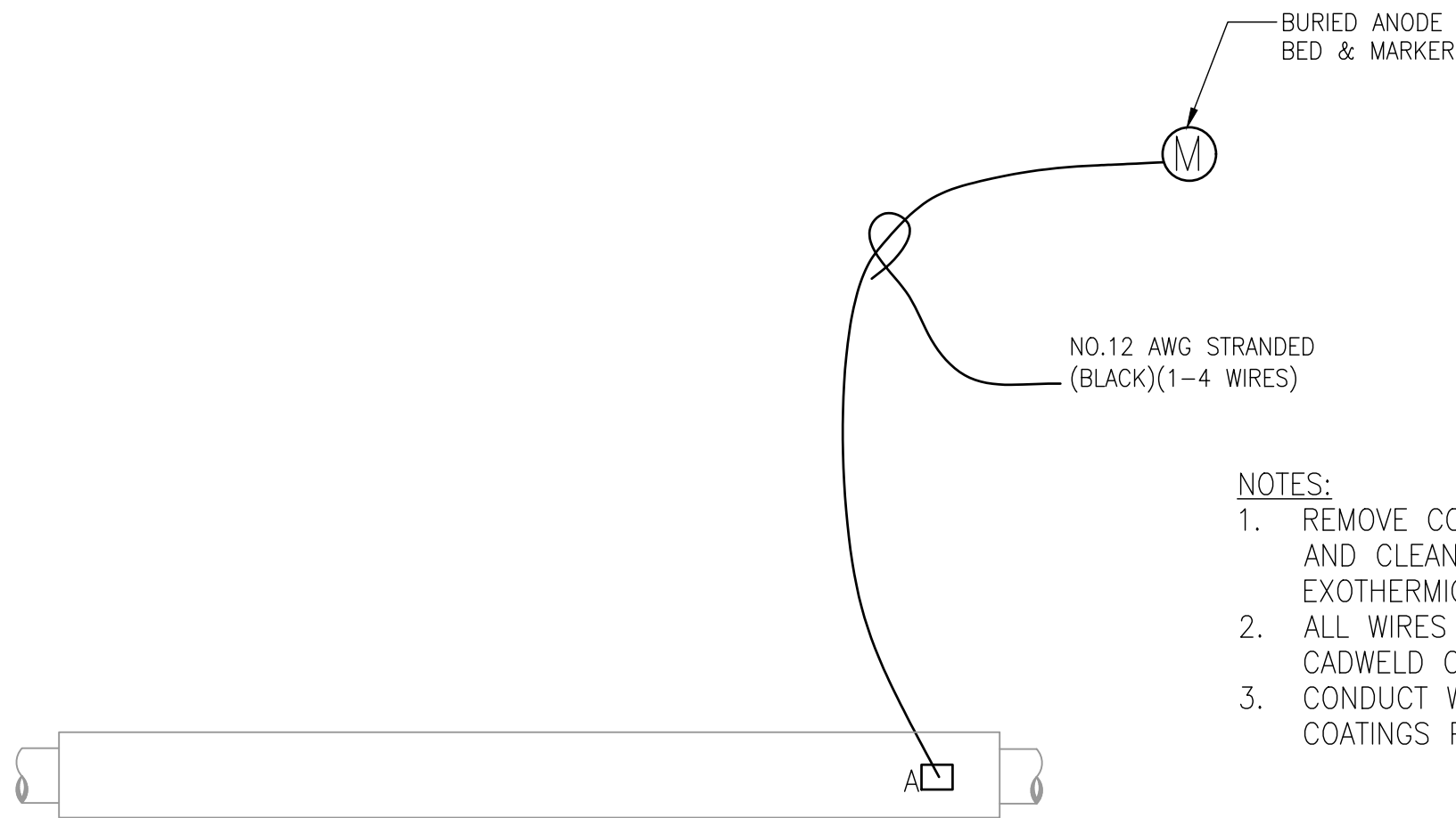
DATE: JULY 26			UTE WATER CONSERVANCY DISTRICT GRAND JUNCTION, CO 81505 PH. (970)242-7491 FX. (970)242-9189	NO.	REVISION	DATE	BY	SUNDANCE DRIVE 6-INCH WATERLINE UPGRADE PROJECT	MISC. DETAILS	SHEET NO. 9
CAD: F.VARGAS				1						
DESIGN: J.EKLUND				2						
CHECKED: J.EKLUND	VERT. SCALE: N/A			3						
APPROVED: D.PRISKE	HORIZ. SCALE: N/A			4						

X:\2_LINE UPGRADES & EXTENSIONS\SUNDANCE\60CAD\0DESIGN\SUNDANCE_HWY50_29RD_FV_7-21



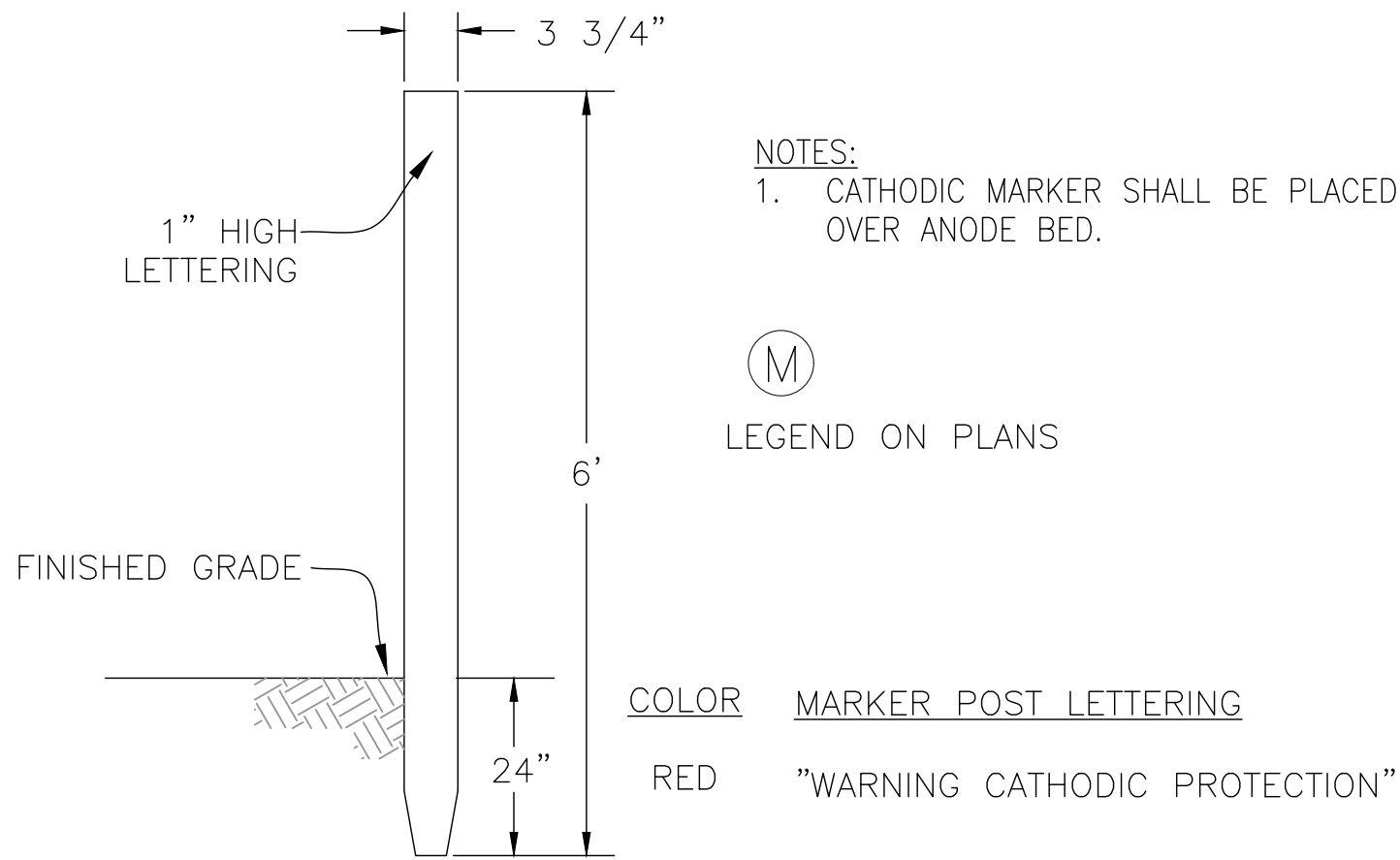
- NOTES:
1. ANODE DEPTH SHALL BE THE PIPE SPRINGLINE OR DEEPER.
 2. ANODES SHALL BE BACKFILLED WITH NATIVE SOILS NOT IMPORTED SELECT BACKFILL.
 3. ANODES MAY BE INSTALLED VERTICALLY OR HORIZONTALLY AND SHALL BE SPACED A MINIMUM OF 5-FT APART.
 4. TEST LEAD WIRES SHALL BE ATTACHED VIA CADWELDING TO THE TOP CENTERLINE OF PIPE AND COATED WITH AN EXOTHERMIC WELD CAP (HANDY CAP).

CASING WITH ANODES DETAIL
SCALE: NTS



- NOTES:
1. REMOVE COATING AREA AS NECESSARY. GROUND METAL TO A BRIGHT FINISH AND CLEAN PRIOR TO CADWELDING, COAT CALDWELD WITH PRIMER, USE EXOTHERMIC WELD CAP AND TAPE WRAP.
 2. ALL WIRES SHALL HAVE SUFFICIENT SLACK TO MINIMIZE STRESS ON THE CADWELD CONNECTIONS
 3. CONDUCT WELD STRENGTH TEST PER SECTION 13110 AND REPAIR DIP COATINGS PER AWWA C209 & AWWAC151. REPECTIVELY

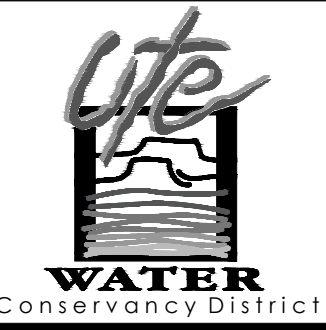
JOINT BONDING DETAIL
SCALE: NTS



- NOTES:
1. CATHODIC MARKER SHALL BE PLACED OVER ANODE BED.

COLOR MARKER POST LETTERING
RED "WARNING CATHODIC PROTECTION"

TEST STATION MARKER DETAIL
SCALE: NTS

DATE: JULY 26			UTE WATER CONSERVANCY DISTRICT GRAND JUNCTION, CO 81505 PH. (970)242-7491 FX. (970)242-9189	NO.	REVISION	DATE	BY	SUNDANCE DRIVE 6-INCH WATERLINE UPGRADE PROJECT	CATHODIC DETAILS	SHEET NO. 10
CAD: F.VARGAS				1						
DESIGN: J.EKLUND				2						
CHECKED: J.EKLUND				3						
APPROVED: D.PRISKE	VERT. SCALE: N/A			4						
	HORIZ. SCALE: N/A									