

RESOLUTION AMENDING RESOLUTION 2024-456 APPROVING PLANS FOR THE JEFFERSON BOOSTER STATION REPLACEMENT PROJECT, AUSTINBURG TOWNSHIP, ACDES

WHEREAS, Raymond Nevison, Director of the Ashtabula County Department of Environmental Services (ACDES), has presented an amendment to the detailed construction plans approved in 2024 by Resolution 2024-456 pertaining to the Jefferson booster station replacement, relocation project in Austinburg Township, and

WHEREAS, the project is located on St Rt 307 moving from the existing location on ST Rt 307 just east of Hickok to further down ST RT 307 just east of the SR 307 and ST RT 45 intersection in Austinburg, Austinburg Township, and

WHEREAS, Ryan Schuster, with Verdantas LLC has reviewed and amended the plans, as noted, and recommend that the Board of Commissioners approve such plans; now

THEREFORE, BE IT RESOLVED, by the Board of Commissioners of the County of Ashtabula, Ohio, that:

Section 1. The Amendment to the detailed construction plans for the Jefferson Booster Station replacement, relocation project, Austinburg Township, is hereby approved.

Section 2. Those amended detailed plans shall be filed in the office of the Ashtabula County Sanitary Engineer, in the Department of Environmental Services and kept continuously on file there for inspection by all persons interested therein.

Section 3. This Board finds and determines that all formal actions of this Board concerning and relating to the adoption of this resolution were taken in an open meeting of the Board and all deliberations of this Board and of any of its committees that resulted in those formal actions were in meetings open to the public.

**ASHTABULA COUNTY COMMISSIONERS
CERTIFICATION PAGE**

Resolution No. 2026-299

July 07, 2026

**RESOLUTION AMENDING RESOLUTION 2024-456 APPROVING PLANS FOR THE
JEFFERSON BOOSTER STATION REPLACEMENT PROJECT, AUSTINBURG
TOWNSHIP, ACDES**

Upon the motion of Kathryn L. Whittington, seconded by J.P. Ducro IV.

VOTE:

**Casey R. Kozlowski
Kathryn L. Whittington
J.P. Ducro IV**

**Aye
Aye
Aye**

CERTIFICATE OF CLERK

IT IS HEREBY CERTIFIED that the foregoing is a true and correct transcript of a resolution acted upon and duly passed by the Board of County Commissioners of Ashtabula County, Ohio, on the date noted above.

Lisa Hawkins

Lisa Hawkins, Clerk of the Board
Board of County Commissioners
Ashtabula County, Ohio

ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES

JEFFERSON BOOSTER STATION REPLACEMENT

AUSTINBURG

OHIO 811 DESIGN SERIAL NUMBER & UTILITY LIST:

OHIO UTILITY PROTECTION SERVICE:
106 WEST RYEN, ROOM 427
YOUNGSTOWN, 44051
(800) 362-2764

CLEVELAND ELECTRIC ILLUMINATING CO:
2210 SOUTH RIDGE ROAD
ASHTABULA, OHIO 44004

THE EAST OHIO GAS COMPANY:
1010 WEST 30TH STREET
ASHTABULA, OHIO 44004
(440) 992-5100

ALL-TEL:
360 HIGHLAND ROAD
MACEDONIA, OHIO 44067
(800) 782-6206

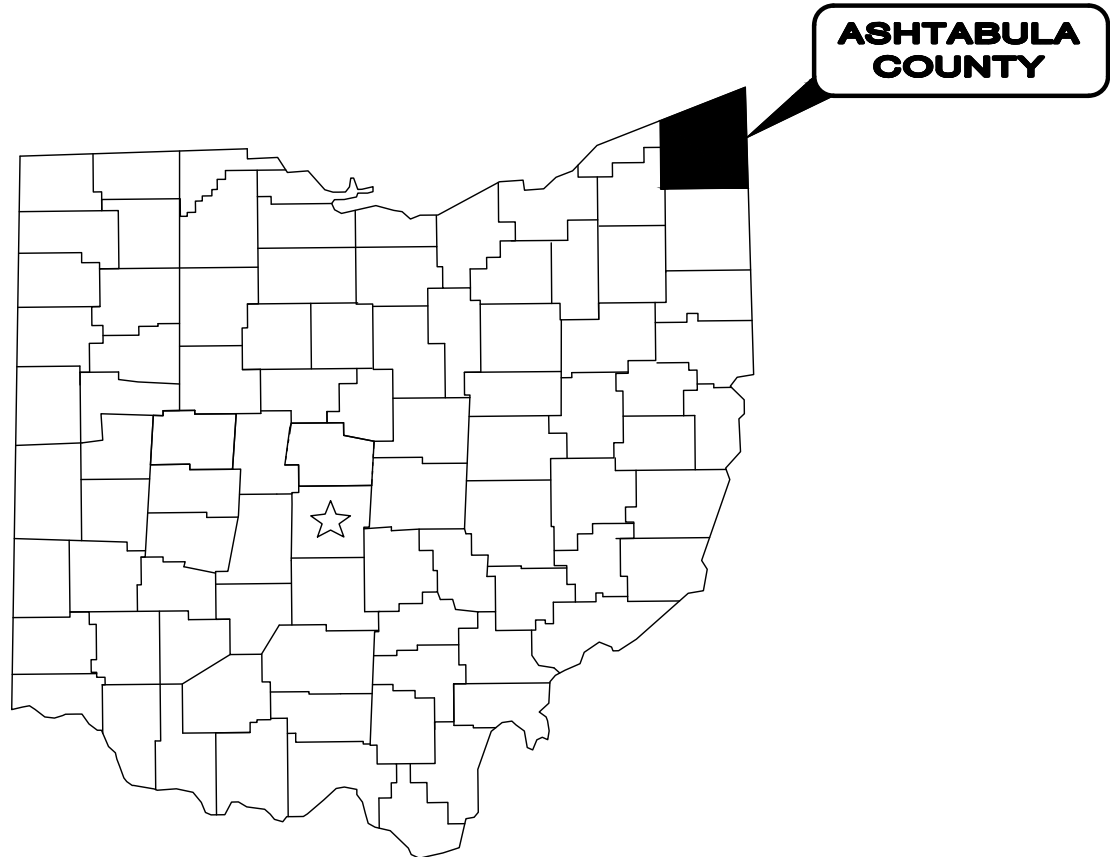
SPRINT:
PO BOX 3555
MANSFIELD, OHIO 44907
(800) 786-6272



ENVIRONMENTAL SERVICES:
36 W. WALNUT STREET
JEFFERSON, OHIO 44047
(440) 576-3722 PHONE
(440) 576-3781 FAX

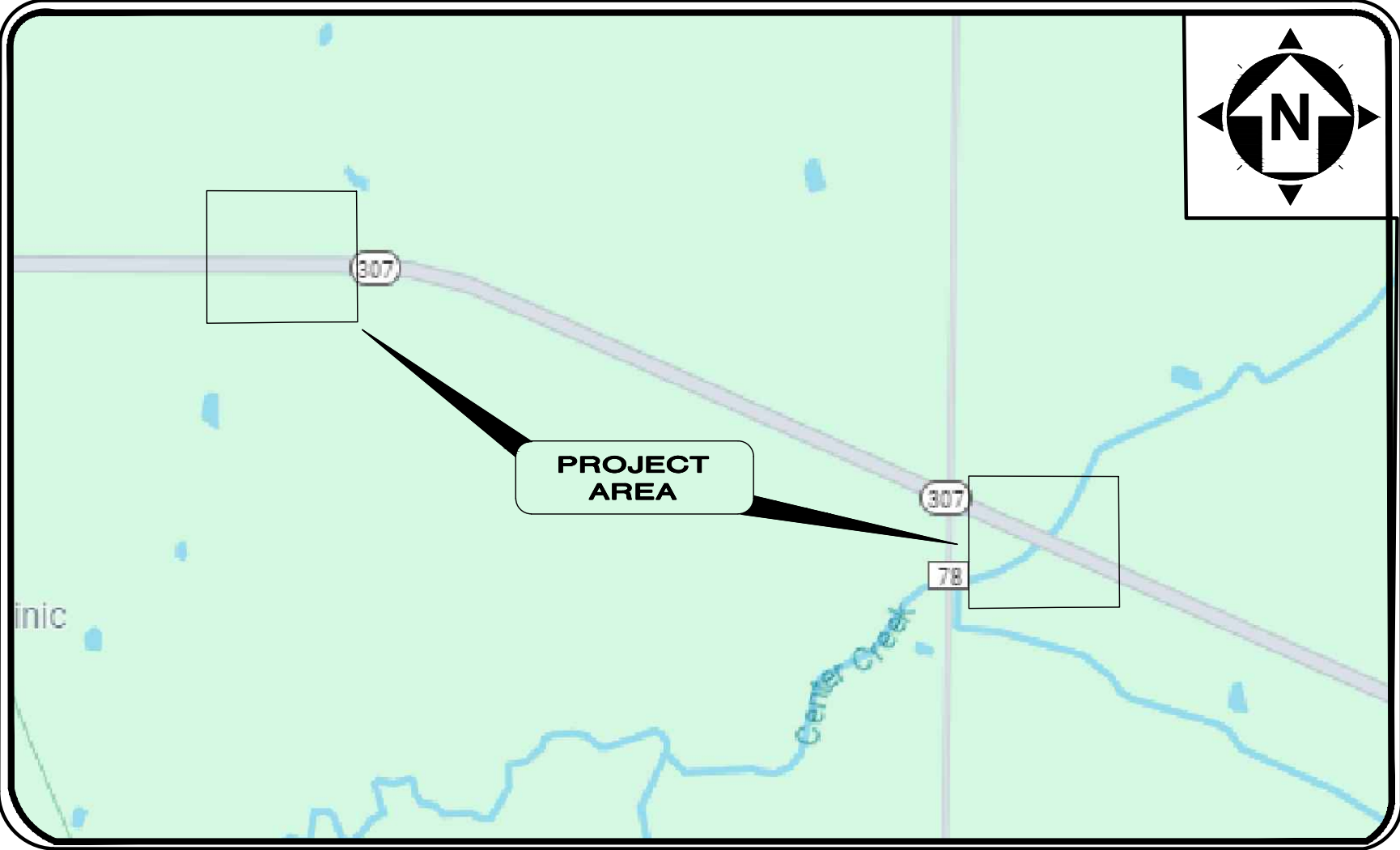
TCI:
2904 STATE ROAD
ASHTABULA, OHIO 44004
(440) 998-2148

1. UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.
2. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.



NOTE:
THE SURVEY SHOWN ON THESE PLANS WAS OBSERVED IN THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR ANY OTHER PURPOSE.

JUNE 2026



LOCATION MAP
NOT TO SCALE

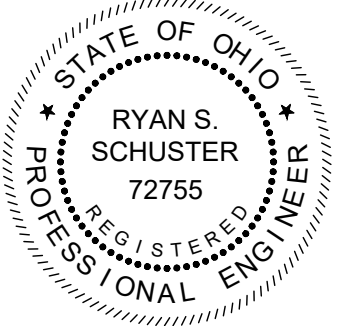
ASHTABULA COUNTY APPROVALS:

COUNTY COMMISSIONER	KATHRYN L. WHITTINGTON	DATE
COUNTY COMMISSIONER	CASEY R. KOZLOWSKI	DATE
COUNTY COMMISSIONER	J.P. DUCRO IV	DATE
DIRECTOR, ACDES	RAYMOND NEVISON	DATE

ENGINEER/ARCHITECT:

VERDANTAS
8150 STERLING COURT
MENTOR, OH 44060

(440) 951-9000 PHONE
(440) 951-7487 FAX



RYAN SCHUSTER, P.E.

P.E. No. E-72755

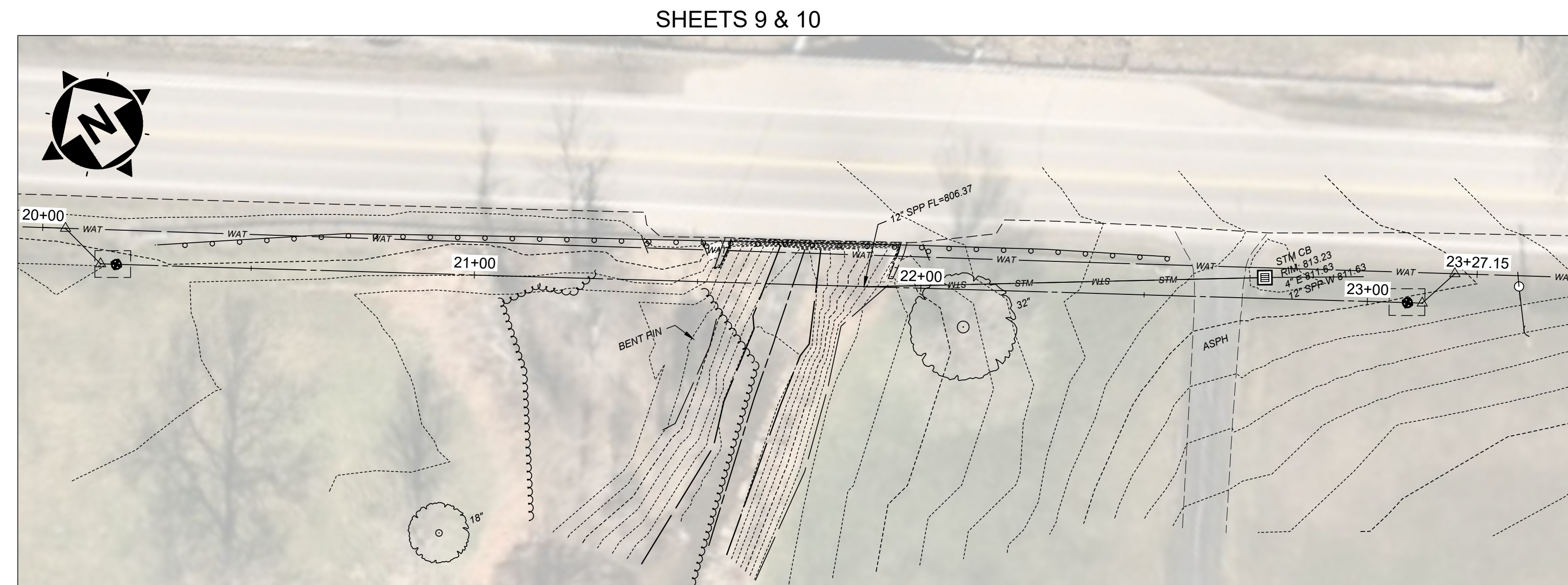
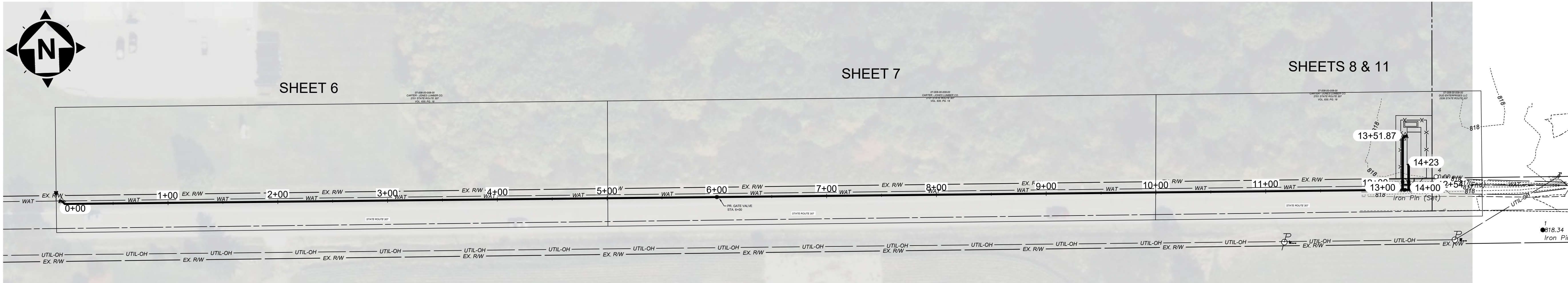
DATE
6/8/26

ENGINEER'S PROJECT No. 232225



ASHTABULA COUNTY
JEFFERSON BOOSTER STATION REPLACEMENT
ASHTABULA COUNTY
GENERAL SERIES - 00 SERIES
COVER SHEET

PROJECT NO.	232225
DISCIPLINE	GENERAL
SHEET NAME	00G-01
SHEET	OF
1	17



SHEET INDEX		
SHEET NUMBER	SHEET TITLE	SHEET NAME
1	COVER SHEET	00G-01
2	SHEET INDEX	00G-02
3	LEGEND & SYMBOLOGY	00G-03
4	GENERAL NOTES - 1	00G-04
5	GENERAL NOTES - 2	00G-05
6	PLAN AND PROFILE 0+00 TO 5+00	10C-01
7	PLAN AND PROFILE 5+00 TO 10+00	10C-02
8	PLAN AND PROFILE 10+00 TO END	10C-03
9	WATERLINE REPLACEMENT SITE PLAN	10C-04
10	WATERLINE PLAN AND PROFILE 20+00 TO END	10C-05
11	BOOSTER STATION SITE PLAN	10D-01
12	BOOSTER STATION - DETAILS 1	10D-02
13	BOOSTER STATION - DETAILS 2	10D-03
14	ELECTRICAL - PLAN, NOTES & 1-LINE	10E-01
15	CONSTRUCTION DETAILS - 1	SD-C-01
16	CONSTRUCTION DETAILS - 2	SD-C-02
17	CONSTRUCTION DETAILS - 3	SD-C-03

STATE OF OHIO
RYAN S. SCHUSTER
72755
REGISTERED
PROFESSIONAL ENGINEER

verdantas

DATE	
REVISION	
NO	

ISSUED FOR: REVIEW SET	3/27/26	AS NOTED	MLB	MLB	RSS
ISSUE DATE:		SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:

ASHTABULA COUNTY
JEFFERSON BOOSTER STATION REPLACEMENT
ASHTABULA COUNTY
GENERAL SERIES - 00 SERIES
SHEET INDEX

JEFFERSON, OHIO

PROJECT NO.	232225
DISCIPLINE	GENERAL
SHEET NAME	00G-02
SHEET	2
OF	17

H:\3023\302325\DWG\SHETS_23225 - SITE PLANS.DWG - SHEET INDEX - 4/2/2025 1:04:06 PM - MAGGIE BORU

GENERAL SYMBOLOGY NOTES:

1. THIS IS A STANDARD SHEET SHOWING COMMONLY USED SYMBOLOGY.
2. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
3. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE NEW IMPROVEMENTS SO AS TO HIGHLIGHT SPECIFIC TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.
4. SYMBOLOGY OR DIAGRAMMATICAL LEGENDS MAY BE SHOWN ON INDIVIDUAL SHEETS FOR SCHEDULES, DIAGRAMS, DETAILS, SCHEMATICS OR EQUIPMENT.

PLAN REVISIONS:

	REVISION DESCRIPTION
	REVISION DESCRIPTION

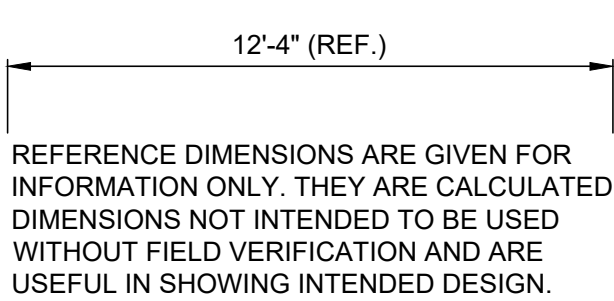
DEMOLITION CODED NOTES:

	DEMOLITION DESCRIPTION
	DEMOLITION DESCRIPTION

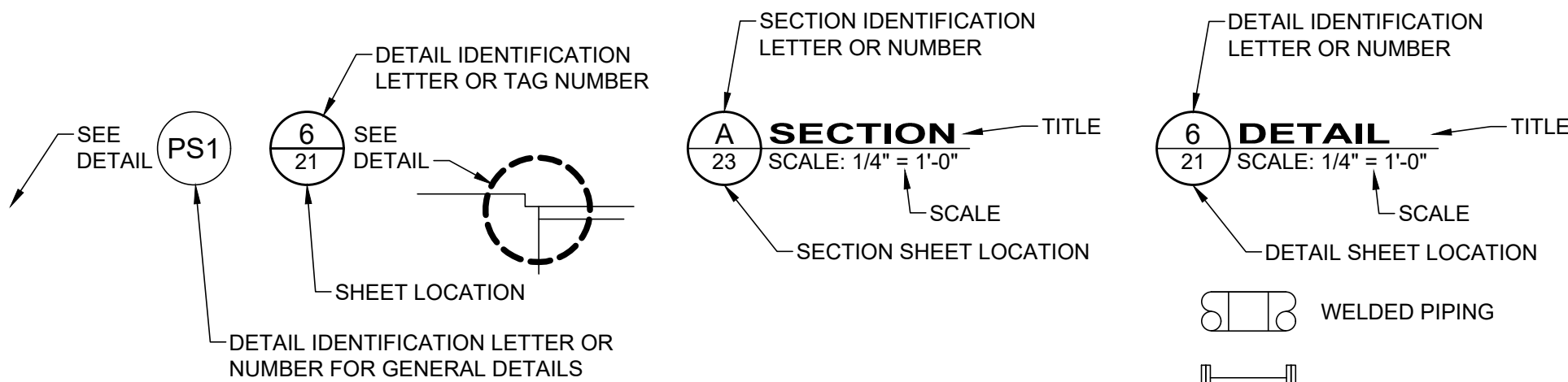
DRAWING CODED NOTE TYPES:

1. CT CONTRACTUAL NOTES ARE DEPICTED WITH A HEXAGON, SQUARE, CIRCLE OR TRIANGLE. ALL OTHER EXISTING WRITTEN CALLOUTS SHOWN ON THE REUSED SCANNED PLANS, SECTIONS & DETAILS ARE FOR EXISTING CONDITIONS AND REFERENCE ONLY, MANY OF THOSE NOTES FROM THE SCANNED DRAWINGS PERTAIN TO PREVIOUS WORK DONE.

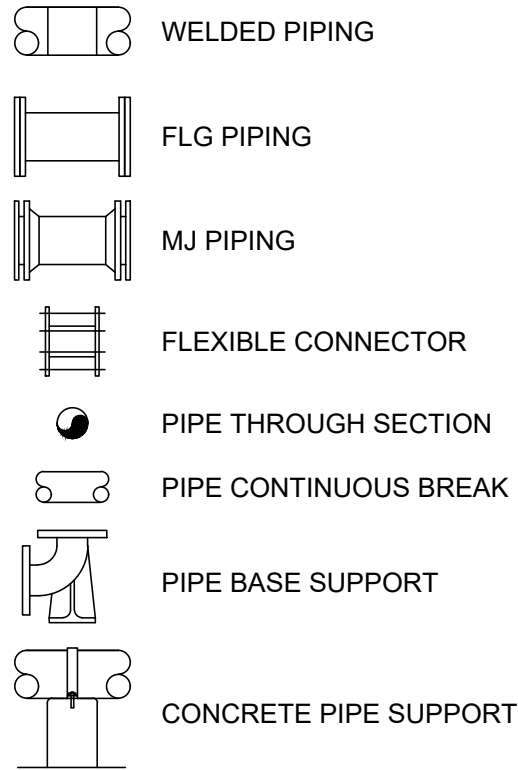
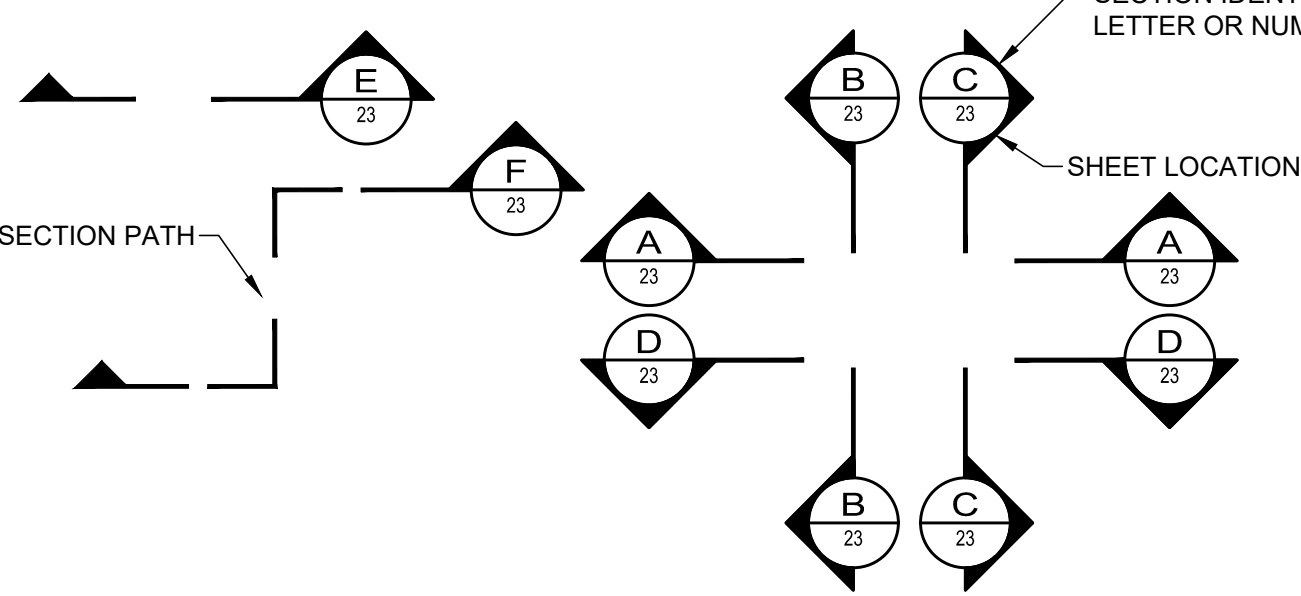
REFERENCE DIMENSION:



DETAIL REFERENCES:



MAJOR SECTION CUT CONVENTIONS:



MISC PIPE SYMBOLOGY

UTILITES - ELECTRIC:

PROPOSED:

	ELEC	ELEC	ELECTRIC LINE
	ELEC-OH	ELEC-OH	ELECTRIC LINE - OH
	ELEC-UG	ELEC-UG	ELECTRIC LINE - UG
	ELEC	ELEC	ELEC SERVICE
	ELEC-OH	ELEC-OH	ELEC SERVICE - OH
	ELEC-UG	ELEC-UG	ELEC SERVICE - UG
	LIGHT-OH	LIGHT-OH	ELEC LIGHTING - OH
	LIGHT-UG	LIGHT-UG	ELEC LIGHTING - UG

EXISTING:

	ELEC	ELEC	ELECTRIC LINE
	ELEC-ABAN	ELEC-ABAN	ELECTRIC LINE - ABAN.
	ELEC-OH	ELEC-OH	ELECTRIC LINE - OH
	ELEC-UG	ELEC-UG	ELECTRIC LINE - UG
	ELEC	ELEC	ELECTRIC SERVICE
	ELEC-OH	ELEC-OH	ELECTRIC SERVICE - OH
	ELEC-UG	ELEC-UG	ELECTRIC SERVICE - UG
	LIGHT-OH	LIGHT-OH	ELECTRIC LIGHTING - OH
	LIGHT-UG	LIGHT-UG	ELECTRIC LIGHTING - UG
			ELECTRIC DUCT

UTILITES - TELEPHONE:

PROPOSED:

	TEL	TEL	TEL LINE
	TEL-OH	TEL-OH	TEL LINE - OH
	TEL-UG	TEL-UG	TEL LINE - UG
	TEL	TEL	TEL SERVICE
	TEL-OH	TEL-OH	TEL SERVICE - OH
	TEL-UG	TEL-UG	TEL SERVICE - UG

EXISTING:

	TEL-ABAN	TEL-ABAN	TEL LINE - ABAN.
	TEL	TEL	TELEPHONE LINE
	TEL-OH	TEL-OH	TEL LINE - OH
	TEL-UG	TEL-UG	TEL LINE - UG
	TEL	TEL	TEL SERVICE
	TEL-OH	TEL-OH	TEL SERVICE - OH
	TEL-UG	TEL-UG	TEL SERVICE - UG
			TELEPHONE DUCT

UTILITES - GAS:

PROPOSED:

	GAS	GAS	GAS LINE
	GS	GS	GAS SERVICE

FUTURE:

	GAS-FUT	GAS-FUT	GAS LINE
	GS	GS	GAS SERVICE

EXISTING:

	GAS-ABAN	GAS-ABAN	GAS LINE - ABAN.
	GAS	GAS	GAS LINE
	GS	GS	GAS SERVICE

UTILITES - SANITARY:

PROPOSED:

	X" SAN	SANITARY LINE
	SAN	SANITARY LINE
	FM	SANITARY FORCE MAIN
	SS	SANITARY SERVICE
	LCH	SANITARY LEACH FIELD
	LCH	SANITARY LEACH

FUTURE:

	SAN-FUT	SANITARY LINE
	SS	SANITARY LINE
	SS	SANITARY SERV

EXISTING:

	SAN	SANITARY LINE
		SANITARY DOUBLE LINE
	SAN-ABAN	SANITARY LINE - ABAN.
	FM	SANITARY FORCE MAIN
	LCH	SANITARY LEACH FIELD
	SS	SANITARY SERVICE

GENERAL ABBREVIATIONS:

AR	AIR RELEASE VALVE	MV	MUD VALVE
AV	AIR & VACUUM VALVE	N	NORTHING
BA	BALL VALVE	OH	OVERHEAD
BFV	BUTTERFLY VALVE	PD	PLUG DRAIN VALVE
BK	BACKPRESSURE VALVE	PF	PRESSURE RELIEF
BM	BENCH MARK	PG	PRESSURE REGULATOR
BP	BACKFLOW PREVENTER	PI	PINCH VALVE
CB	CATCH BASIN	PR	PROPOSED
CL	CENTER LINE	PRV	PRESSURE REDUCING VALVE
CO	CONE VALVE	PT	PRESSURE TEMPERATURE RELIEF
CPP	CORRUGATED PLASTIC PIPE	PV	PLUG VALVE
CV	CHECK VALVE	PVC	POLYVINYL CHLORIDE PIPE
DIP	DUCTILE IRON PIPE	R/W	RIGHT OF WAY
E	EASTING	RJ	RESTRAINED JOINT
EG	EXISTING GRADE	SAN	SANITARY
EL	ELEVATION	SCH	SCHEDULE
EX	EXISTING	SB	SOIL BORING
FG	FINISHED GRADE	SDR	STANDARD DIAMETER RATIO
FH	FIRE HYDRANT	SS	STAINLESS STEEL
FL	FLANGED	STA	STATION
FRP	FIBERGLASS REINFORCED PLASTIC	STL	STEEL PIPE
FTG	FITTING	STM	STORM
GL	GLOBE VALVE	SU	SURGE VALVE
GS	GALVANIZED STEEL	SV	SOLENOID VALVE
GV	GATE VALVE	TYP	TYPICAL
HDPE	HIGH-DENSITY POLYETHYLENE PIPE	UG	UNDERGROUND
KG	KNIFE GATE VALVE	VB	VALVE BOX
KN	KNIFE VALVE	WAT	WATER
MH	MANHOLE	WV	WATER VALVE
MIN	MINIMUM		
MJ	MECHANICAL JOINT		

GENERAL MATERIAL HATCHES:

	EXISTING CONCRETE DRIVEWAY (PLAN)
	EXISTING BUILDING (PLAN)
	PROPOSED RIP RAP AREA (PLAN / SECTION)
	PROPOSED GRAVEL DRIVE AREA (PLAN / SECTION)
	PROPOSED CONCRETE DRIVE AREA (PLAN)
	EXISTING EARTHEN MATERIAL (SECTION / ELEVATION)
	PROPOSED EARTHEN MATERIAL (SECTION / ELEVATION)
	CONCRETE (PLAN / SECTION / ELEVATION)

UTILITES - WATER:

PROPOSED:

	X" WAT	WATER LINE
	WAT	WATER LINE
	WS	WATER SERVICE
	IRR	WATER IRRIGATION LINE

FUTURE:

	WAT-FUT	WATER LINE
	WS	WATER SERV

EXISTING:

	WAT	WATER LINE
		WATER DOUBLE LINE
	WAT-ABAN	WATER LINE - ABAN.
	WS	WATER SERVICE
	IRR	WATER IRRIGATION LINE

UTILITES - STORM:

PROPOSED:

	X" STM	STORM LINE
	STM	STORM LINE
	RD	STORM ROOF DRAIN
	RD	STORM ROOF DRAIN
	UD	STORM UNDERDRAIN
	UD	STORM UNDERDRAIN

FUTURE:

	STM-FUT	STORM LINE
	RD	STORM ROOF DRAIN
	UD	STORM UNDERDRAIN

EXISTING:

	STM-ABAN	STORM LINE - ABAN.
	STM	STORM LINE
		STORM DOUBLE LINE
	RD	STORM ROOF DRAIN
	UD	STORM UNDERDRAIN

VEGETATION:

		BUSH
		TREE, DECIDUOUS
		TREE, EVERGREEN
		TREE, STUMP

UTILITIES - ELECTRIC:

		AIR CONDITIONING UNIT
		ELECTRIC CONTROL BOX
		ELECTRIC JUNCTION BOX
		ELECTRIC PULL BOX
		ELECTRIC RISER BOX
		ELECTRIC VAULT BOX
		ELECTRIC LIGHT - GROUND
		ELECTRIC LIGHT - POST
		ELECTRIC MARKER POST
		ELECTRIC METER
		ELECTRIC MANHOLE - 48"
		ELECTRIC MANHOLE - 48" - ADJUST
		ELECTRIC MANHOLE - LID
		ELECTRIC PAINT MARK
		ELECTRIC PEDESTAL
		ELECTRIC TRANSFORMER

UTILITIES - FIBER OPTIC CABLE:

		FIBER OPTIC MANHOLE - 48"
		FIBER OPTIC MANHOLE - 48" - ADJ
		FIBER OPTIC MANHOLE - LID ONLY
		FIBER OPTIC MARKER POST
		FIBER OPTIC PAINT MARK
		FIBER OPTIC PEDESTAL

UTILITIES - TELEPHONE:

		TELEPHONE PULL BOX
		TELEPHONE RISER BOX
		TELEPHONE MANHOLE - 48"
		TELEPHONE MANHOLE - 48" - ADJ
		TELEPHONE MANHOLE - LID ONLY
		TELEPHONE PAINT MARK
		TELEPHONE PEDESTAL

UTILITIES - SANITARY:

		SANITARY CAP
		SANITARY CLEAN-OUT
		SANITARY MANHOLE - 48"
		SANITARY MANHOLE - 48" - ADJUST
		SANITARY MANHOLE - 60"
		SANITARY MANHOLE - 60" - ADJUST
		SANITARY MANHOLE - 72"
		SANITARY MANHOLE - 72" - ADJUST
		SANITARY MANHOLE - LID ONLY
		SANITARY PAINT MARK
		SANITARY SERVICE (END)
		SANITARY STRUCTURE NO.
		SANITARY VENT

UTILITIES - GAS:

		GAS LIGHT - POST
		GAS METER
		GAS MANHOLE - 48"
		GAS MANHOLE - 48" - ADJUSTED
		GAS MANHOLE - LID ONLY
		GAS MARKER POST
		GAS PAINT MARK
		GAS REGULATOR
		GAS SERVICE (END)
		GAS TEST BOX
		GAS VALVE
		GAS VALVE W/TEXT
		GAS VALVE - BOX
		GAS VENT

UTILITIES - STORM:

		ARROW, FLOOD ROUTING
		ARROW, FLOW 1
		ARROW, FLOW 2
		ARROW, FLOW 3
		ARROW, FLOW 4
		CAP, STORM PIPE
		CATCH BASIN - 2X2
		CATCH BASIN - 2X2 - ADJUSTED
		CATCH BASIN - 2X2 - SIDE INLET
		CATCH BASIN - 2X2 - SOLID LID
		CATCH BASIN - 2X2 - SL - ADJUST
		CATCH BASIN - 3X3
		CATCH BASIN - 3X3 - ADJUSTED
		CATCH BASIN - DOME
		CATCH BASIN - ROUND
		CURB INLET - 2X3
		CURB INLET - 2X3 - ADJUSTED
		CURB INLET - DOUBLE
		CURB INLET - DOUBLE - ADJUST
		STORM CLEAN-OUT
		STORM DRAIN
		STORM MANHOLE - 48"
		STORM MANHOLE - 48" - ADJUST
		STORM MANHOLE - 48" - GRATE
		STORM MANHOLE - 48" - GRT-ADJ
		STORM MANHOLE - 48" INLET
		STORM MANHOLE - 60"
		STORM MANHOLE - 60" - ADJUST
		STORM MANHOLE - 60" - GRATE
		STORM MANHOLE - 60" - GRT-ADJ
		STORM MANHOLE - 72"
		STORM MANHOLE - 72" - ADJUST
		STORM MANHOLE - 72" - GRATE
		STORM MANHOLE - 72" - GRT-ADJ
		STORM MANHOLE - LID ONLY
		STORM ROOF DRAIN - BLDG.
		STORM ROOF DRAIN - CURB
		STORM PAINT MARK
		STORM STRUCTURE NO.

GENERAL:

1.

THE CONTRACTOR SHALL PERFORM ALL OF THE WORK AND FURNISH ALL OF THE LABOR AND MATERIALS NECESSARY FOR THE FINAL COMPLETION OF THIS CONTRACT IN THE MANNER AND UNDER THE CONDITIONS HEREIN SPECIFIED AND PROVIDED AND IN ACCORDANCE WITH THE CONTRACT DRAWINGS.
2.

THE CONTRACTOR SHALL NOTIFY ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE A PRE-CONSTRUCTION MEETING. NO WORK SHALL BEGIN UNTIL A PRE-CONSTRUCTION MEETING HAS BEEN HELD.
3.

A PRE-CONSTRUCTION VIDEO TAPE OF THE PROJECT AREA WILL BE REQUIRED AND SUBMITTED TO THE ENGINEER BEFORE CONSTRUCTION BEGINS.
4.

ACCESS TO ALL DRIVEWAYS WILL BE MAINTAINED AT ALL TIMES EXCEPT THE TIME WHEN UTILITY INSTALLATION AND PAVEMENT REPLACEMENT WILL NOT PERMIT.
5.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING A SITE FOR DISPOSAL OF ALL EXCAVATED MATERIAL THAT IS UNSUITABLE FOR USE AS BACKFILL AND ALL OTHER EXCESS EXCAVATED MATERIALS. THE CONTRACTOR SHALL PROVIDE THE COUNTY WITH THE LOCATION OF THE DISPOSAL SITE AND WRITTEN PERMISSION FOR USE OF THE SITE FROM THE PROPERTY OWNER.
6.

ALL OVER-THE-ROAD VEHICLES USED ON THE PROJECT BY ALL CONTRACTORS AND SUBCONTRACTORS WILL BE CLEARLY MARKED SHOWING ITS COMPANY SYMBOL.
7.

BEFORE THE COUNTY WILL APPROVE AND ACCEPT THE WORK AND RELEASE THE GUARANTY RETAINER, THE CONTRACTOR WILL FURNISH A WRITTEN REPORT INDICATING THE RESOLUTION OF ANY AND ALL PROPERTY DAMAGE CLAIMS FILED WITH THE CONTRACTOR BY ANY PARTY DURING THE CONSTRUCTION PERIOD. THE INFORMATION TO BE SUPPLIED SHALL INCLUDE, BUT NOT BE LIMITED TO, NAME OF CLAIMANT, DATE FILED WITH CONTRACTOR, NAME OF INSURANCE COMPANY AND/OR ADJUSTOR HANDLING CLAIM, HOW CLAIM WAS RESOLVED AND IF CLAIM WAS NOT RESOLVED FOR THE THE FULL AMOUNT, A STATEMENT INDICATING THE REASON FOR SUCH ACTION.
8.

MATERIALS FOR "AS-DIRECTED" ITEMS SHALL NOT BE ORDERED OR DELIVERED TO THE PROJECT SITE OR WORK PERFORMED UNTIL AUTHORIZED BY THE ENGINEER.
9.

ALL SHOP DRAWINGS WILL BE SUBMITTED TO THE ENGINEER FOR CHECKING.
10.

THE CONTRACTOR SHALL PERFORM WORK AS TO NOT DISTURB, DAMAGE OR DESTROY ANY MAILBOX, PAPERBOX, TELEPHONE OR POWER POLES, SIGNS, LANDSCAPING ITEMS, ETC.. ANY ITEM DAMAGED OR DESTROYED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY ITEM DISTURBED OR IN CONFLICT WITH THE WORK TO BE PERFORMED SHALL BE REMOVED AND RESET AT THE CONTRACTOR'S EXPENSE. PRIOR ENGINEER APPROVAL IS REQUIRED BEFORE ANY OF THE ABOVE ITEMS ARE PERFORMED.
11.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO APPLY, WHEN ORDERED BY THE OWNER, WATER OR CALCIUM CHLORIDE FOR THE ALLEVIATION OR PREVENTION OF DUST NUISANCE ORIGINATING FROM HIS CONSTRUCTION ACTIVITIES. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE SHALL BE STORED ON THE JOB SITE AT ALL TIMES TO BE USED FOR DUST CONTROL.
12.

CONTRACTOR SHALL RECEIVE WRITTEN PERMISSION TO WORK OUTSIDE OF THE COUNTY'S EASEMENT AND RIGHT-OF-WAY. CONTRACTOR SHALL PROVIDE A COPY OF PERMISSION TO THE COUNTY.
13.

ALL SOIL AREAS DISTURBED SHALL BE TOPSOILED (4" THICK), SEEDED AND MULCHED.
14.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT.
15.

THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE INSTALLING ANY PROPOSED CONDUIT. ANY ADJUSTMENTS NEEDED SHALL BE APPROVED BY THE ENGINEER.

TEMPORARY PAVEMENT AND MAINTENANCE OF TRAFFIC:

1.

THE CONTRACTOR SHALL REMOVE ALL PAVEMENTS AND ROAD SURFACES WITHIN THE LINES OF EXCAVATION IN ACCORDANCE WITH THE PLANS AND DETAILS. AFTER THE PAVEMENT HAS BEEN REMOVED AND THE PIPE HAS BEEN LAID, ALL APPURTENANT WORK CONSTRUCTED AND BACKFILL COMPLETED, THE CONTRACTOR SHALL FURNISH, PLACE AND MAINTAIN WHEREVER THE PLACEMENT OF ROAD AND SURFACE HAS BEEN REMOVED OR DAMAGED, A TEMPORARY PAVEMENT IN THE PAVED PORTION OF STREETS AND DRIVEWAYS SO AS TO PROVIDE A SAFE AND PASSABLE ROADWAY UNTIL SUCH TIME AS THE FINAL PAVEMENT IS COMPLETED. ACCESS TO ALL DRIVES SHALL BE MAINTAINED AT ALL TIMES EXCEPT BRIEFLY DURING WORKING HOURS WHEN CONSTRUCTION ACTIVITIES PROHIBIT.

PROTECTION AGAINST VANDALISM:

1.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SUFFICIENT SITE SECURITY MEASURES AND / OR PERSONNEL TO PROTECT ALL NEW CONCRETE WORK FROM VANDALISM UNTIL THE CONCRETE IS SUFFICIENTLY CURED AT NO ADDITIONAL COST.

RESTORATION:

1.

THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM HIS OPERATION AND RESTORE ALL SURFACES, STRUCTURES, DITCHES AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER. ANY DITCHES DISTURBED DURING CONSTRUCTION SHALL BE REGRADED BY THE END OF THE SAME WORKDAY.
2.

ALL EXISTING STORM AND SANITARY SEWER FACILITIES, INCLUDING TILE, DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED, REPLACED OR RECONNECTED TO THE EXISTING OR PROPOSED SYSTEM AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER.

SANITARY, STORM, AND WATER SERVICE CONNECTIONS:

1.

THE FOLLOWING NOTES APPLY TO SANITARY, STORM, AND WATER CONNECTIONS

1.

LOCATIONS OF EXISTING SERVICE CONNECTIONS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING CONNECTIONS AT NO ADDITIONAL COST TO THE COUNTY. THE CONTRACTOR SHALL RECORD ACTUAL LOCATION INFORMATION ON HIS RECORD DRAWINGS AS CONSTRUCTION OCCURS.

2.

THERE SHALL BE NO ADDITIONAL PAYMENT MADE FOR SAW CUTTING, EXCAVATION OR BACKFILL, INCLUDING MATERIALS AND LABOR FOR, PIPING, CAPS, BULKHEADS AND APPURTENANCES PLACED FOR LATERALS WHICH ARE DETERMINED TO BE INACTIVE AND THUS ARE TO BE ABANDONED.

3.

NO INACTIVE LATERALS SHALL BE RECONNECTED TO THE SEWER.

2.

THE CONTRACTOR SHALL BE REQUIRED TO BYPASS AND MAINTAIN THE FLOW FROM ALL HOUSE UTILITY CONNECTIONS DURING CONSTRUCTION.

3.

THE CONTRACTOR SHALL SUPPLY ALL PIPE AND ADAPTERS TO CONNECT TO EXISTING PIPING. THE ADAPTERS MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

4.

EXISTING SEWER AND WATER SERVICE CONNECTIONS SHALL BE PROTECTED AND MAINTAINED IN SERVICE. ANY EXISTING WATERLINE, SANITARY SEWER, AND GAS LINE, IN OR OUTSIDE OF THE CONSTRUCTION LIMITS, DAMAGED DURING CONSTRUCTION OF THE PROPOSED PROJECT, WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ROADWAY EXCAVATION AND PAVEMENT:

1.

ALL PAVEMENT REMOVAL AND REPLACEMENT, NEW PAVEMENT AND ASSOCIATED ROADWAY WORK WILL BE IN ACCORDANCE WITH THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, STANDARD CONSTRUCTION DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS, CURRENT ISSUE, WITH THE MODIFICATIONS AS SET FORTH IN THESE SPECIFICATIONS.

METER BOXES, VALVES BOXES, STRUCTURES ADJUSTED TO GRADE:

1.

ALL EXISTING MANHOLES, CATCH BASINS, MONUMENT BOXES, WATER METER BOXES, WATER VALVE BOXES, GAS VALVE BOXES OR OTHER EXISTING UTILITY APPURTENANCES WITHIN THE WORK LIMITS SHALL BE ADJUSTED TO THE PROPOSED GRADE AND FLUSH WITH THE NEW SURFACE. ANY METER OR VALVE BOX ENCOUNTERED WITHIN THE WORK SITE SHALL BE EXPOSED. CONTRACTOR TO SUPPLY 1" RISER FOR ALL VALVE BOXES ADJUSTED TO GRADE.

EXCESS EXCAVATION:

1.

ALL EXCESS EXCAVATION SHALL BE DISPOSED OF IN A LOCATION TO BE SELECTED BY THE CONTRACTOR. THE CONTRACTOR MUST OBTAIN A PERMIT FROM THE COUNTY IF THE MATERIAL IS TO BE DISPOSED OF WITHIN THE COUNTY LIMITS.
2.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL CONSTRUCTION MATERIALS/DEBRIS.

PRESERVATION OF PROPERTY CORNERS AND SURVEY MARKERS:

1.

THE CONTRACTOR WILL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS, AND STAKES AND IN CASE OF DISTURBANCE, HE SHALL ENGAGE A REGISTERED SURVEYOR TO REPLACE THEM AT HIS EXPENSE AND SHALL BE RESPONSIBLE FOR ANY MISTAKES THAT MAY BE CAUSED BY THEIR LOSS OR DISTURBANCE.

SUBSURFACE CONDITIONS:

1.

IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN INVESTIGATION OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING HIS BID.

STATIONING AND LOCATIONS:

1.

ALL LOCATIONS AND ITEMS CALLED OUT BY STATION ARE SUBJECT TO ADJUSTMENT IN THE FIELD AS APPROVED BY THE ENGINEER.

NOISE CONTROL:

1.

CONSTRUCTION ACTIVITIES WILL BE LIMITED TO WEEKDAY DAYTIME HOURS UNLESS APPROVED 48 HOURS IN ADVANCE BY THE COUNTY.

LANDSCAPING BEDS, PLANTINGS AND TREE PROTECTION/ REMOVAL:

1.

ANY LANDSCAPING BEDS, PLANTINGS AND TREES DISTURBED BY CONSTRUCTION ACTIVITIES BEYOND THE RIGHT-OF-WAY SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR REPLACED AS DIRECTED BY THE COUNTY.
2.

ALL TREES WITHIN THE RIGHT-OF-WAY THAT ARE IN CONFLICT WITH CONSTRUCTION ARE TO BE REMOVED BY THE CONTRACTOR AND ARE TO BE INCLUDED IN THE COST FOR CLEARING AND GRUBBING.

MAILBOXES, FENCES, NEWSPAPER BOXES OR STREET SIGNS AND SUPPORTS:

1.

WHEN MAILBOXES, FENCES, NEWSPAPER BOXES OR STREET SIGNS AND SUPPORTS INTERFERE WITH CONSTRUCTION, THE CONTRACTOR SHALL REMOVE AND ERECT THEM IN A TEMPORARY LOCATION DURING THE CONSTRUCTION (EXCEPT FENCES). AFTER COMPLETION OF THE CONSTRUCTION AND BEFORE FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL ERECT THE MAILBOXES, FENCES, NEWSPAPER BOXES OR STREET SIGNS AND SUPPORTS ALL IN A PERMANENT LOCATION IN ACCORDANCE WITH THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE WORK SHALL BE INCLUDED IN THE UNIT PRICES BID FOR OTHER ITEMS.

SALVAGED ITEMS:

1.

THE COUNTY SHALL RECEIVE ALL SALVAGED ITEMS SUCH AS MANHOLE CASTINGS, FIRE HYDRANTS, VALVE CAPS, ETC. THE COUNTY HAS THE RIGHT OF FIRST REFUSAL FOR ALL STEEL REMOVED FROM THE PROJECT.

EXISTING UTILITIES:

1.

EACH CONTRACTOR SHALL VISIT THE SITE PERSONALLY TO ASCERTAIN THE NATURE OF THE WORK AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE SITE PRIOR TO BID SUBMISSION.
2.

THE DATA SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE EXISTENCE OF FACILITIES ABOVE OR BELOW GROUND, WHICH MAY NOT BE SHOWN, MAY NOT BE A BASIS FOR A CLAIM FOR EXTRA WORK.
3.

THE LOCATIONS OF THE UNDERGROUND UTILITIES ARE PLOTTED ACCORDING TO THE INFORMATION FURNISHED BY THE UTILITIES CONCERNED AND THE COUNTY DOES NOT GUARANTEE THE ACCURACY THEREOF. CONTRACTOR ALSO TO COORDINATE HIS WORK WITH THE THE COUNTY. THE ILLUMINATING CO., DOMINION EAST OHIO GAS COMPANY AND CHARTER COMMUNICATIONS FOR GAS LINE AND/OR POLE RELOCATION.
4.

WHERE EXISTING POWER OR TELEPHONE POLES ARE IN CLOSE PROXIMITY TO WORK, THE CONTRACTOR SHALL COORDINATE HIS WORK EFFORTS WITH THOSE OF THE UTILITY COMPANIES SUCH THAT THEIR EXISTING FACILITIES CAN BE MAINTAINED AND PROTECTED DURING THE TIME WORK IS GOING ON ADJACENT TO THE POLE. THE COST FOR ANY REQUIRED PROTECTION OR RELOCATION OF EXISTING POWER OR TELEPHONE POLES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THAT OF THE COUNTY.
5.

DELAYS TO THE CONTRACTOR AS A RESULT OF TIMING OF POLE RELOCATION OR PROTECTION SHALL NOT BE CONSIDERED COMPENSABLE DELAYS, AS IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK IN CONFORMANCE TO THE UTILITY COMPANY'S SCHEDULE.
6.

BEFORE ANY WORK IS STARTED THAT WILL INTERFERE WITH THE EXISTING UTILITIES, THE CONTRACTOR SHALL CALL THE "OHIO UTILITIES PROTECTION SERVICE" AT 1-800-362-2764, FORTY- EIGHT (48) HOURS IN ADVANCE OF THE WORK. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, AT NO ADDITIONAL EXPENSE TO THE COUNTY, TO AVOID DAMAGE TO EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES DURING THE ENTIRE PROJECT. IN THE EVENT OF DAMAGE TO EXISTING PUBLIC AND/OR PRIVATE UTILITIES, THE AGENCY CONCERNED SHALL BE NOTIFIED IMMEDIATELY AND ALL REPAIR WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE AGENCY AT NO ADDITIONAL EXPENSE TO THE COUNTY, INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS. THE UTILITY OWNERSHIPS ARE LISTED BELOW.
7.

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.
8.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.
9.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

ENDANGERED SPECIES

1.

THIS PROJECT IS WITHIN THE RANGE OF SEVERAL STATE AND FEDERALLY THREATENED AND ENDANGERED BAT SPECIES (INDIANA BAT, NORTHERN LONG-EARED BAT, LITTLE BROWN BAT, TRICOLORED BAT) AND MAY IMPACT SUMMER ROOSTING HABITAT FOR THESE SPECIES. THESE SPECIES DEPEND UPON TREES WITH PEELING BARK, CAVITIES, CREVICES, AND DEAD AND DYING TREES. PER U.S. FISH AND WILDLIFE SERVICE RECOMMENDATION, THE REMOVAL OF TREES GREATER THAN OR EQUAL TO 3-INCHES DIAMETER AT BREAST HEIGHT SHOULD ONLY OCCUR BETWEEN OCTOBER 1ST AND MARCH 31ST. IF THIS TIME FRAME CANNOT BE FOLLOWED, THE U.S. FISH AND WILDLIFE SERVICE (614-416-8993) AND OHIO DEPARTMENT OF NATURAL RESOURCES (CONTACT EILEEN WYZA, EILEEN.WYZA@DNR.OHIO.GOV) MUST BE CONTACTED PRIOR TO CUTTING FOR GUIDANCE ON NECESSARY STEPS TO DOCUMENT THE ABSENCE OR PRESENCE OF THESE SPECIES.

ARCHAEOLOGICAL AND HISTORICAL RESOURCES

1.

CONTRACTORS AND SUBCONTRACTORS ARE REQUIRED UNDER OHIO REVISED CODE SECTION 149.53 TO NOTIFY THE OHIO HISTORICAL SOCIETY AND THE OHIO HISTORIC SITE PRESERVATION BOARD OF ARCHAEOLOGICAL DISCOVERIES LOCATED IN THE PROJECT AREA AND TO COOPERATE WITH THOSE ENTITIES IN ARCHAEOLOGICAL AND HISTORIC SURVEYS AND SALVAGE EFFORTS IF SUCH DISCOVERIES ARE UNCOVERED WITHIN THE PROJECT AREA. CONTACT: STATE HISTORIC PRESERVATION OFFICE: 614-298-2000

SPILL PREVENTION:

1.

CONTRACTORS AND SUBCONTRACTORS SHOULD IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES FOR THE PREVENTION OF DISCHARGE OF HAZARDOUS MATERIALS TO SURFACE AND GROUND WATERS AND THE ENVIRONMENT. ALL SPILLS MUST BE REPORTED TO THE OHIO SPILL LINE (1-800-282-9378 OR1-614-224-0946) IN ACCORDANCE WITH OAC 3750.06.

LIMITS OF WORK:

1.

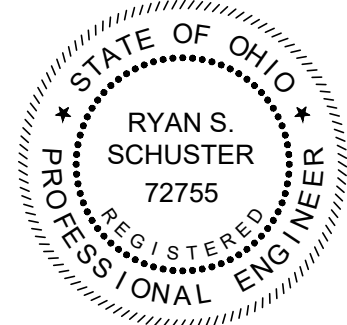
THE CONTRACTORS CONSTRUCTION OPERATIONS ARE CONFINED TO THE AREA WITHIN THE ROAD RIGHT-OF-WAY OR EASEMENT AREA. THE CONTRACTOR SHALL USE THE APPROPRIATE CONSTRUCTION METHODS TO PREVENT DISTURBING ANY AREA OUTSIDE THE ROAD RIGHT-OF-WAY OR EASEMENT AREA.

MATERIAL STORAGE:

1.

ALL EXCAVATED MATERIAL AND ALL MATERIAL USED IN CONSTRUCTION OF THE WORK SHALL BE STORED IN A MANNER THAT WILL NOT ENDANGER THE WORK AND THAT WILL LEAVE DRIVEWAYS, HYDRANTS UNDER PRESSURE, VALVE PIT COVERS, VALVE BOXES, CURB STOP BOXES OR OTHER UTILITY CONTROLS UNOBSTRUCTED AND ACCESSIBLE WHILE THE WORK IS BEING COMPLETED. GUTTERS SHALL BE KEPT CLEAR AND MAINTAINED AT ALL TIMES OR OTHER SATISFACTORY PROVISIONS SHALL BE MADE FOR STREET DRAINAGE, NATURAL DRAINAGE COURSES SHALL NOT BE OBSTRUCTED DURING THE PROCESS OF WORK. ALL MATERIALS SHALL BE KEPT TRIMMED UP AND MAINTAINED IN A NEAT MANNER.
2.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL TREES, STUMPS, BROKEN PAVEMENT AND ALL CONSTRUCTION DEBRIS OF WHATEVER NATURE OUTSIDE THE WORK LIMITS OF THE PROJECT. NO EXTRA PAYMENT WILL BE MADE BY THE OWNER FOR THE REMOVAL AND DISPOSAL OF DEBRIS.



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ASHTABULA COUNTY		JEFFERSON, OHIO	
JEFFERSON BOOSTER STATION REPLACEMENT		ASHTABULA COUNTY	
GENERAL SERIES - 00 SERIES		GENERAL NOTES (1 OF 2)	

PROJECT NO.	
232225	
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ENVIRONMENTAL PROTECTION - PROHIBITED CONSTRUCTION ACTIVITIES:

1.

LOCATING STOCKPILE STORAGE AREAS IN ENVIRONMENTALLY SENSITIVE AREAS.
2.

INDISCRIMINATE, ARBITRARY OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, WETLANDS, SURFACE WATERS OR OUTSIDE THE EASEMENT LIMITS.
3.

PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, STREAM CORRIDORS, WETLANDS OR STORM SEWERS; ALL SUCH WATER WILL BE PROPERLY FILTERED OR SETTLED TO REMOVE SILT PRIOR TO RELEASE.
4.

DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE AND OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, WETLANDS, SURFACE WATERS, IMPOUNDMENTS OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.
5.

PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF ANY STREAM.
6.

DAMAGING ANY VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.
7.

DISPOSAL OF TREES, BRUSH, AND OTHER DEBRIS IN ANY STREAM CORRIDORS, WETLANDS, SURFACE WATERS OR AT UNSPECIFIED LOCATIONS.
8.

OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.
9.

STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED ON THE PLANS BY THE ENGINEER FOR SUCH PURPOSES.
10.

RUNNING WELL POINT OR PUMP DISCHARGE LINES THROUGH PRIVATE PROPERTY OR PUBLIC PROPERTY AND RIGHTS-OF-WAY WITHOUT THE WRITTEN PERMISSION OF THE OWNER AND THE CONSENT OF THE ENGINEER.
11.

OPERATIONS ENTAILING THE USE OF VIBRATORY HAMMERS OR COMPACTORS OUTSIDE THE HOURS OF 8:00 A.M. AND 4:30 P.M. OR OUTSIDE THE HOURS ALLOWED FOR CONSTRUCTION BY LOCAL ORDINANCES OR REGULATIONS.
12.

CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE OR BOULEVARD WITHOUT THE PRIOR CONSENT OF MUNICIPAL OFFICIALS, STATE OF OHIO, THE ENGINEER, AND CLOSING CLEAR ACCESS:

•

BY FIRE PROTECTION EQUIPMENT AND EMERGENCY VEHICLES.

•

BY THE PUBLIC TO ANY COMMERCIAL OR PROFESSIONAL PLACE OF BUSINESS, QUASI-PUBLIC OR PUBLIC ESTABLISHMENT, OR PLACE OF RESIDENCE.

•

BY VEHICLES TO DRIVEWAYS WITHOUT THE PROVISION OF ALTERNATIVE MEANS OF BUILDING INGRESS AND EGRESS.

MAINTENANCE OF TRAFFIC:

1.

PRIOR TO THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT TO THE COUNTY A PROPOSED PROJECT CONSTRUCTION SCHEDULE AND A DETAILED MAINTENANCE OF TRAFFIC PLAN, BOTH THE SCHEDULE AND MAINTENANCE OF TRAFFIC PLAN SHALL BE APPROVED BY THE COUNTY AND ODOT PRIOR TO THE START OF CONSTRUCTION.
2.

THE CONTRACTOR SHALL SUBMIT TO THE COUNTY AND ODOT A PROPOSED DETOUR PLAN FOR THE INSTALLATION OF THE BOOSTER STATION. THE DETOUR PLAN SHALL BE APPROVED BY THE COUNTY AND ODOT PRIOR TO THE START.
3.

MAINTAINING TRAFFIC SHALL BE IN ACCORDANCE WITH ODOT CONSTRUCTION & MATERIALS SPECIFICATIONS (CMS) ITEM 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
4.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SAFE AND SATISFACTORY LOCAL ACCESS, VEHICULAR AND PEDESTRIAN, TO ALL ABUTTING PROPERTIES WITHIN THE PROJECT. THE CONTRACTOR SHALL FURNISH, MAINTAIN, AND SUBSEQUENTLY REMOVE ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, BARRIERS, TEMPORARY PAVEMENT, LIGHTING, FLAGMEN, CONSTRUCTION SIGNING AND OTHER TRAFFIC CONTROLS SO AS TO AVOID DAMAGE AND/OR INJURY TO AND ENSURE THE SAFETY OF VEHICLES AND PERSONS USING THE ROADWAY DURING CONSTRUCTION BOTH WITHIN AND OUTSIDE OF THE PROJECT LIMITS.
5.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND ON THE ODOT STANDARD MAINTENANCE OF TRAFFIC DRAWINGS.

WATER MAIN SPECIFICATIONS & NOTES:

1.

WATER MAINS (4" THROUGH 24") SHALL BE PVC AWWA C909 UNLESS OTHERWISE STATED ON THE DRAWINGS.
2.

ALL FITTINGS, BENDS, TEES, PLUGS, ETC. SHALL BE TIED TO THE WATER MAIN WITH EITHER M.J. TYPE CONNECTIONS, TIE RODS OR MEGA-LUGS. TIE RODS SHALL BE 3/4" DIAMETER STAINLESS STEEL. FOR 8" DIAMETER PIPE USE FOUR RODS.
3.

TAPPING SLEEVES SHALL HAVE A STAINLESS STEEL BODY WITH A DUCTILE IRON FLANGED OUTLET WHICH COMPLIES WITH ANSI B16.1, CLASS 125 AND WITH MSS SP-60. THE GASKET SHALL COMPLETELY SURROUND THE INSIDE OF THE STAINLESS STEEL BODY. THE SLEEVE SHALL COME EQUIPPED WITH A ¾" NPT BRASS TEST PLUG. MAXIMUM WORKING PRESSURE FOR 4" - 12" SIZES (250 psig) AND FOR 14" - 24" SIZES (200 psig).
4.

WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA C600. ALL TEST RESULTS MUST BE APPROVED BY THE COUNTY BEFORE INSTALLATION OF WATER SERVICES. COST SHALL BE SUBSIDIARY TO THE INSTALLATION OF WATER MAIN. TEST PRESSURE SHALL BE 250 PSI.
5.

WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651. COST SHALL BE SUBSIDIARY TO THE INSTALLATION OF WATER MAIN.
6.

THE PROPOSED WATER SYSTEM SHALL MAINTAIN A MINIMUM STATIC PRESSURE OF 35psi DELIVERED TO THE CURB STOP DURING NORMAL OPERATING CONDITIONS.
7.

BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS.
8.

THE CONTRACTOR SHALL MAINTAIN A MINIMUM 10 FOOT HORIZONTAL SEPARATION AND 18 INCH VERTICAL SEPARATION BETWEEN THE PROPOSED WATER MAIN AND EXISTING STORM SEWERS AS MEASURED FROM OUTSIDE EDGE TO OUTSIDE EDGE UNLESS NOTED ON THE PLAN AND PROFILE SHEETS.
9.

THE CONTRACTOR SHALL NOT OPERATE OR TURN ANY EXISTING WATER VALVE, UNLESS OTHERWISE SPECIFIED. IF VALVES NEED TO BE OPENED OR CLOSED HE SHALL NOTIFY THE COUNTY.
10.

ALL ROUGH GRADING TO WITHIN SIX (6) INCHES OF FINISH GRADE SHALL BE COMPLETED OVER THE PROPOSED WATER MAIN PRIOR TO IT'S INSTALLATION.
11.

THE LOCATION OF EXISTING WATER UTILITIES AS SHOWN ON THESE PLANS WERE DETERMINED FROM AVAILABLE DATA AT THE TIME OF FIELD SURVEYING IN ACCORDANCE WITH SECTION 153.63 OF THE OHIO REVISED CODE.
12.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS, PAYING ALL FEES, AND FOLLOWING ALL REQUIREMENTS ASSOCIATED WITH THE PERMITS. THE COUNTY ASSUMES NO LIABILITY FOR NOT FOLLOWING THE ABOVE.
13.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OHIO UTILITY PROTECTION SERVICE (OUPS) AS REQUIRED BY LAW.
14.

NO WATERLINE TIE-INS SHALL BE DONE ON FRIDAYS OR THE DAY BEFORE A COUNTY HOLIDAY.
15.

DEFLECT WATER MAIN AS REQUIRED TO MAINTAIN ALIGNMENT AS SHOWN ON PLANS. MAXIMUM DEFLECTION IS 3 DEGREES PER JOINT.
16.

TEMPORARY BLOW-OFF AND FLUSHING ASSEMBLY:

A.

PIPE SHALL BE TYPE K COPPER WITH COMPRESSION FITTINGS.

B.

CORPORATION STOPS SHALL BE GROUND KEY DESIGN, CAST FROM A BRASS ALLOY AND CONFORM TO AWWA C800. INLET END SHALL HAVE AWWA TAPER THREADS. OUTLET END SHALL HAVE COPPER COMPRESSION QUARTER BEND CONNECTION. ALL TAPS SHALL BE MADE ON TOP OF THE WATER MAIN. CORPORATION STOPS AND QUARTER BENDS SHALL BE BLOCKED.

C.

CURB VALVES (STOPS) SHALL BE ONE PIECE DESIGN, CAST FROM A BRASS ALLOY, CONFORM TO AWWA C800, HAVE A MAXIMUM WORKING PRESSURE OF 175 PSIG AND HAVE A QUARTER TURN CHECK. BOTH ENDS SHALL HAVE COPPER COMPRESSION FITTINGS. SADDLES TO BE PROVIDED ON C909 PIPING.

D.

LOCATIONS SHALL BE AS SHOWN ON THE DRAWINGS, AT A MINIMUM, CONTRACTOR SHALL INSTALL ADDITIONAL ASSEMBLIES AS NEEDED TO EXHAUST AIR AND TO COMPLY WITH REGULATIONS REGARDING PRESSURE TESTING, BACTERIA SAMPLING AND FLUSHING.

E.

AT COMPLETION OF TESTING, CLOSE CORPORATION STOP, REMOVE COPPER PIPING AND INSERT PLUG ON CORPORATION STOP.

F.

NO SEPARATE PAYMENT SHALL BE MADE FOR TEMPORARY BLOW-OFFS AND FLUSHING ASSEMBLIES.

EXCAVATION, BACKFILL, AND COMPACTION:

1.

ALL UTILITY LINES (i.e. STORM SEWERS, STORM LATERALS, SANITARY LATERALS, WATER MAINS, WATER SERVICE CONNECTIONS, GAS MAINS, GAS SERVICE CONNECTIONS, UNDERGROUND OBT CONDUITS, CABLE T.V. LINES) CROSSING THE PROPOSED IMPROVEMENTS, WHETHER SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE PROTECTED AND SUPPORTED WITH HARDWOOD PLANKS OR REMOVED AND REPLACED, RECONNECTED AND SUPPORTED ACROSS THE ENTIRE WIDTH OF THE TRENCH. NO ADDITIONAL COMPENSATION WILL BE PAID FOR THE ABOVE WORK. IF ANY OF THESE LINES ARE DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPLACED.
2.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER FORTY- EIGHT (48) HOURS IN ADVANCE OF BEGINNING WORK WHICH REQUIRES COMPACTION TESTING AND/OR PRE-POUR INSPECTION PRIOR TO PLACEMENT OF PAVEMENT. WORK WILL NOT BEGIN UNTIL TESTING AND/OR INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE ENGINEER.

WATER BOOSTER STATION:

1.

THE CONTRACTOR SHALL COORDINATE WATER BOOSTER STATION ELECTRICAL SERVICE WITH THE UTILITY COMPANY.
2.

THE CONTRACTOR SHALL OBTAIN THE FOLLOWING BOOSTER STATION DETAILS FROM THE BOOSTER STATION MANUFACTURER AND INSTALL IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS:

A.

BASE FRAME ANCHOR DETAIL.

B.

SKID PLAN.

C.

ANCHOR/FOUNDATION DETAIL.

D.

WALL DETAIL.

E.

GROUT DETAIL.

F.

GRADE BEAM DETAIL.

STATE OF OHIO

RYAN S. SCHUSTER

72755

REGISTERED PROFESSIONAL ENGINEER

verdantas

DATE					
REVISION					
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ISSUED FOR:	REVIEW SET
ISSUE DATE:	3/27/26
SCALE:	AS NOTED
DESIGNED BY:	MLB
DRAWN BY:	JBB
CHECKED BY:	RSS

ASHTABULA COUNTY

JEFFERSON BOOSTER STATION REPLACEMENT

JEFFERSON, OHIO

ASHTABULA COUNTY

GENERAL SERIES - 00 SERIES

GENERAL NOTES (2 OF 2)

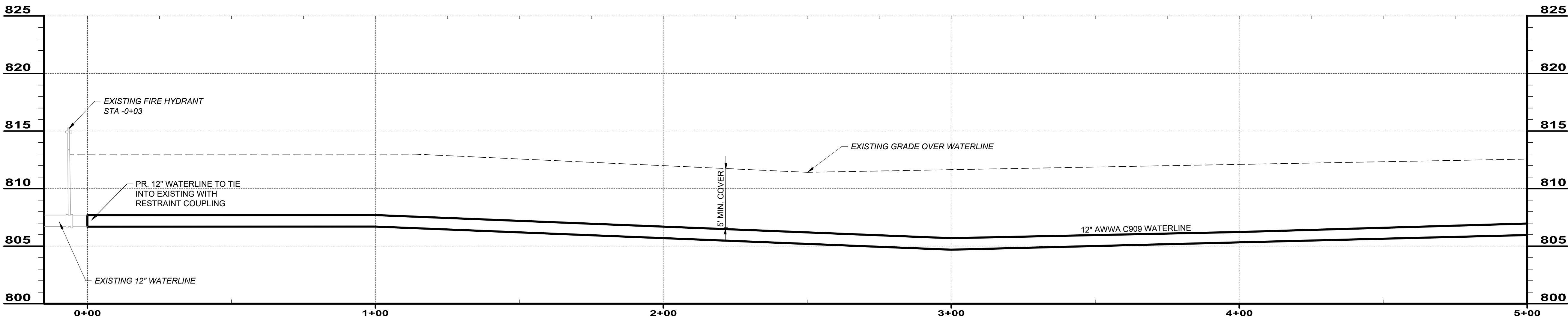
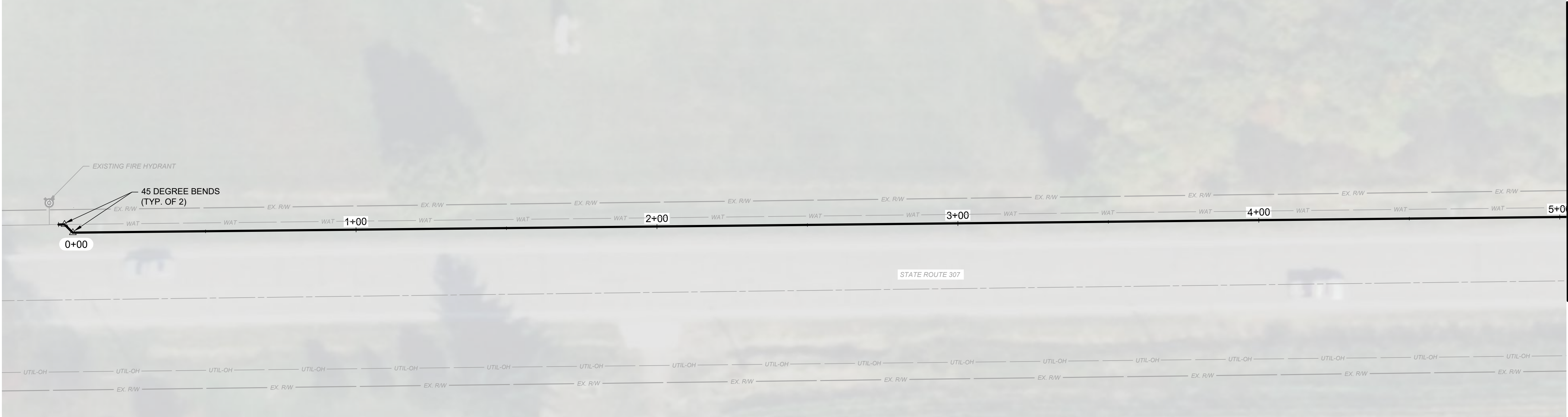
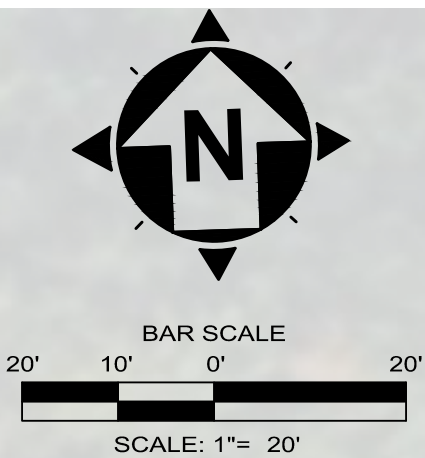
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WATERLINE REPLACEMENT GENERAL NOTES:

1. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL REMOVE AND REPLACE WATERLINE IN THE SECTIONS NOTED ON THE PLANS.
3. ALL PROPOSED WATERLINE SHALL BE 12" AWWA C909 UNLESS OTHERWISE NOTED IN THE PLANS.
4. ALL WATERLINE SHALL BE INSTALLED WITH A MINIMUM OF 5 FOOT COVER IN RESPECT TO THE EXISTING GRADE. THE CONTRACTOR SHALL CONFIRM THE EXISTING GRADE ABOVE THE WATERLINE CENTERLINE PRIOR TO EXCAVATION.

07-008-00-008-00
CARTER - JONES LUMBER CO.
2701 STATE ROUTE 307
VOL. 635, PG. 18



SR 307 0+00 TO 5+00

SCALE: HORIZ. 1" = 20'
VERT. 1" = 5'



ISSUED FOR:	REVIEW SET	NO	REVISION	DATE
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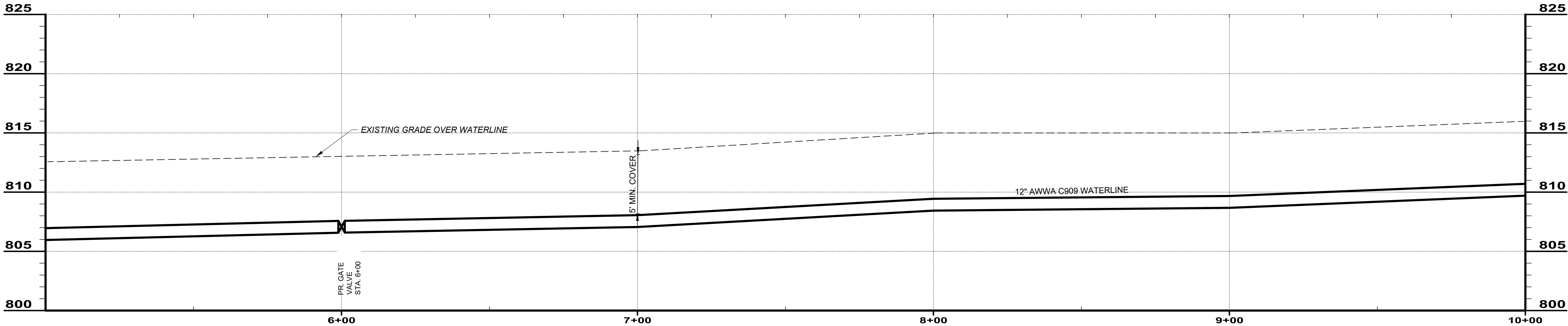
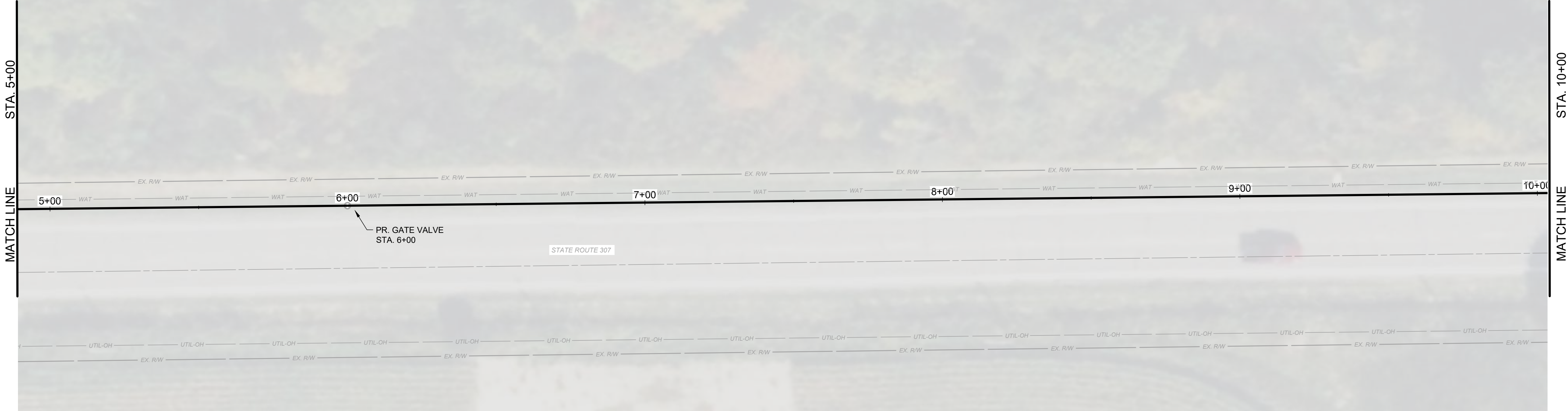
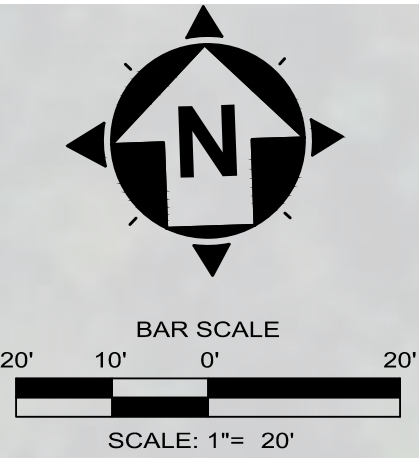
ASHTABULA COUNTY	JEFFERSON COUNTY
JEFFERSON BOOSTER STATION REPLACEMENT	JEFFERSON, OHIO
ASHTABULA COUNTY	BOOSTER STATION - 10 SERIES
	PLAN AND PROFILE 0+00 TO 5+00

PROJECT NO.	232225
DISCIPLINE	CIVIL
SHEET NAME	10C-01
SHEET	OF
6	17

WATERLINE REPLACEMENT GENERAL NOTES:

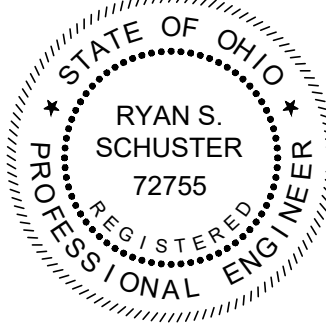
1. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL REMOVE AND REPLACE WATERLINE IN THE SECTIONS NOTED ON THE PLANS.
3. ALL PROPOSED WATERLINE SHALL BE 12" AWWA C909 UNLESS OTHERWISE NOTED IN THE PLANS.
4. ALL WATERLINE SHALL BE INSTALLED WITH A MINIMUM OF 5 FOOT COVER IN RESPECT TO THE EXISTING GRADE. THE CONTRACTOR SHALL CONFIRM THE EXISTING GRADE ABOVE THE WATERLINE CENTERLINE PRIOR TO EXCAVATION.

07-008-00-008-00
CARTER - JONES LUMBER CO.
2701 STATE ROUTE 307
VOL. 635, PG. 18



SR 307 5+00 TO 10+00

SCALE: HORIZ. 1" = 20'
VERT. 1" = 5'



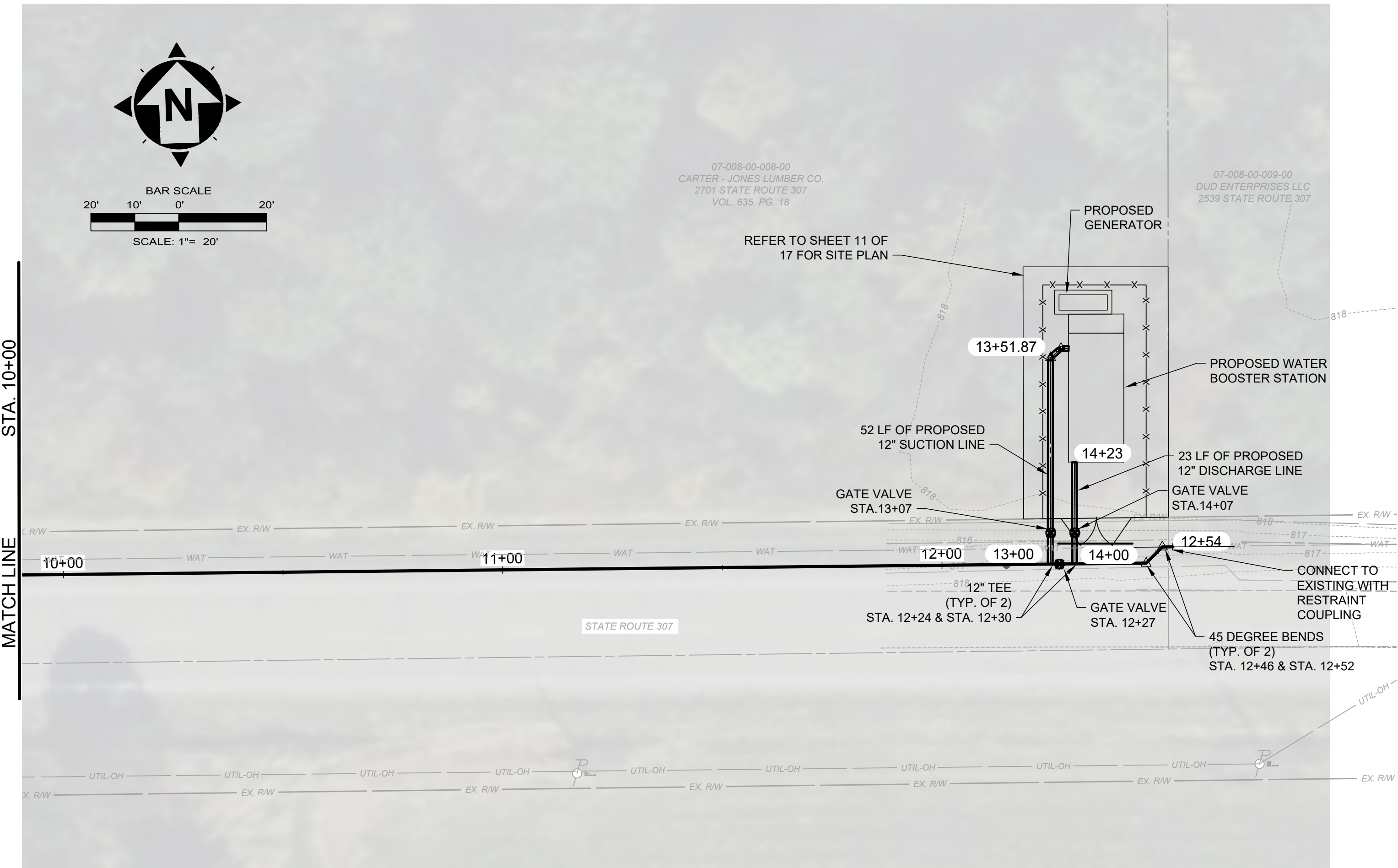
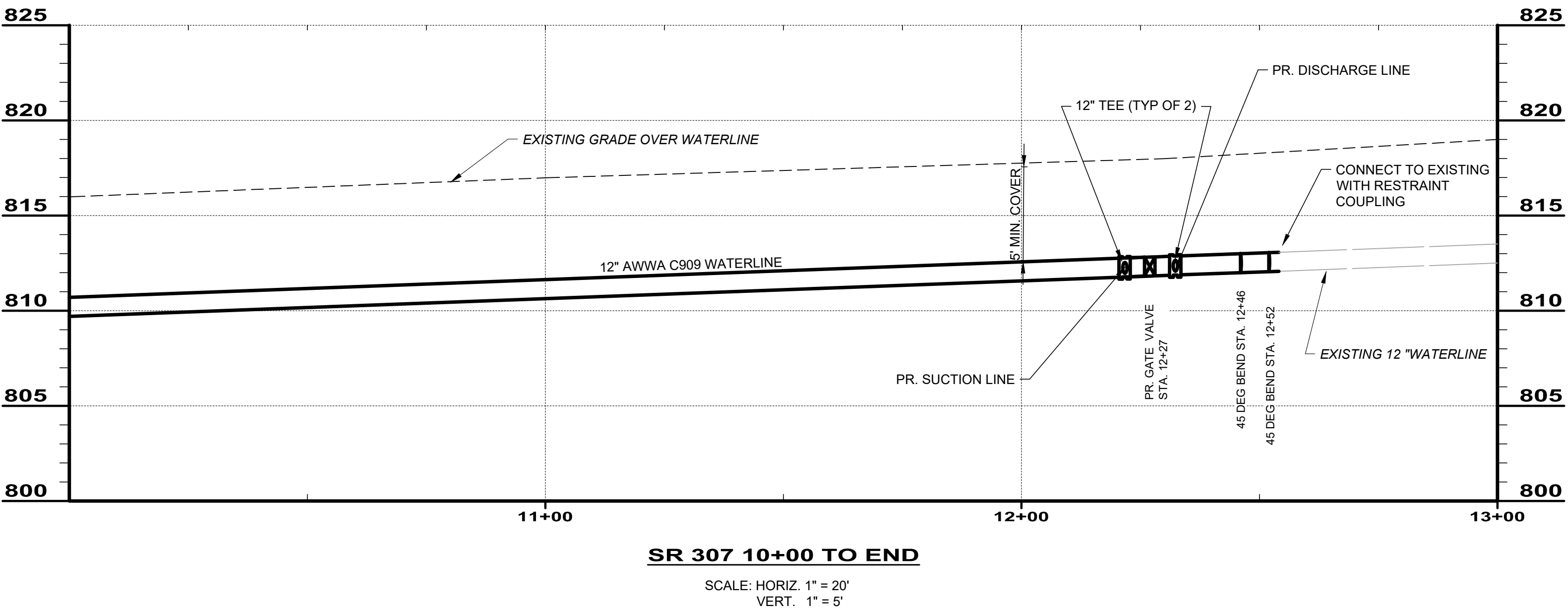
ISSUED FOR:	REVIEW SET	NO	REVISION	DATE
ISSUE DATE:	3/27/26			
SCALE:	AS NOTED			
DESIGNED BY:	MLB			
DRAWN BY:	JBB			
CHECKED BY:	RSS			

ASHTABULA COUNTY	JEFFERSON COUNTY, OHIO
JEFFERSON BOOSTER STATION REPLACEMENT	
ASHTABULA COUNTY	JEFFERSON, OHIO
BOOSTER STATION - 10 SERIES	
PLAN AND PROFILE 5+00 TO 10+00	

PROJECT NO.	232225
DISCIPLINE	CIVIL
SHEET NAME	10C-02
SHEET	7
OF	17

WATERLINE REPLACEMENT GENERAL NOTES:

1. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL REMOVE AND REPLACE WATERLINE IN THE SECTIONS NOTED ON THE PLANS.
3. ALL PROPOSED WATERLINE SHALL BE 12" AWWA C909 UNLESS OTHERWISE NOTED IN THE PLANS.
4. ALL WATERLINE SHALL BE INSTALLED WITH A MINIMUM OF 5 FOOT COVER IN RESPECT TO THE EXISTING GRADE. THE CONTRACTOR SHALL CONFIRM THE EXISTING GRADE ABOVE THE WATERLINE CENTERLINE PRIOR TO EXCAVATION.
5. CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS IF ANY TEMPORARY CONSTRUCTION EASEMENTS ARE REQUIRED.
6. STATIONING BEGINNING WITH 13+00 REFERS TO BOOSTER STATION SUCTION LINE.
7. STATIONING BEGINNING WITH 14+00 REFERS TO BOOSTER STATION DISCHARGE LINE.



STATE OF OHIO
RYAN S. SCHUSTER
72755
REGISTERED PROFESSIONAL ENGINEER

verdantas

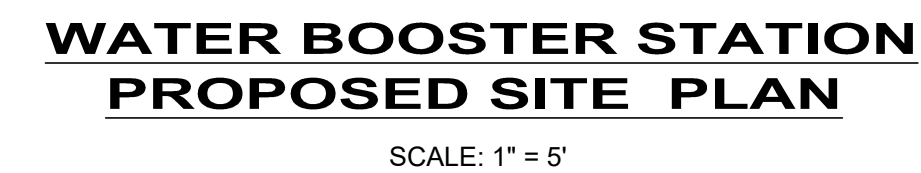
NO	REVISION	DATE

ISSUED FOR:	REVIEW SET	NO	REVISION	DATE

PROJECT NO.	DISCIPLINE	SHEET NAME	SHEET	OF
232225	CIVIL	10C-03	8	17

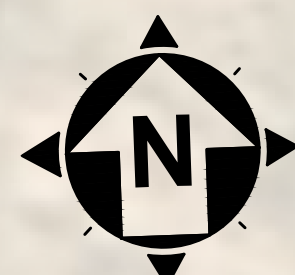
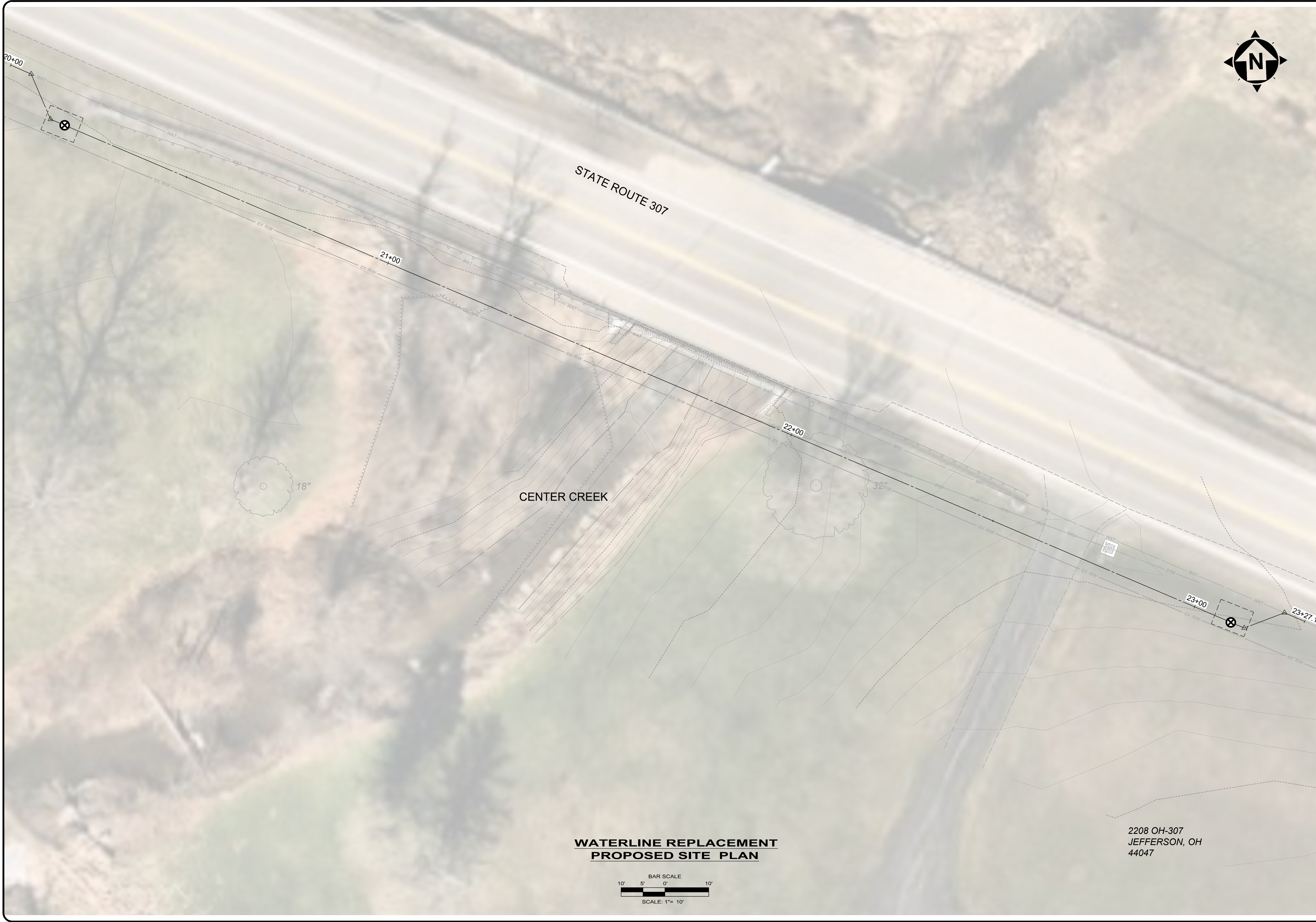
ASHTABULA COUNTY
JEFFERSON BOOSTER STATION REPLACEMENT
ASHTABULA COUNTY
BOOSTER STATION - 10 SERIES
PLAN AND PROFILE 10+00 TO END
JEFFERSON, OHIO

1. THE WATER BOOSTER STATION FOUNDATION SHALL HAVE A FINISHED FLOOR ELEVATION OF 819.00.
2. ALL NEW BURIED SUCTION AND DISCHARGE PIPING SHALL INCLUDE RESTRAINED JOINTS.
3. ALL NEW WATERLINE SHALL BE AWWA C909, UNLESS OTHERWISE NOTED. ALL PIPING TO BE INSTALLED UNDER THE NEW PUMP STATION FOUNDATION PAD SHALL BE DUCTILE IRON PER SPECIFICATION SECTION 331113.01.
4. ALL BURIED JOINTS SHALL CONFORM TO SPECIFICATION SECTION 331113.01.
5. CONTRACTOR SHALL CONFIRM THE LOCATION OF THE EXISTING WATERLINE PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL CLEAR EXISTING VEGETATION WITHIN THE EASEMENT FOR PLACEMENT OF WATER BOOSTER STATION AND RETURN SITE TO EXISTING GRADE. CONTRACTOR SHALL SEED THE EASEMENT SITE.
7. CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS IF ANY TEMPORARY CONSTRUCTION EASEMENTS ARE REQUIRED.
8. CONTRACTOR TO INSTALL A 10" HDPE DRIVE CULVERT UNDER NEW PAVEMENT.



ASHTABULA COUNTY	JEFFERSON, OHIO
BOOSTER STATION- 10 SERIES	
BOOSTER STATION SITE PLAN	

PROJECT NO.	
232225	
DISCIPLINE	
PROCESS	
SHEET NAME	
10D-01	
SHEET	OF
11	17



STATE OF OHIO
RYAN S. SCHUSTER
72755
REGISTERED PROFESSIONAL ENGINEER

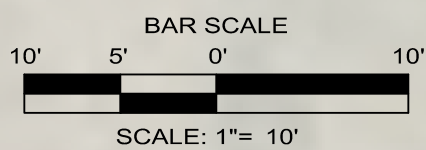


ISSUED FOR:	REVIEW SET	NO	REVISION	DATE
ISSUE DATE:	6/14/24			
SCALE:	AS NOTED			
DESIGNED BY:	MLB			
DRAWN BY:	JBB			
CHECKED BY:	RSS			

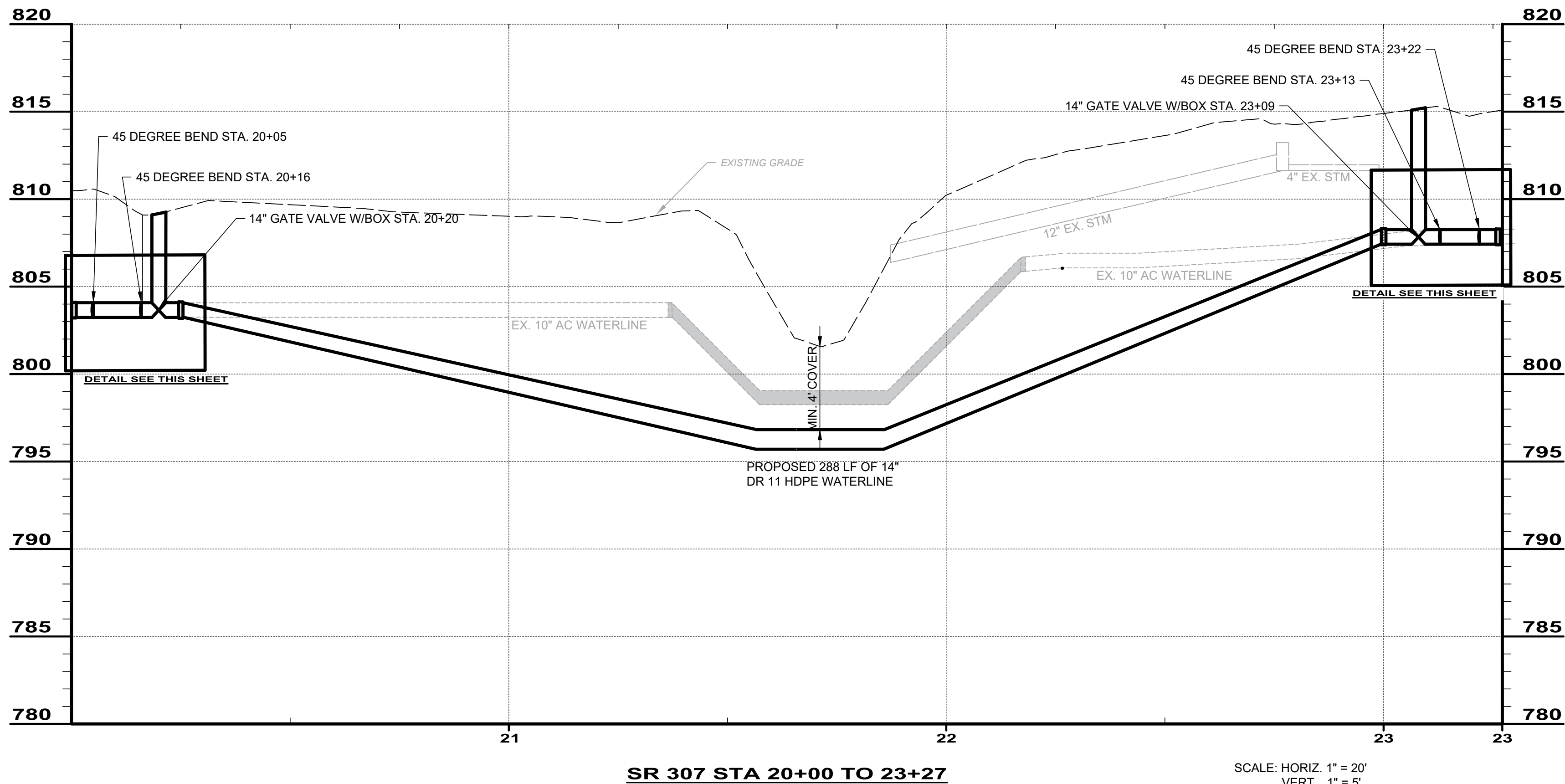
ASHTABULA COUNTY	JEFFERSON, OHIO
JEFFERSON BOOSTER STATION REPLACEMENT	
ASHTABULA COUNTY	
BOOSTER STATION - 10 SERIES	
WATERLINE REPLACEMENT SITE PLAN	

PROJECT NO.	232225
DISCIPLINE	CIVIL
SHEET NAME	10C-04
SHEET	9
OF	17

WATERLINE REPLACEMENT
PROPOSED SITE PLAN

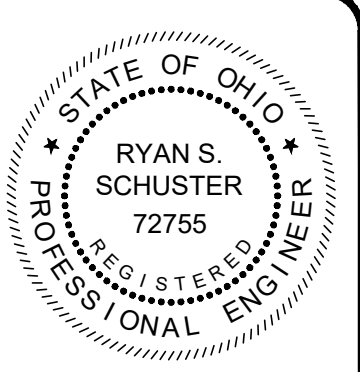
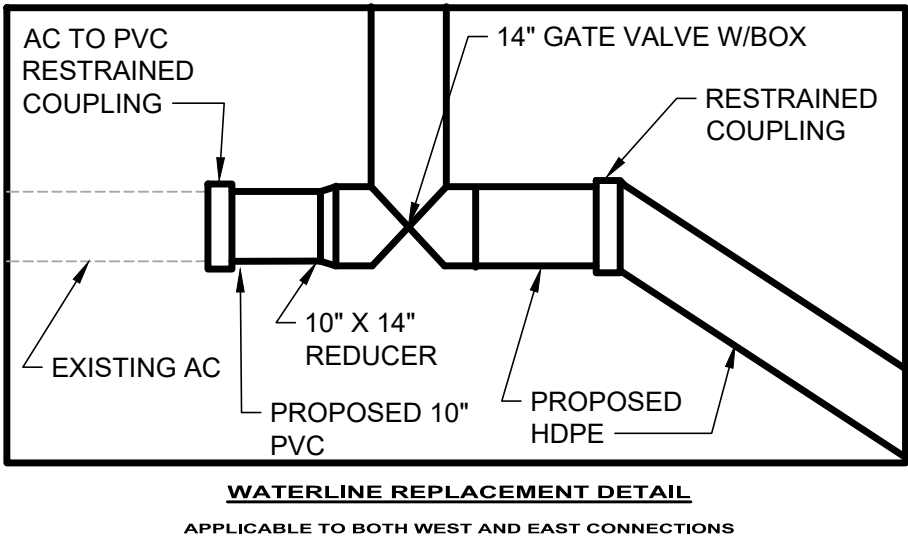


2208 OH-307
JEFFERSON, OH
44047



WATERLINE REPLACEMENT GENERAL NOTES:

- THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL ABANDON EXISTING SECTION OF WATERLINE BETWEEN THE VALVES IN PLACE.
- ALL WATERLINE SHALL BE INSTALLED WITH A MINIMUM OF 5 FOOT COVER IN RESPECT TO THE EXISTING GRADE. THE CONTRACTOR SHALL CONFIRM THE EXISTING GRADE ABOVE THE WATERLINE CENTERLINE PRIOR TO EXCAVATION.



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ISSUED FOR:	REVIEW SET	NO	REVISION	DATE
2/25/26	AS NOTED			
SCALE:	MLB			
DESIGNED BY:	JBB			
DRAWN BY:	RSS			
CHECKED BY:				

ASHTABULA COUNTY	JEFFERSON, OHIO
JEFFERSON BOOSTER STATION REPLACEMENT	
ASHTABULA COUNTY	BOOSTER STATION - 10 SERIES
PLAN AND PROFILE 0+00 TO 5+00	

PROJECT NO.	232225
DISCIPLINE	CIVIL
SHEET NAME	10C-05
SHEET	OF
10	17



ASHTABULA COUNTY

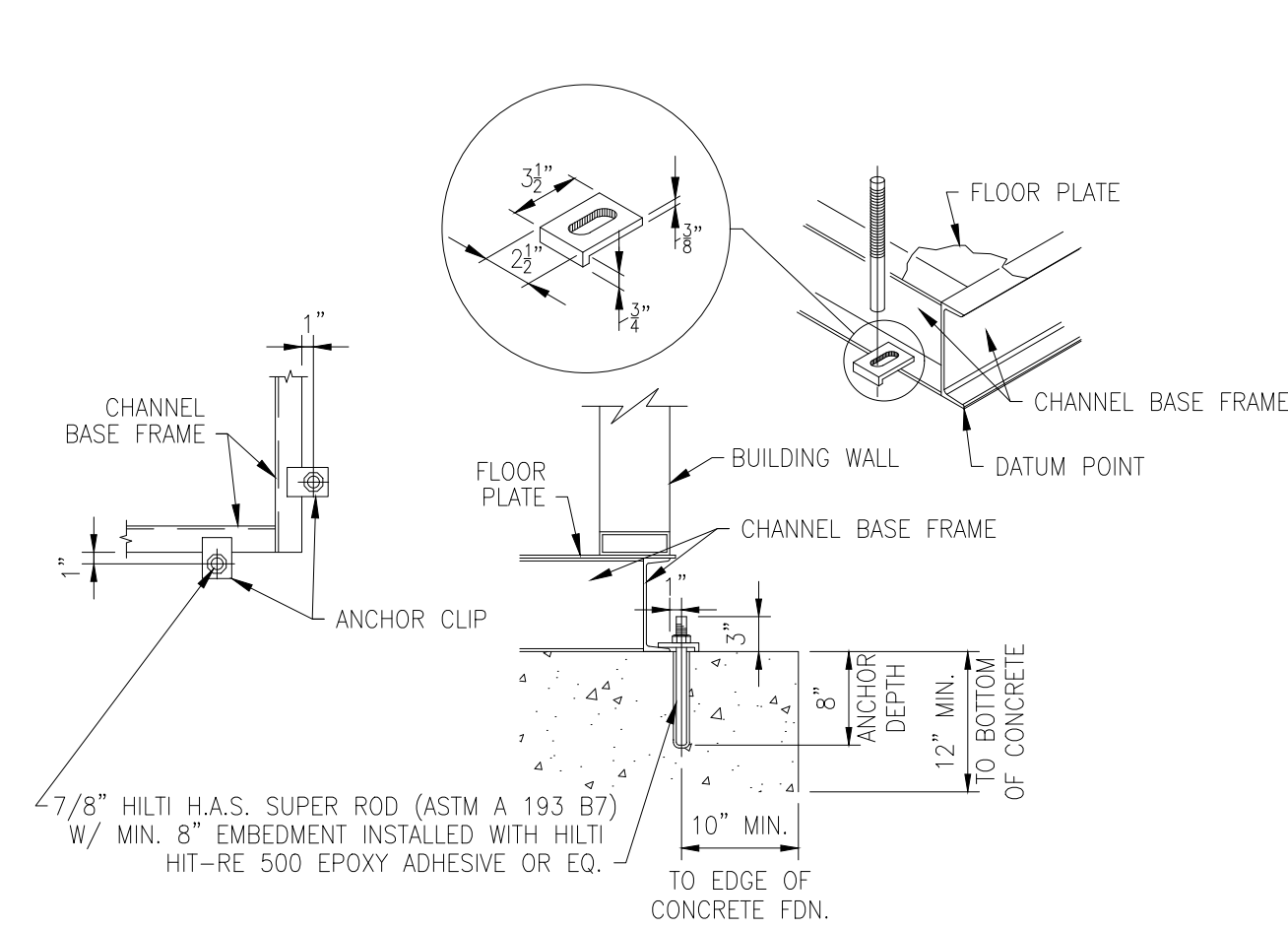
JEFFERSON BOOSTER STATION REPLACEMENT

ASHTABULA COUNTY

JEFFERSON, OHIO

BOOSTER STATION- 10 SERIES

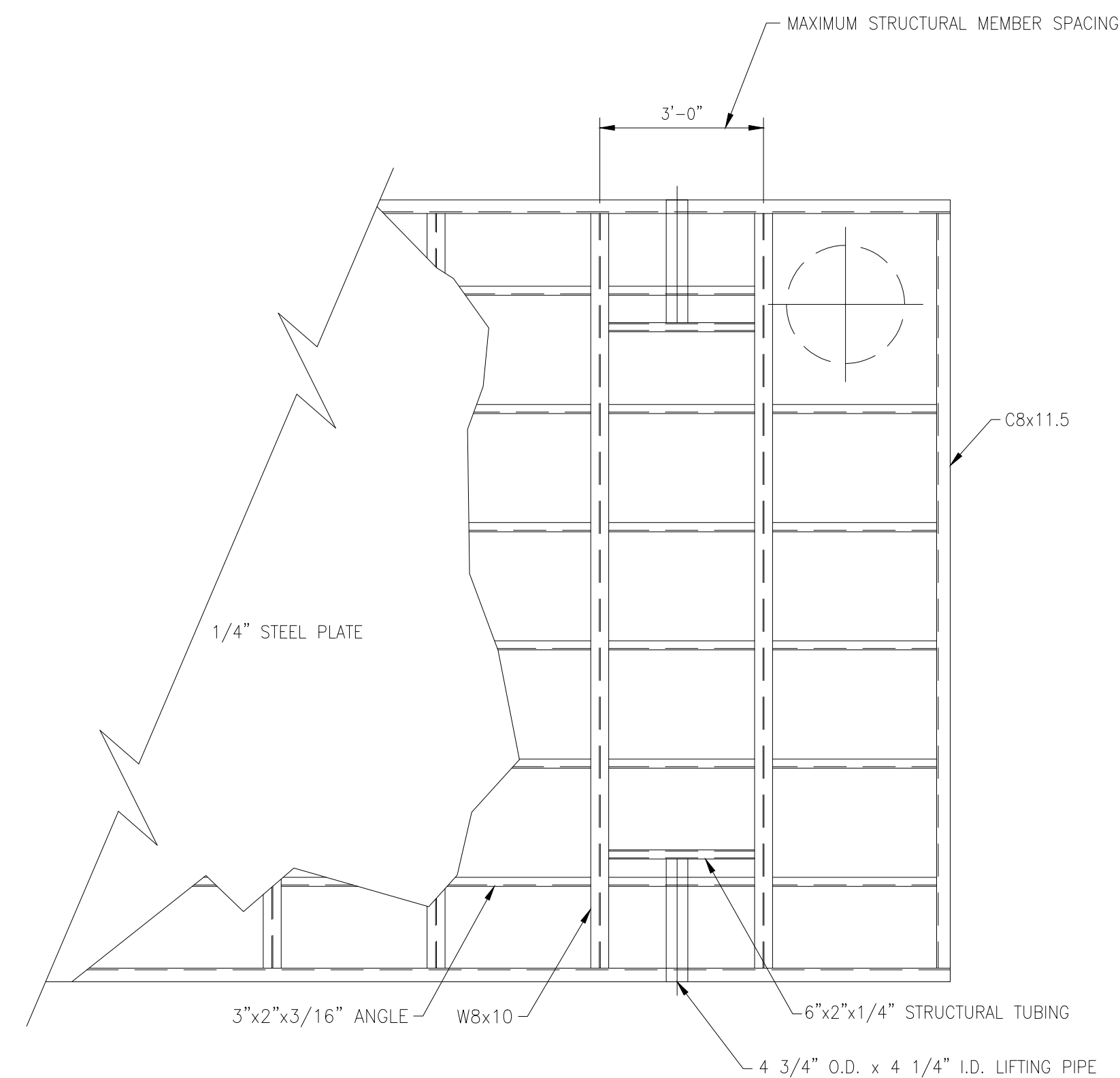
BOOSTER STATION DETAILS -1



BASE FRAME ANCHOR DETAIL
CHANNEL FRAMING MEMBERS

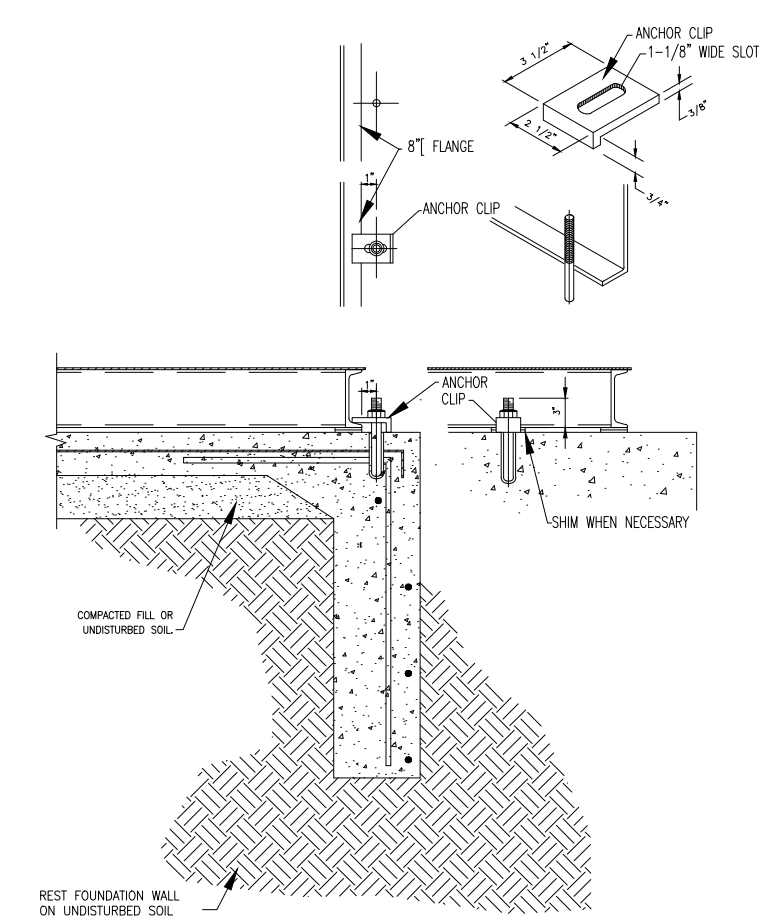
NOTE:

1. FINAL FOUNDATION AND ANCHOR BOLT DESIGN AND DIMENSIONS AS DIRECTED BY STATION MFR. (MINIMUMS ARE SHOWN).
2. SHIMS MAY BE REQUIRED AROUND PERIMETER OF BASE FRAME FOR LEVELNESS AND PROPER DOOR ALIGNMENT IN FRAME.



TYPICAL SKID PLAN

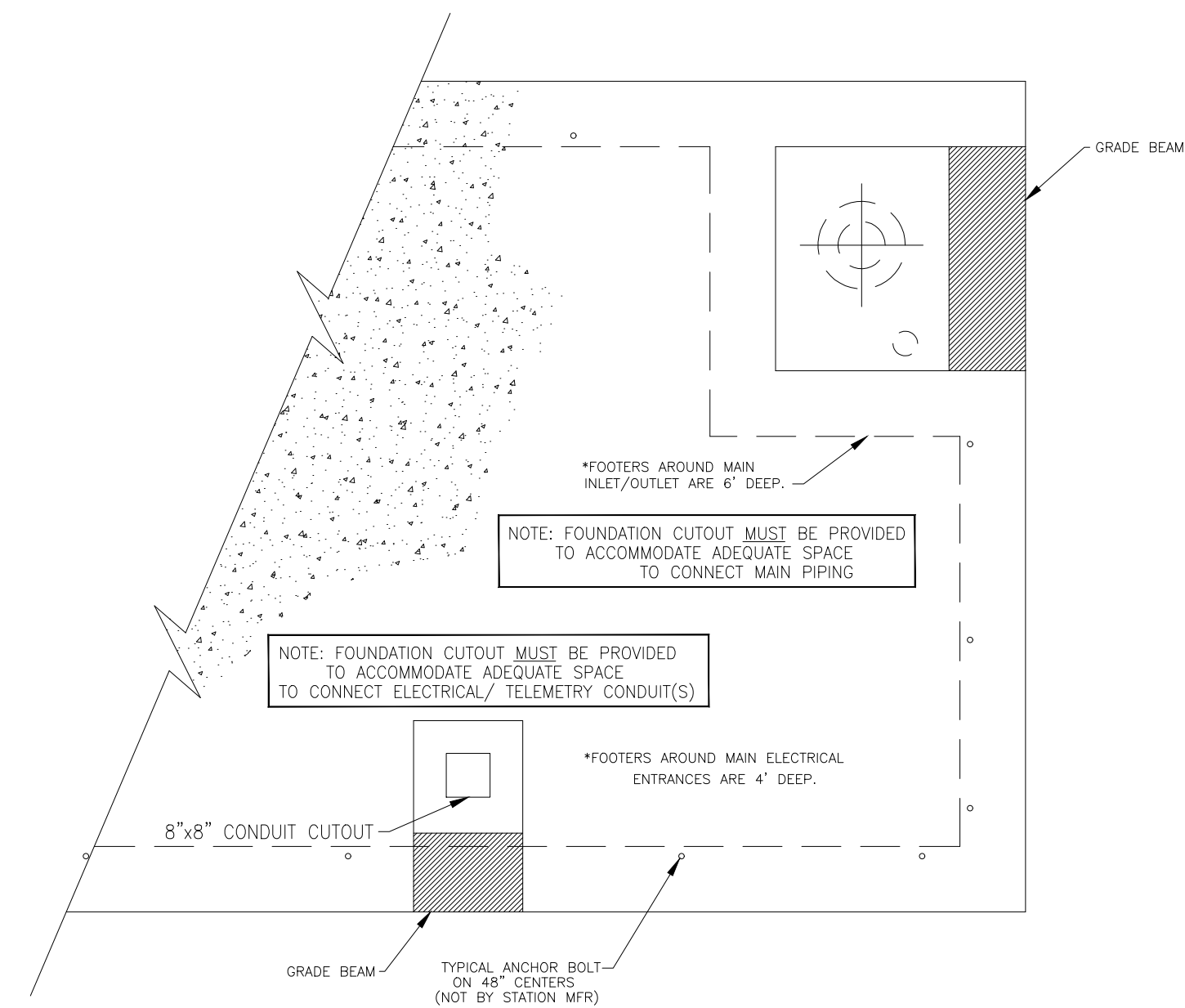
MAXIMUM SPACING AND STRUCTURAL STEEL AS SHOWN ARE MINIMUM REQUIRED



TYPICAL ANCHOR/FOUNDATION DETAIL
(NOT FOR CONSTRUCTION PURPOSES)

NOTE:

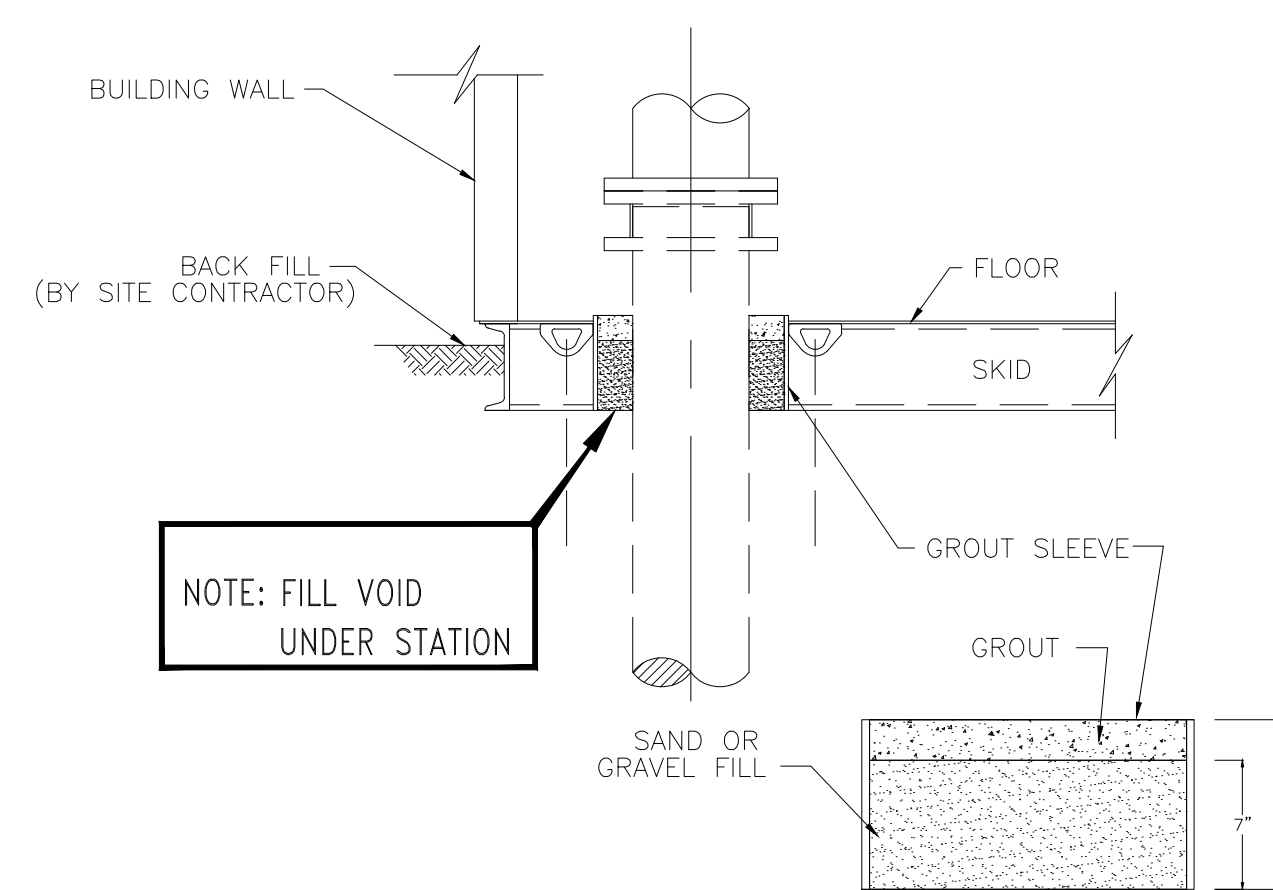
1. FINAL FOUNDATION AND ANCHOR BOLT DESIGN AND DIMENSIONS AS DIRECTED BY STATION MFR (MINIMUMS ARE SHOWN).
2. SHIMS MAY BE REQUIRED AROUND PERIMETER OF BASE FRAME FOR LEVELNESS AND PROPER DOOR ALIGNMENT IN FRAME.
3. QUANTITY OF ANCHOR BOLTS SPECIFIED BY ENGINEER.
4. ANCHOR BOLTS SHALL BE PLACED WITHIN 12" OF EACH CORNER WITH THE REMAINING ANCHORS BEING SPACED NO MORE THAN 6' APART ALONG ALL SIDES OF THE BUILDING PERIMETER WITH ANY WALL OF 7 FEET OR LESS HAVING TWO ANCHOR BOLTS, ALL ACCORDING TO IBC 2308.3.1, 2015 ED.



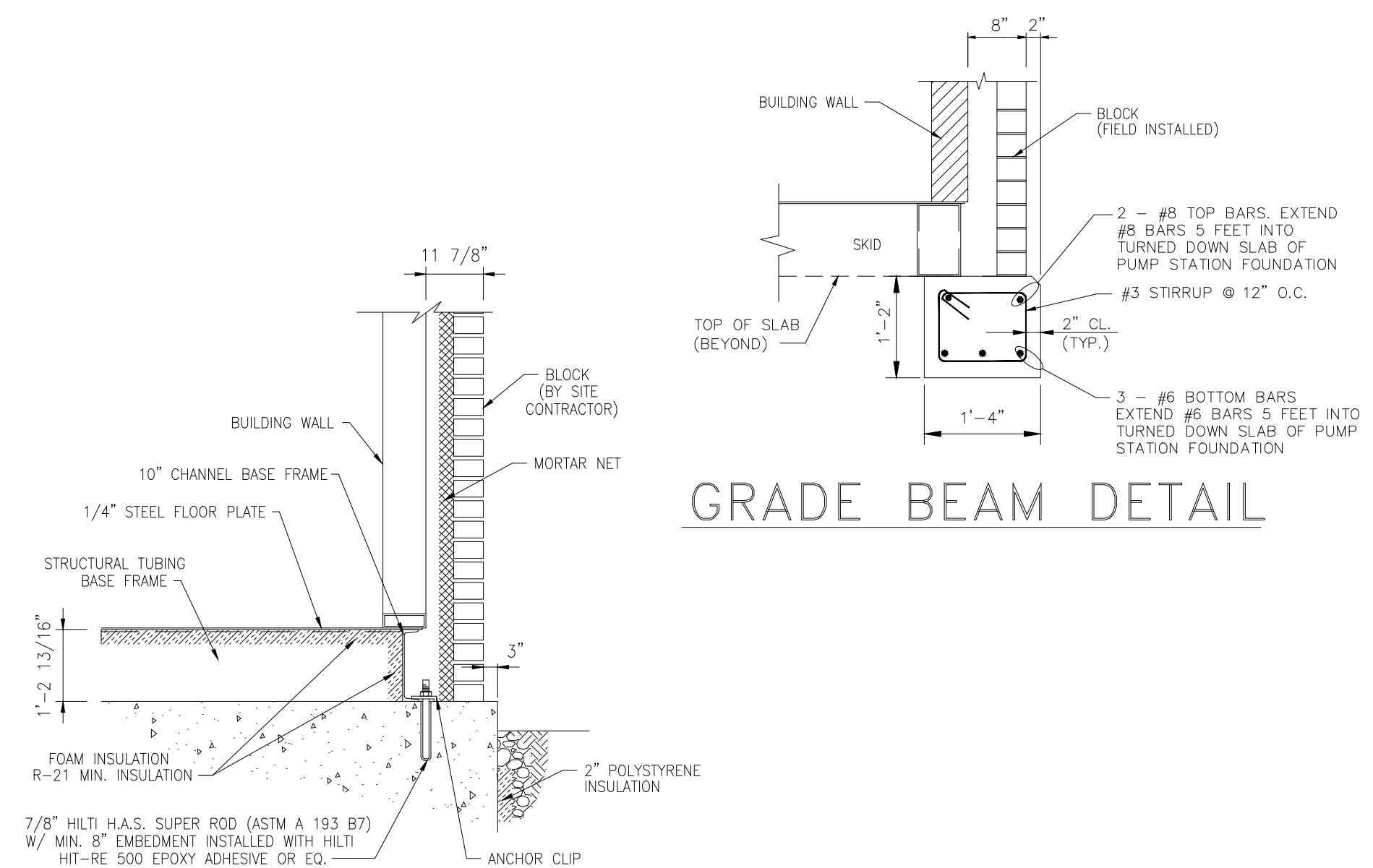
TYPICAL FOUNDATION LAYOUT

(NOT FOR CONSTRUCTION PURPOSES)

FOUNDATION AND ANCHOR BOLT DESIGN AND DIMENSIONS
BY STATION MANUFACTURER



TYPICAL GROUT DETAIL

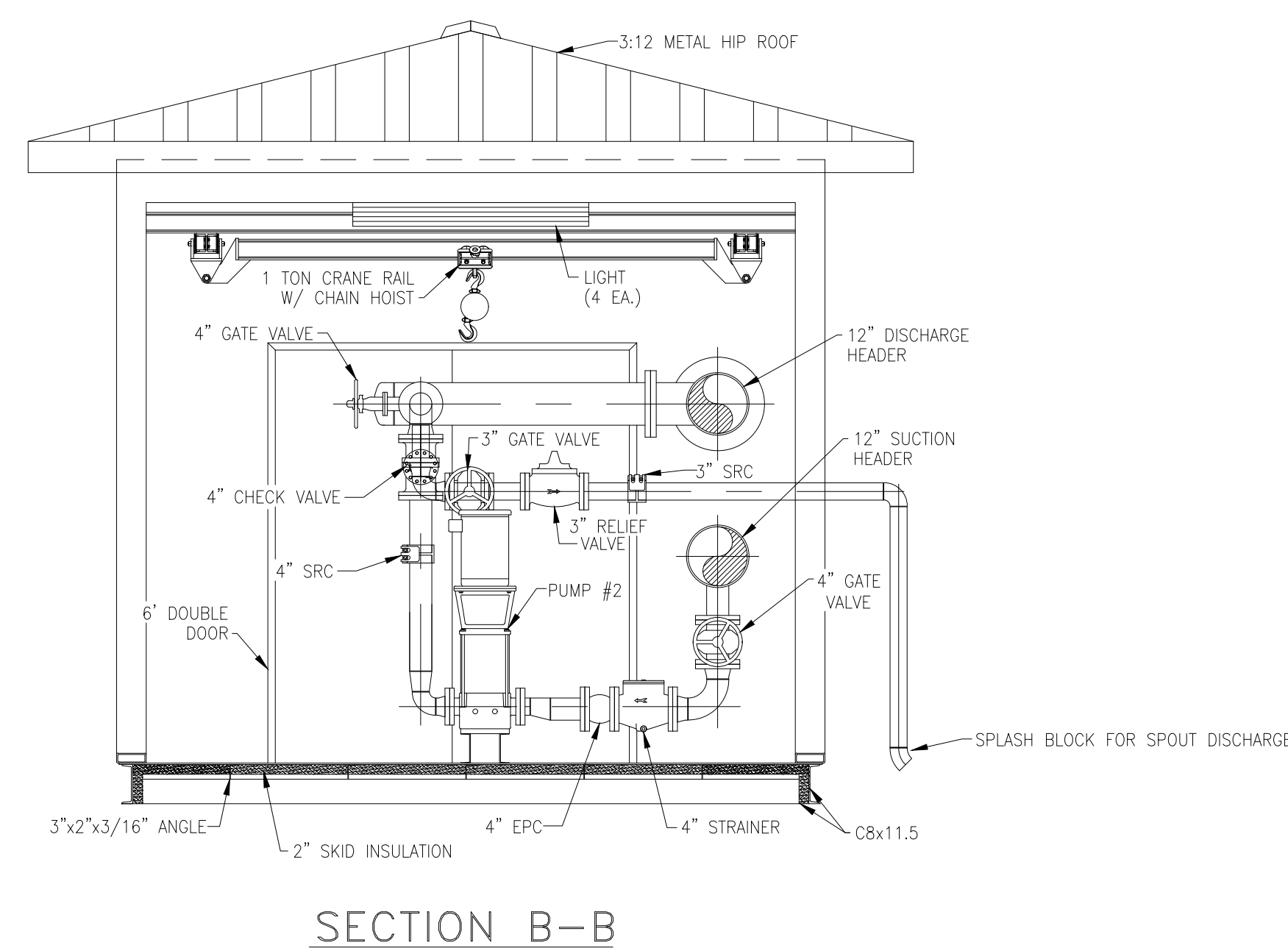
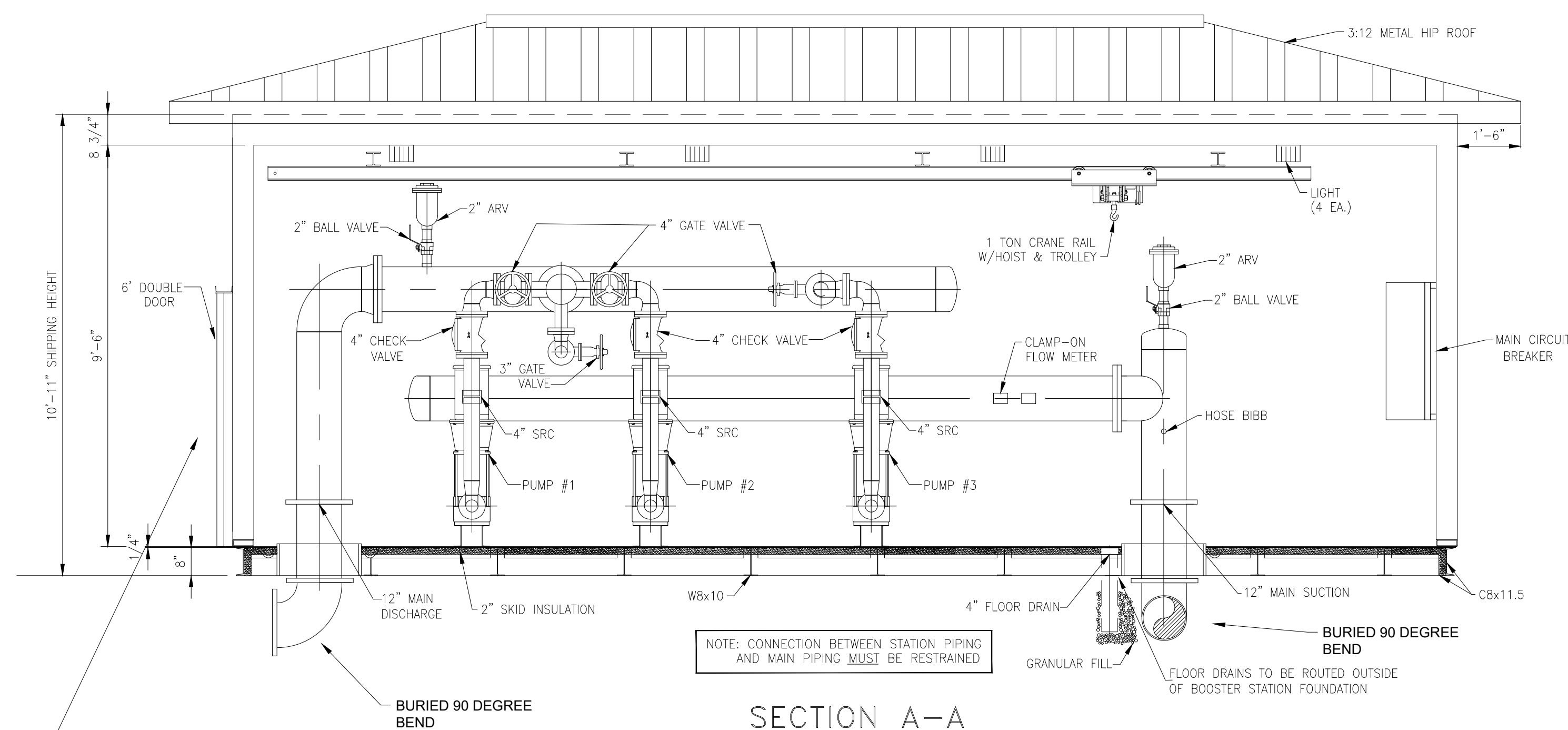


GRADE BEAM DETAIL

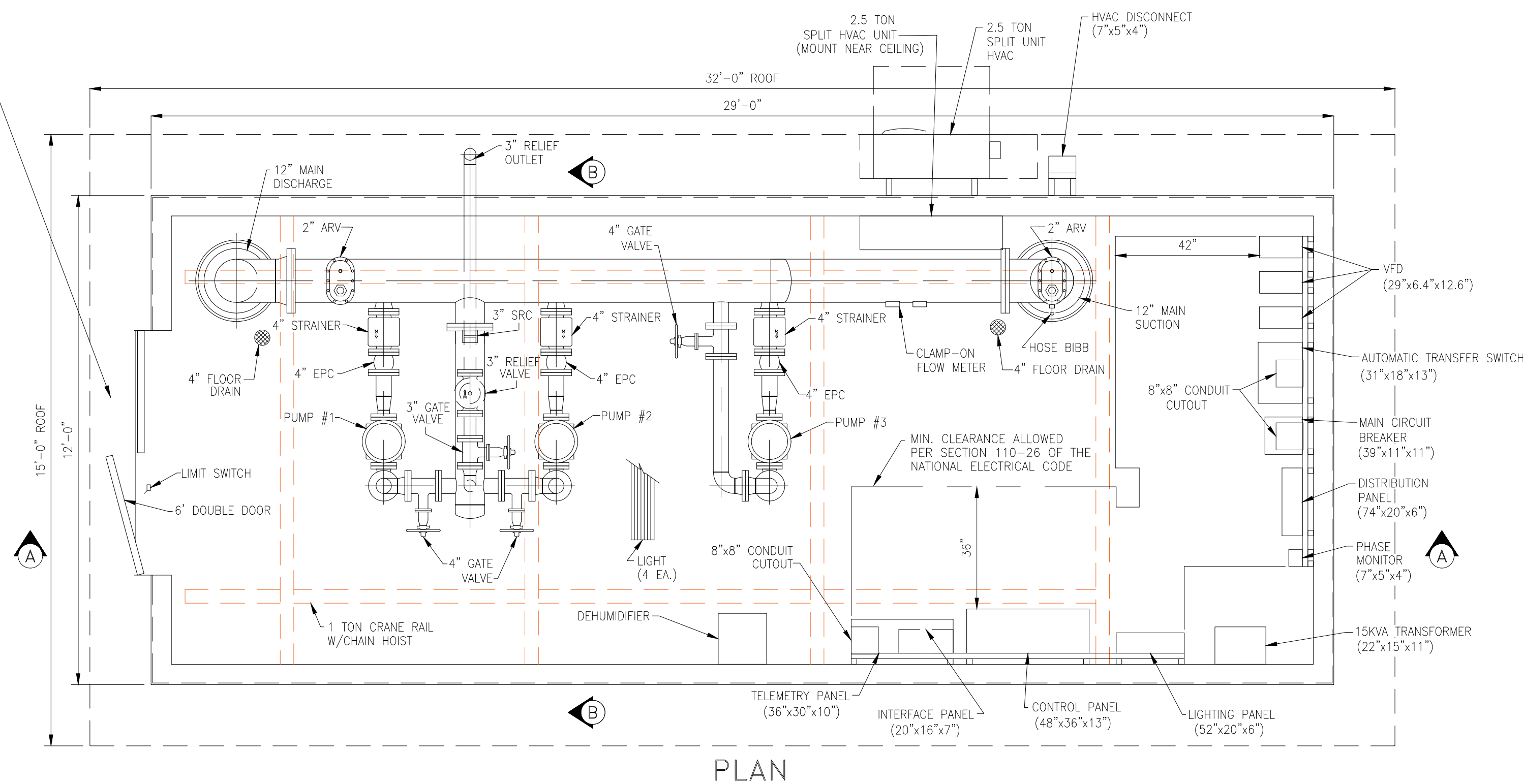
NOTE: THIS DRAWING IS PROVIDED FOR INCLUSION IN BID DOCUMENTS AND FOR INFORMATION ONLY.



ASHTABULA COUNTY	
JEFFERSON BOOSTER STATION REPLACEMENT	JEFFERSON, OHIO
ASHTABULA COUNTY	BOOSTER STATION- 10 SERIES
	BOOSTER STATION DETAILS -2



DOOR FACING SR 307



NOTE: "EXCEPT FOR PIPE END SUPPORTS WHICH ARE SHOWN, VERTICAL AND ANGLE PIPE BRACES ARE NOT SHOWN FOR DRAWING CLARITY."

DESIGN CRITERIA

Controls TELEMETRY
Power Service: 480 Volts, 3 Phase, 60 Cycle

PUMP DATA

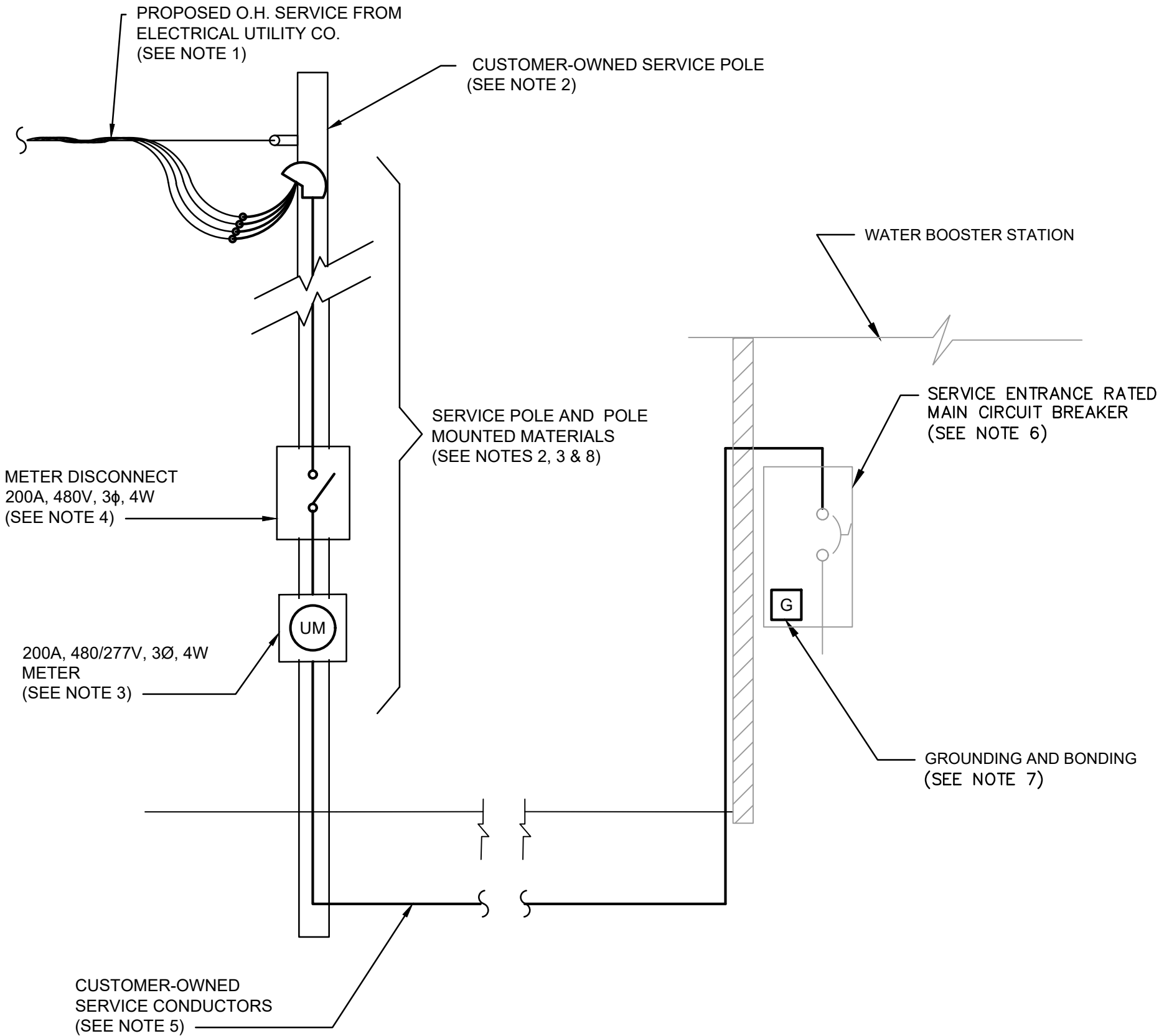
Type: VERTICAL, MULTI-STAGE, CENTRIFUGAL
 Pump 1, 2, & 3
 Capacity: 225 G.P.M. AT 165 FEET T.D.H.
 Size: 3" X 3"
 Motor: 15 H.P., 3600 R.P.M.

ELECTRICAL GENERAL NOTES:

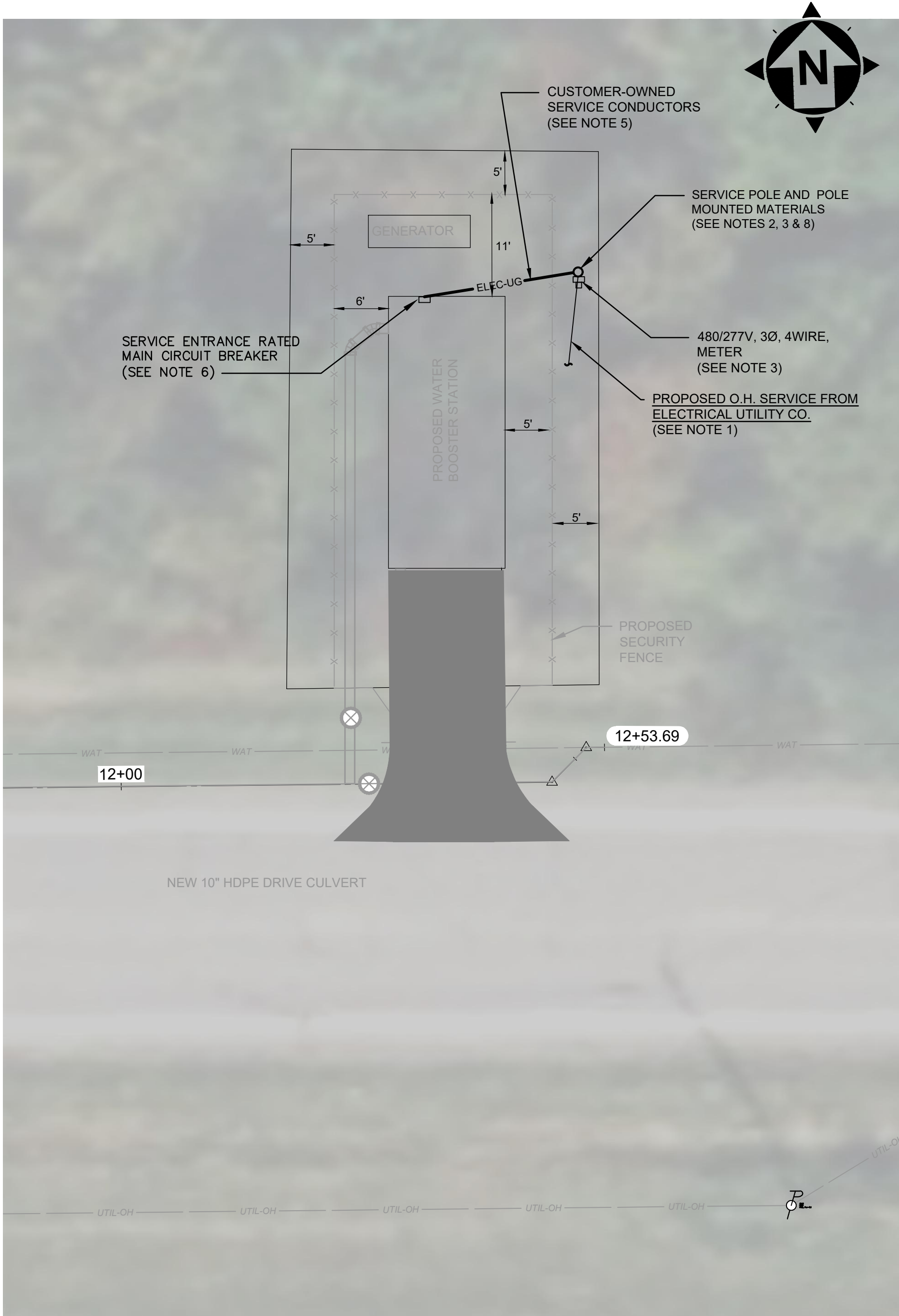
- ALL ELECTRICAL EQUIPMENT AND MATERIALS WILL BE SELECTED AND INSTALLED IN COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL FIRE CODES, INCLUDING BUT NOT LIMITED TO ALL PERTINENT NFPA REGULATIONS. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO ENSURE COMPLIANCE WITH THESE CODES.
- DO NOT INSTALL DEVICES SCALED FROM THESE DRAWINGS. ALL DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN IN THE APPROVED CONDUIT/DEVICE LAYOUT DRAWINGS AND WITH DIMENSIONS TAKEN IN THE FIELD.
- ELECTRICIAN TO VISIT SITE AND VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.
- ELECTRICIAN TO CONFIRM LOCATIONS OF ALL ELECTRICAL EQUIPMENT AND ELECTRICAL CHARACTERISTICS OF PROCESS EQUIPMENT PROVIDED BY OTHER TRADES PRIOR TO INSTALLING ROUGH-INS AS SHOWN ON THE ELECTRICAL PLANS. ALL SHOP DRAWING REQUIREMENTS WILL BE CONSIDERED AS THE MEANS AND METHODS OF INSTALLATION.
- ELECTRICIAN SHALL REVIEW ALL OTHER TRADES' CONSTRUCTION DOCUMENTS AND/OR COORDINATE WITH OTHER TRADES AND VERIFY IF THERE ARE ANY ADDITIONAL ELECTRICAL REQUIREMENTS NOT SHOWN ON ELECTRICAL DRAWINGS. COST FOR WORK SHOWN ON OTHER TRADES' DRAWINGS SHALL BE INCLUDED IN BASE BID. ALL FIELD WIRING AND TERMINATIONS OF PROCESS EQUIPMENT AND INSTRUMENTATION AND CONTROLS SHALL BE THE RESPONSIBILITY OF THE ELECTRICIAN. ALL CABLES AND WIRES PROVIDED BY VENDORS SHALL BE INSTALLED AND TERMINATED BY THE ELECTRICIAN. WIRE ALL MISCELLANEOUS POWER AND CONTROLS AS REQUIRED TO PROVIDE A COMPLETE FUNCTIONING SYSTEM.
- CONFORM TO THE NEC, OSHA, FIRE MARSHAL, BUILDING DEPARTMENT AND OTHER APPLICABLE CODES AND REGULATIONS. OBTAIN PERMITS, PAY ALL FEES, AND ARRANGE FOR REQUIRED INSPECTIONS.
- ALL FEEDERS RUN BELOW GRADE SHALL BE RUN IN PVC CONDUIT AT MINIMUM 2'-0" BELOW FINISHED GRADE. TRANSITION TO ABOVE GRADE SHALL BE MADE USING FACTORY PVC COATED RIGID STEEL CONDUIT SWEEPS.

PROPOSED ELECTRICAL SERVICE NOTES:

- PROVIDE A NEW 200A, 480Y/277V, 3-PHASE, 4-WIRE OVERHEAD ELECTRICAL SERVICE IN COORDINATION WITH OHIO EDISON / FIRST ENERGY. ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL, AND COORDINATE ALL CUSTOMER-OWNED SERVICE EQUIPMENT AND CONDUCTORS AS DESCRIBED HEREIN. UTILITY SHALL FURNISH AND INSTALL THE OVERHEAD SERVICE DROP AND REVENUE METER.
 - SERVICE DROP ATTACHMENT HARDWARE
 - REQUIRED ANCHORS OR GUYS (IF REQUIRED BY UTILITY)
 - POLE GROUNDING PROVISIONS
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A CUSTOMER-OWNED, PRESSURE-TREATED WOOD SERVICE POLE SUITABLE FOR A 200A, 480Y/277V, 3-PHASE OVERHEAD SERVICE. POLE HEIGHT, CLASS, EMBEDMENT, AND SERVICE ATTACHMENT HARDWARE SHALL COMPLY WITH FIRST ENRGY REQUIREMENTS AND NEC CLEARANCES.
 - METER SOCKET IS CUSTOMER_FURNISHED
 - REVENUE METER IS UTILITY_FURNISHED
 - METER LOCATION SATISFIES UTILITY ACCESS RULES
- PROVIDE A CUSTOMER-OWNED, LOCKABLE DISCONNECT SWITCH AHEAD OF THE METER AS REQUIRED BY OHIO EDISON FOR 480-VOLT, 3-PHASE SERVICE. DISCONNECT SHALL BE SUITABLE FOR UTILITY ISOLATION PURPOSES AND SHALL NOT SERVE AS THE SERVICE DISCONNECTING MEANS PER NEC.
- PROVIDE CUSTOMER-OWNED SERVICE CONDUCTORS FROM THE LOAD SIDE OF THE METER TO THE PACKAGED BOOSTER STATION MAIN CIRCUIT BREAKER. CONDUCTORS SHALL BE SIZED FOR A 200A, 480Y/277V SERVICE AND INSTALLED IN RIGID METAL CONDUIT OR SCHEDULE 80 PVC (WHERE PERMITTED) FROM THE SERVICE POLE TO THE BOOSTER STATION BUILDING.THESE CONDUCTORS ARE STILL SERVICE CONDUCTORS PER NEC
- PACKAGED WATER BOOSTER STATION IS FURNISHED WITH AN INTEGRAL MAIN CIRCUIT BREAKER LISTED AND LABELED AS "SUITABLE FOR USE AS SERVICE EQUIPMENT." THIS BREAKER SHALL SERVE AS THE NEC SERVICE DISCONNECTING MEANS FOR THE FACILITY.
- PROVIDE COMPLETE GROUNDING AND BONDING SYSTEM FOR SERVICE EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 250 AND FIRST ENERGY REQUIREMENTS, INCLUDING GROUND RODS, GROUNDING ELECTRODE CONDUCTORS, AND BONDING OF THE SERVICE POLE, METER SOCKET, RACEWAYS, AND SERVICE EQUIPMENT.
- METERING EQUIPMENT, SERVICE POLE, AND UTILITY-REQUIRED DISCONNECT SHALL BE LOCATED OUTSIDE THE SECURITY FENCE. SERVICE CONDUCTORS SHALL PASS BENEATH THE FENCE IN CONDUIT TO THE BOOSTER STATION BUILDING. NO UTILITY EQUIPMENT SHALL BE LOCATED WITHIN LOCKED OR RESTRICTED-ACCESS AREAS.



PROPOSED ELECTRICAL SERVICE
1-LINE DIAGAM & NOTES



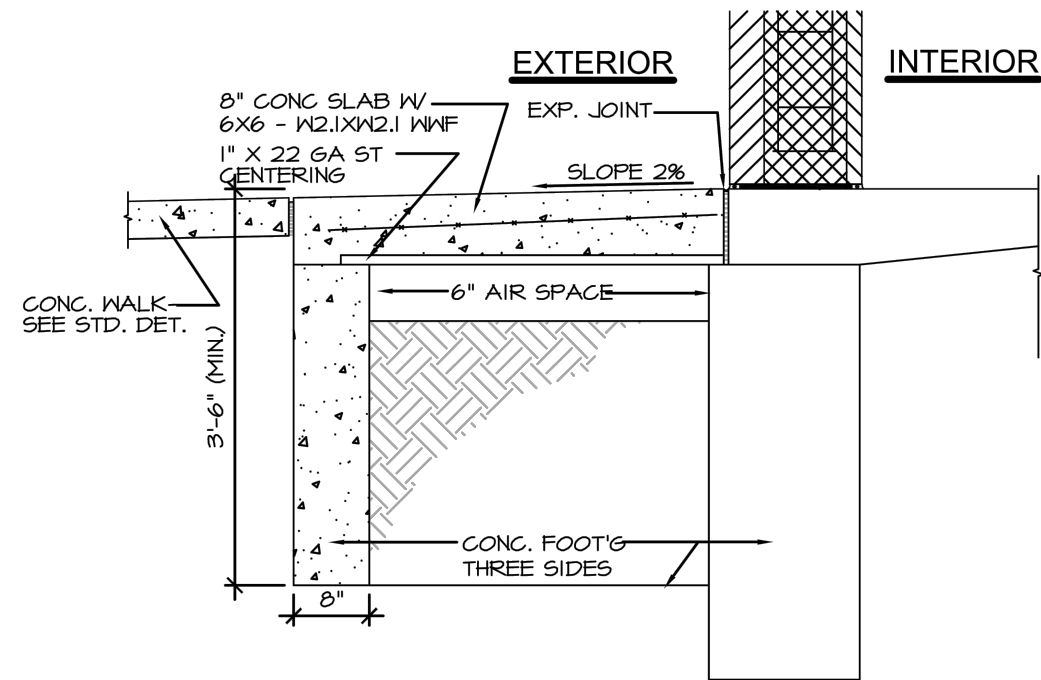
WATER BOOSTER STATION
PROPOSED ELECTRICAL SERVICE
SITE PLAN

SCALE: 1" = 10'

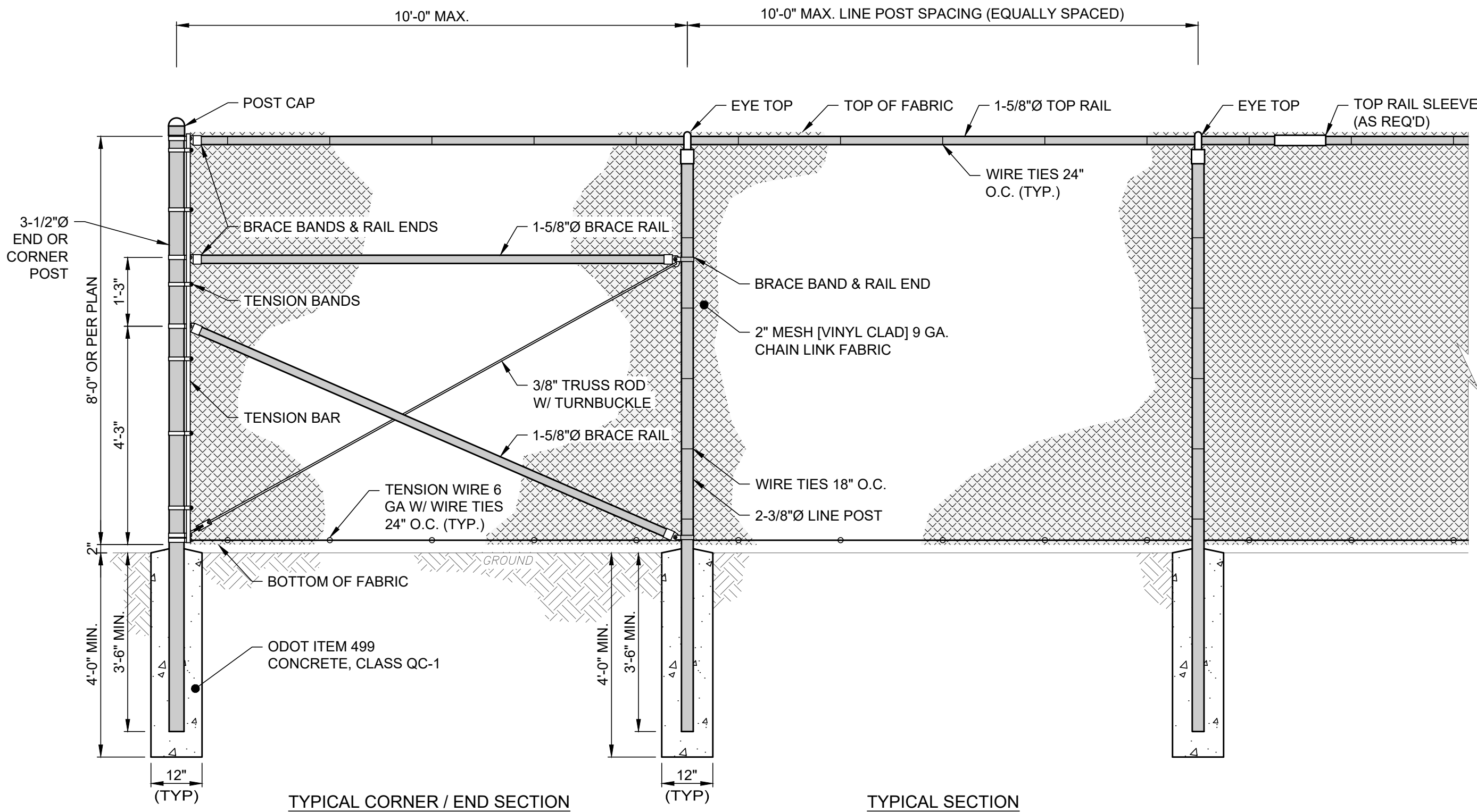
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					2/25/26	AS NOTED	ELE	ELE	...

ASHTABULA COUNTY	JEFFERSON, OHIO
JEFFERSON BOOSTER STATION REPLACEMENT	
ASHTABULA COUNTY	ELECTRICAL - 10 SERIES
	ELECTRICAL- PLAN, NOTES, & 1-LINE

PROJECT NO.	232225
DISCIPLINE	ELECTRICAL
SHEET NAME	10E-01
SHEET	OF
14	15



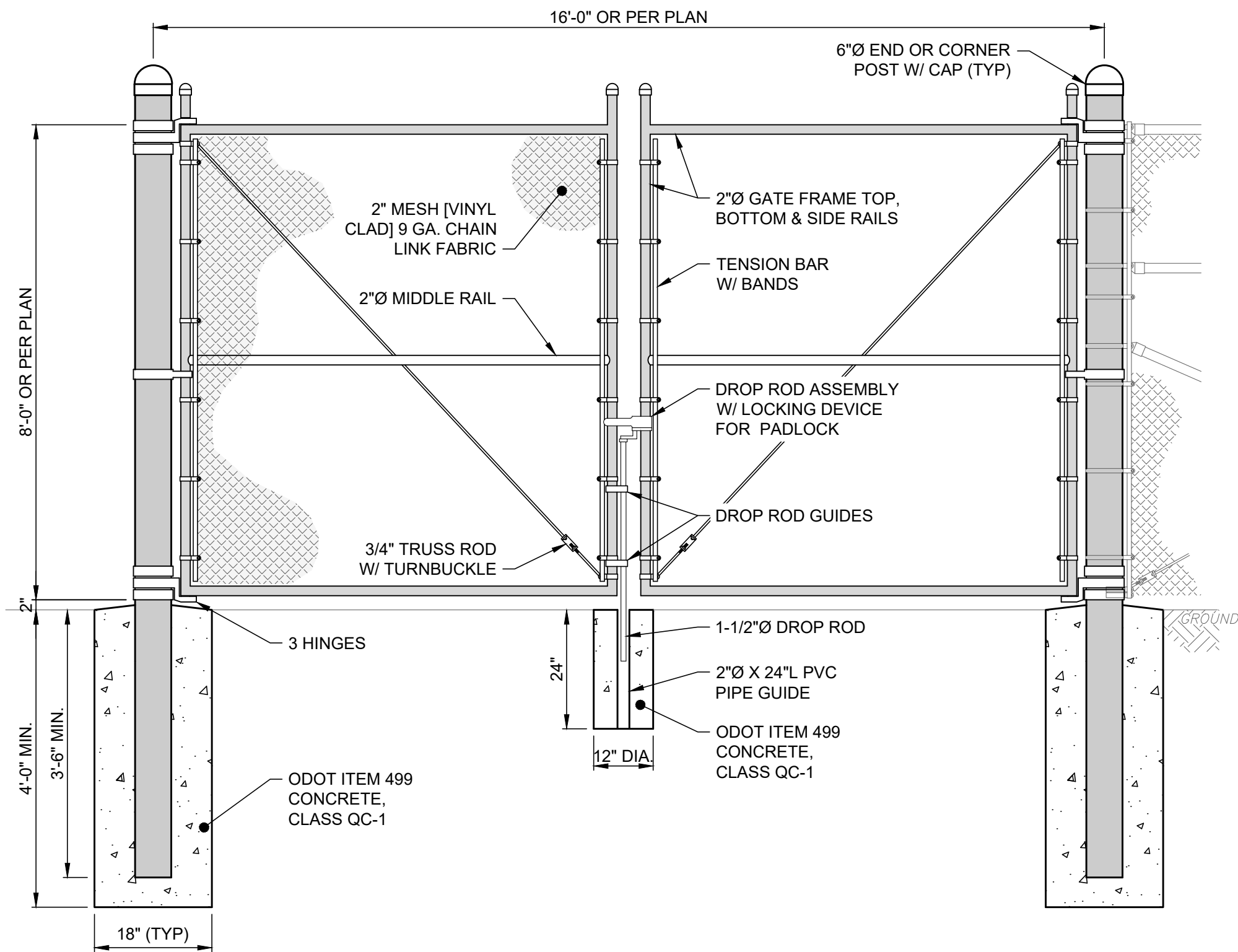
FROST PROOF SLAB DETAIL
NOT TO SCALE



8' CHAIN LINK FENCE DETAIL
SCALE: NONE

NOTES:

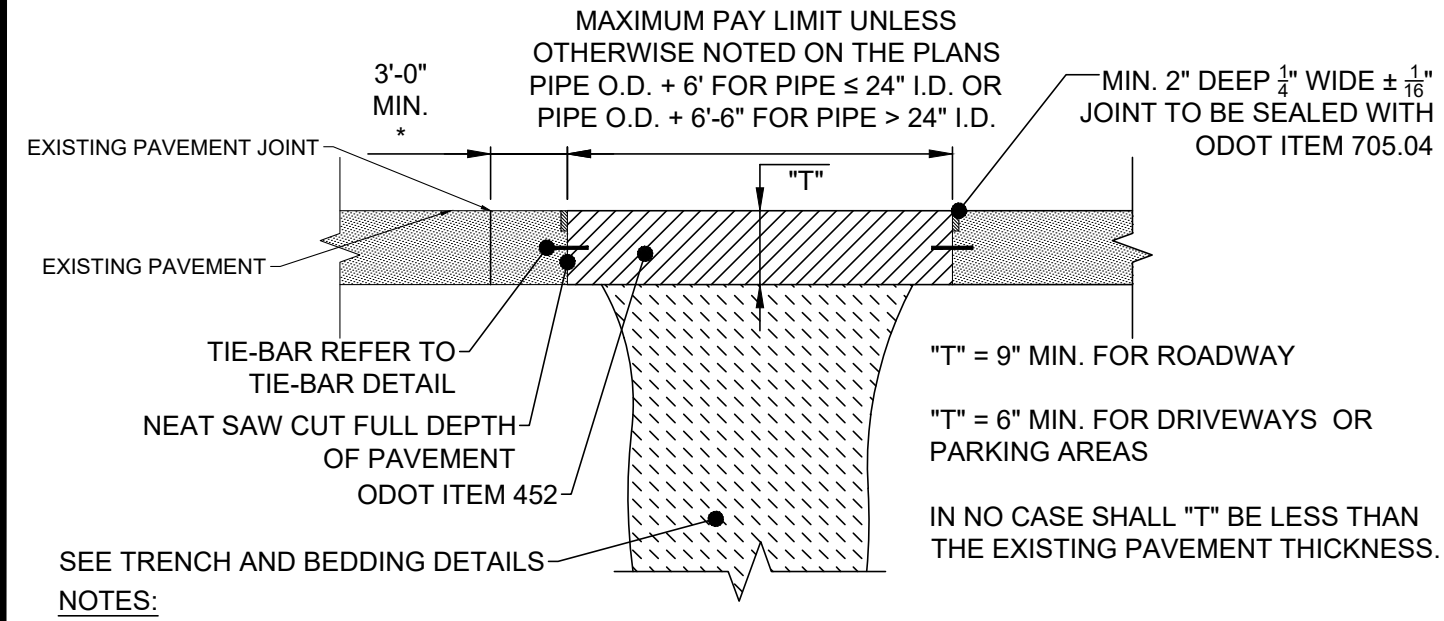
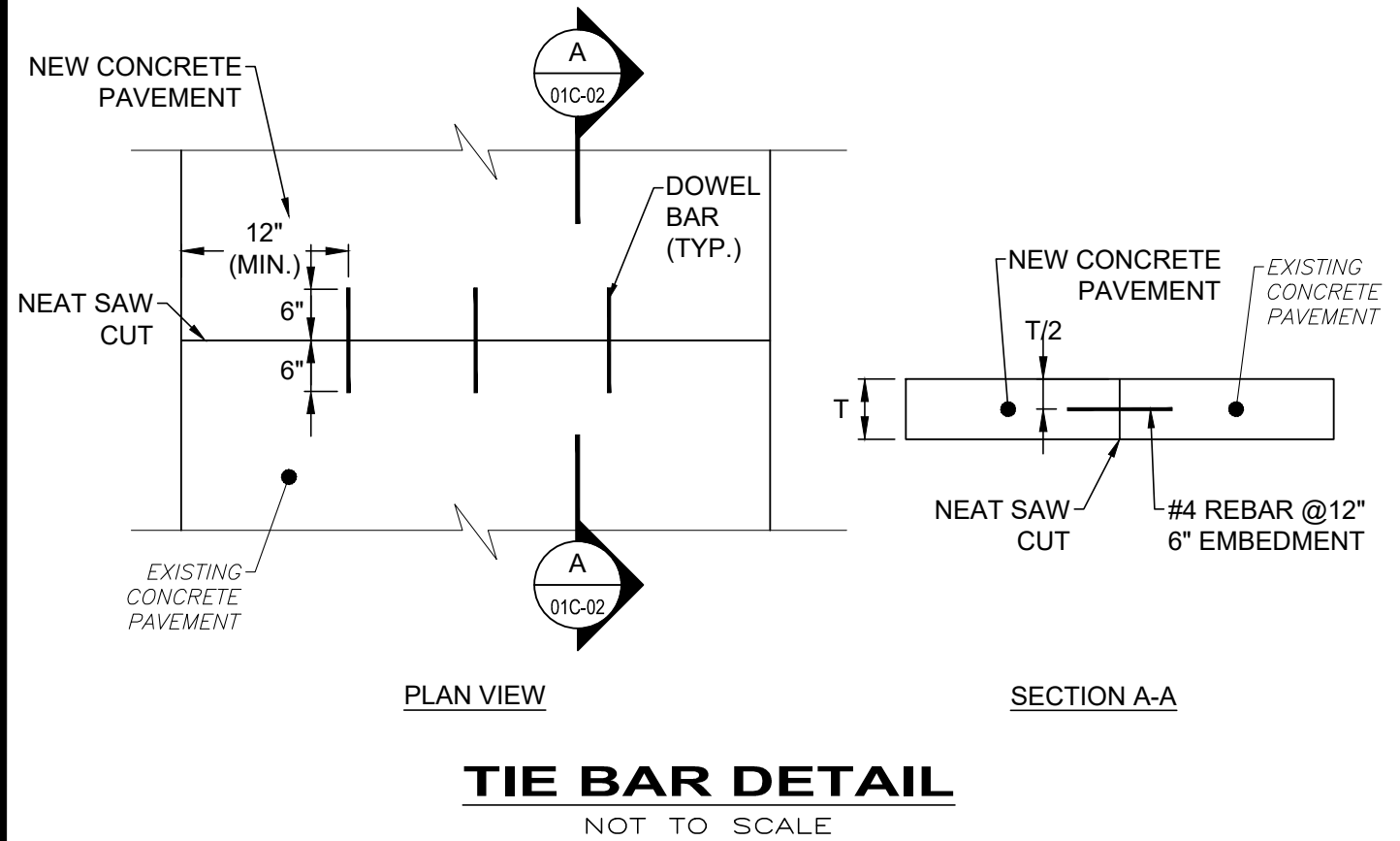
1. POSTS SHALL BE SMOOTH, WATER TIGHT, AND FREE OF BURRS AND SHARP PROJECTIONS FABRICATED FROM SCH. 40 STEEL PIPE PER ASTM A-53.
2. GALVANIZE ALL PIPES AFTER FABRICATION PER ASTM A-123. RE-GALVANIZE AREAS WHERE COATING IS DAMAGED.
3. ALL HARDWARE, CONNECTORS, BOLTS, NUTS, WASHERS, ETC. SHALL BE HOT-DIPPED ZINC COATED GALVANIZED STEEL PER ASTM A653.
4. PLACE FABRIC ON OUTSIDE OF SERVICE AREA [OR INSIDE OF PLAY AREA].
5. ALL POSTS, FABRIC, HARDWARE, CONNECTORS, ETC. SHALL BE PAINTED [BLACK] FOLLOWING THE AMERICAN GALVANIZERS ASSOCIATION (AGA) SPECIFICATIONS. [FINAL COLOR SHALL BE CHOSEN BY OWNER OR ARCHITECT.]



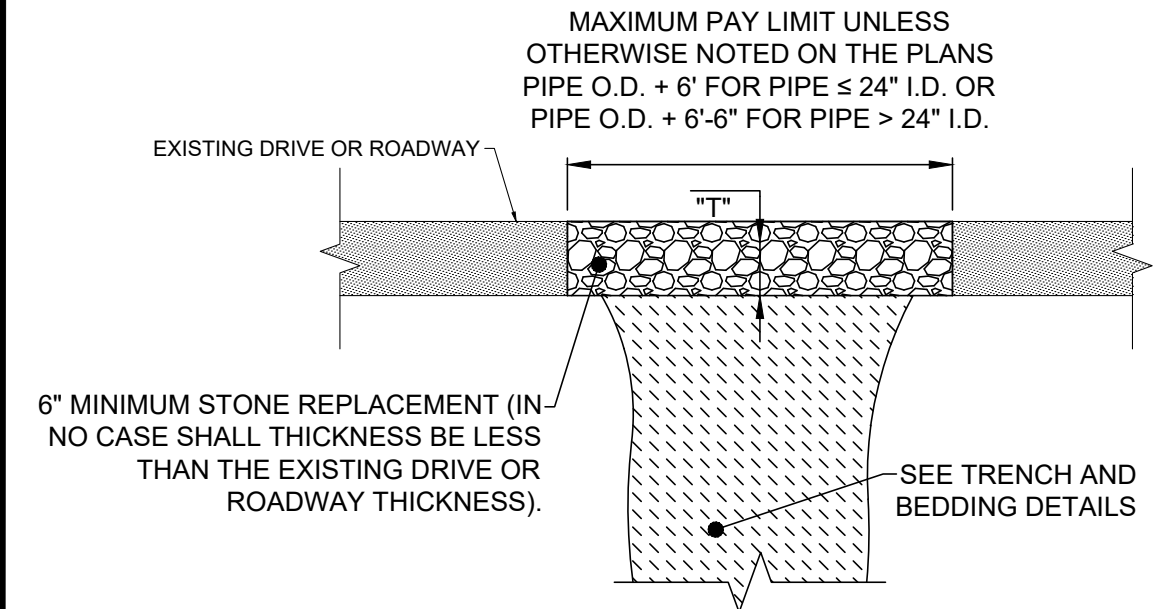
CHAIN LINK FENCE DOUBLE GATE DETAIL
SCALE: NONE

NOTES:

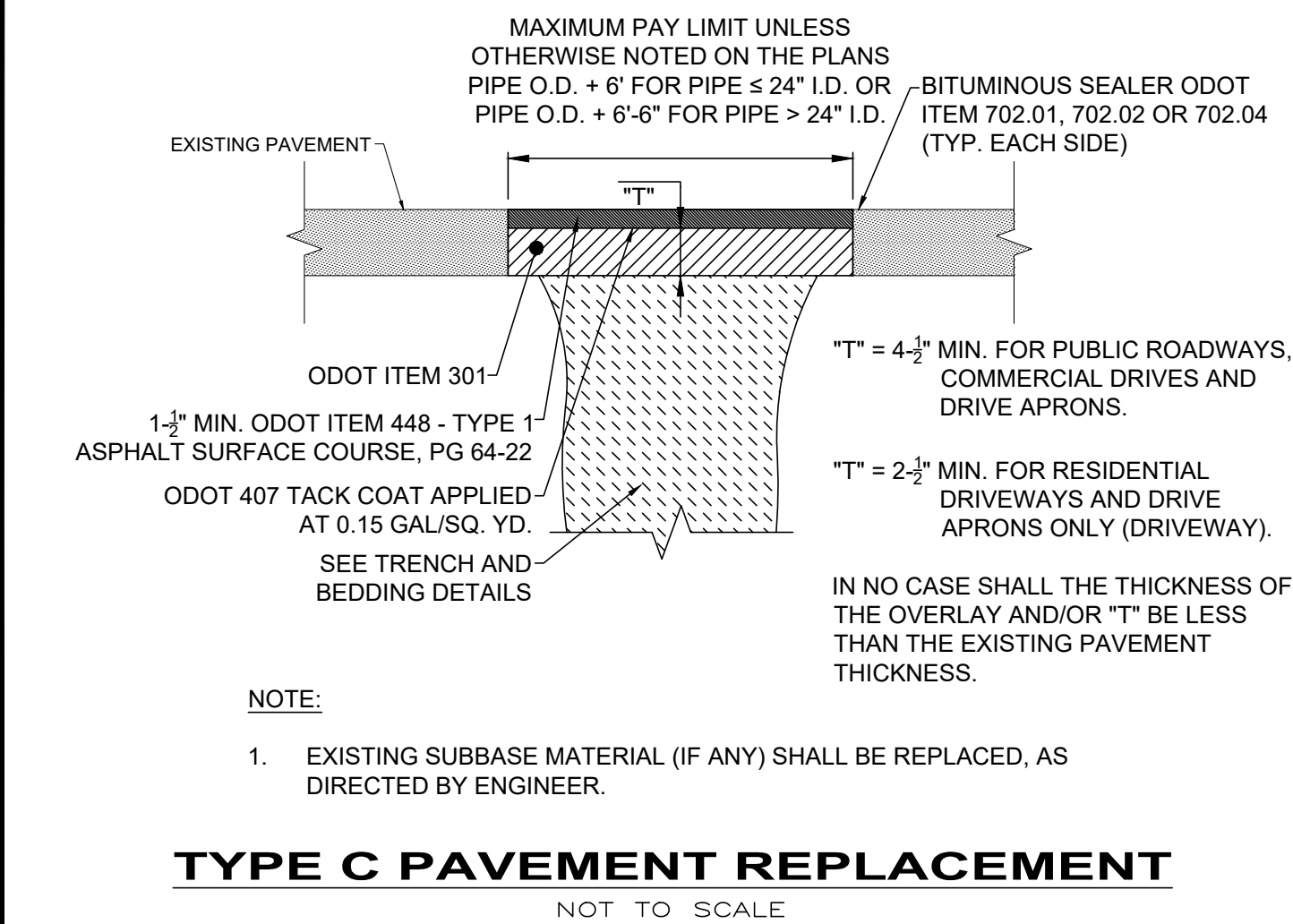
1. POSTS SHALL BE SMOOTH, WATER TIGHT, AND FREE OF BURRS AND SHARP PROJECTIONS FABRICATED FROM SCH. 40 STEEL PIPE PER ASTM A-53.
2. GALVANIZE ALL PIPES AFTER FABRICATION PER ASTM A-123. RE-GALVANIZE AREAS WHERE COATING IS DAMAGED.
3. ALL HARDWARE, CONNECTORS, BOLTS, NUTS, WASHERS, ETC. SHALL BE HOT-DIPPED ZINC COATED GALVANIZED STEEL PER ASTM A653.
4. PLACE FABRIC ON OUTSIDE OF SERVICE AREA [OR INSIDE OF PLAY AREA].
5. CONTRACTOR SHALL SUPPLY LOCK AND LOCK HASP (COORDINATE WITH OWNER THE TYPE).
6. THIS DETAIL IS FOR REFERENCE AND GENERAL DIMENSION CONTROL ONLY; SEE MANUFACTURER'S SPECIFICATIONS FOR ACTUAL DIMENSIONS, CONFIGURATION, PARTS LIST, ETC.



TYPE A PAVEMENT REPLACEMENT
NOT TO SCALE



TYPE F PAVEMENT REPLACEMENT
NOT TO SCALE



TYPE C PAVEMENT REPLACEMENT
NOT TO SCALE

STATE OF OHIO
RYAN S. SCHUSTER
72755
REGISTERED PROFESSIONAL ENGINEER

verdantas

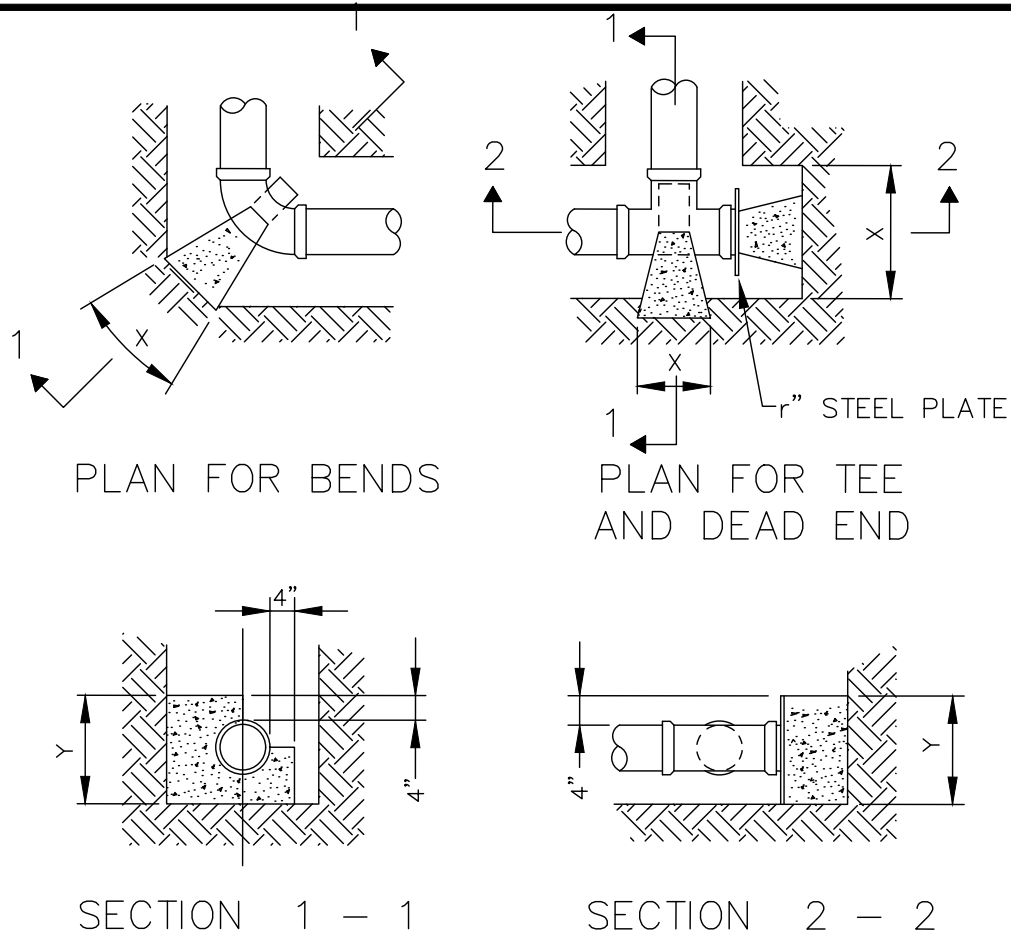
NO	REVISION	DATE

ISSUED FOR:	REVIEW SET	ISSUE DATE:	SCALE:	AS NOTED	DESIGNED BY:	DRAWN BY:	CHECKED BY:
		3/27/26					

ASHTABULA COUNTY	JEFFERSON COUNTY	JEFFERSON, OHIO
JEFFERSON BOOSTER STATION REPLACEMENT		
STANDARD DETAILS - SD SERIES		
1- CONSTRUCTION DETAILS		

PROJECT NO.	
232225	
DISCIPLINE	
CIVIL	
SHEET NAME	
SD-C-01	
SHEET	OF
15	17

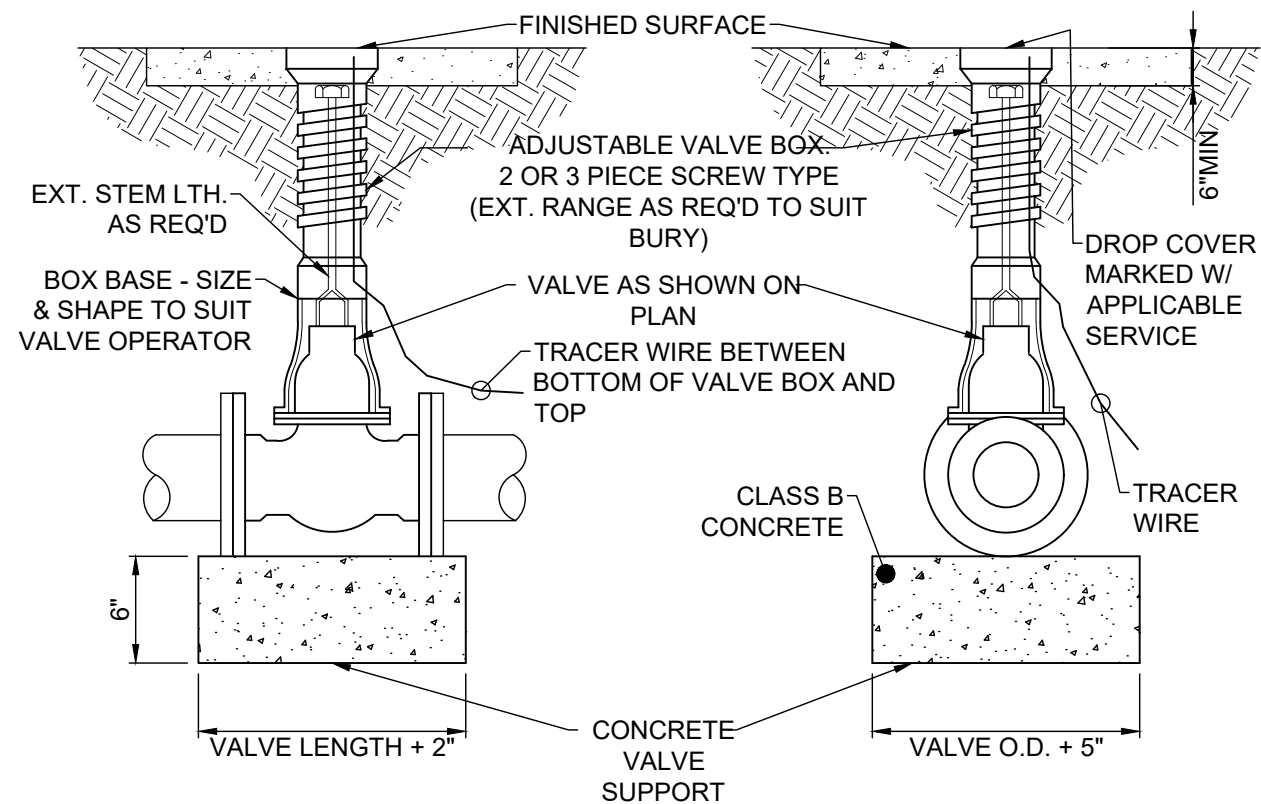
SIZING SCHEDULE				BEARING FACE (X Y) IN SQ. FT. CONCRETE VOLUME IN CU. FT.			
PIPE SIZE	22i" BEND SOIL BEARING CAPACITY			45" BEND SOIL BEARING CAPACITY			
	1000 P.S.F.	3000 P.S.F.	5000 P.S.F.	1000 P.S.F.	3000 P.S.F.	5000 P.S.F.	
4	1.40 0.14	0.46 0.09	0.26 0.06	2.70 0.12	0.90 0.06	0.54 0.06	
6	2.80 1.15	0.93 0.10	0.56 0.07	5.50 0.15	1.83 0.10	1.10 0.07	
8	4.80 0.20	1.60 0.13	0.96 0.09	9.60 0.23	3.20 0.15	1.92 0.09	
10	7.90 0.53	2.63 0.34	1.96 0.22	15.70 0.34	5.23 0.20	3.14 0.13	
12	11.30 0.62	3.76 0.40	2.26 0.26	22.30 0.75	7.43 0.49	4.46 0.32	
14	15.30 0.74	5.10 0.48	3.06 0.31	30.20 0.98	10.06 0.64	6.04 0.42	
16	19.60 1.17	6.60 0.76	3.96 0.49	39.10 1.21	13.03 0.79	7.82 0.51	
	90° BEND SOIL BEARING CAPACITY			TEE OR DEAD END SOIL BEARING CAPACITY			
	1000 P.S.F.	3000 P.S.F.	5000 P.S.F.	1000 P.S.F.	3000 P.S.F.	5000 P.S.F.	
4	4.90 0.14	1.63 0.09	0.96 0.06	3.50 0.12	1.16 0.06	0.70 0.06	
6	10.20 0.22	3.40 0.14	2.04 0.09	7.20 0.17	2.40 0.11	1.44 0.07	
8	17.70 0.35	5.54 0.23	3.54 0.15	12.50 0.25	4.16 0.16	2.50 0.14	
10	28.90 0.54	9.60 0.35	5.76 0.23	20.40 0.36	6.80 0.25	4.06 0.16	
12	41.10 0.85	13.70 0.55	8.22 0.31	29.10 0.97	9.70 0.63	5.82 0.42	
14	55.80 1.70	18.60 1.11	11.16 0.72	39.50 1.22	13.16 0.79	7.90 0.51	
16	72.20 2.14	24.06 1.39	14.44 0.90	51.10 1.54	17.03 1.00	10.22 0.65	



ALL CONCRETE BLOCKING MUST HAVE ITS ENTIRE FACE (X & Y) BEARING SURFACE AGAINST UNDISTURBED SOIL AND ALL VERTICAL NON-BEARING SURFACES SHALL BE FORMED SO AS TO KEEP CONCRETE FROM JOINTS. BLOCKING DESIGN BASED ON COMBINED WORKING PRESSURE PLUS WATER HAMMER OF 240 PSF AND FOR BEARING CAPACITY FOR SAND - 1000 PSF, SAND AND GRAVEL - 3000 PSF, SHALE - 5000 PSF.

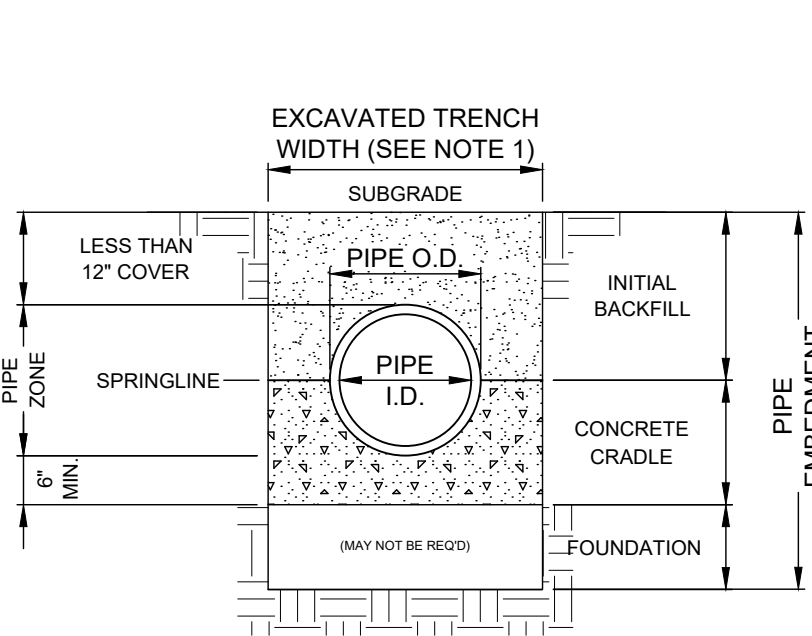
THRUST BLOCKING DETAIL

SD-4-6

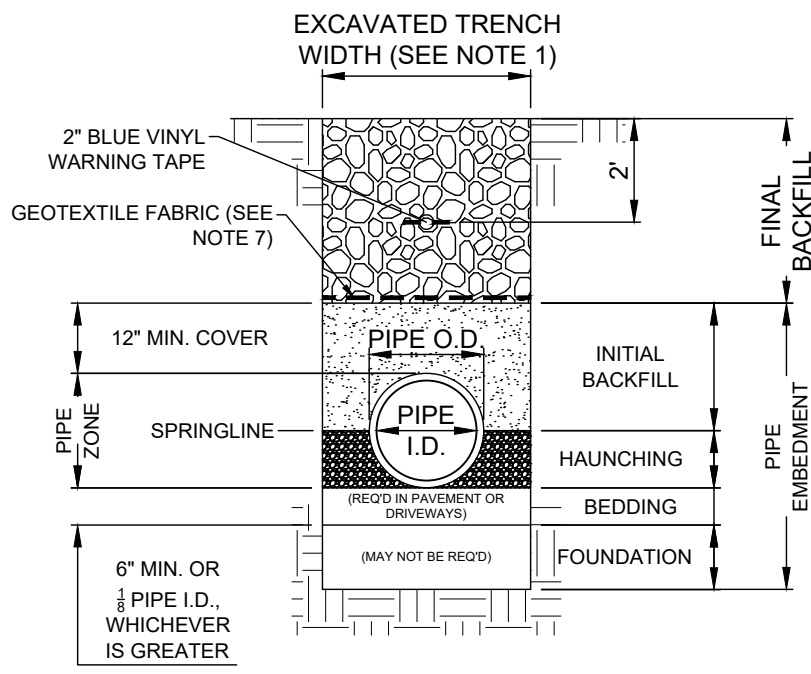


TYPICAL VALVE AND VALVE BOX SETTING

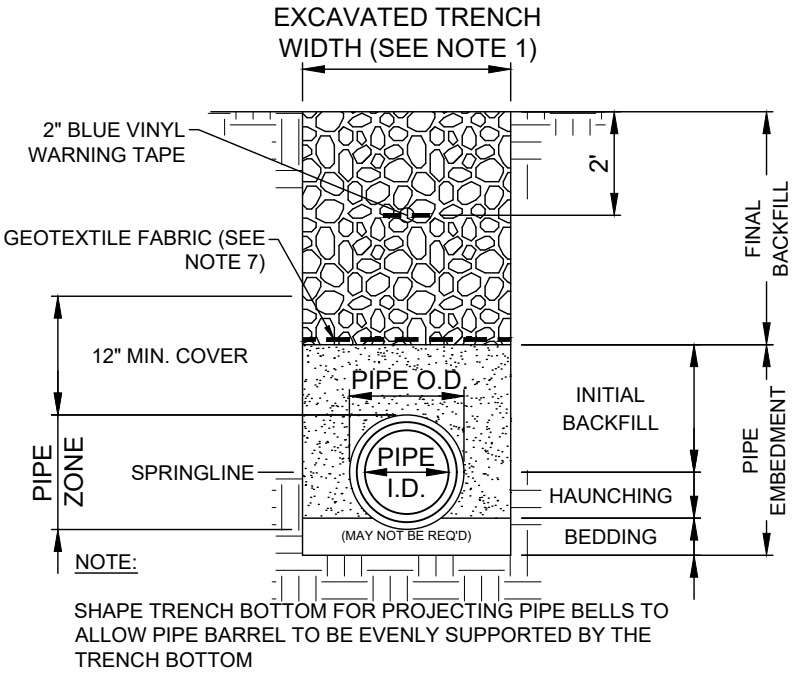
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CLASS 'A' PIPE EMBEDMENT



CLASS 'B' PIPE EMBEDMENT



CLASS 'C' PIPE EMBEDMENT

NOTES:

- MAXIMUM EXCAVATED TRENCH WIDTH: THE MAXIMUM EXCAVATED TRENCH WIDTH FROM THE BOTTOM OF THE TRENCH TO 12" OVER THE TOP OF THE PIPE (WITHIN PIPE EMBEDMENT) SHALL BE O.D. + 24" FOR ALL PIPES UP TO AND INCLUDING 24" I.D. + 30" FOR PIPE FROM 24" I.D. TO 54" I.D. AND O.D. + 48" FOR PIPES SIZES 60" I.D. AND OVER.
- FOUNDATION: WHERE AN UNSTABLE TRENCH BOTTOM CONDITION IS ENCOUNTERED, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH MATERIAL AS DIRECTED BY THE ENGINEER.
- PIPE EMBEDMENT:

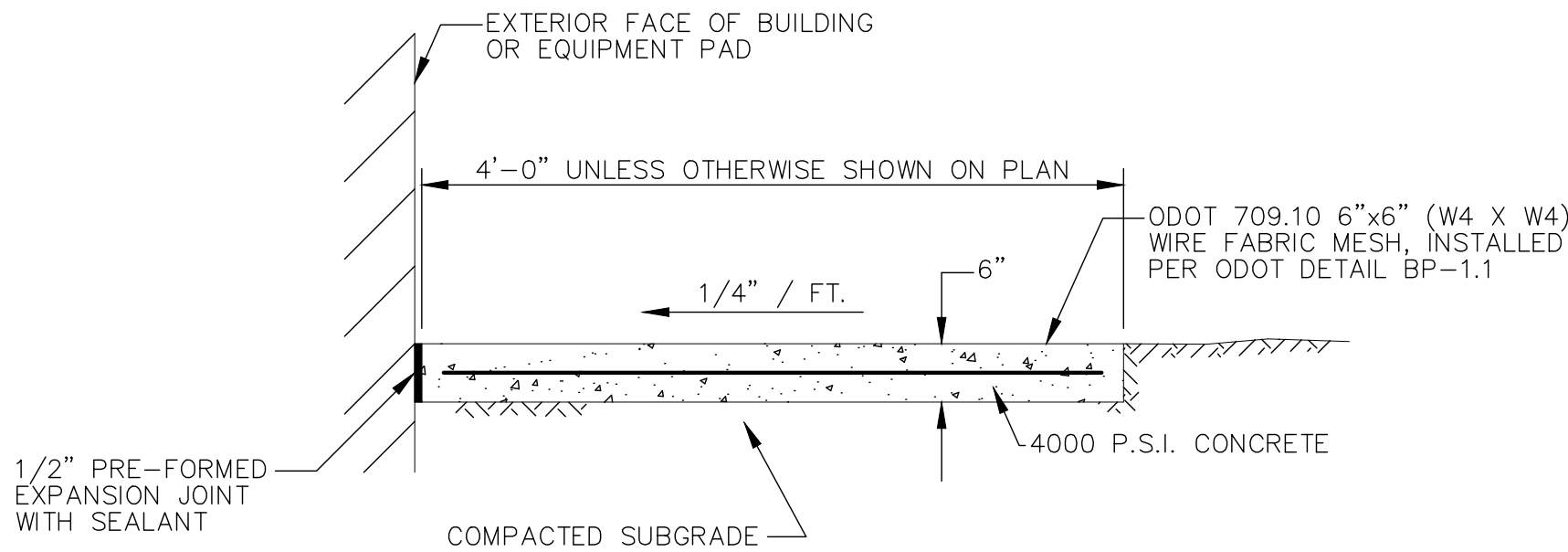
CLASS A: CLASS A PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNDER PAVEMENT OR STRUCTURES WITH LESS THAN 12 INCHES OF PIPE COVER TO THE SUBGRADE. THE CONCRETE CRADLE SHALL BE IN ACCORDANCE WITH ODOT ITEM 499, CLASS "C". THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.

CLASS B: CLASS B PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNLESS OTHERWISE NOTED ON THE PLANS OR AUTHORIZED BY THE ENGINEER. THE BEDDING AND HAUNCHING SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT. IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER FOR ONLY REINFORCED CONCRETE PIPE AND DUCTILE IRON PIPE. THE INITIAL BACKFILL FOR ALL OTHER PIPES SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.

CLASS C: CLASS C PIPE EMBEDMENT SHALL ONLY BE USED FOR DUCTILE IRON WATER MAIN, DUCTILE IRON FORCE MAINS OR AS AUTHORIZED BY THE ENGINEER. THE PIPE EMBEDMENT SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE. WHERE ROCK OR SHALE IS ENCOUNTERED, A MINIMUM 6-INCHES OF AASHTO NO. 57 OR NO. 67 GRANULAR PIPE BEDDING OR SAND BEDDING SHALL BE PLACED AS DIRECTED BY THE ENGINEER.
- FINAL BACKFILL: IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE THE FINAL BACKFILL SHALL BE SPECIAL BACKFILL MATERIAL. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE FINAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER.
- SPECIFICATIONS: ALL TRENCHING, PIPE EMBEDMENT AND BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH SPECIFICATION 02300CT - EARTHWORK.
- GEOTEXTILE FABRIC: INSTALL A GEOTEXTILE FABRIC IN ACCORDANCE WITH ODOT 712.09, TYPE A. AFTER ALL INITIAL BACKFILL CONSISTING OF AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.
- TRACER WIRE: INSTALL TRACER WIRE AND DETECTABLE WARNING TAPE ABOVE UTILITIES, 24" BELOW FINISHED GRADE, EXCEPT 6 INCHES BELOW SUBGRADE UNDER PAVEMENT AND SLABS.
- FOR PIPES UNDER PRESSURE, THE PIPE EMBEDMENT SHALL BE IN ACCORDANCE WITH ODOT 703.06 NATURAL SAND.

TRENCHING, EMBEDMENT, AND BACKFILL DETAIL

NOT TO SCALE



TYPICAL SIDEWALK DETAIL

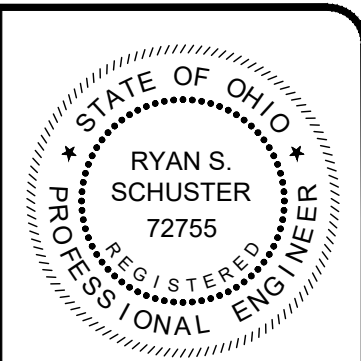
8/89

N.T.S.

SD-5-22

NOTES:

SIDEWALK SHALL BE SLOPED 1/4" /FT. SLOPE SHALL BE SLOPED AWAY FROM BUILDINGS AND EQUIPMENT PADS.



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DATE	REVISION	NO	ISSUED FOR:	REVIEW SET
			3/27/26	AS NOTED
			SCALE	MLB
			DESIGNED BY:	JBB
			DRAWN BY:	RSS
			CHECKED BY:	

ASHTABULA COUNTY	JEFFERSON, OHIO
JEFFERSON BOOSTER STATION REPLACEMENT	STANDARD DETAILS - SD SERIES
ASHTABULA COUNTY	2- CONSTRUCTION DETAILS

PROJECT NO.	232225
DISCIPLINE	CIVIL
SHEET NAME	SD-C-02
SHEET	16
OF	17

GENERAL NOTES TO CONTRACTOR:

- ALL MATERIALS DISPOSED OF OFF-SITE MUST BE DISPOSED OF IN AN ENVIRONMENTALLY SOUND FASHION. DISPOSING OF DEBRIS ON PRIVATE PROPERTY AND/OR ON AN UNAPPROVED LANDFILL IS NOT ACCEPTABLE.
- PROVIDE SOIL EROSION BARRIERS AS REQUIRED FOR CONSTRUCTION, AS SPECIFIED AND AS DETAILED IN THESE PLANS.
- ALL EROSION AND SEDIMENTATION CONTROL FACILITIES SHALL BE INSPECTED WEEKLY.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

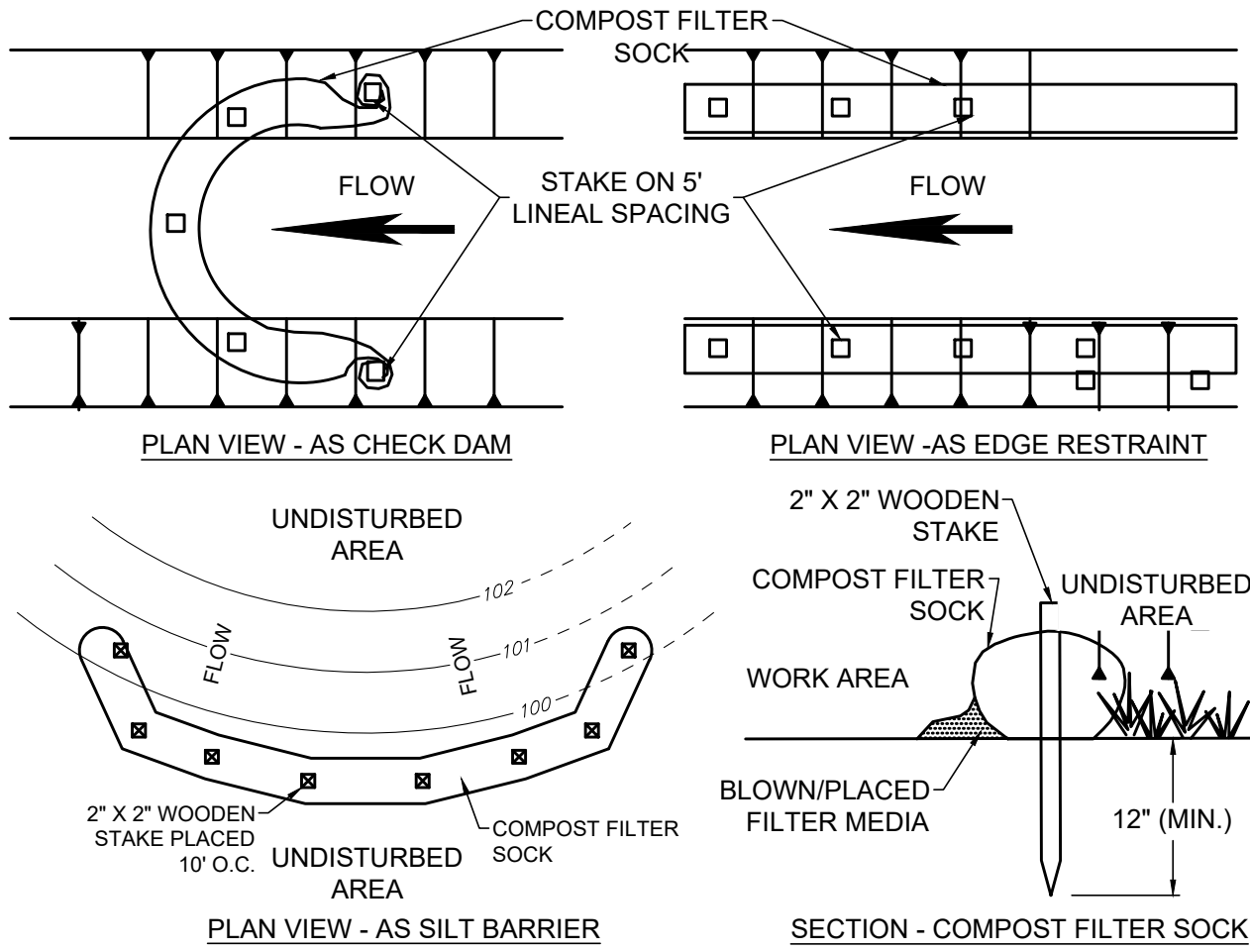
- EROSION CONTROL SHALL CONSIST OF TEMPORARY CONTROL MEASURES AS DETAILED ON THE PLANS OR ORDERED BY THE GOVERNING AGENCY DURING THE LIFE OF THE CONTRACT TO CONTROL SOIL EROSION AND SEDIMENTATION THROUGH USE OF EROSION CONTROL BEST MANAGEMENT PRACTICES (BMP'S).
- TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS, THE LOCATION AND SIZE OF WHICH ARE DETAILED ON THE PLANS, SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORK OPERATIONS. CONDITIONS THAT DEVELOP DURING CONSTRUCTION THAT WERE NOT FORESEEN DURING DESIGN STAGE THAT REQUIRE ADDITIONAL OR MODIFIED TEMPORARY OR PERMANENT BMP'S SHALL BE APPROVED BY THE ENGINEER.
- SEDIMENT PONDS, SEDIMENT TRAPS, AND PERIMETER SEDIMENT CONTROLS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING. THEY SHALL CONTINUE TO FUNCTION UNTIL DISTURBED AREAS ARE RE-ESTABLISHED. NO SEDIMENT CONTROLS SHALL BE PLACED IN A STREAM.
- TRENCH DEWATERING OR DEWATERING GROUND WATER WHICH CONTAINS SEDIMENT SHALL PASS THROUGH AN EFFECTIVE SEDIMENT CONTROL DEVICE. THIS MAY INCLUDE DEWATERING INTO SUMP PIT, FILTER BAG, OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATER SHALL NOT BE DISCHARGED TO STREAMS OR THE STORM SEWER SYSTEM. SEE ENVIRONMENTAL GUIDELINES AND REQUIREMENTS FOR ADDITIONAL STORAGE, TESTING, AND DISPOSAL REQUIREMENTS PRIOR TO DISCHARGING/RELEASING DEWATERING FLOWS.
- CEMENT WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. ALL WASH WATER SHALL BE COLLECTED IN AN APPROVED, DESIGNATED CONTAINER PROVIDED BY THE CONTRACTOR, AND PLACED IN THE DESIGNATED LOCATIONS.
- CONTRACTOR SHALL PREVENT CONSTRUCTION WASTE, DEBRIS, SEDIMENT TRANSPORT, INADVERTENT RETURNS FROM ENTERING WATER WAYS, RIVERS, CREEKS ETC.
- CONTAINERS SHALL BE PROVIDED FOR COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM PRODUCTS AND ANY HAZARDOUS MATERIALS TO BE USED ON-SITE. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL.
- THESE NOTES AND DRAWINGS ARE INTENDED TO SERVE AS BASIC GUIDELINES. ALL EROSION CONTROL PRACTICES SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE ODNr RAINWATER AND LAND DEVELOPMENT MANUAL.
- ADDITIONAL EROSION CONTROL BMP'S MAY BE MANDATED BY THE GOVERNING AGENCY AT ANY TIME DURING THIS PROJECT AS UNFORESEEN SITUATIONS MAY ARISE THAT WARRANT FURTHER EROSION AND SEDIMENT CONTROL PRACTICES.

EROSION/SEDIMENT/DUST CONTROL PRACTICES:

- STOCKPILED TOPSOIL AND EXCAVATED MATERIAL IS TO BE PROTECTED THROUGH THE USE OF TEMPORARY SEEDING OR COVERED WITH ANCHORED STRAW MULCH.
- FINAL GRADING WILL BE CONSISTENT WITH PRE-CONSTRUCTION TOPOGRAPHY TO MAINTAIN DRAINAGE AND AESTHETICS.
- REMOVE ONLY THOSE TREES, SHRUBS, AND GRASSES THAT MUST BE REMOVED TO PERMIT ACTUAL CONSTRUCTION: PROTECT THE REMAINING TO PRESERVE THEIR AESTHETIC AND EROSION CONTROL VALUE.
- DISTURBED LAND SHALL BE TEMPORARILY STABILIZED BY SEEDING AND/OR MULCHING.
- BACKFILL TRENCHES IMMEDIATELY AFTER EXCAVATION. SEED AND MULCH TRENCHES WITHIN TWO WEEKS AFTER TRENCHES ARE BACKFILLED.
- SILT FROM CONSTRUCTION OPERATIONS SHALL NOT BE PERMITTED TO ENTER THE STORM DRAIN SYSTEM. FOR CONSTRUCTION OCCURRING NEAR STORM DRAIN INLETS, EROSION CONTROL MEASURES, SUCH AS SILT FENCES, ROCK CHECKS, SEDIMENT BASINS, ETC., SHALL BE USED TO PREVENT SILT FROM ENTERING THE STORM DRAIN.

CONTAMINATED SOILS:

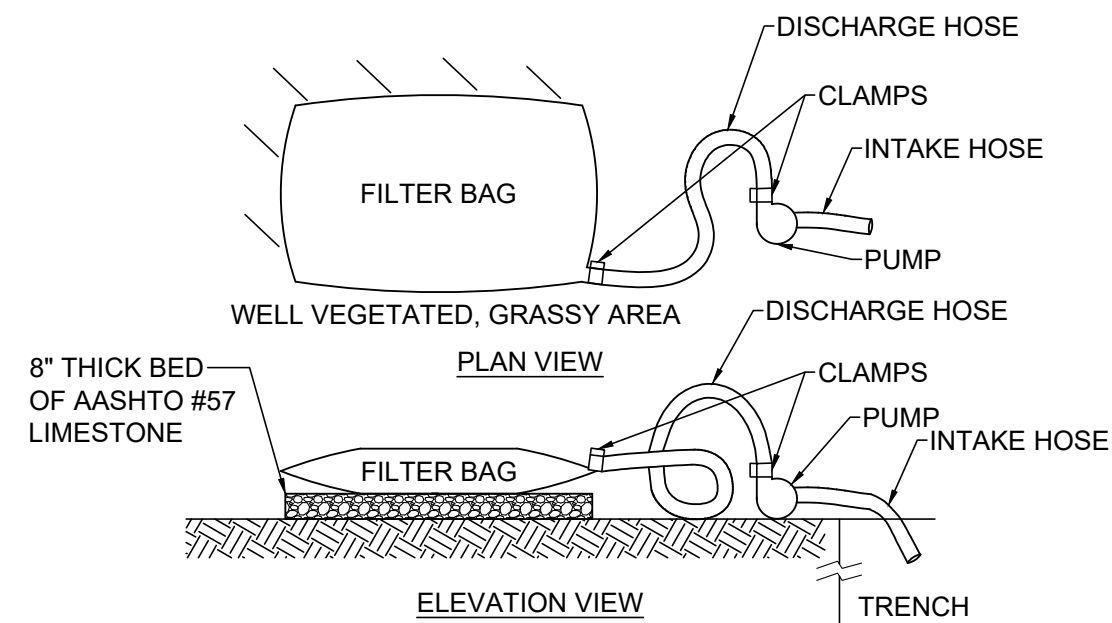
- IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF AT LICENSED SANITARY LAND FILL OR OTHER APPROVED PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY. (NOT A CONSTRUCTION/DEMOLITION DEBRIS LANDFILL). NOTE THAT STORM WATER RUN OFF ASSOCIATED WITH CONTAMINATED SOILS ARE NOT AUTHORIZED UNDER OHIO EPA'S GENERAL STORM WATER PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- OPEN BURNING IS NOT ALLOWED.



NOTES:

- THIS PROJECT REQUIRES THE USE OF 8" DIA. COMPOST FILTER SOCK.
- COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8' UP SLOPE AT 45° TO THE MAIN SOCK ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN IN THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL.
- TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCK.
- ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES ½ THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED IN THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL.
- SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
- SOCK FABRIC AND COMPOST SHALL MEET THE STANDARDS OF THE LATEST VERSION OF THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL.
- BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.
- SACKS MAY BE LEFT IN PLACE OR REMOVED. IN THE FORMER CASE, THE SOCK MATERIAL SHALL BE CUT OPEN AND THEN MULCH SPREAD AS A SOIL SUPPLEMENT.

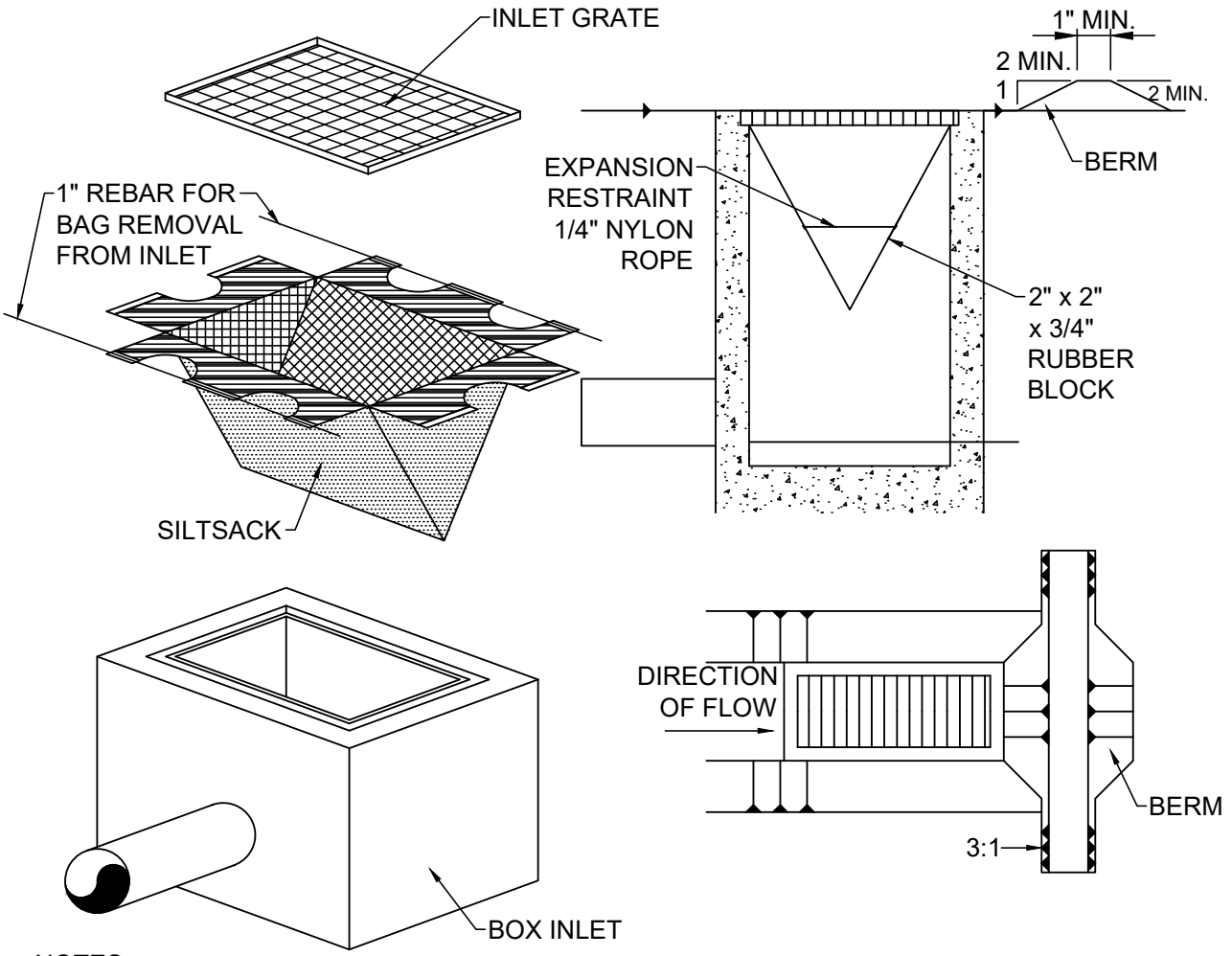
COMPOST FILTER SOCK
NOT TO SCALE



NOTES:

- USE FILTER BAGS MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS, CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.
- A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. REPLACE FILTER BAGS WHEN THEY BECOME 1/2 FULL. KEEP SPARE BAGS AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.
- PLACE BAGS IN WELL-VEGETATED (GRASSY) AREAS, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, PROVIDE A GEOTEXTILE FLOW PATH. DO NOT PLACE BAGS ON SLOPES GREATER THAN 5%.
- INSERT PUMP DISCHARGE HOSE INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.
- THE PUMPING RATE SHOULD BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.
- INSPECT FILTER BAGS DAILY. IF ANY PROBLEM IS DETECTED, CEASE PUMPING IMMEDIATELY AND DO NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

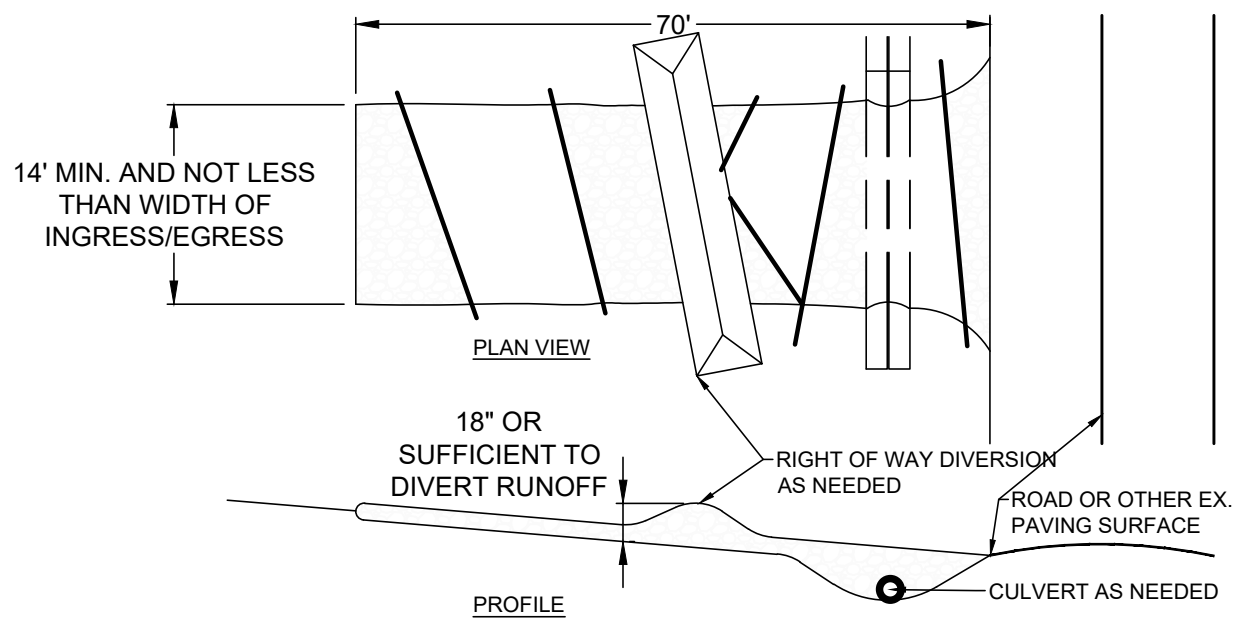
PUMPED WATER FILTER BAG DETAIL
NOT TO SCALE



NOTES:

- MAXIMUM DRAINAGE AREA =1/2 ACRE.
- INLET PROTECTION IS NOT REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP.
- BERMS REQUIRED FOR ALL INSTALLATIONS.
 - EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED.
 - ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED.
 - EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR TO REMAIN PERMANENTLY.

SILT SACK DETAIL
NOT TO SCALE



NOTES:

- STONE SIZE - ODOT #2 (1.5 - 2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FEET (EXCEPTION: APPLY 30 FEET MINIMUM TO SINGLE RESIDENCE LOTS).
- THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
- WIDTH - THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- GEOTEXTILE - A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-ROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

GEOTEXTILE SPECIFICATION FOR CONSTRUCTION ENTRANCE	
MINIMUM TENSILE STRENGTH	200 LBS
MINIMUM PUNCTURE STRENGTH	80 PSI
MINIMUM TEAR STRENGTH	50 LBS
MINIMUM BURST STRENGTH	320 PSI
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS < 0.6 mm
PERMITTIVITY	1x10-3 cm/sec
- TIMING - THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
- CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCES AND OUT ONTO PAVED SURFACES.
- MAINTENANCE - TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROL'S, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
- REMOVAL - THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

CONSTRUCTION ENTRANCE
NOT TO SCALE

PERMANENT SEED MIX:

TYPE GERMINATION RATE APPLICATION RATE

PERMANENT SEED MIXTURE FOR SLOPES 3:1 AND LESS

50% KENTUCKY BLUEGRASS	85%	1 LBS. PER
20% PERENNIAL RYEGRASS	90%	1250 SF
30% CREEPING RED FESCUE	88%	
98% PURE LIVE SEED		

PERMANENT SEED MIXTURE FOR SLOPES GREATER THAN 3:1

30% ANNUAL RYEGRASS	90%	1 LBS. PER
25% KENTUCKY BLUEGRASS	90%	1000 SF
31% TALL FESCUE	90%	
15% BIRDSFOOT TREFOIL	90%	
15% WHITE CLOVER	90%	
10% CLIMAX TIMOTHY	90%	
5% REDTOP	90%	
98% PURE LIVE SEED	90%	

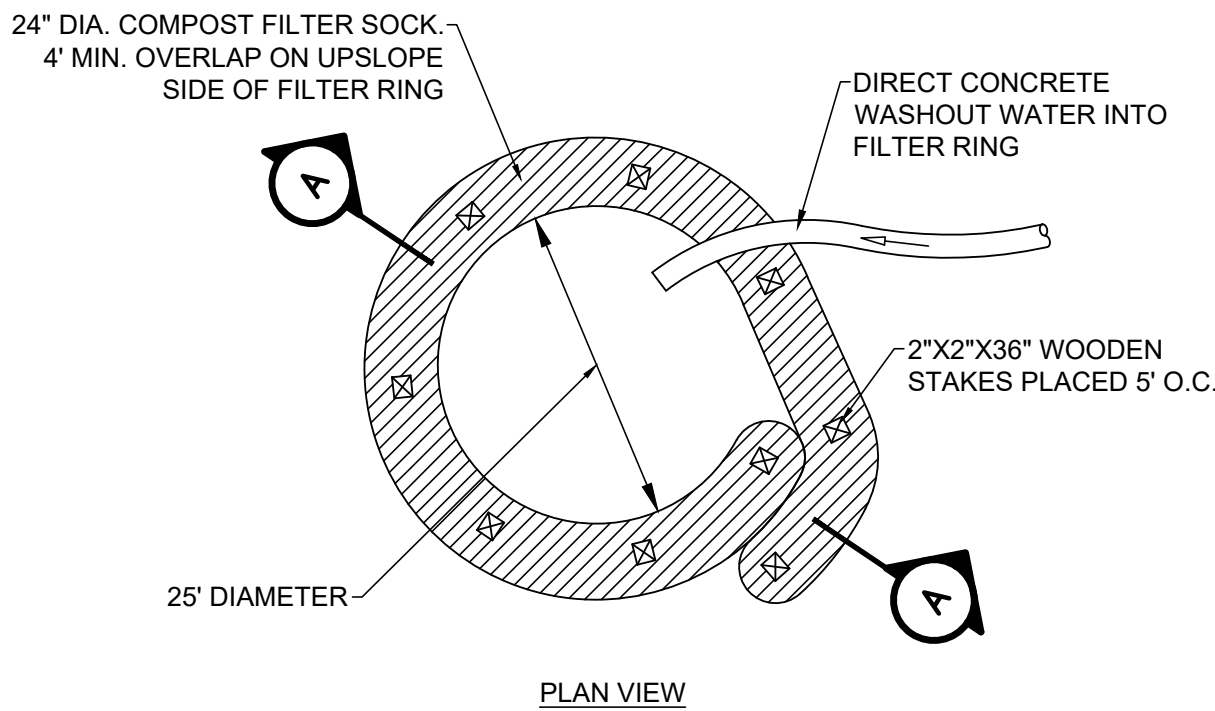
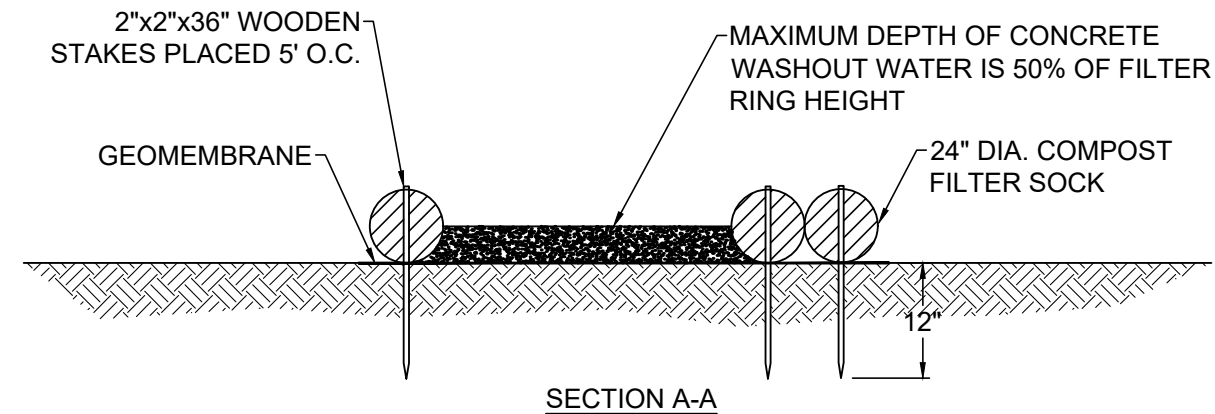
APPLICATION RATE: 100 LB/ACRE
FERTILIZER 10-20-20, APPLICATION RATE: 680 LB/ACRE
LIMING RATE: 2.0 TON/ACRE
MULCH: STRAW - MULCHING RATE: 3.0 TON/ACRE
PROTECT SEED WITH: NAG 575 OR APPROVED SUBSTITUTE
SEEDING SEASONS: MARCH 15 - JUNE 1 & AUG 1 - OCT 15

BIODEGRADABLE EROSION CONTROL MATTING/BLANKET

A TEMPORARY DEGRADABLE ROLLED EROSION CONTROL PRODUCT COMPOSED OF PROCESSED NATURAL FIBERS MECHANICALLY BOUND TOGETHER TO FORM A CONTINUOUS MATRIX. AREAS WITH SLOPES GREATER THAN 3:1 SHALL BE PROTECTED WITH NORTH AMERICAN GREEN S75BN EROSION CONTROL BLANKET (ECB) OR APPROVED SUBSTITUTE.

TEMPORARY SEED MIX:

SPECIES: ANNUAL RYE
% PURE LIVE SEED: 98%
APPLICATION RATE: 50 LB/ACRE
FERTILIZER: 10-20-20
FERTILIZER APPLICATION RATE: 680 LB/ACRE
LIMING RATE: 2.0 TON/ACRE
MULCH: STRAW
MULCHING RATE: 3.0 TON/ACRE



NOTES:

- PROVIDE PROPER SIGNAGE FOR CONCRETE DELIVERY VEHICLE DRIVERS SO THAT THEY ARE AWARE OF THE PRESENCE OF WASHOUT FACILITIES.
- WASHOUT FACILITIES SHOULD NOT BE PLACED WITHIN 50' OF STORM DRAINS, OPEN DITCHES, OR SURFACE WATERS. UNDER NO CIRCUMSTANCES SHOULD WASH WATER BE ALLOWED TO ENTER ANY SURFACE WATERS.
- WHEREVER POSSIBLE, CONCRETE WASHOUTS SHOULD BE LOCATED ON SLOPES NOT EXCEEDING A 2% GRADE.
- A SUITABLE IMPERVIOUS GEOMEMBRANE SHOULD BE PLACED AT THE LOCATION OF THE WASHOUT. COMPOST SOCKS SHOULD BE STAKED IN THE MANNER RECOMMENDED BY THE MANUFACTURER AROUND PERIMETER OF THE GEOMEMBRANE SO AS TO FORM A RING WITHIN THE ENDS OF THE SOCK LOCATED AT THE UPSLOPE CORNER. CARE MUST BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE GEOMEMBRANE AT ALL LOCATIONS. WHERE NECESSARY, 18" SOCKS MAY BE STACKED ONTO 24" SOCKS AND STAKED SO AS TO FORM A TRIANGULAR CROSS SECTION.

TYPICAL COMPOST SOCK WASHOUT
INSTALLATION DETAIL
NOT TO SCALE



verdantas

DATE	REVISION	NO	ISSUED FOR	REVIEW SET	ISSUE DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
					3/27/26	AS NOTED	MLB	JBB	RSS

ASHTABULA COUNTY	JEFFERSON, OHIO
JEFFERSON BOOSTER STATION REPLACEMENT	ASHTABULA COUNTY
STANDARD DETAILS - SD SERIES	3- CONSTRUCTION DETAILS

PROJECT NO.	232225
DISCIPLINE	CIVIL
SHEET NAME	SD-C-03
SHEET	OF
17	17