

TRIVIEW METROPOLITAN DISTRICT

NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION

MONUMENT, CO

SEPTEMBER 2022

CODE STATEMENT

<p>I. APPLICABLE CODES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:</p> <p>A. PIKES PEAK REGIONAL BUILDING CODE (2017)</p> <p>B. INTERNATIONAL BUILDING CODE (2015)</p> <p>C. INTERNATIONAL ENERGY CONSERVATION CODE (2015)</p> <p>D. INTERNATIONAL MECHANICAL CODE (2015)</p> <p>E. INTERNATIONAL FUEL GAS CODE (2015)</p> <p>F. INTERNATIONAL PLUMBING CODE (2018)</p> <p>G. NATIONAL ELECTRICAL CODE (2020)</p> <p>H. ICC/ANSI A117.1 ACCESSIBILITY STANDARD (2009)</p>	<p>II. CODE ABSTRACT (CONT.)</p> <p>B. GENERAL PROPERTY INFORMATION</p> <p>-LOCATION: EL PASO COUNTY</p> <p>-LEGAL DESCRIPTION: SEC 03-12-66</p> <p>-EPC PARCEL SCHED #: 6203000002</p> <p>-ZONING: RR-5</p> <p>-LAND USE: POLITICAL SUBDIVISION</p> <p>-OWNER: CITY OF COLORADO SPRINGS</p> <p>-TAX STATUS: POLITICAL/EXEMPT</p> <p>C. BUILDING CONSTRUCTION</p> <p>-TOTAL BUILDING AREA: 1,496 SF</p> <p>-BUILDING HEIGHT: 20 FT</p> <p>-# OF LEVELS: 2</p> <p>D. BUILDING CODE ANALYSIS</p> <p>-CONSTRUCTION TYPE: TYPE II-B</p> <p>-O.C. CLASSIFICATION: U</p> <p>-USE: UTILITY</p> <p>-ALLOWABLE HEIGHT: 30 FT</p> <p>E. EGRESS REQUIREMENTS:</p> <p>-OC. LOAD CALCULATION</p> <p>TOTAL BUILDING: 1,496 SF x 1/100 = 14.96 SF</p> <p>-TOTAL EXITS PROVIDED: 1</p> <p>-EXITS REQUIRED: 1</p>
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LEGEND

	PROPERTY LINE
	EASEMENT/LEASE AGREEMENT AREA
	EX FENCE
	EX WATER LINE
	EX UG ELECTRIC LINE
	EX ELEC POWER POLE
	EX FIRE HYDRANT
	EX TREE (SIZE VARIES)
	EX CONTOURS-MAJOR
	EX CONTOURS-MINOR
	PP CONTOURS-MAJOR
	PP CONTOURS-MINOR
	PP UG ELECTRIC LINE
	PP WATER LINE
	PP FIRE HYDRANT
	PP FENCE (BARBED WIRE)
	PP FENCE (SPLIT RAIL)
	PP STAGING AREA (INITIAL)
	PP CONCRETE WASHOUT (INITIAL)
	PP VEHICLE TRAFFIC CIRCULATION PATH

SURVEY DATA

TOPOGRAPHY SURVEY CENTENNIAL LAND SURVEYING, LLC. SEE SURVEY FOR ESTABLISHED CONTROL. THE FOLLOWING COORDINATE SYSTEM AND DATUM RECORD IS AS FOLLOWS:

HORIZONTAL DATUM: HORIZONTAL COORDINATES ARE MODIFIED COLORADO STATE PLANE CENTRAL BASED UPON THE FOLLOWING: COORDINATES ARE SCALED FROM CONTROL POINT 5052 BEING A 2-INCH ALUMINUM CAP STAMPED AZTEC CP 52 SET AT THE TOP OF A DIRT BANK ALONG THE EAST SIDE OF GLEN EAGLE DR. APPROXIMATELY 380+ FEET NORTHERLY OF ST. LAWRENCE WAY. VALUES ARE BASED UPON A STATIC SURVEY SESSION WITH THE FOLLOWING RESULTS:

LATITUDE: 39-04-05916N; LONGITUDE: 104-49-24.82486 W

STATE PLANE NORTHING: 1,450,401.759; STATE PLANE EASTING: 3,192,049.712

SCALE FACTOR: 1.0004063250

TRUNCATE NORTHING: 1,000,000.00; TRUNCATE EASTING: 3,000,000.00

PROJECT NORTHING: 450,401.759; PROJECT EASTING: 192,049.712

VERTICAL DATUM: NAVD 88 WITH GEOID G18US; BENCHMARK: CP 5052 EL: 7213.70

BENCHMARK: NGS CS110/DM9842 EL: 6843.25; BENCHMARK: NGS S294/KK0272 EL: 7116.72

70% DESIGN



VICINITY MAP
N.T.S.



<p>PRE-EXCAVATION CHECKLIST</p> <ul style="list-style-type: none"> <input type="checkbox"/> Gas and Other Utility Lines Shown on Construction Plans <input type="checkbox"/> Utility Notification Center of Colorado (UNCC)-Call at Least Two (2) Business Days Ahead-1-800-922-1987 <input type="checkbox"/> Utilities Located & Marked on the Ground <input type="checkbox"/> Employees Briefed on Marking and Color Codes* <input type="checkbox"/> Employees Trained on Excavation and Safety Procedures for Natural Gas Lines <input type="checkbox"/> When Excavation Approaches Gas Lines, Employees Must Expose Lines by Careful Probing and Hand-Digging 	<p>COLOR CODE FOR MARKING UNDERGROUND UTILITY LINES</p> <table border="1"> <tr> <td>WHITE</td> <td>PROPOSED EXCAVATION</td> </tr> <tr> <td>MAGENTA</td> <td>TEMPORARY SURVEY MARKINGS</td> </tr> <tr> <td>RED</td> <td>ELECTRIC</td> </tr> <tr> <td>YELLOW</td> <td>GAS, OIL, STEAM</td> </tr> <tr> <td>ORANGE</td> <td>COMMUNICATION, CATV</td> </tr> <tr> <td>BLUE</td> <td>POTABLE WATER</td> </tr> <tr> <td>PURPLE</td> <td>IRRIGATION, RECLAIMED WATER, SLURRY LINES</td> </tr> <tr> <td>GREEN</td> <td>SEWER</td> </tr> </table> <p style="text-align: center;"> Always Call Before You Dig 811 or (800) 922-1987</p>	WHITE	PROPOSED EXCAVATION	MAGENTA	TEMPORARY SURVEY MARKINGS	RED	ELECTRIC	YELLOW	GAS, OIL, STEAM	ORANGE	COMMUNICATION, CATV	BLUE	POTABLE WATER	PURPLE	IRRIGATION, RECLAIMED WATER, SLURRY LINES	GREEN	SEWER
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GREEN	SEWER																

JDS-HYDRO a Division of **RESPEC**
5540 TECH CENTER DR., SUITE 100
COLORADO SPRINGS, COLORADO 80919
(719) 227-0072

THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATION AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY TRIVIEW METROPOLITAN DISTRICT DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY OTHER FEDERAL OR STATE ACCESSIBILITY LAWS OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.

SHEET INDEX

SHEET NUMBER	DESCRIPTION	SHEET NUMBER	DESCRIPTION
	COVER SHEET		
GENERAL			
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G3	VICINITY MAP	A2	ARCHITECTURAL ROOF PLAN
G4	PPD	A3	EAST & WEST BUILDING ELEVATIONS
		A4	NORTH & SOUTH BUILDING ELEVATIONS
		A5	ARCHITECTURAL SECTIONS
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CIVIL			
C1	OVERALL SITE PLAN	PROCESS	
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C7	LANDSCAPE PLAN	MECHANICAL	
C8	LANDSCAPE DETAILS	M-001	LEGENDS AND ABBREVIATIONS
C9	LANDSCAPE DETAILS	M-002	SCHEDULES
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C11	CIVIL DETAILS	M-101	HVAC PLAN
C12	CIVIL DETAILS	M-601	HVAC DETAILS & DIAGRAMS
C13	CIVIL DETAILS	ELECTRICAL	
C14	CIVIL DETAILS	E1	SYMBOLS LEGEND & SCHEDULES
STRUCTURAL			
S1	STRUCTURAL NOTES	E2	ELECTRICAL POWER PLAN
S2	STRUCTURAL SECTIONS	E3	ELECTRICAL LIGHTING PLAN
S3	STRUCTURAL FLOOR PLAN	E4	ONE-LINE DIAGRAM & PANEL SCHEDULES
S4	STRUCTURAL ANCHOR PLAN	E5	ELECTRICAL CONCRETE EMBEDDED CONDUIT PLAN
S5	STRUCTURAL DETAILS		
S6	STRUCTURAL DETAILS		
S7	STRUCTURAL DETAILS		

PARTICIPANTS

<p>OWNER</p> <p>TRIVIEW METROPOLITAN DISTRICT 16055 OLD FOREST POINT STE 302 MONUMENT, CO 80132 CONTACT: JIM MCGRADY PHONE: (719) 488-6868</p>	<p>CONSULTING/DESIGN ENGINEER</p> <p>JDS-HYDRO CONSULTANTS, A DIVISION OF RESPEC 5540 TECH CENTER DR STE 100 COLORADO SPRINGS, CO 80919 CONTACT: GWEN DALL, PE PHONE: (719) 402-0014</p>	<p>DRAINAGE ENGINEER</p> <p>RESPEC 121 S TEJON ST STE 1110 COLORADO SPRINGS, CO 80903 CONTACT: RICH GALLEGOS, PE PHONE: (719) 266-5212</p>
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SIGNATURE BLOCKS

DISTRICT APPROVALS

THE TRIVIEW METROPOLITAN DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN. THE TRIVIEW METROPOLITAN DISTRICT HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

TRIVIEW METROPOLITAN DISTRICT DESIGN APPROVAL

BY: JIM MCGRADY, DISTRICT MANAGER _____ DATE: _____

PROJ NO. W0224.21029

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT, THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE. APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL.

ENGINEER'S STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE APPLICABLE GOVERNING AGENCIES.

MARIO DIPASQUALE, P.E. #41667 _____ DATE _____ PROJECT NO. W224.21029
JDS-HYDRO CONSULTANTS, A DIVISION OF RESPEC

PCD FILE NO. _____

2022/09/20 10:48 AM By: Alexis (Lexi) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\00_Cover\22429_COVER.dwg

TRIVIEW METRO DISTRICT GENERAL NOTES:

1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED THE SITE WORK STANDARDS AND SPECIFICATIONS, THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE TRIVIEW METROPOLITAN DISTRICT DESIGN CRITERIA & CONSTRUCTION SPECIFICATIONS, AND APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS SHALL BE INSPECTED AND APPROVED BY TRIVIEW METROPOLITAN DISTRICT. THE DISTRICTS WILL ALSO INSPECT ALL WORK ON PRIVATE PROPERTY.
2. THE TRIVIEW METROPOLITAN DISTRICT DESIGN CRITERIA & CONSTRUCTION SPECIFICATIONS MANUALS ARE CONSIDERED PART OF THIS CONSTRUCTION DRAWING SET. THIS DESIGN AND PLAN SET IS INCOMPLETE WITHOUT THESE SPECIFICATIONS MANUALS. THE CONTRACTOR SHALL OBTAIN A COPY OF THESE MANUALS AND BE FAMILIAR WITH THEM FOR ALL CONSTRUCTION ACTIVITIES.
3. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ACTUAL CONSTRUCTION. ALL EXISTING UTILITIES SHOWN ARE BASED ON INFORMATION OF RECORD. THE CONTRACTOR IS RESPONSIBLE FOR TAKING PRECAUTIONARY MEASURES TO PROTECT THE EXISTING UTILITIES SHOWN HEREON AND ANY OTHER EXISTING UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS AND AGREES TO ACCEPT FULL RESPONSIBILITY FOR FAILURE TO LOCATE AND PRESERVE ANY EXISTING UTILITIES. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE TRIVIEW METROPOLITAN DISTRICT AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH THE MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE TRIVIEW METROPOLITAN DISTRICT INSPECTORS AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.
6. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ALL PERMITS NEEDED FOR THE JOB, ON-SITE AT ALL TIMES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
8. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND THE TRIVIEW METROPOLITAN DISTRICT INSPECTORS IMMEDIATELY.
9. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
10. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH M.U.T.C.D. TO THE TOWN OF MONUMENT FOR APPROVAL, PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN, OR AFFECTING, THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.
11. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, OR CONSTRUCTED, UNLESS SPECIFICALLY NOTED OTHERWISE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON THE SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE, WHICH SHALL BE AVAILABLE TO THE TRIVIEW METROPOLITAN DISTRICT INSPECTORS AT ALL TIMES. A REPRODUCIBLE SET OF AS-BUILT DRAWINGS MUST BE FURNISHED TO TRIVIEW METROPOLITAN DISTRICT AT THE COMPLETION OF THE PROJECT, PRIOR TO FINAL APPROVAL BY THE TRIVIEW METROPOLITAN DISTRICT.
14. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE ENGINEER-OF-RECORD FOR CLARIFICATION, AND ANNOTATE THE DIMENSION ON THE AS-BUILT RECORD DRAWINGS.
15. ALL STRUCTURAL EROSION CONTROL MEASUREMENTS SHALL BE INSTALLED, AT THE LIMITS OF CONSTRUCTION, PRIOR TO ANY OTHER GROUND DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BE THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.

16. THE CONTRACTOR SHALL SEQUENCE THE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND DRY UTILITIES.
17. NO SITE-RELATED IMPROVEMENTS MAY COMMENCE UNTIL A PRE-CONSTRUCTION MEETING IS HELD WITH THE TRIVIEW METROPOLITAN DISTRICT AND ALL APPLICABLE PERMITS ARE OBTAINED.
18. THE CONTRACTOR MUST IDENTIFY TO THE TRIVIEW METROPOLITAN DISTRICT, PRIOR TO THE START OF ANY WORK, A QUALIFIED PLAN PERSON RESPONSIBLE FOR REVIEWING AND MONITORING ALL OPERATIONS IN ORDER TO PREVENT OR MINIMIZE THE IMPACT OF VIBRATION, NOISE, DUST, DRAINAGE, AND EROSION DAMAGE, AND OTHER FORMS OF POLLUTION ON NEARBY PROPERTY AND THE PUBLIC AS A WHOLE. THE DEVELOPER MUST WRITE TO THE OWNERS/OCCUPANTS OF PROPERTIES WITHIN AT LEAST 100 YARDS OF THE LIMITS OF THE WORKSITE, INFORMING THEM OF THE NATURE AND TIMING OF THE PROJECT AND PROVIDING CONTACT DETAILS FOR COMPLAINTS.

GENERAL CONSTRUCTION NOTES:

1. THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING IMPROVEMENTS TO BE MET BY THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION. ANY SIGNIFICANT DISCREPANCIES FOUND BETWEEN THIS PLAN SET AND ACTUAL FIELD CONDITIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD FOR APPROPRIATE ACTION.
2. THE CONTRACTOR IS ADVISED THAT ALL EXISTING CONDITIONS OUTSIDE THE AREA OF WORK SHALL BE PROTECTED, IF DAMAGE OCCURS DURING CONSTRUCTION, IT WILL BE REPLACED IN THE ORIGINAL, EXISTING CONDITION AT THE CONTRACTOR'S EXPENSE.
3. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND ROUTING DURING CONSTRUCTION, IF REQUIRED. TWO-WAY TRAFFIC SHALL BE MAINTAINED THROUGH THE WORK AREA AT ALL TIMES.
4. ALL DISTURBED AREAS THAT ARE TO REMAIN UNCOVERED FOR A PERIOD GREATER THAN 2 MONTHS SHALL BE RESEED AND WATERED UNTIL STABLE VEGETATION IS ESTABLISHED.
5. AT LEAST ONE SIGNED AND STAMPED SET OF THESE CONSTRUCTION DRAWINGS SHALL BE KEPT ON-SITE AT ALL TIMES.
6. ALL PLANS ON THE JOB SITE SHALL BE SIGNED BY THE TRIVIEW METROPOLITAN DISTRICT, AND THE DISTRICTS' ENGINEERS. ANY REVISION OF THE PLANS SHALL BE SO NOTED, WITH THE OLD DRAWINGS MARKED NOT VALID.
7. ALL STATIONING IS CENTER LINE UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE CENTER LINE UNLESS OTHERWISE NOTED.
8. ALL BURIED DUCTILE IRON PIPE, INCLUDING FITTINGS, VALVES AND FIRE HYDRANTS, SHALL BE WRAPPED WITH POLYETHYLENE TUBING, DOUBLE BONDED AT EACH JOINT AND ELECTRICALLY ISOLATED.
9. ALL DUCTILE IRON PIPE LESS THAN 12 INCHES AND FITTINGS SHALL HAVE CATHODIC PROTECTION USING TWO NO. 6 WIRE WITH 17 LB. MAGNESIUM ANODES EVERY 400 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING.
10. ALL MAIN LINES (PVC & DUCTILE IRON) SHALL BE INSTALLED WITH TRACER WIRE WITH TEST STATIONS EVERY 500 FT (UNLESS VALVE BOXES CAN BE USED AT INTERSECTIONS AND SERVICE STUBS).
11. ALL PIPE MATERIAL, BACKFILL AND INSTALLATION SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS, COLORADO DEPARTMENT OF TRANSPORTATION, EL PASO COUNTY DEPARTMENT OF TRANSPORTATION, COLORADO SPRINGS UTILITIES AND THE GEOTECHNICAL ENGINEER.
12. 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 AGENCY 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 TRIVIEW METROPOLITAN DISTRICT FOR REVIEW AND APPROVAL.
13. ALL BENDS SHALL BE STAKED PRIOR TO THE START OF CONSTRUCTION.
14. ALL UNUSED SALVAGED WATER UTILITY MATERIAL SHALL BE RETURNED TO THE TRIVIEW METROPOLITAN DISTRICT AS REQUESTED.
15. AT THE CONTRACTOR'S EXPENSE ALL UTILITY MAINS SHALL BE SUPPORTED AND PROTECTED SUCH THAT THEY 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 THE METROPOLITAN DISTRICTS AT FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR/DEVELOPER.
16. 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.
17. ALL CONTRACTORS WORKING ON OR NEAR A WATER OR SEWER FACILITY (TO INCLUDE SERVICE LINES) SHALL HAVE LIABILITY INSURANCE NAMING THE TRIVIEW METROPOLITAN DISTRICT AS ADDITIONAL INSURERS AND SHALL PROVIDE A CURRENT COPY OF WORKERS COMPENSATION INSURANCE ON FILE WITH THE DISTRICTS. NO WORK CAN PROCEED WITHOUT CURRENT CERTIFICATES ON FILE AT THE DISTRICT OFFICE.

18. THE CONTRACTOR SHALL NOTIFY THE TRIVIEW METROPOLITAN DISTRICT (488-6868), 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 ENGINEERS AND ALL OTHER PARTIES AS DEEMED NECESSARY BY THE DISTRICTS.

19. COMMENCEMENT OF CONSTRUCTION OF WATER/SEWER SYSTEMS WITHIN DISTRICTS:

- 19.1. PRIOR TO THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING IS REQUIRED A MINIMUM OF 48 HOURS IN ADVANCE OF COMMENCEMENT OF WORK. A REPRESENTATIVE OF THE OWNER OR DEVELOPER, A REPRESENTATIVE OF THE CONTRACTOR, AND THE DESIGN ENGINEER ARE REQUIRED TO ATTEND. CONTACT THE TRIVIEW METROPOLITAN DISTRICT (488-6868) TO SCHEDULE THE PRE-CONSTRUCTION MEETING. NO PRE-CONSTRUCTION MEETING CAN BE SCHEDULED UNTIL THREE (3) SIGNED/APPROVED PLAN SETS ARE RECEIVED BY THE METROPOLITAN DISTRICTS.
- 19.2. THE CONTRACTOR IS REQUIRED TO NOTIFY THE TRIVIEW METROPOLITAN DISTRICT (488-6868) 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.

20. PRESSURE TESTING OF FACILITIES:

- 20.1. THE CONTRACTOR SHALL NOTIFY THE TRIVIEW METROPOLITAN DISTRICT (488-6868) A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF ANY TESTING.
- 20.2. ALL SECTIONS OF WATER LINE ARE TO MEET THE FOLLOWING PRESSURE TESTING REQUIREMENTS
 - 20.2.1. TEST 100% OF ALL LINES.
 - 20.2.2. MUST PASS PRESSURE TEST TO 200 PSI FOR TWO HOURS (UNLESS OTHERWISE APPROVED ON THE PLANS)

21. DISINFECTION OF FACILITIES:

- 21.1. THE CONTRACTOR SHALL DISINFECT ALL DOMESTIC WATERLINES ACCORDING TO AWWA STANDARDS B-300 AND C-601, INCLUDING PRELIMINARY FLUSHING, CHLORINATION, AND FINAL FLUSHING.
- 21.2. THE CONTRACTOR SHALL COLLECT SAMPLES FROM END OF PIPELINE AFTER FINAL FLUSHING AND PRIOR TO PLACING WATERLINES IN SERVICE AND TEST FOR COLIFORM ORGANISMS. THE NUMBER AND FREQUENCY OF SAMPLES SHALL CONFORM WITH THE REQUIREMENTS OF THE PUBLIC HEALTH AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL PAY FOR THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO PERFORM SAMPLING AND TESTING AS REQUIRED.
- 21.3. REPEAT DISINFECTION UNTIL SATISFACTORY SAMPLES HAVE BEEN OBTAINED IF INITIAL OR SUBSEQUENT DISINFECTION FAILS TO PRODUCE SATISFACTORY SAMPLES.

22. COMMENCEMENT OF USE OF WATER LINES AND/OR SYSTEMS:

- 22.1. NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL AFTER THE COMPLETION OF ALL PRESSURE TESTING, FLUSHING, DISINFECTION, BAC-T TESTING, AND COMPACTION TESTING, AND UNTIL AS-BUILT DRAWINGS ARE SUBMITTED AND APPROVED BY THE DISTRICT.
- 22.2. 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 THE USE OF THE FACILITY.
- 22.3. NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL ALL EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED BY THE DISTRICTS, AND RECORDED.

23. ALL WATER LINES SHALL HAVE "AS BUILT" PLANS PREPARED AND APPROVED PRIOR TO PRELIMINARY ACCEPTANCE BY THE DISTRICT.

24. SUBSURFACE UTILITY ENGINEERING

- 24.1. UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEER'S DOCUMENT ASCE 38, "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
- 24.2. RELIANCE UPON THESE DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING EXCAVATION. IT IS IMPORTANT THAT THE CONTRACTOR INVESTIGATES AND UNDERSTANDS THE SCOPE OF WORK BETWEEN THE PROJECT OWNER AND THEIR ENGINEER REGARDING THE SCOPE AND LIMITS OF THE UTILITY INVESTIGATIONS LEADING TO THESE UTILITY DEPICTIONS.

JDS-HYDRO a Division of **RESPEC**
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 COLORADO SPRINGS, COLORADO 80919
 (719) 227-0072
DISCLAIMER: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO. A DIVISION OF RESPEC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

TRIVIEW METROPOLITAN DISTRICT
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
GENERAL NOTES

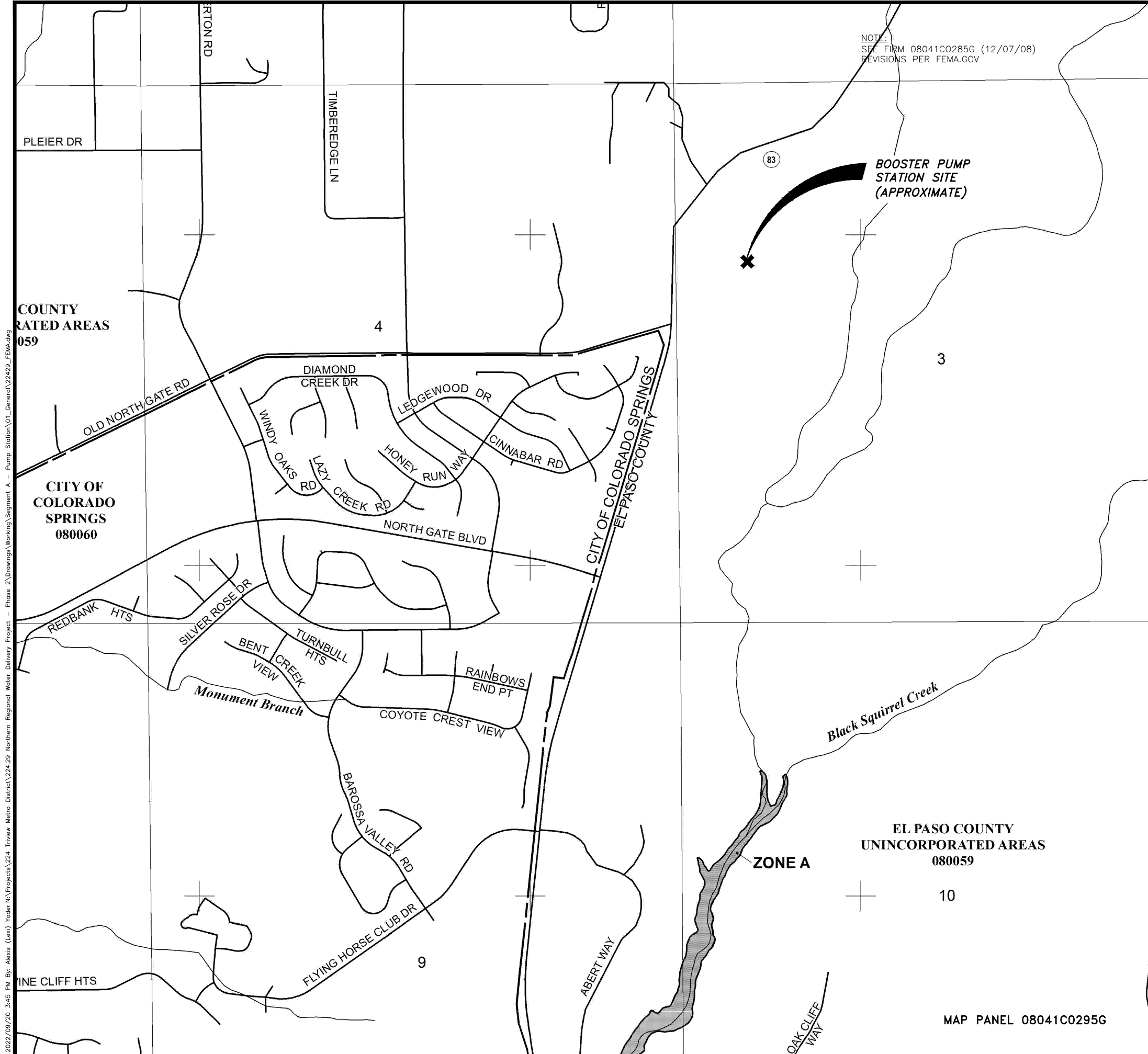
NO.	REVISIONS		DATE
	DESCRIPTION	BY APP.	
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70% DESIGN

Project No.: W224.21029
 Date: 09/12/22
 Design: MLD
 Drawn: AMY
 Check: MLD

G1

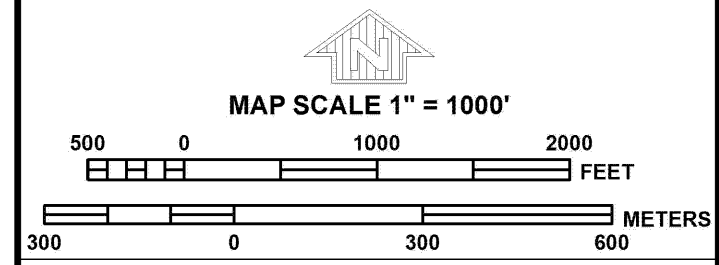
SHEET ----OF



NOTE:
SEE FIRM 08041C0285G (12/07/08)
REVISIONS PER FEMA.GOV

LEGEND

- SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
 - Floodplain boundary
 - Floodway boundary
 - FLOODWAY AREAS IN ZONE AE
- The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood
- CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.



NFP

PANEL 0295G

FIRM
FLOOD INSURANCE RATE MAP
EL PASO COUNTY,
COLORADO
AND INCORPORATED AREAS

PANEL 295 OF 1300
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
COLORADO SPRINGS, CITY OF	080060	0295	G
EL PASO COUNTY	080059	0295	G

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
08041C0295G

MAP REVISED
DECEMBER 7, 2018

Federal Emergency Management Agency

JDS-HYDRO a Division of **RESPEC**
 5540 TECH CENTER DR., SUITE 100
 COLORADO SPRINGS, COLORADO 80919
 (719) 227-0072
DISCLAIMER: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO, A DIVISION OF RESPEC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

TRIVIEW METROPOLITAN DISTRICT
 NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
 FEMA FLOODPLAIN MAP

NO.	DESCRIPTION	BY	APP.	DATE
1				
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70% DESIGN

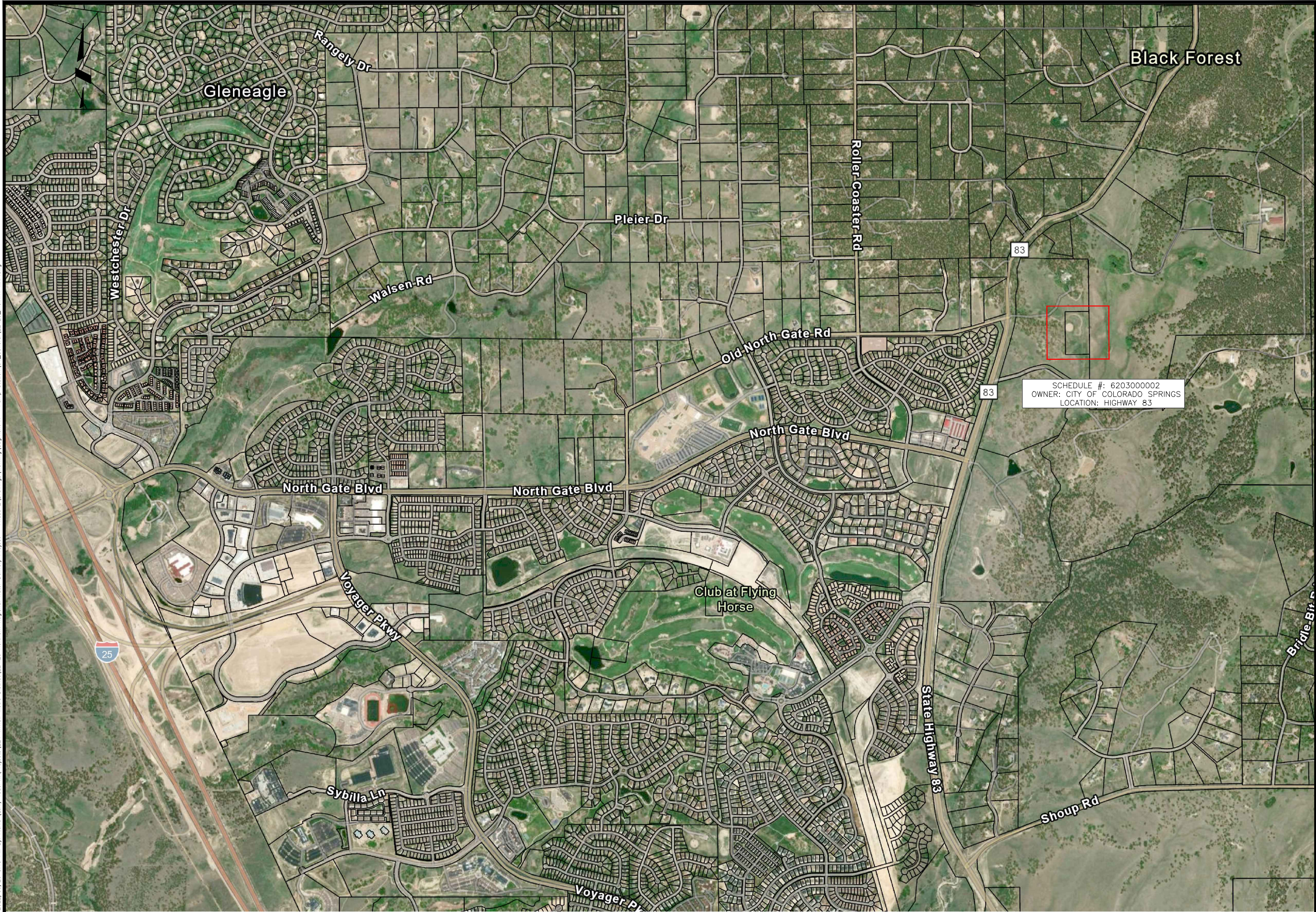
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 Date: 09/12/22
 Design: MLD
 Drawn: AMY
 Check: MLD

G2

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2022/09/20 3:45 PM By: Alexis (Lex) Yoder N:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\01_General\22429_FEMA.dwg

2022/09/20 3:45 PM By: Alexis (Lex) Yoder NA\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\01_General\22429_VICINITY_MAP.dwg



JDS-HYDRO CONSULTANTS, INC.
 5540 TECH CENTER DR, SUITE 100
 COLORADO SPRINGS, COLORADO 80919
 (719) 227-0072

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TRIVIEW METROPOLITAN DISTRICT
 NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
 VICINITY MAP

NO.	DESCRIPTION	BY	APP.	DATE
1				
2				
3				
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5				
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7				

70% DESIGN

Project No.: W224.21029
 Date: 09/12/22
 Design: MLD
 Drawn: AMY
 Check: MLD

G3
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A101
CHLORINE RESIDUAL
ANALYZER
AMPEROMETRIC
NO REAGENTS REQUIRED
CLT10SC

F101
ELECTROMAGNETIC
FLOW METER 8"
BADGER M-2000

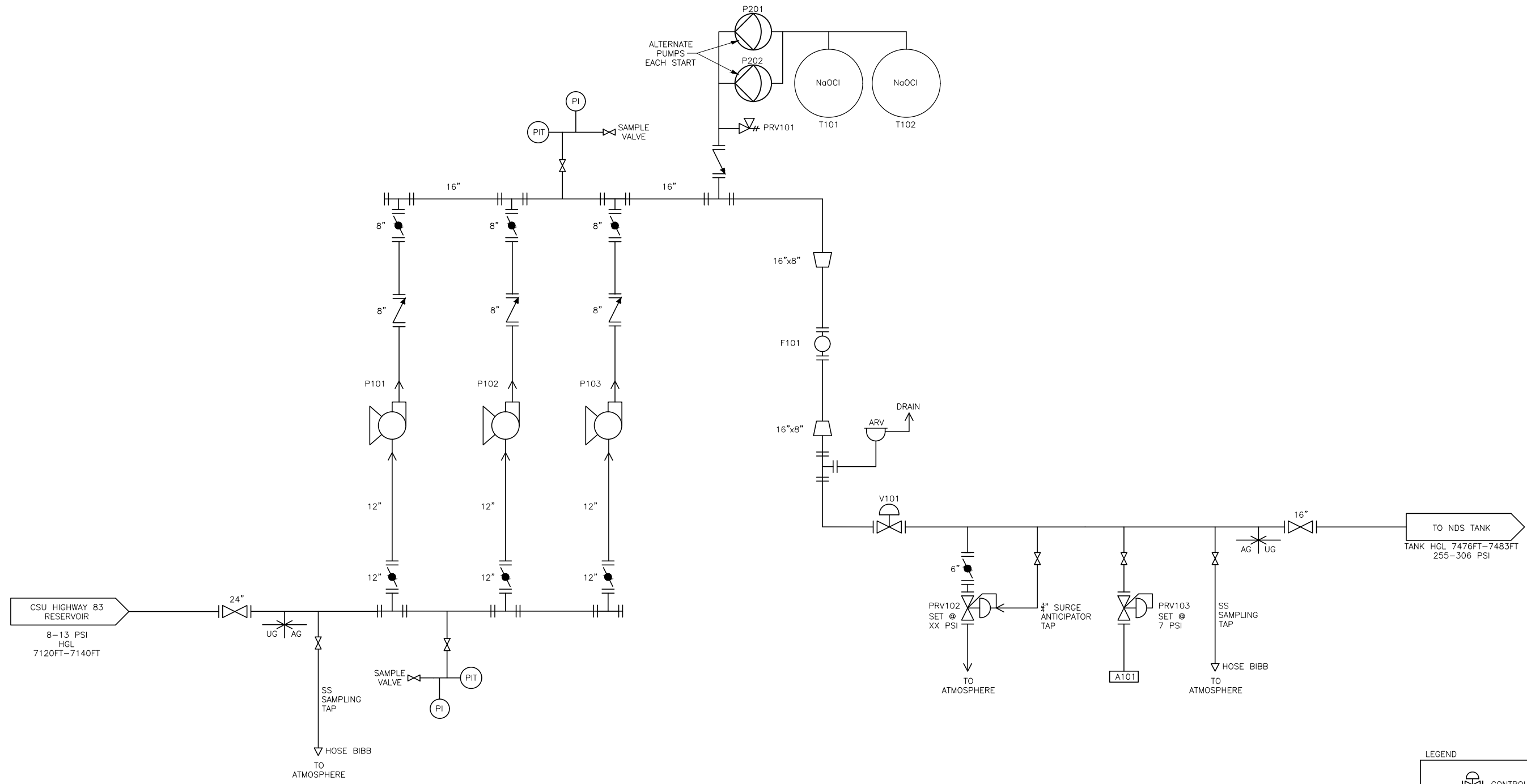
T101_102
CHLORINE STORAGE TANK
HIGH-DENSITY CROSS-LINKED
POLYETHYLENE (XLPE)
DOUBLE WALLED
250 GALLON

P101_102_103
8-STAGE VERTICAL TURBINE
PEERLESS 15MA/LC
350 HP
TDH: 590 FT
FLOWRATE: 1500 GPM
460V, 390A
1770 RPM

P201_202
PERISTALTIC PUMP
M324-SNDR
0.67 GPH

PRV102
SURGE VALVE
6" CLA-VAL 52-03

V101
ELECTRICAL CONTROL VALVE
WORKING PRESSURE: 175 PSI
LEAD FREE
16" CLA-VAL 131-66



NOTE: ALL PARTS IN CONTACT WITH POTABLE WATER TO BE STAINLESS STEEL, PVC ON NSF-61 APPROVED AND LEAD FREE

LEGEND

	CONTROL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	GATE VALVE

JDS-HYDRO a Division of **RESPEC**
5540 TECH CENTER DR., SUITE 100
COLORADO SPRINGS, COLORADO 80919
(719) 227-0072
DISCLAIMER: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO, A DIVISION OF RESPEC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

TRIVIEW METROPOLITAN DISTRICT
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
PROCESS FLOW DIAGRAM

NO.	DESCRIPTION	BY	APP.	DATE
1				
2				
3				
4				
5				
6				
7				

70% DESIGN

Project No.: W224.21029
Date: 09/12/22
Design: MLD
Drawn: AMY
Check: MLD

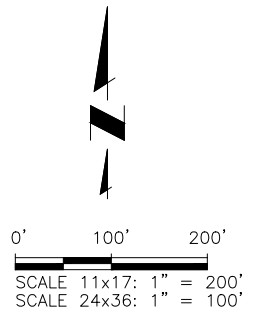
G4
SHEET --- OF

- NOTES:**
1. THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATION AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY OTHER FEDERAL OR STATE ACCESSIBILITY LAWS OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.
 2. FEMA 100-YR FLOODPLAIN NOT WITHIN SITE BOUNDARIES.
 3. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND MANY NOT BE ALL INCLUSIVE. CONTRACTOR TO VERIFY.
 4. SEE GEC DRAWINGS FOR GRADING AND EROSION CONTROL DETAILS.

LEGAL DESCRIPTION:

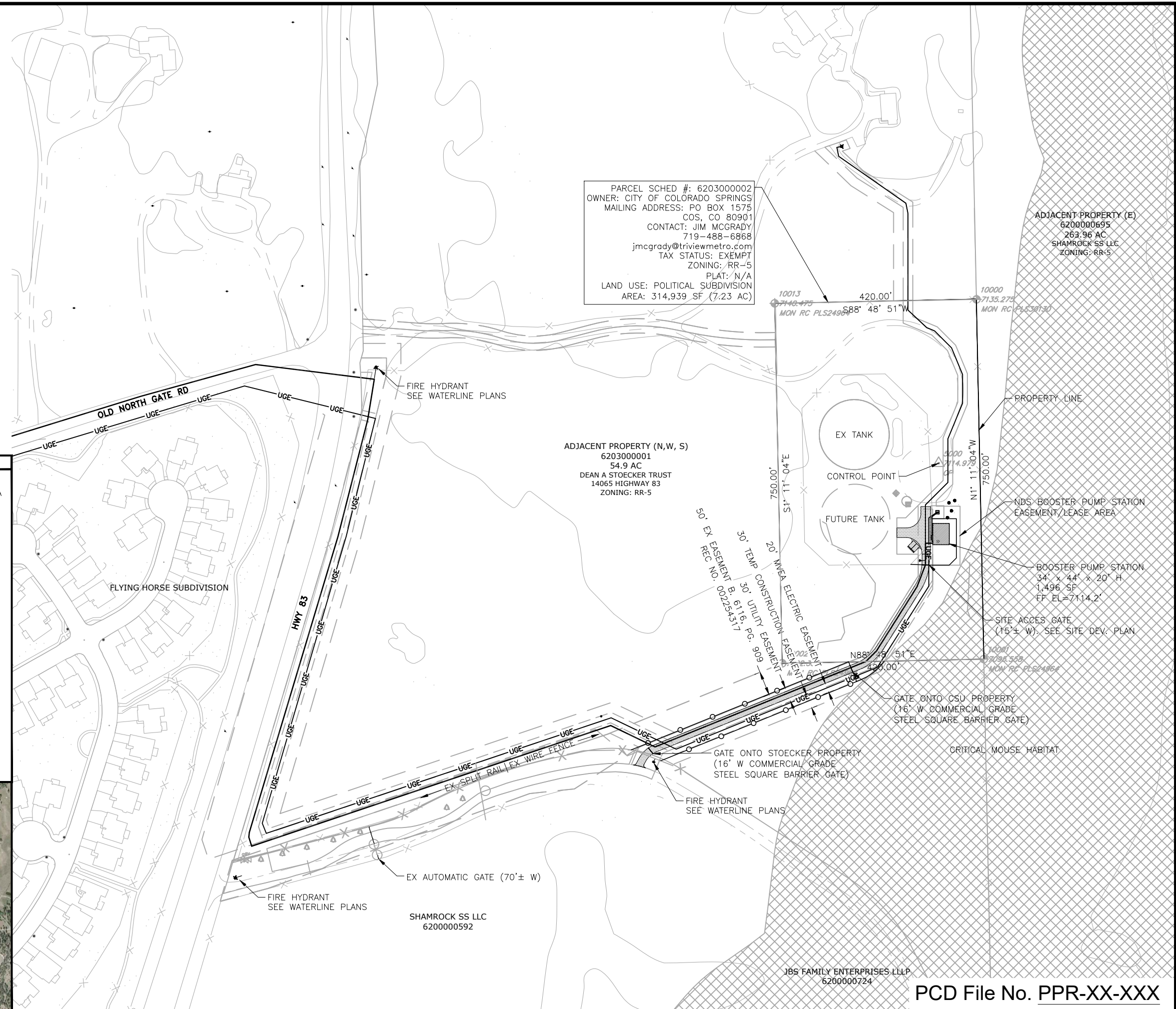
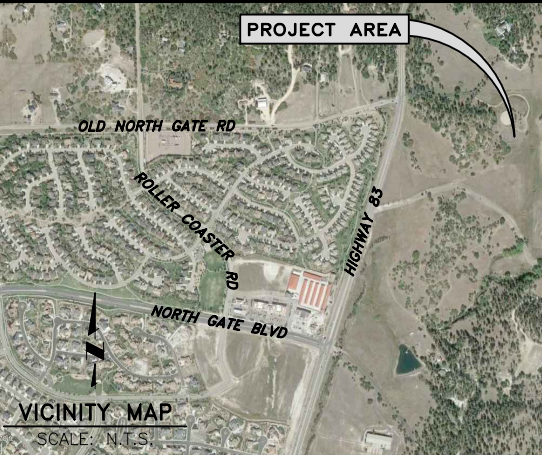
PROPERTY
 TR OF LAND IN SEC 03-12-66 DESC AS FOLS: COM AT SW COR OF SD SEC 3, TH N 00°52'30" W 2644.43 FT TO W4 COR OF SEC 3, S 89°24'29" E 1317.41 FT TO NE COR OF NW4SW4 OF SEC 3 FOR POB, TH S 00°49'41" E 350.25 FT, S 89°10'19" W 420.0 FT, N 00°49'38" W 750.0 FT, N 89°10'19" E 420.0 FT, S 00°49'31" E 399.75 FT TO POB

EASEMENT/LEASE AGREEMENT AREA
 TO BE DETERMINED



LEGEND

	PROPERTY LINE
	EASEMENT/LEASE AGREEMENT AREA
	EX FENCE
	EX WATER LINE
	EX UG ELECTRIC LINE
	EX ELEC POWER POLE
	EX FIRE HYDRANT
	EX TREE (SIZE VARIES)
	EX CONTOURS-MAJOR
	EX CONTOURS-MINOR
	PP CONTOURS-MAJOR
	PP CONTOURS-MINOR
	PP UG ELECTRIC LINE
	PP WATER LINE
	PP FIRE HYDRANT
	PP FENCE (BARBED WIRE)
	PP FENCE (SPLIT RAIL)
	PP STAGING AREA (INITIAL)
	PP CONCRETE WASHOUT (INITIAL)
	PP VEHICLE TRAFFIC CIRCULATION PATH



PARCEL SCHED #: 620300002
 OWNER: CITY OF COLORADO SPRINGS
 MAILING ADDRESS: PO BOX 1575
 COS, CO 80901
 CONTACT: JIM MCGRADY
 719-488-6868
 jmcgrady@triviewmetro.com
 TAX STATUS: EXEMPT
 ZONING: RR-5
 PLAT: N/A
 LAND USE: POLITICAL SUBDIVISION
 AREA: 314,939 SF (7.23 AC)

ADJACENT PROPERTY (E)
 6200000695
 263.96 AC
 SHAMROCK SS LLC
 ZONING: RR-5

ADJACENT PROPERTY (N,W, S)
 620300001
 54.9 AC
 DEAN A STOECKER TRUST
 14065 HIGHWAY 83
 ZONING: RR-5

BOOSTER PUMP STATION
 34' x 44' x 20' H
 1,496 SF
 FF EL=7114.2'

JDS-HYDRO a Division of **RESPEC**
 5540 TECH CENTER DR., SUITE 100
 COLORADO SPRINGS, COLORADO 80919
 (719) 227-0072

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TRIVIEW METROPOLITAN DISTRICT
 NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
 OVERALL SITE PLAN

NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			
6			
7			

70% DESIGN

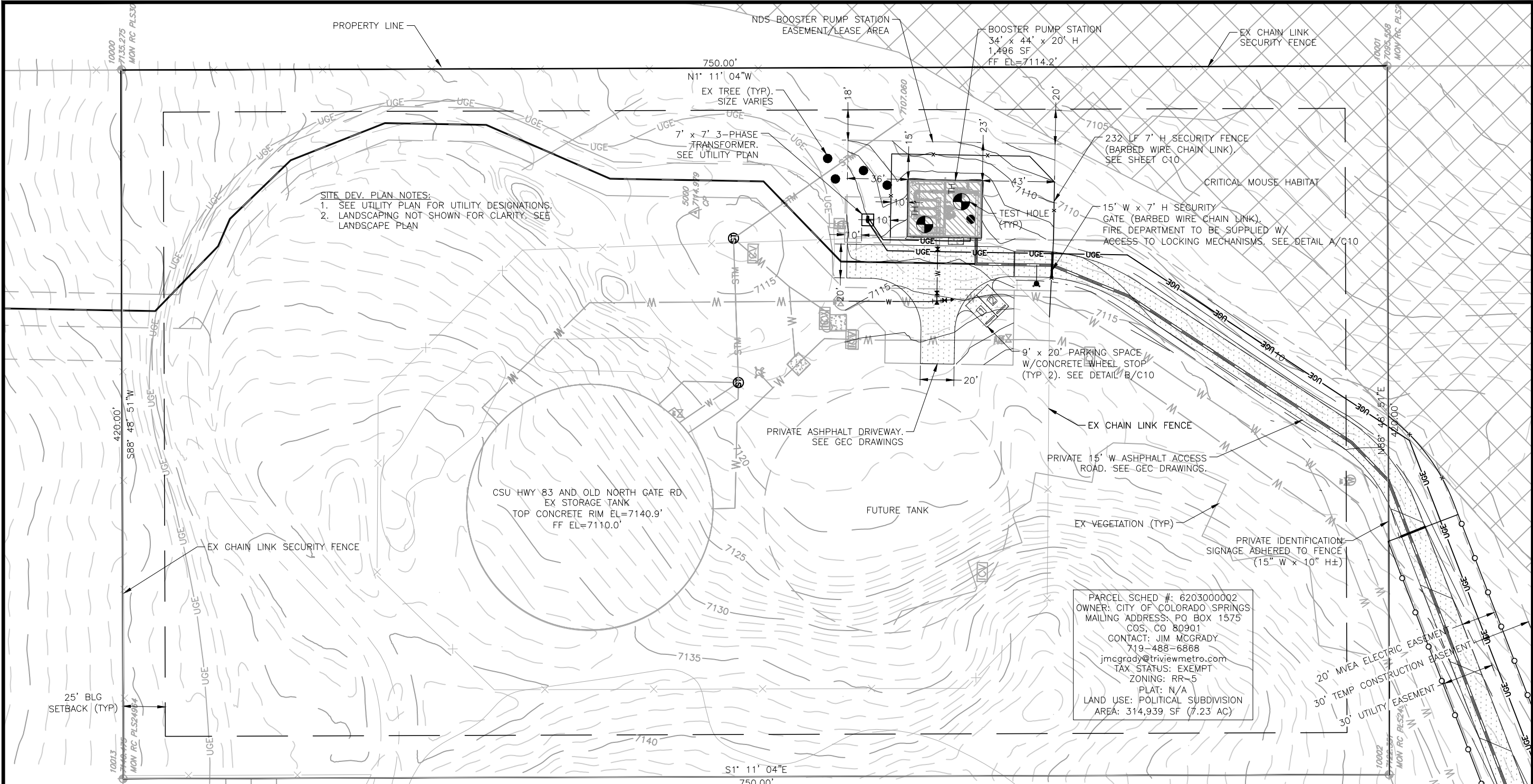
Project No.: W224.21029
 Date: 09/12/22
 Design: MLD
 Drawn: GGM
 Check: MLD

C1
 SHEET --- OF ---

PCD File No. PPR-XX-XXX

2022/09/20 3:46 PM By: Alexis (Lex) Yoder NA\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\02_Civil\22429_Civil_PS.dwg

2022/09/20 3:47 PM By: Alexis (Lead) Yoder NA\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\02_Civil\22429_Civil_PS.dwg



SITE DEV. PLAN NOTES:
 1. SEE UTILITY PLAN FOR UTILITY DESIGNATIONS.
 2. LANDSCAPING NOT SHOWN FOR CLARITY. SEE LANDSCAPE PLAN

PARCEL SCHED #: 6203000002
 OWNER: CITY OF COLORADO SPRINGS
 MAILING ADDRESS: PO BOX 1575
 COS, CO 80901
 CONTACT: JIM MCGRADY
 719-488-6888
 jimcgrady@triviewmetro.com
 TAX STATUS: EXEMPT
 ZONING: RR-5
 PLAT: N/A
 LAND USE: POLITICAL SUBDIVISION
 AREA: 314,939 SF (7.23 AC)

LEGAL DESCRIPTION:

PROPERTY
 TR OF LAND IN SEC 03-12-66 DESC AS FOLS: COM AT SW COR OF SD SEC 3, TH N 00°52'30" W 2644.43 FT TO W4 COR OF SEC 3, S 89°24'29" E 1317.41 FT TO NE COR OF NW4SW4 OF SEC 3 FOR POB, TH S 00°49'41" E 350.25 FT, S 89°10'19" W 420.0 FT, N 00°49'38" W 750.0 FT, N 89°10'19" E 420.0 FT, S 00°49'31" E 399.75 FT TO POB

EASEMENT/LEASE AGREEMENT AREA TO BE DETERMINED

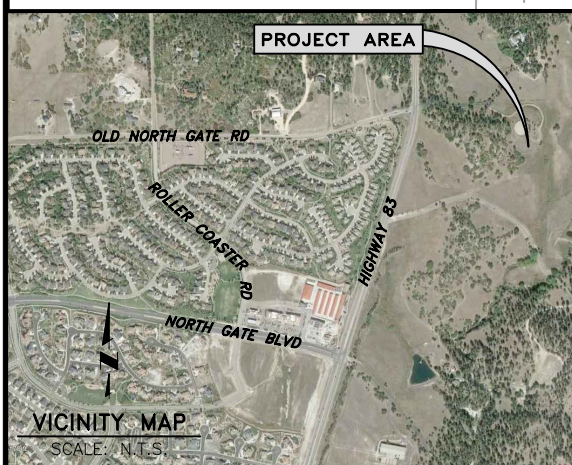
NOTES:

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- SEE GEC DRAWINGS FOR GRADING AND EROSION CONTROL DETAILS.
- SEE OVERALL SITE PLAN FOR ADJACENT PROPERTY OWNERSHIP.

PARKING COVERAGE:				
USE	RATIO	REQUIRED	PROVIDED	ADA
INDUSTRIAL	1 PER 750 SF	2	2	N/A

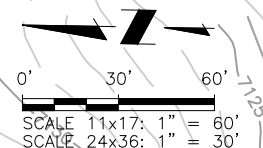
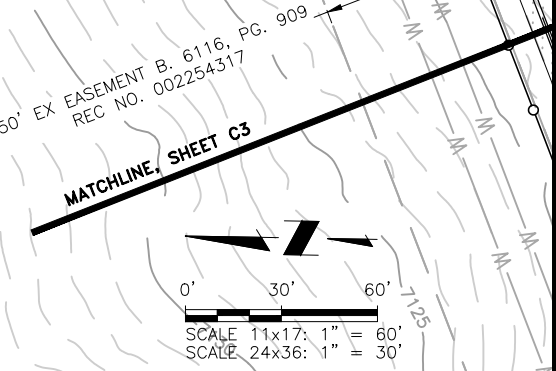
COVERAGE:		
PARCEL (REDUCED)	SF	%
STRUCTURES (PUMP STATION, TANKS)	0	0.00%
DRIVEWAY, PARKING, PADS	0	0.00%
LANDSCAPED AREA INCL. DISTURBED RE-SEED (PHASE 2)	0	0.00%
UNDISTURBED	0	0.00%
DENSITY	0	0.00%

APPLICANT/PLAN PREPARER:
 JDS-HYDRO CONSULTANTS,
 A DIVISION OF RESPEC
 CONTACT: MARIO DIPASQUALE, P.E.
 719-227-0072
 mdipasquale@jds-hydro.com



LEGEND

	PROPERTY LINE		7385	PP CONTOURS-MAJOR
	EASEMENT/LEASE AGREEMENT AREA		7386	PP CONTOURS-MINOR
	EX FENCE		UGE	PP UG ELECTRIC LINE
	EX WATER LINE		PP	PP WATER LINE
	EX UG ELECTRIC LINE		PP	PP FIRE HYDRANT
	EX OH ELECTRIC LINE		PP	PP FENCE (BARBED WIRE)
	EX TELEPHONE LINE		PP	PP FENCE (SPLIT RAIL)
	EX ELEC POWER POLE		PP	PP STAGING AREA (INITIAL)
	EX FIRE HYDRANT		PP	PP CONCRETE WASHOUT (INITIAL)
	EX TREE (SIZE VARIES)		PP	PP VEHICLE TRAFFIC CIRCULATION PATH
	EX CONTOURS-MAJOR			
	EX CONTOURS-MINOR			



PCD File No. PPR-XX-XXX

JDS-HYDRO a Division of **RESPEC**
 5540 TECH CENTER DR., SUITE 100
 COLORADO SPRINGS, COLORADO 80919
 (719) 227-0072

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TRIVIEW METROPOLITAN DISTRICT
 NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
 SITE DEVELOPMENT PLAN AND ACCESS ROAD

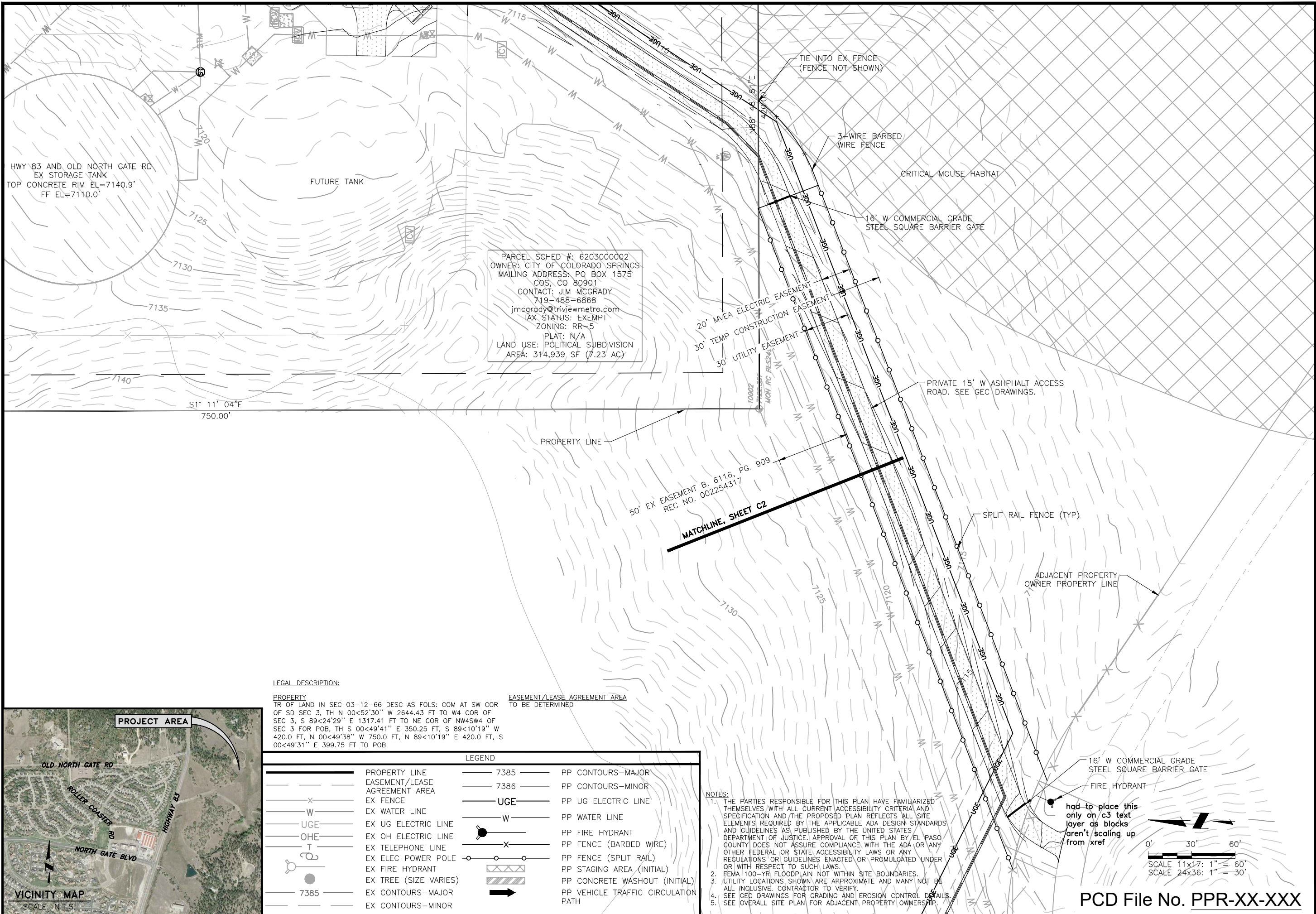
NO.	DESCRIPTION	BY	APP.	DATE
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70% DESIGN

Project No.: W224.21029
 Date: 09/12/22
 Design: MLD
 Drawn: GGM
 Check: MLD

C2
 SHEET --- OF ---

2022/09/20 3:48 PM By: Alexis (Lex) Yoder N:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\02_Civil\22429_Civil_PS.dwg



PARCEL SCHED #: 6203000002
 OWNER: CITY OF COLORADO SPRINGS
 MAILING ADDRESS: PO BOX 1575
 COS, CO 80901
 CONTACT: JIM MCGRADY
 719-488-6868
 jimcgrady@triviewmetro.com
 TAX STATUS: EXEMPT
 ZONING: RR-5
 PLAT: N/A
 LAND USE: POLITICAL SUBDIVISION
 AREA: 314,939 SF (7.23 AC)

LEGAL DESCRIPTION:

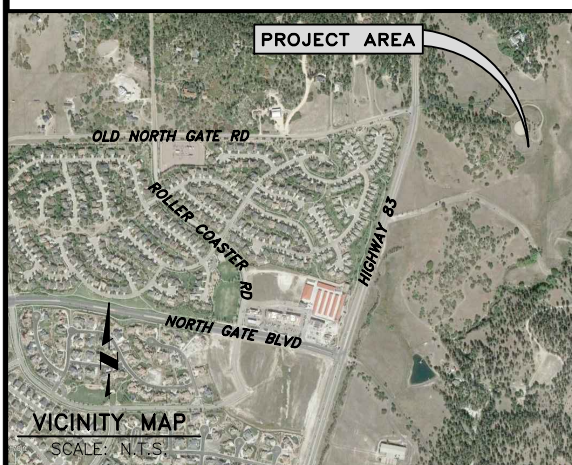
PROPERTY
 TR OF LAND IN SEC 03-12-66 DESC AS FOLS: COM AT SW COR OF SD SEC 3, TH N 00<52'30" W 2644.43 FT TO W4 COR OF SEC 3, S 89<24'29" E 1317.41 FT TO NE COR OF NW4SW4 OF SEC 3 FOR POB, TH S 00<49'41" E 350.25 FT, S 89<10'19" W 420.0 FT, N 00<49'38" W 750.0 FT, N 89<10'19" E 420.0 FT, S 00<49'31" E 399.75 FT TO POB

EASEMENT/LEASE AGREEMENT AREA TO BE DETERMINED

LEGEND	
	PROPERTY LINE
	EASEMENT/LEASE AGREEMENT AREA
	EX FENCE
	EX WATER LINE
	EX UG ELECTRIC LINE
	EX OH ELECTRIC LINE
	EX TELEPHONE LINE
	EX ELEC POWER POLE
	EX FIRE HYDRANT
	EX TREE (SIZE VARIES)
	EX CONTOURS-MAJOR
	EX CONTOURS-MINOR
	PP WATER LINE
	PP UG ELECTRIC LINE
	PP FIRE HYDRANT
	PP FENCE (BARBED WIRE)
	PP FENCE (SPLIT RAIL)
	PP STAGING AREA (INITIAL)
	PP CONCRETE WASHOUT (INITIAL)
	PP VEHICLE TRAFFIC CIRCULATION PATH

NOTES:

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- SEE GEC DRAWINGS FOR GRADING AND EROSION CONTROL DETAILS.
- SEE OVERALL SITE PLAN FOR ADJACENT PROPERTY OWNERSHIP.



JDS-HYDRO a Division of **RESPEC**
 5540 TECH CENTER DR, SUITE 100
 COLORADO SPRINGS, COLORADO 80919
 (719) 227-0072

TRIVIEW METROPOLITAN DISTRICT
 NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
 SITE DEVELOPMENT PLAN AND ACCESS ROAD

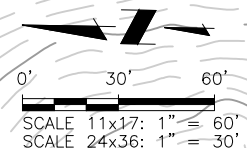
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70% DESIGN

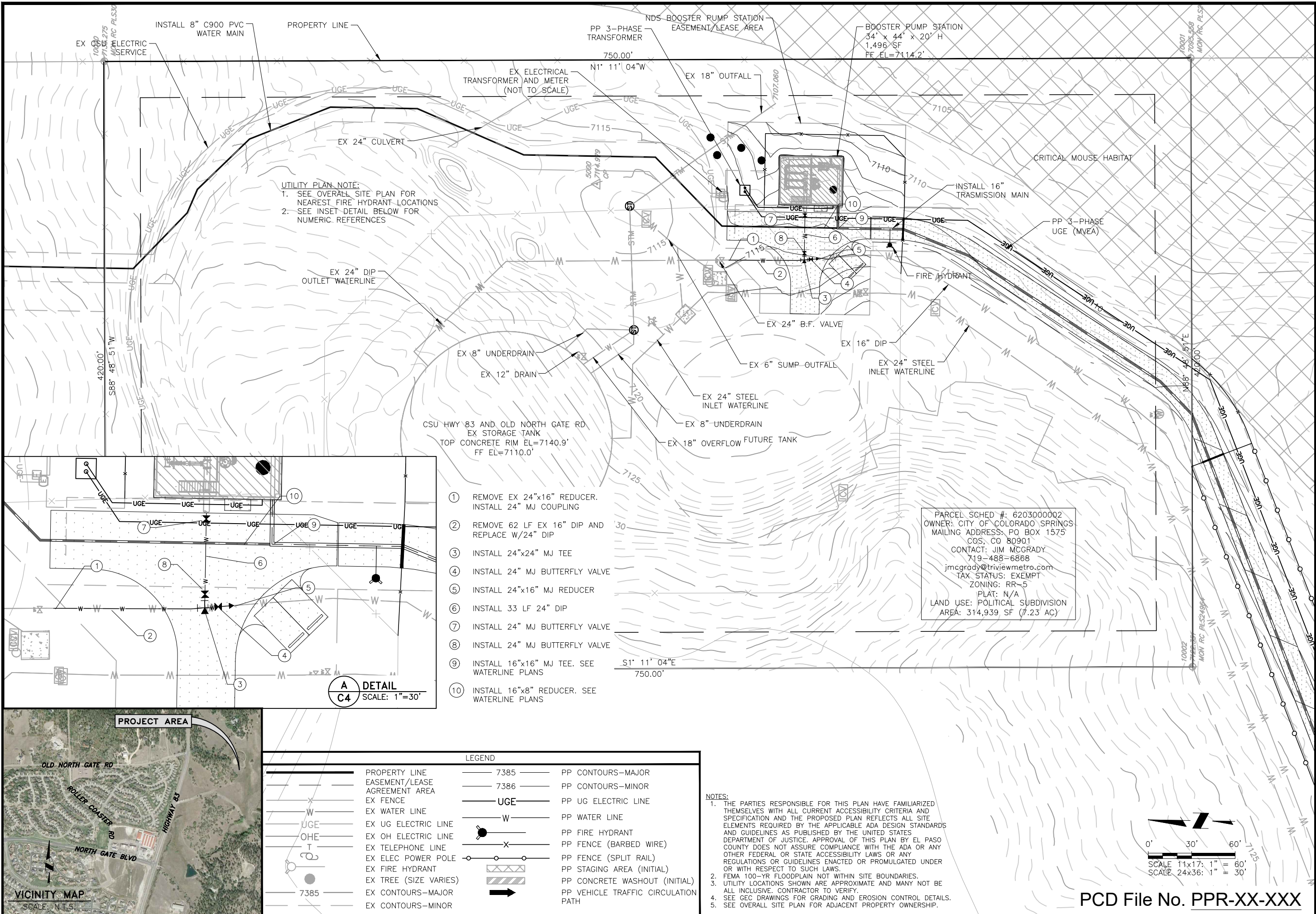
Project No.: W224.21029
 Date: 09/12/22
 Design: MLD
 Drawn: GGM
 Check: MLD

C3
 SHEET ---OF

PCD File No. PPR-XX-XXX



2022/09/20 3:50 PM By: Alexis (Lead) Yoder N:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\02_Civil\22429_Civil_PS.dwg

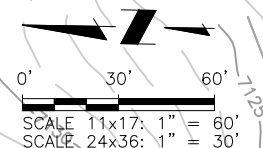
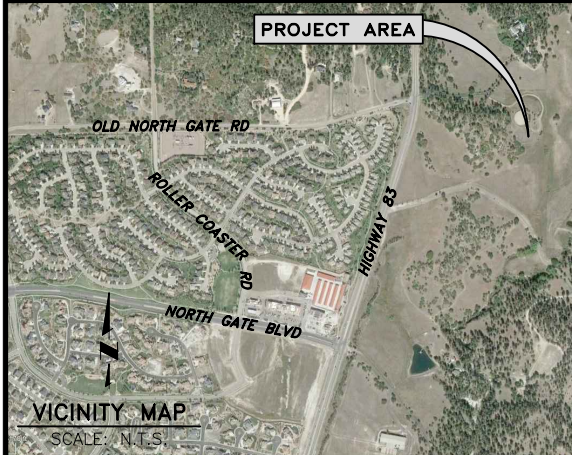


UTILITY PLAN NOTE:
 1. SEE OVERALL SITE PLAN FOR NEAREST FIRE HYDRANT LOCATIONS
 2. SEE INSET DETAIL BELOW FOR NUMERIC REFERENCES

- ① REMOVE EX 24"x16" REDUCER. INSTALL 24" MJ COUPLING
- ② REMOVE 62 LF EX 16" DIP AND REPLACE W/24" DIP
- ③ INSTALL 24"x24" MJ TEE
- ④ INSTALL 24" MJ BUTTERFLY VALVE
- ⑤ INSTALL 24"x16" MJ REDUCER
- ⑥ INSTALL 33 LF 24" DIP
- ⑦ INSTALL 24" MJ BUTTERFLY VALVE
- ⑧ INSTALL 24" MJ BUTTERFLY VALVE
- ⑨ INSTALL 16"x16" MJ TEE. SEE WATERLINE PLANS
- ⑩ INSTALL 16"x8" REDUCER. SEE WATERLINE PLANS

PARCEL SCHED #: 620300002
 OWNER: CITY OF COLORADO SPRINGS
 MAILING ADDRESS: PO BOX 1575
 COS, CO 80901
 CONTACT: JIM MCGRADY
 719-488-6888
 jimcgrady@triviewmetro.com
 TAX STATUS: EXEMPT
 ZONING: RR-5
 PLAT: N/A
 LAND USE: POLITICAL SUBDIVISION
 AREA: 314,939 SF (7.23 AC)

A DETAIL
C4 SCALE: 1"=30'



PCD File No. PPR-XX-XXX

JDS-HYDRO a Division of **RESPEC**
 5540 TECH CENTER DR., SUITE 100
 COLORADO SPRINGS, COLORADO 80919
 (719) 227-0072

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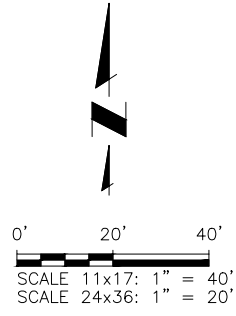
TRIVIEW METROPOLITAN DISTRICT
 NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
 UTILITY PLAN

NO.	DESCRIPTION	BY	APP.	DATE
1				
2				
3				
4				
5				
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7				

70% DESIGN

Project No.: W224.21029
 Date: 09/12/22
 Design: MLD
 Drawn: GGM
 Check: MLD

C4
 SHEET ---OF



- P E N D I N G -

JDS-HYDRO a Division of **RESPEC**
 5540 TECH CENTER DR., SUITE 100
 COLORADO SPRINGS, COLORADO 80919
 (719) 227-0072

DISCLAIMER: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO, A DIVISION OF RESPEC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

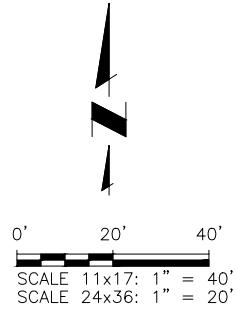
TRIVIEW METROPOLITAN DISTRICT
 NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
 WATERLINE INLET ALIGNMENT
 PLAN & PROFILE

REVISIONS			
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70% DESIGN

Project No.: W224.21029
 Date: 09/12/22
 Design: MLD
 Drawn: GGM
 Check: MLD

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- P E N D I N G -

JDS-HYDRO a Division of **RESPEC**
 5540 TECH CENTER DR., SUITE 100
 COLORADO SPRINGS, COLORADO 80919
 (719) 227-0072

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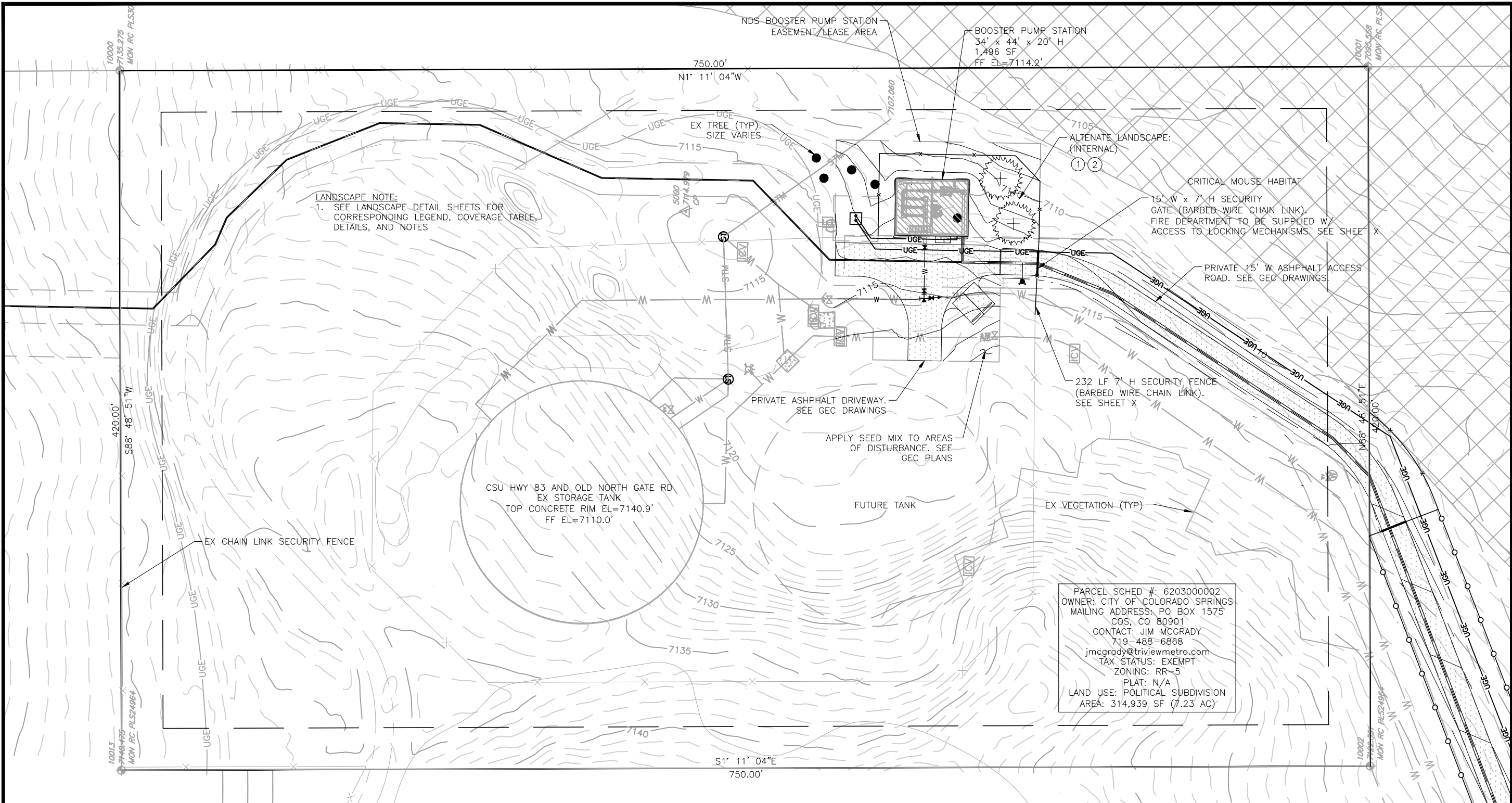
TRIVIEW METROPOLITAN DISTRICT
 NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
 WATERLINE OUTLET ALIGNMENT
 PLAN & PROFILE

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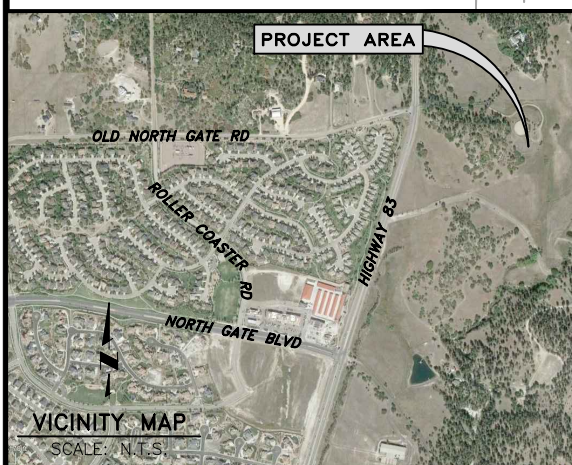
Project No.: W224.21029
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 Drawn: GGM
 Check: MLD

2022/09/20 3:51 PM By: Alexis (Lex) Yoder NA\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\02_Civil\22429_Civil_PS.dwg



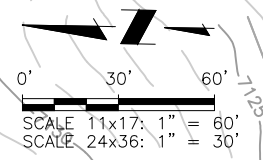
LANDSCAPE NOTE:
1. SEE LANDSCAPE DETAIL SHEETS FOR CORRESPONDING LEGEND, COVERAGE TABLE, DETAILS, AND NOTES

PARCEL SCHED #: 620300002
OWNER: CITY OF COLORADO SPRINGS
MAILING ADDRESS: PO BOX 1575
COS, CO 80901
CONTACT: JIM MCGRADY
719-488-6868
jmcgrady@triviewmetro.com
TAX STATUS: EXEMPT
ZONING: RR-5
PLAT: N/A
LAND USE: POLITICAL SUBDIVISION
AREA: 314,939 SF (7.23 AC)



LEGEND	
	PROPERTY LINE
	EASEMENT/LEASE AGREEMENT AREA
	EX FENCE
	EX WATER LINE
	EX UG ELECTRIC LINE
	EX OH ELECTRIC LINE
	EX TELEPHONE LINE
	EX ELEC POWER POLE
	EX FIRE HYDRANT
	EX TREE (SIZE VARIES)
	EX CONTOURS-MAJOR
	EX CONTOURS-MINOR
	PP CONTOURS-MAJOR
	PP CONTOURS-MINOR
	PP UG ELECTRIC LINE
	PP WATER LINE
	PP FIRE HYDRANT
	PP FENCE (BARBED WIRE)
	PP FENCE (SPLIT RAIL)
	PP STAGING AREA (INITIAL)
	PP CONCRETE WASHOUT (INITIAL)
	PP VEHICLE TRAFFIC CIRCULATION PATH

NOTES:
1. THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATION AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY OTHER FEDERAL OR STATE ACCESSIBILITY LAWS OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.
2. FEMA 100-YR FLOODPLAIN NOT WITHIN SITE BOUNDARIES.
3. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND MANY NOT BE ALL INCLUSIVE. CONTRACTOR TO VERIFY.
4. SEE GEC DRAWINGS FOR GRADING AND EROSION CONTROL DETAILS.
5. SEE OVERALL SITE PLAN FOR ADJACENT PROPERTY OWNERSHIP.



PCD File No. PPR-XX-XXX

JDS-HYDRO a Division of **RESPEC**
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TRIVIEW METROPOLITAN DISTRICT
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
LANDSCAPE PLAN

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ALTERNATE LANDSCAPE COVERAGE:	
SITE AREA/SF (SITE REDUCED)	0
ROADWAY	
HIGHWAY 83?, (RD CLASSIFICATION: X)	0 LF
FRONTAGE WIDTH REQUIRED/PROVIDED	0'/0'
NUMBER OF TREES REQUIRED @ 1/X LF/PROVIDED	0/0
SEED MIX AREA/SF	0
PARKING LOT	
	N/A
BUFFER & SCREEN AREAS	
	N/A
INTERNAL	
% MINIMUM INTERNAL AREA	0
INTERNAL AREA REQUIRED/PROVIDED	0/0
MIN. PLANT SIZES & PERCENTAGE OF LIVE GROUND COVER	
% GROUND COVER REQUIRED/PROVIDED (SEED MIX)	0/0
OTHER	
ZONING DISTRICT BOUNDARY TREES	N/A
% GROUND COVER REQUIRED/PROVIDED INTERNAL LANDSCAPE AREA	0/0

LANDSCAPE SCHEDULE -- XERIC/LOW WATER VEGETATION						
SYMBOL	BOTANICAL NAME	COMMON NAME	QTY	MATURE SIZE (HEIGHT x WIDTH)	PLANTING SIZE (MIN)	COMMENTS
	<i>EVERGREEN TREE</i>					
	PINUS PONDEROSA	PONDEROSA PINE	2	60'/100' x 25'	6' MIN. HEIGHT	MUST ARRIVE BALLED AND BURLAPPED. PRUNE TO SHAPE TREE AT EARLY GROWTH

LANDSCAPE KEY/DESCRIPTIONS	
①	TYP PLANTING REF: SHEET C9
②	LIVE GROUND COVER/SEED MIX REF: GEC SHEETS. SEED BLEND INSTALLED PER SUPPLIER'S SPECS. SUBMIT CUT SHEET FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. APPLY TO EXTENT OF SITE DISTURBED AREA

LANDSCAPING NOTES:

- PLANT QUANTITY AND SUBSTITUTION:** IN CASE OF DISCREPANCY IN PLANT QUANTITIES SHOWN ON THE PLANT TABLE AND THOSE SHOWN ON THE PLANTING PLAN, THE QUANTITIES SHOWN ON THE PLANTING PLAN SHALL GOVERN. THE MINIMUM ACCEPTABLE SIZES OF PLANTS MEASURED BEFORE PRUNING WITH BRANCHES IN NORMAL POSITION SHALL CONFORM TO THE PLANTING SIZES AS SPECIFIED IN THE SCHEDULE. ANY SUBSTITUTION OF PLANT SIZE OR SPECIES MUST BE SUBMITTED TO THE ENGINEER IN WRITING FOR APPROVAL PRIOR TO INSTALLATION.
 - ACCEPTABLE PLANT MATERIAL:** ALL PLANTS SHALL MEET OR EXCEED STANDARDS SET BY THE "COLORADO NURSERY ASSOCIATION," AND THE "AMERICAN STANDARD OF NURSERY STOCK." ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES, HEALTHY, FREE OF DISEASE, INSECT PESTS, MECHANICAL INJURIES, AND HAVE ADEQUATE ROOT SYSTEMS. ALL PLANTINGS SHALL BE INSTALLED PER PLANTING DETAILS. ALL PLANT MATERIAL SHALL BE INSPECTED BY THE ENGINEER OR OWNER PRIOR TO INSTALLATION. STAKING/CONTRACTOR INSPECTION NOTE: ALL PLANTING LOCATIONS TO BE STAKED AND INSPECTED BY CONTRACTOR PRIOR TO INSTALLATION. ALL PLANTS TO BE INSPECTED AT NURSERY LOCATION PRIOR TO TRANSPORTING TO THE SITE.
 - SITE DISTURBANCE:** ALL AREAS OF SITE DISTURBANCE DUE TO CONSTRUCTION SHALL BE RENOVATED OR PLANTED PER THIS PLAN UNLESS OTHERWISE NOTED. SITE-SPECIFIC LANDSCAPING SHALL AT A MINIMUM, INCLUDE REVEGETATION OF DISTURBED AREAS WITH MATERIALS INDIGENOUS TO THE SITE OR OTHERWISE ADAPTABLE (SEE LEFT KEY DESCRIPTIONS AND EROSION CONTROL NOTES SHEET FOR SEED MIX).
 - SOIL AMENDMENTS:** CONTRACTOR SHALL AMENDED PLANTING AREAS AS FOLLOWS:
 -ADD MINIMUM OF 3 CUBIC YARDS OF WELL-COMPOSTED AGED MANURE OR PREMIUM COMPOST PER 1000 S.F.
 -ALL AMENDED AREAS SHALL BE TILLED TO A DEPTH OF 6" PRIOR TO PLANTING.
 -3 CUBIC YARDS PER 1000 S.F. OF WELL-COMPOSTED AGED MANURE OR PREMIUM COMPOST.
 -ALL AMENDED AREAS SHALL BE TILLED TO A DEPTH OF 6" PRIOR TO PLANTING.
 - SEEDED TURF:** ALL SEEDED OR HYDROMULCHED AREAS SHALL DEMONSTRATE 95% GERMINATION PRIOR TO FINAL ACCEPTANCE.
 - IRRIGATION:** OWNER TO WATER FOR ONE TO TWO GROWING SEASONS UNTIL ESTABLISHED AND ON AN AS-NEEDED BASIS THEREAFTER. DISTURBED AREA SEED/GRASS MIXTURE MUST BE IRRIGATED BY OWNER UNTIL ESTABLISHED AND IN TIMES OF DROUGHT. THE ON-GOING MAINTENANCE OF THE NATIVE GRASS IS THE RESPONSIBILITY OF OWNER. AUTOMATED IRRIGATION SYSTEM SHALL DRIP IRRIGATE ALL TREE, SHRUB, AND GROUND COVER PLANTING AREAS AND SPRAY ANY TURF.
 - INORGANIC AND ORGANIC MULCH/FABRIC:** ALL PLANTINGS (INCLUDING THOSE IN ROCK MULCH AREAS) TO RECEIVE 3-INCH DEPTH OF SHREDDED CEDAR WOOD MULCH UNLESS OTHERWISE SPECIFIED. MULCH RINGS TO BE SIZED PER PLANTING DETAILS (15-INCH DIA. FOR (5) GALLON SHRUBS/GRASSES. WOOD MULCH TO BE "GORILLA HAIR CEDAR MULCH" AVAILABLE FROM C&C SAND CO. (719)471-7222 OR PIONEER SAND CO. (719)599-8100. SUBMIT PRODUCT INFOR. TO DESIGN ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. HIGH QUALITY COMMERCIAL-GRADE (SPUN-BONDED POLYPROPYLENE OR EQUAL) LANDSCAPING FABRIC SHALL BE APPLIED UNDER ALL ROCK BASES.
 - STEEL EDGE:** ALL EDGER SHALL BE ACME 4" PERFORATED STEEL EDGER "SELF COLORING" 14 GAUGE OR APPROVED EQUAL.
 - APPROVAL:** ANY FIELD CHANGES OR DEVIATIONS TO THESE PLANS WITHOUT PRIOR APPROVAL OF AN AMENDED DEVELOPMENT PLAN MAY RESULT IN A DELAY OF FINAL APPROVAL AND THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
 - FINAL TREE AND SHRUB LOCATIONS:** ALL TREE LOCATIONS SHALL BE STAKED FOR APPROVAL BY OWNER REPRESENTATIVE/ENGINEER PRIOR TO PLANTING. SHRUBS SHALL BE PLACED IN THEIR LOCATIONS PER THIS PLAN AND APPROVED BY OWNER REPRESENTATIVE/ENGINEER. THE FINAL LOCATION OF TREES TO BE PLANTED MAY REQUIRE ADJUSTMENT BASED ON APPROVAL OF THE FINAL UTILITIES PLANS AND ASSOCIATED FINAL PLAT AND EASEMENTS.
- ** BY APPROVING THIS PLAN, THE DIRECTOR IS ACKNOWLEDGING AN ALTERNATE LANDSCAPE DESIGN AS IT RELATES AND CONFORMS TO HOMELAND SECURITY STANDARDS AND PROMOTES WATER CONSERVATION WHILE MEETING THE PURPOSES DESCRIBED IN THE LAND DEVELOPMENT CODE.
- ** CONTRACTOR TO REFER TO ANY TOWN OF MONUMENT LANDSCAPE SPECIFICATIONS FOR SPECIFIC SOIL AMENDMENT AND PREPARATION FOR SOD, SEED AND PLANTING AREAS.

JDS-HYDRO a Division of **RESPEC**
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TRIVIEW METROPOLITAN DISTRICT
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
LANDSCAPE DETAILS

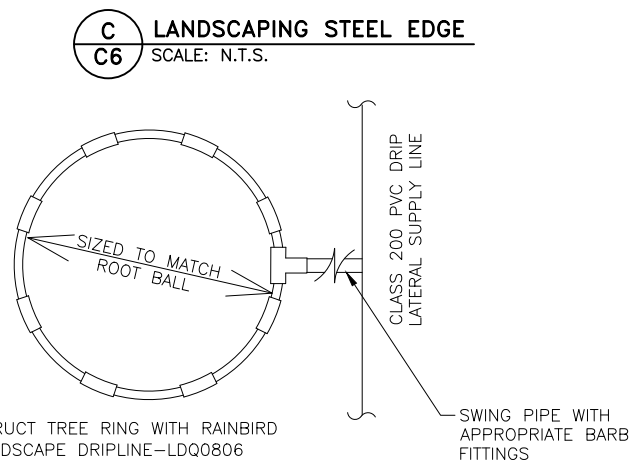
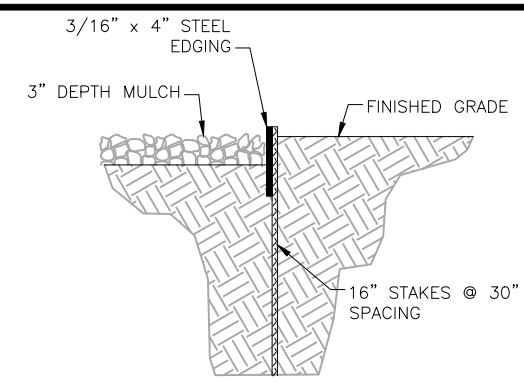
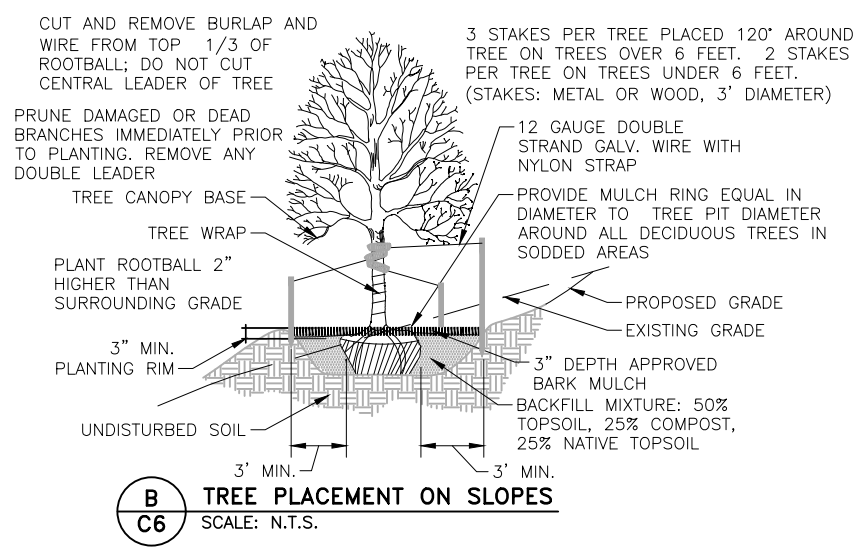
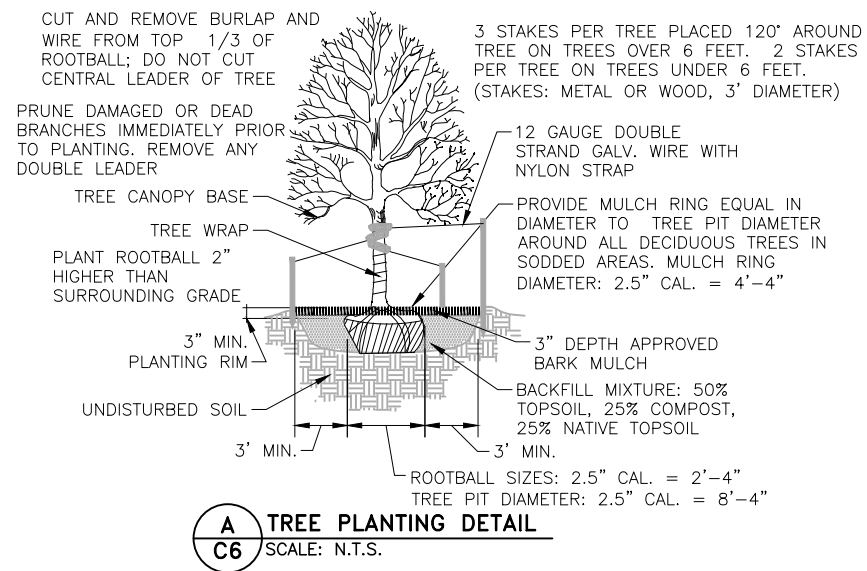
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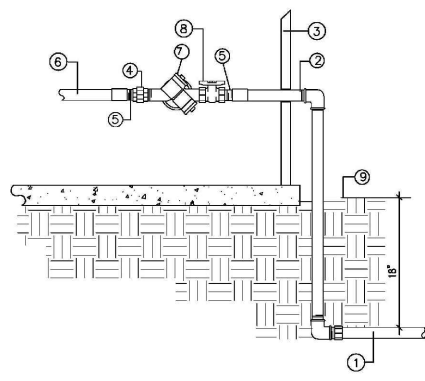
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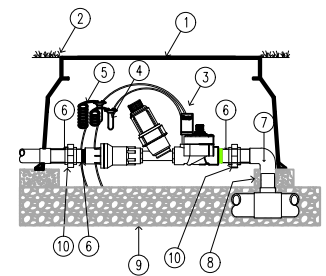
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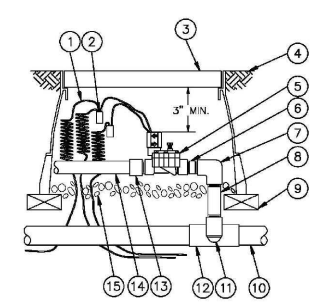
- ① PVC MAIN LINE
- ② CONNECTION TO COPPER STUB-OUT
- ③ BUILDING WALL
- ④ GALVANIZED UNION
- ⑤ GALVANIZED NIPPLE -3" LENGTH
- ⑥ MAIN LINE FROM WATER METER
- ⑦ REDUCED PRESSURE BACKFLOW PREVENTER OR APPROVED EQUAL
- ⑧ SHUT-OFF VALVE
- ⑨ FINISHED GRADE



- F AUTOMATIC DRIP VALVE & FILTER ASSEMBLY**
SCALE: N.T.S.
- ① JUMBO VALVE BOX
 - ② FINISHED GRADE



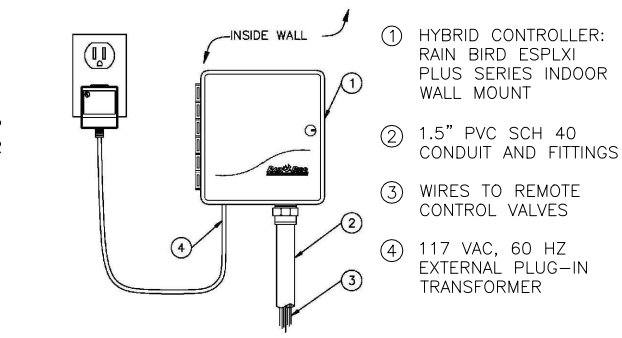
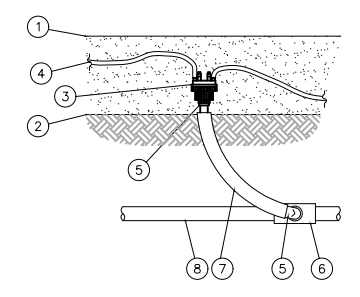
- LANDSCAPING NOTES:**
1. **PLANT QUANTITY AND SUBSTITUTION:** IN CASE OF DISCREPANCY IN PLANT QUANTITIES SHOWN ON THE PLANT TABLE AND THOSE SHOWN ON THE PLANTING PLAN, THE QUANTITIES SHOWN ON THE PLANTING PLAN SHALL GOVERN. THE MINIMUM ACCEPTABLE SIZES OF PLANTS MEASURED BEFORE PRUNING WITH BRANCHES IN NORMAL POSITION SHALL CONFORM TO THE PLANTING SIZES AS SPECIFIED IN THE SCHEDULE. ANY SUBSTITUTION OF PLANT SIZE OR SPECIES MUST BE SUBMITTED TO THE ENGINEER IN WRITING FOR APPROVAL PRIOR TO INSTALLATION.
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 4. **SOIL AMENDMENTS:** CONTRACTOR SHALL AMENDED PLANTING AREAS AS FOLLOWS:
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 - ALL AMENDED AREAS SHALL BE TILLED TO A DEPTH OF 6" PRIOR TO PLANTING.
 5. **SEEDING TURF:** ALL SEEDED OR HYDROMULCHED AREAS SHALL DEMONSTRATE 95% GERMINATION PRIOR TO FINAL ACCEPTANCE.
 6. **IRRIGATION:** OWNER TO HAND WATER FOR ONE TO TWO GROWING SEASONS UNTIL ESTABLISHED AND ON AN AS-NEEDED BASIS THEREAFTER. DISTURBED AREA SEED/GRASS MIXTURE MUST BE IRRIGATED BY OWNER UNTIL ESTABLISHED AND IN TIMES OF DROUGHT. THE ON-GOING MAINTENANCE OF THE NATIVE GRASS IS THE RESPONSIBILITY OF OWNER.
 7. **INORGANIC MULCH AND FABRIC:** ALL PLANTINGS TO RECEIVE 3-INCH DEPTH OF INORGANIC MULCH. MULCH RINGS TO BE 15-INCH DIA. FOR (5) GALLON SHRUBS/GRASSES (SEE DRAWING DETAILS). HIGH QUALITY COMMERCIAL-GRADE (SPUN-BONDED POLYPROPYLENE OR EQUAL) LANDSCAPING FABRIC SHALL BE APPLIED UNDER ALL ROCK BASES.
 8. **STEEL EDGE:** ALL EDGER SHALL BE ACME 4" PERFORATED STEEL EDGER "SELF COLORING" 14 GAUGE OR APPROVED EQUAL.
 9. **APPROVAL:** ANY FIELD CHANGES OR DEVIATIONS TO THESE PLANS WITHOUT PRIOR APPROVAL OF AN AMENDED DEVELOPMENT PLAN MAY RESULT IN A DELAY OF FINAL APPROVAL AND THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
 10. **FINAL TREE AND SHRUB LOCATIONS:** ALL TREE LOCATIONS SHALL BE STAKED FOR APPROVAL BY OWNER REPRESENTATIVE/ENGINEER PRIOR TO PLANTING. SHRUBS SHALL BE PLACED IN THEIR LOCATIONS PER THIS PLAN AND APPROVED BY OWNER REPRESENTATIVE/ENGINEER. THE FINAL LOCATION OF TREES TO BE PLANTED MAY REQUIRE ADJUSTMENT BASED ON APPROVAL OF THE FINAL UTILITIES PLANS AND ASSOCIATED FINAL PLAT AND EASEMENTS.
 11. **COMPLIANCE WITH PLANS:** THE COMPLETED LANDSCAPING SHALL COMPLY WITH THE APPROVED LANDSCAPE PLAN AND SHALL INCLUDE THE QUANTITIES, LOCATIONS, SPECIES AND SIZES OF PLANTS AND OTHER LANDSCAPE MATERIALS AS REPRESENTED ON THE APPROVED LANDSCAPE PLAN. SEEDED LANDSCAPE AREAS SHALL HAVE NO BARE AREAS LARGER THAN 6 SQUARE INCHES AFTER GERMINATION.
 12. **MAINTENANCE:**
 - A. THE OWNER IS RESPONSIBLE FOR ALL REGULAR AND NORMAL MAINTENANCE OF REQUIRED LANDSCAPING INCLUDING WEEDING, IRRIGATION, FERTILIZING, PRUNING AND MOWING.
 - B. REPLACEMENT OF DEAD, DISEASED OR SUBSTANTIALLY DAMAGED PLANT MATERIALS SHALL OCCUR WITHIN 6 MONTHS FROM WHEN THE PLANT MATERIAL DIED, OR WHEN THE INSPECTION DETERMINED THE PLANT MATERIAL WAS DEAD OR DAMAGED. REPLACEMENT SHALL BE OF THE SAME OR SIMILAR TYPE AS ORIGINALLY APPROVED. AN ALTERNATIVE TYPE OF SPECIES SHALL REQUIRE APPROVAL BY THE PCD DIRECTOR.
 - C. MAINTENANCE INSPECTIONS MAY BE PERFORMED PERIODICALLY. FAILURE TO MAINTAIN THE LANDSCAPING IN COMPLIANCE WITH THE APPROVAL IS CONSIDERED A ZONING VIOLATION.



- ① 30" LINEAR LENGTH OF WIRE, COILED
- ② WATERPROOF CONNECTION
- ③ VALVE BOX WITH COVER

- ④ FINISHED GRADE/TOP OF MULCH
- ⑤ REMOTE CONTROL VALVE: RAIN BIRD 100-DV
- ⑥ PVC SCH 80 NIPPLE (CLOSE)
- ⑦ PVC SCH 40 ELL
- ⑧ PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- ⑨ BRICK (1 OF 4)
- ⑩ PVC MAIN LINE PIPE SCHE 80 NIPPLE (2" LENGTH, HIDDEN) AND SCH 40 ELL
- ⑪ PVC SCH 40 TEE OR ELL
- ⑫ PVS CH 40 MALE ADAPTER
- ⑬ PVC LATERAL PIPE
- ⑭ 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL

- ① TOP OF MULCH
- ② FINISHED GRADE
- ③ MULTI-OUTLET XER-BUG RAIN BIRD XBT-10-6 CLIP OUTLETS AS NEEDED
- ④ DISTRIBUTION TUBING TO PLANT
- ⑤ 1/2" SPIRAL BARB TO MALE FITTING
- ⑥ PVC SCH 40 TEE OR ELL
- ⑦ SWING PIPE, LENGTH AS REQUIRED
- ⑧ CLASS 200 PVC LATERAL LINE



NOTES:
CONTROLLER SHALL BE MOUNTED SECURELY TO WALL USING APPROPRIATE FASTENERS FOR WALL TYPE. ALL EXPOSED CONDUIT SHALL BE E.M.T. OR EQUAL AND APPROVED BY LOCAL CODES. ALL CONDUIT CONNECTIONS SHALL BE MADE USING WATERTIGHT CONNECTORS

- ③ DRIP ZONE KIT MODEL PCZ-101-XX FILTER (TIP 45 DEGREES) REGULATOR 25 OR 40 PSI
- ④ WATERPROOF CONNECTORS (2)
- ⑤ 18-24" COILED WIRE
- ⑥ SCH 80 T.O.E. NIPPLE
- ⑦ MAIN LINE PIPE & FITTINGS
- ⑧ BRICK SUPPORTS (4)
- ⑨ 3/4" MINUS WASHED GRAVEL
- ⑩ PVC SLIP UNIONS

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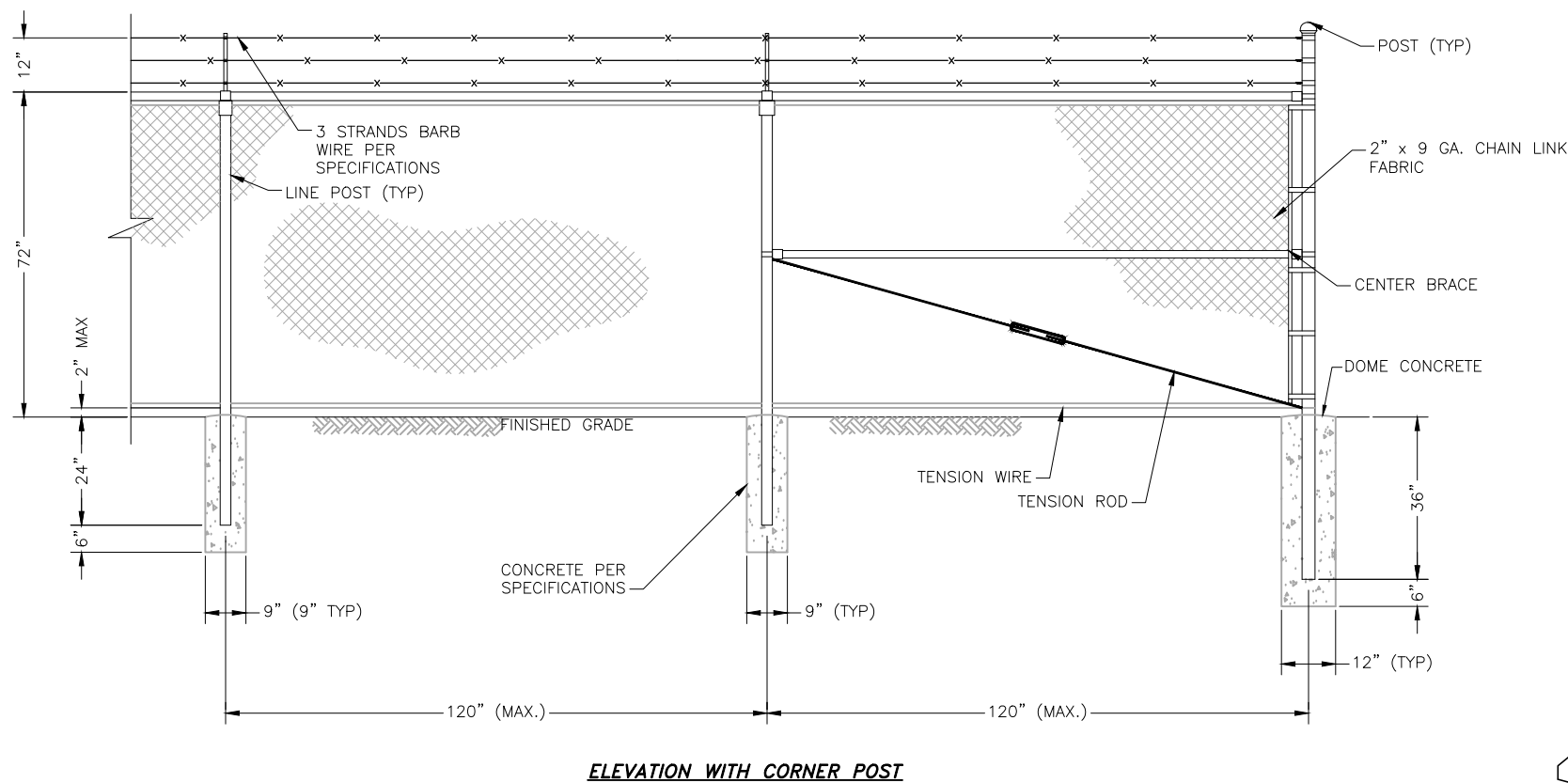
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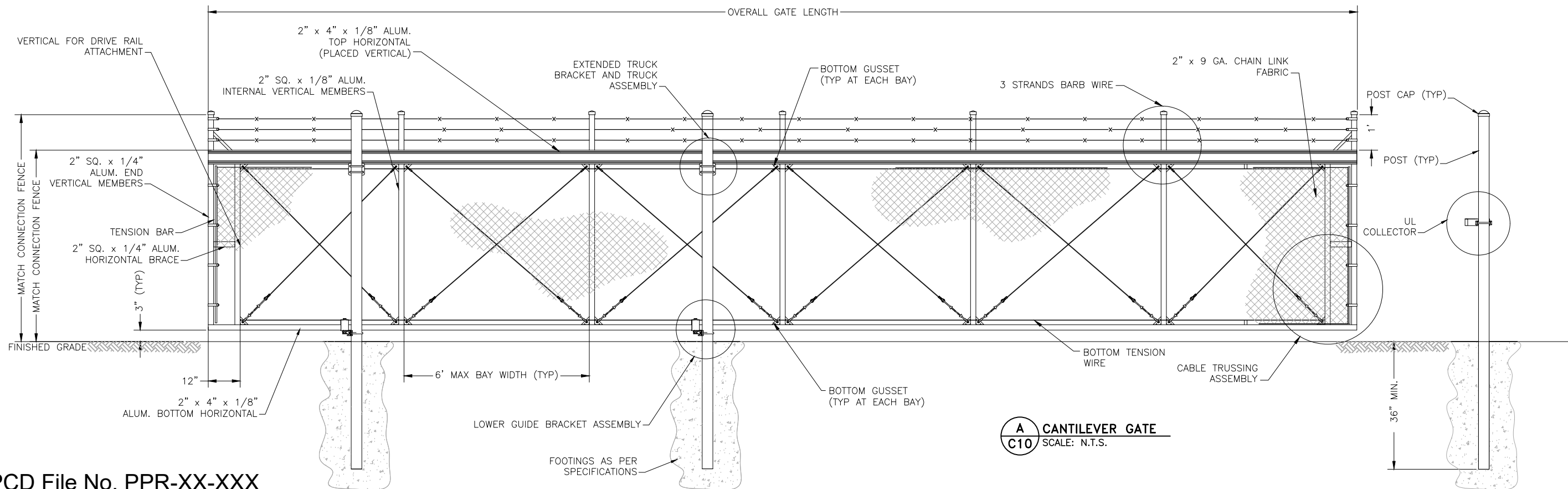
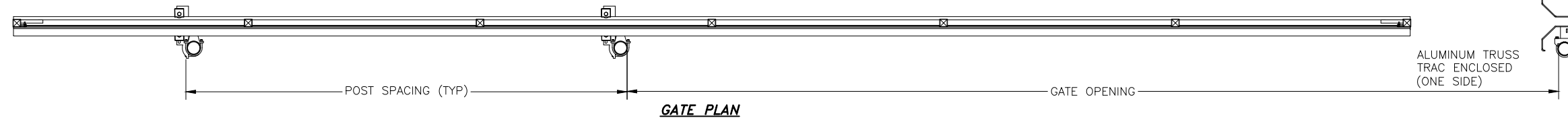
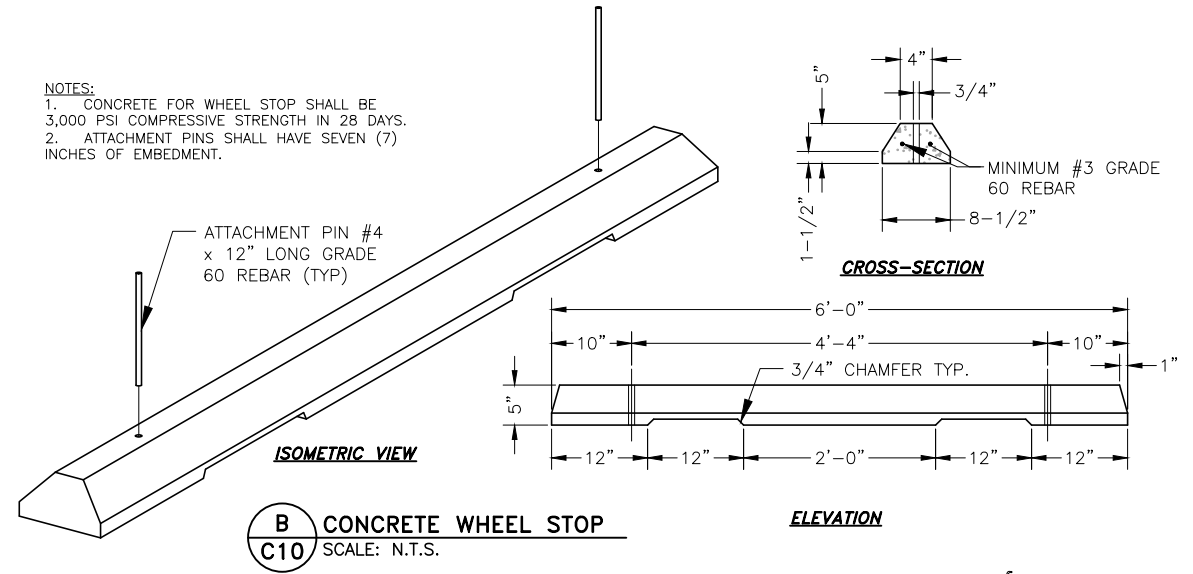
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- FENCING NOTES:**
- CHAIN LINK FENCE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 181.
 - CHAIN LINK FABRIC SHALL BE 2" MESH NO. 9 GAGE GALVANIZED OR ALUMINUM COATED WIRE SECURELY FASTENED TO TENSION WIRE, LINE POSTS, RAILS, BRACES AND STRETCHER BARS SPACED AS SHOWN HEREON. WIRE FASTENERS AND TIE CLIPS SHALL BE NO. 11 GAGE (W&M) GALVANIZED STEEL WIRE OR NO. 7 GAGE (B&S) ALUMINUM WIRE, AND HOG RINGS SHALL BE NO. 9 GAGE, ALL IN CONFORMANCE WITH ASTM F 626.
 - STEEL POSTS, RAILS AND GATE FRAMES SHALL CONFORM TO AASHTO M 181 TYPE 1, GRADE 1 OR GRADE 2.
 - TENSION WIRE SHALL BE CONTINUOUS BETWEEN END OR CORNER POST AND LINE BRACE POST. A TURNBUCKLE OR OTHER APPROVED TIGHTENING DEVICE SHALL BE USED FOR EACH CONTINUOUS SPAN OF TENSION WIRE.
 - TENSION WIRE SHALL BE AS SPECIFIED IN AASHTO M 181.
 - CONCRETE FOOTINGS SHALL HAVE TOPS CROWNED AT GROUND LEVEL AND SHALL BE CLASS A, AX, OR B.
 - CHAIN LINK FABRIC OVER 5 FEET HIGH SHALL BE TWISTED AND BARBED ON THE TOP SELVAGE AND KNUCKLED ON THE BOTTOM SELVAGE.
 - ATTACH FABRIC TO ALL FENCE & GATE STRUCTURES AT 12" INTERVALS VERTICALLY & AT 20" HORIZONTALLY.
 - MATCH EXISTING SITE BARB WIRE 45' ARM SUPPORTS WHERE APPLICABLE.
 - DETAILS ARE FOR REFERENCE ONLY - CONTRACTOR TO SUBMIT FENCE DETAILS.
 - IDENTIFICATION SIGNAGE TO BE INSTALLED ON FENCE PER PLANS. KNOXBOX INSTALLED ON GATE FOR FIRE DEPARTMENT ACCESS.

- NOTES:**
- CONCRETE FOR WHEEL STOP SHALL BE 3,000 PSI COMPRESSIVE STRENGTH IN 28 DAYS.
 - ATTACHMENT PINS SHALL HAVE SEVEN (7) INCHES OF EMBEDMENT.



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TRIVIEW METROPOLITAN DISTRICT
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
LANDSCAPE DETAILS

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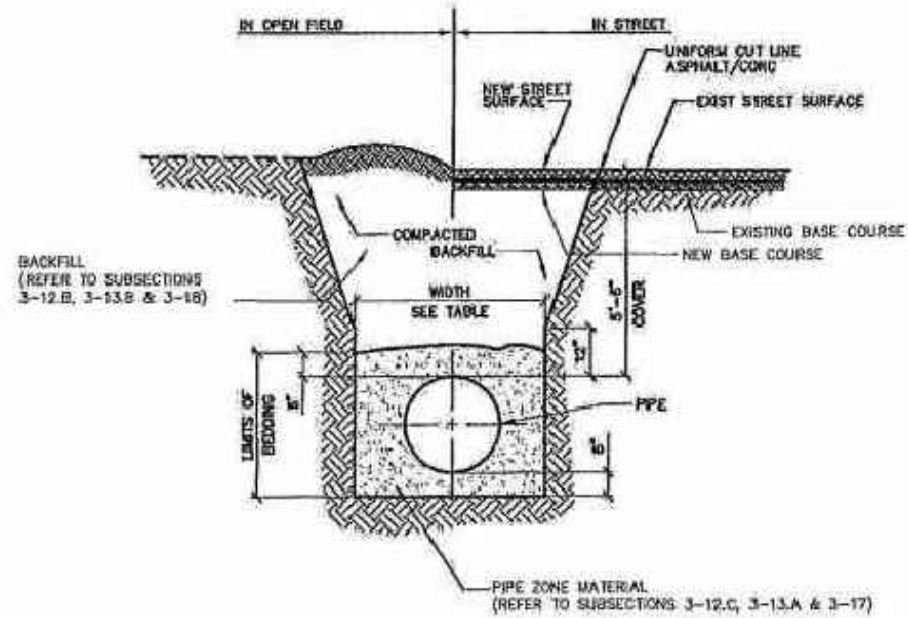
70% DESIGN

Project No.: W224.21029
Date: 09/12/22
Design: MLD
Drawn: GGM
Check: MLD

C10
SHEET ---OF

PCD File No. PPR-XX-XXX

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TYPICAL TRENCH SECTION

NOTES:

1. PAVING SURFACE SHALL COMPLY WITH PAVEMENT SECTION D.
2. TRENCH WALLS TO BE SUPPORTED AS REQUIRED BY OSHA-SUBPART P.
3. MINIMUM COVER TO BE BELOW OFFICIAL STREET GRADE. (SEE DETAIL 1).

PIPE Ø	MIN WIDTH	MAX WIDTH
4"	1'-4"	2'-4"
6"	1'-8"	2'-8"
8"	1'-8"	2'-8"
12"	2'-0"	3'-0"
16"	2'-4"	3'-4"
20"	2'-0"	3'-0"
24"	4'-0"	0'-0"



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**TYPICAL TRENCH SECTION
 PIPE PROTECTION**

DETAIL 2

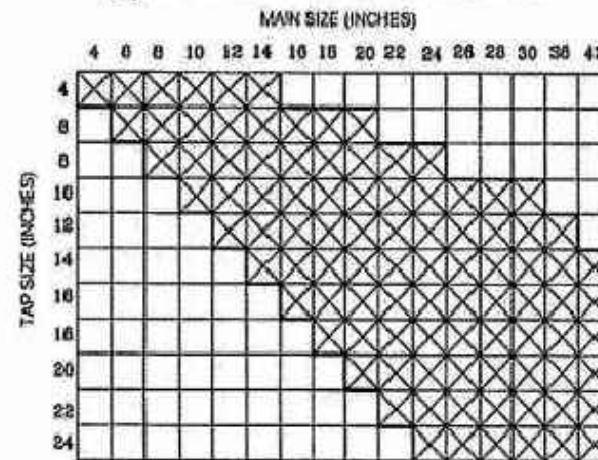
2005 MODIFIED DRAWING FROM DENVER WATER
 [SHEET 10]

CONCRETE THRUST BLOCKS

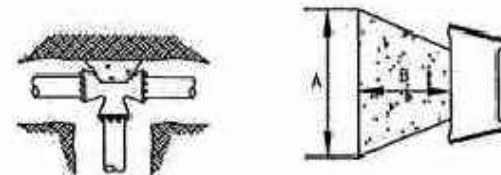
WATER MAIN AND TAP SIZE COMBINATIONS WHICH REQUIRE A CONCRETE THRUST REACTION BLOCK BEHIND THE MAIN AT THE TAPPING SLEEVE OR SADDLE.

ALL WATER MAINS

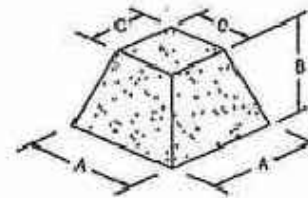
☒ INDICATES CONCRETE THRUST BLOCK REQUIRED



ANY THRUST REACTION BLOCK REQUIREMENTS FOR WATER MAIN AND TAP SIZE COMBINATIONS OTHER THAN THOSE SHOWN ABOVE WILL REQUIRE SPECIAL DESIGN APPROVAL BY TRIVIEW METROPOLITAN DISTRICT.



TEE OR TAP



NOTE: USE THE FOLLOWING VALUES FOR 'C'

PIPE SIZE =	C =
12" & UNDER	1'-6"
16" TO 24"	2'-0"
30" TO 36"	3'-0"

OVER 36" A, B, & C WILL BE GIVEN IN EACH INSTANCE

VOL. (cu yd.)	A	B C=1'-6"	B C=2'-0"	B C=3'-0"
1/4	2'-8"	1'-7"	N/A	N/A
1/2	3'-2"	2'-3"	2'-0"	N/A
3/4	4'-0"	2'-6"	2'-2"	N/A
1	4'-4"	3'-0"	2'-7"	2'-0"
1-1/4	4'-10"	3'-1"	2'-9"	2'-2"
1-1/2	5'-2"	3'-3"	2'-11"	2'-4"
1-3/4	5'-7"	3'-5"	3'-1"	2'-6"
2	5'-10"	3'-7"	3'-2"	2'-8"
2-1/4	6'-3"	3'-8"	3'-4"	2'-9"
2-1/2	6'-4"	3'-11"	3'-7"	3'-0"
2-3/4	6'-9"	3'-11"	3'-7"	3'-0"
3	6'-10"	4'-1"	3'-9"	3'-2"
3-1/4	7'-3"	4'-1"	3'-9"	3'-2"
3-1/2	7'-4"	4'-3"	3'-11"	3'-4"
3-3/4	7'-7"	4'-4"	4'-0"	3'-5"
4	7'-11"		4'-0"	3'-5"
4-1/4	8'-1"		4'-0"	3'-5"
4-1/2	8'-4"		4'-0"	3'-5"
4-3/4	8'-6"		4'-1"	3'-7"
5	8'-8"		4'-2"	3'-8"
5-1/4	8'-11"		4'-2"	3'-8"
5-1/2	9'-1"		4'-3"	3'-9"
5-3/4	9'-3"		4'-4"	3'-10"
6	9'-4"		4'-5"	3'-11"
6-1/4	9'-6"		4'-5"	4'-0"
6-1/2	9'-8"		4'-6"	4'-0"
6-3/4	9'-11"		4'-6"	4'-0"
7	10'-2"		4'-6"	4'-0"
7-1/4	10'-3"		4'-7"	4'-1"
7-1/2	10'-4"		4'-8"	4'-2"
7-3/4	10'-5"		4'-9"	4'-2"
8	10'-6"		4'-10"	4'-4"
8-1/4	10'-8"		4'-10"	4'-4"
8-1/2	10'-9"		4'-11"	4'-5"
8-3/4	10'-11"		4'-11"	4'-5"
9	11'-1"		4'-11"	4'-5"
9-1/4	11'-2"		5'-0"	4'-6"
9-1/2	11'-4"		5'-0"	4'-6"
9-3/4	11'-6"		5'-0"	4'-6"
10	11'-8"		5'-0"	4'-6"

ALL WATER MAINS WILL HAVE VOLUMES SHOWN ON PLAN AND PROFILE DRAWINGS.

SEE VOLUMES ABOVE FOR A, B, & C DIM.

FITTINGS	4"	6"	8"
TEE	1/4 yd	1/2 yd	3/4 yd
90° BEND	1/4 yd	3/4 yd	1-1/4 yd
45° BEND	1/4 yd	1/2 yd	3/4 yd
22-1/2° BEND	1/4 yd	1/4 yd	1/4 yd
11-1/4° BEND	1/4 yd	1/4 yd	1/4 yd



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THRUST BLOCKS DATA

DETAIL 13

2003 MODIFIED DRAWING FROM COLORADO
 SPRINGS UTILITIES [DETAIL A 3-2]

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 (719) 227-0072

TRIVIEW METROPOLITAN DISTRICT
 NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
 CIVIL DETAILS

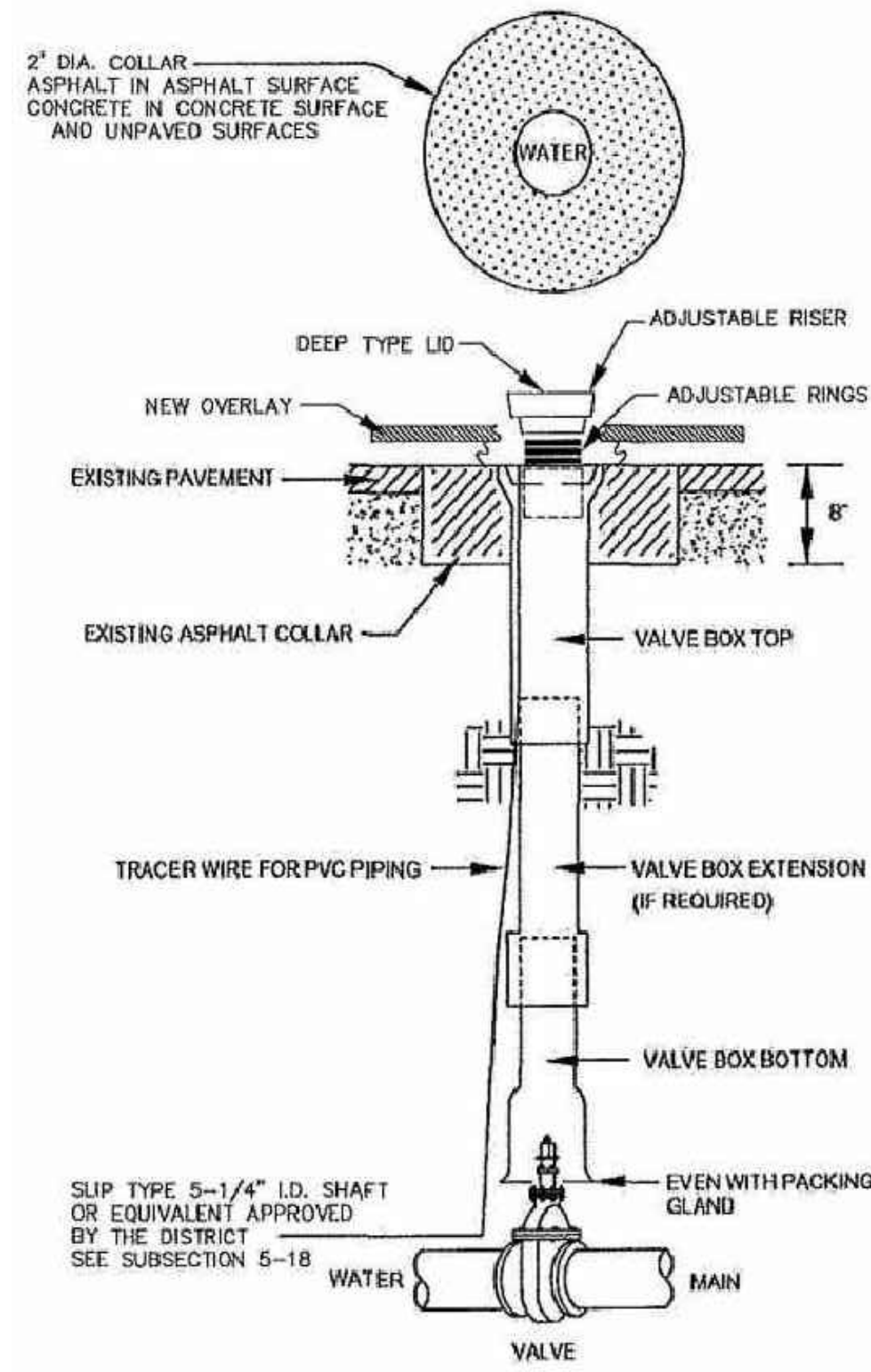
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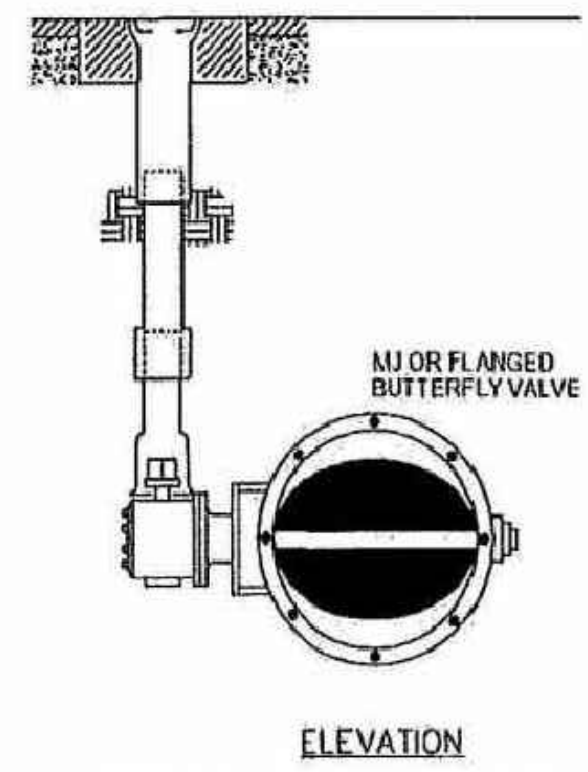
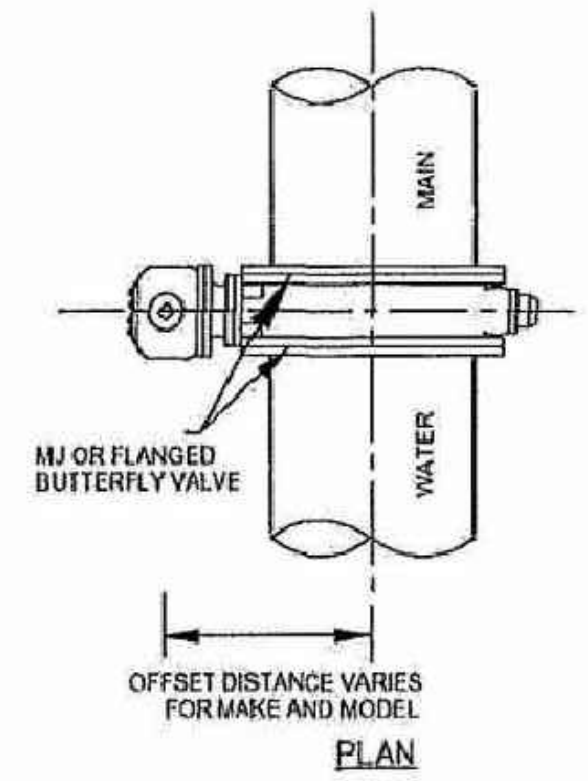
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 Date: 09/12/22
 Design: MLD
 Drawn: AMY
 Check: MLD

C11
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NOTE: MAIN AND FIRE HYDRANT VALVES AND VALVE BOXES SHALL BE LOCATED IN THE PAVEMENT SURFACE OF THE STREET, AND SHALL NOT BE IN THE CURB PAN, CURB OR SIDEWALK.



NOTE: MAKE AND MODEL MAY VARY FROM SCHEMATIC SHOWN IN DETAIL. CONTROL VALVE MAY BE LOCATED ON THE TOP OR SIDE.

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TRIVIEW METROPOLITAN DISTRICT
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
CIVIL DETAILS

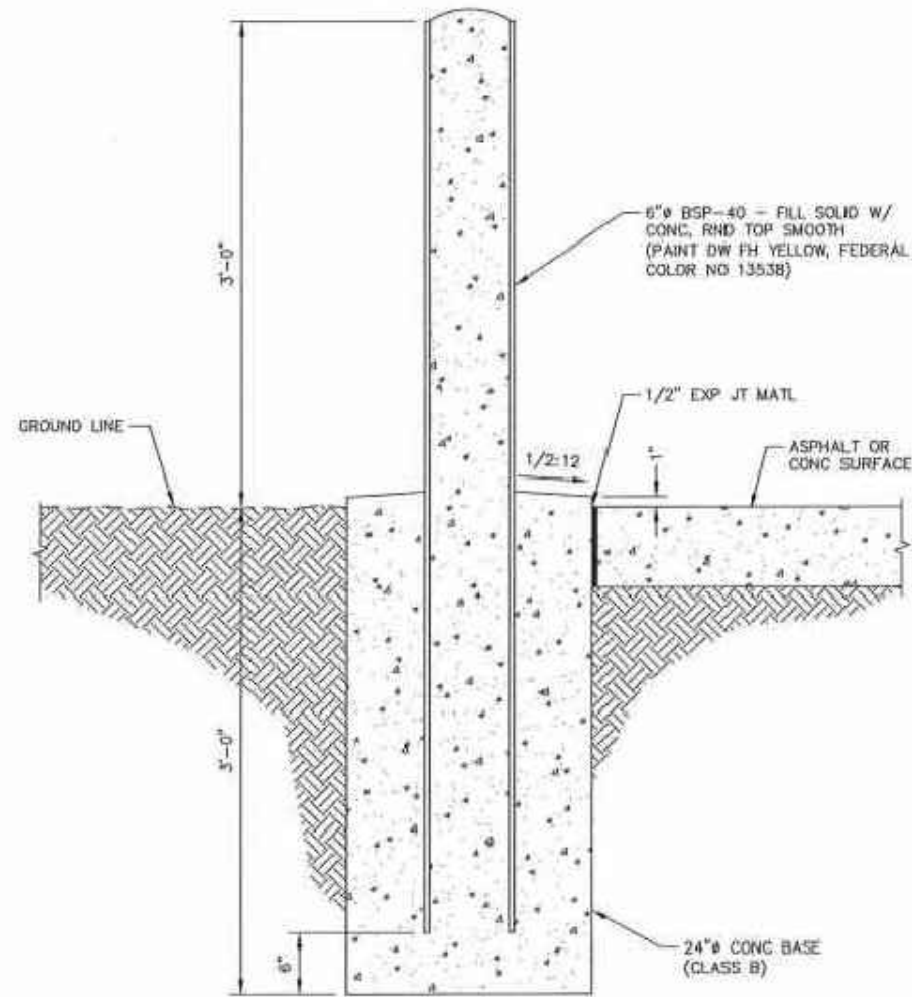
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Project No.: W224.21029
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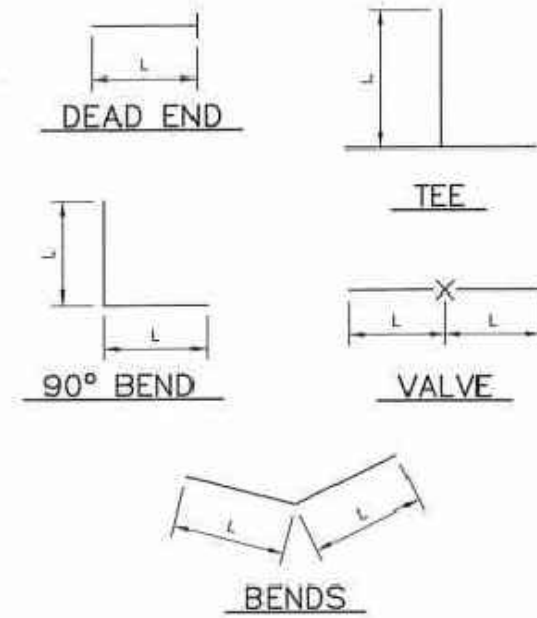


**TRIVIEW
METROPOLITAN DISTRICT**

TRAFFIC IMPEDIMENT BOLLARD

Scale: NONE Date: May 2018

SHEET 73



NOMINAL PIPE Ø	FITTING				
	90° BEND, TEE, DEAD END	VALVE	45° BEND	22 1/2° BEND	11 1/4° BEND
4"	30'	30'	9'	2'	1'
6"	46'	40'	13'	3'	1'
8"	61'	51'	18'	5'	1'
12"	90'	90'	26'	7'	2'
16"	116'	116'	34'	9'	2'
20"	141'	141'	41'	11'	3'

NOTES:

1. LENGTH OF RESTRAINED PIPE IS MEASURED DISTANCE EACH WAY FROM VALVES AND BENDS.
2. MINIMUM 4- FEET 6- INCH BURY DEPTH REQUIRED.
3. BASED ON 150 POUNDS PER SQUARE INCH WORKING PRESSURE.
4. CROSSES SHALL BE RESTRAINED IN ALL DIRECTIONS.
5. WHEN REDUCERS ARE USED ON A VALVE INSTALLATION THE LENGTH OF RESTRAINT SHALL BE BASED ON THE SIZE OF THE PIPE NOT THE SIZE OF THE VALVE.

**TRIVIEW METROPOLITAN
DISTRICT**

LENGTH OF RESTRAINED PIPE

Scale: NONE Date: May 2018

SHEET 21

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TRIVIEW METROPOLITAN DISTRICT
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
CIVIL DETAILS

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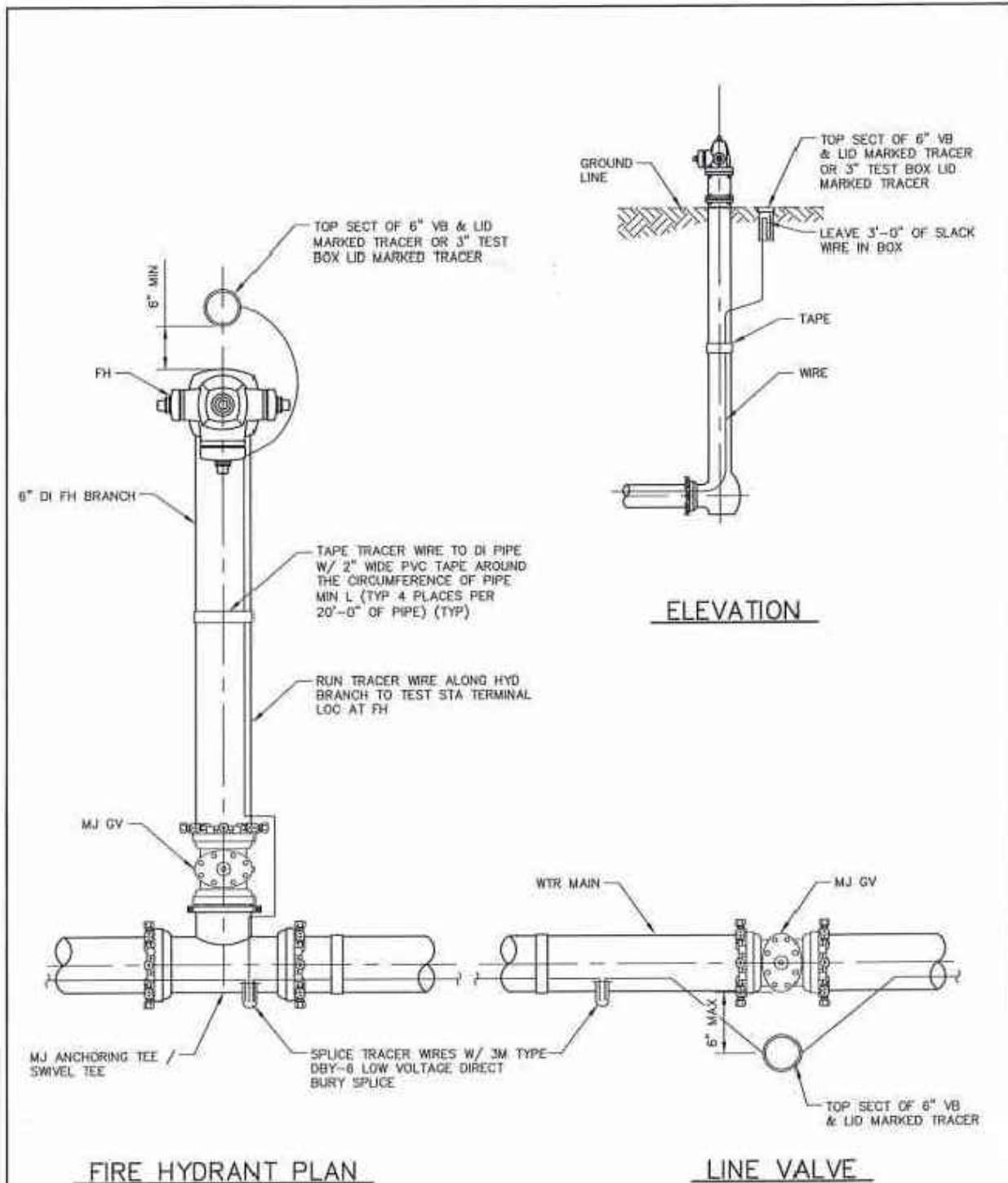
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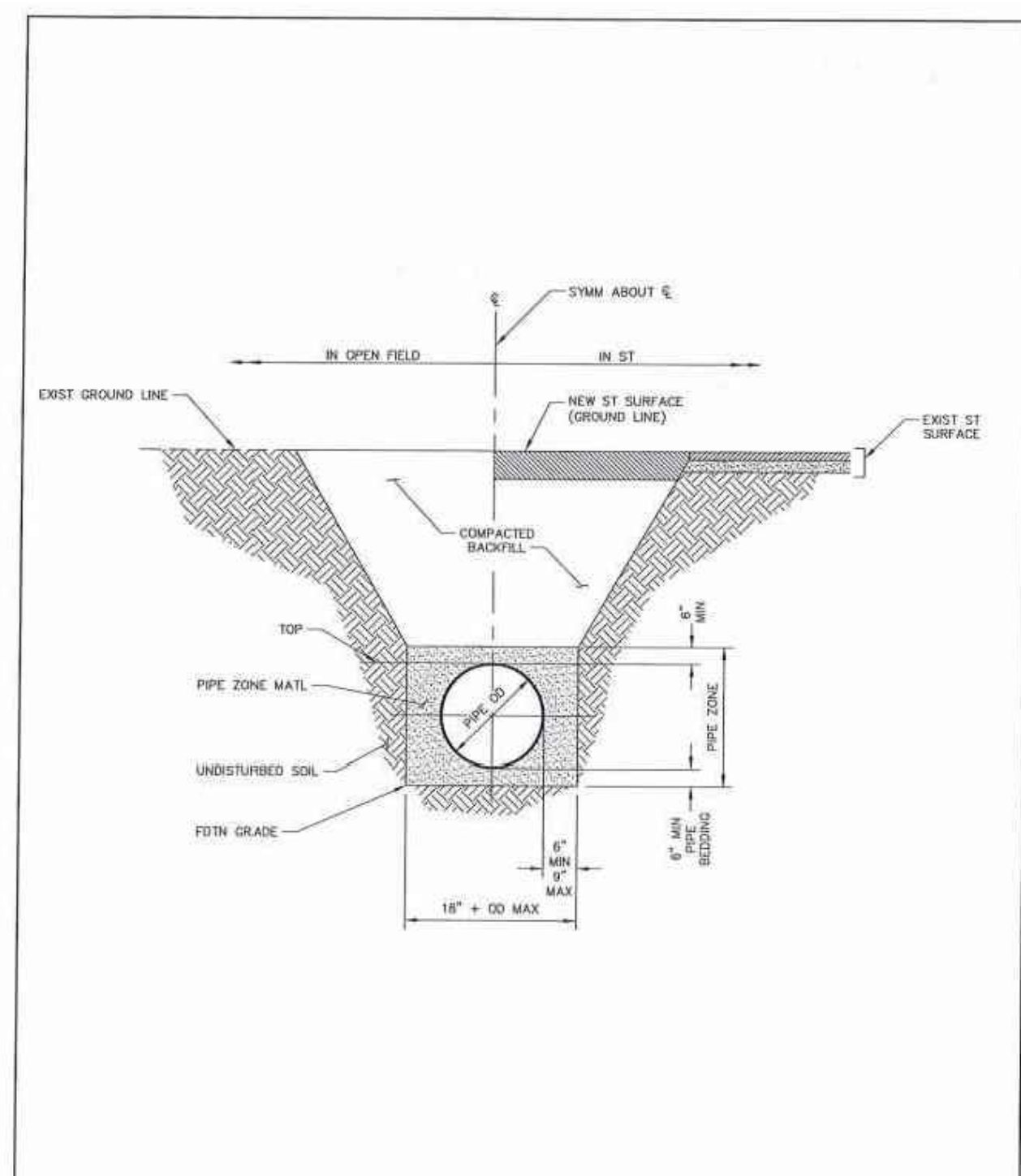
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TRIVIEW METROPOLITAN DISTRICT
TRACER WIRE INSTALLATION FOR PVC WATER MAIN
 Scale: NONE Date: May 2018

SHEET 11



NOTES:

1. MINIMUM COVER SHALL BE 4- FEET 6- INCHES BELOW THE GROUND LINE.
2. TRENCH SHALL CONFORM TO APPLICABLE OSHA REQUIREMENTS.
3. COMPACTION SHALL BE IN ACCORDANCE WITH CHAPTER 7.


TRIVIEW METROPOLITAN DISTRICT
TYPICAL TRENCH SECTION
 Scale: NONE Date: May 2018

SHEET 8

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TRIVIEW METROPOLITAN DISTRICT
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
 CIVIL DETAILS

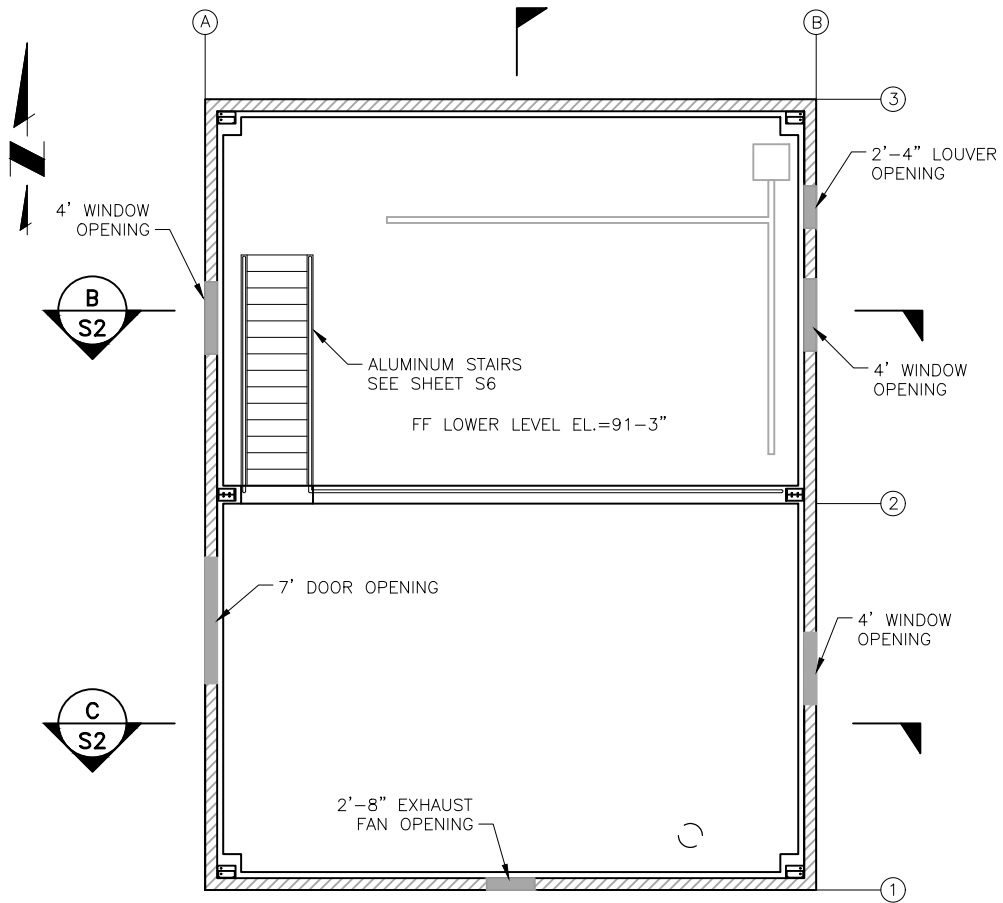
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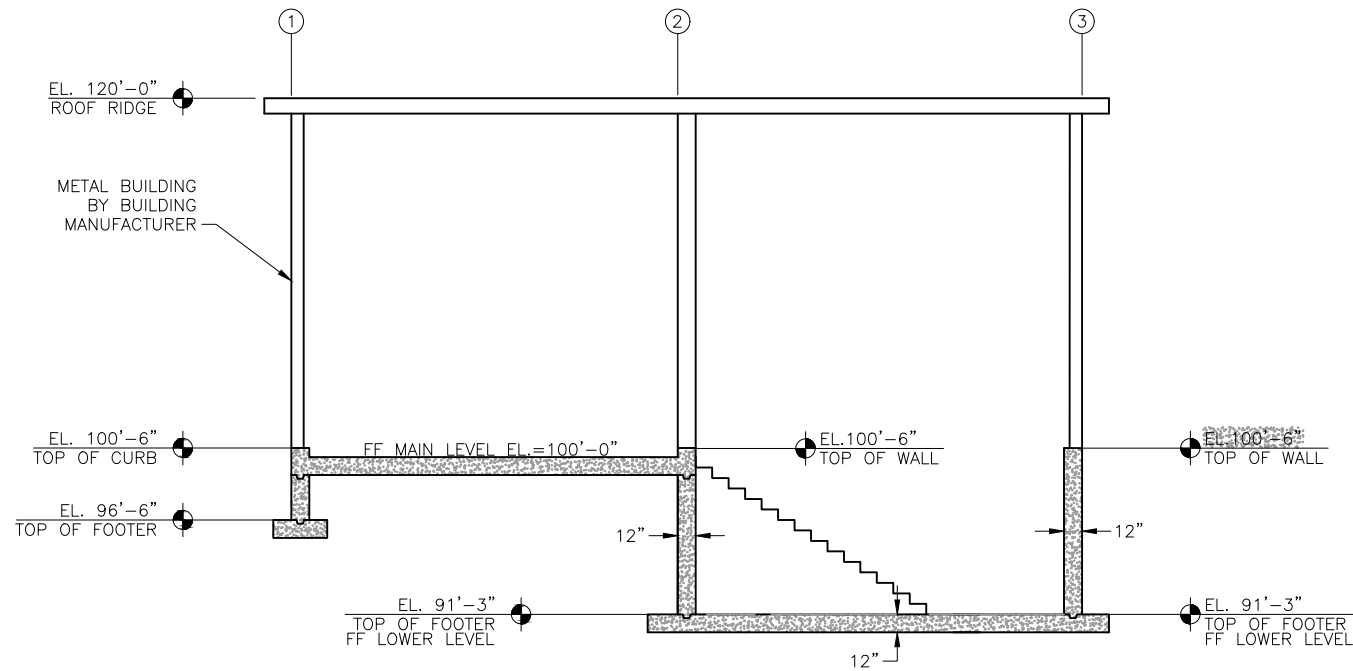
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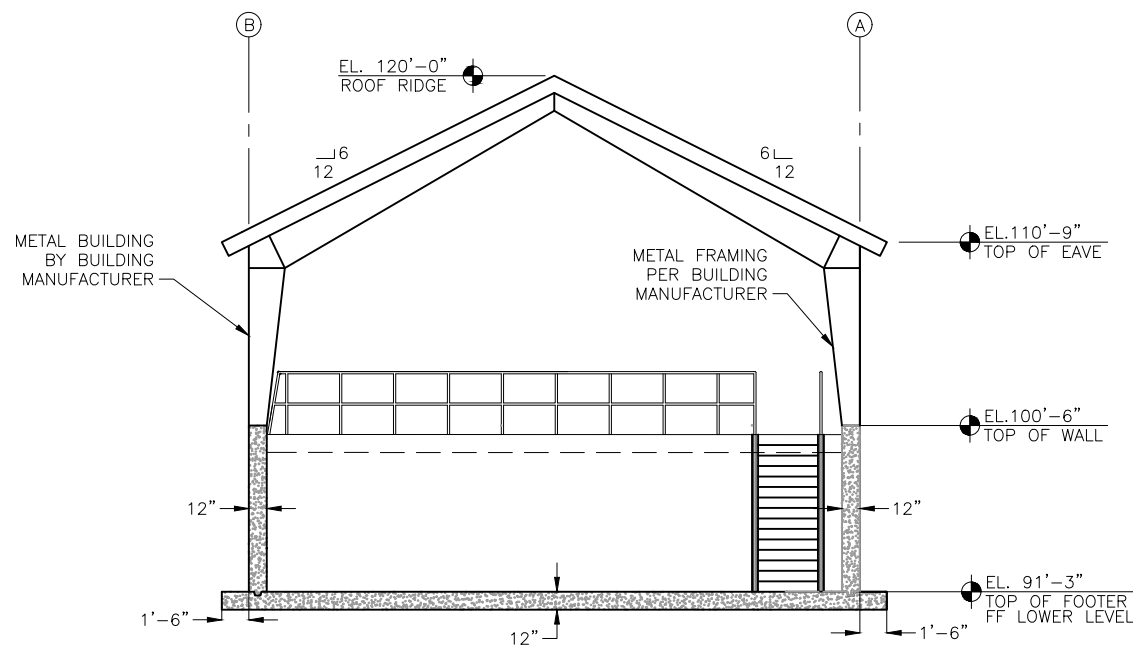
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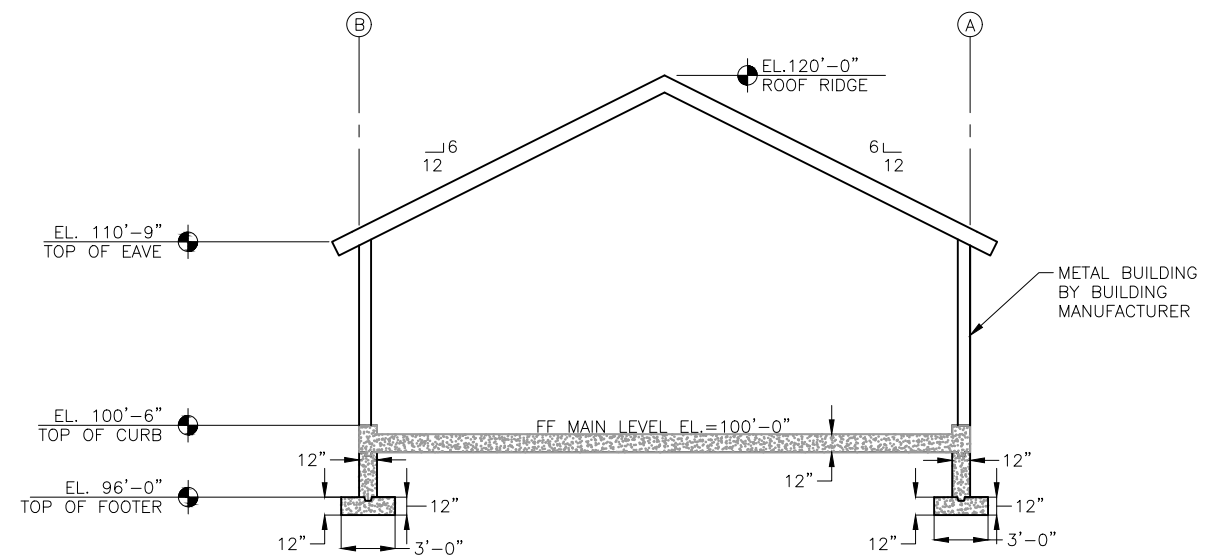
A STRUCTURAL FLOOR PLAN
S2 SCALE: 3/32" = 1'-0"



B BUILDING SECTION
S2 SCALE: 3/32" = 1'-0"



C BUILDING SECTION
S2 SCALE: 3/32" = 1'-0"



D BUILDING SECTION
S2 SCALE: 3/32" = 1'-0"

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TRIVIEW METROPOLITAN DISTRICT
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
STRUCTURAL SECTIONS

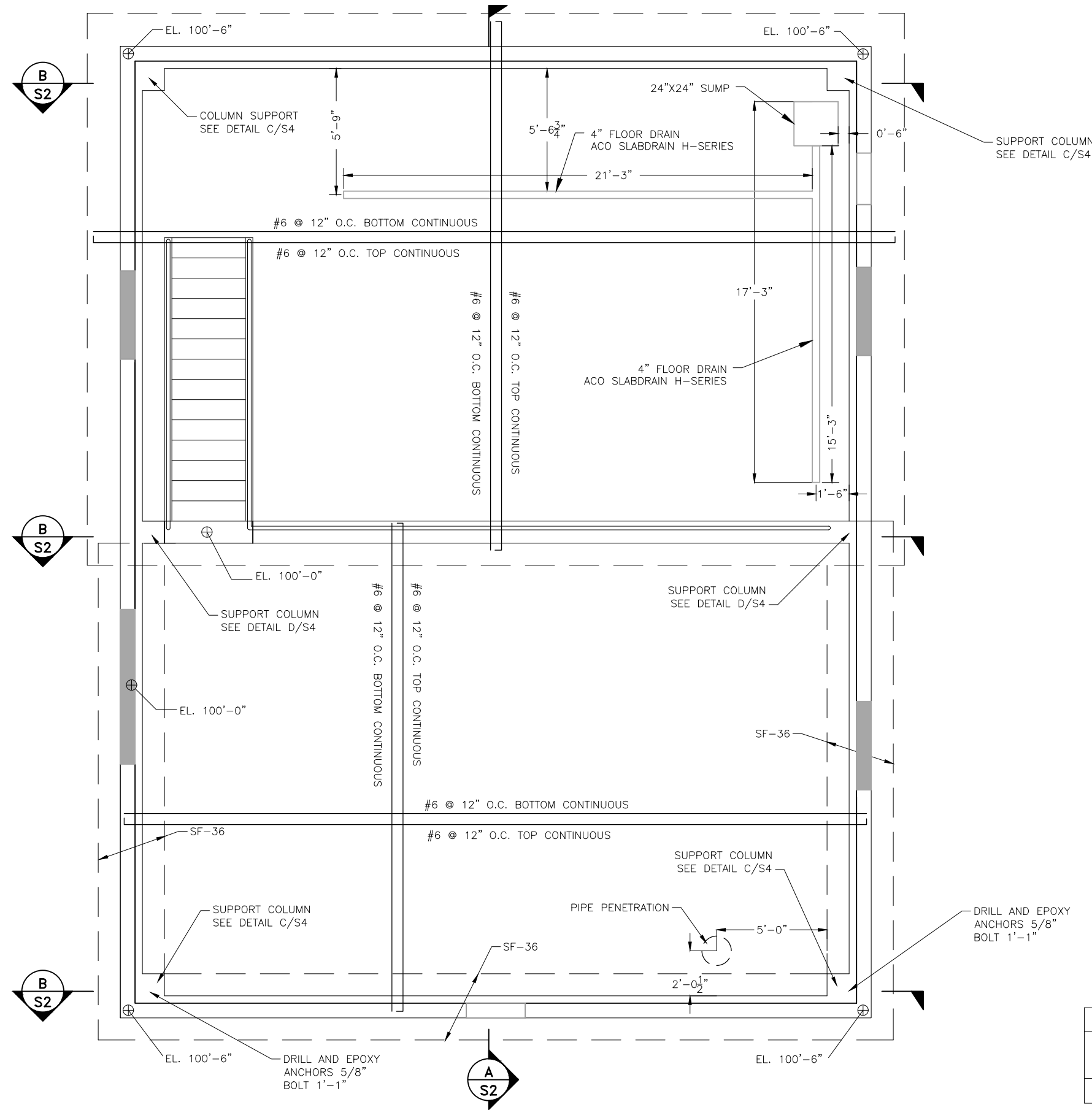
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NOTES:

1. SEE STRUCTURAL NOTES FOR PLACEMENT OF CONTROL JOINTS IN FLOOR TOPPING. CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF CRACK CONTROL JOINT LOCATIONS PRIOR TO IMPLEMENTATION.
2. PIPE PENETRATIONS: ALL PIPE PENETRATIONS IN TANK WALLS MAY BE CORED IN FIELD UNLESS OTHERWISE NOTED. FOR PIPE DIAMETERS > 2" O.D., LINK SEAL MUST BE USED TO PROVIDE A WATER TIGHT SEAL AROUND THE PIPE IN THE CORED HOLE, THEN GROUTED SMOOTH. VERIFY PENETRATION LOCATIONS WITH MECHANICAL SHEETS.
3. ALL REBAR SHALL HAVE A MINIMUM 1-1/2" CLEARANCE FOR #5 BARS AND SMALLER AND MINIMUM 2" CLEARANCE FOR #6 BARS AND LARGER ON ALL FORMED SURFACES AND A MINIMUM OF 3" OF CLEARANCE FROM ALL EARTHEN SURFACES.
4. REBAR SHALL HAVE A SPLICE LENGTH EQUAL TO OR GREATER THAN 36 TIMES THE DIAMETER OF THE BAR TO BE PLACED UNLESS OTHERWISE SPECIFIED.
5. ALL CONSTRUCTION JOINTS SHALL HAVE A 2"x4" SHEAR KEY UNLESS OTHERWISE SPECIFIED. A CONSTRUCTION JOINT IS AN INTERFACE BETWEEN CONCRETE PLACEMENTS INTENTIONALLY CREATED TO FACILITATE CONSTRUCTION.
6. SEE GENERAL NOTES AND GEOTECHNICAL EVALUATION FOR FOUNDATION AND SUBGRADE PREP REQUIREMENTS. IT IS ASSUMED THAT THE BOTTOM OF THE FOOTING WILL BE CONSTRUCTED ABOVE BEDROCK.

FOOTER SCHEDULE						
MARK	TOP OF FOOTING EL.	SIZE		REINFORCING		
		WIDTH	DEPTH	TOP	BOTTOM	TRANS.
SF-36	100'-0"	3'-0"	12"	#6@12"	#6@12"	#6@12"

STRUCTURAL FOUNDATION PLAN
SCALE: 3/16"=1'-0"

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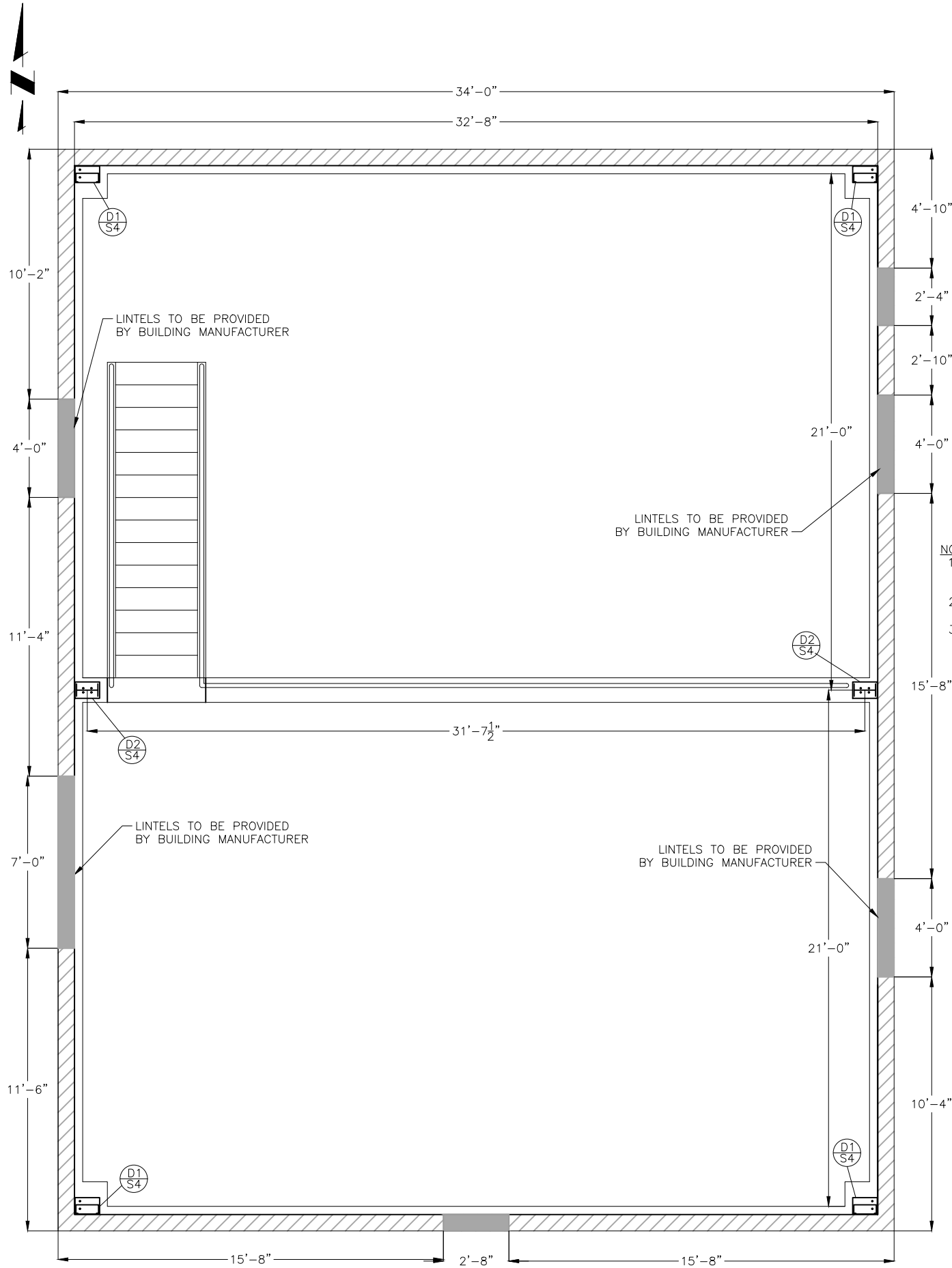
TRIVIEW METROPOLITAN DISTRICT
 NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
STRUCTURAL FLOOR PLAN

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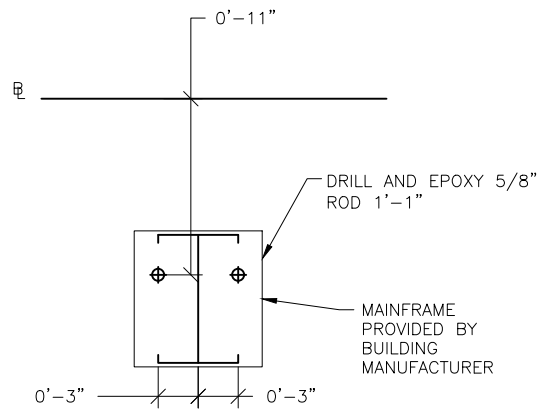
70% DESIGN

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STRUCTURAL BOLT AND ANCHOR PLAN
SCALE: 3/16"=1'-0"



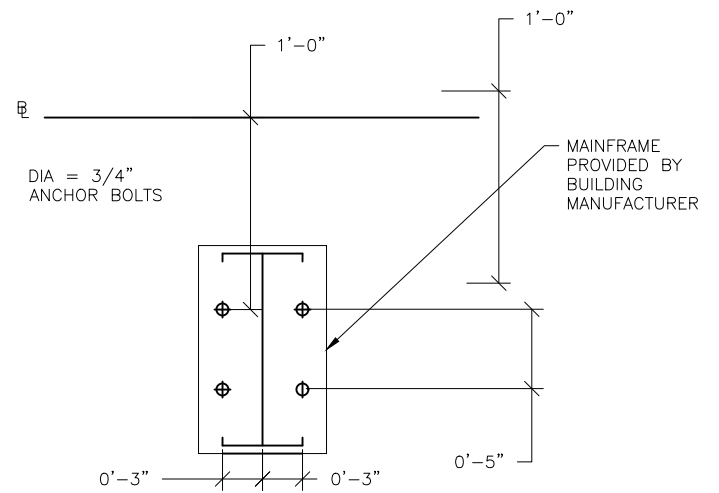
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S4 SCALE: 1" = 1'-0"

ANCHOR BOLT SUMMARY

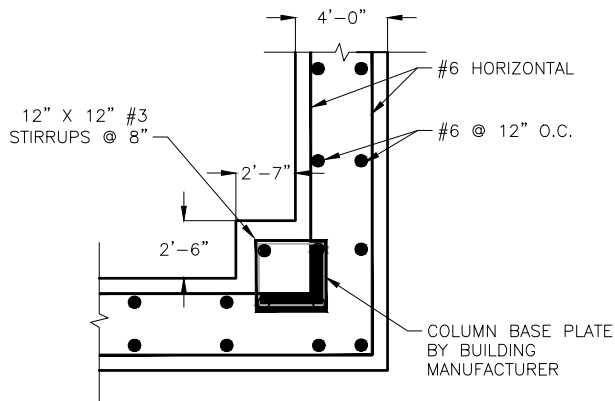
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•						
•						
TO BE DETERMINED						

NOTES:

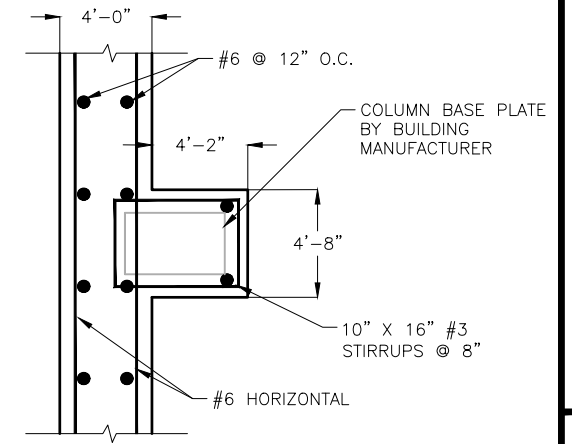
- ANCHOR BOLT AND COLUMN BASE PLATE ASSEMBLIES ON SIDE WALL MAINFRAME SHALL BE ASSEMBLED AND SECURED TO THE CONCRETE FORM WORK PRIOR TO CONCRETE PLACEMENT.
- ANCHOR ROD TIES SHOULD BE TIED TO THE ANCHOR BOLT ASSEMBLY AS DETAILED.
- (6) - #3 TIES AT 2" O.C. INSTALL ON LOWER 16" OF SIDE WALL COLUMN ANCHOR BOLTS.



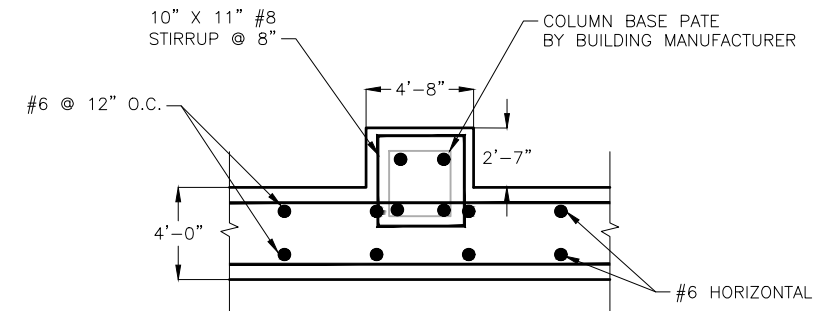
B DETAIL D2
S4 SCALE: 1" = 1'-0"



C COLUMN SUPPORT DETAIL
S4 SCALE: N.T.S.



D COLUMN SUPPORT DETAIL
S4 SCALE: N.T.S.



E COLUMN SUPPORT DETAIL
S4 SCALE: N.T.S.

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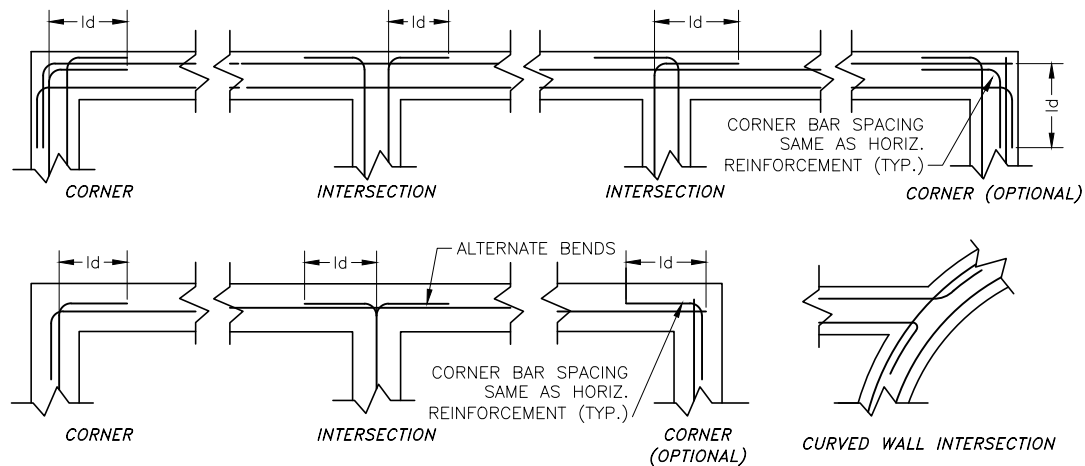
Project No.: W224.21029
Date: 09/12/22
Design: MLD
Drawn: JBS, SNW
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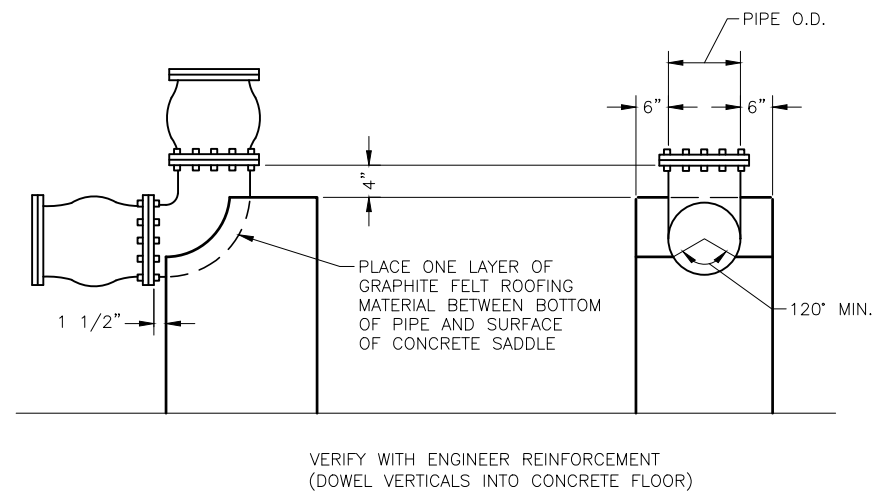
SPLICE AND DEVELOPMENT LENGTHS										
	BEAMS AND COLUMNS					WALLS AND SLABS				
	LENGTH OF LAPPED SPLICES FOR REINF. (INCHES)		LENGTH OF END ANCHORAGE FOR DEVELOPMENT OF REINFORCEMENT (INCHES)			LENGTH OF LAPPED SPLICES FOR REINF. (INCHES)		LENGTH OF END ANCHORAGE FOR DEVELOPMENT OF REINFORCEMENT (INCHES)		
	1HOR. BARS	2OTHERS	1HOR. BARS	2OTHERS	HOOKS	1HOR. BARS	2OTHERS	1HOR. BARS	2OTHERS	HOOKS
3	21	16	16	13	6	21	16	16	13	6
4	28	22	22	17	8	28	22	22	17	8
5	35	27	27	21	10	35	27	27	21	10
6	46	36	32	25	12	42	32	32	25	12
7	63	48	38	29	14	63	48	48	37	14
8	82	63	45	35	16	117	90	63	49	16
9	104	80	57	44	18	149	114	80	62	18
10	132	102	73	56	20	189	145	102	78	20
11	152	125	89	69	22	232	178	178	137	22
12	-	-	122	94	38	-	-	243	187	38
13	-	-	178	137	50	-	-	356	274	50

NOTES:

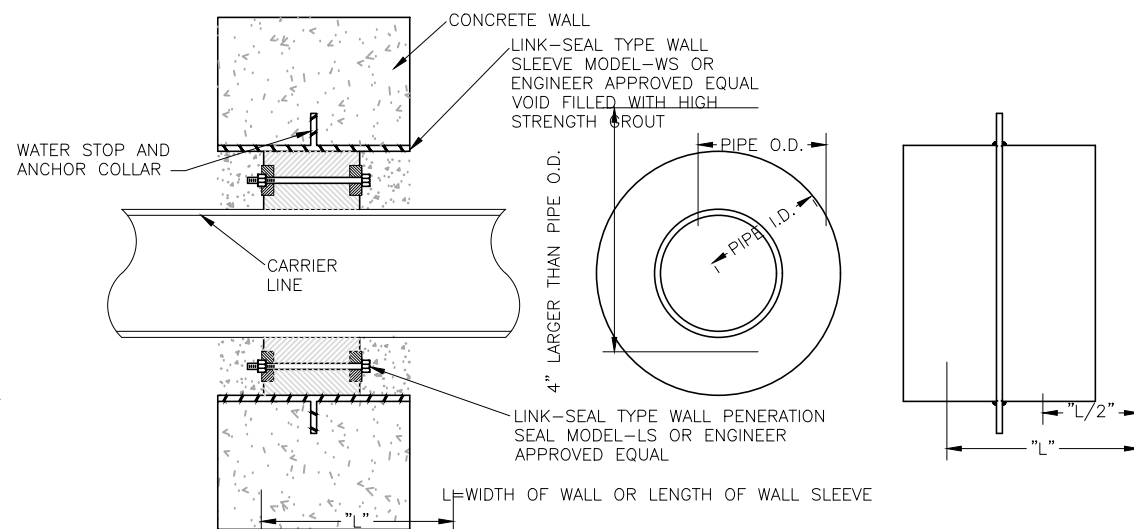
- HORIZONTAL BARS IN THIS COLUMN MUST HAVE A MINIMUM OF 12" OF CONCRETE THICKNESS BELOW THE BAR. HORIZONTAL BARS IN WALLS ARE ALSO SUBJECT TO THESE STANDARDS.
- VERTICAL BARS AND HORIZONTAL BARS WITH LESS THAN 12" OF CONCRETE THICKNESS BELOW THE BAR CAN BE CONSIDERED AS "OTHER BARS".
- STRAIGHT BARS SIZE 7 THROUGH 11 PLACED WITH NO LESS THAN 5 BAR DIAMETER CLEAR SPACING MAY HAVE A DEVELOPMENT LENGTH AND LAP SPLICE LENGTH OF 0.8 TIMES THE LENGTH SHOWN.



A CONCRETE WALL REINFORCEMENT
S5 SCALE: N.T.S.



C CONCRETE PIPE SUPPORT DETAIL @ 90° ELBOW
S5 SCALE: N.T.S.

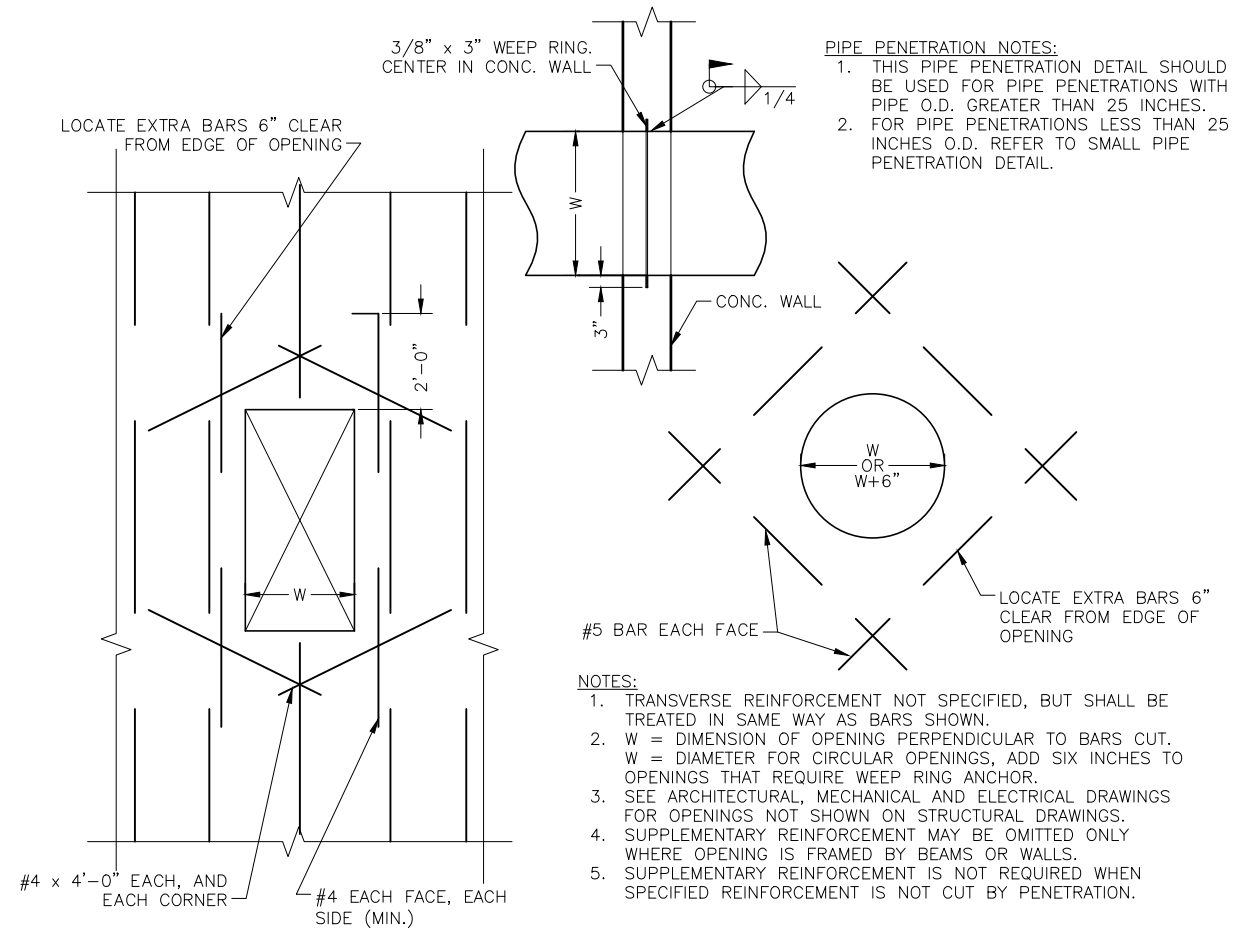


D SMALL (O.D. < 25") PIPE PENETRATION
S5 WALLS AND SLABS DETAIL
SCALE: N.T.S.

NOTES:

- THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING THE SIZE OF THE WALL SLEEVE AND THE PENETRATION SEAL REQUIRED.
- ALL PENETRATIONS IN THE WALL WILL REQUIRE WALL SLEEVES AND PENETRATION SEALS.

B REINFORCEMENT FOR OPENINGS IN S5 WALLS AND PRECAST SLABS
SCALE: N.T.S.



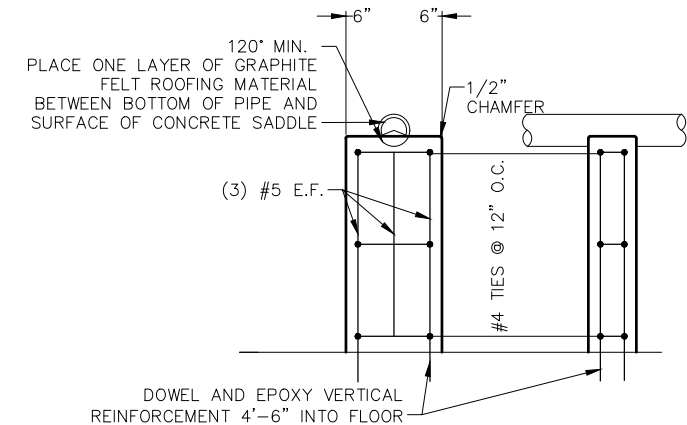
NOTES:

- TRANSVERSE REINFORCEMENT NOT SPECIFIED, BUT SHALL BE TREATED IN SAME WAY AS BARS SHOWN.
- W = DIMENSION OF OPENING PERPENDICULAR TO BARS CUT. W = DIAMETER FOR CIRCULAR OPENINGS, ADD SIX INCHES TO OPENINGS THAT REQUIRE WEEP RING ANCHOR.
- SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS.
- SUPPLEMENTARY REINFORCEMENT MAY BE OMITTED ONLY WHERE OPENING IS FRAMED BY BEAMS OR WALLS.
- SUPPLEMENTARY REINFORCEMENT IS NOT REQUIRED WHEN SPECIFIED REINFORCEMENT IS NOT CUT BY PENETRATION.

PIPE PENETRATION NOTES:

- THIS PIPE PENETRATION DETAIL SHOULD BE USED FOR PIPE PENETRATIONS WITH PIPE O.D. GREATER THAN 25 INCHES.
- FOR PIPE PENETRATIONS LESS THAN 25 INCHES O.D. REFER TO SMALL PIPE PENETRATION DETAIL.

E CONCRETE PIPE SUPPORT DETAIL
S5 SCALE: N.T.S.



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TRIVIEW METROPOLITAN DISTRICT
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
STRUCTURAL DETAILS

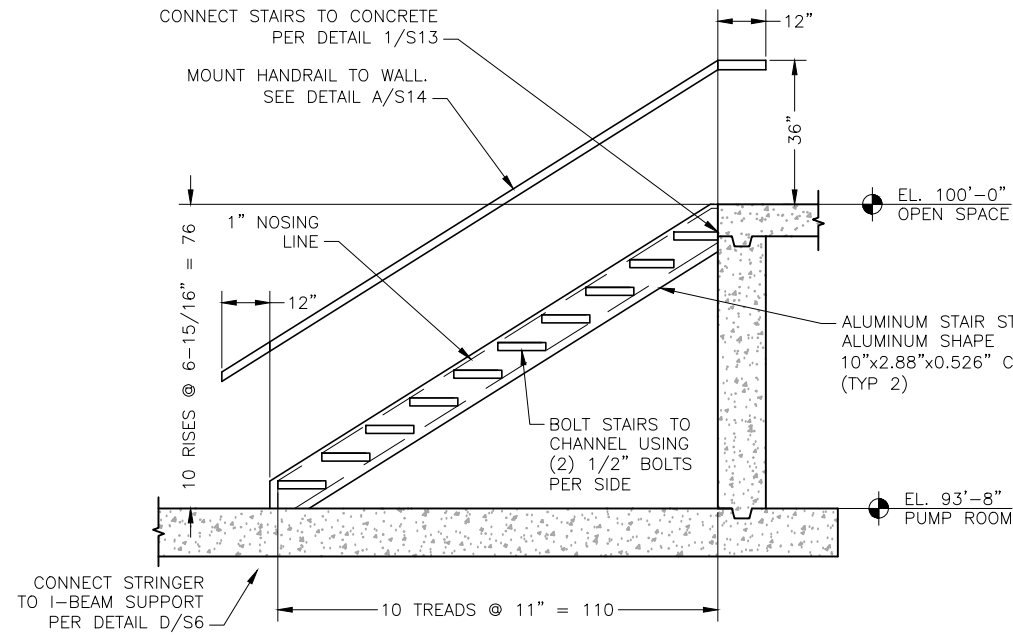
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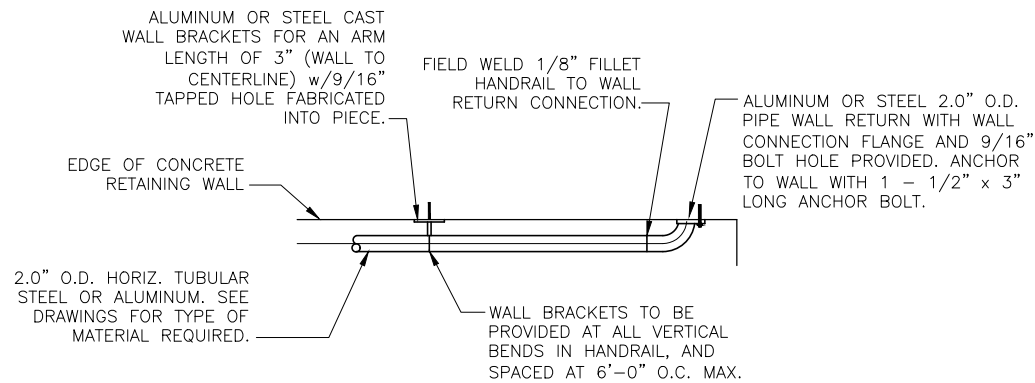
Project No.: W224.21029
Date: 09/12/22
Design: MLD
Drawn: JBS/SNW
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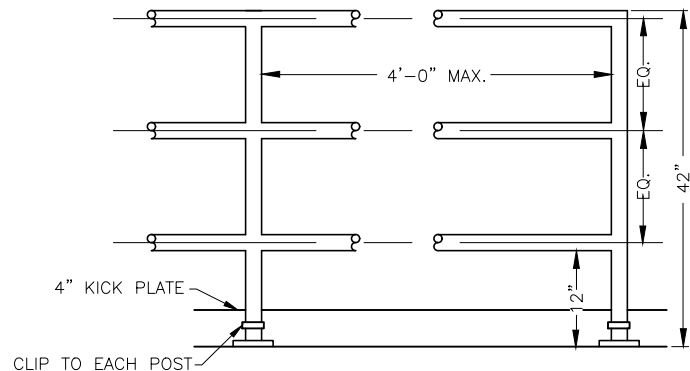
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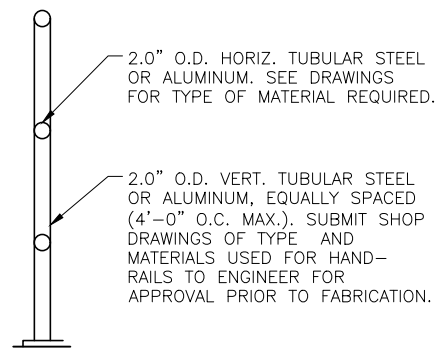
A STAIR DETAIL
S6 SCALE: 1/4" = 1'-0"



D WALL MOUNTED HAND RAIL DETAILS
S6 SCALE: N.T.S.



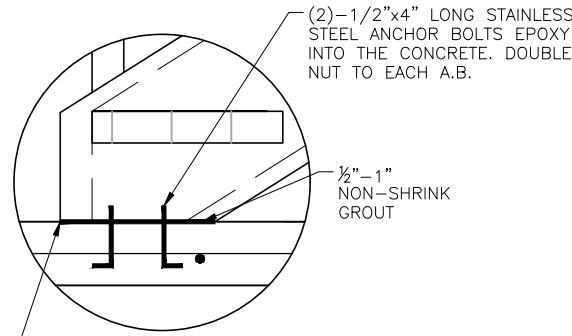
A HANDRAIL DETAIL
S6 SCALE: N.T.S.



HANDRAIL/GUARDRAIL NOTES:

1. ALL HANDRAILS SHALL BE FABRICATED WITH NEW 2.0" DIAMETER STANDARD WEIGHT ALUMINUM OR STEEL TUBING. (SEE DRAWINGS FOR TYPE OF MATERIAL REQUIREMENT). ALL RAILING POST MEASUREMENTS SHALL BE FIELD MEASURED AND FABRICATED TO FIT.
2. DESIGN LIVE LOADS EQUALS 50 LBS/LF APPLIED HORIZONTALLY AT RIGHT ANGLES TO TOP RAIL.
3. WELD ALL PIPE JOINTS WITH 1/8" REINFORCED WELDS AND DRESS SMOOTH.
4. CORNERS AND EDGES OF ALL BARS, PLATES AND PIPE ENDS SHALL BE SANDED SMOOTH AND FREE OF BURRS.
5. ALL HANDRAIL MATERIAL REQUIRED FOR COMPLETE INSTALLATION SHALL BE APPROVED BY OWNER PRIOR TO APPLICATION. SUBMIT SHOP DRAWINGS TO ENGINEER PRIOR TO THE FABRICATION OF HANDRAILS.
6. WHEN THERE ARE STAIRS PRESENT, A SEPARATE INTERMEDIATE HANDRAIL MUST BE INSTALLED ON BOTH SIDES AT 36 INCHES ON CENTER TO PROTECT AGAINST FALLS. THIS HANDRAIL WILL PROTRUDE AWAY FROM THE GUARDRAIL TO ALLOW EASE OF GRASPING. SEE BUILDING CODES FOR ADDITIONAL INFORMATION.

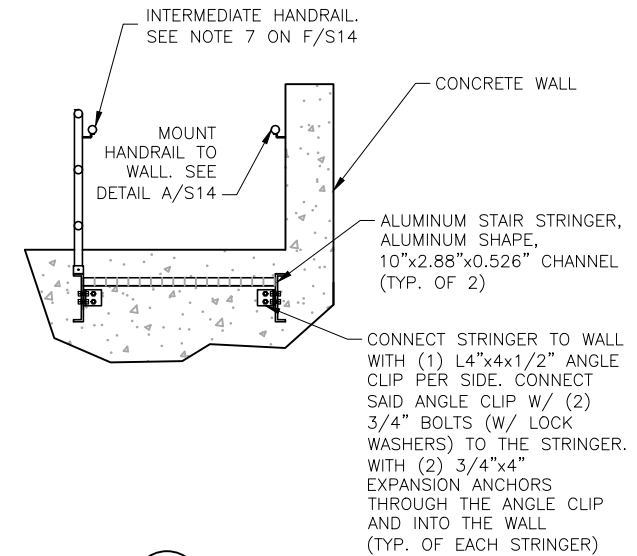
D STRINGER CONNECTION TO FLOOR
S6 SCALE: N.T.S.



NOTES:

1. **COVERS:** ALUMINUM PLATE COVERS SHALL BE 1/4" THICK WITH NON-SKID DIAMOND PLATE PATTERN. MAX LIVE LOAD=100 PSF, MAX CONCENTRATED LOAD=1,000 LB WITH MAX 1/4" DEFLECTION UNDER MAXIMUM LOADING CONDITIONS. COVER PLATES SHALL BE ATTACHED TO ALL SUPPORT MEMBER FLANGES VIA 1/2" S.S. BOLTS. BOLTS SHALL BE SPACED AT 12" ALONG ALL SUPPORT MEMBERS AND INSTALLED TO ENABLE EASY REMOVAL BY OWNER IF NECESSARY.
2. **SHOPS:** ALL GRATING, HANDRAILING, SUPPORT SHAPES, STAIRS, CONNECTIONS, AND ALUMINUM COVERS MUST HAVE SHOP DRAWINGS SUBMITTED FOR APPROVAL PRIOR TO FABRICATION.
3. **ALUMINUM FABRICATIONS:** ALUMINUM GRATING, FLOOR PLATES, COVER PLATES, AND MEMBERS SHALL BE FIELD MEASURED FOR PROPER CUTOUTS AND PROPER SIZES. FIELD WELDING OF ALUMINUM GRATING, PLATES, AND MEMBER SHALL BE IN ACCORDANCE WITH ASCE VOL. 88-ST6.
4. **STAIRS:** ALUMINUM STAIR TREAD WITH NON-SLIP SURFACE. McNICHOLS TYPE A-STANDARD 1-3/4"x3/16" DEEP x 12" WIDE (EXCEPT WHERE NOTED). STAIR LENGTHS AS INDICATED ON PLANS. CORRUGATED METAL NOSING.
5. **SUPPORT MEMBER INTERSECTIONS:** CUT ALL I-BEAM INTERSECTIONS AT 45° ANGLE AND BUTT WELD MEMBERS IN FIELD.
6. **HANDRAIL:** ALL NUTS, BOLTS, ANCHORS, ETC; SHALL BE STAINLESS STEEL.

E STRINGER CONNECTION TO CONCRETE
S6 SCALE: N.T.S.

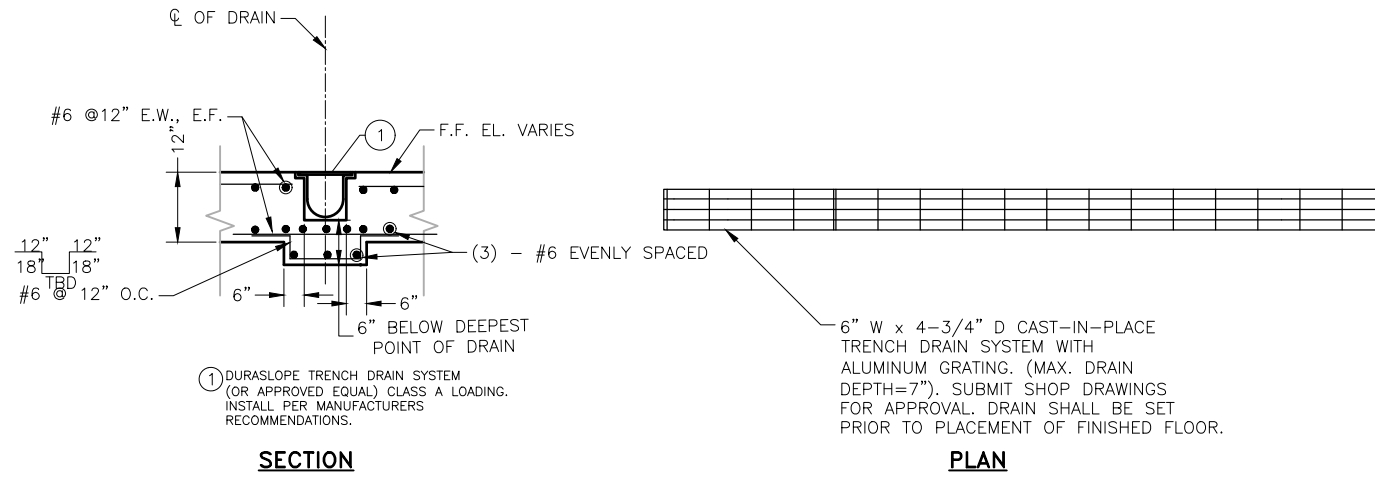


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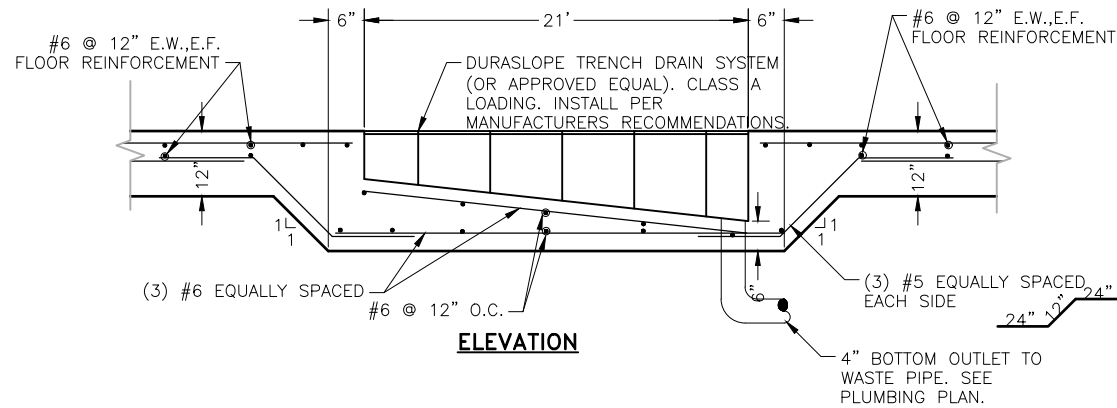
Project No.: W224.21029
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Design: MLD
Drawn: JBS/SNW
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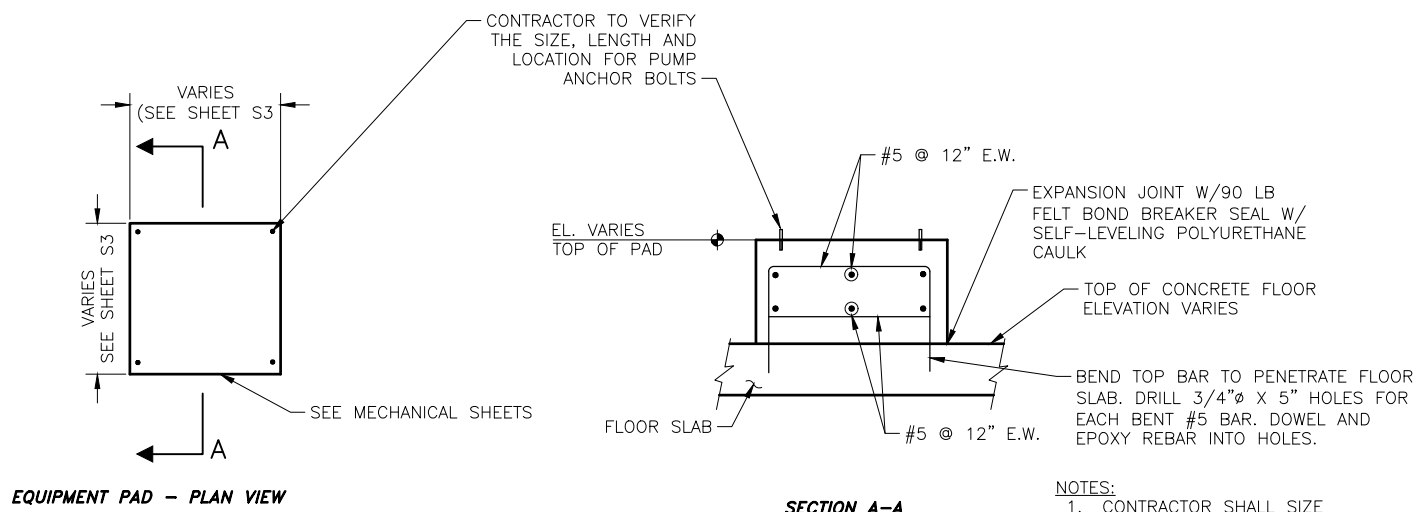
SECTION

PLAN



ELEVATION

A TRENCH DRAIN DETAIL
SCALE: N.T.S.

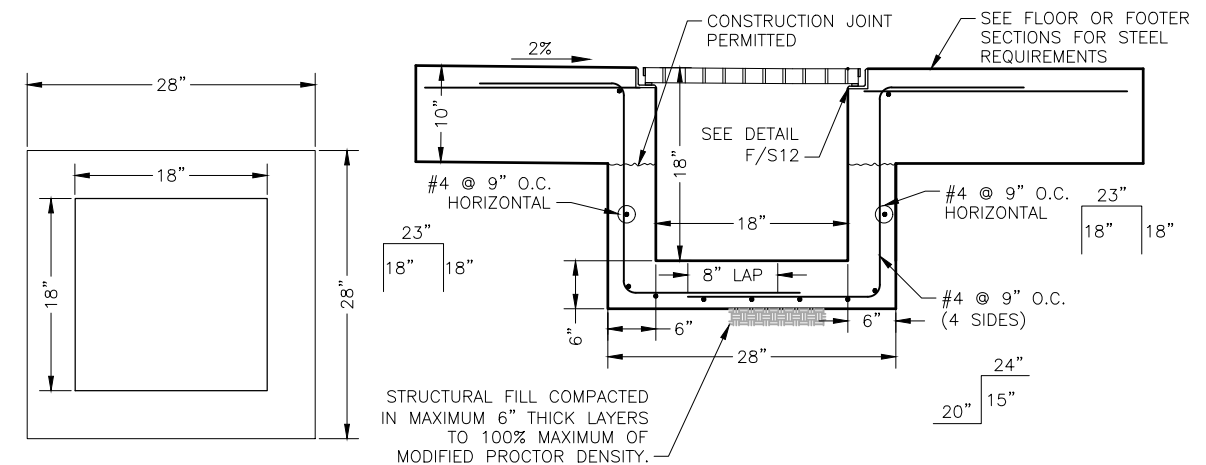


EQUIPMENT PAD - PLAN VIEW

SECTION A-A

B EQUIPMENT PAD DETAIL
SCALE: N.T.S.

NOTES:
1. CONTRACTOR SHALL SIZE EQUIPMENT PAD BASED ON EQUIPMENT AND MANUFACTURER'S RECOMMENDATIONS.



C SUMP DETAIL
SCALE: N.T.S.

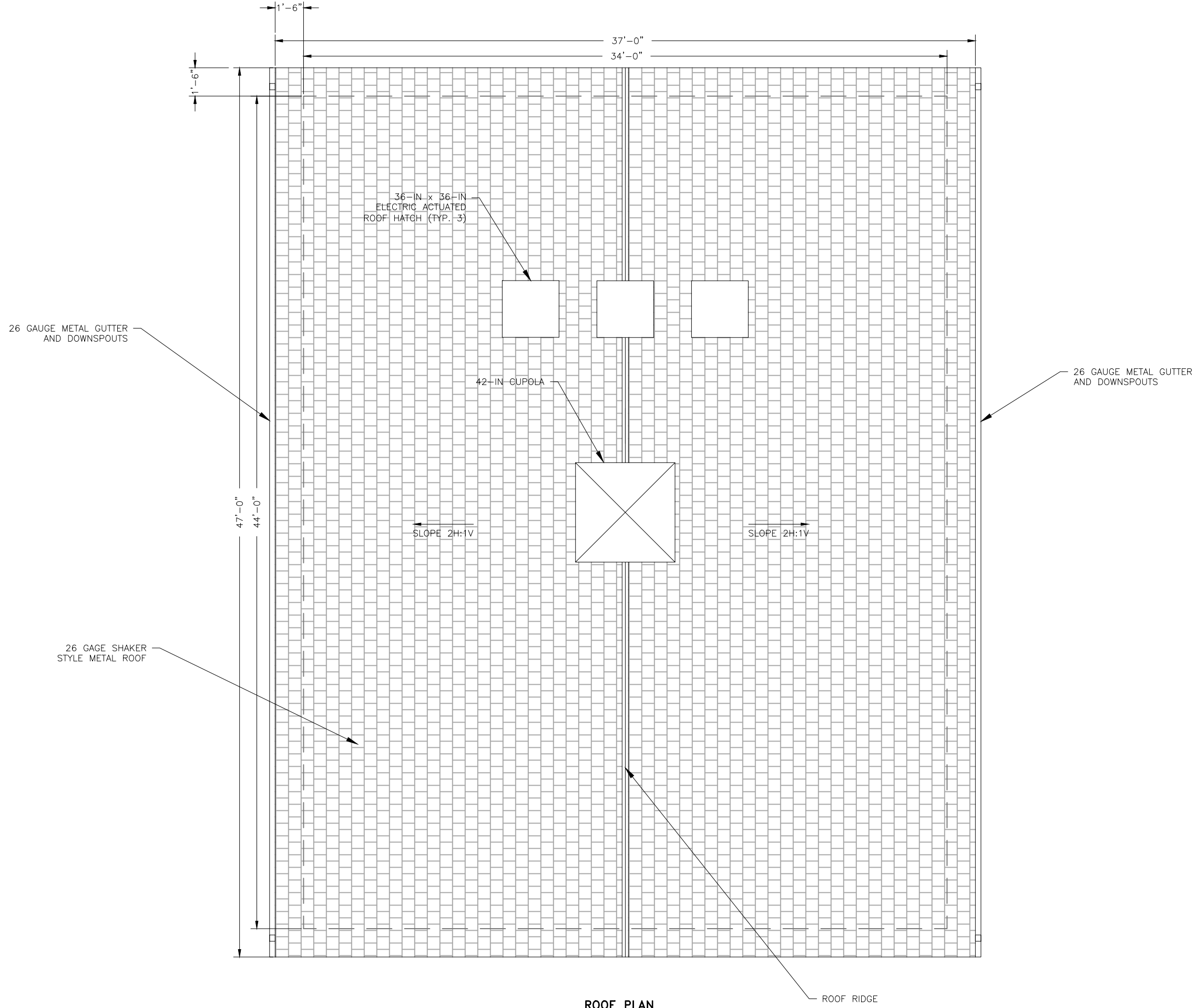
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ROOF PLAN
SCALE: 3/16"=1'-0"

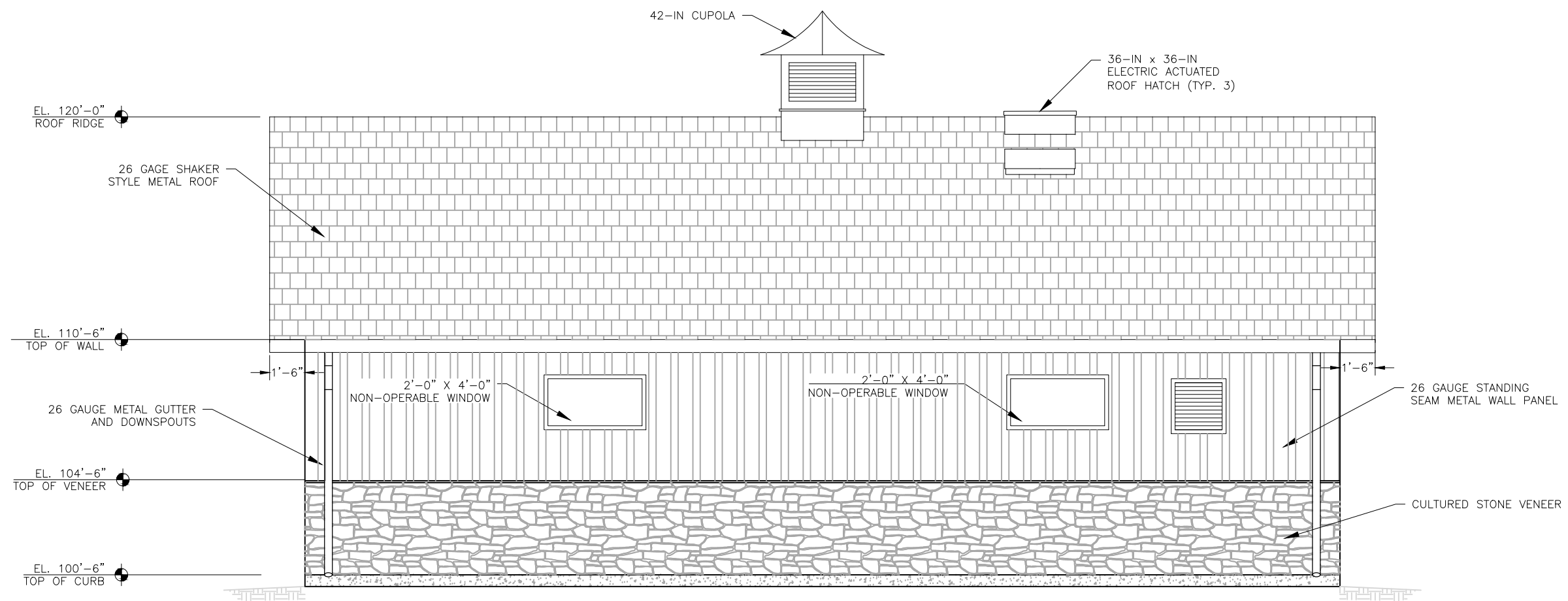
TRIVIEW METROPOLITAN DISTRICT
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
ARCHITECTURAL ROOF PLAN

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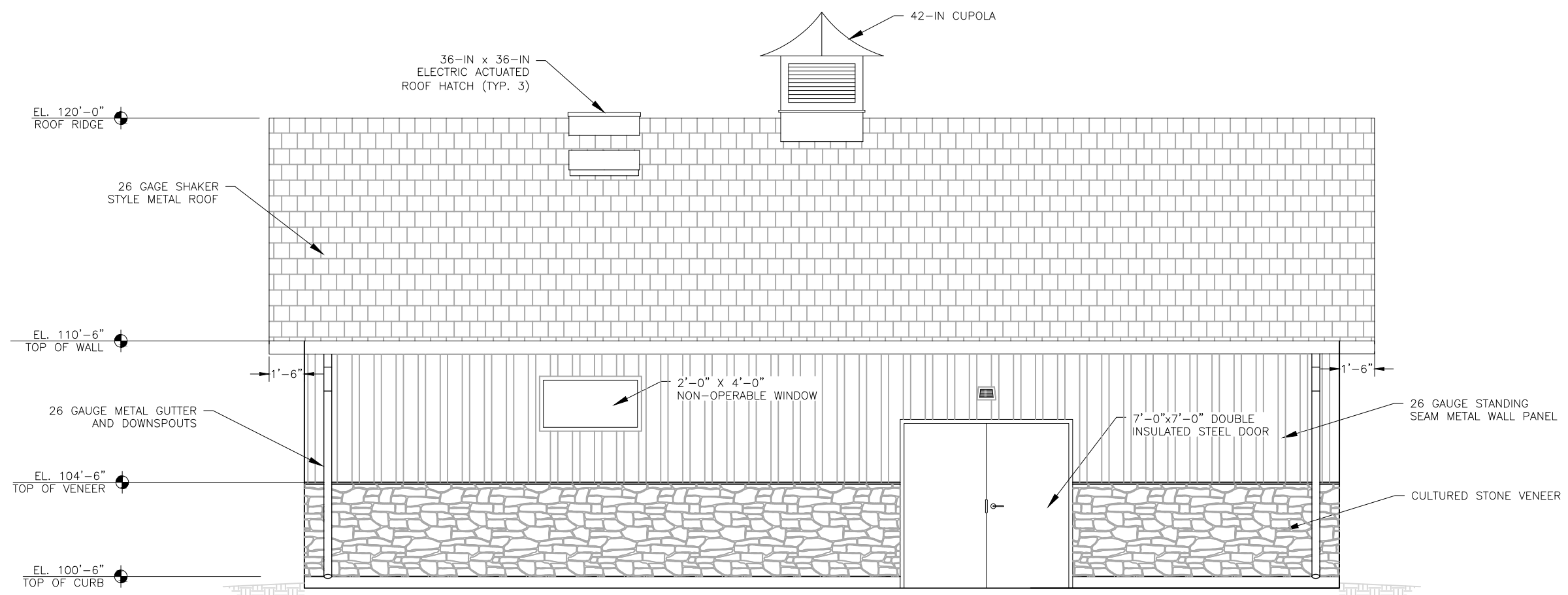
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EAST ELEVATION
SCALE: 3/16" = 1'-0"



WEST ELEVATION
SCALE: 3/16" = 1'-0"

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TRIVIEW METROPOLITAN DISTRICT
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
EAST & WEST BUILDING ELEVATIONS

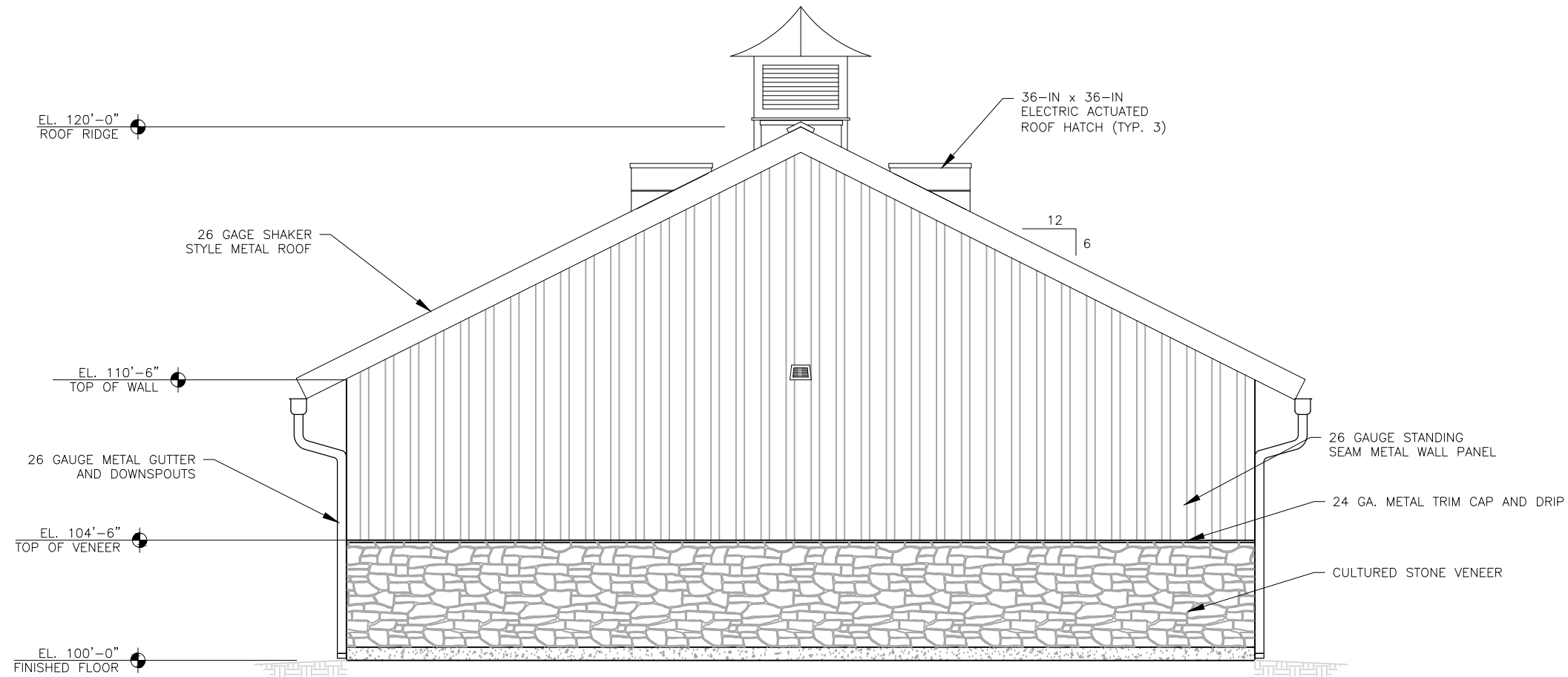
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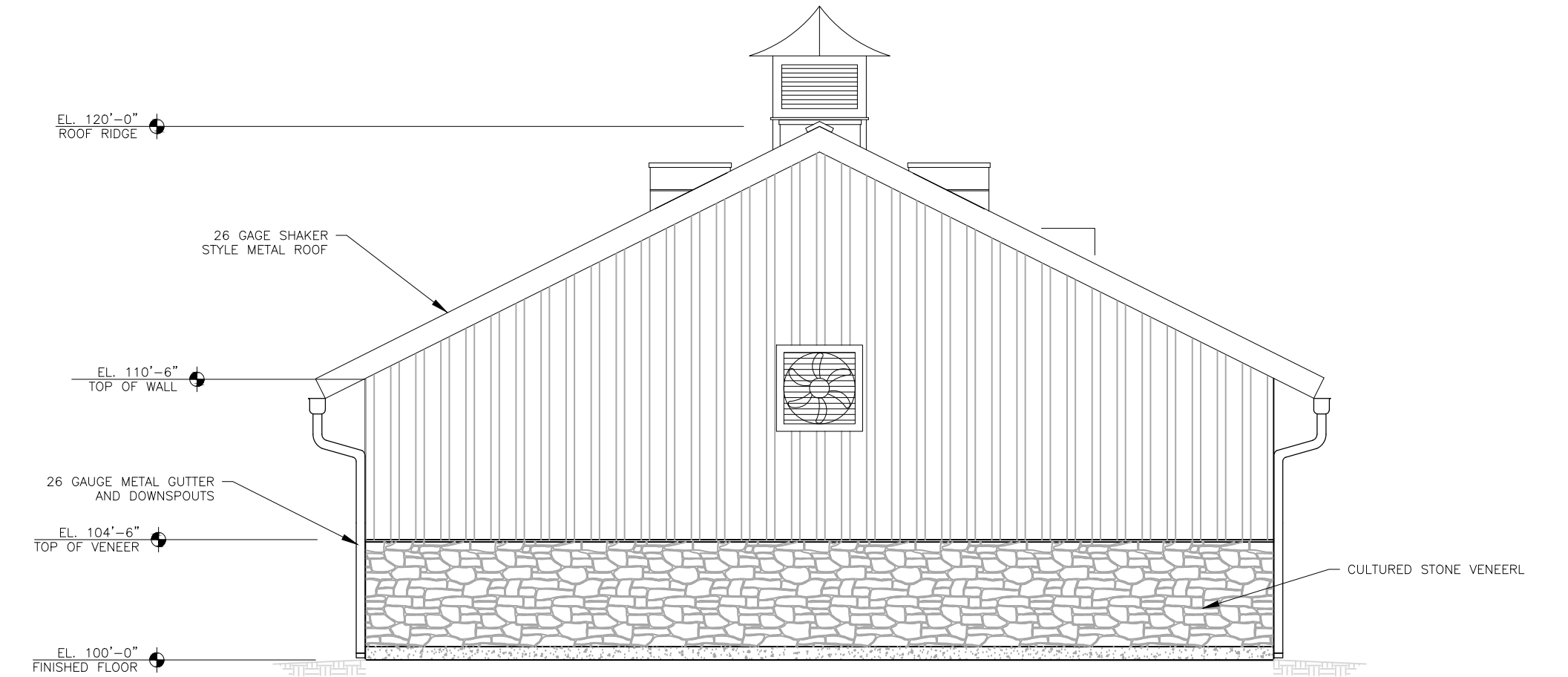
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NORTH ELEVATION
SCALE: 3/16" = 1'0"



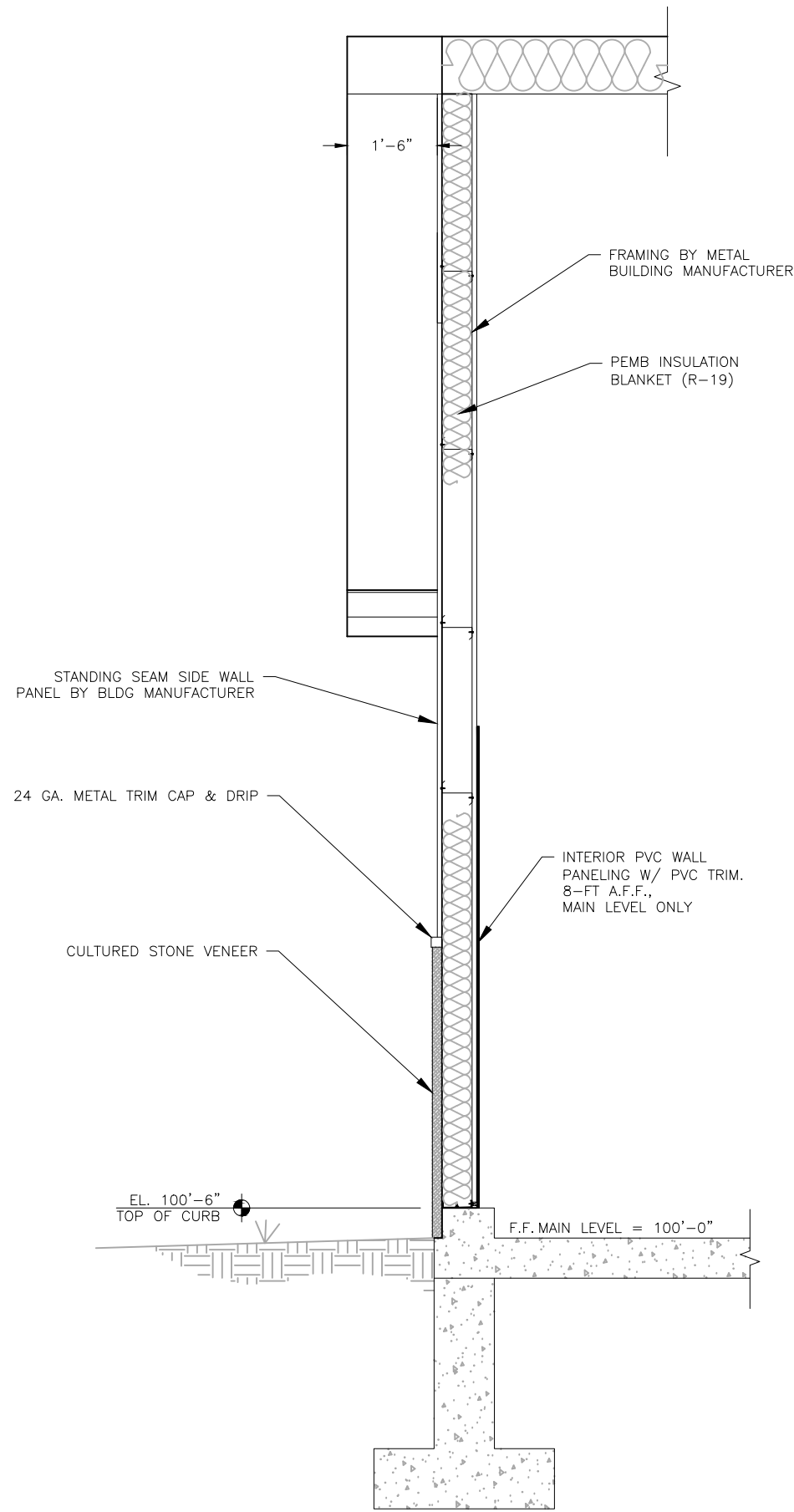
SOUTH ELEVATION
SCALE: 3/16" = 1'0"

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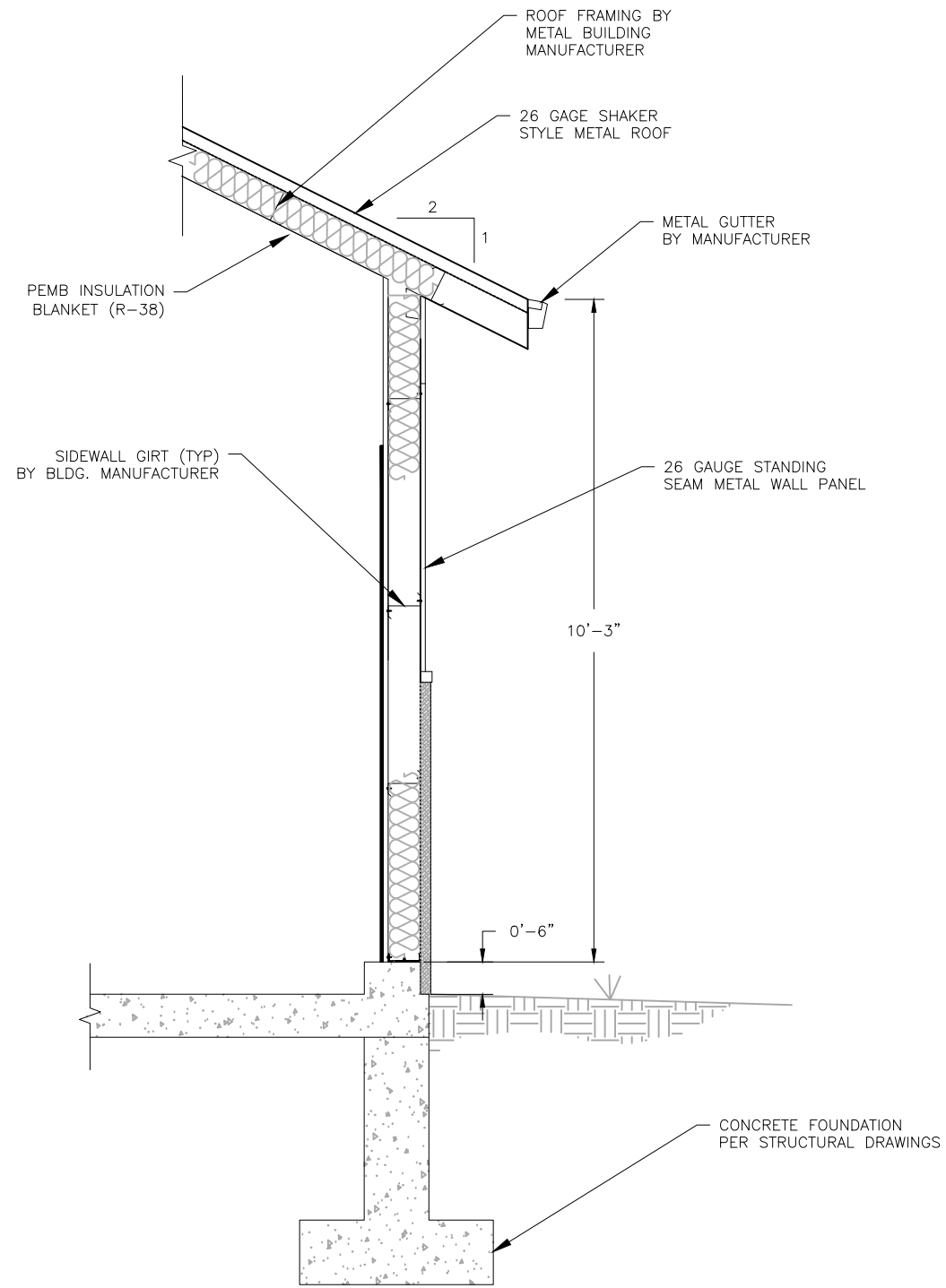
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A BUILDING SECTION
A5 SCALE: 3/8" = 1'-0"



B BUILDING SECTION
A5 SCALE: 3/8" = 1'-0"

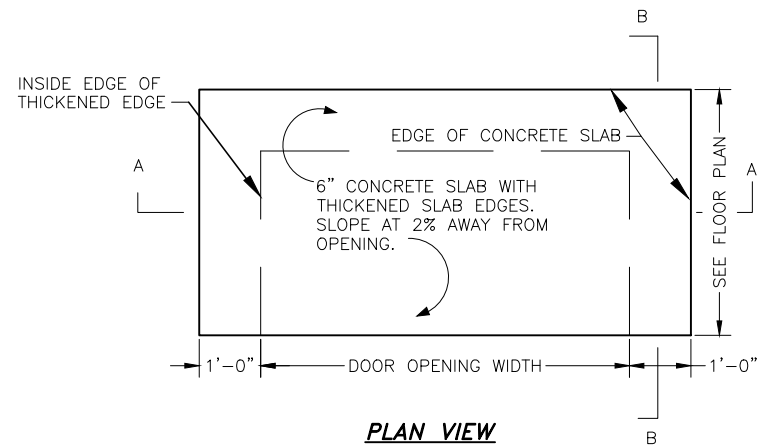
TRIVIEW METROPOLITAN DISTRICT
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
ARCHITECTURAL SECTIONS

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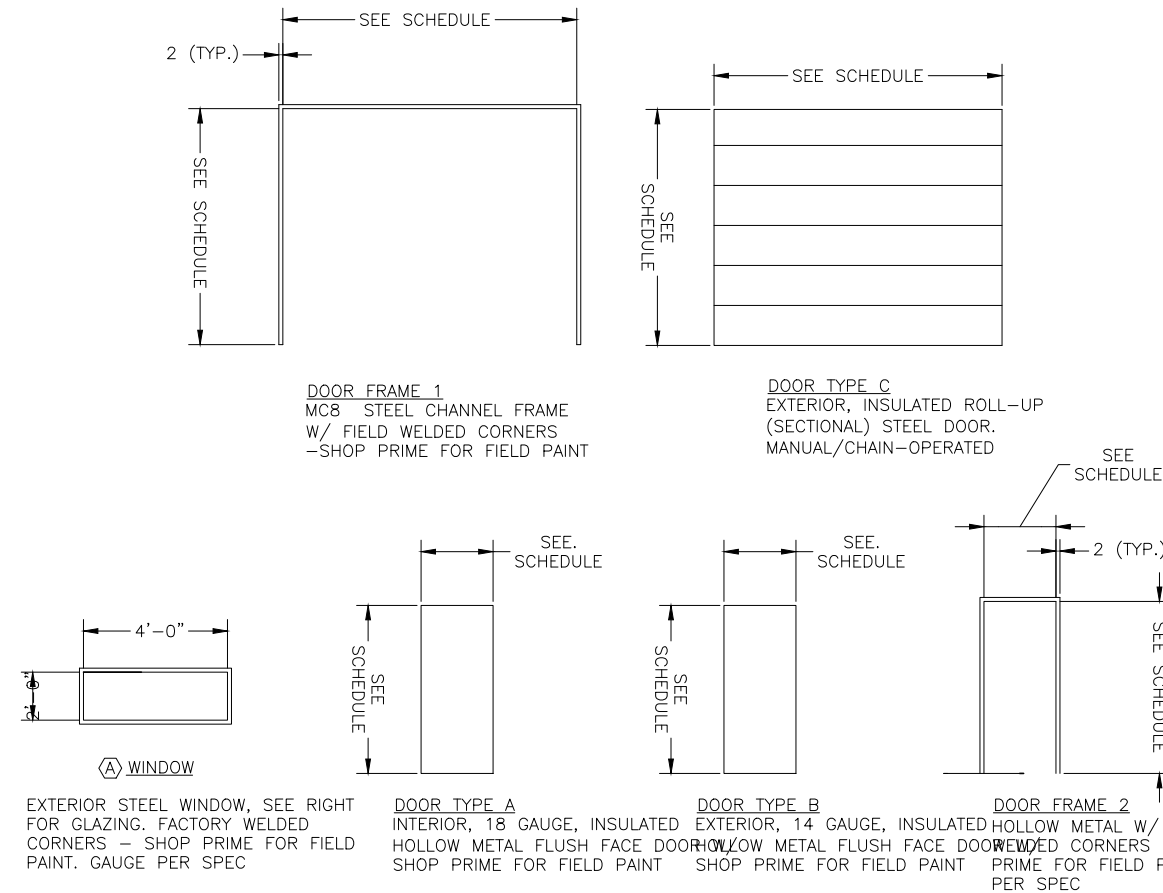
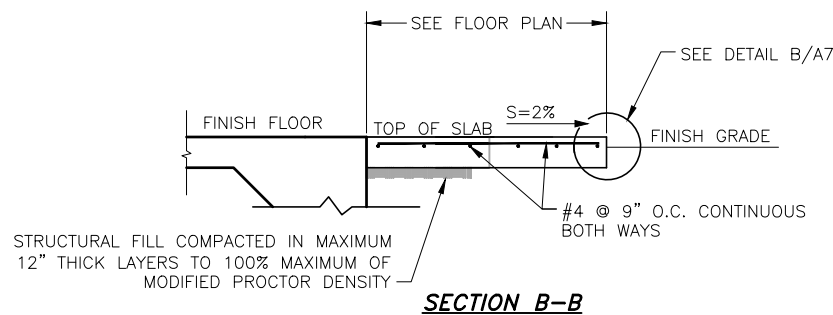
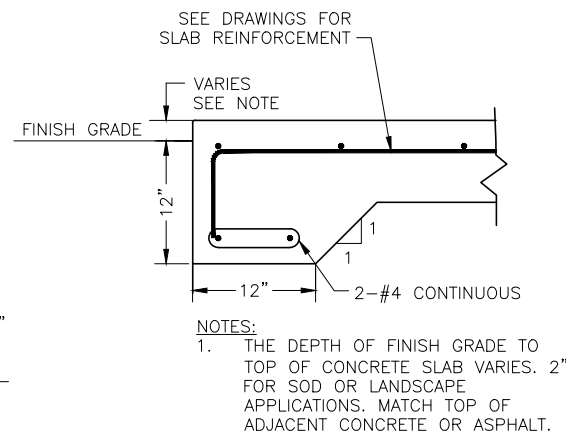
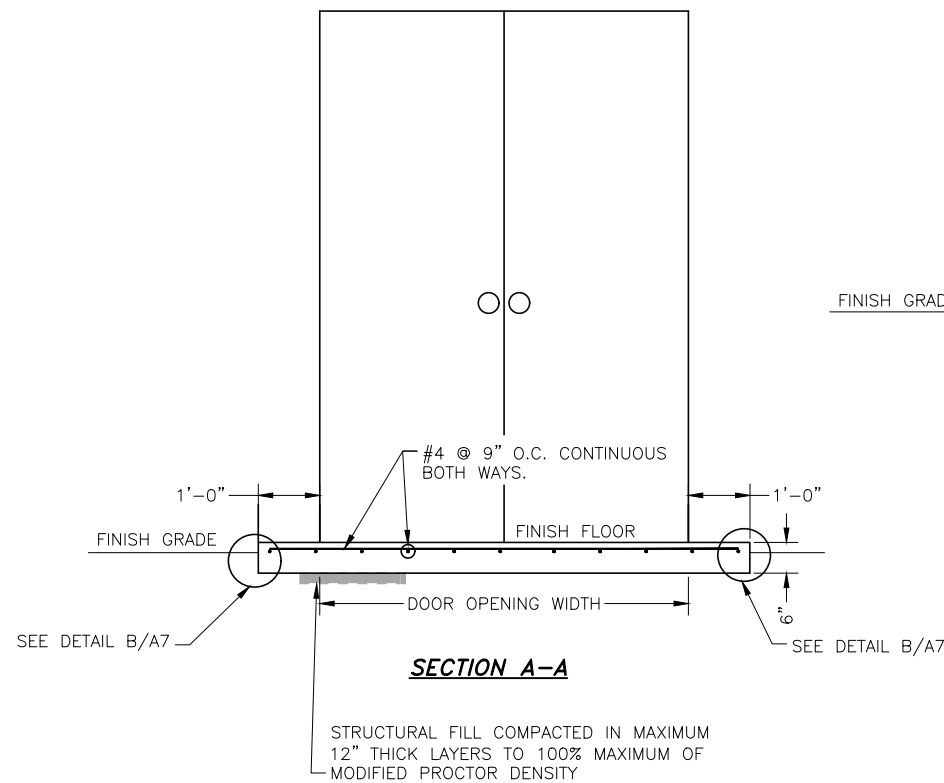
DOOR/WINDOW SCHEDULE									
PLAN MARK	SIZE (Width x Height)	DOOR			FRAME			*GLAZING TYPE	REMARKS
		TYPE	MAT'L.	FINISH	TYPE	MAT'L.	FINISH		
100A	7'-0" x 7'-0"	B	H.M.	PAINT	2	H.M.	PAINT		<ul style="list-style-type: none"> DOUBLE DOOR PANIC HARDWARE EXTERIOR INSULATED WITH MAX FACTOR = 0.34
A	2'-0" x 4'-0"				SEE BELOW	STEEL	PAINT	A	<ul style="list-style-type: none"> FIXED, MOUNT 6'-10" A.F.F. PRODUCT TO BE EVALUATED IN ACCORDANCE WITH NRFC, MAX U FACTOR = 0.25, SHGC = 0.27

*GLAZING LEGEND	
A	INSULATED, LAMINATED, LOW-E

FINISH LEGEND	
LABEL	FINISH
P-1	PAINT - FIELD - EGGSHELL

NOTES:

- OWNER TO SELECT ALL PAINT COLORS. SEE SPECIFICATIONS FOR FINISHES. VERIFY COLORS WITH OWNER PRIOR TO FABRICATION.
- ALL FINISH PATTERNS SHALL BE DETERMINED IN FIELD WITH OWNER AND ENGINEER PRIOR TO INSTALLATION.
- OWNER TO SELECT DOOR HARDWARE FINISH COLOR.
- OWNER TO SELECT PAINT COLOR FOR ALL PAINTED SURFACES INCLUDING DOORS, TRIM, AND EXTERIOR MATERIALS.
- ALL EXPOSED CONCRETE FLOOR SURFACES SHALL BE COATED WITH CLEAR WATERPROOFING PER SPECIFICATIONS.
- ALL INTERIOR DOOR AND FRAME PAINT TO MATCH EXTERIOR TRIM PAINT.
- ALL INTERIOR ROOMS/AREAS TO RECEIVE FIELD PAINT P-1 ON SURFACES WHERE APPLICABLE. OWNER TO APPROVE COLOR SAMPLE PRIOR TO PAINTING.



1 A6 DOORWAY LANDINGS AS SHOWN ON ARCHITECTURAL SHEETS
SCALE: N.T.S.

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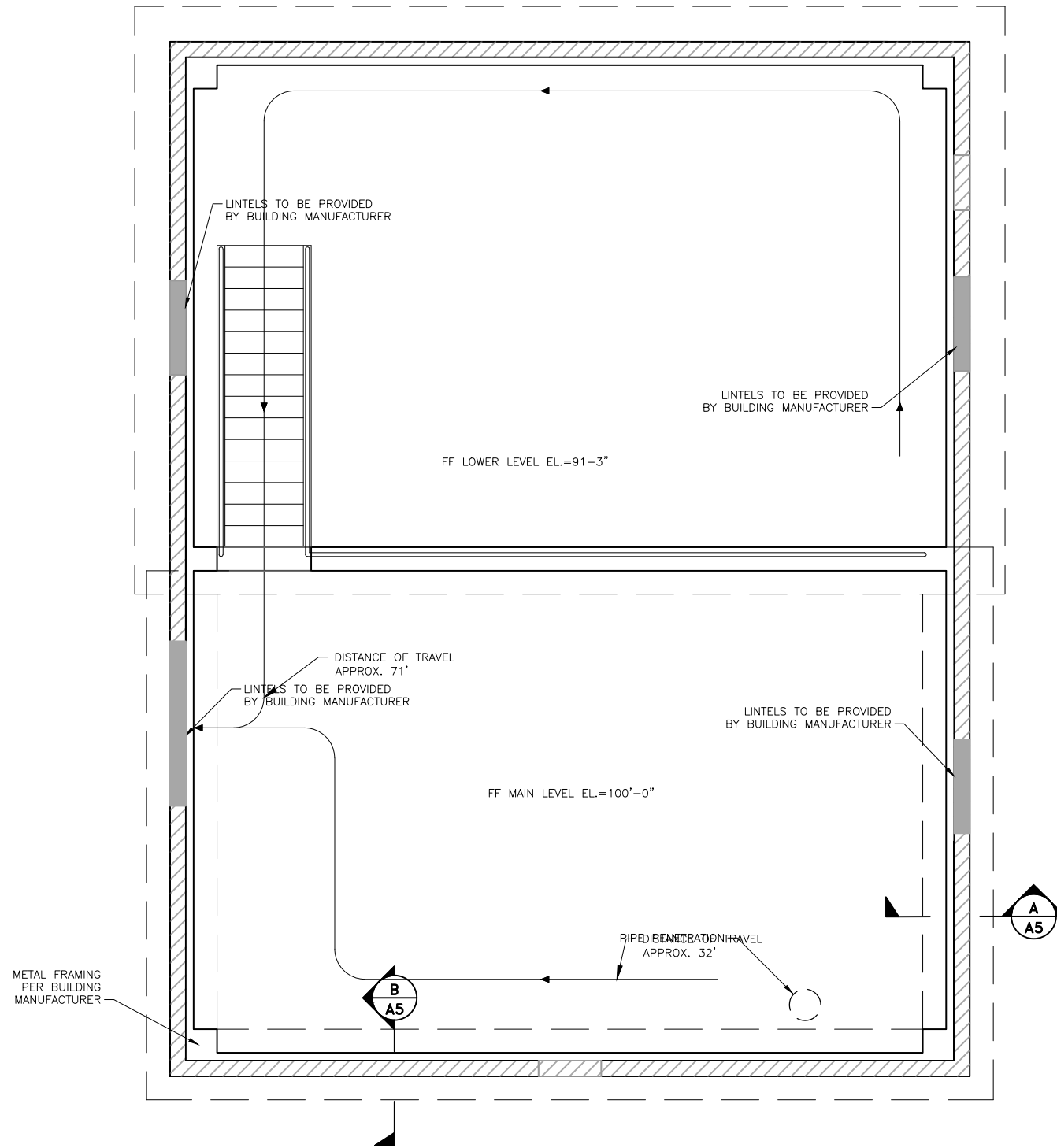
LIFE SAFETY PLAN CONFIRMATION:

- OCCUPANCY TYPE: UTILITY (U)
- NON-SEPARATED OCCUPANCY
- OCCUPANCY LOADING 1496 SF/100 = 14.96
- ALLOWABLE AREA CALCULATION:
 - $A_a = A_t + (NS \times I_f)$
 - $A_a = 8,500 + (8,500 \times 0)$
 - $A_a = 8,500$ sf
- INCIDENTAL USE AREAS: NONE
- EGRESS WIDTH REQUIREMENT
 - REQUIRED: $O.C. \text{ LOAD} \times 0.3" = 4.5"$
 - PROVIDED: STAIRS = 48"; EGRESS = 32" & 36"

CONSTRUCTION TYPE II-B

- MAXIMUM TRAVEL DISTANCE = 88' ±
- MAXIMUM COMMON PATH OF TRAVEL = 32' ±
- BUILDING IS NOT SPRINKLERED
- ITEMS NOT APPLICABLE:
 - FIRE WALLS
 - FIRE/SMOKE BARRIERS
 - FIRE/SMOKE PARTITIONS

NOTE:
FACILITY IS UNMANNED AND WILL BE PERIODICALLY ACCESSED ONLY BY OPERATIONS STAFF



ARCHITECTURAL LIFE SAFETY PLAN
SCALE: 1/8"=1'-0"

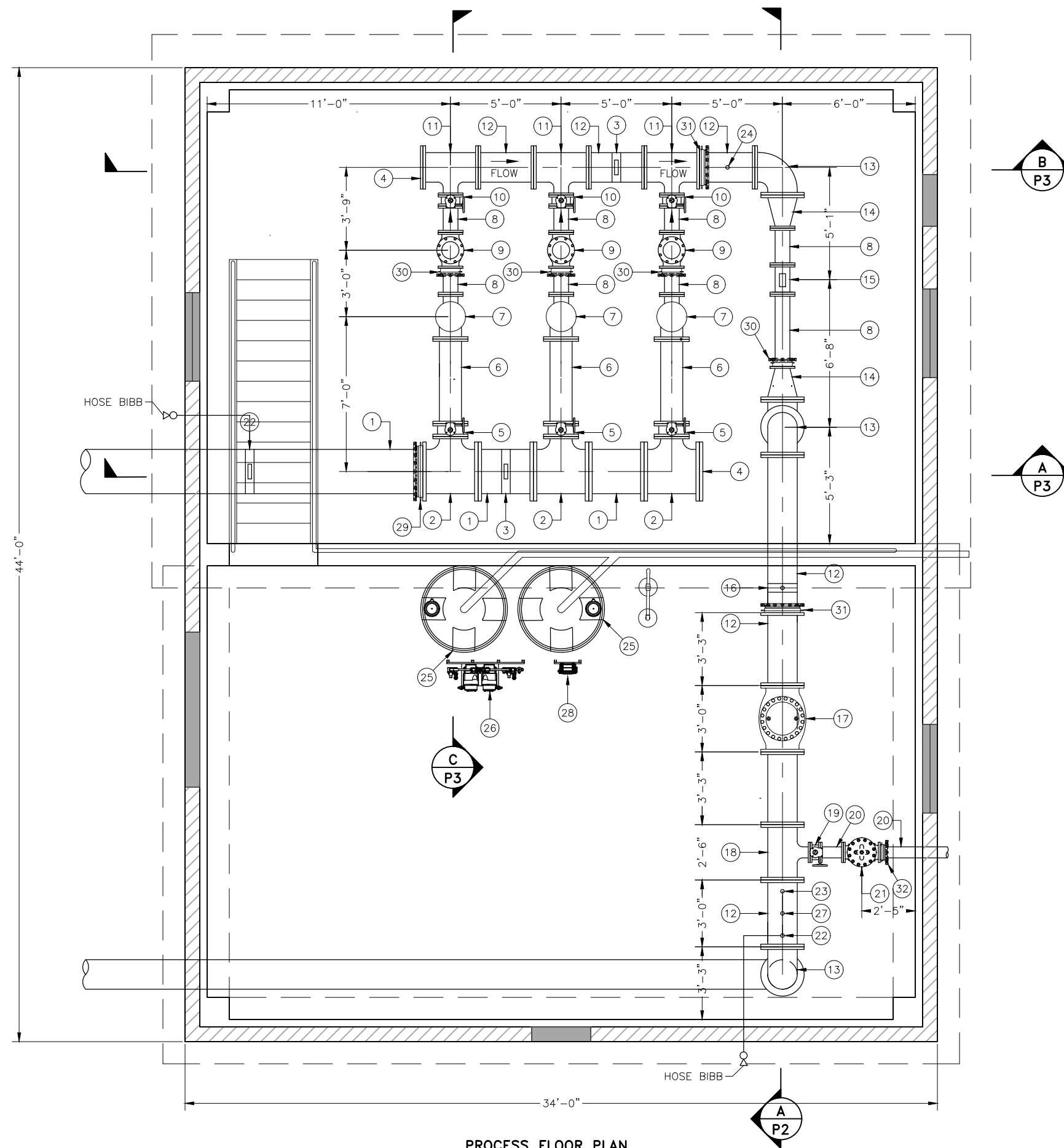
TRIVIEW METROPOLITAN DISTRICT
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
LIFE SAFETY PLAN

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PROCESS FLOOR PLAN
SCALE: 3/16" = 1' - 0"

SCHEDULE		
No.	SIZE	DESCRIPTION
1	24"	PIPE, PE, DIP
2	24"x12"	REDUCED TEE, FL, DIP
3	1"	PRESSURE INDICATOR/ TRANSMITTER ASSEMBLY. SEE DETAIL D/P4
4	24"	BLIND FLANGE
5	12"	BUTTERFLY VALVE W/ WHEEL LUG STYLE
6	12"	PIPE, FL, DIP
7	-	350 HP PUMP, SEE SPECS
8	8"	PIPE, FL, DIP
9	8"	CHECK VALVE, FL, DIP, CLA-VAL 81-02
10	8"	BUTTERFLY VALVE W/ WHEEL LUG STYLE
11	16"x8"	REDUCED TEE, FL, DIP
12	16"	PIPE, PE, DIP
13	16"	FLANGED 90 BEND
14	16x8"	CONCENTRIC REDUCER
15	8"	MAG METER, BADGER M2000
16	1"	AIR RELEASE VALVE, SEE DETAIL C/P4
17	16"	FLOW CONTROL VALVE, CLA-VAL 131-66
18	16"x6"	FLANGED TEE, EXPANDING, DIP
19	6"	BUTTERFLY VALVE W/ WHEEL LUG STYLE
20	6"	PIPE, PE, DIP
21	6"	SURGE VALVE, FL, CLA-VAL 52-03
22	3/4"	WATER QUALITY SAMPLE TAP
23	-	SURGE ANTICIPATOR TAP
24	-	CHLORINE INJECTION, SEE DETAIL A/P4
25	-	250 GALLON DOUBLE WALLED CHLORINE TANK
26	-	PERISTALTIC PUMPS
27	-	CHLORINE MONITORING, SEE DETAIL B/P4
28	-	CLT10SC ANALYZER
29	24"	MJ Fitting
30	8"	MJ Fitting
31	16"	MJ Fitting
32	6"	MJ Fitting

JDS-HYDRO a Division of **RESPEC**
5540 TECH CENTER DR., SUITE 100
COLORADO SPRINGS, COLORADO 80919
(719) 227-0072
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TRIVIEW METROPOLITAN DISTRICT
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
PROCESS FLOOR PLAN

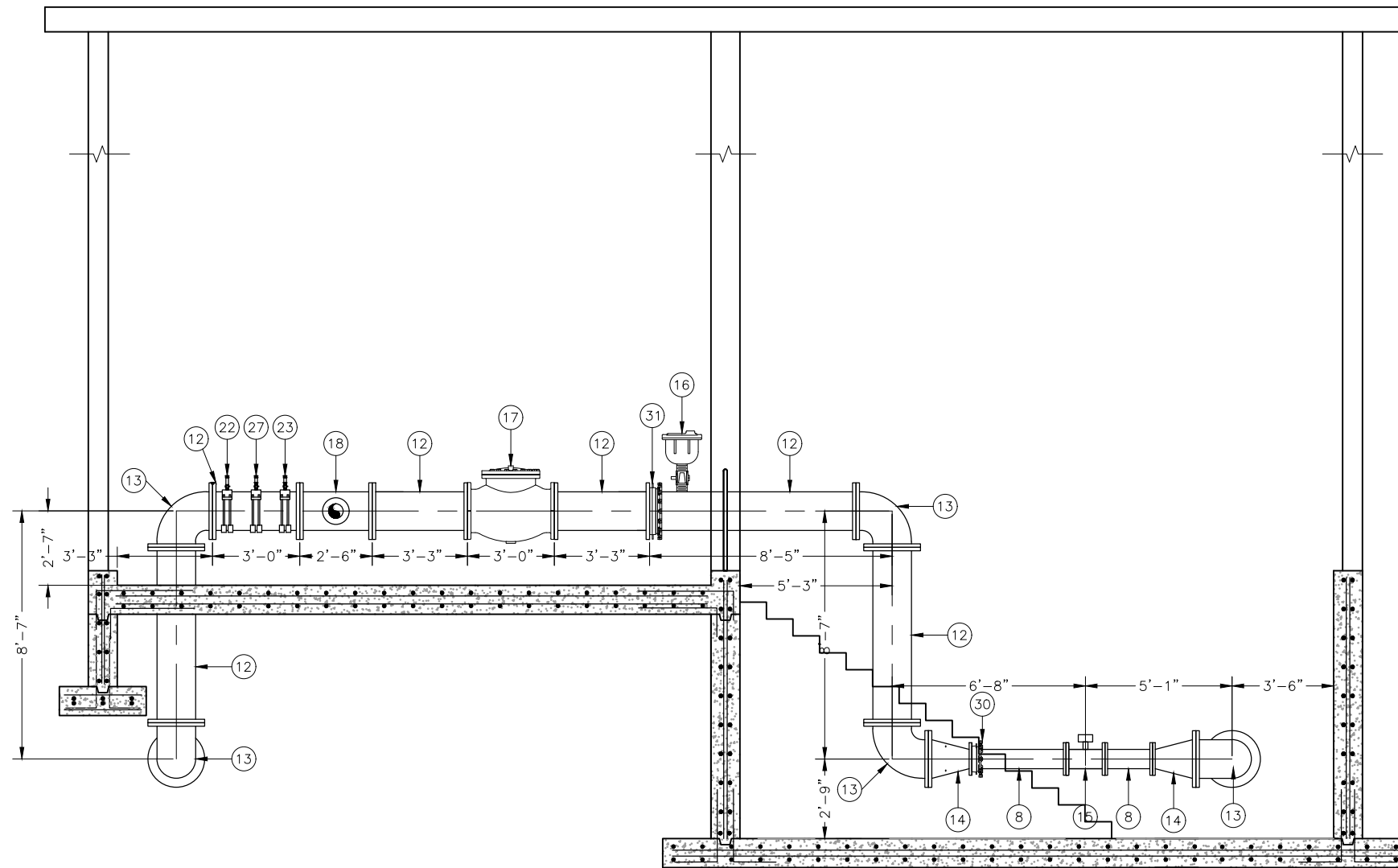
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70% DESIGN

Project No.: W224.21029
Date: 09/12/22
Design: GJD
Drawn: JBS/SNH
Check: MLD

P1
SHEET ----OF

2022/09/20 3:52 PM By: Alexis (Lex) Yoder N:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\04_Process\224029_Process.dwg



A METER / BACKFLOW PIPE SECTION
P2 SCALE: 3/16" = 1'-0"

SCHEDULE		
No.	SIZE	DESCRIPTION
1	24"	PIPE, PE, DIP
2	24"x12"	REDUCED TEE, FL, DIP
3	1"	PRESSURE INDICATOR/ TRANSMITTER ASSEMBLY. SEE DETAIL D/P4
4	24"	BLIND FLANGE
5	12"	BUTTERFLY VALVE W/ WHEEL LUG STYLE
6	12"	PIPE, FL, DIP
7	-	PUMP
8	8"	PIPE, FL, DIP
9	8"	CHECK VALVE, FL, DIP, CLA-VAL 81-02
10	8"	BUTTERFLY VALVE W/ WHEEL LUG STYLE
11	16"x8"	REDUCED TEE, FL, DIP
12	16"	PIPE, PE, DIP
13	16"	FLANGED 90 BEND
14	16x8"	CONCENTRIC REDUCER
15	8"	MAG METER, BADGER M2000
16	1"	AIR RELEASE VALVE, SEE DETAIL C/P4
17	16"	FLOW CONTROL VALVE, CLA-VAL 131-66
18	16"x6"	FLANGED TEE, EXPANDING, DIP
19	6"	BUTTERFLY VALVE W/ WHEEL LUG STYLE
20	6"	PIPE, PE, DIP
21	6"	SURGE VALVE, FL, CLA-VAL 52-03
22	3/4"	WATER QUALITY SAMPLE TAP
23	-	SURGE ANTICIPATOR TAP
24	-	CHLORINE INJECTION, SEE DETAIL A/P4
25	-	250 GALLON DOUBLE WALLED CHLORINE TANK
26	-	PERISTALTIC PUMPS
27	-	CHLORINE MONITORING, SEE DETAIL B/P4
28	-	CLT10SC ANALYZER
29	24"	MJ Fitting
30	8"	MJ Fitting
31	16"	MJ Fitting
32	6"	MJ Fitting

JDS-HYDRO a Division of **RESPEC**
 5540 TECH CENTER DR., SUITE 100
 COLORADO SPRINGS, COLORADO 80919
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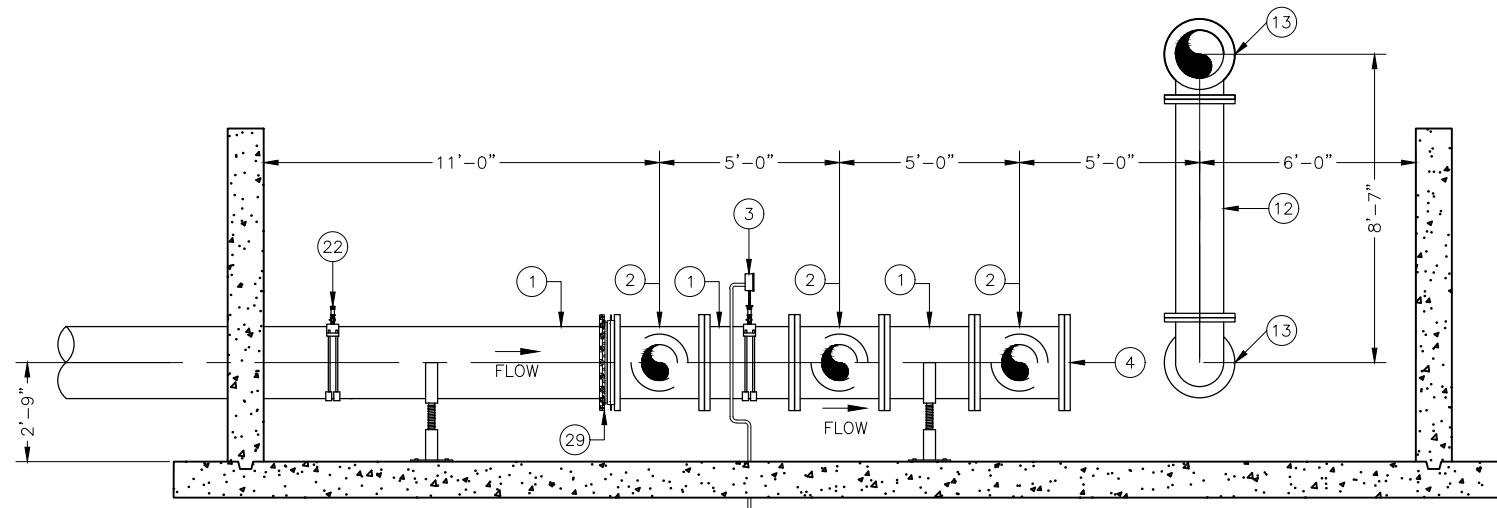
TRIVIEW METROPOLITAN DISTRICT
 NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
 PROCESS PIPE SECTIONS

NO.	DESCRIPTION	BY	APP.	DATE
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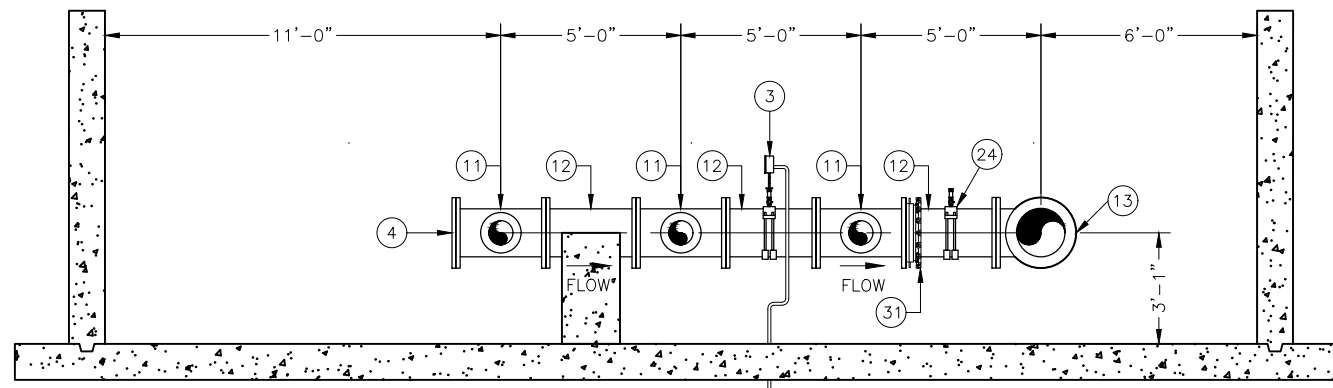
70% DESIGN

Project No.: W224.21029
 Date: 09/12/22
 Design: GJD
 Drawn: JBS
 Check: MLD

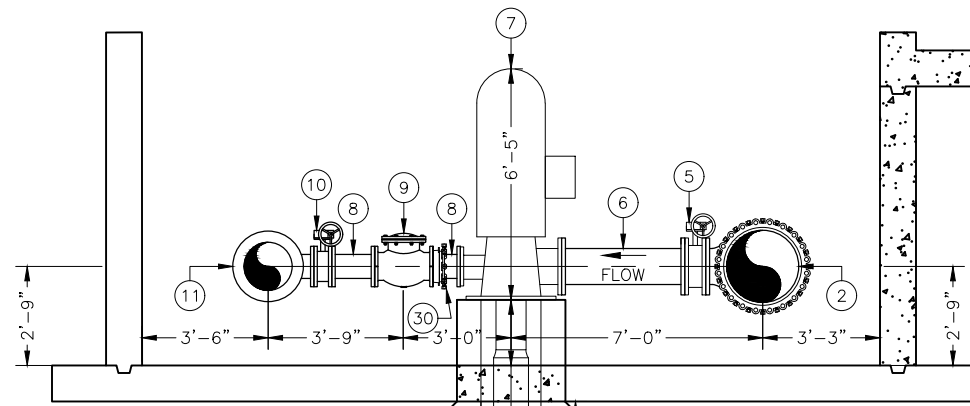
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A METER / BACKFLOW PIPE SECTION
P3 SCALE: 3/16" = 1'-0"



B INLET PIPE SECTION
P3 SCALE: 3/16" = 1'-0"



C PUMP DISCHARGE SECTION
P3 SCALE: 3/16" = 1'-0"

SCHEDULE		
No.	SIZE	DESCRIPTION
1	24"	PIPE, PE, DIP
2	24"x12"	REDUCED TEE, FL, DIP
3	1"	PRESSURE INDICATOR/ TRANSMITTER ASSEMBLY. SEE DETAIL D/P4
4	24"	BLIND FLANGE
5	12"	BUTTERFLY VALVE W/ WHEEL LUG STYLE
6	12"	PIPE, FL, DIP
7	-	PUMP
8	8"	PIPE, FL, DIP
9	8"	CHECK VALVE, FL, DIP, CLA-VAL 81-02
10	8"	BUTTERFLY VALVE W/ WHEEL LUG STYLE
11	16"x8"	REDUCED TEE, FL, DIP
12	16"	PIPE, PE, DIP
13	16"	FLANGED 90 BEND
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22	3/4"	WATER QUALITY SAMPLE TAP
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25	-	250 GALLON DOUBLE WALLED CHLORINE TANK
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27	-	CHLORINE MONITORING, SEE DETAIL B/P4
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TRIVIEW METROPOLITAN DISTRICT
 NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
 PROCESS PIPE SECTIONS

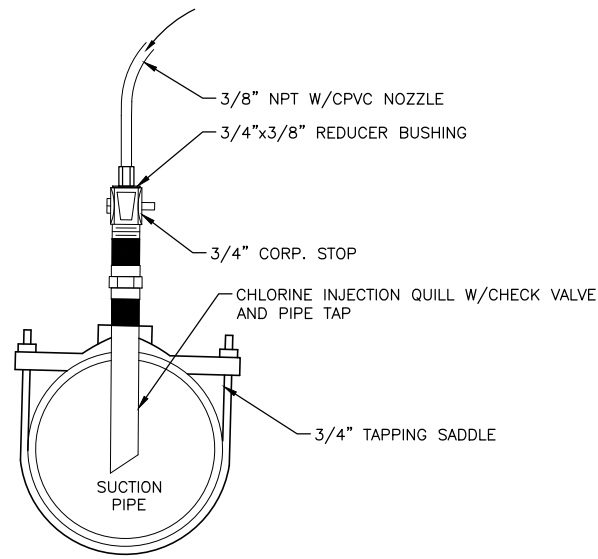
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70% DESIGN

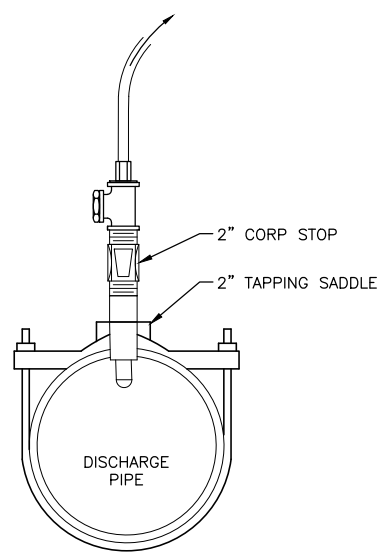
Project No.: W224.21029
 Date: 09/12/22
 Design: GJD
 Drawn: JBS
 Check: MLD

P3
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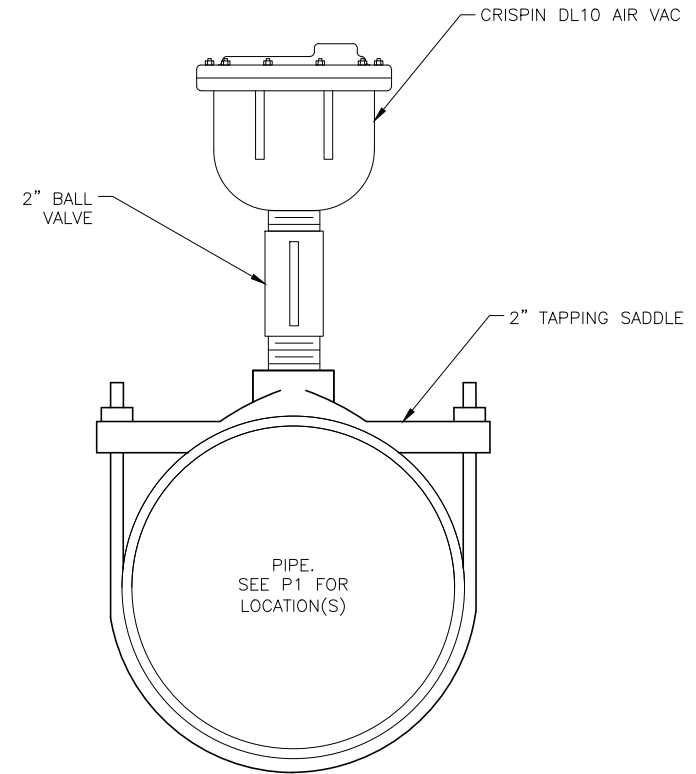
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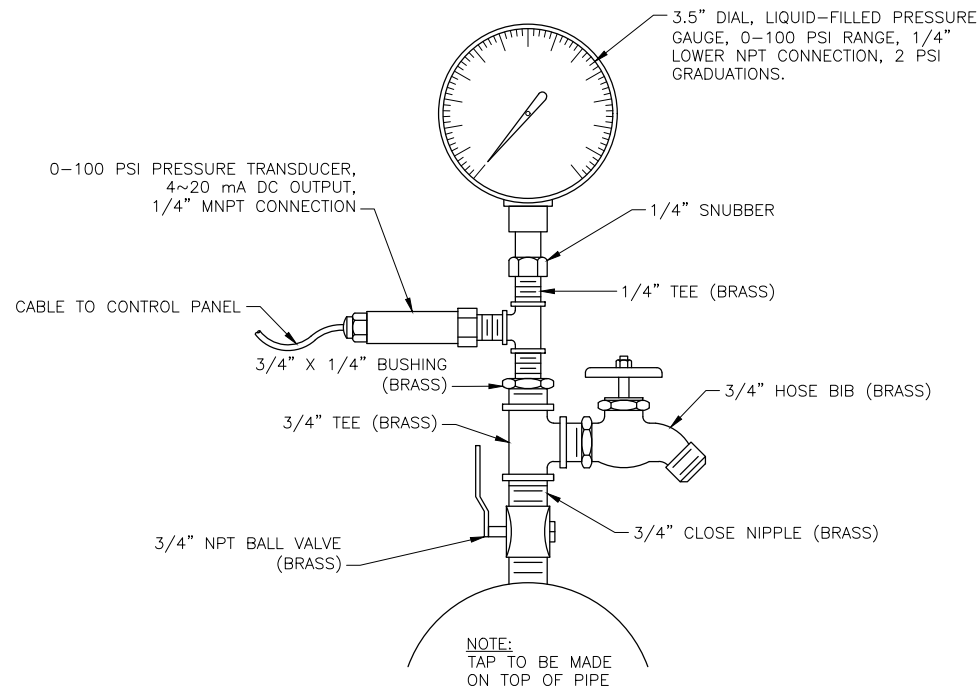
A CHLORINE INJECTION DETAIL
P4 SCALE: N.T.S.



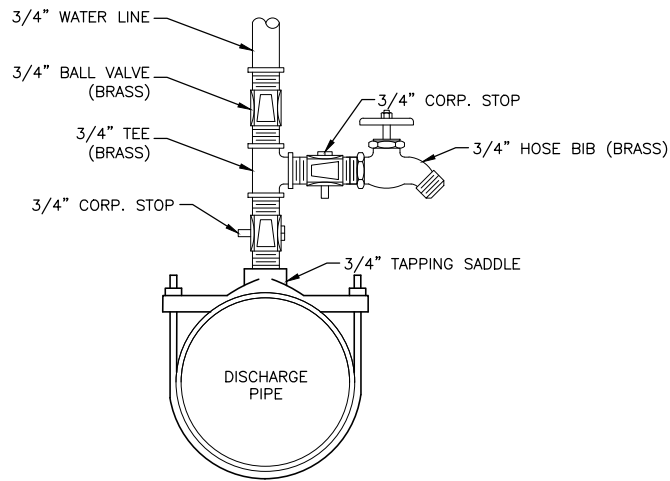
B CHLORINE ANALYZER DETAIL
P4 SCALE: N.T.S.



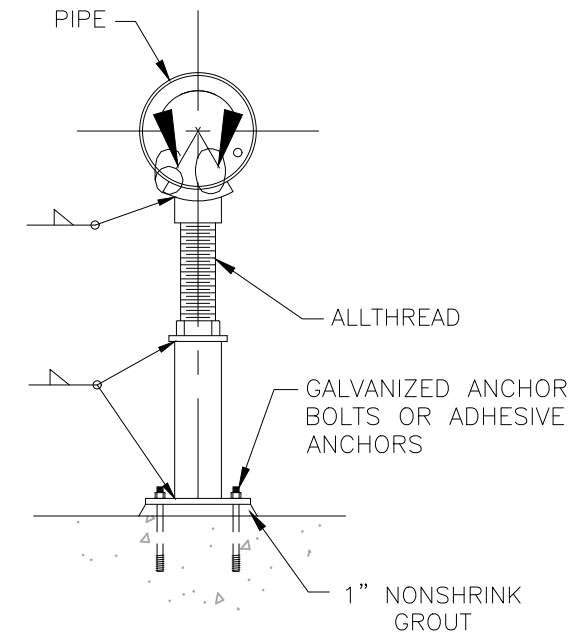
C AIR VAC DETAIL
P4 SCALE: N.T.S.



D PRESSURE INDICATOR/TRANSMITTER ASSEMBLY
P4 SCALE: N.T.S.



E 3/4" HOUSE WATER TAP DETAIL
P4 SCALE: N.T.S.



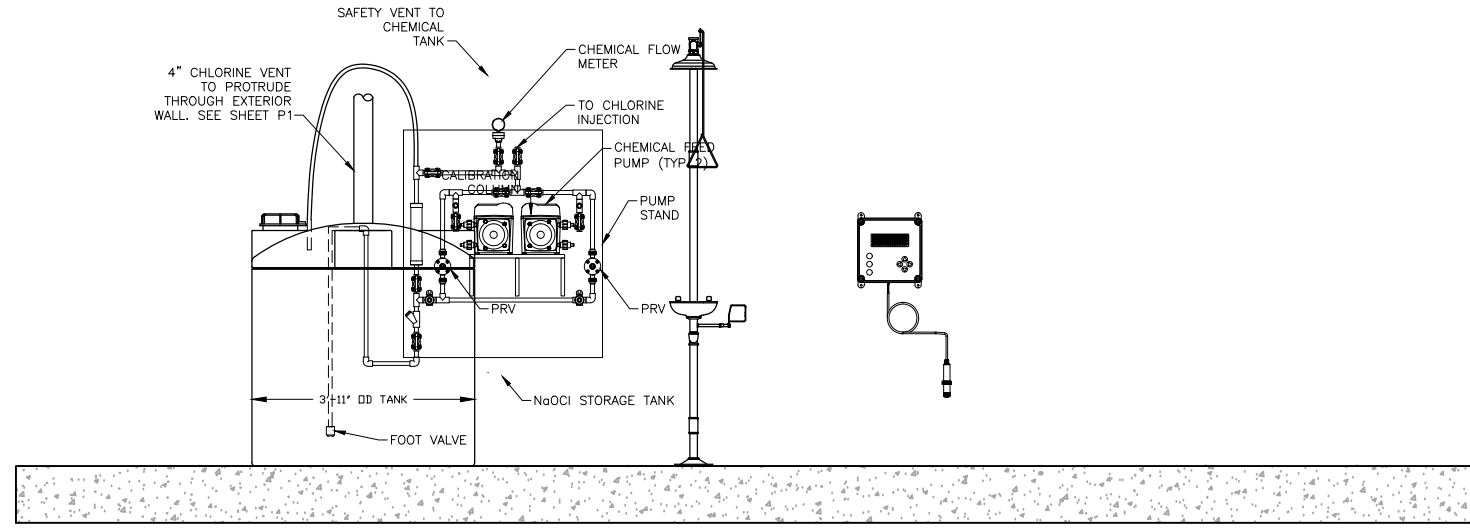
F ADJUSTABLE PIPE SUPPORT DETAIL
P4 SCALE: N.T.S.

NO.	DESCRIPTION	BY	APP.	DATE
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70% DESIGN

Project No.: W224.21029
 Date: 09/12/22
 Design: MLD
 Drawn: JBS
 Check: MLD

2022/09/20 3:53 PM By: Alexis (Lex) Yoder N:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\04_Process\224029_Process.dwg



A
P5 CHEMICAL DOSING SYSTEM
SCALE: N.T.S.

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TRIVIEW METROPOLITAN DISTRICT
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
PROCESS DETAILS

NO.	DESCRIPTION	BY	APP.	DATE
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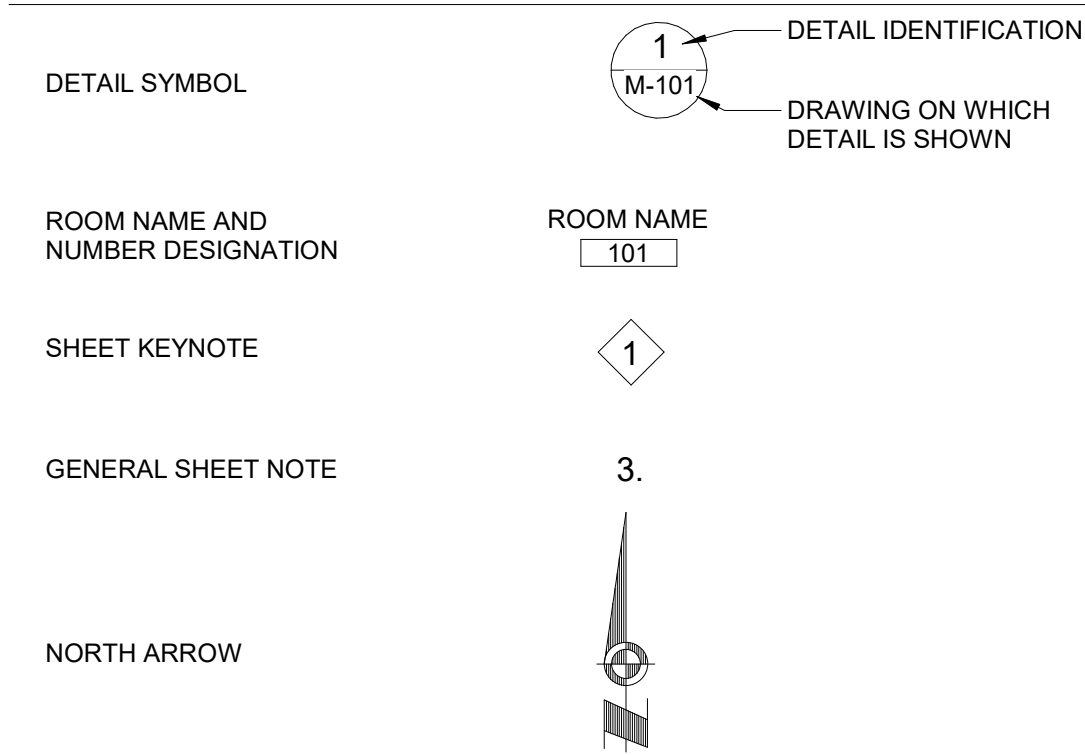
70% DESIGN

Project No.: W224.21029
Date: 09/12/22
Design: MLD
Drawn: JBS
Check: MLD

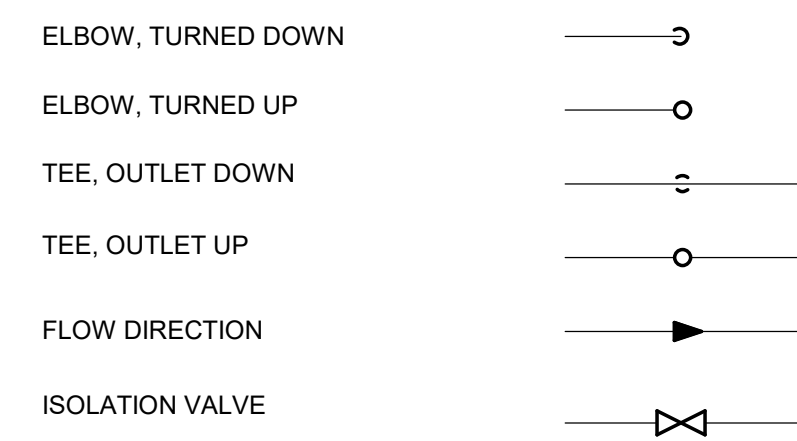
P5
SHEET ---- OF

1" IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING ITS PRODUCTION, AFFECTING ALL LABELED SCALES.

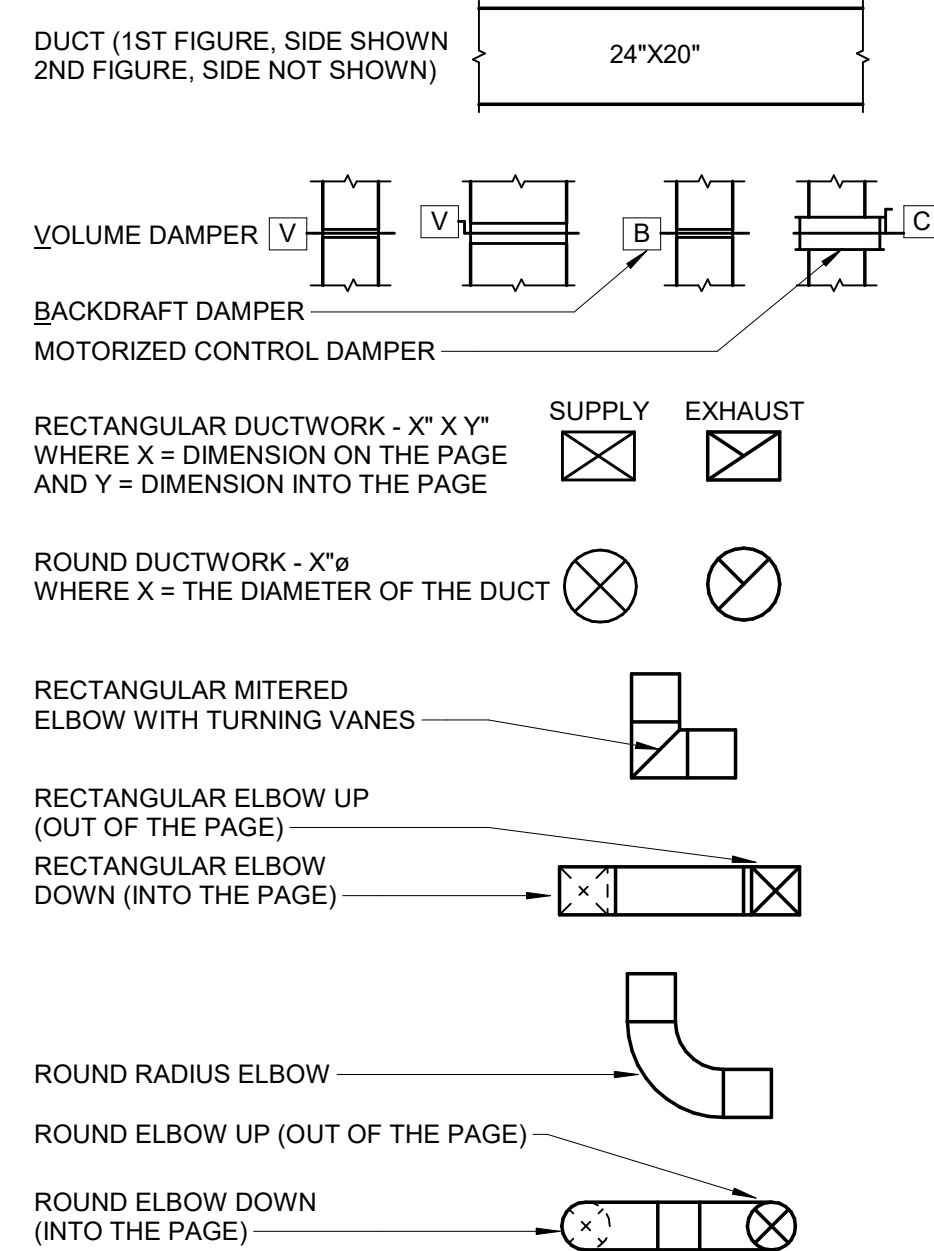
GENERAL



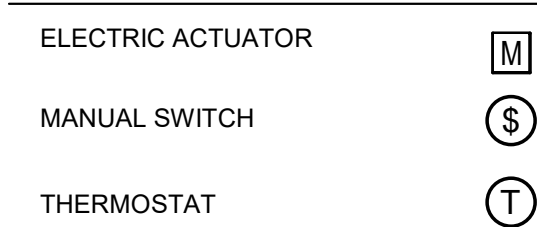
PIPE FITTINGS & VALVES



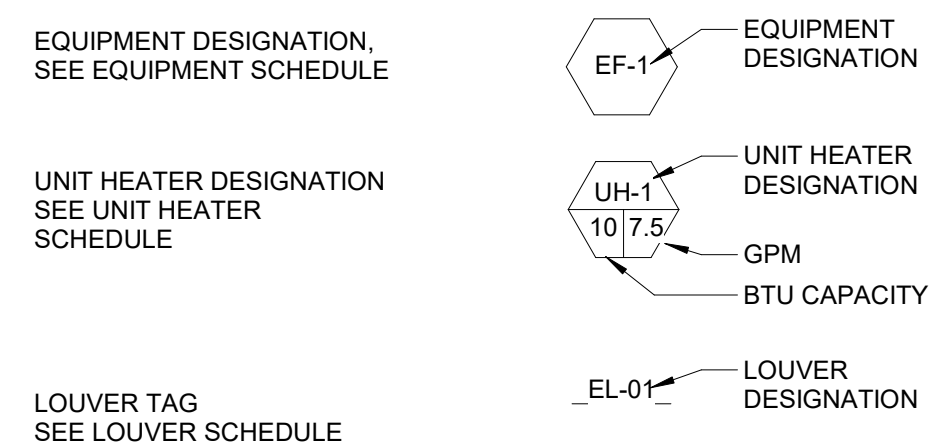
DUCT LEGEND



CONTROLS LEGEND



MECHANICAL TAGS



ABBREVIATIONS

ACFM	ACTUAL CUBIC FEET PER MINUTE
AFF	ABOVE FINISHED FLOOR
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CLNG	CEILING
CONT	CONTINUATION, CONTINUED
CU	COPPER
DIA	DIAMETER
DN	DOWN
EA	EXHAUST AIR
EBB	ELECTRIC BASEBOARD
EF	EXHAUST FAN
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
EUH	ELECTRIC UNIT HEATER
FT	FEET
GPM	GALLONS PER MINUTE
HP	HORSE POWER
HZ	HERTZ
IN	INCHES
LF	LINEAL FEET
LVG	LEAVING
MAX	MAXIMUM
MBH	THOUSAND BTU's PER HOUR
MIN	MINIMUM
MISC	MISCELLANEOUS
OA	OUTSIDE AIR
OC	ON CENTER
OCC	OCCUPANCY
OSA	OUTSIDE AIR SUPPLY
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
PSI	POUNDS PER SQUARE INCH
RFL	REFRIGERANT LIQUID
RFS	REFRIGERANT SUCTION
SCH	SCHEDULE
SF	SQUARE FEET
SQFT	SQUARE FEET
SS	STAINLESS STEEL
TEMP	TEMPERATURE
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
UON	UNLESS OTHERWISE NOTED
W/	WITH

SEQUENCE OF OPERATIONS

CONSULTANT :

**NOT FOR
CONSTRUCTION**

Anchorage, AK
2700 Gambell St, Ste. 500
Anchorage, AK 99503
Phone: 907.743.3200
Fax: 907.473.3295
AECI163270



PROJECT :

**NORTHERN REGIONAL WATER
DELIVERY PROJECT**

TRIVIEW METROPOLITAN DISTRICT

SHEET TITLE :

LEGENDS AND ABBREVIATIONS

70% DESIGN DEVELOPMENT

DESIGN	JWC
DRAWN	CSB
CHECKED	MAJ
DATE	08/05/2022

PROJECT No.
22429

SHEET NUMBER

M-001

No.	Date	Item
REVISIONS		

OUTDOOR AIR SCHEDULE

NOTES:

1. CFM VALUES ARE ROUNDED UP TO THE NEAREST 5 CFM.

ROOM NAME	OCCUPANCY CLASSIFICATION	AZ AREA (SF)	Pz		OCC DENSITY (#/1,000 SF)	Rp (CFM/PERSON)	Ra (CFM/SF)	EA RATE (CFM/FIXTURE)	Vbz (CFM)	EZ	Voz OA REQUIREMENT (CFM)	SYSTEM OA CAPACITY (CFM)	COMMENTS
			OCCUPANTS	FIXTURES									
BOOSTER PUMP STATION	STORAGE - WAREHOUSES	1,420	0	N/A	0	0	0.06	0	90	0.8	110	1,935	SERVED BY EF-1 SYSTEM.

ELECTRIC HEATER SCHEDULE

NOTES:

MARK	TYPE	CAPACITY (KW)	CFM	RPM	ELECTRICAL			BASIS OF DESIGN		COMMENTS
					V	PH	HZ	MANUFACTURER	MODEL	
EUH-1A	ELECTRIC UNIT HEATER - HORIZONTAL	12.5			480	3	60	MODINE	HER125	PROVIDE WITH FACTORY INSTALLED INTEGRAL DISCONNECT.
EUH-1B	ELECTRIC UNIT HEATER - HORIZONTAL	12.5			480	3	60	MODINE	HER125	PROVIDE WITH FACTORY INSTALLED INTEGRAL DISCONNECT.

FAN SCHEDULE

NOTES:

MARK	SERVICE	CFM	ESP (IN. WC)	TYPE	DRIVE	RPM	ELECTRICAL					BASIS OF DESIGN		COMMENTS
							HP	V	HZ	PH	VFD	MANUFACTURER	MODEL	
EF-1	BOOSTER PUMP STATION	1,935	0.75	SIWALL EXHAUST FAN	DIRECT	1,750	1/2	120	60	1	No	GREENHECK	AER-24	PROVIDE WITH WALL HOUSING, 45-DEGREE WEATHERHOOD, BACKDRAFT DAMPER, AND FACTORY INSTALLED INTEGRAL DISCONNECT.

LOUVER SCHEDULE

NOTES:

MARK	SYSTEM DESCRIPTION	CFM	HEIGHT (IN)	WIDTH (IN)	FREE AREA (SQ. FT.)	DELTA P-MAX (IN W.G.)	BASIS OF DESIGN		COMMENTS
							MANUFACTURER	MODEL	
L-1	OSA INTAKE	1,935	28	28	2.7	0.085	GREENHECK	ESD-635	PROVIDE WEATHER LOUVER WITH DRAINABLE BLADES.

AIR CONDITIONING UNIT SCHEDULE

NOTES:

1. TOTAL SYSTEM REFRIGERANT CHARGE OF 59.6 LBS.

MARK	LOCATION	COP	EER	CAPACITY		CFM	REFRIGERANT TYPE	ELECTRICAL				BASIS OF DESIGN		COMMENTS
				HEATING (BTUH)	COOLING (TONS)			MCA	V	HZ	PH	MANUFACTURER	MODEL	
IDU-1A	BOOST PUMP STATION - MAIN LEVEL	-	-	2.8	2.5	920	R410A	0.63	240	60	1	TRANE		PROVIDE WITH PACKAGE FILTERS, CONDENSATE PUMP, AND INTEGRAL DISCONNECT.
IDU-1B	BOOST PUMP STATION - MAIN LEVEL	-	-	2.8	2.5	920	R410A	0.63	240	60	1	TRANE		PROVIDE WITH PACKAGE FILTERS, CONDENSATE PUMP, AND INTEGRAL DISCONNECT.
IDU-2A	BOOST PUMP STATION - LOWER LEVEL	-	-	2.8	2.5	920	R410A	0.63	240	60	1	TRANE		PROVIDE WITH PACKAGE FILTERS, CONDENSATE PUMP, AND INTEGRAL DISCONNECT.
IDU-2B	BOOST PUMP STATION - LOWER LEVEL	-	-	2.8	2.5	920	R410A	0.63	240	60	1	TRANE		PROVIDE WITH PACKAGE FILTERS, CONDENSATE PUMP, AND INTEGRAL DISCONNECT.
IDU-2C	BOOST PUMP STATION - LOWER LEVEL	-	-	2.8	2.5	920	R410A	0.63	240	60	1	TRANE		PROVIDE WITH PACKAGE FILTERS, CONDENSATE PUMP, AND INTEGRAL DISCONNECT.
IDU-2D	BOOST PUMP STATION - LOWER LEVEL	-	-	2.8	2.5	920	R410A	0.63	240	60	1	TRANE		PROVIDE WITH PACKAGE FILTERS, CONDENSATE PUMP, AND INTEGRAL DISCONNECT.
ODU-1A	OUTDOORS	4.1	12.1	6.6	6.0	6,700	R410A	17.0	480	60	3	TRANE		PART OF TWINNED AIR-SOURCE HEAT PUMP PACKAGE. PROVIDE PACKAGE WITH TWINNING KIT, SNOW/HAIL GUARDS KITS, AND LOW AMBIENT KIT FOR EQUIPMENT OPERATION DOWN TO MINUS (-)20 DEGREES FAHRENHEIT.
ODU-1B	OUTDOORS	4.1	12.1	6.6	6.0	6,700	R410A	17.0	480	60	3	TRANE		PART OF TWINNED AIR-SOURCE HEAT PUMP PACKAGE. PROVIDE PACKAGE WITH TWINNING KIT, SNOW/HAIL GUARDS KITS, AND LOW AMBIENT KIT FOR EQUIPMENT OPERATION DOWN TO MINUS (-)20 DEGREES FAHRENHEIT.

CONSULTANT :

NOT FOR CONSTRUCTION

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 2700 Gambell St, Ste. 500
 Anchorage, AK 99503
 Phone: 907.743.3200
 Fax: 907.473.3295
 AECC163270



PROJECT :

NORTHERN REGIONAL WATER DELIVERY PROJECT

TRIVIEW METROPOLITAN DISTRICT

SHEET TITLE :

SCHEDULES

70% DESIGN DEVELOPMENT

DESIGN	JWC
DRAWN	CSB
CHECKED	MAIL
DATE	08/05/2022

PROJECT No.
22429
 SHEET NUMBER

M-002

No.	Date	Item
REVISIONS		

SPECIFICATIONS

PART 1 - GENERAL

PART 2 - PRODUCTS

PART 3 - EXECUTION

CONSULTANT :

**NOT FOR
CONSTRUCTION**

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2700 Gambell St, Ste. 500
Anchorage, AK 99503
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PROJECT :
**NORTHERN REGIONAL WATER
DELIVERY PROJECT**
TRIVIEW METROPOLITAN DISTRICT

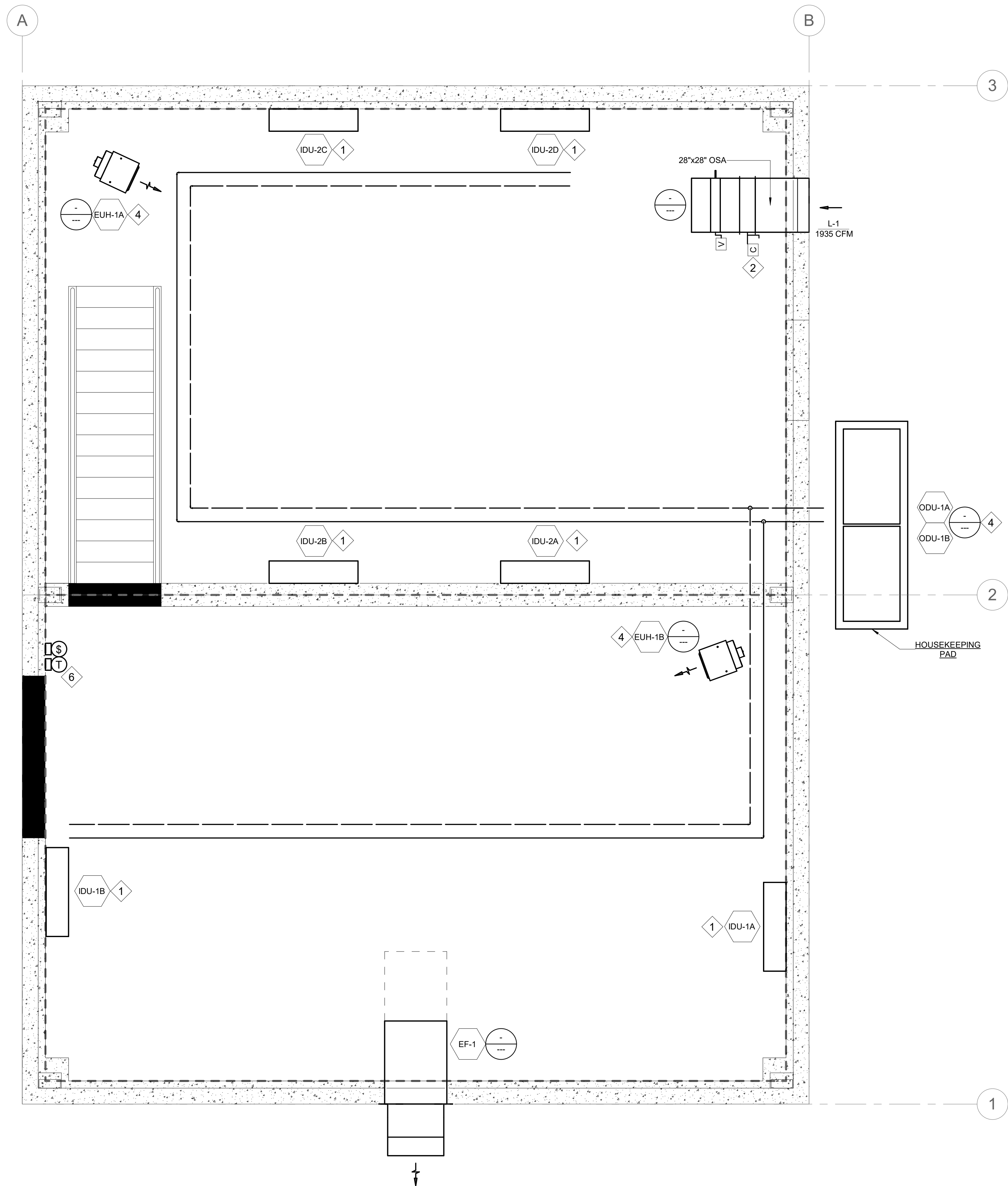
SHEET TITLE :
SPECIFICATIONS
70% DESIGN DEVELOPMENT

DESIGN	JWC
DRAWN	CSB
CHECKED	MMJ
DATE	08/05/2022

PROJECT No.
22429
SHEET NUMBER

M-003

No.	Date	Item
REVISIONS		



1 HVAC PLAN
M-101 SCALE: 3/8" = 1'-0"

SHEET NOTES

1. INSULATE DUCTWORK AND EQUIPMENT.
2. PROVIDE MAINTENANCE AND OPERATION CLEARANCES PER MANUFACTURER RECOMMENDATIONS.
3. ROUTE REFRIGERANT AND CONDENSATE PIPING TO AVOID PASSING OVER ELECTRICAL EQUIPMENT.
4. PER 2015 IMC, THE MAXIMUM ALLOWABLE SPACE CHARGE FOR REFRIGERANT 410A IS 26 LBS OF REFRIGERANT PER 1,000 CUBIC FEET, THE CHARGE ALLOWED IS:
 $[(14,784 \text{ CF} + 8,736 \text{ CF}) / 1,000 \text{ CF}] * 26 \text{ LBS} = 611 \text{ LBS}$.
 THE MINI-SPLIT SYSTEM CHARGE OF 59.6 LBS IS BELOW THE MAX ALLOWABLE CHARGE OF 611 LBS FOR R-410A.

SHEET KEYNOTES #

1. ROUTE CONDENSATE DRAIN TO NEAREST APPROVED PLUMBING FIXTURE PER THE 2018 IPC, SECTIONS 314.2. SIZE CONDENSATE DRAIN PER MANUFACTURER REQUIREMENTS.
2. INTERLOCK CONTROL DAMPER WITH EXHAUST FAN OPERATION.
3. MOUNT ODU ON METAL FRAMING MINIMUM 12-INCHES ABOVE HOUSE KEEPING PAD.
4. MOUNT ELECTRIC UNIT HEATER 10 FT AFF.
5. PROVIDE ROOM THERMOSTAT FOR CONTROL OF EUH-1A AND EUH-1B.

CONSULTANT :

NOT FOR CONSTRUCTION

Anchorage, AK
2700 Gambell St, Ste. 500
Anchorage, AK 99503
Phone: 907.743.3200
Fax: 907.473.3295
AECI163270

PROJECT :
NORTHERN REGIONAL WATER DELIVERY PROJECT
TRIVIEW METROPOLITAN DISTRICT

SHEET TITLE :
HVAC PLAN
70% DESIGN DEVELOPMENT

DESIGN	JWC
DRAWN	CSB
CHECKED	MJL
DATE	08/05/2022

PROJECT No.
22429
SHEET NUMBER

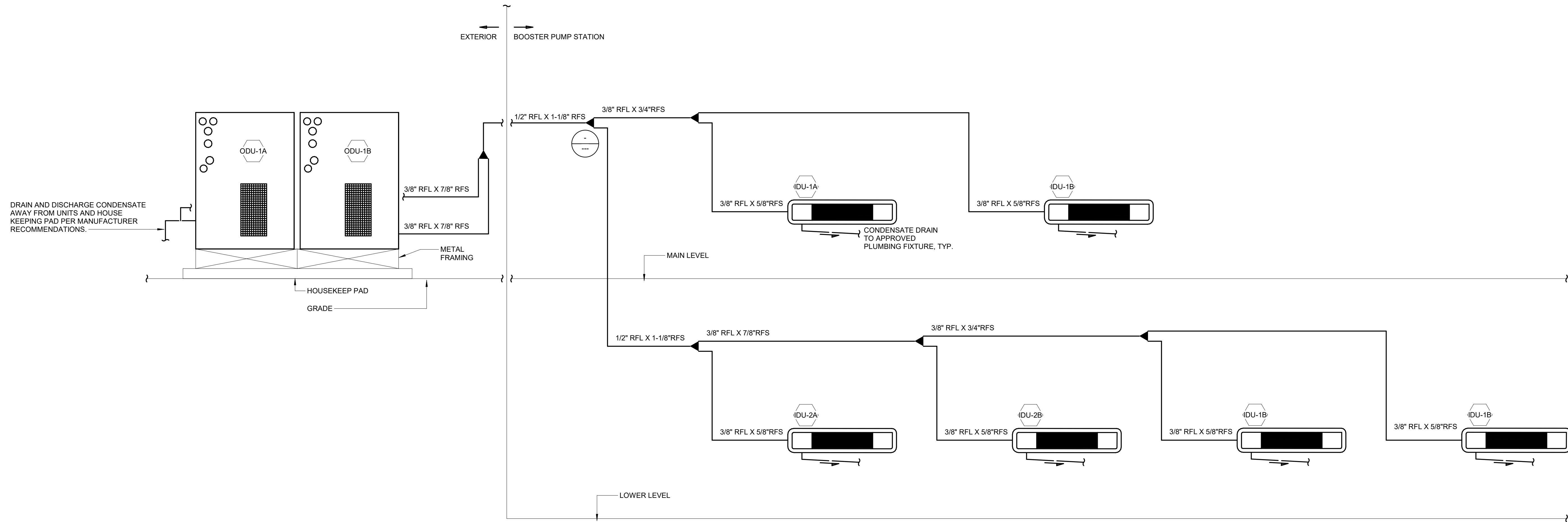
M-101

No.	Date	Item
REVISIONS		

IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING ITS PRODUCTION, AFFECTING ALL LABELED SCALES

8/5/2022 8:37:00 AM Autodesk Docs://22429 - NDS Booster Pump - Coordination/INF-MECH-22429_RV22.rvt

1 HEAT PUMP SYSTEM DIAGRAM
M-601 SCALE: NO SCALE



CONSULTANT :

NOT FOR CONSTRUCTION

Anchorage, AK
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PROJECT :
NORTHERN REGIONAL WATER DELIVERY PROJECT
TRIVIEW METROPOLITAN DISTRICT

SHEET TITLE :
HVAC DETAILS & DIAGRAMS
70% DESIGN DEVELOPMENT

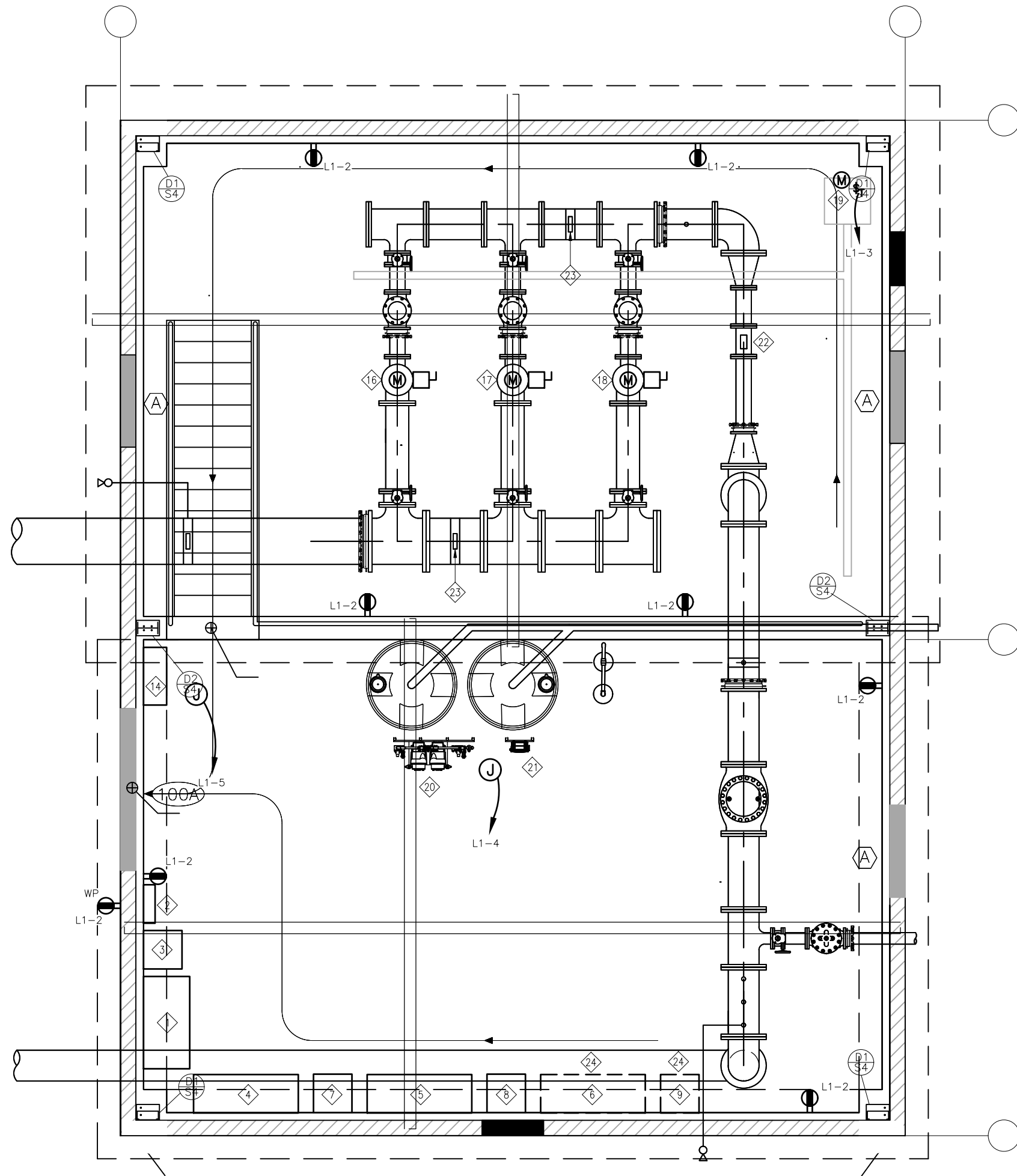
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DRAWN	CSB
CHECKED	MJL
DATE	08/05/2022

PROJECT No.
22429
SHEET NUMBER

M-601

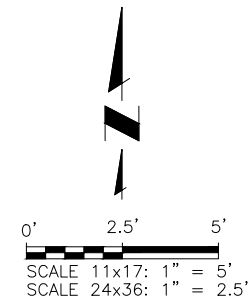
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REVISIONS		

2022/09/20 3:54 PM By: Alexis (Lex) Yoder N:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\07_Electrical\22429_Electrical.dwg



SHEET KEYNOTES X

- 1 PANEL 'MH1'
- 2 PANEL 'L1'
- 3 XFMR 'T1'
- 4 VFD P-1
- 5 VFD P-2
- 6 VFD P-3
- 7 HARMONIC FILTER VFD P-1
- 8 HARMONIC FILTER VFD P-2
- 9 HARMONIC FILTER VFD P-3
- 10 MTS
- 12 CT CABINET
- 13 MCB, 1200A, 600V
- 14 PROCESS CONTROL PANEL
- 16 P-1, 350HP, 480V, 3PH, 4W
- 17 P-2, 350HP, 480V, 3PH, 4W
- 18 P-3, 350HP, 480V, 3PH, 4W
- 19 SUMP PUMP, 1/2HP, 1PH, 2W
- 20 PERISTALTIC PUMPS
- 21 CHLORINE ANALYZER
- 22 8" MAG METER
- 23 PRESSURE INDICATOR/TRANSMITTER
- 24 FUTURE/SPARE



JDS-HYDRO CONSULTANTS, INC.
 5540 TECH CENTER DR., SUITE 100
 COLORADO SPRINGS, COLORADO 80919
 (719) 227-0072

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TRIVIEW METROPOLITAN DISTRICT
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
ELECTRICAL POWER PLAN

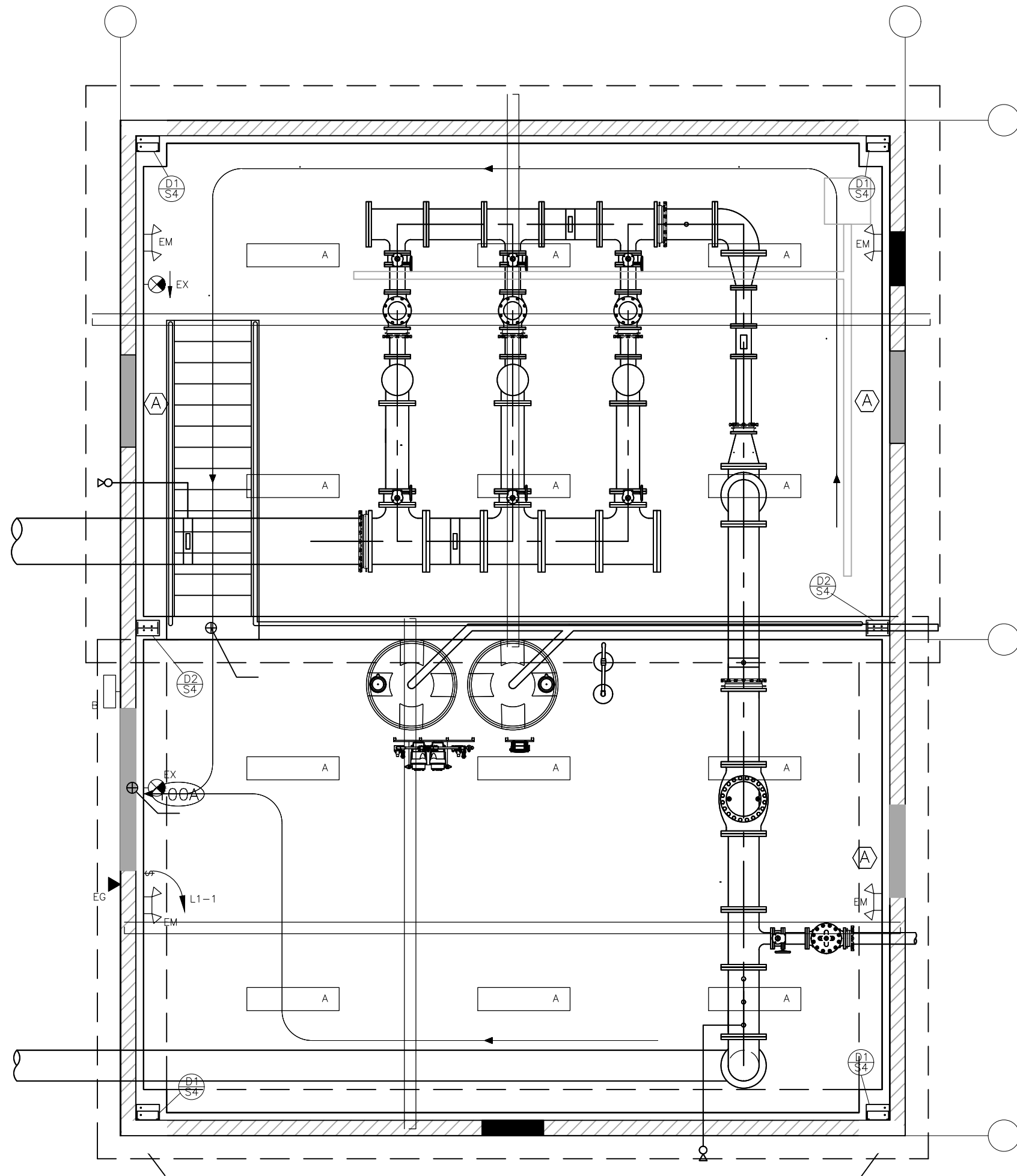
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70% DESIGN

Project No.: W224.21029
 Date: 09/12/22
 Design: RCK
 Drawn: JBS
 Check: MLD

E2
 SHEET ---- OF

2022/09/20 3:55 PM By: Alexis (Lex) Yoder NA\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\07_Electrical\22429_Electrical.dwg

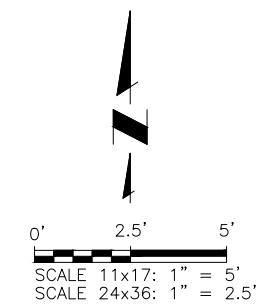


SHEET NOTES

- CONNECT TYPES 'EG', 'EM' AND 'EX' LUMINAIRES TO NON-SWITCHED LIGHTING CIRCUIT.

LIGHTING SYMBOLS

	SURFACE LUMINAIRE, 1x4
	WALL MOUNTED LUMINAIRE
	WALL MOUNTED EXIT SIGN, ARROW AS INDICATED, TYPE E1
	WALL MOUNTED EMERGENCY LIGHTING UNIT, TYPE EM1



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TRIVIEW METROPOLITAN DISTRICT
 NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
 ELECTRICAL LIGHTING PLAN

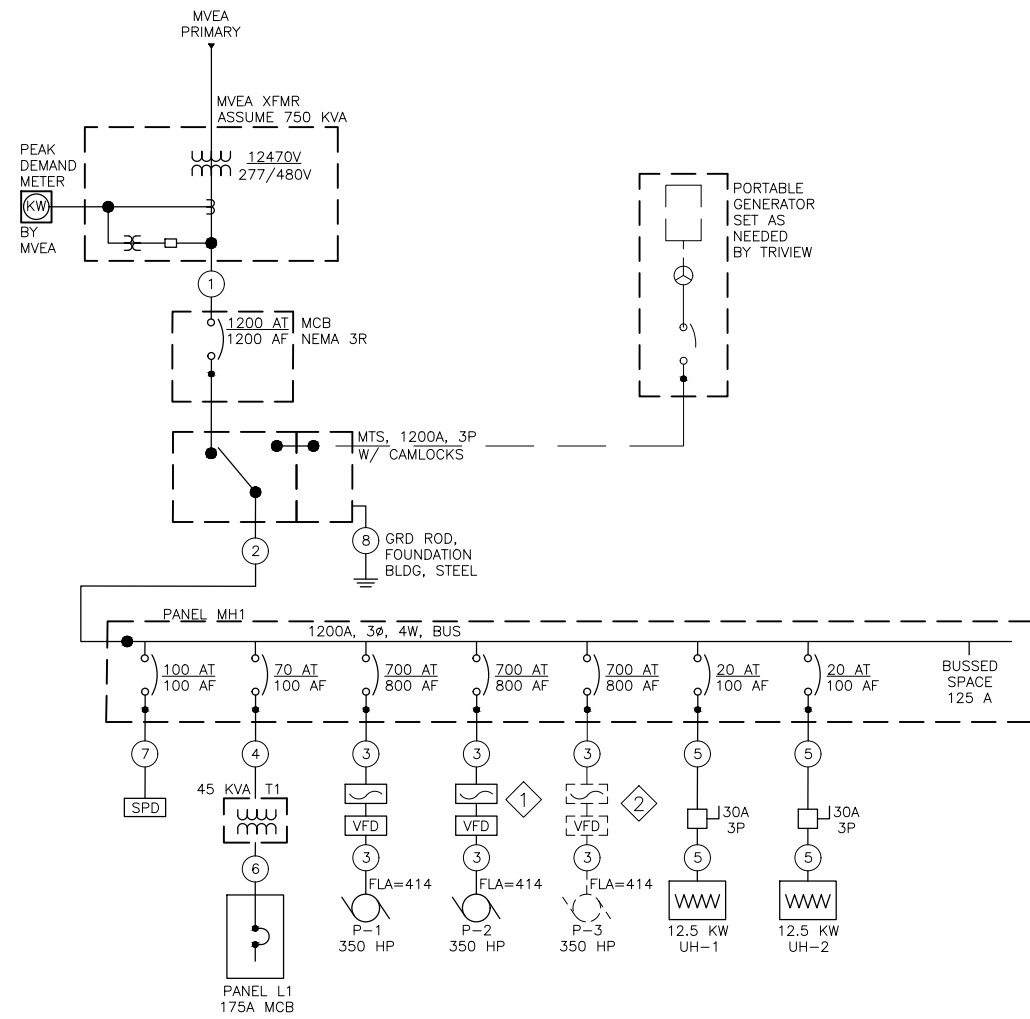
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70% DESIGN

Project No.: W224.21029
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E3
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TRIVIEW NDS PUMP STATION ONE-LINE DIAGRAM
N.T.S.

SHEET KEYNOTES

- ① 5% HARDRONIC FILTER, TYP.
- ② FUTURE SPARE

FEEDER CIRCUIT SCHEDULE

#	# OF RUNS	CONDUCTORS/CONDUIT PER RUN				
		WIRE COUNT	LINE/N SIZE	GND CNDR	INSULATION TYPE	CONDUIT DIAMETER
1	3	4	600 KCMIL	--	XHHW	3-1/2"
2	3	4	600 KCMIL	3/0 AWG	THHN	4"
3	2	4	300 KCMIL	#1 AWG	THHN	3"
4	1	4	#4 AWG	#8 AWG	THHN	1-1/4"
5	1	3	#12 AWG	#12 AWG	THHN	1/2"
6	1	4	2/0 AWG	#6 AWG	THHN	2"
7	1	3	#2 AWG	#8 AWG	THHN	1-1/4"
8	1	1	--	3/0 AWG	--	--

NOTES:
 1. XHHW INSULATION MAY BE SUBSTITUTED FOR THHN.
 2. ALL CONDUIT SHALL BE RMC, UON.
 3. AT CONTRACTOR'S DISCRETION, IMC MAY BE SUBSTITUTED FOR RMC WHERE NOT PROHIBITED IN THESE DOCUMENTS, AND AS ALLOWED IN THE NEC.

MAIN DISTRIBUTION PANELBOARD 'MH1'											
VOLTAGE: 480Y/277V, 3PH, 4W BUS AMPS: 800 MAIN: MLO			SPECIFICATION TYPE: DPB MIN AIC RATING: 25,000			ENCLOSURE: NEMA 1 MOUNTING: SURFACE LOCATION: ELECTRIC ROOM					
CKT	AMPS	FRAME	POLES	TRIP	FEATURES	LOAD DESCRIPTION	NOTE	PH A	PH B	PH C	LOAD
1	125	150	3	MTM	I	PANELBOARD 'L1'		2640	1676	1200	7
2	700	800	3	MET	I	PUMP P-1, 350 HP		114680	114680	114680	4
3	700	400	3	MET	I	PUMP P-2, 350 HP		114680	114680	114680	3
4	700	800	3	MET	I	PUMP P-3, 350 HP (FUTURE/SPARE)	1	114680	114680	114680	7
5	20	100	3	MET	I	UH-1, 12.5 KW		4167	4167	4167	3
6	20	100	3	MET	I	UH-2, 12.5 KW		4167	4167	4267	7
7	70	100	3	MET	I	PNL 'L1'		15500	15500	15500	7
8	100	100	3	MET	I	SURGE SUPPRESSOR 'SPD'					
9											

LOAD SUMMARY AND CODE DEFINITIONS	CONNECTED KVA			% DIV	NEC TOTAL	NOTES:
	PH A	PH B	PH C			
1 LIGHTING =				125%		1. PUMP #3 IS FUTURE SPARE. AFTER ALL 3 PUMPS ARE INSTALLED, ONLY 2 PUMPS WILL BE ALLOWED TO OPERATE AT ANY TIME.
2 RECEPTACLES =				10K+50%		
3 MOTORS =	118.8	118.8	118.8	100%	356.5	
4 LARGEST MOTOR =	114.7	114.7	114.7	125%	430.1	
5 MISC. NON-CONTINUOUS =				100%		
6 MISC. CONTINUOUS =				125%		
7 NON-COINCIDENTAL =	137.0	136.0	135.6	0%		
8 SPARE =				100%		
9 OTHER =				100%		
TOTAL KVA (PHASE)	370.5	369.6	369.2		1109.2	786.6
TOTAL AMPERES	1337.0	1333.5	1332.1		1334.2	946.1

PANELBOARD 'L1'												
VOLTAGE: 208Y/120V, 3PH, 4W BUS AMPS: 225 MAIN: MCB, 225 A			SPECIFICATION TYPE: BPB MIN AIC RATING: 10,000			ENCLOSURE: NEMA 1 MOUNTING: SURFACE LOCATION: ELECTRIC ROOM						
LOAD	LOAD DESCRIPTION	NOTE	VA	AMP	PHASE	CKT	P	AMP	VA	NOTE	LOAD DESCRIPTION	LOAD
1	LIGHTING		1200	20	1 1 A	2	1	20	1440		RECEPTACLES	5
3	SUMP PUMP, 1/2 HP		1176	20	1 3 B	4	1	15	500		PERISTALTIC PMPs & CHLORINE ANAL	6
6	PLC CABINET		1000	15	1 5 C	6	1	20	200		8" MAG METER	8
8	SPARE			20	1 7 A	8	1	-	-		SPACE W/ HARDWARE	
	SPACE W/ HARDWARE			-	1 9 B	10	1	-	-		SPACE W/ HARDWARE	
	"			-	1 11 C	12	1	-	-		"	
	"			-	1 13 A	14	1	-	-		"	
	"			-	1 15 B	16	1	-	-		"	
	"			-	1 17 C	18	1	-	-		"	

LOAD SUMMARY AND CODE DEFINITIONS	CONNECTED KVA			% DIV	NEC TOTAL	NOTES:
	PH A	PH B	PH C			
1 LIGHTING =	1.2			125%	1.5	
2 RECEPTACLES =				10K+50%		
3 MOTORS =		1.2		100%	1.2	
4 LARGEST MOTOR =				125%		
5 MISC. NON-CONTINUOUS =	1.4			100%	1.4	
6 MISC. CONTINUOUS =		0.5	1.0	125%	1.9	
7 NON-COINCIDENTAL =				0%		
8 SPARE =			0.2	100%	0.2	
9 OTHER =				100%		
TOTAL KVA (PHASE)	2.6	1.7	1.2		5.5	6.2
TOTAL AMPERES	22.0	14.0	10.0		15.3	17.2

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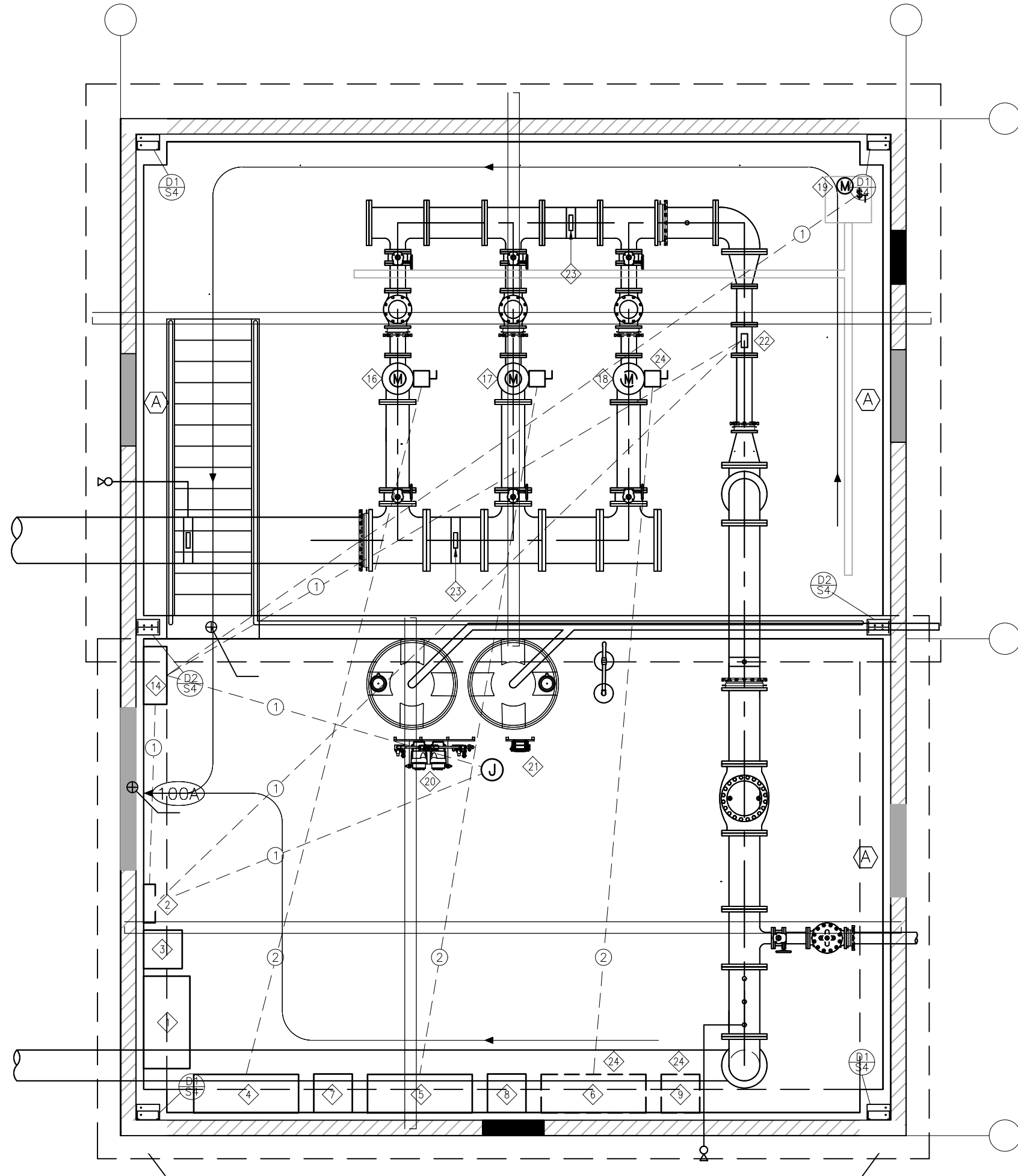
TRIVIEW METROPOLITAN DISTRICT
 NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
 ONE-LINE DIAGRAM & PANEL SCHEDULES

NO.	DESCRIPTION	BY	APP.	DATE
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70% DESIGN

Project No.: W224.21029
 Date: 09/12/22
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 Drawn: JBS
 Check: MLD

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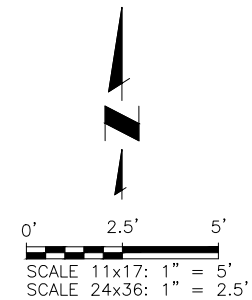


SHEET KEYNOTES ⬡

- ⬡ 1 PANEL 'MH1'
- ⬡ 2 PANEL 'L1'
- ⬡ 3 XFMR 'T1'
- ⬡ 4 VFD P-1
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- ⬡ 21 CHLORINE ANALYZER
- ⬡ 22 8" MAG METER
- ⬡ 23 PRESSURE INDICATOR/TRANSMITTER
- ⬡ 24 FUTURE/SPARE

CONCRETE EMBEDDED CONDUIT PLAN (X)

- 1. 3/4" PVC
- 2. 3" PVC



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TRIVIEW METROPOLITAN DISTRICT
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION
ELECTRICAL CONCRETE EMBEDDED CONDUIT PLAN

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70% DESIGN

Project No.: W224.21029
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