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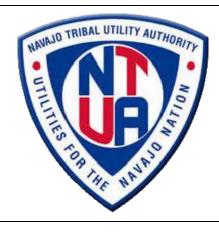
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SALT LAKE CITY, UTAH

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL OF A DULY **REGISTERED PROFESSIONAL**

60% SUBMITTAL



WESTWATER WATER SYSTEM DESIGN

	REVISIONS					
REV DATE DESCRIPTION						
	1_	LINE IS 2 INCHES				
		AT FULL SIZE				
DESI	GNED: (C. WILLMORE				
DRAV	VN: I	D. DAVIDSE				
CHECKED:						
CHEC	KED: -					
APPR	OVED: S	S. BRENCHLEY				

FILENAME G-000.DWG BC PROJECT NUMBER 158815 CLIENT PROJECT NUMBER

GENERAL

COVER SHEET

DRAWING NUMBER G-000 XX SHEET NUMBER OF XX

_	1	2	3
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			SHEET NUMBER
			GENERAL
			XX
			XX
			XX
			XX
			CIVIL
			XX
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			XX
			XX
		_	-
	1	2	3

4

DRAWING INDEX

SHEET NUMBER	DRAWING NUMBER	DESCRIPTION
GENERAL		
XX	G-000	COVER SHEET
XX	G-001	DRAWING INDEX
XX	G-002	STANDARD SYMBOLS
XX	G-003	STANDARD ABBREVIATIONS
CIVIL		
XX	C-001	GENERAL CIVIL NOTES AND SYMBOLS
XX	C-002	NTUA DETAILS - 1
XX	C-003	NTUA DETAILS - 2
XX	C-004	NTUA DETAILS - 3
XX	C-005	IHS DETAILS
XX	C-100	KEY MAP
XX	C-101	PLAN AND PROFILE STA 100+00 TO STA 108+00
XX	C-102	PLAN AND PROFILE STA 108+00 TO STA 116+00
XX	C-103	PLAN AND PROFILE STA 116+00 TO STA 124+00
XX	C-104	PLAN AND PROFILE STA 124+00 TO STA 131+00
XX	C-105	PLAN AND PROFILE STA 131+00 TO STA 138+63.74
XX	C-106	PLAN AND PROFILE STA 200+00 TO STA 205+13.67
XX	C-107	PLAN AND PROFILE STA 300+00 TO STA 307+00
XX	C-108	PLAN AND PROFILE STA 307+00 TO STA 315+00
XX	C-109	PLAN AND PROFILE STA 315+00 TO STA 323+00
XX	C-110	PLAN AND PROFILE STA 323+00 TO STA 327+62.29
XX	C-111	PLAN AND PROFILE STA 400+00 TO STA 407+00
ХХ	C-112	PLAN AND PROFILE STA 407+00 TO STA 412+37.09



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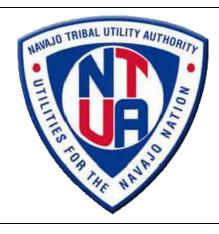
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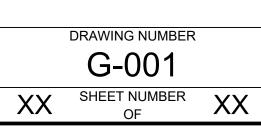
WESTWATER WATER SYSTEM DESIGN

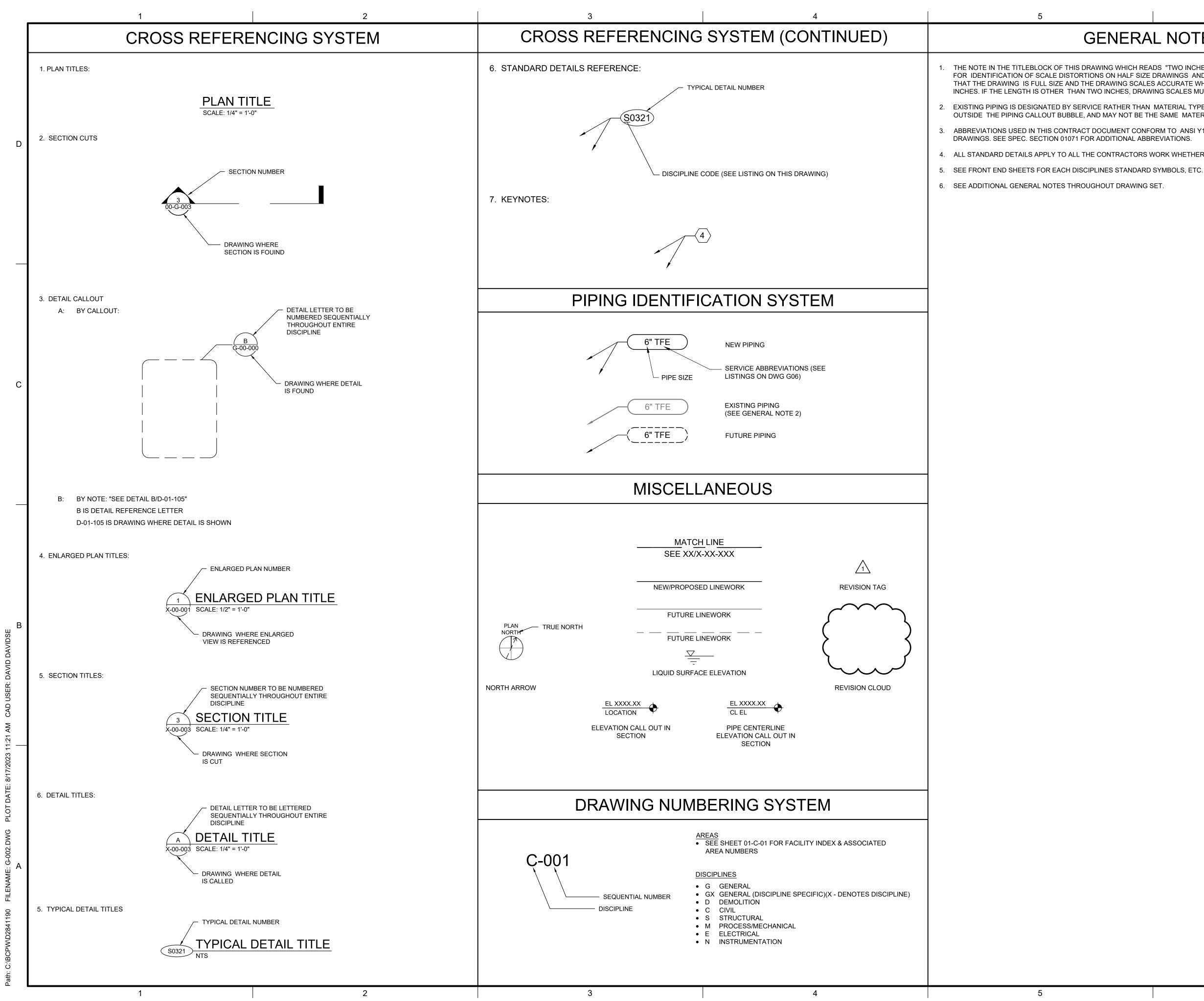
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DRAWN:		D. DAVIDSE			
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CHECKED: ----APPROVED: S. BRENCHLEY FILENAME G-001.DWG BC PROJECT NUMBER 158815 CLIENT PROJECT NUMBER

GENERAL

DRAWING INDEX





GENERAL NOTES

THE NOTE IN THE TITLEBLOCK OF THIS DRAWING WHICH READS "TWO INCHES AT FULL SCALE" APPEARS ON DRAWINGS FOR IDENTIFICATION OF SCALE DISTORTIONS ON HALF SIZE DRAWINGS AND DRAWING REPRODUCTIONS. IT SHALL MEAN THAT THE DRAWING IS FULL SIZE AND THE DRAWING SCALES ACCURATE WHEN THE LENGTH OF THIS LINE IS TWO INCHES. IF THE LENGTH IS OTHER THAN TWO INCHES, DRAWING SCALES MUST BE ADJUSTED ACCORDINGLY.

2. EXISTING PIPING IS DESIGNATED BY SERVICE RATHER THAN MATERIAL TYPE. MATERIAL TYPES, IF KNOWN, APPEAR OUTSIDE THE PIPING CALLOUT BUBBLE, AND MAY NOT BE THE SAME MATERIAL TYPES SPECIFIED FOR NEW PIPING.

ABBREVIATIONS USED IN THIS CONTRACT DOCUMENT CONFORM TO ANSI Y1.1, UNLESS NOTED OTHERWISE ON

4. ALL STANDARD DETAILS APPLY TO ALL THE CONTRACTORS WORK WHETHER SPECIFICALLY REFERENCED OR NOT.



		ARV AS ATP ATS AV	A V A A
		BAC BAV BC BCR BCOP BFP BFV BGAT BF BHP BSN BUV	B. B. B. B. B. B. B. B. B. B. B. B. B.
	С	CAB CAF CAV CC C-C CCP CDP CDP CDP CDP CDP CDP CDP CDP CD	
	В	CMC CML CMPA CNTL CO2 COD COF COM CON CON CON CON CON CON CON CON CON CON	MCCACCCCCCCCCCCCCCCCCCC
1/2023 11:21 AM CAD USER		DB DF DFD DG DI DM DR DT DU DWF	ם ם ם ם ם ם ם
UZ841190 FILENAME: G-UU3.DWG PLOT DATE: 8/1//2023 11:21 AM CAD USER: DAVID DAVIDSE	Α	EA EAT EAU EC ECU ED EE EF EG EJ EL ELL	
102847790		NOTES	S: Additic

A AC A/C ACC ACP ACST ACU AF AHU AMD .ANC AR ARV AS ATP ATS AV BAC BAV BC BCR BCOP BFP BFV BGAT BF BHP BSN BUV	AMPERE ASPHALTIC CONCRETE AIR CONDITIONING AREA CONTROL CENTER ASBESTOS CEMENT PIPE ACOUSTIC AIR CONDITIONING UNIT AIR FILTER AIR HANDLING UNIT AIR MONITORING DEVICE ANCHOR AIR RETURN AIR RELEASE VALVE AIR SUPPLY VERTICAL TURBINE PUMP AIR RELEASE VALVE AUTOMATIC TRANSFER SWITCH ANGLE VALVE BACTERIOLOGICAL BALL VALVE BEGINNING OF CURVE BEGINNING OF CURVE BEGINNING OF CURVE BEGINNING OF CURVE BEGINNING OF CURVE BACK FLOW PREVENTER BUTTERFLY VALVE BOOLEAN GATE BLIND FLANGE BRAKE HORSEPOWER BAR SCREEN BUTTERFLY VALVE
CAB CAF CAV CC C-C CCP CDR CDR CDR CDR CDR CDR CDR CDR CDR CDR	DIRECT BURIAL CABLE COMBUSTION AIR FAN COMBO AIR VALVE COOLING COIL CENTER TO CENTER CONCRETE CYLINDER PIPE CONCRETE LINED AND COATED STEEL PIPE CEILING DIFFUSER CONDUCTOR CONDUCTOR CONDENSING UNIT CEILING EXHAUST DIFFUSER CEILING EXHAUST REGISTER CUBIC FEET CUBIC FEET PER HOUR CODE OF FEDERAL REGULATIONS CHILLER CIRCUMFERENCE CHECKER PLATE CENTERLINE CLEARANCE CHLORINE MANUAL CONTROL STATION MANUAL CONTROL STATION MANUAL CONTROL STATION CEMENT MORTAR LINED ASBESTOS PROTECTED CORRUGATED METAL PIPE CONTROL CARBON DIOXIDE CHEMICAL OXYGEN DEMAND COULING AIR FAN COMMINUTOR CONVEYOR CONDUCTIVITY CONNECTION COMFESSOR CHLORINATED POLYVINYL CHLORIDE CONTRUL COMPRESSOR CHLORINATED POLYVINYL CHLORIDE CONTINUED COMPRESSOR CHLORINATED POLYVINYL CHLORIDE CONTRUL TACK CHEMICAL FEEDER CRAME CORRUGATED RUBBER EXPANSION JOINT CEILING SUPPLY DIFFUSER CONTROL CONTROL UNIT CONTROL VALVE
DB DE DF DG DI DM DR DT DU DWF	DUCT BANK DENSITY METER DRINKING FOUNTAIN DUCT FIRE DAMPER DOOR GRILLE DUCTILE IRON DAMPER MOTOR DRAIN ROCK DRAIN TRAP DRIVE UNIT DRY WEATHER FLOW
EA EAT EAU EC ECU ED EE EF EG EJ EL ELL	EXHAUST AIR / ENVIRONMENTAL ASSESSMENT ENTERING AIR TEMPERATURE ENGINE ALTERNATOR UNIT END OF CURVE EVAPORATIVE COOLING UNIT EXTRACTOR DAMPER, EQUIPMENT DRAIN EACH END EXHAUST FAN EFFLUENT EXHAUST GRILLE EXPANSION JOINT ELEVATION ELBOW

D

ENCL E/P EQ EQUIP ES EWEF EWT	EMBEDDED ENCLOSURE ELECTRIC/PNEUMATIC EVAPORATOR EQUAL EQUIPMENT EXISTING SURFACE EACH WAY EACH FACE ENTERING WATER TEMPERATURE EXHAUST GRILLE EXISTING
FCL FCR FE FF F-F FH FIN FIT FLC FLP FLR FLT FM FMH FMX FO FP	FLOW INDICATING TRANSMITTER FLOW LINE FLOCCULATOR FLUID POWER UNIT FLOOR
G GAC GB GBV GDR GEN GFI GPD GRDR GRT GSP GT GV	POWER ACTUATED GATE GRANULATING ACTIVATED CARBON GRADE BREAK GLOBE VALVE GRINDER GENERATOR GROUND FAULT INTERRUPTOR GALLONS PER DAY GRINDER GROUT GALVANIZED STEEL PIPE GATE GATE VALVE
H/A HC HEX HDOT HG HHV HOA HOR HP HR HSS HTV HV HV HVV HVAC HWTR HYDT ICN	HAND AUTO HEATING COIL HEAT EXCHANGER HEAVY DUTY OILTIGHT MERCURY, HAND GRADE HEAT HOSE VALVE HAND-OFF-AUTO HORIZONTAL HIGH PRESSURE, HIGH POINT, HORSEPOWER HANDRAIL, HEAT RESERVOIR HIGH SIGNAL SELECT HIGH TEMPERATURE VENT HOSE VALVE HEATING AND VENTILATING HEATING, VENTILATING AND AIR CONDITIONING HIGH WATER HYDRANT INCINERATOR
IF IL INF INS INTER INT INV IT	INSIDE FACE INDICATING LAMP INFLUENT INSULATE(D)(ION) INTERMEDIATE INTERIOR INVERT INSTRUMENT TAP
JST K KV KVA KVAR KW	JOIST KIP (1000 POUNDS) KILOVOLT KILOVOLT AMPERE KILOVAR KILOWATT
LAT LCP LE LEL LGW LIT LOD LOS LS	LEAVING AIR TEMPERATURE, LATERAL, LATITUE LOCAL CONTROL PANEL LEVEL METER LOWER EXPLOSIVE LIMIT LOWER GREASEWOOD LEVEL INDICATION TRANSMITTER LIMITS OF DISTURBMENTS LOCKOUT STOP LIMIT SWITCH
MBH MCC MCM MCU	THOUSAND BTU'S PER HOUR MOTOR CONTROL CENTER THOUSAND CIRCULAR MILLS MASTER CONTROL UNIT

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1. ADDITIONAL ABBREVIATIONS ARE DEFINED IN ANSI Y1.1-1972.

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2. ABBREVIATIONS FOR PIPING SYSTEMS ARE SPECIFIED IN SECTION 40 05 01.

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MD	MOTORIZED DAMPER	SLR	SILENCER
MEE	MISCELLANEOUS ELECTRICAL EQUIPMENT	SN	SCREEN
MGD	MILLION GALLONS PER DAY	SP	SPACE, SET POINT, STATIC PRESSURE
/IG/I	MILLIGRAMS PER LITER	SPG	SPACING
AIE	MISCELLANEOUS INSTRUMENTATION EQUIPMENT	SPT	SOUND POWERED TELEPHONE
MILSPEC		SO2	SULFUR DIOXIDE
MIN		SPL	
MJ ML	MECHANICAL JOINT MILLILITER	SR SRV	SPEED REDUCER, SALT RIVER PROJEC SAFETY RELIEF VALVE
ипе	MISCELLANEOUS MECHANICAL EQUIPMENT	SRG	SAFETT RELIEF VALVE
NOP	MOTOR OPERATOR	SS	STAINLESS STEEL, SANITARY SEWER,
MOV	MOTOR OPERATED VALVE	SSC	SOLID STATE CONTROLLER
MUL/DIV	MULTIPLY/DIVIDE	SSFH	STAINLESS STEEL FLAT HEAD
ΜV	MUD VALVE, MILLIVOLT	SSK	SERVICE SINK
МХ	MIXER	ST	START
		STD	STANDARD
N	NEUTRAL	STGA	STARTING AIR
	NONAUTOMATIC	SUB	SUBSTITUTE
NAOH NEG	SODIUM HYDROXIDE NEGATIVE	SUP SV	SUMP PUMP SOLENOID VALVE
	NORMALLY CLOSED	SWB	SWITCHBOARD
NF	NONFUSED	SWGR	SWITCHGEAR
NOX	NITRATES AND NITRITES	SYM	SYMMETRICAL
NPSH	NET POSITIVE SUCTION HEAD		
NRS	NONRISING STEM	TP	TANGENT POINT
~ .		ТВ	TERMINAL BOX
AC		T/B	TOP OF BANK
		TBN	
OB ור	OPPOSED BLADE	T/C	
DL D-O	OVERLOAD OUT TO OUT	TCL TCP	TOTALLY CLOSED
J-U DRF	OUT TO OUT ODOR REMOVAL FILTER	TD	TEMPERATURE CONTROL PANEL TIME DELAY RELAY
JRF JRP	OXIDATION REDUCTION POTENTIAL	TD TFR	TRANSFORMER
ORT	ODOR REMOVAL TOWER	TNK	TANSFORMER
OSA	OUTSIDE AIR	TOA	TEST-OFF-AUTO
OSC	ODOR SCRUBBER	TOC	TOTAL ORGANIC CARBON
		TPG	TOPPING
D	PUMP	TPLX	TRIPLEXED
PAR	PARALLEL	TR	TIMING RELAY, STAIR TREAD
PC	PLAIN CONCRETE, PIPE COUPLING	TRM	TRANSMITTER
PCC	PLANT CONTROL CENTER	TRN	TRANSDUCER
PCHV PCP	PINCH VALVE PLAIN CONCRETE PIPE	TRS TS	TRANSFER SWITCH
PC-T	PIPE COUPLING TO TAKE TENSION	TV	TEMPERATURE SWITCH THERMOSTATIC VALVE
PCU	PHOTOELECTRIC CONTROL UNIT	IV	
P/E	PNEUMATIC/ELECTRIC	UG	UNDERGROUND
PF	POWER FACTOR	UL	ULTIMATE LOAD
כן	PROPORTIONAL PLUS INTEGRAL CONTROL , PRESSURE GAUGE	UN	UNION
PID	PROPORTIONAL PLUS INTEGRAL PLUS DERIVATIVE CONTROL	UP	UTILITY POLE
PIT	PRESSURE INDICATING TRANSMITTER	UPS	UNINTERRUPTIBLE POWER SUPPLY
PIVC	POINT OF INTERSECTION ON VERTICAL CURVE	US	UTILITY STATION
PL	PROPERTY LINE, PIPELINE, PLATE	USS	UNIT SUBSTATION
	PLUG VALVE	N /	
PLYWD PMP	PLYWOOD PUMP	V VAC	VALVE, VOLTS VOLTS ALTERNATING CURRENT
PNL	PANEL, PANELBOARD	VAC	VARIES, VARIABLE
PO4	PHOSPHATE	VAIX	VERTICAL CURVE
POP	PNEUMATIC OPERATOR	VCP	VITRIFIED CLAY PIPE
P P	POWER POLE	VD	VOLUME DAMPER
PRES	PRESSURE	VDC	VOLTS DIRECT CURRENT
PRD	PRESSURE RELIEF DAMPER	VEN	VENTILATOR
PRV	PRESSURE REGULATING (REDUCING) (RELIEF) VALVE	VFD	VARIABLE FREQUENCY DRIVE
PRS	PRESSURE REDUCING STATION	VFT	VACUUM FILTER
PS	PRESSURE SWITCH, PRESSURE SENSOR, PUMP STATION	VP	VAPOR PRESSURE, VACUUM PUMP
PSIA	POUND PER SQUARE INCH ABSOLUTE	VSC	VARIABLE SPEED COUPLING
⊃SIG ⊃V	POUNDS PER SQUARE INCH GAGE	VTR	VENT THROUGH ROOF
⊃∨ ⊃VL	PLUG VALVE, PROCESS VARIABLE PRESSURE VESSEL	VV	VARIABLE VOLUME BOX
-v∟ >VT	PAVEMENT	WC	WATER CLOSET, WATER COLUMN
• •		WCO	WATER CLOSET, WATER COLOMIN WALL CLEANOUT
Q	RATE OF FLOW	WEG	WALL EXHAUST GRILLE
	QUICK COUPLING	WER	WALL EXHAUST REGISTER
		WF	WIDE FLANGE
२.	RADIUS	WG	WASTE GAS
RA	RETURN AIR	WM	WATER METER
RAF	ROLL TYPE AIR FILTER	WSR	WALL SUPPLY REGISTER, WASHER
RCR	RECORDER	WSTP	WATERSTOP
	RECEIVER	WT WTP	WATERTIGHT
RECD		WTP	
RECP RED	RECEPTACLE REDUCE(R)	WV WWF	WATER VALVE WELDED WIRE FABRIC, WET WEATHER
REG	REGULATOR	vvvV⊏	WELDED WILL LADING, WELWEATHER
REL	RELAY	Х	SPARE CONDUIT
RT	RIGHT	XLP	CROSS LINKED POLYETHYLENE
RTP	REINFORCED THERMOSET PLASTIC	XP	EXPLOSION-PROOF
RTU	REMOTE TERMINAL UNIT		
	RIGID GALVANIZED STEEL	YCO	YARD CLEANOUT
	REDUCED LEVEL		
RL	RECLAIMED WATER	ZS	POSITION SWITCH
RL RW			
RL RW RWCD	RECALIMED WATER CONSERVATION DISTRICT		
RGS RL RW RWCD RWL	RECALIMED WATER CONSERVATION DISTRICT RAINWATER LEADER		
RL RW RWCD			
RL RW RWCD			
RL RW RWCD RWL S SB	RAINWATER LEADER SOUTH, SILENCER SIGNAL BOX		
RL RW RWCD RWL S SB SBD	RAINWATER LEADER SOUTH, SILENCER SIGNAL BOX SWITCHBOARD		
RL RW RWCD RWL SB	RAINWATER LEADER SOUTH, SILENCER SIGNAL BOX		

ITIONING	

LATITUDE

SD SEP

SG SI SIM SL SLG

SPLITTER DAMPER, SMOKE DETECTOR

SUPPLY GRILLE, SLUICE GATE

SEPARATOR

SIMILAR

SLOPE SLIDE GATE

SPEED INCREASER

СТ

, SPEED SELECTOR

R FLOW

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SALT LAKE CITY, UTAH

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WESTWATER WATER SYSTEM DESIGN

REVISIONS REV DATE DESCRIPTION --- -------- ----LINE IS 2 INCHES DESIGNED: C. WILLMORE DRAWN: D. DAVIDSE CHECKED: ----CHECKED: ----APPROVED: S. BRENCHLEY

FILENAME G-003.DWG BC PROJECT NUMBER 158815 CLIENT PROJECT NUMBER

GENERAL

STANDARD ABBREVIATIONS

DRAWING NUMBER G-003 XX SHEET NUMBER OF XX Α

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	CIVIL S	YMBOLS			
	w	WATERLINE	GE	NERAL NOTES	SITE GRA
		EXISTING WATERLINE	1.	1	1. STRIP
	OHP	OVERHEAD POWER LINE		NECESSARY) ALL EXISTING UTILITIES (VERTICAL AND HORIZONTAL LOCATION),	ACCOF 31 23 0
D	OHP	EXISTING OVERHEAD POWER LINE		CONDUITS, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS PRIOR TO THE START OF WORK.	2. ALL RO SHALL OTHEF
	UGTEL	EXISTING UNDERGROUND TELEPHONE LINE	2.	FENCES, SIGNS, CURBS, LIGHT POLES, IRRIGATION PIPING, CONTROL WIRING, AND SPRAY HEADS, ETC. SHALL BE REMOVED AND	3. CONTF
	G	EXISTING GAS LINE		REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL	MATER THE CO
	0 0	FENCE		SUCH WORK SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT. ALL	FOR TH
	X X	EXISTING FENCE		DISTURBED AREAS INCLUDING CONCRETE	4. ALL CA
	6700	CONTOUR LINE		STEPS, TIMBER STEPS, RETAINING WALLS, CONCRETE SIDEWALKS, PAVEMENT, LIGHT	VALVE WITH S
	6700	EXISTING CONTOUR LINE		POSTS, CURBS, UNDERGROUND PIPING AND STRUCTURES SHALL BE RESTORED TO MATCH	TO MA OTHEF
	•	GATE VALVE		EXISTING UNLESS OTHERWISE NOTED.	5. CONTF
	₩V ◯	EXISTING GATE VALVE	3.	ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE LIMIT OF WORK SHALL BE	OF ALL MATEF
	\bigcirc	WELL		RESTORED AT NO ADDITIONAL COST TO THE OWNER.	LIMIT C COMPL
		EXISTING WELL	4.	THE CONTRACTOR SHALL NOT STORE ANY	REGUL
	-	POWER POLE	т. 	APPARATUS, MATERIALS, SUPPLIES, AND EQUIPMENT ON DRAINAGE STRUCTURES OR	6. WHERI AND R
С	ى ت	EXISTING POWER POLE		WITHIN 100 FEET OF WETLANDS.	THE EX
	<u> </u>	EXISTING GUY WIRE	5.	THE CONTRACTOR SHALL GRADE PROPOSED	GRADI MANAC
		REDUCER		SLOPES TO MEET EXISTING SLOPES WHERE SHOWN ON PLANS.	7. CONTE
			6.	THE CONTRACTOR SHALL INSTALL AND	DISTUF MANAC
	₽	EXISTING REDUCER		MAINTAIN EROSION CONTROL DEVICES.	
	▼	FLUSH VALVE	7.	THE CONTRACTOR SHALL NOTIFY NTUA AT LEAST 72 HOURS PRIOR TO EXCAVATING	SITE PIPIN
		AIR RELEASE VALVE		NEAR ANY UTILITIES.	1. ALL PII BETWE
		SURVEY MARKING	8.	CONTRACTOR LAYOUT AREAS SHALL BE COORDINATED AND APPROVED BY THE CONSTRUCTION MANAGER AND NTUA. LIMITED SPACE IS AVAILABLE WITHIN THE SITE. NTUA SHALL NOT BE RESPONSIBLE FOR PROTECTING OR SECURING CONTRACTOR LAYOUT AND STORAGE AREAS, AND OWNER SHALL NOT BE LIABLE FOR THEFT OR DAMAGE TO CONTRACTORS STORED MATERIALS OR EQUIPMENT.	DRAWI PERMI BENDS RESTR (HORIZ TO ME INDICA 2. ALL BU SHALL FLEXIB
В			9.	ALL EXISTING UTILITY INFORMATION WAS OBTAINED FROM <u>NTUA AND FIELD SURVEY</u> . THIS INFORMATION MAY NOT BE COMPLETELY ACCURATE OR INDICATE ALL OF THE UTILITIES, UNDERGROUND PIPING, OR BURIED STRUCTURES PRESENT.	FEET F TYPE (BE RES
			10.	ALL TRENCH EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING. COVERING WITH STEEL PLATES MAY BE ALLOWED IF APPROVED BY THE CONSTRUCTION MANAGER.	MANUF NOT BE THE CO
			11.	THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).	
			12.	REFER TO THE SPECIFICATIONS FOR INFORMATION REGARDING ANY NECESSARY COORDINATION WITH OTHERS, INCLUDING RESPONSIBILITIES AND RELATED COSTS.	
A					
	L1			2	

- PPING OF TOPSOIL SHALL BE IN ORDANCE WITH SPECIFICATION SECTION 00 EARTHWORK.
- ROAD AND PARKING AREA SURFACES L PITCH 2 PERCENT MINIMUM UNLESS RWISE NOTED.
- RACTOR SHALL NOT TRACK OR SPILL H, DEBRIS OR OTHER CONSTRUCTION RIAL ON PUBLIC OR PRIVATE STREETS. CONTRACTOR SHALL BE RESPONSIBLE THE IMMEDIATE ASSOCIATED CLEAN UP.
- ATCH BASINS, MANHOLES, VALVE PITS, E BOXES AND OTHER BURIED FACILITIES SURFACE ACCESS SHALL BE ADJUSTED ATCH FINAL GRADES, UNLESS RWISE INDICATED.
- RACTOR SHALL REMOVE AND DISPOSE L DEBRIS AND EXCESS EXCAVATED RIAL FROM WITHIN THE CONSTRUCTION OF WORK, TO A SUITABLE SITE IN PLIANCE WITH NAVAJO NATION JLATIONS.
- RE EXISTING PAVEMENT IS REMOVED REPLACED, MATCH EXISTING GRADES TO EXTENT POSSIBLE. COORDINATE FINE DING WITH THE CONSTRUCTION
- RACTOR TO REGRADE, AND RESEED ALL JRBED AREAS PER CONSTRUCTION GER AND PER SPEC 31 25 00.

NG NOTES

- PIPE LINES SHALL SLOPE UNIFORMLY VEEN ELEVATIONS INDICATED ON THE VINGS. NO CRESTS IN PIPING WILL BE MITTED. ALL HORIZONTAL AND VERTICAL OS IN PRESSURIZED LINES SHALL BE RAINED JOINTS. PROVIDE ALL BENDS IZONTAL AND VERTICAL) AS REQUIRED EET THE GRADES AND ALIGNMENT ATED ON THE DRAWINGS.
- BURIED CONNECTIONS TO STRUCTURES L HAVE SLEEVE TYPE (SOLID SLEEVE) BLE CONNECTIONS APPROXIMATELY 4 FROM THE STRUCTURES. ALL SLEEVE COUPLINGS ON PRESSURE LINES SHALL ESTRAINED.
- IINGS FOR PIPE IN PRECAST MANHOLE S SHALL BE CAST IN THE REQUIRED TIONS DURING MANHOLE JFACTURE. FIELD CUT OPENINGS WILL BE PERMITTED UNLESS APPROVED BY CONSTRUCTION MANAGER.

SITE PIPING NOTES (CONT'D.)

- 4. A MINIMUM OF 48-INCHES OF COVER REQUIRED ON PIPES UNLESS NOTED OTHERWISE.
- 5. REFER TO SPECIFICATION SECTION 31 23 00 AND CIVIL DETAILS FOR PIPE AND STRUCTURE BEDDING AND BACKFILL REQUIREMENTS.
- 6. COMPACTION TESTS WILL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 31 23 00, EARTHWORK. ANY SETTLEMENT OCCURRING WITHIN ONE YEAR OF FINAL COMPLETION OF THE WORK SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.
- 7. WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL EXCAVATE A TEST PIT TO VERIFY LOCATION, ELEVATION, ORIENTATION AND MATERIAL OF CONSTRUCTION BEFORE ORDERING MATERIALS.
- 8. WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ADAPTERS, FITTINGS, AND ADDITIONAL PIPE AS REQUIRED TO COMPLETE THE CONNECTION.
- . POTABLE WATER LINES SHOULD BE INSTALLED OVER WASTEWATER LINES. A MINIMUM SEPARATION OF 18 INCHES BETWEEN THE BOTTOM OF THE POTABLE WATER LINE AND THE TOP OF THE WASTEWATER LINE SHALL BE MAINTAINED. A HORIZONTAL SEPARATION OF AT LEAST 10 FEET MUST ALSO BE MAINTAINED.
- 10. ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO ANY TRENCH EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. DAMAGE TO ANY SUCH STRUCTURES CAUSED BY OR RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE. ALL UTILITIES REQUIRING REPAIR, RELOCATION OR ADJUSTMENT AS A RESULT OF THE PROJECT SHALL BE COORDINATED THROUGH THE CONSTRUCTION MANAGER.
- 11. ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE THROUGHOUT THE PROJECT, UNLESS OTHERWISE NOTED.
- 12. ALL EXISTING UTILITIES REPLACED OR RELOCATED SHALL BE CONSTRUCTED OF NEW MATERIALS, APPROVED BY THE CONSTRUCTION MANAGER, SIMILAR TO THOSE OF THE EXISTING UTILITY.

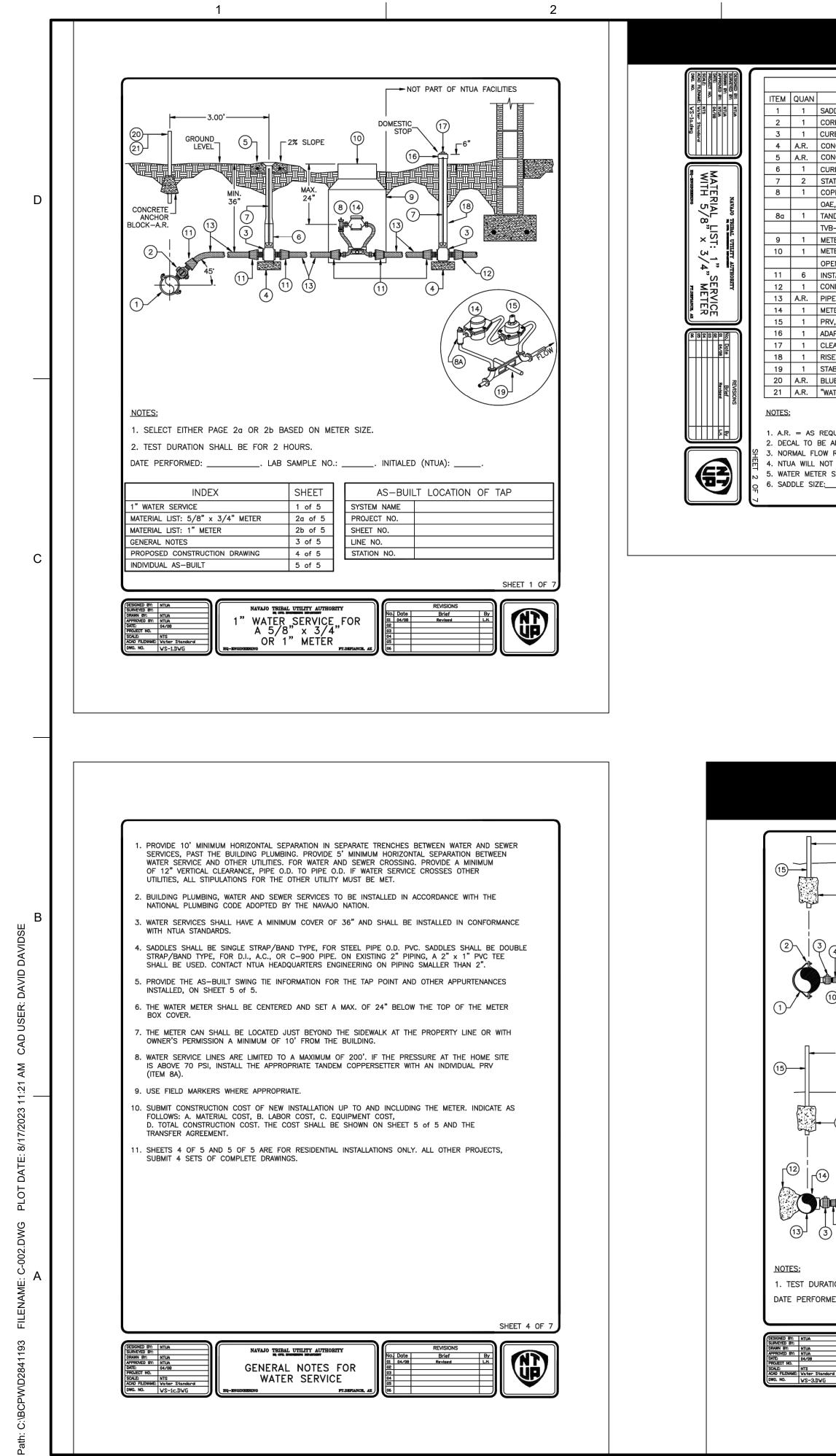
SITE PIPING NOTES (CONT'D.)

- 13. UNLESS OTHERWISE INDICATED, CONCRET USED FOR ENCASEMENT, ANCHOR BLOCKS BACKING, PIPE CRADLES, ARCHES AND FILL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
- 14. SURVEY COORDINATES AND ELEVATIONS SHALL BE PROVIDED FOR ALL BURIED PIPIN BENDS AND VALVES ON AS-BUILT DRAWING
- 15. PROVIDE VALVE BOXES FOR ALL BURIED VALVES.
- 16. THE CONTRACTOR WILL POTHOLE AS REQUIRED AND SHALL FIELD INVESTIGATE PIPING AND INTERFERENCES WITH EXISTIN FACILITIES PRIOR TO BEGINNING WORK. CONTRACTOR SHALL FIELD ROUTE NEW LIN AS NECESSARY TO AVOID EXISTING FACILITIES AND SHALL COORDINATE FIELD ROUTING WITH CONSTRUCTION MANAGER.
- 17. UNLESS NOTED OTHERWISE ALL UNDERGROUND PIPING SHALL BE INSTALLE PER TRENCH DETAIL C/C-003
- 18. ASPHALT SURFACES DISTURBED DURING UNDERGROUND PIPING INSTALLATION, DUC BANK INSTALLATION AND OTHER ACTIVITIES SHALL BE REPAIRED.

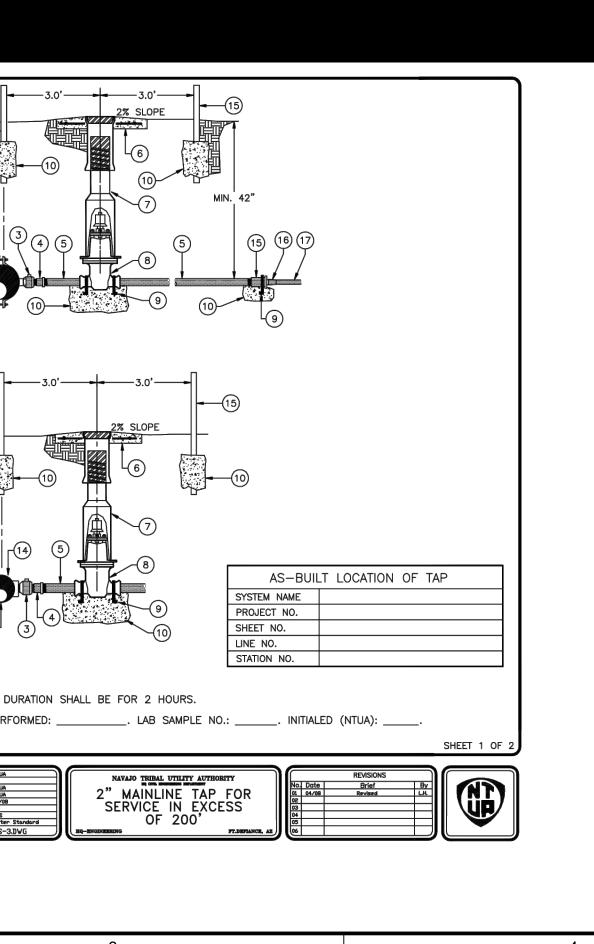
SITE LAYOUT NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL PROPOSED WORK AS SHOWN ON THE DRAWINGS.
- 2. CONTROL POINTS ON SHEET V-001 DEFINE THE CONSTRUCTION CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOF MAINTAINING THIS PROVIDED LAYOUT INFORMATION THROUGHOUT THE COURSE CONSTRUCTION. REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE CONSTRUCTION MANAGER.
- 3. IN GENERAL, THE GIVEN STRUCTURE LOCATIONS ARE TO THE OUTSIDE FACE OF THE STRUCTURE FOUNDATION WALL, NOT FOOTINGS. REFER TO THE CIVIL AND STRUCTURAL DRAWINGS FOR STRUCTURE DIMENSIONS. RADII SHOWN FOR ROADS AR TO EDGE OF PAVEMENT.
- 4. THE LOCATION AND LIMITS OF ALL ON-SITE WORK AND STORAGE AREAS SHALL BE REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO, THE OWNER AND CONSTRUCTION MANAGER. THE CONTRACTOR SHALL LIMIT THEIR ACTIVITIES TO THESE AREAS.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING AND RESETTING ALL EXISTING PROPERTY MONUMENTS DISTURBED BY THEIR OPERATIONS. THIS WORK SHALL BE DONE BY A LAND SURVEYO REGISTERED IN THE STATE OF UTAH AT NO ADDITIONAL COST TO THE OWNER.
- 6. WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE DISTANCES FROM THE DRAWING REPORT ANY DISCREPANCIES IMMEDIATELY TO THE CONSTRUCTION MANAGER.

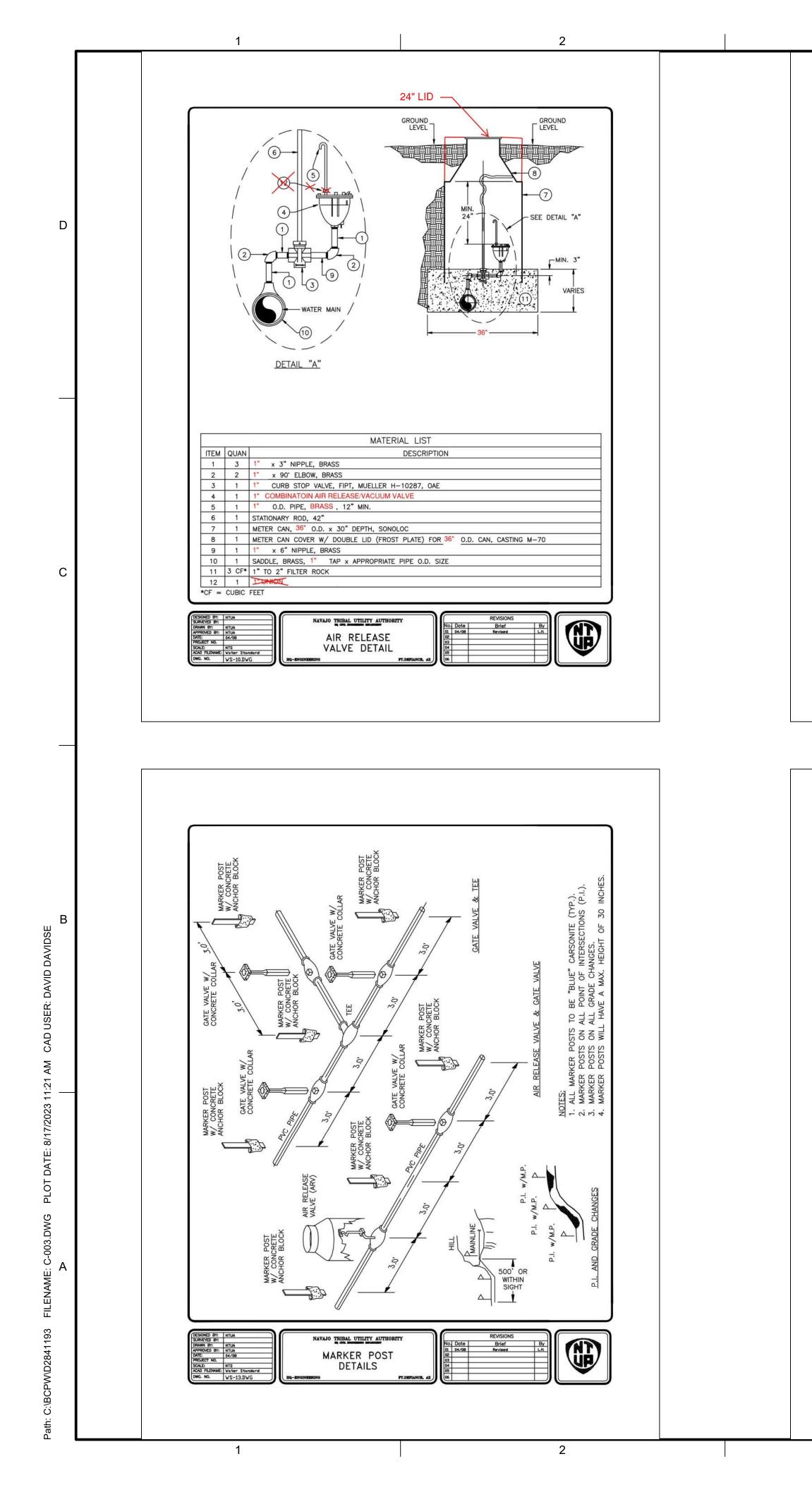
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	SIT	E LAYOUT NOTES (CONT'D.)			Brown AND . Caldwell	
Ē S,		SURVEY IS BASED ON NAD 83 AND THE UTAH STATE PLANE SOUTH ZONE MEASURE IN		SALT	I LAKE CITY, UTAH	
Ĺ		INTERNATIONAL FEET. SURVEY ELEVATIONS ARE BASED ON NAVD 88 EXPRESSED IN INTERNATIONAL FEET. SHOWN DISTANCES AND COORDINATES AT GROUND VALUES NOT GRID VALUES. TO OBTAIN SPC GRID VALUES		UAL		D
NG SS.		MULTIPLY THE DISTANCE AND COORDINATE SHOWN BY A COMBINED FACTOR OF 0.99960803.	т		RAWING IS NOT VALID R CONSTRUCTION	
	PE	RMITS AND NOTIFICATION NOTES		THE	SES UNLESS IT BEARS E SEAL OF A DULY	
NG NES	1.	THE CONTRACTOR SHALL COMPLETE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE PROJECT. SEE SPECIFICATION SECTION 01 57 13.			ERED PROFESSIONAL	
ΞD	2.	THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER TWENTY-FOUR (24) HOURS PRIOR TO COMMENCING PERMITTED WORK, TWENTY-FOUR (24) HOURS PRIOR TO ANY REQUIRED INSPECTION, AND AFTER COMPLETING WORK COVERED BY THE PERMIT.				
CT S	3.	A REQUEST FOR SHUTDOWN SHALL BE REQUIRED WHENEVER CONNECTIONS ARE MADE TO ANY UTILITY LINE, INCLUDING ELECTRIC POWER AND COMMUNICATION LINES; GAS, WATER, AND SANITARY SEWERS		60%	% SUBMITTAL	С
≡ <		OR STORM SEWERS. CONNECTIONS TO ANY UTILITY WITHOUT AN APPROVED REQUEST WILL MAKE THE CONTRACTOR LIABLE TO THE OWNER FOR CORRECTION OF ANY DEFICIENCIES AND/OR RESULTING PROBLEMS, INCLUDING (BUT NOT LIMITED TO) HEALTH, SAFETY, AND FINANCIAL PROBLEMS. THE		NAVAJ UTILITIS	TRIBAL UTILITY AUTHORITY	
R OF		CONTRACTOR SHALL REQUEST PERMISSION AT LEAST FOUR (4) WORKING DAYS PRIOR TO THE DAY PLANNED FOR ANY UTILITY SHUT-DOWN. ALL UTILITY SHUT-DOWNS ARE SUBJECT TO APPROVAL BY THE OWNER.		\\/	ESTWATER	
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MATERIAL LIST DESCRIPTION DDLE, BRASS, 1" FIPT × APPROPRIATE PIPE TYPE, O.D., AND LINE PRESSURE RPORATION STOP, 1" MIPT × 1" FIPT, MUELLER H-10046, OAE RB STOP, 1" FIPT × 1" FIPT, MINNEAPOLIS PATTERN W/ O-RING, MUELLER H-10287, OAE INCRETE BLOCK OR BRICK WICRETE COLLAR, 18" SQUARE × 4" THICK, W/ #4 REBARS, E.W.O.C. RB VALVE BOX, EXTENSION TYPE, MUELLER H-10302, W/ 2" × 1 1/2" BUSHING, OAE ATIONARY ROD 36" LONG, MUELLER PART #04338, SECURED TO THE CURB STOP W/ COTTER PIN IPPERSETTER W/ VALVED 12" RISER FOR 5/8" × 3/4" WATER METER, FORD NO. VB72-12W-FF-44, E, W/ 1" IP UNION NUT/SWIVEL ASSEMBLY CONNECTION ON INLET, OUTLET, AND BRACING EYE NDEM COPPERSETTER WITH VALVED 12" RISER, 5/8" × 3/4" WATER METER, FORD NO. B-72-12W-FF-44, OAE, W/ TWO REGULATOR ADAPTERS FOR THE PRV TER CAN, 20" O.D. × 30" HT., DFW PLASTIC, DFW 2030 B SERIES "T' TOP TER ADX COVER W/ FROST PLATE, FOR 20" METER CAN, 11 1/2" MINIMUM LID 'ENING, CASTING M-70 STA-TITE FITTING, 1" MIPT × 1" STAB FOR SIDR 7 P.E. PIPE, MUELLER H15426 NNECTOR/ADAPTER, 1" MIPT × APPROPRIATE PIPE TYPE AND 0.D. 'E, 1" P.E., ASTM D-2235, SIDR 7, 200 PSI, 200' MAX. TER, POSITIVE DISPLACEMENT, NEPTUNE, SR, 5/8" × 3/4", GALLONS, W/ FROST PLATE Y, WILKENS 600 OR WATTS 25 AUB, 3/4" FIPT APTER, 3", HUB × FIPT PVC-DWV <	MATERIAL LIST ITEM QUAN 1 1 1 1 2 1 CORPORATION STOP, 1" MIPT x 1" FIPT, MUELER H-10046, OAE 3 1 CURB STOP, 1" MIPT x 1" FIPT, MUNELER H-10046, OAE 3 1 CURB STOP, 1" MIPT x 1" FIPT, MUNELER H-10046, OAE 3 1 CURB STOP, 1" MIPT x 1" FIPT, MUNEAPOLIS FATTERN W/ O-RNO, MUELLER H-10287, OAE 4 A.R. CORPORTED BLOCK OR BIRK 5 A.R. CORPERSTER WILL 8 1 0 0 9 1 METER SCOVER 9 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Brown and Caldwell SALT LAKE CITY, UTAH
ABILIZER, T/2 U.D. X 12 LUNG PIPE, PVC, SCH. 40 UE CARSONITE MARKER POST ATERLINE WARNING" DECAL (FOR ITEM 20)	Image: Second	60% SUBMITTAL C
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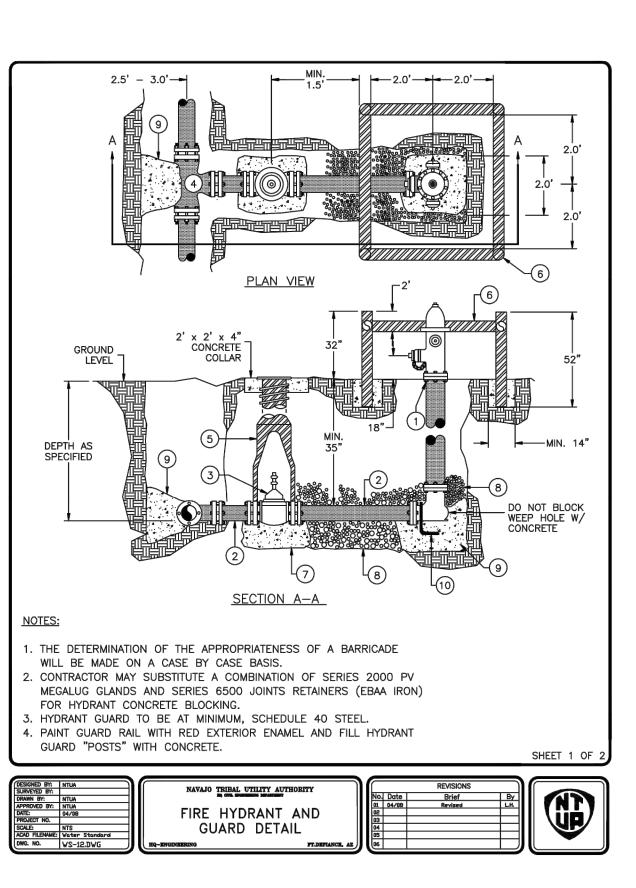


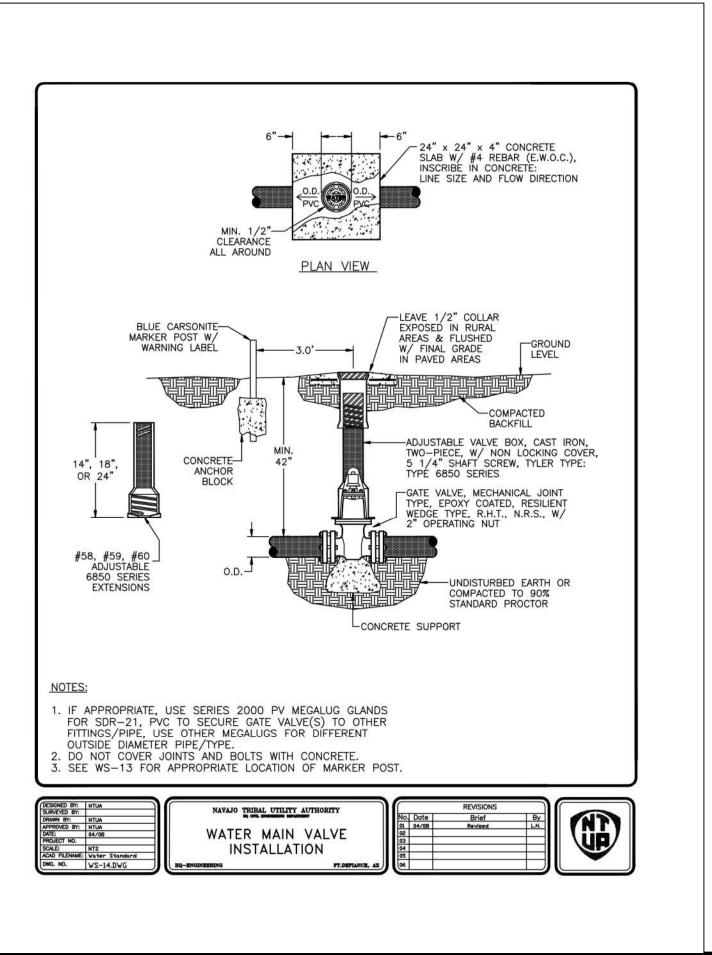
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	5	A.R. A.R.	PIPE, 2" PVC, SDR-21, BELL & SPIGOT CONCRETE COLLAR, 24" SQUARE × 4" THICK, W
		7.1.	SIZE AND FLOW DIRECTION
	7	1	VALVE BOX, C.I., 2-PIECE, 5.25" SHAFT, SCREW
NAVAJO FOR EXC	8	1	GATE VALVE, 2", RESILIENT SEAT WEDGE, S x S,
	9	A.R.	REBAR, #4, CUT & SHAPE AS NEEDED
	10	A.R.	CONCRETE ANCHOR BLOCK, 1.5 C.F. MIN. (DO I
	11	1	ADAPTER, PVC, CL 200, SDR 21, 2" GASKET x
	12	A.R.	CONCRETE THRUST BLOCK, 1.5 C.F. MIN. (DO N PIPE, 4" OR LESS, EXISTING
сез IN 200,	13	1	TEE, 4" MJ × 2" FIPT TAP W/ 2" BRASS CORP
	15	A.R.	BLUE CARSONITE MARKER POST W/ "WATERLINE
	16	1	INSTA-TITE FITTING, 1" MIPT × 1" STAB FOR SIL
ANCH,	17	1	PIPE, 1" P.E., ASTM D-2239, SIDR 7, 200 PSI,
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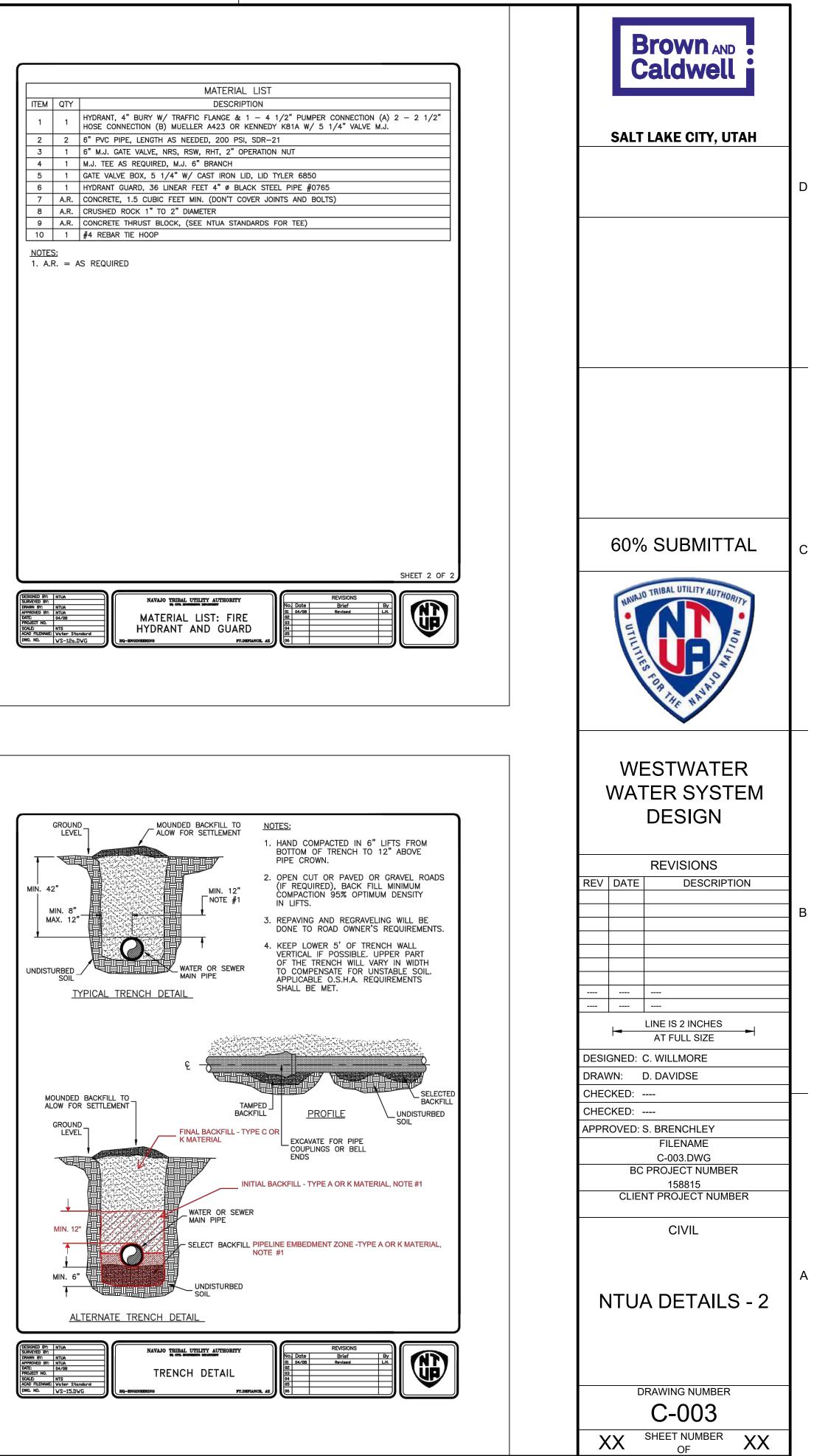


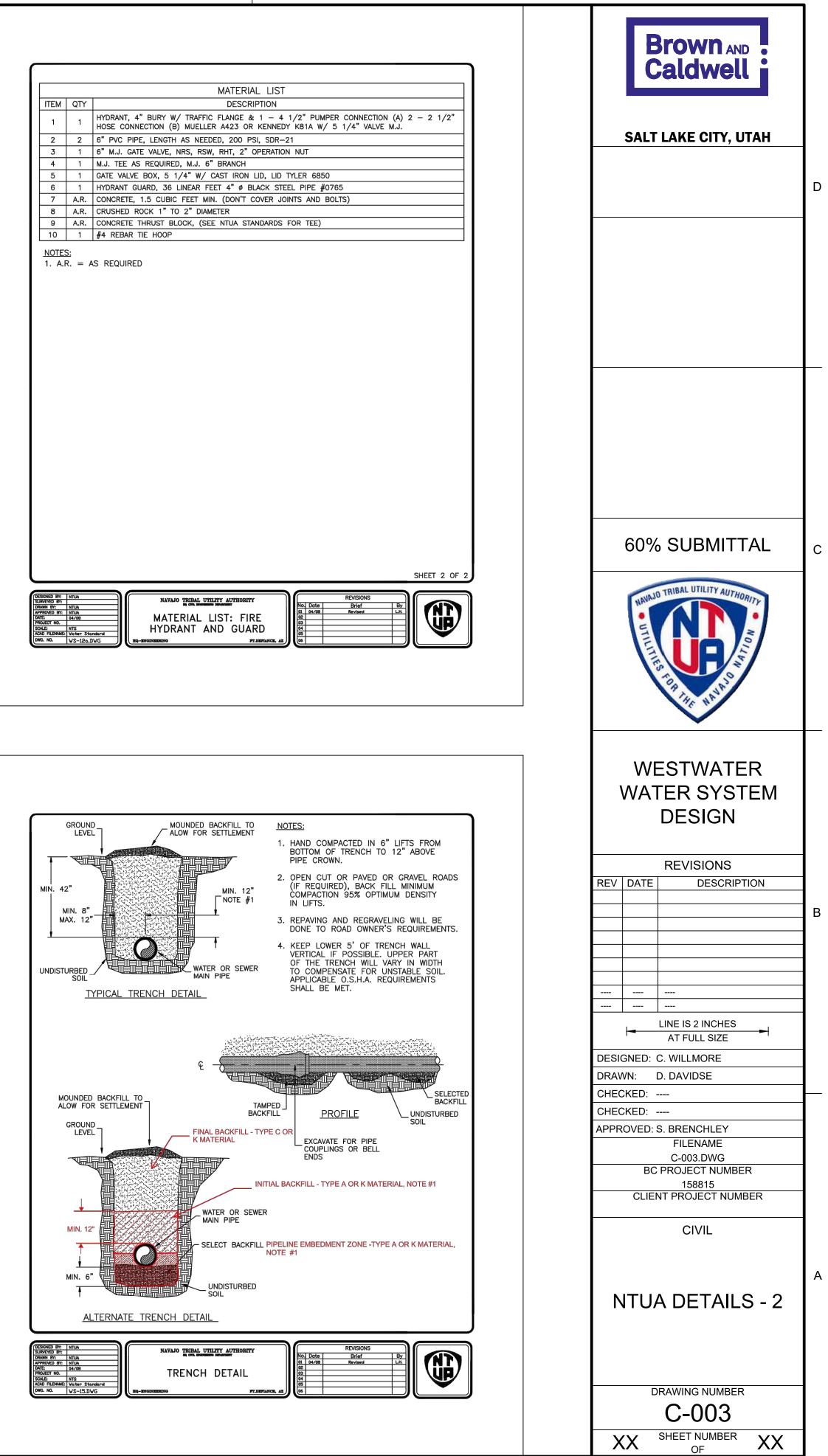




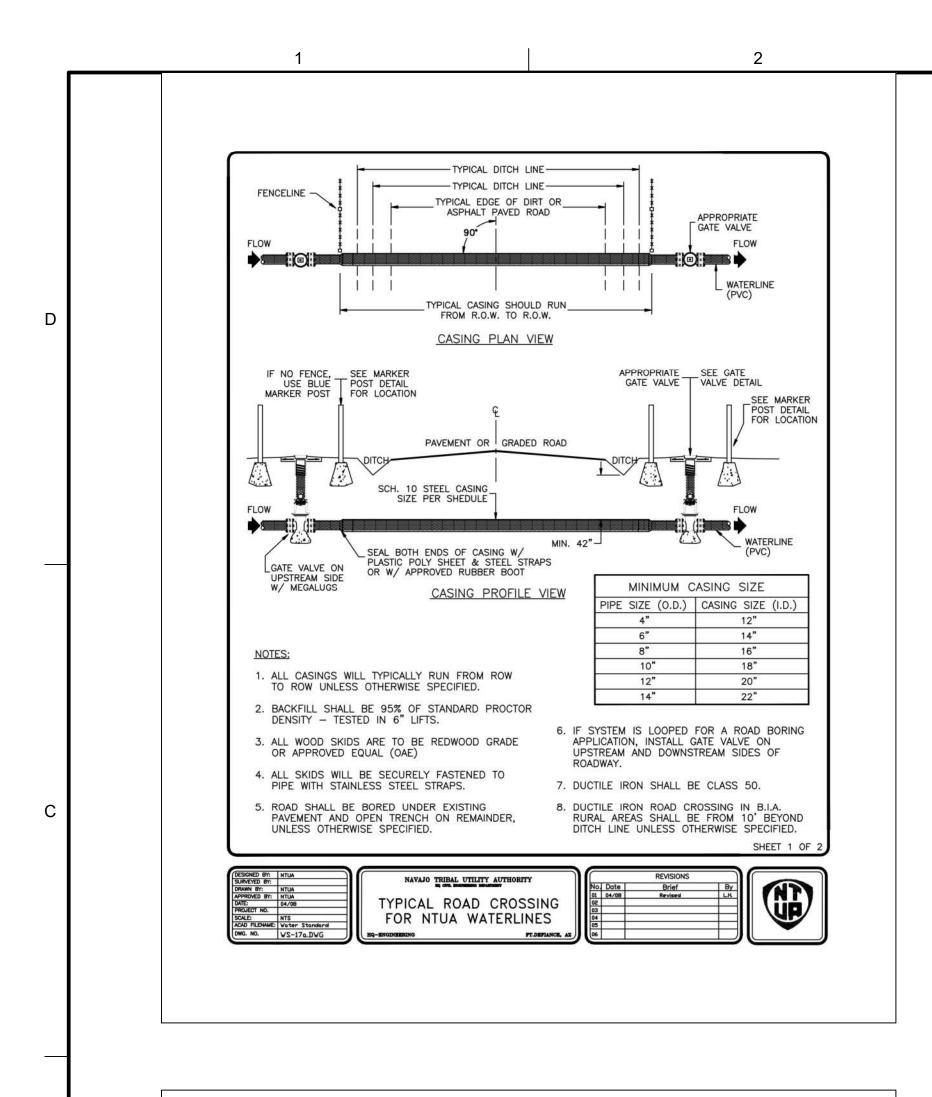


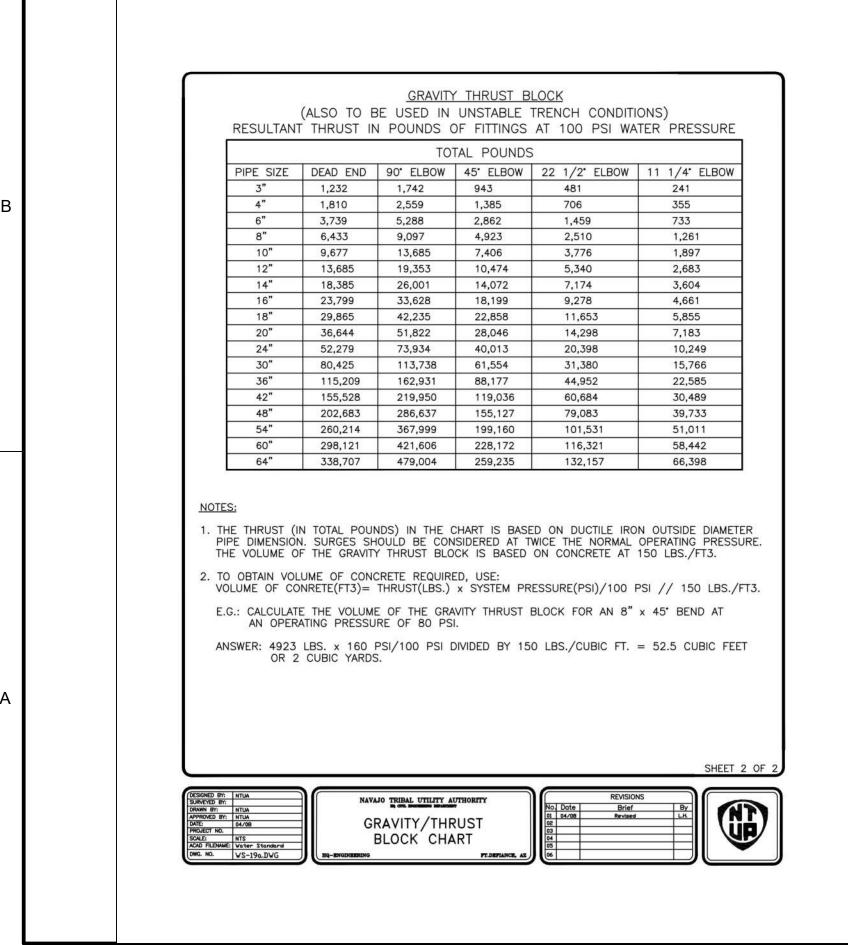




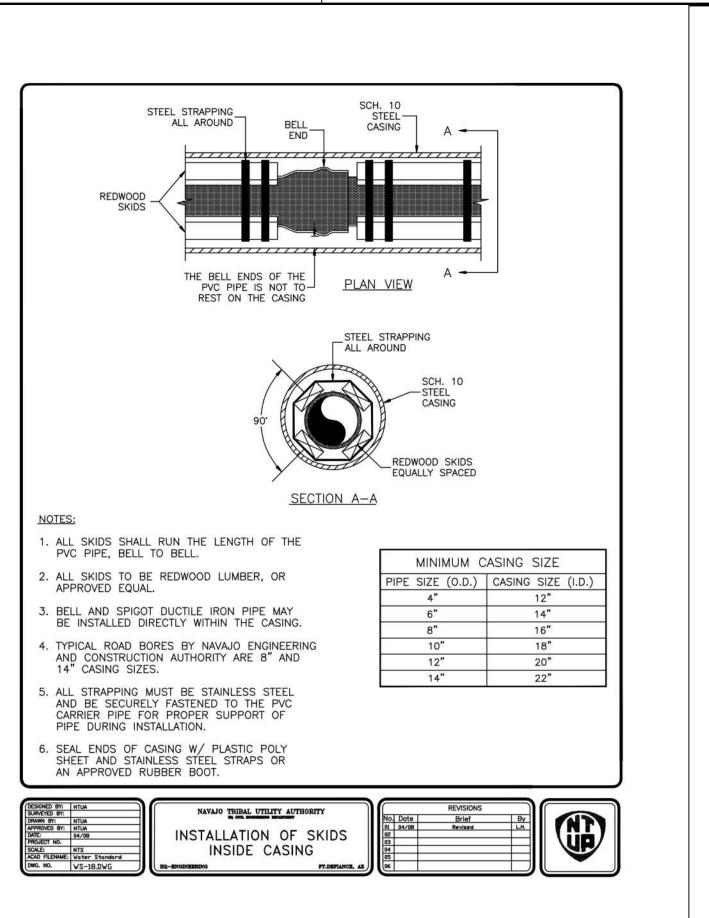


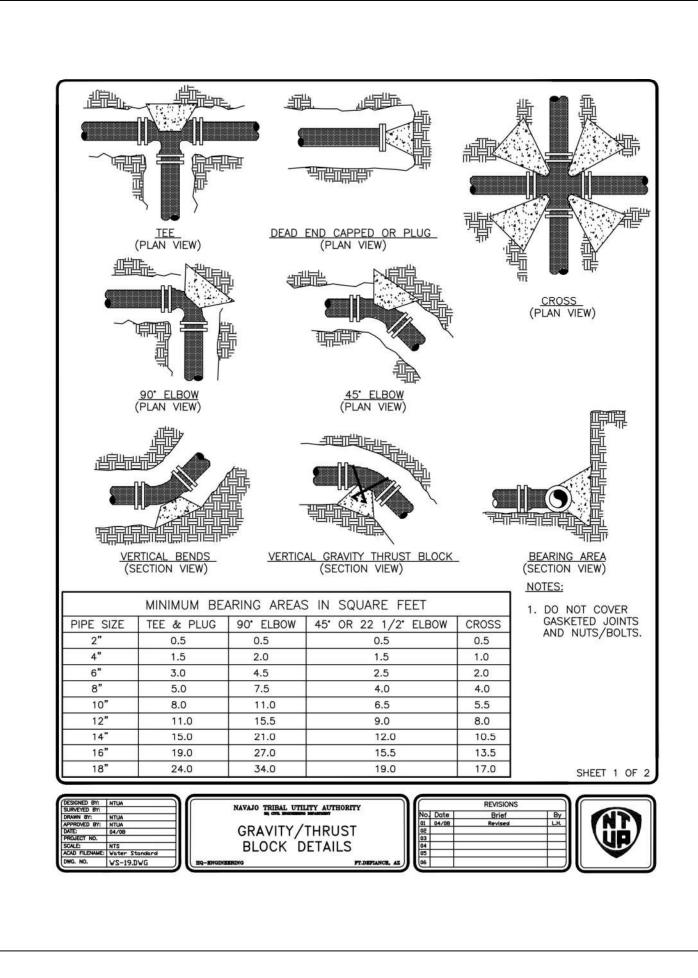
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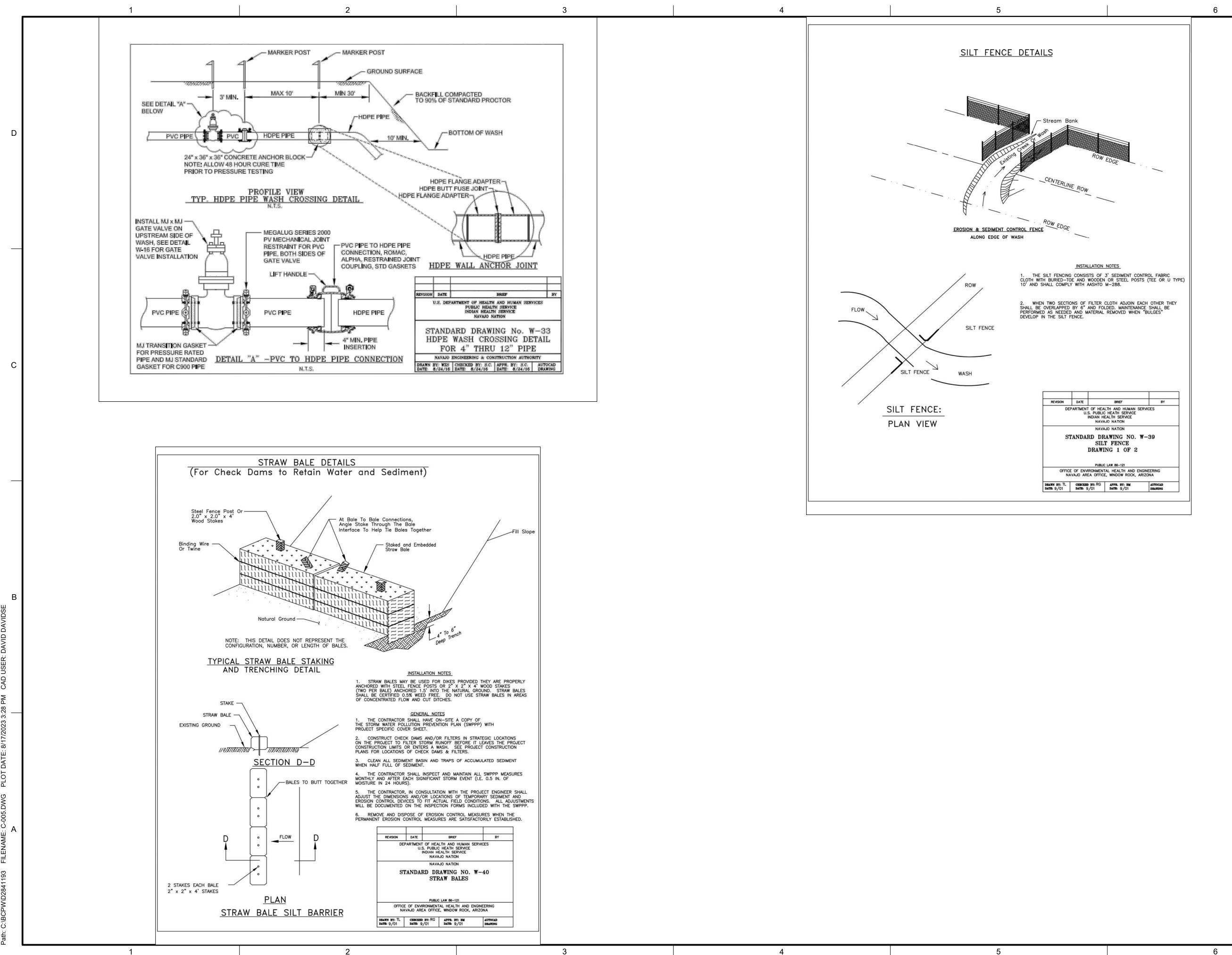


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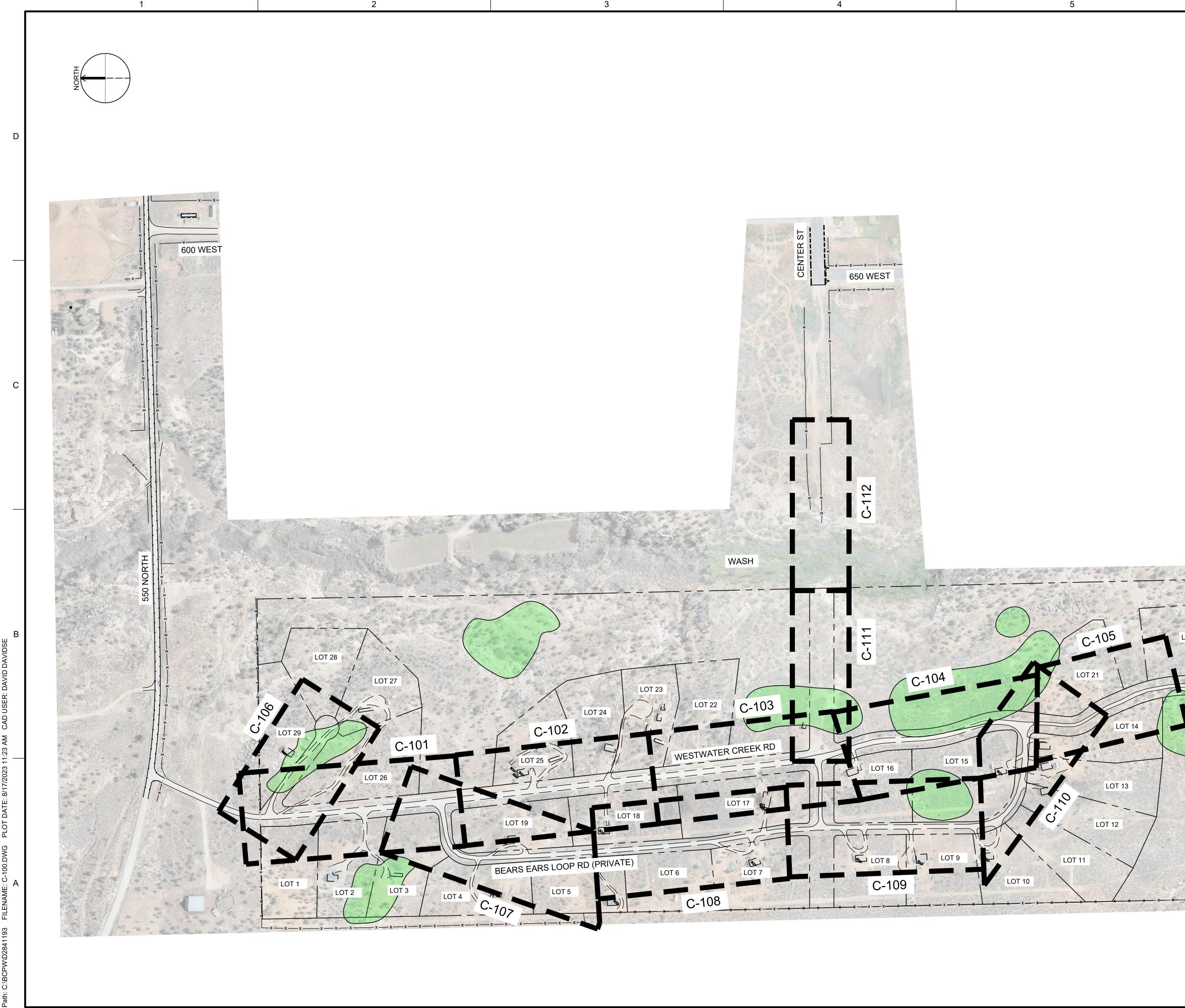








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Brown AND Caldwell
SALT LAKE CITY, UTAH

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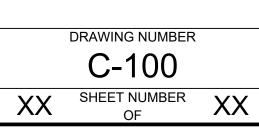
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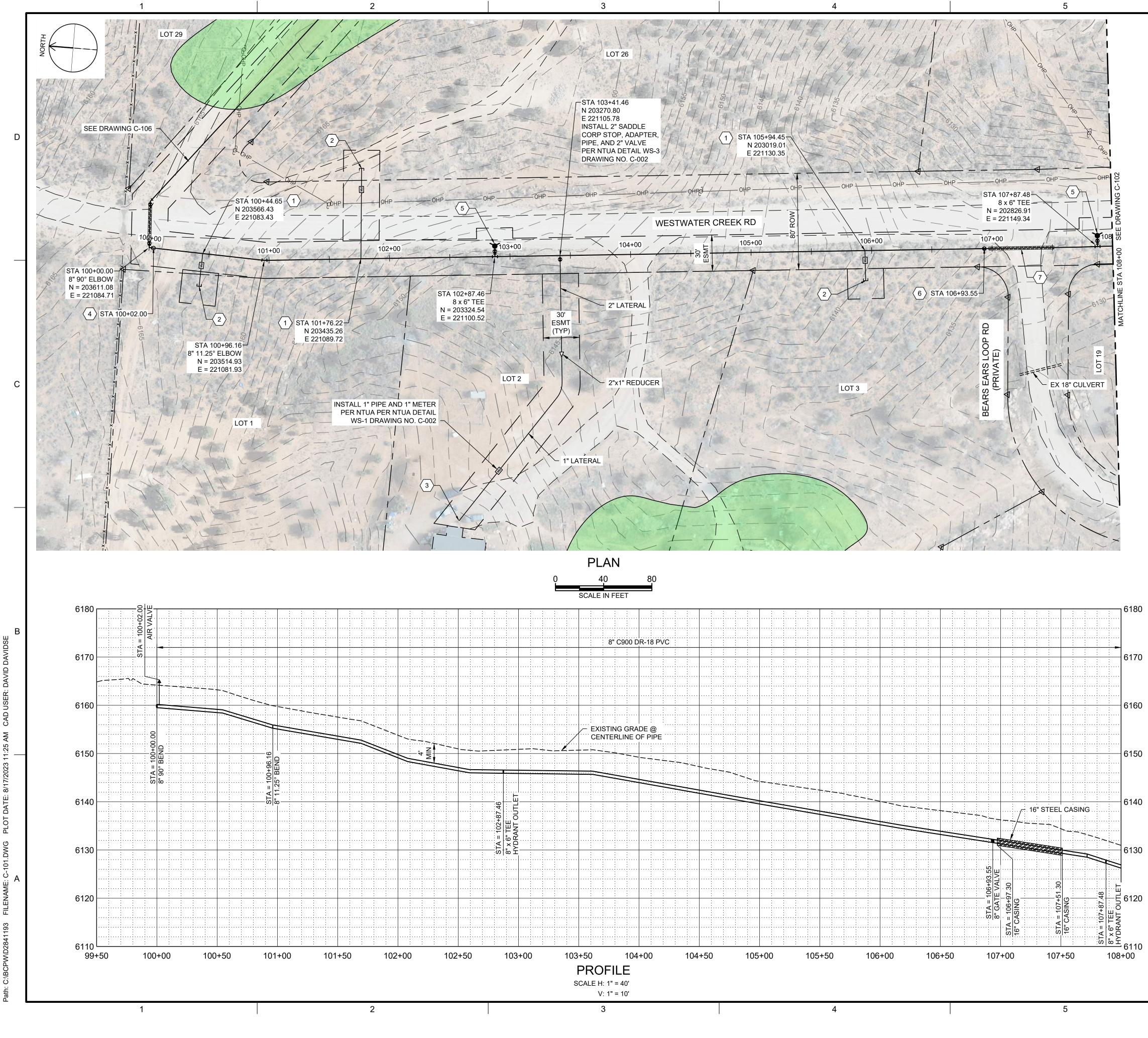
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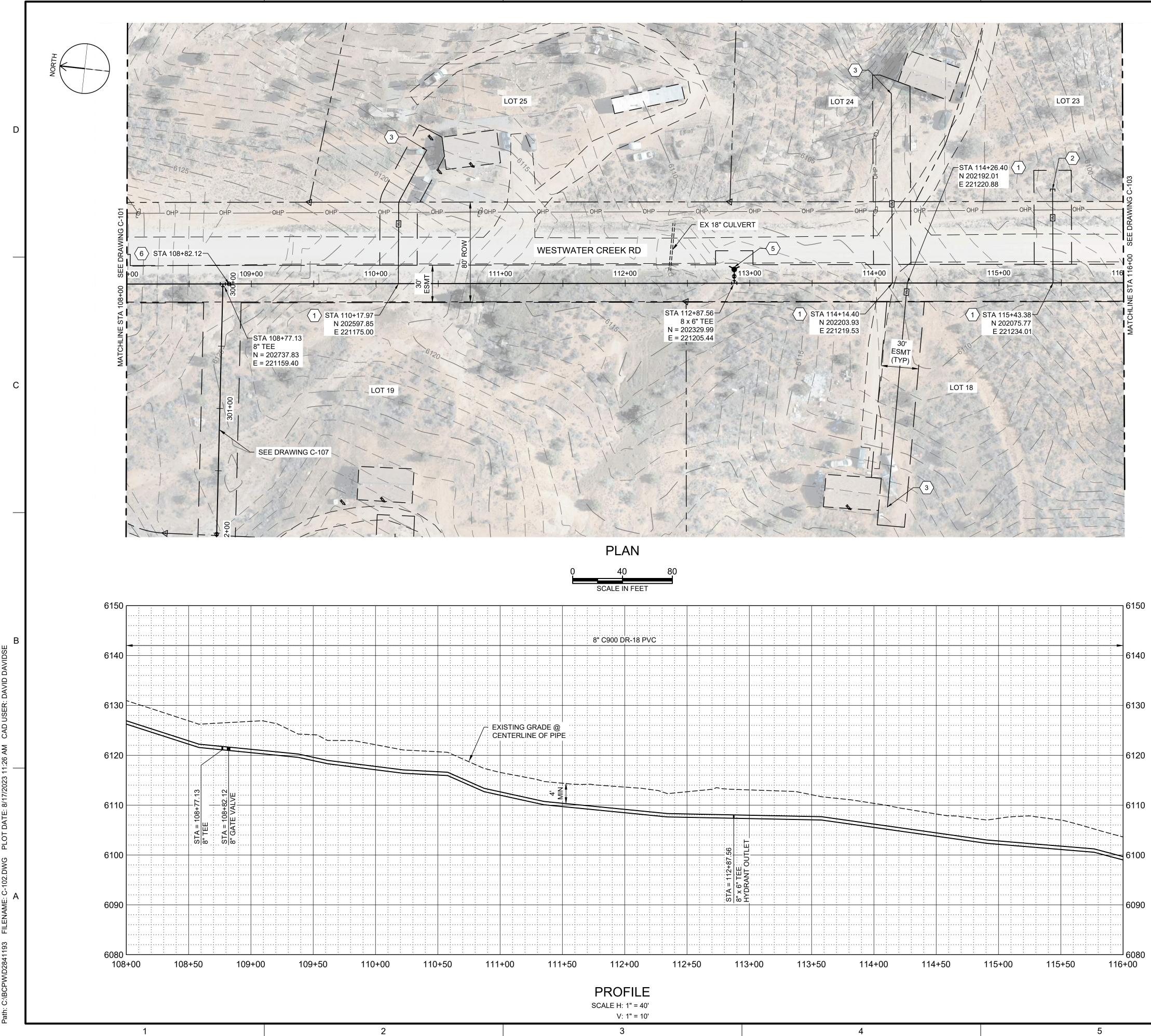
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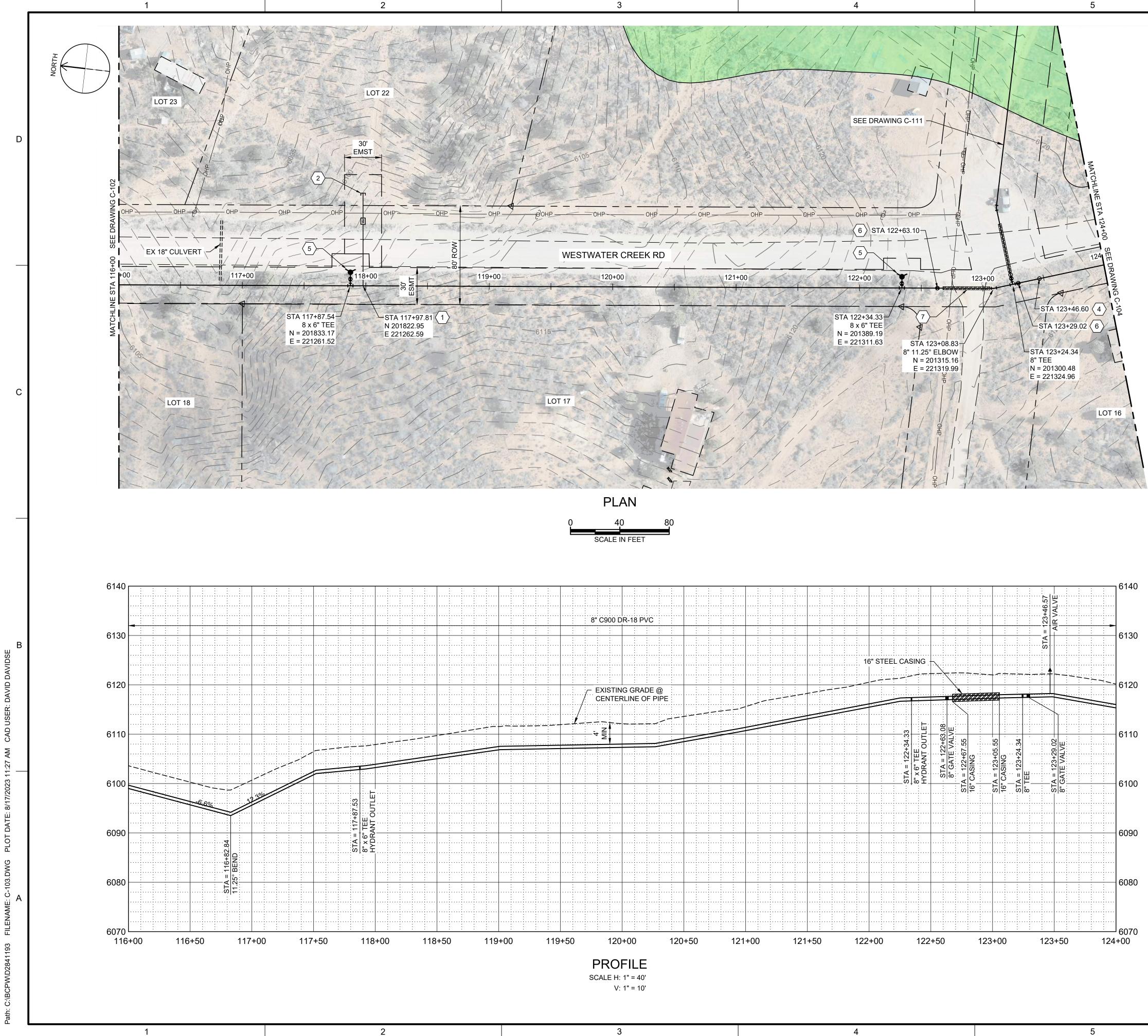
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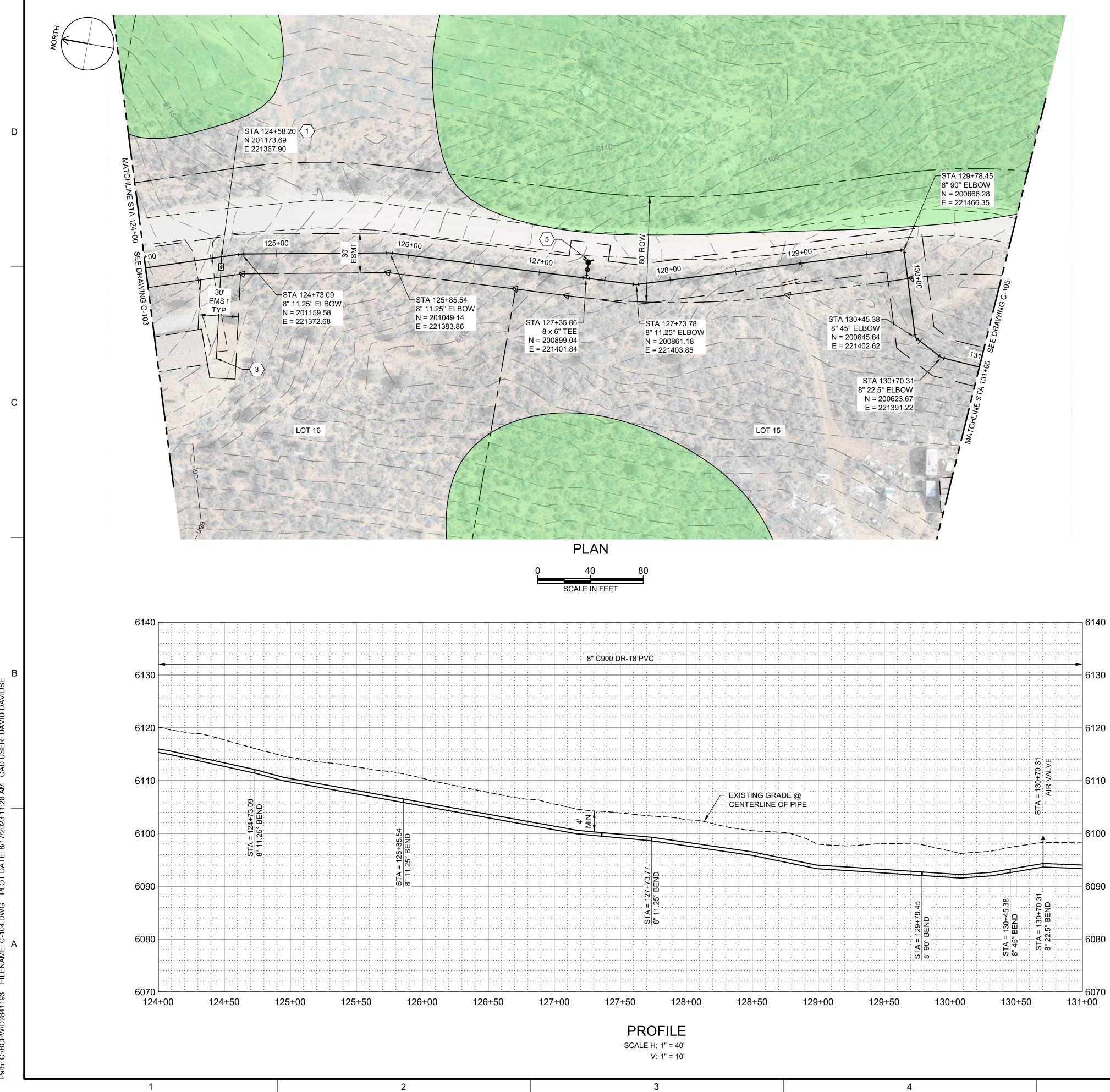
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GE	ENERAL NOTES				
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2.	CONTRACTOR TO FIELD VERIFY PHYSICAL LOCATION, ELEVATIONS AND INVERTS. ELEVATIONS ARE BASED ON NAVD 88 EXPRESS IN INTERNATIONAL FEET.				
3.	CONTRACTOR TO PROVIDE THRUST BLOCKS AT ALL ELBOWS, TEES, CROSSES PER NTUA STD DWG WS-19 DRAWING NO. C-004. MECHANICAL JOINT RESTRAINTS CAN BE UTILIZED IN PLACE OF THRUST BLOCKS. EBA IRON MEGALUG SERIES 2000 PV FOR FITTINGS AND SERIES 2500 FOR PIPE JOINTS - INSTALL PER MANUFACTURE'S RECOMMENDATIONS.		SALI	LAKE CITY, UTAH	D
4.	CONTRACTOR TO INSTALL PIPE IN TRENCH PER NTUA STD DWG WS-15 DRAWING C-003.	Т		AWING IS NOT VALID	
5.	DEFLECT PIPE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS NECESSARY.	PL	JRPOS	CONSTRUCTION ES UNLESS IT BEARS SEAL OF A DULY	
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\bigcirc	KEY NOTES				
1.	INSTALL WATER LATERAL PER DETAIL WS-1 DRAWING NO. C-002 WITH PRV.				
2.	PLUG AND STUB WATER LATERAL FOR FUTURE CONNECTION.				
3.	DETACH EXISTING PIPE FROM EXISTING CISTERN. REMOVE AND SALVAGE EXISTING CISTERN FOR REUSE BY OTHERS AND CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE FILL MATERIAL FOR REMOVED CISTERN. PROVIDE 95% COMPACTION.				
4.	INSTALL CAV VALVE PER DETAIL WS-10 DRAWING NO. C-003.		60%	SUBMITTAL	с
5.	INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.		INVAJ	TRIBAL UTILITY AUTHORITY	
6.	INSTALL 8" GATE VALVE PER DETAIL WS-14 DRAWING NO. C-003.		Nn. UT		
7.	INSTALL 16" STEEL CASING PER DETAIL WS-17A AND WS-18 DRAWING NO. C-004. PROVIDE STRUCTURAL FILL FOR ROAD CROSSING. REPLACE EXISTING ROAD BASE WITH SAME THICKNESS OR BETTER WITH 95% COMPACTION.		ITTE	UF	
8.	INSTALL CONCRETE ANCHOR BLOCK PER DETAIL W-33 DRAWING NO. C-005.			THE WY	
9.	DIRECTIONAL BORE HDPE WASH CROSSING, SEE DETAIL W-33 DRAWING NO. C-005.		WE	ESTWATER	
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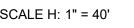
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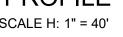


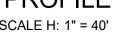
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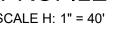


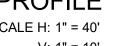






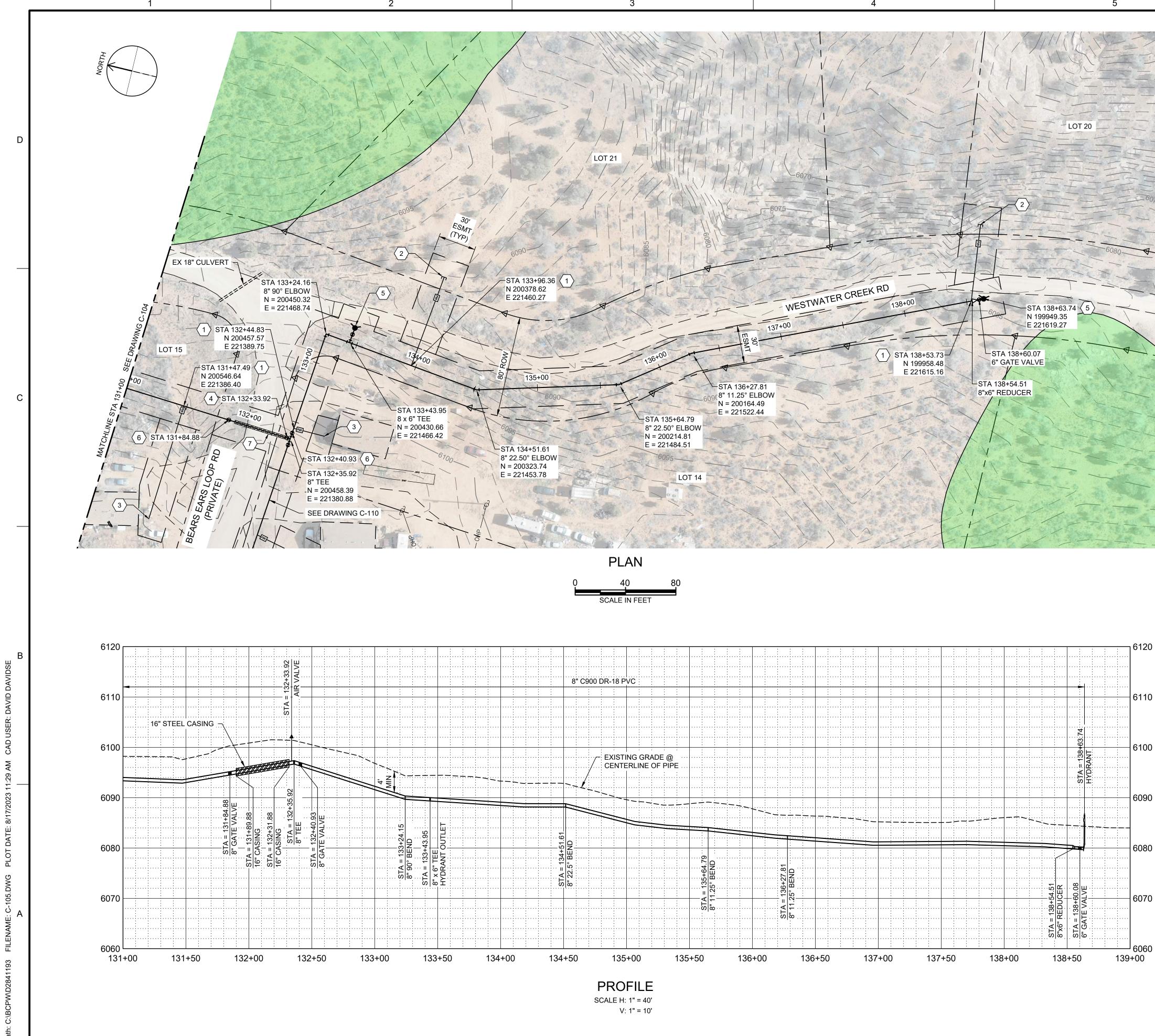


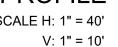




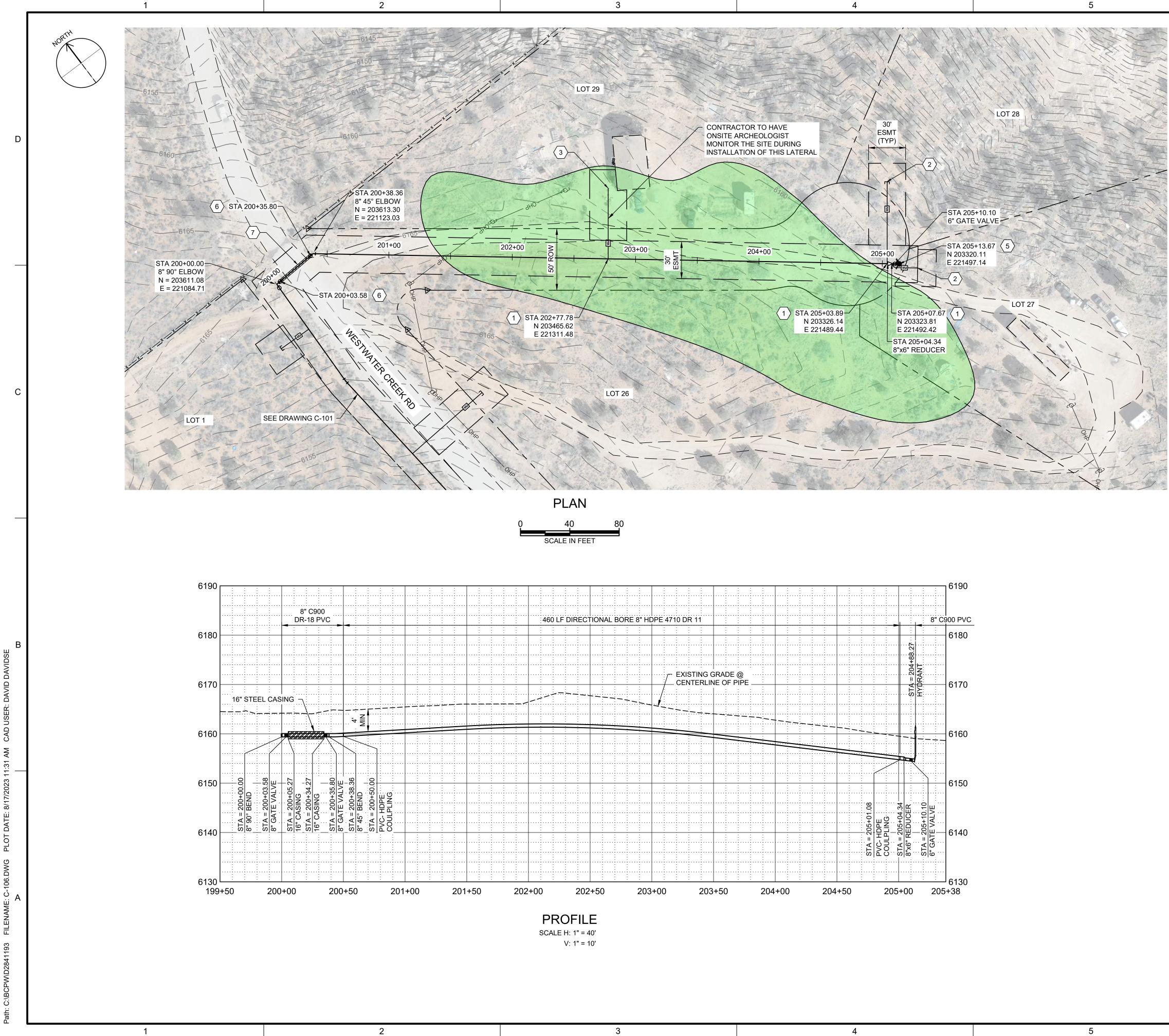


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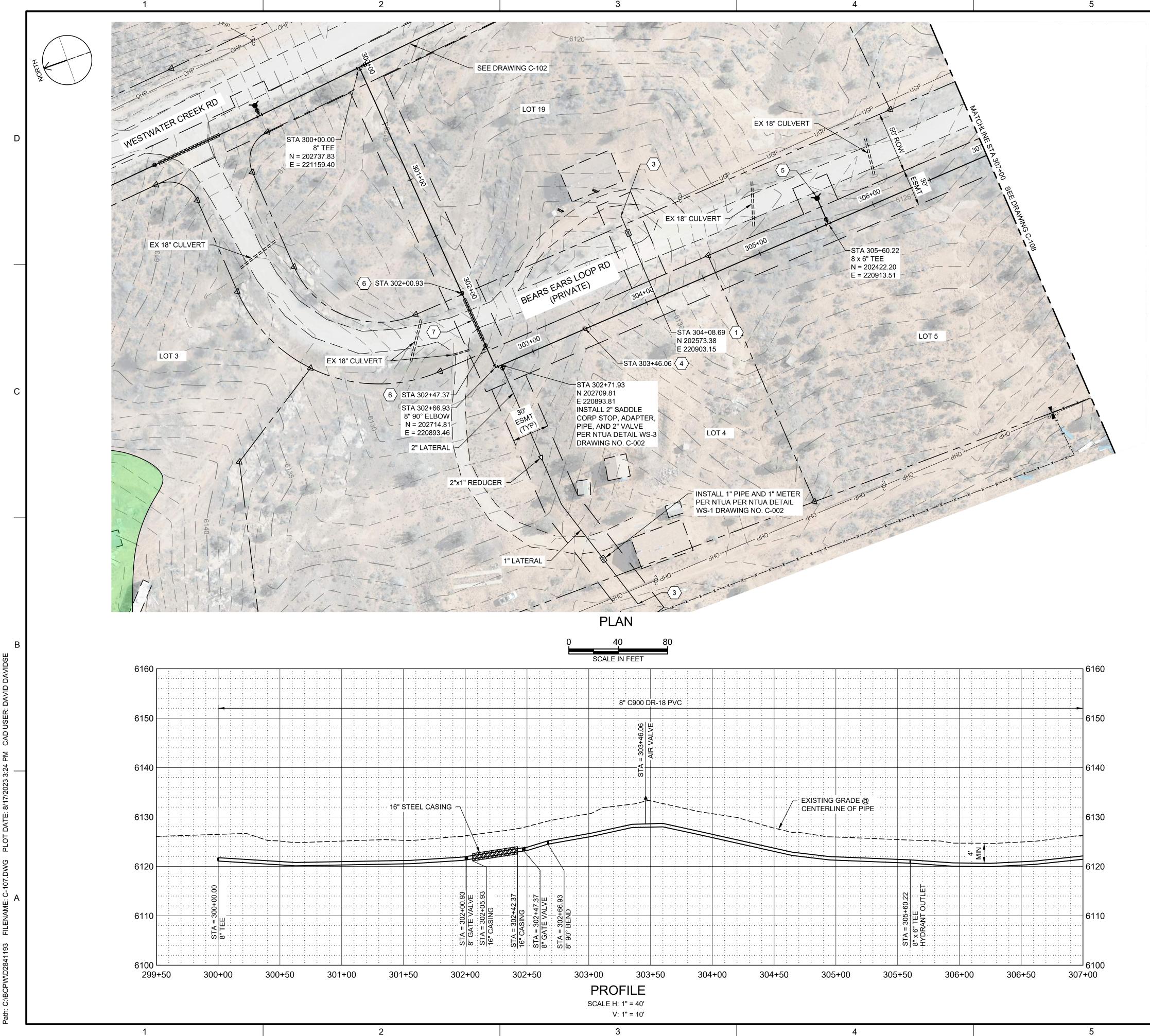




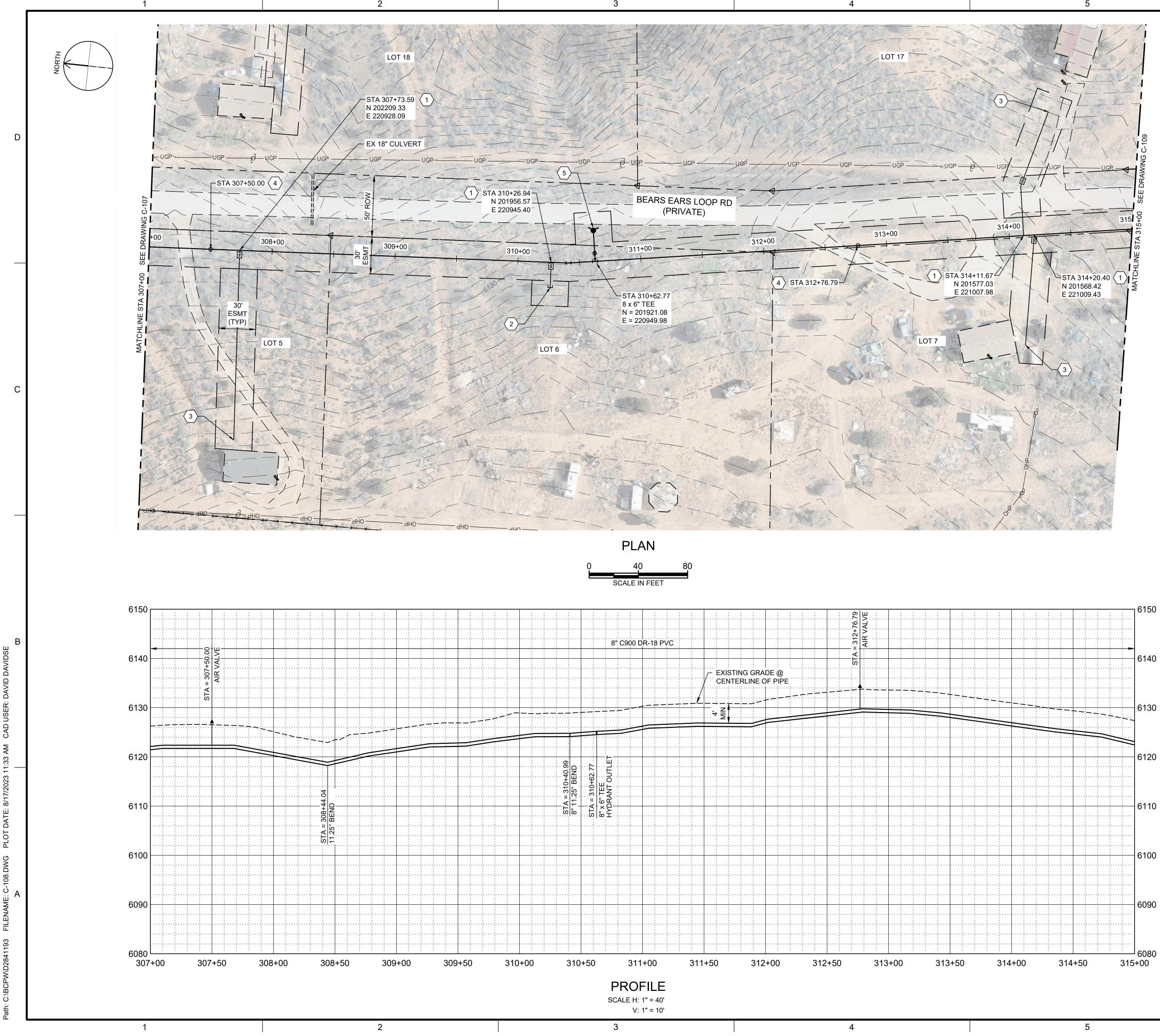
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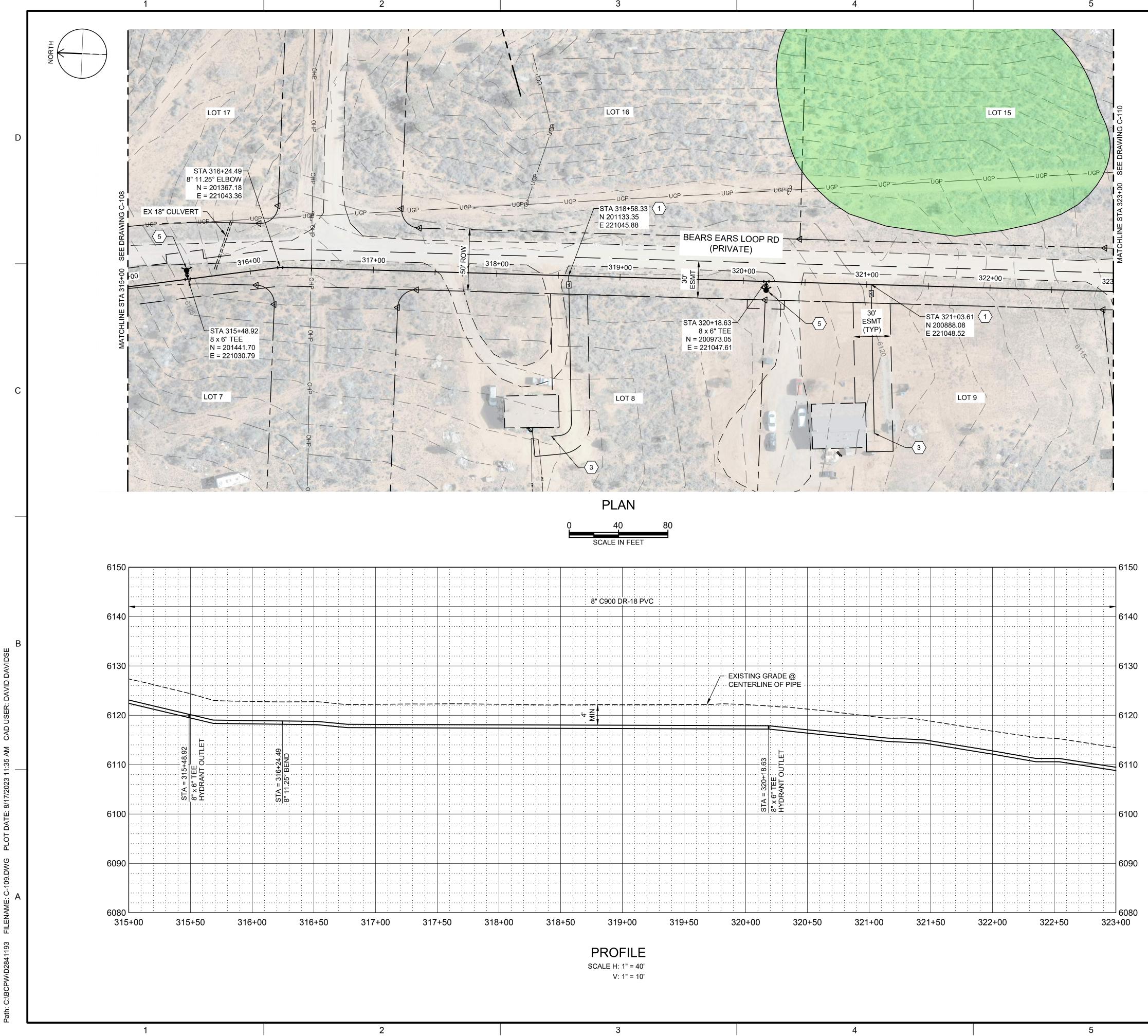
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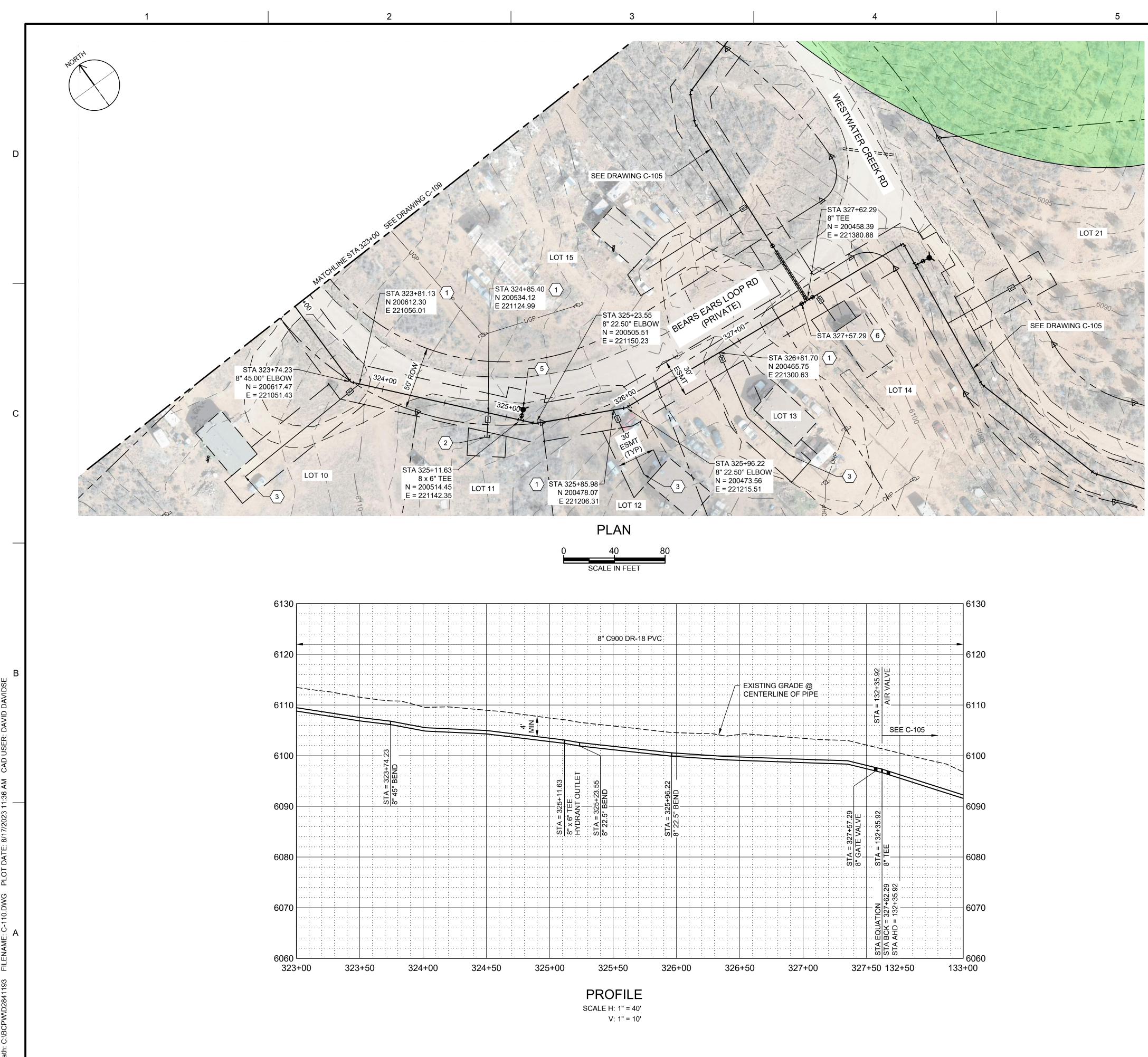
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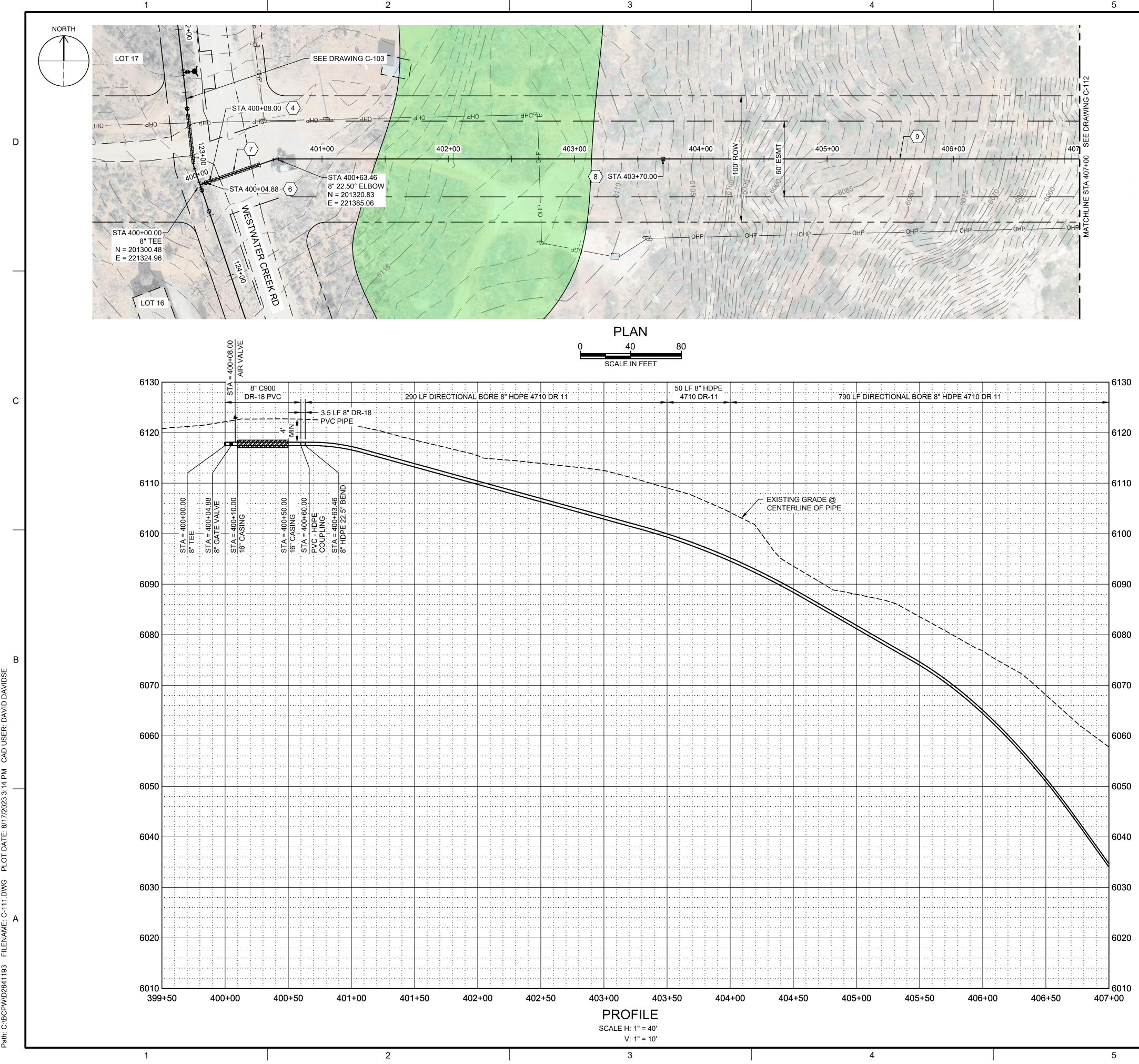
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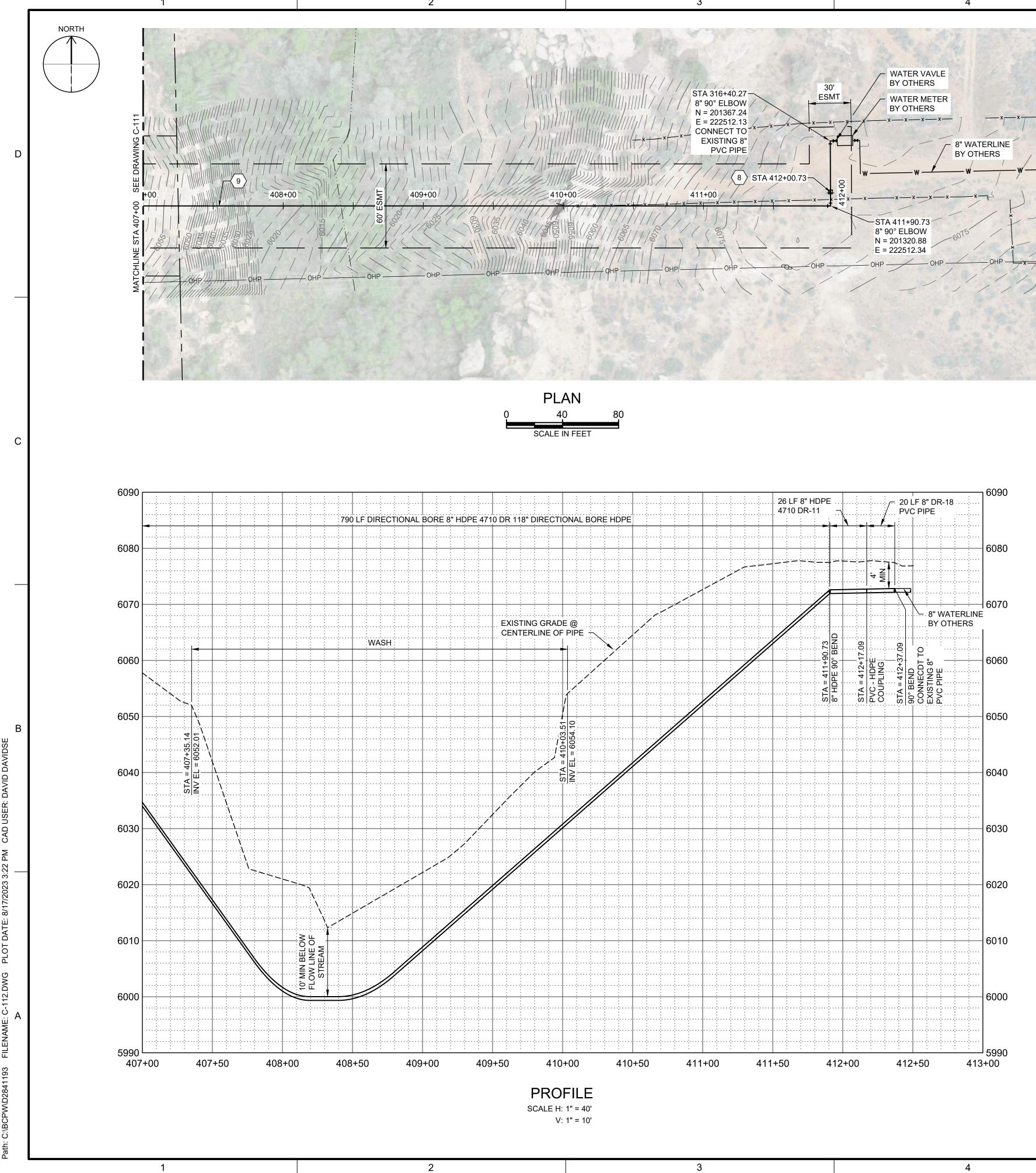


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5. DEFLECT PIPE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS NECESSARY.	FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL OF A DULY	
 ALL PIPING TO HAVE MJ X MJ FITTINGS UNLESS NOTED OR OTHERWISE SHOWN IN DETAILS. 	REGISTERED PROFESSIONAL	
1. INSTALL WATER LATERAL PER DETAIL WS-1 DRAWING NO. C-002 WITH PRV.		
2. PLUG AND STUB WATER LATERAL FOR FUTURE CONNECTION.		
3. DETACH EXISTING PIPE FROM EXISTING CISTERN. REMOVE AND SALVAGE EXISTING CISTERN FOR REUSE BY OTHERS AND CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE FILL MATERIAL FOR REMOVED CISTERN. PROVIDE 95% COMPACTION.		
 INSTALL CAV VALVE PER DETAIL WS-10 DRAWING NO. C-003. 	60% SUBMITTAL	С
5. INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.	NAVAJO TRIBAL UTILITY AUTHORITY	
 INSTALL 8" GATE VALVE PER DETAIL WS-14 DRAWING NO. C-003. 		
7. INSTALL 16" STEEL CASING PER DETAIL WS-17A AND WS-18 DRAWING NO. C-004. PROVIDE STRUCTURAL FILL FOR ROAD CROSSING. REPLACE EXISTING ROAD BASE WITH SAME THICKNESS OR BETTER WITH 95% COMPACTION.	TER TER TO	
8. INSTALL CONCRETE ANCHOR BLOCK PER DETAIL W-33 DRAWING NO. C-005.	THE WE	
9. DIRECTIONAL BORE HDPE WASH CROSSING, SEE DETAIL W-33 DRAWING NO. C-005.	WESTWATER	
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ARCHEOLOGICAL SITE	DESIGN	
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	LINE IS 2 INCHES	
	DESIGNED: C. WILLMORE	
	DRAWN: D. DAVIDSE CHECKED:	
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	APPROVED: S. BRENCHLEY FILENAME	
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	GENERAL NOTES			
	1. ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE, CONTRACTOR TO FIELD VERIFY AND POTHOLE AS REQUIRED TO COMPLETE THE WORK.	Brown AND Caldwell		
	 CONTRACTOR TO FIELD VERIFY PHYSICAL LOCATION, ELEVATIONS AND INVERTS. ELEVATIONS ARE BASED ON NAVD 88 EXPRESS IN INTERNATIONAL FEET. 			
	 CONTRACTOR TO PROVIDE THRUST BLOCKS AT ALL ELBOWS, TEES, CROSSES PER NTUA STD DWG WS-19 DRAWING NO. C-004. MECHANICAL JOINT RESTRAINTS CAN BE UTILIZED IN PLACE OF THRUST BLOCKS. EBA IRON MEGALUG SERIES 2000 PV FOR FITTINGS AND SERIES 2500 FOR PIPE JOINTS - INSTALL PER MANUFACTURE'S RECOMMENDATIONS. 	SALT LAKE CITY, UTAH	D	
	4. CONTRACTOR TO INSTALL PIPE IN TRENCH PER NTUA STD DWG WS-15 DRAWING C-003.	THIS DRAWING IS NOT VALID		
	5. DEFLECT PIPE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS NECESSARY.	FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL OF A DULY		
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