



SANTA FE COUNTY
424 NM SR 599
SANTA FE, NEW MEXICO
SEPTEMBER 2025

construction plans for the
ABAJO LIFT STATION RE-DIRECT

AGREEMENT SFC # 2023-XXXX-XX/XX

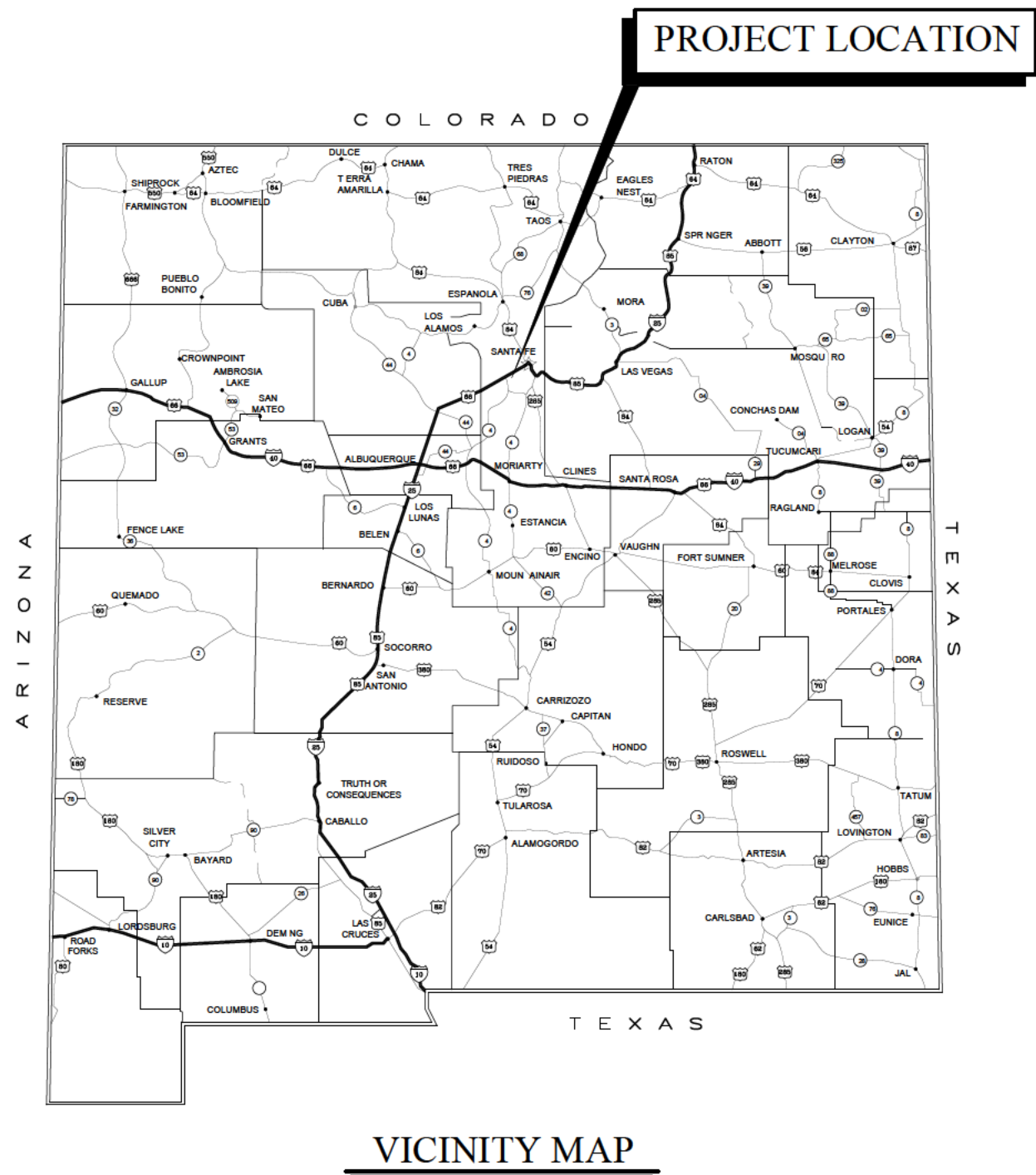
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CERTIFICATION:

I, KENNETH R. MULLER, REGISTERED PROFESSIONAL ENGINEER NO. 12548 HEREBY CERTIFY THAT THE FOLLOWING PLANS AND DESIGNS WERE MADE UNDER MY SUPERVISION AND DIRECTION AND THAT SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

KENNETH R. MULLER
NO. 12548



VICINITY MAP

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR THE CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS INSTRUMENT ARE OWNED BY AND THE PROPERTY OF MOLZEN-CORBIN & ASSOCIATES, AND WERE CREATED AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. THESE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL NOT BE USED BY ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF MOLZEN-CORBIN & ASSOCIATES.

THESE DRAWINGS REFLECT INFORMATION ON UTILITIES GATHERED BY SITE INSPECTION, DISCUSSIONS WITH MUNICIPAL OFFICIALS, AND PREVIOUS CONSTRUCTION DOCUMENTS. IT IS POSSIBLE THAT THE EXACT LOCATION OF LINES AND UTILITY CONNECTION POINTS IN THE VICINITY OF REQUIRED WORK MAY BE DIFFERENT FROM THE LOCATION SHOWN ON THESE DRAWINGS. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

DESCRIPTION	REV DATE	REV NO	NUMERIC SCALE CONFIRMATION
			DRAWINGS ARE DEPICTED AT INTENDED NUMERIC SCALES IF THIS BAR EQUALS ONE INCH

MOLZENCORBIN
ENGINEERS | ARCHITECTS | PLANNERS

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Molzen Corbin Project Number: CES235-11

G-001
Sheet

GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS TO ALL LOCAL BUSINESSES AND RESIDENCES FOR THE DURATION OF THIS PROJECT. THE CONTRACTOR SHALL ADVISE AND SCHEDULE ALL ACCESS CLOSURES, AT LEAST TWENTY-FOUR (24) HOURS IN ADVANCE, WITH THE AFFECTED PROPERTY OWNERS AND WITH THE ENGINEER.
2. THREE WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL, INC., 811, FOR LOCATION OF EXISTING UTILITIES.
3. UTILITY COORDINATION

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS.

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPE LINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING IN ADVANCE OF CONSTRUCTION OPERATIONS, IF OVERHEAD UTILITY LINES SUPPORT STRUCTURES, POLES GUYS, ETC. ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTIONS TO CONSTRUCTION OPERATIONS IS EVIDENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COST ASSOCIATED WITH THIS EFFORT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO SEPARATE PAYMENT WILL BE MADE.

CONTRACTOR IS TO SUPPORT AND MAINTAIN THE INTEGRITY OF ALL UNDERGROUND TELEPHONE, ELECTRIC CABLES, AND CABLE TELEVISION UTILITIES AT NO ADDITIONAL COST TO THE OWNER. CABLE IS TO BE SUPPORTED EVERY 15' (MINIMUM). CONTRACTOR SHALL COORDINATE WITH AND MAKE NECESSARY PAYMENT (IF ANY) TO UTILITY OWNER FOR DE-ENERGIZATION OF CABLES OR SUPPORT OF CABLES BY THE UTILITY OWNER.

4. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
5. THESE DRAWINGS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
6. THE CONTRACTOR SHALL COORDINATE ANY WATER SHUT-OFF OPERATION WITH THE UTILITY MANAGER NOT LESS THAN THREE (3) WORKING DAYS PRIOR TO INITIATING ANY WORK AFFECTING EXISTING WATER UTILITIES. WATER SERVICE SHUT-OFF SHALL BE LIMITED TO FOUR (4) HOURS. SEE SPECIFICATION SECTION 01 14 16.01 - COORDINATION WITH PUBLIC AND UTILITY INTERRUPTIONS.
7. REMOVE AND REPLACE EXISTING SIGNAGE, MAILBOXES, AND OTHER MINOR OBSTRUCTIONS AS NEEDED. THIS WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, AND NO SEPARATE PAYMENT WILL BE MADE, UNLESS NEW SIGNS ARE CALLED OUT.
8. THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF "RECORD DRAWINGS" FOR THIS PROJECT. THESE PLANS SHALL BE KEPT CURRENT, WITHIN TWO (2) WEEKS, AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE ENGINEER THROUGHOUT THIS PROJECT AND WILL BE REVIEWED BY THE ENGINEER FOR ACCURACY AND COMPLETENESS AT A MINIMUM OF ONCE EVERY THIRTY (30) DAYS. THE FINAL "RECORD DRAWINGS" SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL PAYMENT. SEE SPECIFICATION SECTION 01 78 39 - PROJECT RECORD DOCUMENTS.
9. THE CONTRACTOR SHALL PROPERLY HANDLE AND DISPOSE OF ALL ASPHALT PAVEMENT REMOVED ON THIS PROJECT AND NOT OTHERWISE BLENDED INTO BASE COURSE, AS DIRECTED BY THE OWNER, BY EITHER:- HAULING TO AN APPROVED LANDFILL IN ACCORDANCE WITH THE REGULATIONS OF THE NEW MEXICO SOLID WASTE ACT; OR- THE CONTRACTOR SHALL SAW CUT AND REMOVE EXISTING ASPHALT PAVEMENT AS INDICATED ON PLANS AND STOCKPILE MATERIAL TO A LOCATION DESIGNATED BY THE OWNER. THIS WORK SHALL BE CONSIDERED INCIDENTAL AND NO SEPARATE PAYMENT SHALL BE MADE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING AND CLEANUP OF SPILLS WHICH ARE ASSOCIATED WITH THIS PROJECT'S CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIAL SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC AND CORROSIVE SUBSTANCES, AND ANY OTHER MATERIALS WHICH MAY BE CONSIDERED A THREAT TO THE PUBLIC HEALTH OR THE ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPORTING OF ANY PAST SPILLS WHICH WERE ENCOUNTERED DURING THIS PROJECT'S CONSTRUCTION AND OF ANY CURRENT SPILLS NOT ASSOCIATED WITH THIS PROJECT'S CONSTRUCTION. THESE REPORTS SHALL BE MADE IMMEDIATELY TO THE NEW MEXICO ENVIRONMENTAL DEPARTMENT'S EMERGENCY RESPONSE TEAM AT 505-827-9329 AND TO THE ENGINEER.
11. LINEAR GRADING SHALL INCLUDE ALL GRADING ADJACENT TO THE ROADWAY AND AS REQUIRED TO TRANSITION AND TIE-IN EXISTING DRIVEWAYS WITH LIKE MATERIALS. NO ADDITIONAL PAYMENT WILL BE MADE.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING EARTHWORK DURING CONSTRUCTION BY HAULING AND DISPOSING OF EXCESS AND/OR UNSUITABLE MATERIAL AND IMPORTING CLEAN FILL AS NEEDED.
13. CONTRACTOR SHALL PROVIDE A VIDEO OF EXISTING ROAD CONDITIONS, AND IS RESPONSIBLE FOR ANY DAMAGE DONE TO EXISTING ROADWAY.
14. DISTURBANCE OF EXISTING VEGETATION MUST BE AVOIDED WHEREVER POSSIBLE. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DISTURBED AND/OR DAMAGED VEGETATION AND SHALL REPLACE AT ITS OWN EXPENSE.
15. CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS REGARDING RELOCATION OF MAILBOXES, FENCES, LANDSCAPE FEATURES, ETC..
16. CONTRACTOR SHALL COORDINATE WITH U.S. POSTAL SERVICE CARRIER TO ENSURE THAT MAIL DELIVERY IS NOT INTERRUPTED DURING CONSTRUCTION.
17. CONTRACTOR SHALL COORDINATE WITH GARBAGE PICKUP PERSONNEL TO ENSURE THAT GARBAGE PICKUP IS NOT INTERRUPTED DURING CONSTRUCTION.
18. CONTRACTOR SHALL CONSTRUCT THE PROJECT PER THE TECHNICAL SPECIFICATIONS IN THE CONTRACT DOCUMENTS. A COPY OF THE TECHNICAL SPECIFICATIONS MAY BE OBTAINED FROM THE PROJECT ENGINEER. THE TECHNICAL SPECIFICATIONS INCLUDE THE FOLLOWING:
1. CSI TECHNICAL SPECIFICATIONS
2. SANTA FE COUNTY ORDINANCE 2003-01
AN ORDINANCE REGULATING PROCEDURES FOR WORKING IN, DISTURBING AND REPAIRING COUNTY PROPERTY AND RIGHTS-OF-WAY.
3. NMDOT SPECIFICATIONS.

WATERLINE CONSTRUCTION

1. ALL WATER LINE AND FITTINGS MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH THE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS, THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, (NMAPWA) 2006 EDITION, OR SUBSEQUENT REVISIONS, AND THE SANTA FE COUNTY WATER UTILITY CONSTRUCTION STANDARD AND SPECIFICATIONS MANUAL, UNLESS OTHERWISE INDICATED ON THESE DRAWINGS. WHEN CONFLICT ARISES AMONG THESE, THE LATTER SHALL PREVAIL.
2. LOCATION OF LINES AND FITTINGS SHALL BE IN ACCORDANCE WITH THE DETAILS SHOWN ON THESE DRAWINGS.
3. UNLESS OTHERWISE INDICATED ON THESE DRAWINGS, PIPELINES AND ALL APPURTENANT FITTINGS SHALL BE DUCTILE IRON, PVC C-900, WITH CLASS-D BEDDING OR BETTER. MECHANICAL OR MEGALUG (R) JOINTS, OR THERMAL FUSION JOINING RESPECTIVELY (HDPE). EXCAVATION SHALL BE PROPERLY MADE TO ACCOMMODATE THE PIPE'S BELL ENDS AS NECESSARY. WATERLINES SHALL BE 6" DIAMETER OR LARGER.
4. ALL WATER LINES SHALL BE INSTALLED IN THEIR OWN TRENCH, WITH NO OTHER UTILITIES IN THE TRENCH, BURIED UNDER A MINIMUM 48 INCHES OF COMPACTED BACKFILL.
5. WHEN CROSSING, WATER LINES SHALL ALWAYS BE ABOVE SEWER LINES, AND A MINIMUM 18-INCH CLEARANCE SHALL BE ALLOWED BETWEEN THE BOTTOM OF THE WATER LINE AND THE TOP OF ANY SANITARY SEWER, UNLESS SPECIAL CROSSING PROVISIONS ARE SHOWN ON THESE DRAWINGS.
6. TYPICAL HORIZONTAL SEPARATION BETWEEN WATER LINES AND ANY SANITARY SEWER LINE SHALL BE MINIMUM 10 FEET, AND SEPARATE TRENCHES SHALL BE EXCAVATED IN ALL CASES.
7. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DISINFECTION AND PRESSURE TESTING OF ALL NEW WATER LINES, IN ACCORDANCE WITH AWWA STANDARDS. COUNTY UTILITY PERSONNEL SHALL BE PRESENT DURING SUCH TESTING, AND AN INSPECTION REPORT SHALL BE SUBMITTED BY THE CONTRACTOR TO THE COUNTY UTILITIES PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE COUNTY UTILITY STAFF FOR THEIR PRESENCE DURING FIELD TESTING OF LINES. BACTERIA TEST RESULTS OVER 30 DAYS OLD, BY THE COMPLETION OF THE PROJECT SHALL BE RETESTED AT NO ADDITIONAL EXPENSE TO THE OWNER.
8. ALL VALVES 12" DIAMETER OR SMALLER SHALL BE FULL-PORT GATE TYPE, RESILIENT SEATING, MECHANICAL OR MEGALUG (R) JOINTS, PIPE, AND INSTALLED IN COMPLIANCE WITH THE COUNTY WATER SYSTEM DETAILS.
9. UPON COMPLETION ONE VALVE SHALL BE TIED TO ONE OR MORE OF THE SANTA FE COUNTY'S PERMANENT SURVEY MONUMENTS, (OR OTHER VISIBLE WATER FEATURES OR FIXTURES) SUCH AS FIRE HYDRANTS AND WATER METERS WITH DISTANCES BETWEEN ALL FITTINGS AND APPURTENANCES PROVIDED AS REQUIRED IN THE UTILITY DEPARTMENTS CONSTRUCTION STANDARDS AND SPECIFICATIONS MANUAL. THE WORK SHALL BE PERFORMED BY A REGISTERED NEW MEXICO LICENSED SURVEYOR, OR ENGINEER WITH INFORMATION PROVIDED BY THE CONTRACTOR.
10. ALL FIRE HYDRANTS SHALL BE SUPPLIED WITH NFP CONNECTORS, AND NUMBERED (NUMBER SUPPLIED BY THE COUNTY FIRE DEPARTMENT). HYDRANTS SHALL BE INSTALLED TO ALLOW A MINIMUM HORIZONTAL CLEARANCE OF 3- FEET ALL AROUND THEM.
11. WATER SERVICE CONNECTIONS AND METERS SHALL BE 1-INCH MINIMUM DIAMETER FOR LOTS THAT WILL BE THE SITE FOR RESIDENTIAL BUILDINGS EQUIPPED WITH FIRE SUPPRESSION SYSTEMS. OTHERWISE, CONNECTIONS AND METERS SHALL BE STANDARD 5/8-INCH DIAMETER. METER SETTERS SHALL BE PER STANDARD REQUIRED IN SANTA FE COUNTY UTILITY DEPARTMENT'S CONSTRUCTION STANDARDS AND SPECIFICATIONS MANUAL. METERS SHALL BE NEPTUNE MACH-10 WITH E-CODE, R-9001 REGISTER AND RADIO TRANSMITTER.
12. LOCATE WIRES SHALL BE INSTALLED ON ALL WATER LINES. THE LOCATE WIRE MUST BE VISIBLE IN ALL VALVE VAULTS, MANHOLES OR OTHER ACCESS STRUCTURES. THIS WILL BE VERIFIED DURING THE PRELIMINARY INSPECTION PRIOR TO PAVING. THE LOCATE WIRE SHALL BE A CONTINUOUS 12 GAUGE, SOLID STRAND INSULATED COPPER WIRE. SPLICES OF THE LOCATE WIRE SHALL FOLLOW THE SPECIFICATIONS IN THE SANTA FE COUNTY UTILITY DEPARTMENT'S CONSTRUCTION STANDARDS AND SPECIFICATIONS MANUAL.
13. BLUE CARSONITE MARKERS WITH SFCU I.D. STICKERS ARE REQUIRED ON ALL VALVES AND APPURTENANCES, AND EVERY 300 FEET ALONG PIPELINES THAT ARE NOT IN ROADWAY.
14. IF BURIED ARCHEOLOGICAL OR CULTURAL DEPOSITS ARE DISCOVERED DURING CONSTRUCTION, WORK SHALL CEASE IN THE AFFECTED AREA, AND THE CONTRACTOR SHALL CONTACT THE NMDOT ENVIRONMENTAL BUREAU (STEVE LAKATOS BY PHONE AT 505-827-5513 OR BY EMAIL AT STEVEN.LAKATOS@STATE.NM.US).

DRY UTILITIES

1. SHADING AND BEDDING MATERIAL SHALL BE TYPE IV, CLASS 1 FOR DIRECT BURY CABLE, AND TYPE IV, CLASS 2 FOR CABLE IN CONDUIT. TYPE 111 MATERIAL SHALL BE CONSIDERED SUITABLE FOR EITHER TYPE OF INSTALLATION.
2. IF TRENCH-RUN MATERIAL MEETS BACKFILL MATERIAL REQUIREMENTS, 3-INCH BEDDING MAY BE OMITTED, PROVIDED THAT THE TRENCH BOTTOM IS SMOOTH, FLAT, AND WITHOUT SURFACE IRREGULARITIES.
3. SEPARATION BETWEEN JACKETED PRIMARY AND COMMUNICATION CABLES SHALL BE AT LEAST 12 INCHES.
4. WARNING TAPE SHALL BE PLACED A MINIMUM 12 INCHES ABOVE THE UPPER LEVEL OF UTILITIES AT THE CENTER OF THE TRENCH.
5. DRY UTILITY REQUIREMENTS SPECIFIED BY THE RESPECTIVE UTILITY SHALL BE FOLLOWED.

ENVIRONMENTAL EROSION AND SEDIMENT CONTROL REQUIREMENTS

1. THE CONTRACTOR SHALL SUBMIT TO THE PROJECT MANAGER AND OR OWNER'S PROJECT REPRESENTATIVE (OPR) A SWPPP PLAN THAT COMPLIES WITH THE 2017 CONSTRUCTION GENERAL PERMIT AND SUBSEQUENT REVISIONS. SEE SPECIFICATIONS SECTION 01 74 17 - STORM DRAINAGE DISCHARGE COMPLIANCE.
2. AT A MINIMUM, ALL AREAS DENUDED AND/OR DISTURBED BY CONSTRUCTION TRAFFIC SHALL BE SPRAYED WITH WATER ON A DAILY BASIS TO CONTROL DUST GENERATION. ADDITIONAL WATER SHALL BE APPLIED ON WINDY DAYS AS NEEDED OR AS REQUIRED BY SANTA FE COUNTY.
3. AS SOON AS FINAL GRADES ARE ACHIEVED, AND PROPER CLIMATIC CONDITIONS PREVAIL, NATIVE GRASS SEEDS SHALL BE APPLIED. CONTRACTOR SHALL PERFORM THIS ACTIVITY IN CONFORMANCE WITH THE APPROVED TERRAIN MANAGEMENT PLAN FOR SEED MIX DETAILS, AS WELL AS APPLICATION AND CARE METHODOLOGY.
4. GRAVEL BAGS AND OTHER EPA APPROVED DEVICES SHALL BE INSTALLED AROUND DROP INLET GRATES IMMEDIATELY AFTER THEIR INSTALLATION TO PREVENT SEDIMENT FROM ENTERING THE STORM WATER SYSTEM. SEDIMENT DEPOSITED AROUND GRAVEL BAGS AND OTHER EPA APPROVED DEVICES SHALL BE SWEEPED AND REMOVED IMMEDIATELY UPON DEPOSITION.
5. SILT FENCES OR WADDLES MEETING EPA REQUIREMENTS FOR SEDIMENT CONTROL SHALL BE INSTALLED AT ALL SLOPES IN STRICT ACCORDANCE WITH SWPPP PLAN.
6. CONTRACTOR SHALL DISPOSE OF ITEMS DESIGNATED FOR REMOVAL WITHOUT SALVAGE, WHICH ARE UNSUITABLE FOR USE AS CONSTRUCTION MATERIALS IN THIS PROJECT. DISPOSAL SHALL BE PERFORMED IN AN ENVIRONMENTALLY SOUND SITE, SECURED BY THE CONTRACTOR IN CLOSE COORDINATION WITH THE APPROPRIATE REGULATORY AGENCIES. CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER AND OR OPR, IN WRITING, OF ANY RELEVANT DETAILS IN CONNECTION WITH THE DISPOSAL OPERATIONS.

7. BORROW MATERIAL, CONSTRUCTION WASTE, VEGETATIVE DEBRIS, ETC SHALL NOT BE PLACED IN WETLAND AREAS ARROYOS, OR ANY AREAS ENDANGERED SPECIES, OR HABITAT RESOURCES MAY BE AFFECTED. BORROW AREAS NOT CONTIGUOUS TO THE PROJECT SITE SHALL BE SHOWN IN THE SWPPP.
8. ALL WORK PERFORMED IN THE VICINITY OF EXISTING STREAMS, WATER IMPOUNDMENTS, WETLANDS OR IRRIGATION WATER SOURCES SHALL BE PERFORMED IN SUCH A MANNER AS TO MINIMIZE VEGETATION DAMAGE OR REMOVAL, AS WELL AS ANY SOIL EROSION. CONSTRUCTION EQUIPMENT'S CROSSINGS OF EXISTING STREAMS, WHETHER THE STREAMS ARE EPHEMERAL OR PERENNIAL SHALL BE MINIMIZED, AND IN COMPLIANCE WITH THE CLEAN WATER ACT (CWA), USACE 404, OR OTHER FEDERAL PERMIT REQUIREMENTS.
9. ALL WORK PERFORMED IN A FLOOD PLAIN SHALL COMPLY WITH THE SANTA FE COUNTY FLOOD PLAIN ORDINANCE.
10. RE-FUELING OPERATIONS AND CONCRETE DUMPING IN THE VICINITY OF ANY BODY OF WATER SHALL BE STRICTLY PROHIBITED.
11. CONTRACTOR SHALL COORDINATE WITH PROJECT ENGINEER TO AVOID DISTURBANCE OF NESTING AREAS IDENTIFIED IN THE PROJECT BIOLOGICAL REPORT AS REQUIRING PROTECTION.

TERRAIN MANAGEMENT AND RE-VEGETATION WORK REQUIREMENTS

1. ALL AREAS DISTURBED BY THE CONSTRUCTION ACTIVITIES OF THIS PROJECT, INCLUDING ANY TEMPORARY ACCESS ROAD, SHALL BE RE-GRADED TO THEIR ORIGINAL CONTOURS, AND RE-SEEDED IN ACCORDANCE WITH THE FOLLOWING PLAN AFTER COMPLETION OF THE CONSTRUCTION OPERATIONS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUCCESSFUL RECOVERY OF DISTURBED AREAS FOLLOWING RE-VEGETATION THROUGH THE FIRST GROWING SEASON AFTER COMPLETION OF THIS PROJECT. IN THE EVENT THAT THE REVEGETATION PLAN CANNOT BE ACCOMPLISHED BEFORE SEPTEMBER 1 DUE TO CONSTRUCTION DELAYS, AND DISTURBED SURFACES MUST REMAIN EXPOSED AFTER THIS DATE, THE CONTRACTOR SHALL INSTALL TEMPORARY PROTECTION SUCH AS A COVER CROP OR A MULCH TO PREVENT SOIL EROSION, AT NO ADDITIONAL COST TO THE OWNER. A TEMPORARY CONSTRUCTION FENCE SHALL BE MAINTAINED AROUND THE DISTURBED AREA UNTIL THE NEW VEGETATION IS ESTABLISHED.
3. AREAS WITH A SLOPE LESS THAN 3:1 SHALL BE TREATED WITH DRILL SEEDING (CLASS A), WHILE SLOPES EXCEEDING 3:1 SHALL BE TREATED WITH HYDRO SEEDING AND SHALL INCLUDE HAND-RAKING OR CHAIN-HARROWING TO COVER SEED TO A DEPTH OF 1/4-INCH TO 1/2-INCH. SLOPES EXCEEDING 3:1 SHALL BE TREATED WITH BFM, MEETING NMDOT CLASS D SPECIFICATIONS AND IN COMPLIANCE WITH THE EPA'S (CONSTRUCTION GENERAL PERMIT) FOR FINAL STABILIZATION. ALL TOPSOIL WHICH MUST BE REMOVED OR DISTURBED DURING CONSTRUCTION SHALL BE SAVED AND STOCKPILED AT A LOCATION DESIGNATED BY THE OPR. ANY DISTURBED AREA TO BE SEEDED WHICH HAS LESS THAN 6 INCH TOTAL TOPSOIL DEPTH SHALL BE SUPPLEMENTED TO A 6 INCH DEPTH WITH THE STOCKPILED MATERIAL.
4. THE SEED BED SHALL BE PREPARED TO A MINIMUM 4-INCH DEPTH BY TILLING WITH A DISC, HARROW, OR CHISELING TOOLS. ALL COMPETITIVE VEGETATION SHALL BE UPROOTED DURING THIS PREPARATION, AND THE SOIL SHALL BE UNIFORMLY WORKED TO A SMOOTH, FIRM SURFACE FREE OF CLODS, STONES OR OTHER EXTRANEEOUS MATERIALS 4 INCH OR LARGER THAT WOULD INTERFERE WITH SEEDING EQUIPMENT AND GERMINATION. SEED BED PREPARATION BY MECHANICAL MEANS WILL NOT BE REQUIRED ON SLOPES EXCEEDING 3:1 IF, IN THE OPINION OF THE PROJECT MANAGER AND OR OPR, SEED BED PREPARATION ON THESE SLOPES IS IMPRACTICAL OR UNSAFE. ALL TILLING SHALL BE PERFORMED ACROSS THE SLOPE WHEN PRACTICAL AND SHALL BE PERFORMED IN TWO DIRECTIONS WHENEVER ONE PASS IS INSUFFICIENT, IN THE OPR'S OPINION, TO ADEQUATELY BREAK UP THE SOIL. TILLING SHALL NOT BE PERMITTED WHEN THE WIND BLOWS AT MORE THAN 10 MPH CAUSING DUST GENERATION AND MOVEMENT IN TO ADJACENT AREAS. NO WORK SHALL BE PERFORMED WHEN THE SOIL'S MOISTURE CONTENT IS UNFAVORABLE, OR THE GROUND CONDITIONS ARE NOT SUITABLE FOR TILLING.
5. SEED SHALL BE UNIFORMLY APPLIED OVER THE AREA TO BE TREATED. THE CONTRACTOR'S EQUIPMENT SHALL NOT TRAVEL OVER THE SEEDED AREAS, IF RAIN OR OTHER NATURAL PHENOMENA, WHICH MAKE THE SOIL UNSUITABLE FOR SEEDING, THE CONTRACTOR SHALL RE-PREPARE THE SOIL AS DESCRIBED HEREBY AT NO ADDITIONAL COST TO THE OWNER. SEEDS SHALL BE DRILLED TO A MINIMUM OF 1/2-INCH, UNLESS OTHERWISE INDICATED ON THESE DRAWINGS. DIRECTION OF SEEDING SHALL BE ACROSS THE SLOPES AND ON THE CONTOUR WHENEVER POSSIBLE.
6. HYDROSEEDING SHALL BE PERFORMED IN SLOPES EXCEEDING 3:1 OR IN AREAS INACCESSIBLE TO THE SEED DRILL. [PLEASE CHECK THE 2014 NMDOT SPECIFICATIONS FOR CLASS C SEEDING AND NOTE THAT ON PAGE 619 THE DESCRIPTION FOR CLASS C SAYS USE FOR "(SLOPES FLATTER THAN 3:1)" BUT SHOULD READ "(STEEPER THAN 3:1)".
7. MULCH SHALL BE PLACED OVER ALL SEEDED AREAS. THE MULCH SHALL BE MADE OF STRAW OR HAY, AND APPLIED TO PRODUCE A DEPTH OF 1-1/2-INCH TO 2-INCH. STRAW OR HAY WITH NOXIOUS SEEDS OR PLANTS, ROTTED, BRITTLE, SHORT FIBERED, OR IMPROPERLY CURED IS NOT ACCEPTABLE.
8. PROVIDE CERTIFIED SEED OF NAMED VARIETIES IN ACCORDANCE WITH THE MINIMUM STANDARDS OF THE APPROPRIATE SEED CERTIFICATION AGENCY. SEED SHALL BE CERTIFIED WEED-FREE IN ACCORDANCE WITH NM SEED LAW NMSA 1978 576-10-13.

SEED MIX AND SEEDING RATE ARE AS FOLLOWS:

SEED	PERCENTAGE OF SEED MIX
SIDE OATS GRAMA	20%
BLUE GRAMA	30%
LITTLE BLUESTEM	20%
INDIAN RICEGRASS	10%
SHEEP FESCUE	10%
STREAMBANK WHEATGRASS	4%
GALLETA	5%
WILD FLOWER MIX	3% OF TOTAL SEED WEIGHT

- NOTE: POUNDS PER ACRE OF SEED MIXTURE: 15-20 LBS IF DRILLED; 20-25 LBS. IF BROADCAST, SEED SHALL BE CERTIFIED NOXIOUS WEED FREE.
9. PROJECT CLOSEOUT: MAKE WRITTEN REQUEST FOR "INSPECTION" PRIOR TO SEEDING AND AFTER AREAS HAVE BEEN SEEDED. SUBMIT REQUESTS FOR INSPECTION TO A/E AT LEAST 72 HOURS PRIOR TO THE ANTICIPATED DATE.
10. GUARANTEE: CONTRACTOR SHALL RESEED AND REMULCH AREAS DETERMINED BY THE A/E AS DEFICIENT IN COVERAGE. SUCH REWORK SHALL BE PERFORMED IMMEDIATELY UPON NOTIFICATION BY A/E IF WITHIN SEEDING SEASON; REWORK SHALL BE SCHEDULED IMMEDIATELY IF NOT WITHIN SEEDING SEASON.
11. CONTRACTOR, PER STATE LAND OFFICE, NO DIRT TO BE REMOVED FROM STATE LAND OFFICE LAND.
12. CONTRACTOR SHALL STOCKPILE VEGETATION STRIPPING MATERIAL AND TOPSOIL FOR USE IN RE-VEGETATION.

LEGEND

- ⊙ EXISTING MANHOLE
- ⊕ EXISTING BIG GUN SPRINKLER
- W — EXISTING WATER LINE
- FO — EXISTING FIBER OPTIC LINE
- NEW MANHOLE
- NEW SEWER LINE
- FLOW ARROW

ABBREVIATIONS

ALUM	ALUMINUM	NMED	NEW MEXICO ENVIRONMENT DEPARTMENT
AV	AIR VALVE	NMDOT	NEW MEXICO DEPARTMENT OF TRANSPORTATION
AWWA	AMERICAN WATER WORKS ASSOCIATION	NTS	NOT TO SCALE
BH	BOREHOLE	Ø	DIAMETER
CAV	COMBINATION AIR VALVE	OPR	OWNER'S PROJECT REPRESENTATIVE
CMP	CORRUGATED METAL PIPE	PH	POTHOLE
DIP	DUCTILE IRON PIPE	PG	PAGE
DPCO	DOUBLE PRESSURE CLEANOUT	PNM	PUBLIC SERVICE COMPANY OF NEW MEXICO
DR	DIAMETER RATIO	PRV	PRESSURE REDUCING VALVE
FD	FLOOR DRAIN	PVC	POLYVINYL CHLORIDE
FL	FLANGE	ROW	RIGHT OF WAY
FT	FOOT	SFCO	SANTA FE COUNTY
LF	LINEAR FEET	SFCU	SANTA FE COUNTY UTILITIES
LOE	LIMIT OF EXCAVATION	SS	STAINLESS STEEL
MH	MANHOLE	STA	STATION
MJ	MECHANICAL JOINT	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	WL	WATERLINES

MOLZENCORBIN

2701 Miles Road SE
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505 242 5700 office
505 242 0673 fax
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NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE
PAYMENT WITHIN 45 DAYS AFTER SUBMISSION
OF AN UNDISPUTED REQUEST FOR PAYMENT



REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

	PROJECT NAME:
	ABAJO LIFT STATION RE-DIRECT

CONSTRUCTION NOTES AND PUBLIC UTILITY CONTACT INFORMATION	
APPROVED BY:	REVIEWED BY: S. MORROW
DATE: SEPTEMBER 2025	SHEET :
DRAWN BY: JIG	G-002

PUBLIC UTILITY CONTACTS				
CABLE TV	COMCAST	2534 CAMINO ENTRADA, S.F., N.M.	1-505-474-7886	DAVE AIKIN
TELECOMMUNICATIONS	CENTURYLINK	2701 SAWMILL ROAD, S.F., N.M.	1-505-425-9345	LORENZO LUJAN
ELECTRIC	PNM	4645 STATE HWY 14, S.F., N.M.	1-505-473-3279	DON FERRIS
GAS	GAS CO. of N.M.	6 FOREST LANE, S.F., N.M.	1-505-470-0668	FRANK ARAGON
SEWER/WATER/STORM/SWPPP	S.F. CO. UTILITIES	424 NM 599, S.F., N.M.	1-505-490-0038	SCOTT PERRY
SEWER/WATER	S.F. CO. UTILITIES	424 NM 599, S.F., N.M.	1-505-995-2748	JOEL MURRAY
SANTA FE COUNTY	S.F. CO. UTILITIES	424 NM 599, S.F., N.M.	1-505-490-0117	TRAVIS SODERQUIST

NMDOT NOTES

1.

WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE NMDOT'S STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION AND TO THE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
2.

WORK SHALL BE PERFORMED SO THAT DANGER, INCONVENIENCE, AND DELAY TO THE TRAVELING PUBLIC IS HELD TO A MINIMUM.
3.

PLANS TO PROTECT AND HANDLE TRAFFIC DURING CONSTRUCTION SHALL BE SUBMITTED FOR REVIEW TO NMDOT PRIOR TO CONSTRUCTION
4.

ALL TEMPORARY TRAFFIC CONTROL ASSOCIATED WITH WORK IN NMDOT RIGHT-OF-WAY MUST FULLY MEET THE REQUIREMENTS OF THE NEW MEXICO DEPARTMENT OF TRANSPORTATION (NMDOT) DISTRICT 1 AND DISTRICT 5.

MOLZENCORBIN


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UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

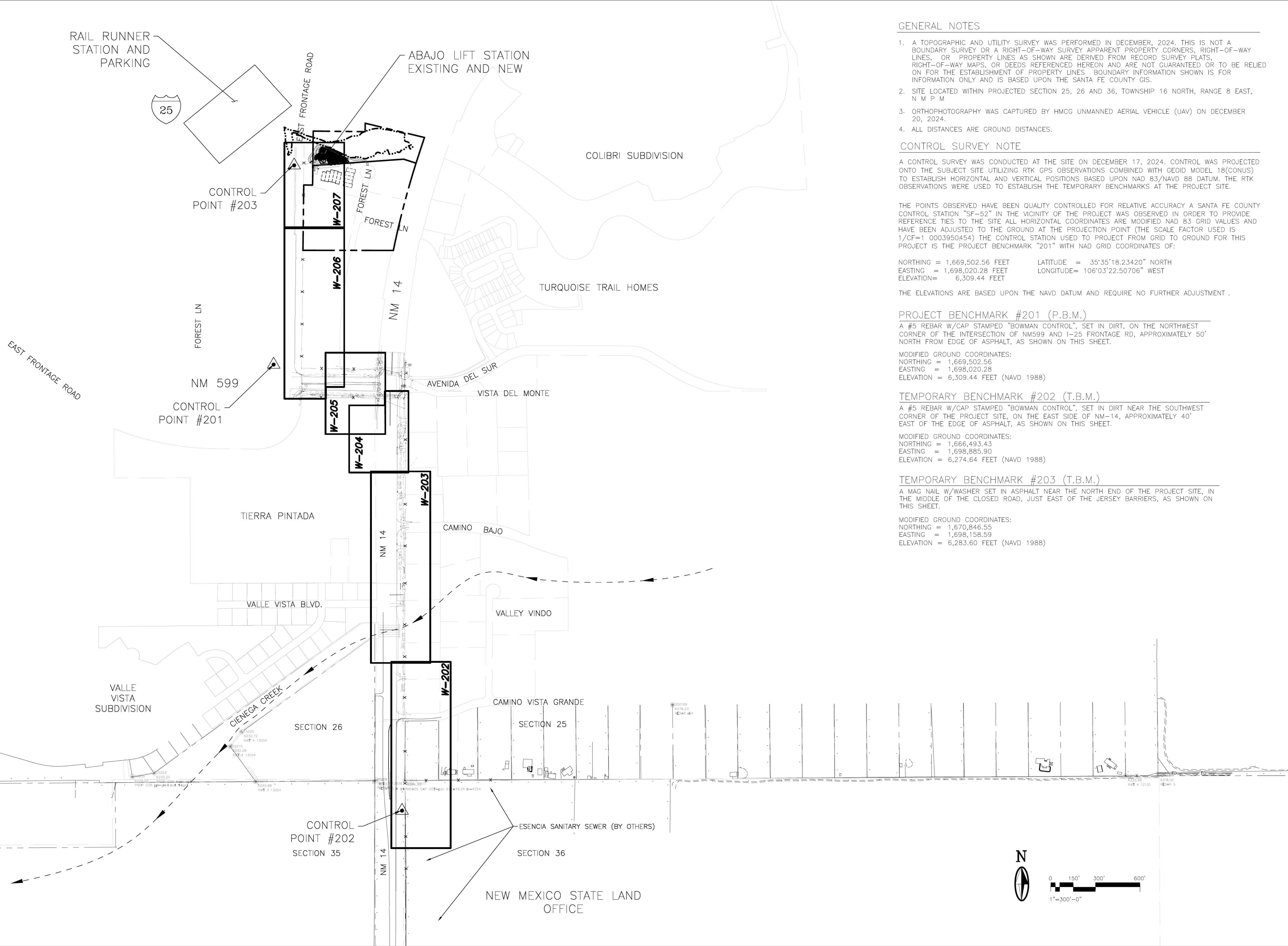


SANTA FE COUNTY

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

CONSTRUCTION NOTES II

APPROVED BY:		REVIEWED BY: S. MORROW
DATE: SEPTEMBER 2025		SHEET :
DRAWN BY: JIG		G-003



- GENERAL NOTES
1. A TOPOGRAPHIC AND UTILITY SURVEY WAS PERFORMED IN DECEMBER, 2024. THIS IS NOT A BOUNDARY SURVEY OR A RIGHT-OF-WAY SURVEY. APPARENT PROPERTY CORNERS, RIGHT-OF-WAY LINES, OR PROPERTY LINES AS SHOWN ARE DERIVED FROM RECORD SURVEY PLATS, RIGHT-OF-WAY MAPS, OR DEEDS REFERENCED HEREON AND ARE NOT GUARANTEED OR TO BE RELIED ON FOR THE ESTABLISHMENT OF PROPERTY LINES. BOUNDARY INFORMATION SHOWN IS FOR INFORMATION ONLY AND IS BASED UPON THE SANTA FE COUNTY GIS.
 2. SITE LOCATED WITHIN PROJECTED SECTION 25, 26 AND 36, TOWNSHIP 16 NORTH, RANGE 8 EAST, N M P M.
 3. ORTHOPHOTOGRAPHY WAS CAPTURED BY HMCg UNMANNED AERIAL VEHICLE (UAV) ON DECEMBER 20, 2024.
 4. ALL DISTANCES ARE GROUND DISTANCES.

CONTROL SURVEY NOTE

A CONTROL SURVEY WAS CONDUCTED AT THE SITE ON DECEMBER 17, 2024. CONTROL WAS PROJECTED ONTO THE SUBJECT SITE UTILIZING RTK GPS OBSERVATIONS COMBINED WITH GEOID MODEL 18(CONUS) TO ESTABLISH HORIZONTAL AND VERTICAL POSITIONS BASED UPON NAD 83/NAVD 88 DATUM. THE RTK OBSERVATIONS WERE USED TO ESTABLISH THE TEMPORARY BENCHMARKS AT THE PROJECT SITE.

THE POINTS OBSERVED HAVE BEEN QUALITY CONTROLLED FOR RELATIVE ACCURACY A SANTA FE COUNTY CONTROL STATION "SF-52" IN THE VICINITY OF THE PROJECT WAS OBSERVED IN ORDER TO PROVIDE REFERENCE TIES TO THE SITE. ALL HORIZONTAL COORDINATES ARE MODIFIED NAD 83 GRID VALUES AND HAVE BEEN ADJUSTED TO THE GROUND AT THE PROJECTION POINT (THE SCALE FACTOR USED IS 1/CF=1.0003950454) THE CONTROL STATION USED TO PROJECT FROM GRID TO GROUND FOR THIS PROJECT IS THE PROJECT BENCHMARK "201" WITH NAD GRID COORDINATES OF:

NORTHING = 1,669,502.56 FEET LATITUDE = 35°35'18.23420" NORTH
EASTING = 1,698,020.28 FEET LONGITUDE = 106°03'22.50706" WEST
ELEVATION = 6,309.44 FEET

THE ELEVATIONS ARE BASED UPON THE NAVD DATUM AND REQUIRE NO FURTHER ADJUSTMENT.

PROJECT BENCHMARK #201 (P.B.M.)

A #5 REBAR W/CAP STAMPED "BOWMAN CONTROL", SET IN DIRT, ON THE NORTHWEST CORNER OF THE INTERSECTION OF NM599 AND I-25 FRONTAGE RD, APPROXIMATELY 50' NORTH FROM EDGE OF ASPHALT, AS SHOWN ON THIS SHEET.

MODIFIED GROUND COORDINATES:
NORTHING = 1,669,502.56
EASTING = 1,698,020.28
ELEVATION = 6,309.44 FEET (NAVD 1988)

TEMPORARY BENCHMARK #202 (T.B.M.)

A #5 REBAR W/CAP STAMPED "BOWMAN CONTROL", SET IN DIRT NEAR THE SOUTHWEST CORNER OF THE PROJECT SITE, ON THE EAST SIDE OF NM-14, APPROXIMATELY 40' EAST OF THE EDGE OF ASPHALT, AS SHOWN ON THIS SHEET.

MODIFIED GROUND COORDINATES:
NORTHING = 1,666,493.43
EASTING = 1,698,885.90
ELEVATION = 6,274.64 FEET (NAVD 1988)

TEMPORARY BENCHMARK #203 (T.B.M.)

A MAG NAIL W/WASHER SET IN ASPHALT NEAR THE NORTH END OF THE PROJECT SITE, IN THE MIDDLE OF THE CLOSED ROAD, JUST EAST OF THE JERSEY BARRIERS, AS SHOWN ON THIS SHEET.

MODIFIED GROUND COORDINATES:
NORTHING = 1,670,846.55
EASTING = 1,698,158.59
ELEVATION = 6,283.60 FEET (NAVD 1988)

MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
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505 242 0673 fax
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NOTICE OF EXTENDED PAYMENT PROVISION:
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PAYMENT WITHIN 45 DAYS AFTER SUBMISSION
OF AN UNDISPUTED REQUEST FOR PAYMENT

REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

SANTA FE COUNTY

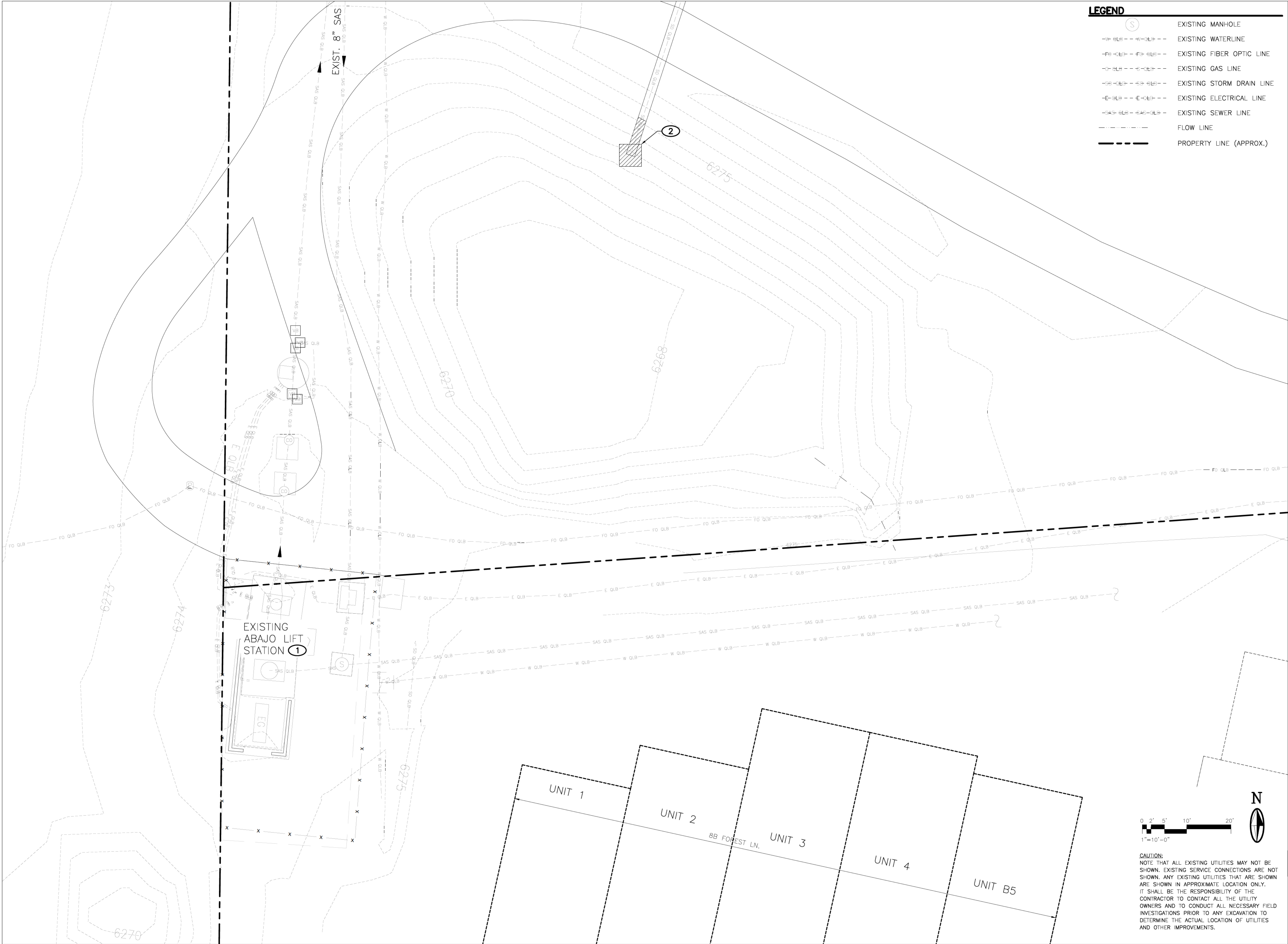
PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

SURVEY CONTROL AND SHEET KEY

APPROVED BY: REVIEWED BY: S. MORROW

DATE: SEPTEMBER 2025 SHEET: G-004

DRAWN BY: JIG



- LEGEND**
- EXISTING MANHOLE
 - EXISTING WATERLINE
 - EXISTING FIBER OPTIC LINE
 - EXISTING GAS LINE
 - EXISTING STORM DRAIN LINE
 - EXISTING ELECTRICAL LINE
 - EXISTING SEWER LINE
 - FLOW LINE
 - PROPERTY LINE (APPROX.)

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KEYED NOTES

- EXISTING LIFT STATION AND PROCESS PIPING NOT TO BE DISTURBED DURING CONSTRUCTION UNTIL AFTER NEW WET WELL AND ASSOCIATED PROCESS PIPING ARE PUT INTO SERVICE.
- EXISTING DRAINAGE POND OUTLET AND PIPE TO BE MODIFIED SEE DETAIL SHEET C-501. EXISTING DRAINAGE PATTERNS TO BE MAINTAINED.



REVISION		
SYMBOL	DATE:	BY:

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UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

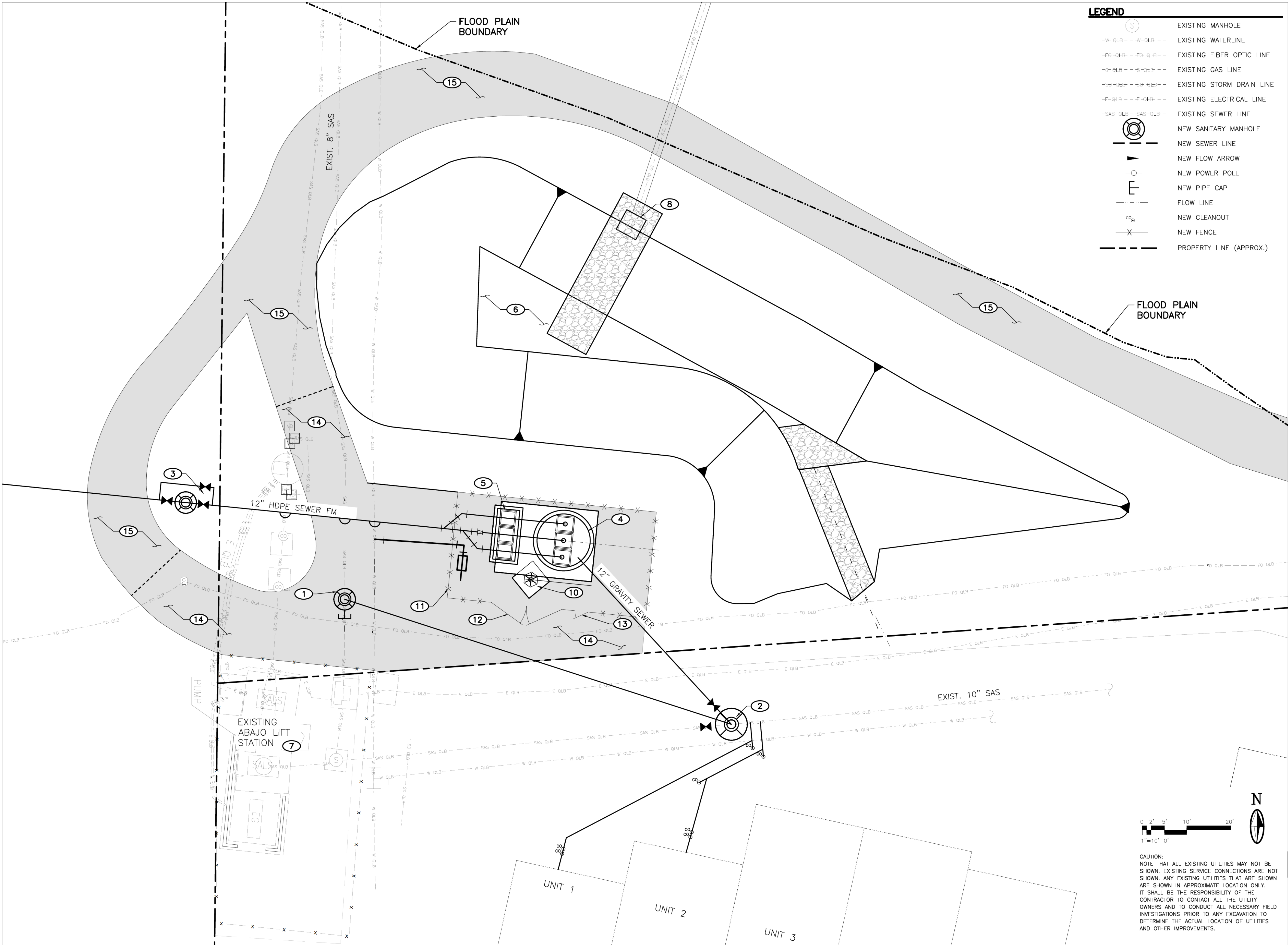


SANTA FE COUNTY

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

EXISTING SITE CONDITIONS AND
DEMOLITION PLAN

APPROVED BY:	REVIEWED BY: S. MORROW
DATE: SEPTEMBER 2025	SHEET :
DRAWN BY: JMB	C-101



- LEGEND**
- EXISTING MANHOLE
 - EXISTING WATERLINE
 - EXISTING FIBER OPTIC LINE
 - EXISTING GAS LINE
 - EXISTING STORM DRAIN LINE
 - EXISTING ELECTRICAL LINE
 - EXISTING SEWER LINE
 - NEW SANITARY MANHOLE
 - NEW SEWER LINE
 - NEW FLOW ARROW
 - NEW POWER POLE
 - NEW PIPE CAP
 - FLOW LINE
 - NEW CLEANOUT
 - NEW FENCE
 - PROPERTY LINE (APPROX.)

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NOTICE OF EXTENDED PAYMENT PROVISION:
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KEYED NOTES

- CONSTRUCT 4' DIVERSION MANHOLE A. SEE WATER SHEETS
- CONSTRUCT 8' DIVERSION MANHOLE A. SEE WATER SHEETS
- 6" FLOW METER VAULT WITH BYPASS PIPE. SEE WATER SHEETS
- LIFT STATION WET WELL WITH ALUMINUM HATCHES. SEE WATER SHEETS
- UNDERGROUND VALVE VAULT WITH COVER AND ALUMINUM HATCHES. SEE WATER SHEETS
- RELOCATED POND, SEE GRADING PLAN SHEET C-103.
- EXISTING LIFT STATION AND PROCESS PIPING NOT TO BE DISTURBED DURING CONSTRUCTION UNTIL AFTER NEW WET WELL AND TRANSFER PUMP ARE PUT INTO SERVICE. SEE WATER SHEETS
- EXISTING DRAINAGE POND OUTLET AND PIPE TO BE MODIFIED SEE DETAIL SHEET C-501. EXISTING DRAINAGE PATTERNS TO BE MAINTAINED.
- NOT USED
- JIB CRANE ON CONCRETE PAD. SEE WATER SHEETS
- SECURITY FENCE SURROUNDING NEW LIFT STATION, SEE DETAILS SHEET C-502.
- 16'-0" DOUBLE SWING GATE SEE DETAIL SHEET C-503
- 3' PEDESTRIAN GATE SEE DETAIL SHEET C-503
- 6" BASE COURSE SECTION SEE DETAIL SHEET C-501. MATCH EXISTING GRADE
- 6" BASE COURSE SECTION SEE DETAIL SHEET C-501 (ADD. ALT. #1). SEE SHEET C-104 FOR LIMITS. MATCH EXISTING GRADE

Steven K. Morrow
STEVEN K. MORROW
NEW MEXICO
13679
REGISTERED PROFESSIONAL ENGINEER
9-18-2025

REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

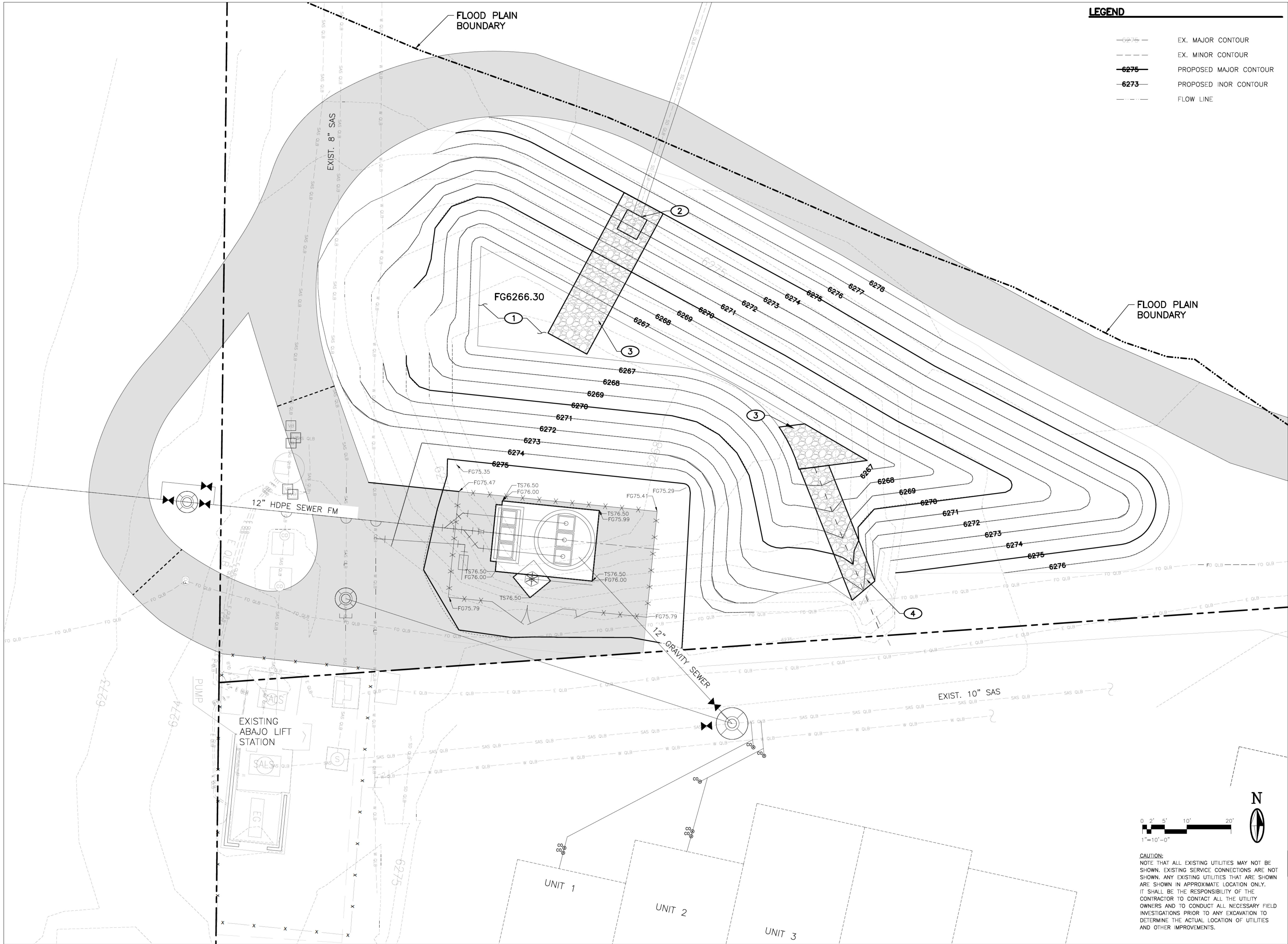
PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

SITE PLAN

APPROVED BY: **REVIEWED BY:** S. MORROW
DATE: SEPTEMBER 2025
DRAWN BY: MC

SHEET:
C-102

CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE SHOWN IN APPROXIMATE LOCATION ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.



LEGEND	
	EX. MAJOR CONTOUR
	EX. MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED INOR CONTOUR
	FLOW LINE

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KEYED NOTES

1. RELOCATED DRAINAGE POND
EXISTING POND VOLUME: 26,891 CF
GRADED VOLUME: 30,279 CF
2. NEW PIPE INVERT INV.=6274.00±
3. 9" RIP-RAP BLANKET SEE DETAIL SHEET C-501
4. 9" RIP-RAP RUNDOWN SEE DETAIL SHEET C-501



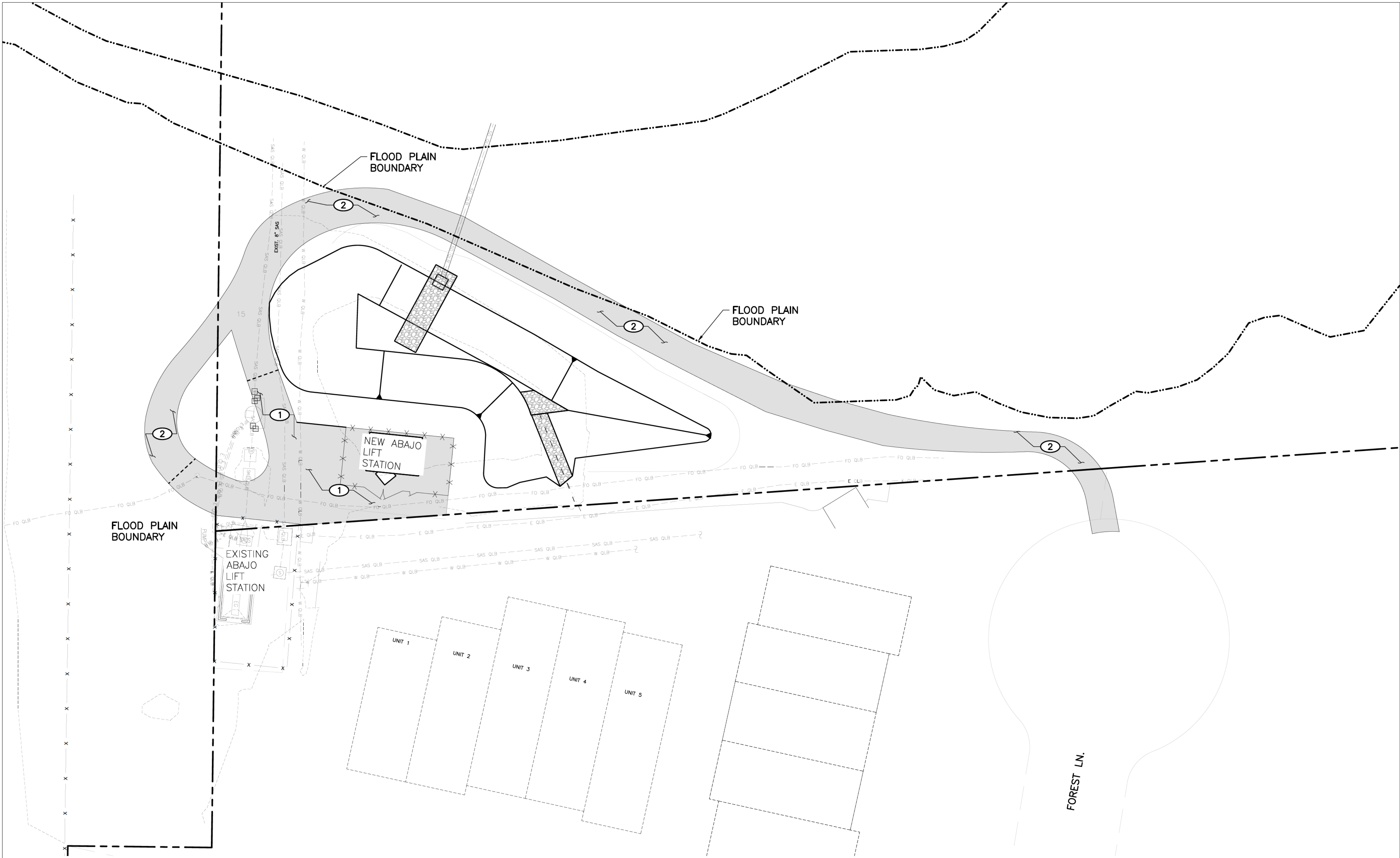
REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

GRADING AND DRAINAGE PLAN

APPROVED BY: REVIEWED BY: S. MORROW
DATE: SEPTEMBER 2025 SHEET :
DRAWN BY:



MOLZENCORBIN

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NOTICE OF EXTENDED PAYMENT PROVISION:
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KEYED NOTES

1. 6" BASE COURSE SECTION SEE DETAIL SHEET C-50X
2. 6" BASE COURSE SECTION SEE DETAIL SHEET C-50X (ADD. ALT. #1).



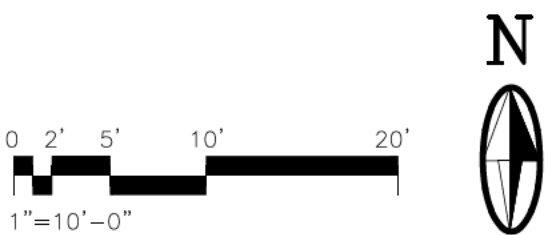
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UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

ADDITIVE ALTERNATE #1 LIMITS

APPROVED BY: **REVIEWED BY: S. MORROW**
DATE: SEPTEMBER 2025 **SHEET:**
DRAWN BY: MC **C-102**

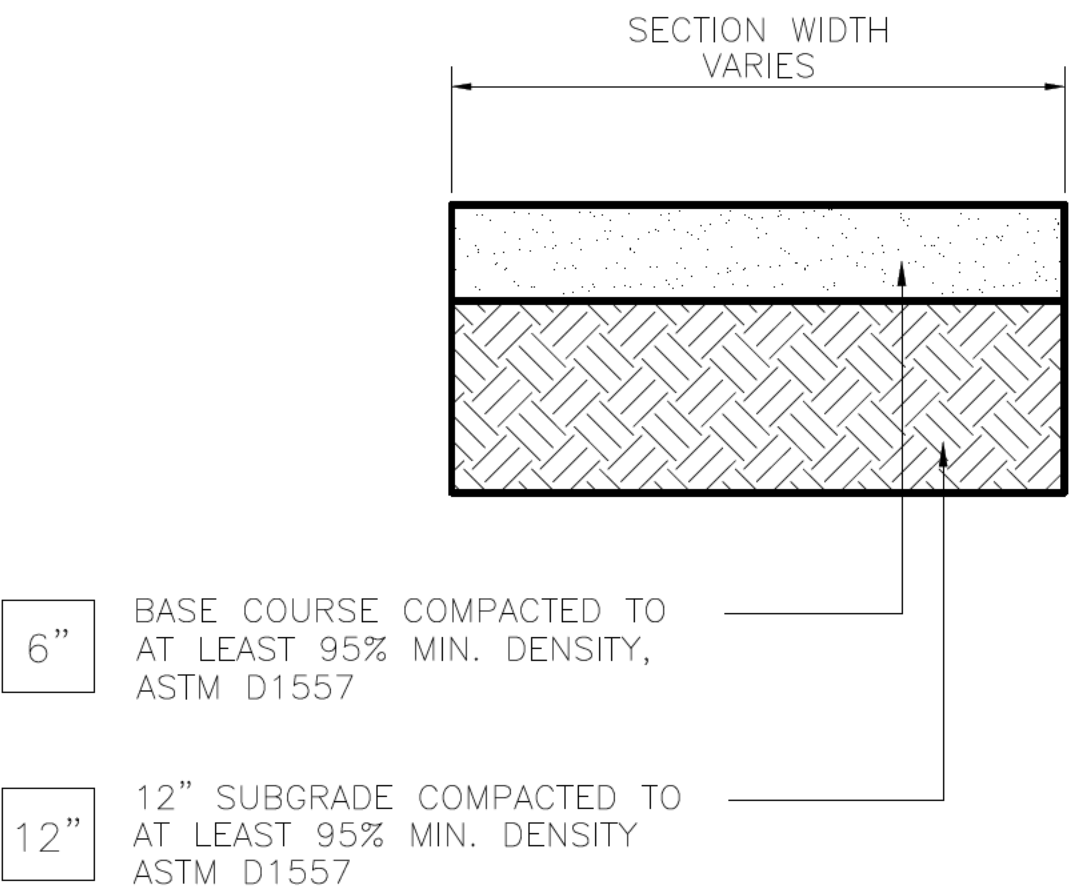


CAUTION:
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IT SHALL BE THE RESPONSIBILITY OF THE
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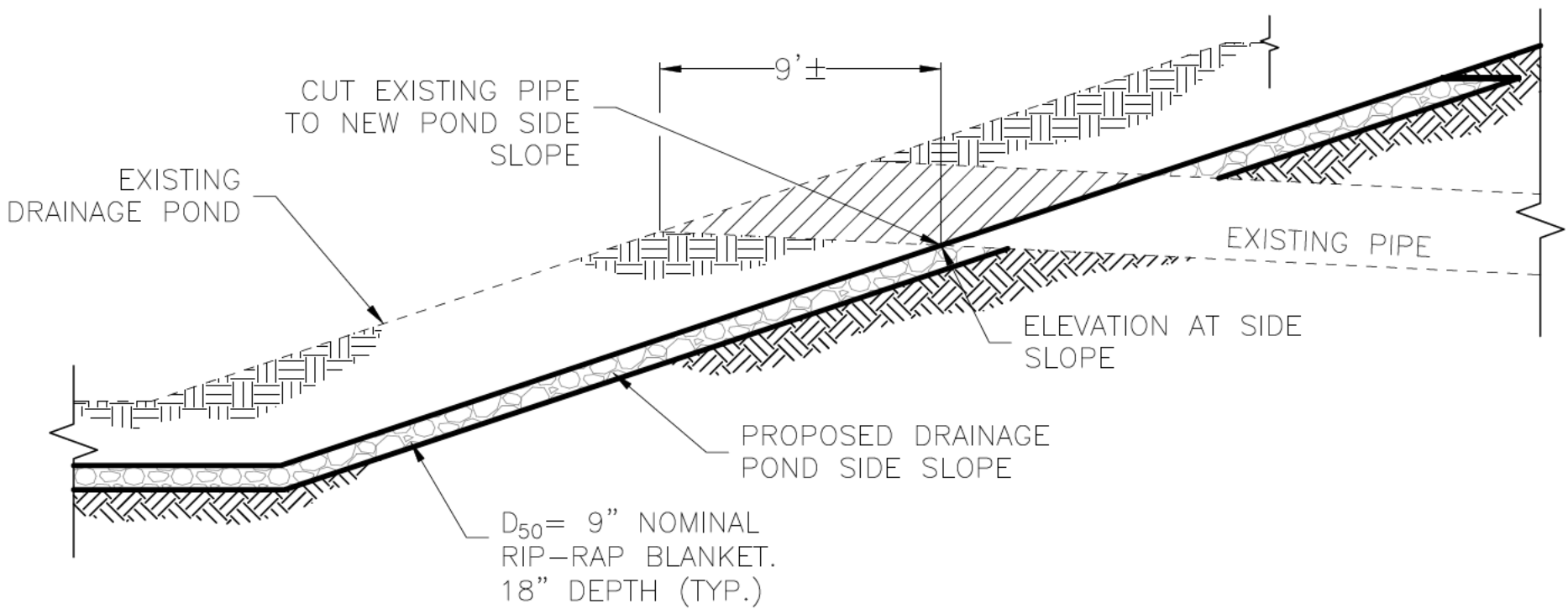
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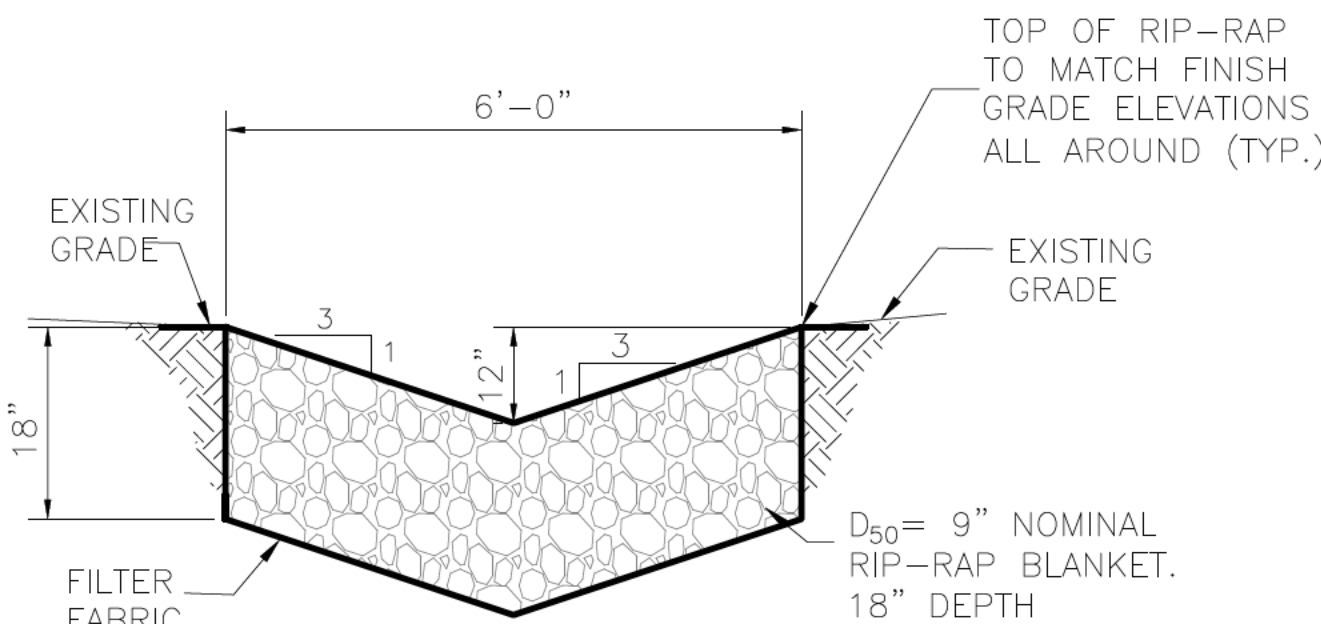
BASE COURSE SECTION

SCALE: N.T.S.



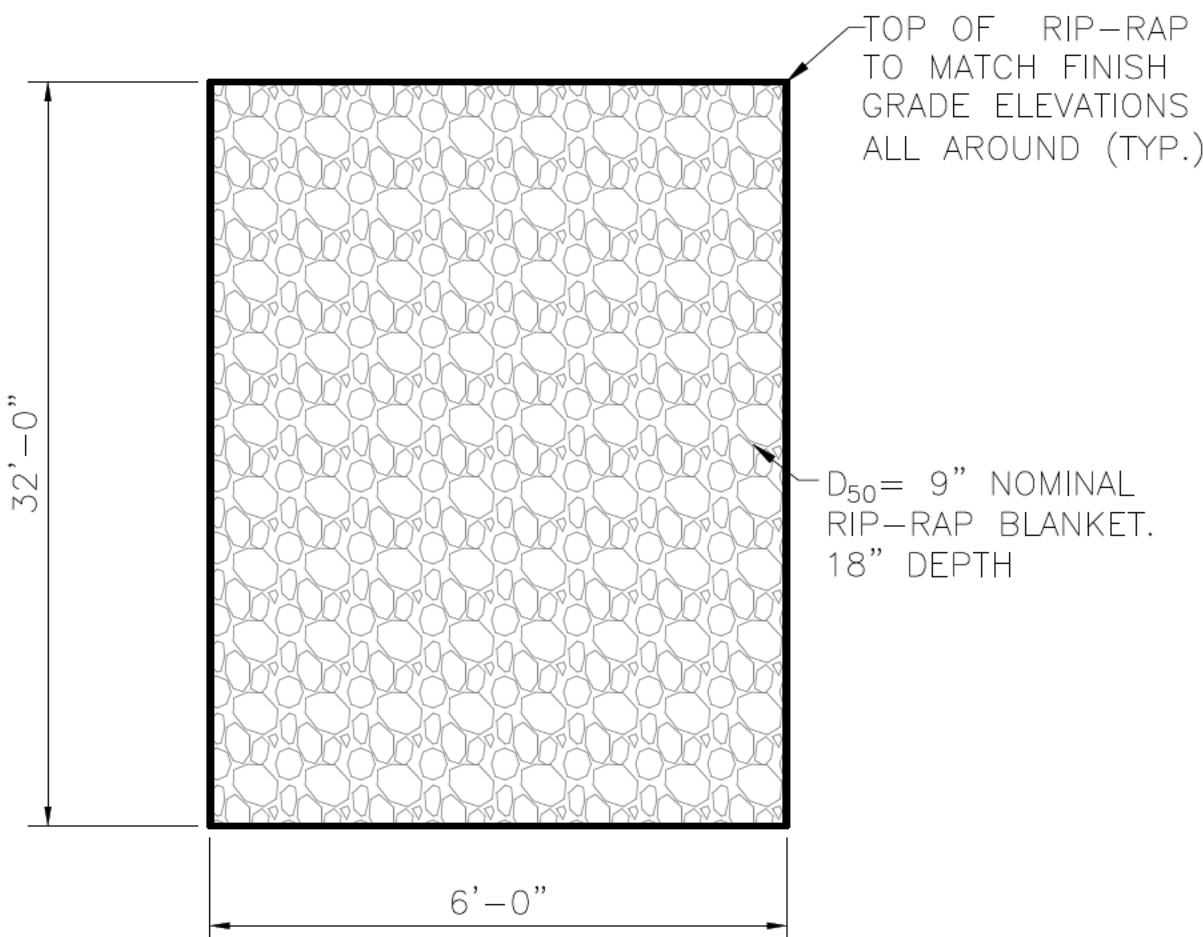
EXISTING PIPE REMOVAL PROFILE

SCALE: N.T.S.



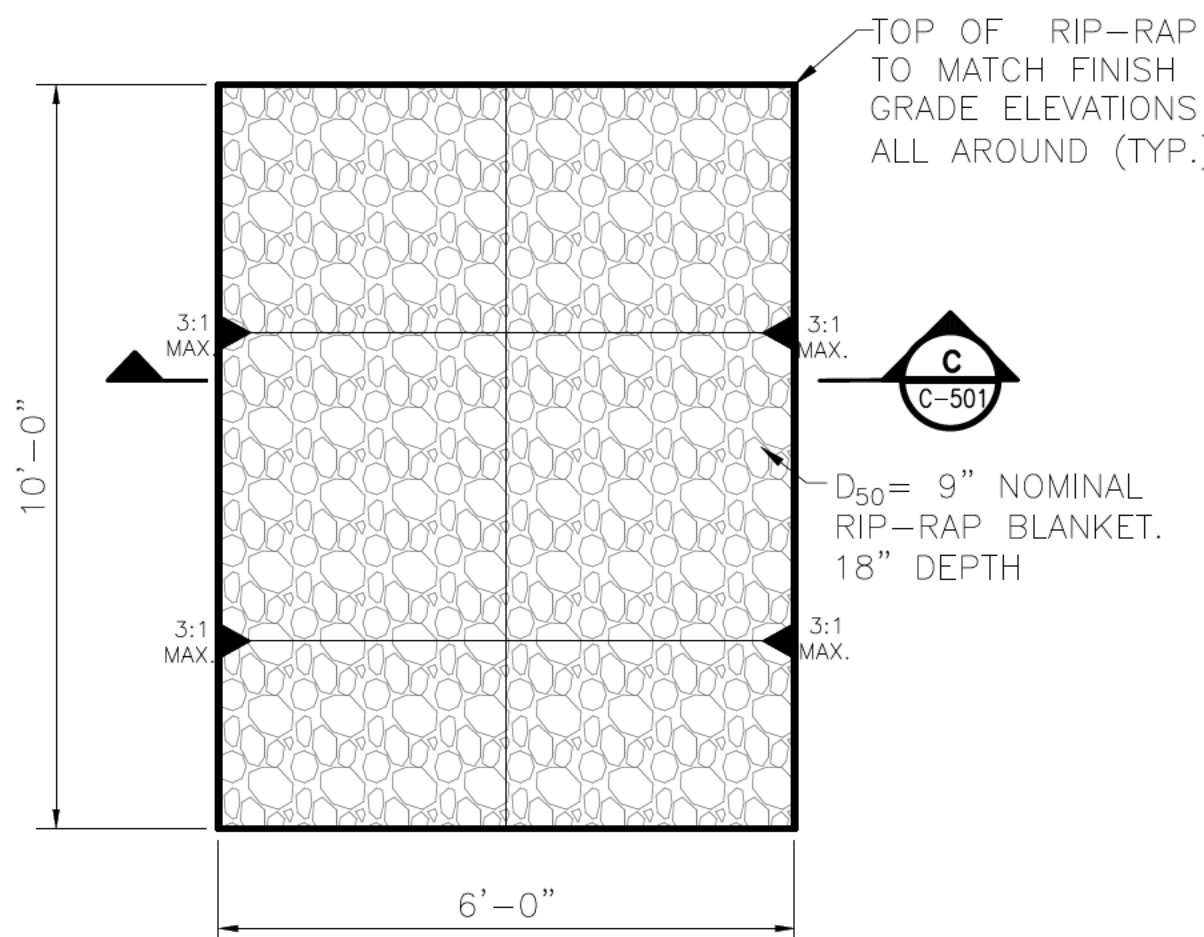
RIP-RAP SECTION

SCALE: N.T.S.



RIP-RAP BLANKET

SCALE: N.T.S.



RIP-RAP SWALE

SCALE: N.T.S.



REVISION		
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UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
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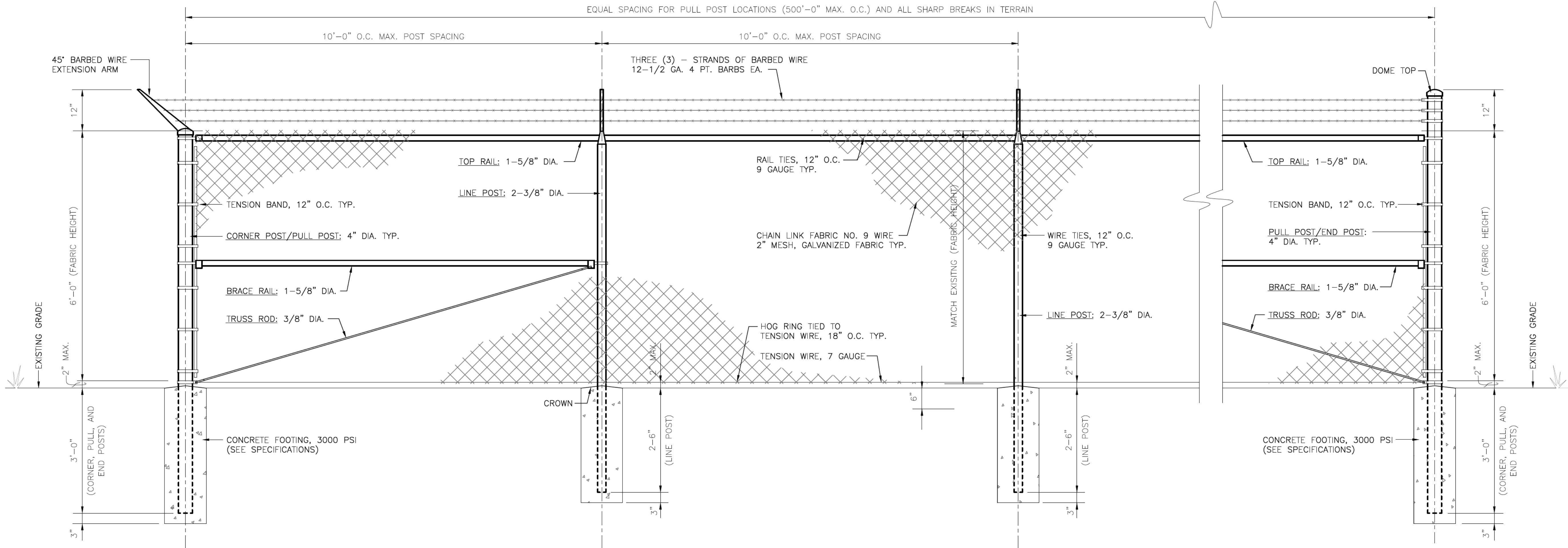
MISCELLANEOUS DETAILS

APPROVED BY: REVIEWED BY: S. MORROW
DATE: SEPTEMBER 2025 SHEET :
DRAWN BY: MC C-501

MOLZENCORBIN

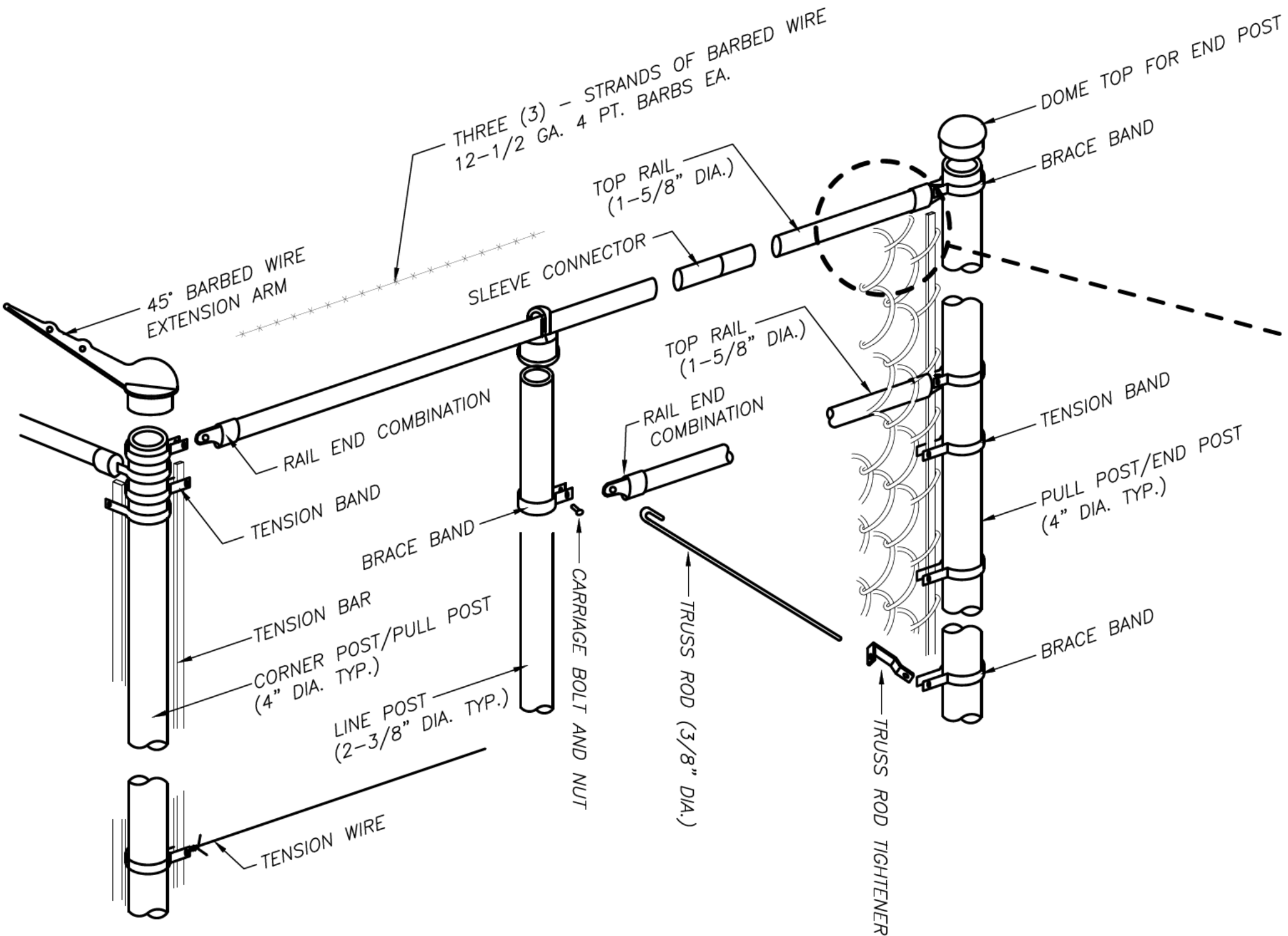
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TYPICAL FENCE SECTION

SCALE: 3/4"=1'-0"



TYPICAL FENCE COMPONENT SECTION

SCALE: NONE

FENCING GENERAL NOTES

1. TOP AND BOTTOM SELVAGES TO HAVE A TWISTED AND BARBED FINISH.
2. DIAMETER (O.D.) SHOWN HEREON ARE NOMINAL SIZES AS ESTABLISHED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE.
3. EXTENSION ARMS TO BE HOT-DIP GALVANIZED. LINE POST ARMS TO BE PRESSED STEEL, END AND CORNER POST ARMS TO BE MALLEABLE IRON, GATE POSTS TO HAVE A BALL TOP. EACH ARM TO CARRY 3 BARBED WIRES AT AN ANGLE OF 45°. THE TOP MOST BARBED WIRE TO BE APPROXIMATELY 12" ABOVE THE FABRIC AND APPROXIMATELY 12" IN OR CUT FROM FENCE LINE, AS DIRECTED BY THE ENGINEER. ALL BARBED WIRES TO BE SECURELY FASTENED IN SLOTS BY HEAVY WIRE PINS. ARMS HAVING PROJECTIONS TO BE BENT DOWN OVER BARBED WIRE MAY NOT BE USED.



REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
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PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

FENCE AND GATE DETAILS

APPROVED BY: REVIEWED BY: S. MORROW
DATE: AUGUST 2025 SHEET: C-502
DRAWN BY:

MOLZENCORBIN

2701 Miles Road SE
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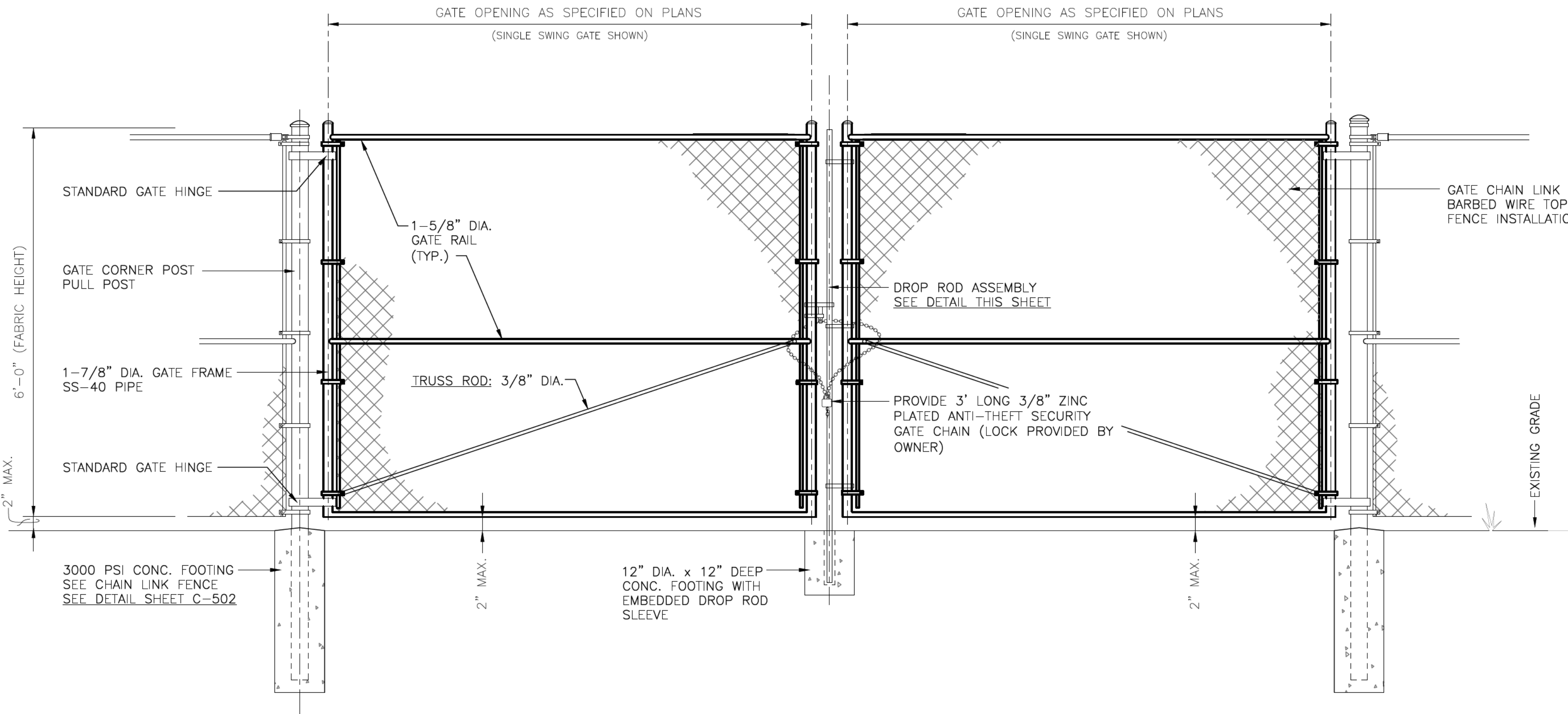


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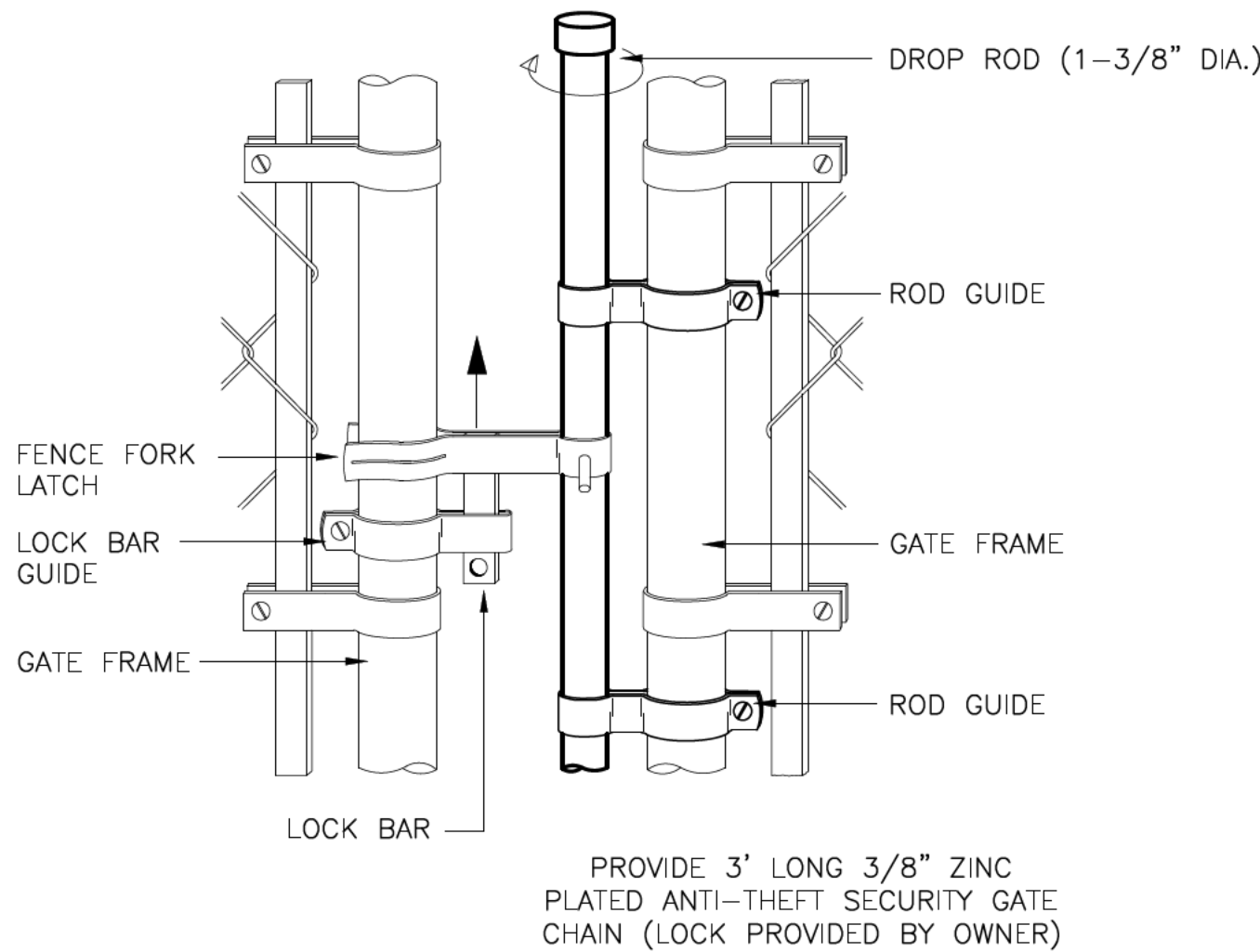
PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

FENCE AND GATE DETAILS
APPROVED BY: REVIEWED BY: S. MORROW
DATE: AUGUST 2025 SHEET :
DRAWN BY: C-503



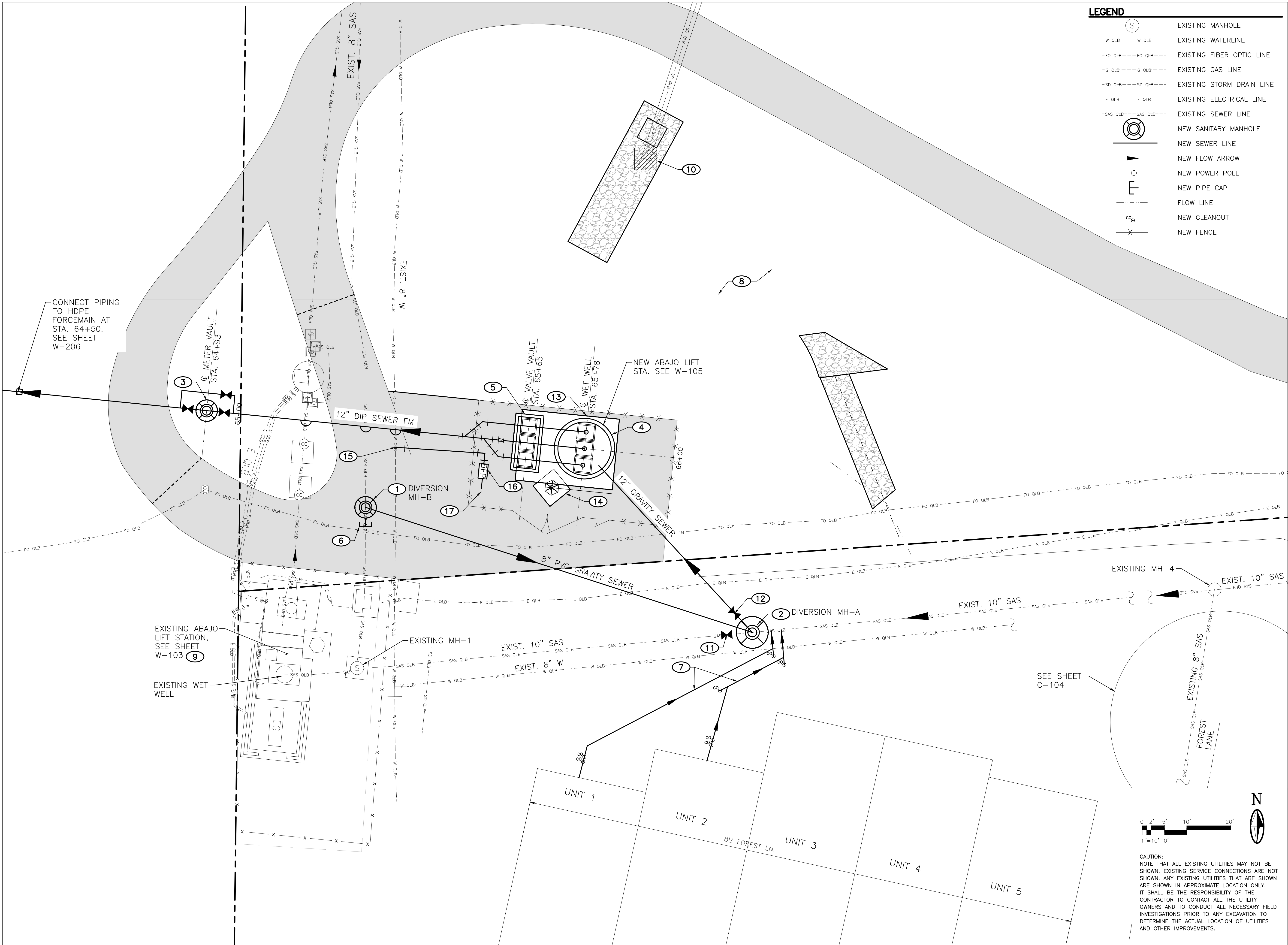
STANDARD MANUAL DOUBLE SWING GATE — DETAIL

SCALE: NONE



DOUBLE SWING GATE DROP ROD ASSEMBLY — DETAIL

SCALE: NONE



LEGEND	
	EXISTING MANHOLE
-W QLB-----W QLB----	EXISTING WATERLINE
-FO QLB-----FO QLB----	EXISTING FIBER OPTIC LINE
-G QLB-----G QLB----	EXISTING GAS LINE
-SD QLB-----SD QLB----	EXISTING STORM DRAIN LINE
-E QLB-----E QLB----	EXISTING ELECTRICAL LINE
-SAS QLB-----SAS QLB----	EXISTING SEWER LINE
	NEW SANITARY MANHOLE
	NEW SEWER LINE
	NEW FLOW ARROW
	NEW POWER POLE
	NEW PIPE CAP
	FLOW LINE
	NEW CLEANOUT
	NEW FENCE

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KEYED NOTES

- NEW DIVERSION MH-B. SEE SHEET W-505.
- NEW DIVERSION MH-A. SEE SHEET W-505.
- 10" FLOW METER VAULT WITH BYPASS PIPE, SEE SHEET W-506 FOR DETAILS.
- LIFT STATION WET WELL WITH ALUMINUM HATCHES.
- UNDERGROUND VALVE VAULT WITH COVER AND ALUMINUM HATCHES.
- CAP AND ABANDON EXISTING SEWERLINE.
- FIELD-LOCATE AND TIE EXISTING GRAVITY SEWER SERVICES INTO EXISTING 10" SEWER.
- RELOCATED POND, SEE GRADING PLAN.
- EXISTING LIFT STATION AND PROCESS PIPING NOT TO BE DISTURBED DURING CONSTRUCTION. EXISTING DRAINAGE PATTERNS TO BE MAINTAINED.
- INSTALL 10" PLUG VALVE ON EXISTING SEWER. SEE SHEET W-505.
- INSTALL 12" PLUG VALVE ON NEW 12" SEWER. SEE SHEET W-505.
- CONCRETE PAD, SEE CIVIL.
- JIB CRANE ON CONCRETE FOUNDATION.
- TAP EXISTING 8" WATER WITH 1" PEX SERVICE LINE.
- 1" REDUCED PRESSURE BACKFLOW PREVENTER, AND HEATED ENCLOSURE. SEE SHEET W-504 FOR DETAIL.
- 1" FROST PROOF YARD HYDRANT, SEE SHEET W-507 FOR DETAIL.

REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

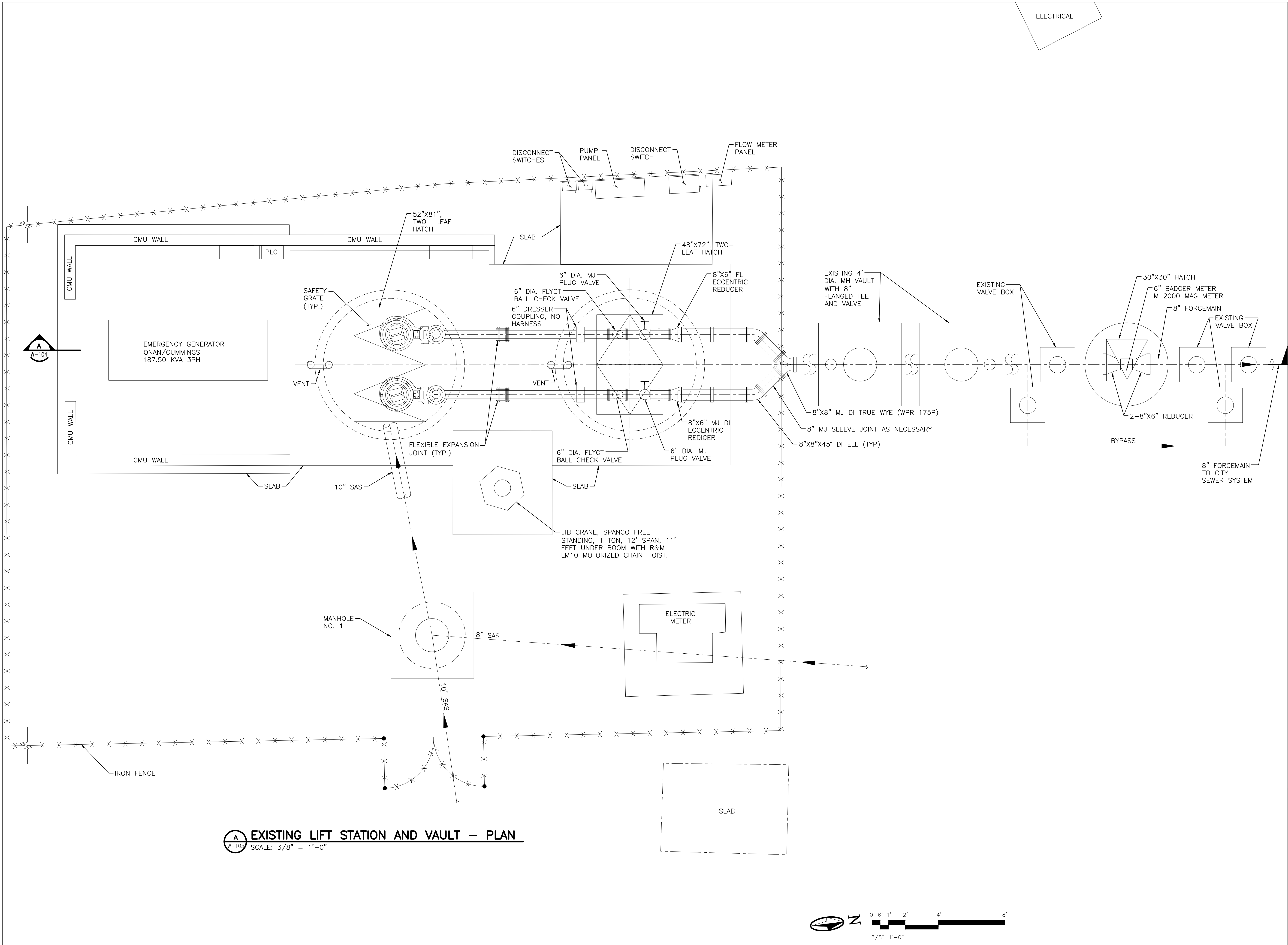
PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

LIFT STATION UTILITY PLAN

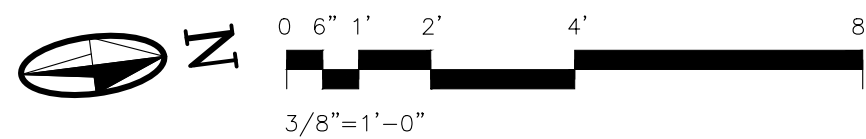
APPROVED BY:
DATE: SEPTEMBER 2025
DRAWN BY:

REVIEWED BY: S. MORROW

SHEET :
W-101



EXISTING LIFT STATION AND VAULT – PLAN
SCALE: 3/8" = 1'-0"



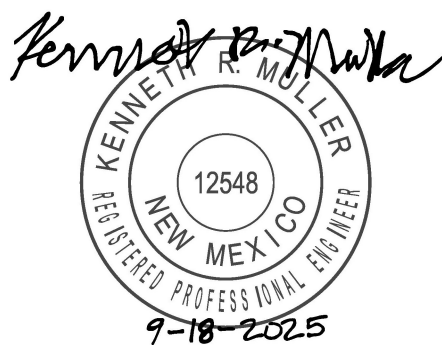
MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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

- THIS SHEET IS SHOWN FOR REFERENCE.
- NO NEW WORK IS SHOWN ON THIS SHEET.



REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

EXISTING LIFT STATION MODIFICATIONS - PLAN

APPROVED BY: _____ REVIEWED BY: S. MORROW
DATE: SEPTEMBER 2025 SHEET: _____
DRAWN BY: _____ SHEET: W-103

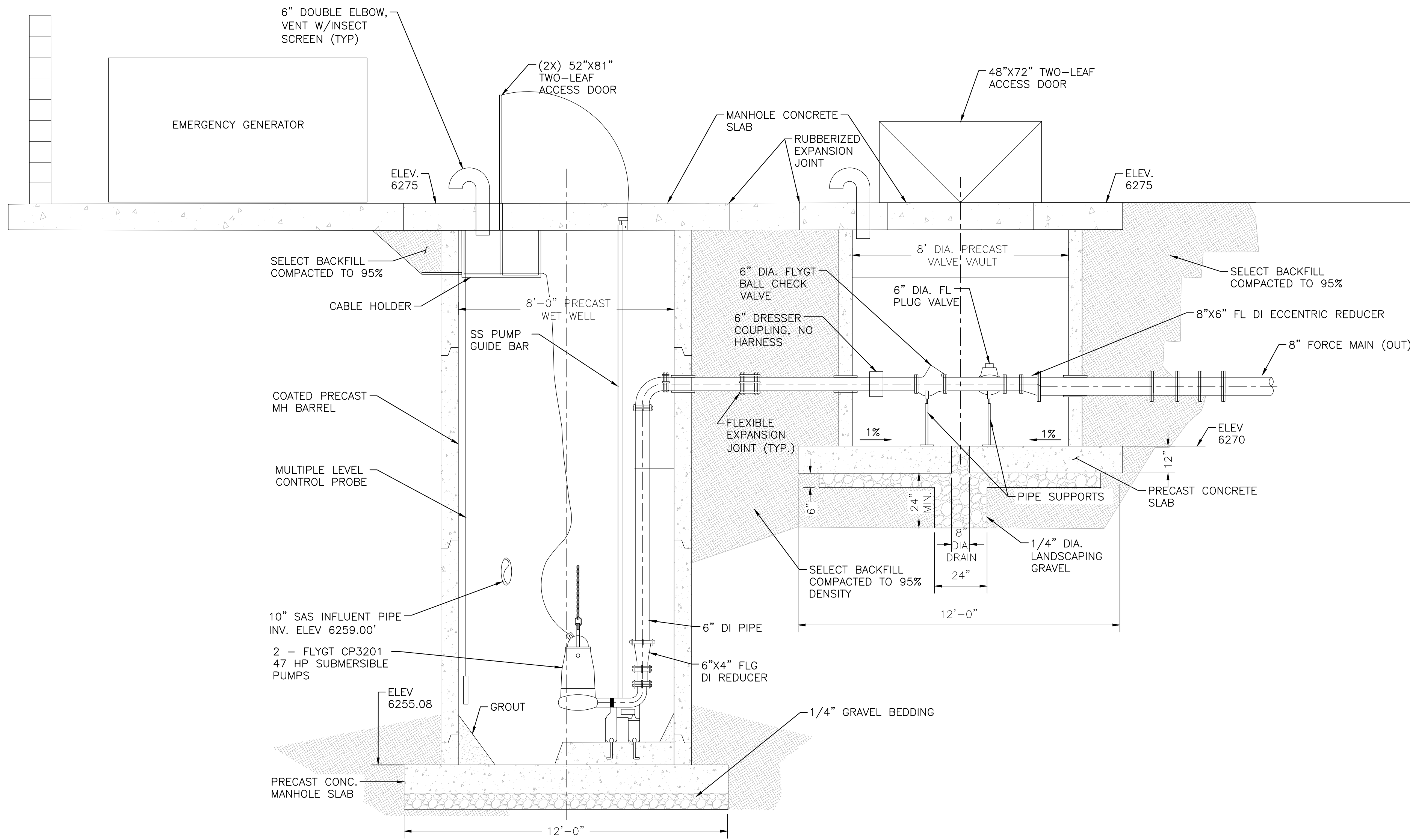
MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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GENERAL NOTES

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- NO NEW WORK IS SHOWN ON THIS SHEET.



EXISTING ABAJO LIFT STATION AND VAULT – SECTION
SCALE: 3/8" = 1'-0"



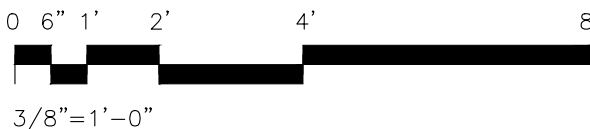
REVISION		
SYMBOL	DATE:	BY:

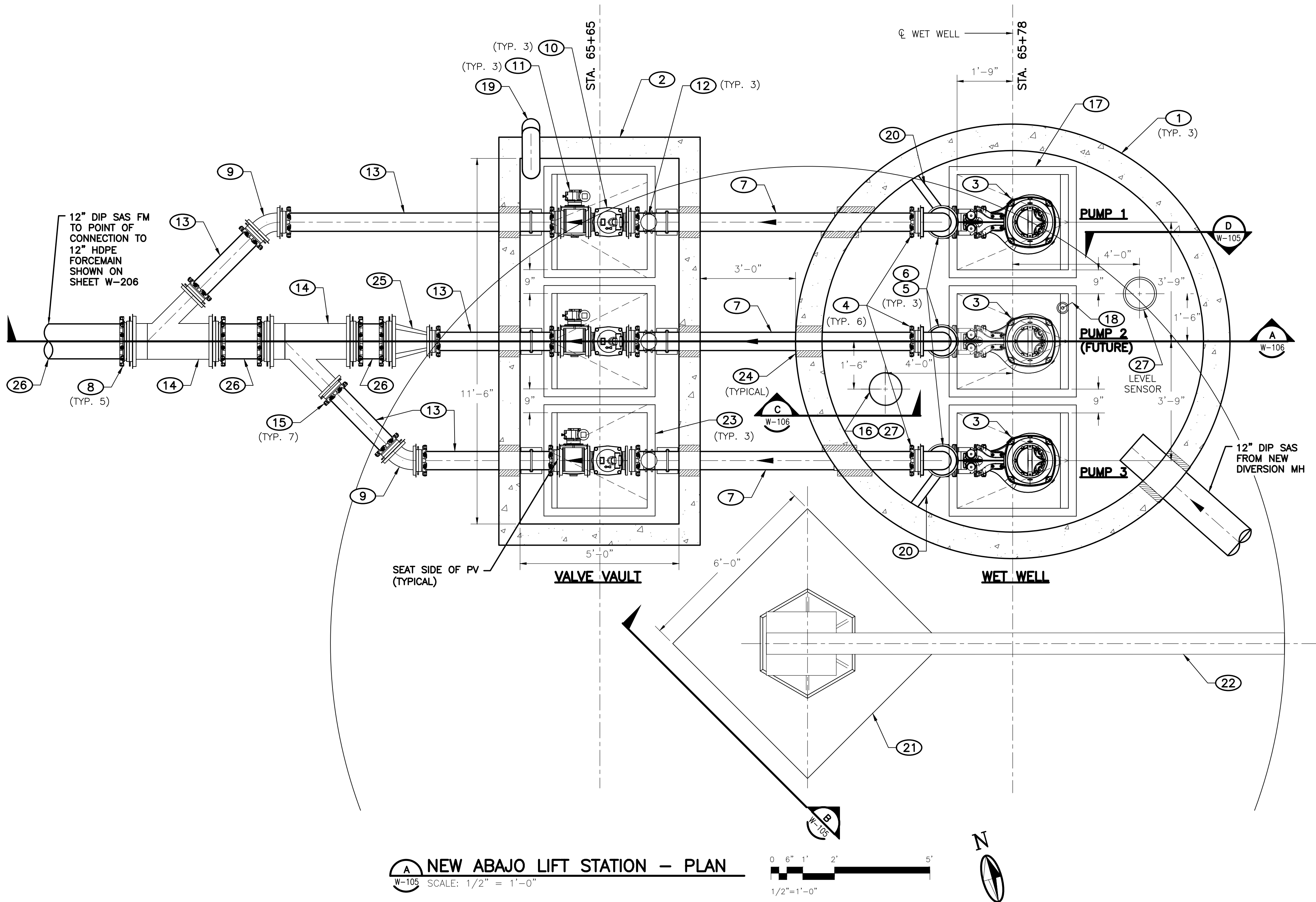
SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

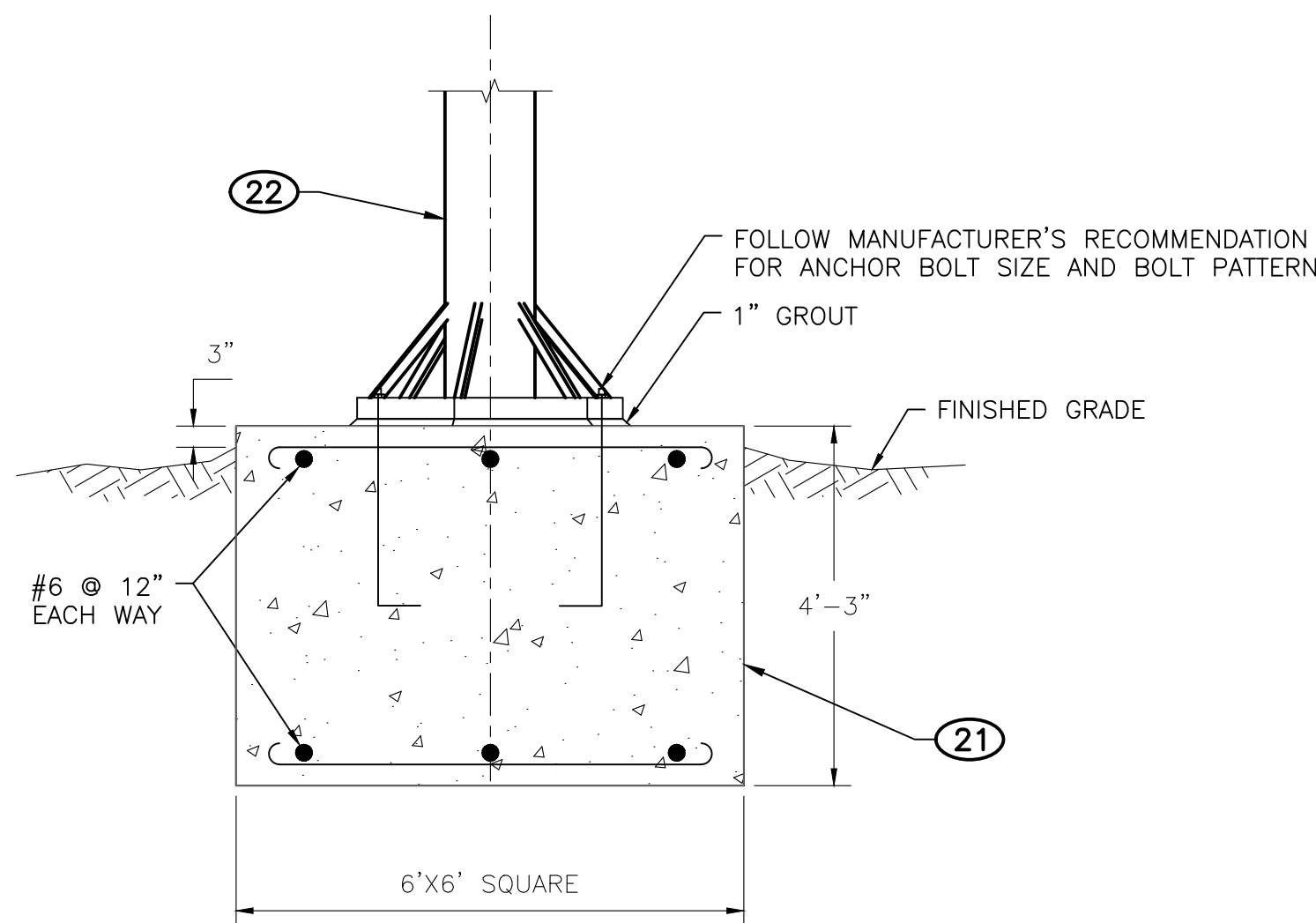
EXISTING LIFT STATION MODIFICATIONS - SECTION

APPROVED BY: REVIEWED BY: S. MORROW
DATE: SEPTEMBER 2025 SHEET: W-104
DRAWN BY:

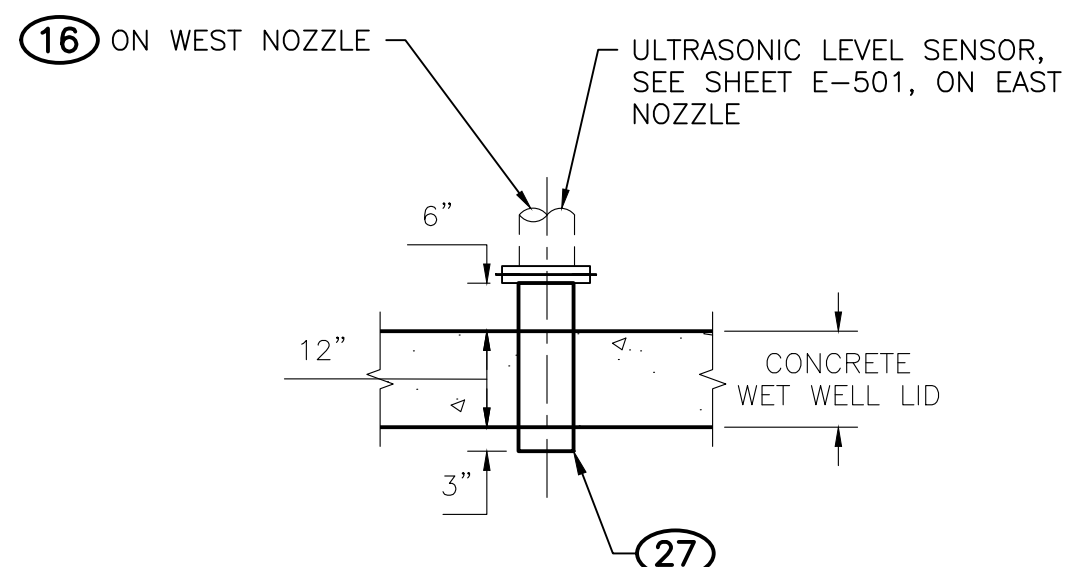




A NEW ABAJO LIFT STATION – PLAN
W-105 SCALE: 1/2" = 1'-0"



B SECTION
W-105 SCALE: 1/2" = 1'-0"



D 6" FLANGED NOZZLE SECTION
W-105 SCALE: 1/2" = 1'-0"

GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL PUMP AND HARDWARE DIMENSIONS AND PLACEMENT OF HARDWARE WITH PUMP MANUFACTURER.
2. REFER TO SECTION 09 97 01 – INDUSTRIAL COATINGS FOR PIPE, VALVE, FITTINGS, AND CONCRETE CORROSION PROTECTION REQUIREMENTS.
3. RESTRAIN ALL BURIED MJ JOINTS.
4. SEE SHEET W-106 FOR SECTION OF NEW ABAJO LIFT STATION.
5. SEE SHEET E-501 FOR ELECTRICAL DETAILS.

KEYED NOTES

- 1 12'-0" ID PRECAST CONCRETE WET WELL AND BASE w/ CONCRETE LID & FABRICATED METAL ACCESS COVER SYSTEM. SEE SECTION 33 05 63 AND SHEET S-101 FOR DETAILS.
- 2 5'x10' ID PRECAST CONCRETE VALVE VAULT w/ PRECAST CONCRETE LID & FABRICATED METAL ACCESS COVER SYSTEM. SEE SECTION 33 05 61.01 FOR DETAILS.
- 3 SUBMERSIBLE WASTEWATER PUMP, REFER TO SPECIFICATIONS SECTION 43 25 13 – SUBMERSIBLE SEWAGE PUMPS FOR REQUIREMENTS WITH DISCHARGE ELBOW, SS GUIDE BARS AND GRIP EYE PUMP LIFTING ASSEMBLY. INSTALL TWO PUMPS INITIALLY. CENTER PUMP IS FUTURE.
- 4 6" MEGA-FLANGE® FLANGED JOINT RESTRAINT (TYPICAL).
- 5 6" FL-PE DIP RISER x 20'-0"± LONG.
- 6 6" FL DIP 90° BEND.
- 7 6" PE DIP SPOOL x 9'-0"± LONG.
- 8 12" MEGA-LUG® MJ JOINT RESTRAINT (TYPICAL) – ALL BURIED FITTINGS.
- 9 6" MJ 45° BEND.
- 10 6" FL BALL CHECK VALVE. SEE SECTION 40 27 02.12 – BALL CHECK VALVES FOR DETAILS.
- 11 6" FL PLUG VALVE w/ WORMGEAR ACTUATOR & 2" AWWA OPERATING NUT. INSTALL VALVE WITH SHAFT HORIZONTAL AND POSITION ACTUATOR WITH PLUG IN TOP OF PIPE WHEN VALVE IS OPEN. SEE SECTION 40 27 02.01 – PLUG VALVES FOR DETAILS.
- 12 PRESSURE GAUGE ASSEMBLY (0-60 PSIG), DIAL FACING UP. SEE DETAIL SHEET W-503.
- 13 6" PE DIP SPOOL.
- 14 12" X 6" MJ WYE.
- 15 6" MEGA-LUG® MJ JOINT RESTRAINT (TYPICAL) – ALL BURIED FITTINGS.
- 16 ODOR CONTROL FILTER, ENGINEERED PUMP SYSTEMS, LTD., SEE DETAIL SHEET W-106.
- 17 WET WELL HINGED ACCESS HATCH, 3 REQUIRED, EACH WITH CLEAR OPENING, 42" X 36", SINGLE LEAF, ANGLE FRAME AND SAFETY GRATE, SEE SPECIFICATION 43 25 13.
- 18 LEVEL SWITCH FLOATS ATTACHED TO 7'LX3"X3.5" C TYPE MEMBER BRACKET. SEE SHEET W02-301 FOR SETTLING HEIGHTS. SEE SECTION 43 25 13 FOR DETAILS.
- 19 6" GOOSENECK VENT WITH INSECT SCREEN.
- 20 BRACKET TYPE B, TYP. 3, SEE DETAIL SHEET W-503.
- 21 JIB CRANE FOUNDATION, 6'x6'x4'-3" CONCRETE FOOTING WITH #6 REBAR TOP AND BOTTOM 12" ON CENTER EACH WAY. SEE SECTION B, THIS SHEET.
- 22 ONE TON FREE-STANDING MOTORIZED JIB CRANE WITH 15' SPAN. SEE SECTION B THIS SHEET AND SPECIFICATION 41 22 00..
- 23 VALVE VAULT HINGED ACCESS HATCH, 3 REQUIRED, EACH WITH CLEAR OPENING 36" X 36", ONE-LEAF, ANGLE FRAME AND SAFETY GRATE, SEE SPECIFICATION 43 25 13.
- 24 CORE DRILL HOLE IN MANHOLE WALL FOR PIPES, SEAL AROUND PIPE WITH MECHANICAL SEALS.
- 25 12" X 6" MJ REDUCER.
- 26 12" PE DIP SPOOL.
- 27 EMBEDDED FLANGED NOZZLE, 6" SCH. 40 TYPE 304 STAINLESS STEEL, FLxPE, SEE DETAIL THIS SHEET

MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE
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OF AN UNDISPUTED REQUEST FOR PAYMENT

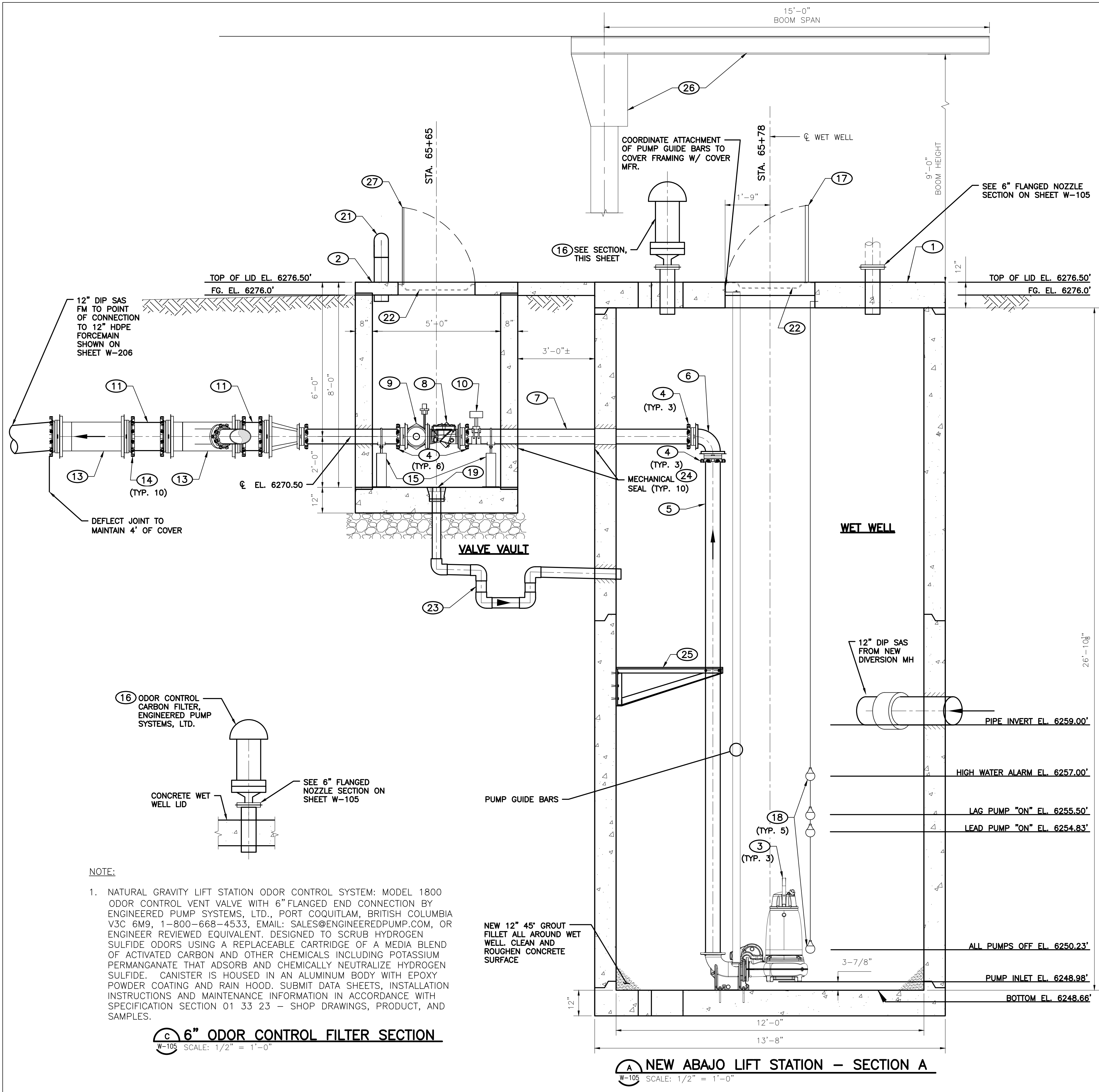
Kenneth R. Miller
KENNETH R. MILLER
12548
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
9-18-2025

REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

NEW ABAJO LIFT STATION PLAN
APPROVED BY: REVIEWED BY: S. MORROW
DATE: AUGUST 2025 SHEET: W-105
DRAWN BY: JIG



NOTE:

1. NATURAL GRAVITY LIFT STATION ODOR CONTROL SYSTEM: MODEL 1800 ODOR CONTROL VENT VALVE WITH 6" FLANGED END CONNECTION BY ENGINEERED PUMP SYSTEMS, LTD., PORT COQUITLAM, BRITISH COLUMBIA V3C 6M9, 1-800-668-4533, EMAIL: SALES@ENGINEEREDPUMP.COM, OR ENGINEER REVIEWED EQUIVALENT. DESIGNED TO SCRUB HYDROGEN SULFIDE ODORS USING A REPLACEABLE CARTRIDGE OF A MEDIA BLEND OF ACTIVATED CARBON AND OTHER CHEMICALS INCLUDING POTASSIUM PERMANGANATE THAT ADSORB AND CHEMICALLY NEUTRALIZE HYDROGEN SULFIDE. CANISTER IS HOUSED IN AN ALUMINUM BODY WITH EPOXY POWDER COATING AND RAIN HOOD. SUBMIT DATA SHEETS, INSTALLATION INSTRUCTIONS AND MAINTENANCE INFORMATION IN ACCORDANCE WITH SPECIFICATION SECTION 01 33 23 - SHOP DRAWINGS, PRODUCT, AND SAMPLES.

6" ODOR CONTROL FILTER SECTION
W-105 SCALE: 1/2" = 1'-0"

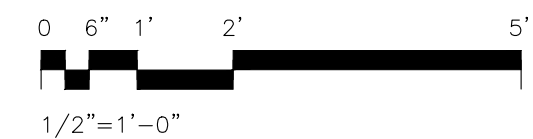
NEW ABAJO LIFT STATION - SECTION A
W-105 SCALE: 1/2" = 1'-0"

GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL PUMP AND HARDWARE DIMENSIONS AND PLACEMENT OF HARDWARE WITH PUMP MANUFACTURER.
2. REFER TO SECTION 09 97 01 - INDUSTRIAL COATINGS FOR PIPE, VALVE, FITTINGS, AND CONCRETE CORROSION PROTECTION REQUIREMENTS.
3. SEE SHEET W-105 FOR PLAN OF NEW ABAJO LIFT STATION.
4. SEE SHEET E-501 FOR ELECTRICAL DETAILS.

KEYED NOTES

- 1 12'-0" ID PRECAST CONCRETE WET WELL AND BASE w/ CONCRETE LID & FABRICATED METAL ACCESS COVER SYSTEM. SEE SECTION 33 05 63 AND SHEET S-XXX FOR DETAILS.
- 2 5'x10' ID PRECAST CONCRETE VALVE VAULT w/ PRECAST CONCRETE LID & FABRICATED METAL ACCESS COVER SYSTEM. SEE SECTION 33 05 61.01 FOR DETAILS.
- 3 SUBMERSIBLE WASTEWATER PUMP REFER TO SPECIFICATIONS SECTION 43 25 13 - SUBMERSIBLE SEWAGE PUMPS FOR REQUIREMENTS WITH DISCHARGE ELBOW, SS GUIDE BARS AND GRIP EYE PUMP LIFTING ASSEMBLY. INSTALL TWO PUMPS INITIALLY. CENTER PUMP IS FUTURE.
- 4 6" MEGA-FLANGE® FLANGED JOINT RESTRAINT (TYPICAL).
- 5 6" FL-PE DIP RISER x 20'-2"± LONG.
- 6 6" FL DIP 90° BEND.
- 7 6" PE DIP SPOOL x 9'-11"± LONG.
- 8 6" FL BALL CHECK VALVE. SEE SECTION 40 27 02.12 - BALL CHECK VALVES FOR DETAILS.
- 9 6" FL PLUG VALVE w/ WORMGEAR ACTUATOR & 2" AWWA OPERATING NUT. SEE SECTION 40 27 02.01 - PLUG VALVES FOR DETAILS.
- 10 PRESSURE GAUGE ASSEMBLY (0-60 PSIG), DIAL FACING UP. SEE DETAIL SHEET W-503.
- 11 6" PE DIP SPOOL.
- 12 NOT USED.
- 13 12" X 6" MJ WYE.
- 14 6" MEGA-LUG® MJ JOINT RESTRAINT (TYPICAL) - ALL BURIED FITTINGS.
- 15 ADJUSTABLE PIPE SUPPORT. SEE DETAIL SHEET W-503.
- 16 ODOR CONTROL FILTER, ENGINEERED PUMP SYSTEMS, LTD. SEE DETAIL THIS SHEET.
- 17 WET WELL HINGED ACCESS HATCH, 3 REQUIRED, EACH WITH CLEAR OPENING, 42" X 36", SINGLE LEAF, ANGLE FRAME AND SAFETY GRATE, SEE SPECIFICATION 43 25 13.
- 18 LEVEL FLOAT SWITCHES, SEE SHEET E-501.
- 19 4" PVC FLOOR DRAIN WITH THREADED GRATE INSERT.
- 20 NOT USED.
- 21 6" GOOSENECK VENT WITH INSECT SCREEN.
- 22 SAFETY GRATE.
- 23 4" SCH. 80 PVC HUB & SPIGOT DRAIN W/ GRATED FLOOR DRAIN @ 2.0% SLOPE TO WET WELL.
- 24 CORE DRILL HOLE IN MH WALL FOR PIPES, SEAL AROUND PIPE WITH MECHANICAL SEALS.
- 25 BRACKET TYPE B, TYP. OF 3, SEE DETAIL SHEET W-503.
- 26 ONE TON FREE-STANDING MOTORIZED JIB CRANE WITH 15' SPAN. SEE SPECIFICATION 41 22 00.
- 27 VALVE VAULT HINGED ACCESS HATCH 3 REQUIRED, CLEAR OPENING 36" X 36", ONE-LEAF, ANGLE FRAME AND SAFETY GRATE.



MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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



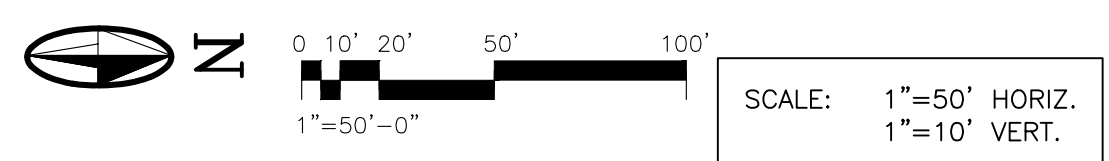
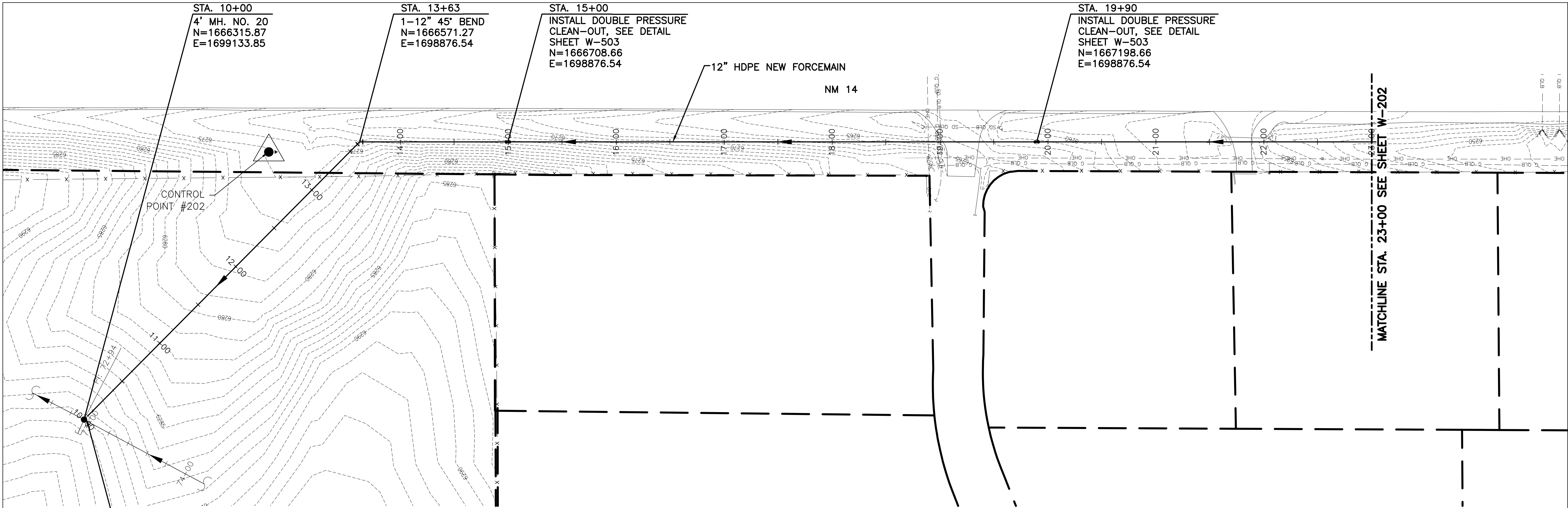
REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

NEW ABAJO LIFT STATION SECTION

APPROVED BY: REVIEWED BY: S. MORROW
DATE: SEPTEMBER 2025 SHEET:
DRAWN BY: JIG W-106



MOLZENCORBIN

2701 Miles Road SE
Abuquerque, New Me ico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION:
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GENERAL NOTES
1. TRENCH BEDDING AND BACKFILL: REFER TO SECTION 31 23 33 – TRENCHING AND BACKFILLING FOR BEDDING AND INITIAL BACKFILL REQUIREMENTS BASED ON BURY DEPTH. SEE DETAIL SHEET W-501.
2. RIGHT-OF-WAY LINES ARE APPROXIMATE.

CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE SHOWN IN APPROXIMATE LOCATION ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

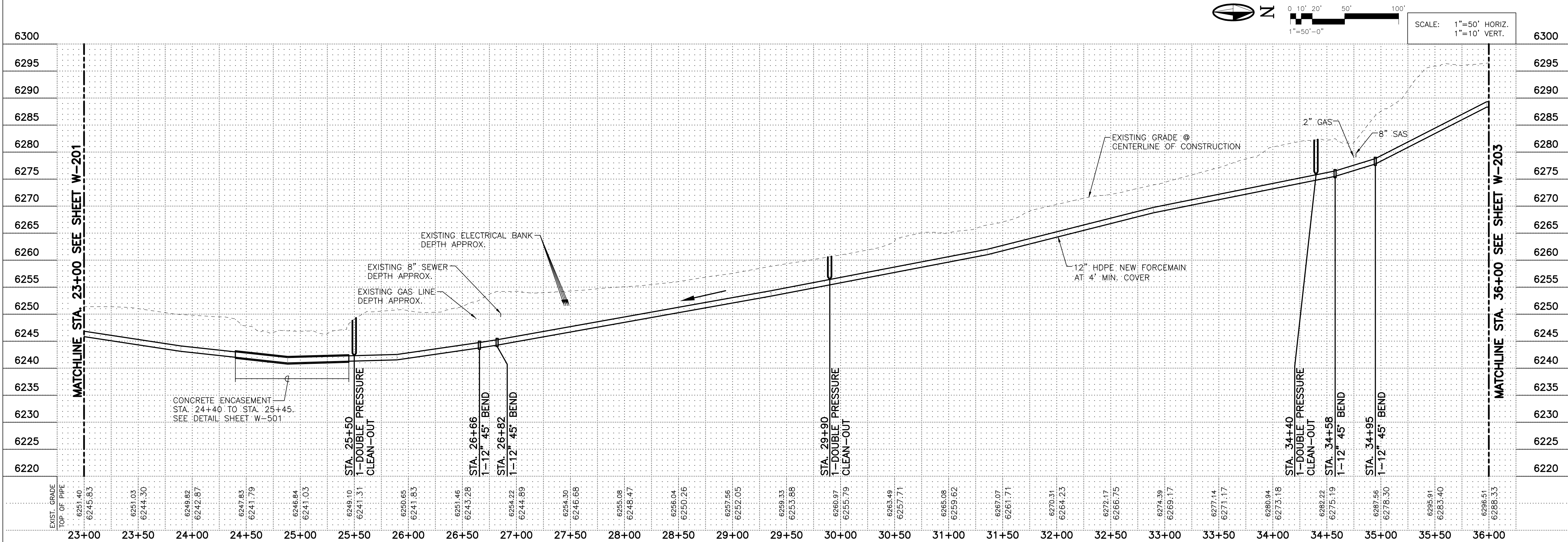
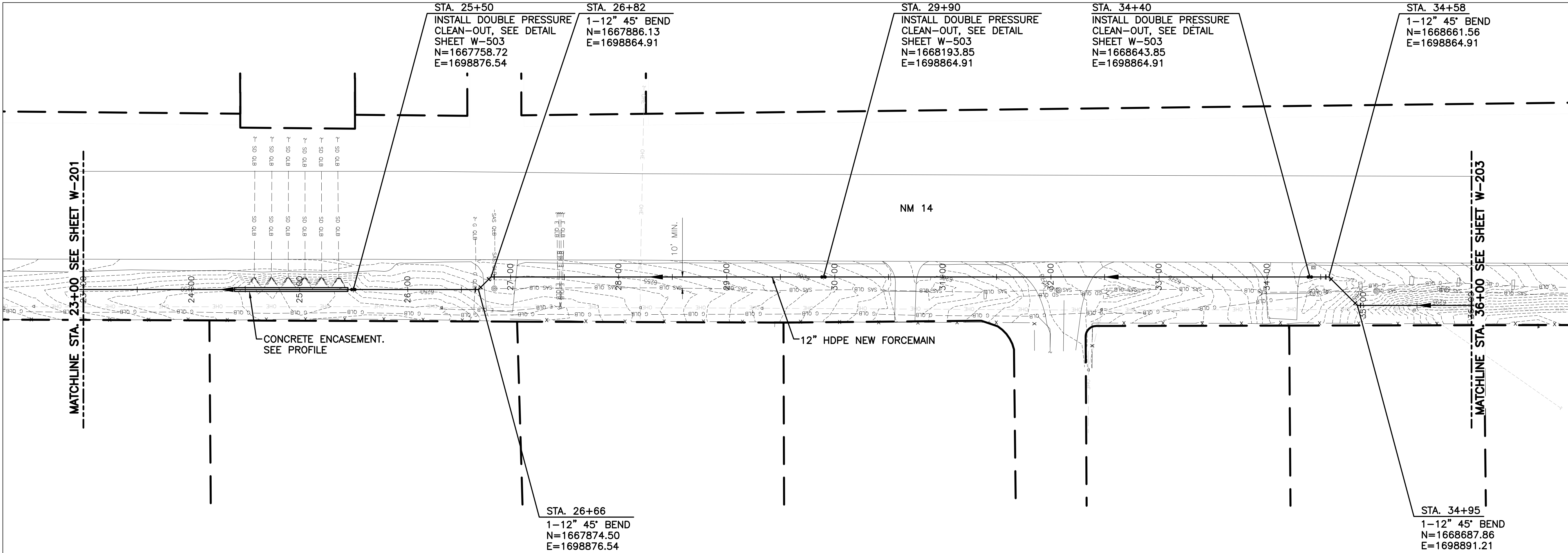
REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

SANITARY SEWER LINE PLAN AND PROFILE
STA. 10+00 TO STA. 23+00

<small>APPROVED BY:</small>	<small>REVIEWED BY: S. MORROW</small>
<small>DATE: SEPTEMBER 2025</small>	<small>SHEET : W-201</small>
<small>DRAWN BY: JIG</small>	



MOLZENCORBIN

2701 Miles Road SE
Abuquerque, New Me ico 87106
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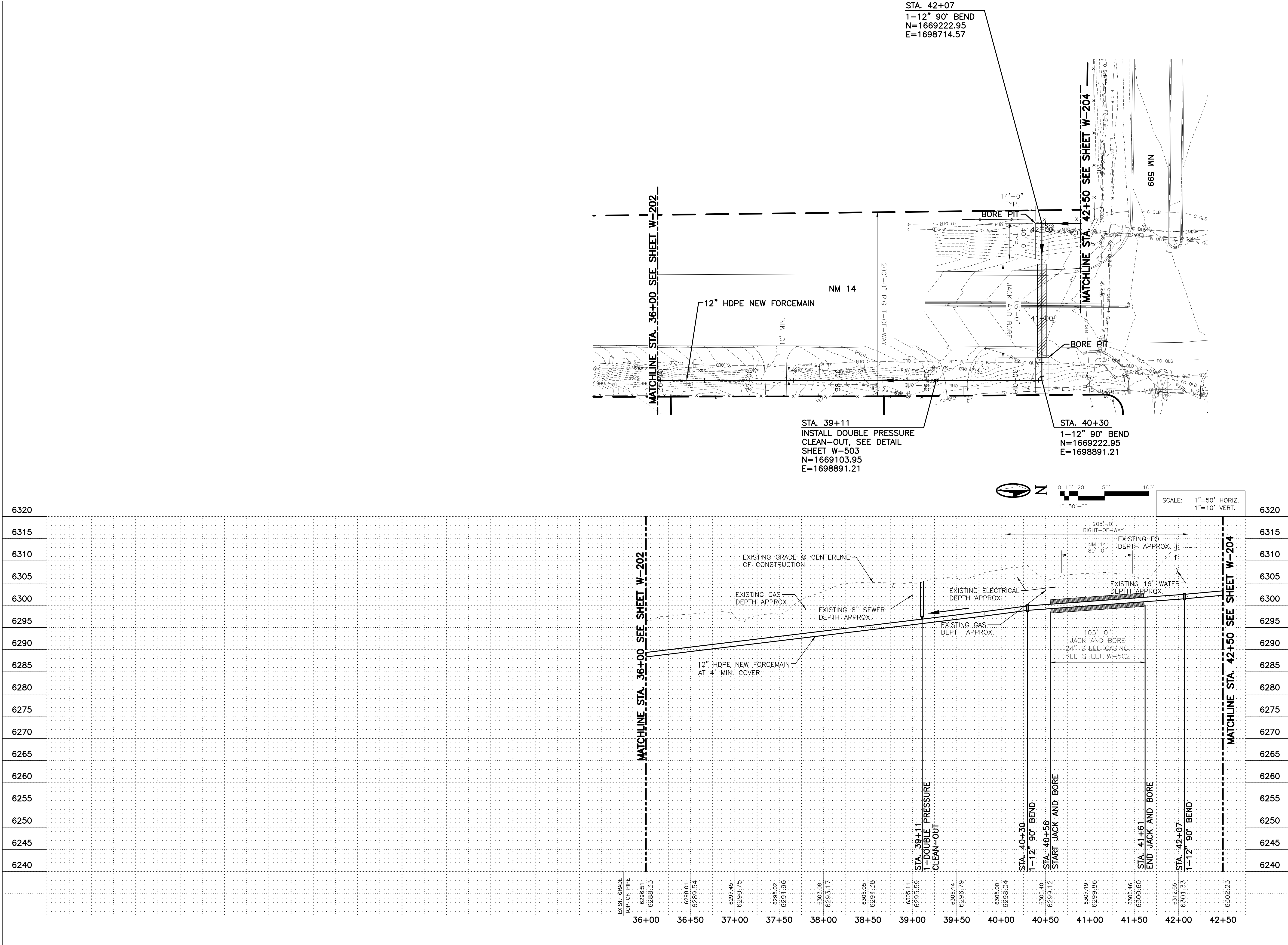
REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

SANITARY SEWER LINE PLAN AND PROFILE
STA. 23+00 TO STA. 36+00

APPROVED BY: REVIEWED BY: S. MORROW
DATE: SEPTEMBER 2025 SHEET :
DRAWN BY: JIG W-202



MOLZENCORBIN

2701 Miles Road SE
Abuquerque, New Me ico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION:
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2. RIGHT-OF-WAY LINES ARE APPROXIMATE.

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REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

SANITARY SEWER LINE PLAN AND PROFILE
STA. 36+00 TO STA. 42+50

APPROVED BY:
DATE: SEPTEMBER 2025
DRAWN BY: JIG

REVIEWED BY: S. MORROW
SHEET :
W-203

MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION:
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GENERAL NOTES

- TRENCH BEDDING AND BACKFILL: REFER TO SECTION 31.23.33 - TRENCHING AND BACKFILLING FOR BEDDING AND INITIAL BACKFILL REQUIREMENTS BASED ON BURY DEPTH. SEE DETAIL SHEET W-501.
- RIGHT-OF-WAY LINES ARE APPROXIMATE.

CAUTION:
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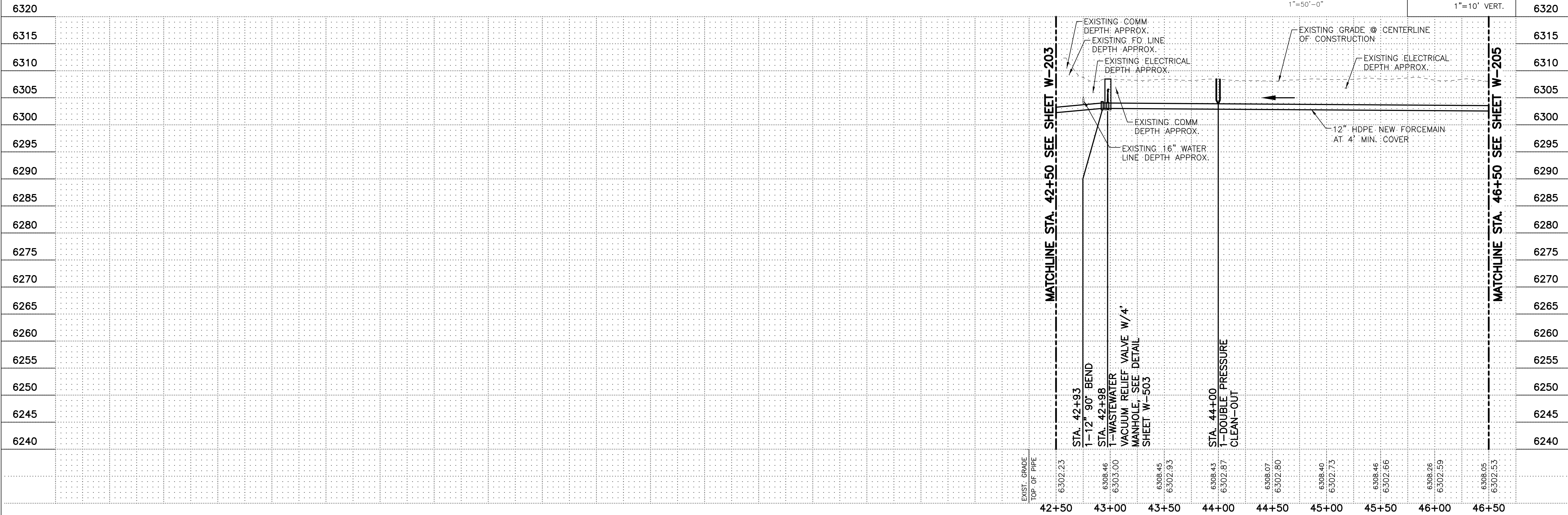
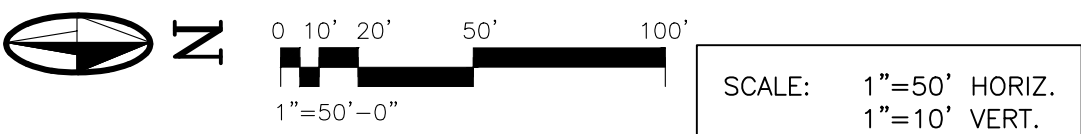
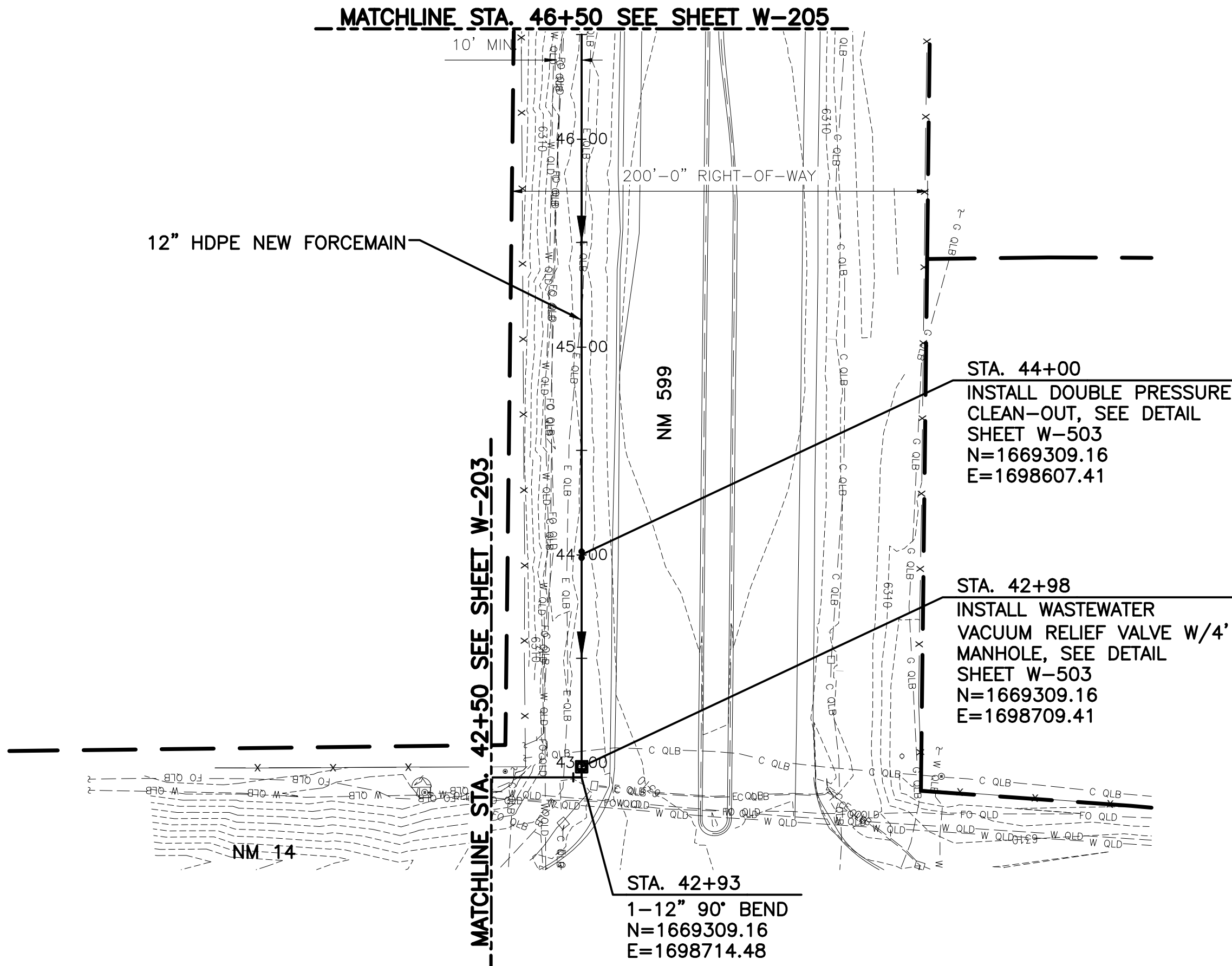
REVISION		
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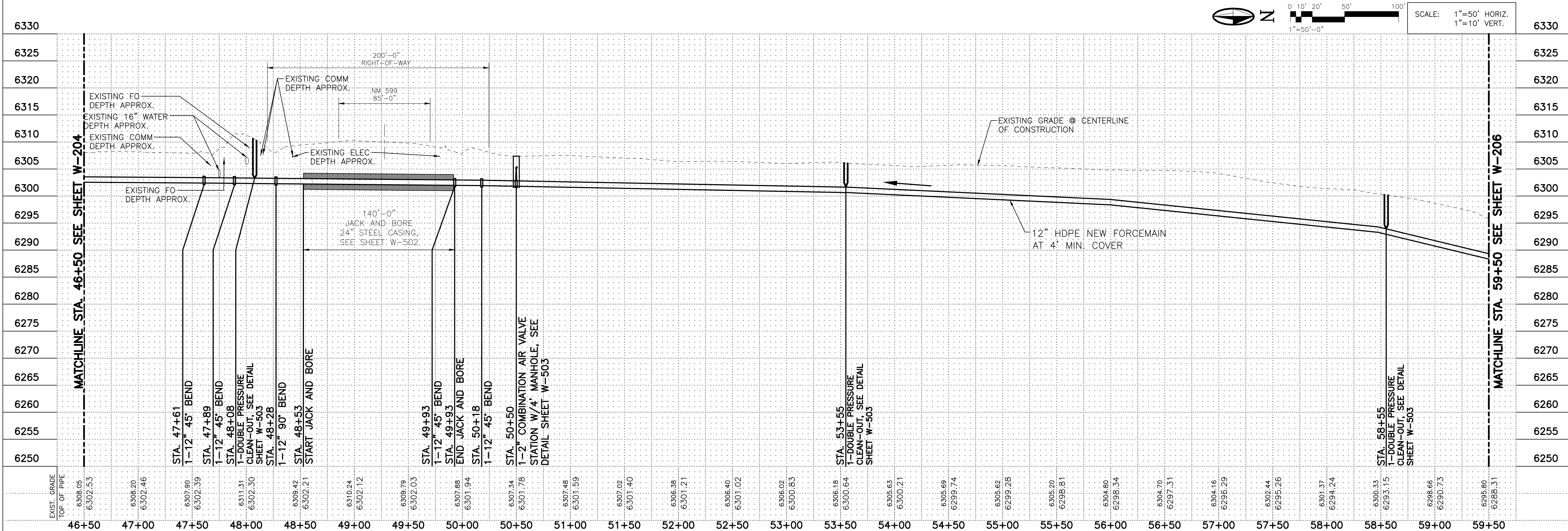
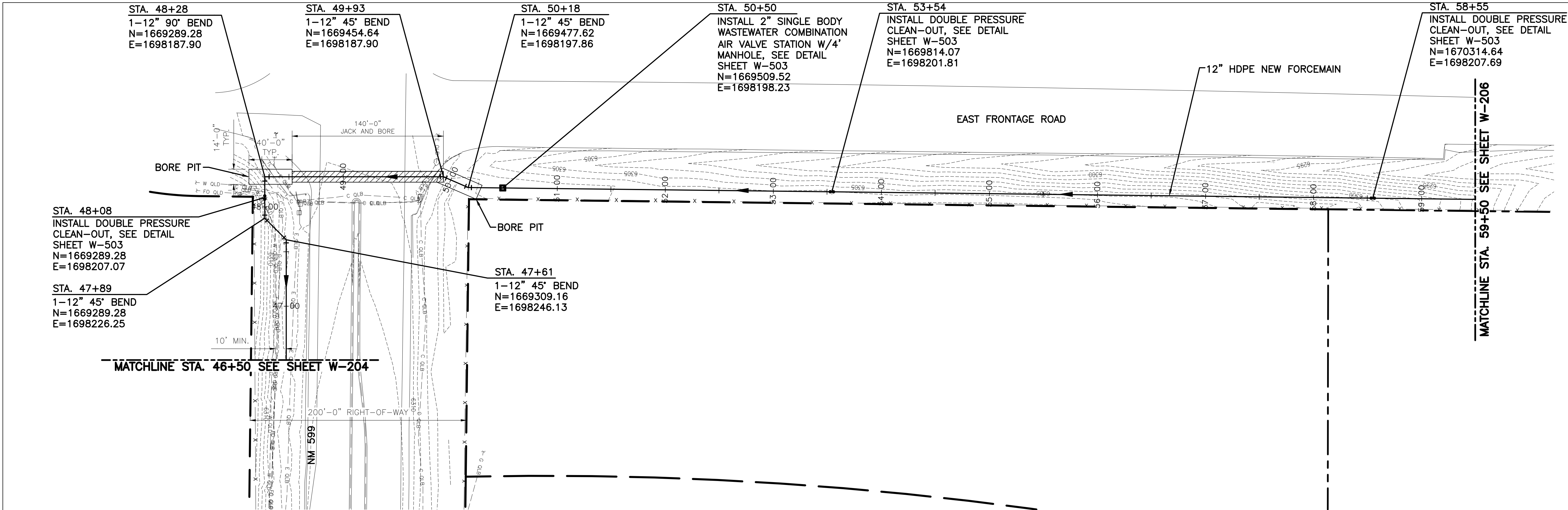
SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

SANITARY SEWER LINE PLAN AND PROFILE
STA. 42+50 TO STA. 46+50

APPROVED BY: REVIEWED BY: S. MORROW
DATE: SEPTEMBER 2025 SHEET :
DRAWN BY: JIG W-204





MOLZENCORBIN

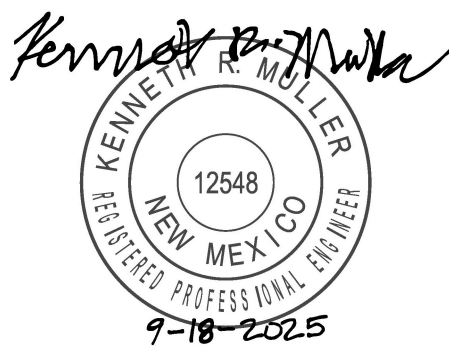
2701 Miles Road SE
Abuquerque, New Me ico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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

- TRENCH BEDDING AND BACKFILL: REFER TO SECTION 31 23 33 - TRENCHING AND BACKFILLING FOR BEDDING AND INITIAL BACKFILL REQUIREMENTS BASED ON BURY DEPTH. SEE DETAIL SHEET W-501.
- RIGHT-OF-WAY LINES ARE APPROXIMATE.

CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE SHOWN IN APPROXIMATE LOCATION ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.



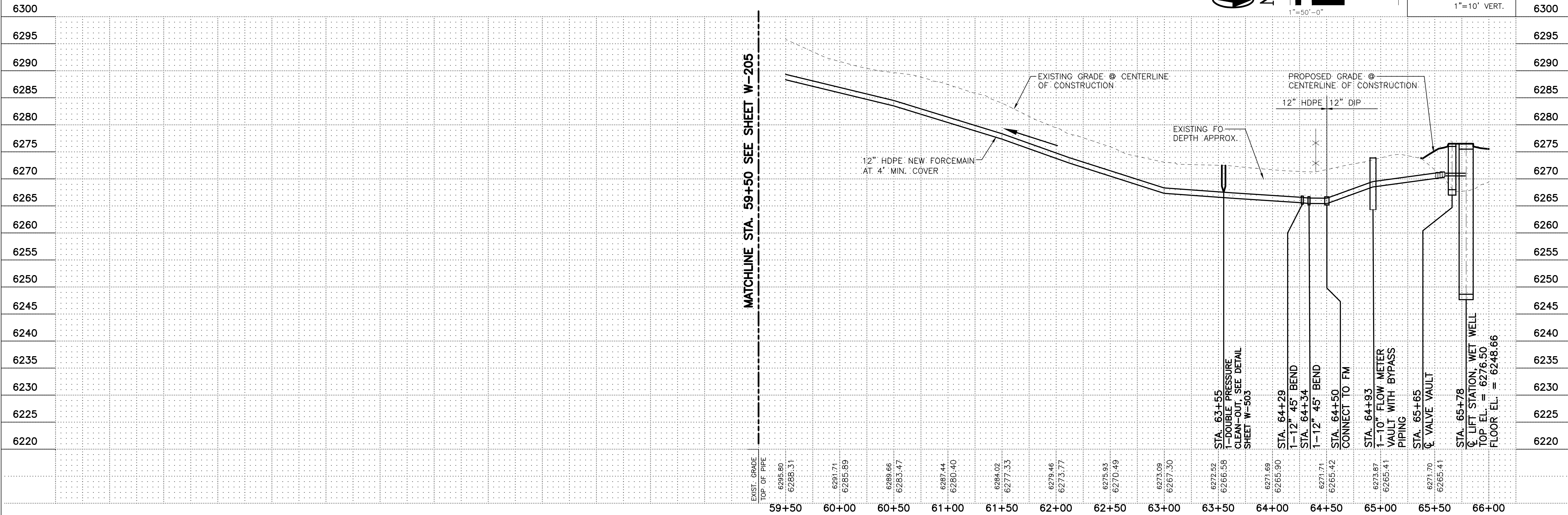
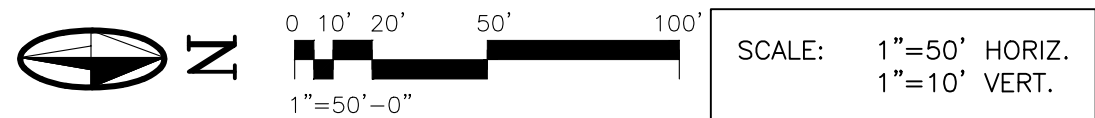
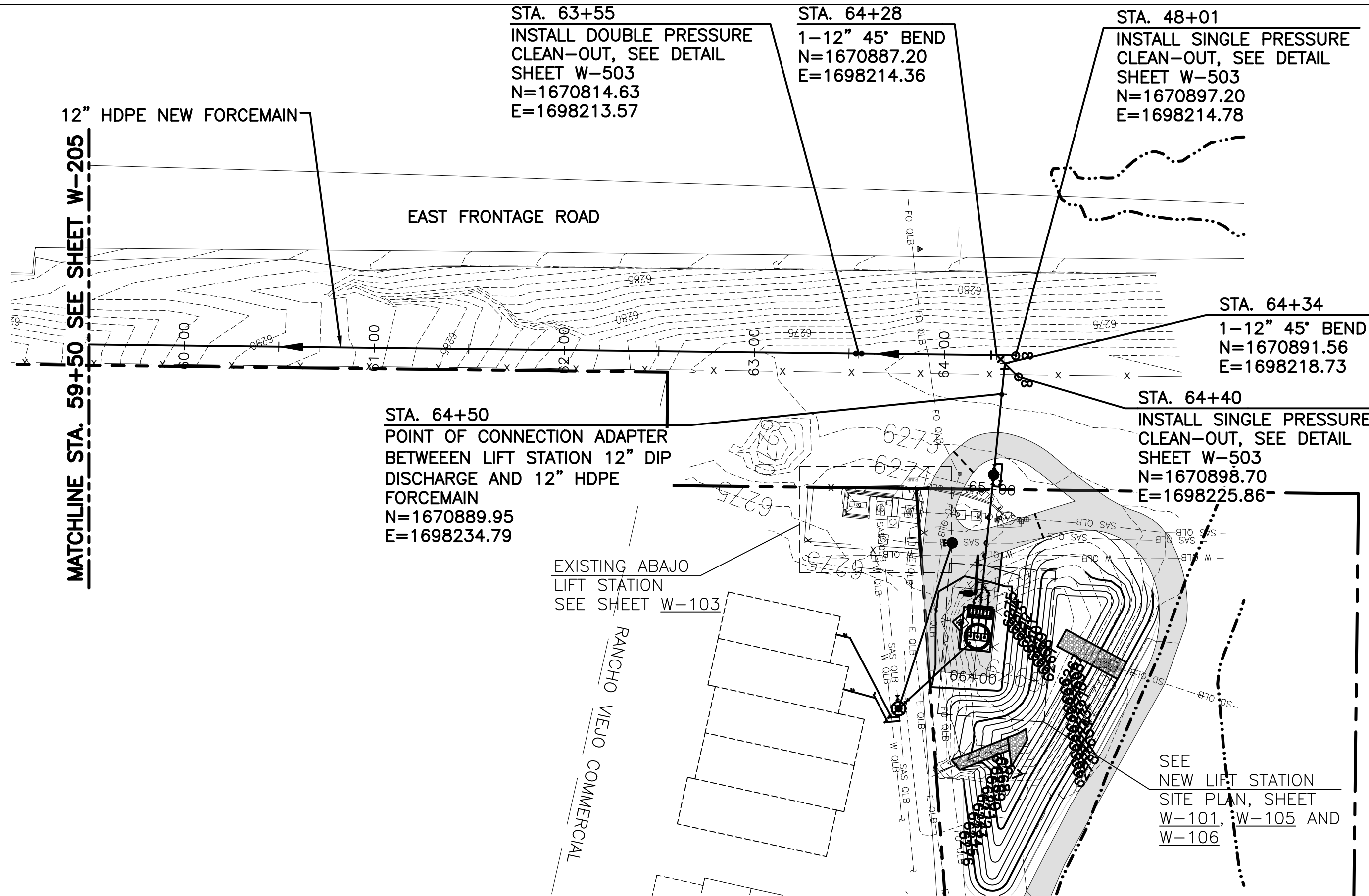
REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

SANITARY SEWER LINE PLAN AND PROFILE
STA. 46+50 TO STA. 59+50

APPROVED BY: REVIEWED BY: S. MORROW
DATE: SEPTEMBER 2025 SHEET :
DRAWN BY: JIG W-205



MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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. TRENCH BEDDING AND BACKFILL: REFER TO SECTION 31 23 33 - TRENCHING AND BACKFILLING FOR BEDDING AND INITIAL BACKFILL REQUIREMENTS BASED ON BURY DEPTH. SEE DETAIL SHEET W-501.
2. RIGHT-OF-WAY LINES ARE APPROXIMATE.

CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE SHOWN IN APPROXIMATE LOCATION ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.



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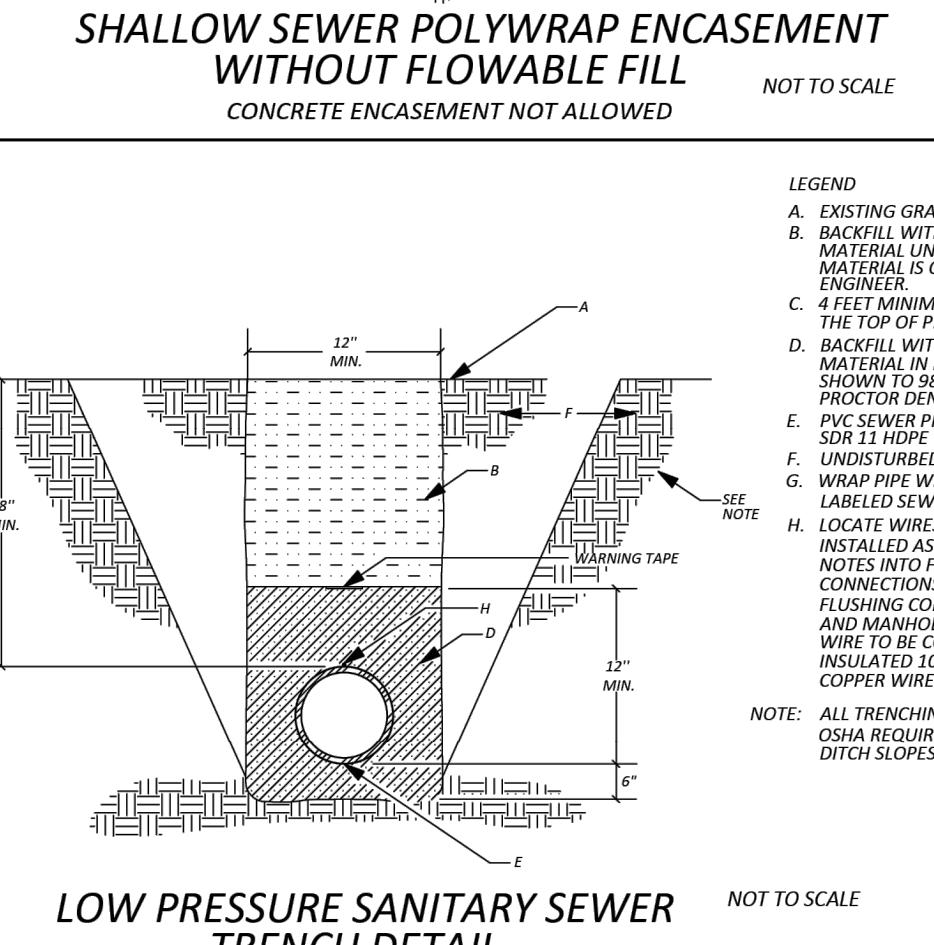
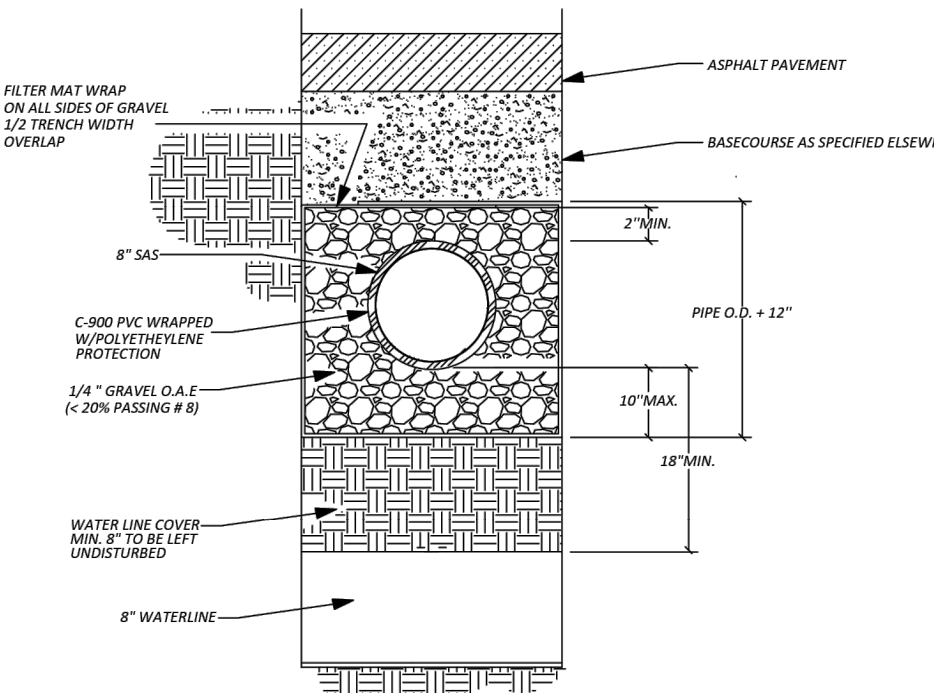
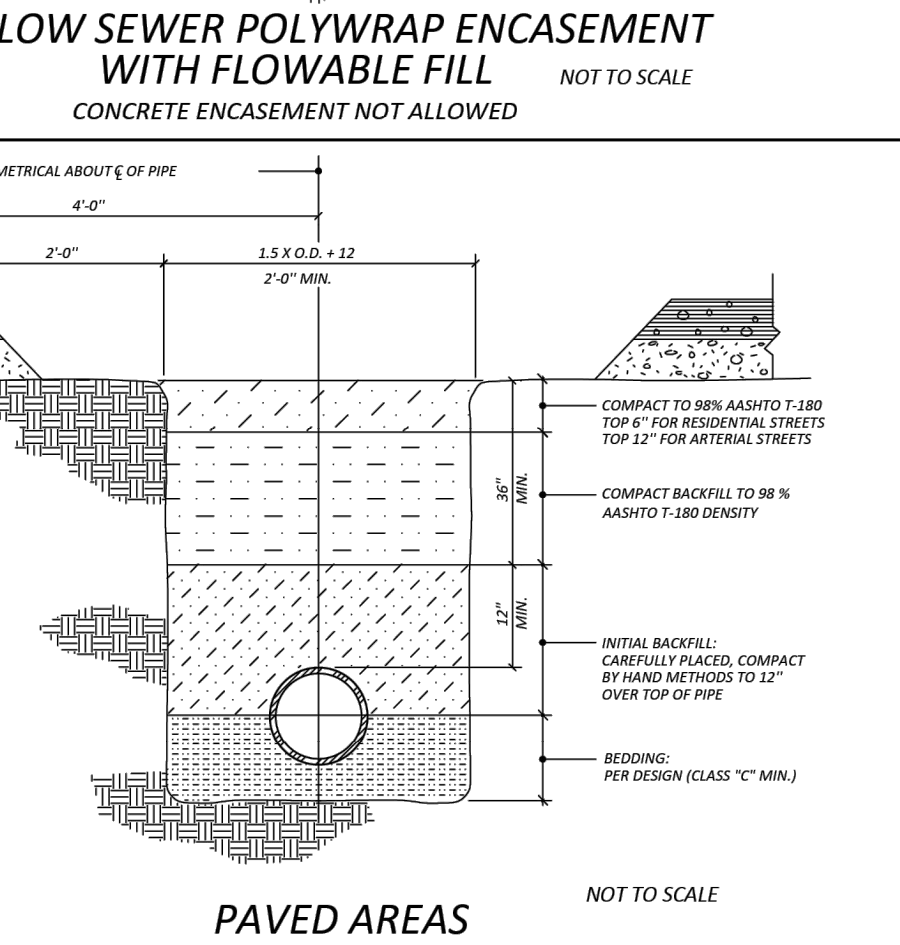
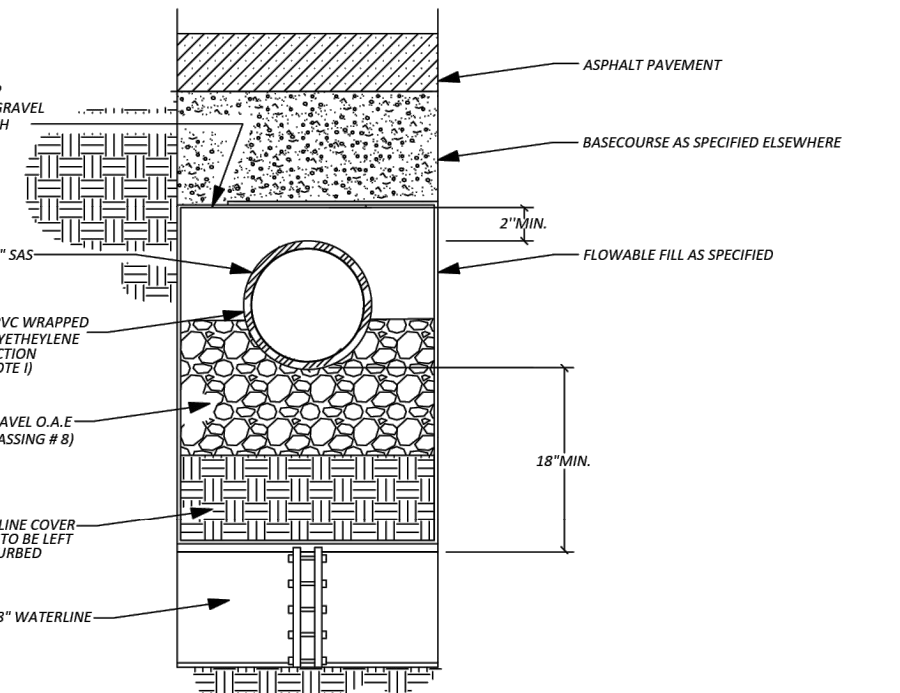
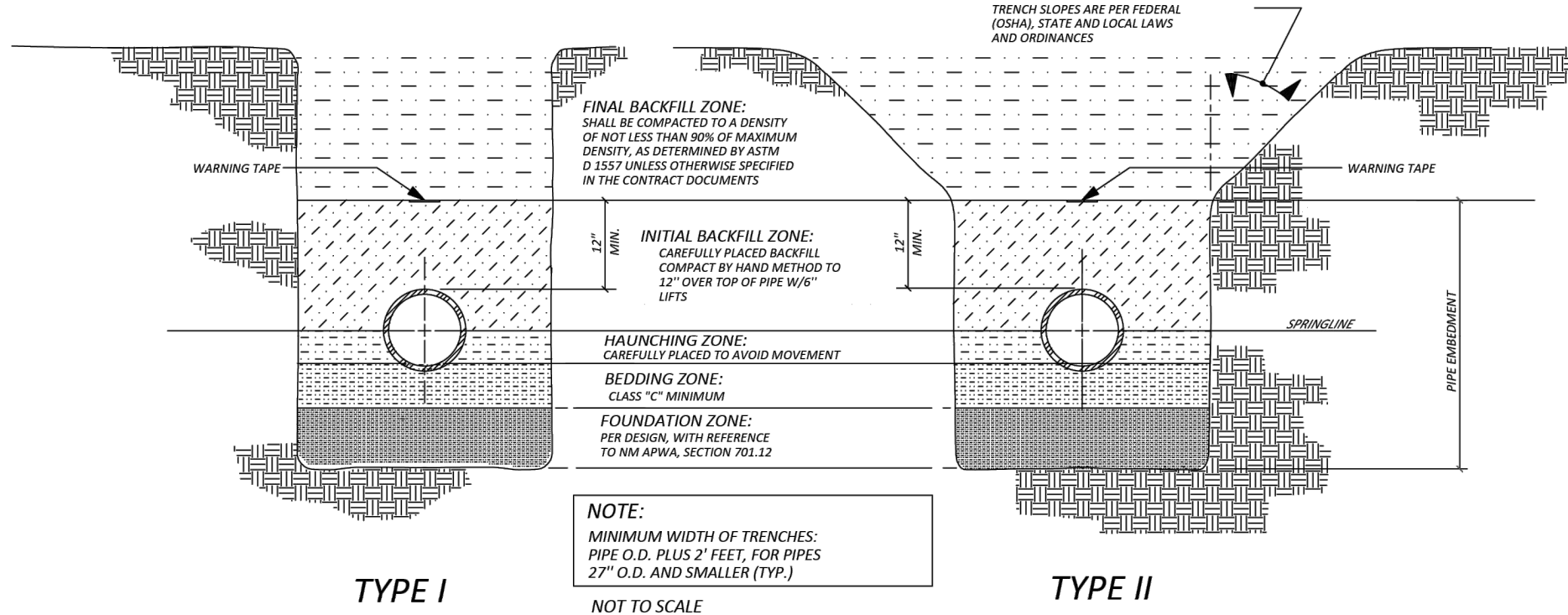
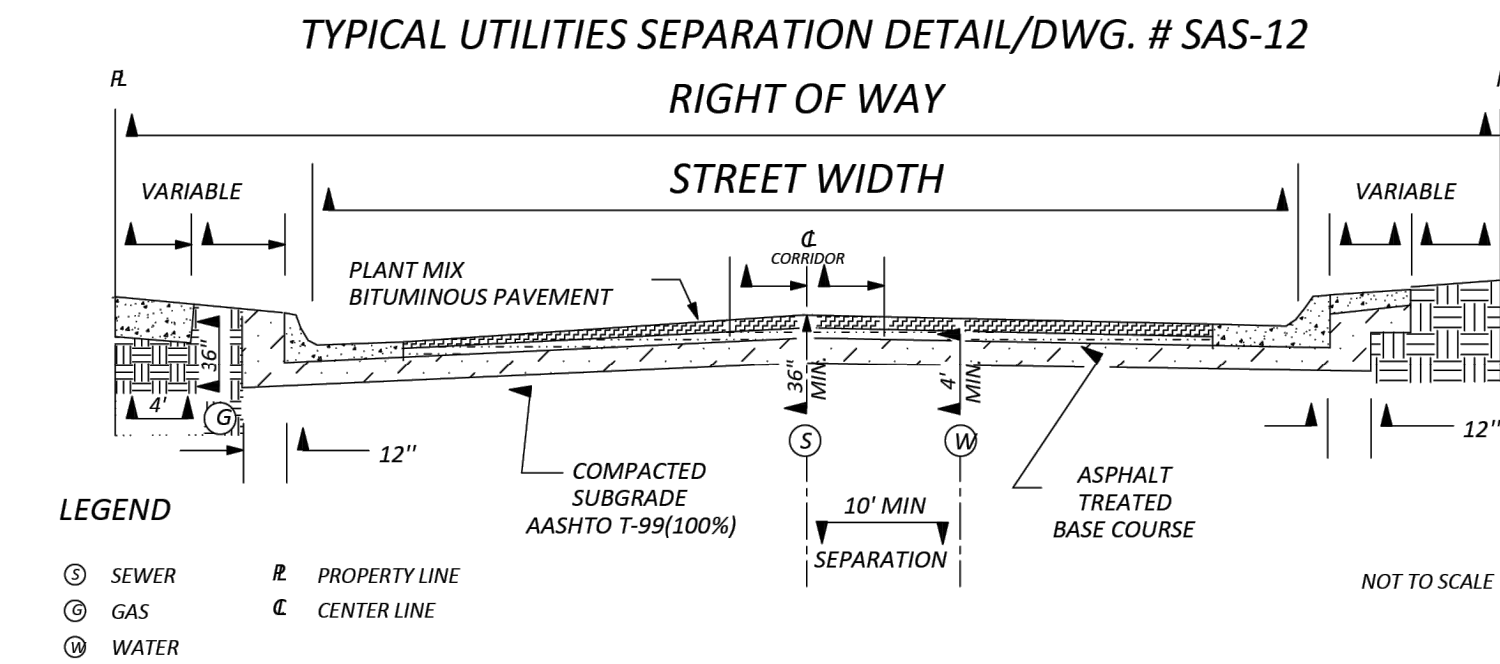
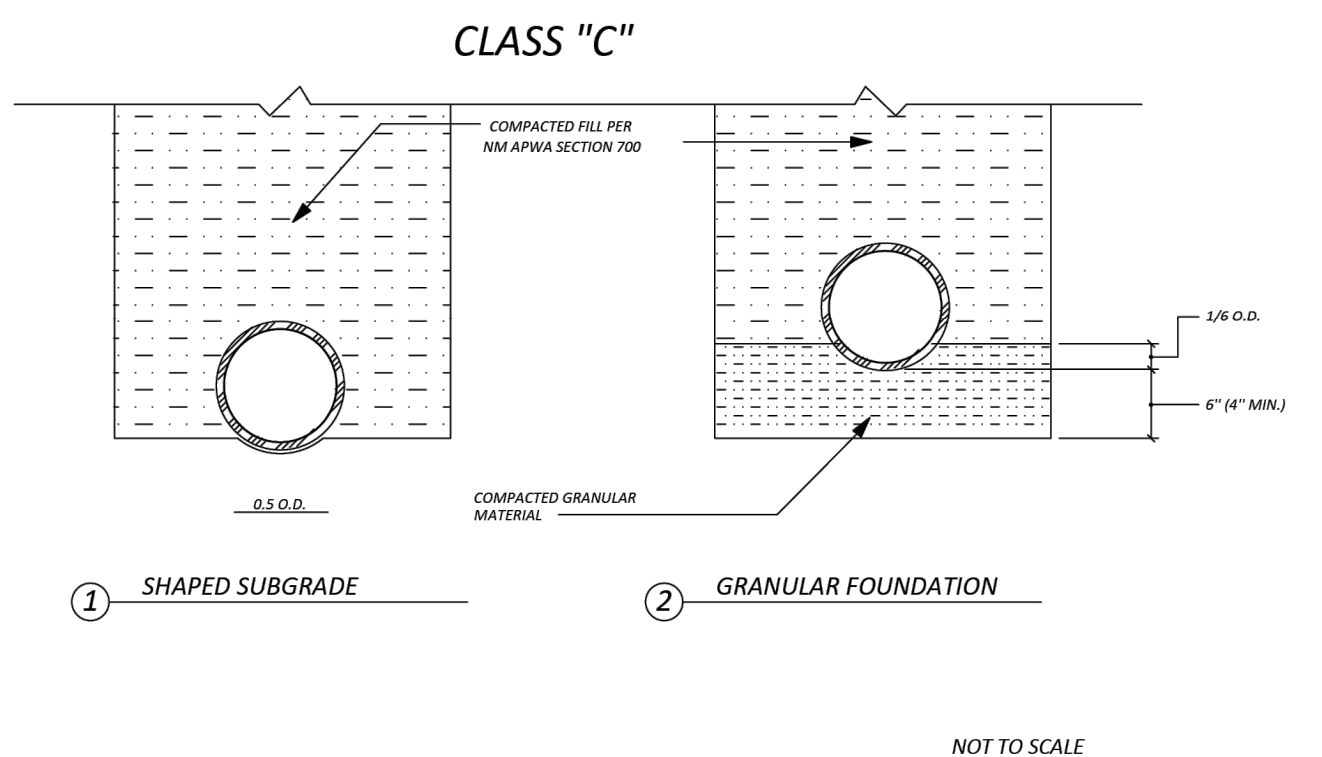
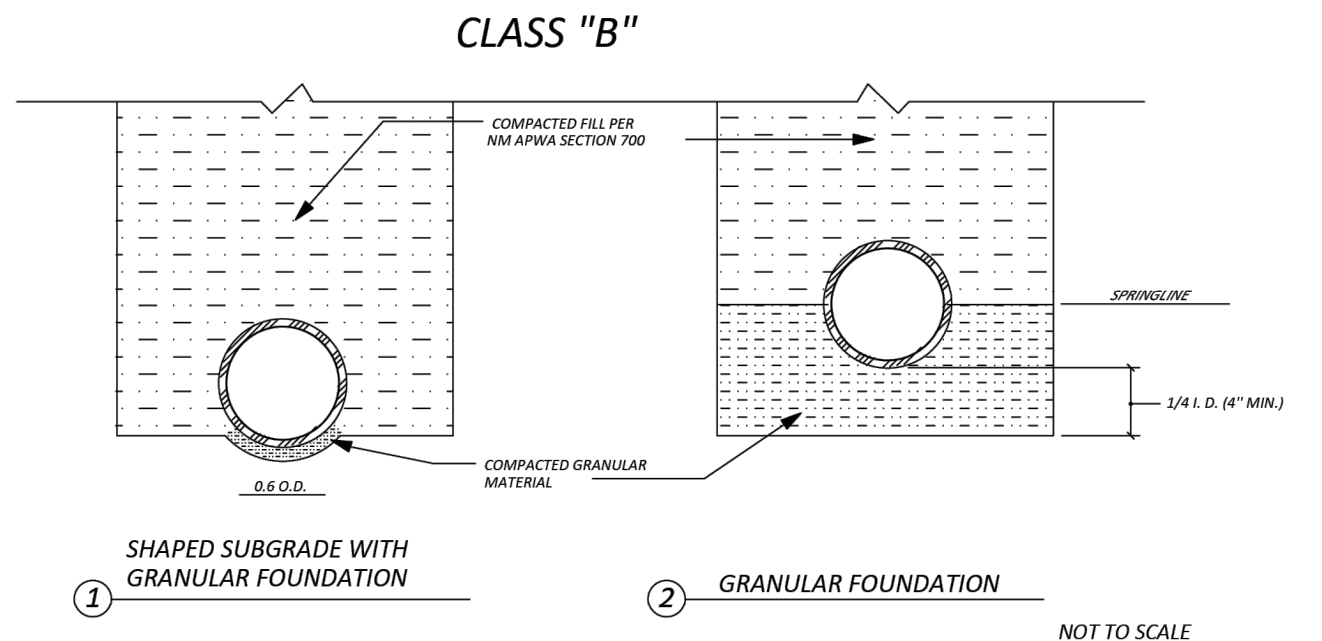
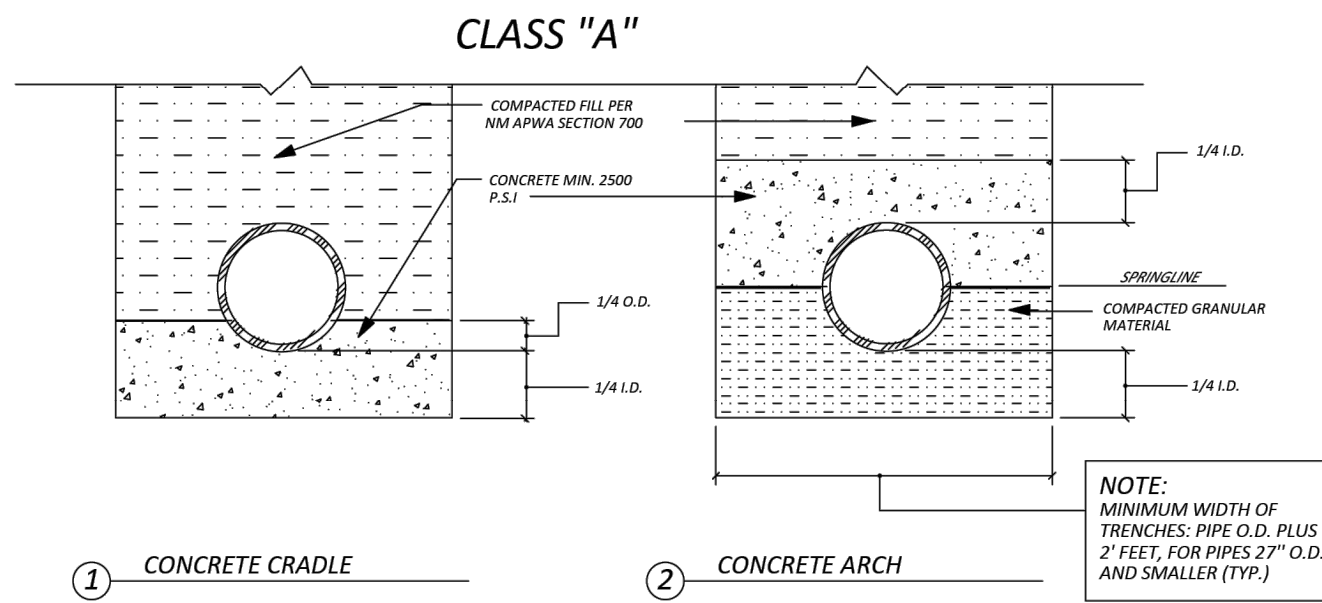
SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

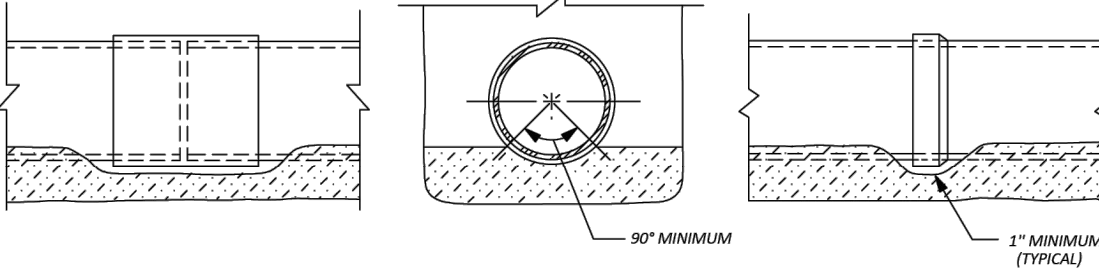
SANITARY SEWER LINE PLAN AND PROFILE
STA. 59+50 TO STA. 65+78

APPROVED BY: S. MORROW
DATE: SEPTEMBER 2025
DRAWN BY: JIG
SHEET: W-206

TRENCH BEDDING AND INSTALLATION DETAILS / DWG. # SAS-11



BELL OR COUPLING INSTALLATION DETAIL / DWG. # SAS-13



CONSTRUCTION REQUIREMENTS

CR-1 MATERIALS AND WORK:
CURRENT NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (referred to as NM APWA) WITH MODIFICATIONS NOTED BY SANTA FE COUNTY UTILITIES.

CR-2 APPROVED PLANS:
USE PLANS BEARING THE OFFICIAL STAMP OF THE DESIGN ENGINEER AND BEARING THE APPROVAL SIGNATURE OF THE COUNTY UTILITIES DIVISION DIRECTOR OR APPROVED REPRESENTATIVE. CONSTRUCTION PLANS WITHOUT APPROVED PLANS WILL BE REJECTED.

CR-2.1:
PRIOR TO FINAL SFCU APPROVAL OF THE CONSTRUCTION PLANS A LETTER WILL BE REQUIRED FROM THE DESIGN ENGINEER INDICATING THAT THEY ARE PROVIDING THE INSPECTION AND RECORD DRAWING SERVICES FOR THE PROJECT.

CR-2.2:
THE CONTRACTOR, THROUGH THE PROJECT ENGINEER SHALL SUBMIT PRELIMINARY AS-BUILTS WITHIN 5-DAYS OF COMPLETION TO SFCU FOR REVIEW AND APPROVAL AND SHALL INCLUDE: AS-BUILT MANHOLE RIM AND INVERT ELEVATIONS, FINAL PIPE SLOPES AND DISTANCES BETWEEN MANHOLES, AND A SUMMARY SHEET SHOWING BEARINGS AND DISTANCES WITH A SURVEY TIE TO THE NEAREST SFC CONTROL MONUMENT. FINAL CERTIFIED AS-BUILTS AND CERTIFICATION OF COMPLIANCE STATEMENT (FCC-1.B), SHALL BE SUBMITTED TO SFCU PRIOR TO FINAL ACCEPTANCE BY SFCU.

CR-3 SEWER HOOK-UP PERMIT:
OBTAIN PERMITS FOR THE PROJECT BEFORE COMMENCING ANY SEWER CONSTRUCTION. CONSTRUCTION PERFORMED WITHOUT OBTAINING PERMITS SHALL BE REJECTED.

A. CONSTRUCTION PLANS SHALL INDICATE THE CLASS OF BEDDING TO BE USED. CHANGE OF BEDDING MAY REQUIRE A CHANGE IN PIPE CLASSIFICATION OR WALL THICKNESS.

CR-4 SUBSTITUTIONS OR CHANGES:
ALL SUBSTITUTIONS OR CHANGES MUST BE APPROVED BY THE COUNTY UTILITIES DIVISION OR COUNTY APPROVED REPRESENTATIVE PRIOR TO CONSTRUCTION. ALL SUBSTITUTIONS OR CHANGES MUST BE SUBMITTED BY THE DESIGN ENGINEER TO THE COUNTY UTILITIES DIVISION OR APPROVED REPRESENTATIVE. WHERE APPROPRIATE, SUBMITTAL MUST INCLUDE FABRICATION DRAWINGS, WORKING DRAWINGS AND MATERIAL SPECIFICATIONS OR TEST DATA TO JUSTIFY SUBSTITUTIONS OR CHANGES. DESIGN ENGINEER SHALL AUTHORIZE ANY CHANGES FOR SUBSTITUTIONS AND CHANGES AND SUBMIT THEM TO THE COUNTY UTILITIES DIVISION FOR APPROVAL. UNAUTHORIZED SUBSTITUTIONS WILL BE REJECTED.

CR-5 MANUFACTURER'S CERTIFICATES:
WHEN CERTIFICATES OF COMPLIANCE AND TEST REPORTS ARE REQUIRED FOR MATERIALS, DOCUMENTS SHALL BE SUBMITTED TO THE COUNTY UTILITIES DIVISION OR APPROVED REPRESENTATIVE AT THE TIME OF MATERIALS DELIVERY TO THE JOBSITE.

CR-6 CONTRACTOR REQUIREMENTS:
CONTRACTOR PERFORMING WORK ON PUBLIC SEWER LINES SHALL BE A LICENSED NEW MEXICO UTILITY CONTRACTOR.

CONSTRUCTION MATERIALS

CM-1 SEWER PIPE: (CERTIFICATES REQUIRED)
A. VITRIFIED CLAY - REFER TO SECTION 125, NM APWA FOR EXTRA STRENGTH VCP.
B. PLASTIC (PVC) - REFER TO SECTION 121, NM APWA, AS MODIFIED BY THE COUNTY.
1. 4" THRU 15" (INCH) DIAMETER, ASTM D-3034 OR ASTM F-798 PIPE, MINIMUM PS-46 STRENGTH, SDR-35 OR EQUAL.
2. LARGER THAN 15" (IN.) DIAMETER: ASTM F-679 VOL. 08.04.
C. HDPE PIPE PER ASTM D-1248 CLASS III WHEN APPROVED BY SANTA FE COUNTY UTILITIES ENGINEER.
D. PVC RESTRAINED JOINTS: SERIES 1350 OR SERIES 1390 FOR COUPLINGS PRODUCED BY UNI-FLANGE CORPORATION, LOCKING COUPLINGS WITH NYLON SPINE, MARKED AS "YELLOWLINE" AND PRODUCED BY CERTAINTED CORPORATION, OR APPROVED EQUAL.
E. MANHOLE ADAPTERS: ASBESTOS CEMENT (AC) MANHOLE ADAPTERS, OR AC/PVC ADAPTER COUPLINGS.
F. BUILDING SERVICE STUBS: CAST IRON DWV, PVC SCH. 40 DWV.
G. SERVICE CONNECTIONS:
1. VCP PIPE: FACTORY TEE FITTINGS;
SECTION 125, NM APWA.
2. PVC PIPE: CAST IRON BODIES TAPPING SADDLE WITH STAINLESS STEEL TENSION STRAP AND FITTINGS; FOWLER "QUICKWAY", GENECO, HERSEY "PIONEER", OR APPROVED EQUAL.
H. SOIL CLASSIFICATION: THE UNIFIED SOIL CLASSIFICATION SYSTEM PER ASTM D 2487 TABLE 701.3-5 NM APWA.
I. POLYWRAP
1. 8 MIL MINIMUM, GROUP 2, LINEAR LOW DENSITY FLAT-TUBE, VIRGIN POLYETHYLENE FILM SHALL MEET OR EXCEED THE REQUIREMENTS OF AWWA C105-05, ANSI A21.5-05, ASTM D4976, AND NTA112-05. THE FILM IS MARKED SHOWING TRADEMARK, YEAR OF MANUFACTURE, TYPE OF RESIN, SPECIFICATION CONFORMANCE, APPLICABLE PIPE SIZE AND THE WORDS "WARNING CORROSION / LEAK PROTECTION - REPAIR ANY DAMAGE".

CM-2 MANHOLES:
A. CONCRETE MANHOLES: PRECAST REINFORCED CONCRETE RISERS, REDUCING CONES, AND ADJUSTMENT RINGS PER ASTM C 478 VOL. 04.05. BASES MAY BE FIELD PLACED CONCRETE OR PRECAST CONCRETE PER ASTM C 478 VOL. 04.05 (CERTIFICATES REQUIRED). CRACKED OR VISIBLY DEFECTIVE UNITS WILL BE REJECTED.
B. PIPE PENETRATIONS: PRECAST UNITS SHALL HAVE SUITABLE SIZED OPENINGS CAST INTO BARREL AT PROPER ANGLES FOR PIPE AND MANHOLE ADAPTERS.
C. MANHOLE STEPS: REFER TO SECTION 920.4.7 NM APWA POLYPROPYLENE ENCASED GRADE 60 STEEL BY M.A. INC. OR APPROVED EQUAL; 14"(IN.) WIDE, 16"(IN.) MAXIMUM SPACING.
D. FRAMES AND COVERS:
1. CASTING: SHALL CONFORM TO SECTION 160, 161 & 162, NM APWA CLASS 30B. (CERTIFICATES AND SHOP DRAWINGS REQUIRED)
2. MINIMUM COVER WEIGHT: 165 POUNDS
3. MINIMUM COMBINED WEIGHT: 365 POUNDS (7.5#)
4. BEARING SURFACES: SHALL BE MATCHED FOR A FIRM NON ROCKING SEAT BETWEEN FRAME AND COVER. MINIMUM SEATING WIDTH: 7/8"(IN.)
5. COATING: NONE
6. COVER LETTERINGS: SANTA FE COUNTY N.M. SANITARY SEWER
7. CASTINGS: CAST MANUFACTURER AND MODEL NUMBER ON FRAME AND COVER
8. CASTINGS TOLERANCE: +/- 1/16"(IN.) PER FOOT OF OVERALL DIMENSION. OUT OF ROUND CASTINGS AND LOOSE FITTING UNITS WILL BE REJECTED IN THE FIELD.

INSTALLATION

I-1 LAYING PIPE:
AS PER SECTION 900, NM APWA; PIPE SHALL BE PLACED AND BEDDED IN A FROST FREE TRENCH; GASKET SHALL BE FULLY SEATED AND NOT SLIPPED; PIPE SHALL BE LAID THROUGH MANHOLE LOCATIONS ON STRAIGHT AND UP TO 22 1/2 DEGREE DEFLECTIONS.

A. IF PIPE TRENCH INSTALLATION CONFIGURATION EXCEEDS THE LIMITS OF NM APWA STANDARDS, SECTION 700, OR AS DEFINED ON THE CONSTRUCTION PLANS, THE DESIGN ENGINEER WILL SPECIFY THE NEW PIPE CLASSIFICATION OR WALL THICKNESS.

B. TYPE I TRENCH CONFIGURATION IS NORMALLY USED WHEN TRENCH DEPTHS ARE 8'(FT.) OR LESS. TYPE II TRENCH CONFIGURATION IS NORMALLY USED WHEN TRENCH DEPTHS ARE 9'(FT.) AND OVER, DEPENDING ON SOIL CONDITIONS. REFER TO NM APWA STANDARDS SECTION 700.

I-2 MANHOLE CONSTRUCTION:

A. BASE:
1. CAST IN PLACE: ON UNDISTURBED FROST FREE SUBGRADE
2. PRECAST UNIT: ON PEA GRAVEL WITH COMPLETE EVEN BEARING
B. PRECAST BARREL:
1. JOINTS: FILL COMPLETELY WITH NON-SHRINK GROUT AND TROWEL
2. MANHOLE ADAPTOR: INSTALL OVER PVC PIPE AND FILL IN PENETRATION WITH NON-SHRINK GROUT.
3. CAST IN PLACE BASES: SHALL ACHIEVE A MINIMUM OF 2500 PSI COMPRESSIVE STRENGTH BEFORE SETTING PRECAST BARREL SECTIONS.

I-3 EXCAVATION AND BACKFILL:
AS PER SECTION 700, NM APWA; SATURATION BY FLOODING OR LETTING METHODS IS NOT PERMITTED WITHOUT A SOILS ENGINEERING REPORT RECOMMENDING THESE METHODS. MECHANICAL OR VIBRATORY COMPACTORS SHALL NOT BE USED ON THE BEDDING AND 12"(IN.) OF INITIAL BACKFILL. COMPACTION SHALL BE DETERMINED PER AASHTO T-180.

CM-3 SHALLOW SEWER POLYWRAP ENCASEMENT:

A. REQUIREMENTS:
1. WHEN THE PIPE COVER IS 36" (IN.) OR LESS.
2. WHEN ONLY SEWER PIPE CROSSES AN ARROYO.
3. WHEN A WATER LINE PASSES BELOW OR LESS THAN 18" (IN.) ABOVE THE EXISTING SEWER LINE.
4. WHEN A PARALLEL WATER LINE IS LESS THAN 10'(FT.) HORIZONTALLY AND LESS THAN 2'(FT.) ABOVE THE SEWER LINE.
5. THE SEWER LINE SHALL BE WRAPPED WITH GREEN TUBULAR POLYETHYLENE PROTECTION.
6. CONCRETE ENCASEMENTS SHALL NOT BE ALLOWED WITHOUT EXPRESSED WRITTEN AUTHORIZATION FROM SFCU DIVISION DIRECTOR ON A CASE BY CASE BASIS.

FIELD QUALITY CONTROL

FQC-1 TESTING AND INSPECTION:
A. SUPERVISION: CONDUCTED BY DESIGN ENGINEER.
B. CERTIFICATION: DESIGN ENGINEER SHALL CERTIFY THAT THE PROJECT HAS BEEN COMPLETED IN ACCORDANCE TO PLANS & SPECIFICATIONS AND SHALL SUBMIT A CERTIFICATION OF COMPLIANCE STATEMENT WITH STAMP AND SIGNATURE.
C. EQUIPMENT AND ASSISTANCE: PROVIDED BY CONTRACTOR.

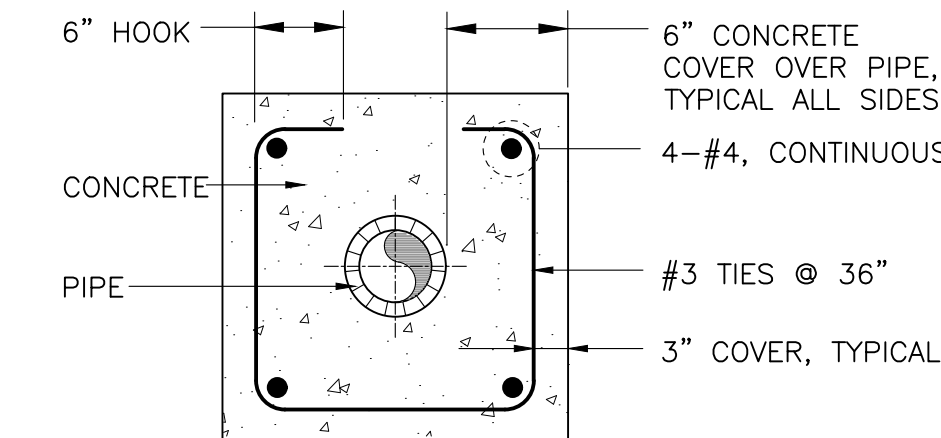
FQC-2 LINE AND GRADE: ALLOWABLE TOLERANCE BETWEEN STRUCTURES FROM DESIGN:
A. LINE: 0.20 FOOT
B. GRADE: 0.02 FOOT; PIPE SHALL NOT HOLD BACK ANY WATER

FQC-3 LEAKAGE TEST:
AIR TEST REQUIRED; REFER TO SECTION 901.7 NM APWA.

FQC-4 TELEVISION INSPECTION:
CONTRACTOR SHALL PROVIDE A CERTIFIED CCTV SEWERLINE INSPECTION AND RECORD TAPES AT THEIR OWN EXPENSE.

FQC-5 ALL CONNECTIONS TO EXISTING MANHOLES INCLUDES REHABILITATING THE TIE IN MANHOLE TO MEET THESE STANDARD CONSTRUCTION DETAILS.

NOTE: REVISIONS TO THIS SHEET SHALL BE MADE UNDER THE AUTHORITY OF THE SANTA FE COUNTY UTILITIES DIRECTOR AND/OR THE UTILITIES INFRASTRUCTURE MANAGER.



CONCRETE ENCASEMENT DETAIL "A"

MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

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

1. CAST IN PLACE: ON UNDISTURBED FROST FREE SUBGRADE
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REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

SANTA FE COUNTY TRENCHING DETAILS

APPROVED BY: REVIEWED BY: S. MORROW

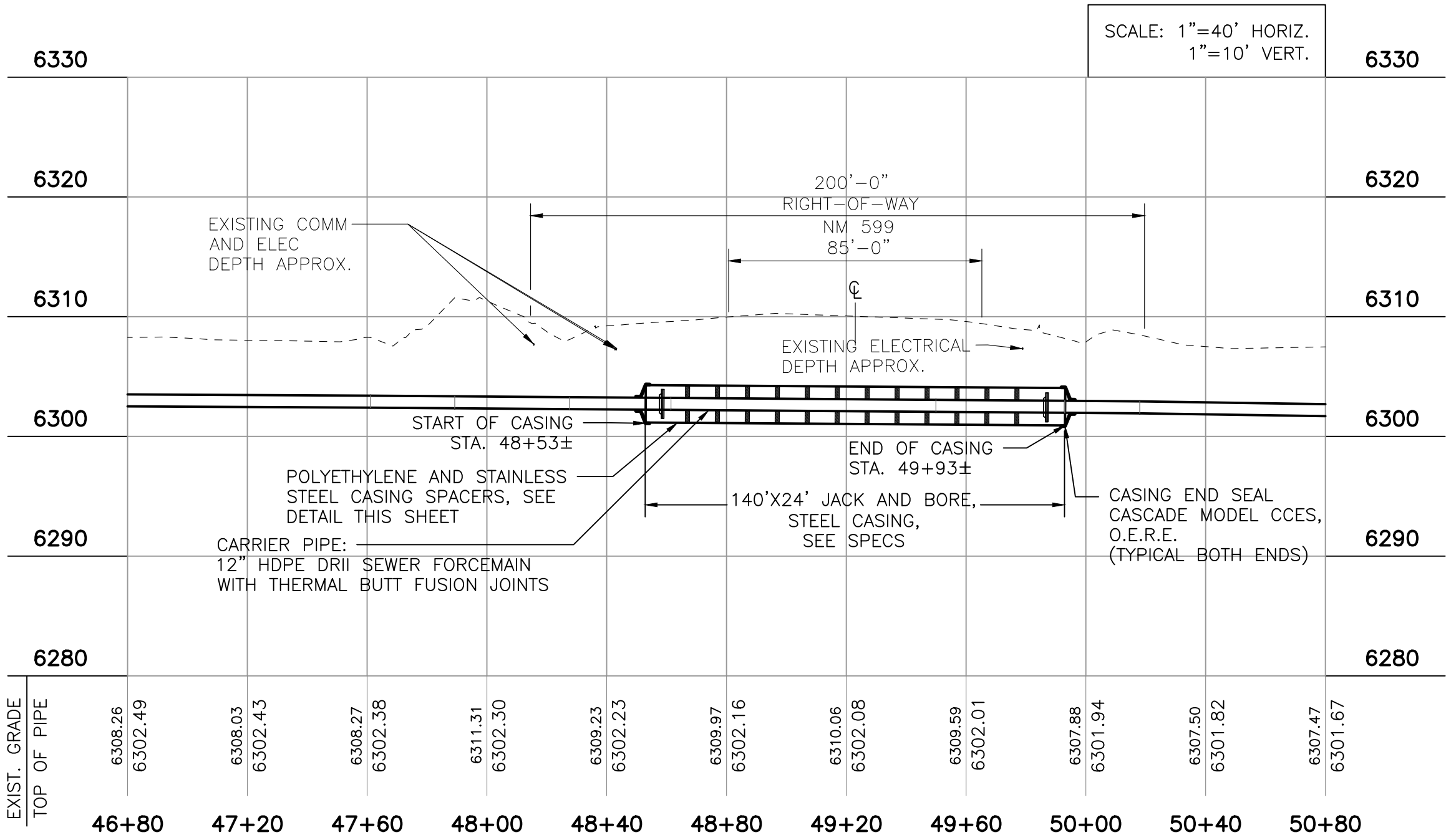
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DRAWN BY: JIG

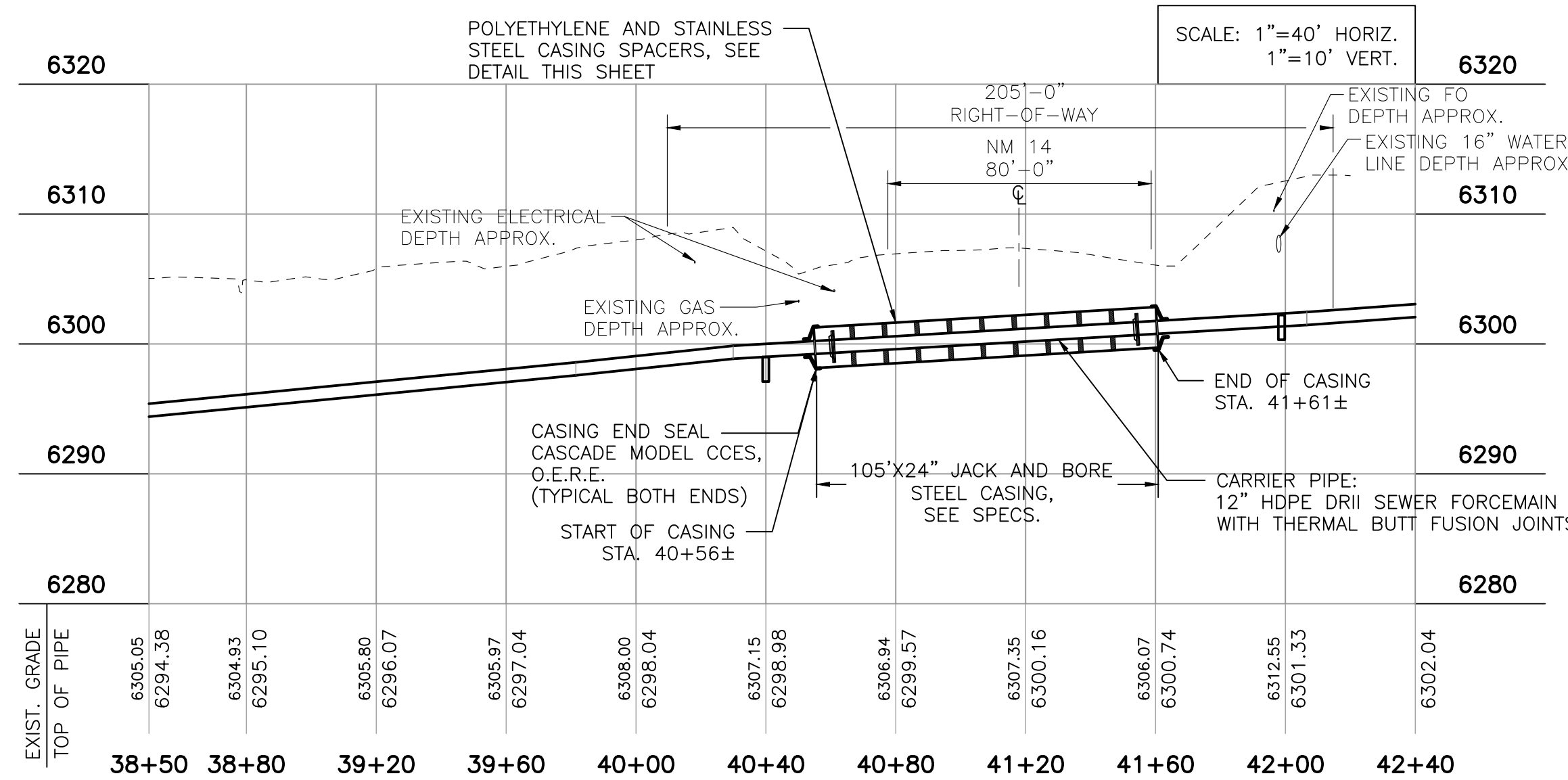
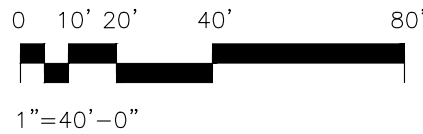
MOLZENCORBIN

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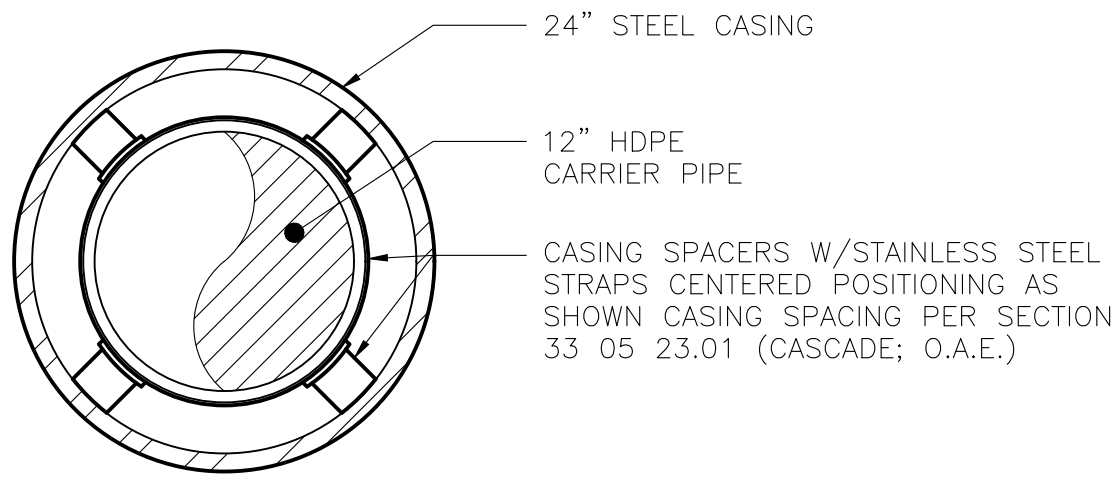
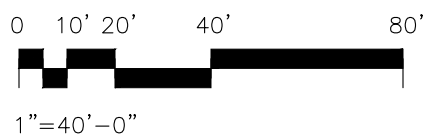
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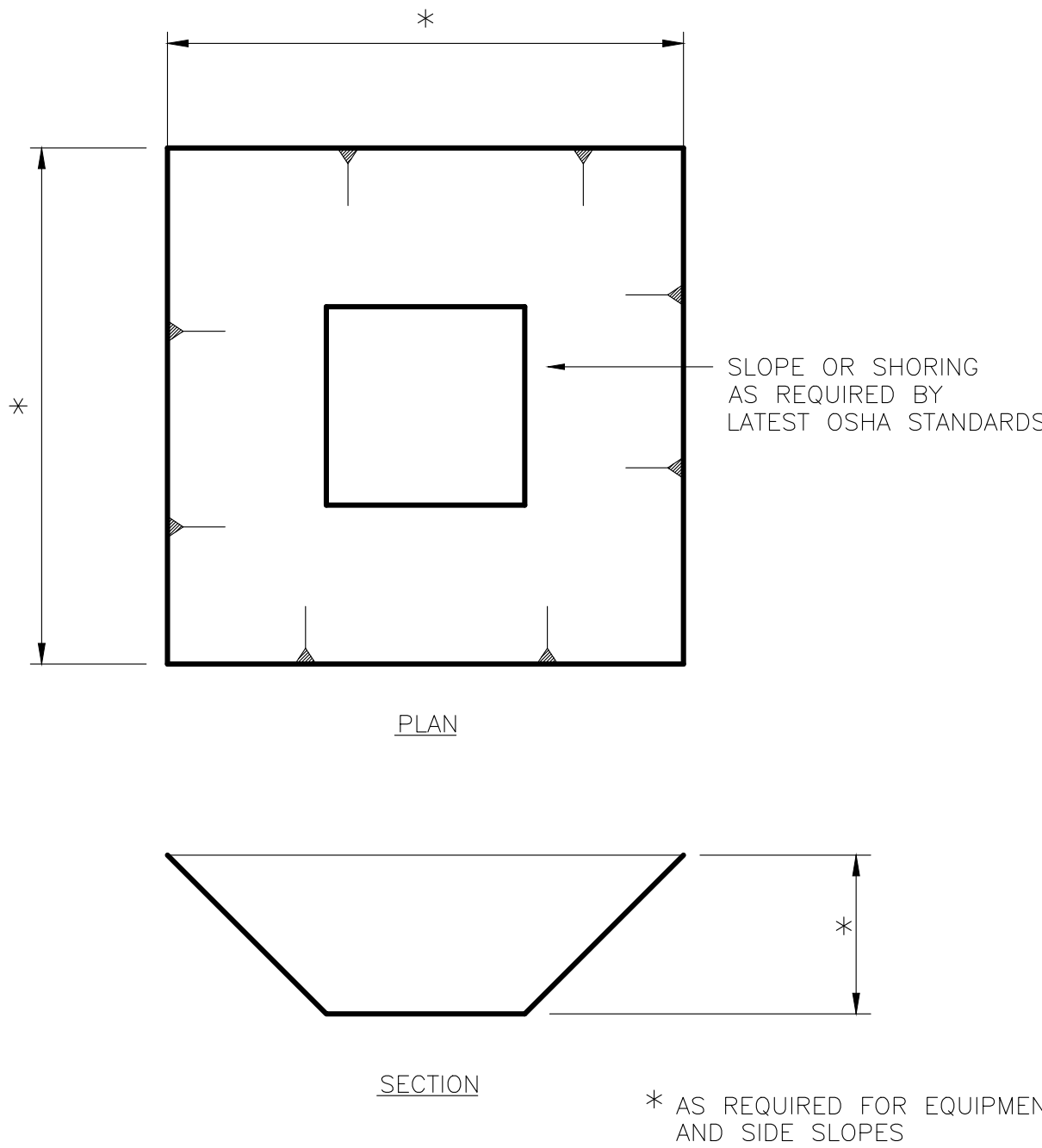
NM 599 CROSSING SEWER LINE DETAIL – STA. 49+23
SCALE: 1" = 40'



NM 14 CROSSING SEWER LINE DETAIL – STA. 41+08
SCALE: 1" = 40'



CASING SPACER DETAIL FOR DUCTILE IRON CARRIER PIPE
SCALE: NONE REFER TO SECTION 33 05 23.01 – JACKING AND BORING FOR REQUIREMENTS



BORE PIT DETAIL
SCALE: NONE



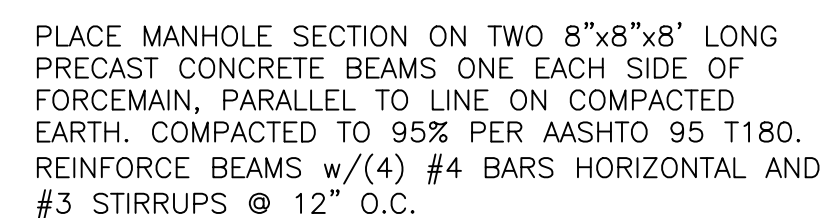
REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

JACK AND BORE CROSSING DETAILS

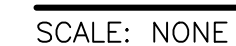
APPROVED BY: REVIEWED BY: S. MORROW
DATE: SEPTEMBER 2025 SHEET :
DRAWN BY: JIG W-502



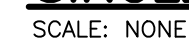
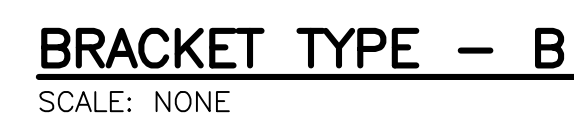
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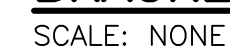
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1. ALL ANCHOR BOLTS, NUTS & WASHERS TO BE STAINLESS STEEL.
2. ALL "U" BOLTS TO BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.
3. ALL FASTENER BOLTS, NUTS & WASHERS TO BE STAINLESS STEEL.
4. ALL BRACKETS AND SUPPORTS TO BE FULL SEAL FILLET WELDED CONSTRUCTION.
5. ALL BRACKETS AND SUPPORTS TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.



SCALE: NONE



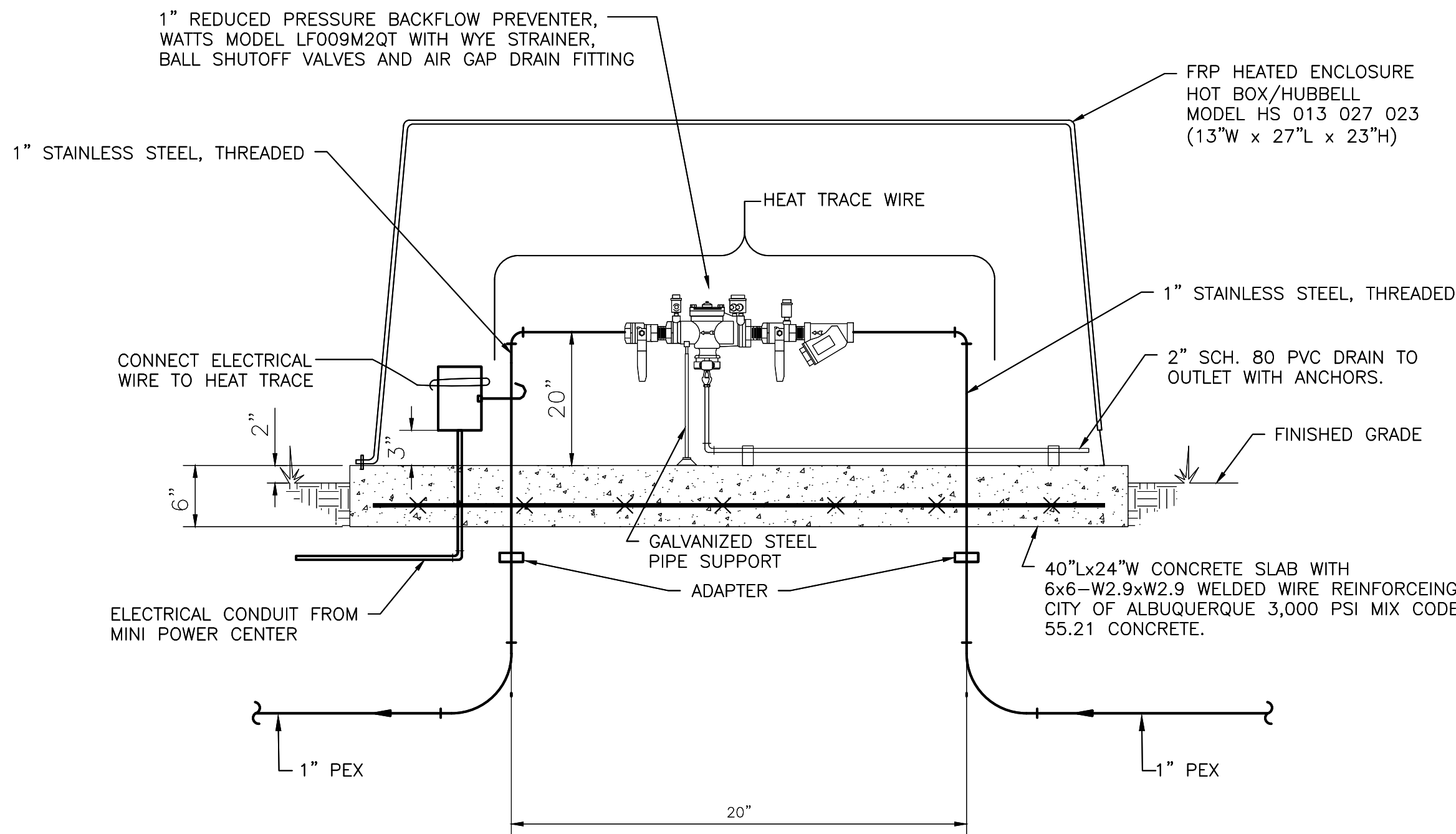
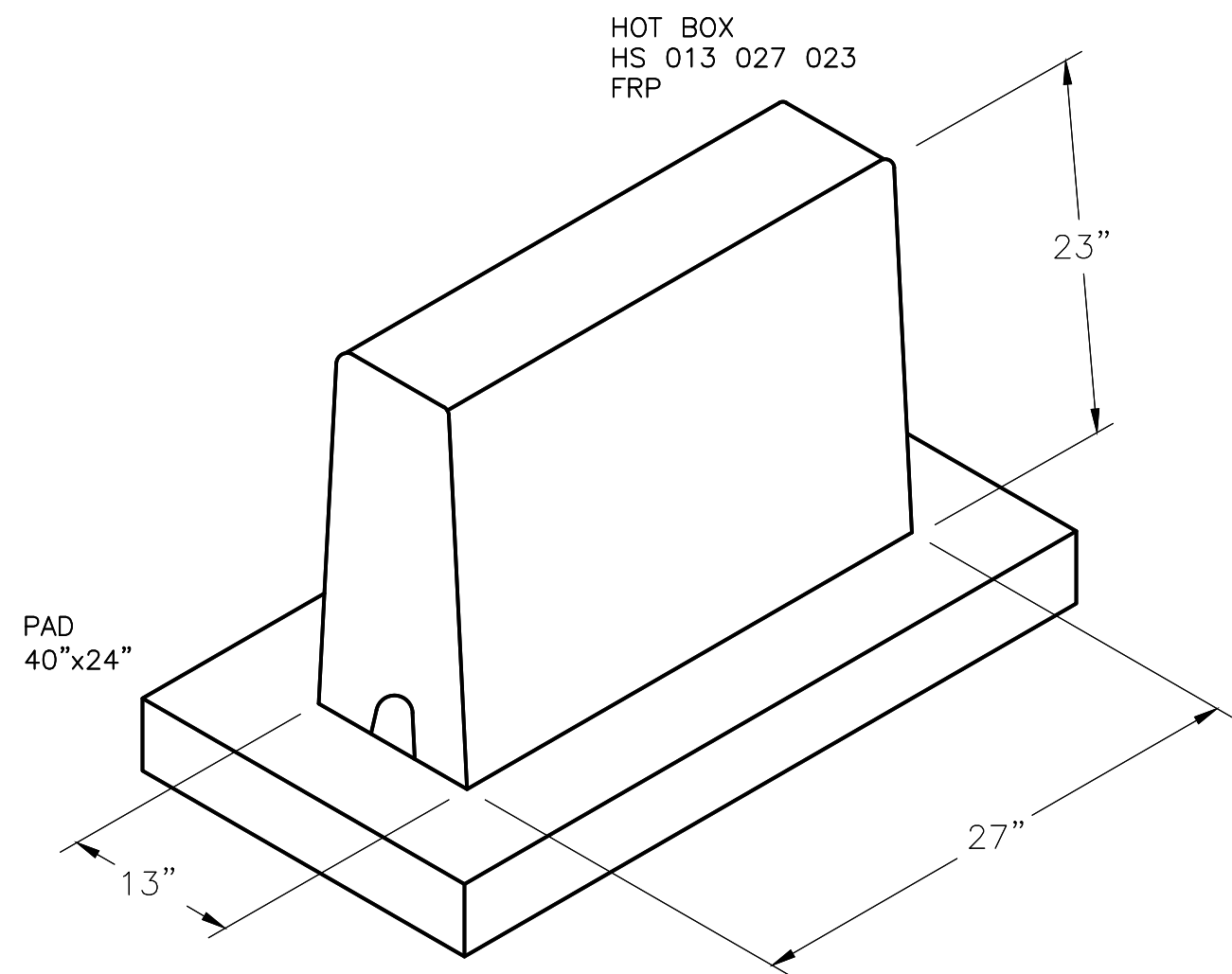
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DATE: JULY 2025	SHEET :
DRAWN BY: JJG	W-503

MOLZENCORBIN

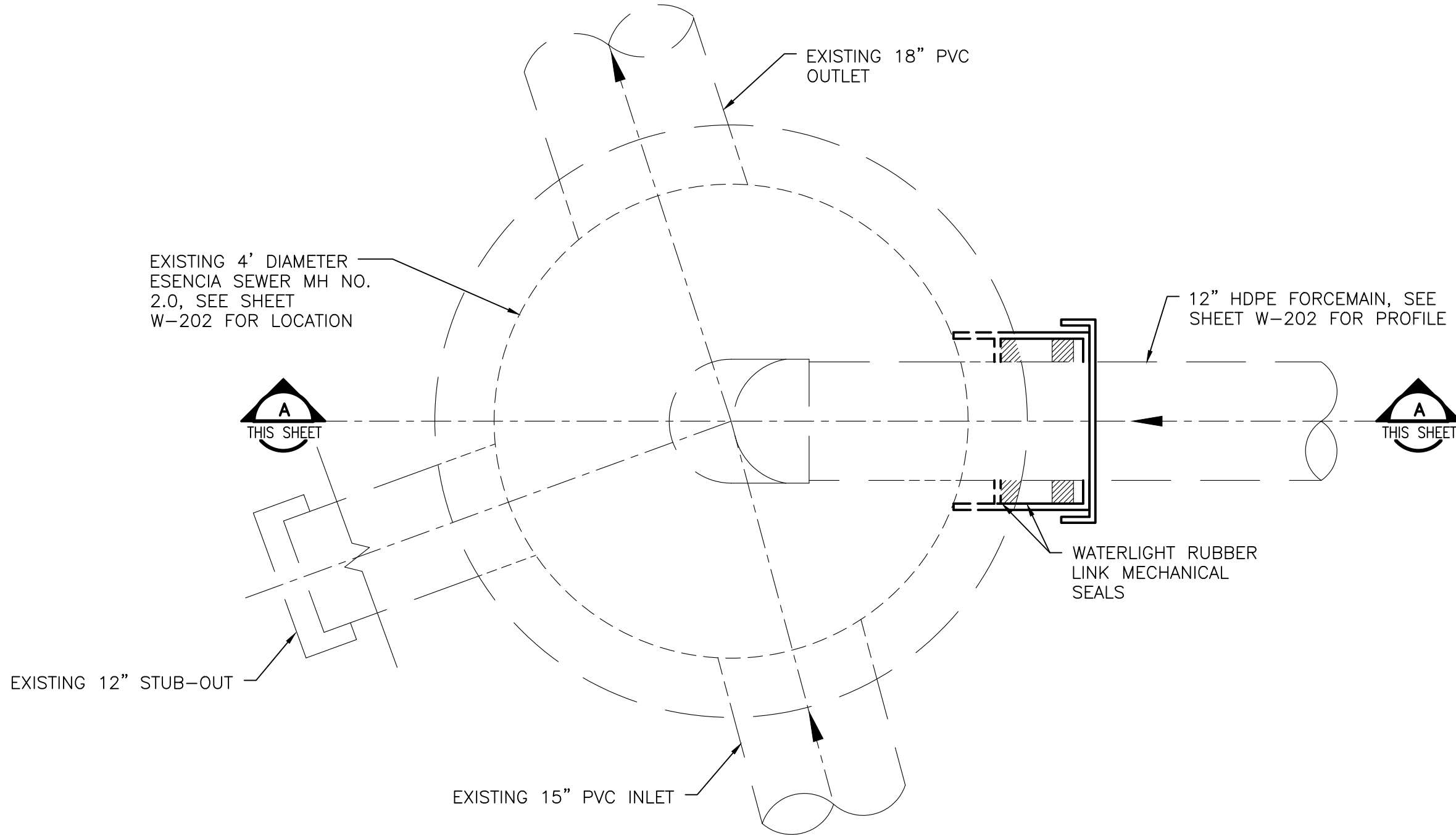
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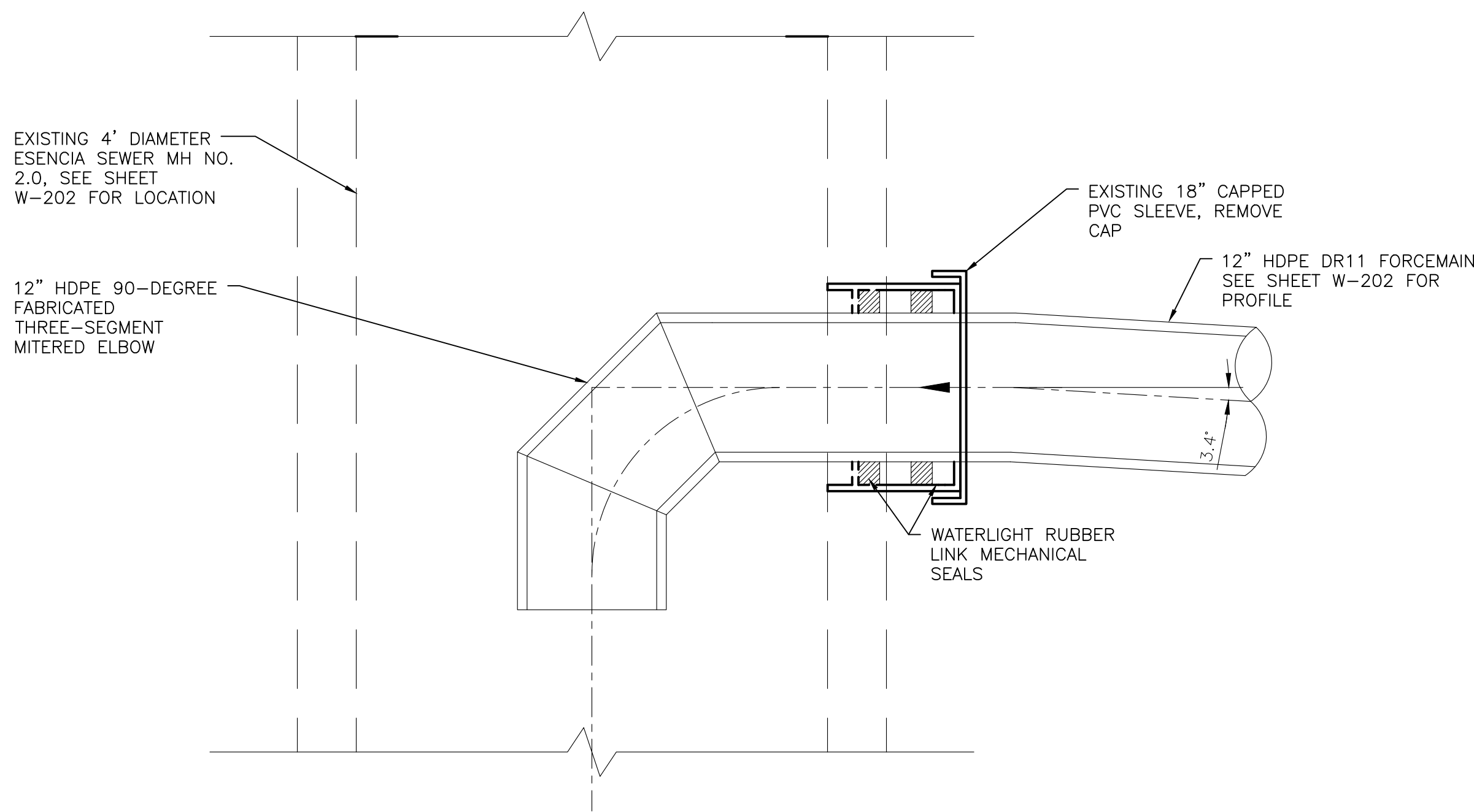
BACKFLOW PREVENTER DETAIL

SCALE: NONE



CONNECTION TO ESENCIA MANHOLE NO.20 – PLAN

SCALE: 1"=1'



CONNECTION TO ESENCIA MANHOLE NO.20 – SECTION A

SCALE: 1"=1'



REVISION		
SYMBOL	DATE:	BY:

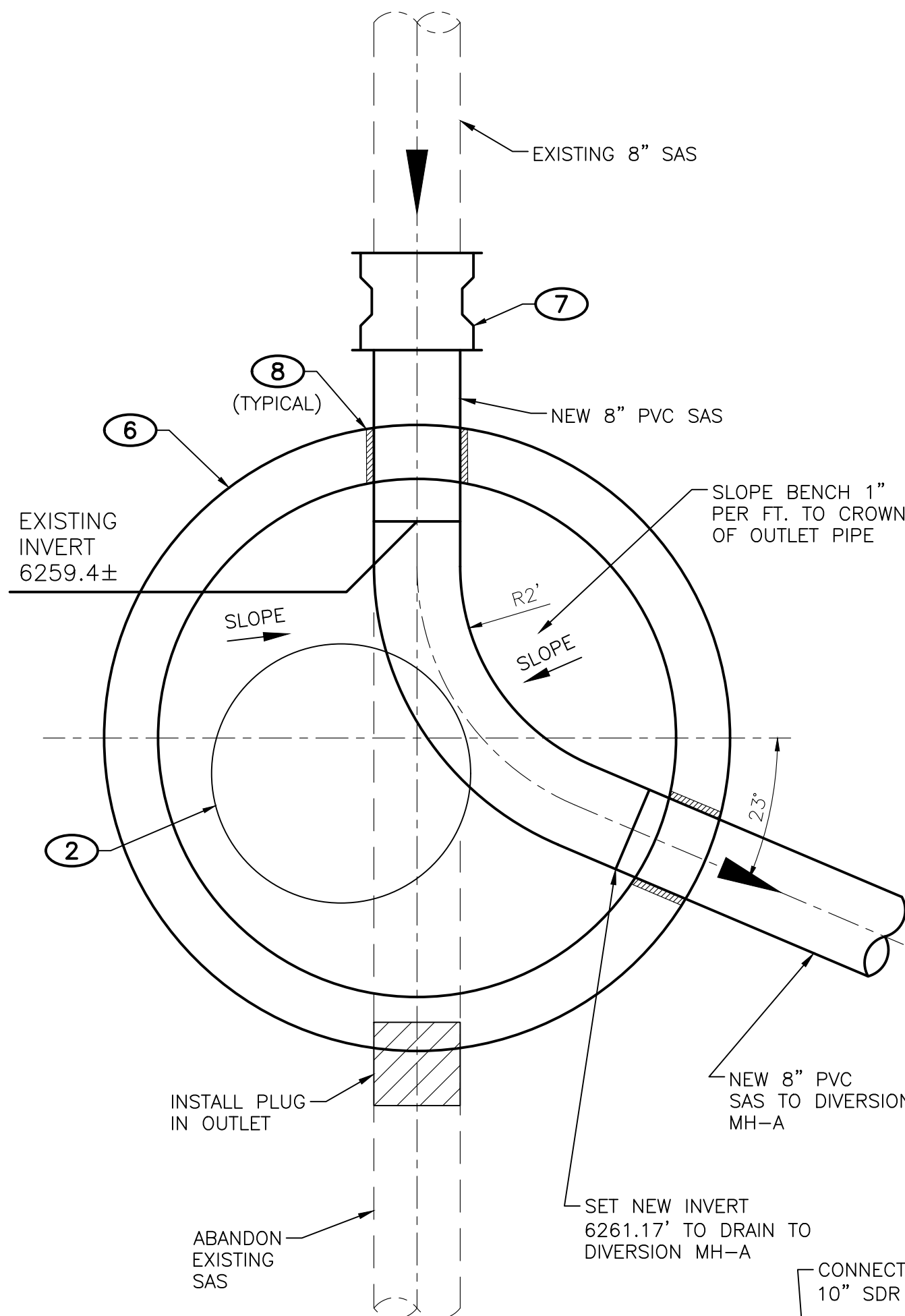
SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

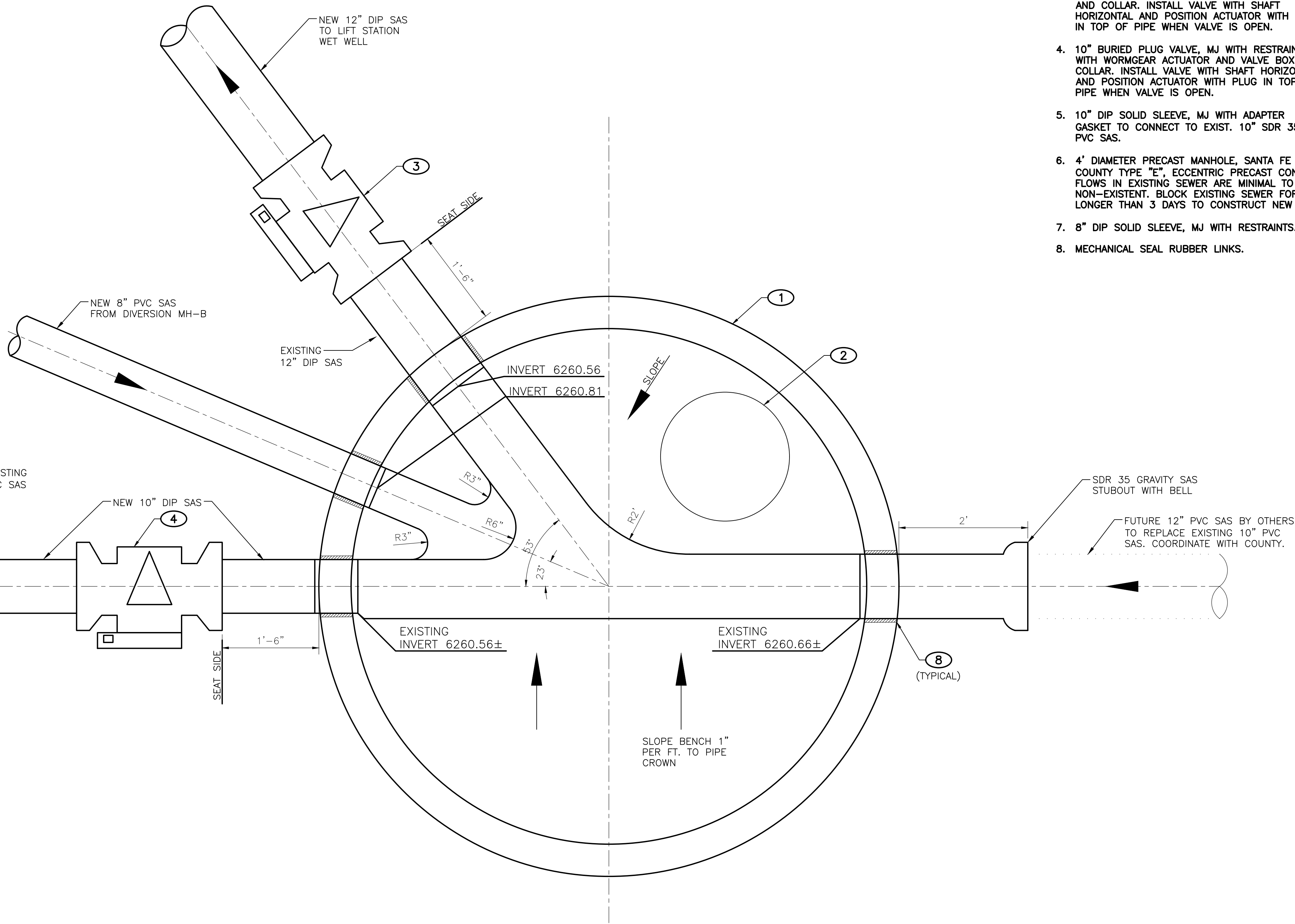
ESENCIA SEWER LINE CONNECTION AND
BACKFLOW PREVENTER DETAILS

APPROVED BY: S. MORROW
DATE: JULY 2025
DRAWN BY: JIG

REVIEWED BY:
SHEET:
W-504



DIVERSION MH-B -- PLAN
SCALE: 1" = 1'-0"



DIVERSION MH-A -- PLAN
SCALE: 1" = 1'-0"

KEYED NOTES

- 8" DIAMETER PRECAST MANHOLE, SANTA FE COUNTY TYPE "C" MH, WITH FLAT CONCRETE COVER, H2O TRUCK RATED. COORDINATE WITH COUNTY ON TAKING EXISTING 10" SAS OFF LINE TO BUILD THE NEW MH. COUNTY IS SCHEDULING WORK BY OTHERS TO INSTALL A TEMPORARY PIPE AROUND THE 10" SAS AND DISCHARGE INTO THE OLD ABAJO L.S. TO REPLACE IT WITH A NEW PERMANENT 12" SAS.
- 24" CAST IRON COVER WITH 6" HIGH RING AND GRADE RINGS AND CONCRETE COLLAR.
- 12" BURIED PLUG VALVE, MJ WITH RESTRAINTS, WITH WORM GEAR ACTUATOR AND VALVE BOX AND COLLAR. INSTALL VALVE WITH SHAFT HORIZONTAL AND POSITION ACTUATOR WITH PLUG IN TOP OF PIPE WHEN VALVE IS OPEN.
- 10" BURIED PLUG VALVE, MJ WITH RESTRAINTS, WITH WORMGEAR ACTUATOR AND VALVE BOX AND COLLAR. INSTALL VALVE WITH SHAFT HORIZONTAL AND POSITION ACTUATOR WITH PLUG IN TOP OF PIPE WHEN VALVE IS OPEN.
- 10" DIP SOLID SLEEVE, MJ WITH ADAPTER GASKET TO CONNECT TO EXIST. 10" SDR 35 PVC SAS.
- 4' DIAMETER PRECAST MANHOLE, SANTA FE COUNTY TYPE "E", ECCENTRIC PRECAST CONE. FLOWS IN EXISTING SEWER ARE MINIMAL TO NON-EXISTENT. BLOCK EXISTING SEWER FOR NO LONGER THAN 3 DAYS TO CONSTRUCT NEW MH.
- 8" DIP SOLID SLEEVE, MJ WITH RESTRAINTS.
- MECHANICAL SEAL RUBBER LINKS.

MOLZENCORBIN

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



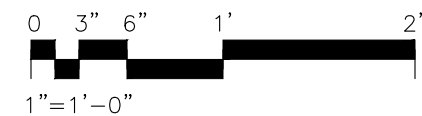
REVISION		
SYMBOL	DATE:	BY:

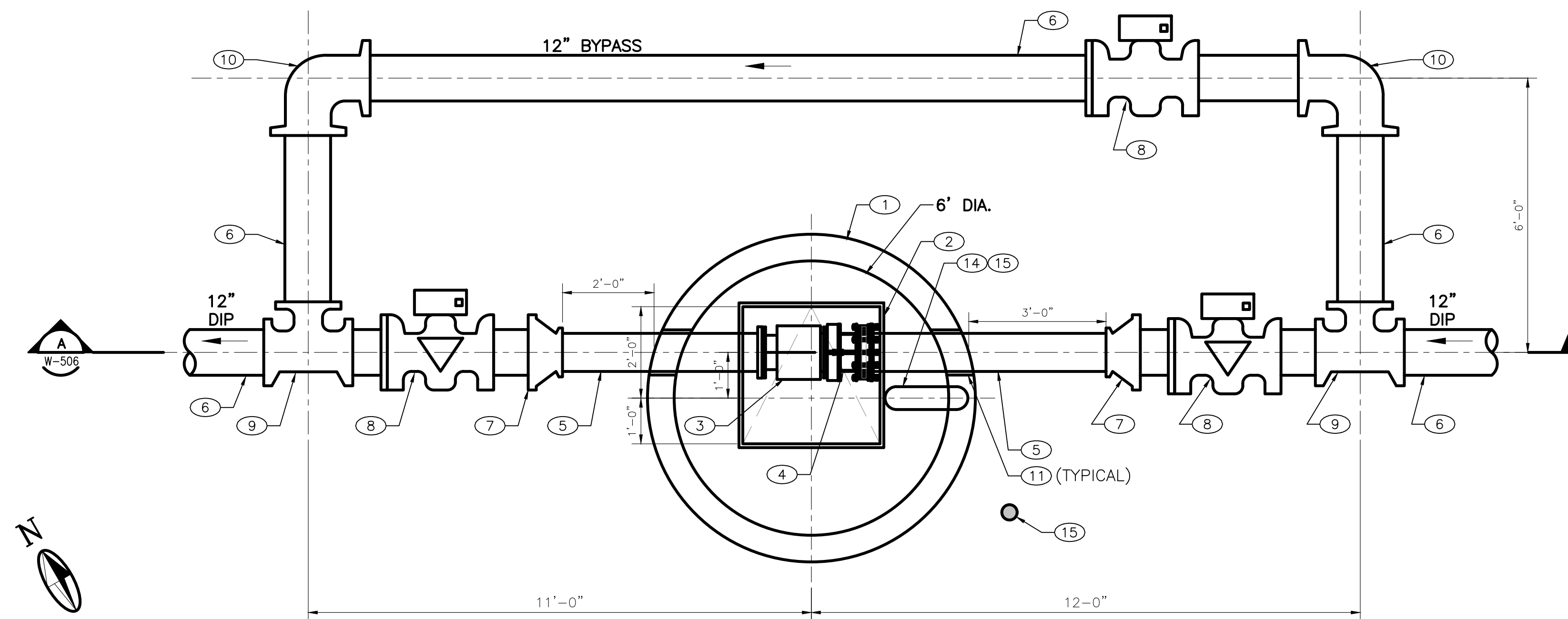
SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
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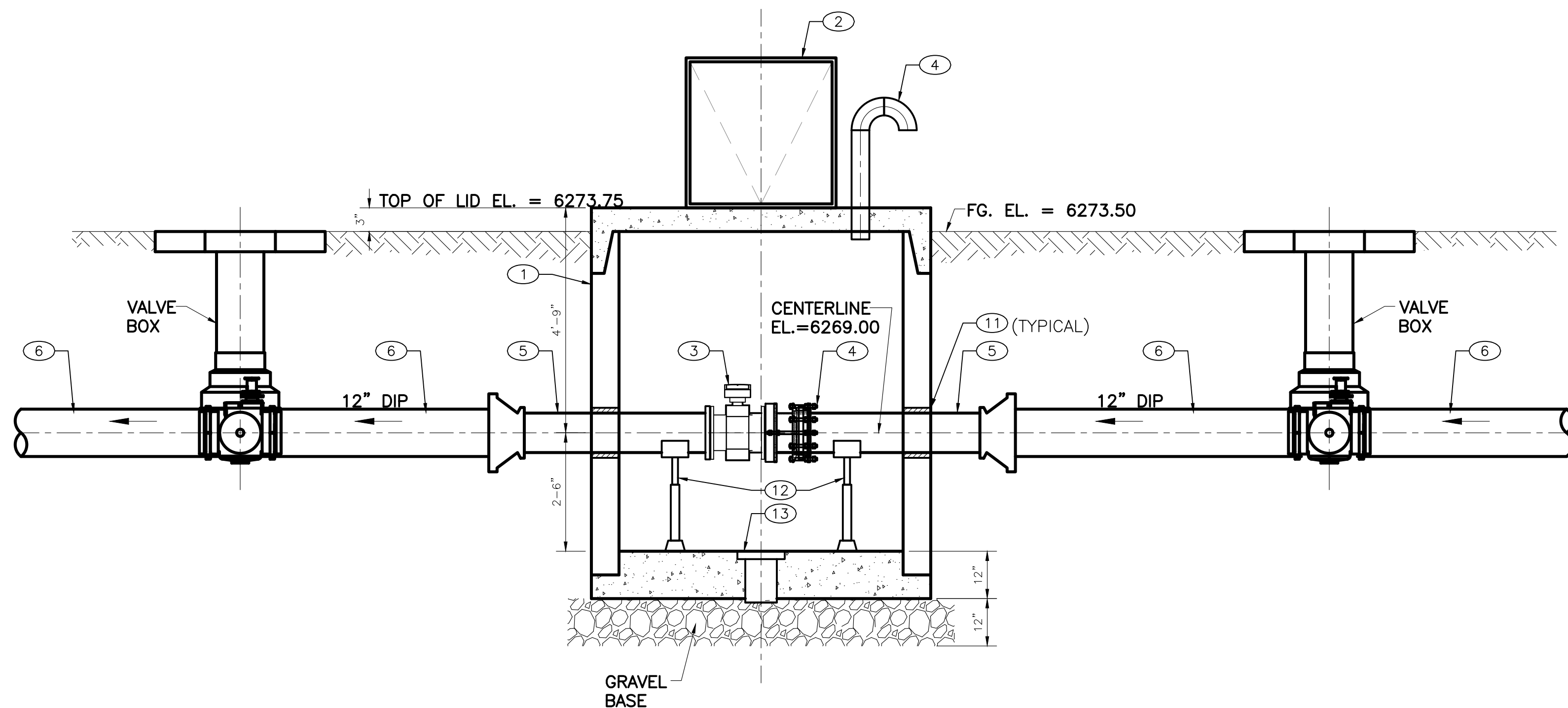
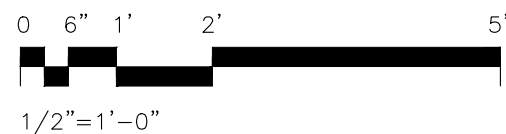
DIVERSION MH-A AND MH-B DETAILS

APPROVED BY: _____ REVIEWED BY: S. MORROW
DATE: SEPTEMBER 2025 SHEET: _____
DRAWN BY: JIG W-505





METER VAULT PLAN
SCALE: 1/2"=1'-0"



SECTION A
SCALE: NONE

GENERAL NOTES

- 6' DIAMETER PRECAST MANHOLE, SANTA FE COUNTY TYPE "C" MH, WITH FLAT CONCRETE COVER, H2O TRUCK RATED.
- METER VAULT HINGED ACCESS HATCH, CLEAR OPENING = 36" X 36", H2O TRUCK RATED, SINGLE LEAF, CHANNEL FRAME. SEE SPECIFICATION 43 25 13.
- 10" MAG METER, FLANGED. SEE SPECIFICATION 40 71 13.13.
- 10" DISMANTLING JOINT, CLASS D FLANGES.
- 10" DIP SPOOL, FL X PE.
- 12" DIP SEGMENTS, PE X PE, LENGTHS AS REQUIRED.
- 12" X 10" DIP REDUCER, MJ, RESTRAINED.
- 12" BURIED PLUG VALVE, MJ WITH RESTRAINTS, WITH WORM GEAR ACTUATOR, 2" AWWA OPERATING NUT AND VALVE BOX AND COLLAR. INSTALL VALVE WITH SHAFT HORIZONTAL AND SEAT SIDE AS SHOWN. POSITION ACTUATOR WITH PLUG IN TOP OF PIPE WHEN VALVE IS OPEN. SEE SECTION 40 27 02.01 - PLUG VALVES, FOR DETAILS.
- 12" DIP TEE, MJ, RESTRAINED.
- 12" DIP 90 DEGREE BEND, MJ. RESTRAINED.
- MECHANICAL RUBBER LINK SEAL.
- GALVANIZED PIPE SUPPORT MOUNTED ON 1" GROUT PAD.
- 12" DIAMETER FLOOR DRAIN THROUGH SLAB WITH REMOVABLE CAST IRON GRATE.
- 6" SCHEDULE 40 GALVANIZED WELDED STEEL GOOSENECK VENT PIPE WITH 10-MESH STAINLESS STEEL BIRD SCREEN.
- BOLLARD.

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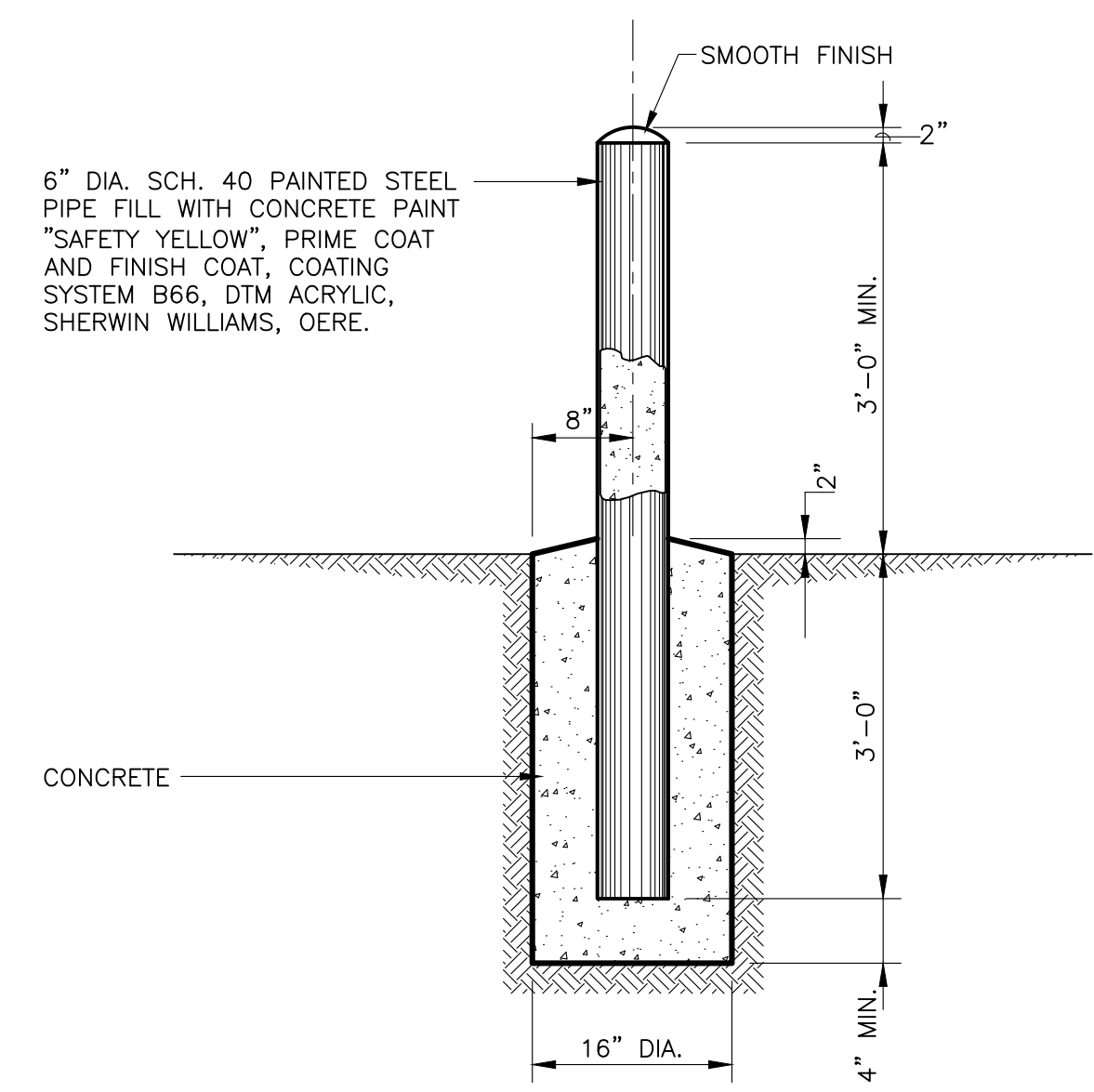
REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

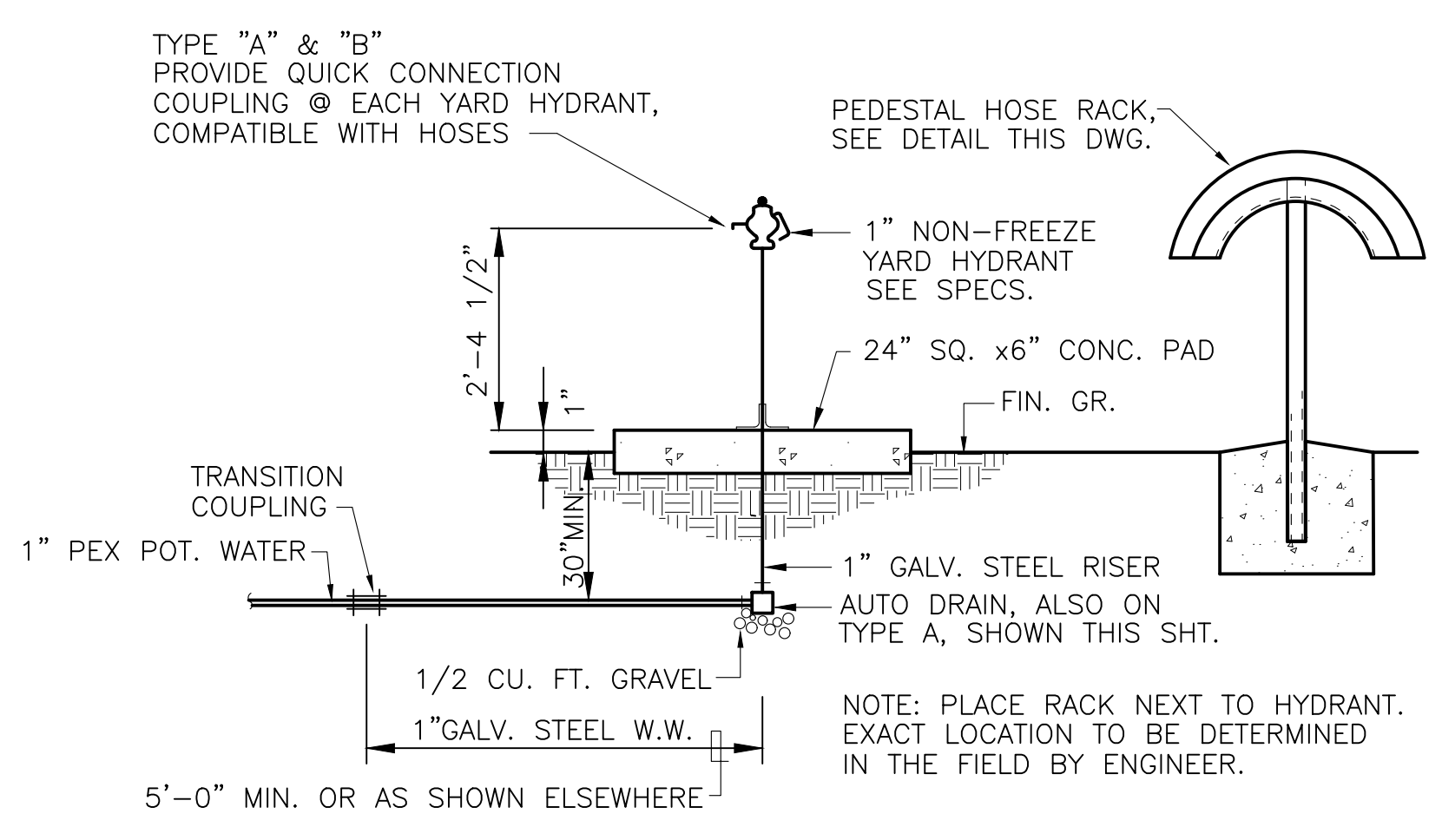
PROJECT NAME:
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RE-DIRECT

METER VAULT PLAN AND SECTION

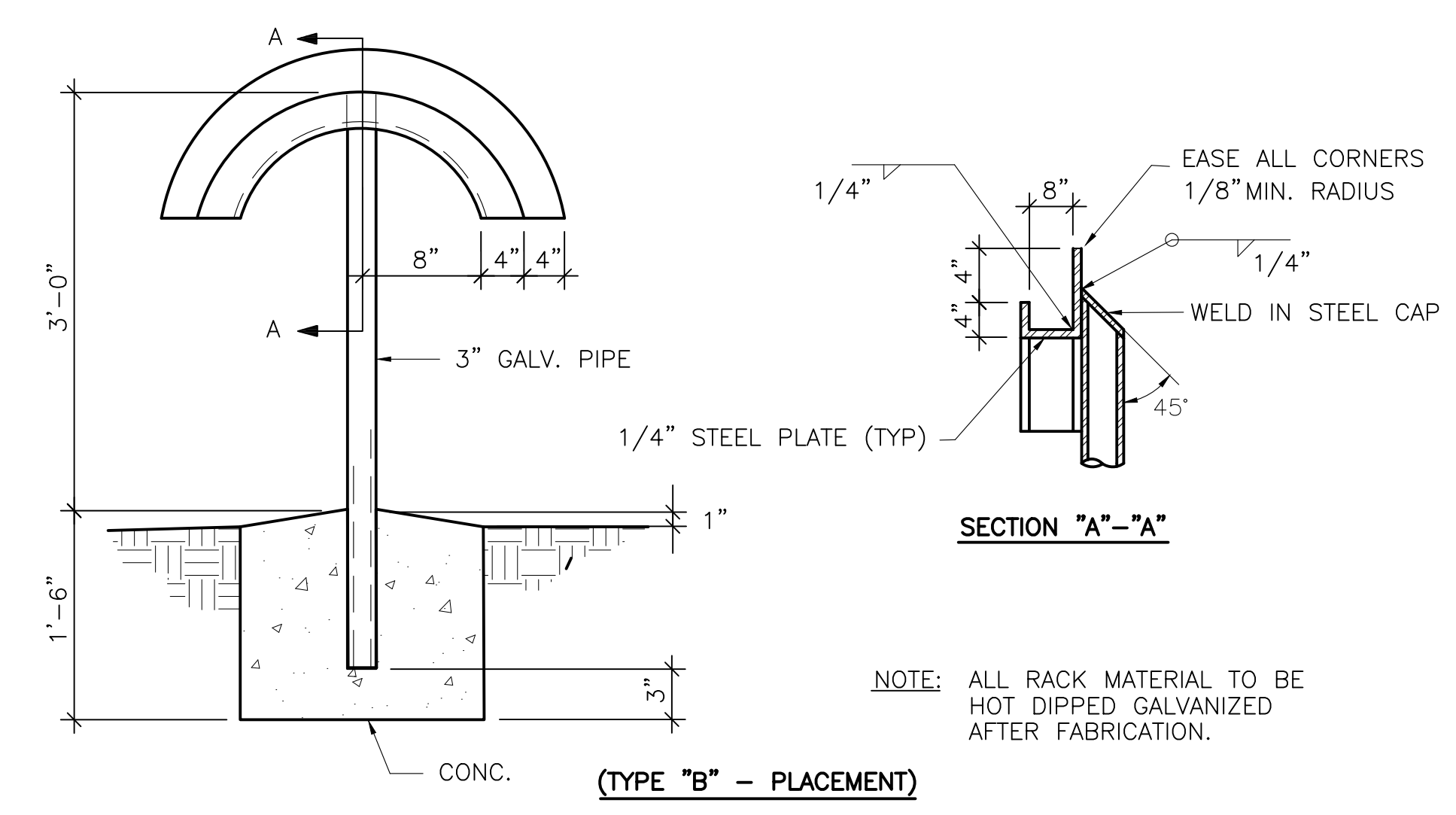
APPROVED BY: _____ REVIEWED BY: S. MORROW
DATE: JULY 2025 _____ SHEET: _____
DRAWN BY: JIG _____ W-506



PIPE BOLLARD DETAIL
SCALE: NONE



TYPICAL NON-FREEZE YARD HYDRANT - TYPE B
SCALE: NONE

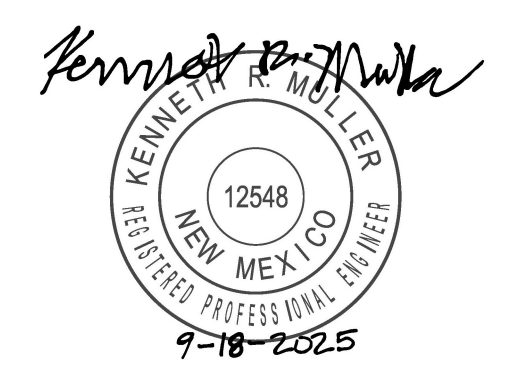


HOSE RACK DETAIL - PEDESTAL MOUNTED
SCALE: NONE

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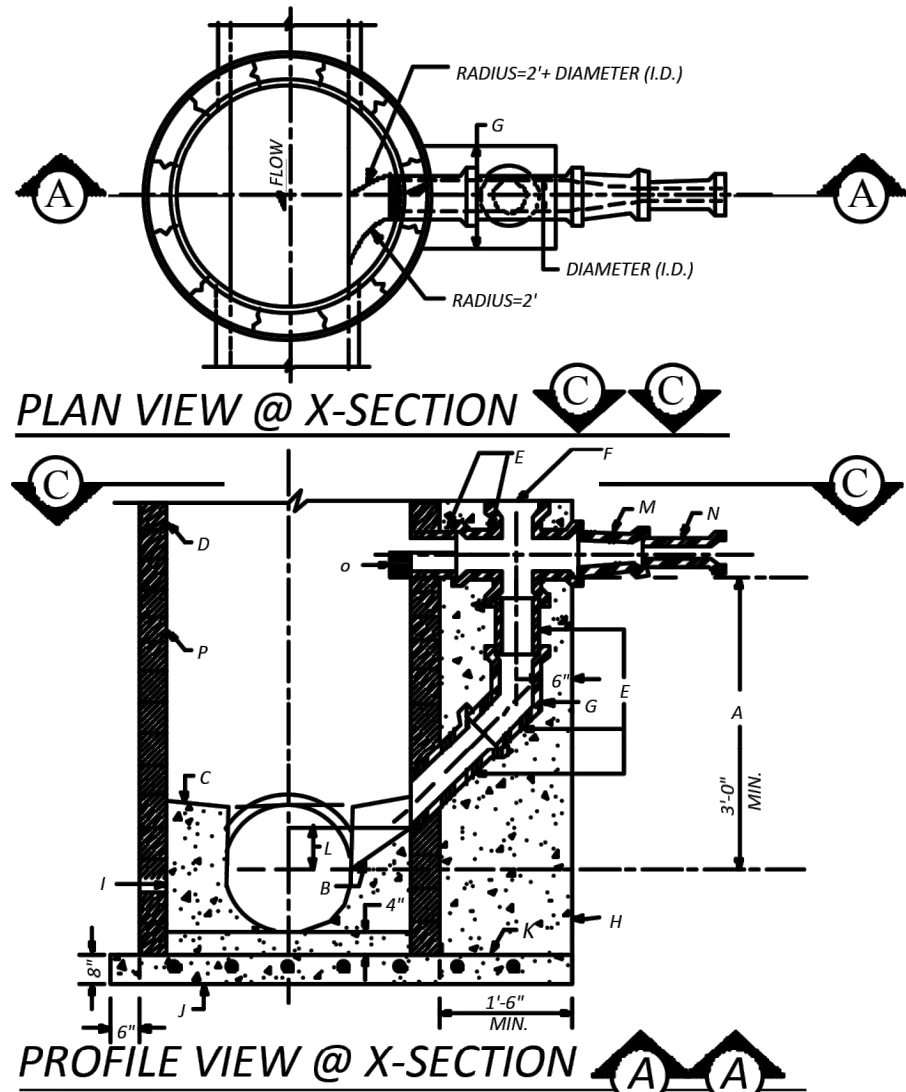
SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

 SANTA FE COUNTY	PROJECT NAME:
	ABAJO LIFT STATION RE-DIRECT

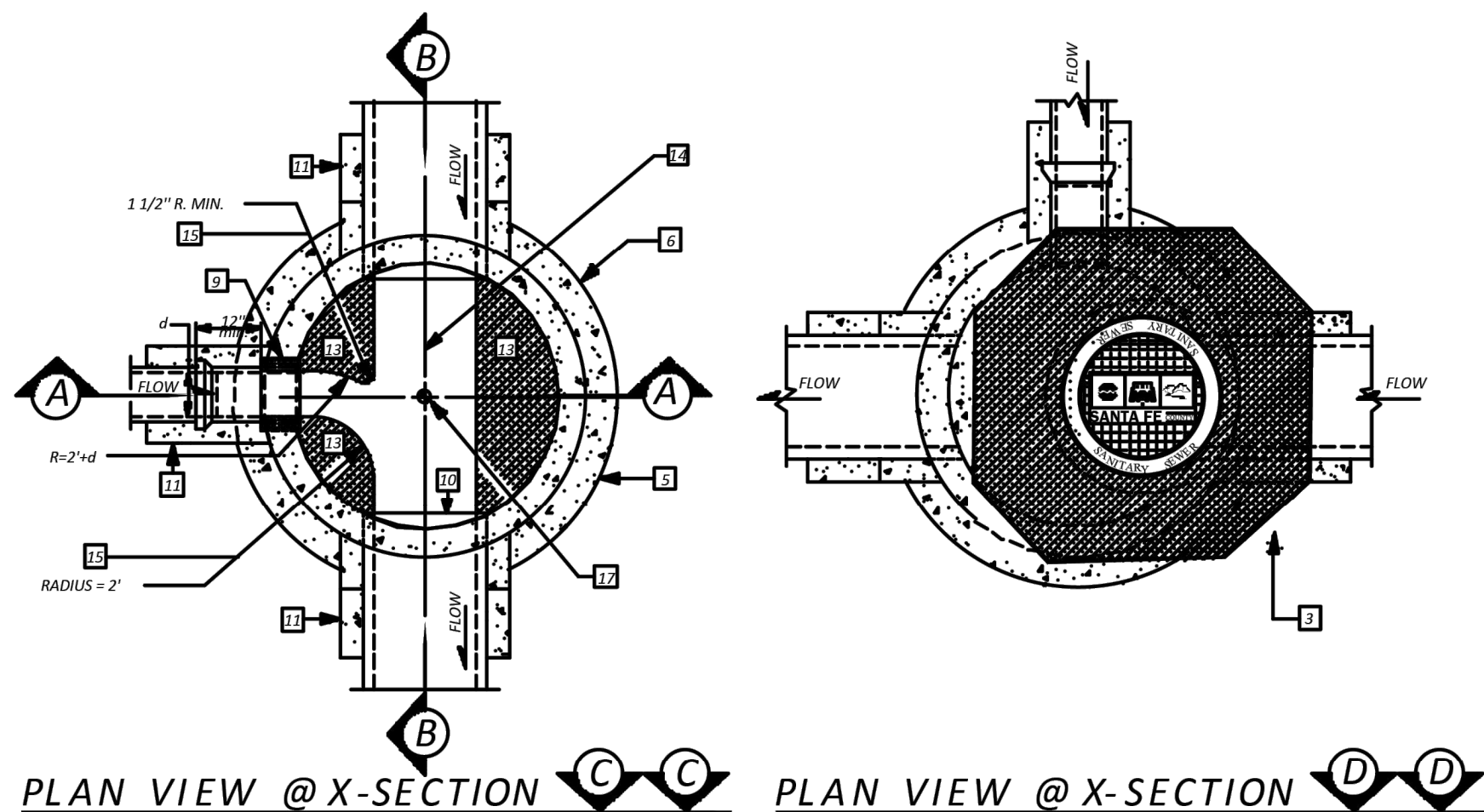
MISCELLANEOUS DETAILS		
APPROVED BY:	REVIEWED BY: S. MORROW	
DATE: SEPTEMBER 2025	SHEET:	
DRAWN BY: JIG	W-507	

LEGEND	
ITEM	DESCRIPTION
1	MANHOLE FRAME & COVER, refer to manhole frame and cover detail Dwg. No. SAS-4
2	CONCRETE ADJUSTMENT RINGS OR CONCRETE BRICK, refer to concrete adjustment detail Dwg. No. SAS-5
3	CONCRETE COLLAR, refer to concrete collar detail Dwg. No. SAS-6
4	PRECAST REINFORCED CONCRETE RISER, CONE or FLAT TOP, with 5"(in) wall thickness, refer to general note CM-2
5	PRECAST REINFORCED CONCRETE BASE RISER, with suitable sized openings, refer to general note CM-2A
6	CONCRETE BASE, refer to concrete base detail Dwg. No. SAS-7
7	SEWER PIPE, refer to general note CM-3
8	5"(in) GROUT FILLET, on upper half of pipe and around base
9	ADAPTER, MANHOLE, refer to manhole adapter detail Dwg. No. SAS-8
10	PIPE SUPPORT, CONCRETE, shall extend out-side of manhole a maximum of 18" (in) to bell of first joint and shall cradle pipe half pipe
11	PIPE PENETRATION INTO MANHOLE, refer to manhole adapter detail Dwg. No. SAS-8
12	CONCRETE FILL, 3000 p.s.i., refer to general note CR-5
13	SHELF, to be 9"(in) minimum width with 1"(in) per 1'-0" slope, from crown of pipe
14	PIPE SHALL BE LAID through the manhole on straight runs, and up to 22 1/2 degree deflections, cut upper half of pipe after manhole has been completed and inspected by engineer.
15	HAND FORMED CHANNELS, shall be on a uniform radius and shall not hold water
16	INVERT ELEVATIONS OF LATERAL LINES, shall be the same as the springline elevation of the sewer main, where possible
17	CHANGE SLOPE OF PIPE, at center of manhole
18	APPROVED WATER STOP, to be with type of pipe
19	LOCATE WIRE, See Note H, this sheet for information

- CONSTRUCTION NOTES
- A. 1'(FT) MINIMUM DISTANCE OF VERTICAL DROP, LESS THAN 3'(FT) DISALLOWS DROP MANHOLE
- B. FORM PIPE INVERT IN SHELF, INVERT TO SPRINGLINE
- C. SHELF SLOPE, 1"(IN) PER FT.
- D. MANHOLE TYPE FOR UPPER PORTION IS SPECIFIED IN MANHOLE TYPE "E" DETAIL DWG NO. SAS-2
- E. USE D.I. OR P.V.C. (SDR 35) PIPE THROUGHOUT DROP, ALL PIPING IN DROP STRUCTURE FROM THE CROSS IS INCREASED ONE PIPE SIZE FROM THE SERVICE LINE
- (SERVICE="8" DROP="10")
- F. EXTEND DROP SECTION TO THE SURFACE WITH THE SAME PIPE DIAMETER PROVIDE CROSS OF SAME DIAMETER AS RISER PIPE, BRASS CAP, CLEAN OUT, AND INCREASE ACCORDINGLY THE SIZE OF THE CONCRETE COLLAR TO ENCOMPASS THE MANHOLE PLUS THE CLEANOUT.
- G. USE BELL AND SPIGOT 65" LONG BRIDUS BEND
- H. CONCRETE SUPPORT WIDTH EQUALS PIPE O.D. PLUS 6"(IN) MINIMUM EACH SIDE.
- I. CONCRETE FILL.
- J. CAST IN PLACE REINFORCED CONCRETE BASE REQUIRED, CONCRETE BASE TO BE POURED IN PLACE USING NO. 4 BARS AT 1'(FT) O.C. EACH WAY FOR MANHOLE DEPTH OF 16'(FT) OR GREATER, NO. 4 BARS AT 12"(IN) O.C. EACH WAY FOR MANHOLE DEPTH LESS THAN 16'(FT) IN DEPTH
- K. FOR NEW DROP ON EXISTING MANHOLE CONSTRUCT 3X3 REINFORCED CONCRETE BASE BEFORE CONSTRUCTING DROP SUPPORT
- L. MINIMUM 2"(IN) ABOVE SPRINGLINE OR AS SHOWN ON PLAN.
- M. REDUCER
- N. SERVICE LINE
- O. EXTEND PIPE 3"(IN) MINIMUM 6"(IN) MAXIMUM INTO MANHOLE TOP 1/2 PIPE REMOVED.
- P. DROP MANHOLES AND MANHOLES THAT HAVE A STEEP SLOPE INLET LINE OF 8% OR GREATER SHALL BE REQUIRED TO USE A POLYURATHANE TYPE LINING, PLEASE REFER TO SECU WATER UTILITIES CONSTRUCTION STANDARDS AND SPECIFICATIONS REFERENCE BOOK FOR DETAILS.

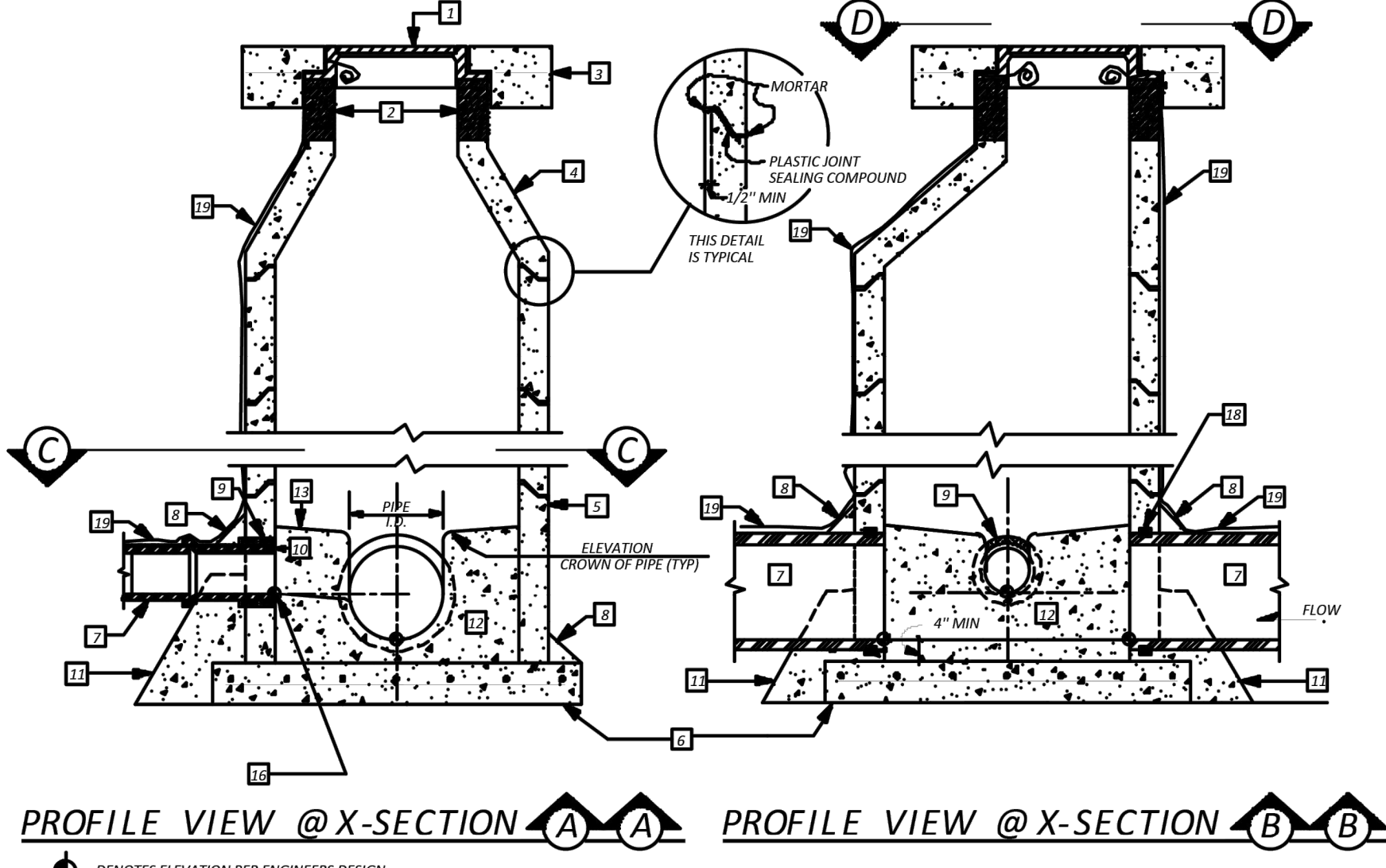


DROP MANHOLE DETAIL DWG.#: SAS-1



PLAN VIEW @ X-SECTION

PLAN VIEW @ X-SECTION

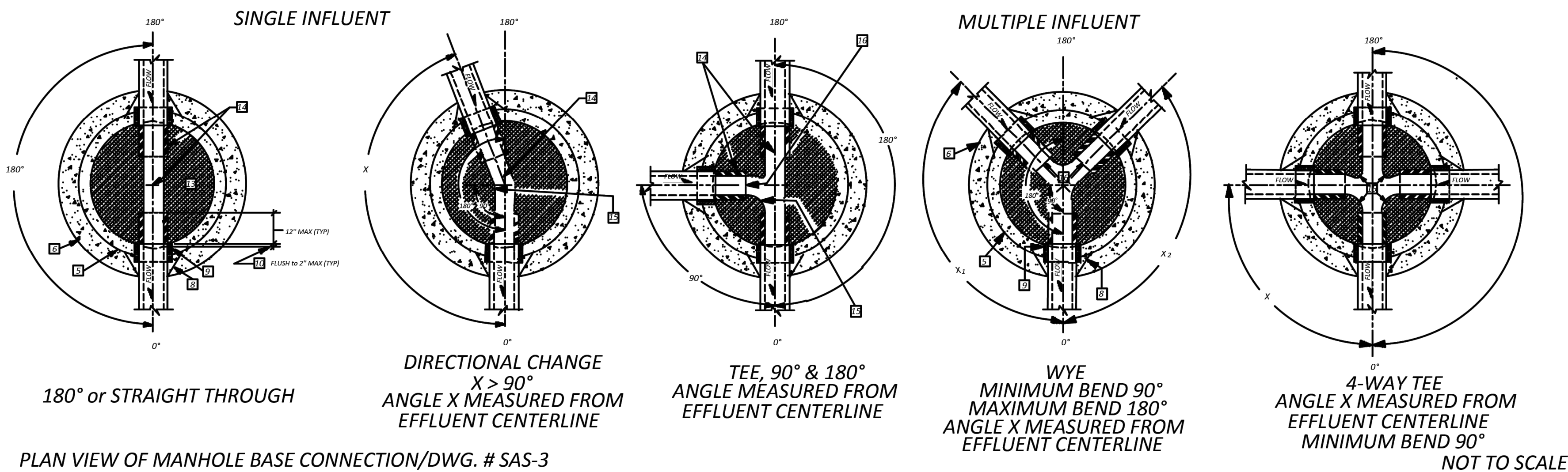


PROFILE VIEW @ X-SECTION

PROFILE VIEW @ X-SECTION

MANHOLE TYPE "E" DETAIL/DWG # SAS-2

(See Dwg. # SAS-14 for Type "C" Flat Top)



180° or STRAIGHT THROUGH

DIRECTIONAL CHANGE
X > 90°
ANGLE X MEASURED FROM
EFFLUENT CENTERLINE

TEE, 90° & 180°
ANGLE MEASURED FROM
EFFLUENT CENTERLINE

WYE
MINIMUM BEND 90°
MAXIMUM BEND 180°
ANGLE X MEASURED FROM
EFFLUENT CENTERLINE

4-WAY TEE
ANGLE X MEASURED FROM
EFFLUENT CENTERLINE
MINIMUM BEND 90°

NOT TO SCALE

GENERAL NOTES

- CONSTRUCTION REQUIREMENTS
- CR-1 MATERIALS AND WORK:
- CURRENT NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (referred to as NM APWA) WITH MODIFICATIONS NOTED BY SANTA FE COUNTY UTILITIES.
- CR-2 APPROVED PLANS:
- USE PLANS BEARING THE OFFICIAL STAMP OF THE DESIGN ENGINEER AND BEARING THE APPROVAL SIGNATURE OF THE SANTA FE COUNTY UTILITIES DIRECTOR OR APPROVED REPRESENTATIVE. CONSTRUCTION PERFORMED WITHOUT APPROVED PLANS WILL BE REJECTED.
- CR-2.1:
- PRIOR TO FINAL SFCU APPROVAL OF THE CONSTRUCTION PLANS A LETTER WILL BE REQUIRED FROM THE DESIGN ENGINEER INDICATING THAT THEY ARE PROVIDING THE INSPECTION AND RECORD DRAWING SERVICES FOR THE PROJECT.
- CR-2.2:
- THE CONTRACTOR, THROUGH THE PROJECT ENGINEER SHALL SUBMIT PRELIMINARY AS-BUILTS WITHIN 30 DAYS OF COMPLETION TO SFCU FOR REVIEW AND APPROVAL AND SHALL INCLUDE AS-BUILT MANHOLE RIM AND INVERT ELEVATIONS, FINAL PIPE SLOPES AND DISTANCES BETWEEN MANHOLES, AND A SUMMARY SHEET SHOWING BEARINGS AND DISTANCES WITH A SURVEY TIE TO THE NEAREST SFCU CONTROL MONUMENT. FINAL CERTIFIED AS-BUILTS AND CERTIFICATION OF COMPLIANCE STATEMENT (FCC-1-B) SHALL BE SUBMITTED TO SFCU PRIOR TO FINAL ACCEPTANCE BY SFCU.
- CR-3 SEWER HOOK-UP PERMIT:
- OBTAIN PERMITS FOR THE PROJECT BEFORE COMMENCING ANY SEWER CONSTRUCTION. CONSTRUCTION PERFORMED WITHOUT OBTAINING PERMITS SHALL BE REJECTED.
- A. CONSTRUCTION PLANS SHALL INDICATE THE CLASS OF BEDDING TO BE USED. CHANGE OF BEDDING MAY REQUIRE A CHANGE IN PIPE CLASSIFICATION OR WALL THICKNESS.
- CR-4 SUBSTITUTIONS OR CHANGES:
- ALL SUBSTITUTIONS OR CHANGES MUST BE APPROVED BY THE SANTA FE COUNTY UTILITIES DIRECTOR OR COUNTY APPROVED REPRESENTATIVE PRIOR TO CONSTRUCTION. ALL SUBSTITUTIONS OR CHANGES MUST BE SUBMITTED BY THE DESIGN ENGINEER TO THE SANTA FE COUNTY UTILITIES DIRECTOR OR APPROVED REPRESENTATIVE, WHERE APPROPRIATE, SUBMITTAL MUST INCLUDE FABRICATION DRAWINGS, WORKING DRAWINGS AND MATERIAL SPECIFICATIONS OR TEST DATA TO JUSTIFY SUBSTITUTIONS OR CHANGES. DESIGN ENGINEER SHALL AUTHORIZE ANY DRAWINGS, SUBSTITUTIONS AND CHANGES AND SUBMIT THEM TO THE SANTA FE COUNTY UTILITIES DIRECTOR FOR APPROVAL, PRIOR TO INITIATING THE CHANGE IN THE FIELD. UNAUTHORIZED SUBMITTALS WILL BE REJECTED.
- CR-5 MANUFACTURER'S CERTIFICATES:
- CERTIFICATES OF COMPLIANCE AND TEST REPORTS ARE REQUIRED FOR MATERIALS. DOCUMENTS SHALL BE SUBMITTED TO THE SANTA FE COUNTY UTILITIES DIRECTOR OR APPROVED REPRESENTATIVE AT THE TIME OF MATERIALS DELIVERY TO THE JOBSITE.
- CR-6 CONTRACTOR REQUIREMENTS:
- CONTRACTOR PERFORMING WORK ON PUBLIC SEWER LINES SHALL BE A LICENSED NEW MEXICO UTILITY CONTRACTOR.
- CONSTRUCTION MATERIALS
- CM-1 SEWER PIPE (CERTIFICATES REQUIRED)
- A. PLASTIC (PVC): REFER TO SECTION 121, NM APWA, AS MODIFIED BY SANTA FE COUNTY.
1. 4" THRU 15" (inch) DIAMETER, ASTM D 3034 OR ASTM F 798 PIPE, MINIMUM 5-45 STRENGTH, SDR-35 OR EQUAL.
2. LARGER THAN 15" (IN) DIAMETER, ASTM F 679 VOL. 08.04.
- B. HDPE PIPE PER ASTM D 2428 CLASS III WHEN APPROVED BY UTILITIES DIVISION ENGINEER.
- C. PVC RESTRAINED JOINTS: SERIES 1350 OR SERIES 1350 FOR COUPLINGS PROVIDED BY UNILANKS CORPORATION, LOCKING COUPLINGS WITH NYLON SPRIE, MARKETED AS "YELLOWMINE" AND PRODUCED BY CERTAINTED CORPORATION, OR APPROVED EQUAL.
- CL. C300 PVC REQUIRED BETWEEN MANHOLES WHEN CROSSING ARROYOS AND RIVERS, RESTRAINED JOINTS REQUIRED AT RIVER AND ARROYO CROSSINGS PER DETAIL SAS-9.
- D. MANHOLE ADAPTERS: ASBESTOS CEMENT (AC) MANHOLE ADAPTERS, OR AC/PVC ADAPTER COUPLINGS.
- E. BUILDING SERVICE STUBS: CAST IRON DWV, PVC SCH. 40 DWV.
- F. SERVICE CONNECTIONS:
1. PVC PIPE: CAST IRON BODIES TAPPING SADDLE WITH STAINLESS STEEL TENSION STRAP AND FITTINGS.
2. RDMAS OR SADDLE, GENCO, OR "PIONEER", OR APPROVED EQUAL.
- G. SOIL CLASSIFICATION: THE UNIFIED SOIL CLASSIFICATION SYSTEM PER ASTM D 2487 TABLE 701.3.5 NM APWA.
- H. ALL SEWER MAINS AND OTHER PRESSURE PIPELINES SHALL BE BURIED WITH A #10 CONTINUOUS ELECTRICAL TRACING WIRE TO ENABLE FUTURE LOCATION OF PIPE. THE TRACING WIRE SHALL BE TAPED TO THE TOP OF THE PIPE AT 10-FOOT INTERVALS TO PREVENT DISLOCATION OF THE WIRE DURING BACKFILL. LOCATE WIRES SHALL EXTEND TO THE TOP OF MANHOLES ON THE OUTSIDE AND PENETRATE UNDER THE MANHOLE FRAME INTO THE MANHOLE FOR ACCESS TO THE WIRE. THE TRACING WIRE SHALL BE SPICED USING A 2-WAY OR 3-WAY LOW VOLTAGE TAP CONNECTOR, 3/4" S&W OR EQUIVALENT. THE SPICE SHALL BE COATED FOR CORROSION PROTECTION USING A GENERAL PURPOSE TAPE SEALANT SIMILAR TO RAY-CHEM PRODUCTS, 1.5 INCH WIDE 0.012-INCH THICK, SPIRALLY WRAPPING WITH 1-INCH OVERLAPS AT CONNECTOR AND WIRE. THE TAPE SEALANT SHALL BE COVERED WITH A LAYER OF ELECTRICAL TAPE AS AN OUTER WRAP.
- CM-2 MANHOLES:
- A. CONCRETE MANHOLES: PRECAST REINFORCED CONCRETE RISERS, REDUCING CONES, AND ADJUSTMENT RINGS PER ASTM C 478 VOL. 04.05. BASES MAY BE FIELD PLACED CONCRETE OR PRECAST CONCRETE PER ASTM C 478 VOL. 04.02 (CERTIFICATES REQUIRED). CRACKED OR VISIBLY DEFECTIVE UNITS WILL BE REJECTED.
- B. PIPE PENETRATIONS: PRECAST UNITS SHALL HAVE SUITABLE SIZED OPENINGS CAST INTO BARREL AT PROPER ANGLES FOR PIPE AND MANHOLE ADAPTERS.
- C. MANHOLE STEPS: REFER TO SECTION 920.4.7 NM APWA POLYPROPYLENE ENCASED GRADE 60 STEEL, BY M.A. INC. OR APPROVED EQUAL, 14"(IN.) WIDE, 16"(IN.) MAXIMUM SPACING.
- D. FRAMES AND COVERS:
1. CASTINGS SHALL CONFORM TO SECTION 160.161, & 162, NM, APWA CLASS 308 (CERTIFICATES & SHOP DRAWINGS REQUIRED)
2. MINIMUM COVER WEIGHT: 365 POUNDS
3. MINIMUM COMBINED WEIGHT: 365 POUNDS +/- 5%
4. BEARING SURFACES: SHALL BE MATCHED FOR A FIRM NON-ROCKING SEAT BETWEEN FRAME AND COVER. MINIMUM SEATING WIDTH: 7/8"(IN.)
5. COATING: NONE
6. COVER LETTERINGS: SANTA FE COUNTY, N.M. SANITARY SEWER
7. CASTINGS: CAST MANUFACTURER AND MODEL NUMBER ON FRAME AND COVER
8. CASTINGS TOLERANCE: +/- 1/2"(IN.) PER FOOT OF OVERALL DIMENSION. OUT OF ROUND CASTINGS AND LOOSE FITTING UNITS WILL BE REJECTED IN THE FIELD.
- CM-3 SHALLOW SEWER POLYWRAP ENCASUREMENT:
- A. REQUIREMENTS:
1. WHEN THE PIPE COVER IS 36" (IN.) OR LESS, SHALLOW SEWER POLYWRAP IS AN ALTERNATE.
2. WHEN ONLY SEWER PIPE CROSSES AN ARROYO.
3. WHEN A WATER LINE PASSES BELOW OR LESS THAN 18" (IN.) ABOVE THE CASTING SEWER LINE.
4. WHEN A PARALLEL WATER LINE IS LESS THAN 21"(IN.) HORIZONTALLY AND LESS THAN 21"(IN.) ABOVE THE SEWER LINE.
5. THE SEWER LINE SHALL BE WRAPPED WITH GREEN TUBULAR POLYETHYLENE PROTECTION.
6. CONCRETE ENCASEMENTS SHALL NOT BE ALLOWED WITHOUT EXPRESSED WRITTEN AUTHORIZATION FROM SFCU DIVISION DIRECTOR ON A CASE BY CASE BASIS.
- INSTALLATION
- I-1 LAYING PIPE:
- AS PER SECTION 900, NM APWA, PIPE SHALL BE PLACED AND BEDDED IN A FROST FREE TRENCH; GASKET SHALL BE FULLY SEATED AND NOT SUPPED; PIPE SHALL BE LAID THROUGH MANHOLE LOCATIONS ON STRAIGHT AND UP TO 22 1/2 DEGREE DEFLECTIONS.
- A. IF PIPE TRENCH INSTALLATION CONFIGURATION EXCEEDS THE LIMITS OF NM APWA STANDARDS, SECTION 700, OR AS DEFINED ON THE CONSTRUCTION PLANS, THE DESIGN ENGINEER WILL SPECIFY THE NEW PIPE CLASSIFICATION OR WALL THICKNESS.
- B. TYPE I TRENCH CONFIGURATION IS NORMALLY USED WHEN TRENCH DEPTHS ARE 8'(FT) OR LESS. TYPE II TRENCH CONFIGURATION IS NORMALLY USED WHEN TRENCH DEPTHS ARE 9'(FT) AND OVER, DEPENDING ON SOIL CONDITIONS. REFER TO NM APWA STANDARDS SECTION 700.
- I-2 MANHOLE CONSTRUCTION:
- A. BASE:
1. CAST IN PLACE: ON UNDISTURBED FROST FREE SUBGRADE
2. PRECAST UNIT: ON PEA GRAVEL WITH COMPLETE EVEN BEARING
- B. PRECAST BARREL:
1. JOINTS: FILL COMPLETELY WITH NON-SHRINK GROUT AND TROWEL
2. REINFORCED COVER (PVC PERM. 800) FILL IN PENETRATION WITH NON-SHRINK GROUT.
3. CAST IN PLACE BASES: SHALL ACHIEVE A MINIMUM OF 2500 PSI COMPRESSIVE STRENGTH BEFORE SETTING PRECAST BARREL SECTIONS.
- I-3 EXCAVATION AND BACKFILL:
- AS PER SECTION 700, NM APWA; SATURATION BY FLOODING OR FILLING METHODS IS NOT PERMITTED WITHOUT A SOILS ENGINEERING REPORT RECOMMENDING THESE METHODS. MECHANICAL OR VIBRATORY COMPACTORS SHALL NOT BE USED ON THE BEDDING AND 12"(IN) OF INITIAL BACKFILL. COMPACTION SHALL BE DETERMINED PER DASHDOT 1.180.
- FIELD QUALITY CONTROL
- FQC-1 TESTING AND INSPECTION:
- A. SUPERVISION: CONDUCTED BY DESIGN ENGINEER.
- B. CERTIFICATION: DESIGN ENGINEER SHALL CERTIFY THAT THE PROJECT HAS BEEN COMPLETED IN ACCORDANCE TO PLANS & SPECIFICATIONS AND SHALL SUBMIT A CERTIFICATION OF COMPLIANCE STATEMENT WITH STAMP AND SIGNATURE, INCLUDED THE SUBMISSION OF AS-BUILT RECORD DRAWINGS ALSO SIGNED AND SEALED.
- C. EQUIPMENT AND ASSISTANCE: PROVIDED BY CONTRACTOR.
- FQC-2 LINE AND GRADE: ALLOWABLE TOLERANCE BETWEEN STRUCTURES FROM DESIGN:
- A. LINE: 0.20 FOOT
- B. GRADE: 0.02 FOOT; REFER TO SECTION 901.7 NM APWA.
- FQC-3 LEAKAGE TEST:
- AIR TEST REQUIRED; REFER TO SECTION 901.7 NM APWA.
- FQC-4 TELEVISION INSPECTION:
- CONTRACTOR SHALL PROVIDE A CERTIFIED CCTV SEWERLINE INSPECTION AND RECORD TAPES AT HIS OWN EXPENSE.
- FQC-5 ALL CONNECTIONS TO EXISTING MANHOLES INCLUDES REHABILITATING THE TIE IN MANHOLE TO MEET THESE STANDARD CONSTRUCTION DETAILS.
- STORM SEWER COVER
- SS-1 TESTING AND INSPECTION:
- A. SUPERVISION: CONDUCTED BY DESIGN ENGINEER.
- B. CERTIFICATION: DESIGN ENGINEER SHALL CERTIFY THAT THE PROJECT HAS BEEN COMPLETED IN ACCORDANCE TO PLANS & SPECIFICATIONS AND SHALL SUBMIT A CERTIFICATION OF COMPLIANCE STATEMENT WITH STAMP AND SIGNATURE, INCLUDED THE SUBMISSION OF AS-BUILT RECORD DRAWINGS ALSO SIGNED AND SEALED.
- NOTE: REVISIONS TO THIS SHEET SHALL BE MADE UNDER THE AUTHORITY OF SANTA FE COUNTY UTILITIES ONLY.

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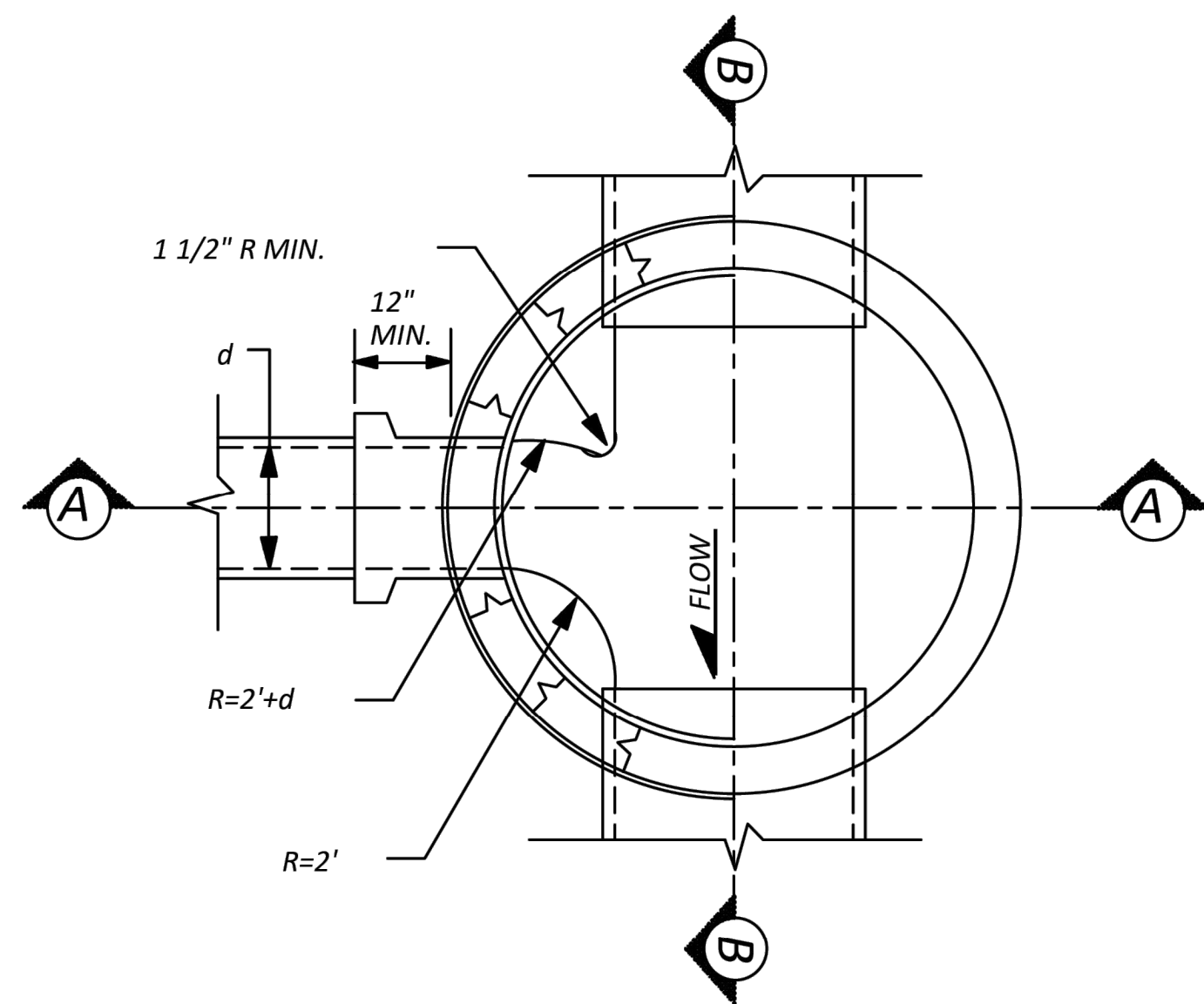
REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

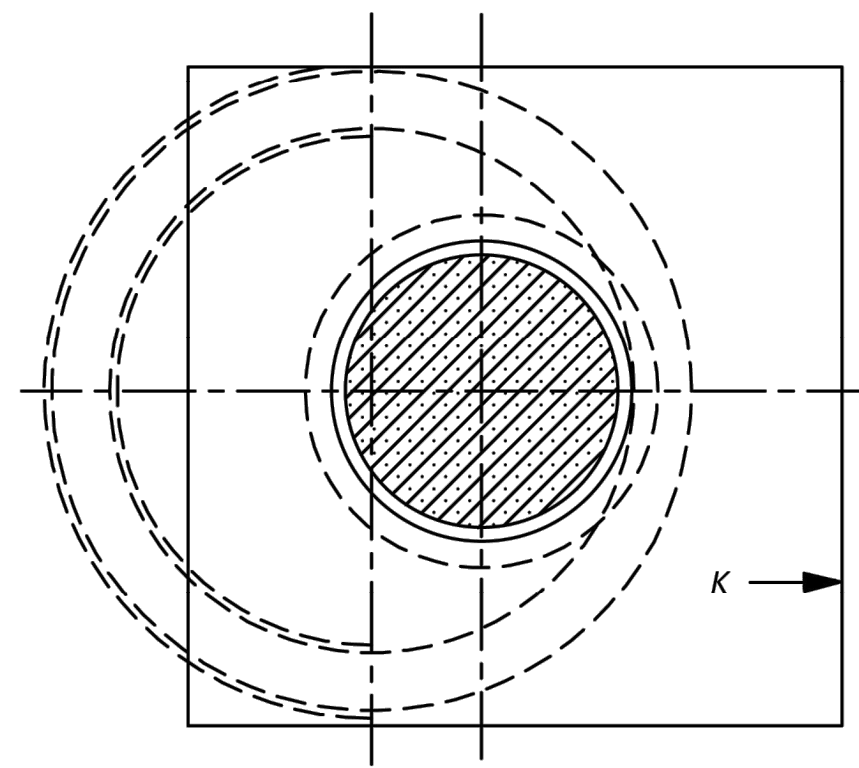
PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

SANTA FE COUNTY MANHOLES I

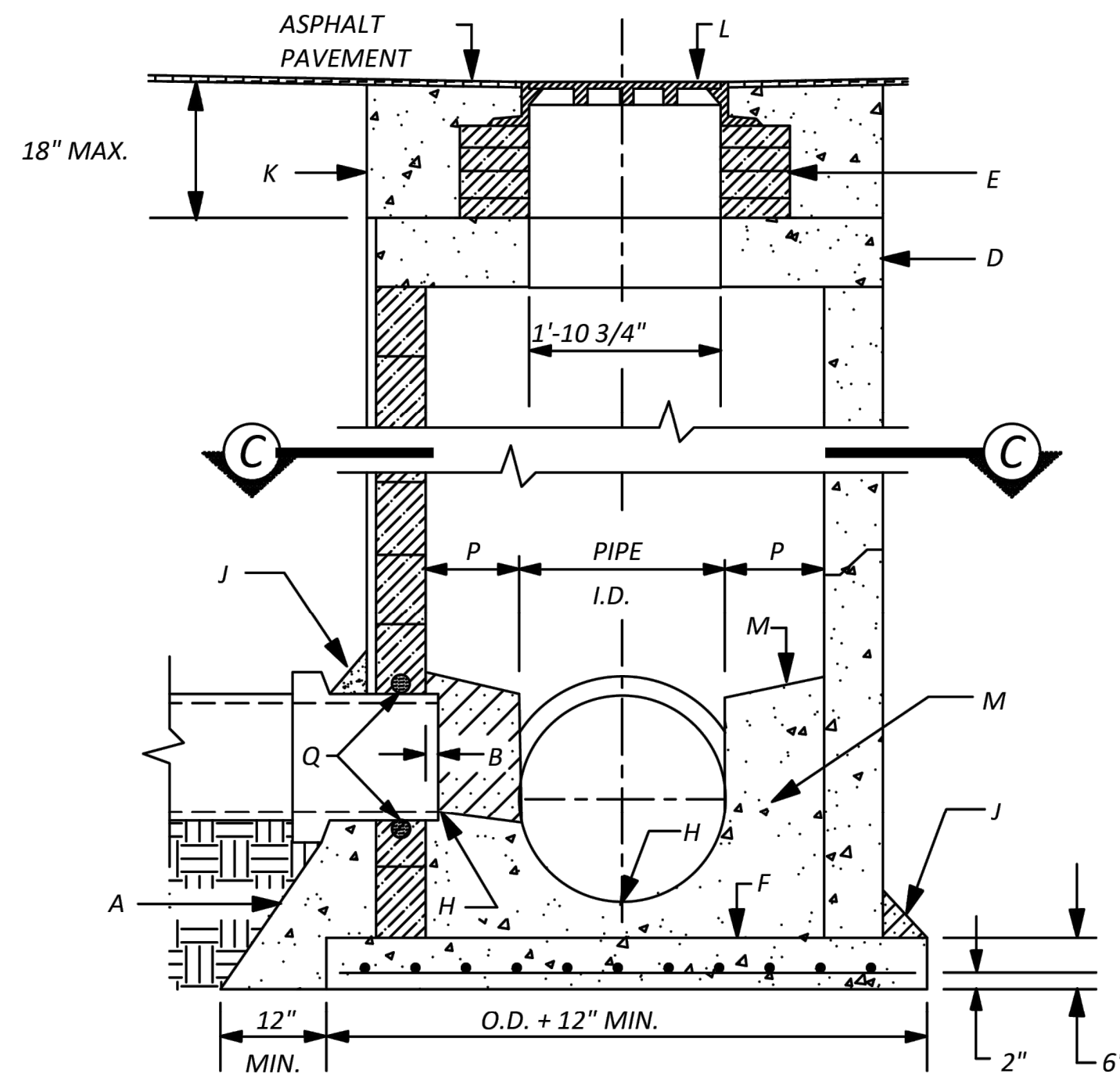
APPROVED BY: REVIEWED BY: S. MORROW
DATE: SEPTEMBER 2025 SHEET :
DRAWN BY: JIG W-508



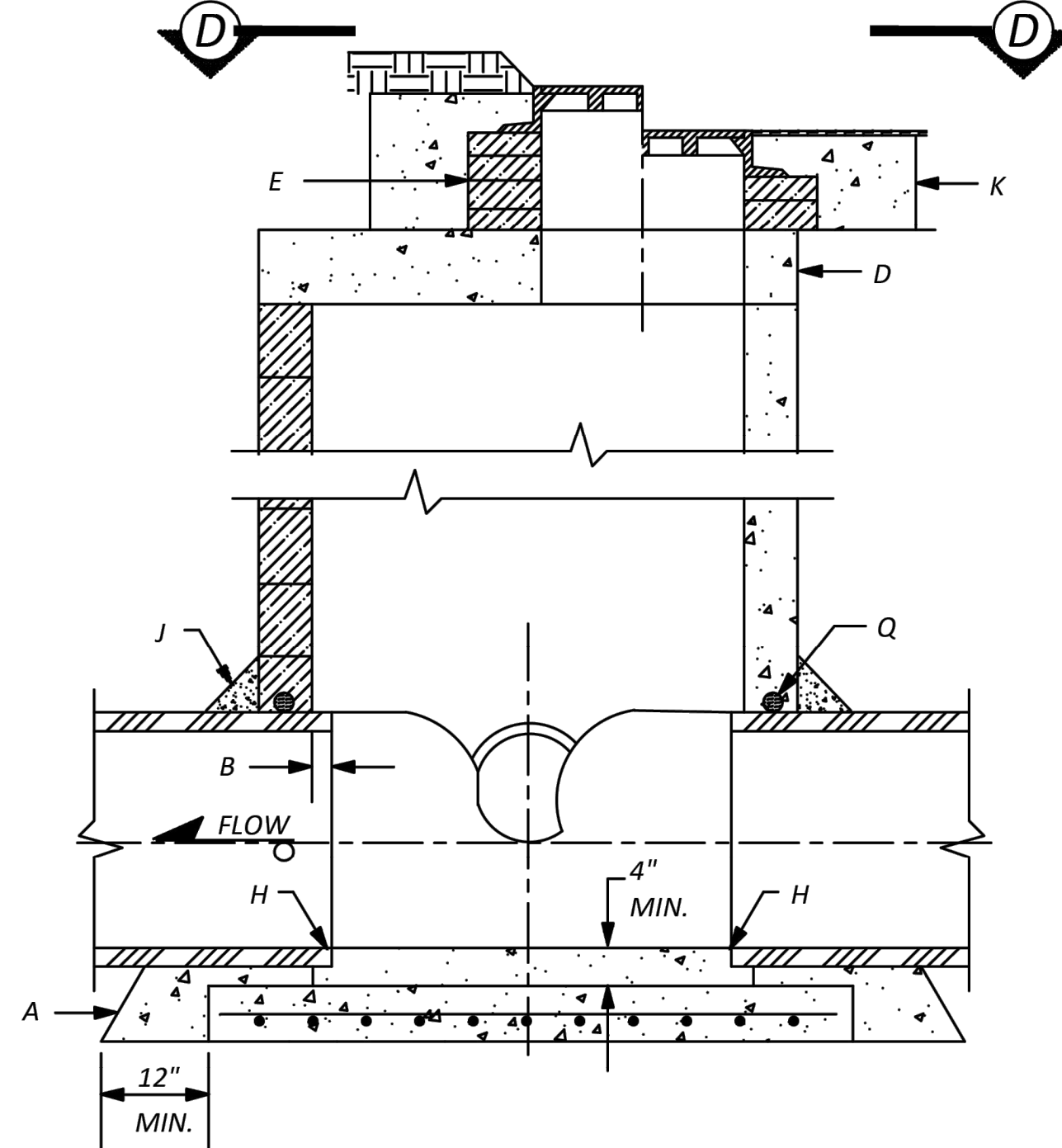
**PLAN VIEW
@ X-SECTION**



**PLAN VIEW
@ X-SECTION**



**PROFILE VIEW
@ X-SECTION**



**PROFILE VIEW
@ X-SECTION**

NOT TO SCALE

MANHOLE TYPE "C" DETAIL / DWG. # SAS-14

GENERAL NOTES

1. USE APPROVED MASTIC JOINT MATERIAL FOR ALL JOINTS.
2. CONTRACTOR HAS OPTION TO CONSTRUCT TYPE "C" M.H. IN LIEU OF TYPE "E" M.H. FOR DEPTHS OF 6' OR MORE.
3. DESIGN APPLIES TO 4', 6' & 8' MANHOLES.
4. M.H. GREATER THAN 18' IN DEPTH SHALL ONLY BE CONSTRUCTED OF PRECAST CONCRETE SECTION.
5. USE NON-SHRINK GROUT FOR FILLETS AND PENETRATIONS.
6. POSITION M.H. OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.

CONSTRUCTION NOTES

- A. CONCRETE PIPE SUPPORT SHALL EXTEND OUTSIDE OF M.H. TO BELL OF FIRST JOINT & SHALL CRADLE PIPE TO SPRING LINE. NOT APPLICABLE FLEXIBLE PIPE.
- B. PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRING LINE OF PIPE.
- D. PRECAST CONCRETE COVER
- E. USE MAX. 4 COURSES GR. MS BRICK ON UNPAVED STREET FOR FUTURE ADJ. OF M.H. FRAME TO PAVEMENT GRADE. PLASTER INSIDE WITH 1/2" MORTAR.
- F. CONCRETE BASE TO BE POURED IN PLACE USING NO. 4 BARS AT 6" O.C. EA. WAY FOR M.H. DEPTH OF 16' OR GREATER. NO 4 BARS AT 12" O.C. EA. WAY FOR M.H. LESS THAN 16' IN DEPTH.
- H. INV. ELEV. OF STUB OR LATERAL AS SHOWN ON PLANS.
- J. 6" GROUT FILLET ON UPPER HALF OF PIPE AND AROUND BASE.
- K. USE A 5'x 5' CONCRETE PAD IN ALL AREAS SLOPE FOR GRADER USE UNPAVED AREAS.
- L. FRAME AND COVER, SEE DWG. # SAS-4
- M. CONCRETE FILL, 3000 PSI
- N. SLOPE 1" PER FT. FROM PIPE CROWN
- P. SHELF TO BE 9" WIDE MIN.
- Q. APPROVED WATERSTOP TO BE COMPATIBLE WITH TYPE OF PIPE.

MOLZENCORBIN

2701 Miles Road SE
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NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE
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SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

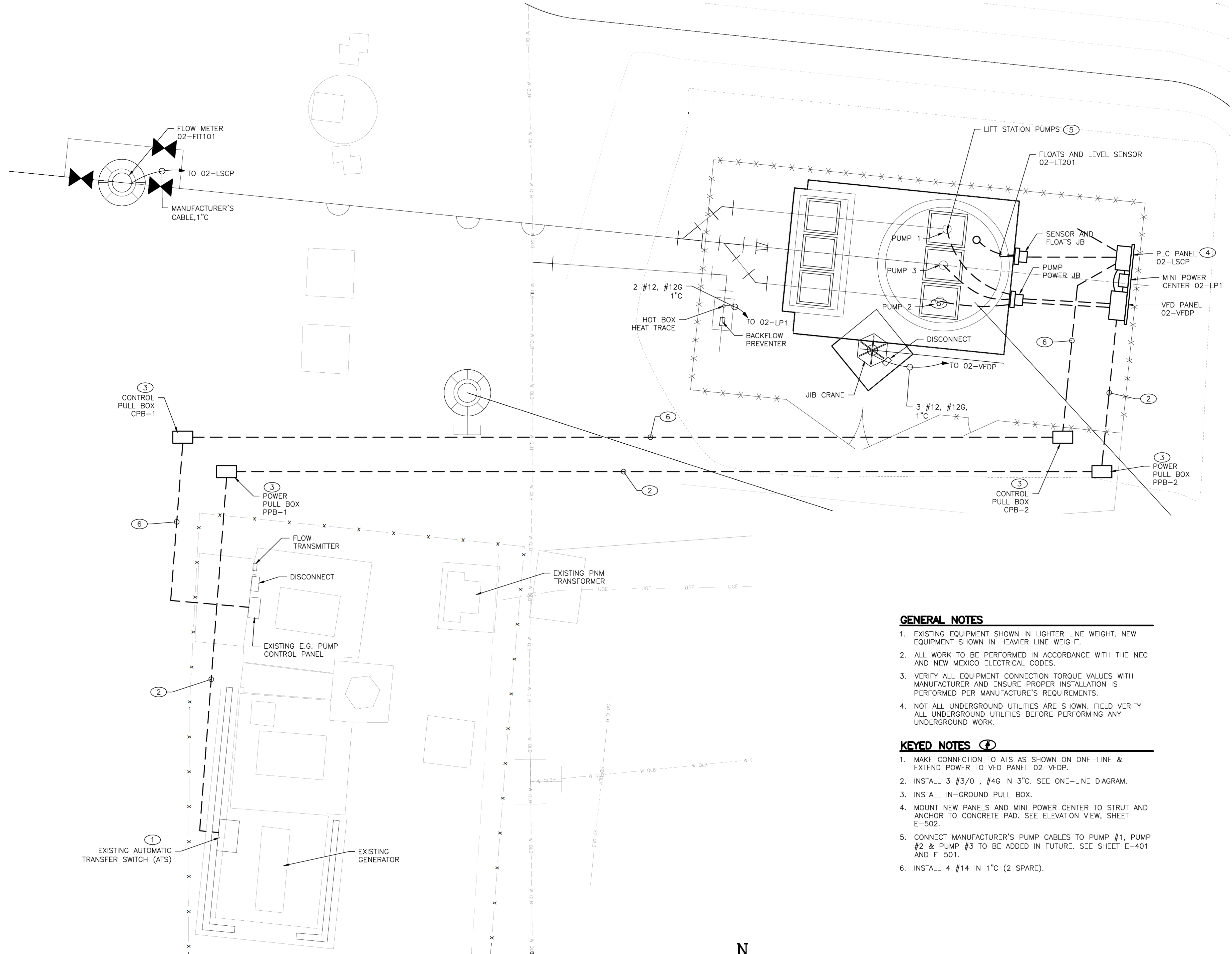
SANTA FE COUNTY MANHOLES III

APPROVED BY: REVIEWED BY: S. MORROW
DATE: SEPTEMBER 2025 SHEET:
DRAWN BY: JIG W-510

MOLZENCORBIN

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GENERAL NOTES

- EXISTING EQUIPMENT SHOWN IN LIGHTER LINE WEIGHT. NEW EQUIPMENT SHOWN IN HEAVIER LINE WEIGHT.
- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE NEC AND NEW MEXICO ELECTRICAL CODES.
- VERIFY ALL EQUIPMENT CONNECTION TORQUE VALUES WITH MANUFACTURER AND ENSURE PROPER INSTALLATION IS PERFORMED PER MANUFACTURE'S REQUIREMENTS.
- NOT ALL UNDERGROUND UTILITIES ARE SHOWN. FIELD VERIFY ALL UNDERGROUND UTILITIES BEFORE PERFORMING ANY UNDERGROUND WORK.

KEYED NOTES

- MAKE CONNECTION TO ATS AS SHOWN ON ONE-LINE & EXTEND POWER TO VFD PANEL 02-VFDP.
- INSTALL 3 #3/0 , #4G IN 3\"C. SEE ONE-LINE DIAGRAM.
- INSTALL IN-GROUND PULL BOX.
- MOUNT NEW PANELS AND MINI POWER CENTER TO STRUT AND ANCHOR TO CONCRETE PAD. SEE ELEVATION VIEW, SHEET E-502.
- CONNECT MANUFACTURER'S PUMP CABLES TO PUMP #1, PUMP #2 & PUMP #3 TO BE ADDED IN FUTURE. SEE SHEET E-401 AND E-501.
- INSTALL 4 #14 IN 1\"C (2 SPARE).

ROBERT A. HANNA
NEW MEXICO
23949
PROFESSIONAL ENGINEER
9-18-2025

REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

LIFT STATION ELECTRICAL SITE PLAN

APPROVED BY: REVIEWED BY: S. MORROW
DATE: JULY 2025 SHEET :
DRAWN BY: AS-RH E-101

MOLZENCORBIN

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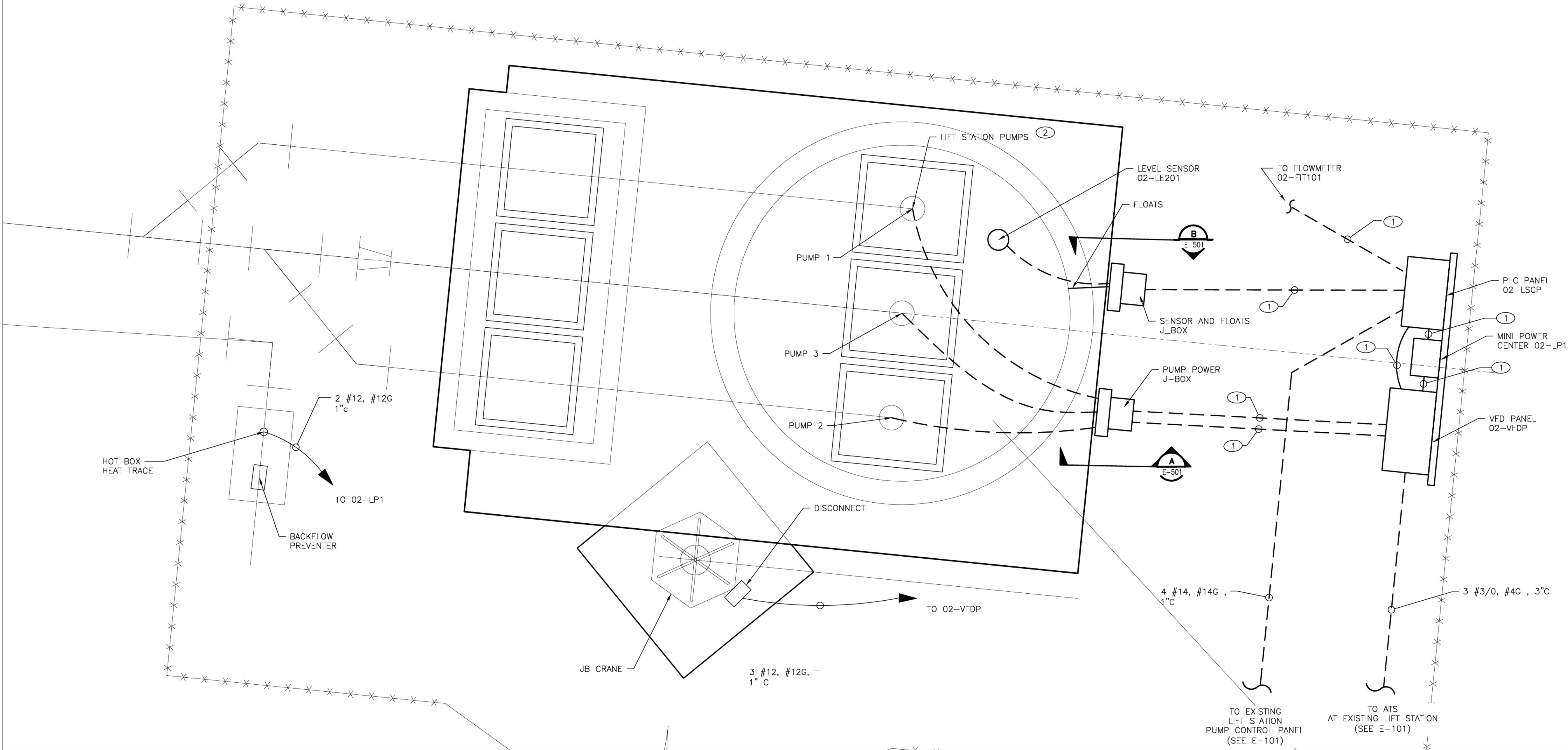
REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

LIFT STATION ELECTRICAL SITE PLAN

APPROVED BY: REVIEWED BY: S. MORROW
DATE: JULY 2025 SHEET:
DRAWN BY: AS-RH E-401



LIFT STATION ENARGED ELECTRICAL PLAN VIEW
SCALE: 6"=1'-0"

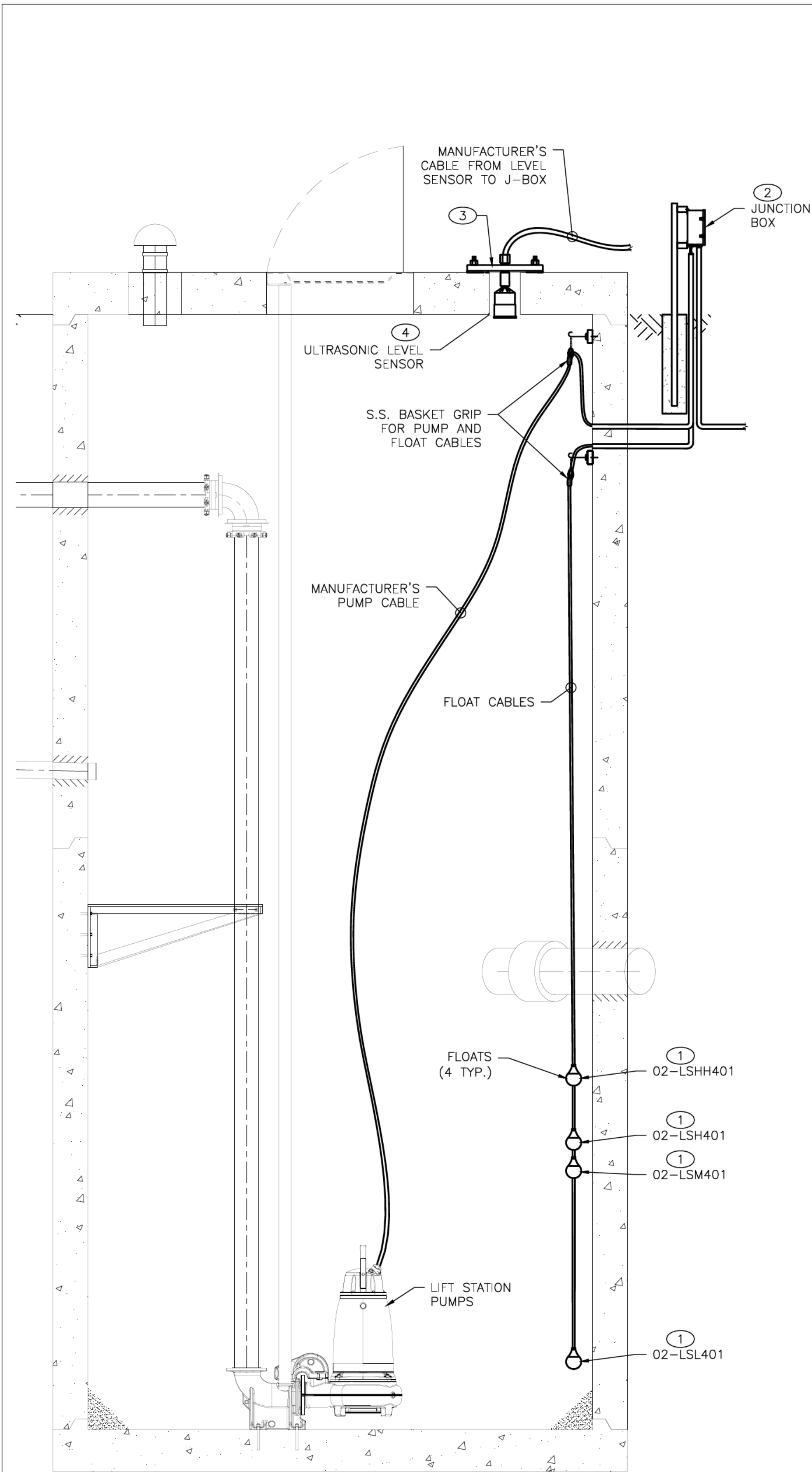


GENERAL NOTES

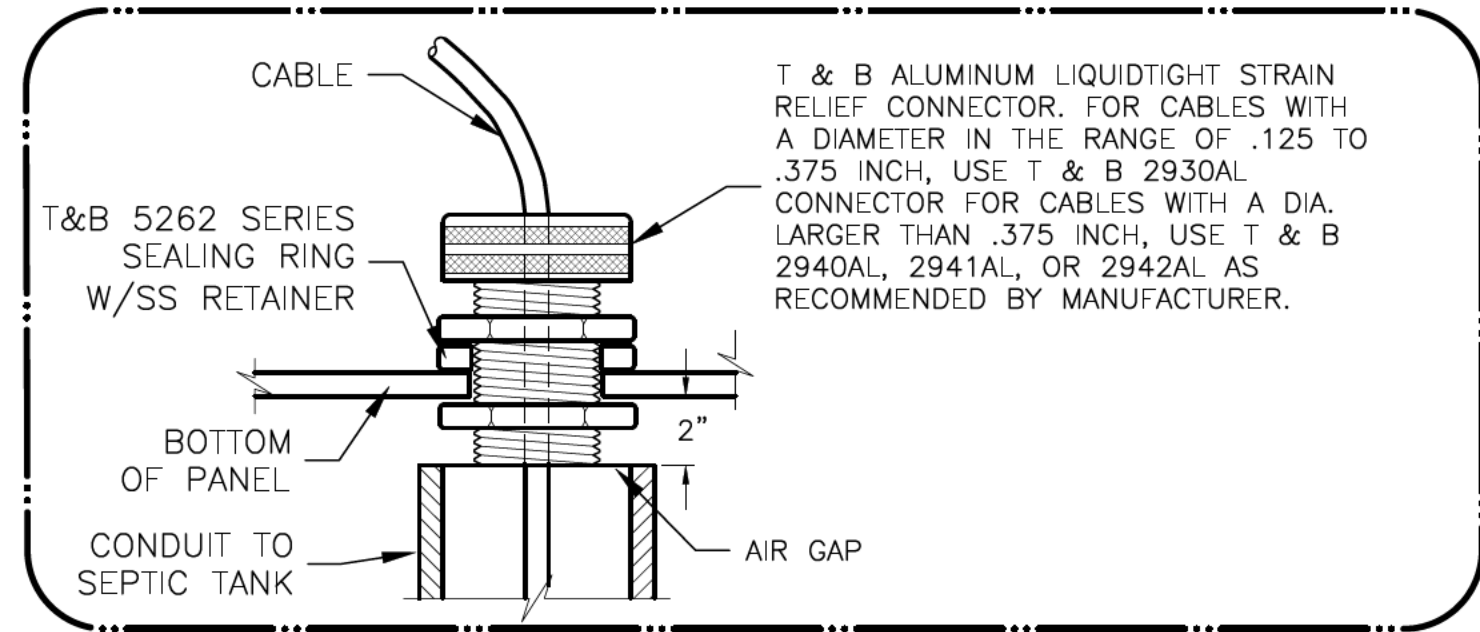
- EXISTING EQUIPMENT SHOWN IN LIGHTER LINE WEIGHT. NEW EQUIPMENT SHOWN IN HEAVIER LINE WEIGHT.
- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE NEC AND NEW MEXICO ELECTRICAL CODES.
- VERIFY ALL EQUIPMENT CONNECTION TORQUE VALUES WITH MANUFACTURER AND ENSURE PROPER INSTALLATION IS PERFORMED PER MANUFACTURE'S REQUIREMENTS.
- NOT ALL UNDERGROUND UTILITIES ARE SHOWN. FIELD VERIFY ALL UNDERGROUND UTILITIES BEFORE PERFORMING ANY UNDERGROUND WORK.

KEYED NOTES

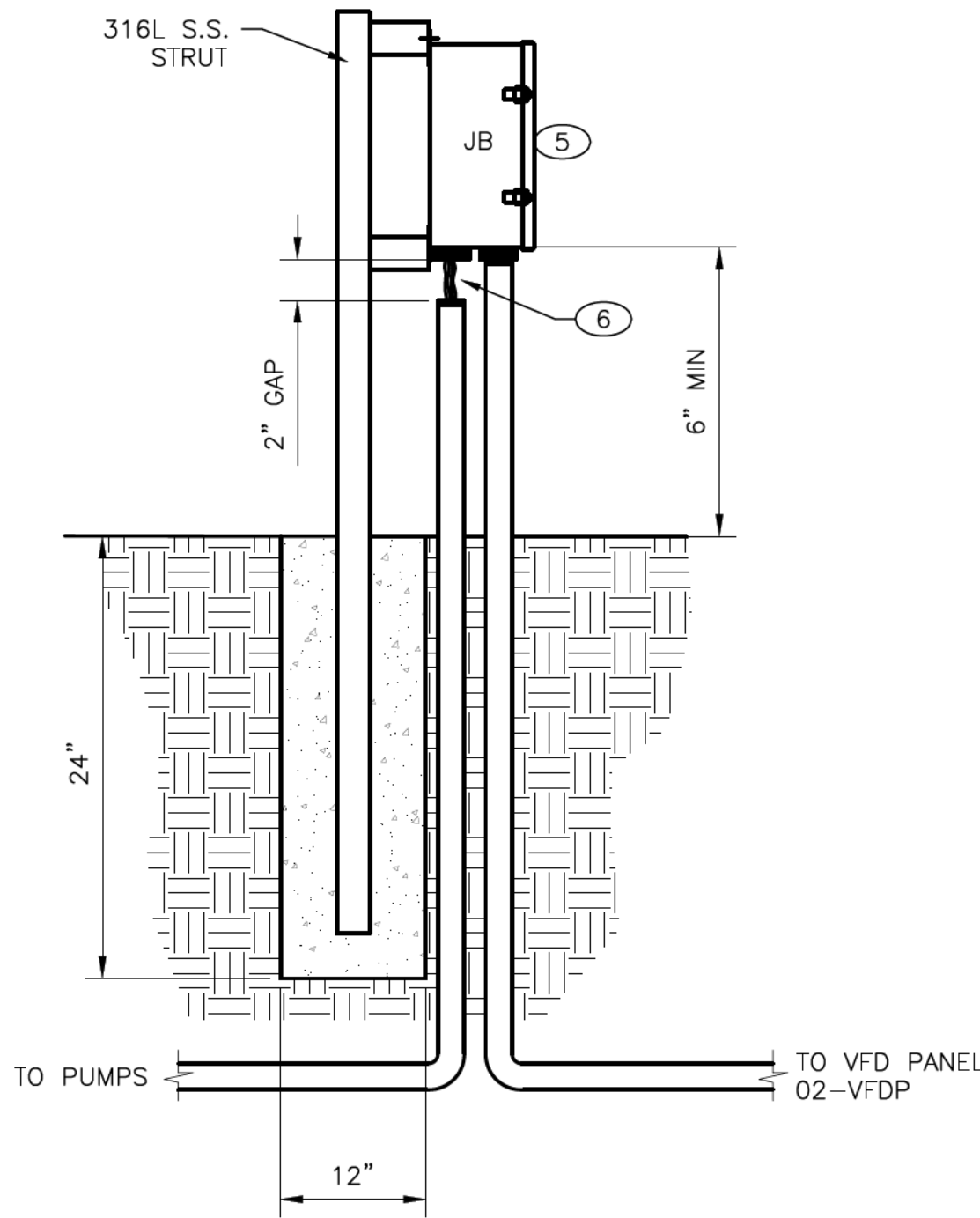
- FOR DETAILS SEE SHEET E-502.
- CONNECT MANUFACTURER'S PUMP CABLES TO PUMPS #1 & #2. PUMP #3 TO BE ADDED IN FUTURE. SEE SHEET E-102 AND E-502.



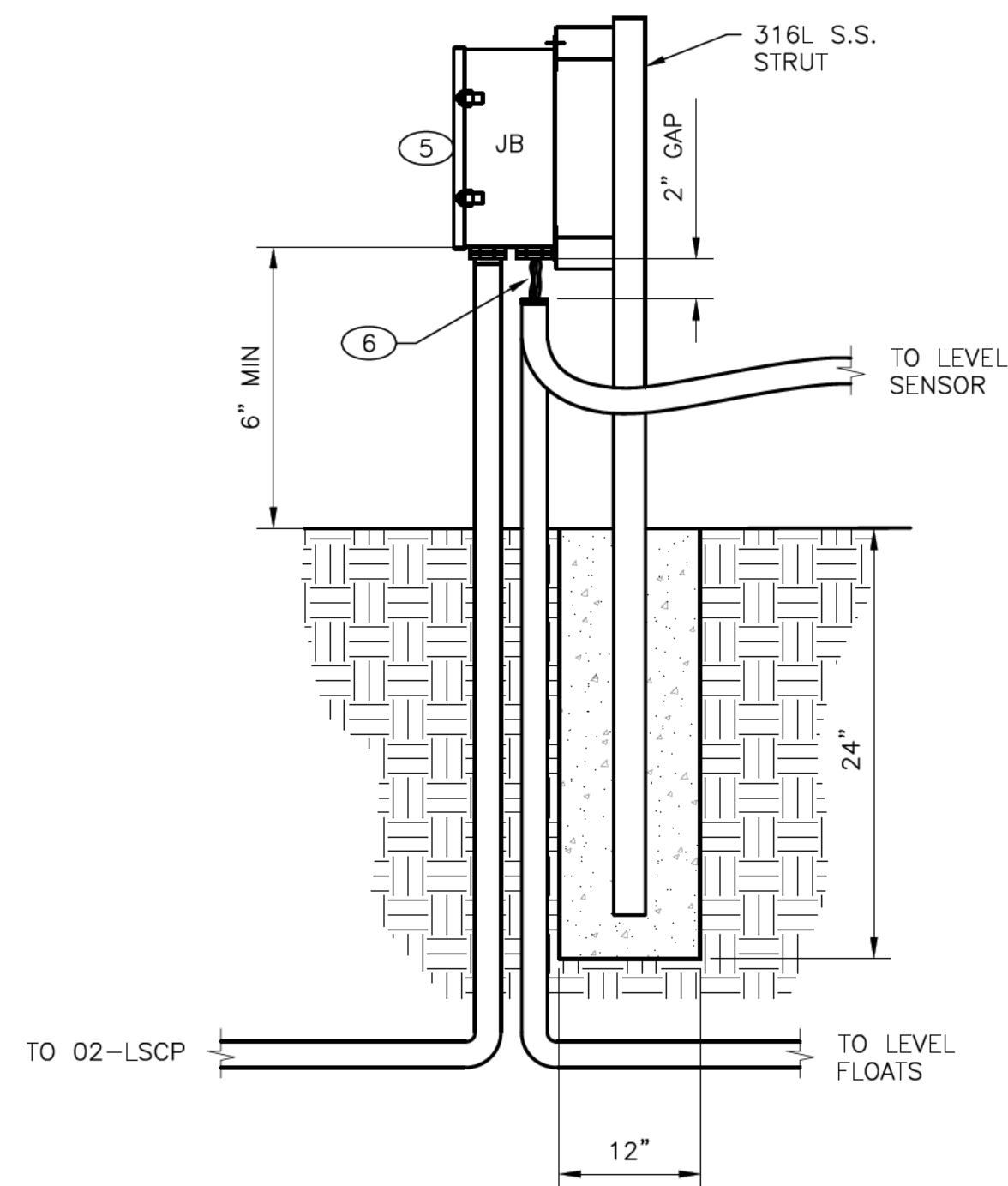
LIFT STATION ELEVATION DETAIL
SCALE: NONE



CABLE ENTRY CONNECTION DETAIL
SCALE: NONE



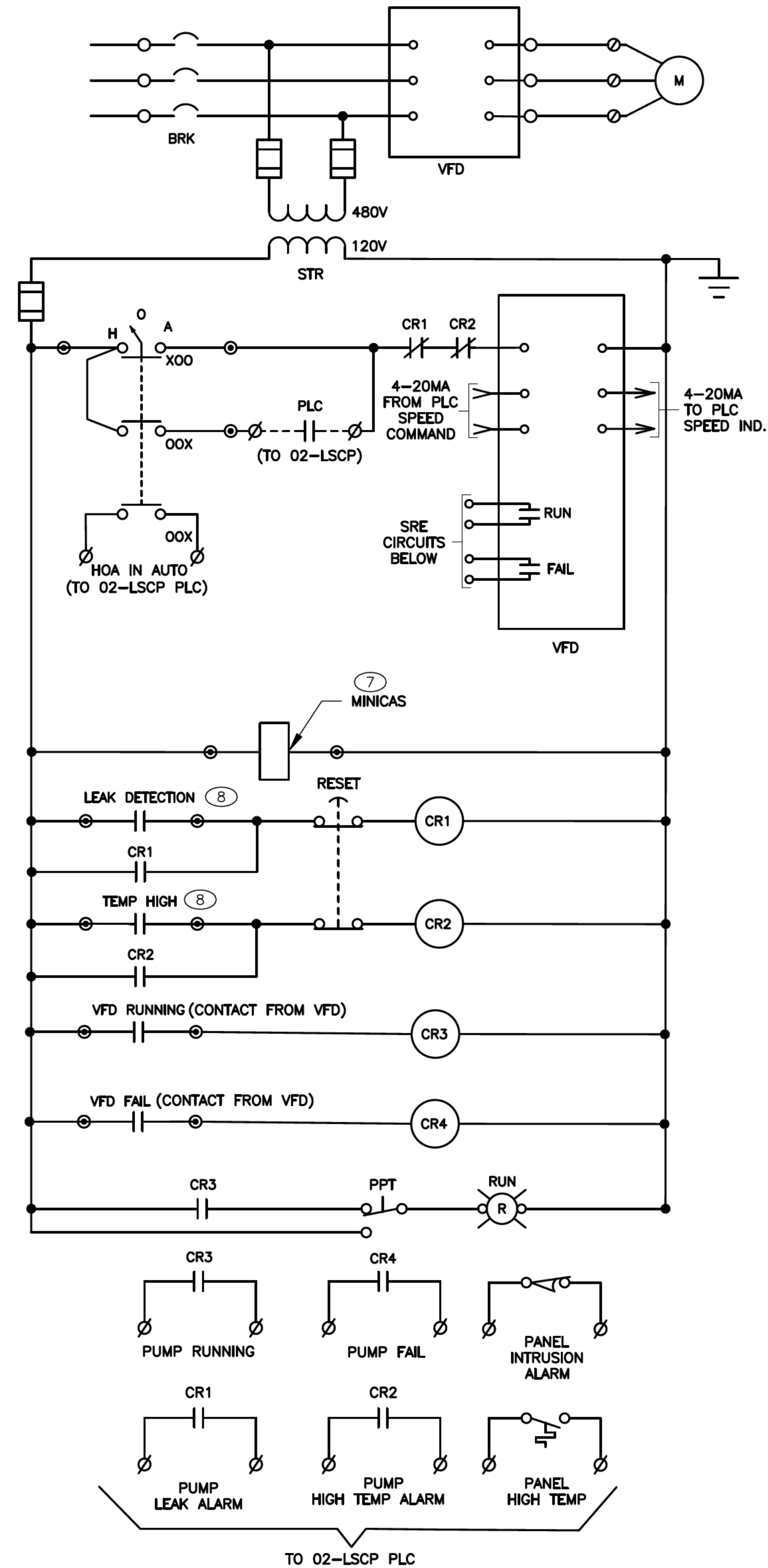
WET WELL PUMP POWER JUNCTION BOX DETAIL
SCALE: NONE



WET WELL LEVEL SENSOR AND FLOATS JUNCTION BOX DETAIL
SCALE: NONE

KEYED NOTES

1. FOR FLOAT ELEVATIONS SEE SHEET W-106.
2. JUNCTION BOX SHOWN FOR DRAFTING PURPOSES. SEE SHEET E-401 FOR PUMP POWER AND LEVEL AND FLOAT SENSOR J-BOX LOCATIONS.
3. CORE DRILL 5" DIA. THRU CONCRETE COVER AND MOUNT SENSOR PER MANUFACTURERS RECOMMENDATIONS.
4. ENSURE LEVEL SENSOR IS MOUNTED IN LOCATION WHERE ENTIRE WET WELL LEVEL CAN BE MEASURED WITHOUT OBSTRUCTIONS.
5. CONTRACTOR TO FURNISH AND INSTALL 316L S.S. 6"x6" JUNCTION BOX ON STRUT 6" AFG.
6. FURNISH CABLE ENTRY CONNECTOR. SEE DETAIL, THIS SHEET.
7. MOUNT FLYGT MINICAS UNIT TO DINRAIL ON INTERIOR OF 02-VFDP.
8. CONTACTS FOR LEAK DETECTION AND HIGH TEMP ARE LOCATED IN MINICAS DEVICE.



CONTROL PANEL SCHEMATIC (TYP. FOR 2 PUMPS)
SCALE: NONE

MOLZENCORBIN

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R. A. Hanks
ROBERT A. HANKS
NEW MEXICO
23949
PROFESSIONAL ENGINEER
9-18-2025

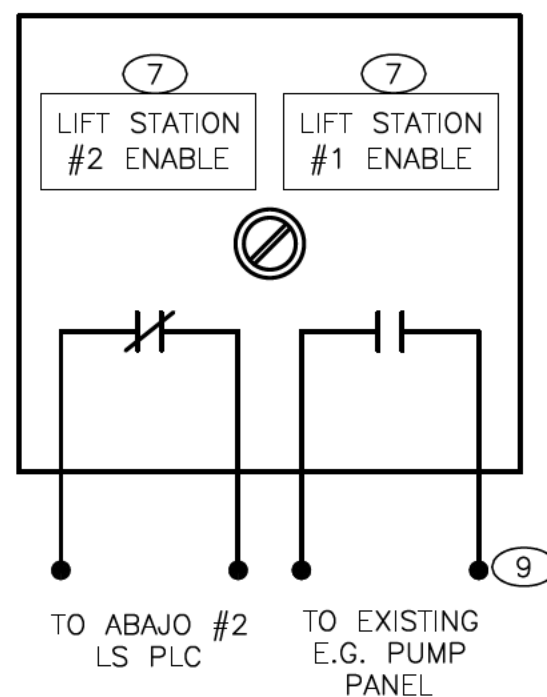
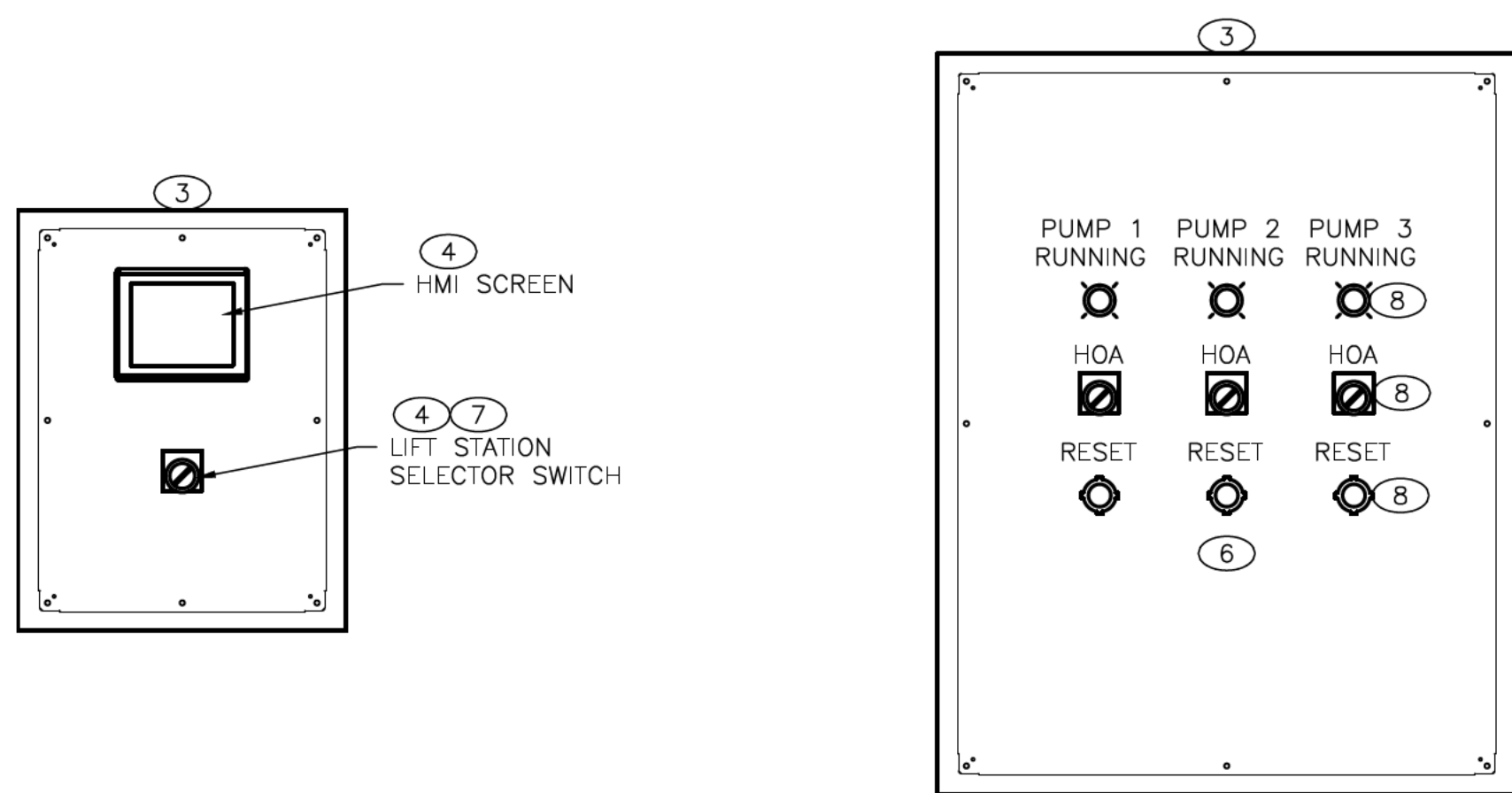
REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

LIFT STATION ELECTRICAL DETAILS

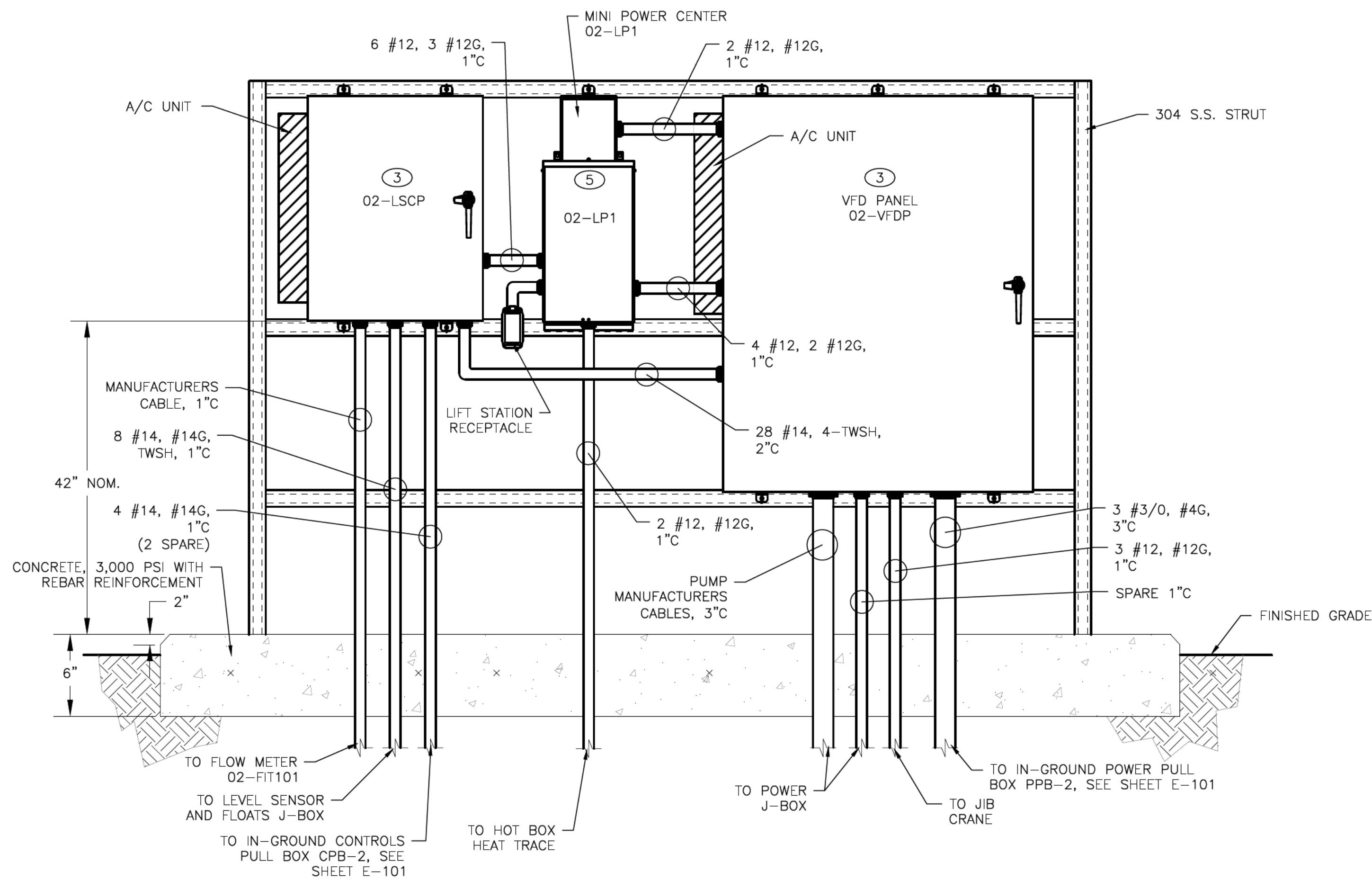
APPROVED BY: REVIEWED BY: S. MORROW
DATE: JULY 2025 SHEET :
DRAWN BY: AS-RH E-501



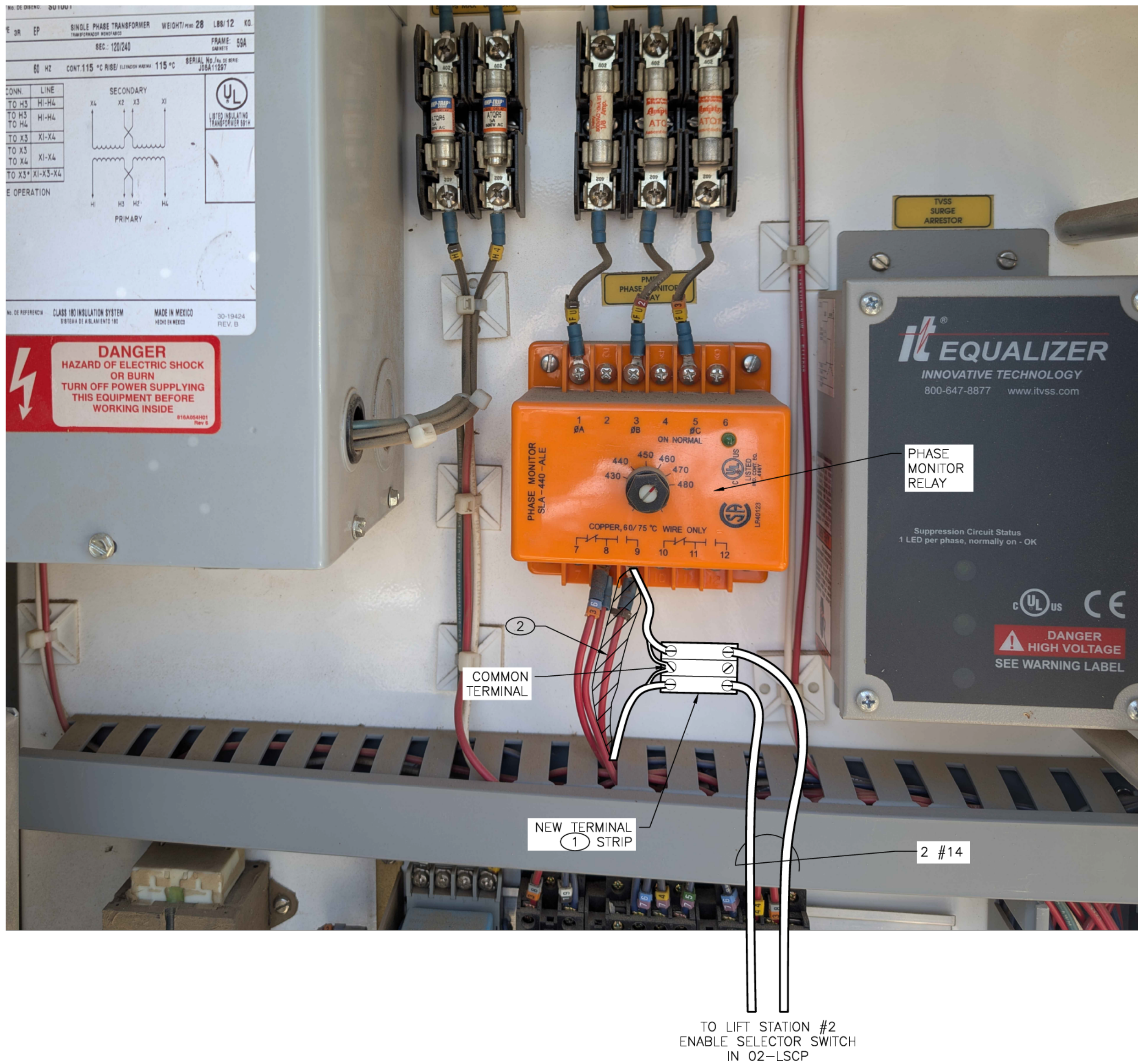
SELECTOR SWITCH WIRING DIAGRAM
SCALE: NONE

CONTROL PANEL 02-LSCP (INNER DOOR)
SCALE: NONE

VFD PANEL 02-VFDP (INNER DOOR)
SCALE: NONE



LIFT STATION PANELS ELEVATION VIEW
SCALE: NONE



EXISTING E.G. PUMP PANEL MODIFICATIONS
SCALE: NONE

KEYED NOTES

1. MOUNT NEW TERMINAL STRIP TO INTERIOR OF EXISTING E.G. PUMP PANEL.
2. DISCONNECT EXISTING CABLE AND UTILIZE FOR CONNECTIONS TO TERMINAL STRIP AS SHOWN. CUT AND STRIP CABLE AS NECESSARY TO MAKE CONNECTIONS.
3. CONTROL PANEL AND VFD PANEL SHALL BE NEMA 4X, DOOR-IN-DOOR DESIGNS TO MOUNT HMI AND DEVICES. PROVIDE OUTER DOOR WITH 3-POINT LOCKABLE LATCH. SHOWN FOR GRAPHICAL PURPOSES. ACTUAL SIZES AND PANEL CONFIGURATIONS DETERMINED BY SYSTEM INTEGRATOR.
4. MOUNT HMI SCREEN AND SELECTOR SWITCH ON INNER DOOR OF CONTROL PANEL.
5. MINI POWER CENTER TO HAVE 10KVA TRANSFORMER AND 12 CKT LIGHTING PANEL.
6. MOUNT RUNNING LIGHT, HOA SWITCH, AND RESET BUTTONS ON INNER DOOR OF VFD PANEL.
7. PROVIDE LABELING FOR SELECTOR SWITCH AS FOLLOWS:
7.a. RIGHT SELECTION: "LIFT STATION #1 ENABLE"
7.b. LEFT SELECTION: "LIFT STATION #2 ENABLE"
8. FURNISH AND INSTALL PANEL HARDWARE FOR FUTURE PUMP #3 BUT DO NOT MAKE CONNECTIONS UNTIL PUMP #3 IS INSTALLED.
9. WIRE CONTACT IN SERIES WITH PHASE MONITOR RELAY LOCATED IN EXISTING E.G. PUMP PANEL. SEE PANEL MODIFICATIONS DETAIL, THIS SHEET.

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R. J. Hank
ROBERT A. HANKS
NEW MEXICO
PROFESSIONAL ENGINEER
23949
9-18-2025

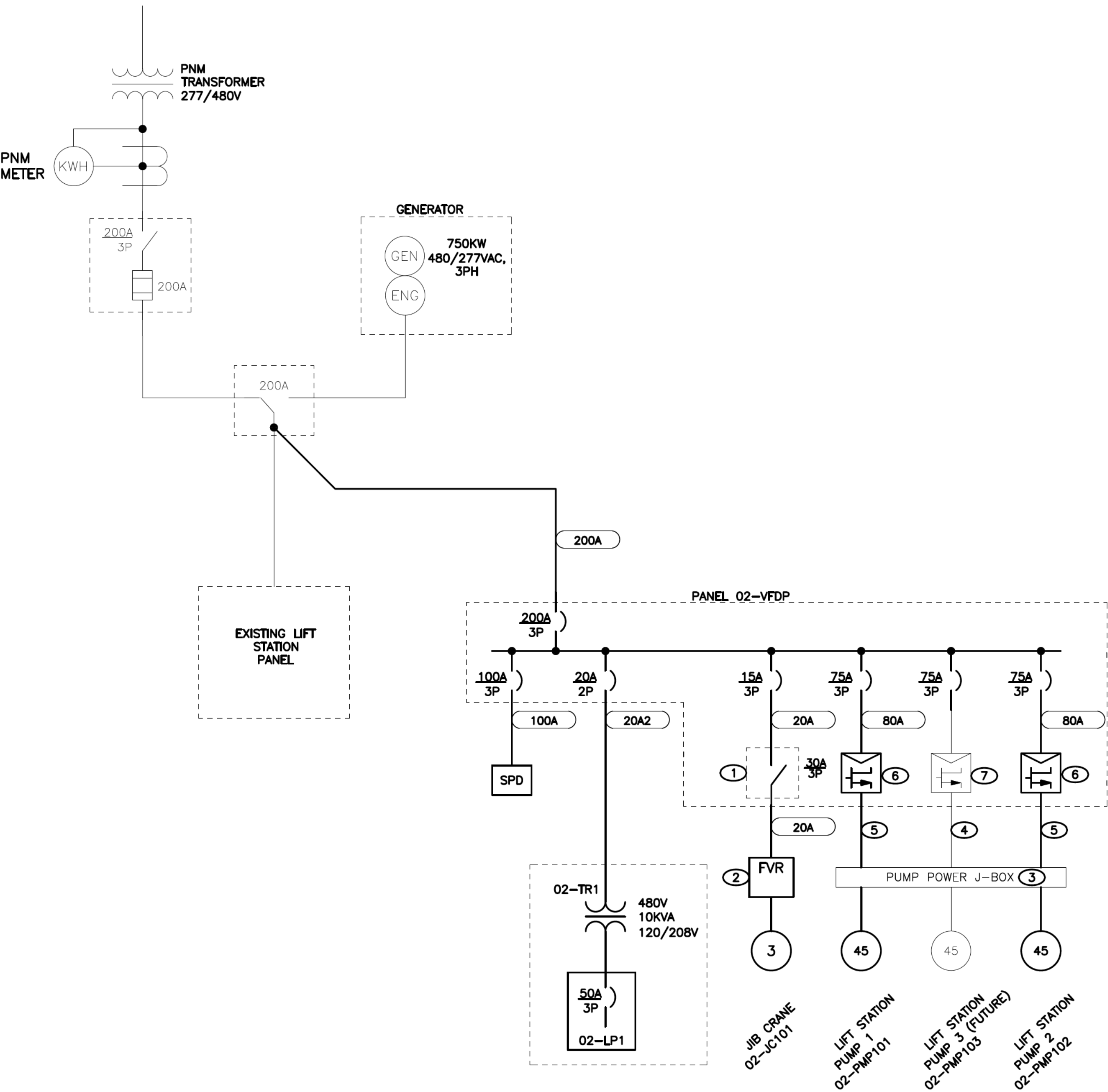
REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

LIFT STATION ELECTRICAL DETAILS

APPROVED BY: REVIEWED BY: S. MORROW
DATE: JULY 2025 SHEET :
DRAWN BY: AS-RH E-502



ONE LINE DIAGRAM
SCALE: NONE

POWER CONDUIT SCHEDULE	
NAME	COPPER
20AS	3/4"C, #12H, #12N, #12G
20A2	3/4"C, 2 - #12H, #12G
20A	3/4"C, 3 - #12, #12G
30AS	3/4"C, #10H, #10N, #10G
30A	3/4"C, 3 - #10, #10G
50A	1"C, 3 - #8, #8G
60A	1"C, 3 - #6, #8G
80A	1 1/2"C, 3 - #4, #8G
80AS	1 1/2"C, 2 - #4, #8G
100A	1 1/2"C, 3 - #2, #6G
125A	2"C, 3 - #1, #6G
150A	2"C, 3 - #1/0, #6G
175A	2"C, 3 - #2/0, #4G
200A	2 1/2"C, 3 - #3/0, #4G

02-LP01				LIFT STATION PANEL			
CKT. NO.	TRIP/ POLES	LOAD SERVED	PHASE		LOAD SERVED	TRIP/ POLES	CKT. NO.
1	15/1	PLC PANEL 02-LSCP	8	A	5	15/1	2
3	15/1	VFD PANEL 02-VFDP A/C UNIT	5	B	5	15/1	4
5	15/1	HOT BOX HEAT TRACE	5	A	5	15/1	6
7	15/1	VFD PANEL HEATER	5	B		15/1	8
9	15/1	SPARE		A			10
11	15/1	SPARE		B		20/2	12
LINE-NT VOLTS 120			Totals:				
LINE-LINE VOLTS 240			Phase A =		23	Amps	
1 PHASE 3 WIRE			Phase B =		15	Amps	
			Times				
POLES 12			1.25 =		29	Amps	
BUS AMPS 100A					6	kVA	
MCB AMPS 50A							
WSTND & CB AIC 22kA							
AVAIL FAULT kAIC							
			ENCLOSURE: NEMA 3R				

GENERAL NOTES

- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE NEC AND NEW MEXICO ELECTRICAL CODES.
- FURNISH ALL EQUIPMENT FOR INSTALLATION TO ENSURE COMPLETE AND OPERATIONAL SYSTEM.
- LIGHT PEN WEIGHTS INDICATE EXISING EQUIPMENT.

KEYED NOTES

- FURNISH AND INSTALL DISCONNECT AT CRANE.
- CONNECT CONDUCTORS TO STARTER PANEL FURNISHED WITH CRANE EQUIPMENT.
- INCLUDE TERMINALS IN J-BOX FOR FUTURE LIFT PUMP 02-PMP103.
- RUN 1" CONDUIT ONLY FROM 02-VFDP TO J-BOX. CONDUCTORS TO BE INSTALLED IN FUTURE.
- COMBINE PUMP 1 AND 2 MANUFACTURER'S CABLES INTO ONE 3" CONDUIT.
- VFD SHALL BE 60HP AND COMPLY WITH SPECIFICATION 26 29 23 - VARIABLE FREQUENCY DRIVE.
- LEAVE ROOM IN PANEL FOR FUTURE VFD.

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ROBERT A. HANKS
NEW MEXICO
23949
PROFESSIONAL ENGINEER
9-18-2025

REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

LIFT STATION ELECTRICAL ONE LINE
DIAGRAM

APPROVED BY: REVIEWED BY: S. MORROW
DATE: JULY 2025 SHEET :
DRAWN BY:AS-RH E-601

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R. A. Hanks

 9-18-2025

ABAJO LIFT STATION I/O - 02-LSCP

Allen-Bradley CompactLogix PLC (5069-L330ER)

AREA	TAG NUMBER	INSTRUMENT OR DEVICE		DESIGNATION	FROM	TYPE OF WIRE	TO	TYPE	RIO MODULE CONNECTION
##	02	02-HS201	Abajo LS#2 Lift Pump #1	Abajo LS#2 Lift Pump #1 HOA in AUTO	Abajo LS#2 Lift Pump #1 HOA	2#14, #14G	TB#1 D10A/B	DI	DI Module #1, PT 0 (DC)
##	02	02-YS201	Abajo LS#2 Lift Pump #1	Abajo LS#2 Lift Pump #1 RUNNING	Abajo LS#2 Lift Pump #1 VFD Circuit	2#14, #14G	TB#1 D11A/B	DI	DI Module #1, PT 1 (DC)
##	02	02-XS201	Abajo LS#2 Lift Pump #1	Abajo LS#2 Lift Pump #1 VFD FAIL	Abajo LS#2 Lift Pump #1 VFD Circuit	2#14, #14G	TB#1 D12A/B	DI	DI Module #1, PT 2 (DC)
##	02	02-NS201	Abajo LS#2 Lift Pump #1	Abajo LS#2 Lift Pump #1 LEAK	Abajo LS#2 Lift Pump #1 Leak Alarm Contact	2#14, #14G	TB#1 D13A/B	DI	DI Module #1, PT 3 (DC)
##	02	02-TSH201	Abajo LS#2 Lift Pump #1	Abajo LS#2 Lift Pump #1 Motor TEMP HIGH	Abajo LS#2 Lift Pump #1 Motor High Temp Contact	2#14, #14G	TB#1 D14A/B	DI	DI Module #1, PT 4 (DC)
	02	02-HS202	Abajo LS#2 Lift Pump #2	Abajo LS#2 Lift Pump #2 HOA in AUTO	Abajo LS#2 Lift Pump #2 HOA	2#14, #14G	TB#1 D15A/B	DI	DI Module #1, PT 5 (DC)
	02	02-YS202	Abajo LS#2 Lift Pump #2	Abajo LS#2 Lift Pump #2 RUNNING	Abajo LS#2 Lift Pump #2 VFD Circuit	2#14, #14G	TB#1 D16A/B	DI	DI Module #1, PT 6 (DC)
	02	02-XS202	Abajo LS#2 Lift Pump #2	Abajo LS#2 Lift Pump #2 VFD FAIL	Abajo LS#2 Lift Pump #2 VFD Circuit	2#14, #14G	TB#1 D17A/B	DI	DI Module #1, PT 7 (DC)
	02	02-NS202	Abajo LS#2 Lift Pump #2	Abajo LS#2 Lift Pump #2 LEAK	Abajo LS#2 Lift Pump #2 Leak Alarm Contact	2#14, #14G	TB#1 D18A/B	DI	DI Module #1, PT 8 (DC)
	02	02-TSH202	Abajo LS#2 Lift Pump #2	Abajo LS#2 Lift Pump #2 Motor TEMP HIGH	Abajo LS#2 Lift Pump #2 Motor High Temp Contact	2#14, #14G	TB#1 D19A/B	DI	DI Module #1, PT 9 (DC)
##	02	02-LSL401	Abajo LS#2 Lift Station Wetwell LOW Float	Abajo LS#2 Lift Station Wetwell All Pumps STOP	Abajo LS#2 Lift Station Wetwell LOW Float	2#14, #14G	TB#1 D110A/B	DI	DI Module #1, PT 10 (DC)
##	02	02-LSM401	Abajo LS#2 Lift Station Wetwell MIDLEVEL Float	Abajo LS#2 Lift Station Wetwell Lead Pump START	Abajo LS#2 Lift Station Wetwell MIDLEVEL Float	2#14, #14G	TB#1 D111A/B	DI	DI Module #1, PT 11 (DC)
##	02	02-LSH401	Abajo LS#2 Lift Station Wetwell HIGH Float	Abajo LS#2 Lift Station Wetwell Lag Pump START	Abajo LS#2 Lift Station Wetwell HIGH Float	2#14, #14G	TB#1 D112A/B	DI	DI Module #1, PT 12 (DC)
##	02	02-ZS101	Abajo LS#2 PLC Panel 02-LSCP Intrusion Switch	Abajo LS#2 PLC PANEL 02-LSCP INTRUSION	Abajo LS#2 PLC Panel 02-LSCP Intrusion Switch	2#14, #14G	TB#1 D113A/B	DI	DI Module #1, PT 13 (DC)
##	02	02-ZS102	Abajo LS#2 VFD Panel 02-VFDP Intrusion Switch	Abajo LS#2 VFD PANEL 02-VFDP INTRUSION	Abajo LS#2 VFD Panel 02-VFDP Intrusion Switch	2#14, #14G	TB#1 D114A/B	DI	DI Module #1, PT 14 (DC)
	02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#1 D115A/B	DI	DI Module #1, PT 15 (DC)
##	02	02-HS203	Abajo LS#2 Lift Pump #3 (Future)	Abajo LS#2 Lift Pump #3 HOA in AUTO (Future)	Abajo LS#2 Lift Pump #3 HOA (Future)	2#14, #14G	TB#2 D10A/B	DI	DI Module #2, PT 0 (DC)
##	02	02-YS203	Abajo LS#2 Lift Pump #3 (Future)	Abajo LS#2 Lift Pump #3 RUNNING (Future)	Abajo LS#2 Lift Pump #3 VFD Circuit (Future)	2#14, #14G	TB#2 D11A/B	DI	DI Module #2, PT 1 (DC)
##	02	02-XS203	Abajo LS#2 Lift Pump #3 (Future)	Abajo LS#2 Lift Pump #3 VFD FAIL (Future)	Abajo LS#2 Lift Pump #3 VFD Circuit (Future)	2#14, #14G	TB#2 D12A/B	DI	DI Module #2, PT 2 (DC)
##	02	02-NS203	Abajo LS#2 Lift Pump #3 (Future)	Abajo LS#2 Lift Pump #3 LEAK (Future)	Abajo LS#2 Lift Pump #3 Leak Alarm Contact (Future)	2#14, #14G	TB#2 D13A/B	DI	DI Module #2, PT 3 (DC)
##	02	02-TSH203	Abajo LS#2 Lift Pump #3 (Future)	Abajo LS#2 Lift Pump #3 Motor TEMP HIGH (Future)	Abajo LS#2 Lift Pump #3 Motor High Temp Contact (Future)	2#14, #14G	TB#2 D14A/B	DI	DI Module #2, PT 4 (DC)
	02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#2 D15A/B	DI	DI Module #2, PT 5 (DC)
##	02	02-LSHH401	Abajo LS#2 Lift Station Wetwell HIGH-HIGH Float	Abajo LS#2 Lift Station Wetwell Level HIGH-HIGH Alarm	Abajo LS#2 Lift Station Wetwell HIGH-HIGH Float	2#14, #14G	TB#2 D16A/B	DI	DI Module #2, PT 6 (DC)
##	02	02-ZS401	Abajo LS#2 Wetwell Hatch Intrusion Switch	Abajo LS#2 Wetwell Hatch INTRUSION	Abajo LS#2 Wetwell Hatch Intrusion Switch	2#14, #14G	TB#2 D17A/B	DI	DI Module #2, PT 7 (DC)
##	02	02-TSH101	Abajo LS#2 PLC Panel 02-LSCP Temp Switch	Abajo LS#2 PLC Panel 02-LSCP Temp HIGH	Abajo LS#2 PLC Panel 02-LSCP Temp Switch	2#14, #14G	TB#2 D18A/B	DI	DI Module #2, PT 8 (DC)
##	02	02-TSH102	Abajo LS#2 VFD Panel 02-VFDP Temp Switch	Abajo LS#2 VFD Panel 02-VFDP Temp HIGH	Abajo LS#2 VFD Panel 02-VFDP Temp Switch	2#14, #14G	TB#2 D19A/B	DI	DI Module #2, PT 9 (DC)
##	02	02-ESL101	Abajo LS#2 PLC Panel 02-LSCP UPS	Abajo LS#2 PLC Panel 02-LSCP UPS Battery LOW	Abajo LS#2 PLC Panel 02-LSCP UPS	2#14, #14G	TB#2 D110A/B	DI	DI Module #2, PT 10 (DC)
	02	02-FQIT101	Abajo LS#2 Effluent Flowmeter Transmitter	Abajo LS#2 Effluent TOTAL FLOW	Abajo LS#2 Effluent Flowmeter Transmitter (Inside 02-LSCP)	2#14, #14G	TB#2 D111A/B	DI	DI Module #2, PT 11 (DC)
	02	02-HS301	Abajo LS#2 Lift Station ENABLE Selector Switch	Abajo LS#2 Lift Station ENABLE	Abajo LS#2 Lift Station ENABLE Selector Switch	2#14, #14G	TB#2 D112A/B	DI	DI Module #2, PT 12 (DC)
	02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#2 D113A/B	DI	DI Module #2, PT 13 (DC)
	02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#2 D114A/B	DI	DI Module #2, PT 14 (DC)
	02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#2 D115A/B	DI	DI Module #2, PT 15 (DC)
##	02	02-YK201	Abajo LS#2 Lift Pump #1 VFD	Abajo LS#2 Lift Pump #1 VFD RUN Command	Abajo LS#2 Lift Pump #1 VFD	2#14, #14G	TB#1 D00A/B	DO	DO Module #3, PT 0 (DC)
	02	02-YK202	Abajo LS#2 Lift Pump #2 VFD	Abajo LS#2 Lift Pump #2 VFD RUN Command	Abajo LS#2 Lift Pump #2 VFD	2#14, #14G	TB#1 D01A/B	DO	DO Module #3, PT 1 (DC)
##	02	02-YK203	Abajo LS#2 Lift Pump #3 VFD (Future)	Abajo LS#2 Lift Pump #3 VFD RUN Command (Future)	Abajo LS#2 Lift Pump #3 VFD (Future)	2#14, #14G	TB#1 D02A/B	DO	DO Module #3, PT 2 (DC)
	02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#1 D03A/B	DO	DO Module #3, PT 3 (DC)
	02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#1 D04A/B	DO	DO Module #3, PT 4 (DC)
	02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#1 D05A/B	DO	DO Module #3, PT 5 (DC)
	02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#1 D06A/B	DO	DO Module #3, PT 6 (DC)
	02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	2#14, #14G	TB#1 D07A/B	DO	DO Module #3, PT 7 (DC)
##	02	02-SI201	Abajo LS#2 Lift Pump #1	Abajo LS#2 Lift Pump #1 SPEED Indication	Abajo LS#2 Lift Pump #1 VFD	TWSH	TB#1 A10A/B	AI	AI Module #4, PT 0 (DC)
	02	02-SI202	Abajo LS#2 Lift Pump #2	Abajo LS#2 Lift Pump #2 SPEED Indication	Abajo LS#2 Lift Pump #2 VFD	TWSH	TB#1 A11A/B	AI	AI Module #4, PT 1 (DC)
##	02	02-SI203	Abajo LS#2 Lift Pump #3 (Future)	Abajo LS#2 Lift Pump #3 SPEED Indication (Future)	Abajo LS#2 Lift Pump #3 VFD (Future)	TWSH	TB#1 A12A/B	AI	AI Module #4, PT 2 (DC)
##	02	02-LIT201	Abajo LS#2 Wetwell Level Transmitter	Abajo LS#2 Wetwell LEVEL	Abajo LS#2 Wetwell Level Transmitter (Inside 02-LSCP)	TWSH	TB#1 A13A/B	AI	AI Module #4, PT 3 (DC)
##	02	02-FIT101	Abajo LS#2 Effluent Flowmeter Transmitter	Abajo LS#2 Effluent FLOW	Abajo LS#2 Effluent Flowmeter Transmitter (Inside 02-LSCP)	TWSH	TB#1 A14A/B	AI	AI Module #4, PT 4 (DC)
	02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	TWSH	TB#1 A15A/B	AI	AI Module #4, PT 5 (DC)
	02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	TWSH	TB#1 A16A/B	AI	AI Module #4, PT 6 (DC)
	02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	TWSH	TB#1 A17A/B	AI	AI Module #4, PT 7 (DC)
##	02	02-SC201	Abajo LS#2 Lift Pump #1 VFD	Abajo LS#2 Lift Pump #1 SPEED Control	Abajo LS#2 Lift Pump #1 VFD	TWSH	TB#1 A00A/B	AO	AO Module #5, PT 0 (DC)
	02	02-SC202	Abajo LS#2 Lift Pump #2 VFD	Abajo LS#2 Lift Pump #2 SPEED Control	Abajo LS#2 Lift Pump #2 VFD	TWSH	TB#1 A01A/B	AO	AO Module #5, PT 1 (DC)
##	02	02-SC203	Abajo LS#2 Lift Pump #3 VFD (Future)	Abajo LS#2 Lift Pump #3 SPEED Control (Future)	Abajo LS#2 Lift Pump #3 VFD (Future)	TWSH	TB#1 A02A/B	AO	AO Module #5, PT 2 (DC)
	02	--	SPARE DISCRETE OUTPUT	SPARE DISCRETE OUTPUT	--	TWSH	TB#1 A03A/B	AO	AO Module #5, PT 3 (DC)

"	Part of Multiconductor Bundle or Single Communication Cable
**	Existing Equipment or Part of Package System
##	New Circuit Connections
BOLD	New Device, PLC Module, Card and/or Interface Equipment

REVISION

<i>SYMBOL</i>	<i>DATE:</i>	<i>BY:</i>
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SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
ABAJO LIFT STATION
RE-DIRECT

LIFT STATION CONTROL WIRING & I/O TAG LIST

APPROVED BY: REVIEWED BY: S. MORROW

DATE: JULY 2025	SHEET
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DRAWN BY:AS-RH	E-801
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