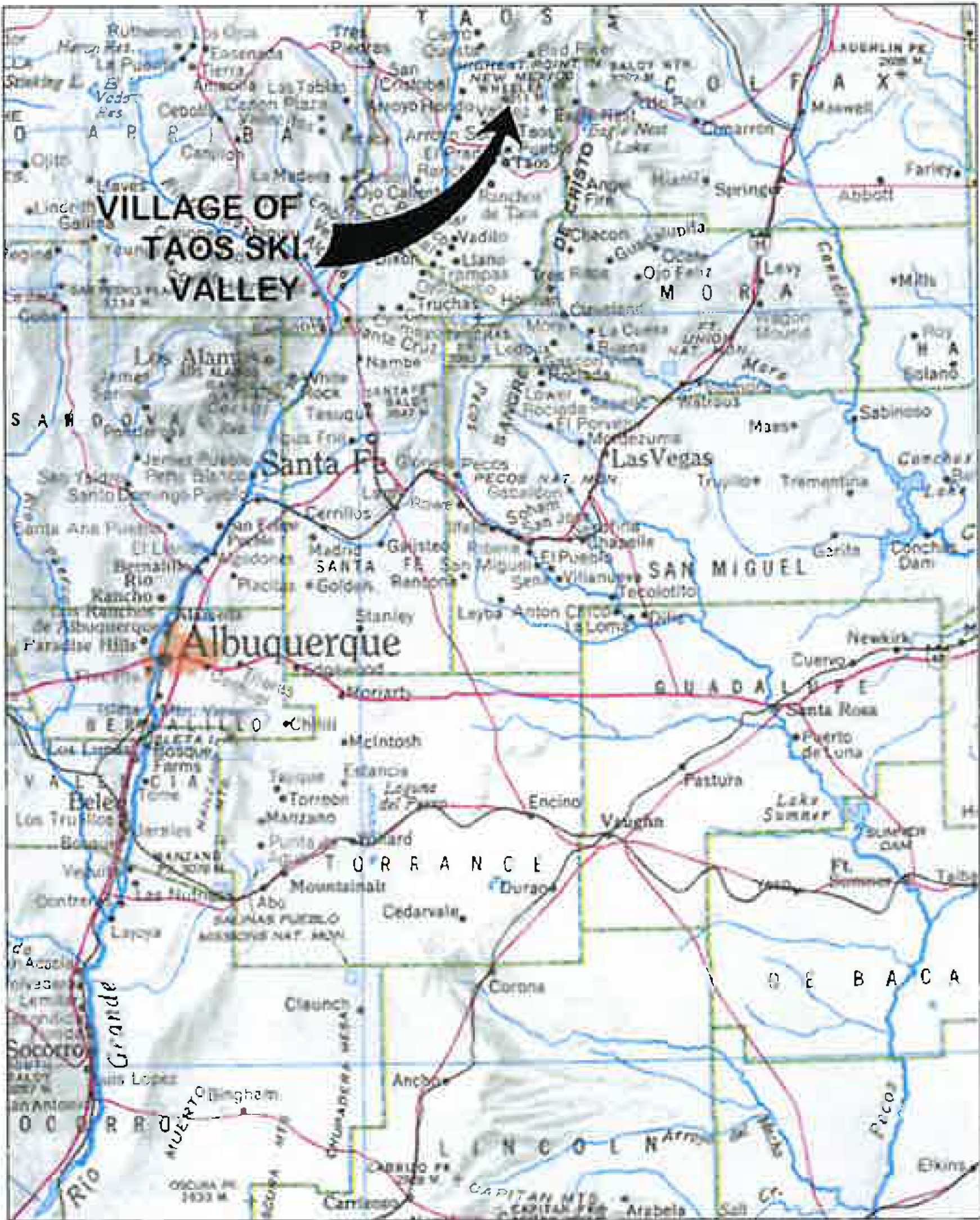


VILLAGE OF TAOS SKI VALLEY  
PHOENIX SWITCHBACK  
WATERLINE REPLACEMENT  
CONSTRUCTION DRAWINGS REBID  
CAPITAL APPROPRIATION SAP 23-H2504-GF

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UTILITY DETAILS	CU502
TOTAL NUMBER OF SHEETS	15



THE VILLAGE OF  
Taos Ski Valley

VILLAGE OF TAOS SKI VALLEY:  
APPROVED FOR CONSTRUCTION

DATE: 2-7-24

ENGINEER'S CERTIFICATE

I CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM LICENSED AS A PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO.

Gary H. Bierner, P.E.  
GARY H. BIERNER, P.E. #26787

NOTICE OF EXTENDED PAYMENT PROVISION -  
THIS CONTRACT ALLOWS THE OWNER TO MAKE  
PAYMENT WITHIN 45 DAYS AFTER SUBMISSION

DESIGN: DEC	PROJECT VILLAGE OF TAOS SKI VALLEY PHOENIX SWITCHBACK WATERLINE REPLACEMENT
DRAWN: JIK	
CHECKED: TJM, GHB	
DATE: 8-9-2023	
REV:	
REV:	D&C DENNIS ENGINEERING COMPANY
REV:	
TITLE COVER SHEET	
(SEAL) GARY H. BIERNER, P.E. #26787 PROFESSIONAL ENGINEER	
SHEET GI001	



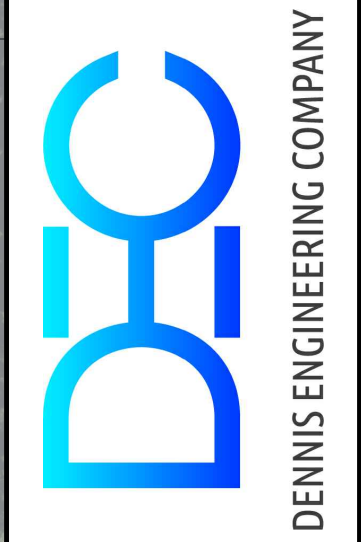


VICINITY MAP

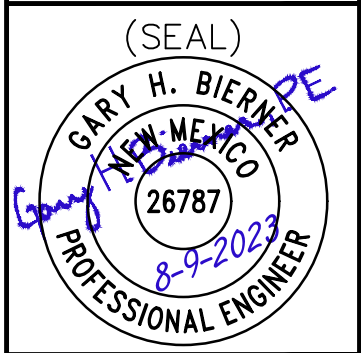
LEGEND	
	PROJECT LOCATION
	COORDINATE CONTROL MONUMENT

DESIGN: DEC
DRAWN: JTK
CHECKED: TJM, GHB
DATE: 8-9-2023
REV:
REV:
REV:

PROJECT  
VILLAGE OF TAOS SKI VALLEY  
PHOENIX SWITCHBACK  
WATERLINE REPLACEMENT



TITLE  
VICINITY MAP



SHEET  
GI002

NOTICE OF EXTENDED PAYMENT PROVISION –  
THIS CONTRACT ALLOWS THE OWNER TO MAKE  
PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
OF AN UNDISPUTED REQUEST FOR PAYMENT



GENERAL NOTES

1. THE CONTRACTOR WILL NOT BE ALLOWED TO STORE EQUIPMENT OR MATERIAL IN THE CONSTRUCTION ZONE DURING NON-WORKING HOURS. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING AN EQUIPMENT STORAGE YARD. NO DIRECT PAYMENT WILL BE MADE FOR THE YARD.
2. CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS (NMSSPW), AS WELL AS THE MOST CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, UNLESS OTHERWISE SPECIFIED HEREIN. ALL COSTS RELATED TO TRAFFIC CONTROL SHALL BE INCLUDED IN BID ITEM 1200.001, TEMPORARY TRAFFIC CONTROL.
3. THE CONTRACTOR SHALL, AT ALL TIMES, COORDINATE THE WORK UNDER THIS CONTRACT WITH THE AUTHORITIES HAVING JURISDICTION OVER STREETS AND HIGHWAYS. THE CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN FOR EACH CONSTRUCTION PHASE FOR APPROVAL BY THE ENGINEER'S REPRESENTATIVE PRIOR TO CONSTRUCTION. AS PART OF THE TRAFFIC CONTROL PLAN AND TRAFFIC CONTROL MANAGEMENT, THE CONTRACTOR SHALL HAVE PERSONNEL AVAILABLE 24 HOURS PER DAY, 7 DAYS PER WEEK, TO INSPECT AND MAINTAIN DETOURS AND TRAFFIC CONTROL DEVICES. IF THE CONTRACTOR FAILS TO PROPERLY MAINTAIN TRAFFIC CONTROL DURING CONSTRUCTION, AS DETERMINED BY THE OWNER OR ENGINEER, PENALTIES IN THE AMOUNT OF \$300 PER DAY WILL BE ASSESSED AND DEDUCTED FROM FINAL PAYMENT TO THE CONTRACTOR.
4. THE CONTRACTOR SHALL SALVAGE ANY OBSTRUCTIONS NOTED ON THE CONTRACT DRAWINGS AS WELL AS REUSABLE ITEMS FOUND DURING CONSTRUCTION. SUCH ITEMS, IF ANY, SHALL BE DELIVERED TO THE PROPER OWNER AS DIRECTED BY THE ENGINEER'S REPRESENTATIVE DURING CONSTRUCTION. OBSTRUCTIONS SHALL BE DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE OWNER WILL DESIGNATE A LOCATION DURING CONSTRUCTION FOR ALL SALVAGEABLE, USABLE MATERIALS THAT THE OWNER WILL RETAIN POSSESSION OF, OTHERWISE IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE A DISPOSAL SITE FOR NON-USABLE MATERIALS. THE DISPOSAL SITE MUST BE ACCEPTED BY THE OWNER.
5. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL SURVEY MONUMENTS FROM DAMAGE PRIOR TO INITIATING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY REFERENCING ALL SURVEY MONUMENTS, BENCHMARKS, SECTION CORNERS, OR OTHER PERMANENT REFERENCE MARKERS. IF DURING THE COURSE OF CONSTRUCTION OPERATIONS, THE CONTRACTOR DISTURBS OR DESTROYS A MARK, THE CONTRACTOR SHALL HAVE THE MARK REPLACED BY A NEW MEXICO LICENSED PROFESSIONAL SURVEYOR.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE LOCATION OF ALL UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION. THE GENERAL LOCATION OF KNOWN EXISTING UTILITIES ARE SHOWN ON THE CONSTRUCTION DRAWINGS TO INDICATE THAT CAUTION MUST BE EXERCISED WHEN WORKING IN THESE AREAS. IN MANY CASES THE EXACT LOCATION OF THE FACILITIES IS NOT KNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL OVERHEAD AND UNDERGROUND UTILITIES WITHIN THE VICINITY OF THE NEW CONSTRUCTION. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR, WORKING WITH THE RESPECTIVE UTILITY COMPANIES, SHALL ACCURATELY LOCATE AND MARK ALL BURIED FACILITIES, INCLUDING SERVICE LINES. ALL EQUIPMENT LABOR, ETC. NECESSARY TO PROPERLY LOCATE THE EXISTING UTILITIES SHALL BE FURNISHED BY THE CONTRACTOR, THE COST OF WHICH SHALL BE INCLUDED IN THE UNIT PRICES ON VARIOUS BID ITEMS.

UTILITY OWNER	UTILITY	PHONE NUMBER
1) KIT CARSON ELECTRIC CO-OP	ELECTRIC	575-758-2258 800-688-6780
2) CENTURYLINK	TELEPHONE	800-573-1311-EXT 1
3) KIT CARSON TELECOM	FIBER	575-758-4838
4) TSVI FIBER	FIBER	832-298-2036
5) NM GAS COMPANY	GAS	575-758-4222
6) VILLAGE OF TAOS SKI VALLEY	WATER/SEWER/STORM DRAIN	575-776-4620
	CONTACT ONE CALL	800-321-2537
	ALBUQUERQUE	505-260-1990

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED BY THE PLANS WHETHER SPECIFICALLY LISTED OR NOT TO COMPLETE THE PROJECT. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND THE CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR UNLISTED REMOVALS. THE CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL IN AN ENVIRONMENTALLY ACCEPTABLE MANNER AT A LOCATION ACCEPTABLE TO THE OWNER.
8. THE CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS TO LOCAL BUSINESS'S AND RESIDENTS FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ADVISE OF AND SCHEDULE ACCESS CLOSURES AT LEAST 24 HOURS IN ADVANCE WITH PROPERTY OWNERS.
9. BEDDING AND INITIAL BACKFILL MATERIAL CAN BE OBTAINED TAOS SKI VALLEY, INC AT NO EXPENSE. SEPARATE PAYMENT WILL NOT BE MADE FOR BEDDING AND BACKFILL, MATERIAL OR HAUL. ALL BEDDING AND BACKFILL MATERIAL OR HAUL SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS WORK ITEMS. THE CONTRACTOR SHALL SECURE A SUITABLE BEDDING AND BACKFILL MATERIAL SOURCE TO COMPLETE THE PROJECT, IF REQUIRED.
10. EXCESS MATERIAL, IF APPLICABLE, SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.
11. WATER REQUIRED TO OBTAIN OPTIMUM MOISTURE IN THE BACKFILL MATERIAL AND FOR TESTING, STERILIZATION AND FLUSHING OF THE NEW LINES MAY BE OBTAINED IN REASONABLE QUANTITIES FROM THE OWNER'S EXISTING LINES AND FIRE HYDRANTS AT NO COST. WATER USAGE IN EXCESS OF THE AMOUNT CONSIDERED REASONABLE BY THE OWNER, WILL BE BILLED TO THE CONTRACTOR AT THE RATE OF \$0.0486 PER GALLON. THE OWNER WILL BASE REASONABLE QUANTITIES ON THEIR ABILITY TO PROVIDE SERVICE. THE OWNER WILL DESIGNATE A SINGLE FIRE HYDRANT NEAR THE CENTER OF THE WORK AREA THAT SHALL BE USED BY THE CONTRACTOR TO OBTAIN WATER FOR CONSTRUCTION PURPOSES. THE CONTRACTOR SHALL PROVIDE A HYDRANT METER AND ISOLATION VALVE. THE CONTRACTOR SHALL COORDINATE THE USE OF THE METER AND WATER WITH ANTHONY MARTINEZ, PUBLIC WORKS DIRECTOR.
12. THE CONTRACTOR SHALL PREPARE AND MAINTAIN UP-TO-DATE RECORD DRAWINGS. UPDATING SUCH DRAWINGS SHALL BE DONE NOT LESS THAN ONCE EVERY WEEK AND SHALL BE LEGIBLE. THE ENGINEER'S REPRESENTATIVE SHALL BE ALLOWED TO REVIEW THESE DRAWINGS AT ANY TIME DURING CONSTRUCTION. PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER'S REPRESENTATIVE COMPLETE RECORD DRAWINGS. REFER TO SPECIFICATION 1506 FOR ADDITIONAL INFORMATION.
13. NOT LESS THAN 5 DAYS PRIOR TO INITIATING ANY WORK, THE CONTRACTOR SHALL SUBMIT A DUST SUPPRESSION AND EROSION CONTROL PLAN FOR THE APPROVAL OF THE ENGINEER'S REPRESENTATIVE. THE CONTRACTOR SHALL MAINTAIN EXCAVATIONS, STOCKPILES, HAUL ROADS, PERMANENT AND TEMPORARY ACCESS ROADS, PLANT SITES, SPOIL AREAS, BORROW AREAS, AND OTHER WORK AREAS WITHIN OR OUTSIDE THE PROJECT BOUNDARIES FREE FROM PARTICULATES WHICH WOULD CAUSE FEDERAL, STATE, AND LOCAL AIR POLLUTION STANDARDS TO BE EXCEEDED OR WHICH WOULD CAUSE A HAZARD OR A NUISANCE. REFER TO SPECIFICATION 1520 FOR MORE INFORMATION.
14. THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION OPERATIONS TO THE LIMITS OF THE PROJECT DEFINED IN THESE DRAWINGS, AND IN NO WAY ENCROACH ONTO ADJACENT PROPERTIES UNLESS LEGAL EASEMENTS ARE PROVIDED. CONTRACTOR SHALL BE HELD SOLELY RESPONSIBLE FOR ANY AGREEMENTS NEEDED, OR DAMAGE CAUSED BY, CONSTRUCTION ACTIVITIES TO PUBLIC OR PRIVATE PROPERTY, INCLUDING UTILITIES.
15. OVER EXCAVATION OF TRENCHES SHALL NOT BE PERFORMED UNLESS IT IS DETERMINED, TO THE SATISFACTION OF THE DESIGN ENGINEER, THAT THE SUBSOIL IS NOT SUITABLE FOR PIPE BEDDING AND MUST BE REPLACED WITH IMPORTED FILL. OVER EXCAVATION PERFORMED UNNECESSARILY BY THE CONTRACTOR SHALL BE REMEDIED WITH CLASSIFIED FILL AND COMPACTION AS REQUIRED BY THE SPECIFICATIONS, AT THE CONTRACTOR'S EXPENSE.
16. BACKFILL DENSITY AND OTHER QC TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACTORS QUALITY CONTROL PLAN THAT IS REVIEWED FOR CONFORMITY TO THE CONTRACT. THE QUALITY CONTROL PLAN SHALL ADDRESS THE MINIMUM QUALITY CONTROL TESTING REQUIREMENTS AND OTHER PROVISIONS OF SPECIFICATION 1511.
17. CONTRACTOR SHALL SUBMIT ASTM OR AASHTO CERTIFICATES OF MATERIAL'S COMPLIANCE TO THE ENGINEER'S REPRESENTATIVE, NO LESS THAN 5 DAYS PRIOR TO INITIATING ANY WORK INVOLVING SUCH MATERIALS. PRIOR TO ORDERING PIPE, FITTINGS, AND OTHER MATERIALS, THE CONTRACTOR SHALL PROVIDE SUBMITTALS PER SPECIFICATION 1502.
18. CONTRACTOR SHALL REPAIR ANY EXISTING STRUCTURE OR UTILITY CONDUIT DAMAGED DURING THE EXECUTION OF THE PROJECT, AT NO ADDITIONAL COST TO THE OWNER.

GENERAL NOTES CON'T.

19. ALL AREAS DISTURBED BY THE CONSTRUCTION ACTIVITIES OF THIS PROJECT SHALL BE RESTORED AND RE-GRADED IN A MANNER ACCEPTABLE TO THE OWNER. EROSION AND SEDIMENT CONTROL WILL BE REQUIRED ADJACENT TO THE DISTURBED AREAS. REFER TO SPECIFICATION 1521 FOR INFORMATION ON EROSION AND SEDIMENT CONTROL.
20. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROTECTION OF MATERIALS AND EQUIPMENT PRIOR TO AND AFTER THEIR INSTALLATION AS APPLICABLE, UNTIL THE PROJECT'S FINAL ACCEPTANCE BY THE OWNER.
21. THE ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND IS NOT LIABLE FOR PROBLEMS THAT MAY ARISE FROM THE CONTRACTOR'S FAILURE TO FOLLOW THESE DRAWINGS, SPECIFICATIONS, AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS ARISING FROM FAILURE TO OBTAIN AND/OR FOLLOW THE ENGINEER'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS.
22. VIRTUALLY ALL WORK REQUIRED TO COMPLETE THIS PROJECT INVOLVES REHABILITATION OR CONNECTIONS TO EXISTING FACILITIES. THE CONTRACTOR SHALL COOPERATE FULLY WITH THE OWNER AND SHALL COORDINATE HIS ACTIVITIES TO REDUCE THE NUMBER OF TIMES THE LOCAL RESIDENTS WILL BE WITHOUT WATER SERVICE. THE CONTRACTOR SHALL DISTRIBUTE WRITTEN NOTICES TO EACH AFFECTED USER AT LEAST TWENTY-FOUR HOURS PRIOR TO WATER SERVICE BEING DISCONTINUED AND THE ANTICIPATED DURATION OF THE OUTAGE. ALL WATER OUTAGES SHALL BE COORDINATED WITH THE OWNER. EVERY EFFORT SHALL BE MADE TO REDUCE BOTH THE NUMBER AND DURATION OF WATER SERVICE OUTAGES.
23. WHERE PARTICULAR WORK ITEMS ARE NOT SPECIFIED HEREIN, THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION) AND THE APPLICABLE SUPPLEMENTAL SPECIFICATIONS SHALL GOVERN THE CONSTRUCTION OF THIS PROJECT UNLESS OTHERWISE NOTED.
24. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER ON FINAL LOCATIONS OF ALL ABOVE GROUND AND SURFACE ITEMS SUCH AS FIRE HYDRANTS, METERS, VALVES, ETC. PRIOR TO INSTALLATION.

ENVIRONMENTAL REQUIREMENTS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING AND CLEANUP OF SPILLS ASSOCIATED WITH PROJECT CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC AND CORROSIVE SUBSTANCES, AND OTHER MATERIALS WHICH MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING PAST SPILLS ENCOUNTERED DURING CONSTRUCTION AND OF CURRENT SPILLS NOT ASSOCIATED WITH CONSTRUCTION. REPORTS SHALL BE MADE IMMEDIATELY TO THE NM ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT (505) 827-9329 AND TO THE ENGINEER AND OWNER. ANY UNREPORTED SPILLS IDENTIFIED AFTER CONSTRUCTION AND THE ASSOCIATED CLEANUP COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ALL WORK IN THE VICINITY OF LIVE STREAMS, WATER IMPOUNDMENT, WETLANDS OR IRRIGATION SUPPLIES SHALL BE COMPLETED IN SUCH A MANNER AS TO MINIMIZE VEGETATION REMOVAL, SOIL DISTURBANCE AND EROSION. CROSSINGS OF LIVE STREAMS WITH HEAVY EQUIPMENT SHALL BE MINIMIZED, AS DETERMINED BY THE ENGINEER. EQUIPMENT REFUELING, MAINTENANCE AND CEMENT DUMPING IN THE VICINITY OF WATER COURSES IS STRICTLY PROHIBITED AND SHALL BE PERFORMED IN PROPER CONTAINMENT AREAS.
3. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR EROSION CONTROL INCIDENTAL TO THE CONSTRUCTION ACTIVITIES. IN THE EVENT THAT ONE (1) ACRE OR MORE IS DISTURBED, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER, A STORM WATER POLLUTION PREVENTION PLAN THAT WILL ADDRESS ALL CONSTRUCTION PHASES AND THE PROPOSED POLLUTION PREVENTION AND SEDIMENT CONTROL MEASURES. THIS SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT REQUIREMENT FOR ALL CONSTRUCTION ACTIVITIES.
4. HISTORIC PRESERVATION – ANY EXCAVATION BY THE CONTRACTOR THAT UNCOVERS AN HISTORICAL OR ARCHAEOLOGICAL ARTIFACT SHALL BE IMMEDIATELY REPORTED TO THE PROJECT ENGINEER. CONSTRUCTION SHALL BE TEMPORARILY HALTED PENDING NOTIFICATION PROCESS AND FURTHER DIRECTIONS ISSUED BY THE PROJECT ENGINEER AFTER CONSULTATION WITH THE STATE HISTORIC PRESERVATION OFFICE (SHPO).
5. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING STRUCTURES FREE OF DUST AND/OR CONSTRUCTION DEBRIS AT ALL TIMES DURING THE EXECUTION OF THE PROJECT. ALL EXISTING AND NEW STRUCTURES SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. CONDUCT CLEANING AND DISPOSAL OPERATIONS TO COMPLY WITH CODES, ORDINANCES, REGULATIONS, AND ANTI-POLLUTION LAWS. ALL COSTS RELATED TO THIS ITEM SHALL BE INCIDENTAL TO THE WORK AND NO EXTRA PAYMENT SHALL BE MADE TO THE CONTRACTOR. REFER TO SPECIFICATION 1518 FOR ADDITIONAL INFORMATION.

PROJECT SYMBOLS LEGEND

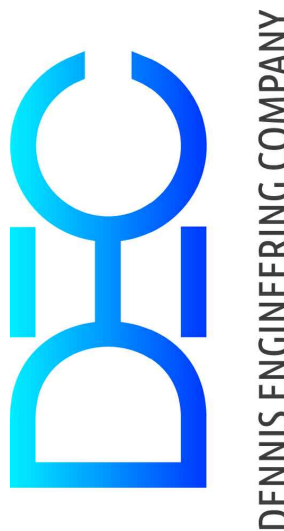
	WATER VALVE		HORIZONTAL CONTROL
	FIRE HYDRANT		SURVEY MONUMENT – CAPPED REBAR
	COMB. AIR RELEASE VALVE		SURVEY MONUMENT – REBAR
	WATER METER		COUPLING
	POWER POLE		TEE
	LIGHT POLE		CAP
	ANCHOR		SEWER MANHOLE
	SIGN (DOUBLE)		DROP INLET
	SIGN (SINGLE)		CONCRETE PAD
	FOUND MONUMENT		BORE HOLE LOCATION FOR SOIL TEST SEE SUPPLEMENTARY CONDITIONS FOR TEST RESULTS
	TELECOMMUNICATIONS VAULT		
	ELECTRIC BOX		

LINETYPE LEGEND

	OVERHEAD ELECTRIC LINE
	WATER LINE (APPROXIMATE LOCATION)
	UNDERGROUND TELECOMMUNICATIONS LINE (APPROXIMATE LOCATION)
	UNDERGROUND ELECTRIC LINE (APPROXIMATE LOCATION)
	SEWER LINE (APPROXIMATE LOCATION)
	STORM DRAIN (APPROXIMATE LOCATION)
	BARBED WIRE FENCE
	CHAIN LINK FENCE
	WOODEN FENCE
	PIPE FENCE
	APPROXIMATE ROW

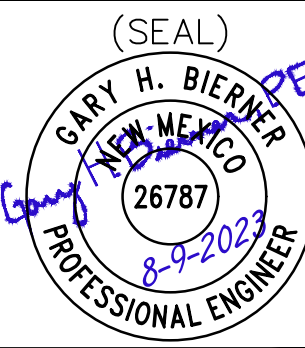
PROJECT

VILLAGE OF TAOS SKI VALLEY  
PHOENIX SWITCHBACK  
WATERLINE REPLACEMENT



TITLE

GENERAL NOTES, ENVIRONMENTAL  
REQUIREMENTS, AND LEGEND



SHEET

GC001

NOTICE OF EXTENDED PAYMENT PROVISION – THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT



8" SDR9 DIPS HDPE WATERLINE (801.208)			
BASE BID SCHEDULE I: NEW 8" SDR9 DIPS HDPE WATERLINE			
ALIGNMENT DESCRIPTION	STA	STA	LF
COYOTE LANE	0+00	12+00	1200
CHIPMUNK LANE	12+00	16+50	450
PRSV 4B	11+20	11+20	32
PHOENIX SWITCHBACK	16+50	29+83	1333
TOTAL BASE BID SCHEDULE I			3015
USE			3020

6" SDR9 DIPS HDPE WATERLINE (801.206)			
BASE BID SCHEDULE II: NEW 6" SDR9 DIPS HDPE WATERLINE			
ALIGNMENT DESCRIPTION	STA	STA	LF
COYOTE LANE	0+00	12+00	1200
CHIPMUNK LANE	12+00	16+50	450
PRSV 4B	11+20	11+20	32
PHOENIX SWITCHBACK	16+50	29+83	1333
TOTAL BASE BID SCHEDULE II			3015
USE			3020

CONNECT TO EXISTING WATER LINE (801.802 & 801.803)			
BASE BID SCHEDULE I: NEW 8" SDR9 DIPS HDPE WATERLINE			
ALIGNMENT DESCRIPTION	STA	SIZE	QUANTITY
COYOTE LANE	0+00	8"	1
COYOTE LANE	11+04	4"	1
COYOTE LANE	11+05	8"	2
COYOTE LANE	11+19	4"	1
PHOENIX SWITCHBACK	29+77	8"	1
TOTAL BASE BID SCHEDULE I (CONNECTIONS 4"-6")			2
TOTAL BASE BID SCHEDULE I (CONNECTIONS 8"-10")			4
BASE BID SCHEDULE II: NEW 6" SDR9 DIPS HDPE WATERLINE			
ALIGNMENT DESCRIPTION	STA	SIZE	QUANTITY
COYOTE LANE	0+00	8"	1
COYOTE LANE	11+04	4"	1
COYOTE LANE	11+05	8"	2
COYOTE LANE	11+19	4"	1
PHOENIX SWITCHBACK	29+77	8"	1
TOTAL BASE BID SCHEDULE II (CONNECTIONS 4"-6")			2
TOTAL BASE BID SCHEDULE II (CONNECTIONS 8"-10")			4

PORTLAND CEMENT (LEAN FILL) ENCASEMENT FOR UTILITIES (701.400)			
BASE BID SCHEDULE I: NEW 8" SDR9 DIPS HDPE WATERLINE			
ALIGNMENT DESCRIPTION	STA	STA	LENGTH
COYOTE LANE	0+17	0+37	20.00
COYOTE LANE	2+14	2+34	20.00
COYOTE LANE	3+36	3+56	20.00
COYOTE LANE	6+34	6+54	20.00
COYOTE LANE	7+67	7+87	20.00
COYOTE LANE	11+00	11+50	50.00
CHIPMUNK LANE	12+54	12+74	20.00
CHIPMUNK LANE	15+41	15+61	20.00
CHIPMUNK LANE	16+10	16+30	20.00
PHOENIX SWITCHBACK	25+14	25+34	20.00
PHOENIX SWITCHBACK	29+33	29+53	20.00
TOTAL BASE BID SCHEDULE I			250
BASE BID SCHEDULE II: NEW 6" SDR9 DIPS HDPE WATERLINE			
ALIGNMENT DESCRIPTION	STA	STA	LENGTH
COYOTE LANE	0+17	0+37	20.00
COYOTE LANE	2+14	2+34	20.00
COYOTE LANE	3+36	3+56	20.00
COYOTE LANE	6+34	6+54	20.00
COYOTE LANE	7+67	7+87	20.00
COYOTE LANE	11+00	11+50	50.00
CHIPMUNK LANE	12+54	12+74	20.00
CHIPMUNK LANE	15+41	15+61	20.00
CHIPMUNK LANE	16+10	16+30	20.00
PHOENIX SWITCHBACK	25+14	25+34	20.00
PHOENIX SWITCHBACK	29+33	29+53	20.00
TOTAL BASE BID SCHEDULE II			250

NEW COMBINATION AIR/VACUUM RELEASE VALVE, COMPLETE IN PLACE (801.922)			
BASE BID SCHEDULE I: NEW 8" SDR9 DIPS HDPE WATERLINE			
ALIGNMENT DESCRIPTION	STA	SIZE	QUANTITY
PHOENIX SWITCHBACK	16+70	2"	1
TOTAL BASE BID SCHEDULE I (2" CAV)			1
BASE BID SCHEDULE II: NEW 6" SDR9 DIPS HDPE WATERLINE			
ALIGNMENT DESCRIPTION	STA	SIZE	QUANTITY
PHOENIX SWITCHBACK	16+70	2"	1
TOTAL BASE BID SCHEDULE II (2" CAV)			1

ROCK EXCAVATION (701.100)		
BASE BID SCHEDULE I: NEW 8" SDR9 DIPS HDPE WATERLINE		
ALIGNMENT DESCRIPTION	LENGTH	CY
COYOTE LANE	1200	88.80
CHIPMUNK LANE	450	33.30
PHOENIX SWITCHBACK	1333	98.64
TOTAL BASE BID SCHEDULE I		221
USE		230
BASE BID SCHEDULE II: NEW 6" SDR9 DIPS HDPE WATERLINE		
ALIGNMENT DESCRIPTION	LENGTH	CY
COYOTE LANE	1200	88.80
CHIPMUNK LANE	450	33.30
PHOENIX SWITCHBACK	1333	98.64
TOTAL BASE BID SCHEDULE II		221
USE		230

FURNISH AND INSTALL 3/4" TYPE "K" WATER SERVICE LINE (802.100)		
BASE BID SCHEDULE I: NEW 8" SDR9 DIPS HDPE WATERLINE		
ALIGNMENT DESCRIPTION	STA	SERVICE LENGTH (FT)
COYOTE LANE	0+53	23
COYOTE LANE	1+56	19
COYOTE LANE	3+18	24
COYOTE LANE	7+15	18
COYOTE LANE	11+78	43
CHIPMUNK LANE	13+32	26
CHIPMUNK LANE	14+53	17
PHOENIX SWITCHBACK	19+14	8
PHOENIX SWITCHBACK	27+21	18
PHOENIX SWITCHBACK	28+16	16
TOTAL BASE BID SCHEDULE I (3/4" SERVICE LINE)		212
BASE BID SCHEDULE II: NEW 6" SDR9 DIPS HDPE WATERLINE		
ALIGNMENT DESCRIPTION	STA	SERVICE LENGTH (FT)
COYOTE LANE	0+53	23
COYOTE LANE	1+56	19
COYOTE LANE	3+18	24
COYOTE LANE	7+15	18
COYOTE LANE	11+78	43
CHIPMUNK LANE	13+32	26
CHIPMUNK LANE	14+53	17
PHOENIX SWITCHBACK	19+14	8
PHOENIX SWITCHBACK	27+21	18
PHOENIX SWITCHBACK	28+16	16
TOTAL BASE BID SCHEDULE II (3/4" SERVICE LINE)		212

REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT ASSEMBLY (801.752)		
BASE BID SCHEDULE I: NEW 8" SDR9 DIPS HDPE WATERLINE		
ALIGNMENT DESCRIPTION	STA	QUANTITY
CHIPMUNK LANE	12+17	1
PHOENIX SWITCHBACK	29+36	1
TOTAL BASE BID SCHEDULE I		2
BASE BID SCHEDULE II: NEW 6" SDR9 DIPS HDPE WATERLINE		
ALIGNMENT DESCRIPTION	STA	QUANTITY
CHIPMUNK LANE	12+17	1
PHOENIX SWITCHBACK	29+36	1
TOTAL BASE BID SCHEDULE II		2

GATE VALVE ASSEMBLIES (801.508)			
BASE BID SCHEDULE I: NEW 8" SDR9 DIPS HDPE WATERLINE			
ALIGNMENT DESCRIPTION	STA	SIZE	QUANTITY
COYOTE LANE	0+00	8"	2
COYOTE LANE	11+04	8"	1
COYOTE LANE	11+10	8"	1
COYOTE LANE	29+36	8"	2
TOTAL BASE BID SCHEDULE I (8" GATE VALVES)			6
BASE BID SCHEDULE II: NEW 6" SDR9 DIPS HDPE WATERLINE			
ALIGNMENT DESCRIPTION	STA	SIZE	QUANTITY
COYOTE LANE	0+00	6"	1
COYOTE LANE	0+00	8"	1
COYOTE LANE	11+04	6"	1
COYOTE LANE	11+10	6"	1
COYOTE LANE	29+36	6"	1
COYOTE LANE	29+36	8"	1
TOTAL BASE BID SCHEDULE II (6" GATE VALVES)			4
TOTAL BASE BID SCHEDULE II (8" GATE VALVES)			2

SUMMARY OF QUANTITIES									
BASE BID SCHEDULE I: NEW 8" SDR9 DIPS HDPE WATERLINE			ROADWAY		UTILITY			CONSTRUCTION ENGINEERING	
ITEM NO.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY	ESTIMATED QUANTITY	FINAL QUANTITY	ESTIMATED QUANTITY	FINAL QUANTITY	PROJECT TOTAL
401.500	NEW 4" DIA. BOLLARD, COMPLETE IN PLACE	EA			8				8
701.100	ROCK EXCAVATION	CY			230				230
701.400	PORTLAND CEMENT (LEAN FILL) ENCASEMENT FOR UTILITIES, COMPLETE IN PLACE	LF			250				250
801.208	FURNISH AND INSTALL 8" SDR9 DIPS HDPE WATERLINE, INCLUDING TRENCHING, BACKFILL, INSULATION, FITTINGS, ETC., COMPLETE IN PLACE	LF			3020				3020
801.508	FURNISH AND INSTALL 8" GATE VALVE ASSEMBLY, COMPLETE W/ VALVE BOX, COMPLETE IN PLACE	EA			6				6
801.750	FURNISH AND INSTALL 6" FIRE HYDRANT ASSEMBLY, COMPLETE IN PLACE	EA			4				4
801.752	REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT ASSEMBLY, COMPLETE IN PLACE	EA			2				2
801.802	CONNECT TO EXISTING WATER LINE, 4" TO 6" IN DIAMETER, COMPLETE IN PLACE	EA			2				2
801.803	CONNECT TO EXISTING WATER LINE, 8" TO 10" IN DIAMETER, COMPLETE IN PLACE	EA			4				4
801.852	CAP EXISTING WATER LINE, 4" TO 6" IN DIAMETER, COMPLETE IN PLACE	EA			3				3
801.922	FURNISH AND INSTALL NEW 2" COMBINATION AIR/VACUUM RELEASE VALVE ASSEMBLY INCLUDING HDPE VAULT, COMPLETE IN PLACE	EA			1				1
802.100	FURNISH AND INSTALL 3/4" TYPE "K" COPPER SERVICE LINE WITH CURB STOP AND RISER, COMPLETE IN PLACE	LF			212				212
1111.010	FURNISH AND INSTALL 24" HDPE VAULT, INCLUDING TRENCHING, BACKFILL, FOAM INSULATION, BRACKETS, LADDER, LID, ETC., COMPLETE IN PLACE	EA			1				1
1200.001	TEMPORARY TRAFFIC CONTROL	LS					1		1
1500.001	MOBILIZATION/DEMOBILIZATION	LS					1		1
1500.500	CONSTRUCTION STAKING	LS					1		1
1510.100	GENERAL SITE REMOVAL AND DISPOSAL OF STRUCTURES AND OBSTRUCTIONS, COMPLETE	LS			1				1
1511.000	CONTRACTOR'S QUALITY CONTROL CONSTRUCTION TESTING	ALL					1		1
1520.001	TEMPORARY/PERMANENT EROSION AND SEDIMENT CONTROL	LS					1		1
BASE BID SCHEDULE II: NEW 6" SDR9 DIPS HDPE WATERLINE			ROADWAY		UTILITY			CONSTRUCTION ENGINEERING	
ITEM NO.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY	ESTIMATED QUANTITY	FINAL QUANTITY	ESTIMATED QUANTITY	FINAL QUANTITY	PROJECT TOTAL
401.500	NEW 4" DIA. BOLLARD, COMPLETE IN PLACE	EA			8				8
701.100	ROCK EXCAVATION	CY			230				230
701.400	PORTLAND CEMENT (LEAN FILL) ENCASEMENT FOR UTILITIES, COMPLETE IN PLACE	LF			250				250
801.206	FURNISH AND INSTALL 6" SDR9 DIPS HDPE WATERLINE, INCLUDING TRENCHING, BACKFILL, INSULATION, FITTINGS, ETC., COMPLETE IN PLACE	LF			3020				3020
801.508	FURNISH AND INSTALL 6" GATE VALVE ASSEMBLY, COMPLETE W/ VALVE BOX, COMPLETE IN PLACE	EA			4				4
801.508	FURNISH AND INSTALL 8" GATE VALVE ASSEMBLY, COMPLETE W/ VALVE BOX, COMPLETE IN PLACE	EA			2				2
801.750	FURNISH AND INSTALL 6" FIRE HYDRANT ASSEMBLY, COMPLETE IN PLACE	EA			4				4
801.752	REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT ASSEMBLY, COMPLETE IN PLACE	EA			2				2
801.802	CONNECT TO EXISTING WATER LINE, 4" TO 6" IN DIAMETER, COMPLETE IN PLACE	EA			2				2
801.803	CONNECT TO EXISTING WATER LINE, 8" TO 10" IN DIAMETER, COMPLETE IN PLACE	EA			4				4
801.852	CAP EXISTING WATER LINE, 4" TO 6" IN DIAMETER, COMPLETE IN PLACE	EA			3				3
801.922	FURNISH AND INSTALL NEW 2" COMBINATION AIR/VACUUM RELEASE VALVE ASSEMBLY INCLUDING HDPE VAULT, COMPLETE IN PLACE	EA			1				1
802.100	FURNISH AND INSTALL 3/4" TYPE "K" COPPER SERVICE LINE WITH CURB STOP AND RISER, COMPLETE IN PLACE	LF			212				212
1111.010	FURNISH AND INSTALL 24" HDPE VAULT, INCLUDING TRENCHING, BACKFILL, FOAM INSULATION, BRACKETS, LADDER, LID, ETC., COMPLETE IN PLACE	EA			1				1
1200.001	TEMPORARY TRAFFIC CONTROL	LS					1		1
1500.001	MOBILIZATION/DEMOBILIZATION	LS					1		1
1500.500	CONSTRUCTION STAKING	LS					1		1
1510.100	GENERAL SITE REMOVAL AND DISPOSAL OF STRUCTURES AND OBSTRUCTIONS, COMPLETE	LS			1				1
1511.000	CONTRACTOR'S QUALITY CONTROL CONSTRUCTION TESTING	ALL					1		1
1520.001	TEMPORARY/PERMANENT EROSION AND SEDIMENT CONTROL	LS					1		1

6" FIRE HYDRANT ASSEMBLIES (801.750)			
BASE BID SCHEDULE I: NEW 8" SDR9 DIPS HDPE WATERLINE			
ALIGNMENT DESCRIPTION	STA	HYDRANT LEG (LF)	QUANTITY
COYOTE LANE	0+33	12	1
CHIPMUNK LANE	12+17	15	1
PHOENIX SWITCHBACK	16+76	13	1
PHOENIX SWITCHBACK	29+36	52	1
TOTAL BASE BID SCHEDULE I		92	4
BASE BID SCHEDULE II: NEW 6" SDR9 DIPS HDPE WATERLINE			
ALIGNMENT DESCRIPTION	STA	HYDRANT LEG (LF)	QUANTITY
COYOTE LANE	0+33	12	1
CHIPMUNK LANE	12+17	15	1
PHOENIX SWITCHBACK	16+76	13	1
PHOENIX SWITCHBACK	29+36	52	1
TOTAL BASE BID SCHEDULE II		92	4

CAP EXISTING WATER LINE (801.852)			
BASE BID SCHEDULE I: NEW 8" SDR9 DIPS HDPE WATERLINE			
ALIGNMENT DESCRIPTION	STA	SIZE	QUANTITY
COYOTE LANE	11+07	4"	1
COYOTE LANE	11+20	4"	1
PHOENIX SWITCHBACK	29+77	4"	1
TOTAL BASE BID SCHEDULE I (CAP EXISTING 4"-6")			3
BASE BID SCHEDULE II: NEW 6" SDR9 DIPS HDPE WATERLINE			
ALIGNMENT DESCRIPTION	STA	SIZE	QUANTITY
COYOTE LANE	11+07	4"	1
COYOTE LANE	11+20	4"	1
PHOENIX SWITCHBACK	29+77	4"	1
TOTAL BASE BID SCHEDULE II (CAP EXISTING 4"-6")			3

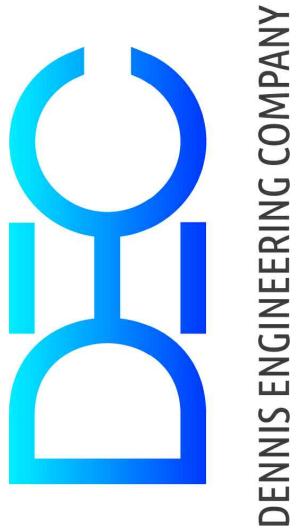
CONSTRUCTION STAKING (1500.500)			
BASE BID SCHEDULE I: NEW 8" SDR9 DIPS HDPE WATERLINE			
DESCRIPTION	STA . TO STA.	LF	
COYOTE LANE	0+00 12+00	1200	
CHIPMUNK LANE	12+00 16+50	450	
PHOENIX SWITCHBACK	16+50 29+83	1333	
TOTAL BASE BID SCHEDULE I		2983	
BASE BID SCHEDULE II: NEW 6" SDR9 DIPS HDPE WATERLINE			
DESCRIPTION	STA . TO STA.	LF	
COYOTE LANE	0+00 12+00	1200	
CHIPMUNK LANE	12+00 16+50	450	
PHOENIX SWITCHBACK	16+50 29+83	1333	
TOTAL BASE BID SCHEDULE II		2983	

NEW BOLLARD, COMPLETE IN PLACE (401.500)			
BASE BID SCHEDULE I: NEW 8" SDR9 DIPS HDPE WATERLINE			
ALIGNMENT DESCRIPTION	STA	SIZE	QUANTITY
COYOTE LANE	0+33	4"	2
CHIPMUNK LANE	12+17	4"	2
PHOENIX SWITCHBACK	16+70	4"	2
PHOENIX SWITCHBACK	29+36	4"	2
TOTAL BASE BID SCHEDULE I (4" Ø BOLLARD)			8
BASE BID SCHEDULE II: NEW 6" SDR9 DIPS HDPE WATERLINE			
ALIGNMENT DESCRIPTION	STA	SIZE	QUANTITY
COYOTE LANE	0+33	4"	2
CHIPMUNK LANE	12+17	4"	2
PHOENIX SWITCHBACK	16+70	4"	2
PHOENIX SWITCHBACK	29+36	4"	2
TOTAL BASE BID SCHEDULE II (4" Ø BOLLARD)			8

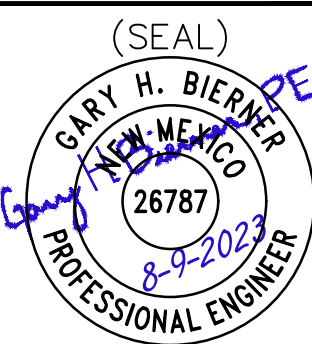


PROJECT COORDINATE LIST												
LINE / CURVE	LOCATION	NORTHING	EASTING	NORTHING	EASTING	BEARING	LENGTH	DELTA	RADIUS	LENGTH	CHORD BEARING	CHORD DISTANCE
L1	STATION 0+00.00 TO STATION 0+10.52	2036280.35	1876604.83	2036287.25	1876612.77	N48° 59' 07"E	10.52					
C1	STATION 0+10.52 TO STATION 0+26.92	2036287.25	1876612.77	2036301.18	1876620.87			37°35'24"	25.00	16.40	N30° 11' 26"E	16.11
L2	STATION 0+26.92 TO STATION 0+47.52	2036301.18	1876620.87	2036321.37	1876624.94	N11° 23' 44"E	20.60					
C2	STATION 0+47.52 TO STATION 0+57.62	2036321.37	1876624.94	2036331.41	1876624.91			23°09'26"	25.00	10.10	N0° 10' 59"W	10.04
L3	STATION 0+57.62 TO STATION 2+00.89	2036331.41	1876624.91	2036471.67	1876595.70	N11° 45' 42"W	143.27					
C3	STATION 2+00.89 TO STATION 2+20.30	2036471.67	1876595.70	2036490.17	1876589.93			11°07'08"	100.00	19.41	N17° 19' 16"W	19.38
L4	STATION 2+20.30 TO STATION 3+26.28	2036490.17	1876589.93	2036587.80	1876548.73	N22° 52' 50"W	105.98					
C4	STATION 3+26.28 TO STATION 3+31.19	2036587.80	1876548.73	2036592.49	1876547.27			11°16'09"	25.00	4.92	N17° 14' 46"W	4.91
L5	STATION 3+31.19 TO STATION 3+52.42	2036592.49	1876547.27	2036613.29	1876543.00	N11° 36' 41"W	21.23					
C5	STATION 3+52.42 TO STATION 3+57.38	2036613.29	1876543.00	2036618.02	1876541.53			11°21'57"	25.00	4.96	N17° 17' 40"W	4.95
L6	STATION 3+57.38 TO STATION 4+40.06	2036618.02	1876541.53	2036694.13	1876509.25	N22° 58' 38"W	82.67					
C6	STATION 4+40.06 TO STATION 4+45.88	2036694.13	1876509.25	2036699.53	1876507.06			1°40'06"	200.00	5.82	N22° 08' 35"W	5.82
L7	STATION 4+45.88 TO STATION 5+28.13	2036699.53	1876507.06	2036776.15	1876477.17	N21° 18' 32"W	82.24					
C7	STATION 5+28.13 TO STATION 5+51.03	2036776.15	1876477.17	2036796.96	1876467.65			6°33'41"	200.00	22.90	N24° 35' 23"W	22.89
L8	STATION 5+51.03 TO STATION 7+16.54	2036796.96	1876467.65	2036943.28	1876390.27	N27° 52' 13"W	165.51					
C8	STATION 7+16.54 TO STATION 7+39.48	2036943.28	1876390.27	2036964.60	1876381.96			13°08'30"	100.00	22.94	N21° 17' 56"W	22.89
C9	STATION 7+39.48 TO STATION 10+64.77	2036964.60	1876381.96	2037268.29	1876267.06			11°59'26"	1554.38	325.29	N20° 43' 24"W	324.70
C10	STATION 10+64.77 TO STATION 10+83.68	2037268.29	1876267.06	2037286.67	1876264.26			36°06'42"	30.00	18.91	N8° 39' 46"W	18.60
L9	STATION 10+83.68 TO STATION 11+04.15	2037286.67	1876264.26	2037306.87	1876267.60	N9° 23' 35"E	20.47					
L10	STATION 11+04.15 TO STATION 11+07.17	2037306.87	1876267.60	2037306.37	1876270.59	S80° 36' 25"E	3.03					
L11	STATION 11+07.17 TO STATION 11+19.34	2037306.37	1876270.59	2037318.37	1876272.62	N9° 35' 59"E	12.17					
L12	STATION 11+19.34 TO STATION 11+53.35	2037318.37	1876272.62	2037351.93	1876278.17	N9° 23' 35"E	34.01					
L13	STATION 11+53.35 TO STATION 11+87.16	2037351.93	1876278.17	2037361.26	1876310.66	N73° 58' 50"E	33.80					
L14	STATION 11+87.16 TO STATION 13+34.14	2037361.26	1876310.66	2037247.00	1876403.13	S38° 58' 56"E	146.99					
C11	STATION 13+34.14 TO STATION 13+43.22	2037247.00	1876403.13	2037240.21	1876409.15			5°12'02"	100.00	9.08	S41° 34' 58"E	9.07
L15	STATION 13+43.22 TO STATION 14+63.68	2037240.21	1876409.15	2037153.83	1876493.10	S44° 10' 59"E	120.46					
C12	STATION 14+63.68 TO STATION 14+73.74	2037153.83	1876493.10	2037145.95	1876499.35			11°32'02"	50.00	10.07	S38° 24' 58"E	10.05
L16	STATION 14+73.74 TO STATION 14+89.22	2037145.95	1876499.35	2037132.92	1876507.70	S32° 38' 57"E	15.48					
C13	STATION 14+89.22 TO STATION 15+12.89	2037132.92	1876507.70	2037116.70	1876524.62			27°07'17"	50.00	23.67	S46° 12' 35"E	23.45
L17	STATION 15+12.89 TO STATION 16+37.37	2037116.70	1876524.62	2037054.03	1876632.17	S59° 46' 14"E	124.48					
C14	STATION 16+37.37 TO STATION 16+58.60	2037054.03	1876632.17	2037037.25	1876644.12			48°39'17"	25.00	21.23	S35° 26' 35"E	20.60
L18	STATION 16+58.60 TO STATION 17+12.61	2037037.25	1876644.12	2036984.24	1876654.53	S11° 06' 56"E	54.02					
C15	STATION 17+12.61 TO STATION 17+26.36	2036984.24	1876654.53	2036970.85	1876657.64			3°56'19"	200.00	13.75	S13° 05' 06"E	13.75
L19	STATION 17+26.36 TO STATION 17+81.99	2036970.85	1876657.64	2036917.14	1876672.09	S15° 03' 16"E	55.62					
C16	STATION 17+81.99 TO STATION 17+97.76	2036917.14	1876672.09	2036901.75	1876675.58			4°31'12"	200.00	15.78	S12° 47' 40"E	15.77
L20	STATION 17+97.76 TO STATION 19+45.95	2036901.75	1876675.58	2036756.06	1876702.68	S10° 32' 04"E	148.19					
C17	STATION 19+45.95 TO STATION 19+79.34	2036756.06	1876702.68	2036724.85	1876714.10			19°07'52"	100.00	33.39	S20° 06' 00"E	33.24
L21	STATION 19+79.34 TO STATION 20+89.41	2036724.85	1876714.10	2036629.22	1876768.57	S29° 39' 56"E	110.06					
C18	STATION 20+89.41 TO STATION 20+95.45	2036629.22	1876768.57	2036624.01	1876771.64			1°43'55"	200.00	6.05	S30° 31' 54"E	6.05
L22	STATION 20+95.45 TO STATION 22+39.86	2036624.01	1876771.64	2036500.74	1876846.88	S31° 23' 51"E	144.41					
C19	STATION 22+39.86 TO STATION 22+63.92	2036500.74	1876846.88	2036478.91	1876856.83			13°46'59"	100.00	24.06	S24° 30' 22"E	24.00
L23	STATION 22+63.92 TO STATION 23+98.63	2036478.91	1876856.83	2036350.51	1876897.60	S17° 36' 52"E	134.71					
C20	STATION 23+98.63 TO STATION 24+31.59	2036350.51	1876897.60	2036321.29	1876912.52			18°52'58"	100.00	32.96	S27° 03' 21"E	32.81
L24	STATION 24+31.59 TO STATION 25+32.64	2036321.29	1876912.52	2036240.06	1876972.63	S36° 29' 50"E	101.06					
C21	STATION 25+32.64 TO STATION 25+53.15	2036240.06	1876972.63	2036221.56	1876981.15			23°29'58"	50.00	20.51	S24° 44' 51"E	20.36
L25	STATION 25+53.15 TO STATION 27+15.29	2036221.56	1876981.15	2036063.58	1877017.62	S12° 59' 52"E	162.14					
C22	STATION 27+15.29 TO STATION 27+18.83	2036063.58	1877017.62	2036060.13	1877018.45			1°00'52"	200.00	3.54	S13° 30' 18"E	3.54
L26	STATION 27+18.83 TO STATION 27+70.25	2036060.13	1877018.45	2036010.25	1877030.90	S14° 00' 44"E	51.42					
C23	STATION 27+70.25 TO STATION 27+93.27	2036010.25	1877030.90	2035987.47	1877033.86			13°11'17"	100.00	23.02	S7° 25' 06"E	22.97
L27	STATION 27+93.27 TO STATION 29+25.19	2035987.47	1877033.86	2035855.56	1877035.76	S0° 49' 27"E	131.92					
C24	STATION 29+25.19 TO STATION 29+52.90	2035855.56	1877035.76	2035835.67	1877019.72			79°24'03"	20.00	27.72	S38° 52' 40"W	25.55
L28	STATION 29+52.90 TO STATION 29+77.27	2035835.67	1877019.72	2035830.85	1876995.83	S78° 34' 41"W	24.37					

PROJECT  
VILLAGE OF TAOS SKI VALLEY  
PHOENIX SWITCHBACK  
WATERLINE REPLACEMENT



TITLE  
PROJECT COORDINATE LIST



SHEET

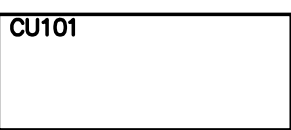

CS101

NOTICE OF EXTENDED PAYMENT PROVISION – THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT

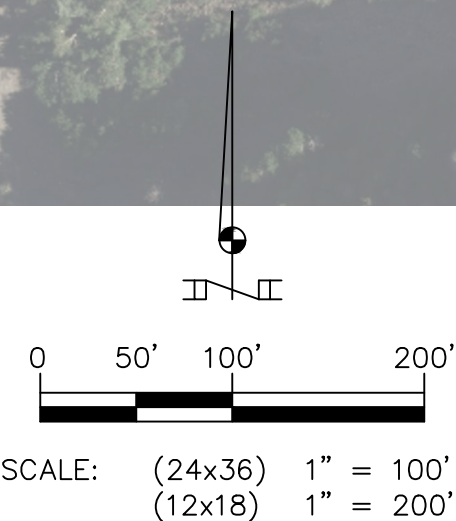




CONTROL POINT TABLE				
NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION
CP 1	#4 REBAR WITH ORANGE CAP	2035780.13	1876857.26	9588.11
CP 2	#4 REBAR WITH ALUMINUM CAP	2036231.47	1876621.57	9520.58
CP 3	#4 REBAR WITH ALUMINUM CAP	2036894.53	1876812.90	9741.07
CP 4	#4 REBAR WITH NO CAP	2035866.47	1877010.87	9585.64
CP 5000	#4 REBAR WITH ALUMINUM CAP	2037529.30	1875294.95	9430.68

LEGEND	
	SHEET INDEX
	COORDINATE CONTROL MONUMENT

SITE UTILITY PLAN & CONTROL  
POINT COORDINATE LIST



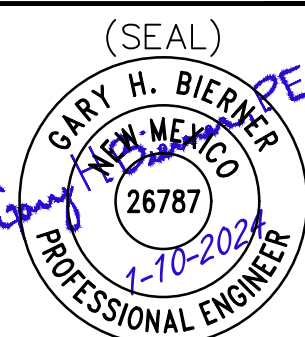
NOTICE OF EXTENDED PAYMENT PROVISION –  
THIS CONTRACT ALLOWS THE OWNER TO MAKE  
PAYMENT WITHIN 45 DAYS AFTER SUBMISSION  
OF AN UNDISPUTED REQUEST FOR PAYMENT

DESIGN: DEC  
DRAWN: JTK  
CHECKED: TJM, GHB  
DATE: 8-9-2023  
REV: 1-10-2024  
REV:  
REV:

PROJECT  
VILLAGE OF TAOS SKI VALLEY  
PHOENIX SWITCHBACK  
WATERLINE REPLACEMENT

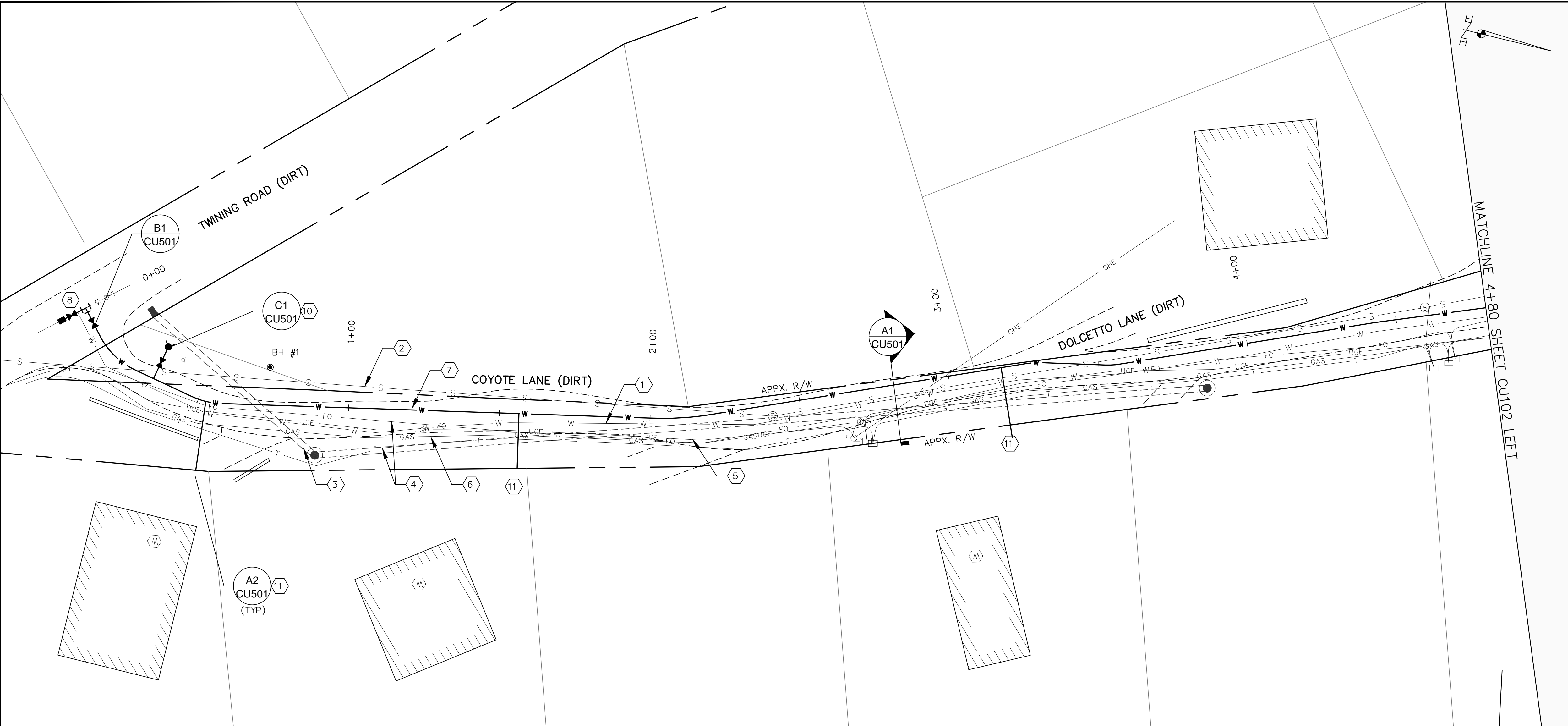


TITLE  
SITE UTILITY PLAN & CONTROL  
POINT COORDINATE LIST



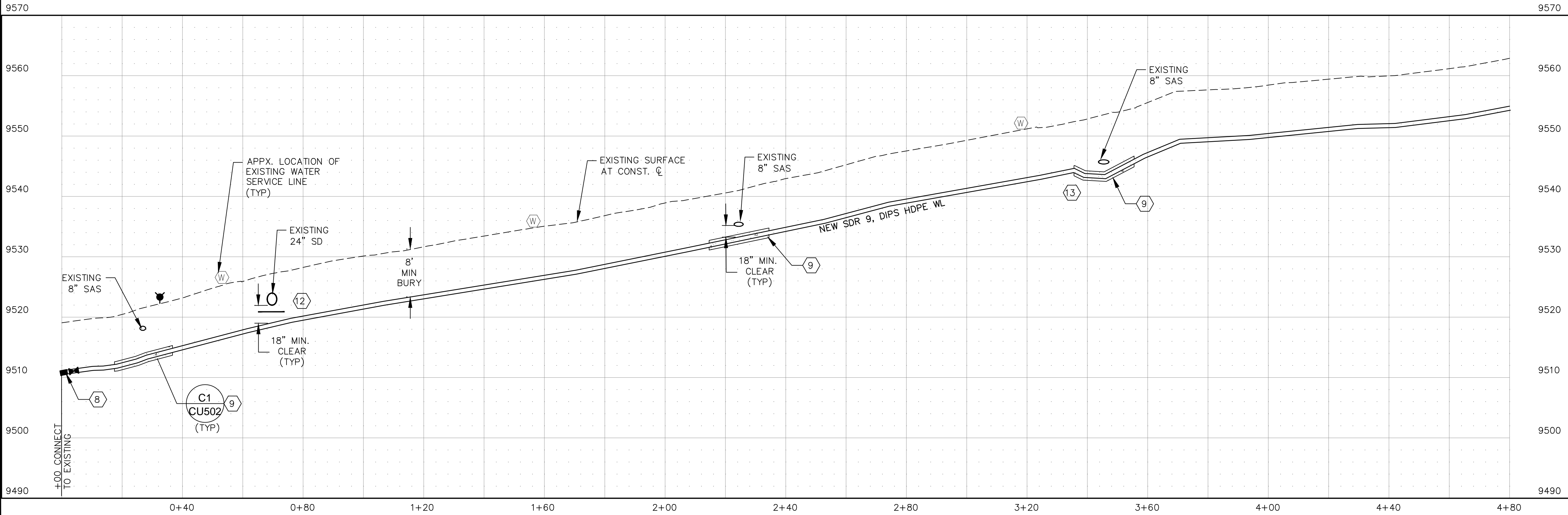
SHEET  
CS102





PLAN & PROFILE  
STA. 0+00 TO 4+80

1"=20' HORIZ. 1"=40' HORIZ.  
1"=10' VERT. 1"=20' VERT.  
(24"x36") (12"x18")



SHEET GENERAL NOTES:

- ALL WATER UTILITY INSTALLATION SHALL BE IN CONFORMANCE WITH DEC SUPPLEMENTAL SPECIFICATION 801.
- CONTRACTOR SHALL MAINTAIN WATER SERVICE THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL BURY NEW WATERLINE A MINIMUM OF 8'.
- EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY THE RESPECTIVE UTILITY OWNERS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTHS OF EXISTING UTILITIES AS NECESSARY TO COMPLETE THE IMPROVEMENTS SHOWN.
- CONTRACTOR SHALL PROTECT AND MAINTAIN POWER POLES DURING WATERLINE INSTALLATION, AS NECESSARY.
- ROADWAYS AND DRAINAGE SWALES SHALL BE RE-GRADED TO THEIR ORIGINAL SHAPE AS REQUIRED.
- WHERE THE NEW WATERLINE INSTALLATION DISTURBS EXISTING GRAVEL DRIVES, THE CONTRACTOR IS TO BLADE THE EXISTING DRIVE AND REPLACE WITH EXISTING GRAVEL UPON COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF METER ASSEMBLIES AND FIRE HYDRANTS WITH OWNER.
- DEFLECT PIPE AS NECESSARY TO MAINTAIN ALIGNMENT. PIPE DEFLECTION SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS.
- ALL HDPE-HDPE JOINTS AND FITTINGS SHALL BE BY BUTT FUSION IN ACCORDANCE WITH PLASTIC PIPE INSTITUTE'S TR-33. HDPE-DIP FITTINGS SHALL REQUIRE THE USE OF POLY-CAM 901 SERIES OR ENGINEER APPROVED EQUAL MJ ADAPTER TRANSITION. ALL FUSED AND MJ FITTINGS SHALL REQUIRE THE PLACEMENT OF THRUST BLOCKS PER DETAIL B2, SHEET CU502.
- ALL FITTINGS WITHIN 10 FEET OF SEWER LINE SHALL BE LEAN FILL ENCASED PER DETAIL C1, SHEET CU502
- ALL FITTINGS SHALL BE BUTT FUSED, SDR9 HDPE UNLESS OTHERWISE NOTED.

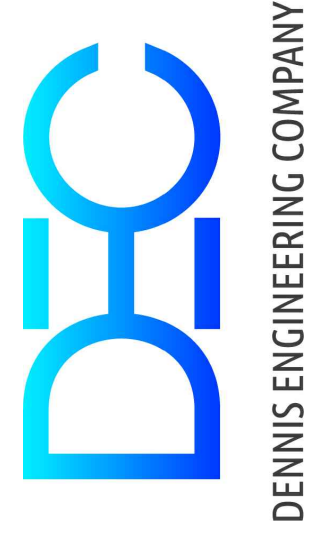
SHEET KEYED NOTES:

- APPROXIMATE LOCATION OF EXISTING 4" PVC WATERLINE (TO BE ABANDONED IN PLACE).
- APPROXIMATE LOCATION OF EXISTING 8" SANITARY SEWER LINE.
- APPROXIMATE LOCATION OF EXISTING 24" STORM DRAIN.
- APPROXIMATE LOCATION OF EXISTING BURIED TELECOMMUNICATION.
- APPROXIMATE LOCATION OF BURIED ELECTRIC.
- APPROXIMATE LOCATION OF BURIED NATURAL GAS.
- FURNISH & INSTALL NEW SDR9, DIPS HDPE WATERLINE.
- CONNECT TO EXISTING 8" WL EAST OF EXISTING TEE. FURNISH & INSTALL:  
1- MJ TEE  
2- MJ GATE VALVES (PAID SEPARATELY)  
COUPLINGS AND FITTINGS AS NEEDED.
- FURNISH & INSTALL 20LF LEAN FILL ENCASEMENT.
- FURNISH & INSTALL: FIRE HYDRANT ASSEMBLY.
- CONNECT TO EXISTING WATER SERVICE LINE. FURNISH & INSTALL NEW 3/4" TYPE "K" COPPER SERVICE LINE WITH INSULATION AND CURB STOP.
- EXISTING INSULATION FROST BARRIER TO REMAIN. IF INSULATION IS MISSING OR DAMAGED DURING CONSTRUCTION REPLACE WITH 2-LAYERS OF 2" THICK POLYSTYRENE FROST BARRIER INSULATION (PAID UNDER BID ITEM 801.208)
- TRANSITION WATERLINE TO 18" MIN BENEATH EXISTING SAS TO PREVENT HIGH POINT IN WATERLINE.

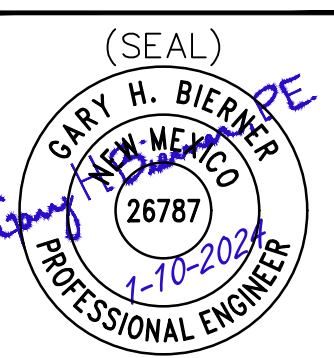
NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT

DESIGN: DEC  
DRAWN: JTK  
CHECKED: TJM, GHG  
DATE: 8-9-2023  
REV: 1-10-2024  
REV:  
REV:

PROJECT  
VILLAGE OF TAOS SKI VALLEY  
PHOENIX SWITCHBACK  
WATERLINE REPLACEMENT

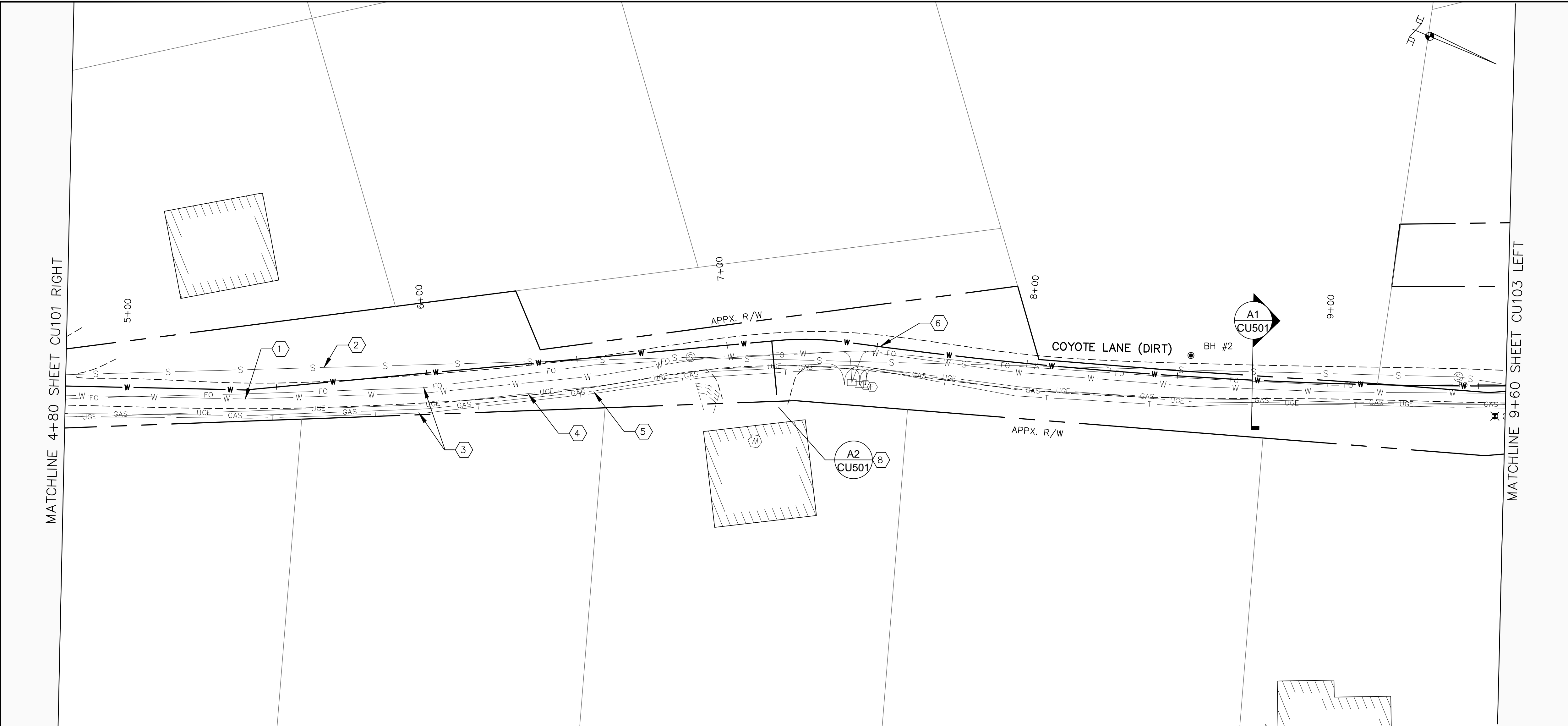


TITLE  
PLAN & PROFILE  
STA. 0+00 TO 4+80

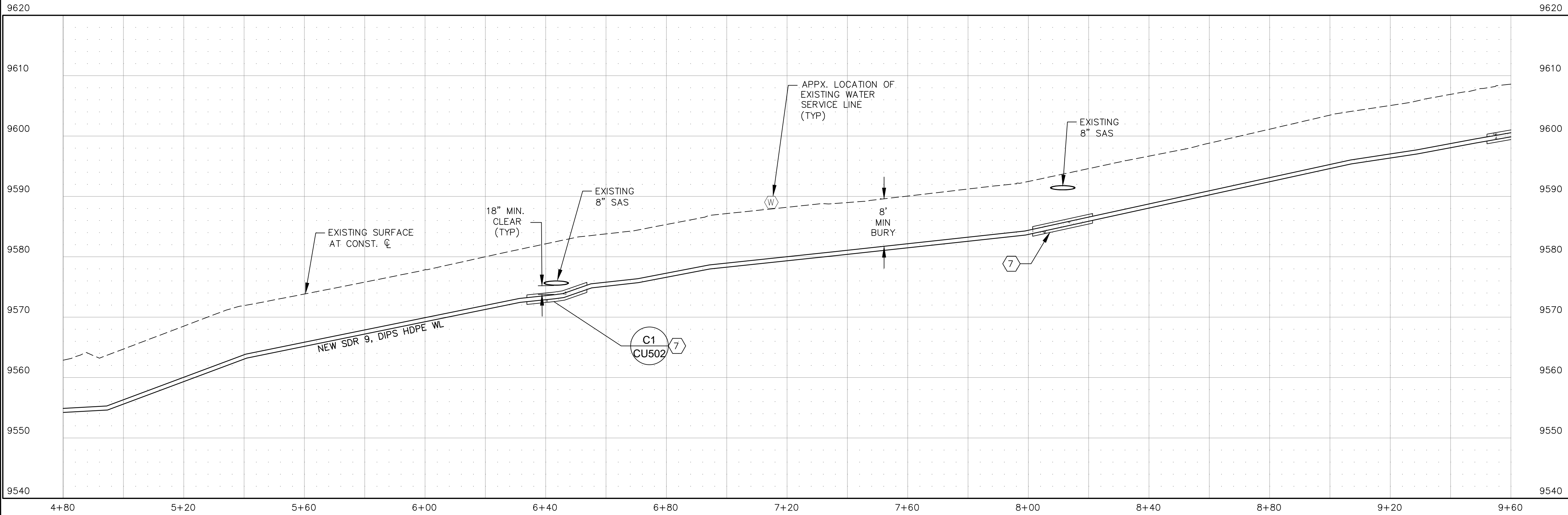


SHEET  
CU101





PLAN & PROFILE  
STA. 4+80 TO 9+60  
1"=20' HORIZ. 1"=40' HORIZ.  
1"=10' VERT. 1"=20' VERT.  
(24"x36") (12"x18")



SHEET GENERAL NOTES:

- ALL WATER UTILITY INSTALLATION SHALL BE IN CONFORMANCE WITH DEC SUPPLEMENTAL SPECIFICATION 801.
- CONTRACTOR SHALL MAINTAIN WATER SERVICE THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL BURY NEW WATERLINE A MINIMUM OF 8'.
- EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY THE RESPECTIVE UTILITY OWNERS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTHS OF EXISTING UTILITIES AS NECESSARY TO COMPLETE THE IMPROVEMENTS SHOWN.
- CONTRACTOR SHALL PROTECT AND MAINTAIN POWER POLES DURING WATERLINE INSTALLATION, AS NECESSARY.
- ROADWAYS AND DRAINAGE SWALES SHALL BE RE-GRADED TO THEIR ORIGINAL SHAPE AS REQUIRED.
- WHERE THE NEW WATERLINE INSTALLATION DISTURBS EXISTING GRAVEL DRIVES, THE CONTRACTOR IS TO BLADE THE EXISTING DRIVE AND REPLACE WITH EXISTING GRAVEL UPON COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF METER ASSEMBLIES AND FIRE HYDRANTS WITH OWNER.
- DEFLECT PIPE AS NECESSARY TO MAINTAIN ALIGNMENT. PIPE DEFLECTION SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS.
- ALL HDPE-HDPE JOINTS AND FITTINGS SHALL BE BY BUTT FUSION IN ACCORDANCE WITH PLASTIC PIPE INSTITUTE'S TR-33. HDPE-DIP FITTINGS SHALL REQUIRE THE USE OF POLY-CAM 901 SERIES OR ENGINEER APPROVED EQUAL MJ ADAPTER TRANSITION. ALL FUSED AND MJ FITTINGS SHALL REQUIRE THE PLACEMENT OF THRUST BLOCKS PER DETAIL B2, SHEET CU502.
- ALL FITTINGS WITHIN 10 FEET OF SEWER LINE SHALL BE LEAN FILL ENCASED PER DETAIL C1, SHEET CU502
- ALL FITTINGS SHALL BE BUTT FUSED, SDR9 HDPE UNLESS OTHERWISE NOTED.

SHEET KEYED NOTES:

- APPROXIMATE LOCATION OF EXISTING 4" PVC WATERLINE (TO BE ABANDONED IN PLACE).
- APPROXIMATE LOCATION OF EXISTING 8" SANITARY SEWER LINE.
- APPROXIMATE LOCATION OF EXISTING BURIED TELECOMMUNICATION.
- APPROXIMATE LOCATION OF BURIED ELECTRIC.
- APPROXIMATE LOCATION OF BURIED NATURAL GAS.
- FURNISH & INSTALL NEW SDR9, DIPS HDPE WATERLINE.
- FURNISH & INSTALL 20LF LEAN FILL ENCASEMENT.
- CONNECT TO EXISTING WATER SERVICE LINE. FURNISH & INSTALL NEW 3/4" TYPE "K" COPPER SERVICE LINE WITH INSULATION AND CURB STOP.

DESIGN: DEC
DRAWN: JTK
CHECKED: TJM, GHB
DATE: 8-9-2023
REV: 1-10-2024
REV:
REV:

PROJECT  
VILLAGE OF TAOS SKI VALLEY  
PHOENIX SWITCHBACK  
WATERLINE REPLACEMENT



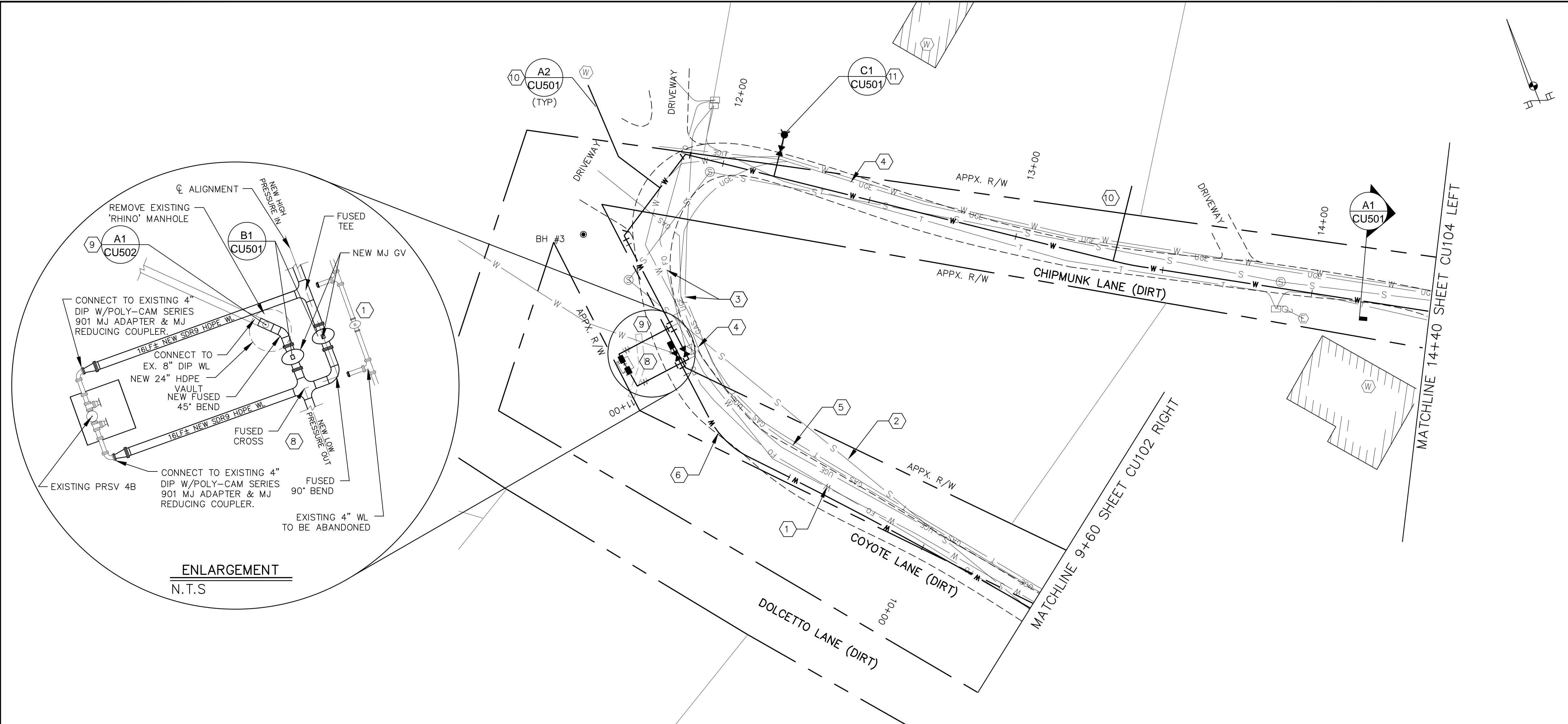
TITLE  
PLAN & PROFILE  
STA. 4+80 TO 9+60



SHEET  
CU102

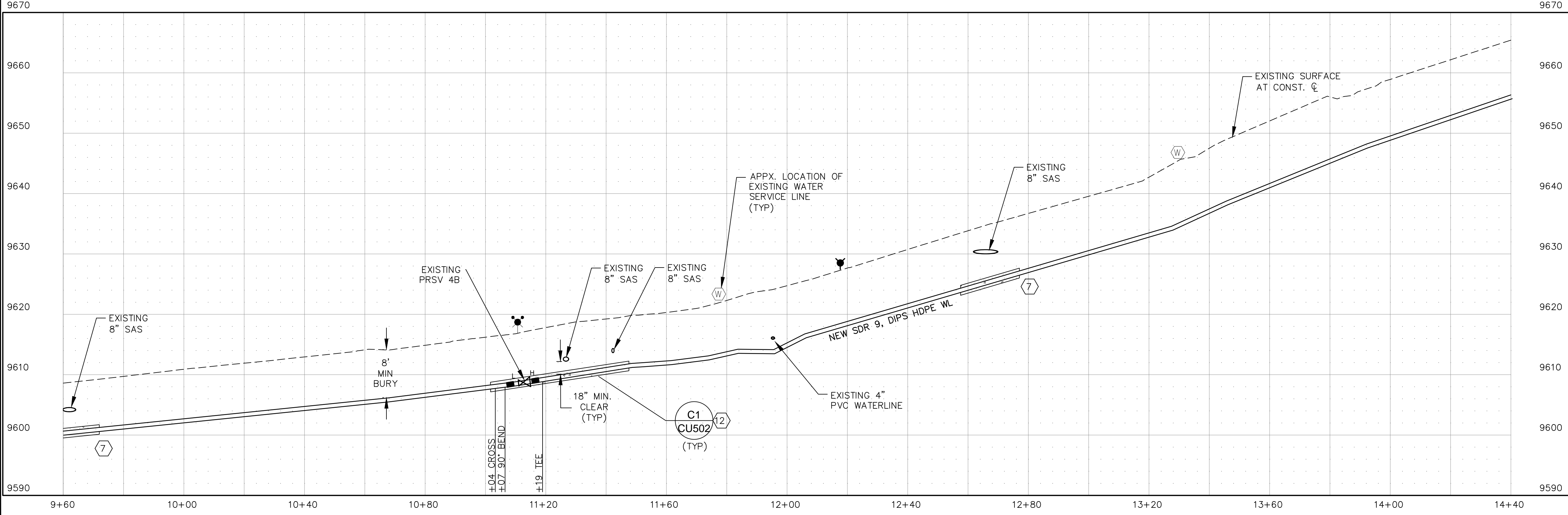
NOTICE OF EXTENDED PAYMENT PROVISION – THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT





PLAN & PROFILE  
STA. 9+60 TO 14+40

1"=20' HORIZ. 1"=40' HORIZ.  
1"=10' VERT. 1"=20' VERT.  
(24"x36") (12"x18")



SHEET GENERAL NOTES:

- ALL WATER UTILITY INSTALLATION SHALL BE IN CONFORMANCE WITH DEC SUPPLEMENTAL SPECIFICATION 801.
- CONTRACTOR SHALL MAINTAIN WATER SERVICE THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL BURY NEW WATERLINE A MINIMUM OF 8'.
- EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY THE RESPECTIVE UTILITY OWNERS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTHS OF EXISTING UTILITIES AS NECESSARY TO COMPLETE THE IMPROVEMENTS SHOWN.
- CONTRACTOR SHALL PROTECT AND MAINTAIN POWER POLES DURING WATERLINE INSTALLATION, AS NECESSARY.
- ROADWAYS AND DRAINAGE SWALES SHALL BE RE-GRADED TO THEIR ORIGINAL SHAPE AS REQUIRED.
- WHERE THE NEW WATERLINE INSTALLATION DISTURBS EXISTING GRAVEL DRIVES, THE CONTRACTOR IS TO BLADE THE EXISTING DRIVE AND REPLACE WITH EXISTING GRAVEL UPON COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF METER ASSEMBLIES AND FIRE HYDRANTS WITH OWNER.
- DEFLECT PIPE AS NECESSARY TO MAINTAIN ALIGNMENT. PIPE DEFLECTION SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS.
- ALL HDPE-HDPE JOINTS AND FITTINGS SHALL BE BY BUTT FUSION IN ACCORDANCE WITH PLASTIC PIPE INSTITUTE'S TR-33. HDPE-DIP FITTINGS SHALL REQUIRE THE USE OF POLY-CAM 901 SERIES OR ENGINEER APPROVED EQUAL MJ ADAPTER TRANSITION. ALL FUSED AND MJ FITTINGS SHALL REQUIRE THE PLACEMENT OF THRUST BLOCKS PER DETAIL B2, SHEET CU502.
- ALL FITTINGS WITHIN 10 FEET OF SEWER LINE SHALL BE LEAN FILL ENCASED PER DETAIL C1, SHEET CU502.
- ALL FITTINGS SHALL BE BUTT FUSED, SDR9 HDPE UNLESS OTHERWISE NOTED.

SHEET KEYED NOTES:

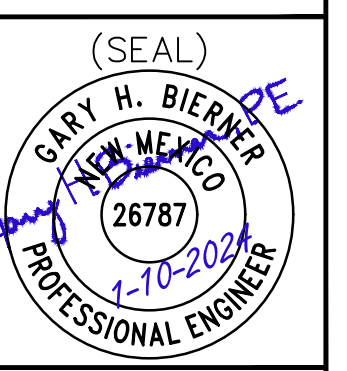
- APPROXIMATE LOCATION OF EXISTING 4" PVC WATERLINE (TO BE ABANDONED IN PLACE).
- APPROXIMATE LOCATION OF EXISTING 8" SANITARY SEWER LINE.
- APPROXIMATE LOCATION OF EXISTING BURIED TELECOMMUNICATION.
- APPROXIMATE LOCATION OF BURIED ELECTRIC.
- APPROXIMATE LOCATION OF BURIED NATURAL GAS.
- FURNISH & INSTALL NEW SDR9, DIPS HDPE WATERLINE.
- FURNISH & INSTALL 20LF LEAN FILL ENCASEMENT.
- CONNECT TO EXISTING PRESSURE REDUCING VALVE AT VAULT. FURNISH & INSTALL:
  - 2- MJ GATE VALVE (PAID SEPARATELY)
  - 1- 90° FUSED BEND
  - 1- FUSED TEE
  - 1- FUSED CROSS
  - 1- MJ CAP
  - 2- 4" MJ CAP
  - 32LF± SDR9, DIPS HDPE WL
  - COUPLINGS AND FITTINGS AS NEEDED.
- CONNECT TO EXISTING 8" DIP WL. FURNISH & INSTALL:
  - 1- FUSED 45° BEND
  - 1- 24"x96" HDPE VAULT
  - RECONNECT EXISTING AIR RELEASE VALVE.
- CONNECT TO EXISTING WATER SERVICE LINE. FURNISH & INSTALL NEW 3/4" TYPE "K" COPPER SERVICE LINE WITH INSULATION AND CURB STOP.
- REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT. FURNISH AND INSTALL NEW FIRE HYDRANT ASSEMBLY.
- FURNISH & INSTALL 50LF LEAN FILL ENCASEMENT.

DESIGN: DEC  
DRAWN: JTK  
CHECKED: TJM, GHB  
DATE: 8-9-2023  
REV: 1-10-2024  
REV:

PROJECT  
VILLAGE OF TAOS SKI VALLEY  
PHOENIX SWITCHBACK  
WATERLINE REPLACEMENT



TITLE  
PLAN & PROFILE  
STA. 9+60 TO 14+40



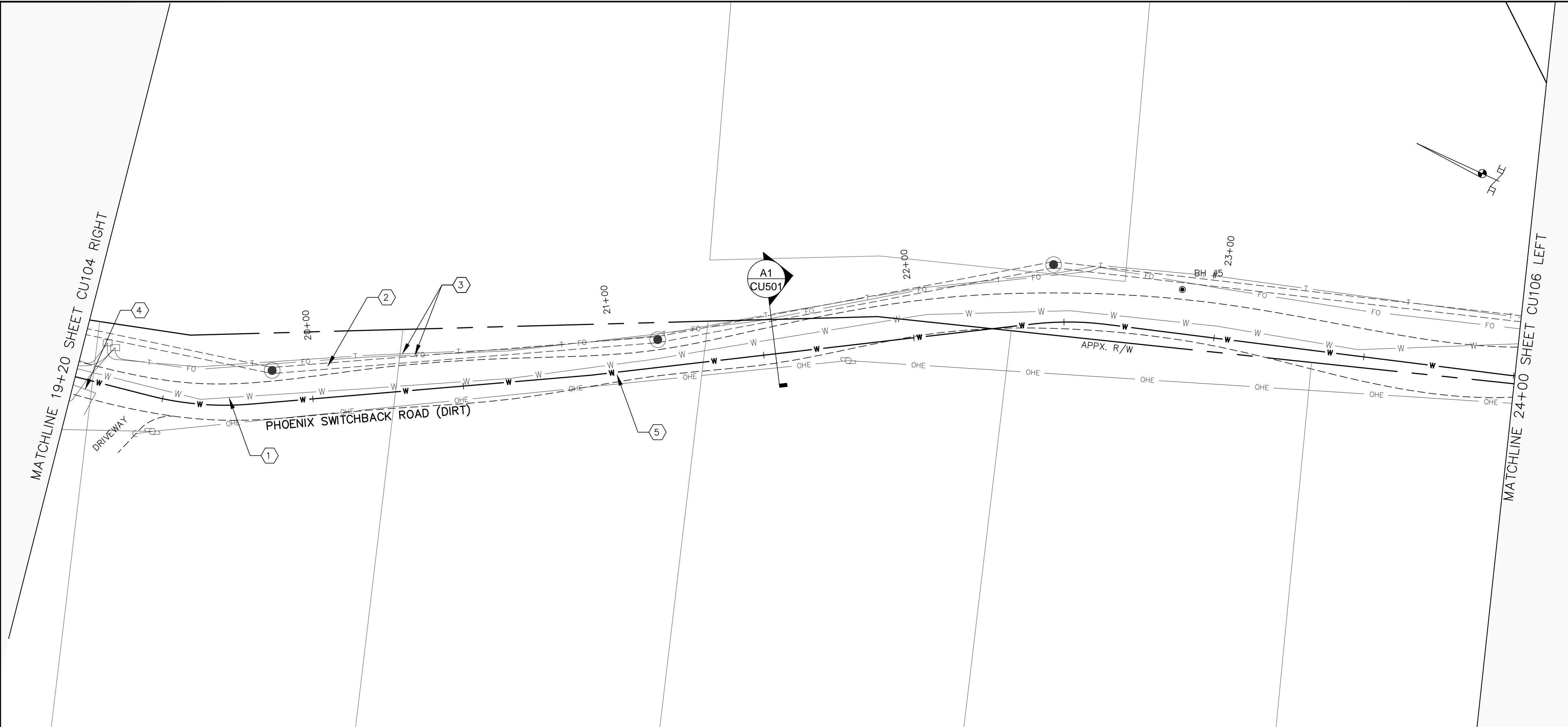
SHEET  
CU103

NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT

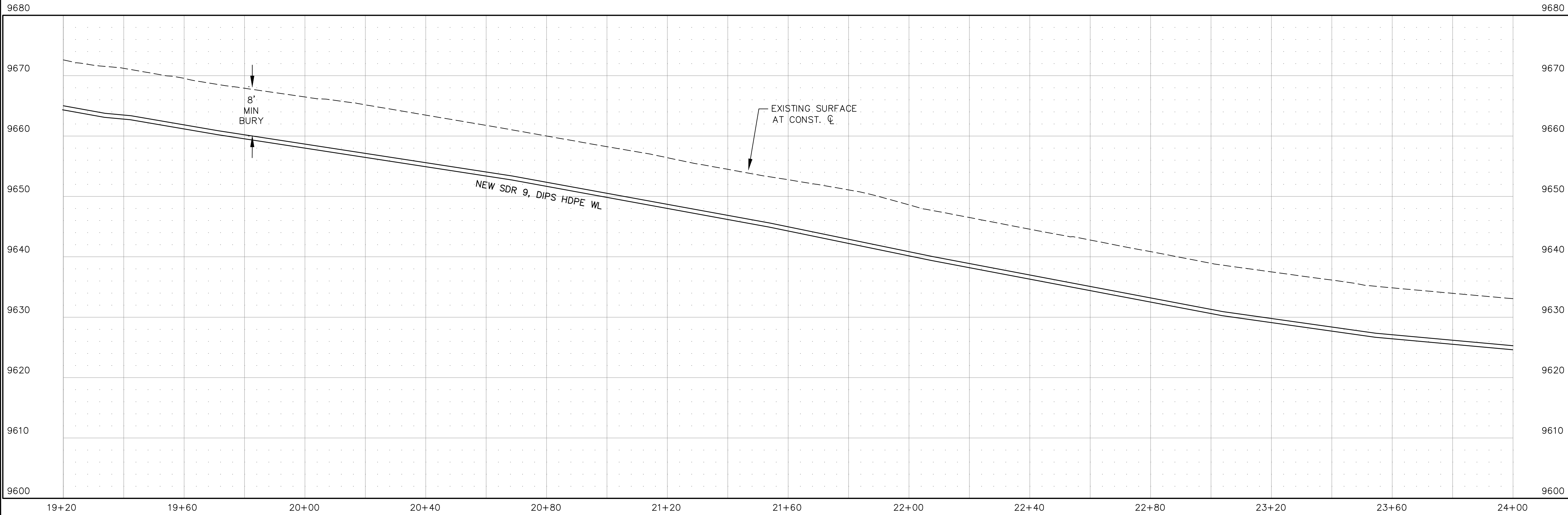








PLAN & PROFILE  
STA. 19+20 TO 24+00  
1"=20' HORIZ. 1"=40' HORIZ.  
1"=10' VERT. 1"=20' VERT.  
(24"x36") (12"x18")



SHEET GENERAL NOTES:

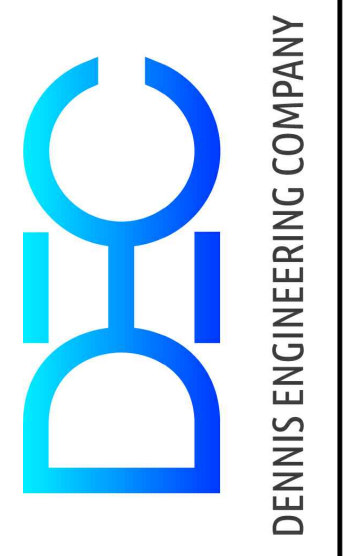
- ALL WATER UTILITY INSTALLATION SHALL BE IN CONFORMANCE WITH DEC SUPPLEMENTAL SPECIFICATION 801.
- CONTRACTOR SHALL MAINTAIN WATER SERVICE THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL BURY NEW WATERLINE A MINIMUM OF 8'.
- EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY THE RESPECTIVE UTILITY OWNERS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTHS OF EXISTING UTILITIES AS NECESSARY TO COMPLETE THE IMPROVEMENTS SHOWN.
- CONTRACTOR SHALL PROTECT AND MAINTAIN POWER POLES DURING WATERLINE INSTALLATION, AS NECESSARY.
- ROADWAYS AND DRAINAGE SWALES SHALL BE RE-GRADED TO THEIR ORIGINAL SHAPE AS REQUIRED.
- WHERE THE NEW WATERLINE INSTALLATION DISTURBS EXISTING GRAVEL DRIVES, THE CONTRACTOR IS TO BLADE THE EXISTING DRIVE AND REPLACE WITH EXISTING GRAVEL UPON COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF METER ASSEMBLIES AND FIRE HYDRANTS WITH OWNER.
- DEFLECT PIPE AS NECESSARY TO MAINTAIN ALIGNMENT. PIPE DEFLECTION SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS.
- ALL HDPE-HDPE JOINTS AND FITTINGS SHALL BE BY BUTT FUSION IN ACCORDANCE WITH PLASTIC PIPE INSTITUTE'S TR-33. HDPE-DIP FITTINGS SHALL REQUIRE THE USE OF POLY-CAM 901 SERIES OR ENGINEER APPROVED EQUAL MJ ADAPTER TRANSITION. ALL FUSED AND MJ FITTINGS SHALL REQUIRE THE PLACEMENT OF THRUST BLOCKS PER DETAIL B2, SHEET CU502.
- ALL FITTINGS WITHIN 10 FEET OF SEWER LINE SHALL BE LEAN FILL ENCASED PER DETAIL C1, SHEET CU502
- ALL FITTINGS SHALL BE BUTT FUSED, SDR9 HDPE UNLESS OTHERWISE NOTED.

SHEET KEYED NOTES:

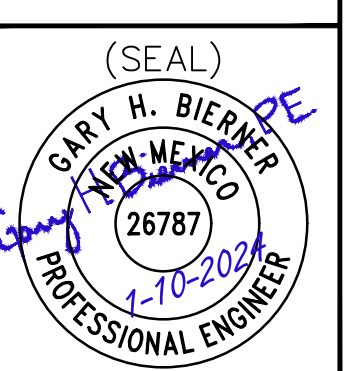
- APPROXIMATE LOCATION OF EXISTING 4" PVC WATERLINE (TO BE ABANDONED IN PLACE).
- APPROXIMATE LOCATION OF EXISTING 24" STORM DRAIN.
- APPROXIMATE LOCATION OF EXISTING BURIED TELECOMMUNICATION.
- APPROXIMATE LOCATION OF BURIED ELECTRIC.
- FURNISH AND INSTALL NEW SDR9, DIPS HDPE WATERLINE.

DESIGN: DEC
DRAWN: JTK
CHECKED: TJM, GHB
DATE: 8-9-2023
REV: 1-10-2024
REV:
REV:

PROJECT  
VILLAGE OF TAOS SKI VALLEY  
PHOENIX SWITCHBACK  
WATERLINE REPLACEMENT



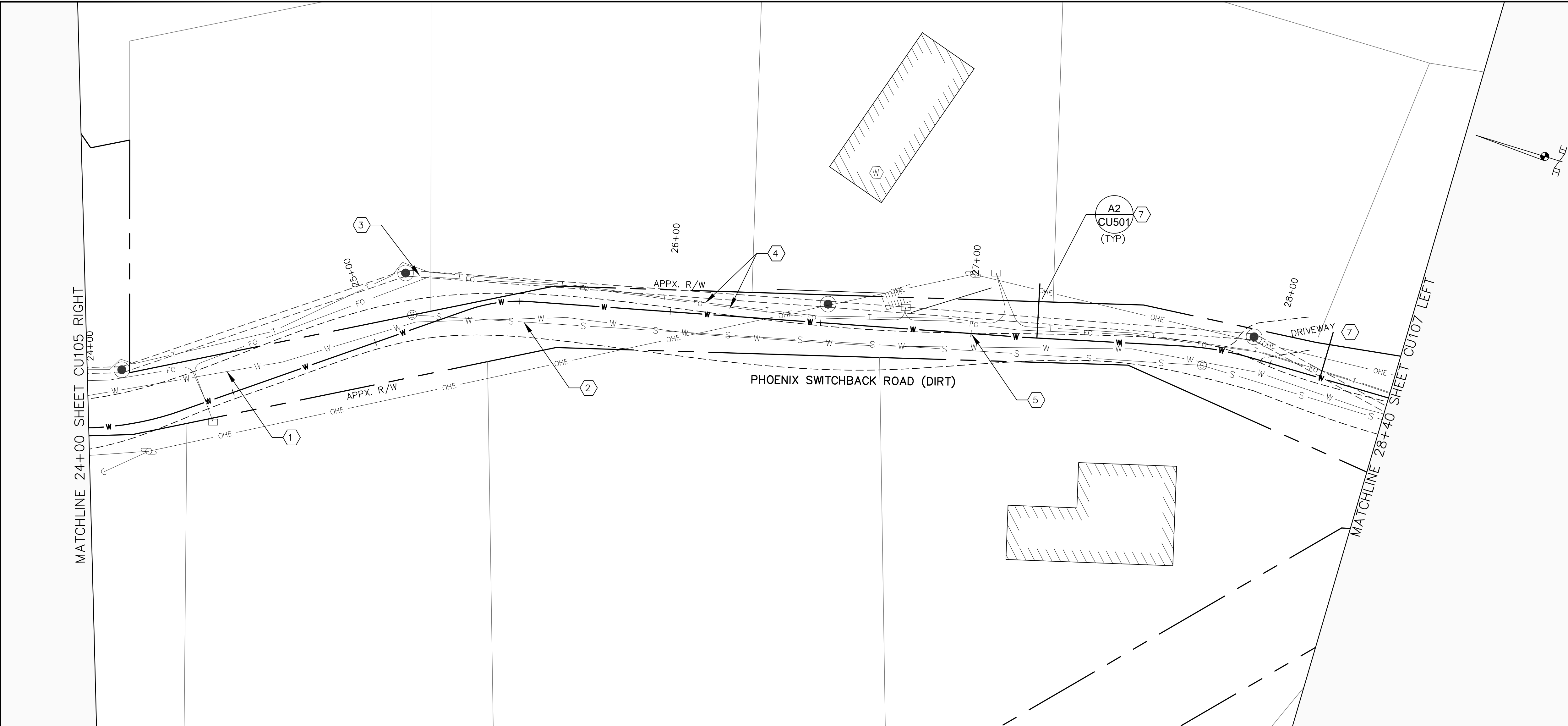
TITLE  
PLAN & PROFILE  
STA. 19+20 TO 24+00



SHEET  
CU105

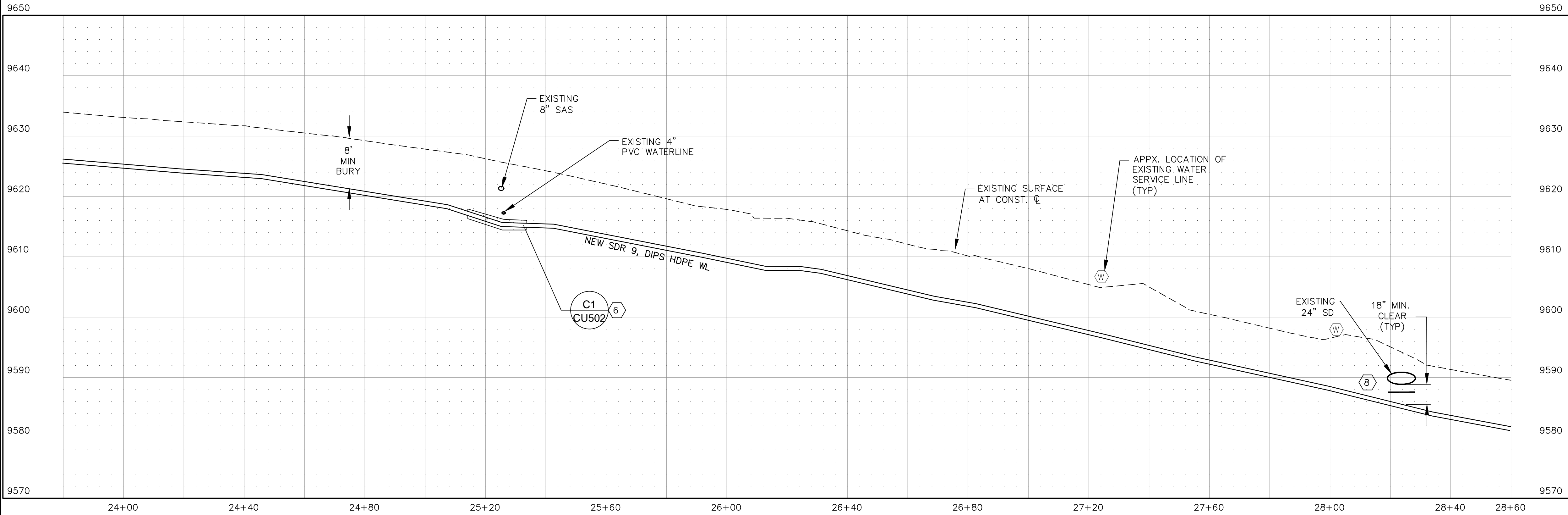
NOTICE OF EXTENDED PAYMENT PROVISION – THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT





PLAN & PROFILE  
STA. 24+00 TO 28+40

1"=20' HORIZ. 1"=40' HORIZ.  
1"=10' VERT. 1"=20' VERT.  
(24"x36") (12"x18")



## SHEET GENERAL NOTES:

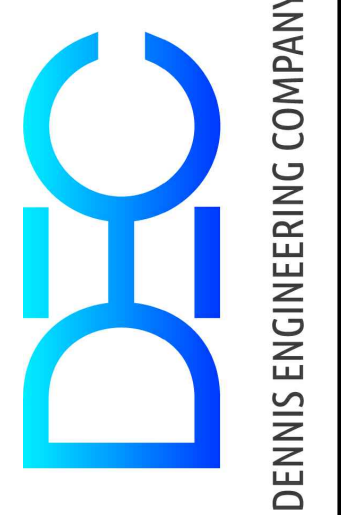
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- CONTRACTOR SHALL MAINTAIN WATER SERVICE THROUGHOUT CONSTRUCTION.
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- CONTRACTOR SHALL PROTECT AND MAINTAIN POWER POLES DURING WATERLINE INSTALLATION, AS NECESSARY.
- ROADWAYS AND DRAINAGE SWALES SHALL BE RE-GRADED TO THEIR ORIGINAL SHAPE AS REQUIRED.
- WHERE THE NEW WATERLINE INSTALLATION DISTURBS EXISTING GRAVEL DRIVES, THE CONTRACTOR IS TO BLADE THE EXISTING DRIVE AND REPLACE WITH EXISTING GRAVEL UPON COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF METER ASSEMBLIES AND FIRE HYDRANTS WITH OWNER.
- DEFLECT PIPE AS NECESSARY TO MAINTAIN ALIGNMENT. PIPE DEFLECTION SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS.
- ALL HDPE-HDPE JOINTS AND FITTINGS SHALL BE BY BUTT FUSION IN ACCORDANCE WITH PLASTIC PIPE INSTITUTE'S TR-33. HDPE-DIP FITTINGS SHALL REQUIRE THE USE OF POLY-CAM 901 SERIES OR ENGINEER APPROVED EQUAL MJ ADAPTER TRANSITION. ALL FUSED AND MJ FITTINGS SHALL REQUIRE THE PLACEMENT OF THRUST BLOCKS PER DETAIL B2, SHEET CU502.
- ALL FITTINGS WITHIN 10 FEET OF SEWER LINE SHALL BE LEAN FILL ENCASED PER DETAIL C1, SHEET CU502.
- ALL FITTINGS SHALL BE BUTT FUSED, SDR9 HDPE UNLESS OTHERWISE NOTED.

## SHEET KEYED NOTES:

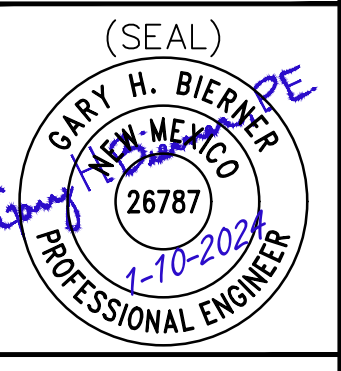
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- APPROXIMATE LOCATION OF EXISTING 8" SANITARY SEWER LINE.
- APPROXIMATE LOCATION OF EXISTING 24" STORM DRAIN.
- APPROXIMATE LOCATION OF EXISTING BURIED TELECOMMUNICATION.
- FURNISH AND INSTALL NEW SDR9, DIPS HDPE WATERLINE.
- FURNISH & INSTALL 20LF LEAN FILL ENCASEMENT.
- CONNECT TO EXISTING WATER SERVICE LINE. FURNISH & INSTALL NEW 3/4" TYPE "K" COPPER SERVICE LINE WITH INSULATION AND CURB STOP.
- EXISTING INSULATION FROST BARRIER TO REMAIN. IF INSULATION IS MISSING OR DAMAGED DURING CONSTRUCTION REPLACE WITH 2-LAYERS OF 2" THICK POLYSTYRENE FROST BARRIER INSULATION (PAID UNDER BID ITEM 801.208)

DESIGN: DEC  
DRAWN: JTK  
CHECKED: TJM, GHB  
DATE: 8-9-2023  
REV: 1-10-2024  
REV:  
REV:

PROJECT  
VILLAGE OF TAOS SKI VALLEY  
PHOENIX SWITCHBACK  
WATERLINE REPLACEMENT



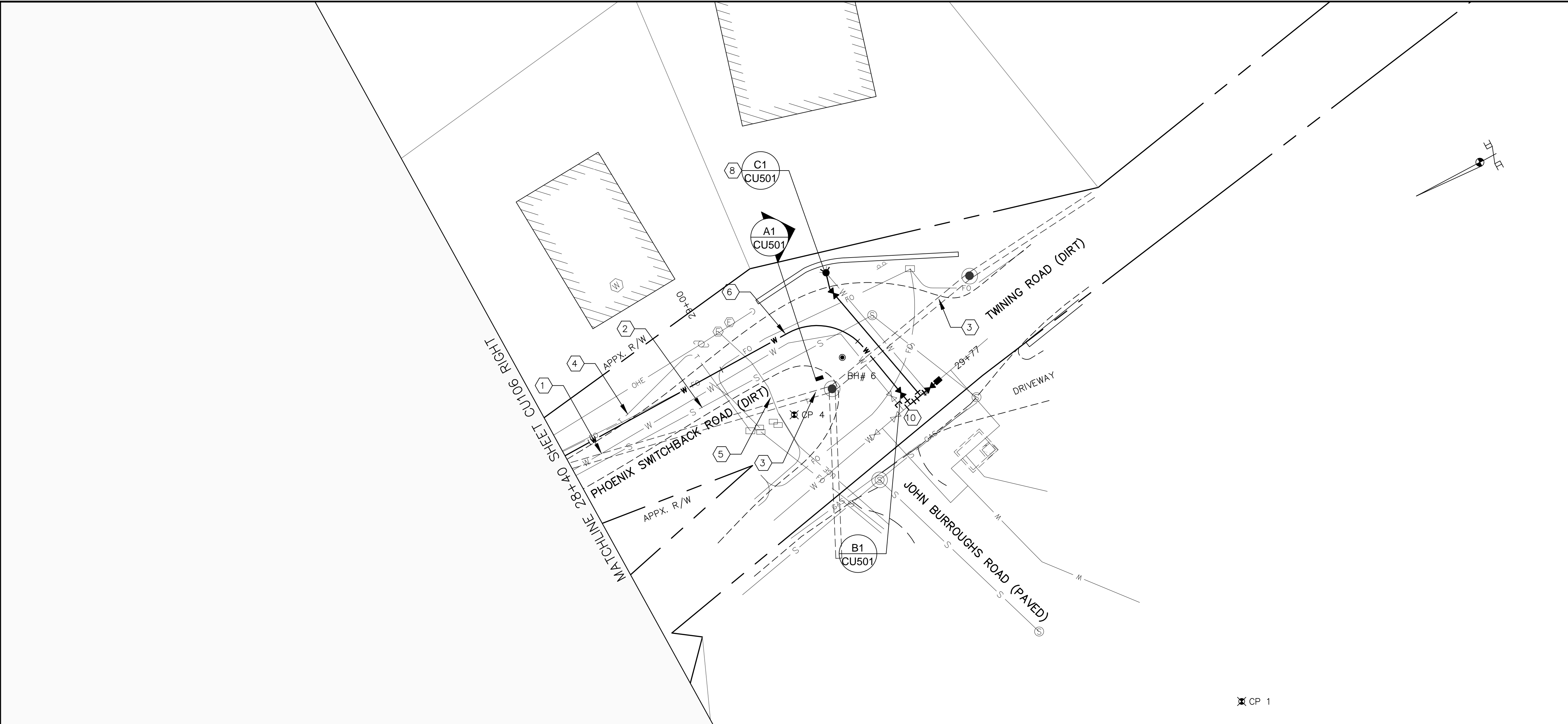
TITLE  
PLAN & PROFILE  
STA. 24+00 TO 28+40



SHEET  
CU106

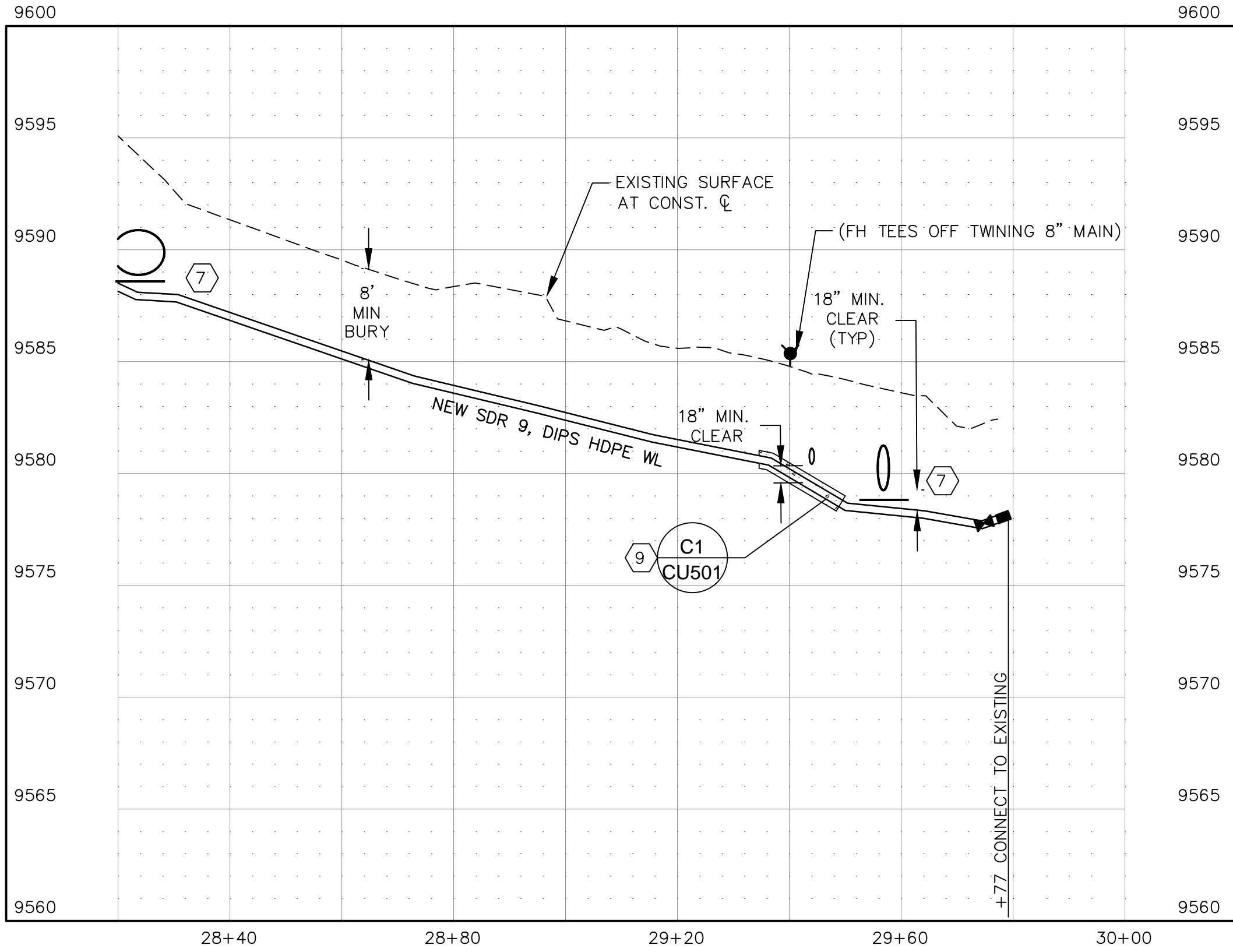
NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT





PLAN & PROFILE  
STA. 28+40 TO 29+82

1"=20' HORIZ. 1"=40' HORIZ.  
1"=10' VERT. 1"=20' VERT.  
(24"x36") (12"x18")



SHEET GENERAL NOTES:

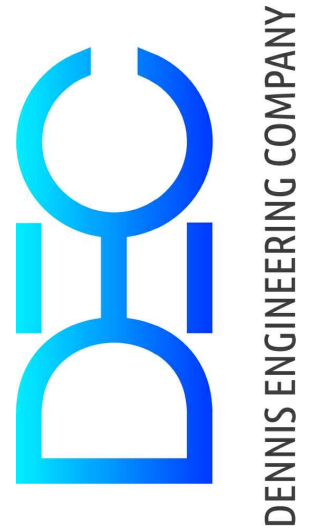
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- CONTRACTOR SHALL BURY NEW WATERLINE A MINIMUM OF 8'.
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- CONTRACTOR SHALL PROTECT AND MAINTAIN POWER POLES DURING WATERLINE INSTALLATION, AS NECESSARY.
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- THE CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF METER ASSEMBLIES AND FIRE HYDRANTS WITH OWNER.
- DEFLECT PIPE AS NECESSARY TO MAINTAIN ALIGNMENT. PIPE DEFLECTION SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS.
- ALL HDPE-HDPE JOINTS AND FITTINGS SHALL BE BY BUTT FUSION IN ACCORDANCE WITH PLASTIC PIPE INSTITUTE'S TR-33. HDPE-DIP FITTINGS SHALL REQUIRE THE USE OF POLY-CAM 901 SERIES OR ENGINEER APPROVED EQUAL MJ ADAPTER TRANSITION. ALL FUSED AND MJ FITTINGS SHALL REQUIRE THE PLACEMENT OF THRUST BLOCKS PER DETAIL B2, SHEET CU502.
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- ALL FITTINGS SHALL BE BUTT FUSED, SDR9 HDPE UNLESS OTHERWISE NOTED.

SHEET KEYED NOTES:

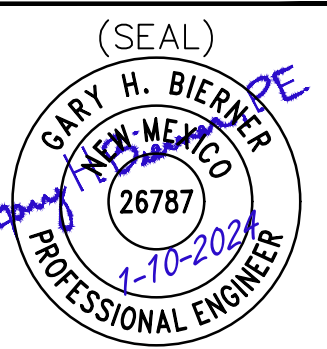
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- APPROXIMATE LOCATION OF EXISTING 24" STORM DRAIN.
- APPROXIMATE LOCATION OF EXISTING BURIED TELECOMMUNICATION.
- APPROXIMATE LOCATION OF BURIED ELECTRIC.
- FURNISH AND INSTALL NEW SDR9, DIPS HDPE WATERLINE.
- EXISTING INSULATION FROST BARRIER TO REMAIN. IF INSULATION IS MISSING OR DAMAGED DURING CONSTRUCTION REPLACE WITH 2-LAYERS OF 2" THICK POLYSTYRENE FROST BARRIER INSULATION (PAID UNDER BID ITEM 801.208)
- REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT. FURNISH AND INSTALL:
  - 1- FIRE HYDRANT ASSEMBLY
  - 1- 8"x6" MJ TEE
  - 1- 6" MJ VALVE
  - 52LF 6" HDPE SDR 9 WATERLINE
  - COUPLINGS AND FITTINGS AS NEEDED.
- FURNISH & INSTALL 20LF LEAN FILL ENCASEMENT.
- CONNECT TO EXISTING 8" PVC WL SOUTH OF EXISTING TEE. FURNISH & INSTALL:
  - 1- MJ TEE
  - 2- MJ GATE VALVES (PAID SEPARATELY)
  - 1- 4" MJ CAP
  - COUPLINGS AND FITTINGS AS NEEDED.

DESIGN: DEC  
DRAWN: JTK  
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DATE: 8-9-2023  
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REV:  
REV:

PROJECT  
VILLAGE OF TAOS SKI VALLEY  
PHOENIX SWITCHBACK  
WATERLINE REPLACEMENT



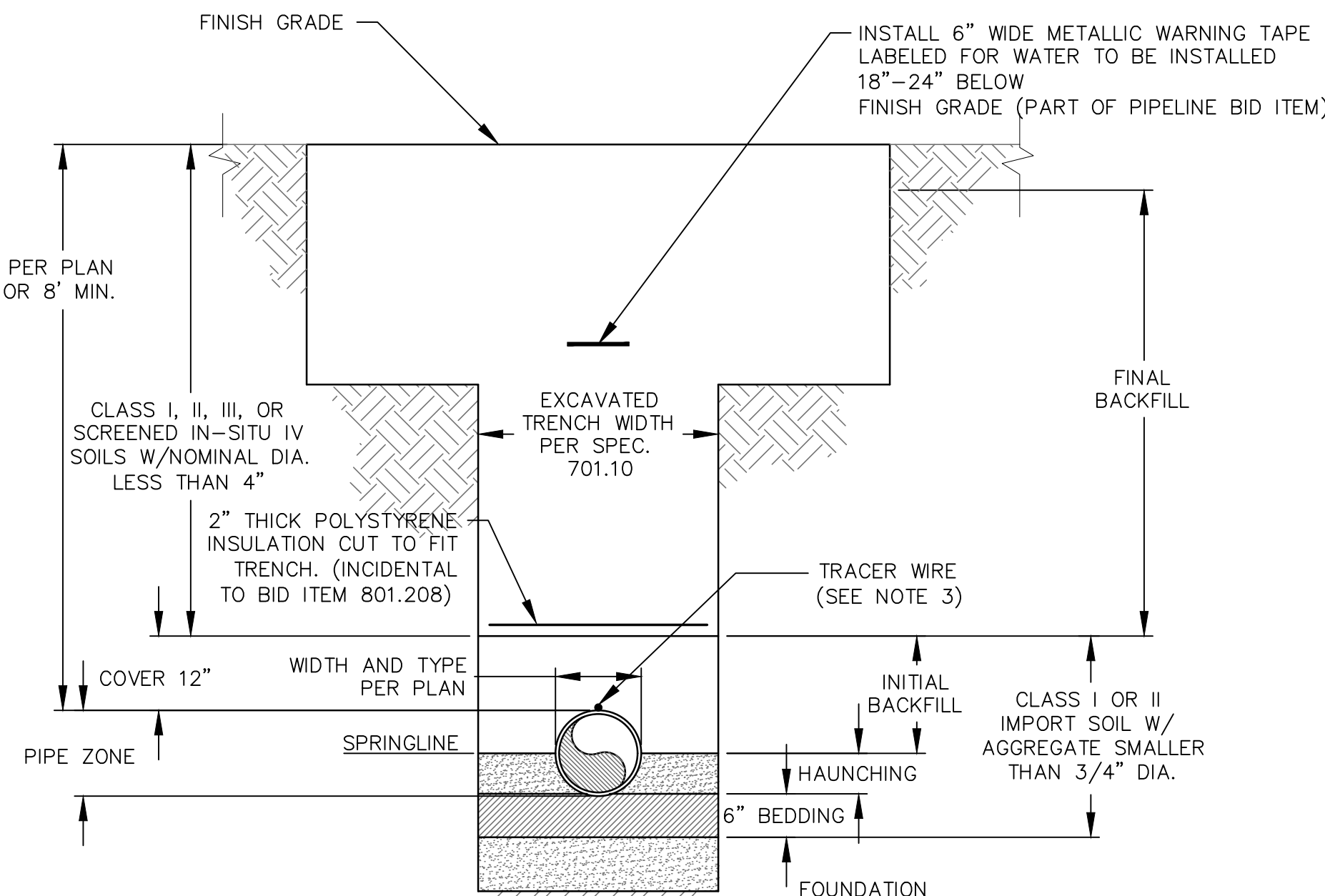
TITLE  
PLAN & PROFILE  
STA. 28+40 TO 29+82



SHEET  
CU107

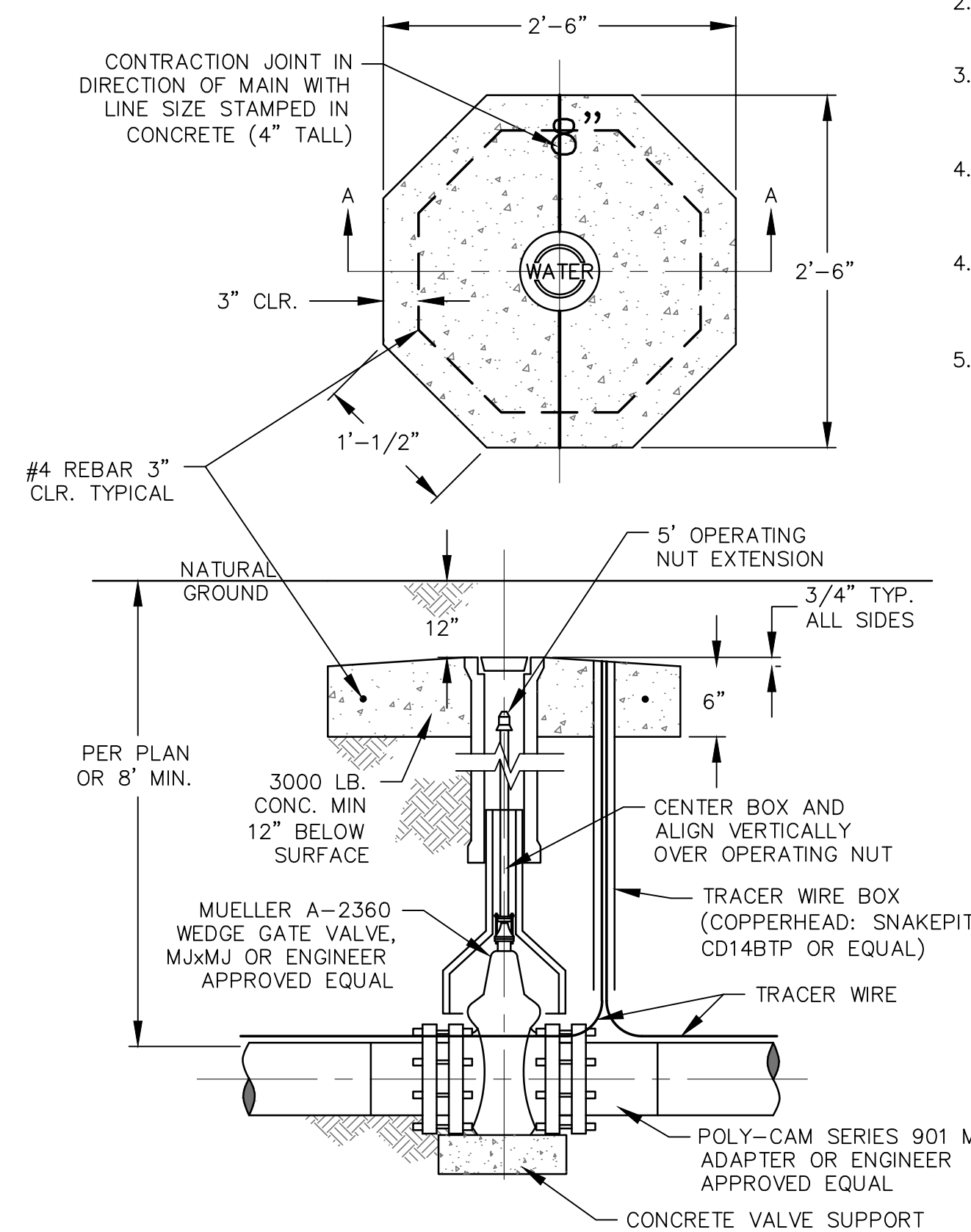
NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT





- NOTES:**
- TRENCH SAFETY SHALL BE IN ACCORDANCE TO NMSSPW SPECIFICATION 701.5.
  - CLASS V SOILS ARE NOT ACCEPTABLE IN FINAL BACKFILL.
  - 12 GA. DIRECT BURY, COPPER CLAD STEEL, HDPE INSULATED, TRACER WIRE TO BE ATTACHED TO TOP CENTER OF NEW WATERLINE. ATTACH WITH 2" WIDE DUCT TAPE AT DISTANCES NOT GREATER THAN 8' INTERVALS. COLOR TO CONFORM WITH APWA UNIFORM COLOR CODE.
  - ALL METAL FITTINGS AND PIPING EXPOSED TO LOCAL SOILS SHALL BE WRAPPED WITH A POLYETHYLENE LINER (MINIMUM THICKNESS OF 8 MILS) PRIOR TO BACKFILLING.
  - CE 2" INSULATION ABOVE THE INITIAL BACKFILL WITH SELECT FILL ABOVE TO PROTECT THE INSULATION.
  - CLASS I OR II IMPORT IS AVAILABLE FROM TAOS SKI VALLEY, INC AT NO COST TO THE CONTRACTOR.

**A1** TYPICAL DEEP TRENCH SECTION  
SCALE: NONE



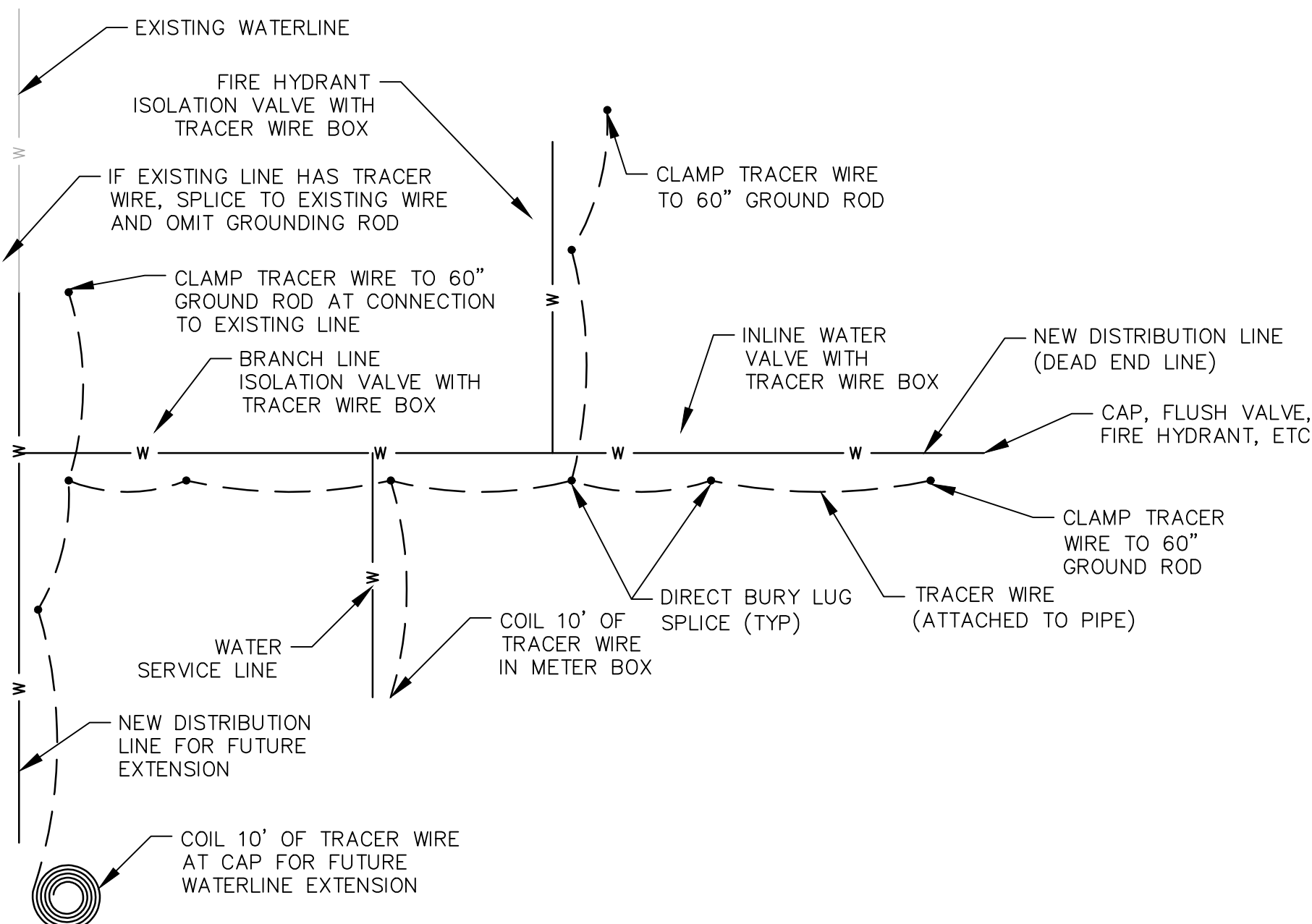
**B1** UTILITY VALVE W/TRACER WIRE DETAIL  
SCALE: NONE

VALVE SUPPORT TABLE				
VALVE SIZE	A	B	C	D
4"	10"	20"	4"	6"
6"	10"	20"	4"	6"
8"	12"	22"	4"	8"
10"	14"	24"	4"	8"
12"	16"	26"	4"	8"

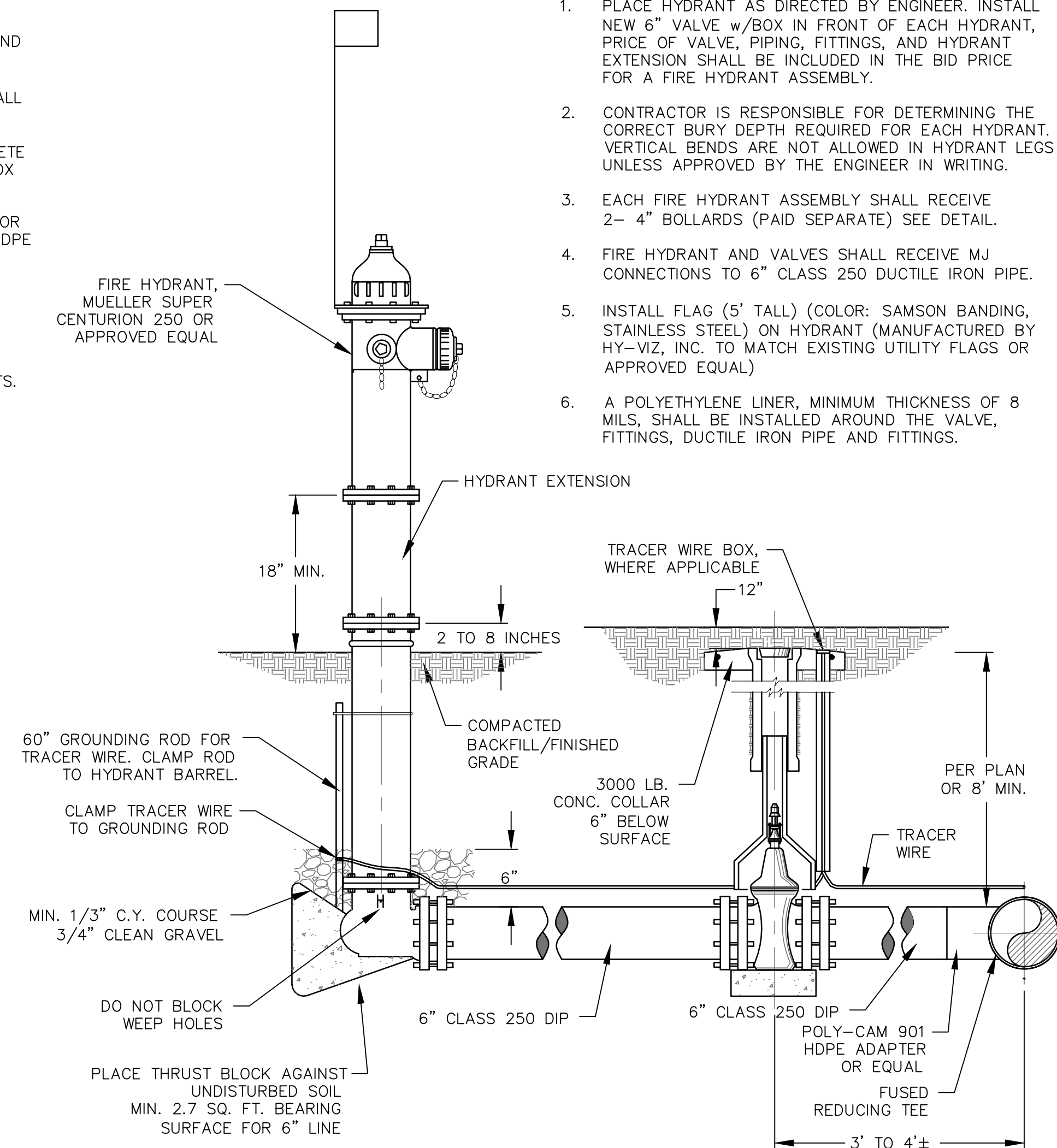
**CONCRETE VALVE SUPPORT DETAILS**  
SCALE: NONE

**TRACER WIRE INSTALLATION NOTES:**

- TRACER WIRE SHOULD BE CONTINUOUS THROUGH TEES, BENDS, AND COUPLINGS WHENEVER POSSIBLE.
- TRACER WIRE SHALL BE THE SIZE AND TYPE INDICATED ON THE TYPICAL TRENCH SECTION(S).
- PROVIDE TRACER WIRE BOXES WITH ADEQUATE NUMBER OF LUGS, OR SPLICE WIRE WITH DIRECT BURY LUG AND CONNECT TO TRACER WIRE BOX LID.
- PROVIDE 3' OF WIRE SLACK IN TRACER BOXES MEASURED FROM THE TOP OF THE TRACER WIRE BOX.
- SPLICE WIRES WITH AN APPROVED CONNECTOR AND LOOSE KNOT FOR STRAIN RELIEF.
- LUGS, WIRE NUTS, AND OTHER CONNECTING DEVICES SHALL BE DESIGNED FOR TRACER WIRE APPLICATIONS AND FOR DIRECT BURY. PRE-APPROVED MANUFACTURERS INCLUDE; COPPERHEAD, KING INNOVATION, AND 3M.

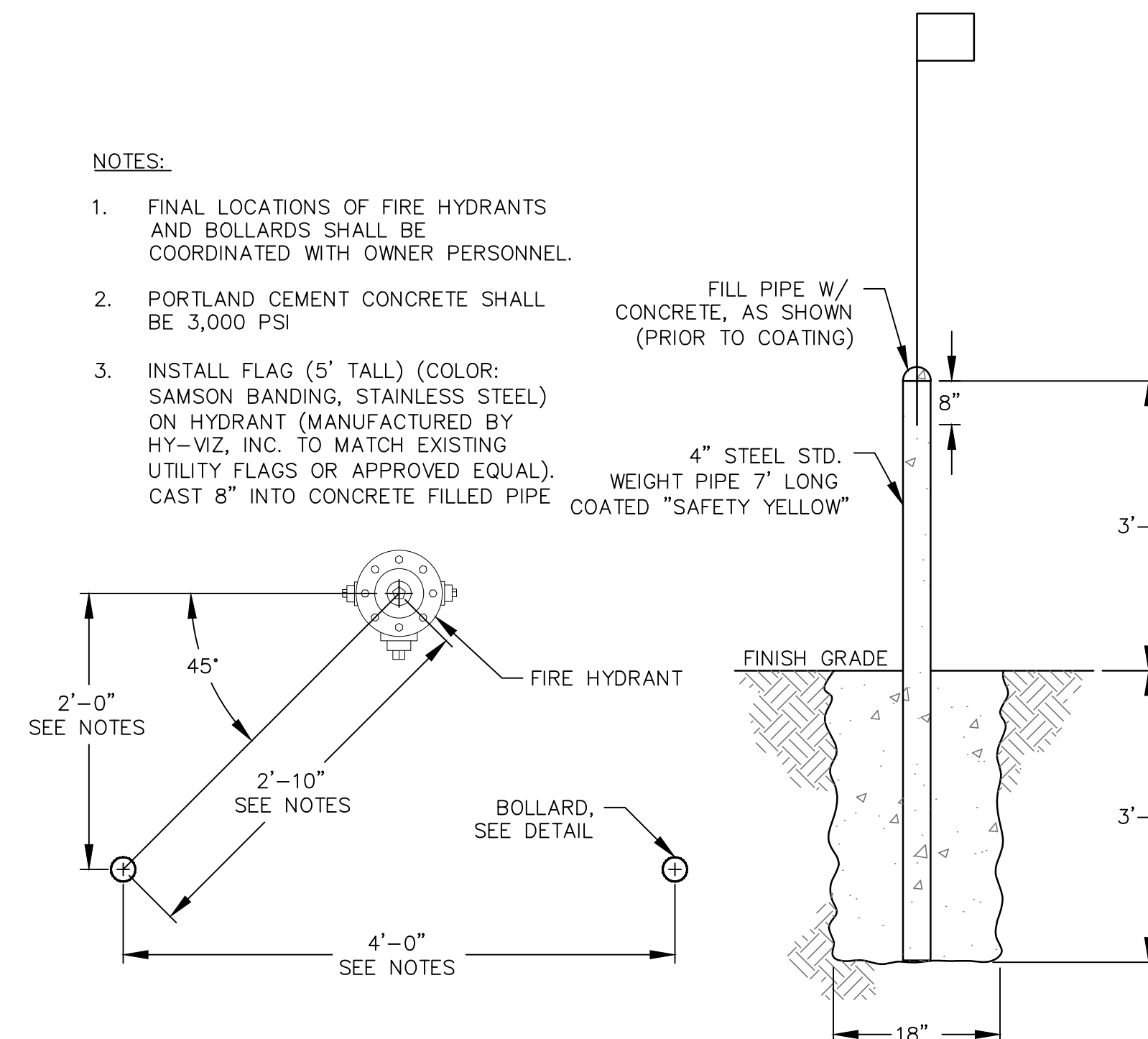


**B2** TYPICAL TRACER WIRE INSTALLATION DETAIL  
SCALE: NONE

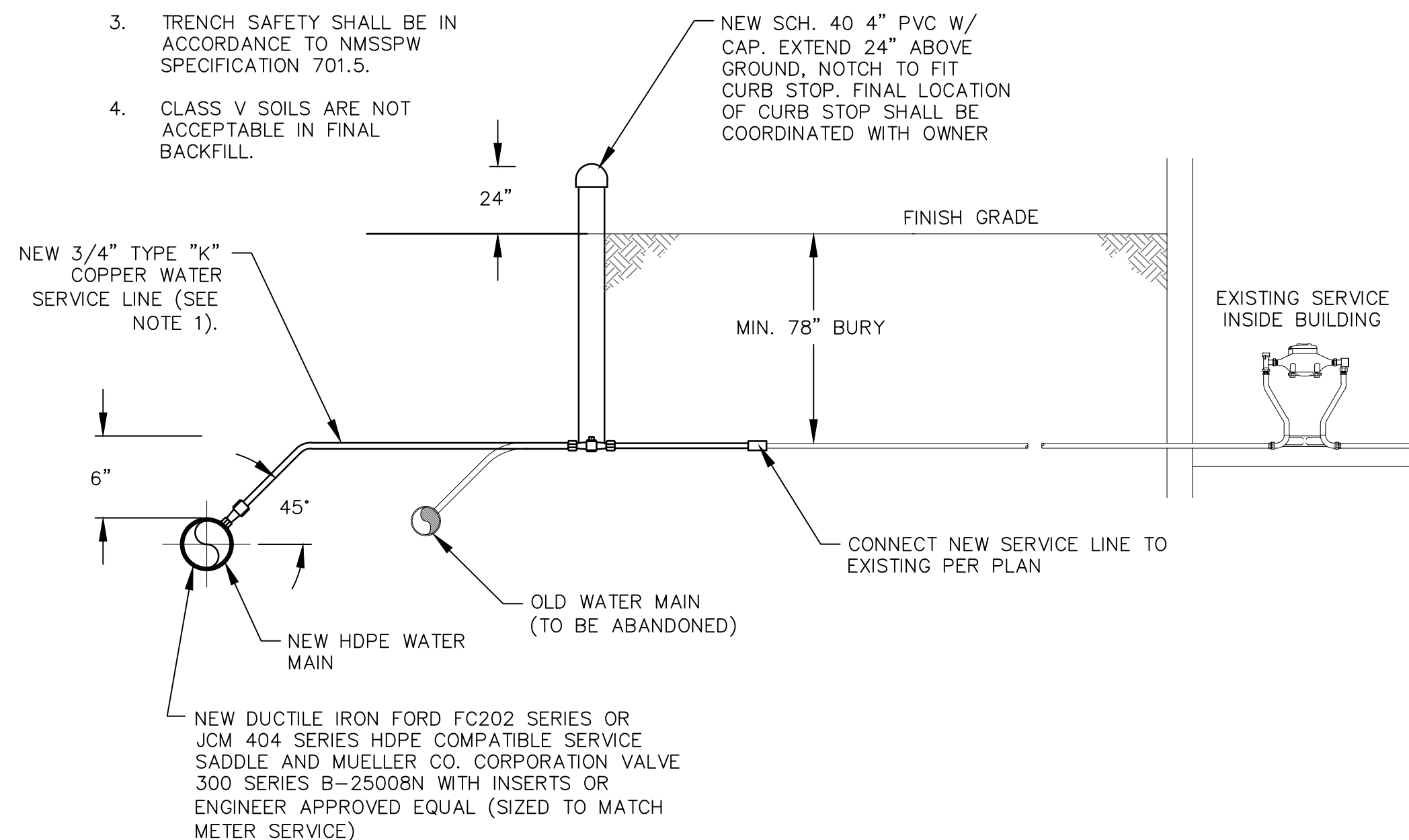


**C1** TYPICAL FIRE HYDRANT ASSEMBLY WITH TRACER WIRE DETAIL  
SCALE: NO SCALE

- NOTES:**
- FINAL LOCATIONS OF FIRE HYDRANTS AND BOLLARDS SHALL BE COORDINATED WITH OWNER PERSONNEL.
  - PORTLAND CEMENT CONCRETE SHALL BE 3,000 PSI
  - INSTALL FLAG (5' TALL) (COLOR: SAMSON BANDING, STAINLESS STEEL) ON HYDRANT (MANUFACTURED BY HY-VIZ, INC. TO MATCH EXISTING UTILITY FLAGS OR APPROVED EQUAL). CAST 8" INTO CONCRETE FILLED PIPE



**C2** TYPICAL BOLLARD DETAIL  
SCALE: NONE



**A2** TYPICAL METER TRANSFER DETAIL  
SCALE: NONE

NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT

DESIGN: DEC  
DRAWN: JTK  
CHECKED: TJM, GHB  
DATE: 8-9-2023  
REV:  
REV:

PROJECT  
VILLAGE OF TAOS SKI VALLEY  
PHOENIX SWITCHBACK  
WATERLINE REPLACEMENT

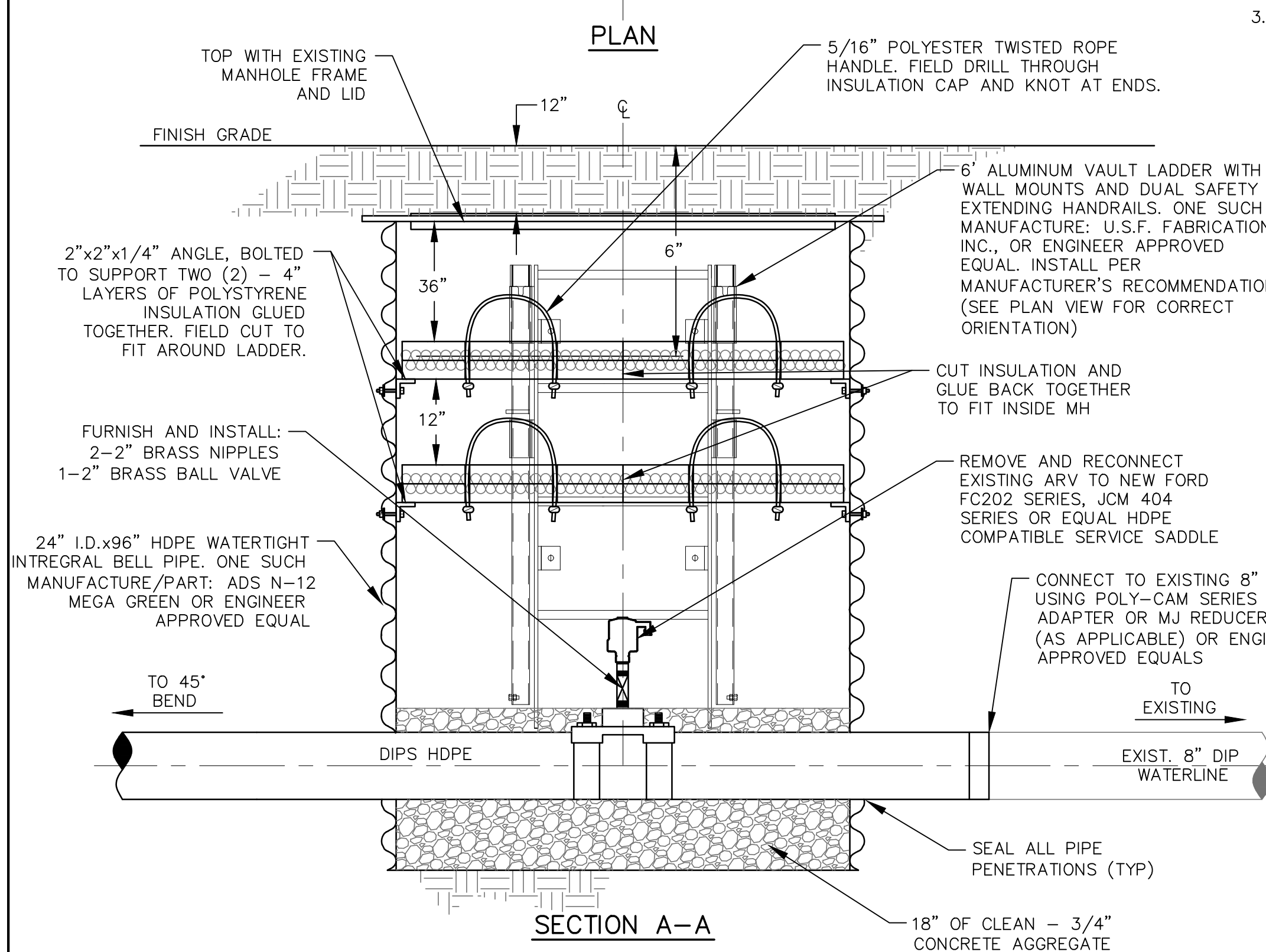
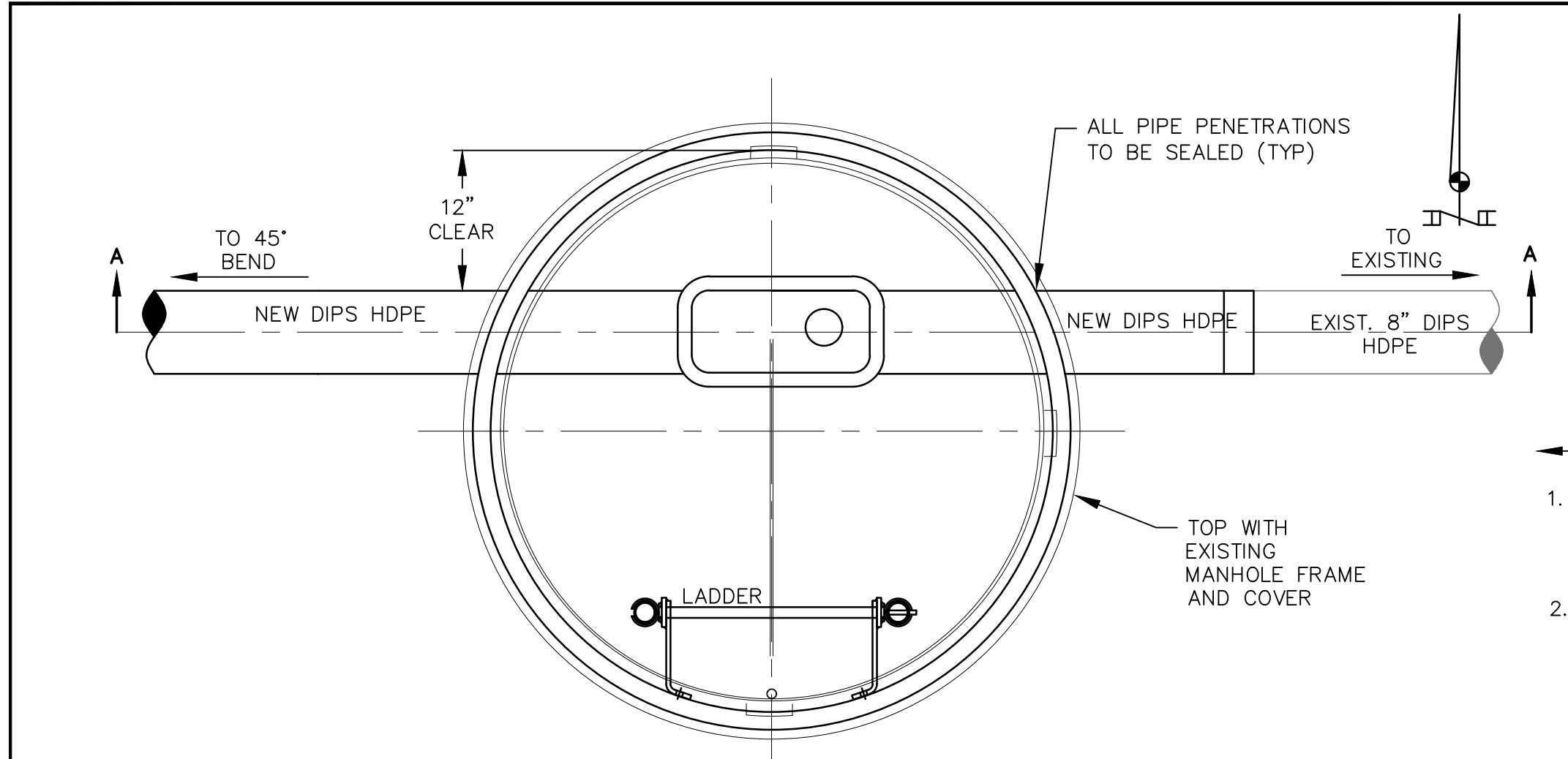
DENNIS ENGINEERING COMPANY

TITLE  
UTILITY DETAILS

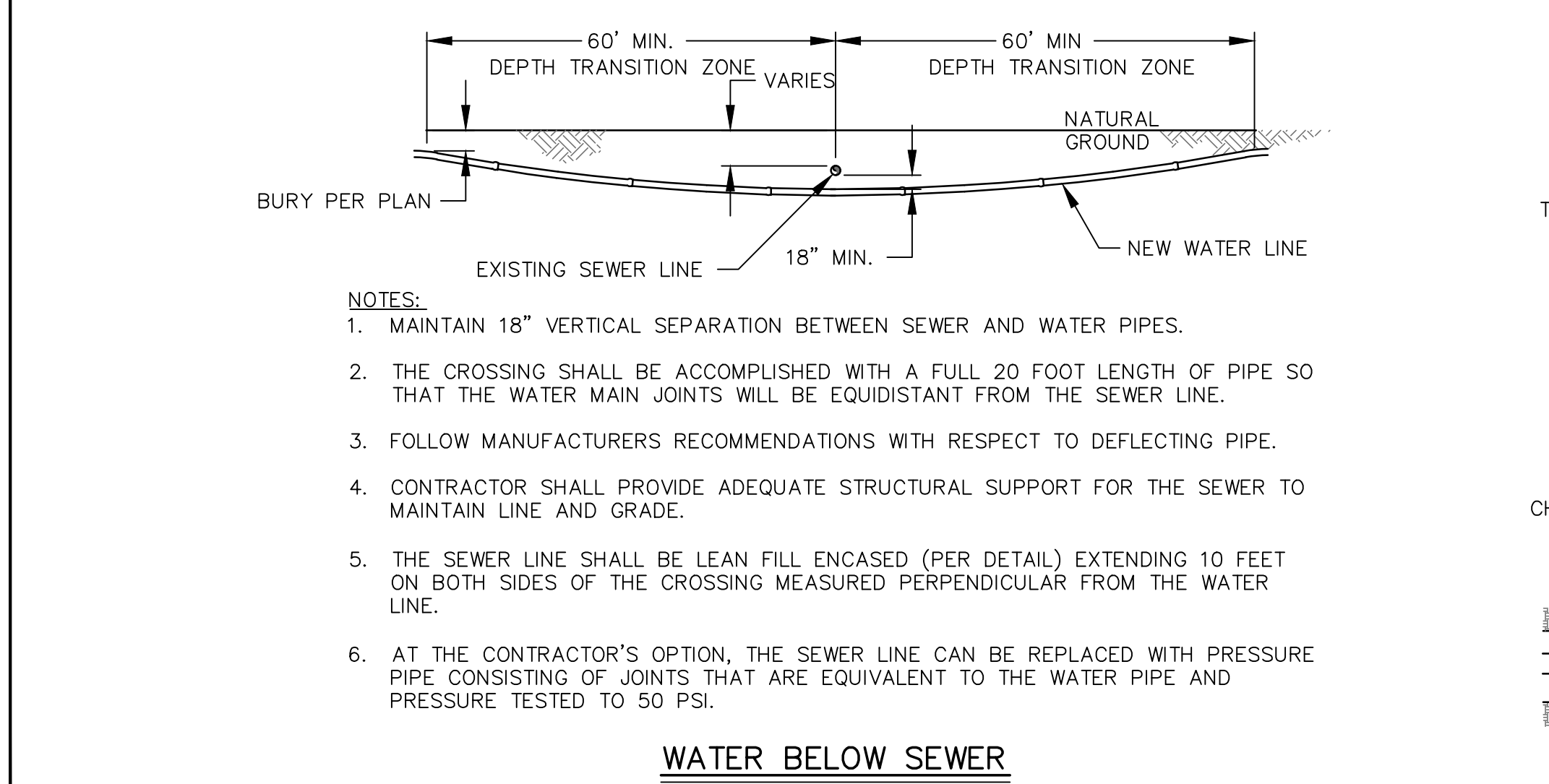
(SEAL)  
GARY H. BIERMEYER  
26787  
8-9-2023  
PROFESSIONAL ENGINEER

SHEET  
CU501





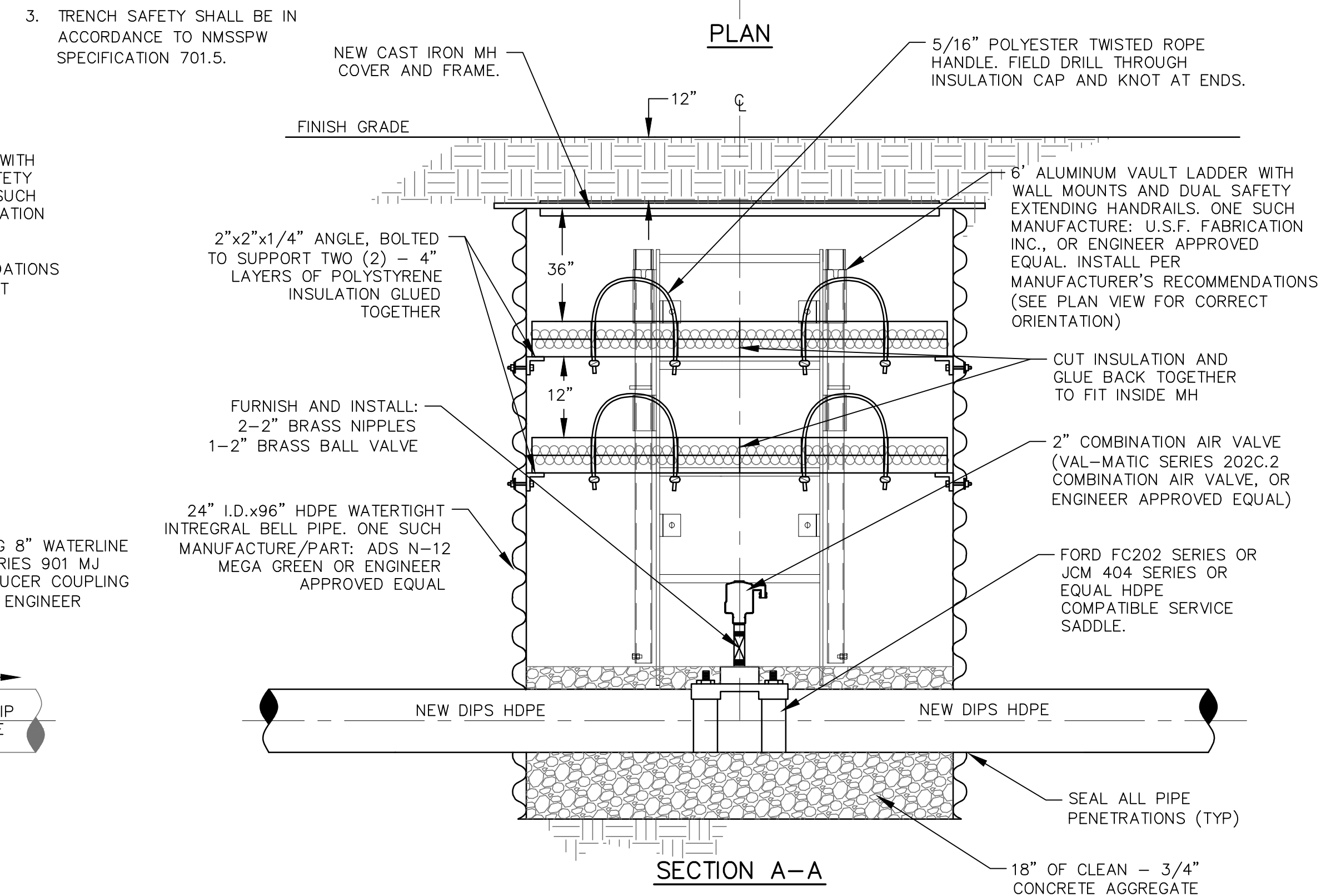
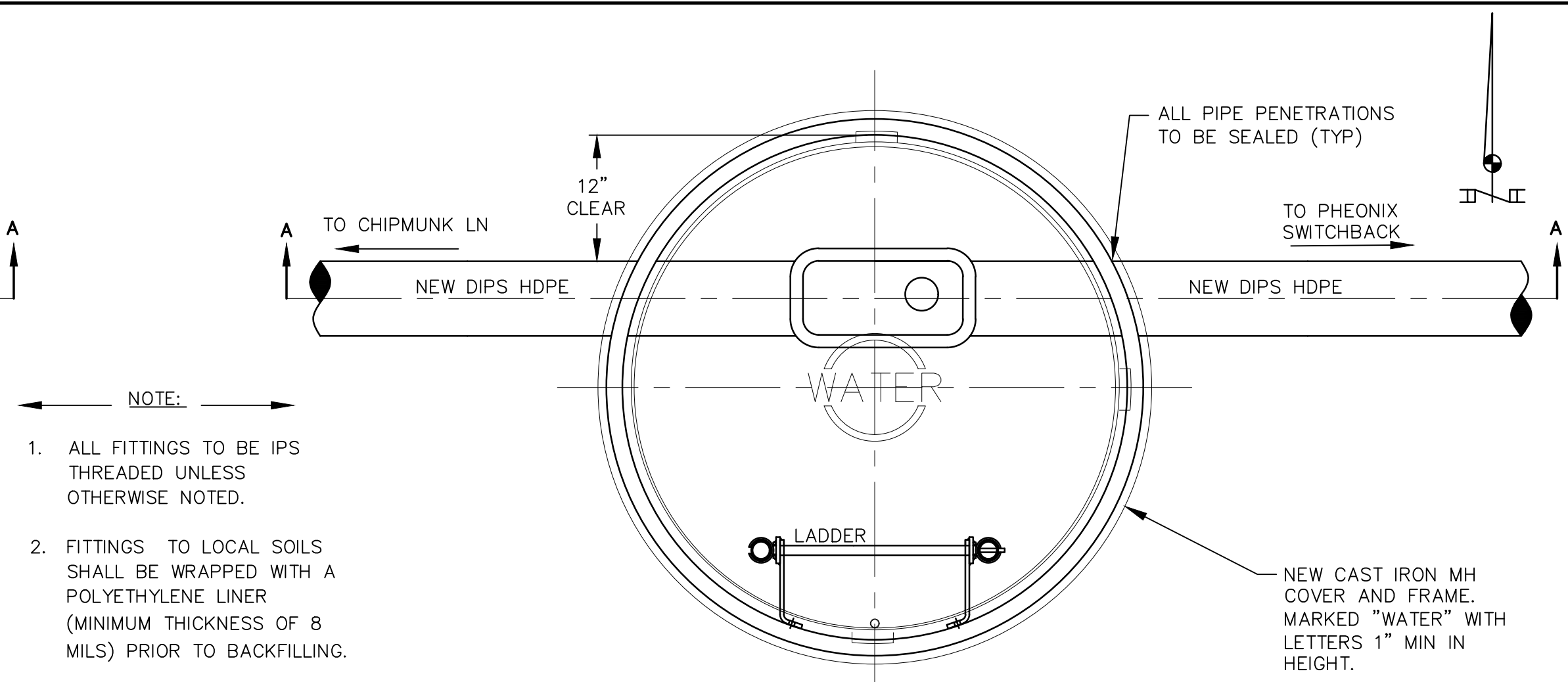
**REPLACEMENT ARV VAULT DETAIL**  
A1 SCALE: NONE



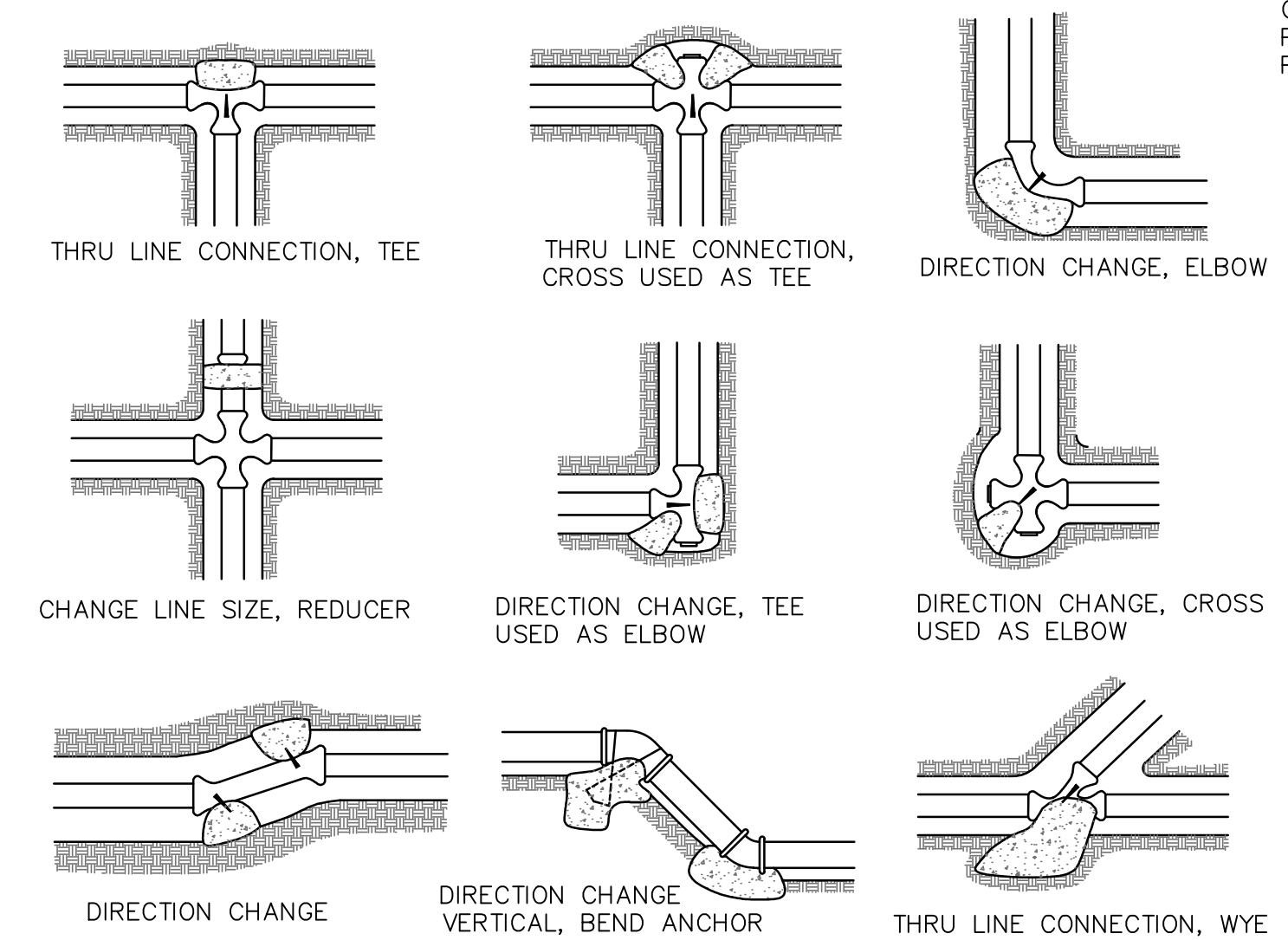
- NOTES:**
1. MAINTAIN 18" VERTICAL SEPARATION BETWEEN SEWER AND WATER PIPES.
  2. THE CROSSING SHALL BE ACCOMPLISHED WITH A FULL 20 FOOT LENGTH OF PIPE SO THAT THE WATER MAIN JOINTS WILL BE EQUIDISTANT FROM THE SEWER LINE.
  3. FOLLOW MANUFACTURERS RECOMMENDATIONS WITH RESPECT TO DEFLECTING PIPE.
  4. CONTRACTOR SHALL PROVIDE ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER TO MAINTAIN LINE AND GRADE.
  5. THE SEWER LINE SHALL BE LEAN FILL ENCASED (PER DETAIL) EXTENDING 10 FEET ON BOTH SIDES OF THE CROSSING MEASURED PERPENDICULAR FROM THE WATER LINE.
  6. AT THE CONTRACTOR'S OPTION, THE SEWER LINE CAN BE REPLACED WITH PRESSURE PIPE CONSISTING OF JOINTS THAT ARE EQUIVALENT TO THE WATER PIPE AND PRESSURE TESTED TO 50 PSI.

**WATER — SEWER PROXIMITY DETAIL**  
A2 SCALE: NONE

- NOTE:**
1. ALL FITTINGS TO BE IPS THREADED UNLESS OTHERWISE NOTED.
  2. FITTINGS TO LOCAL SOILS SHALL BE WRAPPED WITH A POLYETHYLENE LINER (MINIMUM THICKNESS OF 8 MILS) PRIOR TO BACKFILLING.
  3. TRENCH SAFETY SHALL BE IN ACCORDANCE TO NMSSPW SPECIFICATION 701.5.



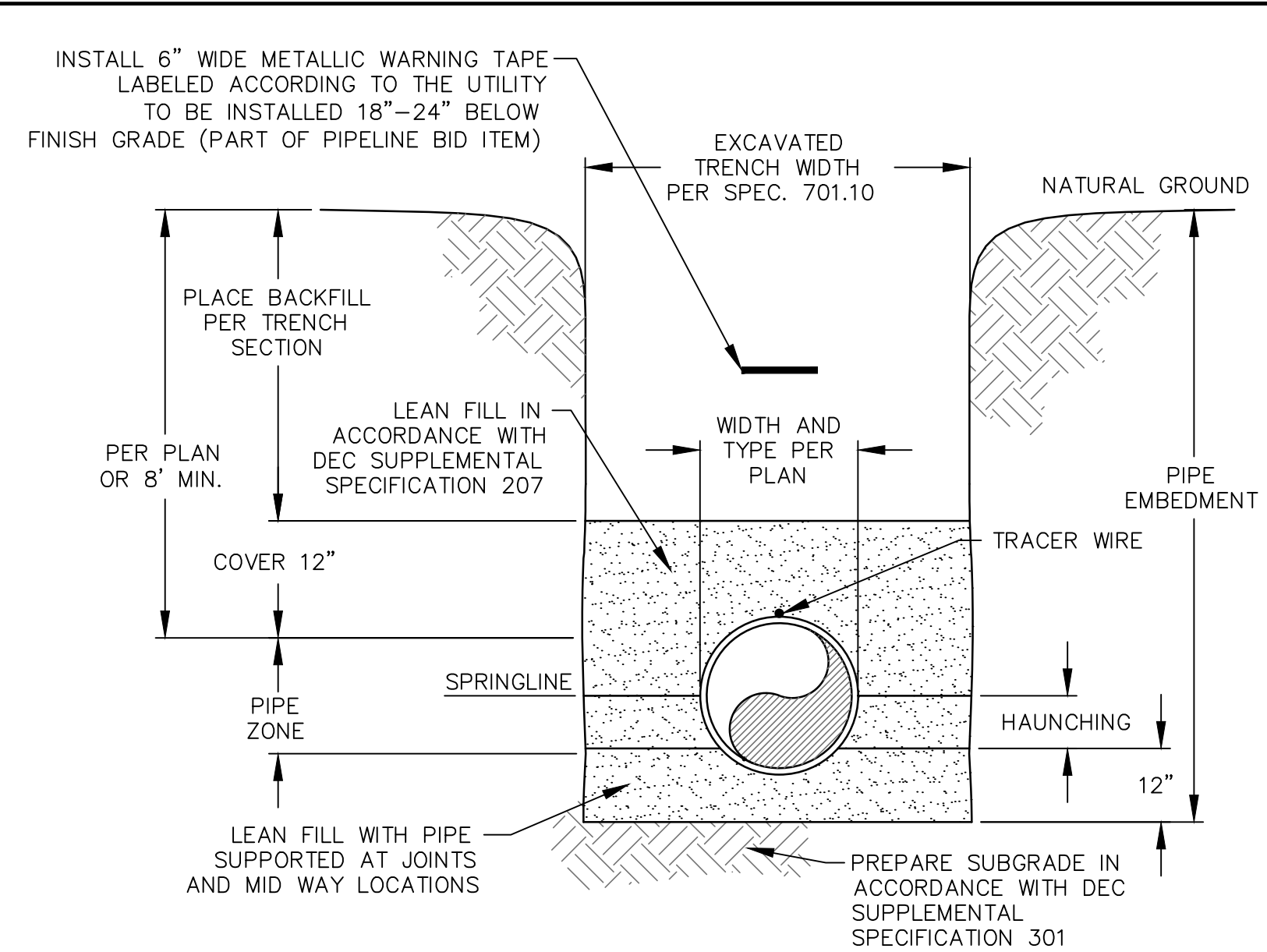
**NEW ARV VAULT DETAIL**  
B1 SCALE: NONE



**THRUST BLOCKING DETAIL**  
B2 SCALE: NONE

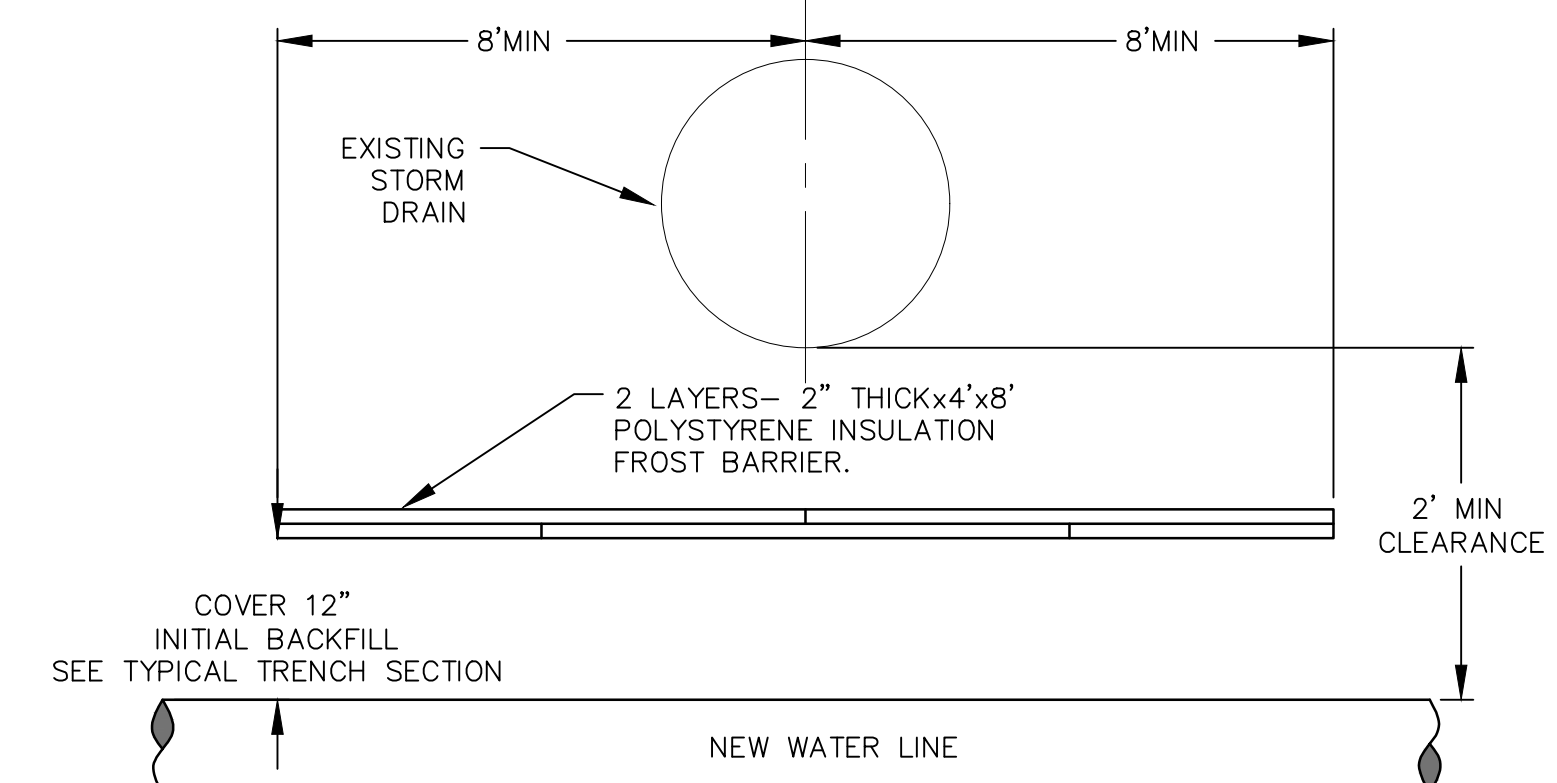
**NOTE:**  
CONTRACTOR TO WRAP FITTINGS W/PLASTIC PRIOR TO PLACEMENT OF CONCRETE, AVOID PLACING CONCRETE ON BOLTS

MINIMUM REQUIRED THRUST-BLOCK AREA AGAINST UNDISTURBED SOIL (FT <sup>2</sup> )						
PIPE SIZE	CAPS, TEES, PLUGS	90° BEND	45° BEND	22-1/2° BEND	1-1/4° BEND	
2"	0.25	0.35	0.20	0.10	0.10	
2-1/2"	0.35	0.50	0.30	0.15	0.10	
3"	0.50	0.70	0.40	0.20	0.10	
4"	0.90	1.25	0.70	0.35	0.20	
6"	1.90	2.70	1.50	0.75	0.40	
8"	3.30	4.70	2.60	1.30	0.70	
10"	4.70	6.70	3.60	1.90	1.00	
12"	6.70	9.50	5.20	2.60	1.40	
14"	9.00	12.70	6.90	3.50	1.80	



**LEAN FILL ENCASEMENT DETAIL**  
C1 SCALE: NONE

- NOTES:**
1. EXISTING INSULATION FROST BARRIER TO REMAIN.
  2. INSULATION DAMAGED DURING TRENCHING SHALL BE REPLACED WITH 2- LAYERS, 2" THICK POLYSTYRENE INSULATION FROST BARRIER EXTENDED 8' ON EACH SIDE OF STORM DRAIN, JOINTS TO BE STAGGERED.

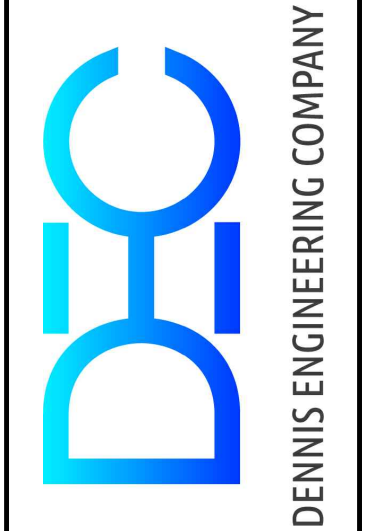


**WATER BELOW STORM DRAIN DETAIL**

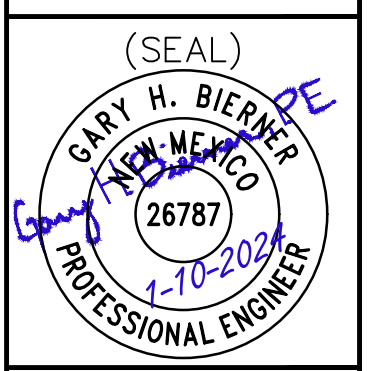
**WATER LINE IN PROXIMITY TO STORM DRAIN**  
C2 SCALE: NONE

DESIGN: DEC  
DRAWN: JTK  
CHECKED: TJM, GHG  
DATE: 8-9-2023  
REV: 1-10-2024  
REV:  
REV:

PROJECT  
**VILLAGE OF TAOS SKI VALLEY  
PHOENIX SWITCHBACK  
WATERLINE REPLACEMENT**



TITLE  
**UTILITY DETAILS**



SHEET  
**CU502**

NOTICE OF EXTENDED PAYMENT PROVISION — THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT