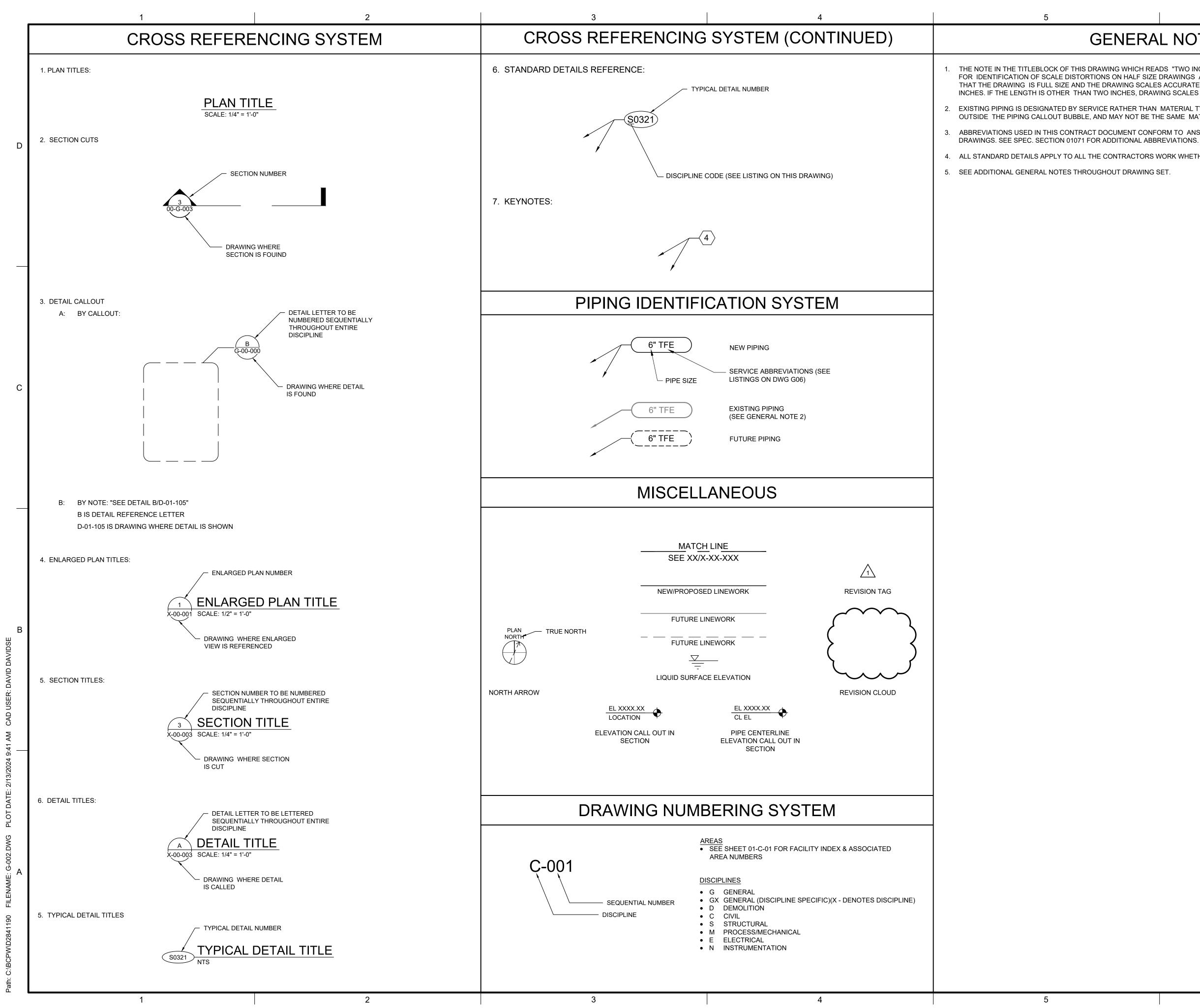




		SHEET NUMBER
		GENERAL
		OLINEIKAL
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SHEET NUMBER	DRAWING NUMBER	DESCRIPTION
GENERAL		
1 G-000		COVER SHEET
2	G-001	DRAWING INDEX
3	G-002	STANDARD SYMBOLS
4	G-003	STANDARD ABBREVIATIONS
CIVIL	Į.	
5	C-001	GENERAL CIVIL NOTES AND SYMBOLS
6	C-002	NTUA DETAILS - 1
7	C-003	NTUA DETAILS - 2
8	C-004	NTUA DETAILS - 3
9	C-005	IHS DETAILS
10	C-100	KEY MAP
11	C-101	PLAN AND PROFILE STA 100+00 TO STA 108+00
12	C-102	PLAN AND PROFILE STA 108+00 TO STA 116+00
13	C-103	PLAN AND PROFILE STA 116+00 TO STA 124+00
14	C-104	PLAN AND PROFILE STA 124+00 TO STA 131+00
15	C-105	PLAN AND PROFILE STA 131+00 TO STA 138+63.74
16	C-106	PLAN AND PROFILE STA 200+00 TO STA 205+13.67
17	C-107	PLAN AND PROFILE STA 300+00 TO STA 307+00
18	C-108	PLAN AND PROFILE STA 307+00 TO STA 315+00
19	C-109	PLAN AND PROFILE STA 315+00 TO STA 323+00
20	C-110	PLAN AND PROFILE STA 323+00 TO STA 327+62.29
21	C-111	PLAN AND PROFILE STA 400+00 TO STA 407+00
22	C-112	PLAN AND PROFILE STA 407+00 TO STA 412+37.09
	SHEET 1 OF 1	NTUA WATERLINE EASEMENT EXHIBIT
	SHEET 1 OF 2	WESTWATER SUBDIVISION NTUA WATERLINE EASEMENT
	SHEET 2 OF 2	WESTWATER SUBDIVISION NTUA WATERLINE EASEMENT





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.



A AC ACC ACP ACST ACU AF AHU AMD .ANC AR	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	EMBD ENCL E/P EPR EQ EQUIP ES EWEF EWT EXG EXIST
ARV AS ATP ATS AV	AIR RELEASE VALVE AIR SUPPLY VERTICAL TURBINE PUMP AIR RELEASE VALVE AUTOMATIC TRANSFER SWITCH ANGLE VALVE	F FAI FB FC FCL
BAC BAV BC BCR BCOP BFP BFV BGAT BF BHP BSN BUV	BACTERIOLOGICAL BALL VALVE BEGINNING OF CURVE BEGINNING OF CURVE RETURN BARE COPPER BACK FLOW PREVENTER BUTTERFLY VALVE BOOLEAN GATE BLIND FLANGE BRAKE HORSEPOWER BAR SCREEN BUTTERFLY VALVE	FCR FE FF F-F FH FIN FIT FL FLC FLP FLR FLT FM
CAB CAF CAV CC C-C CCP CCSP CD	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	FMH FMX FO FP FPC FPC-T FRS FS FS FT
CDR CDU CED CF CFH CFR CHR CIRC CK CKPL C	CONDUCTOR CONDENSING UNIT CEILING EXHAUST DIFFUSER CEILING EXHAUST REGISTER CUBIC FEET CUBIC FEET PER HOUR CODE OF FEDERAL REGULATIONS CHILLER CIRCUMFERENCE CHECKER(ED) CHECKER PLATE CENTERLINE	G GAC GB GBV GDR GEN GFI GPD GRDR GRT GSP
CL CL2 CM CMA CMC CML CMPA CNTL CO2 COD	CLEARANCE CHLORINE MANUAL CONTROL STATION MANUAL-AUTO CONTROL STATION CEMENT MORTAR COATED CEMENT MORTAR LINED ASBESTOS PROTECTED CORRUGATED METAL PIPE CONTROL CARBON DIOXIDE CHEMICAL OXYGEN DEMAND	GT GV H/A HC HEX HDOT HG HHV HOA
COF COM COND CONN CJ CONT CP CPVC CR CRF	COOLING AIR FAN COMMINUTOR CONVEYOR CONDUCTIVITY CONNECTION CONSTRUCTION JOINT CONTINUED COMPRESSOR CHLORINATED POLYVINYL CHLORIDE CONDUIT RACK CHEMICAL FEEDER	HOR HP HR HSS HTV HV HV HVAC HWAC HWTR HYDT ICN
CRF CRN CREJ CSD CTF CTR CV DB	CHEMICAL FEEDER CRANE CORRUGATED RUBBER EXPANSION JOINT CEILING SUPPLY DIFFUSER CENTRIFUGE CONTRACTOR, CONTROL UNIT CONTROL VALVE DUCT BANK	IF IL INF INS INTER INT INV
DE DF DG DI DM DR DT DU	DENSITY METER DRINKING FOUNTAIN DUCT FIRE DAMPER DOOR GRILLE DUCTILE IRON DAMPER MOTOR DRAIN ROCK DRAIN TRAP DRIVE UNIT	IT JST K KV KVA KVA KVAR KW
DWF EA EAT EAU EC ECU ED EE EF	DRY WEATHER FLOW EXHAUST AIR / ENVIRONMENTAL ASSESSMENT ENTERING AIR TEMPERATURE ENGINE ALTERNATOR UNIT END OF CURVE EVAPORATIVE COOLING UNIT EXTRACTOR DAMPER, EQUIPMENT DRAIN EACH END EXHAUST FAN	LAT LCP LE LEL LGW LIT LOD LOS LS
EFF EG EJ EL ELL	EFFLUENT EXHAUST GRILLE EXPANSION JOINT ELEVATION ELBOW	MBH MCC MCM MCU

NOTES:

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

1

2. ABBREVIATIONS FOR PIPING SYSTEMS ARE SPECIFIED IN SECTION 15050.

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	A

HIGH SIGNAL SELECT HIGH TEMPERATURE VENT HOSE VALVE HEATING AND VENTILATING HEATING, VENTILATING AND AIR C HIGH WATER HYDRANT INCINERATOR
INSIDE FACE INDICATING LAMP INFLUENT INSULATE(D)(ION) INTERMEDIATE INTERIOR INVERT INSTRUMENT TAP
JOIST
KIP (1000 POUNDS) KILOVOLT KILOVOLT AMPERE KILOVAR KILOWATT
LEAVING AIR TEMPERATURE, LATE LOCAL CONTROL PANEL LEVEL METER LOWER EXPLOSIVE LIMIT LOWER GREASEWOOD LEVEL INDICATION TRANSMITTER LIMITS OF DISTURBMENTS LOCKOUT STOP LIMIT SWITCH
THOUSAND BTU'S PER HOUR MOTOR CONTROL CENTER THOUSAND CIRCULAR MILLS MASTER CONTROL UNIT
Ι

D	

С

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2

EMBEDDED ENCLOSURE

EVAPORATOR

EQUAL EQUIPMENT

ELECTRIC/PNEUMATIC

EXISTING SURFACE EACH WAY EACH FACE

EXHAUST GRILLE

FRESH AIR INTAKE FLAT BAR, FLOOR BEAM

FAIL CLOSED FREE CHLORINE FINE CRUSHED ROCK

FLOWMETER

FACE TO FACE

FINISHED

FLOW LINE FLOCCULATOR FLUID POWER UNIT

FLASH MIXER FAIL OPEN FILTER PRESS

FREEZESTAT

FLASH TANK

GRADE BREAK GLOBE VALVE GRINDER

GENERATOR

GRINDER GROUT

GATE VALVE

HAND AUTO HEATING COIL HEAT EXCHANGER HEAVY DUTY OILTIGHT MERCURY, HAND GRADE

HEAT HOSE VALVE HAND-OFF-AUTO

HIGH SIGNAL SELECT

HANDRAIL, HEAT RESERVOIR

HIGH PRESSURE, HIGH POINT, HORSEPOWER

HORIZONTAL

2

GATE

GALLONS PER DAY

GALVANIZED STEEL PIPE

FLOOR FILTER

EXISTING

ENTERING WATER TEMPERATURE

FAHRENHEIT, FACE, FUSE(D), FAN

FAR FACE / FINISHED FLOOR

FORCE MAIN , FLOW METER FLEXIBLE METAL HOSE

FLEXIBLE PIPE COUPLING FPC TO TAKE TENSION

FLOW SWITCH, FIRESTAT

POWER ACTUATED GATE

GRANULATING ACTIVATED CARBON

GROUND FAULT INTERRUPTOR

FLOW INDICATING TRANSMITTER

FIRE HYDRANT, FLATHEAD

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
ипс	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	
)L)-0	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	I V	
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, WEI WEATHER
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		

NG AND AIR CONDITIONING	

RATURE, LATERAL, LATITUDE

SEP

SG

SI

SIM SL SLG

SUPPLY GRILLE, SLUICE GATE

SEPARATOR

SIMILAR

SLOPE

SLIDE GATE

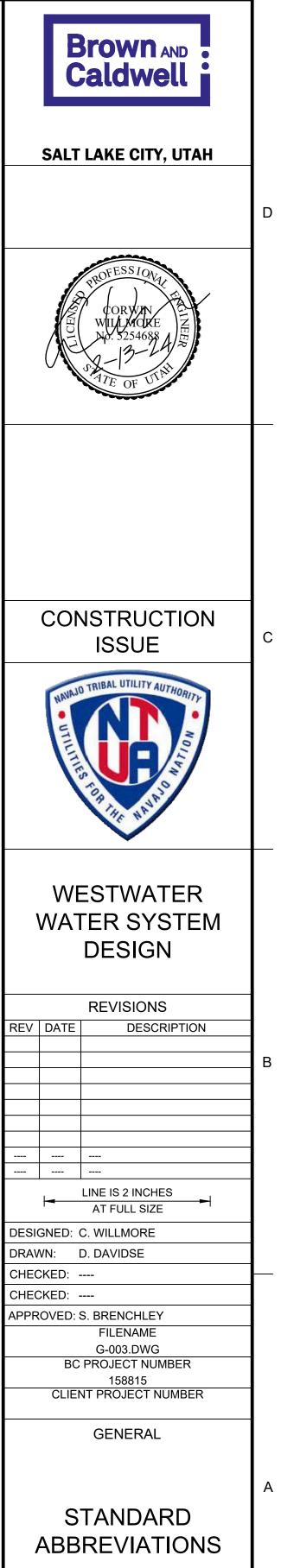
SPEED INCREASER

СТ

, SPEED SELECTOR

R FLOW

6



DRAWING NUMBER G-003 SHEET NUMBER OF 22

_	1			2		
	CIVIL SY	(MBOLS				
	w	WATERLINE	GE	NERAL NOTES	SIT	TE GRA
		EXISTING WATERLINE	1.	CONTRACTOR SHALL VERIFY (POTHOLE IF		STRIP
	OHP	OVERHEAD POWER LINE		NECESSARY) ALL EXISTING UTILITIES (VERTICAL AND HORIZONTAL LOCATION),		ACCOF 02200
D	OHP	EXISTING OVERHEAD		CONDUITS, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS PRIOR TO THE	2.	
	UGTEL	POWER LINE EXISTING UNDERGROUND	2	START OF WORK. FENCES, SIGNS, CURBS, LIGHT POLES,		SHALL OTHEF
		TELEPHONE LINE		IRRIGATION PIPING, CONTROL WIRING, AND SPRAY HEADS, ETC. SHALL BE REMOVED AND	3.	CONTF EARTH
	G	EXISTING GAS LINE		REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL		MATEF
	00 xx	EXISTING FENCE		SUCH WORK SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT. ALL		FOR TH
	6700	CONTOUR LINE		DISTURBED AREAS INCLUDING CONCRETE STEPS, TIMBER STEPS, RETAINING WALLS, CONCRETE SIDEWALKS, PAVEMENT, LIGHT	4.	ALL CA VALVE WITH S
	6700	EXISTING CONTOUR LINE		POSTS, CURBS, UNDERGROUND PIPING AND STRUCTURES SHALL BE RESTORED TO MATCH		TO MA
	•	GATE VALVE		EXISTING UNLESS OTHERWISE NOTED.	5.	CONTR
	WV X	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 COMPI
		EXISTING WELL	4.		0	REGUL
0	-	POWER POLE		APPARATUS, MATERIALS, SUPPLIES, AND EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.	6.	WHER AND R THE EX
С	ى ت	EXISTING POWER POLE	5.			GRADI
	<u>(</u>	EXISTING GUY WIRE		SLOPES TO MEET EXISTING SLOPES WHERE SHOWN ON PLANS.	7.	
	D	REDUCER EXISTING REDUCER	6.	THE CONTRACTOR SHALL INSTALL AND		DISTUI MANAC
	•	FLUSH VALVE	7	MAINTAIN EROSION CONTROL DEVICES.	CIT	
	Ť	AIR RELEASE VALVE	/.	THE CONTRACTOR SHALL NOTIFY NTUA AT LEAST 72 HOURS PRIOR TO EXCAVATING NEAR ANY UTILITIES.		ALL PI
	•	SURVEY MARKING	8.			BETWE
		WATER LINE CASING		COORDINATED AND APPROVED BY THE CONSTRUCTION MANAGER AND NTUA. LIMITED		PERMI BENDS
				SPACE IS AVAILABLE WITHIN THE SITE. NTUA SHALL NOT BE RESPONSIBLE FOR		RESTR (HORIZ
				PROTECTING OR SECURING CONTRACTOR LAYOUT AND STORAGE AREAS, AND OWNER SHALL NOT BE LIABLE FOR THEFT OR DAMAGE		TO ME INDICA
				TO CONTRACTORS STORED MATERIALS OR EQUIPMENT.	2.	ALL BL SHALL
			9.	ALL EXISTING UTILITY INFORMATION WAS		FLEXIE FEET F
В				OBTAINED FROM SOUTH EASTERN UTAH HEALTH DEPARTMENT, INDIVIDUAL HOME		TYPE (BE RES
				OWNERS, NAVAJO AREA INDIAN HEALTH SERVICES (NAIHS), <u>NTUA AND FIELD SURVEY</u> .	3.	-
				THIS INFORMATION MAY NOT BE COMPLETELY ACCURATE OR INDICATE ALL OF THE UTILITIES, UNDERGROUND PIPING, OR BURIED		BASES LOCAT MANUF
				STRUCTURES PRESENT.		NOT BI
			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.		
			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		
А				RESPONSIBILITIES AND RELATED COSTS.		
		1				
	1			2		

- PPING OF TOPSOIL SHALL BE IN ORDANCE WITH SPECIFICATION SECTION DEARTHWORK.
- 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 SAN JUAN COUNTY 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 02270.

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 CATED ON THE DRAWINGS.
- URIED 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 02200 AND CIVIL DETAILS FOR PIPE AND STRUCTURE BEDDING AND BACKFILL REQUIREMENTS.
- 6. COMPACTION TESTS WILL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02200, EARTHWORK. ANY SETTLEMENT OCCURRING WITHIN ONE YEAR OF FINAL COMPLETION OF THE WORK SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.
- 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.
- 9. 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, CONCRETE USED FOR ENCASEMENT, ANCHOR BLOCKS, BACKING, PIPE CRADLES, ARCHES AND FILL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

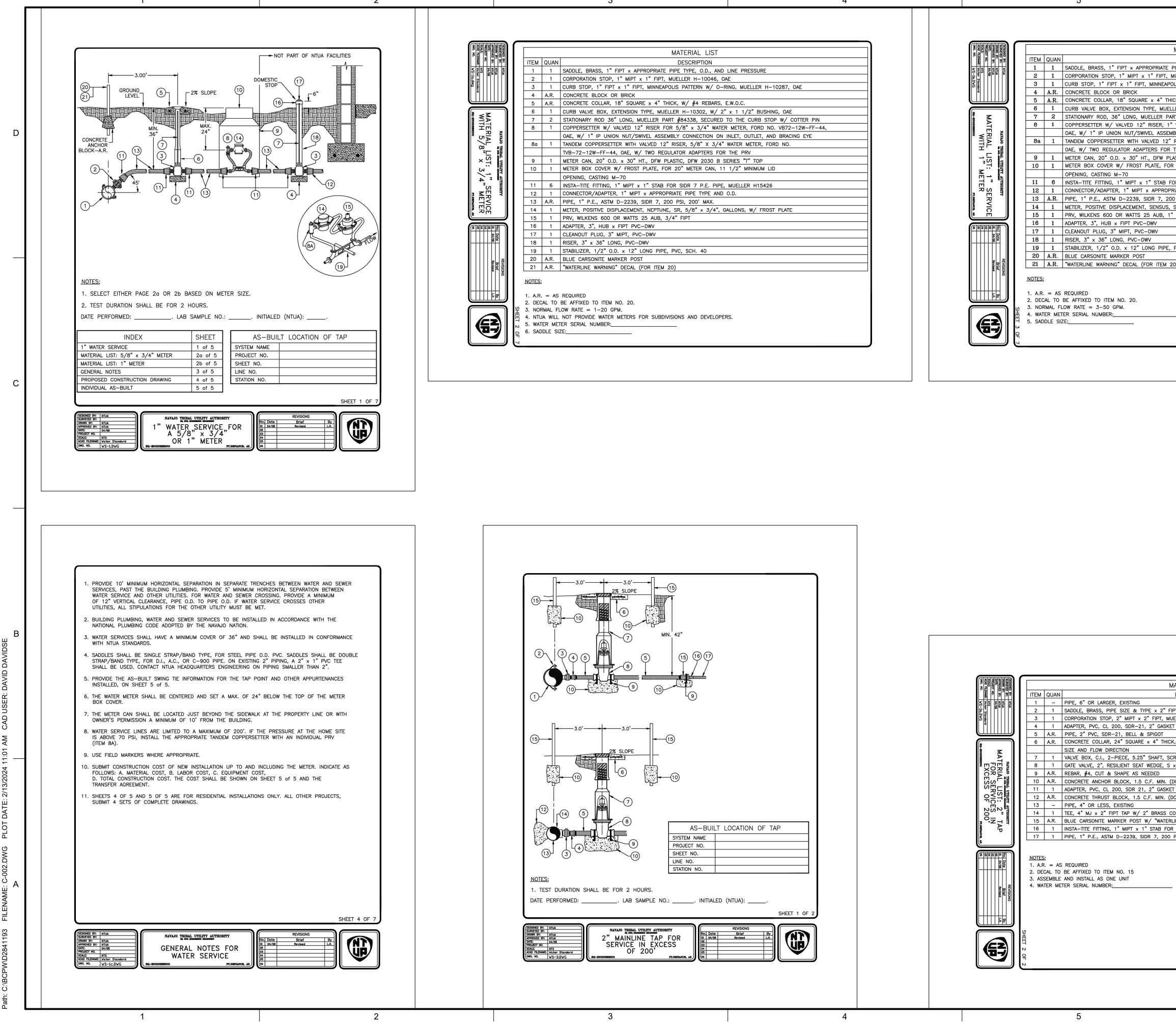
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- 14. SURVEY COORDINATES AND ELEVATIONS SHALL BE PROVIDED FOR ALL BURIED PIPIN BENDS AND VALVES ON AS-BUILT DRAWING
- 15. PROVIDE VALVE BOXES FOR ALL BURIED VALVES.
- 16. THE CONTRACTOR WILL POTHOLE AS REQUIRED AND SHALL FIELD INVESTIGATE PIPING AND 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 ALTERNATE TRENCH DETAIL WS-15 ON 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. 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.
- 3. 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.
- 4. WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE DISTANCES FROM THE DRAWING REPORT ANY DISCREPANCIES IMMEDIATELY TO THE CONSTRUCTION MANAGER.

	6		
		Brown AND Caldwell	
TE	PERMITS AND NOTIFICATION NOTES 1. THE CONTRACTOR SHALL COMPLETE A		
S, L	STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE PROJECT. SEE SPECIFICATION SECTION 01561.	SALT LAKE CITY, UTAH	
NG GS.	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.	PROFESSION CORVIN WILLMORE	D
NG NES ED	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 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	TE OF UT N	
	CONTRACTOR SHALL REQUEST PERMISSION AT LEAST FOUR (4) WORKING DAYS PRIOR TO THE DAY PLANNED FOR ANY UTILITY		
CT ES	SHUT-DOWN. ALL UTILITY SHUT-DOWNS ARE SUBJECT TO APPROVAL BY THE OWNER.	CONSTRUCTION ISSUE	С
	SURVEY DATUM	NAVAJO TRIBAL UTILITY AUTHORITY	
E K	1. THE "PROJECT COORDINATES" AND BEARINGS AND DISTANCES DERIVED THEREFROM ARE EXPRESSED IN A LOCAL GROUND SYSTEM DEFINED AS FOLLOWS:	IN THE REAL PROPERTY OF THE RO	
Ē	HORIZONTAL DATUM = NORTH AMERICAN DATUM OF 1983 (N.A.D.83)	TER HUMAN	
	VERTICAL DATUM = NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88)	•	
ES	COORDINATE SYSTEM = US STATE PLANE 1983, UTAH SOUTH ZONE (4303)	WESTWATER WATER SYSTEM	
E .L	PROJECTED AT GROUND	DESIGN	
	GEOID MODEL = GEOID 18	REVISIONS	
'OR D	UNITS = US SURVEY FOOT	REV DATE DESCRIPTION	
	FALSE NORTHING = -10,000,000		В
, NGS.	FALSE EASTING = -2,000,000		
_Y	COMBINED SCALE FACTOR = 0.99965728 POINTS WERE SCALED FROM COORDINATE 0,0 IN THE NAD 83 US STATE PLAN UTAH SOUTH ZONE COORDINATE SYSTEM USING THE COMBINED SCALE	 LINE IS 2 INCHES AT FULL SIZE	
	FACTOR LISTED ABOVE.	DESIGNED: C. WILLMORE	
	(SCALING LATITUDE = N10°28'48.68912") SCALING LONGITUDE = W115°36'46.30451")	DRAWN: D. DAVIDSE CHECKED: CHECKED:	
	TO CONVERT TO STATE PLANE COORDINATES USE THE FOLLOWING:	APPROVED: S. BRENCHLEY FILENAME C-001.DWG	
	STATE PLANE NORTHING = (PROJECT NORTHING + 10,000,000) / 1.00034284	BC PROJECT NUMBER 158815 CLIENT PROJECT NUMBER	
	STATE PLANE EASTING = (PROJECT EASTING + 2,000,000) / 1.00034284.	CIVIL	
		GENERAL CIVIL NOTES AND SYMBOLS DRAWING NUMBER C-001 5 SHEET NUMBER OF 22	A



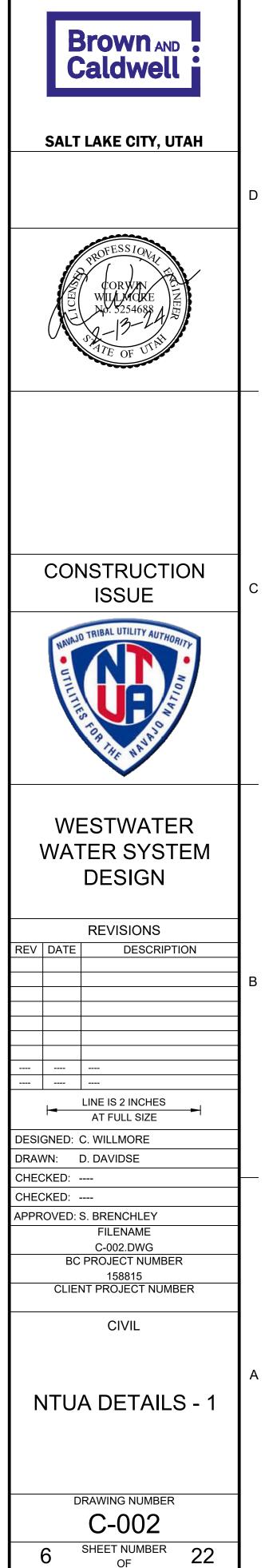
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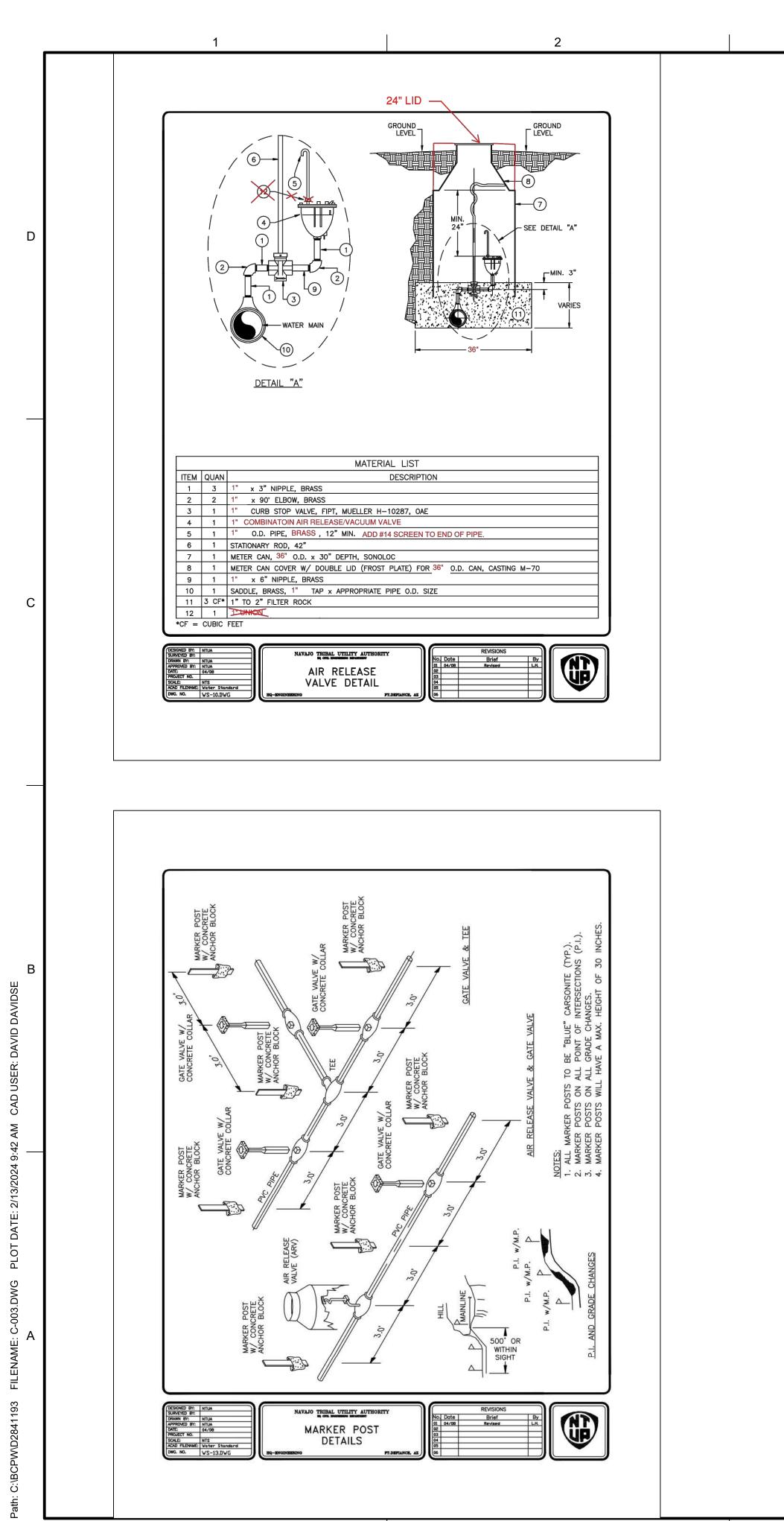
	MATERIAL LIST
٧	DESCRIPTION
	SADDLE, BRASS, 1" FIPT x APPROPRIATE PIPE TYPE, O.D., AND LINE PRESSURE
	CORPORATION STOP, 1" MIPT x 1" FIPT, MUELLER H-10046, OAE
	CURB STOP, 1" FIPT x 1" FIPT, MINNEAPOLIS PATTERN W/ O-RING, MUELLER H-10287, OAE
	CONCRETE BLOCK OR BRICK
	CONCRETE COLLAR, 18" SQUARE x 4" THICK, W/ #4 REBARS, E.W.O.C.
	CURB VALVE BOX, EXTENSION TYPE, MUELLER H-10302, W/ 2" x 1 1/2" BUSHING, OAE
	STATIONARY ROD 36" LONG, MUELLER PART #84338, SECURED TO THE CURB STOP W/ COTTER PIN
	COPPERSETTER W/ VALVED 12" RISER FOR 5/8" x 3/4" WATER METER, FORD NO. VB72-12W-FF-44,
	OAE, W/ 1" IP UNION NUT/SWIVEL ASSEMBLY CONNECTION ON INLET, OUTLET, AND BRACING EYE
	TANDEM COPPERSETTER WITH VALVED 12" RISER, 5/8" X 3/4" WATER METER, FORD NO.
	TVB-72-12W-FF-44, OAE, W/ TWO REGULATOR ADAPTERS FOR THE PRV
	METER CAN, 20" O.D. x 30" HT., DFW PLASTIC, DFW 2030 B SERIES "T" TOP
	METER BOX COVER W/ FROST PLATE, FOR 20" METER CAN, 11 1/2" MINIMUM LID
	OPENING, CASTING M-70
	INSTA-TITE FITTING, 1" MIPT x 1" STAB FOR SIDR 7 P.E. PIPE, MUELLER H15426
	CONNECTOR/ADAPTER, 1" MIPT x APPROPRIATE PIPE TYPE AND O.D.
	PIPE, 1" P.E., ASTM D-2239, SIDR 7, 200 PSI, 200' MAX.
	METER, POSITIVE DISPLACEMENT, NEPTUNE, SR, 5/8" x 3/4", GALLONS, W/ FROST PLATE
	PRV, WILKENS 600 OR WATTS 25 AUB, 3/4" FIPT
	ADAPTER, 3", HUB x FIPT PVC-DWV
	CLEANOUT PLUG, 3" MIPT, PVC-DWV
	RISER, 3" × 36" LONG, PVC-DWV
	STABILIZER, 1/2" O.D. x 12" LONG PIPE, PVC, SCH. 40
	BLUE CARSONITE MARKER POST
	"WATERLINE WARNING" DECAL (FOR ITEM 20)

DESIGN DRAWNE APPROVE ACAD T			
Esigned By: Lurveyed By: Rrann By: PPROVED By: Rouet No. Colet No.	ITEM	QUAN	
	1	1	SADDLE, BRASS, 1" FIPT × APPROPRIATE F
NTUA NTUA NTUA 04/08 NTS	2	1	CORPORATION STOP, 1" MIPT x 1" FIPT, M
	3	1	CURB STOP, 1" FIPT x 1" FIPT, MINNEAPO
	4	A.R.	CONCRETE BLOCK OR BRICK
	5	A.R.	CONCRETE COLLAR, 18" SQUARE x 4" THI
	6	1	CURB VALVE BOX, EXTENSION TYPE, MUEL
z	7	2	STATIONARY ROD, 36" LONG, MUELLER PA
A	8	1	COPPERSETTER W/ VALVED 12" RISER, 1"
MATERIAL LIST:			OAE, W/ 1" IP UNION NUT/SWIVEL ASSEM
RIAL LIST: 1" SE	8a	1	TANDEM COPPERSETTER WITH VALVED 12"
			OAE, W/ TWO REGULATOR ADAPTERS FOR
	9	1	METER CAN, 20" O.D. × 30" HT., DFW PL
	10	1	METER BOX COVER W/ FROST PLATE, FOR
1" SERVI			OPENING, CASTING M-70
"THO	11	6	INSTA-TITE FITTING, 1" MIPT x 1" STAB F
SE	12	1	CONNECTOR/ADAPTER, 1" MIPT x APPROP
R	13	A.R.	PIPE, 1" P.E., ASTM D-2239, SIDR 7, 20
/ic	14	1	METER, POSITIVE DISPLACEMENT, SENSUS,
	15	1	PRV, WILKENS 600 OR WATTS 25 AUB, 1"
	16	1	ADAPTER, 3", HUB x FIPT PVC-DWV
	17	1	CLEANOUT PLUG, 3" MIPT, PVC-DWV
Date 04/08	18	1	RISER, 3" × 36" LONG, PVC-DWV
	19	1	STABILIZER, 1/2" O.D. × 12" LONG PIPE,
	20	A.R.	BLUE CARSONITE MARKER POST
REVISIONS Brief Revised	21	A.R.	"WATERLINE WARNING" DECAL (FOR ITEM 2
NS SNC	NOTES	:	
┼┼┼┟┼┥║║║	1 A R	= 45	REQUIRED
F₽			BE AFFIXED TO ITEM NO. 20.
S S	3. NO	RMAL FI	LOW RATE = 3-50 GPM.
			ER SERIAL NUMBER:
	5. SAD	DLE SI	ZE:

MATERIAL LIST
DESCRIPTION
PIPE TYPE, O.D., AND LINE PRESSURE
MUELLER H-10046, OAE
POLIS PATTERN W/ O-RING, MUELLER H-10287, OAE
HICK, W/ #4 REBARS, E.W.O.C.
ELLER H-10302, W/ 2" x 1 1/2" BUSHING, OAE
PART #84338, SECURED TO THE CURB STOP W/ COTTER PIN
1" WATER METER, FORD NO. VB74-12W-FF-44,
EMBLY CONNECTION ON INLET, OUTLET, AND BRACING EYE
" RISER, 1" WATER METER, FORD NO. TVB-74-12W-FF-44,
R THE PRV
PLASTIC, DFW 2030 B SERIES "T" TOP
OR 20" METER CAN, 11 1/2" MINIMUM LID
FOR SIDR 7 P.E. PIPE, MUELLER H15426
PRIATE PIPE TYPE AND O.D.
200 PSI, 200' MAX.
S, SR, 1", GALLONS, W/ FROST PLATE
1" FIPT
E, PVC, SCH. 40
20)
)

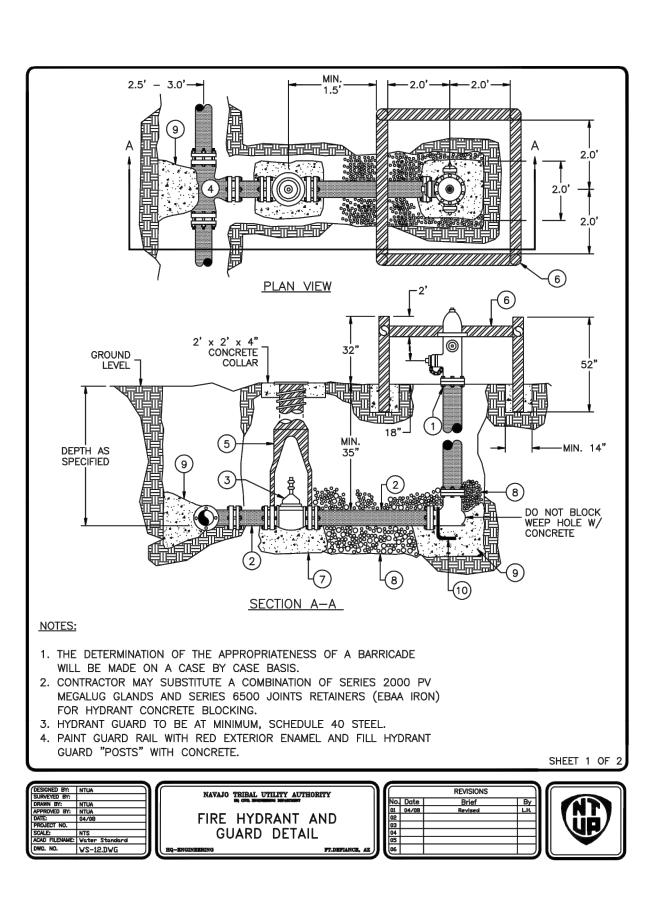
MATERIAL LIST	
DESCRIPTION	
TPT TAP, 6" AND LARGER	
UELLER B-20046	
ET x 2" MIPT	
	D
K, W/ #4 REBARS, E.W.O.C., INSCRIBED W/ LINE	D
CREW TYPE, TYLER 6850 SERIES W/ LID	С
x S, NRS, RHT, 2" OPERATING NUT-MUELLER A2360-37	С
(DO NOT COVER JOINTS OR BOLTS)	AF
ET x 2" FIPT	
DO NOT COVER JOINTS OR BOLTS)	
CORP. STOP (FIG. 2–1) OR 2" TEE, PVC, CL 200	
RLINE WARNING" DECAL	
R SIDR 7 P.E. PIPE, MUELLER H15426	
PSI, 200' MAX.	
FIGURE 2–1 <u>RECOMMENDED INSTALLATION</u> : 4" MJ × 2" FIPT TAP TEE OPTIONAL (12) (2) (3) (3) (3) (4) (5) (5) (5) (5) (5) (5) (5) (5	
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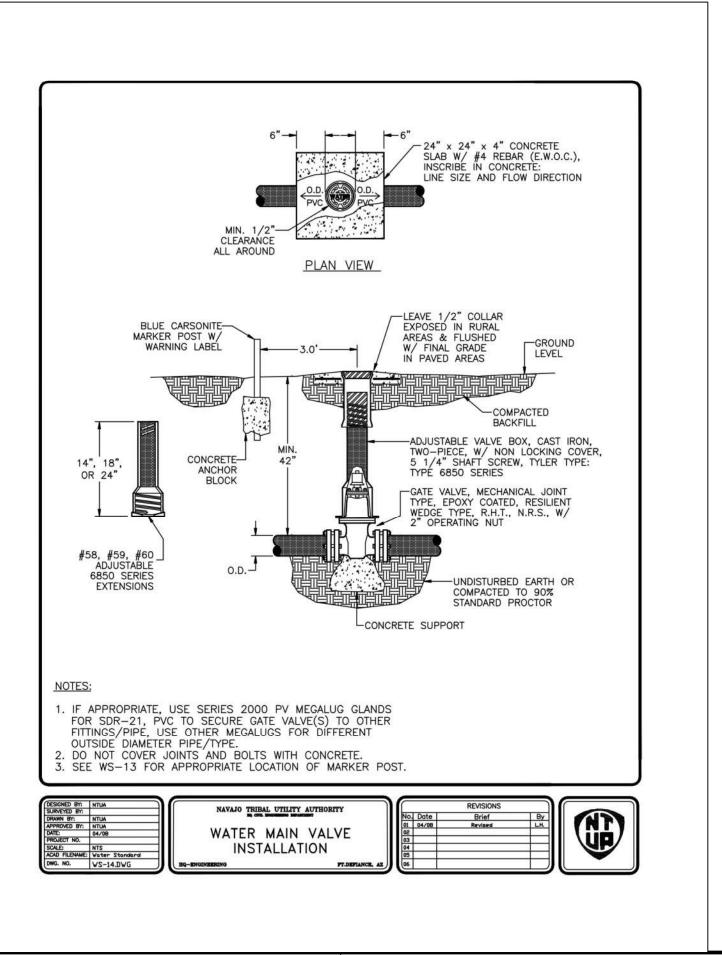


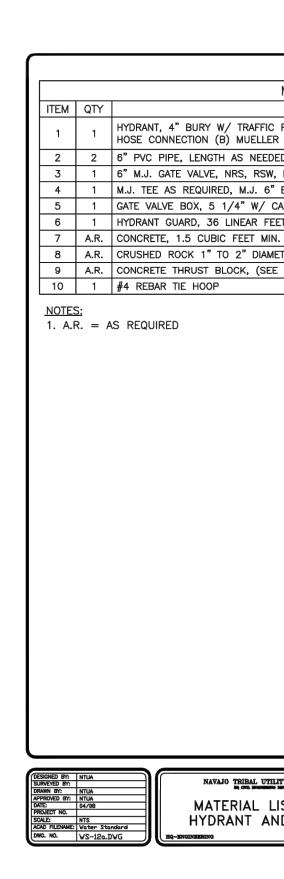


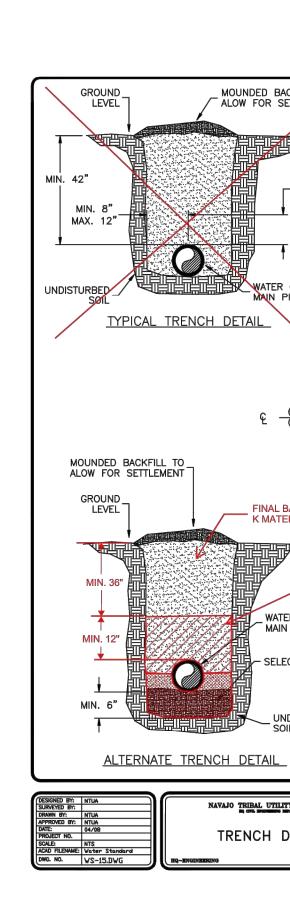








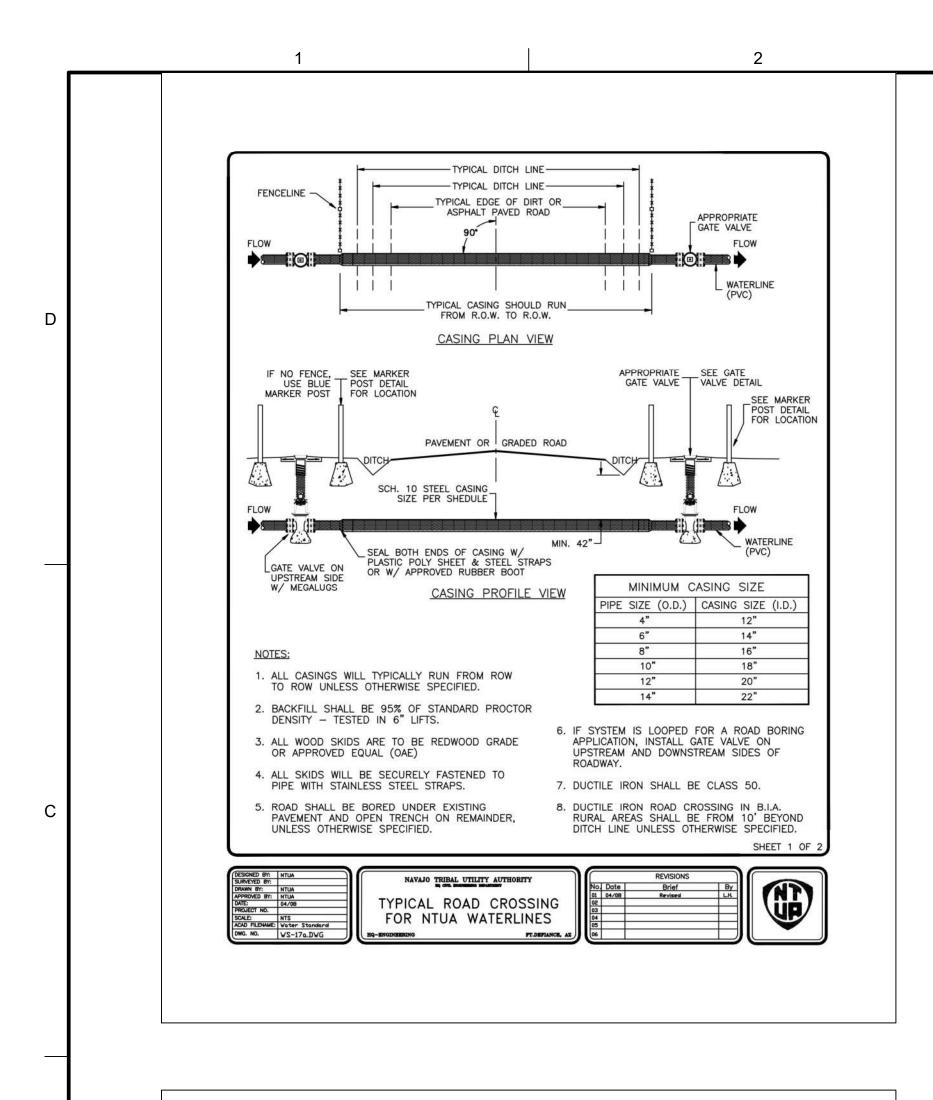


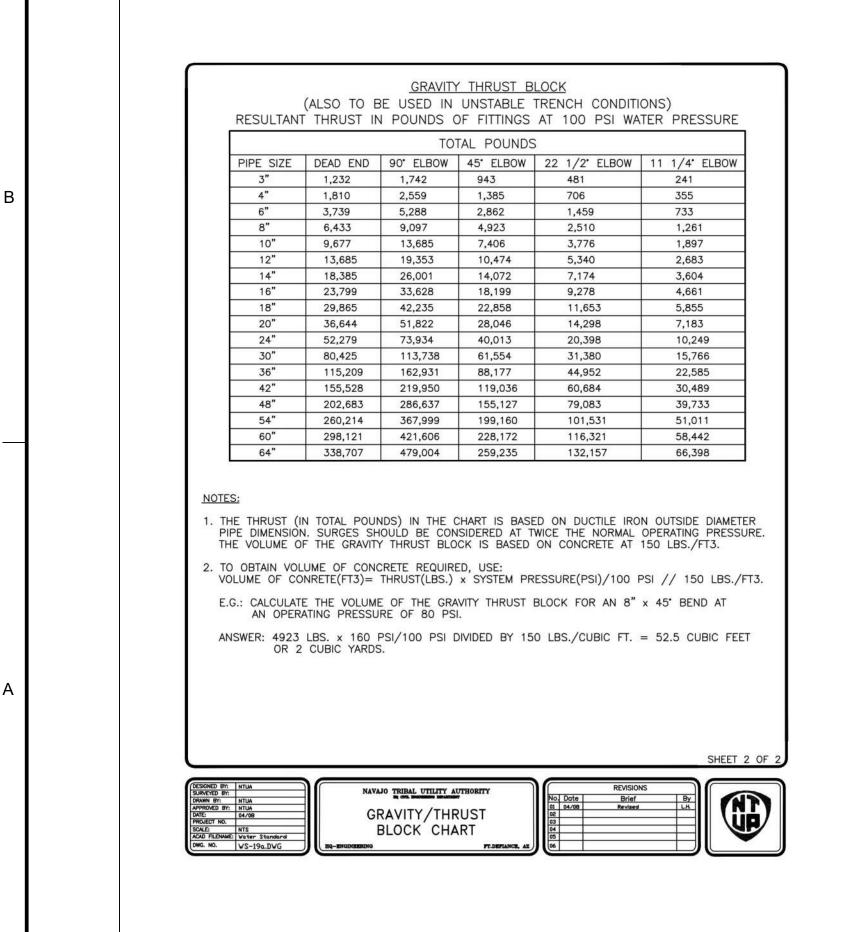


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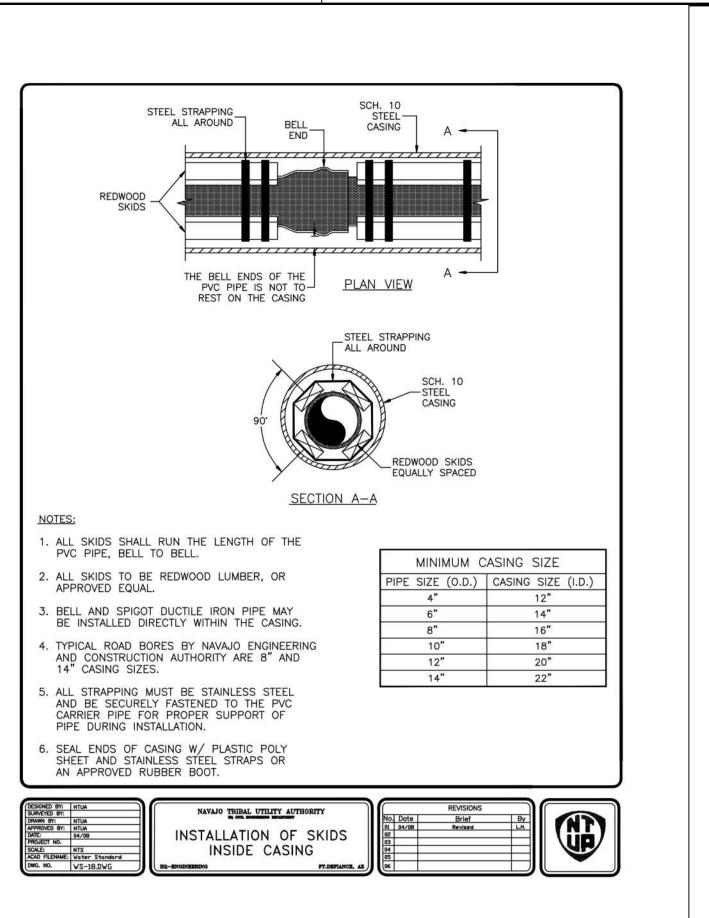
DESCRIPTION FIC FLANGE & 1 - LLER A423 OR KENI EEDED, 200 PSI, SE	N - 4 1/2" PUMPER CONNECTION (A) 2 - 2 1/2" NEDY K81A W/ 5 1/4" VALVE M.J. DR-21	
/ CAST IRON LID, I FEET 4" Ø BLACK	STEEL PIPE #0765	
	SHEET 2 OF 2	
LIST: FIRE	No. Date Brief By ORD	
D BACKFILL TO R SETTLEMENT	NOTES:	
	BOTTOM OF TRENCH TO 12" ABOVE PIPE CROWN.	
	(IF REQUIRED), BACK FILL MINIMUM COMPACTION 95% OPTIMUM DENSITY	
 	3. REPAVING AND REGRAVELING WILL BE	
	4. KEEP LOWER 5' OF TRENCH WALL	
	4. KEEP LOWER 5' OF TRENCH WALL VERTICAL IF POSSIBLE. UPPER PART OF THE TRENCH WILL VARY IN WIDTH TO COMPENSATE FOR UNSTABLE SOIL. APPLICABLE O.S.H.A. REQUIREMENTS	
NTER OR SEWER	4. KEEP LOWER 5' OF TRENCH WALL VERTICAL IF POSSIBLE. UPPER PART OF THE TRENCH WILL VARY IN WIDTH TO COMPENSATE FOR UNSTABLE SOIL. APPLICABLE O.S.H.A. REQUIREMENTS	
IN PIPE	4. KEEP LOWER 5' OF TRENCH WALL VERTICAL IF POSSIBLE. UPPER PART OF THE TRENCH WILL VARY IN WIDTH TO COMPENSATE FOR UNSTABLE SOIL. APPLICABLE O.S.H.A. REQUIREMENTS	
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	4. KEEP LOWER 5' OF TRENCH WALL VERTICAL IF POSSIBLE. UPPER PART OF THE TRENCH WILL VARY IN WIDTH TO COMPENSATE FOR UNSTABLE SOIL. APPLICABLE O.S.H.A. REQUIREMENTS SHALL BE MET. SHALL BE MET. ED SELECTED BACKFILL UNDISTURBED SOIL EC OR EXCAVATE FOR PIPE	
TAMPE	4. KEEP LOWER 5' OF TRENCH WALL VERTICAL IF POSSIBLE. UPPER PART OF THE TRENCH WILL VARY IN WIDTH TO COMPENSATE FOR UNSTABLE SOIL. APPLICABLE O.S.H.A. REQUIREMENTS SHALL BE MET. SHALL BE MET. ED ENDS	
TAMPE TAMPE BACKFILL - TYPE TATERIAL INITIA	4. KEEP LOWER 5' OF TRENCH WALL VERTICAL IF POSSIBLE. UPPER PART OF THE TRENCH WILL VARY IN WIDTH TO COMPENSATE FOR UNSTABLE SOIL. APPLICABLE O.S.H.A. REQUIREMENTS SHALL BE MET. SHALL BE MET. ED ENDS	
IN PIPE	 KEEP LOWER 5' OF TRENCH WALL VERTICAL IF POSSIBLE. UPPER PART OF THE TRENCH WILL VARY IN WIDTH TO COMPENSATE FOR UNSTABLE SOIL. APPLICABLE O.S.H.A. REQUIREMENTS SHALL BE MET. SELECTED BACKFILL PROFILE UNDISTURBED SOIL COR EXCAVATE FOR PIPE COUPLINGS OR BELL ENDS AL BACKFILL - TYPE A OR K MATERIAL, NOTE #1 	
AL BACKFILL - TYPE MATER OR SEWER MAIN PIPE	 KEEP LOWER 5' OF TRENCH WALL VERTICAL IF POSSIBLE. UPPER PART OF THE TRENCH WILL VARY IN WIDTH TO COMPENSATE FOR UNSTABLE SOIL. APPLICABLE O.S.H.A. REQUIREMENTS SHALL BE MET. SELECTED BACKFILL PROFILE UNDISTURBED SOIL COR EXCAVATE FOR PIPE COUPLINGS OR BELL ENDS AL BACKFILL - TYPE A OR K MATERIAL, NOTE #1 	
IN PIPE TAMPE TAMPE BACKFILL - TYPE INITIA WATER OR SEWER MAIN PIPE SELECT BACKFILL PI NO - UNDISTURBED SOIL	 KEEP LOWER 5' OF TRENCH WALL VERTICAL IF POSSIBLE. UPPER PART OF THE TRENCH WILL VARY IN WIDTH TO COMPENSATE FOR UNSTABLE SOIL. APPLICABLE O.S.H.A. REQUIREMENTS SHALL BE MET. SELECTED BACKFILL PROFILE UNDISTURBED SOIL COR EXCAVATE FOR PIPE COUPLINGS OR BELL ENDS AL BACKFILL - TYPE A OR K MATERIAL, NOTE #1 	
IN PIPE	4. KEEP LOWER 5' OF TRENCH WALL VERTICAL IF POSSIBLE. UPPER PART OF THE TRENCH WILL VARY IN WIDTH TO COMPENSATE FOR UNSTABLE SOIL. APPLICABLE O.S.H.A. REQUIREMENTS SHALL BE MET. SHALL BE MET. SHALL BE MET. SHALL BE MET. SHALL BE MET. SHALL BE MET. SHALL BE MET. SHALL BE MET. SHALL BE MET. SHALL BE MET. SHALL BE MET. SHALL BE MET. SHALL BE MET. SELECTED BACKFILL PROFILE UNDISTURBED SOIL SOIL COR EXCAVATE FOR PIPE COUPLINGS OR BELL ENDS AL BACKFILL - TYPE A OR K MATERIAL, NOTE #1 PELINE EMBEDMENT ZONE -TYPE A OR K MATERIAL, NOTE #1 PLINE EMBEDMENT ZONE -TYPE A OR K MATERIAL, NOTE #1	

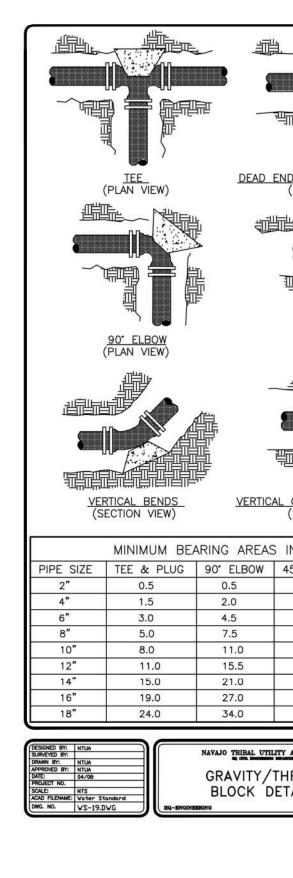






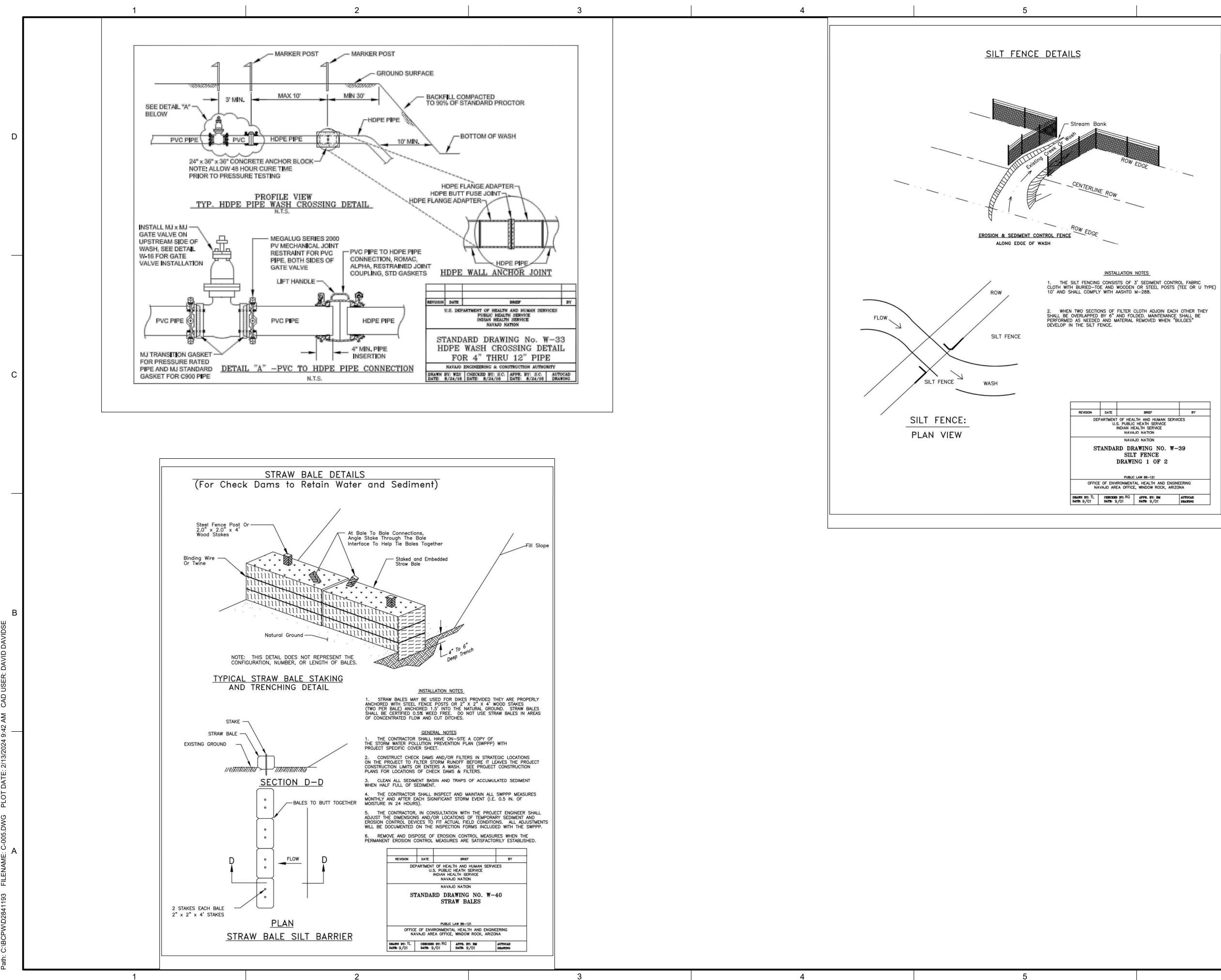
CPW/D2841193 FILENAME: C-004.DWG PLOT DATE: 2/13/2024 9:42 AM CAD USER: DAVID DAVIDSE



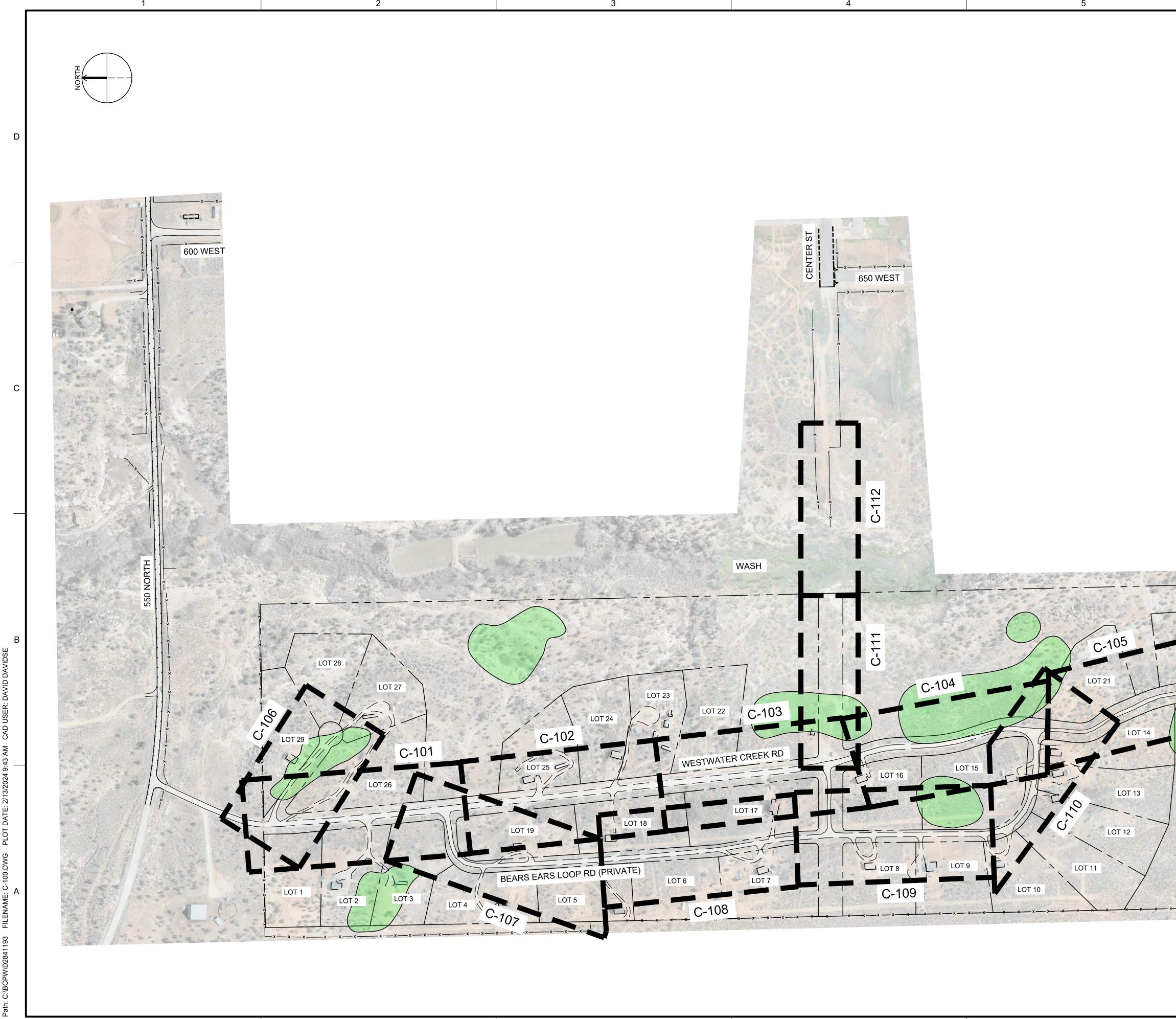


IND CAPPED OR PLUG (PLAN VIEW)		
	E.	UE CROSS (PLAN VIEW)
45' ELBOW (PLAN VIEW)		
L GRAVITY THRUST BLOCK (SECTION VIEW)	(5	BEARING AREA SECTION VIEW) IOTES:
IN SQUARE FEET	1	. DO NOT COVER
45' OR 22 1/2' ELBOW	CROSS	GASKETED JOINTS AND NUTS/BOLTS.
0.5	0.5	
1.5	1.0	
2.5	2.0	
6.5	5.5	
9.0	8.0	
12.0	10.5	
15.5	13.5	
19.0	17.0	SHEET 1 OF 2
TY AUTHORITY	REVISIONS Brief	
HRUST	Revised	
ETAILS		
FT.DEFIANCE, AZ		

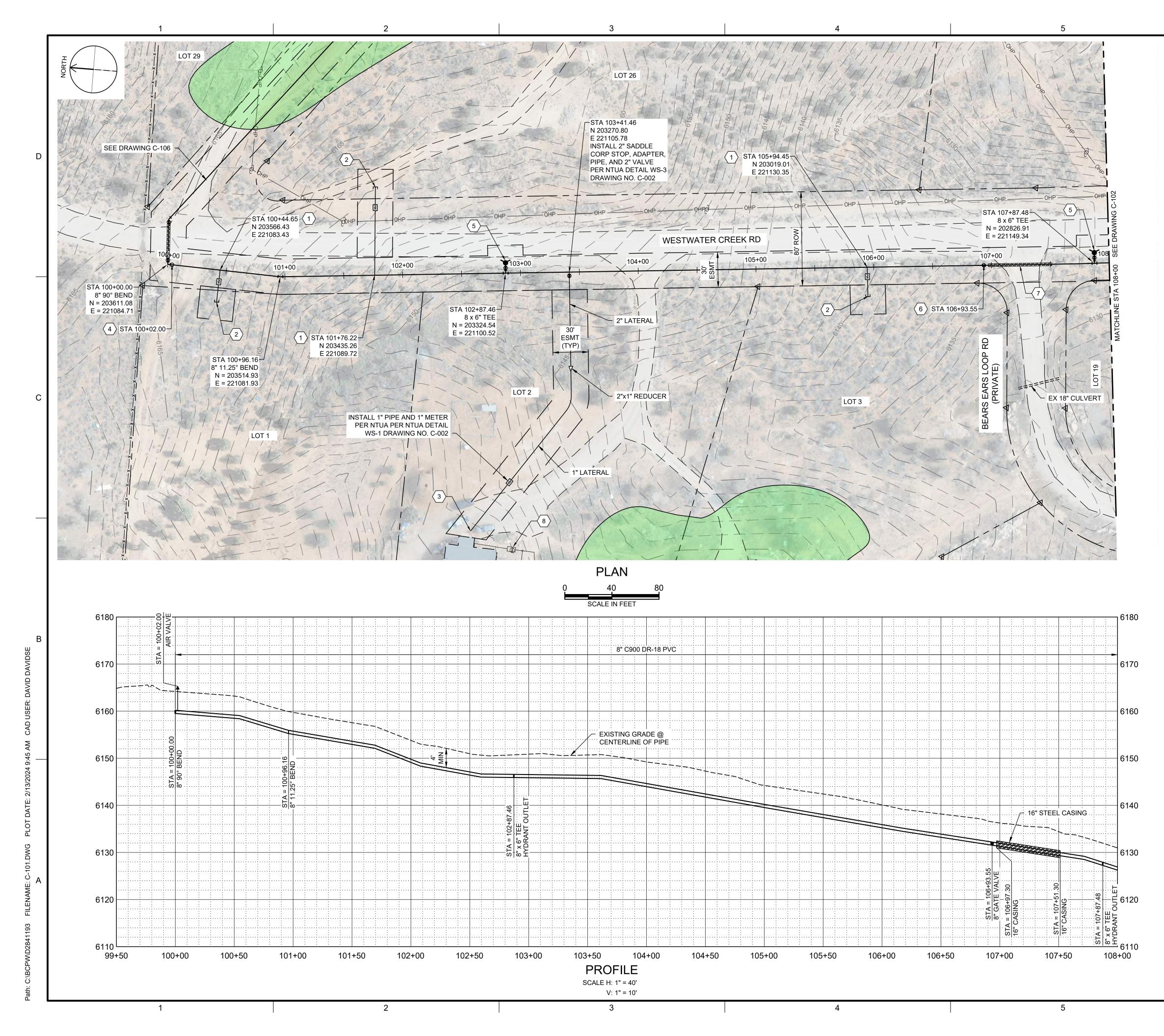




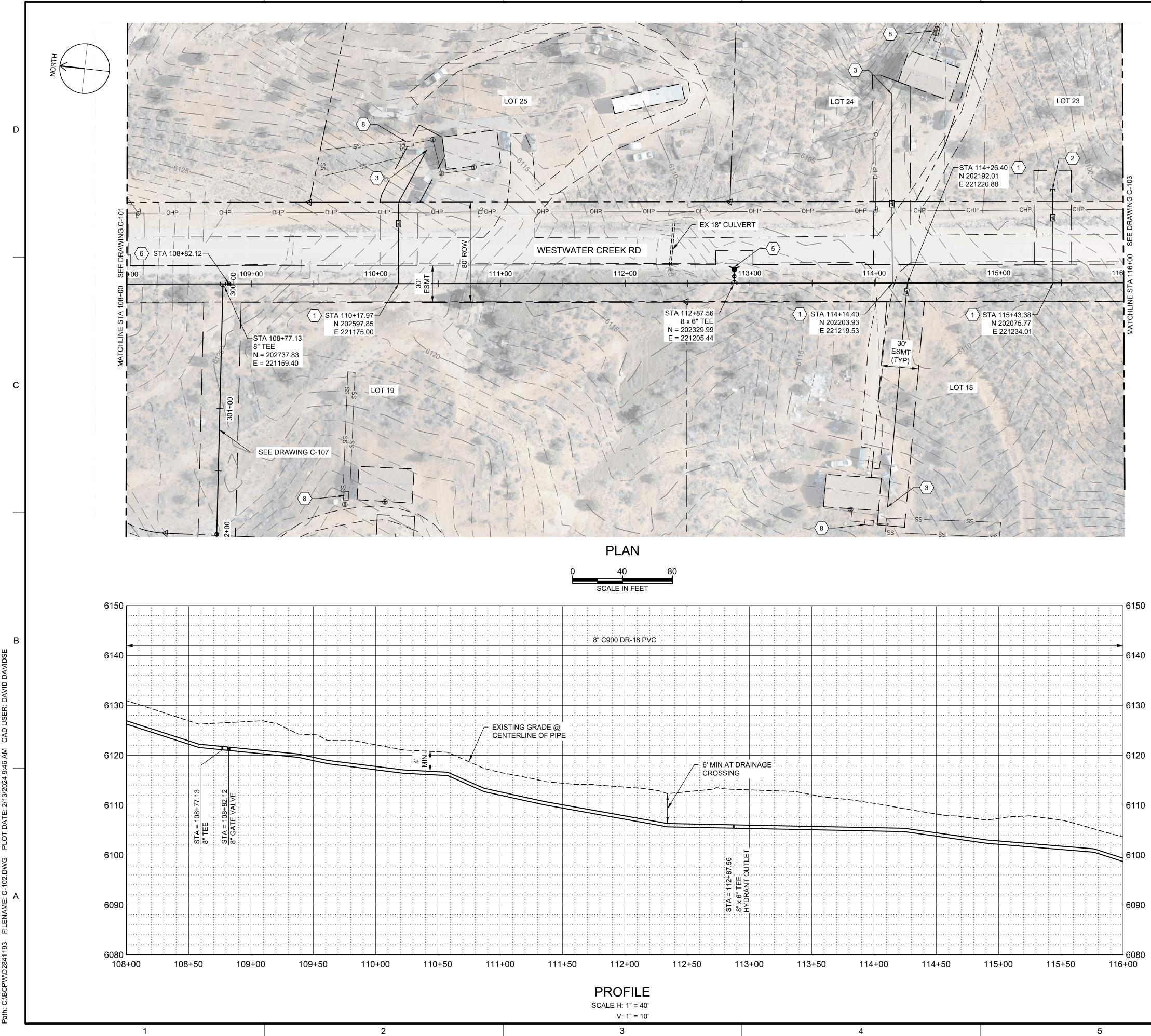




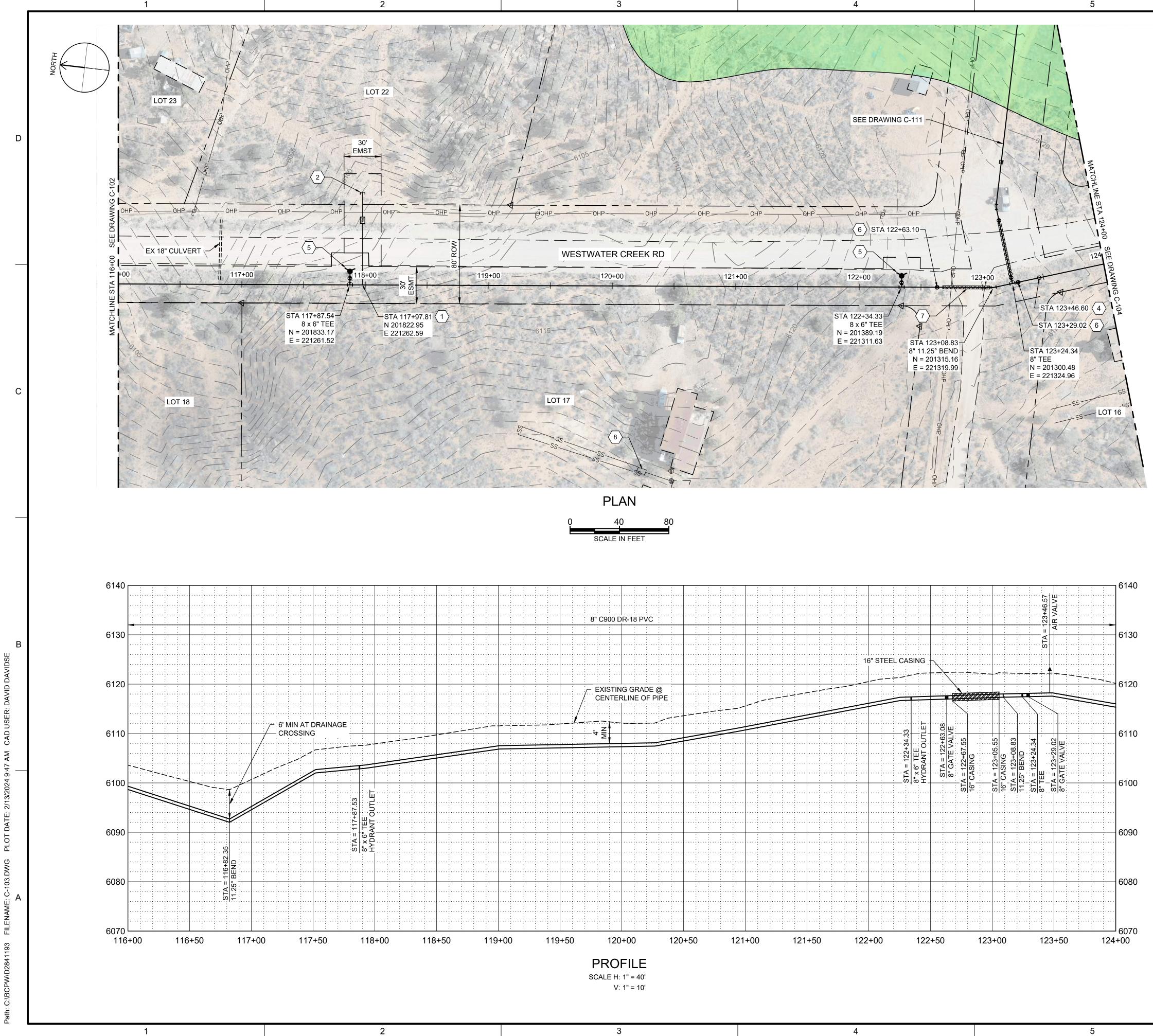
		<section-header></section-header>	D
			С
OT 20		WESTWATER WATER SYSTEM DESIGNED: C. WILLMORE REVISIONS REVISIONS REV DATE DESCRIPTION DESCRIPTION LINE IS 2 INCHES AT FULL SIZE	В
		CHECKED: CHECKED: APPROVED: S. BRENCHLEY FILENAME C-100.DWG BC PROJECT NUMBER 158815 CLIENT PROJECT NUMBER CIVIL	A
	0 200 400 SCALE IN FEET	DRAWING NUMBER C-100 10 SHEET NUMBER 22	



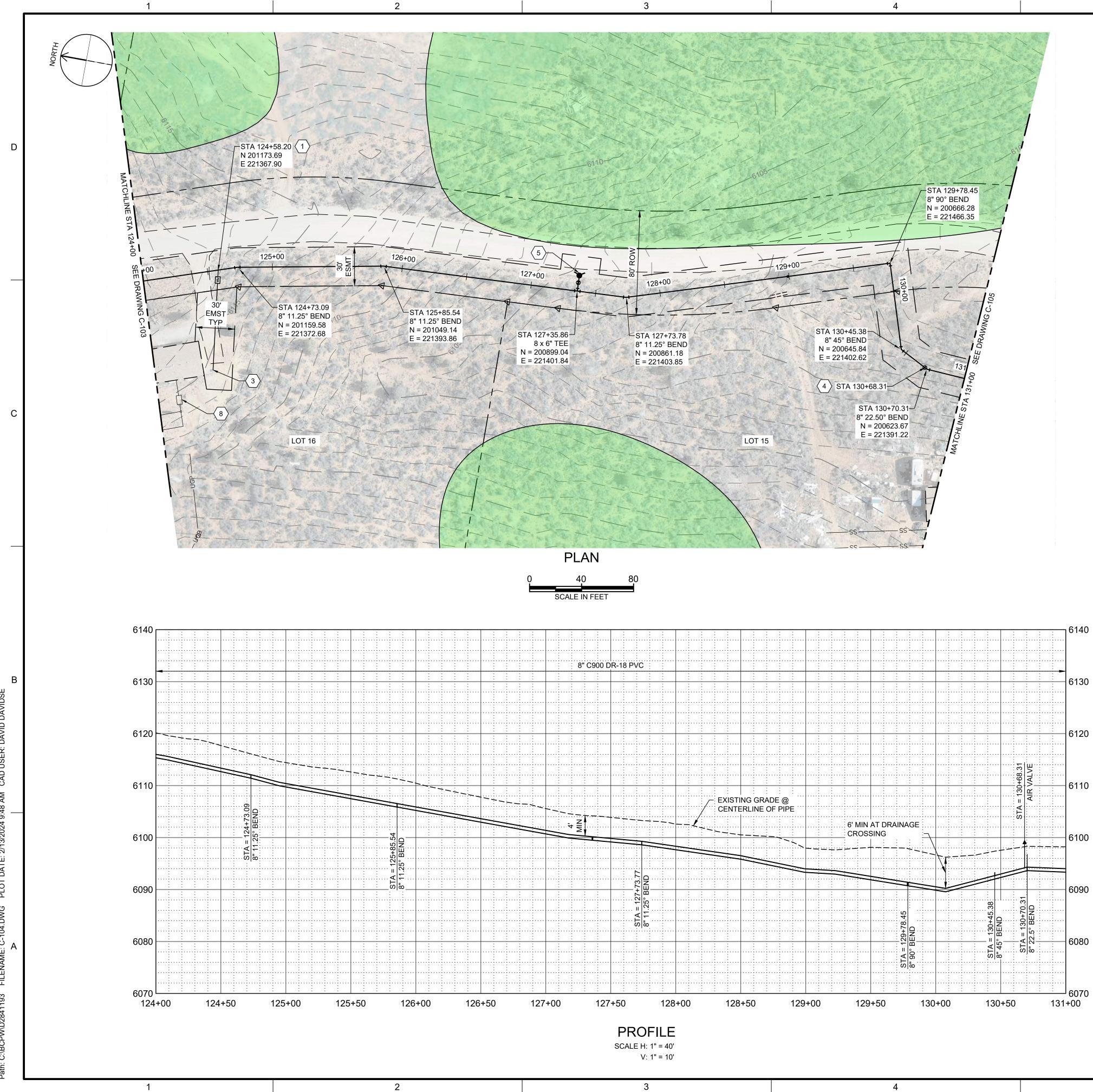
	6				_
GE	ENERAL NOTES				
1.	ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE, CONTRACTOR TO FIELD VERIFY AND POTHOLE AS REQUIRED TO COMPLETE THE WORK.			aldwell	
2.	CONTRACTOR TO FIELD VERIFY PHYSICAL LOCATION, ELEVATIONS AND INVERTS. ELEVATIONS ARE BASED ON NAVD 88 EXPRESS IN INTERNATIONAL FEET.		CALT		
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.	SALT LAKE CITY, UTAH			
4.	CONTRACTOR TO INSTALL PIPE IN TRENCH PER NTUA STD DWG WS-15 DRAWING C-003.			PROFESSION	
5.	DEFLECT PIPE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS NECESSARY.		LICENS	CORVEN WILLMORE No. 5254688	
6.	ALL PIPING TO HAVE MJ X MJ FITTINGS UNLESS NOTED OR OTHERWISE SHOWN IN DETAILS.			STATE OF UTAT	
7.	THE SEPTIC TANKS AND ASSOCIATED DRAIN FIELDS SHOWN ON THE DRAWINGS ARE NOT AS-BUILT LOCATIONS. THESE LOCATIONS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION FOR EACH LOT. MOST SEPTIC TANKS ON SITE ARE BURIED AND NOT ABLE TO BE LOCATED BY SURVEY. LOCATION OF SEPTIC FIELDS AND SEPTIC TANKS ARE BASED ON PDF DRAWINGS FROM THE SOUTHEASTERN UTAH DISTRICT HEALTH DEPARTMENT, NAIHS PDF DRAWINGS, FIELD SITE VISITS, AND INFORMATION PROVIDED BY EACH HOME OWNER.				
\bigcirc	KEY NOTES				
1.	INSTALL WATER LATERAL PER DETAIL WS-1 DRAWING NO. C-002 WITH PRV.	1	CON	NSTRUCTION	с
2.	PLUG AND STUB WATER LATERAL FOR FUTURE CONNECTION.			TRIBAL UTILITY AUTHOR	
3.	DETACH EXISTING PIPE FROM EXISTING CISTERN. REMOVE AND PROPERLY DISPOSE OF EXISTING CISTERN. CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE AND INSTALL FILL MATERIAL FOR REMOVED CISTERN, COMPACT TO 95% COMPACTION REQUIREMENT.	NAVAJO TRIBAL UTILITY AUTHORITY			
4.	INSTALL CAV VALVE PER DETAIL WS-10 DRAWING NO. C-003.			TRA IN MENTER	
5.	INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.				
6.	INSTALL 8" GATE VALVE PER DETAIL WS-14 DRAWING NO. C-003.			ESTWATER	
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. CONTRACTOR TO PROVIDE AN ENCROACHMENT PERMIT AND TRAFFIC CONTROL PLAN TO SAN JUAN COUNTY.		VVA	FER SYSTEM DESIGN	
8.	APPROXIMATE LOCATION OF SEPTIC SYSTEM.	REV	DATE	REVISIONS DESCRIPTION	
LE	GEND				В
	ARCHEOLOGICAL SITE				
				LINE IS 2 INCHES	
		DESI DRAV		C. WILLMORE D. DAVIDSE	
			CKED:		
				S. BRENCHLEY FILENAME	
			BC	C-101.dwg PROJECT NUMBER	
			CLIEI	158815 NT PROJECT NUMBER	
				CIVIL	
					A
				AND PROFILE	
		S	ГА 1	00+00 TO STA	
	Know what's below. Call 🕮 before you dig.			108+00	
	BLUE STAKES OF UTAH		D		1
	UTILITY NOTIFICATION CENTER, INC. www.bluestakes.org 1-800-662-4111		1	C-101 SHEET NUMBER 22	
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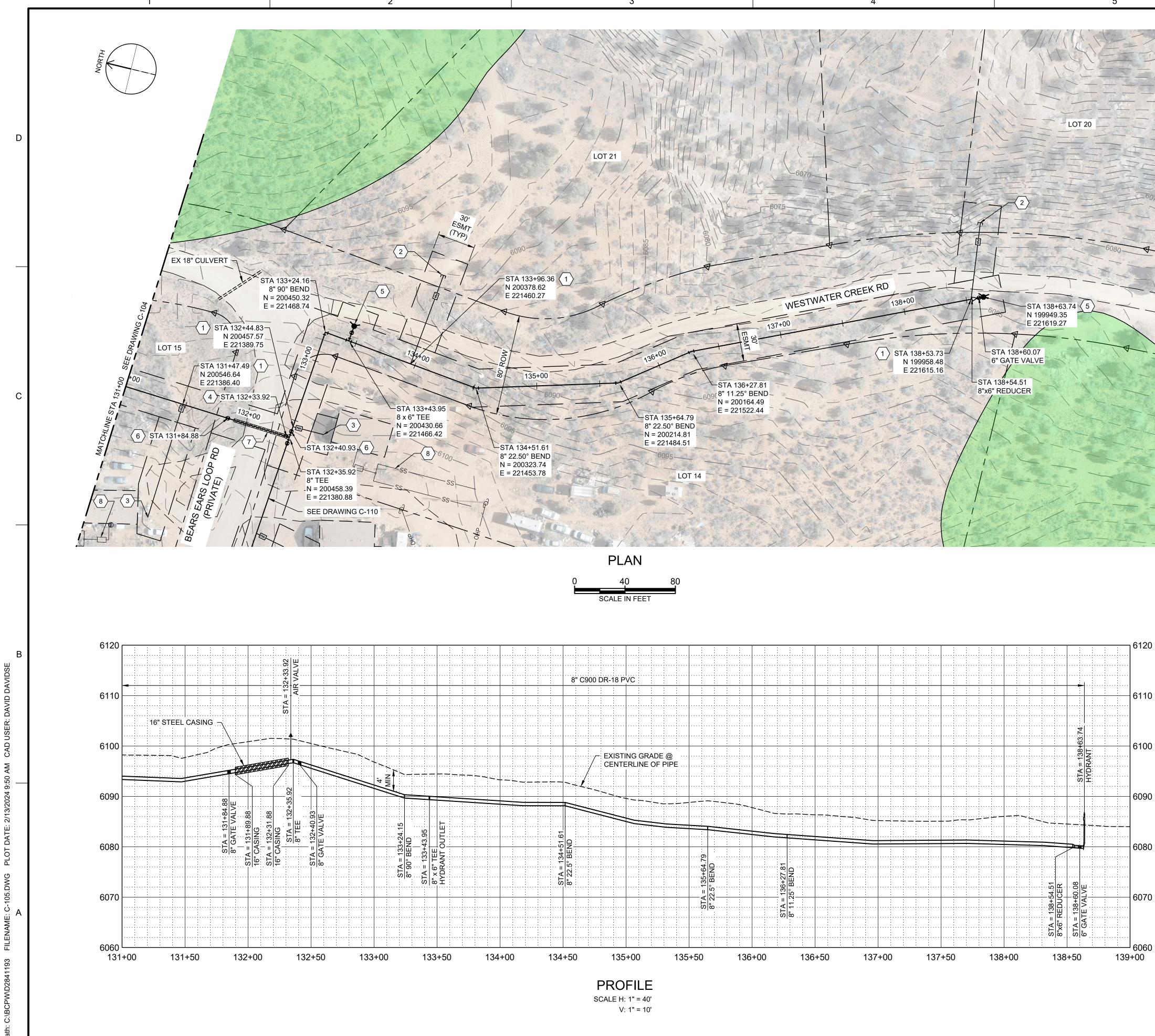
	6				_
GENERAL	. NOTES				
CONTRACTO	ONS OF UTILITIES SHOWN ARE APPROXIMATE, DR TO FIELD VERIFY AND POTHOLE AS TO COMPLETE THE WORK.			aldwell	
ELEVATIONS	OR TO FIELD VERIFY PHYSICAL LOCATION, S AND INVERTS. ELEVATIONS ARE BASED ON PRESS IN INTERNATIONAL FEET.				
ELBOWS, TE DRAWING NO BE UTILIZED MEGALUG S	OR TO PROVIDE THRUST BLOCKS AT ALL ES, CROSSES PER NTUA STD DWG WS-19 O. C-004. MECHANICAL JOINT RESTRAINTS CAN IN PLACE OF THRUST BLOCKS. EBA IRON ERIES 2000 PV FOR FITTINGS AND SERIES 2500 DINTS - INSTALL PER MANUFACTURE'S DATIONS.		SALT		D
	OR TO INSTALL PIPE IN TRENCH PER NTUA STD DRAWING C-003.		1	PROFESSION	
5. DEFLECT PI	PE IN ACCORDANCE WITH THE IRER'S RECOMMENDATIONS AS NECESSARY.		LICENS	CORWIN WILLMORE No. 5254688	
	TO HAVE MJ X MJ FITTINGS UNLESS NOTED OR SHOWN IN DETAILS.			STATE OF UTA	
ON THE DRA LOCATIONS INFORMATIC SITE ARE BU SURVEY. LO ARE BASED UTAH DISTR DRAWINGS,	ANKS AND ASSOCIATED DRAIN FIELDS SHOWN WINGS ARE NOT AS-BUILT LOCATIONS. THESE ARE SHOWN BASED ON THE BEST AVAILABLE ON FOR EACH LOT. MOST SEPTIC TANKS ON IRIED AND NOT ABLE TO BE LOCATED BY CATION OF SEPTIC FIELDS AND SEPTIC TANKS ON PDF DRAWINGS FROM THE SOUTHEASTERN ICT HEALTH DEPARTMENT, NAIHS PDF FIELD SITE VISITS, AND INFORMATION BY EACH HOME OWNER.				
	DTES				
1. INSTALL WA C-002 WITH I	TER LATERAL PER DETAIL WS-1 DRAWING NO. PRV.		CO	NSTRUCTION ISSUE	С
2. PLUG AND S CONNECTIO	TUB WATER LATERAL FOR FUTURE N.				1
REMOVE AN CONNECT N INSTALL FILI	STING PIPE FROM EXISTING CISTERN. D PROPERLY DISPOSE OF EXISTING CISTERN. EW LATERAL TO EXISTING PIPE. PROVIDE AND MATERIAL FOR REMOVED CISTERN, O 95% COMPACTION REQUIREMENT.		NANAJO TRIBAL UTILITY AUTHORITY		
5. INSTALL FIR DRAWING N	E HYDRANT AND 6" VALVE PER WS-12 O. C-003.			TER AND AND A	
6. INSTALL 8" G C-003.	GATE VALVE PER DETAIL WS-14 DRAWING NO.				
8. APPROXIMA	TE LOCATION OF SEPTIC SYSTEM.			ESTWATER	
LEGEND			VVA	FER SYSTEM DESIGN	
	ARCHEOLOGICAL SITE				
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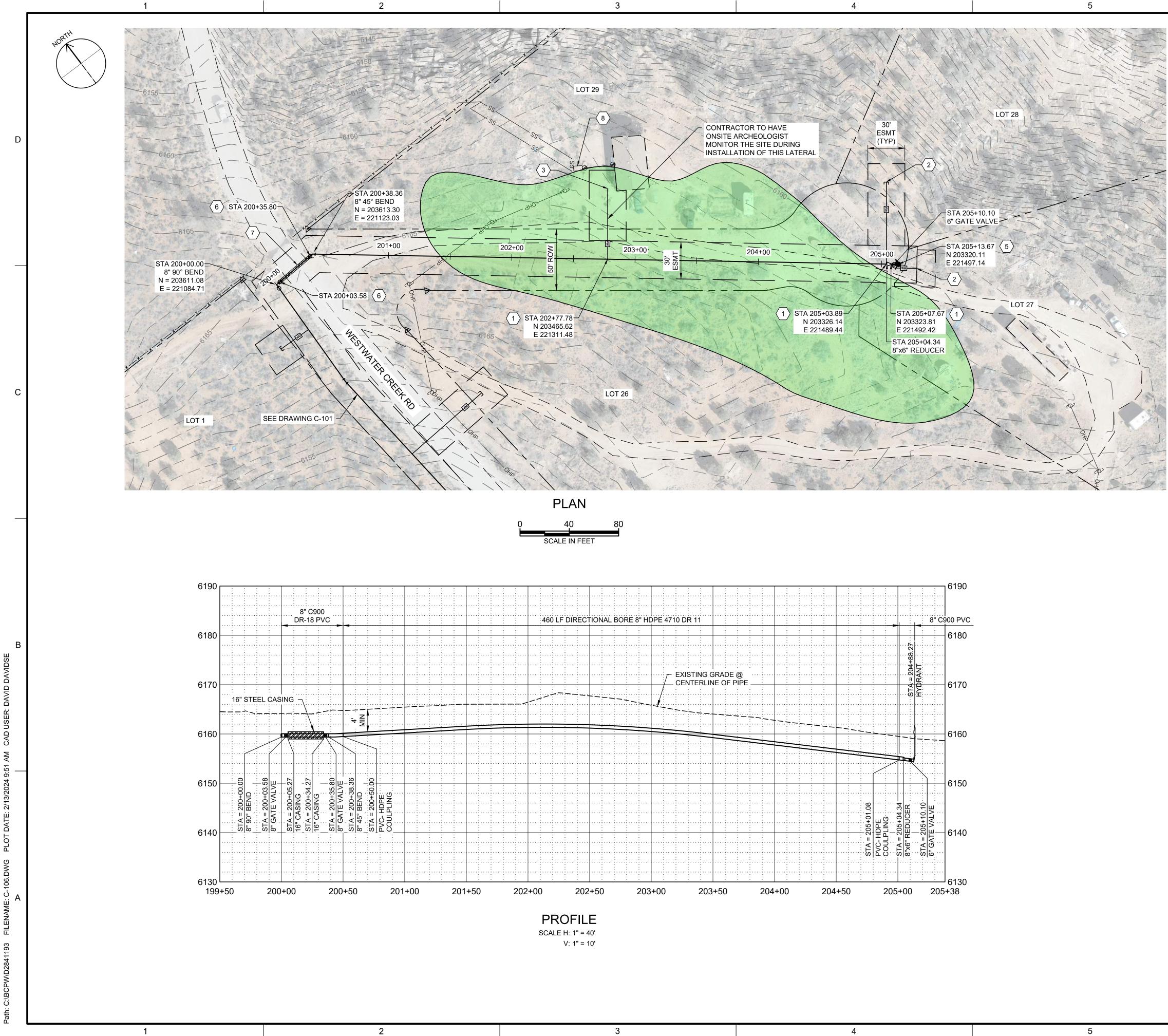
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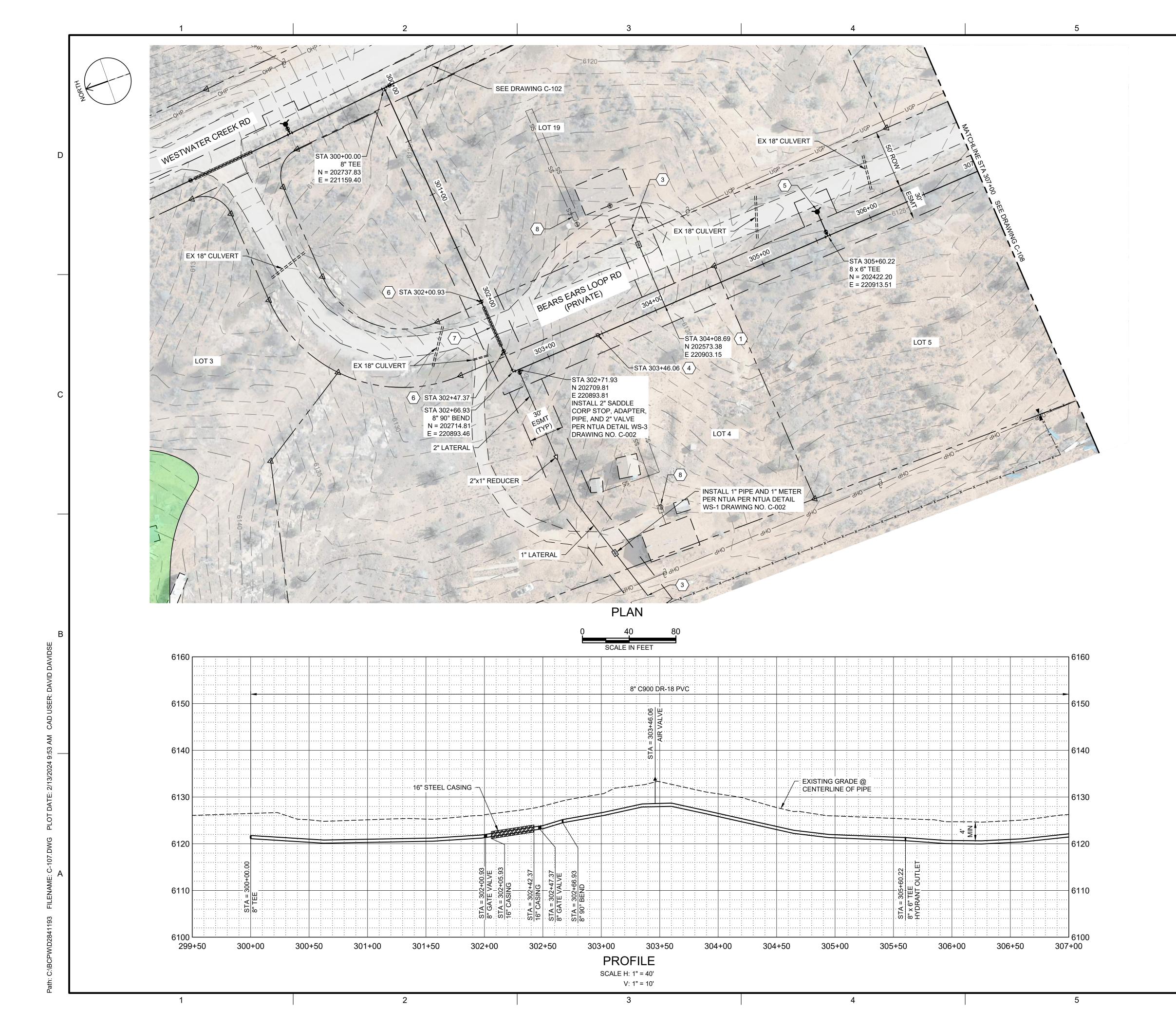
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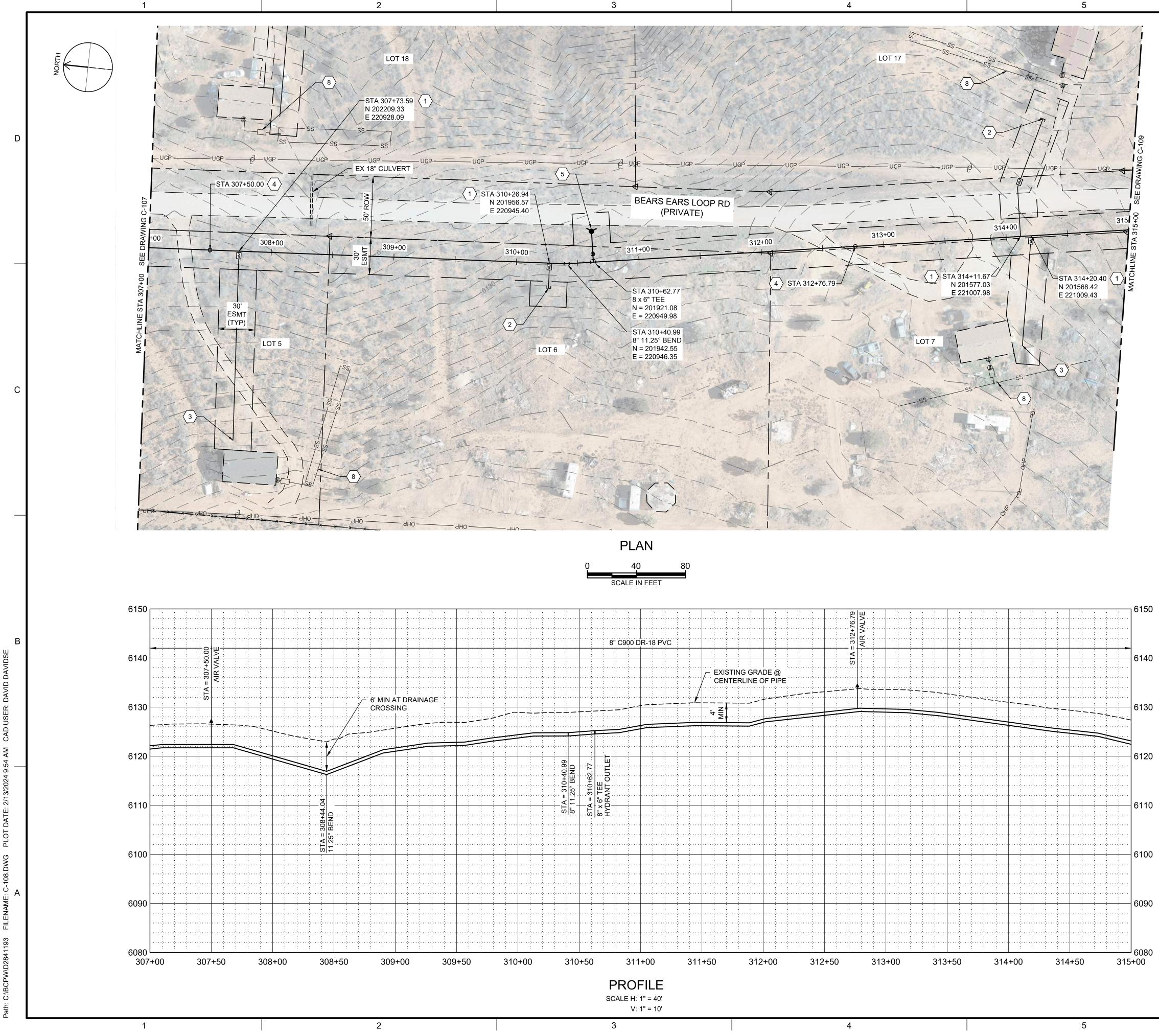
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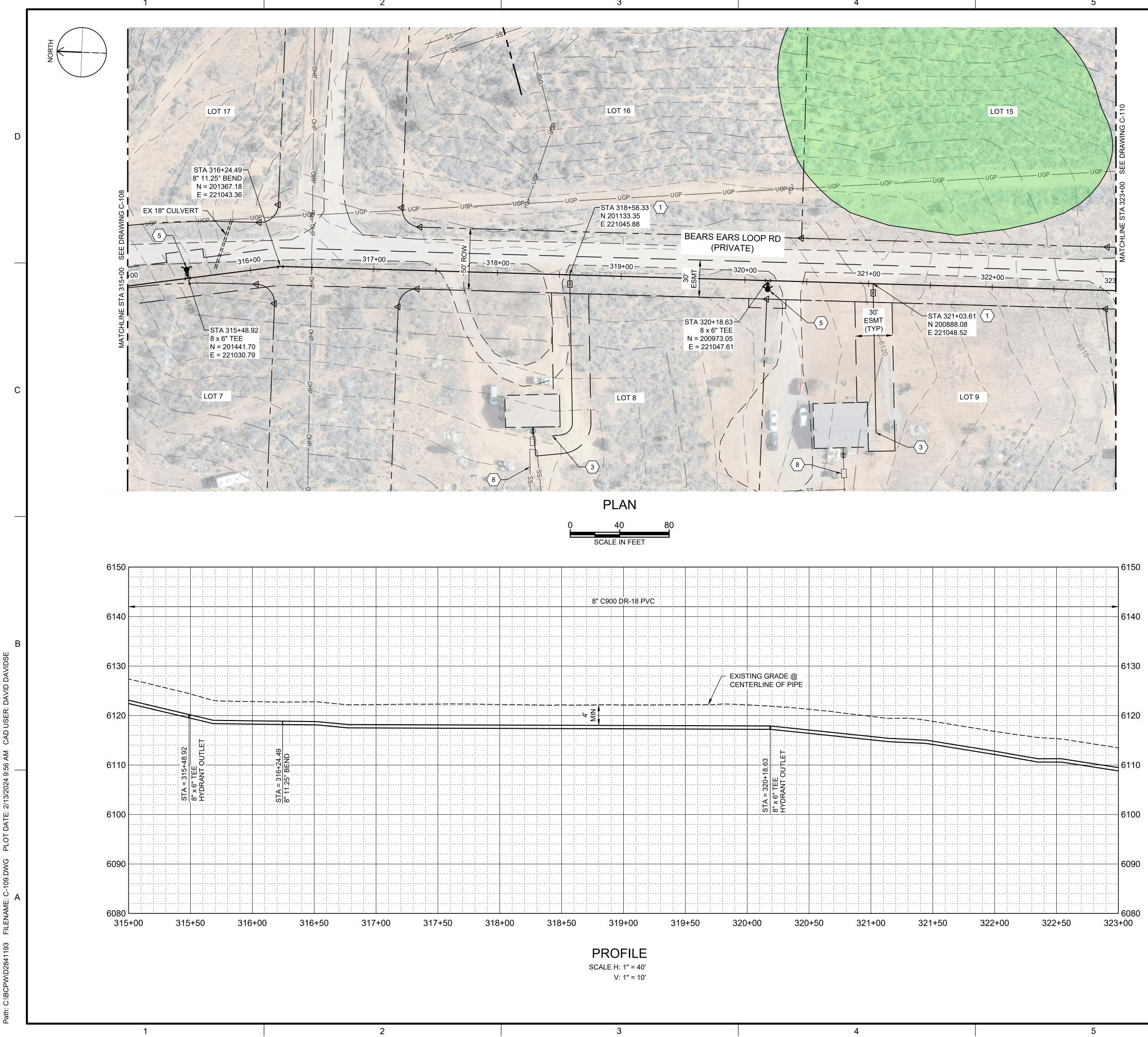
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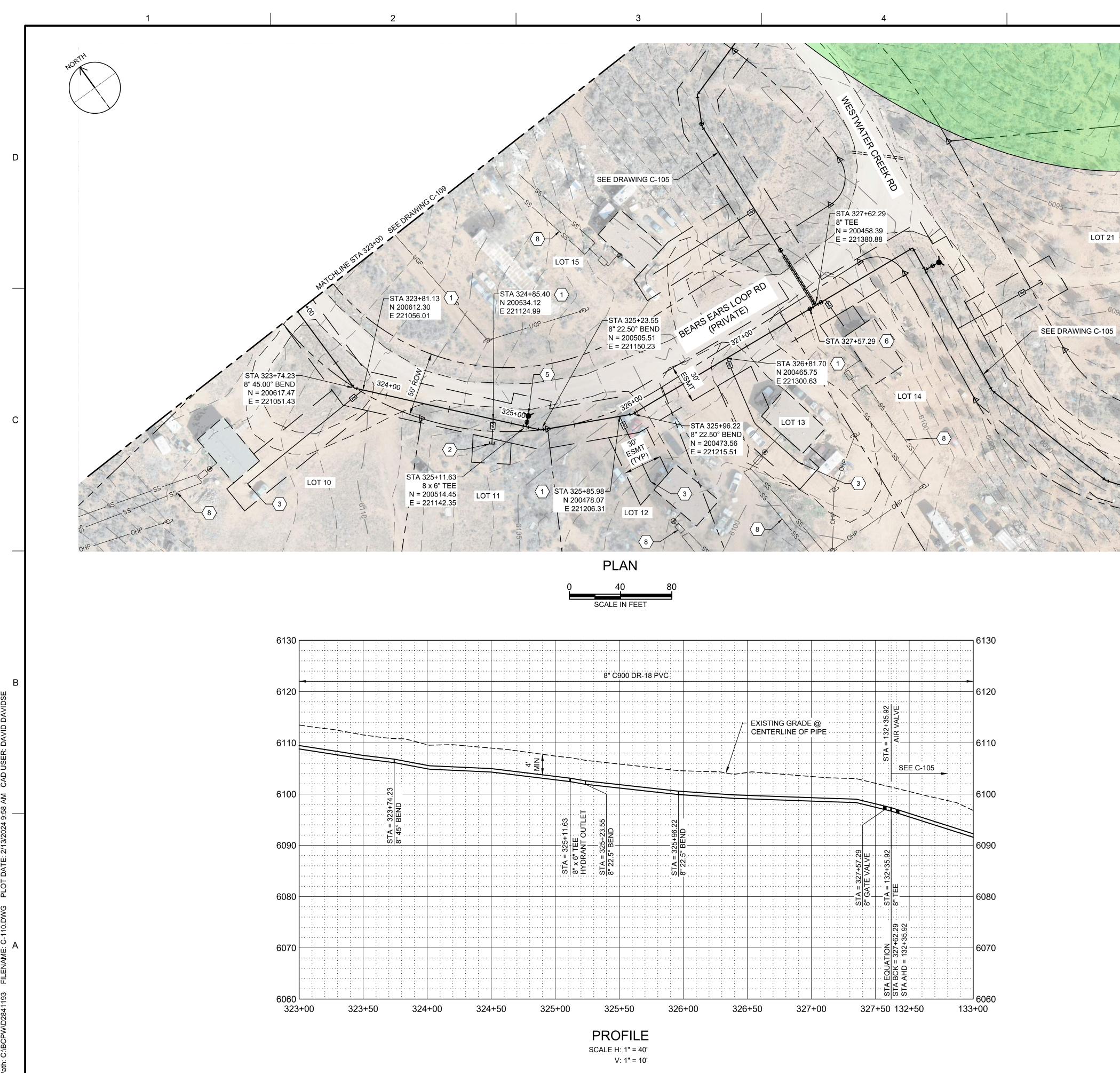
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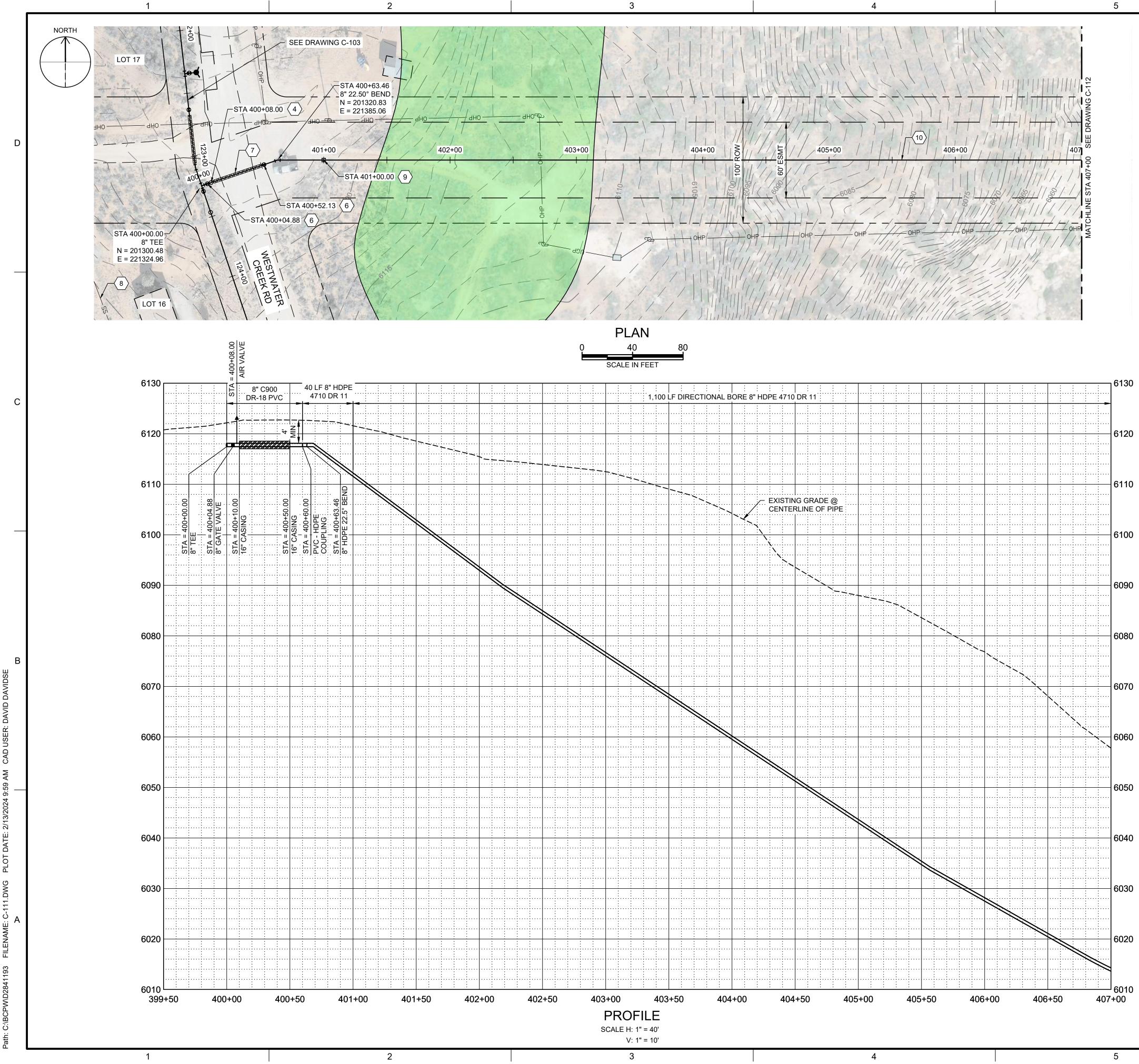
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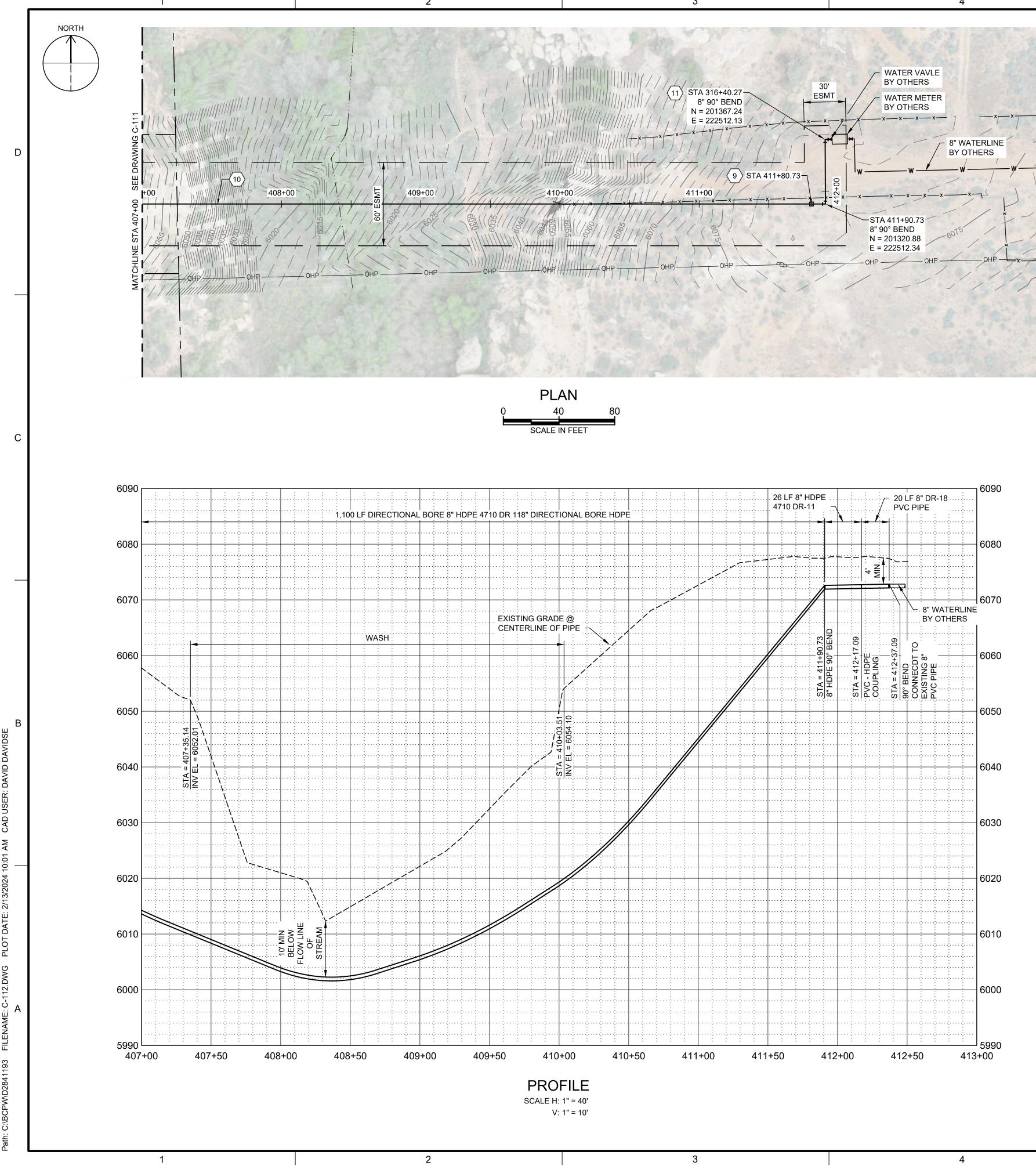


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6. ALL PIPING TO HAVE MJ X MJ FITTINGS UNLESS NOTED OR OTHERWISE SHOWN IN DETAILS.	The OF UTAN	
7. THE SEPTIC TANKS AND ASSOCIATED DRAIN FIELDS SHOWN ON THE DRAWINGS ARE NOT AS-BUILT LOCATIONS. THESE LOCATIONS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION FOR EACH LOT. MOST SEPTIC TANKS ON SITE ARE BURIED AND NOT ABLE TO BE LOCATED BY SURVEY. LOCATION OF SEPTIC FIELDS AND SEPTIC TANKS ARE BASED ON PDF DRAWINGS FROM THE SOUTHEASTERN UTAH DISTRICT HEALTH DEPARTMENT, NAIHS PDF DRAWINGS, FIELD SITE VISITS, AND INFORMATION PROVIDED BY EACH HOME OWNER.		
1. INSTALL WATER LATERAL PER DETAIL WS-1 DRAWING NO. C-002 WITH PRV.	CONSTRUCTION ISSUE	С
2. PLUG AND STUB WATER LATERAL FOR FUTURE CONNECTION.	NAVAJO TRIBAL UTILITY AUTHORITY	
3. DETACH EXISTING PIPE FROM EXISTING CISTERN. REMOVE AND PROPERLY DISPOSE OF EXISTING CISTERN. CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE AND INSTALL FILL MATERIAL FOR REMOVED CISTERN, COMPACT TO 95% COMPACTION REQUIREMENT.	NAME OF THE OWNER OWNER OF THE OWNER OWNE	
5. INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.	TER IN MULLO	
 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. CONTRACTOR TO PROVIDE AN ENCROACHMENT PERMIT AND TRAFFIC CONTROL PLAN TO SAN JUAN COUNTY.	WESTWATER WATER SYSTEM DESIGN	
8. APPROXIMATE LOCATION OF SEPTIC SYSTEM.		
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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
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.	SALT LAKE CITY, UTAH
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○ KEY NOTES	
 4. INSTALL CAV VALVE PER DETAIL WS-10 DRAWING NO. C-003. 	CONSTRUCTION ISSUE
 INSTALL 8" GATE VALVE PER DETAIL WS-14 DRAWING NO. C-003. 	NAVAJO TRIBAL UTILITY AUTHORITY
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. CONTRACTOR TO PROVIDE AN ENCROACHMENT PERMIT AND TRAFFIC CONTROL PLAN TO SAN JUAN COUNTY.	NAVAJU NORITY
8. APPROXIMATE LOCATION OF SEPTIC SYSTEM.	P THE NEWY
9. INSTALL CONCRETE ANCHOR BLOCK PER DETAIL W-33 DRAWING NO. C-005.	~
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