

RHETORIC STORAGE FACILITY

LOT 1 STERLING RECYCLING FACILITY, EL PASO COUNTY, STATE OF COLORADO

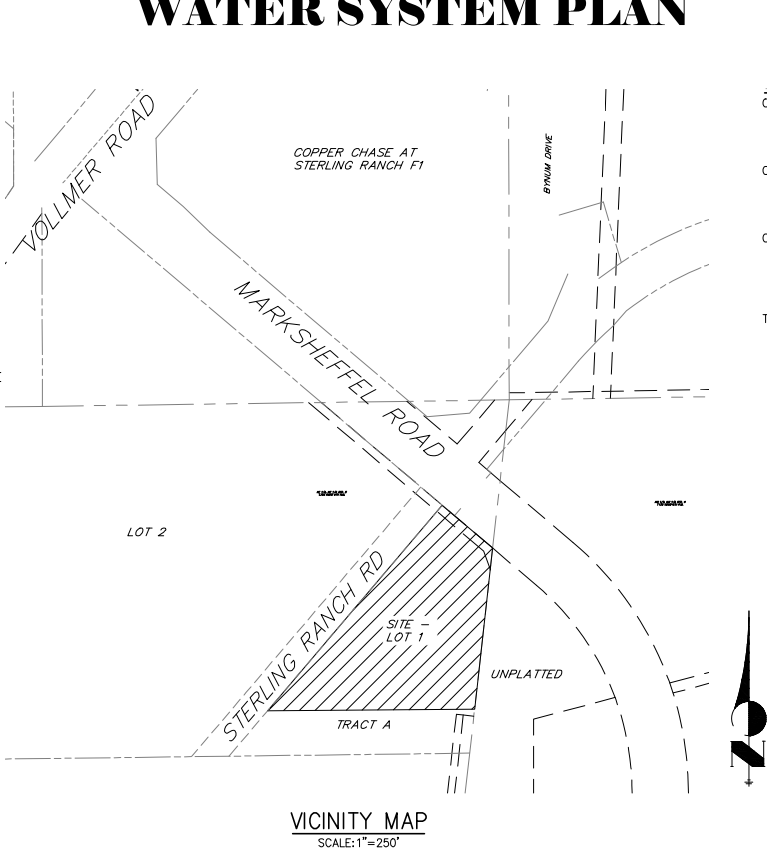
WATER SYSTEM PLAN

GENERAL NOTES

- ALL UTILITY CONSTRUCTION TO BE CONDUCTED IN CONFORMANCE WITH THE CURRENT FALCON AREA WATER AND WASTEWATER AUTHORITY (FAWWA, THE DISTRICT) SPECIFICATIONS.
- ALL PLANS ON THE JOB SITE SHALL BE SIGNED BY THE DISTRICT AND THE DISTRICT'S ENGINEER. ANY REVISION TO THE PLANS SHALL BE SO NOTED WITH THE OLD DRAWING MARKED NOT VALID.
- ALL STATIONING IS CENTERLINE UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE NOTED.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE DISTRICT. THE DISTRICT RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
- ALL OVER-LOT GRADING MUST BE COMPLETED TO WITHIN ONE (1) FOOT OF FINAL GRADE PRIOR TO INSTALLATION OF WATER AND WASTEWATER INFRASTRUCTURE.
- ALL WATER AND SEWER SERVICE LOCATIONS SHALL BE CLEARLY MARKED ON EITHER THE CURB HEAD OR THE FACE OF THE CURB, WITH AN "S" FOR SEWER AND A "W" FOR WATER.
- DUCTILE IRON PIPES, INCLUDING FITTINGS, VALVES, AND FIRE HYDRANTS, SHALL BE WRAPPED WITH POLYETHYLENE TUBING, DOUBLE BONDED AT EACH JOINT, AND ELECTRICALLY ISOLATED. BONDING AND ANODE CONNECTIONS SHALL BE THOROUGHLY COATED WITH BITUMINOUS COATINGS.
- ALL DUCTILE IRON PIPE LESS THAN TWELVE INCHES (12") AND FITTINGS SHALL HAVE CATHODIC PROTECTION USING TWO (2) NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 400 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING. ALL DUCTILE IRON PIPE TWELVE INCHES (12") AND GREATER FITTINGS SHALL HAVE CATHODIC PROTECTION USING TWO (2) NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 300 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING.
- ALL PIPE MATERIAL, BACKFILL, AND INSTALLATION SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE DISTRICT, COLORADO DEPARTMENT OF TRANSPORTATION, EL PASO COUNTY DEPARTMENT OF TRANSPORTATION, COLORADO SPRINGS UTILITIES, AND THE GEOTECHNICAL ENGINEER.
- COMPACTION TESTS SHALL BE 95% STANDARD PROCTOR AS DETERMINED BY ASTM D698, UNLESS OTHERWISE APPROVED BY THE DISTRICT OR HIGHER STANDARD AS IMPOSED BY ANOTHER AGENCIES HAVING RIGHT-OF-WAY JURISDICTION. THIS SHALL INCLUDE ALL VALVES, FIRE HYDRANT RUNS, WATER & SEWER SERVICE LINES, AND MANHOLES. ALL REPORTS SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL.
- THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY. THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE DISTRICT SHALL BE NOTIFIED OF ANY DEVIATIONS TO THE LINE AND/OR GRADE AS DEPICTED ON THE PLANS. CONTRACTOR SHALL SUBMIT TO THE DISTRICT AND THE ENGINEER OF RECORD A REPORT OF THE FIELD-VERIFIED INFORMATION PRIOR TO THE START OF CONSTRUCTION.
- ALL BENDS SHALL BE FIELD STAKED PRIOR TO THE START OF CONSTRUCTION.
- BENDS, DEFLECTION, AND CUT PIPE LENGTHS SHALL BE USED TO HOLD HORIZONTAL ALIGNMENT OF SEWER AND WATER LINES TO NO MORE THAN 0.5' FROM THE DESIGNED ALIGNMENT. CONSTRUCTION STAKES TO BE AT TWENTY-FIVE FEET (25') INTERVALS ALONG CURVES TO ENSURE LOCATION OF PIPELINE CONSTRUCTION.
- AT ALL LOCATIONS WHERE CAP AND STUB IS NOTED ON DRAWINGS, PROVIDE A PLUG AT THE END OF THE PIPE JOINT NEAREST THE SPECIFIED STATION. PROVIDE A REVERSE ANCHOR AT ALL WATER LINE PLUGS.
- ALL UNUSED, SALVAGED WATER UTILITY MATERIAL SHALL BE RETURNED TO THE METROPOLITAN DISTRICT AS REQUESTED.
- AT THE CONTRACTOR'S EXPENSE, ALL UTILITY MAINS SHALL BE SUPPORTED AND PROTECTED SUCH THAT THEY SHALL FUNCTION CONTINUOUSLY DURING CONSTRUCTION OPERATIONS. SHOULD A UTILITY MAIN FAIL AS A RESULT OF THE CONTRACTOR'S OPERATION, IT SHALL BE REPLACED IMMEDIATELY BY THE CONTRACTOR OR BY THE DISTRICT AT FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR/DEVELOPER.
- PUMPING OR BYPASS OPERATIONS SHALL BE REVIEWED AND APPROVED BY BOTH THE DISTRICT AND THE DISTRICT ENGINEER PRIOR TO EXECUTION.
- THE CONTRACTOR SHALL REPLACE OR REPAIR DAMAGE TO ALL SURFACE IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO FENCES, LANDSCAPING, CURB AND GUTTER, AND/OR ASPHALT THAT MAY BE CAUSED DURING CONSTRUCTION.
- ALL CONTRACTORS WORKING ON OR NEAR A WATER OR SEWER FACILITY (TO INCLUDE SERVICE LINES) SHALL HAVE LIABILITY INSURANCE NAMING THE DISTRICT AS AN ADDITIONAL INSURED AND SHALL PROVIDE A CURRENT COPY OF WORKERS COMPENSATION INSURANCE ON FILE WITH THE DISTRICT. NO WORK CAN PROCEED WITHOUT CURRENT CERTIFICATES ON FILE AT THE DISTRICT'S OFFICE.
- THE CONTRACTOR SHALL NOTIFY THE DISTRICT AND ALL AFFECTED UTILITY COMPANIES ADJACENT TO THE PROPOSED UTILITY CONSTRUCTION A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION. A WEEKLY CONSTRUCTION MEETING SHALL BE REQUIRED WITH THE CONTRACTOR, DISTRICT ENGINEER AND ALL OTHER PARTIES AS DEEMED NECESSARY BY THE DISTRICT.
- COMMENCEMENT OF CONSTRUCTION OF WATER/SEWER SYSTEMS WITHIN DISTRICT:
 - PRIOR TO THE START OF CONSTRUCTION, A PRECONSTRUCTION MEETING IS REQUIRED A MINIMUM OF 72 HOURS IN ADVANCE OF COMMENCEMENT OF WORK. A REPRESENTATIVE OF THE OWNER OR DEVELOPER, A REPRESENTATIVE OF THE CONTRACTOR, AND DESIGN ENGINEER ARE REQUIRED TO ATTEND. CONTACT THE DISTRICT TO SCHEDULE THE PRECONSTRUCTION MEETING. NO PRECONSTRUCTION MEETING CAN BE SCHEDULED BEFORE FOUR (4) SIGNED/APPROVED PLAN SETS ARE RECEIVED BY THE DISTRICT. REFER TO SECTION 1.9.5 OF FALCON AREA WATER & WASTEWATER AUTHORITY STANDARDS, LATEST EDITION.
 - THE CONTRACTOR IS REQUIRED TO NOTIFY THE DISTRICT A MINIMUM OF 48 HOURS AND A MAXIMUM OF 2 WEEKS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION ADJACENT TO THE KNOWN UTILITY LINES. REFER TO SECTION 1.9.5 OF FALCON AREA WATER & WASTEWATER AUTHORITY STANDARDS, LATEST EDITION.
- TESTING OF FACILITIES:
 - THE CONTRACTOR SHALL NOTIFY THE DISTRICT A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF ANY TESTING.
 - ALL SECTIONS OF WATER LINE ARE TO MEET THE FOLLOWING PRESSURE TESTING REQUIREMENTS
 - TEST 100% OF ALL LINES.
 - MUST PASS PRESSURE TEST TO 200 PSI FOR TWO HOURS (UNLESS OTHERWISE APPROVED ON THE PLANS).
- ALL SANITARY SEWER FACILITIES ARE TO MEET THE FOLLOWING TESTING REQUIREMENTS:
 - ALL LINES SHALL BE JET CLEANED PRIOR TO VACUUM OR PRESSURE TESTING.
 - ALL MANHOLES SHALL BE VACUUM TESTED WITH DISTRICT STAFF PRESENT PRIOR TO CCTV INSPECTION.
 - SEWER MAINS TO BE PRESSURE TESTED PRIOR TO CCTV INSPECTION.
 - ALL LINES SHALL BE CCTV INSPECTED AND VIDEO SHALL TO BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL.
- PRELIMINARY ACCEPTANCE SHALL BE DEFINED AS THE POINT IN TIME THAT THE DISTRICT ACCEPTS THE FACILITY FOR USE. ALL SURFACE IMPROVEMENTS AND RESTORATION SHALL BE COMPLETED WITHIN 30 DAYS OF COMMENCEMENT. SHOULD THE CONTRACTOR FAIL TO COMPLETE ALL SURFACE IMPROVEMENTS AND RESTORATION WITHIN 30 DAYS OF COMMENCEMENT OF SERVICE, THE DISTRICT, AT THEIR DISCRETION, MAY ELECT TO COMPLETE THE IMPROVEMENTS AT THE CONTRACTOR'S COST.
- FINAL ACCEPTANCE BY THE DISTRICT OF ANY LINE OR SYSTEM SHALL NOT OCCUR UNTIL COMPLETION OF FINAL ASPHALT LAYERS AND/OR FINAL COMPLETION AND/OR RESTORATION OF ALL SURFACE IMPROVEMENTS. THE WARRANTY PERIOD FOR ALL FACILITIES PRIOR TO FINAL ACCEPTANCE SHALL BE 24 MONTHS COMMENCING AFTER PRELIMINARY ACCEPTANCE.
- ACCEPTANCE
 - THE DISTRICT MAY GIVE PRELIMINARY ACCEPTANCE ONCE ALL OF THE TESTS ON ALL THE LINES HAVE BEEN COMPLETED AND A WALK-THROUGH HAS OCCURRED.
 - A SECOND ACCEPTANCE MAY OCCUR ONCE THE FIRST LIFT OF ASPHALT GOES DOWN AND A SECOND WALK-THROUGH OF THE SYSTEM OCCURS. IF ALL FACILITIES ARE CLEAN AND ACCESSIBLE, A FINAL ACCEPTANCE MAY OCCUR (THE DISTRICT MAY REQUIRE CLEANING AND RE-VIDEO OF THE SYSTEM, DEPENDING ON THE SEVERITY OF THE CONTAMINATION).
- ALL WATER AND SEWER MAINS, INCLUDING SERVICE LINES, SHALL HAVE "AS-BUILT" DRAWINGS PREPARED AND APPROVED PRIOR TO PRELIMINARY ACCEPTANCE BY THE DISTRICT.
- ALL COMMERCIAL/BUSINESS DEVELOPMENTS SHALL HAVE AN EIGHT INCH (MIN.) WATER MAIN LOOPED THROUGH THE PROPOSED PROPERTY WITH GATE VALVES LOCATED WHERE THE MAIN ENTERS THE PROPERTY LINE. AN EIGHT-INCH SEWER MAIN SHALL BE INSTALLED FOR SERVICE TO COMMERCIAL/BUSINESS DEVELOPMENTS, AND A MANHOLE SHALL BE LOCATED WHERE THE MAIN ENTERS THE PROPERTY. THE END OF THE MAINS SHALL BE MARKED WITH THE APPROPRIATE COLORED CARSONITE MARKER ALONG WITH TRACER WIRE.
- AFTER REVIEW AND APPROVAL OF PLANS FOR THE EXTENSION OF LINES, FACILITIES, AND/OR SERVICES, CONSTRUCTION MUST HAVE COMMENCED WITHIN 18 MONTHS FOR RESIDENTIAL SUBDIVISIONS AND 12 MONTHS FOR ANY COMMERCIAL INSTALLATIONS.
- INSPECTION FEES: CALL THE DISTRICT (719-495-2500) FOR FEE SCHEDULE.

WATER SYSTEM INSTALLATION NOTES

- ALL WATER AND FORCE MAIN PIPE SHALL BE AWWA C900 PVC, OR EQUAL, DR18. ALL WATER AND FORCE MAIN FITTINGS SHALL HAVE MECHANICAL RESTRAINS AND THRUST BLOCKS. ALL WATER AND FORCE MAIN PIPE SHALL HAVE A MINIMUM COVER DEPTH OF FIVE AND ONE-HALF (5.5) FEET.
- ALL WATER VALVES ASSOCIATED WITH THE POTABLE WATER SYSTEM SHALL BE OPEN CLOCKWISE. ALL VALVES INSTALLED IN LANDSCAPED AREAS AND/OR NOT WITHIN PAVED STREETS SHALL BE MARKED WITH CARSONITE MARKERS. ALL VALVES ASSOCIATED WITH THE RAW WATER SYSTEM SHALL BE OPEN COUNTERCLOCKWISE AND MARKED WITH CARSONITE MARKERS AS APPLICABLE.
- THE DEVELOPER OR HIS ENGINEER SHALL LOCATE ALL FIRE HYDRANTS AND SERVICE STUB-OUTS FOR FUTURE DEVELOPEMENT. ANY REQUIRED REALIGNMENT, (HORIZONTAL OR VERTICAL), SHALL BE AT THE EXPENSE OF THE DEVELOPER. FIRE HYDRANT LOCATION SHALL BE REVIEWED AND APPROVED BY THE APPLICABLE FIRE AUTHORITY.
- FIRE HYDRANTS SHALL BE OPEN RIGHT WITH 7/8" x 7/8" SQUARE TAPERED ALONG WITH SERVICE CAPS. LUBRICATION TYPE: (GREASE). ACCEPTABLE BRANDS ARE KENNEDY GUARDIAN (K81D, K81A, K81AM), OR APPROVED EQUAL.
- ALL MAIN LINES (PVC & DUCTILE IRON) SHALL BE INSTALLED WITH COATED #12 TRACER WIRE WITH TEST STATIONS AT INTERVALS NO GREATER THAN 500 FT (VALVE BOXES CAN BE USED AT INTERSECTIONS AND SERVICE STUBS).
- CONTRACTOR SHALL MAKE CONNECTIONS TO EXISTING WATER LINE WITHOUT SHUTDOWN, OR ELSE NOTIFY THE DISTRICT OF ANY SERVICE SHUTDOWNS NECESSARY TO CONNECT TO EXISTING LINES.
- IRRIGATION SERVICES SHALL HAVE A STOP AND WASTE CURB STOP VALVE INSTALLED ALONG WITH TRACER WIRE EXTENDING BACK TO THE MAIN LINE.
- COMMENCEMENT OF USE OF WATER LINES AND/OR SYSTEMS:
 - NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL AFTER THE COMPLETION OF ALL PRESSURE TESTING, FLUSHING, BAC-T TESTING, COMPACTION TESTING, AND AS-BUILT DRAWINGS ARE SUBMITTED AND APPROVED BY THE DISTRICT.
 - NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL ALL SERVICE LINES ARE COMPLETED AND THE FIRST LIFT OF ASPHALT IS COMPLETED OVER THE LINE. IN THE CASE WHERE NO ASPHALT IS TO BE PLACED OVER THE LINE, SURFACE IMPROVEMENTS SHALL BE COMPLETED PRIOR TO USE OF THE FACILITY.
 - ALL EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED BY THE DISTRICT, AND RECORDED.



SHEET INDEX

1	-	COVER SHEET
2	-	LEGEND
3	-	WATER SYSTEM PLAN
4-6	-	FAWWA DETAILS
6	-	TOTAL SHEETS

BASIS OF BEARINGS

THE NORTH LINE OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 5, TOWNSHIP 13 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, BEING MONUMENTED AT THE NORTHEAST CORNER OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 5 BY A 3-1/4" ALUMINUM CAP STAMPED "LS 10376" AND AT THE NORTH QUARTER CORNER BY A 3-1/4" ALUMINUM CAP STAMPED "LS 4842 1996", BEARING S89°14'13"W.

BENCHMARKS

1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF BARBARICK SUBDIVISION
NORTHING = 411416.273
EASTING = 235167.071
ELEVATION = 7023.42

AGENCIES

OWNER/DEVELOPER:	COLORADO CONCRETE CRUSHING 20 BOULDER CRESCENT, SUITE 100 COLORADO SPRINGS, CO 80903 ERIC HOWARD (719) 964-0064	WATER & WASTEWATER:	FALCON AREA WATER & WASTEWATER AUTHORITY ENGINEER: RESPEC 5540 E. TECH CENTER DR. COLORADO SPRINGS, CO 80919 (719) 227-0072
CIVIL ENGINEER:	ALL TERRAIN ENGINEERING 1004 WEST VAN BUREN STREET COLORADO SPRINGS, CO 80907 NICHOLAS Q. JOKERST, P.E. (530) 391-7635	FIRE DISTRICT:	BLACK FOREST FIRE PROTECTION DISTRICT 11445 TEACHOUT ROAD COLORADO SPRINGS, CO 80908 (719) 495-4300
COUNTY ENGINEERING:	EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, CO 80910 JEFF RICE, P.E. (719) 520-6300	GAS DEPARTMENT:	COLORADO SPRINGS UTILITIES 7710 DURANT DR. COLORADO SPRINGS, CO 80947 (719) 668-3556
TRAFFIC ENGINEERING:	EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS 3275 AKERS DRIVE COLORADO SPRINGS, CO 80922 JENNIFER IRVINE, P.E. (719) 520-6460	ELECTRIC DEPARTMENT:	MOUNTAIN VIEW ELECTRIC 11140 E. WOODMEN ROAD FALCON, CO 80831 (719) 495-2283

FIRE AUTHORITY APPROVAL

THE NUMBER OF FIRE HYDRANTS AND HYDRANT LOCATIONS SHOWN ON THIS WATER INSTALLATION PLAN ARE CORRECT AND ADEQUATE TO SATISFY THE FIRE PROTECTION REQUIREMENTS AS SPECIFIED BY THE FIRE DISTRICT SERVING THE PROPERTY NOTED ON THE PLANS.

FIRE PROTECTION DISTRICT _____

SIGNED _____
FIRE PROTECTION DISTRICT

DATE _____

EL PASO COUNTY STATEMENT

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

8/13/2026

JOSHUA PALMER, P.E.

DATE

COUNTY ENGINEER/ECM ADMINISTRATOR

WATER & SEWER MAIN EXTENSIONS

ANY CHANGES OR ALTERATIONS AFFECTING THE GRADE, ALIGNMENT, ELEVATION AND/OR DEPTH OF COVER OF ANY WATER OR SEWER MAINS OR OTHER APPURTENANCE SHOWN ON THIS DRAWING SHALL BE THE RESPONSIBILITY OF THE OWNER/DEVELOPER. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR ALL OPERATIONAL DAMAGES AND DEFECTS IN INSTALLATION AND MATERIAL FOR MAINS AND SERVICES FROM THE DATE OF APPROVAL UNTIL FINAL ACCEPTANCE IS ISSUED.

SIGNED _____

CHAZ MORLEY

DATE 07/08/2026

COLORADO CONCRETE CRUSHING
20 BOULDER CRESCENT, SUITE 100
COLORADO SPRINGS, CO 80903
(719) 964-0064

FALCON AREA WATER & WASTEWATER AUTHORITY - WATER DESIGN APPROVAL

THE FALCON AREA WATER & WASTEWATER AUTHORITY RECOGNIZED THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN AND HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

PROJECT NO. _____

SIGNED _____

Emery Layton

FAWWA ENC 107

DATE 16 July 2026

IN CASE OF ERRORS OR OMISSIONS WITH THE WASTEWATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE "RULES & REGULATIONS FOR INSTALLATION OF WASTEWATER MAINS AND SERVICES" SHALL RULE.

ENGINEER'S STATEMENT

THIS WATER SYSTEM PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR WASTEWATER SYSTEM PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLANS.

NICHOLAS Q. JOKERST, P.E.

COLORADO P.E. 59273

FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING



THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.



PREPARED FOR:
COLORADO CONCRETE CRUSHING
20 S BOULDER CRESCENT, SUITE 100
COLORADO SPRINGS, CO
ATTN: ERIC HOWARD
(719) 964-0064
EHOWARD@BASELANDLLC.COM

UNTIL SUCH TIME AS THESE
DRAWINGS ARE APPROVED BY THE
APPROPRIATE REVIEWING
AGENCIES, ALL TERRAIN
ENGINEERING APPROVES THEIR
USE ONLY FOR THE PURPOSES
DESIGNATED BY WRITTEN
AUTHORIZATION.

DATE	REV	DESCRIPTION

RHETORIC STORAGE FACILITY

COVER SHEET

DESIGN: NQJ
REVIEW: REB
DATE: 07/08/2026
H-SCALE: 1" = 250'
V-SCALE: NA
SHEET

1 OF 6

PLANOMETRICS		
	EXISTING	PROPOSED
SECTION LINE	----	----
RIGHT-OF-WAY	----	----
PARCEL LINE	----	----
EASEMENT LINE	----	----
BOUNDARY LINE	----	----
CENTER LINE	----	----

CONSTRUCTION		
	EXISTING	PROPOSED
C&G	=====	=====
EDGE OF ASPHALT	-----	-----
CONCRETE	-----	-----
SIDE WALK	-----	-----
CROSS PAN	-----	-----
PARKING LOT STRIPING	-----	-----
ROADWAY STRIPING - DHASED	-----	-----
ROADWAY STRIPING - DOTTED	-----	-----
GUARDRAIL	-----	-----
FENCE - X	-X-X-X-X-X-X-	-X-X-X-X-X-X-
SOUNDWALL	-□-□-□-□-□-□-	-□-□-□-□-□-□-
DEMO	=====	=====
GRAVEL	=====	=====
RIPRAP	=====	=====
DIRT	=====	=====
TRAIL/PATH	-----	-----
RAIL LINE	=====	=====

GRADING		
	EXISTING	PROPOSED
CONTOUR INTERMEDIATE	-----	-----
CONTOUR INDEX	-----	-----
TOP OF SLOPE	-----	-----
TOE OF SLOPE	-----	-----
CUT/FILL BOUNDARY	-----	-----
LIMITS OF GRADING	-----	-----
LIMITS OF DISTURBANCE	-----	-----

UTILITIES		
	EXISTING	PROPOSED
SANITARY SEWER	-----SS-----	-----SS-----
SANITARY SEWER SERVICE	-----SS-----	-----SS-----
POTABLE WATER MAIN	-----W-----	-----W-----
POTABLE WATER SERVICE	-----W-----	-----W-----
RAW WATER MAIN	-----RAW-----	-----RAW-----
IRRIGATION MAIN	-----IM-----	-----IM-----
SANITARY FORCE MAIN	-----FM-----	-----FM-----
UNDER-DRAIN	-----UD-----	-----UD-----
GAS PIPE	-----G-----	-----G-----
HIGH PRESSURE GAS	-----HPG-----	-----HPG-----
OIL/PETROLEUM LINE	-----O-----	-----O-----
UNDER-GROUND ELECTRIC	-----UGE-----	-----UGE-----
OVER-HEAD ELECTRIC	-----OHU-----	-----OHU-----
FIBER OPTIC	-----FO-----	-----FO-----
COMMUNICATION LINES MISC.	-----COM-----	-----COM-----
STORM PIPE	-----	-----
HGL MINOR	-----	-----
HGL MAJOR	-----	-----

DRAINAGE		
	EXISTING	PROPOSED
BASE FLOOD ELEVATION	=====	=====
100-YR FLOOD PLAIN	-----100YR-----	-----100YR-----
500-YR FLOOD PLAIN	-----500YR-----	-----500YR-----
FLOODWAY	-----FLOOD-----	-----FLOOD-----
SWALE/DITCH	-----	-----
THALWEG (STREAM/CREEK)	-----	-----
LIMITS OF WETLANDS	-----	-----
EDGE OF WATER	-----	-----
SILT FENCE	-----	-----
CONSTRUCTION FENCE/MARKERS	-----	-----

UTILITY SYMBOLS		
	EXISTING	PROPOSED
STORM SEWER MANHOLE	⊙	⊙
STORM INLET	□	▣
AREA INLET - SQUARE	□	■
AREA INLET - ROUND	○	●
FLARED END SECTION	▷	▷

TRAFFIC		
	EXISTING	PROPOSED
TRAFFIC SIGNAL BOX	⊠	⊠
TRAFFIC SIGNAL POLE	⊠	⊠
SIGN	⊠	⊠
STREET LIGHT	⊠	⊠
STREET LIGHT - SINGLE	⊠	⊠
STREET LIGHT - DOUBLE	⊠	⊠
LUMINAIRE	⊠	⊠

LANDSCAPE		
	EXISTING	PROPOSED
TREE - CONIFEROUS	⊠	⊠
TREE - DECIDUOUS	⊠	⊠
SHRUB/BUSH	⊠	⊠
SHRUBS AND BUSHES	⊠	⊠
IRRIGATION BOX	⊠	⊠
IRRIGATION SPRINKLER	⊠	⊠
IRRIGATION VALVE	⊠	⊠
BOLLARD	⊠	⊠
FLAGPOLE	⊠	⊠

UTILITY SYMBOLS		
	EXISTING	PROPOSED
LINE MARKER	⊠	⊠
SERVICE MARKER	⊠	⊠
CLEAN-OUT	⊠	⊠
MANHOLE	⊠	⊠

WATER		
	EXISTING	PROPOSED
LINE MARKER	⊠	⊠
SERVICE MARKER	⊠	⊠
FIRE HYDRANT	⊠	⊠
FIRE CONNECTION	⊠	⊠
MANHOLE	⊠	⊠
BEND	⊠	⊠
BLOW-OFF VALVE	⊠	⊠
WELL	⊠	⊠
METER	⊠	⊠
VALVE	⊠	⊠
REDUCER	⊠	⊠
THRUST BLOCK	⊠	⊠
CROSS	⊠	⊠
PLUG W/ THRUST BLOCK	⊠	⊠
TEE	⊠	⊠
REVERSE ANCHOR	⊠	⊠
ANODE	⊠	⊠
AIR & VACUUM VALVE ASSEMBLY	⊠	⊠

GAS		
	EXISTING	PROPOSED
MARKER	⊠	⊠
SERVICE MARKER	⊠	⊠
METER	⊠	⊠

DRY UTILITIES		
	EXISTING	PROPOSED
CABLE TV MARKER	⊠	⊠
CABLE TELEVISION PEDESTAL	⊠	⊠
ELECTRIC MARKER	⊠	⊠
ELECTRIC SERVICE MARKER	⊠	⊠
ELECTRICAL PEDESTAL	⊠	⊠
ELECTRICAL METER	⊠	⊠
ELECTRICAL MANHOLE	⊠	⊠
FIBER-OPTIC MARKER	⊠	⊠
IRRIGATION PEDESTAL	⊠	⊠
TELEPHONE MARKER	⊠	⊠
TELEPHONE PEDESTAL	⊠	⊠
TELEPHONE MANHOLE	⊠	⊠
UTILITY POLE	⊠	⊠
GUY ANCHOR	⊠	⊠
GUY POLE	⊠	⊠

MISC. UTILITIES		
	EXISTING	PROPOSED
VENT PIPE	⊠	⊠
TEST HOLE DESIGNATOR	⊠	⊠

ABBREVIATIONS:		
ASCE - AMERICAN SOCIETY OF CIVIL ENGINEERS	MIN - MINIMUM	
BLDG - BUILDING	OH - OVERHEAD	
BW - BOTTOM OF WALL	PB - PUBLIC	
CG - CURB AND GUTTER	PC - POINT OF CURVATURE	
CIP - CAST IRON PIPE	PCC - POINT OF COMPOUND CURVATURE	
CL - CENTERLINE	PCR - POINT OF CURB RETURN	
CMP - CORRUGATED METAL PIPE	PR - PROPOSED	
CONC - CONCRETE	PRC - POINT OF REVERSE CURVATURE	
DIP - DUCTILE IRON PIPE	PVC - POLYVINYL CHLORIDE PIPE	
DS - DOWNSPOUT	PVT - PRIVATE	
EL - ELEVATION	PT - POINT OF TANGENCY	
ESMT - EASEMENT	P.U.E - PUBLIC UTILITY EASEMENT	
EX - EXISTING	P.U.A.E - PUBLIC UTILITY & ACCESS EASEMENT	
FES - FLARED END SECTION	P.U.D.E - PUBLIC UTILITY & DRAINAGE EASEMENT	
FL - FLOWLINE	P.I.E - PUBLIC IMPROVEMENT EASEMENT	
GB - GRADE BREAK	R - RADIUS	
HP - HIGH POINT	RIM - RIM ELEVATION	
HYD - HYDRANT	STM - STORM	
INV - INVERT ELEVATION	TBC - TOP BACK OF CURB	
LF - LINEAR FEET	TW - TOP OF WALL	
LP - LOW POINT	TYP - TYPICAL	
MH - MANHOLE	UD - UNDERDRAIN	
	UT - UTILITY	
	WTR - WATER	
	XPAN - CROSSPAN	

ENGINEER'S STATEMENT

THIS WATER SYSTEM PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR WASTEWATER SYSTEM PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLANS.

NICHOLAS Q. JOKERST, P.E.
COLORADO P.E. 59273
FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING

DESIGN: NQJ
REVIEW: REB
DATE: 07/08/2026
(H-SCALE: NA
(V-SCALE: NA
SHEET
2 OF 6



ALL TERRAIN
ENGINEERING

PREPARED FOR:
COLORADO CONCRETE CRUSHING
20 S. BOULDER CRESCENT, SUITE 100
COLORADO SPRINGS, CO
ATTN: ERIC HOWARD
(719) 964-0064
EHOWARD@BASELANDLCC.COM

UNTIL SUCH TIME AS THESE
DRAWINGS ARE APPROVED BY THE
APPROPRIATE REVIEWING
AGENCIES, ALL TERRAIN
ENGINEERING APPROVES THEIR
USE ONLY FOR THE PURPOSES
DESIGNATED BY WRITTEN
AUTHORIZATION.

JOB NO: 25005 LOCATION: EPC

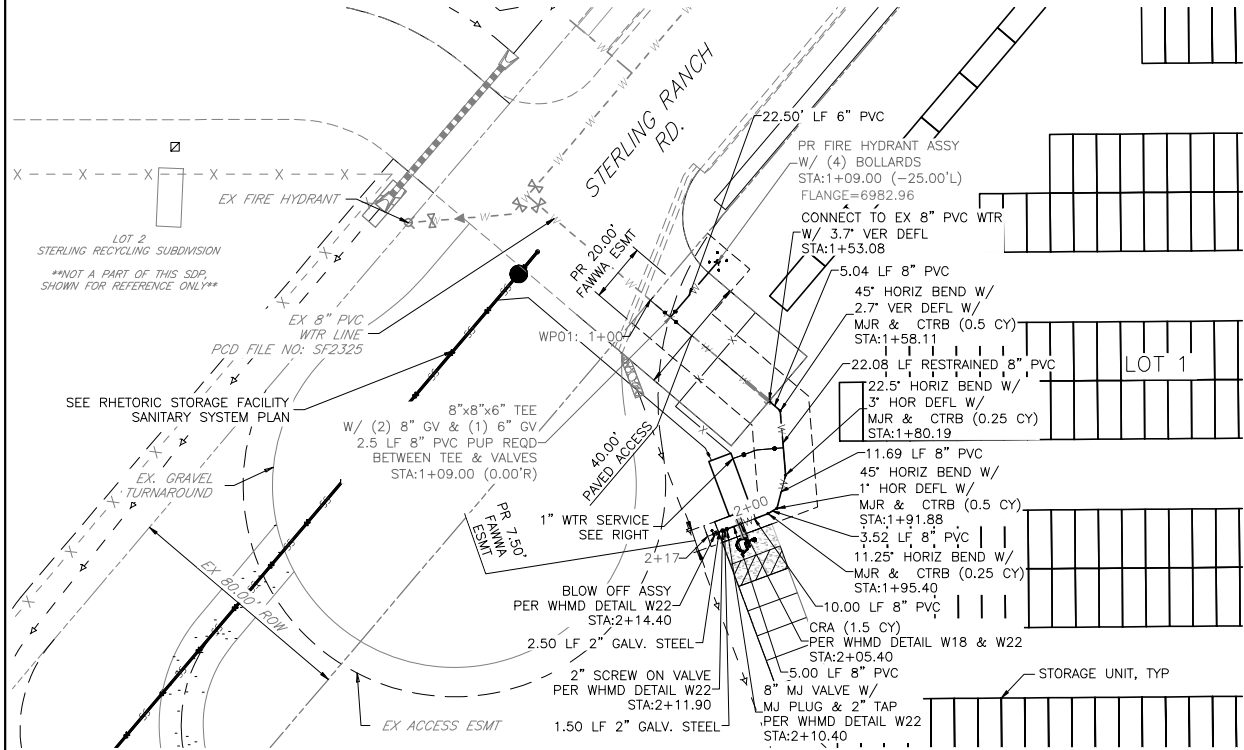
REV	DESCRIPTION	DATE

RHETORIC STORAGE FACILITY

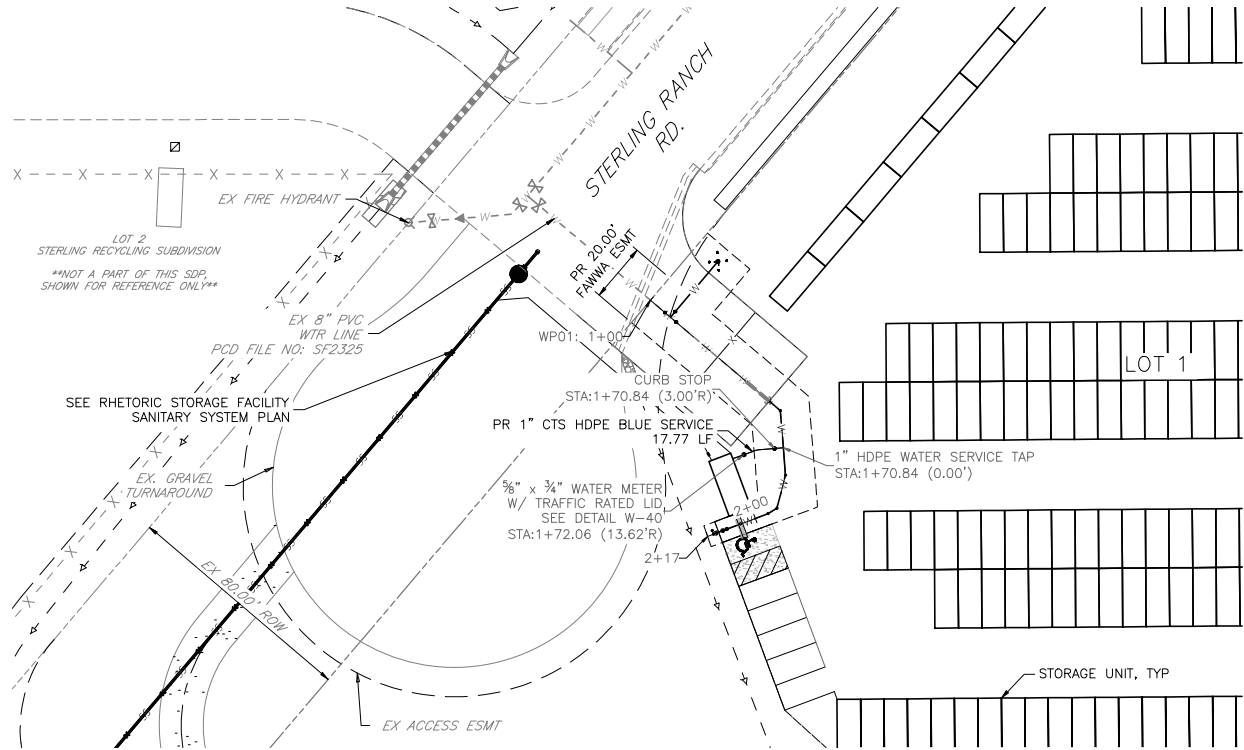
LEGEND

DESIGN: NQJ
REVIEW: REB
DATE: 07/08/2026
(H-SCALE: NA
(V-SCALE: NA
SHEET
2 OF 6

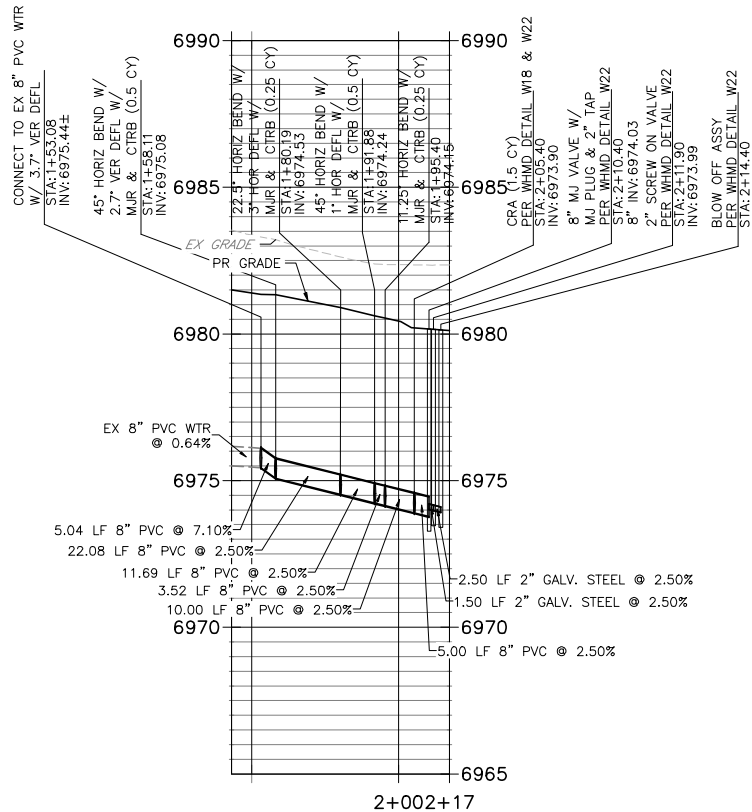
WATER MAIN PLAN



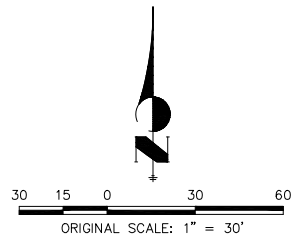
WATER SERVICE PLAN



WP01
STA 1+43.08 TO 2+17.40



THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.



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JOB NO: 25005 LOCATION: EPC

REV	DESCRIPTION	DATE

RHETORIC STORAGE FACILITY

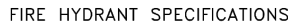
WATER SYSTEM PLAN

DESIGN: NQJ
REVIEW: REB
DATE: 07/08/2026
H-SCALE: 1" = 30'
V-SCALE: 1" = 3'
SHEET

3 OF 6



W-2



W-3

1. ON ANY VALVE INSTALLATION A FITTING, THE VALVE SHALL BE ANCHORED BY BOLTS, REVERSE ANCHOR, AND MECHANICAL JOINT RESTRAINTS. 3/4" ALL-THREAD RODS SHALL BE USED WITH FIG. 7 BOLTS OR APPROVED DUCTILE IR LUGS FOR DEAD-END VALVE AND/OR FLUGS. ALL METALLIC COMPONENTS SHALL BE WRAPPED IN POLYETHYLENE TUBING.
2. ANCHOR PIPE OR FOSTER COUPLINGS MAY BE SUBSTITUTED FOR SPACER PIPE AND RODS.
3. THE CONCRETE REVERSE ANCHORS USED SHALL BE SIZED AS INDICATED ON DRAWING "W-18".
4. SEE DRAWINGS "W-13" AND "W-28" FOR APPLICATION OF MECHANICAL JOINT RESTRAINTS.
5. SEE DRAWING "W-6" FOR VALVE BOX INSTALLATION.

VALVE INSTALLATION & LOCATION

W-5



1. SJP-TYPE 5-1/4" I.D. SHAFT TYLER PIPE SERIES 664-A OR EQUIVALENT, APPROVED BY THE DISTRICT
2. MAIN AND FIRE HYDRANT VALVES AND VALVE BOXES SHALL BE LOCATED IN AND UNDER THE DRIVING SURFACE OF THE STREET, NOT IN THE CURB PAN, CURB, OR BEHIND THE CURB.
3. SEE DRAWING "W-10" FOR TRACER WIRE INSTALLATION AT VALVE BOXES.

VALVE BOX INSTALLATION

W-6



W-7



1. CABLED CONNECT TO BE PRIMED AND COATED CAREFULLY. PACKAGED ANODE SHOULD BE COVERED WITH FINE SOIL CONTAINING NO ROCKS OR DIRT CLUMPS, TAMPED.
2. WHEN ANODES ARE REQUIRED WITH METAL FITTINGS AND APPURTENANCES TOGETHER WITH PVC PIPE INSTALLATION, THE ANODES SHALL BE PLACED AND ATTACHED TO THE METAL IN SAME MANNER AS SHOWN ON THIS DRAWING. 9/8L ANODES CAN BE USED ON METAL FITTINGS 12" & LESS IN DIAMETER AND 17LB ANODES FOR METAL FITTINGS GREATER THAN 12" DIAMETER WHEN USING PVC PIPE.
3. PACKAGED ANODE TO BE WETTED AND COVERED WITH SOIL PRIOR TO BACKFILLING.

BONDING JOINT & ANODE INSTALLATION

W-8



TEST WIRES TO BE USED WHEN REQUIRED

INSULATOR INSTALLATION

W-9

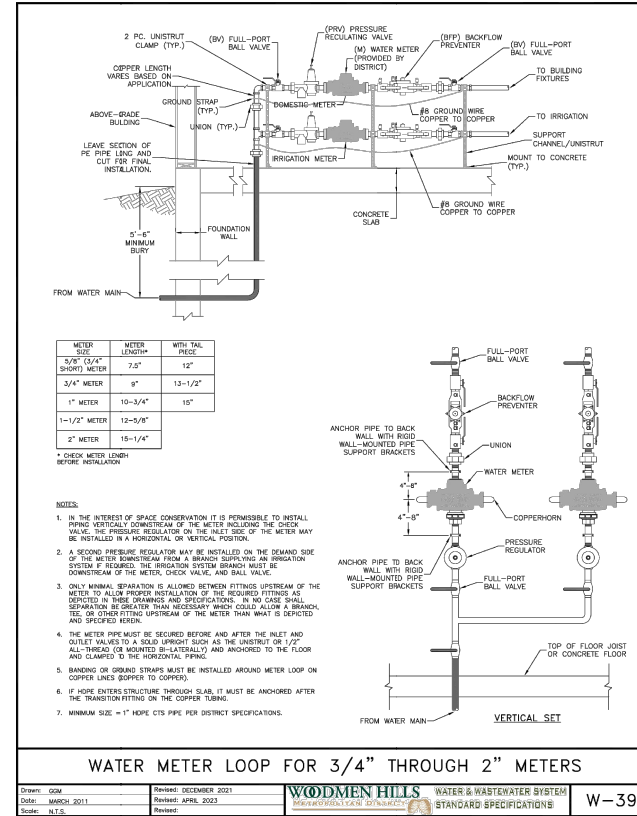
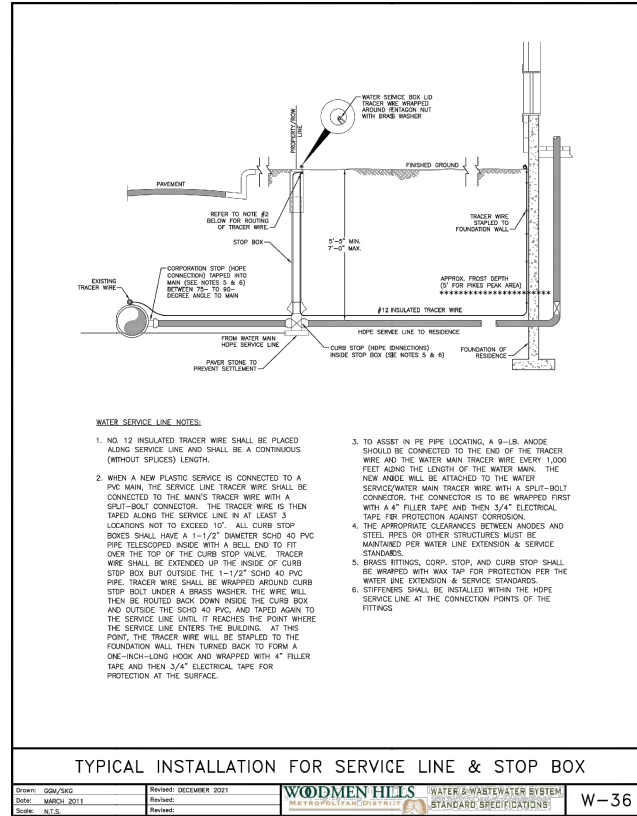
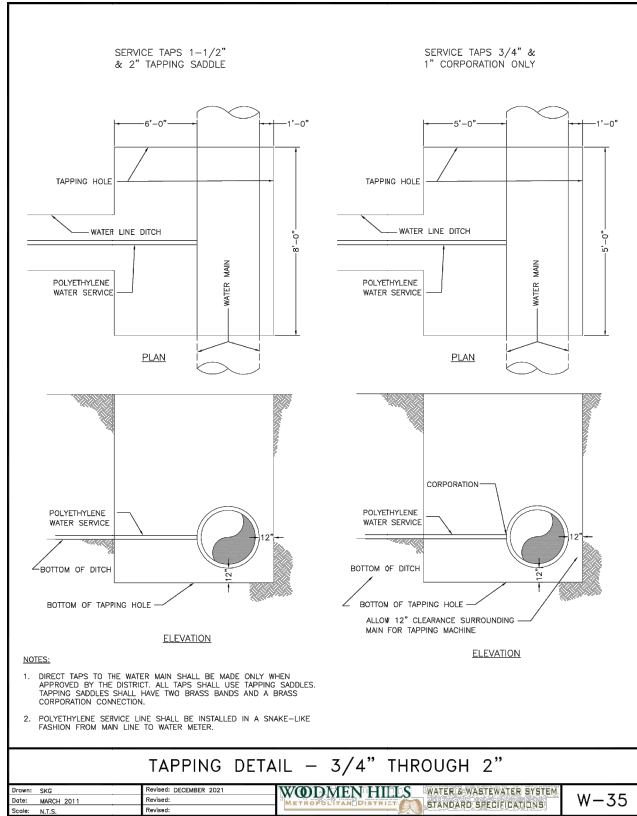
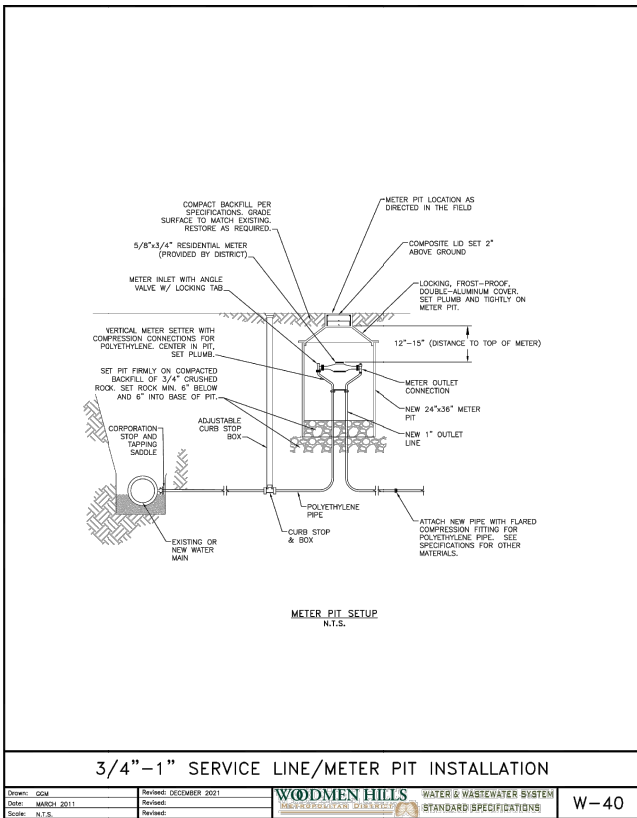
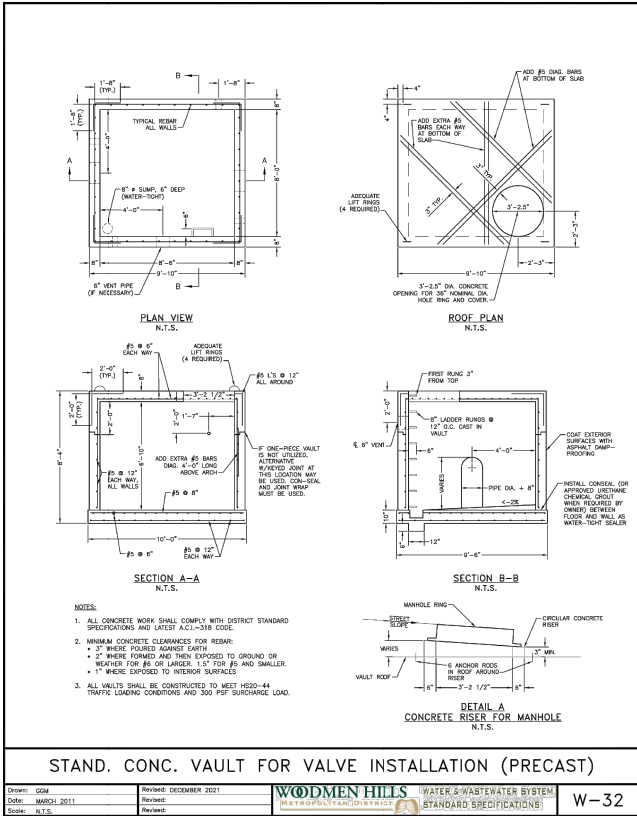


W-1C

STANDARD DETAILS SHOWN WERE REVIEWED ONLY AS TO THEIR APPLICATION ON THIS PROJECT

Nick J. Sokerst
NICHOLAS J. SOKERST, P.E.
COLORADO P.E. 59273
FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

07/08/2026



ALL TERRAIN ENGINEERING

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JOB NO: 25005 LOCATION: EPC

REV	DESCRIPTION	DATE

RHETORIC STORAGE FACILITY

FAWWA DETAILS

DESIGN: NQJ
REVIEW: REB
DATE: 07/08/2026

H-SCALE: NA
V-SCALE: NA

SHEET

6 OF 6

ENGINEER'S STATEMENT

STANDARD DETAILS SHOWN WERE REVIEWED ONLY AS TO THEIR APPLICATION ON THIS PROJECT

NICHOLAS Q. JOKERS, P.E.
COLORADO P.E. 59273
FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING, LLC

59273
07/08/2026
DATE