

GENERAL NOTES

The Illinois Department of Transportation "Standard Specifications for Road and Bridge Construction" adopted January 1, 2007 and the "Standard Specifications for Water and Sewer Construction in Illinois" July 2009 shall govern applicable portions of this project.

It shall be the responsibility of the Contractor to examine the Plans and Specifications, visit the work site, be informed of the work involved, be informed of federal, state, and local laws, local code requirements, ordinances, rules and regulations, and any other items which may affect the cost and/or time to complete the project. It is the Contractor's responsibility to notify the Engineer should any discrepancies be noticed between the Plans, Specifications, or worksite.

The location of existing underground or overhead utilities if shown on the Plans is for the convenience of the Bidder only. The Owner and/or Engineer assumes no responsibility whatsoever with respect to the accuracy or completeness of the information shown. It shall be the responsibility of the Contractor to determine the actual location of all such utilities.

The Contractor shall be responsible for the proper protection of all existing public or private roadways, structures, and utilities prior to the start of construction and shall be responsible for any damage to said roadways, structures, and utilities. Any roadway, structure, or utility that is damaged during construction shall be repaired or replaced by the Contractor at the Contractor's expense.

All field drainage tile damaged during construction shall be repaired to the satisfaction of the Engineer or rerouted to a location determined by the Engineer. Should the repair not be included for payment as a Bid Item, payment will be made for tile repairs at a pre-approved unit price.

When survey control points are set by the Engineer to establish the horizontal and vertical control required for the construction of the various contract items of work, the Engineer shall be responsible for the accuracy of the control points set. The Contractor shall assume full responsibility for all measurements taken or derived by the Contractor from control points set by the Engineer.

The Contractor shall protect and preserve all control points or reference stakes set by the Engineer. Should the Contractor disturb any control point or reference stake without the prior approval of the Engineer, the Engineer may deduct the direct engineering cost incurred in the re-establishment of the control point or reference stake from compensation due the Contractor.

When the Owner employs multiple Contractors, each Contractor shall conduct his/her work so as to not interfere with or hinder the progress or completion of the work being performed by other Contractors and/or Utility Companies.

Each Contractor shall assume all liability, financial or otherwise, in connection with his/her contract and shall protect and hold harmless the Owner and Engineer from any and all damages or claims that may arise due to inconvenience, delay, or loss experienced by the Contractor caused by the presence and operation of other Contractors and/or Utility Companies working within the limits of the project.

Traffic control shall be in accordance with applicable portions of the Illinois Department of Transportation "Standard Specifications for Road and Bridge Construction" adopted January 1, 2007 and the latest edition of the "Illinois Manual for Uniform Traffic Control for Streets and Highways". The Contractor shall be solely responsible for use of appropriate Illinois Department of Transportation Highway Standards pertaining to traffic control for the entire duration of the project and solely liable for any accidents, which may occur due to inadequate traffic control.

All roadways shall remain open throughout the project unless prior consent is granted by the Owner and/or the Municipality for any Contractor-requested roadway closures. The Contractor shall make arrangements or schedule work so that access to properties within the work site is maintained at all times.

Unless otherwise provided, traffic control shall be considered incidental to the contract.

Soil erosion and sediment control shall be in accordance with applicable portions of the Illinois Environmental Protection Agency's "Standard Specifications for Soil Erosion and Sediment Control" dated 1987.

Provisions shall be made to minimize the transport of sediment by vehicular traffic from the construction site. All streets shall be cleaned daily or as necessary to keep clean of sediment and debris caused by construction activities. Adjacent properties shall be protected from sediment deposition by use of an acceptable erosion control practice such as vegetative buffer strips or sediment barriers. Should an erosion control item not be included as a Bid Item or not be addressed per Special Provision and be determined necessary by the Engineer, those items will be paid for at a pre-approved unit price.

For construction sites with one (1) acre or more of disturbance, all Contractors and Sub-Contractors will be required to certify a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP, if necessary, and all permits pertaining to soil and erosion control will be prepared and submitted by the Owner/Engineer.

It will be the Contractor/Sub-Contractor's responsibility to implement and follow the SWPPP.

When requested by the Owner, the Engineer shall provide construction inspection to ascertain the work is in substantial conformance with the Contract Documents and with the design intent. The Engineer's undertaking shall not relieve the Contractor from the Contractor's obligation to perform work in conformity with the Plans and Specifications and in a workmanlike manner, shall not make the Engineer an insurer of the Contractor's performance; and shall not impose upon the Engineer any obligation to ensure that the work is performed in a safe manner. The Contractor shall be totally responsible for safety for this project.

Before acceptance and subsequent Final Payment, all work shall be inspected and approval by the Owner or his representative. Final payment shall be made only after all of the Contractor's work has been approved and inspected.

ELEVATION ESTABLISHED
BY GPS (NAVD 88)

SCHEDULE

WORK ON LAGOON SITE MAY OCCUR IMMEDIATELY, HOWEVER, NO SIGNIFICANT DISTURBANCE MAY OCCUR IN THE HATCHED AREA (SHEET 12) PRIOR TO JULY 15, 2024. NO WORK MAY OCCUR FROM STATIONS 55+00 TO THE CONNECTION WITH THE EXISTING WHP PRIOR TO JULY 15, 2024. ADDITIONALLY, ON JULY 12-14, 2024, ALL EQUIPMENT AND HAZARDOUS AREAS SHALL BE SECURED AND MOVED TO ONE AREA AS POSSIBLE TO ALLOW FOR A PUBLIC EVENT ADJACENT TO THE SITE.

SANITARY SEWERS

GENERAL

The Contractor shall provide all labor, materials, tools, and equipment necessary to construct the sanitary sewer system as detailed on the Plans and in the Specifications.

Water service lines shall be protected from sanitary sewer, storm sewers, sewer service connections and drains in accordance with Title 35, Environmental Protection Agency Subtitle F; Public Water Supplies, Chapter 11; Environmental Protection Agency, Parts 651-654 Technical Policy Statements, Section 653.119.

Sanitary sewer main construction shall be in strict accordance with the "Standard Specifications for Water & Sewer Main Construction in Illinois" July 2009 except where noted otherwise on the Plans or in the Specifications.

Any excess excavated material, removed structures, or debris shall be removed from the site and properly disposed of at the Contractor's expense.

Where requested by the Engineer, foundation material shall be placed at locations where unsuitable soils exist or other site conditions warrant foundation material use. Foundation material shall be Type B CA-6.

Bedding, haunching, and initial backfill shall be placed in accordance with ASTM Standard D2321-89 and shall be considered incidental to the sanitary sewer main. Class 1A material (3/8" pea gravel) shall be used for bedding, haunching, and initial backfill.

Final backfill shall be required for all mains that are constructed under or within two (2) feet of the edge of existing or proposed pavements, sidewalks, curb and gutters, or other paved surfaces.

Where indicated on the Plans, controlled low strength material (CLSM) or "Flowable Fill" shall be used for final backfill in accordance with the Standard Specifications.

Where indicated on the Plans, select granular material (3/8" pea gravel) shall be used for final backfill in accordance with the Standard Specifications.

Excavated material shall be used for final backfill for all areas not designated for select granular backfill or CLSM.

SANITARY SEWER PIPE MATERIAL

Sanitary sewer pipe shall be polyvinyl chloride (PVC) type SDR-26 conforming to ASTM D-3034 or ASTM F-679-89 with flexible elastomeric joints conforming to ASTM D-3212 unless otherwise specified on the Plans.

SANITARY SERVICE SEWER COMPLETE

The Contractor shall provide all labor, tools, and equipment necessary to install complete sanitary services at locations indicated on the Plans in accordance with Section 31 of the Standard Specifications.

Sanitary service pipe shall be polyvinyl chloride (PVC), SDR 26 conforming to ASTM D-3034 with flexible elastomeric joints conforming to ASTM D-3212 unless otherwise specified on the plans.

Wyes shall be used to connect all sanitary service pipes to the sanitary sewer main unless otherwise indicated on the Plans.

Risers, if necessary, shall be installed at a 1:1 maximum slope and terminate at an elevation shown on the Plans or as determined by the Engineer. Service sewers shall terminate where indicated on the Plans or at the approximate property line. Service sewers shall be plugged with a watertight expansion type plug for testing purposes. The Contractor shall log the location of all service sewers on the Plans.

SANITARY SEWER SYSTEM TESTING

Sanitary sewer mains shall be tested in accordance with the Standard Specifications. The entire sanitary sewer system shall be tested and the following tests shall be performed:

DEFLECTION TESTING FOR FLEXIBLE THERMOPLASTIC PIPE
AIR TESTING

Manholes shall be air tested for leakage in accordance with ASTM C1244-02, Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test.

SANITARY SEWER SYSTEM BY-PASS PUMPING

The contractor shall provide all required by-pass pumping around work area. The pumping shall be a 24 hour, 7 day a week operation during construction. At no time will the main line sewer be allowed to flow freely into the trench excavation.

Pumping of groundwater, sanitary waste bypass pumping, or any other pumping shall be considered incidental to the cost of the sanitary sewer unless otherwise specified.

Sheffield Excess Flow Lagoon

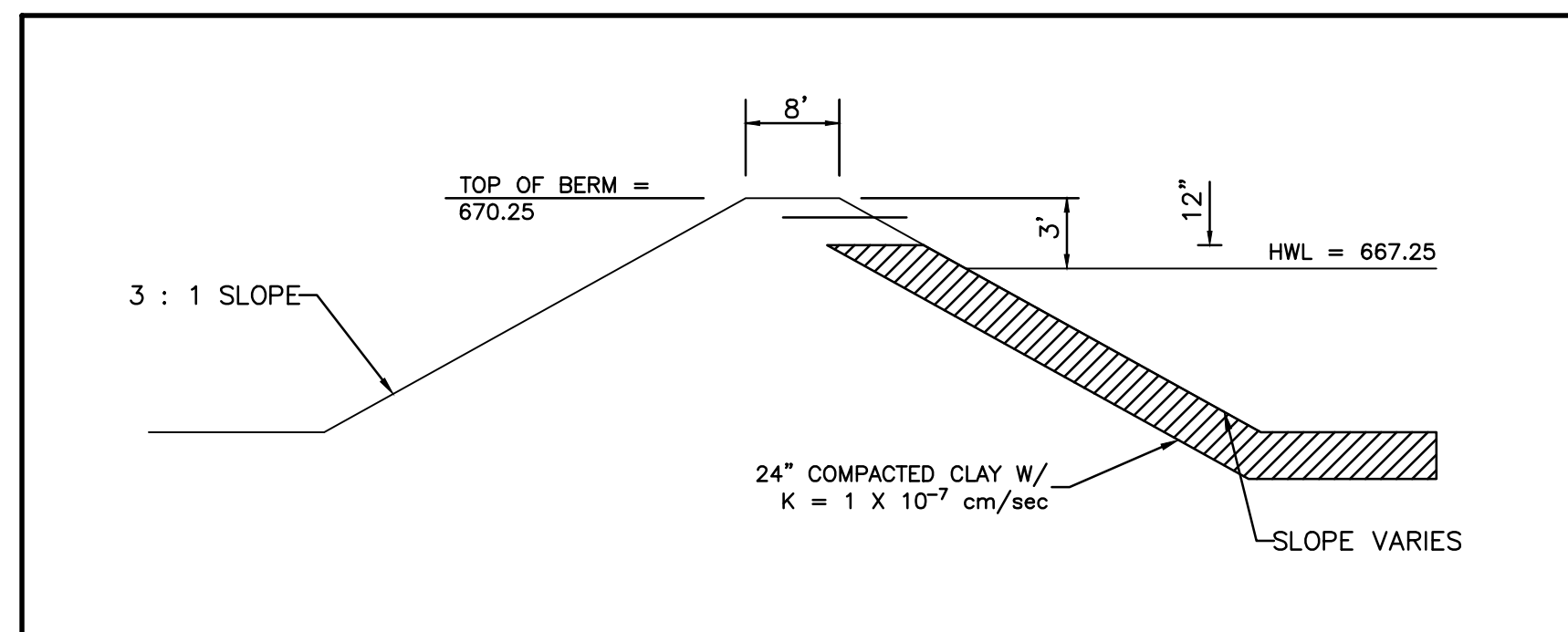
Estimated Project Earthwork Quantities (Information Purposes Only)

	Cut (CY)	Compaction Factor	Fill (CY)	Excess (CY)
Initial Excavation and Placement (Berm Material)	3,173	0.75	2,349	31
Initial Excavation and Placement (Clay Liner Material)	1,452	0.8696	1,262	0
Additional Excavation and Placement (Clay Liner Material)	952	0.8696	828	0
Additional Site Scraping and Placement for Cut/Fill Balance (Berm Material)	1,269	0.75	952	0
TOTAL:	6,846		5,391	31

MINIMUM STORAGE VOLUME: 750,000 GAL

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:


BITUMINOUS MAT PRIME COAT:	
OVER AGGREGATE SURFACE	0.375 GAL/SQ YD
OVER HOT MIX ASPHALT SURFACE	0.08 GAL/SQ YD
HOT MIX ASPHALT BINDER CSE	112 LBS/SQ YD/IN
HOT MIX ASPHALT SURF CSE	112 LBS/SQ YD/IN
NITROGEN FERTILIZER NUTRIENT	90 LBS/ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90 LBS/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS/ACRE
TEMPORARY EROSION CONTROL SEEDING	100 LBS/ACRE



SECTION AT BERM
NOT TO SCALE

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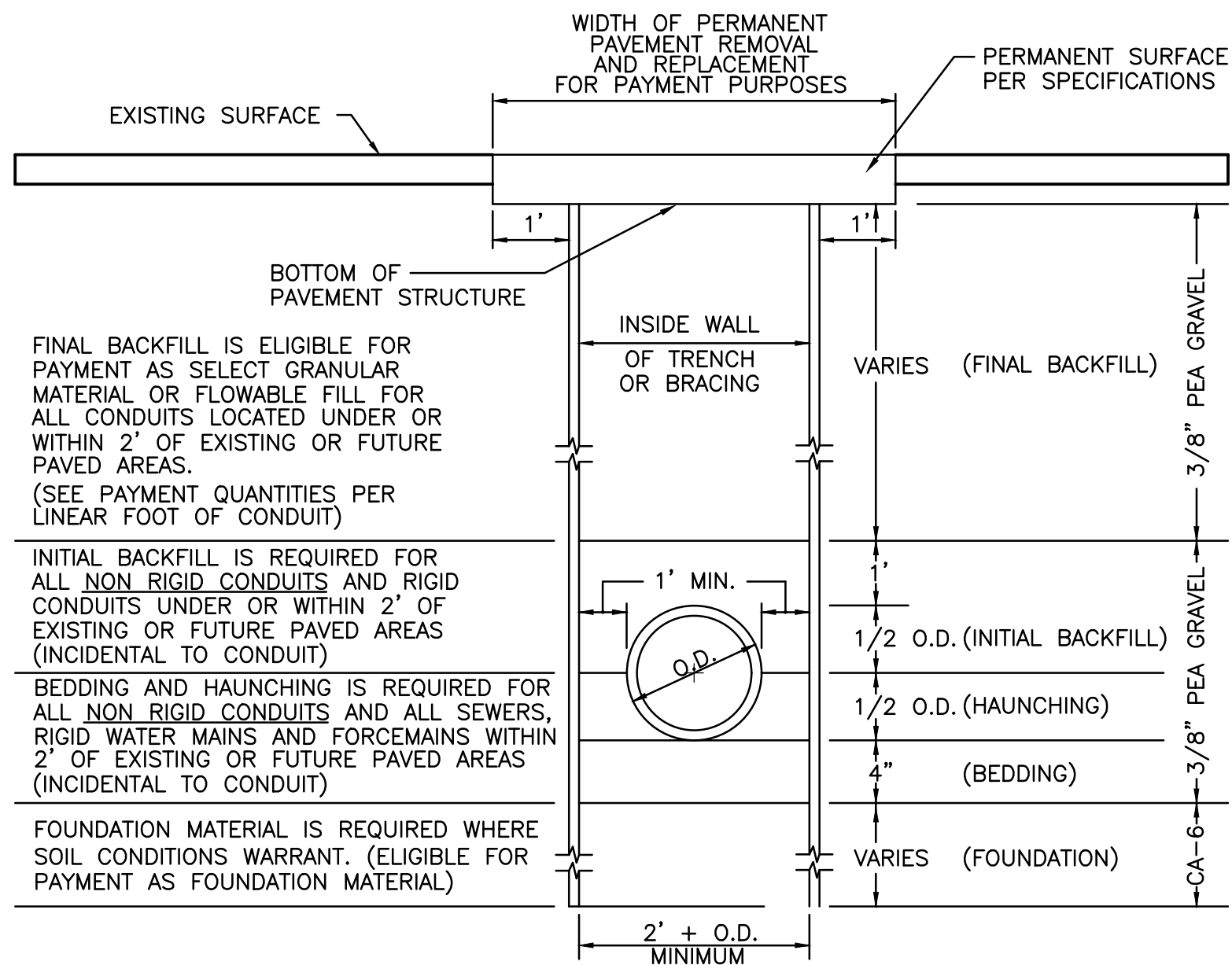
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

VILLAGE OF SHEFFIELD
EXCESS FLOW FACILITIES (RE-BID)
EXCESS FLOW LAGOON, PUMP STATION AND PIPING
SHEFFIELD, ILLINOIS
2022

GENERAL NOTES
SUMMARY OF QUANTITIES
MISC. DETAILS

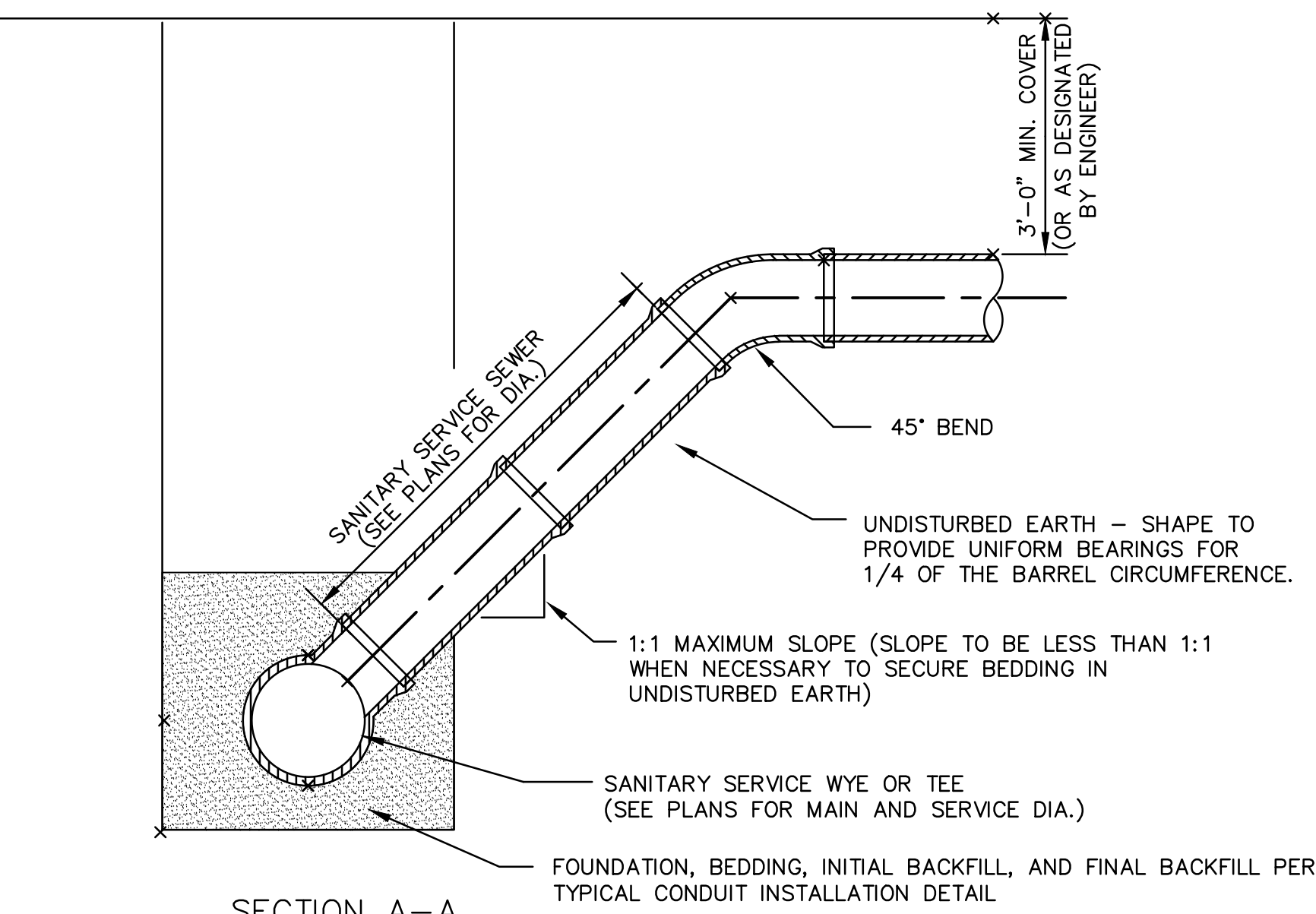
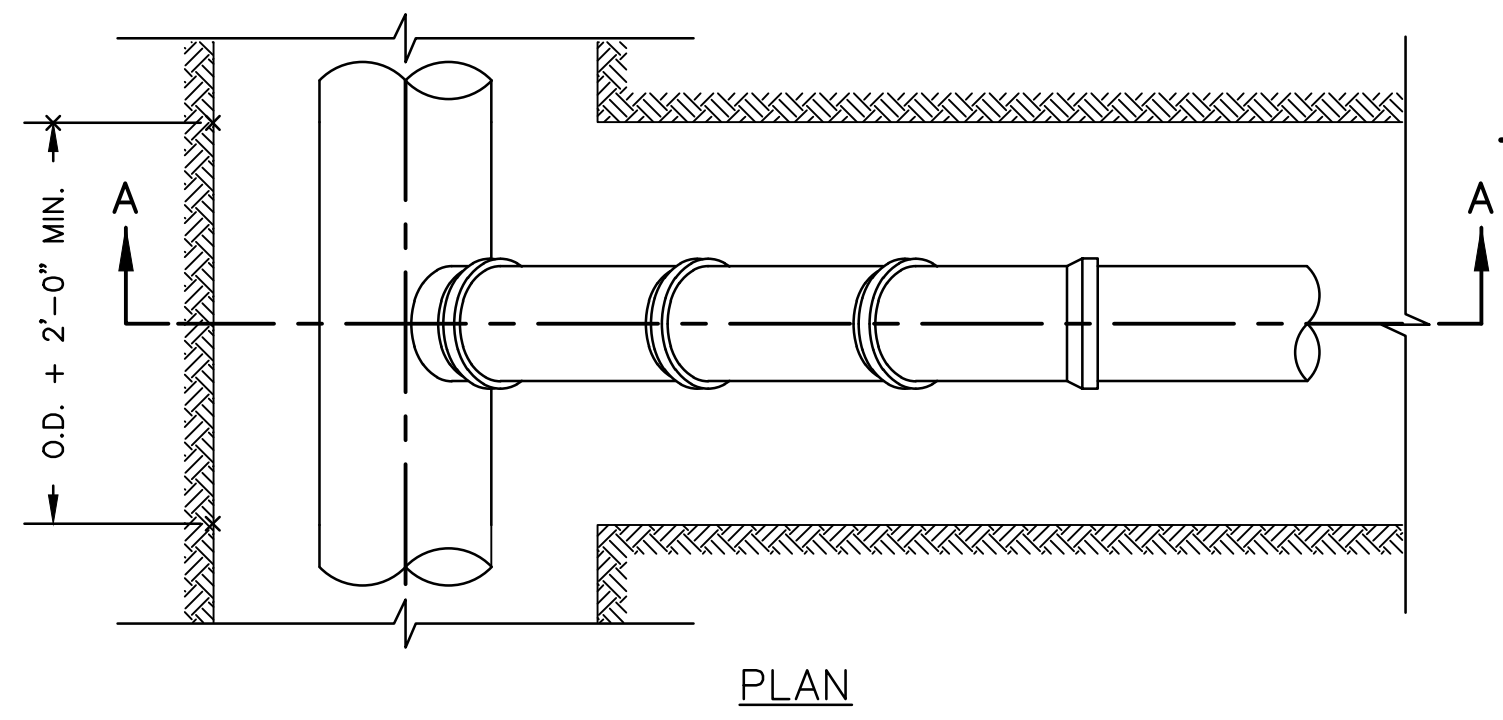
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FILE NO.: 5856.00 Y-	OF 15

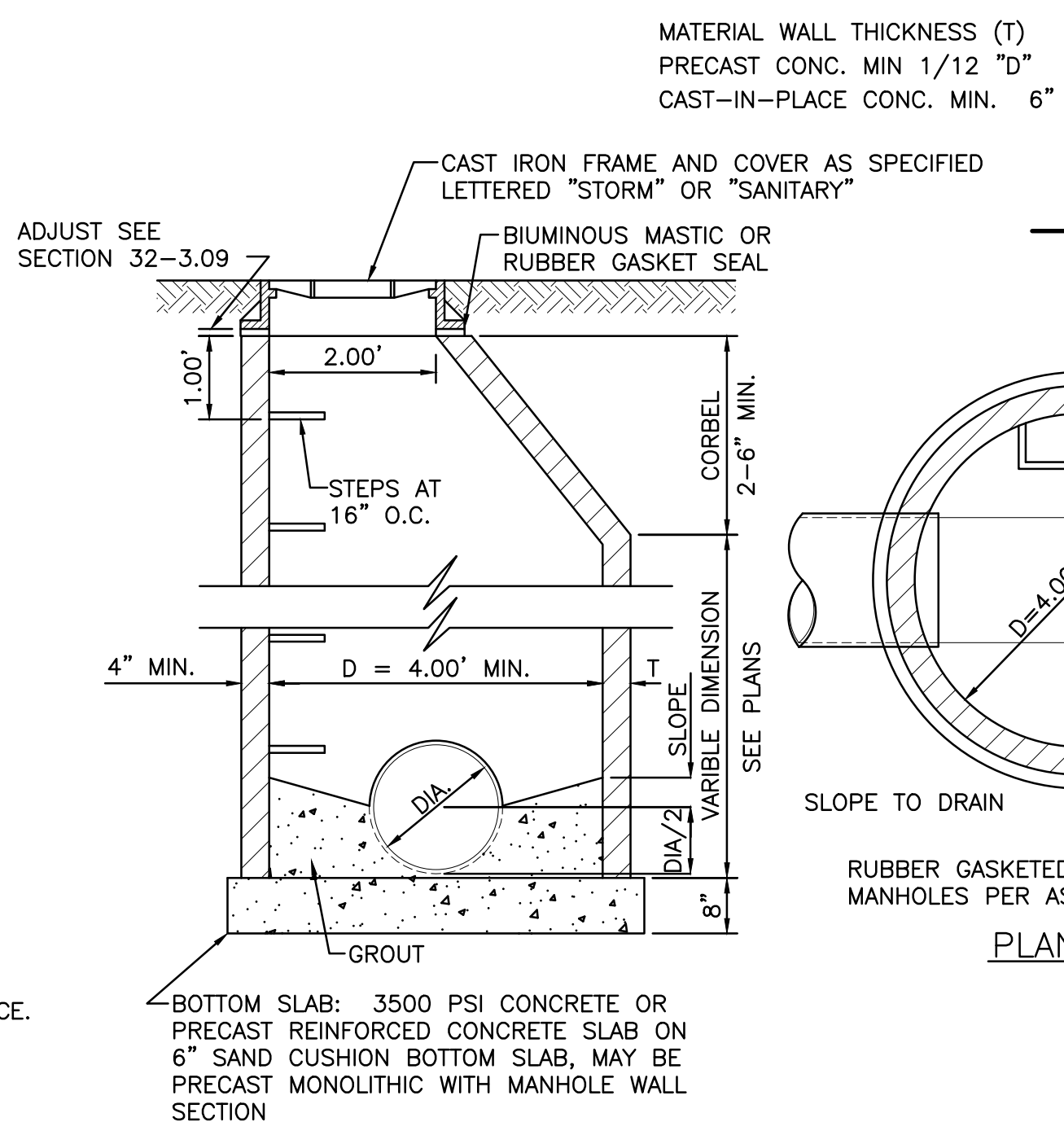


NOTES:
 NON RIGID CONDUITS ARE DEFINED AS FLEXIBLE THERMOPLASTIC PIPE.
 MAXIMUM QUANTITIES FOR PAYMENT PURPOSES ARE AS IDENTIFIED PER THE TABLES FOR PAYMENT QUANTITIES PER LINEAR FOOT OF CONDUIT. ANY ADDITIONAL EXCAVATION SHALL BE BACKFILLED PER THE ABOVE REQUIREMENTS AT THE CONTRACTOR'S EXPENSE.
 TRENCH BOX SHALL NOT EXTEND BELOW THE TOP OF THE PIPE NOR SHALL IT EXCEED 2 FEET FROM THE BOTTOM OF THE TRENCH.

WATER MAIN AND SANITARY SEWER TYPICAL CONDUIT INSTALLATION DETAIL
 NOT TO SCALE



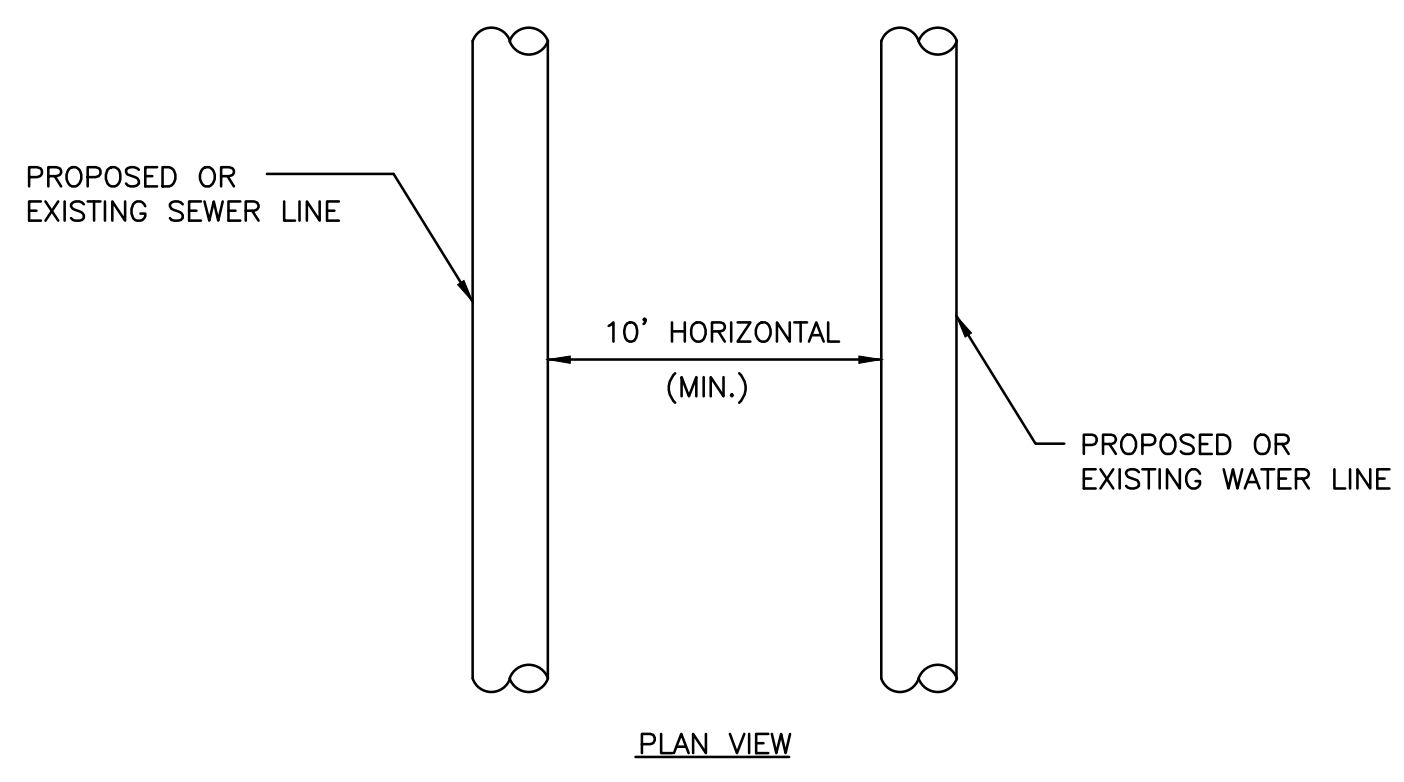
SANITARY SEWER RISER
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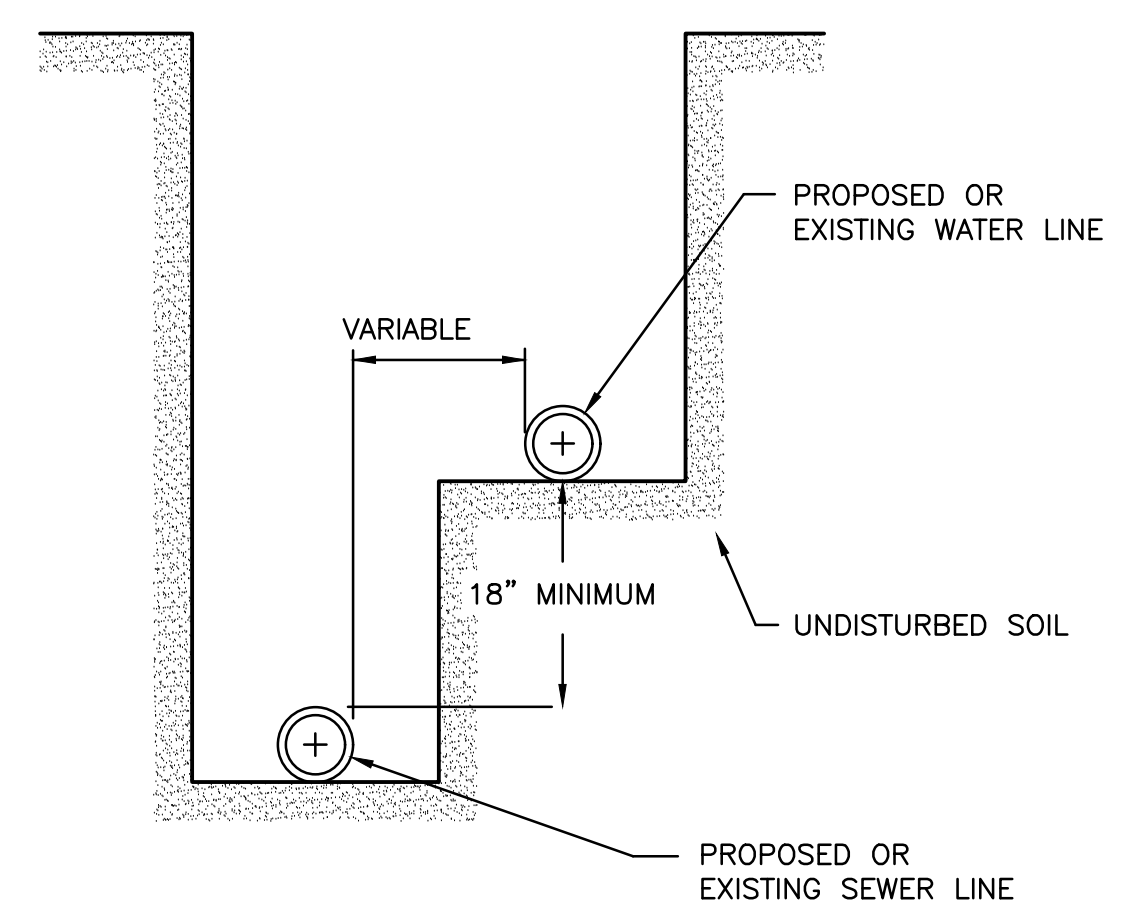
SECTION A-A
 NOTE: STEPS REQUIRED, UNLESS DELETED BY SPECIAL PROVISIONS
 NOTE: SEPARATE SANITARY SEWER MANHOLES SUBJECT TO SATURATED SOIL CONDITIONS OR SURFACE SUBMERGENCE SHALL BE EQUIPPED WITH CHIMNEY SEALS AND WATER TIGHT MANHOLE COVERS.

MANHOLE TYPE A DETAIL
 NOT TO SCALE

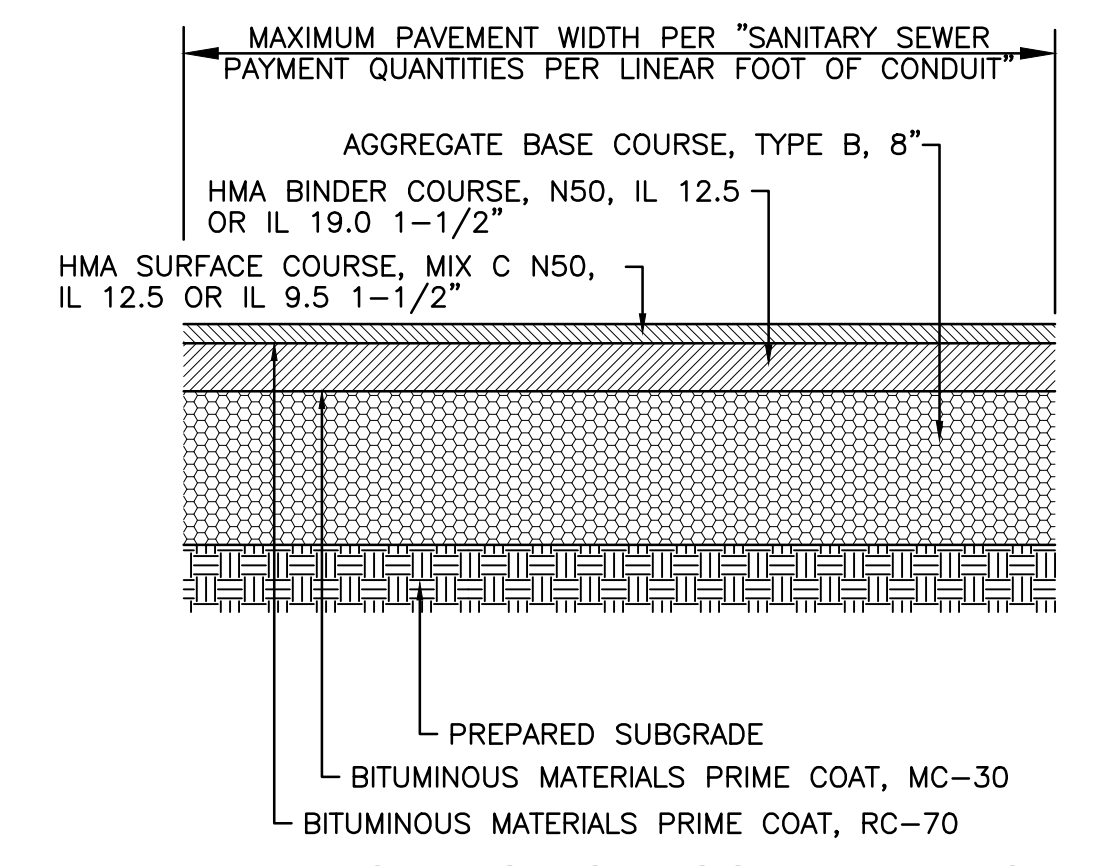
WHEN PROPOSED SEWER (OR WATER) IS LOCATED 10 FEET OR MORE FROM EXISTING WATER (OR SEWER), NO SPECIAL CONSTRUCTION REQUIRED. SEE SECTION 41-2.01B (1)



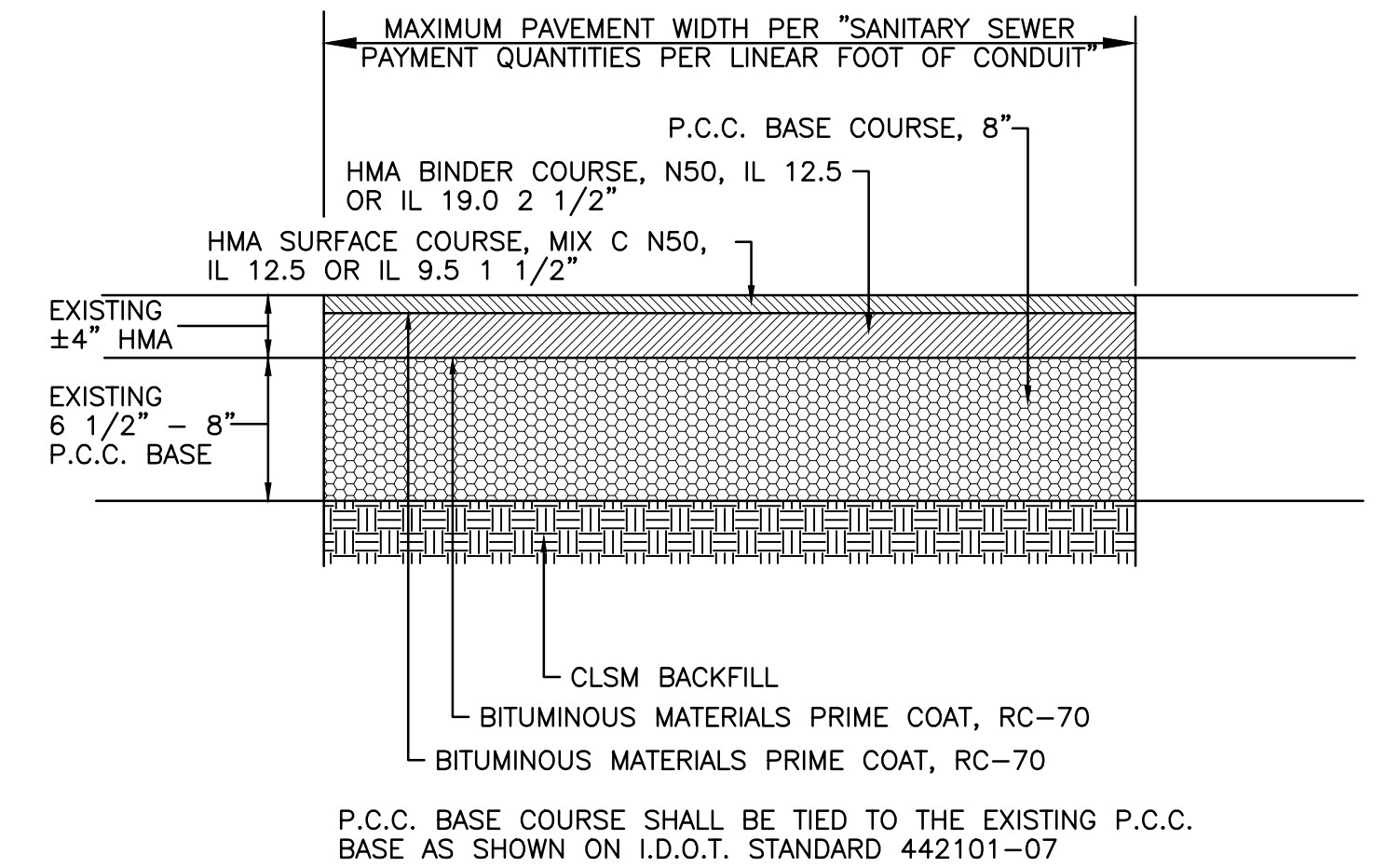
WHEN PROPOSED SEWER (OR WATER) IS LOCATED LESS THAN 10 FEET FROM EXISTING WATER (OR SEWER), DETAILS BELOW SHALL APPLY. SEE SECTION 41-2.01B (2)



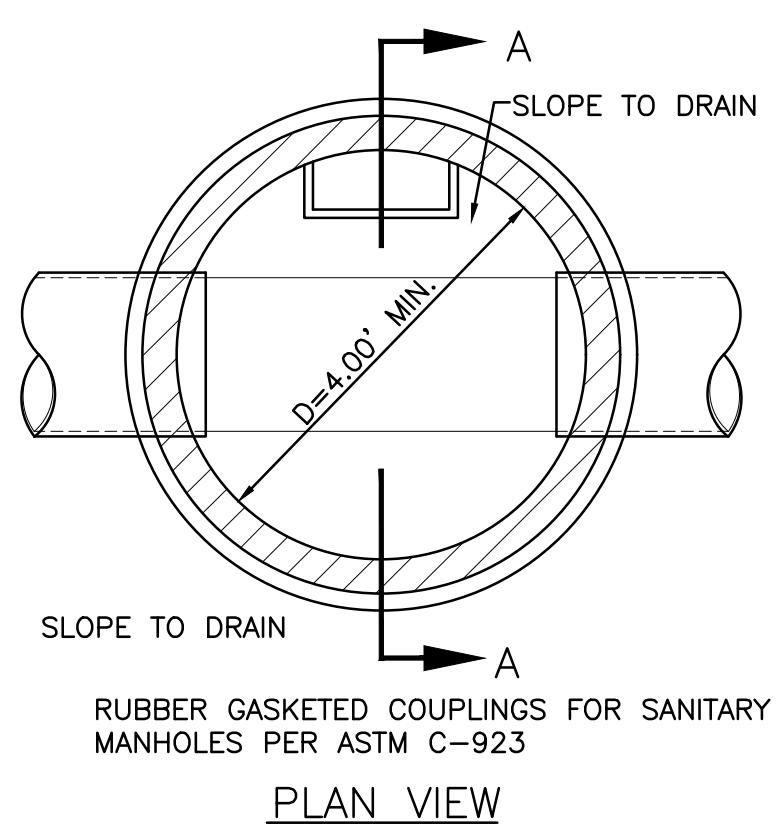
WATER AND SEWER SEPARATION REQUIREMENTS
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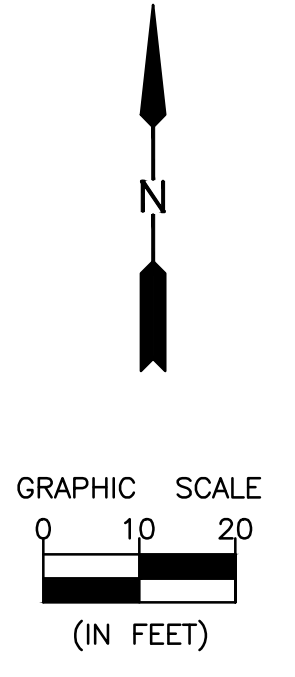
PAVEMENT PATCHING, CLASS D - TYPICAL SECTION
 NOT TO SCALE



PAVEMENT PATCHING, CLASS B - TYPICAL SECTION ROADWAY OR SHOULDER TRENCH REPAIR FOR WORK WITHIN R.O.W.
 NOT TO SCALE



PLAN VIEW



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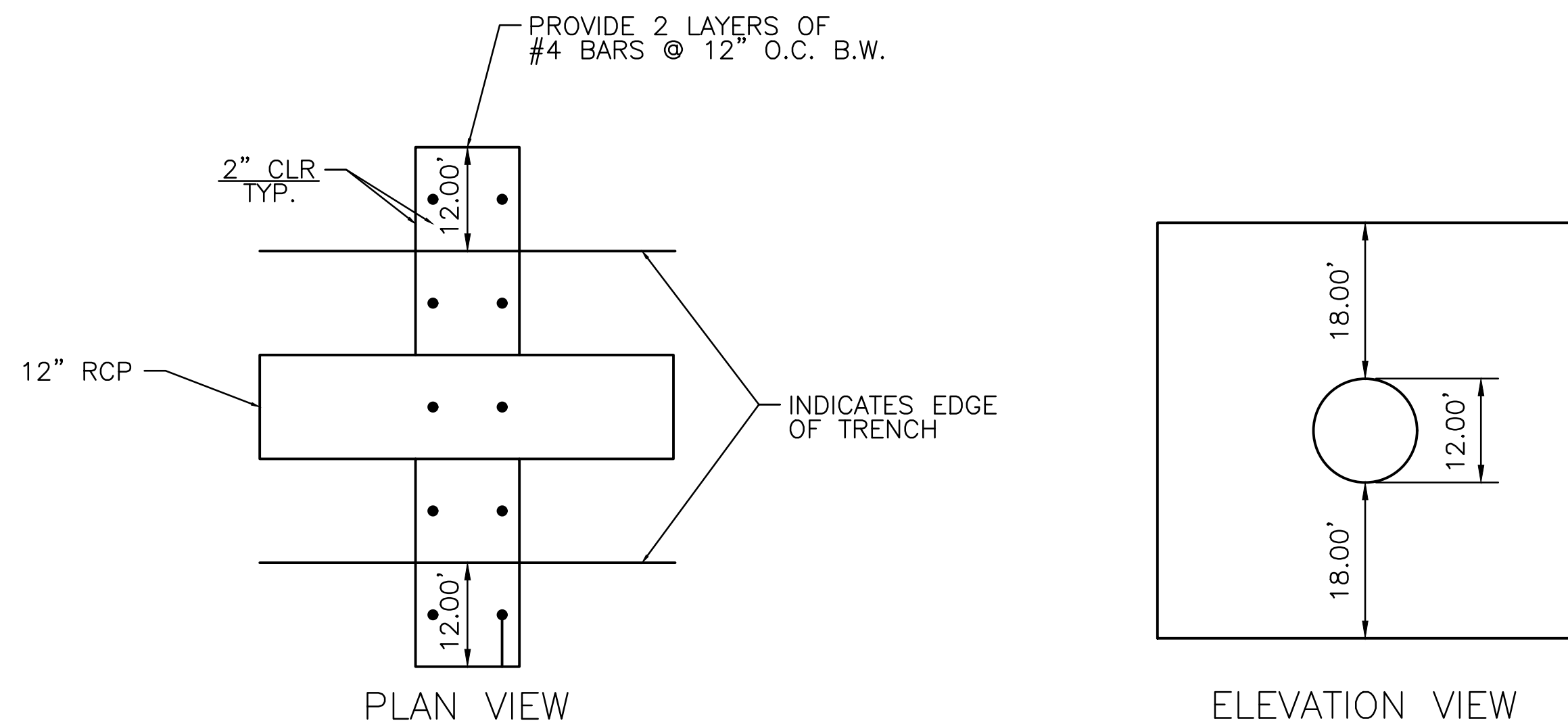
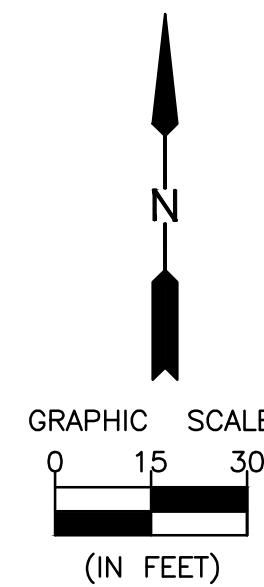
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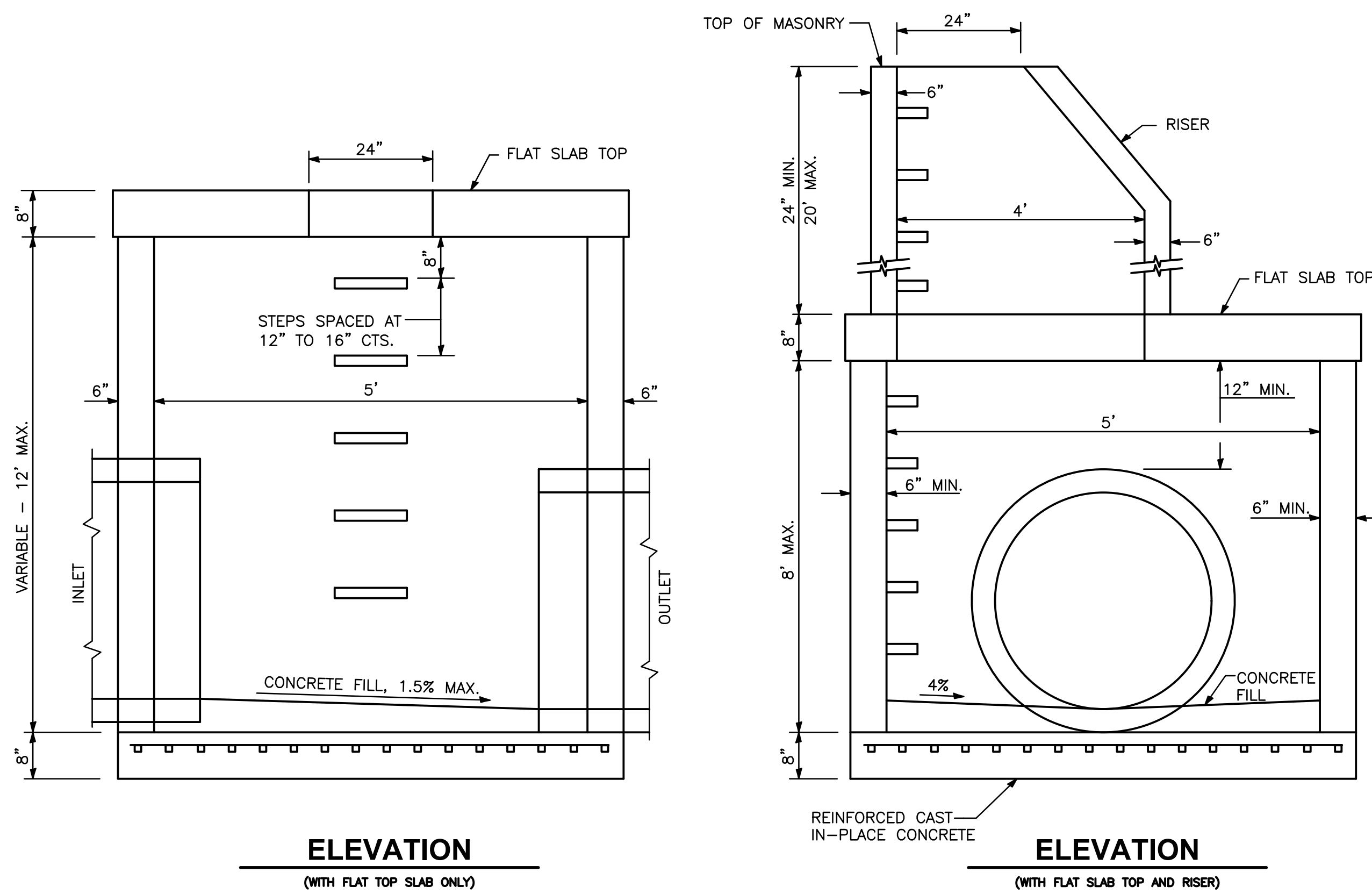
VILLAGE OF SHEFFIELD
 EXCESS FLOW FACILITIES (RE-BID)
 EXCESS FLOW LAGOON, PUMP STATION AND PIPING
 SHEFFIELD, ILLINOIS
 2022

DETAILS

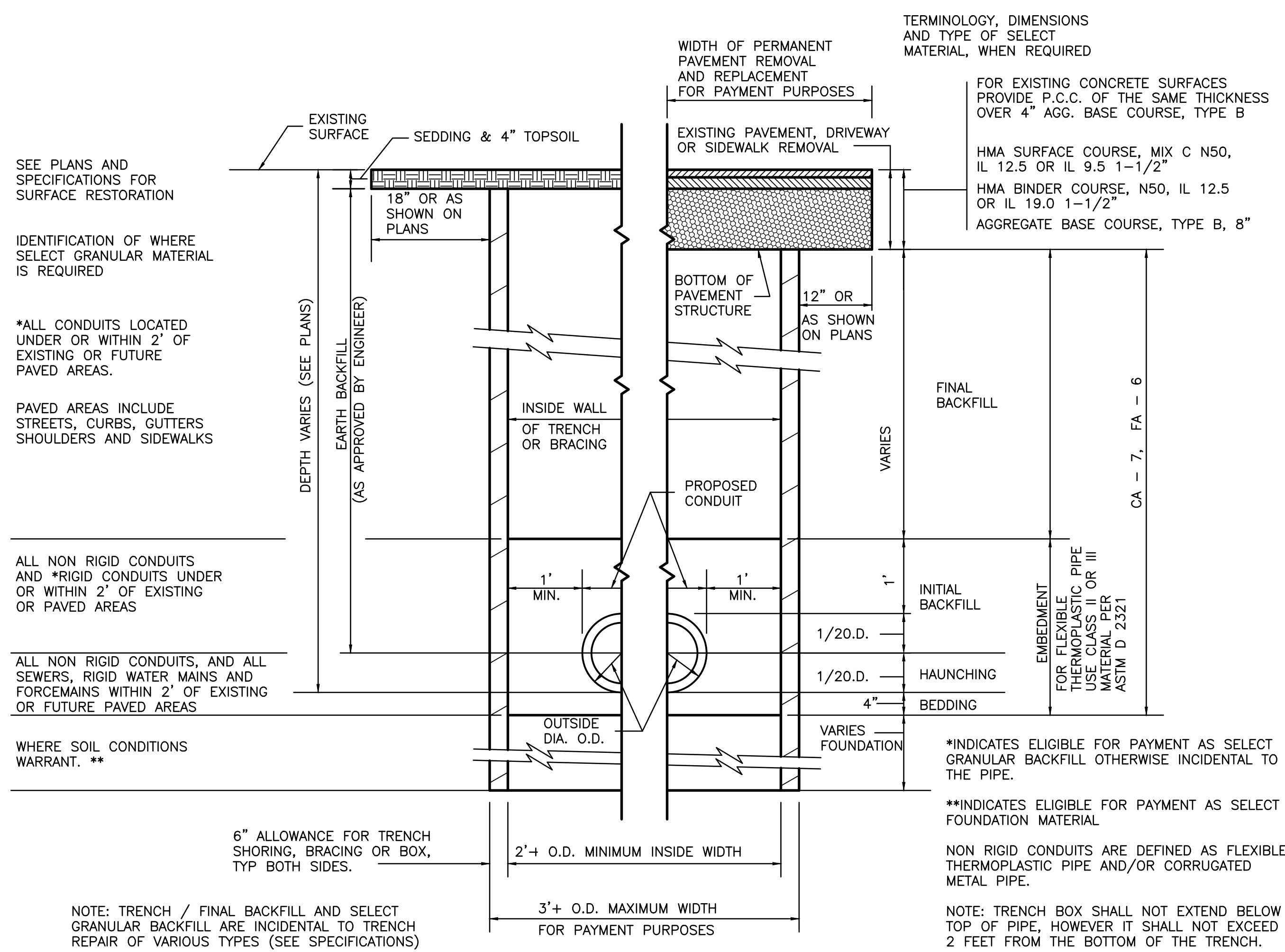
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ANTI-SEEP COLLAR DETAIL
NTS



MANHOLE TYPE A, 5' & LARGER
NOT TO SCALE



TYPICAL TRENCH DETAIL
NOT TO SCALE

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VILLAGE OF SHEFFIELD
EXCESS FLOW FACILITIES (RE-BID)
EXCESS FLOW LAGOON, PUMP STATION AND PIPING
SHEFFIELD, ILLINOIS
2022

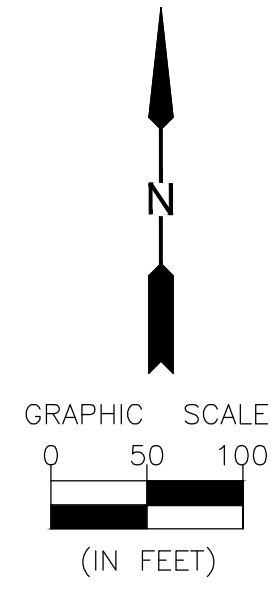
**MANHOLE AND AIR
RELEASE DETAILS**

**BIDDING
PLANS**

CURRENT AS OF: 04/04/2024

SCALE: AS NOTED SHEET 4

FILE NO.: 5856.00 Y- OF 15



B-2

666.87	MEDIUM STIFF
665.87	22" BLACK SILTY CLAY TOPSOIL
664.87	MEDIUM STIFF TO STIFF BROWN/GRAY SILTY CLAY
663.87	LOOSE BROWN FINE SAND
662.87	
661.87	STIFF BROWN/GRAY SILTY CLAY TILL
660.87	
659.87	
658.87	MEDIUM STIFF TO STIFF BROWN/GRAY SILTY CLAY TILL WITH SAND SEAMS
657.87	
656.87	MEDIUM STIFF BROWN SILTY CLAY TILL
655.87	
654.87	
653.87	MEDIUM STIFF BROWN/GRAY SILTY CLAY TILL
652.87	
651.87	
650.87	STIFF GRAY SILTY CLAY TILL
649.87	
648.87	
647.87	LOOSE GRAY SILT
646.87	
645.87	VERY LOOSE GRAY VERY FINE SAND

B-3

659.60	
658.60	MEDIUM STIFF 24" BLACK SILTY CLAY TOPSOIL
657.60	MEDIUM STIFF BROWN/GRAY SILTY CLAY
656.60	LOOSE GRAY FINE SAND
655.60	
654.60	MEDIUM DENSE BROWN GRAVELLY LOAM
653.60	
652.60	
651.60	MEDIUM STIFF TO STIFF BROWN/GRAY SILTY CLAY TILL WITH SAND SEAMS
650.60	
649.60	
648.60	
647.60	
646.60	
645.60	
644.60	MEDIUM STIFF TO STIFF GRAY SILTY CLAY TILL
643.60	
642.60	
641.60	
640.60	
639.60	
638.60	

BORING LOCATION MAP



B-1

663.41	
662.41	MEDIUM STIFF 22" BLACK SILTY CLAY TOPSOIL
661.41	
660.41	SOFT TO MEDIUM STIFF BROWN/GRAY SILTY CLAY TILL WITH SAND SEAMS
659.41	
658.41	
657.41	SOFT BROWN/GRAY SILTY CLAY TILL
656.41	
655.41	MEDIUM STIFF TO STIFF BROWN/GRAY SILTY CLAY TILL WITH SAND SEAMS
654.41	
653.41	
652.41	STIFF BROWN SILTY CLAY TILL
651.41	
650.41	STIFF BROWN/GRAY SILTY CLAY TILL
649.41	
648.41	
647.41	
646.41	
645.41	STIFF GRAY SILTY CLAY TILL
644.41	
643.41	
642.41	

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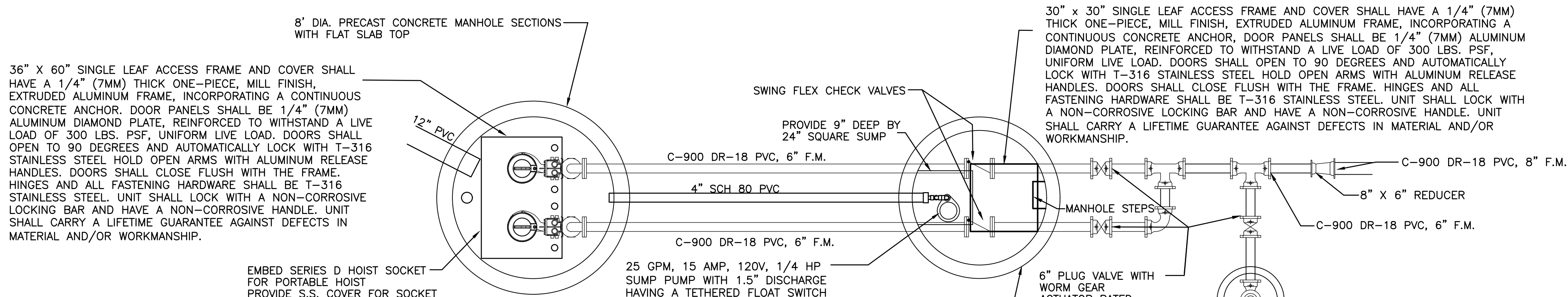
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VILLAGE OF SHEFFIELD
EXCESS FLOW FACILITIES (RE-BID)
EXCESS FLOW LAGOON, PUMP STATION AND PIPING
SHEFFIELD, ILLINOIS
2023

PROJECT BORING LOGS

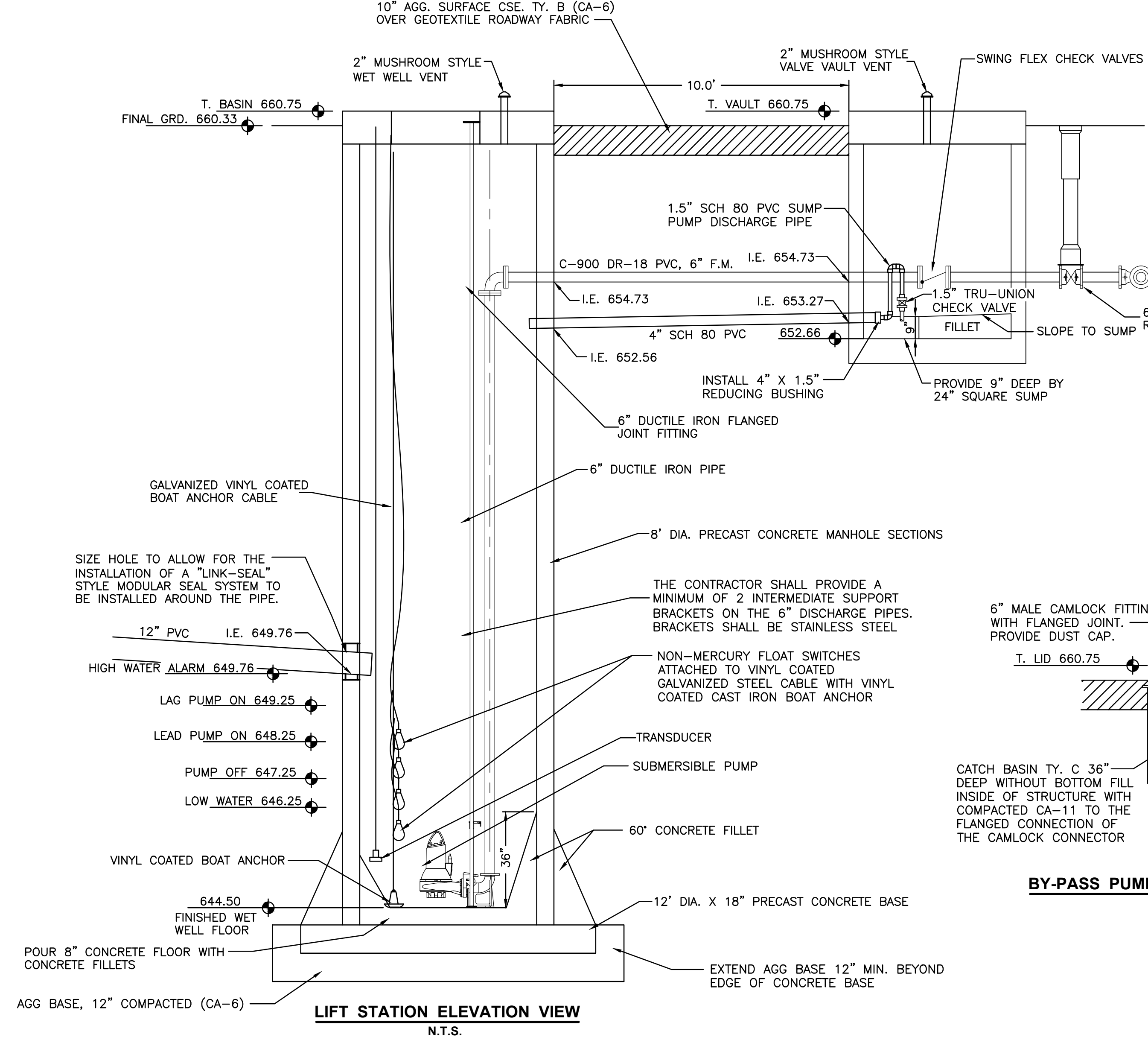
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LIFT STATION PLAN VIEW
N.T.S.

PROVIDE ADJUSTABLE REACH PORTABLE HOIST SIZED TO FACILITATE EQUIPMENT PLACEMENT AND REMOVAL. THE PORTABLE HOIST SHALL BE ALL T-304 STAINLESS STEEL CONSTRUCTION WITH STAINLESS STEEL BRAKE WINCH AND 30' (9M) OF T-304 STAINLESS STEEL CABLE WITH GALVANIZED SAFETY HOOK. THE DAVIT ARM SHALL ADJUST IN 1" (25MM) INCREMENTS FROM 24" TO 36" (610MM TO 914MM) AND THE OVERALL UNIT HEIGHT SHALL BE 60" (1.5M). THE PORTABLE HOIST SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIAL AND/OR WORKMANSHIP FOR A PERIOD OF 3 YEARS



LIFT STATION ELEVATION VIEW
N.T.S.

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ILLINOIS

VILLAGE OF SHEFFIELD
EXCESS FLOW FACILITIES (RE-BID)
EXCESS FLOW LAGOON, PUMP STATION AND PIPING
SHEFFIELD, ILLINOIS

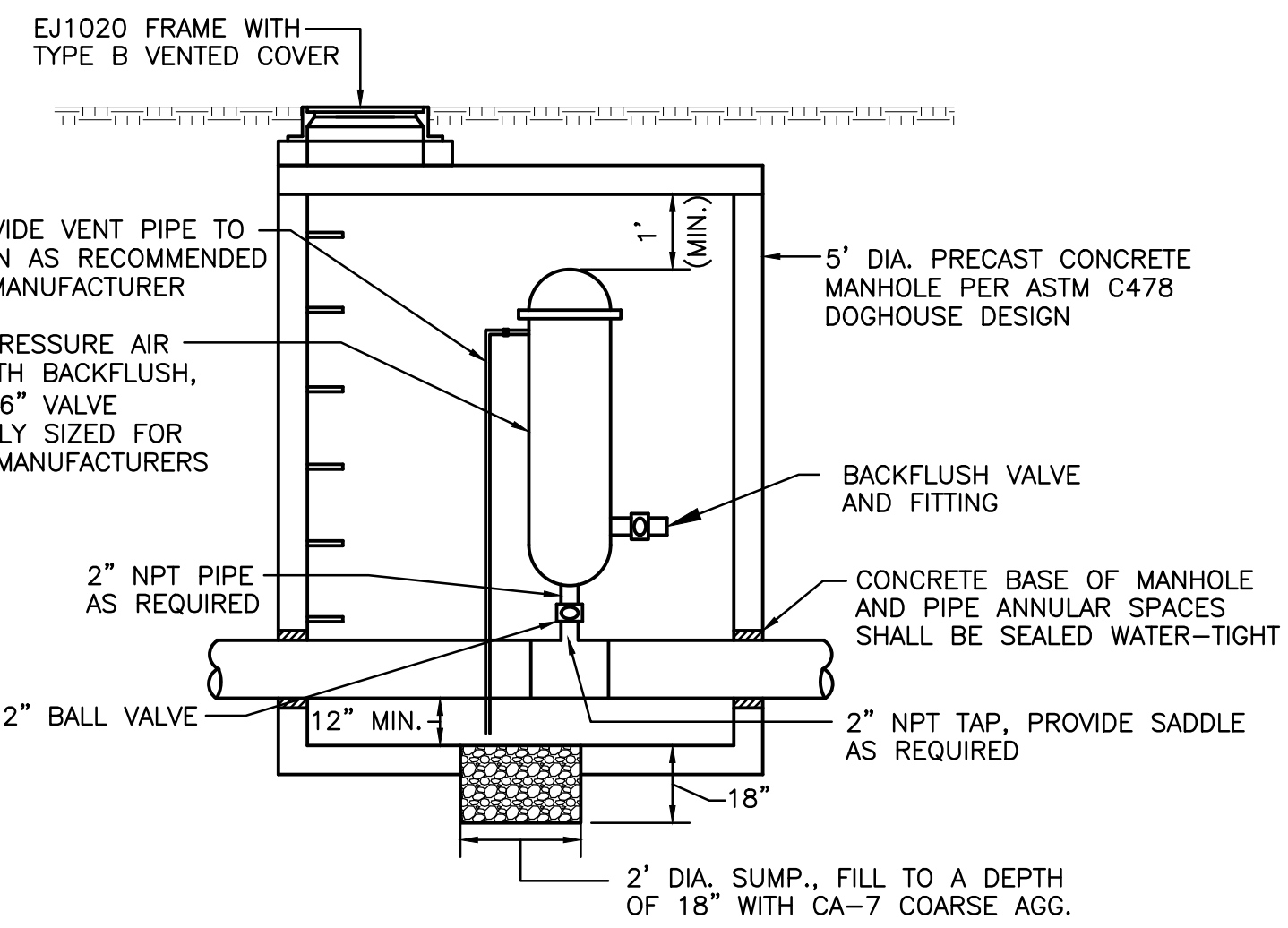
LIFT STATION AND
GENERAL DETAILS

BIDDING
PLANS

CURRENT AS OF: 04/04/2024

SCALE: AS NOTED SHEET 6

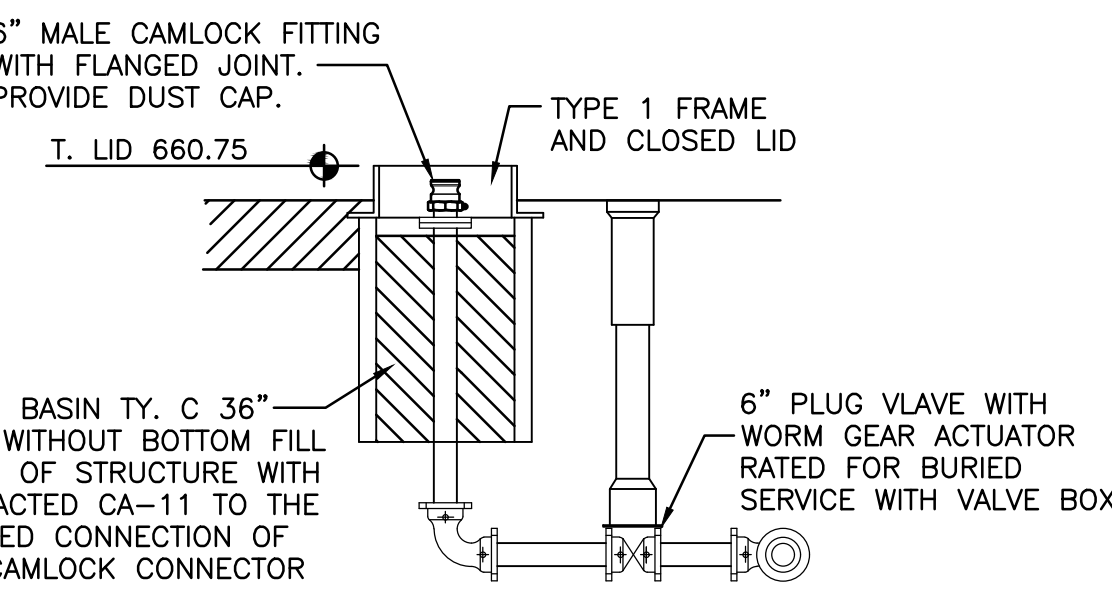
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AIR RELEASE MANHOLE DETAIL
NOT TO SCALE

NOTE:
PROVIDE CHAIR OR OTHER SUPPORT MEANS BELOW THE AIR RELEASE VALVE SO FORCE MAIN IS NOT SUPPORTING WEIGHT OF VALVE (66 LBS±). ALL MATERIAL AND WORK INDICATED IN THIS DETAIL SHALL BE INCLUDED IN THE PRICE FOR THIS AIR RELEASE MANHOLE ALTERNATE.

NOTE:
VALVE VAULT SHALL BE DESIGNED FOR GREATER THAN 100 psf FOR TOP AND NORMAL SOIL PRESSURES FOR WALLS, WITH MINIMUM 8" THICK TOP AND BOTTOM AND MINIMUM 6" THICK WALLS



BY-PASS PUMPING CONNECTION DETAIL
N.T.S.

PLUG VALVES SHALL BE ECCENTRIC, QUARTER-TURN, 100% PORT ECCENTRIC, WITH RESILIENT ENCAPSULATED PLUG. ALL GROOVED END VALVES SHALL MEET AWWA C-509 LAYING LENGTH REQUIREMENTS AND BE FROM ONE MANUFACTURER. VALVES TO BE BURIED SHALL BE GEAR ACTUATED FOR BURIED SERVICE WITH OPERATING NUT. PERMANENTLY LUBRICATED, RADIAL SHAFT BEARINGS SHALL BE SUPPLIED IN THE UPPER AND LOWER BEARING JOURNALS TO ELIMINATE THE NEED FOR GREASE FITTINGS. THRUST BEARINGS SHALL BE PROVIDED IN THE UPPER AND LOWER JOURNAL AREAS, EXCEPT FOR THREADED TYPE WHICH ONLY HAVE UPPER THRUST BEARINGS. MECHANICAL JOINT VALVES SHALL FULLY COMPLY WITH ANSI/AWWA C111/A21.11. PLUG VALVES SHALL HAVE SHAFT SEALS WHICH CONSIST OF V-TYPE PACKING IN A FIXED GLAND WITH AN ADJUSTABLE FOLLOWER AND REMOVABLE SHIMS UNDER THE FOLLOWER FLANGE TO PROVIDE FOR ADJUSTMENT AND PREVENT OVER COMPRESSION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TWO PROPERLY SIZED OPERATING TEE HANDLES. BURIED VALVES SHALL HAVE A CAST IRON VALVE BOX HAVING A MINIMUM 5-1/4" DIA., AND LID. THE LID SHALL NOT BE LABELED.

CHECK VALVES FOR SEWAGE SERVICE SHALL BE SWING, FLANGED, GROOVED CHECK VALVES WITH RUBBER SEAT. ALL GROOVED END VALVES SHALL MEET AWWA C-509 LAYING LENGTH REQUIREMENTS AND BE FROM ONE MANUFACTURER. VALVES SHALL BE SUITABLE FOR COLD WORKING PRESSURES UP TO 250 PSIG. THE VALVE BODY SHALL BE FULL FLOW EQUAL TO NOMINAL PIPE DIAMETER AT ALL POINTS THROUGH THE VALVE. THE SEATING SURFACE SHALL BE ON A 45 DEGREE ANGLE TO MINIMIZE DISC TRAVEL. A THREADED PORT WITH PIPE PLUG SHALL BE PROVIDED ON THE BOTTOM OF THE VALVE. THE TOP ACCESS PORT SHALL BE FULL SIZE, ALLOWING REMOVAL OF THE DISC WITHOUT REMOVING THE VALVE FROM THE LINE. A THREADED PORT WITH PIPE PLUG SHALL BE PROVIDED IN THE ACCESS COVER TO ALLOW FOR FIELD INSTALLATION OF A MECHANICAL, DISC POSITION INDICATOR. THE DISC SHALL BE OF ONE-PIECE CONSTRUCTION, PRECISION MOLDED WITH AN INTEGRAL O-RING TYPE SEALING SURFACE AND REINFORCED WITH ALLOY STEEL. THE FLEX PORTION OF THE DISC CONTAINS NYLON REINFORCEMENT AND SHALL BE WARRANTED FOR TWENTY-FIVE YEARS. NON-SLAM CLOSING CHARACTERISTICS SHALL BE PROVIDED THROUGH A SHORT 35 DEGREE DISC STROKE AND A MEMORY DISC RETURN ACTION TO PROVIDE A CRACKING PRESSURE OF 0.25 PSIG.

BACK FILL EXCAVATED AREA AROUND LIFT STATION AND VALVE VAULT WITH COMPACTED CA-11

LIFT STATION AND VALVE VAULT SHALL BE INSTALLED ON 12" AGG. BASE (CA-11)

FORCE MAIN PVC PIPE SHALL BE PUSH ON GASKETED JOINTS MEETING ASTM D-2241 AND ALSO CONFORMING ASTM F477 AND D-3139

FORCE MAIN FITTINGS SHALL BE DUCTILE IRON AND CONFORM TO ANSI/AWWA C110/A21.10 OR C153/A21.53 FITTINGS ARE TO BE CONSIDERED INCIDENTAL

INSTALL TRACER WIRE ON ALL NEW PVC PIPE

THE HOLES FOR THE FORCE MAIN PIPES SHALL NOT BE RADIAL

ALL PIPES, EXCEPT FOR THE 10" INFLUENT PIPE, SHALL BE CONNECTED TO STRUCTURES WITH RUBBER BOOTS HAVING STAINLESS STEEL CLAMPING BANDS

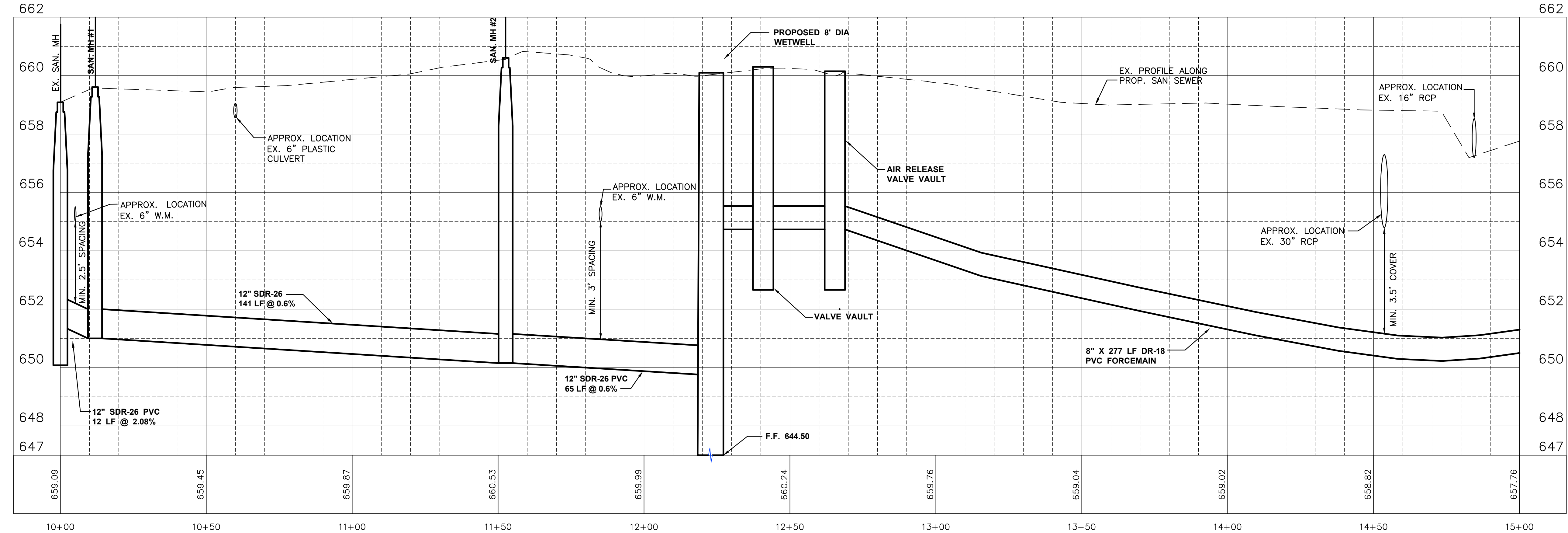
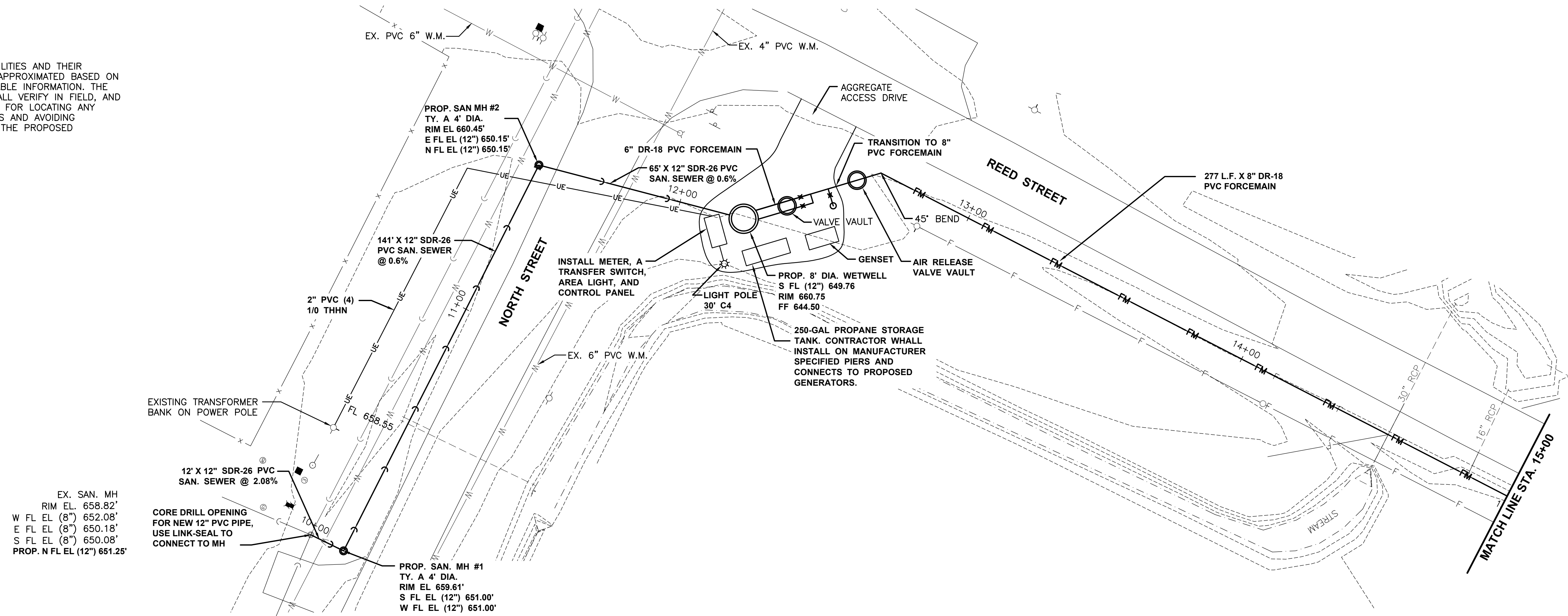
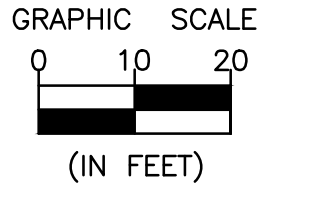
AS PART OF THE WORK THE CONTRACTOR SHALL FINAL GRADE SITE TO DRAIN, PROVIDE TOPSOIL, FERTILIZE, AND SEED AREA WITH A LAWN MIX GRASS SEED. PROVIDE MULCH TO PROTECT DISTURBED AREAS.

THE CONTRACTOR SHALL INSTALL AND TEST ALL REQUIRED PIPING AND MAKE TIE-IN CONNECTION TO EXISTING FORCE MAIN PROVIDING ALL REQUIRED FITTINGS AND RESTRAINTS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE PUMPS, CONTROL PANEL, AND RELATED EQUIPMENT FROM WEATHER, CONSTRUCTION DAMAGE, AND THEFT.

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ALL EXISTING UTILITIES AND THEIR LOCATIONS ARE APPROXIMATED BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY IN FIELD, AND BE RESPONSIBLE FOR LOCATING ANY EXISTING UTILITIES AND AVOIDING CONFLICTS WITH THE PROPOSED IMPROVEMENTS.



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DATE: 12/2022				

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OTTAWA MENDOTA
ILLINOIS

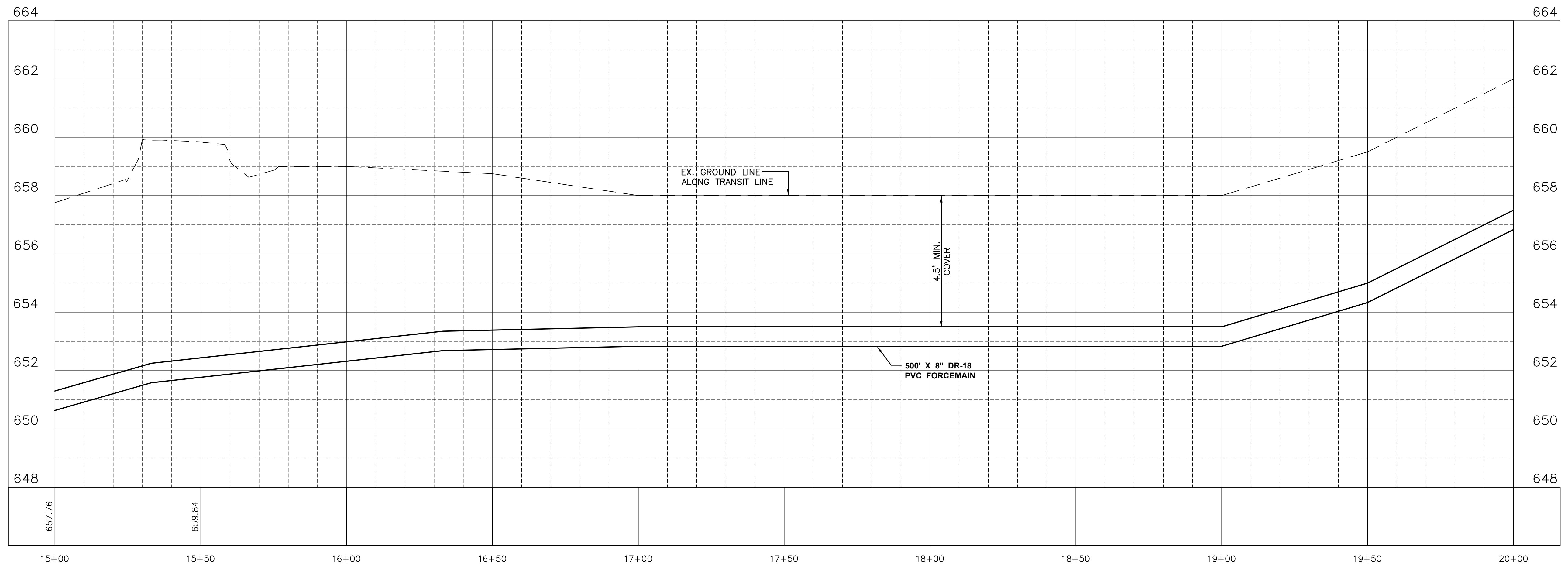
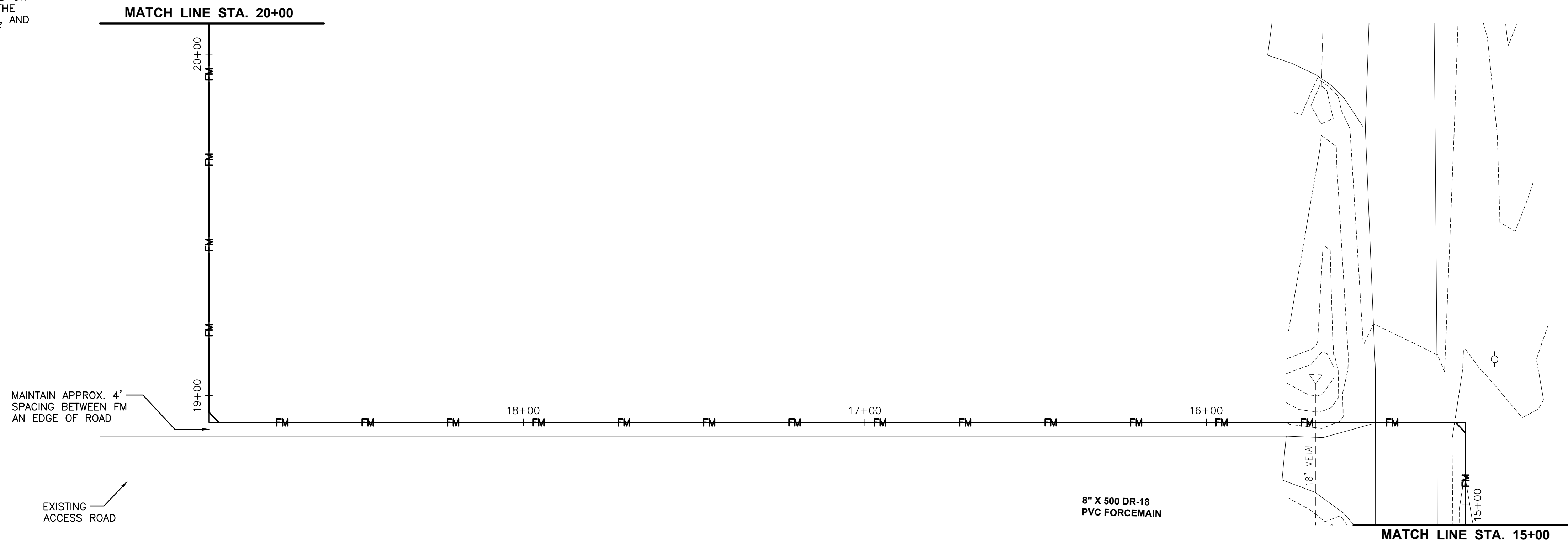
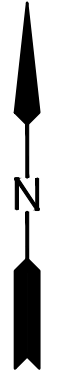
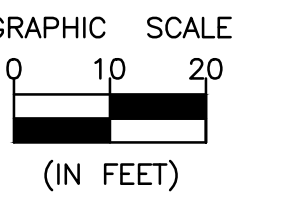
VILLAGE OF SHEFFIELD
EXCESS FLOW FACILITIES (RE-BID)
EXCESS FLOW LAGOON, PUMP STATION AND PIPING
SHEFFIELD, ILLINOIS
2023

PLAN AND PROFILE
STA. 10+00 TO STA. 15+00

BIDDING PLANS

CURRENT AS OF: 04/04/2024	
SCALE: AS NOTED	SHEET 7
FILE NO.: 5856.00	Y- OF 15

- ALL EXISTING UTILITIES AND THEIR LOCATIONS ARE APPROXIMATES BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY IN FIELD, AND BE RESPONSIBLE FOR LOCATING ANY EXISTING UTILITIES AND AVOIDING CONFLICTS WITH THE PROPOSED IMPROVEMENTS.



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ILLINOIS

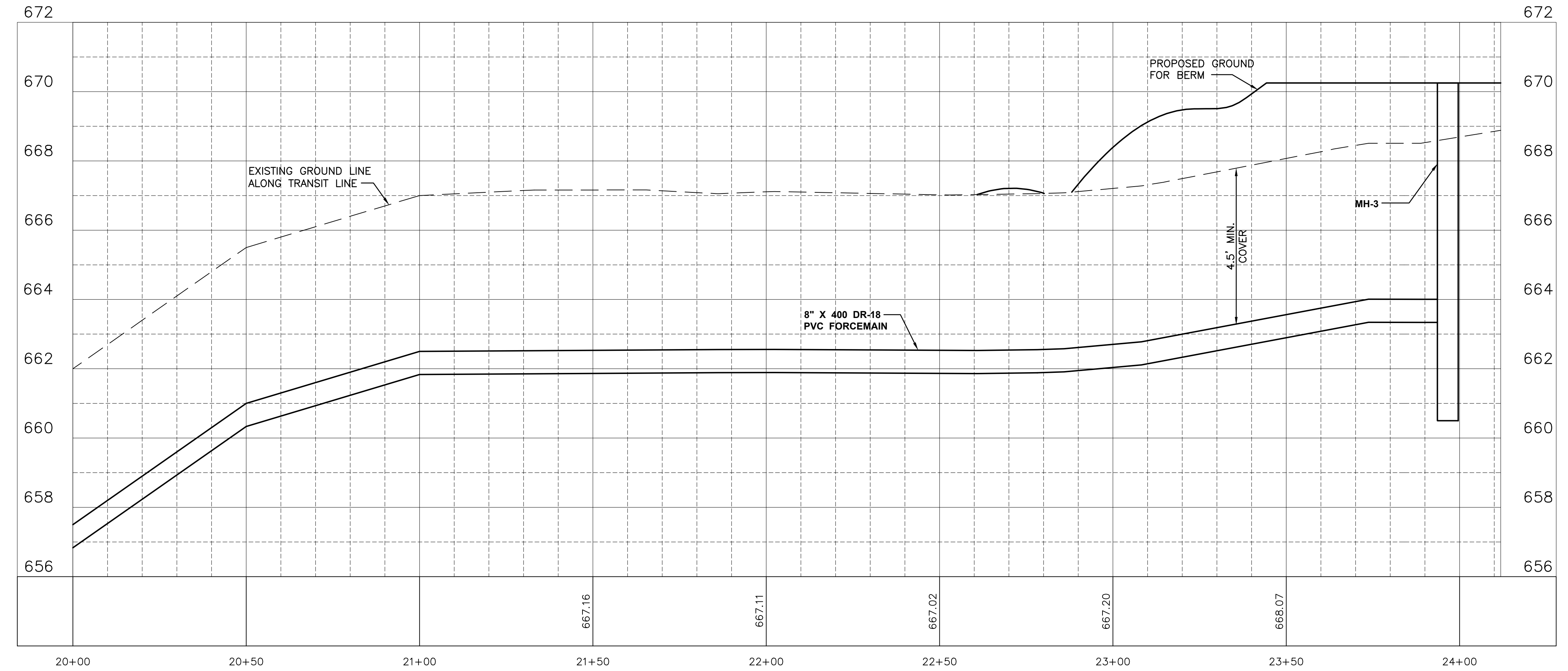
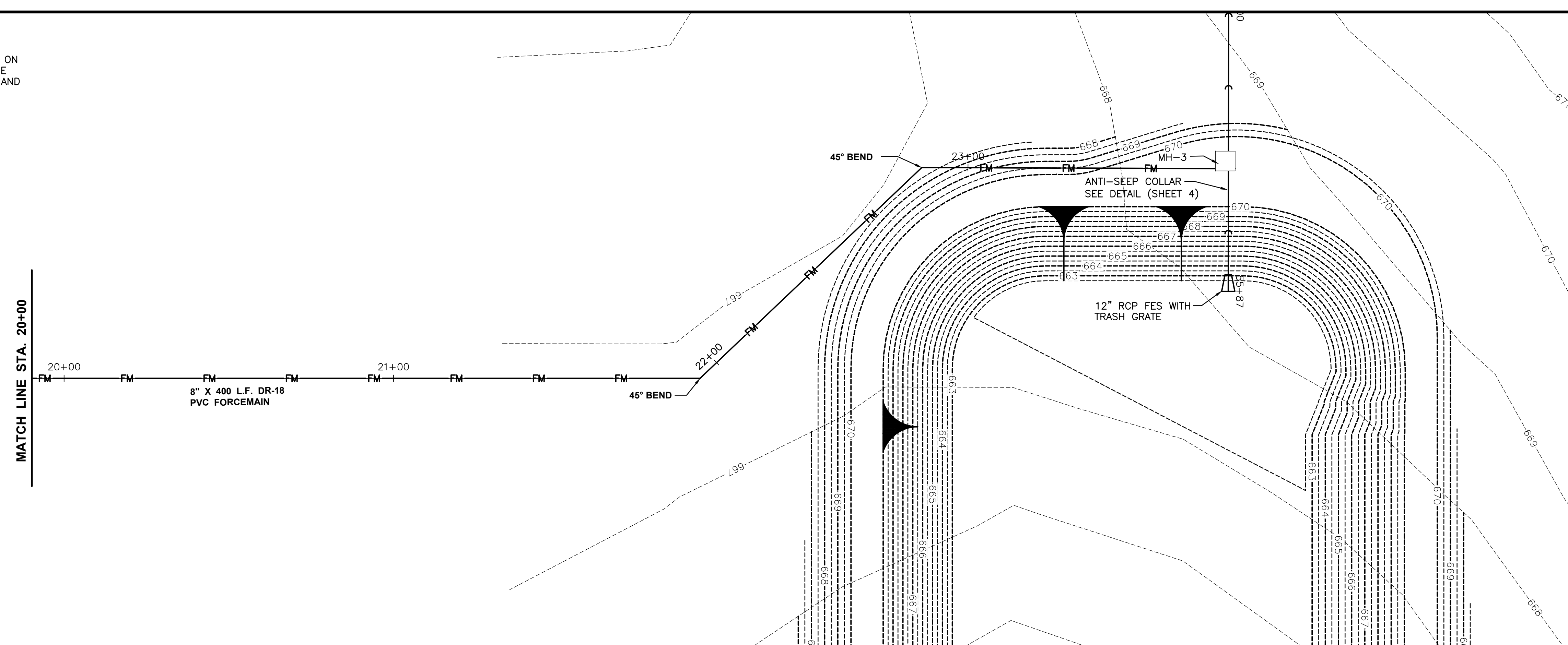
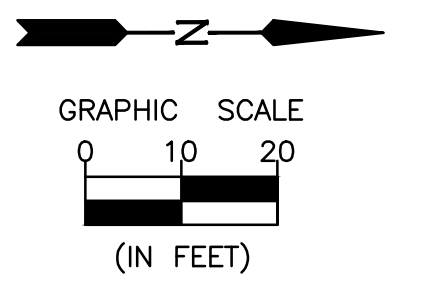
VILLAGE OF SHEFFIELD
EXCESS FLOW FACILITIES (RE-BID)
EXCESS FLOW LAGOON, PUMP STATION AND PIPING
SHEFFIELD, ILLINOIS
2023

PLAN AND PROFILE
STA. 15+00 TO STA. 20+00

BIDDING PLANS

CURRENT AS OF: 04/04/2024	
SCALE: AS NOTED	SHEET 8
FILE NO.: 5856.00	Y- OF 15

- ALL EXISTING UTILITIES AND THEIR LOCATIONS ARE APPROXIMATES BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY IN FIELD, AND BE RESPONSIBLE FOR LOCATING ANY EXISTING UTILITIES AND AVOIDING CONFLICTS WITH THE PROPOSED IMPROVEMENTS.



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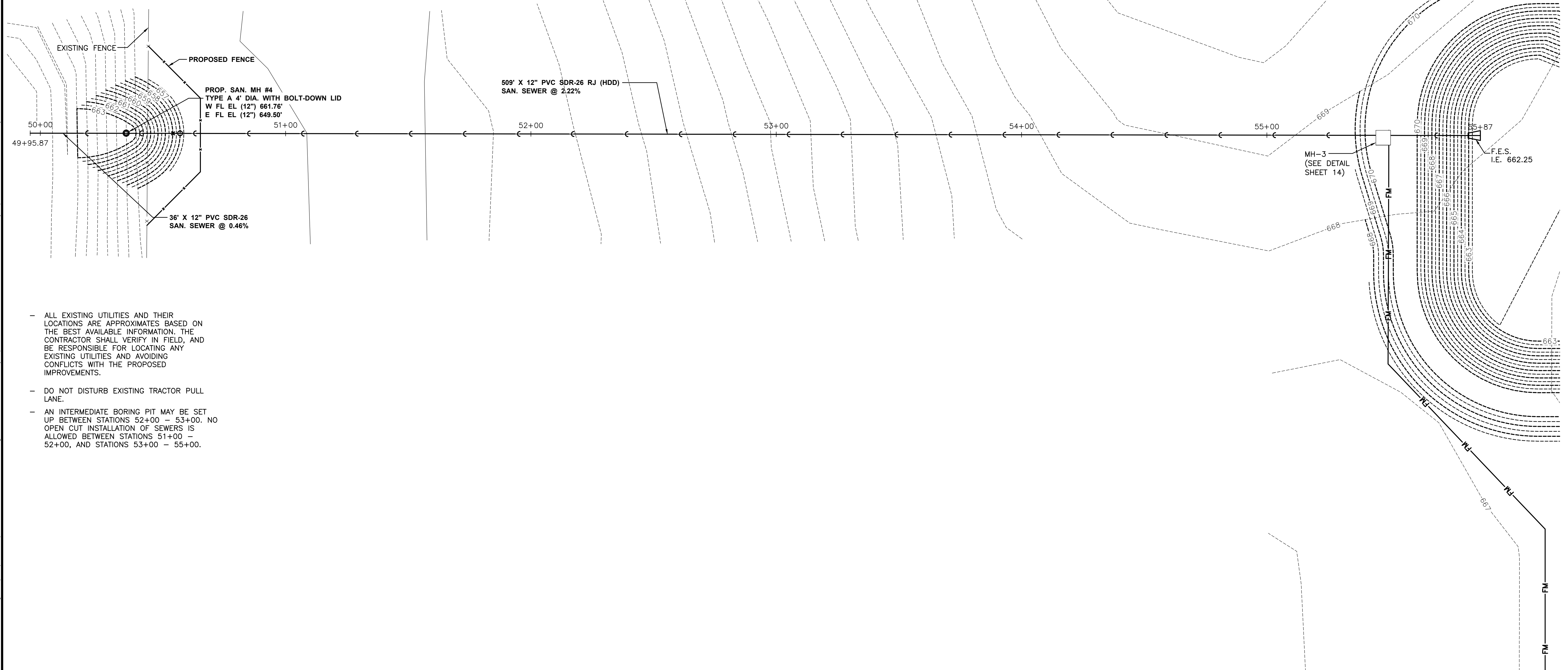
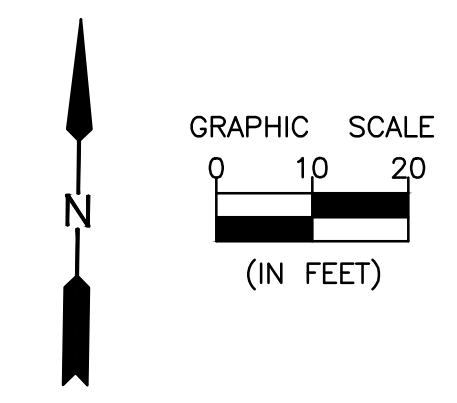
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OTTAWA MENDOTA
ILLINOIS

VILLAGE OF SHEFFIELD
EXCESS FLOW FACILITIES (RE-BID)
EXCESS FLOW LAGOON, PUMP STATION AND PIPING
SHEFFIELD, ILLINOIS
2023

PLAN AND PROFILE
STA. 20+00 TO STA. 24+12

BIDDING PLANS

CURRENT AS OF: 04/04/2024	
SCALE: AS NOTED	SHEET 9
FILE NO.: 5856.00	Y- OF 15



- ALL EXISTING UTILITIES AND THEIR LOCATIONS ARE APPROXIMATES BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY IN FIELD, AND BE RESPONSIBLE FOR LOCATING ANY EXISTING UTILITIES AND AVOIDING CONFLICTS WITH THE PROPOSED IMPROVEMENTS.
- DO NOT DISTURB EXISTING TRACTOR PULL LANE.
- AN INTERMEDIATE BORING PIT MAY BE SET UP BETWEEN STATIONS 52+00 - 53+00. NO OPEN CUT INSTALLATION OF SEWERS IS ALLOWED BETWEEN STATIONS 51+00 - 52+00, AND STATIONS 53+00 - 55+00.

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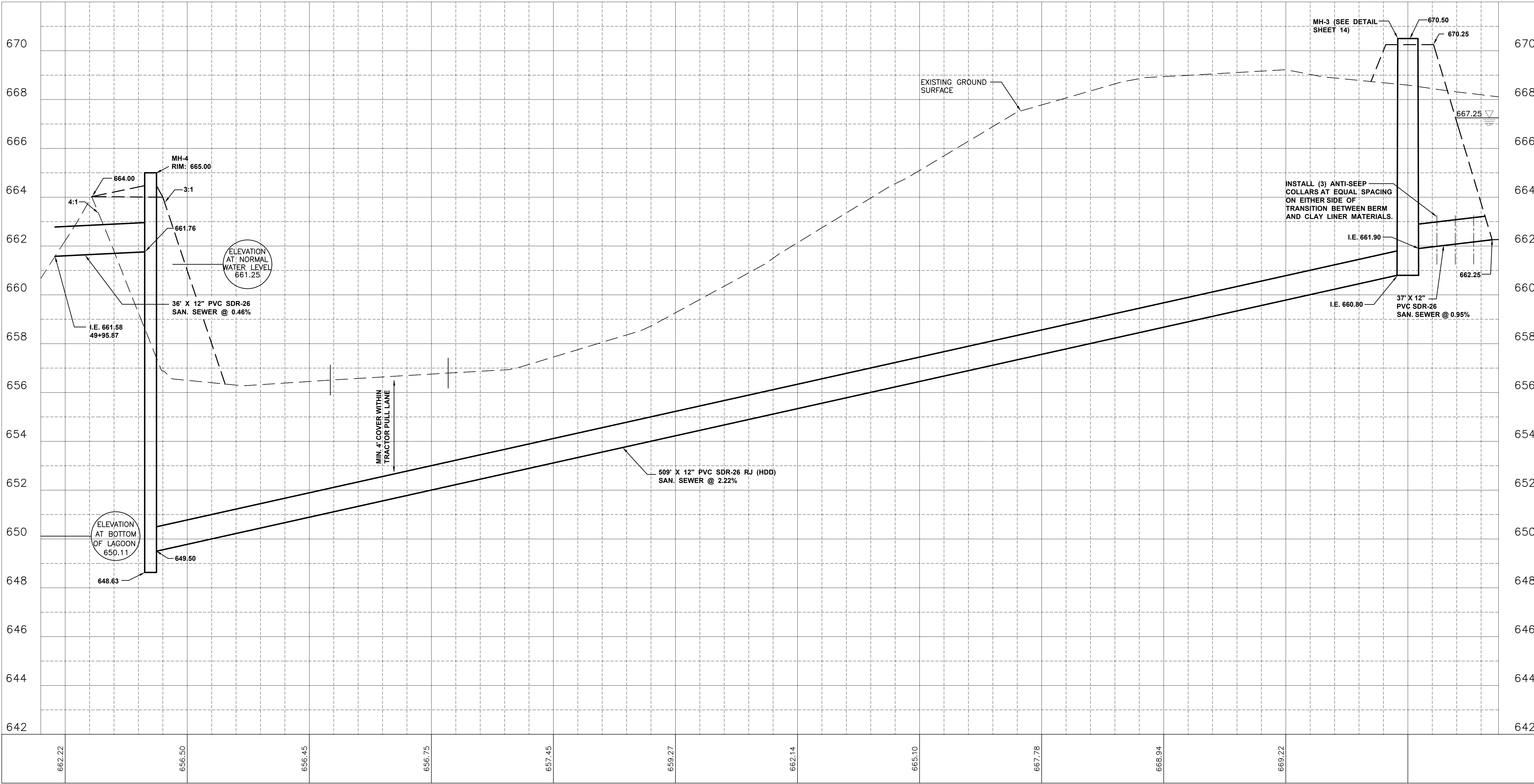
VILLAGE OF SHEFFIELD
 EXCESS FLOW FACILITIES (RE-BID)
 EXCESS FLOW LAGOON, PUMP STATION AND PIPING
 SHEFFIELD, ILLINOIS
2023

PLAN
 STA. 50+00 TO STA. 55+87

BIDDING PLANS	CURRENT AS OF: 04/04/2024	
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672

672



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By: Jonathan Covert

- ALL EXISTING UTILITIES AND THEIR LOCATIONS ARE APPROXIMATES BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY IN FIELD, AND BE RESPONSIBLE FOR LOCATING ANY EXISTING UTILITIES AND AVOIDING CONFLICTS WITH THE PROPOSED IMPROVEMENTS.

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VILLAGE OF SHEFFIELD
EXCESS FLOW FACILITIES (RE-BID)
EXCESS FLOW LAGOON, PUMP STATION AND PIPING
SHEFFIELD, ILLINOIS
2023

PROFILE
STA. 50+00 TO STA. 55+87

BIDDING PLANS

CURRENT AS OF: 04/04/2024	
SCALE: AS NOTED	SHEET 11
FILE NO.: 5856.00	OF 15

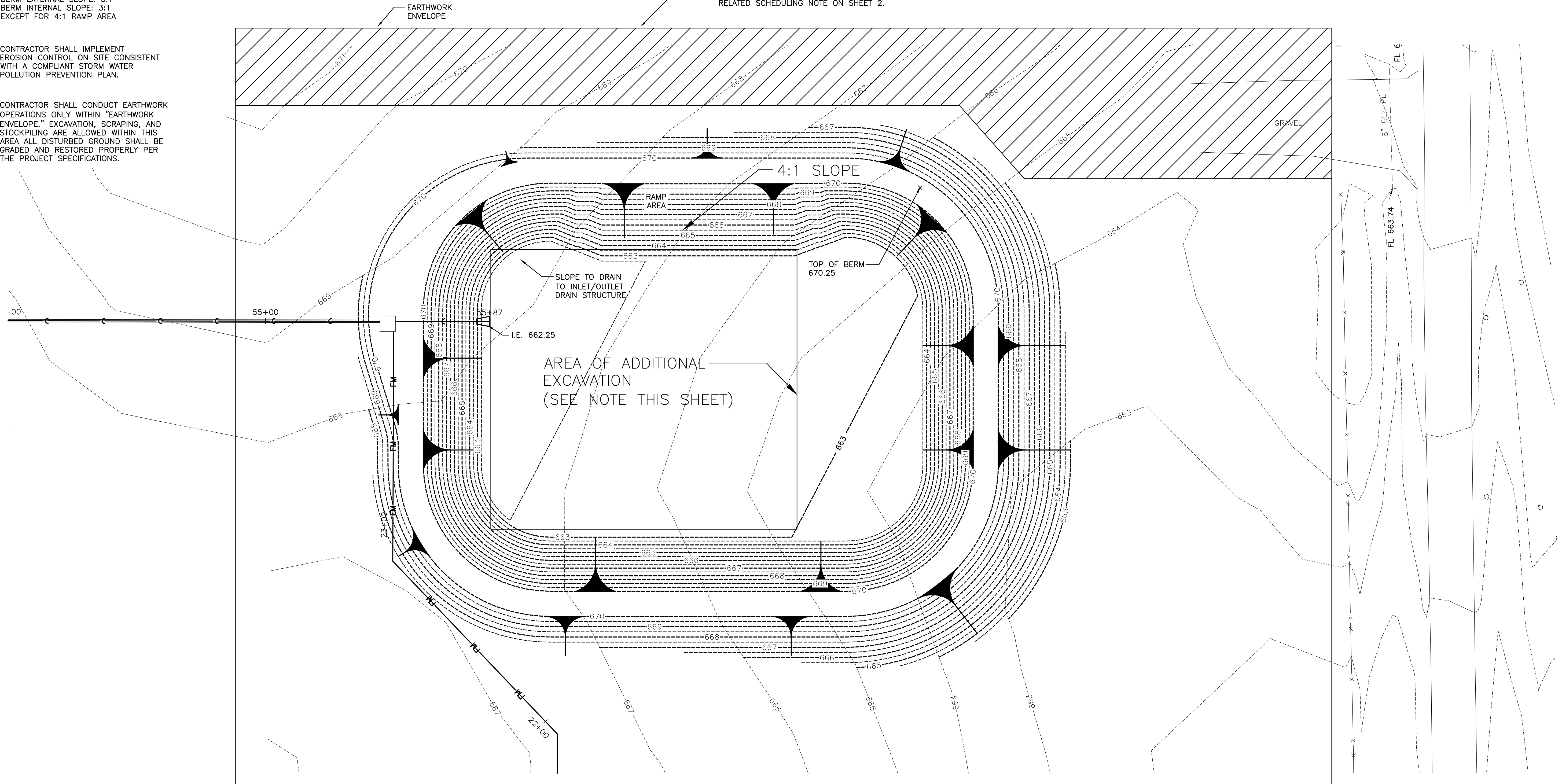
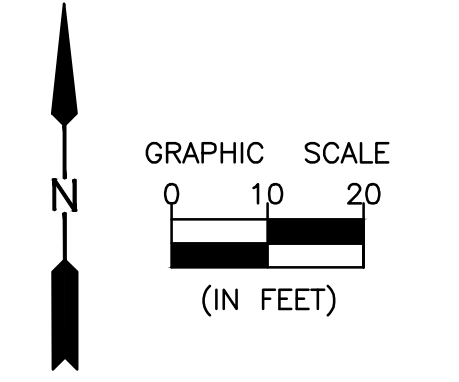
PER THE PROJECT BORING LOGS AND SOIL ANALYSES, SUITABLE MATERIAL EXISTS ON SITE TO GENERATE SUFFICIENT VOLUME TO CONSTRUCT THE COMPACTED CLAY LINER. THE AREA OF ADDITIONAL EXCAVATION IS THE SUGGESTED AREA WHERE EXCAVATION BE CONTINUED APPROXIMATELY 3.5' BEYOND THE PROPOSED FINISHED GRADE OF THE LAGOON.

BERM EXTERNAL SLOPE: 3:1
 BERM INTERNAL SLOPE: 3:1
 EXCEPT FOR 4:1 RAMP AREA

CONTRACTOR SHALL IMPLEMENT EROSION CONTROL ON SITE CONSISTENT WITH A COMPLIANT STORM WATER POLLUTION PREVENTION PLAN.

CONTRACTOR SHALL CONDUCT EARTHWORK OPERATIONS ONLY WITHIN "EARTHWORK ENVELOPE." EXCAVATION, SCRAPING, AND STOCKPILING ARE ALLOWED WITHIN THIS AREA ALL DISTURBED GROUND SHALL BE GRADED AND RESTORED PROPERLY PER THE PROJECT SPECIFICATIONS.

HATCHED AREA: CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THIS AREA TO ALLOW PASSAGE OF VEHICLES AND TRACTOR-TRAILERS UNTIL AT LEAST JULY 15, 2024. SEE RELATED SCHEDULING NOTE ON SHEET 2.



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 OTTAWA MENDOTA
 ILLINOIS

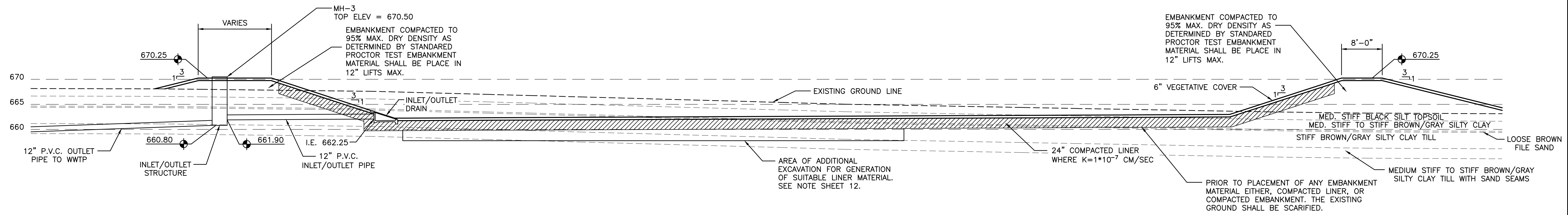
VILLAGE OF SHEFFIELD
 EXCESS FLOW FACILITIES (RE-BID)
 EXCESS FLOW LAGOON, PUMP STATION AND PIPING
 SHEFFIELD, ILLINOIS
 2022

LAGOON SITE PLAN

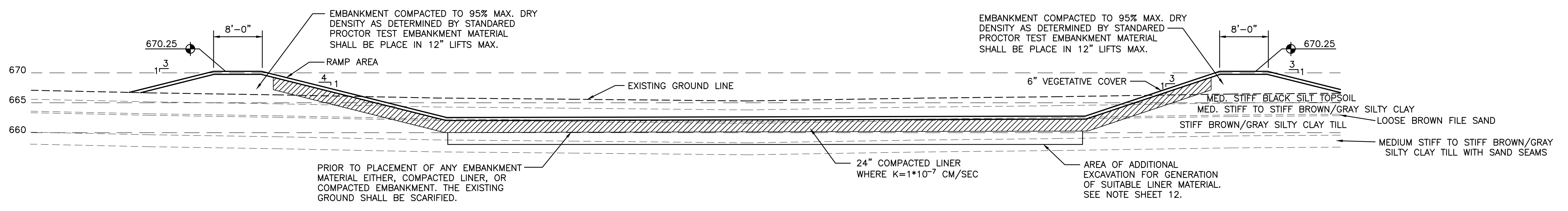
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CURRENT AS OF: 04/04/2024	
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WEST - EAST LAGOON TYPICAL SECTION
 N.T.S.



NORTH - SOUTH LAGOON TYPICAL SECTION
 N.T.S.

SOIL LAYERS IN TYPICAL SECTIONS ARE FOR REFERENCE ONLY. SOIL BORINGS ON SHEET 5 SHALL BE REFERRED TO FOR SPECIFIC DEPTHS AND DESCRIPTIONS

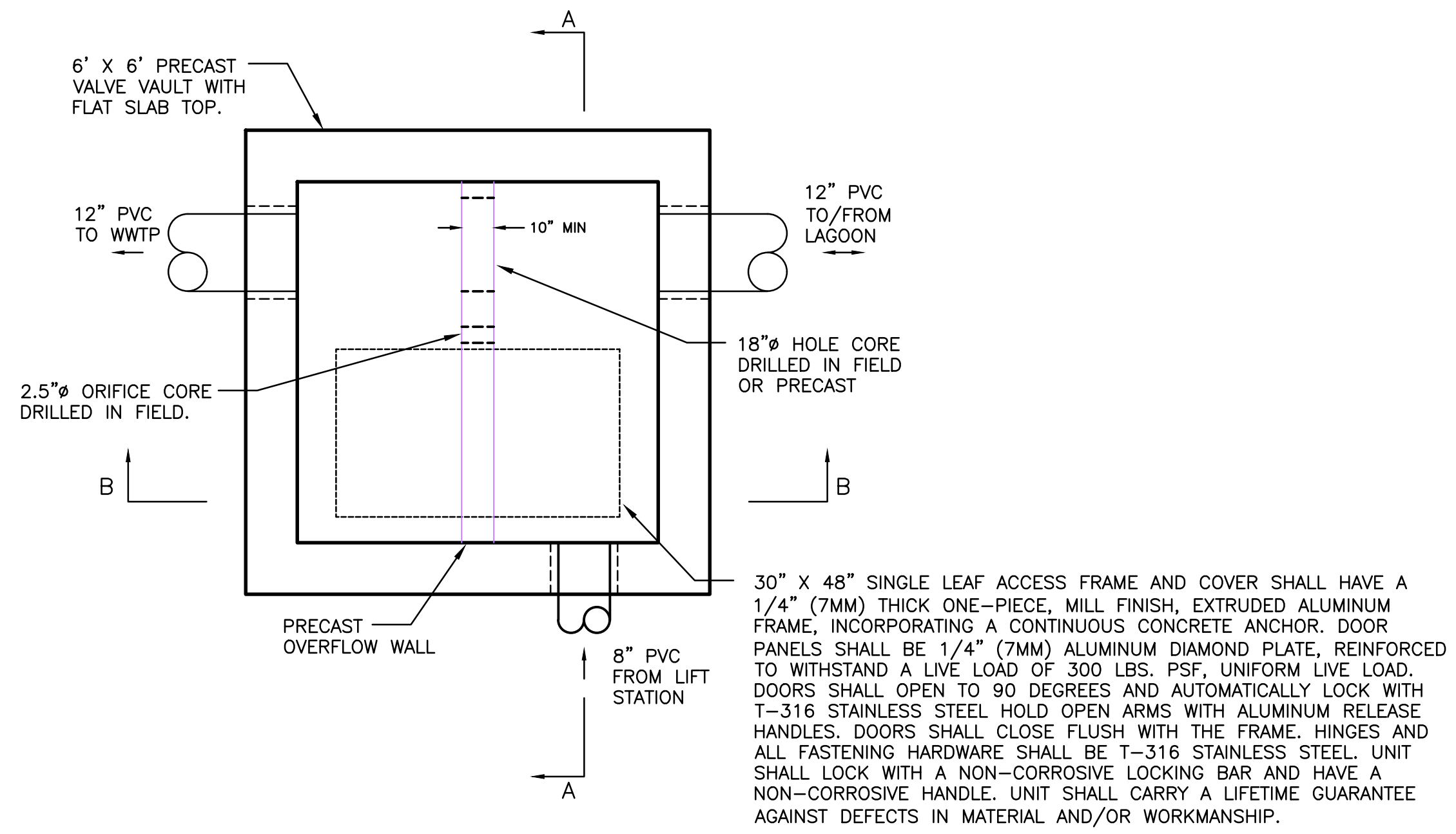
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PERU MORRIS
 OTTAWA MENDOTA
 ILLINOIS

VILLAGE OF SHEFFIELD
 EXCESS FLOW FACILITIES (RE-BID)
 EXCESS FLOW LAGOON, PUMP STATION AND PIPING
 SHEFFIELD, ILLINOIS
 2022

LAGOON DETAILS

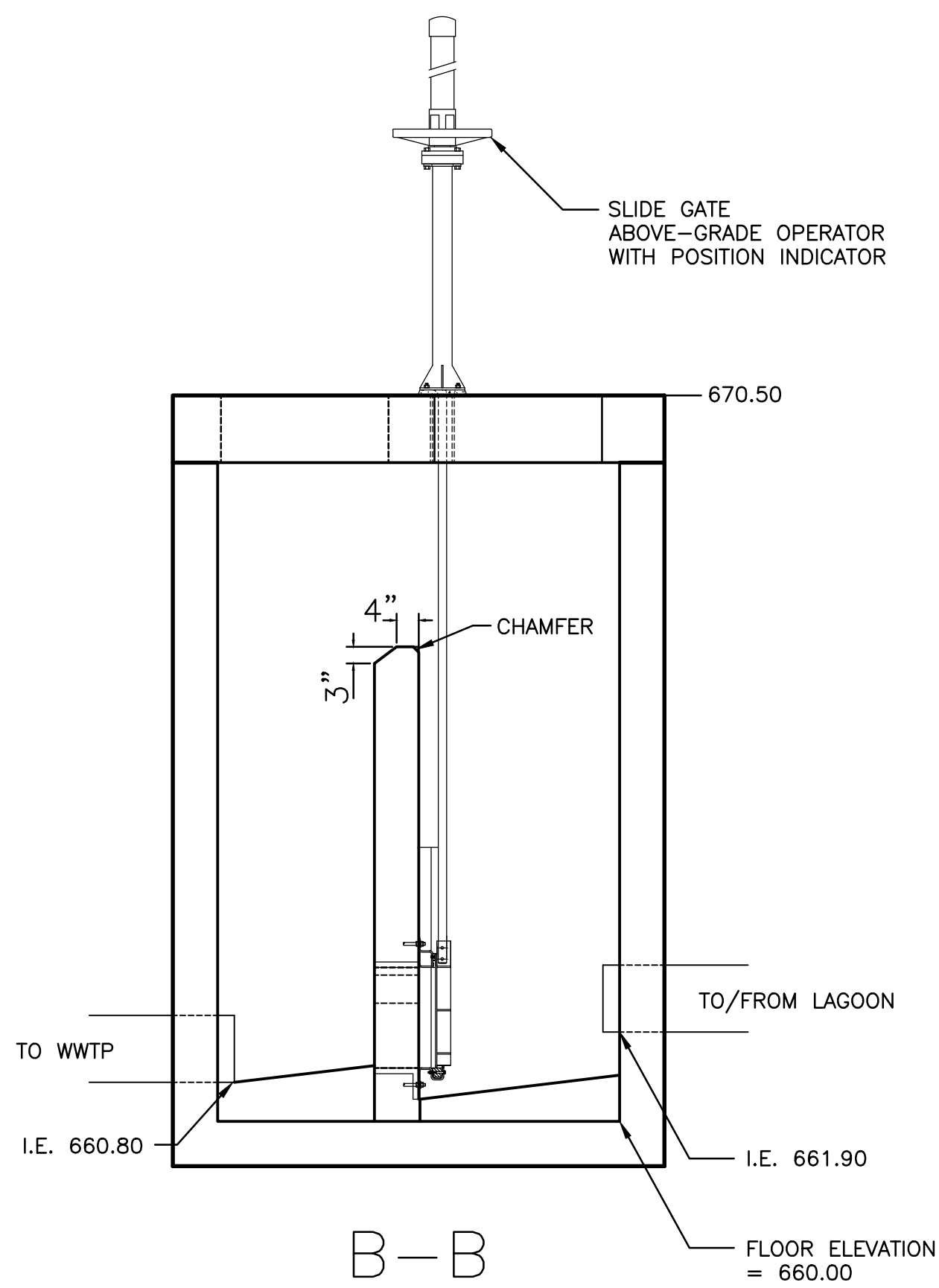
BIDDING PLANS	CURRENT AS OF: 04/04/2024	SHEET 13
	SCALE: AS NOTED	OF 15
	FILE NO.: 5856.00	Y-



30" X 48" SINGLE LEAF ACCESS FRAME AND COVER SHALL HAVE A 1/4" (7MM) THICK ONE-PIECE, MILL FINISH, EXTRUDED ALUMINUM FRAME, INCORPORATING A CONTINUOUS CONCRETE ANCHOR. DOOR PANELS SHALL BE 1/4" (7MM) ALUMINUM DIAMOND PLATE, REINFORCED TO WITHSTAND A LIVE LOAD OF 300 LBS. PSF, UNIFORM LIVE LOAD. DOORS SHALL OPEN TO 90 DEGREES AND AUTOMATICALLY LOCK WITH T-316 STAINLESS STEEL HOLD OPEN ARMS WITH ALUMINUM RELEASE HANDLES. DOORS SHALL CLOSE FLUSH WITH THE FRAME. HINGES AND ALL FASTENING HARDWARE SHALL BE T-316 STAINLESS STEEL. UNIT SHALL LOCK WITH A NON-CORROSIVE LOCKING BAR AND HAVE A NON-CORROSIVE HANDLE. UNIT SHALL CARRY A LIFETIME GUARANTEE AGAINST DEFECTS IN MATERIAL AND/OR WORKMANSHIP.

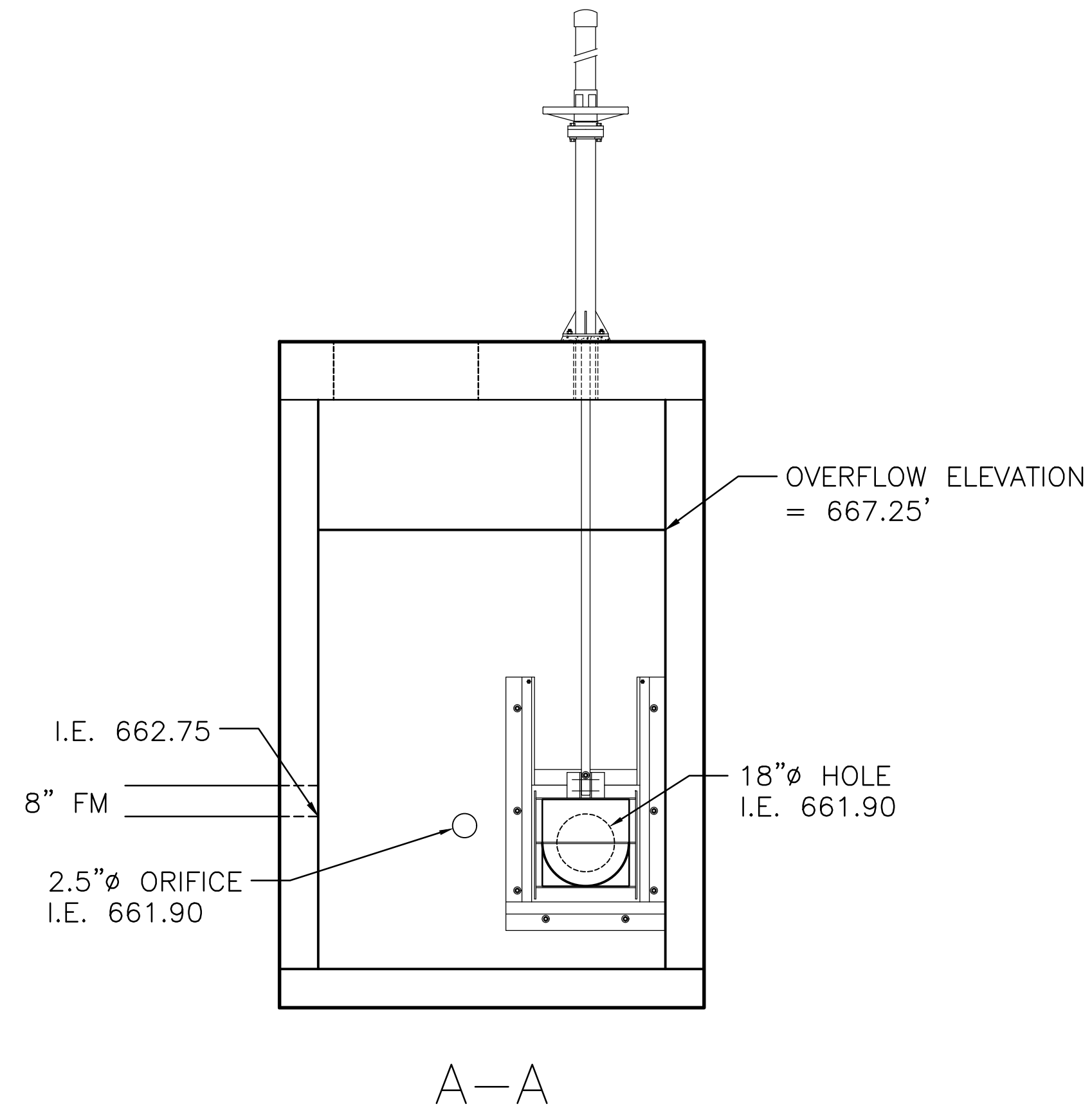
SIZE HOLES TO ALLOW FOR THE INSTALLATION OF A "LINK-SEAL" STYLE MODULAR SEAL SYSTEM TO BE INSTALLED AROUND THE PIPE.

SLOPE FLOOR TO DRAIN WITH CONCRETE FILLET POURED IN FIELD



MH-3 STRUCTURE DETAILS

N.T.S.



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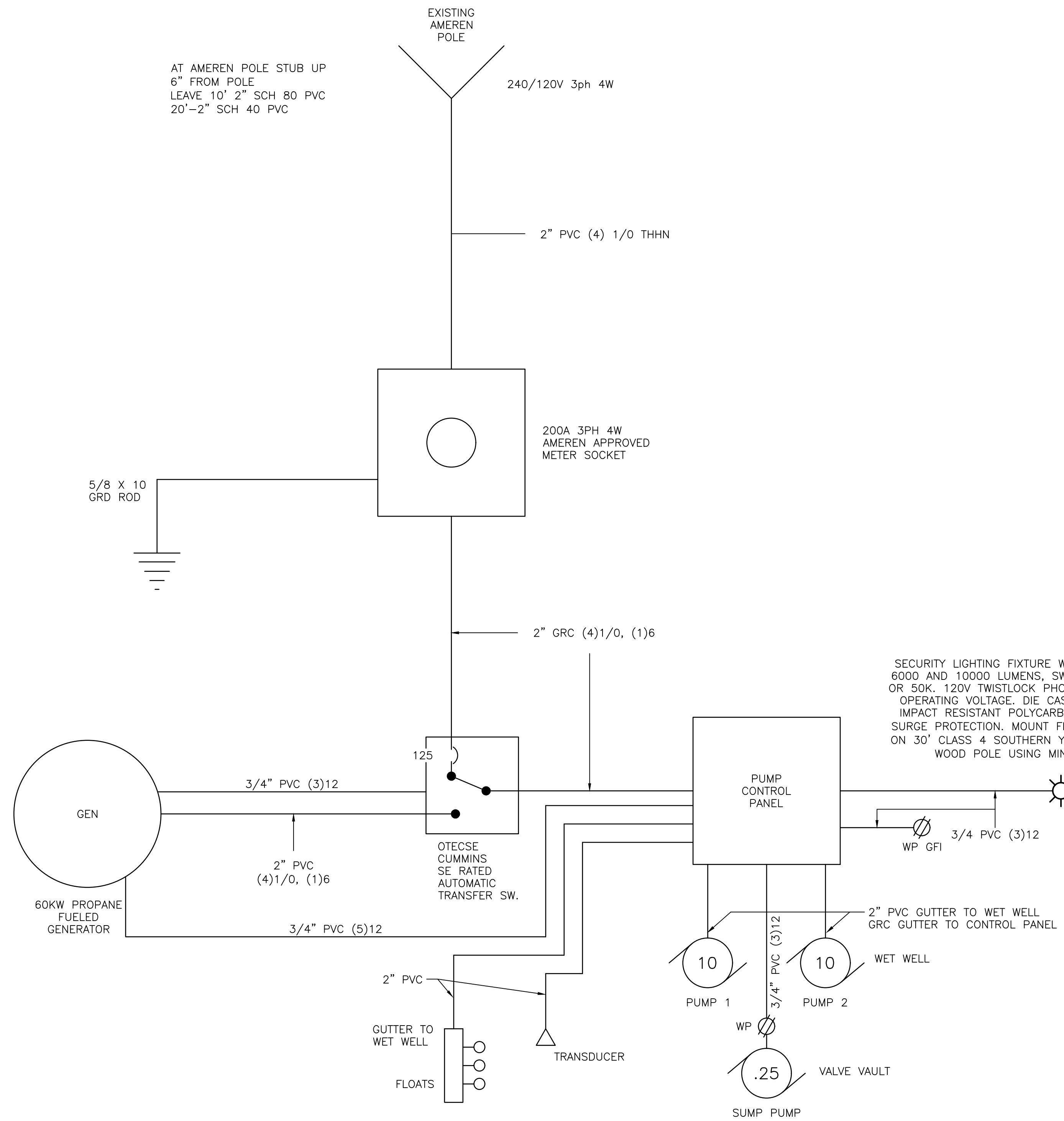
VILLAGE OF SHEFFIELD
EXCESS FLOW FACILITIES (RE-BID)
EXCESS FLOW LAGOON, PUMP STATION AND PIPING
SHEFFIELD, ILLINOIS
2023

**MH-3
DETAILS**

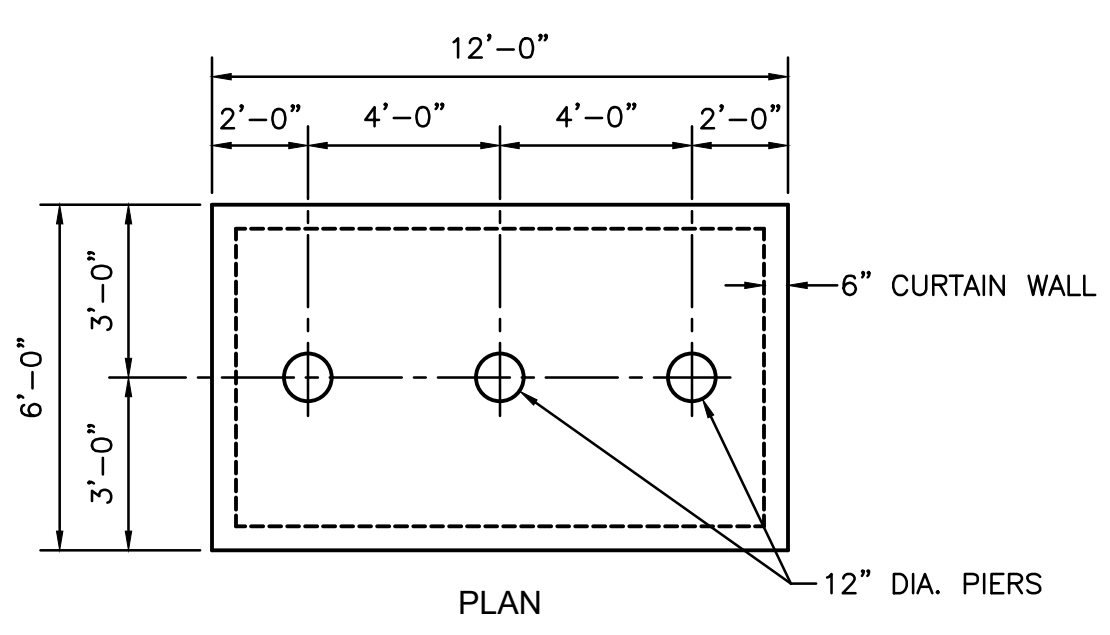
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PLANS**

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FILE NO.: 5856.00 Y-	OF 15

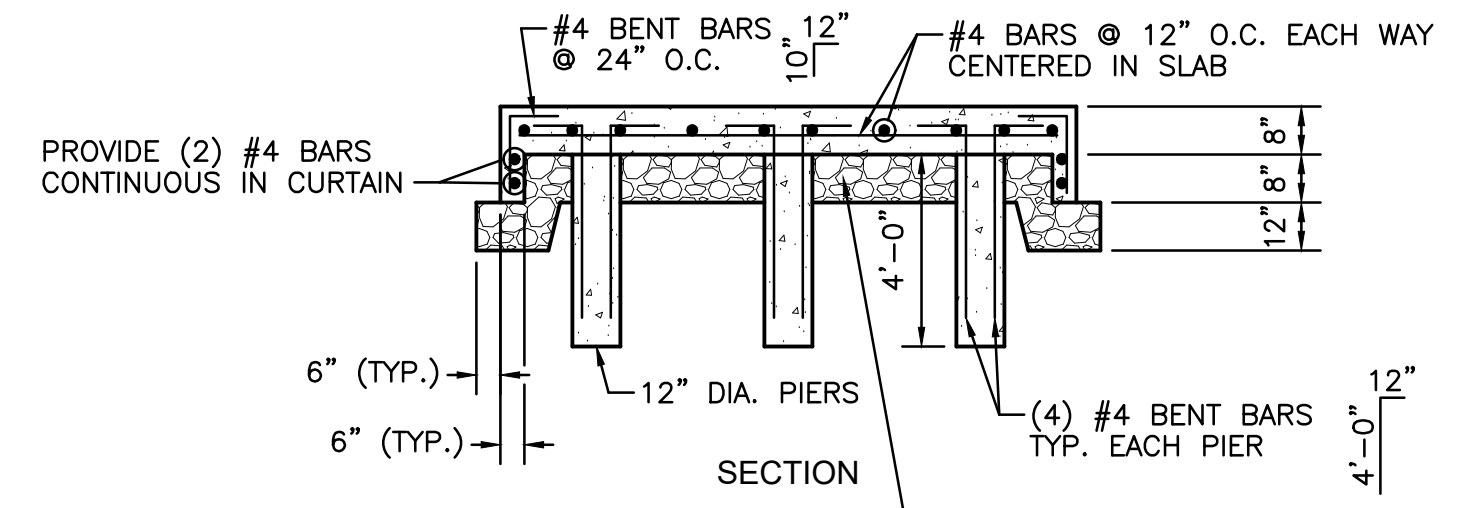
ALL SERVICE CONSTRUCTION TO BE IN COMPLIANCE WITH AMEREN REGULATIONS SECTION 700 OF SERVICE MANUAL



SINGLE LINE DIAGRAM

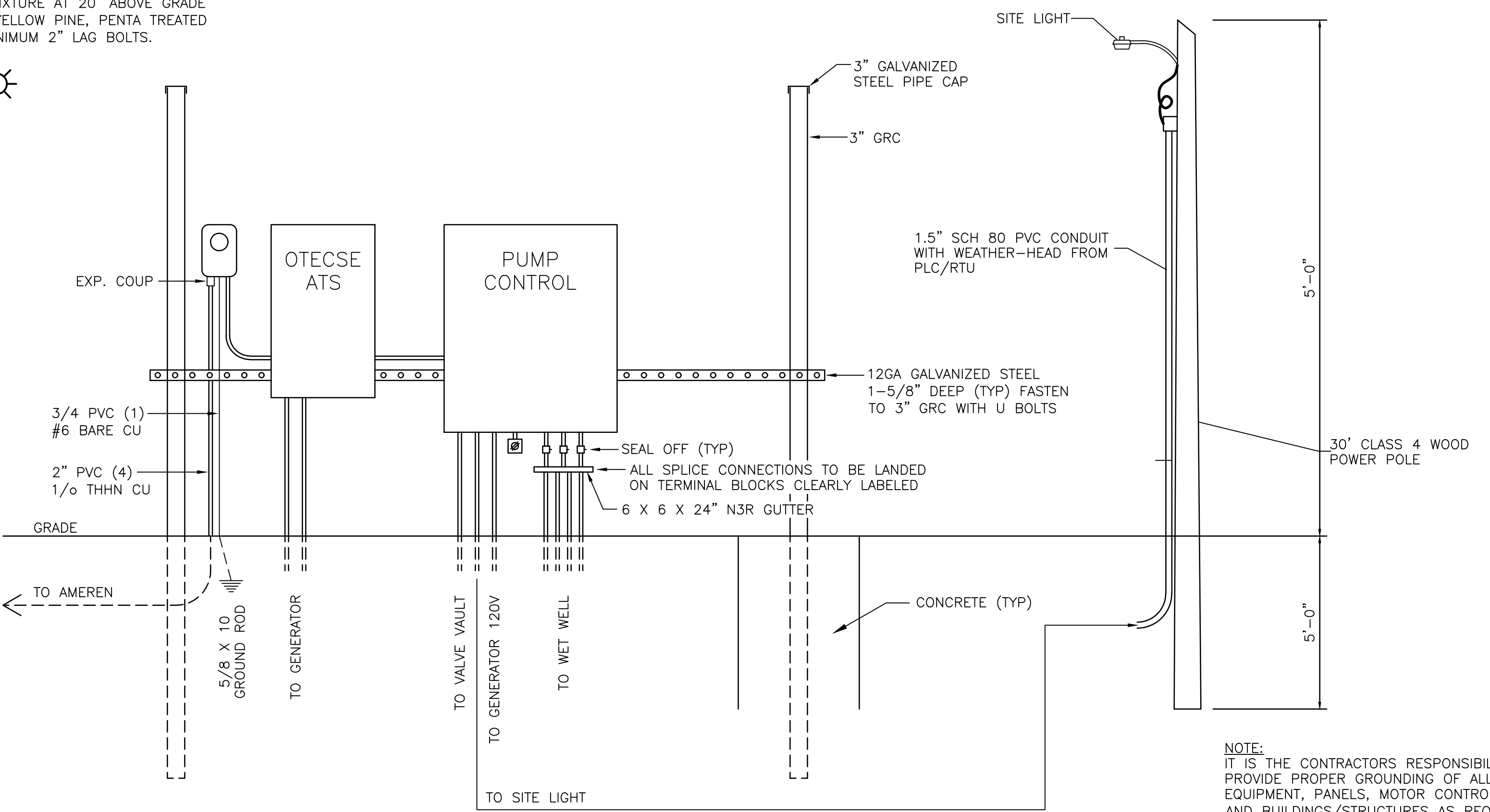


PROVIDE 3/4" CHAMFER ON ALL OUTSIDE CORNERS BOTH HORIZONTAL AND VERTICAL



GEN. SET BASE DETAIL

N.T.S.



NOTE: IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE PROPER GROUNDING OF ALL EQUIPMENT, PANELS, MOTOR CONTROL CENTERS, AND BUILDINGS/STRUCTURES AS REQUIRED BY CODE WHETHER SHOWN OR NOT.

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ILLINOIS

VILLAGE OF SHEFFIELD
EXCESS FLOW FACILITIES (RE-BID)
EXCESS FLOW LAGOON, PUMP STATION AND PIPING
SHEFFIELD, ILLINOIS

LIFT STATION
SINGLE LINE ELECTRICAL DIAGRAM

BIDDING PLANS

CURRENT AS OF: 04/04/2024

SCALE: AS NOTED SHEET 15

FILE NO.: 5856.00 Y- OF 15