

**RESOLUTION APPROVING THE DETAILED CONSTRUCTION PLANS FOR PHASE II OF THE SOUTH RIVER ROAD WATERLINE IMPROVEMENT PROJECT, HARPERSFIELD TOWNSHIP**

WHEREAS, Doug Starkey, Director of the Ashtabula County Department of Environmental Services, has presented detailed construction plans prepared by CT Consultants, and approved by Ashtabula County Sanitary Engineer, for the South River Rd Waterline Extension Phase II Project, Harpersfield Township; and

WHEREAS, The project description is as follows:

The project is phase II of the South River Rd waterline where new water main will be extended from Stoltz Road to Virant Family Winery, Debonne Vineyards and Brandt Road, Harpersfield Township, in Ashtabula County.

WHEREAS, Doug Starkey, Director of ACDES, is authorized after plan approval to submit signed drawings to OEPA for PTI; Permit to Install; and

WHEREAS, Doug Starkey, Director of ACDES, recommends approval of these plans; now

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

**Section 1.** The detailed construction plans for Phase II of the South River Rd Waterline Improvement Project in Harpersfield Township are hereby approved.

**Section 2.** Those 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. 2024-300**

**June 11, 2024**

**RESOLUTION APPROVING DETAILED CONSTRUCTION PLANS FOR PHASE II OF  
THE SOUTH RIVER ROAD WATERLINE IMPROVEMENT PROJECT,  
HARPERSFIELD TOWNSHIP**

**Upon the motion of Casey R. Kozlowski, seconded by J.P. Ducro IV.**

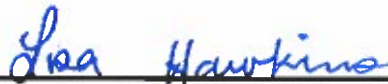
**VOTE:**

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

**Absent  
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.



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

# ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES

## SOUTH RIVER ROAD WATERLINE EXTENSION PHASE 2

### HARPERSFIELD TOWNSHIP AND MADISON TOWNSHIP

MAY 2024

**OHIO 811 DESIGN SERIAL NUMBER & UTILITY LIST:**

XX - STATE ROUTE 534

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

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

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

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

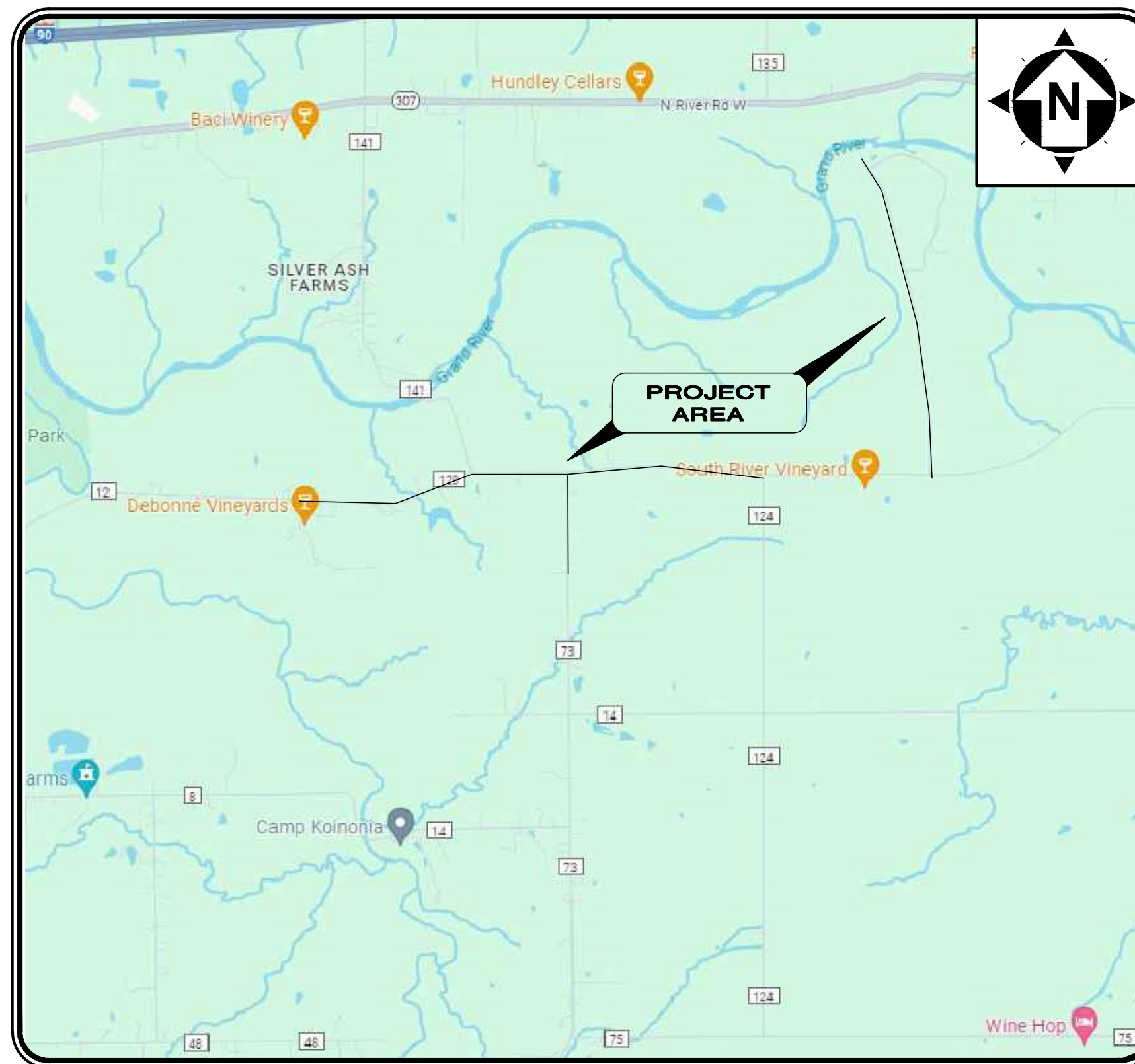
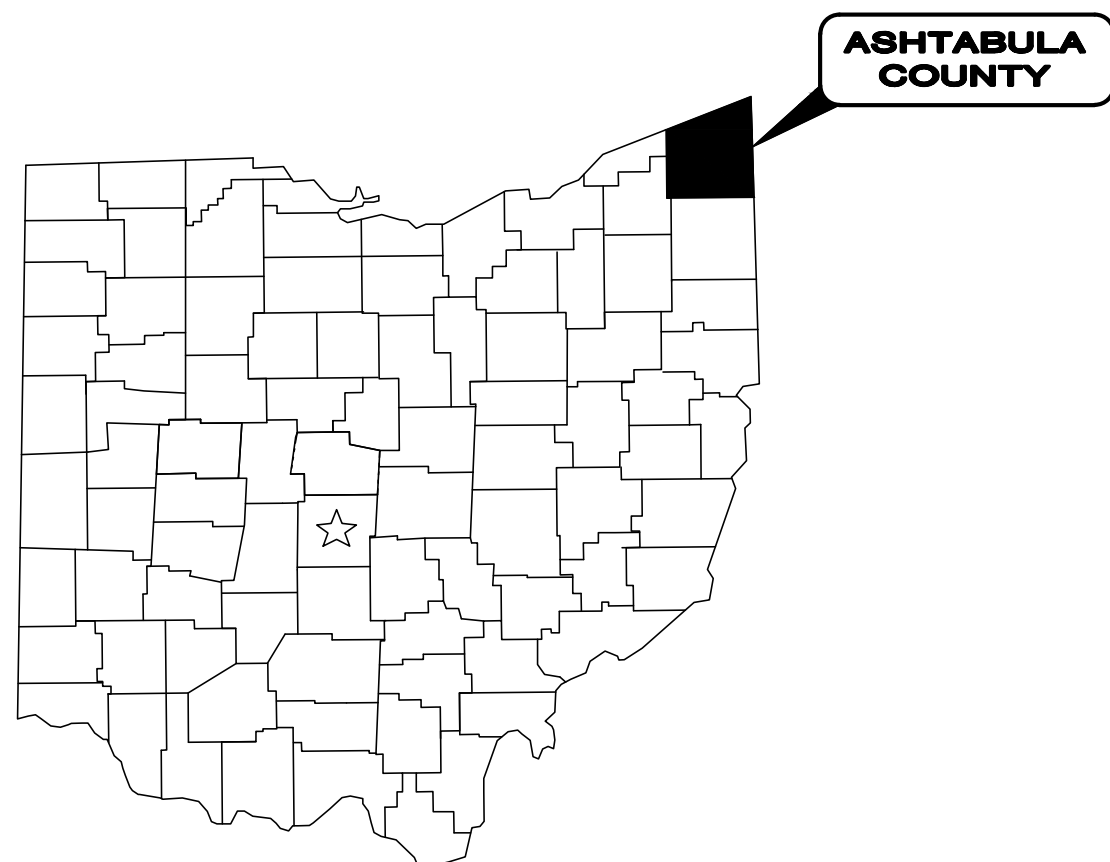
SPRINT:  
PO BOX 3555  
MANSFIELD, OHIO 44907  
(800) 786-6272

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



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.



**LOCATION MAP**  
NOT TO SCALE

**ASHTABULA COUNTY APPROVALS:**

COUNTY COMMISSIONER	DATE
KATHRYN L. WHITTINGTON	
CASEY R. KOZLOWSKI	
J.P. DUCRO IV	
DOUG STARKEY	

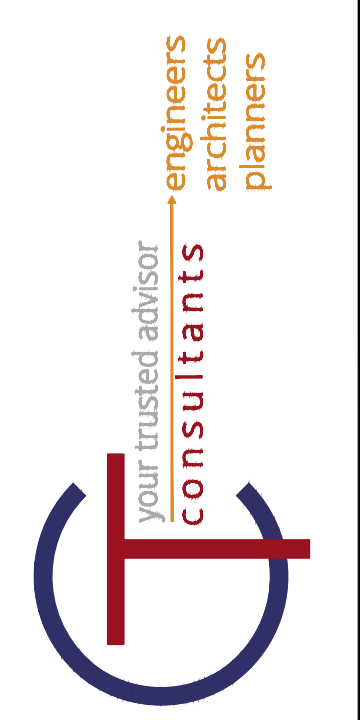
**ENGINEER/ARCHITECT:**

CT CONSULTANTS, INC.  
8150 STERLING COURT  
MENTOR, OH 44060

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

GEORGIA CONWAY  
P.E. No. E-85401

DATE



NO	REVISION	DATE

ISSUED FOR: REVIEW SET  
ISSUE DATE: 04/17/2024  
SCALE: AS NOTED  
DESIGNED BY: MLB  
DRAWN BY: MLB  
CHECKED BY: GBC

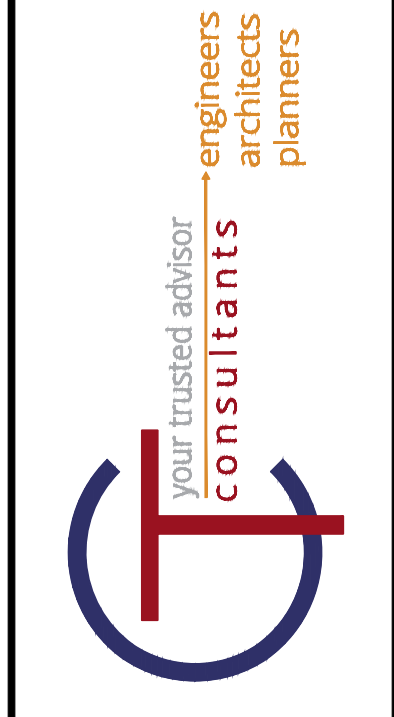
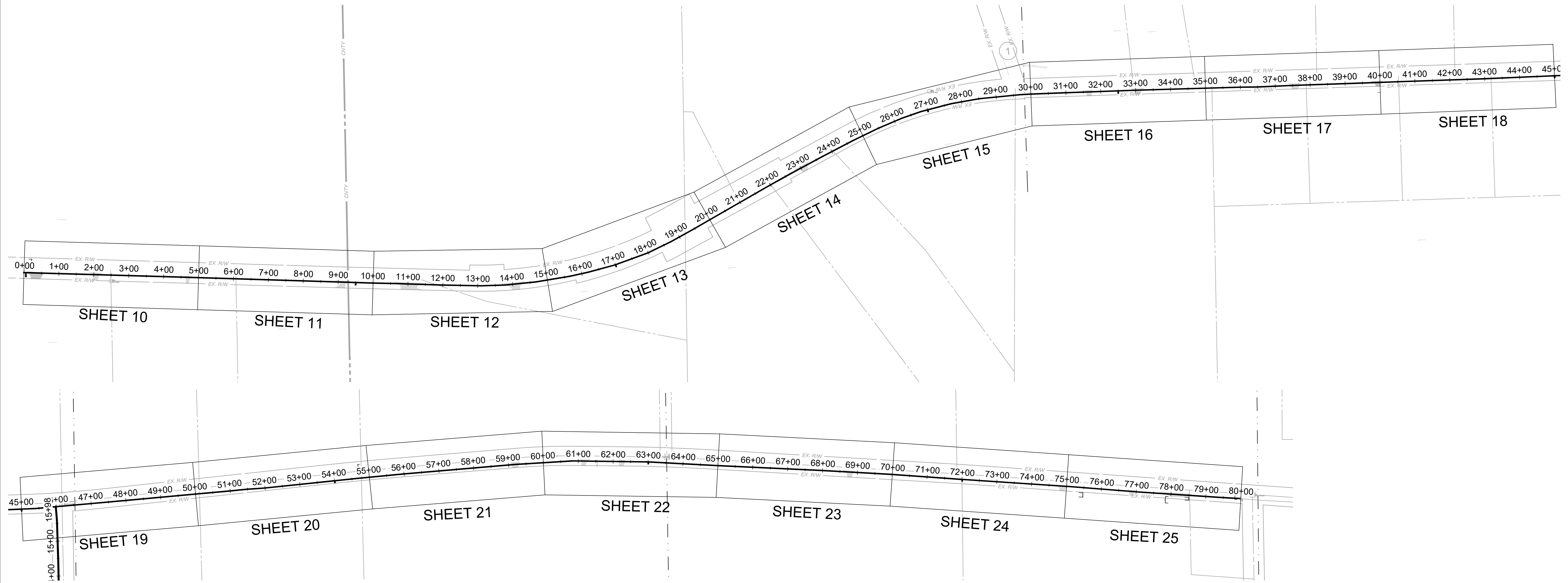
ASHTABULA COUNTY	
SOUTH RIVER ROAD WATERLINE EXTENSION	
HARPERSFIELD, OHIO	
ASHTABULA COUNTY	GENERAL - 00 SERIES
	COVER SHEET
PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	00G-01
SHEET	OF
1	39



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.



ENGINEER'S PROJECT No. 241222

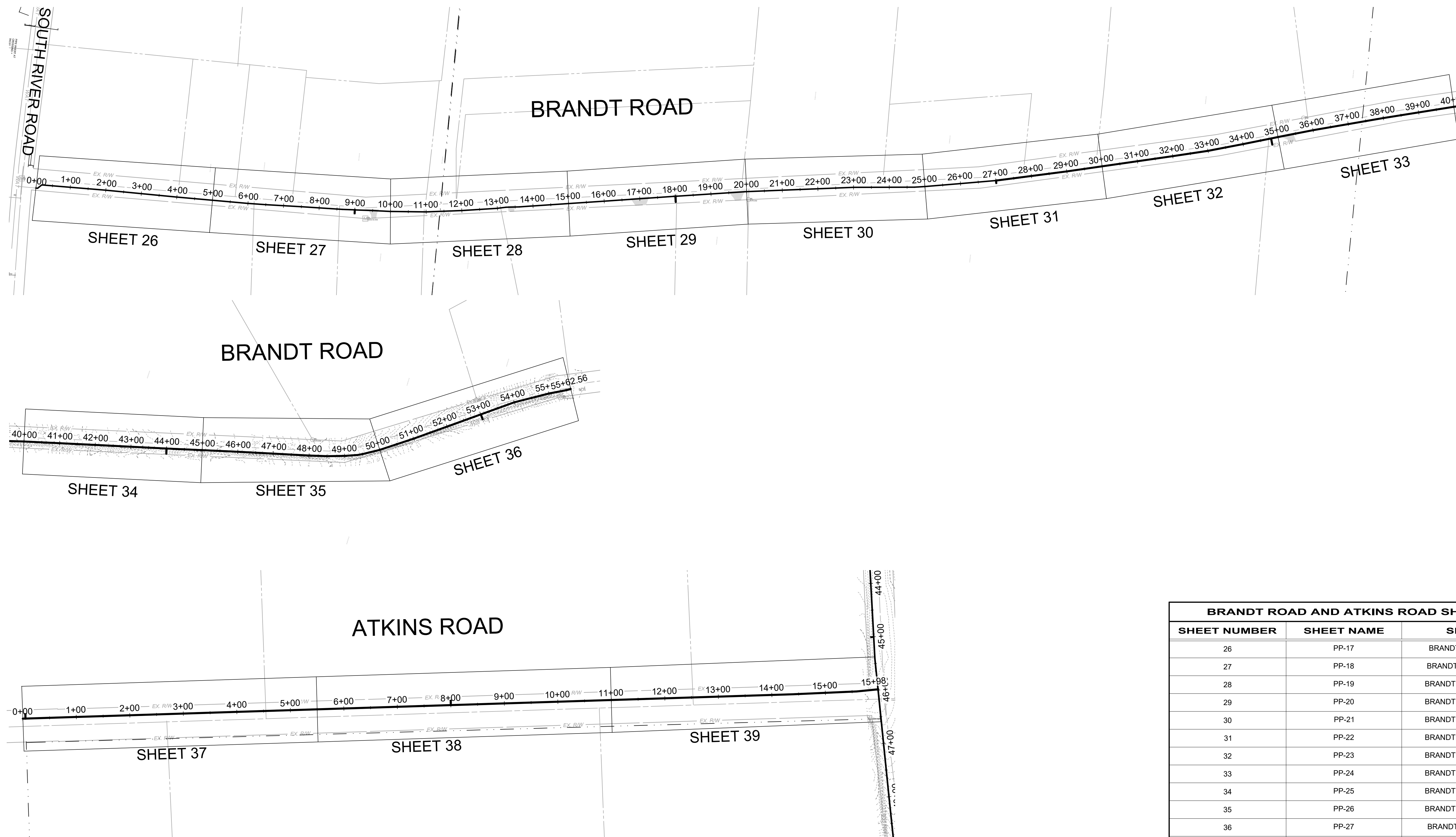


ISSUED FOR:	REVIEW SET	NO	REVISION	DATE
ISSUE DATE: 04/17/2024	AS NOTED			
SCALE:	MLB			
DESIGNED BY:	MLB			
DRAWN BY:	MLB			
CHECKED BY:	GBC			

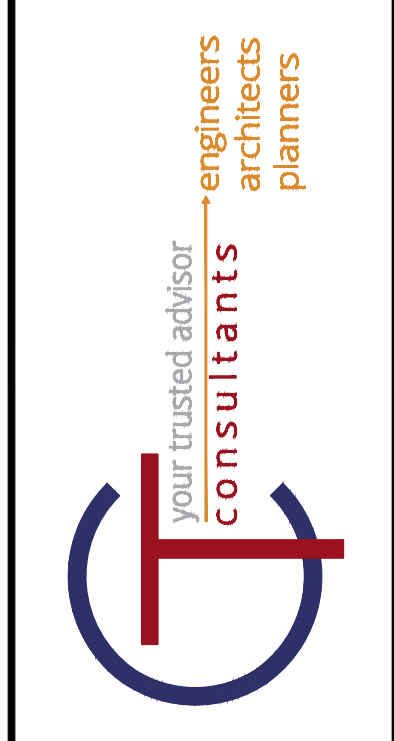
SOUTH RIVER ROAD SHEET INDEX		
SHEET NUMBER	SHEET NAME	SHEET TITLE
10	PP-01	S. RIVER RD. STA 0+00 TO 5+00
11	PP-02	S. RIVER RD. STA 5+00 TO 10+00
12	PP-03	S. RIVER RD. STA 10+00 TO 15+00
13	PP-04	S. RIVER RD. STA 15+00 TO 20+00
14	PP-05	S. RIVER RD. STA 20+00 TO 25+00
15	PP-06	S. RIVER RD. STA 25+00 TO 30+00
16	PP-07	S. RIVER RD. STA 30+00 TO 35+00
17	PP-08	S. RIVER RD. STA 35+00 TO 40+00
18	PP-09	S. RIVER RD. STA 40+00 TO 45+00
19	PP-10	S. RIVER RD. STA 45+00 TO 50+00
20	PP-11	S. RIVER RD. STA 50+00 TO 55+00
21	PP-12	S. RIVER RD. STA 55+00 TO 60+00
22	PP-13	S. RIVER RD. STA 60+00 TO 65+00
23	PP-14	S. RIVER RD. STA 65+00 TO 70+00
24	PP-15	S. RIVER RD. STA 70+00 TO 75+00
25	PP-16	S. RIVER RD. STA 75+00 TO END

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
**ASHTABULA COUNTY HARPERSFIELD, OHIO**  
**GENERAL - 00 SERIES**  
**SOUTH RIVER ROAD SHEET INDEX**

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	00G-02
SHEET	2
OF	39



BRANDT ROAD AND ATKINS ROAD SHEET INDEX		
SHEET NUMBER	SHEET NAME	SHEET TITLE
26	PP-17	BRANDT RD STA. 0+00 TO 5+00
27	PP-18	BRANDT RD STA. 5+00 TO 10+00
28	PP-19	BRANDT RD STA. 10+00 TO 15+00
29	PP-20	BRANDT RD STA. 15+00 TO 20+00
30	PP-21	BRANDT RD STA. 20+00 TO 25+00
31	PP-22	BRANDT RD STA. 25+00 TO 30+00
32	PP-23	BRANDT RD STA. 30+00 TO 35+00
33	PP-24	BRANDT RD STA. 35+00 TO 40+00
34	PP-25	BRANDT RD STA. 40+00 TO 45+00
35	PP-26	BRANDT RD STA. 45+00 TO 50+00
36	PP-27	BRANDT RD STA. 50+00 TO END
37	PP-28	ATKINS RD STA. 0+00 TO 5+50
38	PP-29	ATKINS RD STA. 5+50 TO 11+00
39	PP-30	ATKINS RD STA. 11+00 TO END



ISSUED FOR:	REVIEW SET	NO	REVISION	DATE
ASHTABULA COUNTY	04/17/2024			
	AS NOTED			
	MLB			
	MLB			
	GBC			

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
**ASHTABULA COUNTY HARPERFILED, OHIO**  
**GENERAL - 00 SERIES**  
**BRANDT ROAD AND ATKINS ROAD SHEET INDEX**

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	00G-03
SHEET	3
OF	39

EXISTING LINETYPES	
FENCE, GENERAL	
FENCE, BARBED WIRE	
FENCE, CHAIN LINK	
FENCE, DECORATIVE	
FENCE, ELECTRIC	
FENCE, VINYL	
FENCE, WOOD	
FENCE, WOVEN WIRE	
CABLE RAIL	
GUARDRAIL	
HANDRAIL	
CABLE T.V., ABANDONED	
CABLE T.V.	
CABLE T.V., OH	
CABLE T.V., UG	
CABLE T.V., SERVICE	
CABLE T.V., SERVICE OH	
CABLE T.V., SERVICE UG	
COMMUNICATION, ABANDONED	
COMMUNICATION	
COMMUNICATION, OH	
COMMUNICATION, UG	
COMMUNICATION, SERVICE	
COMMUNICATION, SERVICE OH	
COMMUNICATION, SERVICE, UG	
ELECTRIC, ABANDONED	
ELECTRIC, DUCT BANK	
ELECTRIC	
ELECTRIC, OH	
ELECTRIC, UG	
ELECTRIC, SERVICE	
ELECTRIC, SERVICE OH	
ELECTRIC, SERVICE, UG	
FIBER OPTIC, ABANDONED	
FIBER OPTIC, DUCT BANK	
FIBER OPTIC	
FIBER OPTIC, OH	
FIBER OPTIC, UG	
FIBER OPTIC, SERVICE	
FIBER OPTIC, SERVICE OH	
FIBER OPTIC, SERVICE, UG	
GAS, ABANDONED	
GAS	
GAS, SERVICE	
SANITARY, ABANDONED	
SANITARY FORCE MAIN	
SANITARY SEWER	
SANITARY LEACH LINE	
SANITARY SEWER, DOUBLE	
SANITARY SEWER, SERVICE	
STORM SEWER, ABANDONED	
STORM CULVERT	
STORM SEWER	
STORM SEWER, DOUBLE	
STORM, ROOF DRAIN	
STORM, UNDERDRAIN	
TELEPHONE, ABANDONED	
TELEPHONE	
TELEPHONE, OH	
TELEPHONE, UG	
TELEPHONE, SERVICE	
TELEPHONE, SERVICE OH	
TELEPHONE, SERVICE, UG	
TRAFFIC, ABANDONED	
TRAFFIC LINE	
TRAFFIC LINE, OH	
TRAFFIC LINE, UG	
TRAFFIC, LOOP WIRE	
TRAFFIC, SPAN WIRE	
WATER LINE, ABANDONED	
WATER LINE	
WATER LINE, DOUBLE	
WATER LINE, SERVICE	

EXISTING LINETYPES	
BRUSH LINE	
BUSH LINE	
TREE LINE	
MAJOR CONTOUR	
MINOR CONTOUR	
WATER EDGE	
COUNTY LINE	
CORPORATION LINE	
ANNEXATION AREA	
SECTION LINE	
TOWNSHIP LINE	
FLOOD PLAIN LIMIT	
WETLAND LIMIT	
FARM LINE	
BOUNDARY LINE	
PROPERTY LINE	
LEASE LINE	
RIGHT-OF-WAY LINE	
RIGHT-OF-WAY C/L	
SURVEY STATIONING	

PROPOSED LINETYPES	
FENCE, GENERAL	
FENCE, BARBED WIRE	
FENCE, CHAIN LINK	
FENCE, DECORATIVE	
FENCE, ELECTRIC	
FENCE, VINYL	
FENCE, WOOD	
FENCE, WOVEN WIRE	
CABLE RAIL	
GUARDRAIL	
HANDRAIL	
ELECTRIC, DUCT BANK	
ELECTRIC, OH	
ELECTRIC, UG	
ELECTRIC, SERVICE OH	
ELECTRIC, SERVICE, UG	
GAS	
GAS, SERVICE	
SANITARY FORCE MAIN	
SANITARY SEWER	
SANITARY LEACH LINE	
SANITARY SEWER, DOUBLE	
SANITARY SEWER, SERVICE	
STORM SEWER	
STORM SEWER, DOUBLE	
STORM, ROOF DRAIN	
STORM, UNDERDRAIN	
WATER LINE	
WATER LINE, DOUBLE	
WATER LINE, SERVICE	
BUSH LINE	
TREE LINE	
MAJOR CONTOUR	
MINOR CONTOUR	
WATER EDGE	
BOUNDARY LINE	
PROPERTY LINE	
EASEMENT LINE	
LEASE LINE	
RIGHT-OF-WAY LINE	
RIGHT-OF-WAY C/L	
PHASE LINE	
TEMPORARY RIGHT-OF-WAY	
WORK LIMIT	
SETBACK	
SURVEY STATIONING	
CONSTRUCTION FENCE	
SILT FENCE	
FILTER FENCE	
FILTER SOCK	

EXISTING SYMBOLS	
SANITARY MANHOLE	
SANITARY CLEANOUT	
SANITARY LINE CAP	
SANITARY LINE PAINT MARKING	
SANITARY STRUCTURE NUMBER	
SANITARY VENT PIPE	
STORM MANHOLE (SOLID LID)	
STORM MANHOLE (OPEN GRATE)	
CURB INLET	
CURB INLET (DOUBLE)	
CATCH BASIN	
CATCH BASIN (ROUND LID)	
CATCH BASIN (DOME)	
CATCH BASIN (SIDE INLET)	
DRAIN	
DOWNSPOUT	
STORM CLEANOUT	
STORM LINE CAP	
STORM ENDWALL	
STORM HEADWALL	
STORM LINE PAINT MARKING	
STORM STRUCTURE NUMBER	
ROCK CHANNEL PROTECTION	
SURFACE DRAINAGE FLOW	
STORM FLOOD ROUTING ARROW	
FIRE HYDRANT	
WATER SIAMESE CONNECTION	
WATER VALVE	
WATER VALVE BOX	
WATER METER	
WATER METER PIT	
WATER LINE REDUCER	
WATER LINE CAP	
WATER LINE PLUG	
WATER LINE PAINT MARKING	
POST INDICATOR VALVE	
WATER MANHOLE	
WATER FLUSHING ASSEMBLY	
WATER FIXTURE	
WATER FITTING (TEE)	
WATER FITTING (CROSS)	
WATER FITTING (45° WYE)	
WATER FITTING (11.25°)	
WATER FITTING (22.50°)	
WATER FITTING (45°)	
WATER FITTING (90°)	
IRRIGATION SPRINKLER HEAD	
IRRIGATION CONTROL BOX	
IRRIGATION BOX	
STEAM MANHOLE	
BOLLARD	
DELINEATOR POST	
PARKING BUMPER BLOCK	
HANDICAP PARKING SYMBOL	
HANDICAP PARKING SYMBOL	
HANDICAP DETECTABLE WARNING	
MAILBOX	
PAPERBOX	
PARKING METER	
GRAVE HEADSTONE	
EX. BARBEQUE GRILL	
FUEL PUMP	
FLAG POLE	
RAISED PAVEMENT MARKER	
GUARDRAIL, CENTER POST	
GUARDRAIL, TERMINAL POST	
GUARDRAIL, BOTTOM POST	
GUARDRAIL, TOP POST	
FENCE POST	
PICNIC TABLE	
BENCH	
DECIDUOUS TREE	
EVERGREEN TREE	
STUMP	
BUSH	
IRON PIN FOUND	
SOLID IRON PIN FOUND	
IRON PIPE FOUND	
DRILL HOLE FOUND	
CHISELED "X" FOUND	
MONUMENT BOX FOUND	
MONUMENT CONCRETE FOUND	
MONUMENT RIGHT-OF-WAY FOUND	
PK NAIL FOUND	
MAG NAIL FOUND	

EXISTING SYMBOLS	
TELEPHONE PAY PHONE	
FIBER OPTIC CABLE MANHOLE	
FIBER OPTIC CABLE PAINT MARKING	
TRAFFIC CONTROL MANHOLE	
TRAFFIC CONTROL BOX	
TRAFFIC CONTROL PAINT MARKING	
TRAFFIC PULL BOX	
TRAFFIC SIGNAL PEDESTAL	
UNKNOWN, PULL BOX	
UNKNOWN, CLEANOUT	
UNKNOWN, MANHOLE	
UNKNOWN, VALVE	
MONITORING WELL	
TEST WELL	
WATER WELL	
SOIL BORING	
SWAMP	
POLE, ELECTRIC	
POLE, TELEPHONE	
POLE, LIGHT	
POLE, LIGHT, DECORATIVE	
POLE, LIGHT-OVERHEAD	
POLE, CABLE TV	
POLE, UTILITY	
POLE, GENERAL	
POLE, TRAFFIC CONTROL	
POLE, GUY	
POLE, BRACE	
POLE, ELECTRIC/TELEPHONE	
POLE, ELECTRIC/CABLE TV	
POLE, ELECTRIC/TELEPHONE/LIGHT	
POLE, ELECTRIC/TELEPHONE/CABLE TV	
POLE, ELEC./TELE./LIGHT/CABLE TV	
POLE, TELEPHONE/LIGHT	
POLE, TELEPHONE/CABLE TV	
SIGN, DOUBLE SIDED	
SIGN, DUAL POST	
SIGN, RAILROAD	
POST	
BOLLARD	
DELINEATOR POST	
PARKING BUMPER BLOCK	
HANDICAP PARKING SYMBOL	
HANDICAP PARKING SYMBOL	
HANDICAP DETECTABLE WARNING	
MAILBOX	
PAPERBOX	
PARKING METER	
GRAVE HEADSTONE	
EX. BARBEQUE GRILL	
FUEL PUMP	
FLAG POLE	
RAISED PAVEMENT MARKER	
GUARDRAIL, CENTER POST	
GUARDRAIL, TERMINAL POST	
GUARDRAIL, BOTTOM POST	
GUARDRAIL, TOP POST	
FENCE POST	
PICNIC TABLE	
BENCH	
DECIDUOUS TREE	
EVERGREEN TREE	
STUMP	
BUSH	
IRON PIN FOUND	
SOLID IRON PIN FOUND	
IRON PIPE FOUND	
DRILL HOLE FOUND	
CHISELED "X" FOUND	
MONUMENT BOX FOUND	
MONUMENT CONCRETE FOUND	
MONUMENT RIGHT-OF-WAY FOUND	
PK NAIL FOUND	
MAG NAIL FOUND	

EXISTING SYMBOLS	
SPIKE FOUND	
HUB FOUND	
AXLE FOUND	
WOOD POST FOUND	
CORNER STONE FOUND	
AERIAL TARGET FOUND	
GPS CONTROL FOUND	
BENCHMARK FOUND	

PROPOSED SYMBOLS	
SANITARY MANHOLE	
SANITARY MANHOLE, ADJUST	
SANITARY CLEANOUT	
SANITARY LINE CAP	
SANITARY STRUCTURE NUMBER	
SANITARY VENT PIPE	
STORM MANHOLE (SOLID GRATE)	
STORM MANHOLE (OPEN GRATE)	
STORM MANHOLE, ADJUST	
CURB INLET	
CURB INLET (DOUBLE)	
CURB INLET, ADJUST	
CURB INLET (DOUBLE), ADJUST	
CATCH BASIN	
CATCH BASIN (SOLID)	
CATCH BASIN, ADJUST	
CATCH BASIN (SIDE INLET)	
DRAIN	
DOWNSPOUT	
STORM CLEANOUT	
STORM LINE CAP	
STORM HEADWALL	
STORM STRUCTURE NUMBER	
ROCK CHANNEL PROTECTION	
SURFACE DRAINAGE FLOW	
SURFACE DRAINAGE FLOW	
STORM FLOOD ROUTING ARROW	
FIRE HYDRANT	
FIRE HYDRANT, ADJUST	
WATER SIAMESE CONNECTION	
WATER VALVE	
WATER VALVE BOX	
WATER METER	
WATER LINE REDUCER	
WATER LINE CAP	
WATER LINE PLUG	
POST INDICATOR VALVE	
WATER MANHOLE	
WATER CORPORATION STOP	
WATER FLUSHING ASSEMBLY	
WATER METER	
GAS LIGHT POST (YARD)	
GAS MANHOLE	
GAS MANHOLE	
GAS VALVE	
GAS METER	
GAS REGULATOR	
GAS VENT PIPE	
ELECTRIC LIGHT (GROUND)	
ELECTRIC LIGHT POST (YARD)	
ELECTRIC MANHOLE	
ELECTRIC MANHOLE, ADJUST	
ELECTRIC PULL BOX	
ELECTRIC CONTROL BOX	
ELECTRIC JUNCTION BOX	
ELECTRIC VAULT BOX	
ELECTRIC METER	
ELECTRIC PEDESTAL	
ELECTRIC TRANSFORMER	
ELECTRIC AIR CONDITION UNIT	
POLE, ELECTRIC	
POLE, TELEPHONE	
POLE, LIGHT	
POLE, LIGHT, DECORATIVE	
POLE, CABLE TV	
POLE, UTILITY	
POLE, GENERAL	

PROPOSED SYMBOLS	
POLE, TRAFFIC CONTROL	
POLE, GUY	
POLE, BRACE	
POLE, ELECTRIC/TELEPHONE	
POLE, ELECTRIC W/LIGHT	
POLE, ELECTRIC/CABLE TV	
POLE, ELEC./TELE./LIGHT	
POLE, ELEC./TELE./CABLE TV	
POLE, ELEC./TELE./LIGHT/CABLE	
POLE, TELEPHONE/LIGHT	
POLE, TELEPHONE/CABLE TV	
POLE, TELE./LIGHT/CABLE TV	
POLE, CABLE TV W/LIGHT	
POLE, FLAG	
GUY WIRE	
POST, SIGN (SINGLE SIDED)	
POST, SIGN (DOUBLE SIDED)	
POST, SIGN (DUAL POST)	
POST (GENERAL)	
BOLLARD	
DELINEATOR POST	
FENCE POST	
PARKING COUNT	
PARKING BUMPER BLOCK	
HANDICAP PARKING SYMBOL	
HANDICAP DETECTABLE WARNING	
MAILBOX	
PAPERBOX	
PARKING METER	
STREET SIGN	
TRAFFIC CONTROL MANHOLE	
TRAFFIC CONT. MANHOLE (ADJ)	
TRAFFIC CONTROL BOX	
TRAFFIC PULL BOX	
TRAFFIC SIGNAL PEDESTAL	
INLET PROTECTION	
STRAW BALE CHECK DAM	
TREE (DECIDUOUS)	
TREE (EVERGREEN)	
BUSH	

ABBREVIATIONS	
ABANDONED	ABAN.
ADJUST	ADJ.

**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 CONCORD TOWNSHIP 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.
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
  - a. 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.
  - b. 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.
  - c. 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, TRICOLORLED 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 BREST 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 AN 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:**

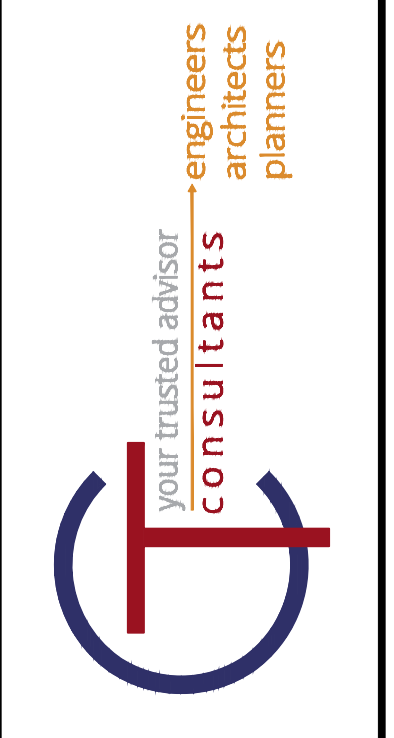
1. CONTRACTORS AND SUBCONTRACTORS SHOULD IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES FOR THE PREVENTION OF DISCHARGE OF HAZARDOUS MATERIALS TO SURFACE AND GROUND WATERS AND THE ENVIRONMENT. ALL SPILLS MUST BE REPORTED TO THE OHIO SPILL LINE (1-800-282-9378 OR 1-614-224-0946) IN ACCORDANCE WITH OAC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



ISSUED FOR:	REVIEW SET	NO	REVISION	DATE
ISSUE DATE:	04/17/2024			
SCALE:	AS NOTED			
DESIGNED BY:	MLB			
DRAWN BY:	MLB			
CHECKED BY:	GBC			

ASHTABULA COUNTY  
 SOUTH RIVER ROAD WATERLINE EXTENSION  
 ASHTABULA COUNTY  
 HARPERFILED, OHIO  
 GENERAL - 00 SERIES  
 GENERAL NOTES

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	00G-05
SHEET	OF
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**ENVIRONMENTAL PROTECTION - PROHIBITED CONSTRUCTION ACTIVITIES:**

- LOCATING STOCKPILE STORAGE AREAS IN ENVIRONMENTALLY SENSITIVE AREAS.
- INDISCRIMINATE, ARBITRARY OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, WETLANDS, SURFACE WATERS OR OUTSIDE THE EASEMENT LIMITS.
- 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.
- 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.
- PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF ANY STREAM.
- DAMAGING ANY VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.
- DISPOSAL OF TREES, BRUSH, AND OTHER DEBRIS IN ANY STREAM CORRIDORS, WETLANDS, SURFACE WATERS OR AT UNSPECIFIED LOCATIONS.
- OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.
- 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.
- 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.
- 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.
- 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:**

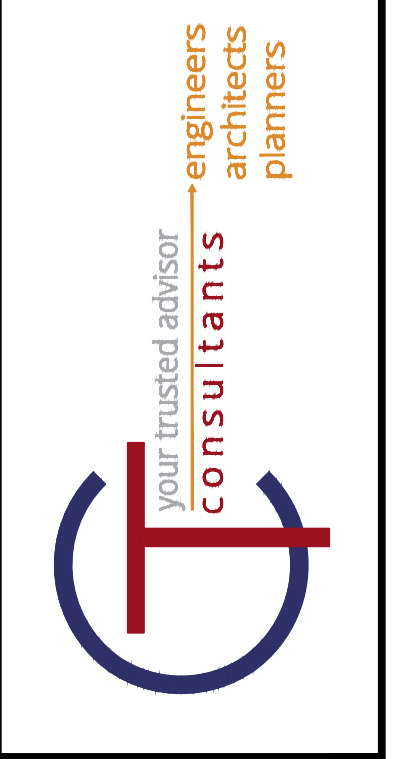
- A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT AND ITEM 614 - TEMPORARY PAVEMENT MARKINGS. ACCESS TO ALL DRIVEWAYS SHALL ALSO BE MAINTAINED AT ALL TIMES EXCEPTING THE TIME WHEN CONCRETE CURB OR DRIVE APRONS ARE CURING.
- 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.
- MAINTAINING TRAFFIC SHALL BE IN ACCORDANCE WITH ODOT CONSTRUCTION & MATERIALS SPECIFICATIONS (CMS) ITEM 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 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.
- 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.

**EXCAVATION, BACKFILL, AND COMPACTION:**

- 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.
- 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 MAIN SPECIFICATIONS & NOTES:**

- WATER MAINS (3" THROUGH 36") SHALL BE PVC AWWA C909.
  - RESTRAINED PUSH-ON JOINTS SHALL BE COMPLETELY BOLTLESS; MCWANE SUPER-LOCK, AMERICAN FLEX-RING, U.S. PIPE TR FLEX, OR AS APPROVED. RESTRAINED MECHANICAL JOINTS SHALL BE MEGALUG AS MANUFACTURED BY EBAA IRON, INC., OR AS APPROVED, OF DUCTILE IRON AND WITH A WORKING PRESSURE OF AT LEAST 250 PSI AND A MINIMUM SAFETY FACTOR OF 2:1. MINIMUM LENGTH OF CUT PIECES OF WATER MAIN THAT MAY BE REUSED IS 5 LF.
- FITTINGS SHALL BE DUCTILE IRON AND MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C153/A21.53 (FOR COMPACT FITTINGS). ALL FITTINGS AND ACCESSORIES SHALL BE FURNISHED WITH MECHANICAL TYPE JOINTS IN ACCORDANCE WITH ANSI/AWWA C111/A21.11.
  - 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.
- POLYETHYLENE ENCASEMENT SHALL BE AN 8 MIL, THICK POLYETHYLENE TUBE MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C105/A21.5. POLYETHYLENE ADHESIVE TAPE, 2" WIDE, SHALL BE USED TO SEAL ALL JOINTS.
- GATE VALVES SHALL BE RESILIENT SEAT, NON-RISING STEM WITH MECHANICAL JOINT TYPE ENDS WHICH MEET THE REQUIREMENTS OF AWWA C509. MECHANICAL JOINT ENDS SHALL COMPLY WITH AWWA C111; EXCEPT FOR TAPPING VALVES. THE OPERATING NUT SHALL BE 2" SQUARE, WHICH OPENS TO THE LEFT. VALVES SHALL COME EQUIPPED WITH A DOUBLE O-RING SEAL STUFFING BOX AND HAVE AN EPOXY COATING ON ALL EXTERIOR SURFACES WHICH COMPLIES WITH AWWA C550.
- VALVE BOXES SHALL BE CAST IRON, TWO PIECE SCREW TYPE, 5/2" DIA. CONFORMING TO ASTM A-126. EACH PIECE SHALL BE COATED, INSIDE AND OUTSIDE WITH A COAL-TAR PITCH VARNISH, SIMILAR TO THAT USED FOR COATING CAST IRON PIPE. HEIGHT RANGE OF BOX ASSEMBLED SHALL BE 36" TO 60". EACH BOX SHALL INCLUDE A CAST IRON LID WITH THE WORD "WATER" CAST INTO THE TOP. ALL VALVE BOXES SHALL INCLUDE ONE 1 1/2" VALVE BOX RISER.
- 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 1/2" NPT BRASS TEST PLUG. MAXIMUM WORKING PRESSURE FOR 4" - 12" SIZES (250 psig) AND FOR 14" - 24" SIZES (200 psig).
- TAPPING VALVES SHALL MEET OR EXCEED ALL APPLICABLE REQUIREMENTS OF ANSI/AWWA C509. THE INLET FLANGE SHALL COMPLY WITH ANSI B16.1 CLASS 125 DRILLING. THE MECHANICAL JOINT OUTLET SHALL COMPLY WITH ANSI/AWWA C111. THE VALVE SHALL HAVE A NON-RISING STEMS (NRS). THE OPERATING NUT SHALL BE 2" SQUARE, WHICH OPENS TO THE LEFT. THE VALVES SHALL COME EQUIPPED WITH A DOUBLE O-RING SEAL STUFFING BOX AND HAVE AN EPOXY COATING ON ALL EXTERIOR SURFACES WHICH COMPLIES WITH AWWA C550.
- 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.
- WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651. COST SHALL BE SUBSIDIARY TO THE INSTALLATION OF WATER MAIN.
- THE PROPOSED WATER SYSTEM SHALL MAINTAIN A MINIMUM STATIC PRESSURE OF 35psi DELIVERED TO THE CURB STOP DURING NORMAL OPERATING CONDITIONS.
- BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS.
- 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.
- THE CONTRACTOR SHALL NOT OPERATE OR TURN ANY EXISTING WATER VALVE. IF VALVES NEED TO BE OPENED OR CLOSED HE SHALL NOTIFY THE COUNTY.
- ALL ROUGH GRADING TO WITHIN SIX (6) INCHES OF FINISH GRADE SHALL BE COMPLETED OVER THE PROPOSED WATER MAIN PRIOR TO ITS INSTALLATION.
- 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.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OHIO UTILITY PROTECTION SERVICE (OUPS) AS REQUIRED BY LAW.
- NO WATERLINE TIE-INS SHALL BE DONE ON FRIDAYS OR THE DAY BEFORE A COUNTY HOLIDAY.
- DEFLECT WATER MAIN AS REQUIRED TO MAINTAIN ALIGNMENT AS SHOWN ON PLANS. MAXIMUM DEFLECTION IS 3 DEGREES PER JOINT.
- TEMPORARY BLOW-OFF AND FLUSHING ASSEMBLY:
  - PIPE SHALL BE TYPE K COPPER WITH COMPRESSION FITTINGS.
  - 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.
  - 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.
  - 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.
  - AT COMPLETION OF TESTING, CLOSE CORPORATION STOP, REMOVE COPPER PIPING AND INSERT PLUG ON CORPORATION STOP.
  - NO SEPARATE PAYMENT SHALL BE MADE FOR TEMPORARY BLOW-OFFS AND FLUSHING ASSEMBLIES.
- FIRE HYDRANTS SHALL BE POST TYPE WITH A BREAKABLE FLANGE DESIGN. THE MAIN VALVE SHALL BE 5 1/2", OPENING LEFT WITH ONE 4 1/2" STEAMER/PUMPER NOZZLE AND TWO 2 1/2" HOSE NOZZLES. ALL WITH NATIONAL STANDARD THREADS UNLESS OTHERWISE SPECIFIED. THE OPENING NUT SHALL BE PENTAGONAL IN SHAPE. HYDRANTS SHALL HAVE A 6" MECHANICAL JOINT TYPE SHOE WITH A 5'-0" BURY DEPTH. HYDRANTS SHALL BE SHIPPED WITH A RED UPPER BARREL, WHITE BONNET, AND CAPS ON ALL NOZZLES MEETING ALL STANDARDS OF AWWA C502.

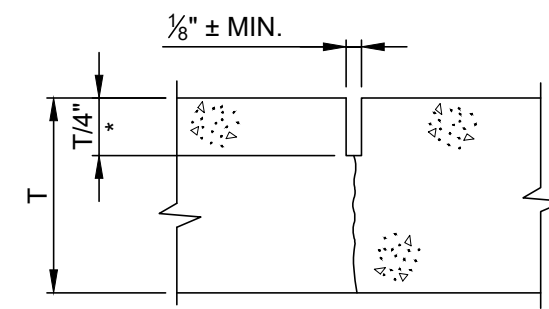


NO	REVISION	DATE

ISSUED FOR:	REVIEW SET	NO	REVISION	DATE
ISSUE DATE:	04/17/2024			
SCALE:	AS NOTED			
DESIGNED BY:	MLB			
DRAWN BY:	MLB			
CHECKED BY:	GBC			

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
**ASHTABULA COUNTY HARPERSFIELD, OHIO**  
**GENERAL - 00 SERIES**  
**GENERAL NOTES**

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	00G-06
SHEET	OF
6	39

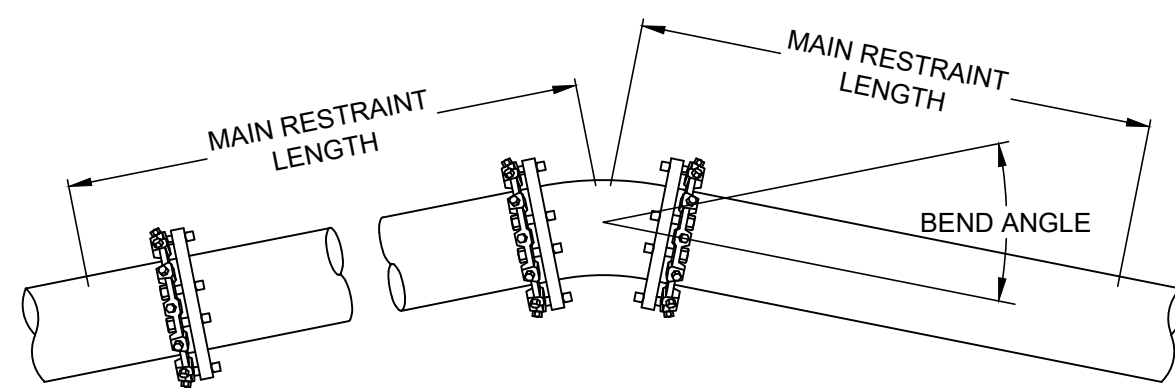


**NOTES:**

- CONTROL JOINTS ARE THAT ARE TOOL CUT SHALL BE FILLED WITH JOINT SEALANT.
- CONTROL JOINT SPACING SHALL EQUAL NEW SIDEWALK WIDTH, ADD ADDITIONAL DIAGONAL JOINTS AS NECESSARY TO CONTROL CRACKING AT ANGLES, BUILDS OR STRUCTURES.

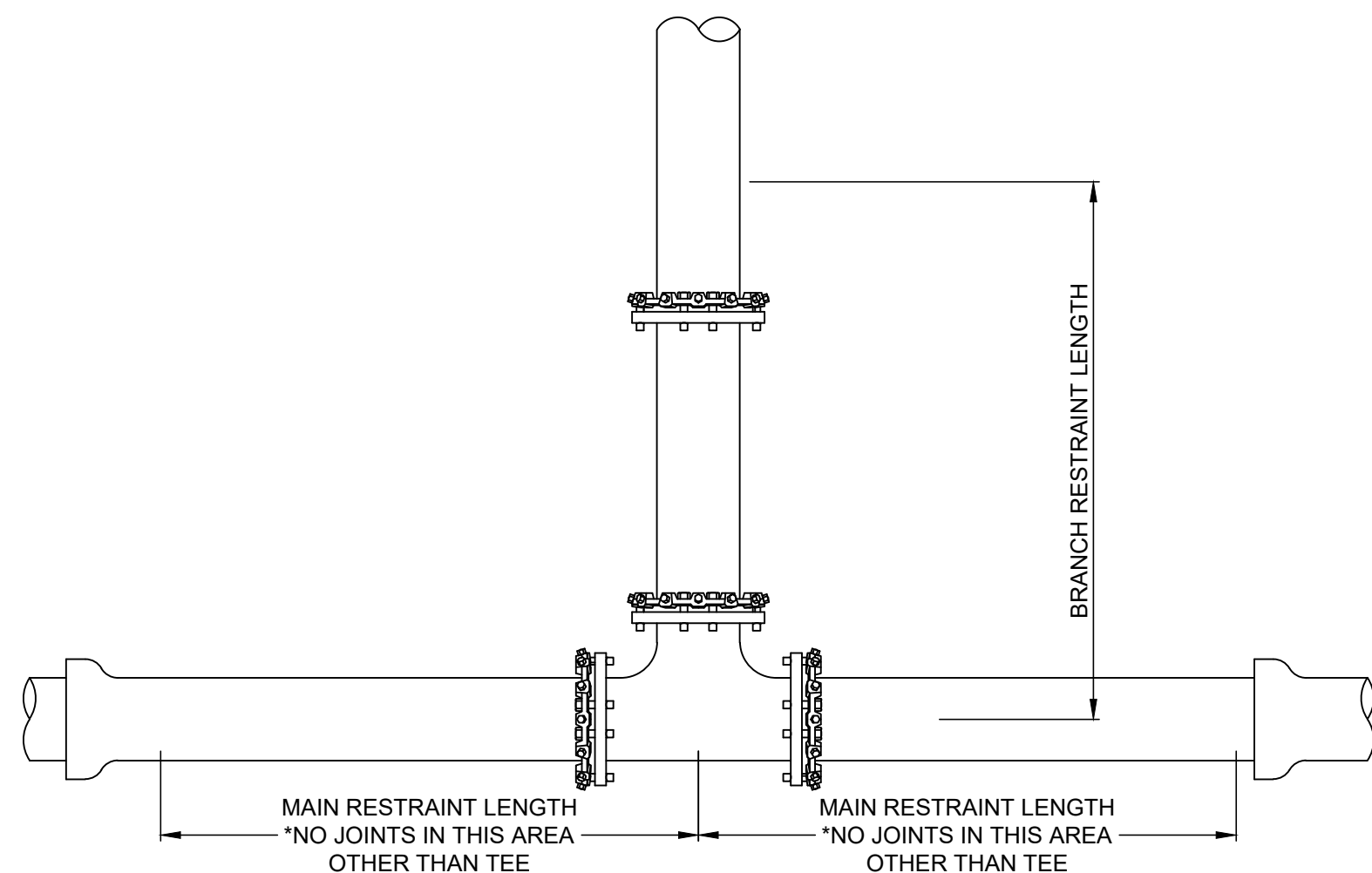
**CONTROL JOINT TYPE "C.J."**

NOT TO SCALE



**TYPICAL HORIZONTAL RESTRAINT**

NOT TO SCALE

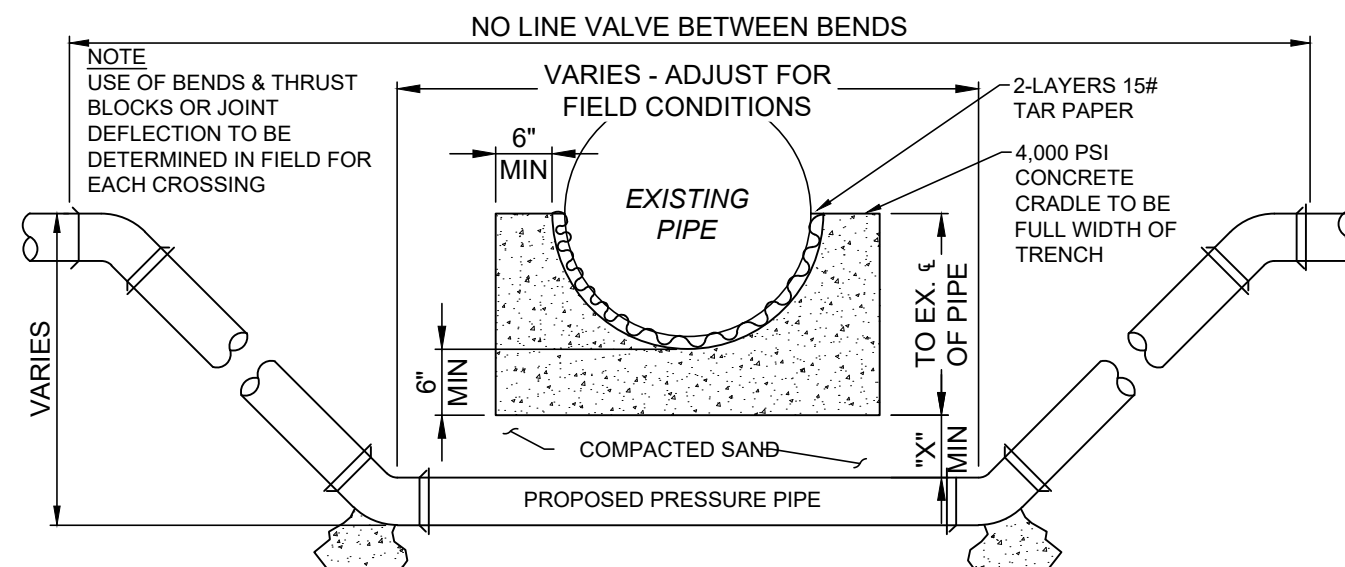


**TYPICAL HORIZONTAL TEE RESTRAINT**

NOT TO SCALE

THRUST RESTRAIN TABLE FOR STANDARD FITTINGS			
FITTING	SIZE	MINIMUM MAIN RESTRAINT LENGTH	BRANCH RESTRAINT LENGTH*
HORIZONTAL FITTINGS			
DEAD END	8"	60'	---
DEAD END	4"	32'	---
45° BEND	6"	22'	---
REDUCER	8" X 6"	25'	---
REDUCER	6" X 4"	24'	---
TEE**	8" X 4"	---	1'

\*ALL JOINTS WITHIN THE CALCULATED LENGTH MUST BE RESTRAINED.  
 \*\*A MINIMUM ATTACHED LENGTH OF PIPE OF 20FT TO EXTEND IN EACH DIRECTION ALING THE RUN OF THE TEE WAS ASSUMED TO CALCULATE THE RESTRAINED LENGTH ALONG THE BRANCH. THE LENGTH OF PIPE ALONG THE RUN MUST BE PF SOLID PIPE WITHOUT JOINTS, FITTINGS, ETC.



**CONCRETE CRADLE CONDITIONS**

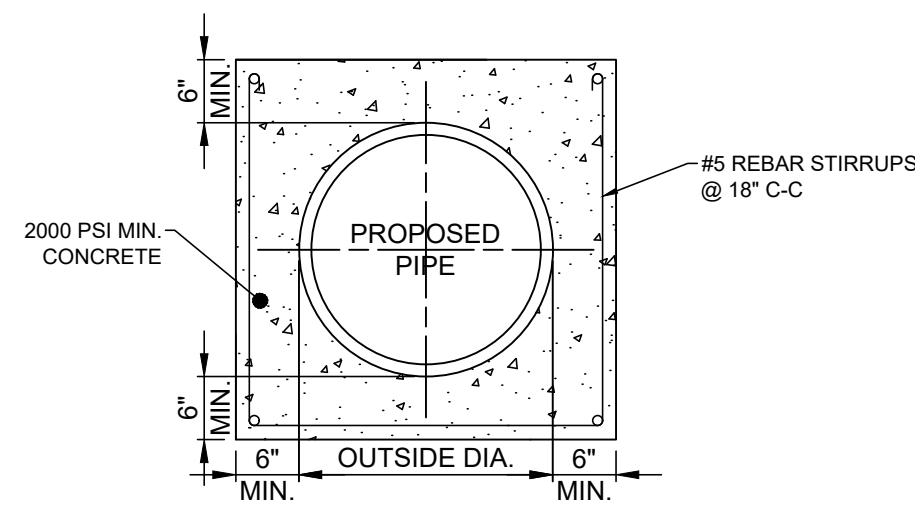
- IF SANITARY OR STORM SEWER PIPE JOINT IS WITHIN PROPOSED IMPROVEMENT TRENCH LIMIT
- IF CROSSING A WATERLINE AT ANY POINT
- IF CROSSING SPACE IS LESS THAN MIN. SPACE OF CRADLE BELOW PIPE BOTTOM PLUS "X" DIMENSION THEN OMIT SAND FILL AND USE CONCRETE

**"X" DIMENSION REQUIREMENTS**

- 6" FOR WATERLINE CROSSING (ALSO FOR GAS & O.B.T. LINES W/ NO CRADLE NEEDED)
- 18" FOR SANITARY OR STORM SEWER PIPE
- IF CROSSING SPACE IS MORE THAN MIN. SPACE OF CRADLE BELOW PIPE BOTTOM PLUS AFOREMENTIONED "X" DIMENSION THEN EXTEND "X" DIMENSION TO MAKE UP DIFFERENCE

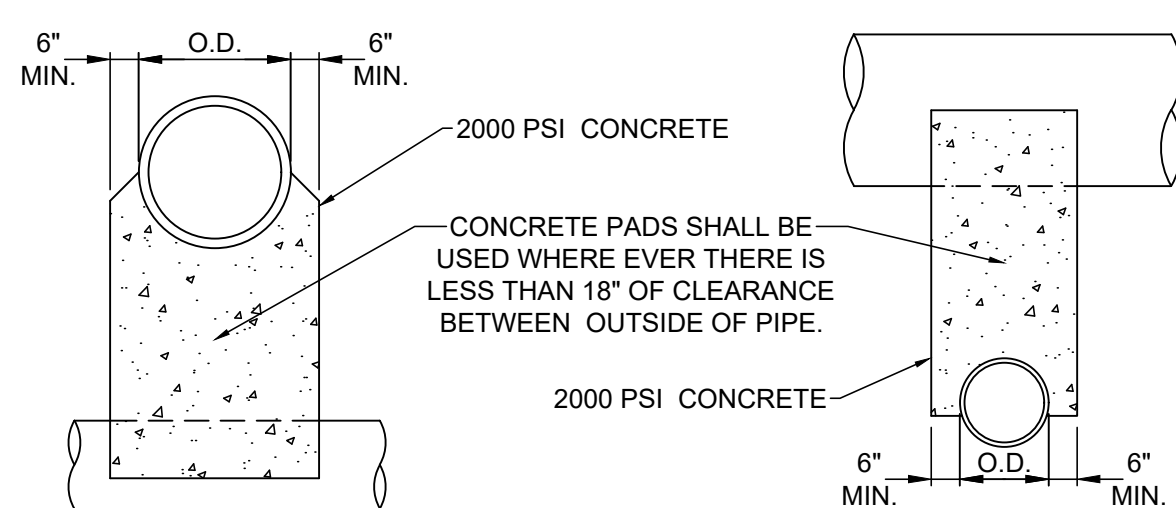
**PIPE LOWERING DETAIL**

NOT TO SCALE



**TYPICAL PIPE ENCASEMENT**

NOT TO SCALE

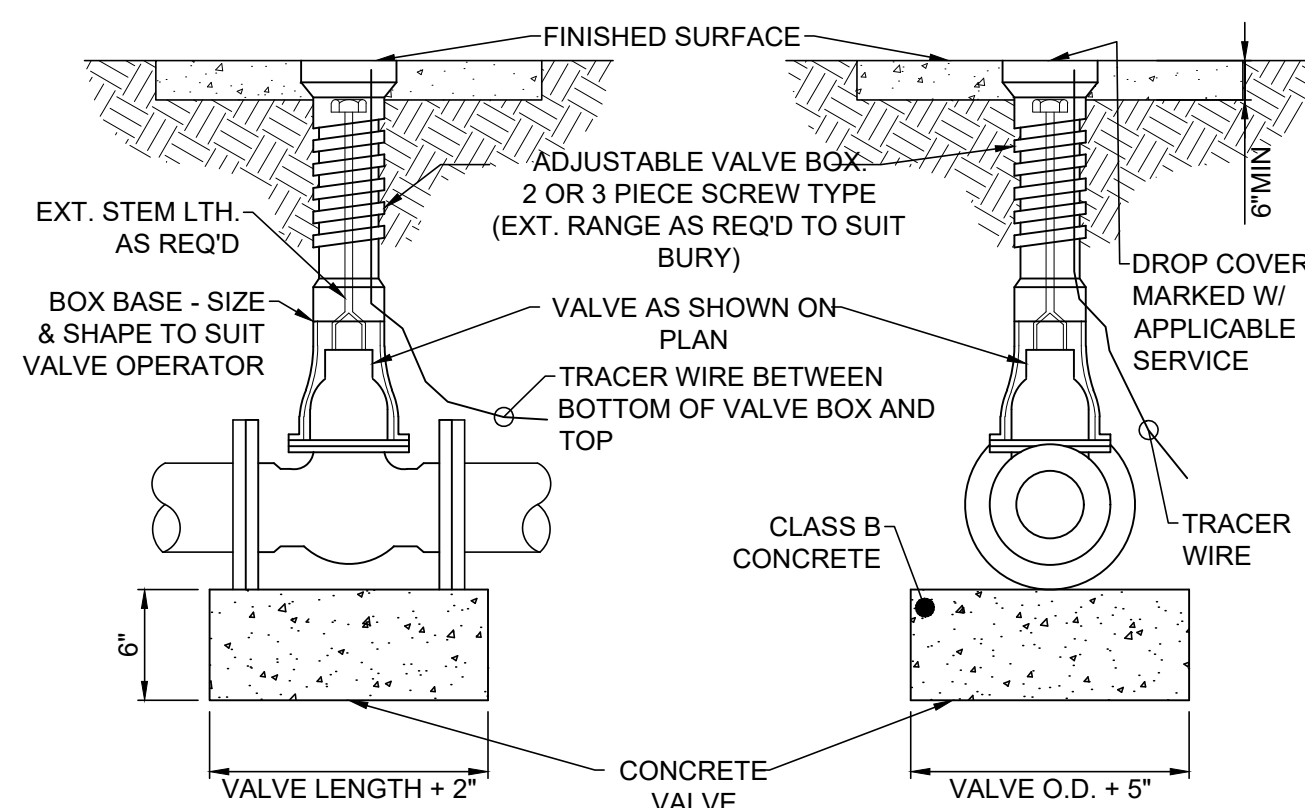


**NOTE:**

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, WHERE TWO PIPES (SEWER & WATER) CROSS EACH OTHER, A CONCRETE PAD AND CRADLE SEPARATOR SHALL BE PLACED BETWEEN THEM AS INDICATED ABOVE. WHERE PERMISSION IS GRANTED TO OMIT THE CONCRETE PADS, GRANULAR BACKFILL SHALL BE TAMPED IN 6" LAYERS AROUND BOTH PIPES. SUCH TAMPED BACKFILL SHALL BE CONTINUOUS FROM THE CRADLE OF THE LOWER PIPE TO THE TOP OF THE UPPER PIPE AND AT THE BOTTOM SHALL EXTEND IN BOTH DIRECTIONS, FOR THE FULL WIDTH OF THE TRENCH.

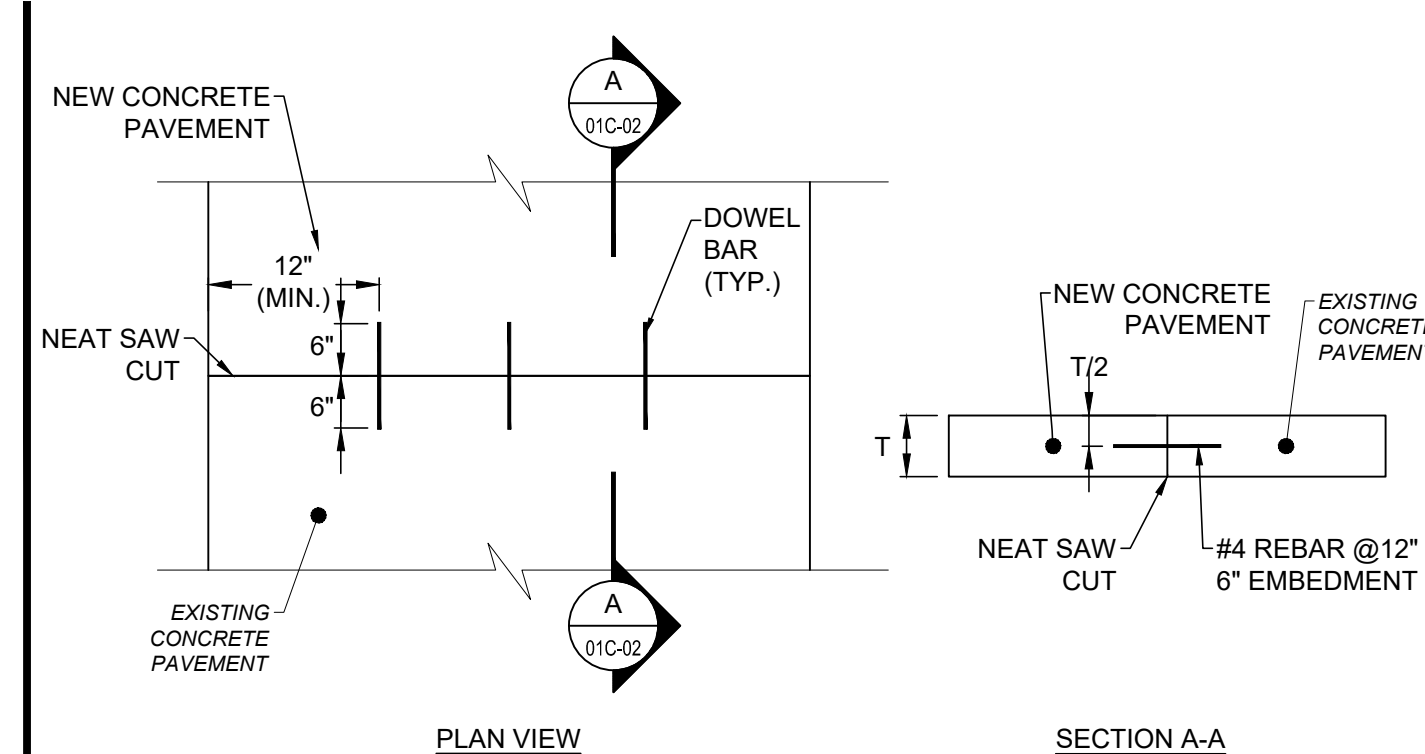
**PIPE CROSSING DETAIL**

NOT TO SCALE



**TYPICAL VALVE AND VALVE BOX SETTING**

NOT TO SCALE

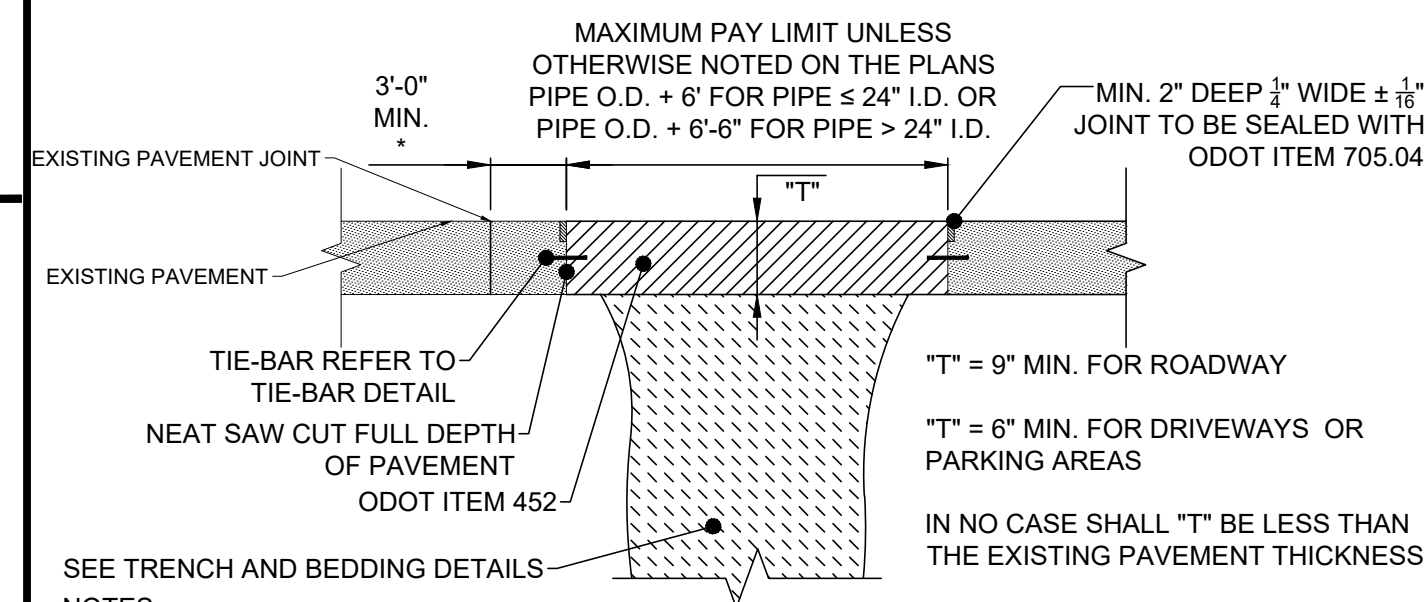


**PLAN VIEW**

**SECTION A-A**

**TIE BAR DETAIL**

NOT TO SCALE



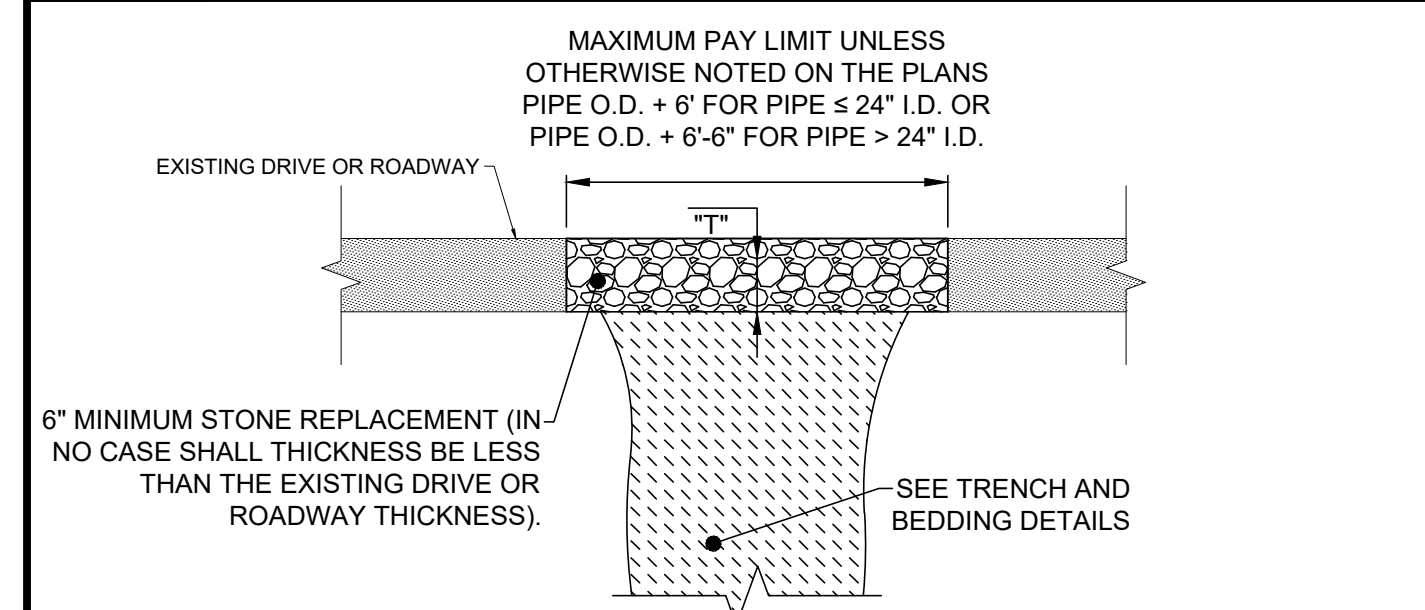
**NOTES:**

- EXISTING SUBBASE MATERIAL (IF ANY) SHALL BE REPLACED, AS DIRECTED BY ENGINEER.
- REPLACEMENT SHALL BE REINFORCED AS PER O.D.O.T. ITEM 709.10 OR 709.12 IF EXISTING PAVEMENT IS REINFORCED.
- 5/8"Ø HOOKBOLT @ 30" O.C. MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

\* WHERE WIDTH IS LESS THAN 3'-0" OR EXISTING PAVEMENT IS DETERIORATED, THE CONTRACTOR SHALL REPLACE ADDITIONAL PAVEMENT AS DIRECTED BY THE ENGINEER. PAYMENT FOR ADDITIONAL PAVEMENT REPLACEMENT AS DIRECTED BY THE ENGINEER SHALL BE AT THE SAME UNIT PRICE BID.

**TYPE A PAVEMENT REPLACEMENT**

NOT TO SCALE

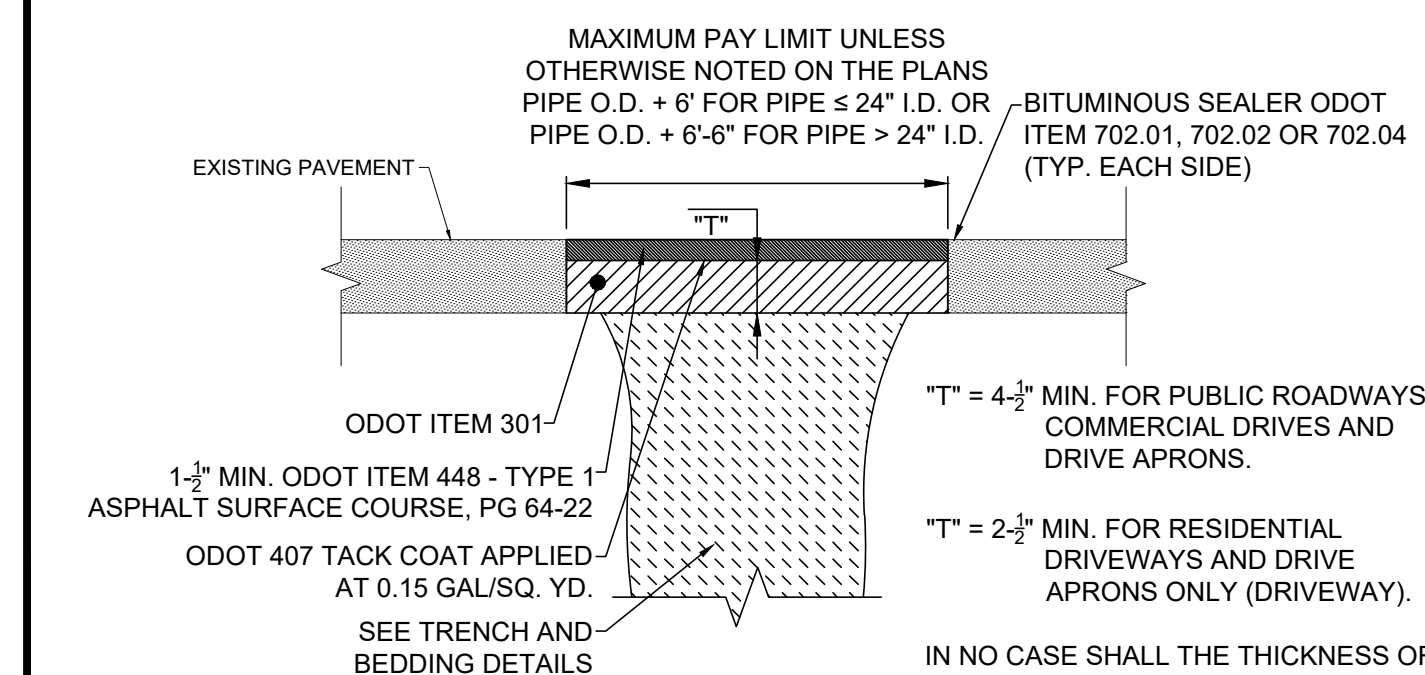


**NOTE:**

- REPLACEMENT MATERIAL SHALL BE THE SAME TYPE AND SIZE AS EXISTING.

**TYPE F PAVEMENT REPLACEMENT**

NOT TO SCALE



**NOTE:**

- EXISTING SUBBASE MATERIAL (IF ANY) SHALL BE REPLACED, AS DIRECTED BY ENGINEER.

**TYPE C PAVEMENT REPLACEMENT**

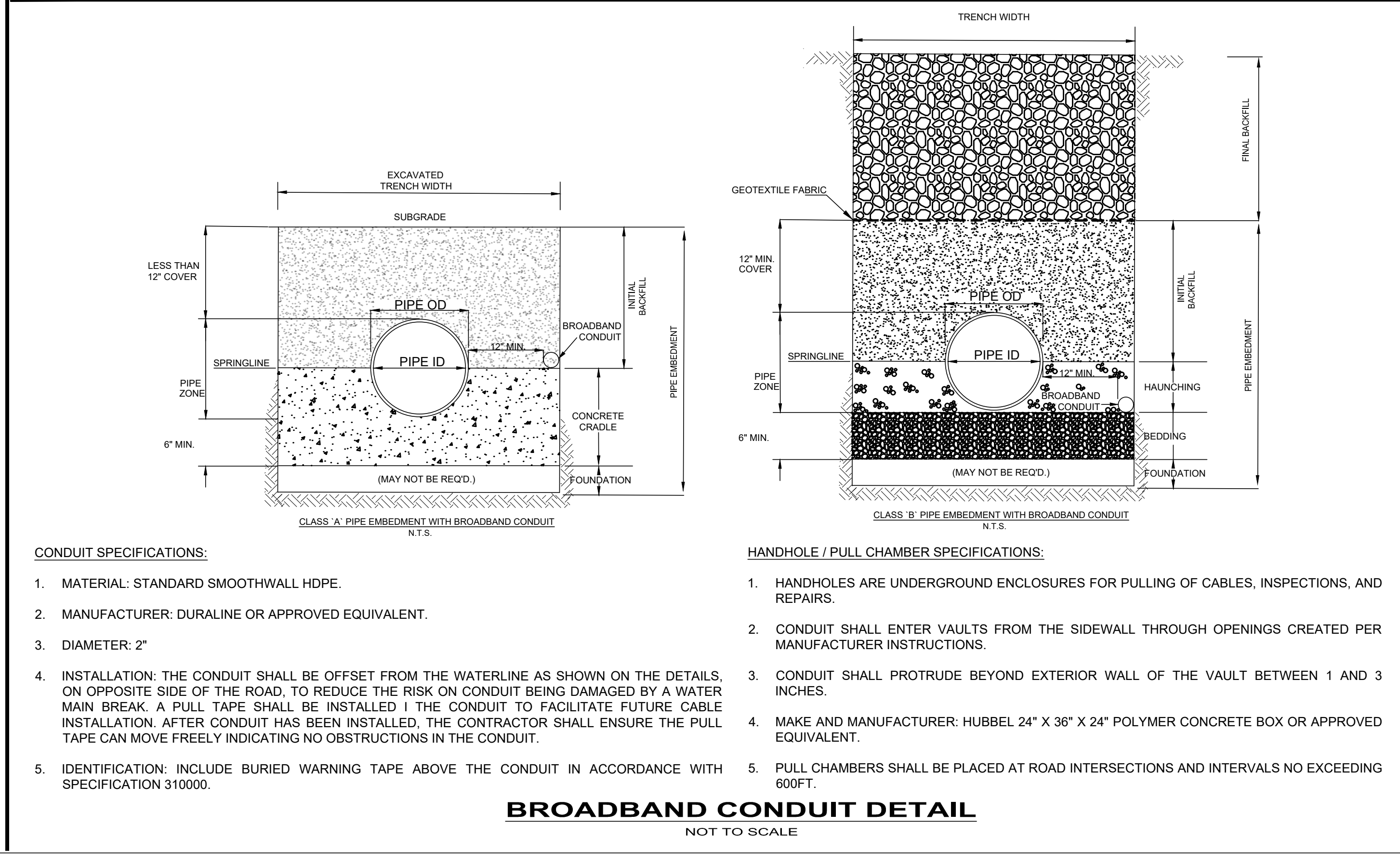
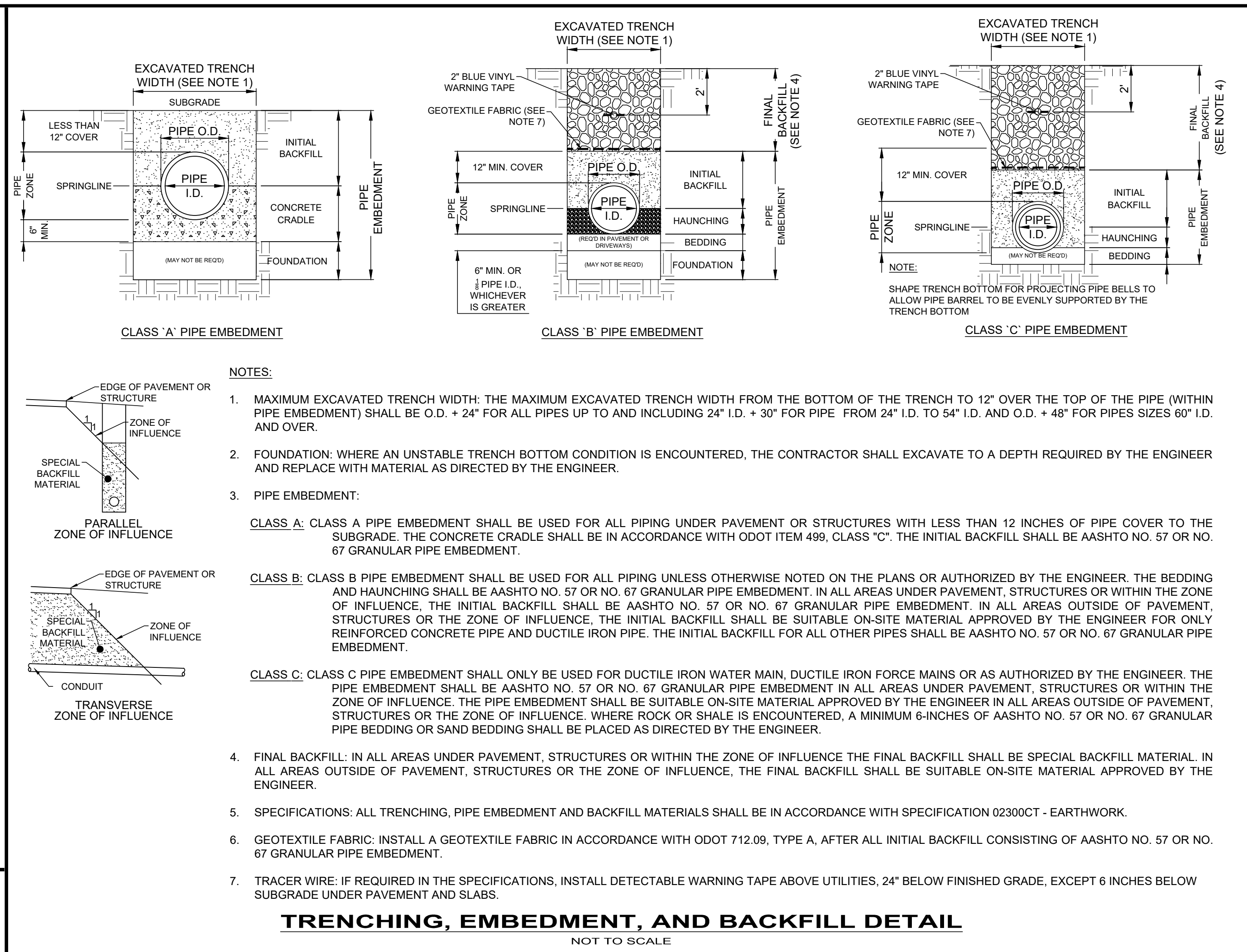
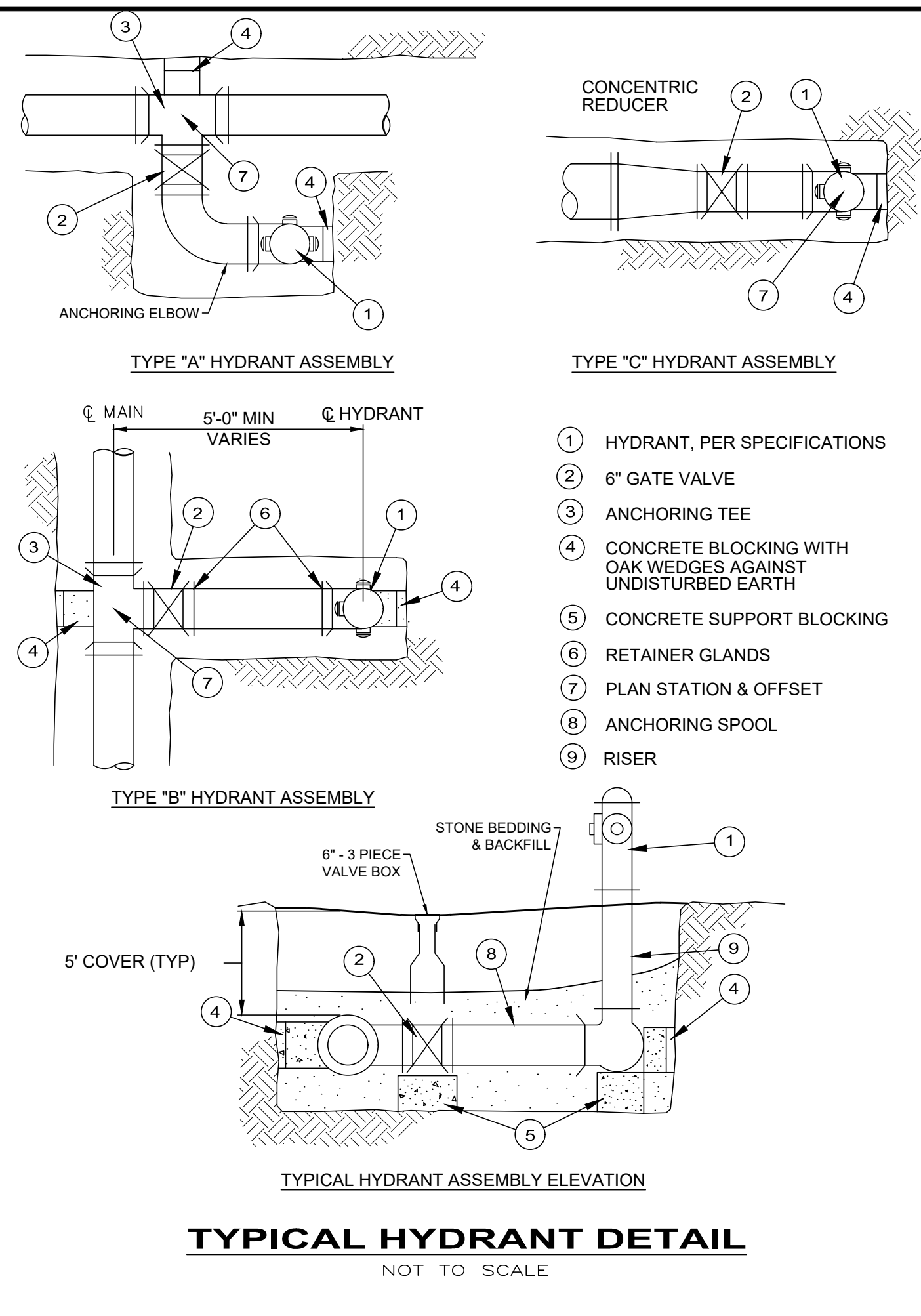
NOT TO SCALE



NO	REVISION	DATE

**ASHTABULA COUNTY**  
 SOUTH RIVER ROAD WATERLINE EXTENSION  
 HARPERFILED, OHIO  
**ASHTABULA COUNTY**  
 STANDARD DETAILS - SD SERIES  
 CONSTRUCTION DETAILS

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	SD-01
SHEET	7
OF	39



STATE OF OHIO  
 GEORGIA CONWAY  
 E-85401  
 PROFESSIONAL ENGINEER

your trusted advisor  
 engineers  
 architects  
 planners  
 consultants

NO.	REVISION	DATE

ISSUED FOR: REVIEW SET  
 ISSUE DATE: 04/17/2024  
 SCALE: AS NOTED  
 DESIGNED BY: M.L.B.  
 DRAWN BY: M.L.B.  
 CHECKED BY: G.B.C.

**ASHTABULA COUNTY**  
 SOUTH RIVER ROAD WATERLINE EXTENSION  
 HARPERSFIELD, OHIO  
 ASHTABULA COUNTY  
 STANDARD DETAILS - SD SERIES  
 CONSTRUCTION DETAILS

PROJECT NO.  
**241222**  
 DISCIPLINE  
**CIVIL**  
 SHEET NAME  
**SD-02**

SHEET 8 OF 39

**CONTRACTOR'S RESPONSIBILITIES:**

- CONTRACTORS MUST USE ENVIRONMENTAL DUE DILIGENCE TO ENSURE THAT THE FILL MATERIAL ASSOCIATED WITH THIS PROJECT QUALIFIES AS CLEAN FILL. DEFINITIONS OF CLEAN FILL AND ENVIRONMENTAL DUE DILIGENCE ARE PROVIDED BELOW.
- CLEAN FILL: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSIBLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE) REFER TO STANDARD DETAILS AND PROJECT MANUAL FOR SPECIFIC PROJECT REQUIREMENTS.
- ENVIRONMENTAL DUE DILIGENCE: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTIC TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECT TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL.
- FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE.

**SITE RESTORATION:**

- ALL DISTURBED PROPERTY SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION, AS NEAR AS POSSIBLE WITHIN 20 DAYS.
- ONCE AN AREA IS GRADED TO ITS FINAL GRADE IT MUST BE STABILIZED WITH THE PERMANENT SEED MIX SPECIFICATION ACCORDING TO ITS SLOPE.

**INSPECTION AND MAINTENANCE:**

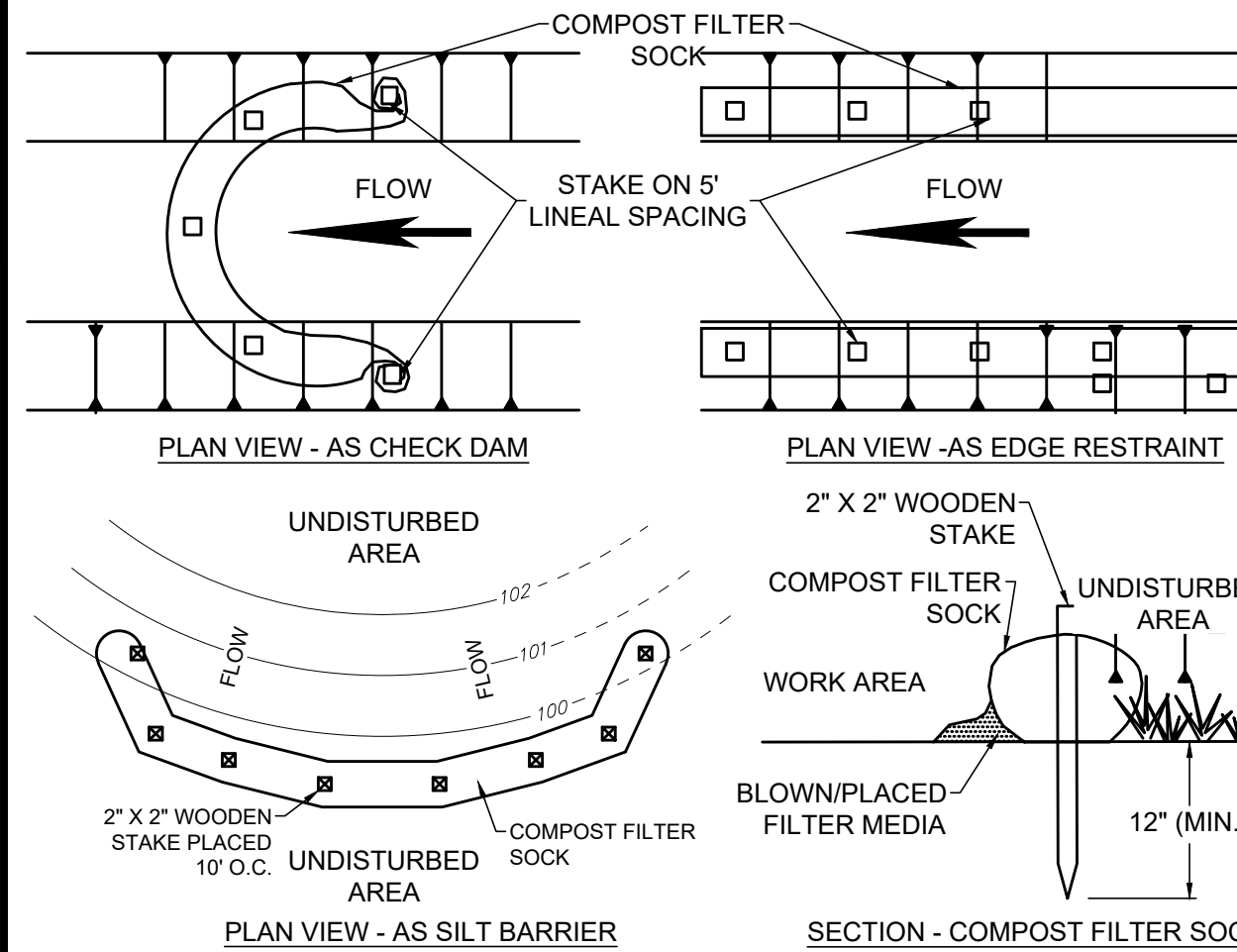
- ALL EROSION AND SEDIMENTATION CONTROL FACILITIES SHALL BE INSPECTED WEEKLY AND AFTER EACH
- FABRIC FENCES: REPAIR DAMAGE TO FENCES. BACKFILL UNDERCUTTING. OVERTOPPED AREAS SHALL BE REPLACED WITH AN OUTLET ROCK FILTER. IF SEDIMENT REACHES ONE HALF THE FENCE HEIGHT, IT SHALL BE REMOVED AND PLACED IN THE TOPSOIL AND FILL STOCKPILE AREA. REPLACEMENT FENCE AND STAKES SHALL BE KEPT ON SITE.
- CONSTRUCTION ENTRANCE: WHEN UTILIZED, INSPECTED DAILY. EXCESS SEDIMENT SHALL BE REMOVED AND STORED IN THE TOPSOIL AND FILL STOCKPILE AREA AND USED AS FILL OR ROAD SUBBASE. A STOCKPILE OF REPLACEMENT ROCK SHALL BE KEPT ON SITE.

**GENERAL NOTES:**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF SEDIMENTATION AND EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AS OUTLINED HEREIN, AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE COUNTY SOIL CONSERVATION DISTRICT AND THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- ALL EROSION CONTROL MEASURES SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN ARE TO BE INSTALLED PRIOR TO BEGINNING ANY OTHER EARTH DISTURBING ACTIVITY.
- EROSION AND SEDIMENT BMPs (BEST MANAGEMENT PRACTICES) MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTRIBUTION BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPs.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING INSPECTIONS OF ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER ALL STORMS THAT PRODUCE MORE THAN 1/2" TOTAL RAINFALL. ANY NEEDED REPAIRS SHALL BE PERFORMED IMMEDIATELY.
- THE CONTRACTOR SHALL DOCUMENT ALL INSPECTIONS AND REPAIRS THAT ARE DONE TO MAINTAIN EFFICIENCY. COPIES OF EROSION CONTROL INSPECTION REPORTS SHALL BE SUBMITTED TO THE COUNTY SOIL CONSERVATION DISTRICT. CONTRACTOR SHALL USE DEP FORM 3150-FM-BWWE0083, VISUAL SITE INSPECTION REPORT.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE BMPs MUST BE STABILIZED IMMEDIATELY.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.

**RECYCLING/DISPOSAL OF WASTE REQUIREMENTS:**

- ALL CONSTRUCTION/DEMOLITION WASTE MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED IN ACCORDANCE WITH THE DEPARTMENTS SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET. SEQ., 287.1 ET. SEQ. THIS INCLUDES SOLID WASTE RESULTING FROM THE CONSTRUCTION OR DEMOLITION OF BUILDINGS OR OTHER STRUCTURES, INCLUDING BUT NOT LIMITED TO: WOOD, PLASTER, METALS, ASPHALTIC SUBSTANCES, BRICKS, BLOCK AND UNSEGREGATED CONCRETE. THIS DOES NOT INCLUDE: UNCONTAMINATED SOIL, ROCK, STONE, GRAVEL, BRICK, BLOCK, CONCRETE, USED ASPHALT, WASTE FROM LAND CLEARING, GRUBBING AND EXCAVATION, INCLUDING TREES, BRUSH, STUMPS AND VEGETATIVE MATERIAL IF THEY ARE SEPARATE FROM OTHER WASTE AND ARE USED AS CLEAN FILL.
- CONSTRUCTION WASTES (INCLUDING BUT NOT LIMITED TO EXCESS SOIL, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC.) ARE TO BE DISPOSED OF OR RECYCLED AT APPROPRIATE, PERMITTED FACILITIES.
- THE CONTRACTOR MUST USE ENVIRONMENTAL DUE DILIGENCE TO ENSURE THAT THE FILL MATERIAL ASSOCIATED WITH THIS PROJECT (IF ANY) QUALIFIES AS CLEAN FILL MATERIAL. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ANY REQUIRED PERMITS.
- DISPOSAL OF WASTE MATERIALS MUST COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- ANTICIPATED CONSTRUCTION WASTE:
  - FILL MATERIAL FROM EXCAVATION - LANDFILL
  - CONSTRUCTION DEMOLITION FROM BUILDINGS, TANKS, ETC. - LANDFILL OR RECYCLE IF FEASIBLE
  - CONCRETE WASHOUT - USE WASHOUT FACILITY

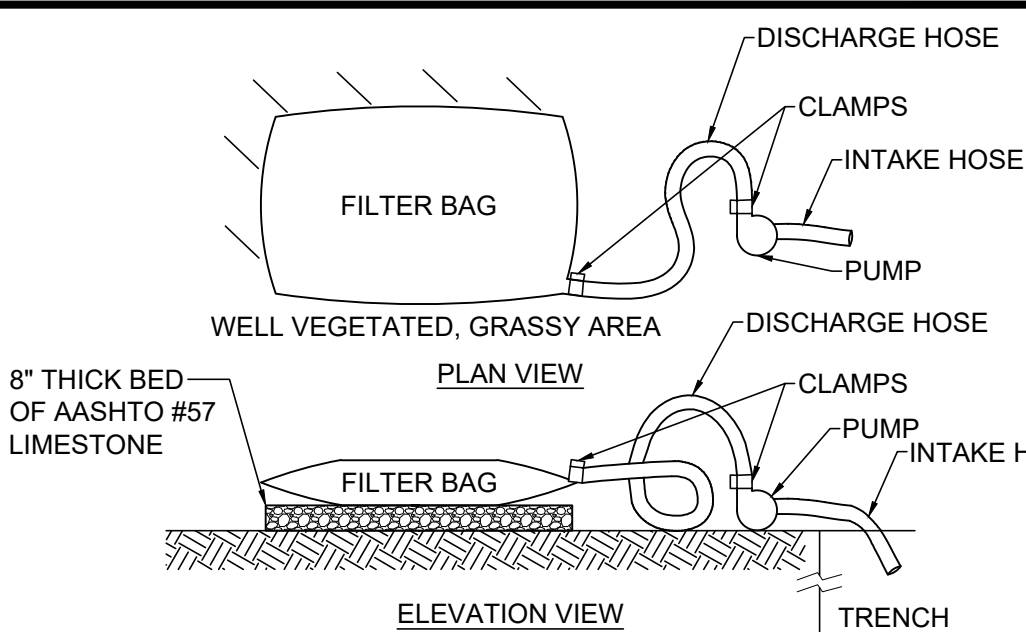


**NOTES:**

- 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 1/2 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

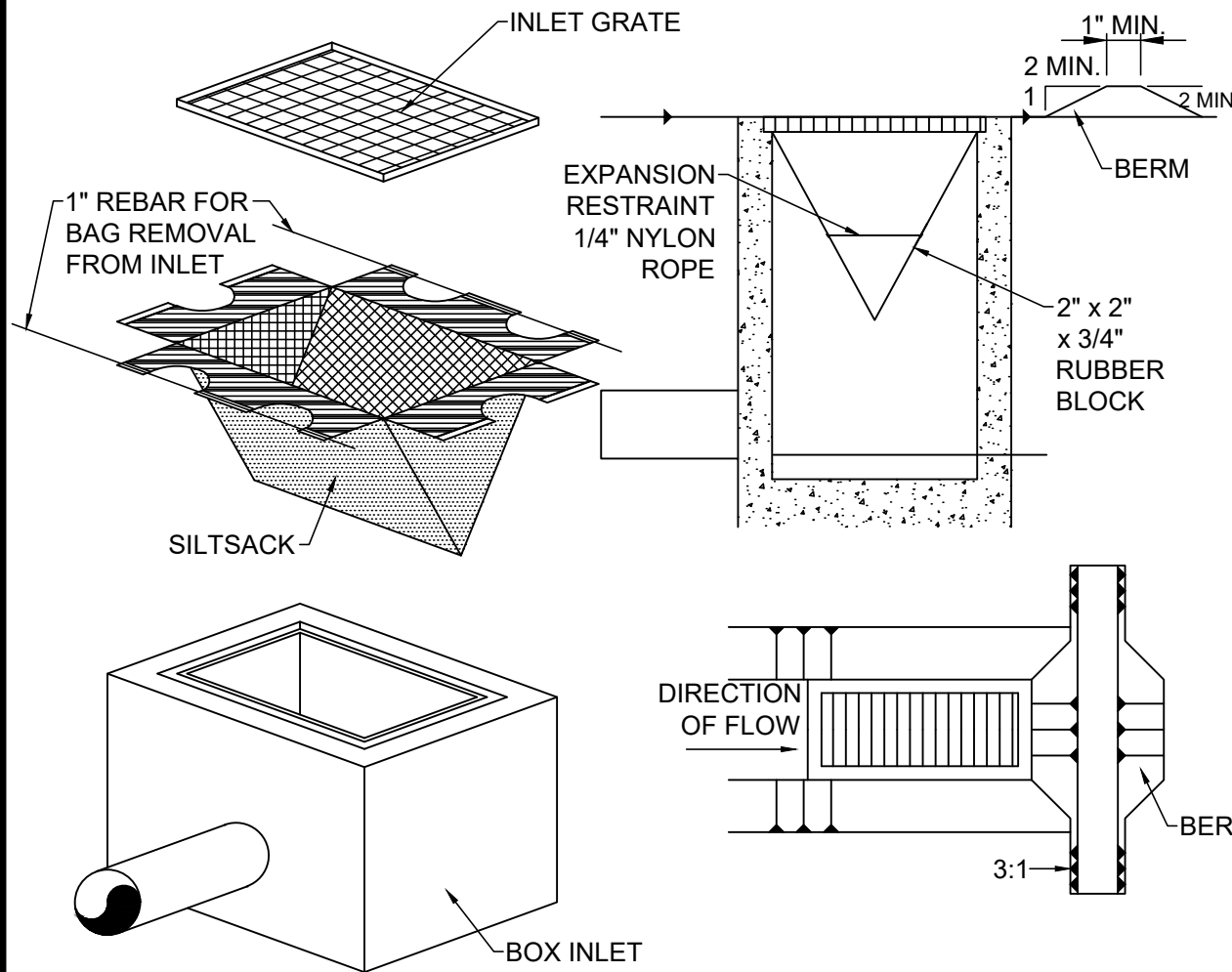


**NOTES:**

- 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

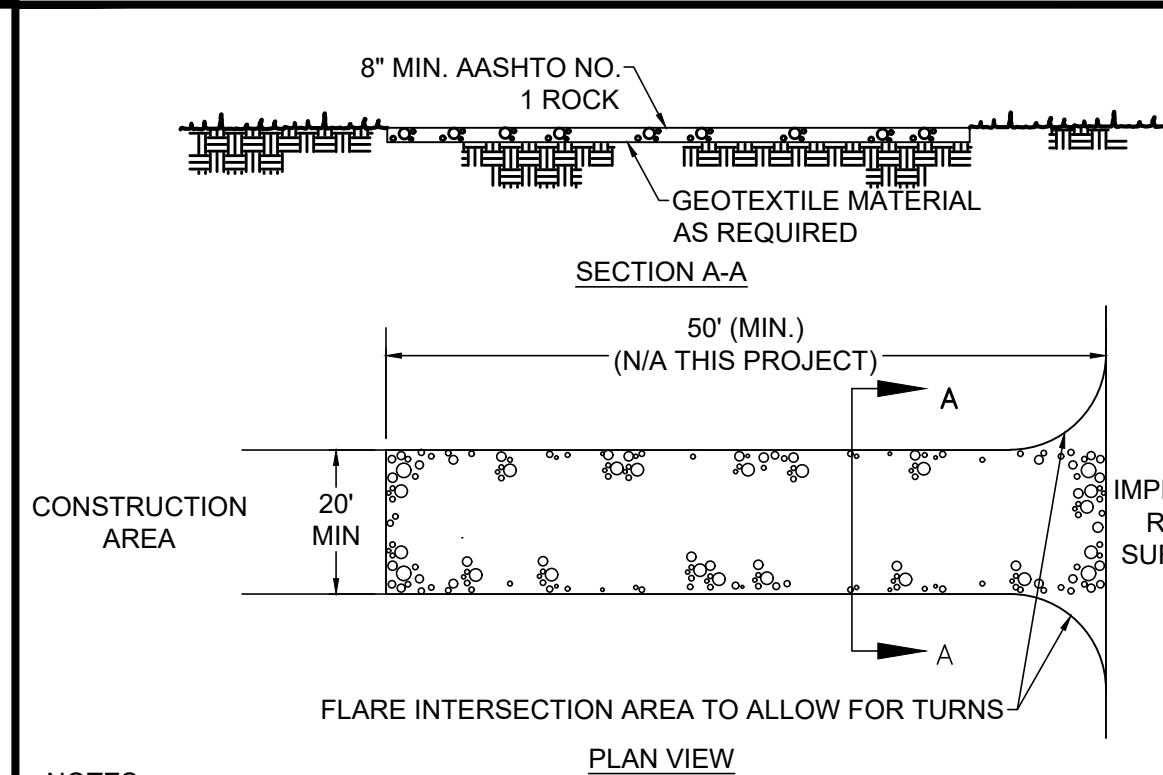


**NOTES:**

- 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:**

- ROCK CONSTRUCTION ENTRANCES SHALL BE PLACED AT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS AND CONSTRUCTED TO THE MINIMUM WIDTH, LENGTH AND THICKNESS DIMENSIONS SHOWN.
- ROCK SHALL BE AASHTO NO.1 AS SPECIFIED IN SECTION 703.2 OF THE PENNDOT PUBLICATION 408.
- FOR INSTALLATION ON CLAYEY OR POORLY DRAINED SOILS, A GEOTEXTILE FABRIC UNDERLAYMENT, OF A TYPE RECOMMENDED FOR SUCH APPLICATIONS BY THE MANUFACTURER, SHALL BE USED.
- MAINTENANCE: THE ROCK CONSTRUCTION ENTRANCE SHALL BE REDRESSED WHEN VOIDS BECOME CHOKED WITH SEDIMENT. THE STRUCTURES THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY CLEANING OR ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON THE SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON DRIVEWAYS AND PUBLIC ROADWAYS, SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING OF THE DRIVEWAYS OR ROADWAYS WITH WATER IS NOT PERMITTED.

**ROCK 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 1250 SF
20% PERENNIAL RYEGRASS	90%	
30% CREEPING RED FESCUE	88%	
98% PURE LIVE SEED		

TYPE	GERMINATION RATE	APPLICATION RATE
PERMANENT SEED MIXTURE FOR SLOPES GREATER THAN 3:1		
30% ANNUAL RYEGRASS	90%	1 LBS. PER 1000 SF
25% KENTUCKY BLUEGRASS	90%	
31% TALL FESCUE	90%	
15% BIRDSFOOT TREFOIL	90%	
15% WHITE CLOVER	90%	
10% CLIMAX TIMOTHY	90%	
5% REDTOP	90%	
98% PURE LIVE SEED		

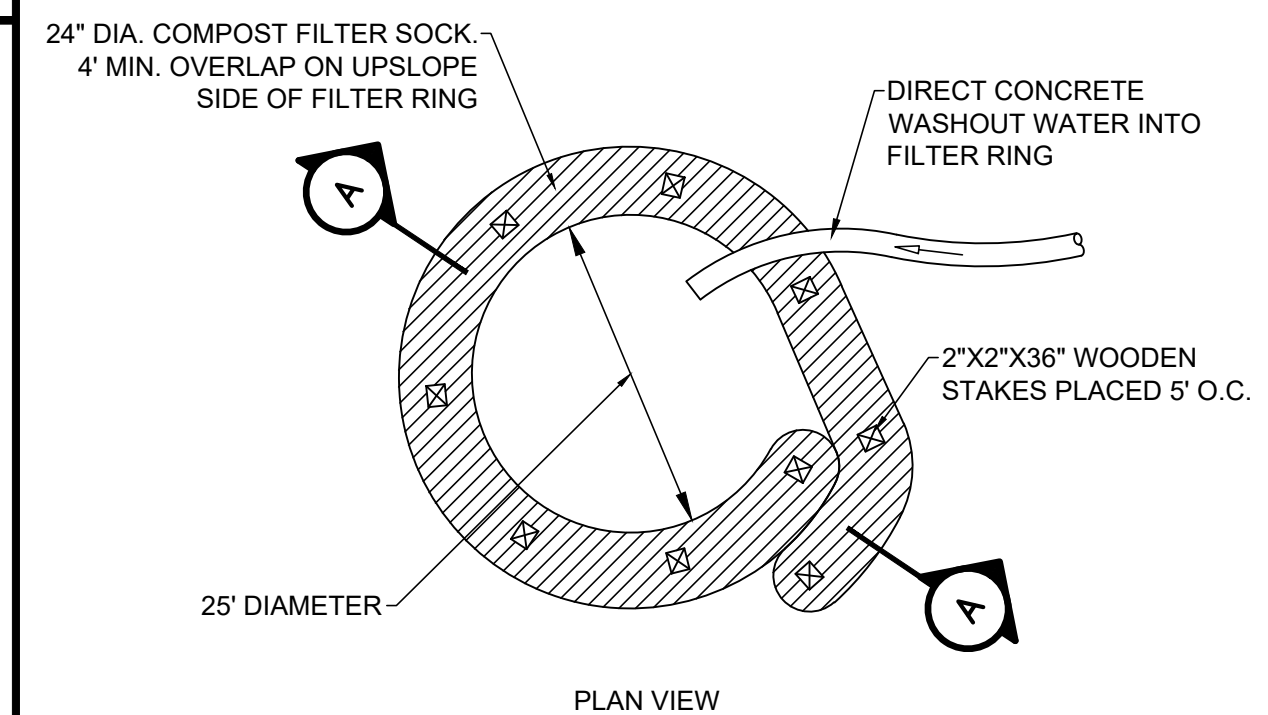
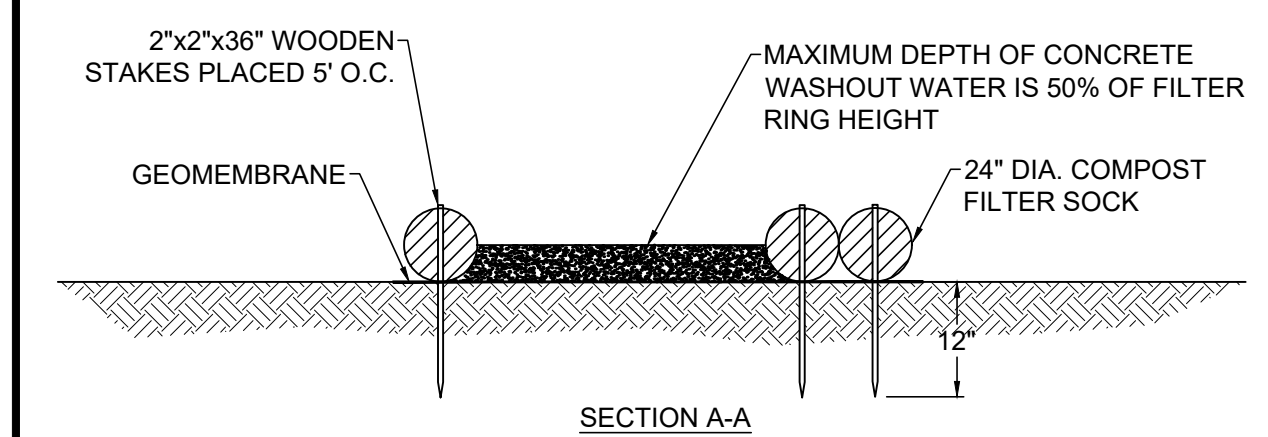
APPLICATION RATE: 100 LB/ACRE  
 FERTILIZER 10-20-20, APPLICATION RATE: 680 LB/ACRE  
 LIMING RATE: 2.0 TON/ACRE  
 MULCH: STRAW - MULCHING RATE: 3.0 TON/ACRE  
 PROTECT SEED WITH: NAG 575 OR APPROVED SUBSTITUTE  
 SEEDING SEASONS: MARCH 15 - JUNE 1 & AUG 1 - OCT 15

**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

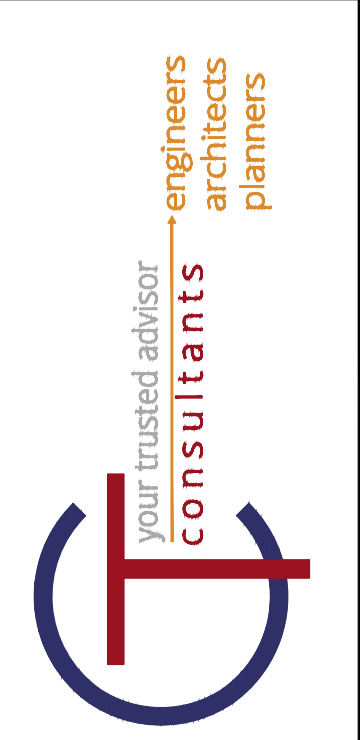


**NOTES:**

- 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**

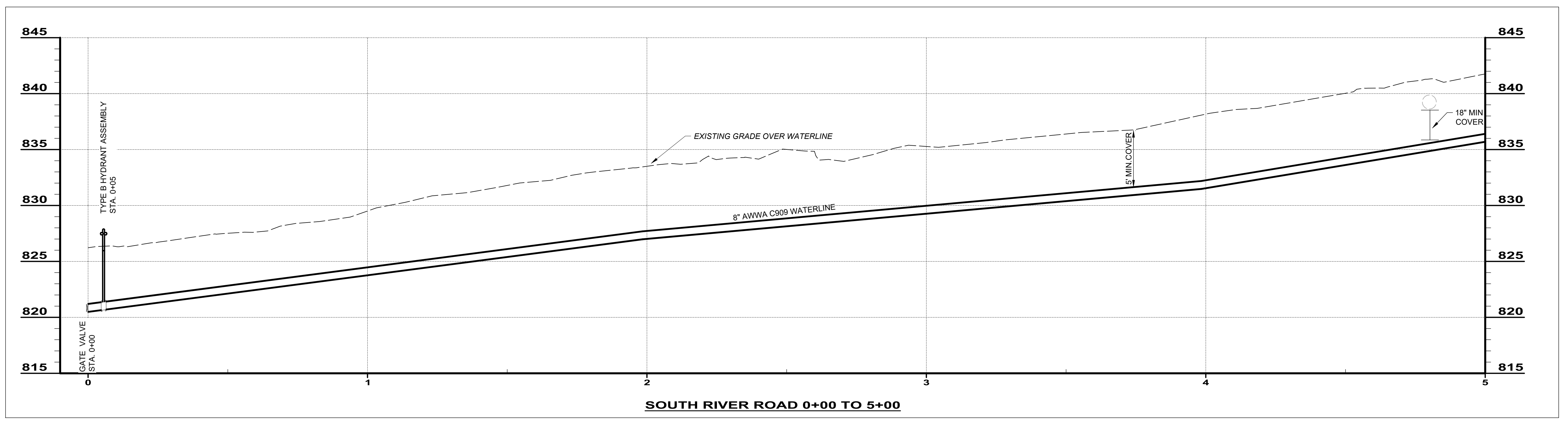
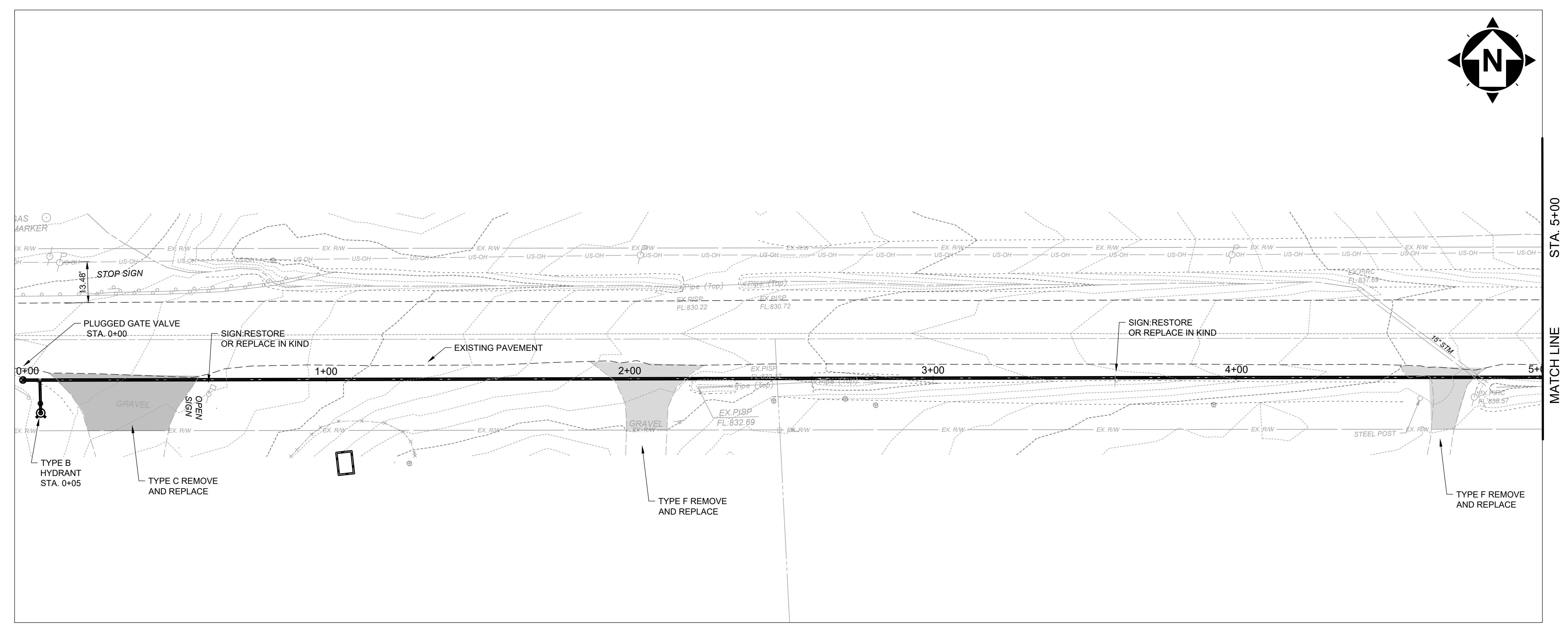
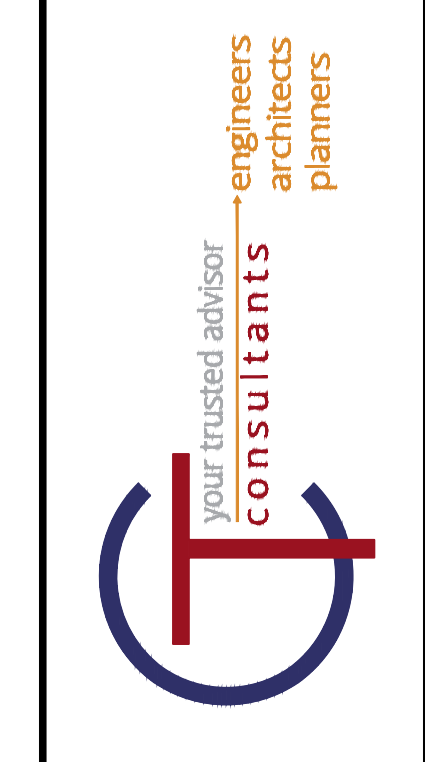
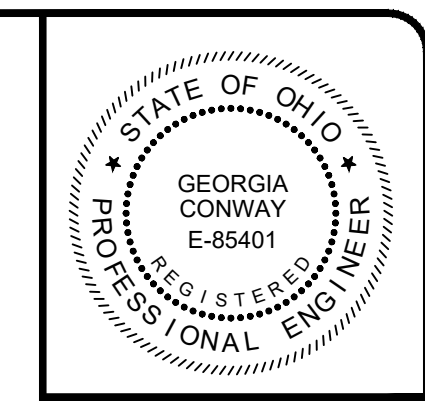
NOT TO SCALE



DATE	REVISION	NO	ISSUED FOR:	REVIEW SET
			ASHTABULA COUNTY SOUTH RIVER ROAD WATERLINE EXTENSION	04/17/2024
			SCALE:	AS NOTED
			DESIGNED BY:	MLB
			DRAWN BY:	MLB
			CHECKED BY:	GBC

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
**ASHTABULA COUNTY**  
**STANDARD DETAILS - SD SERIES**  
**CONSTRUCTION DETAILS**

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	SD-03
SHEET	OF
9	39



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

NO.	REVISION	DATE

ISSUED FOR:	REVIEW SET	DATE
ISSUE DATE:	AS NOTED	04/17/2024
SCALE:	MLB	
DESIGNED BY:	MLB	
DRAWN BY:	MLB	
CHECKED BY:	GBC	

**ASHTABULA COUNTY**

**SOUTH RIVER ROAD WATERLINE EXTENSION**

ASHTABULA COUNTY HARPERSFIELD, OHIO

PLAN AND PROFILE - 10 SERIES

SOUTH RIVER ROAD STA. 0+00 TO STA. 5+00

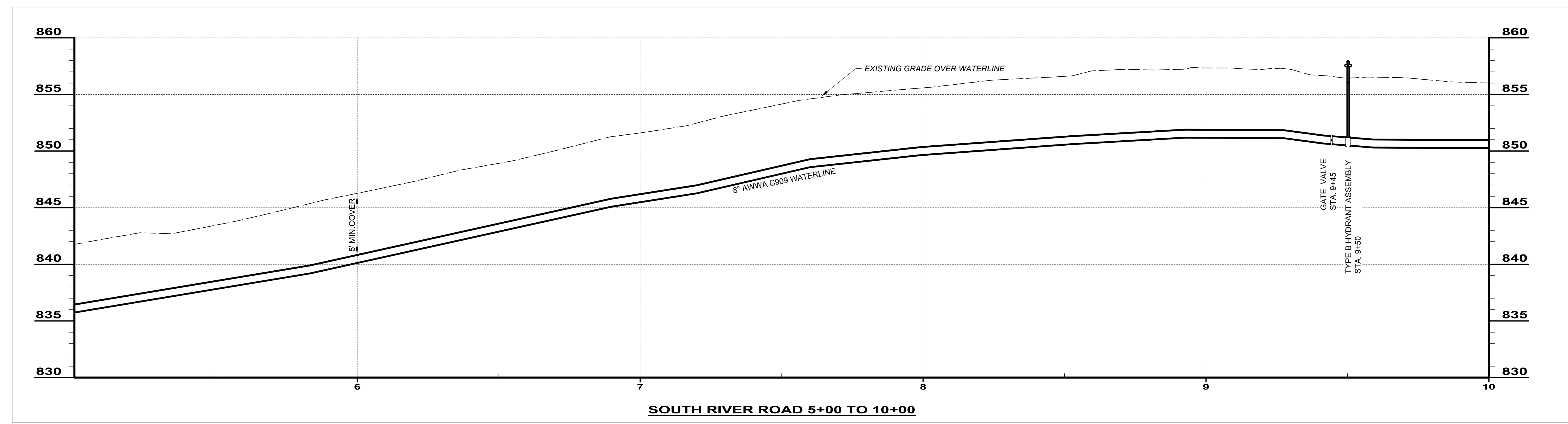
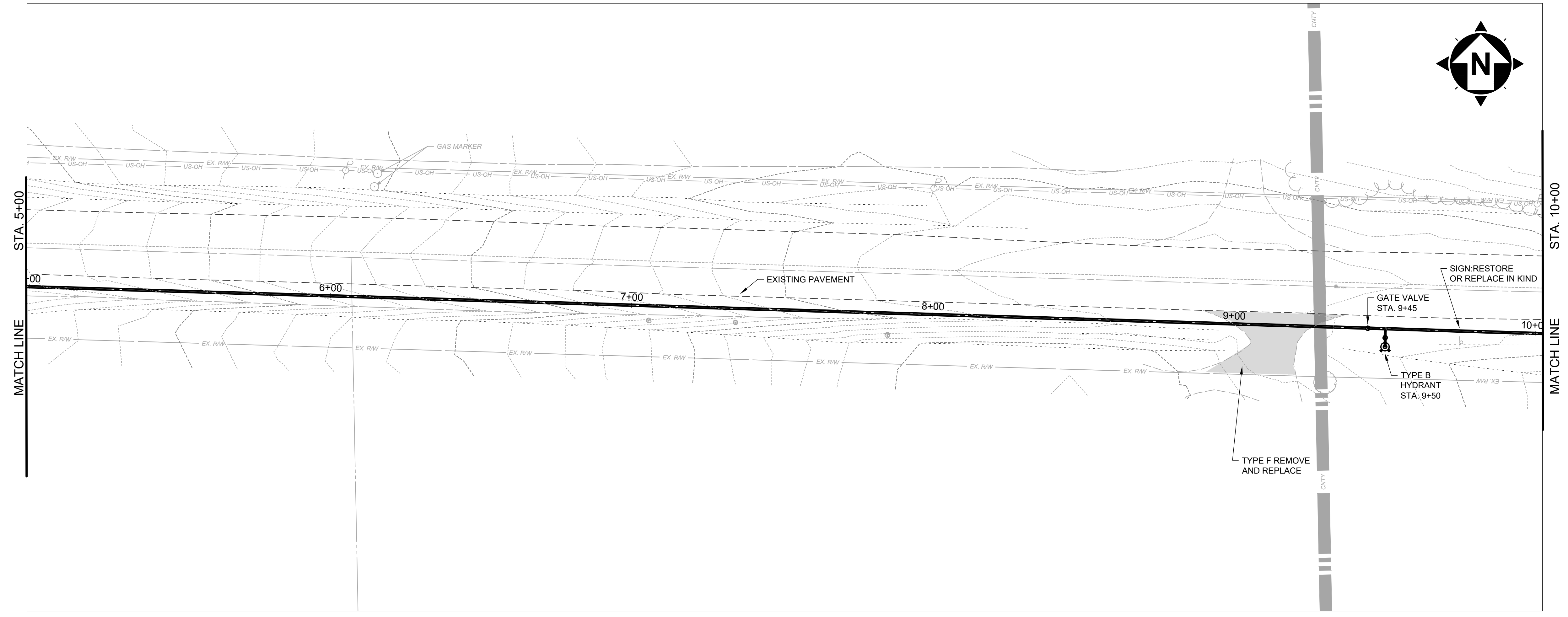
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PROJECT NO. 241222

DISCIPLINE CIVIL

SHEET NAME PP-01

SHEET 10 OF 39



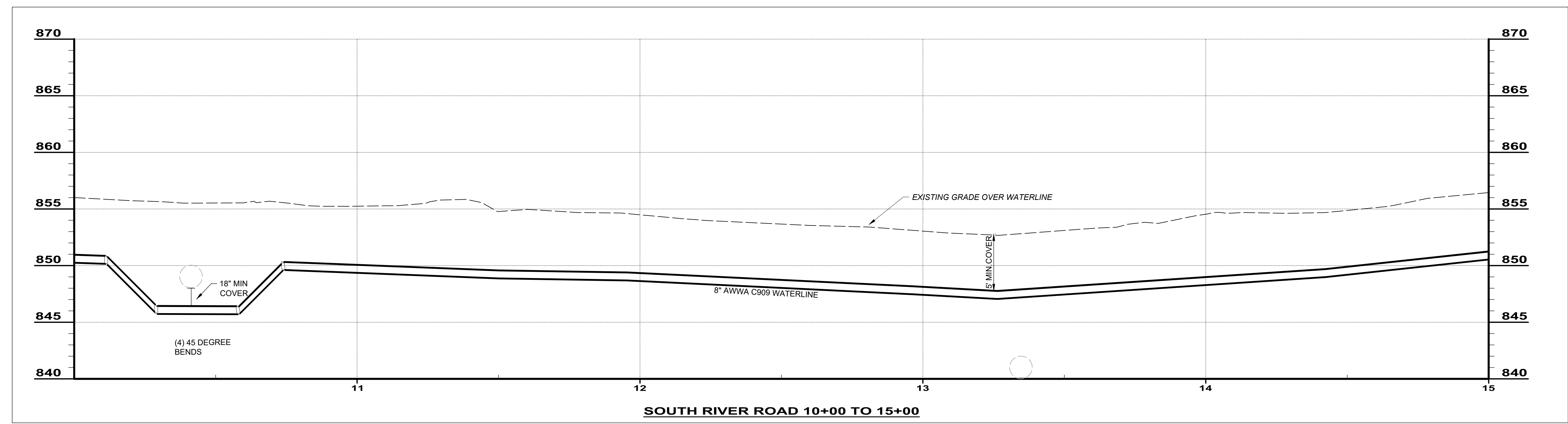
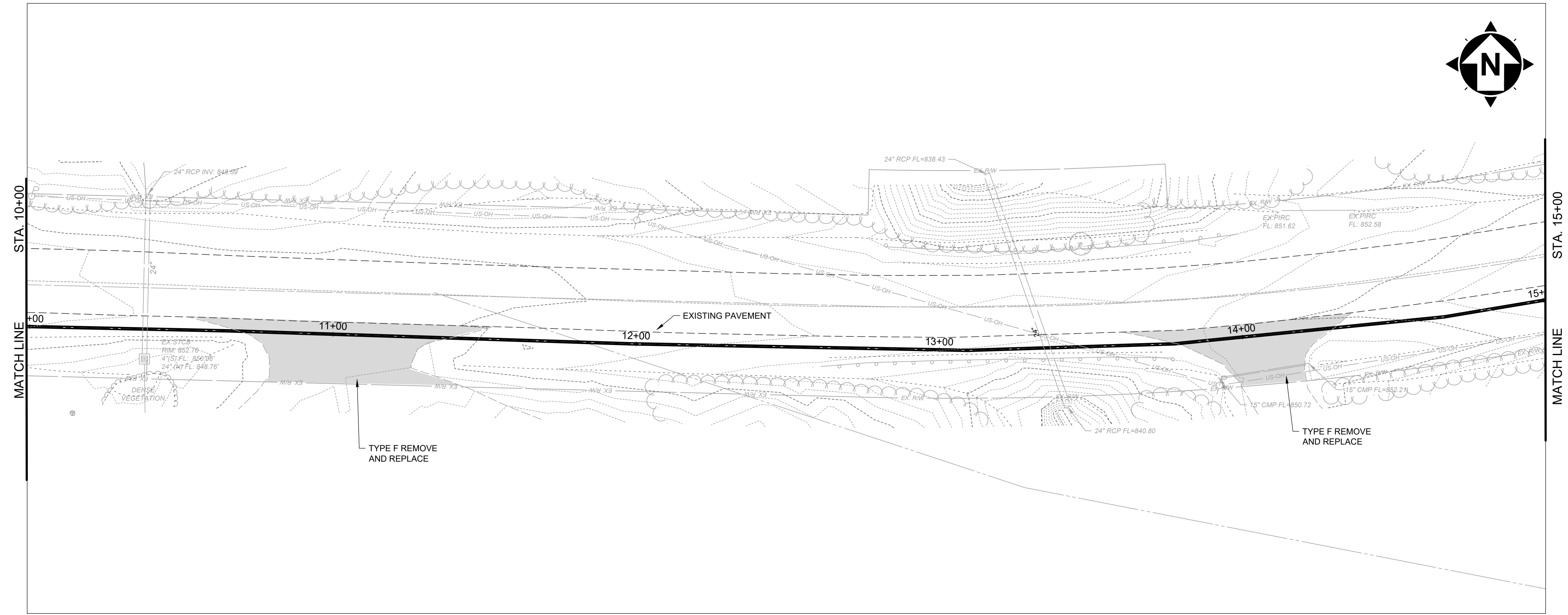
**SOUTH RIVER ROAD 5+00 TO 10+00**

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

NO	REVISION	DATE

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERSFILLED, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 SOUTH RIVER ROAD STA. 5+00 TO STA. 10+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-02
SHEET	OF
11	39



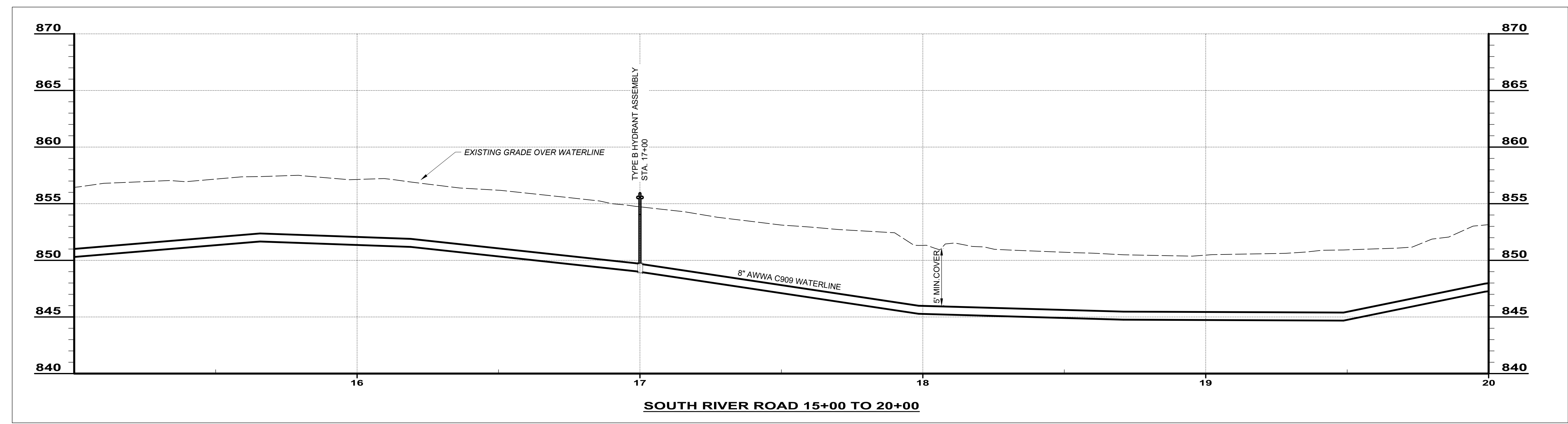
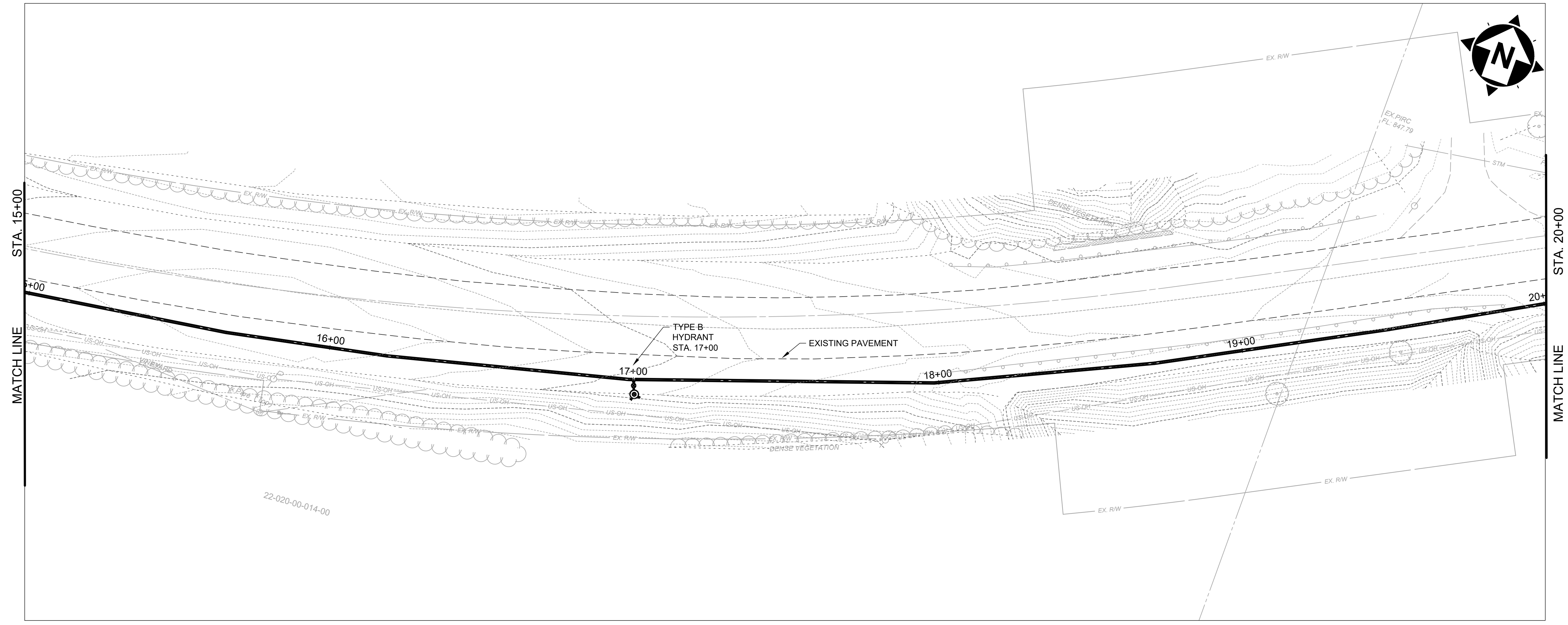
**SOUTH RIVER ROAD 10+00 TO 15+00**

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

NO	REVISION	DATE

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERSFIELD, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 SOUTH RIVER ROAD STA. 10+00 TO STA. 15+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-03
SHEET	12
OF	39

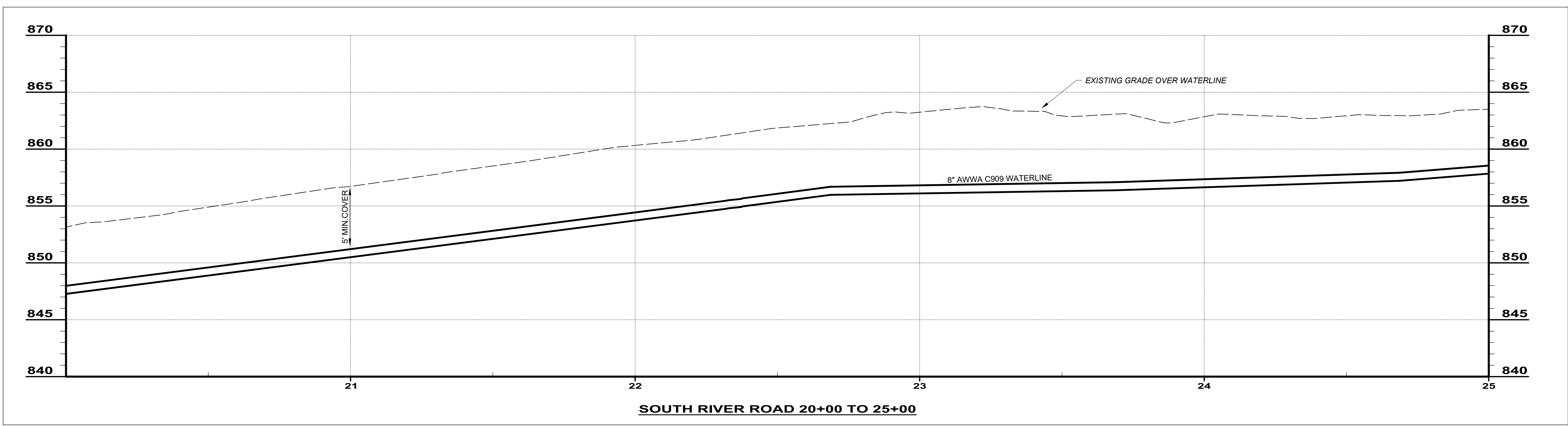
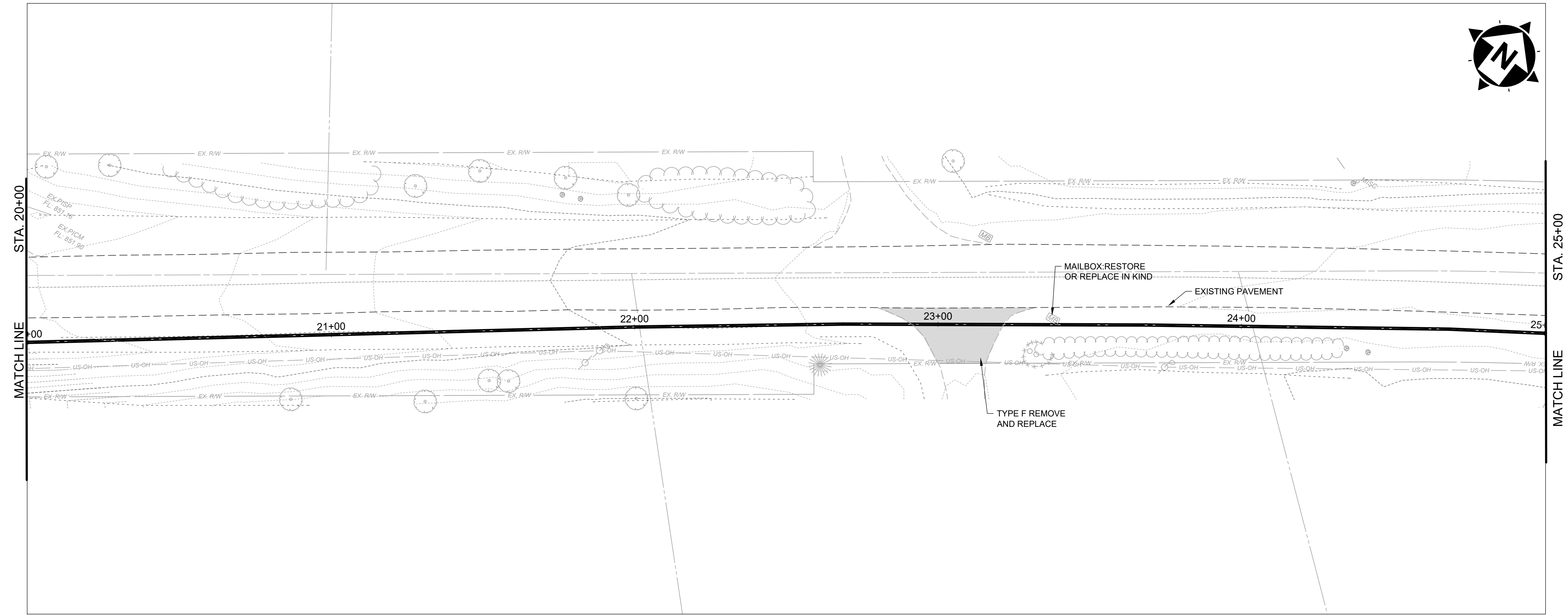


SCALE: HORIZ. 1" = 20'  
VERT. 1" = 5'

NO	REVISION	DATE

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERFILED, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 SOUTH RIVER ROAD STA. 15+00 TO STA. 20+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-04
SHEET	OF
13	39

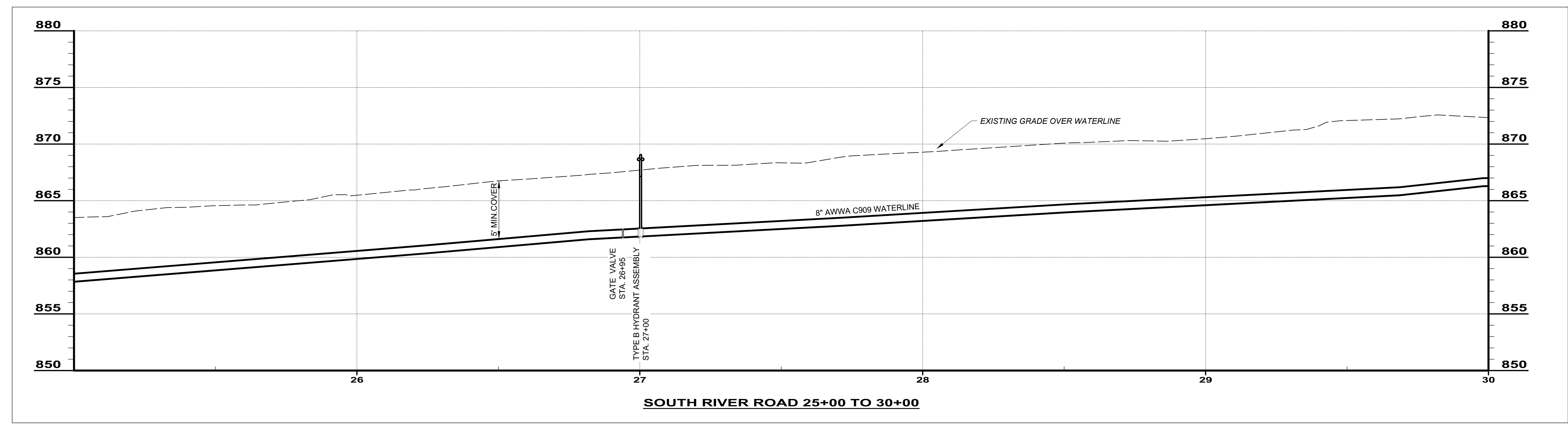
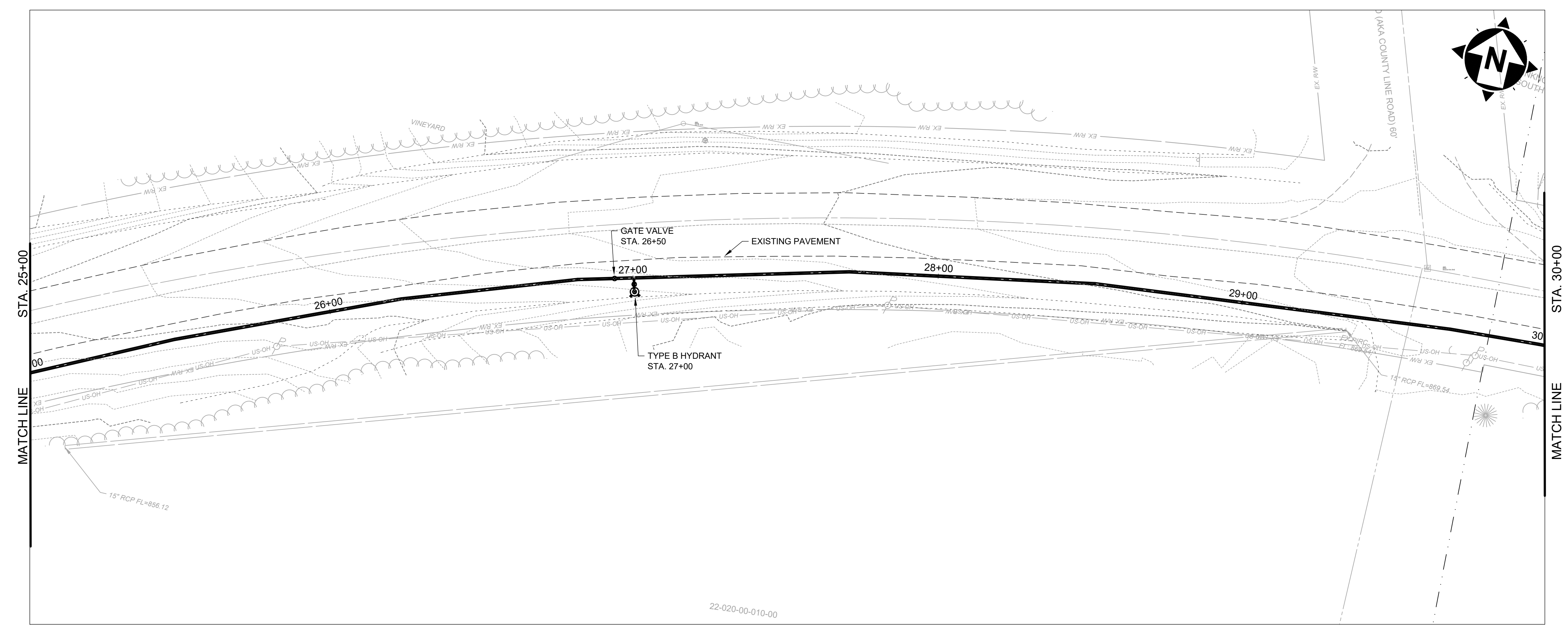


SCALE: HORIZ. 1" = 20'  
VERT. 1" = 5'

NO.	REVISION	DATE

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERFILED, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 SOUTH RIVER ROAD STA. 20+00 TO STA. 25+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-05
SHEET	14
OF	39

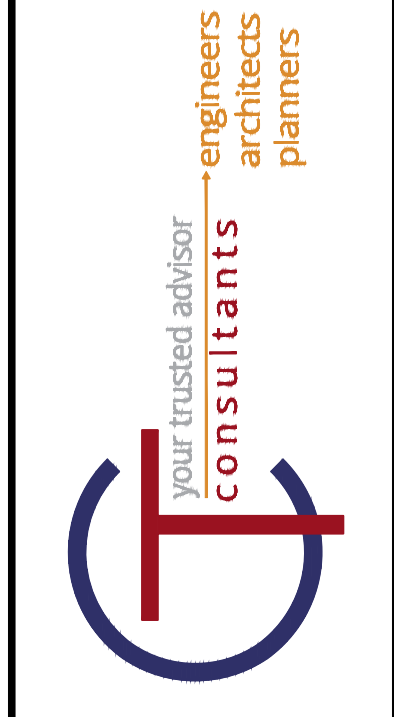


SCALE: HORIZ. 1" = 20'  
VERT. 1" = 5'

NO	REVISION	DATE

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERFILED, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 SOUTH RIVER ROAD STA. 25+00 TO STA. 30+00

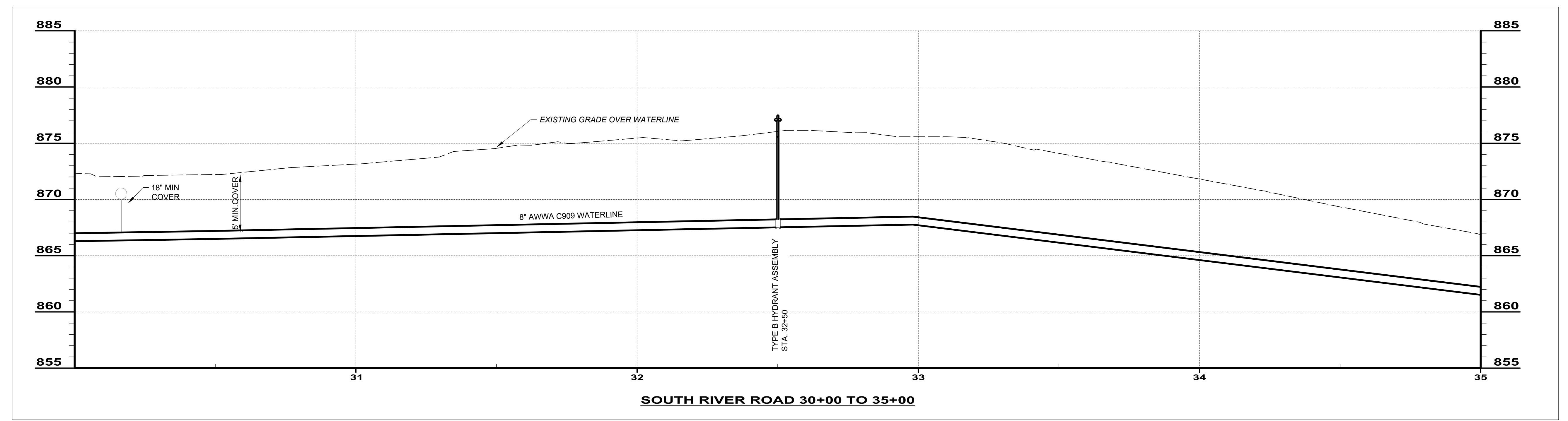
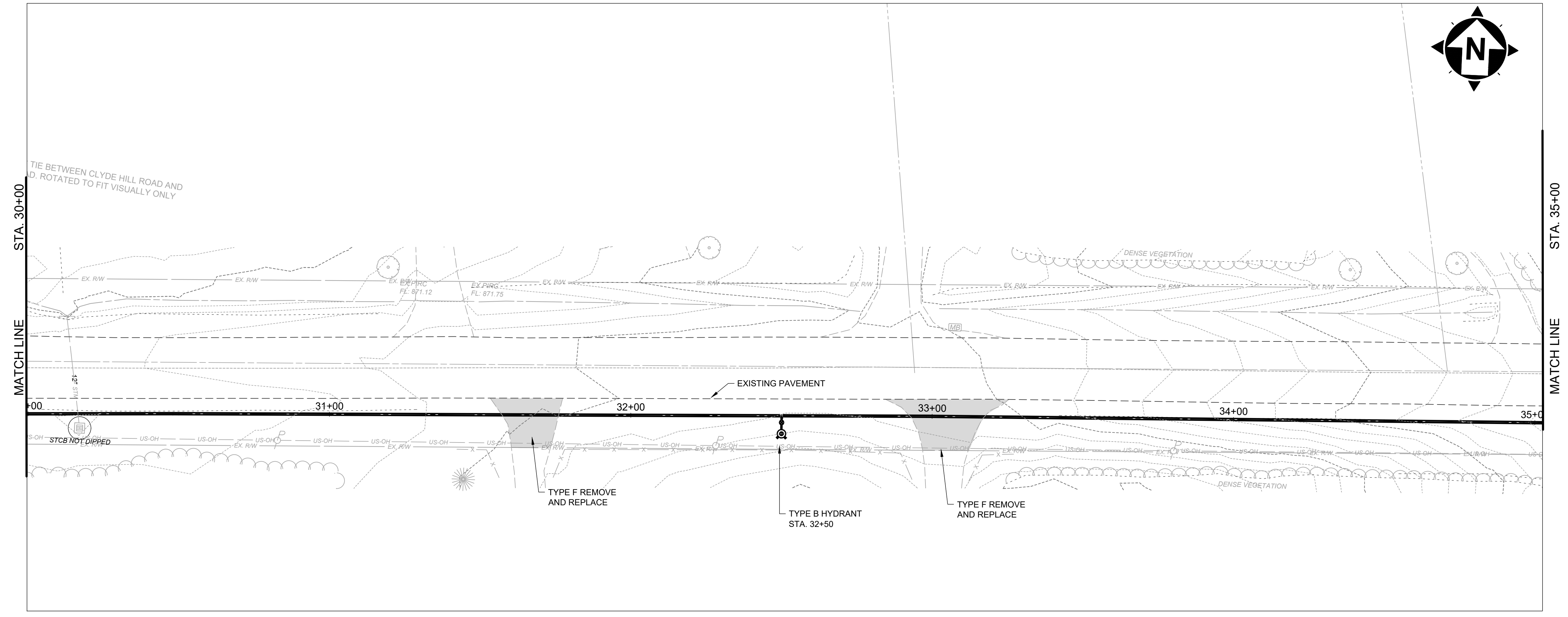
PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-06
SHEET	OF
15	39



NO	REVISION	DATE

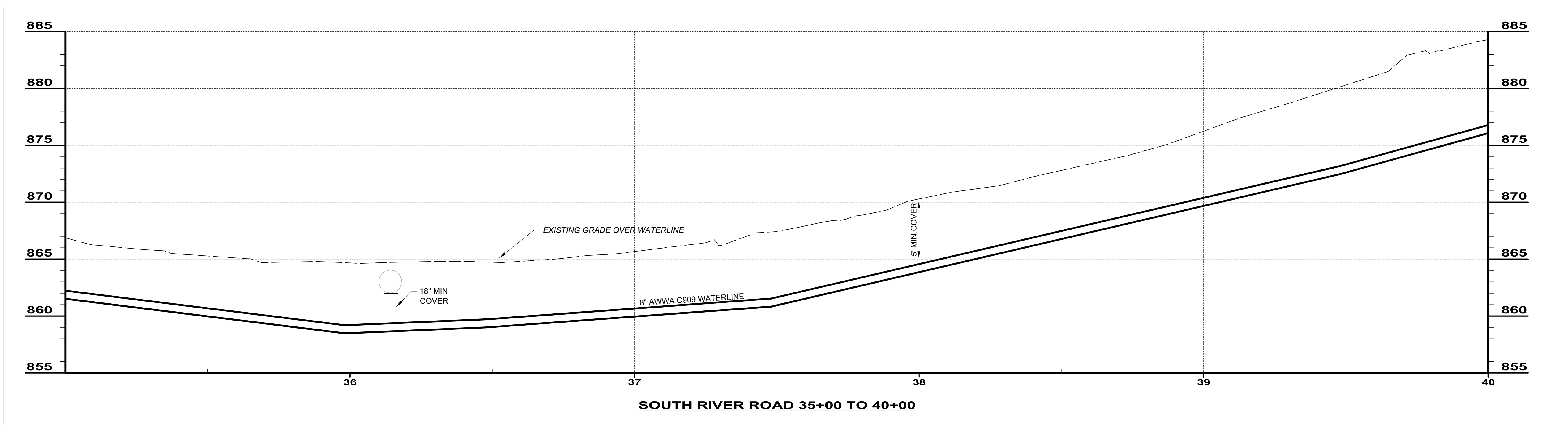
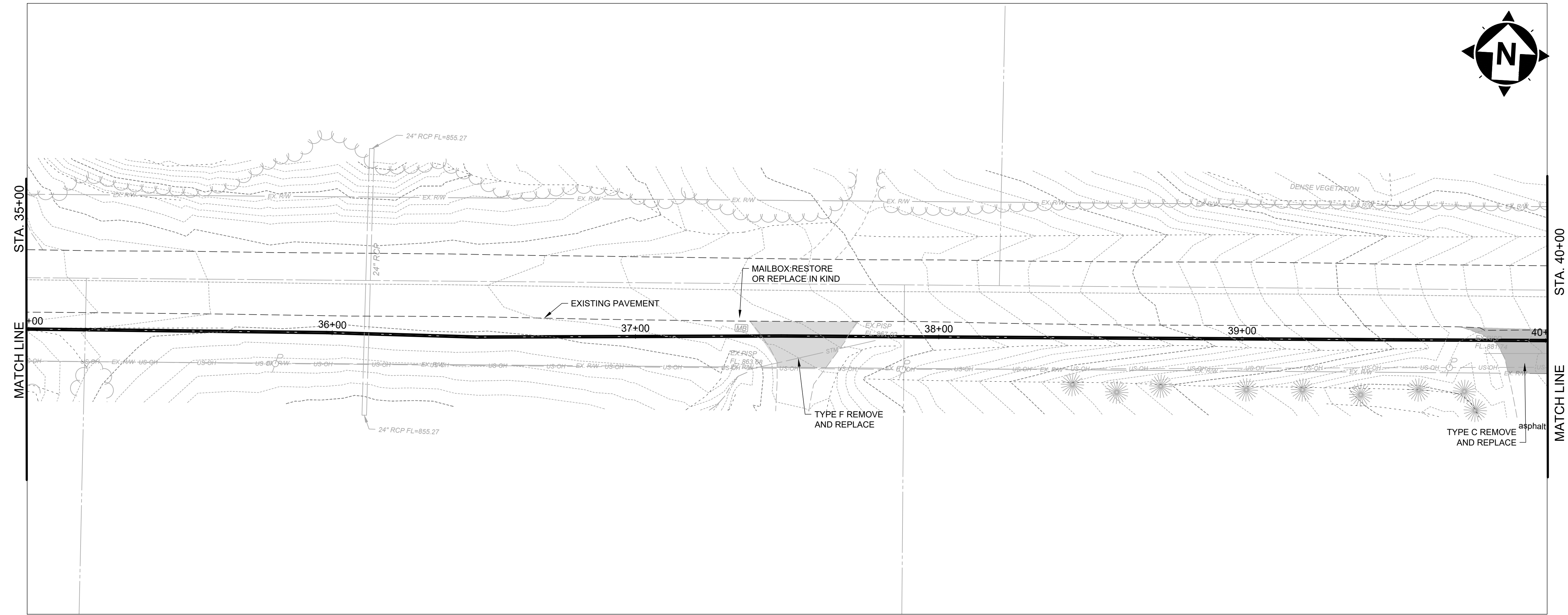
**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
**ASHTABULA COUNTY HARPERSFIELD, OHIO**  
**PLAN AND PROFILE - 10 SERIES**  
**SOUTH RIVER ROAD STA. 30+00 TO STA. 35+00**

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-07
SHEET	16
OF	39



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

**SOUTH RIVER ROAD 30+00 TO 35+00**



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

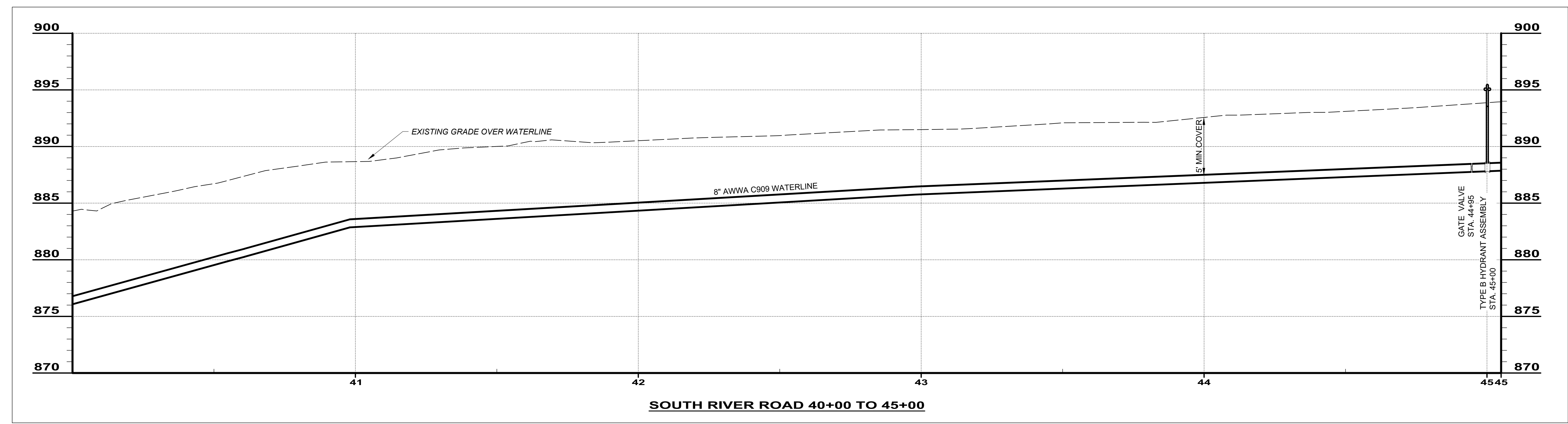
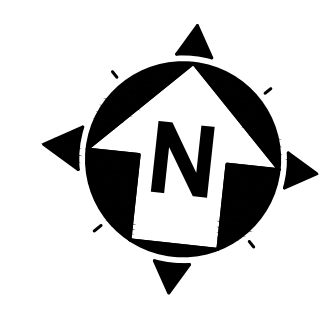
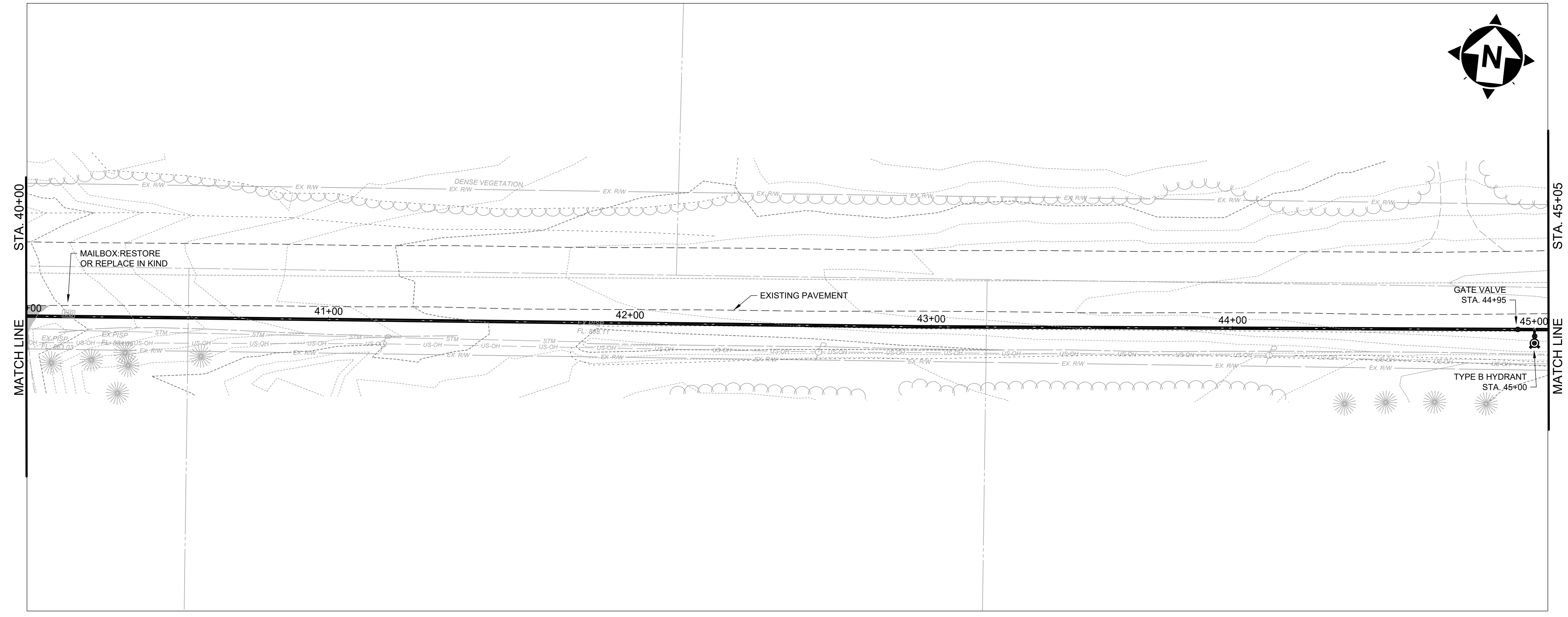
NO	REVISION	DATE

ISSUED FOR:	REVIEW SET
ISSUE DATE:	04/17/2024
SCALE:	AS NOTED
DESIGNED BY:	MLB
DRAWN BY:	MLB
CHECKED BY:	GBC

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERFILED, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 SOUTH RIVER ROAD STA. 35+00 TO STA. 40+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-08
SHEET	OF
17	39



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

NO	REVISION	DATE

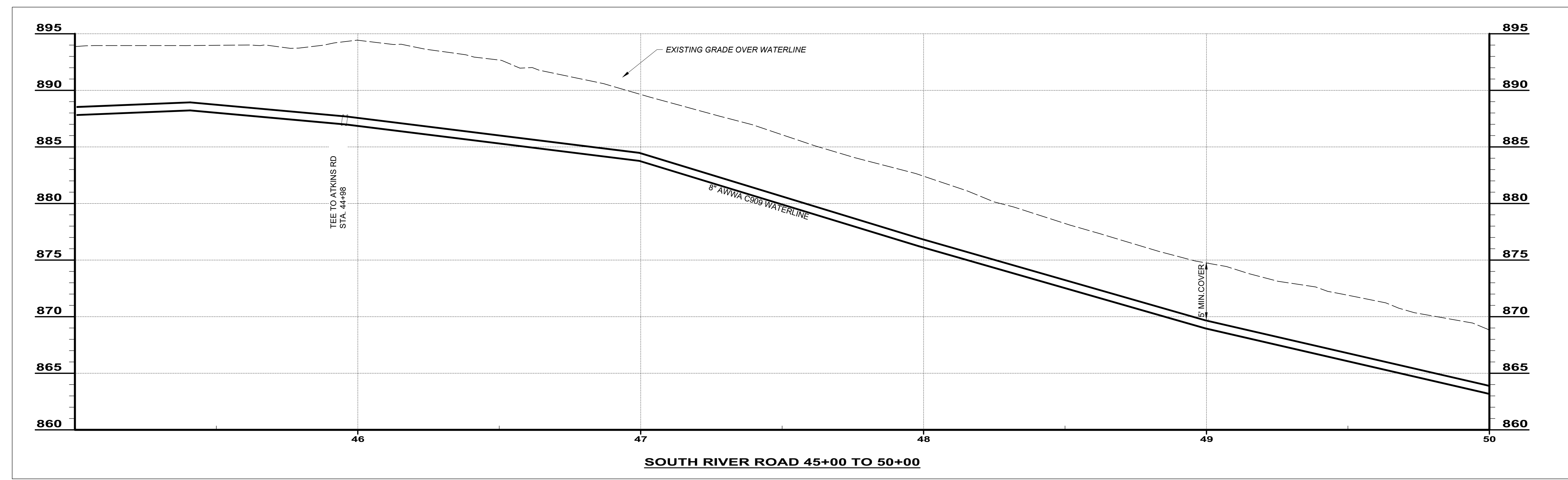
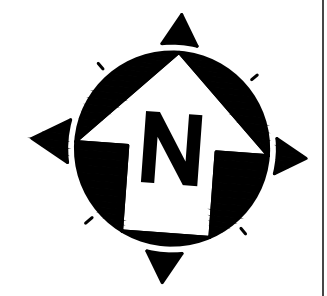
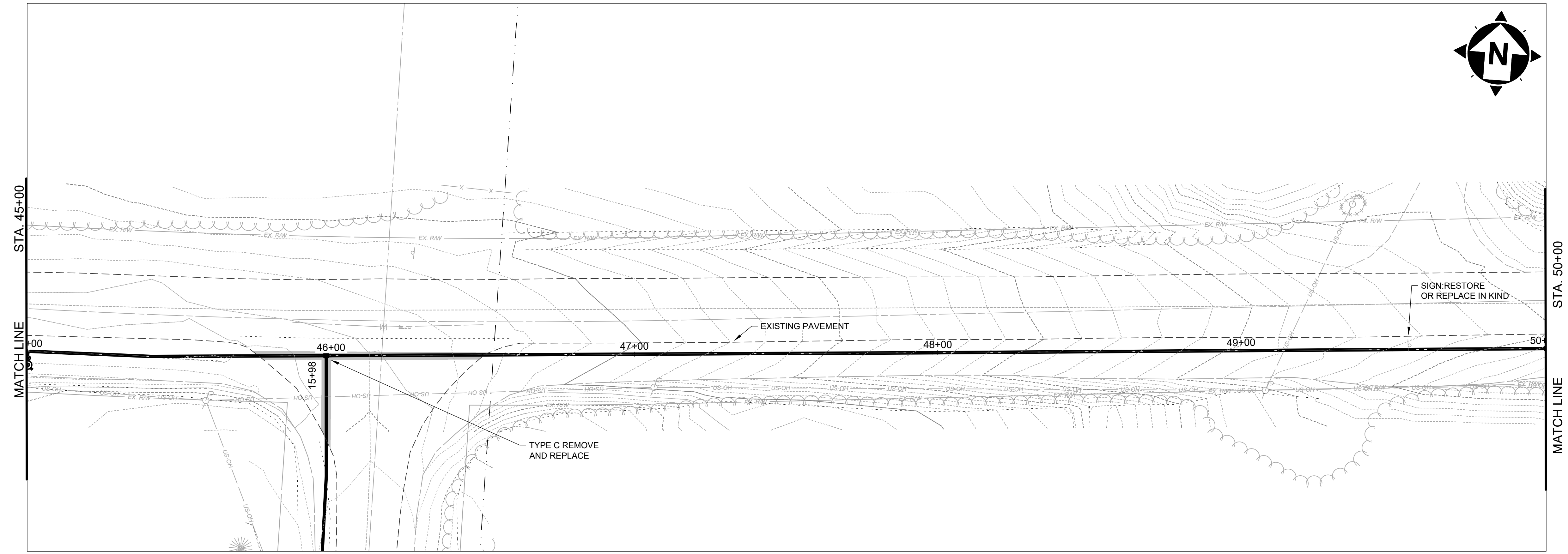
ISSUED FOR:	REVIEW SET

ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
04/17/2024	AS NOTED	MLB	MLB	GBC

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERFILED, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 SOUTH RIVER ROAD STA. 40+00 TO STA. 45+05

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-09
SHEET	OF
18	39



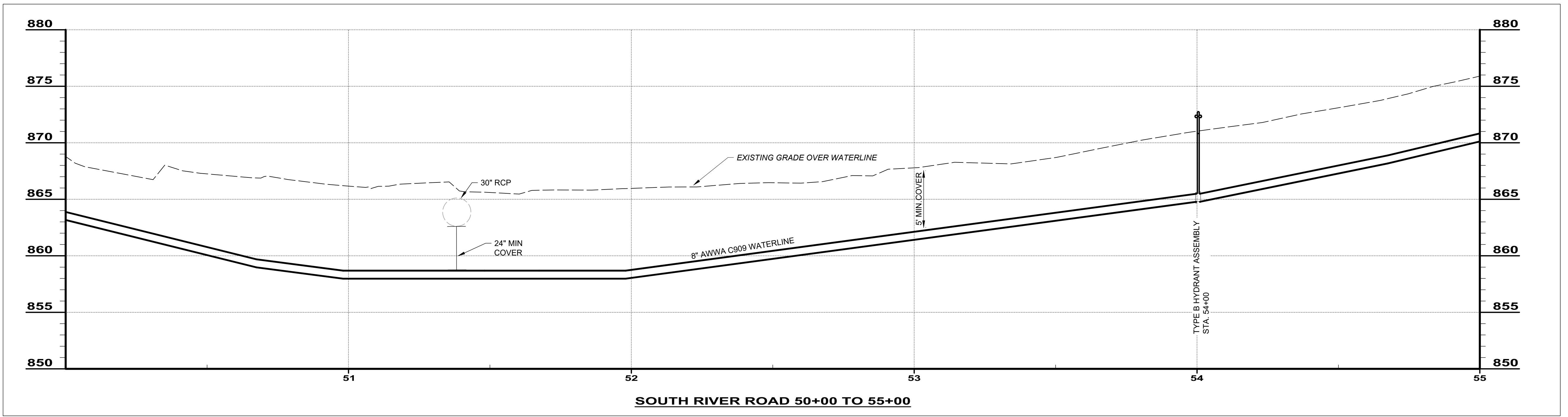
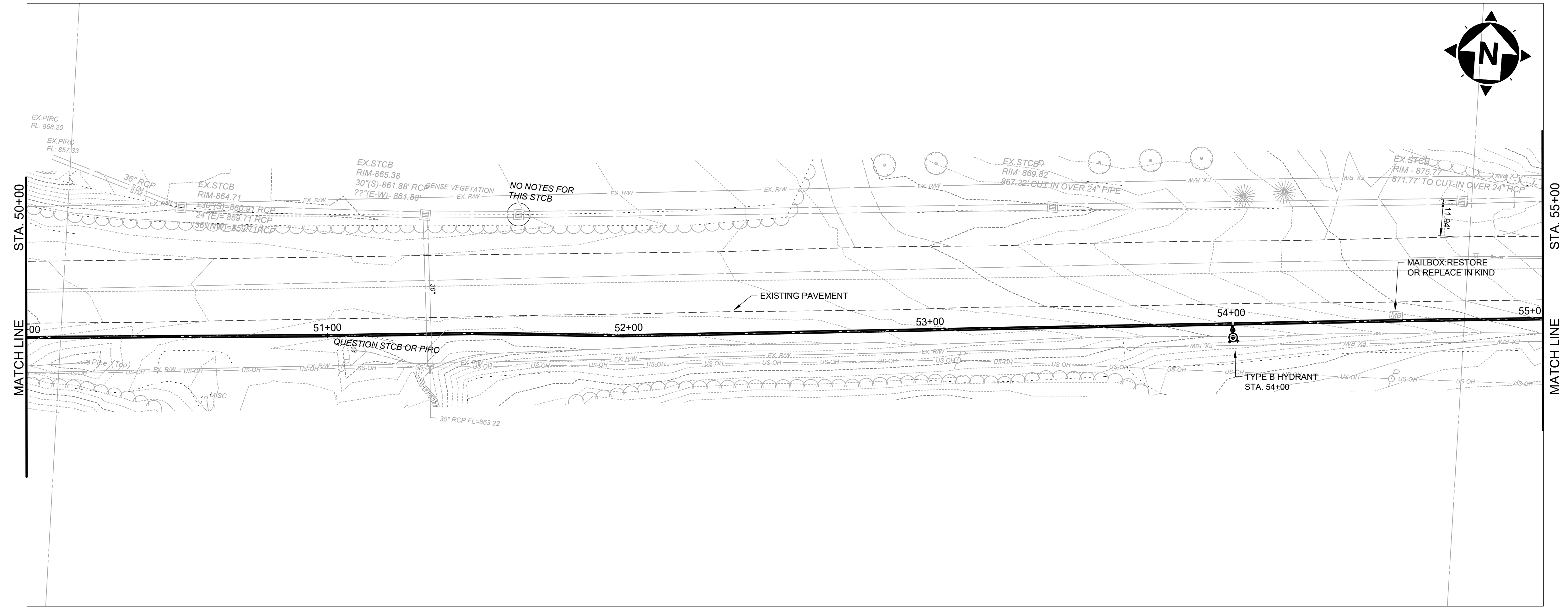
**SOUTH RIVER ROAD 45+00 TO 50+00**

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

NO	REVISION	DATE

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERFILED, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 SOUTH RIVER ROAD STA. 45+00 TO STA. 50+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-10
SHEET	OF
19	39



**SOUTH RIVER ROAD 50+00 TO 55+00**

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

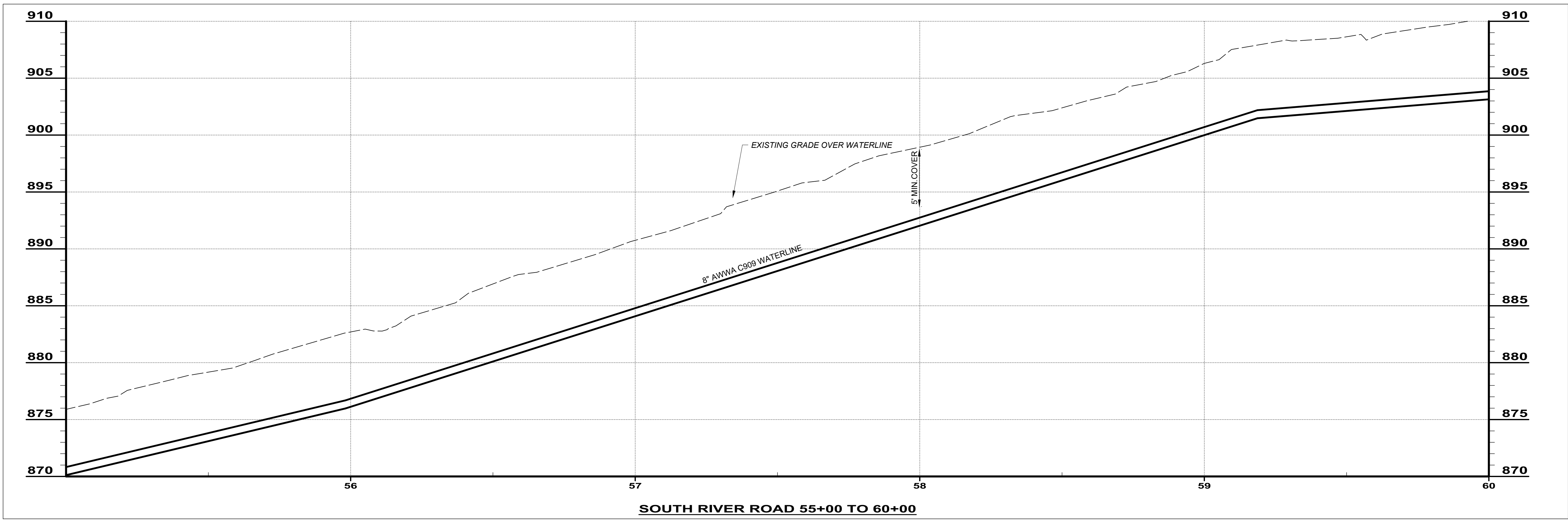
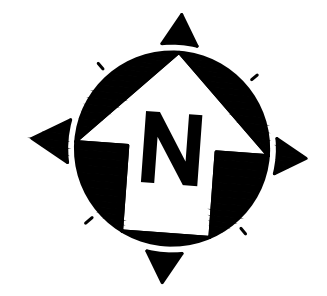
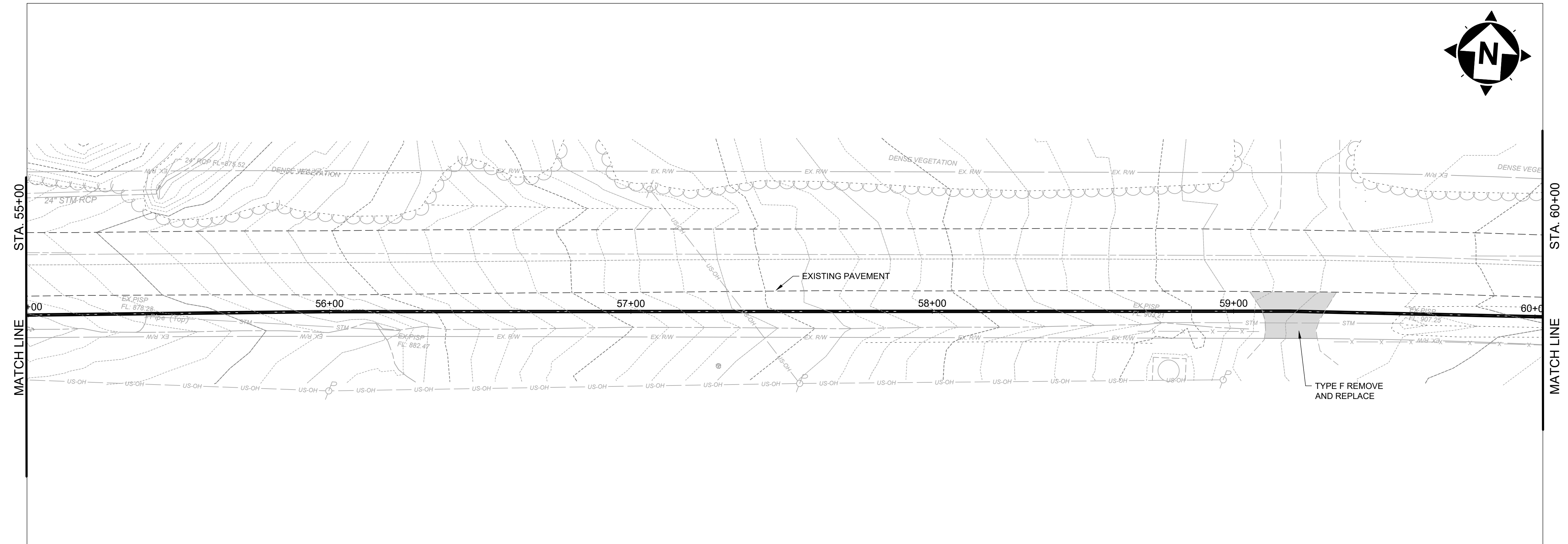
NO	REVISION	DATE

ISSUED FOR:	REVIEW SET
ISSUE DATE:	04/17/2024
SCALE:	AS NOTED
DESIGNED BY:	MLB
DRAWN BY:	MLB
CHECKED BY:	GBC

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERFILED, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 SOUTH RIVER ROAD STA. 50+00 TO STA. 55+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-11
SHEET	20
OF	39



**SOUTH RIVER ROAD 55+00 TO 60+00**

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

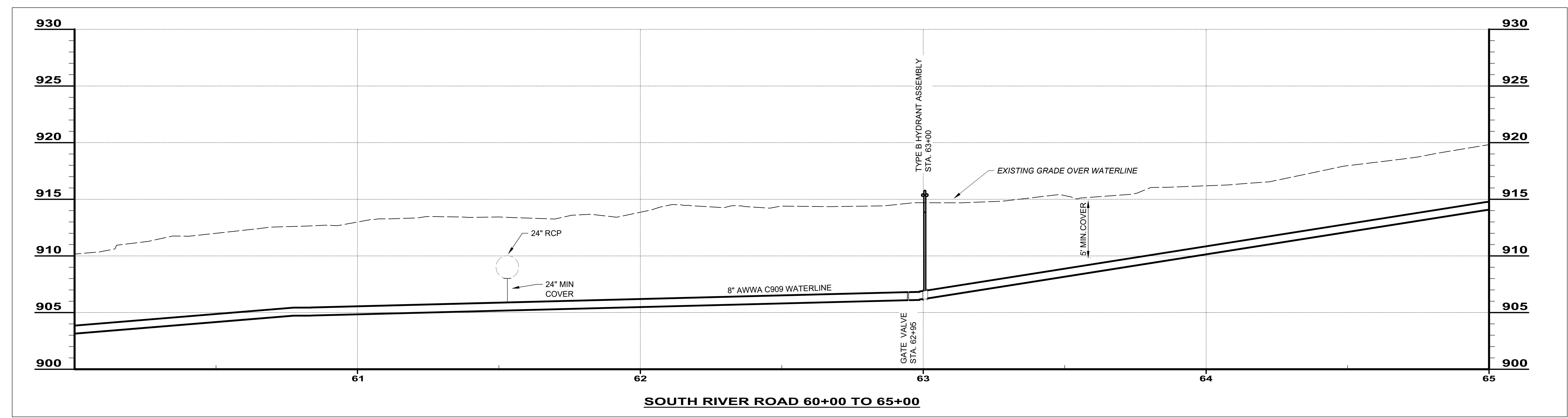
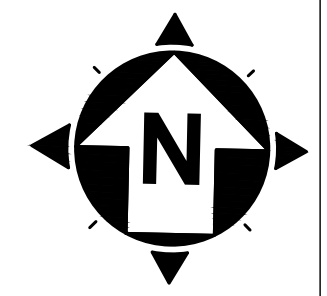
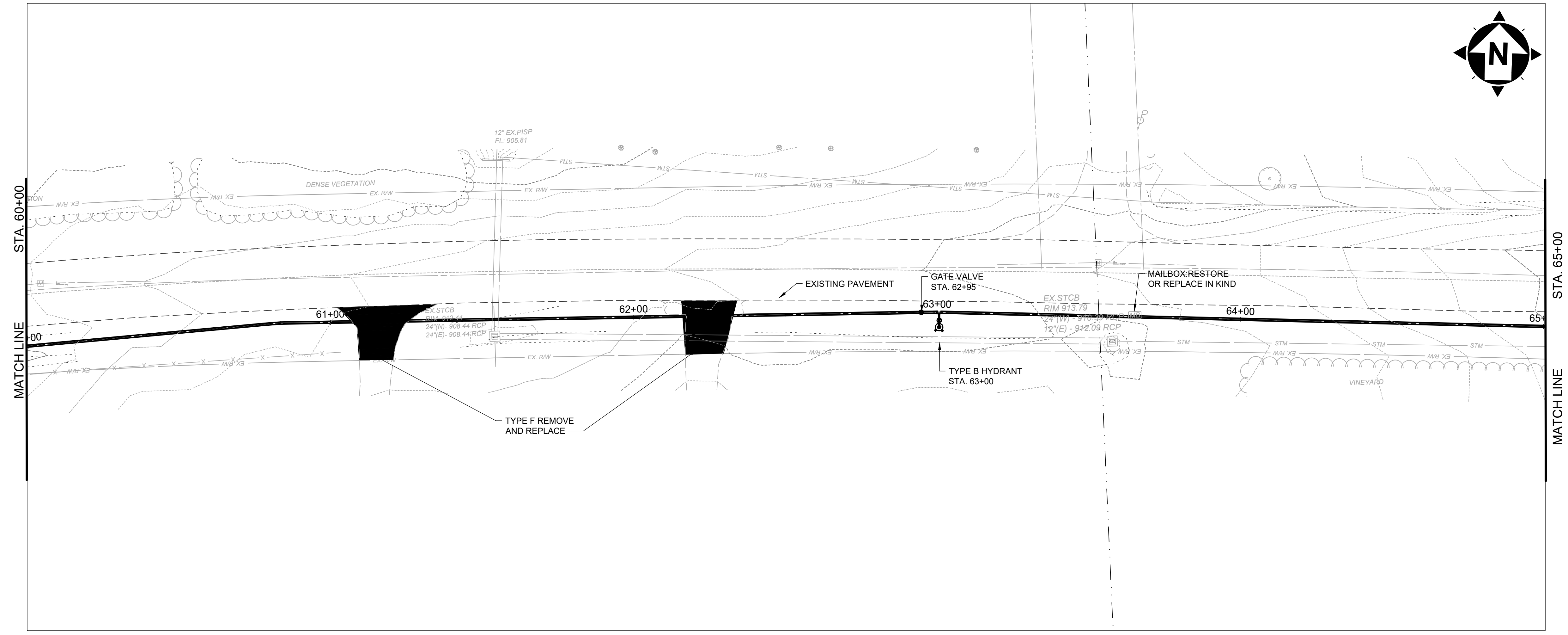
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ISSUED FOR:	REVIEW SET
ISSUE DATE:	04/17/2024
SCALE:	AS NOTED
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CHECKED BY:	GBC

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERFILED, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 SOUTH RIVER ROAD STA. 55+00 TO STA. 60+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-12
SHEET	OF
21	39



**SOUTH RIVER ROAD 60+00 TO 65+00**

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

NO	REVISION	DATE

ISSUED FOR:	REVIEW SET

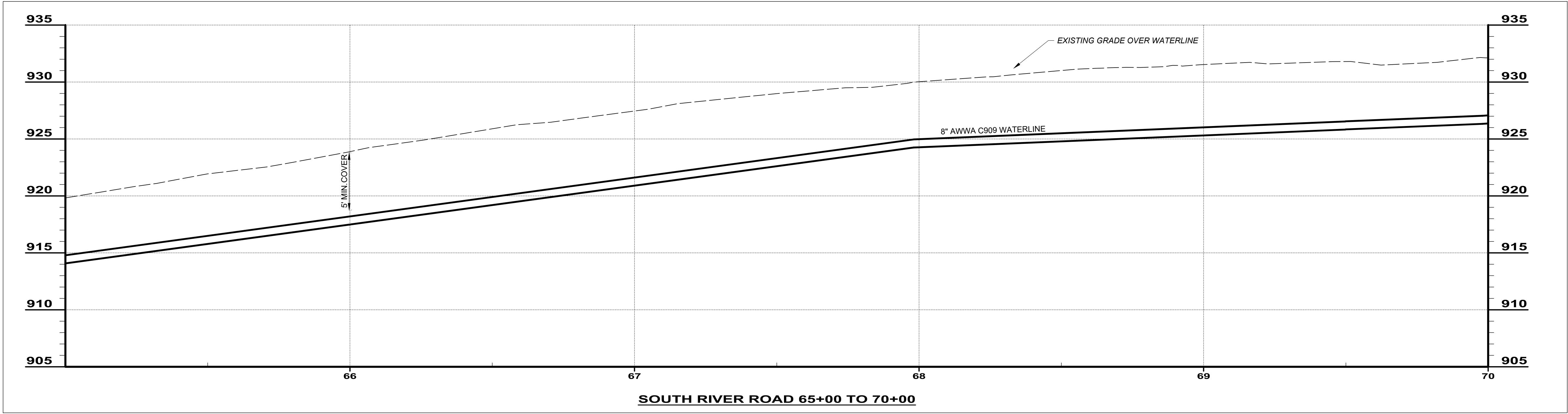
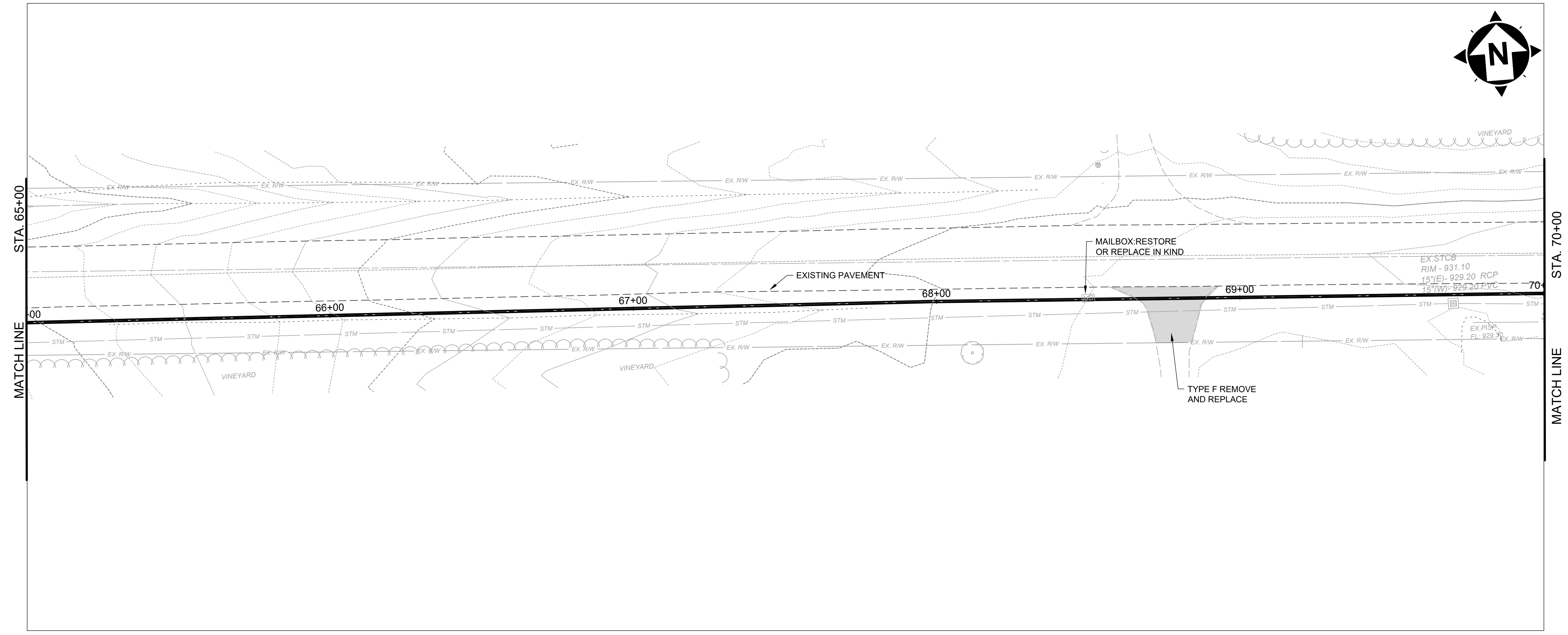
ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
04/17/2024	AS NOTED			

NO	REVISION	DATE

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERSFIELD, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 SOUTH RIVER ROAD STA. 60+00 TO STA. 65+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-13
SHEET	22
OF	39



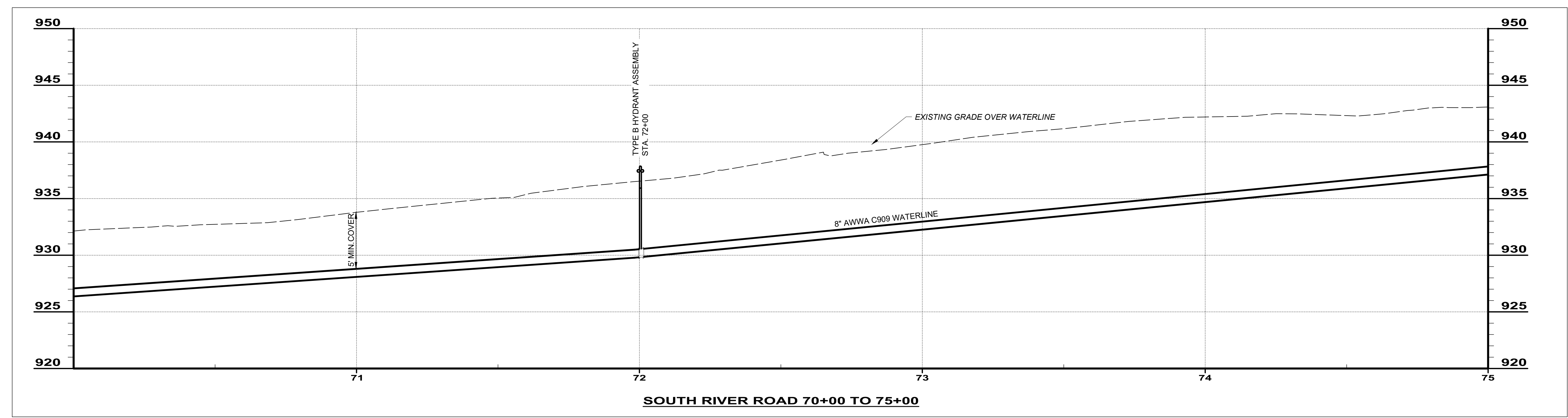
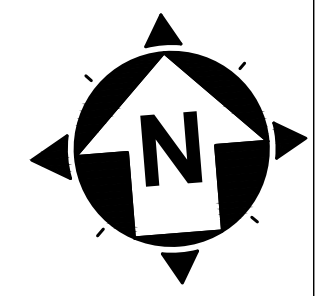
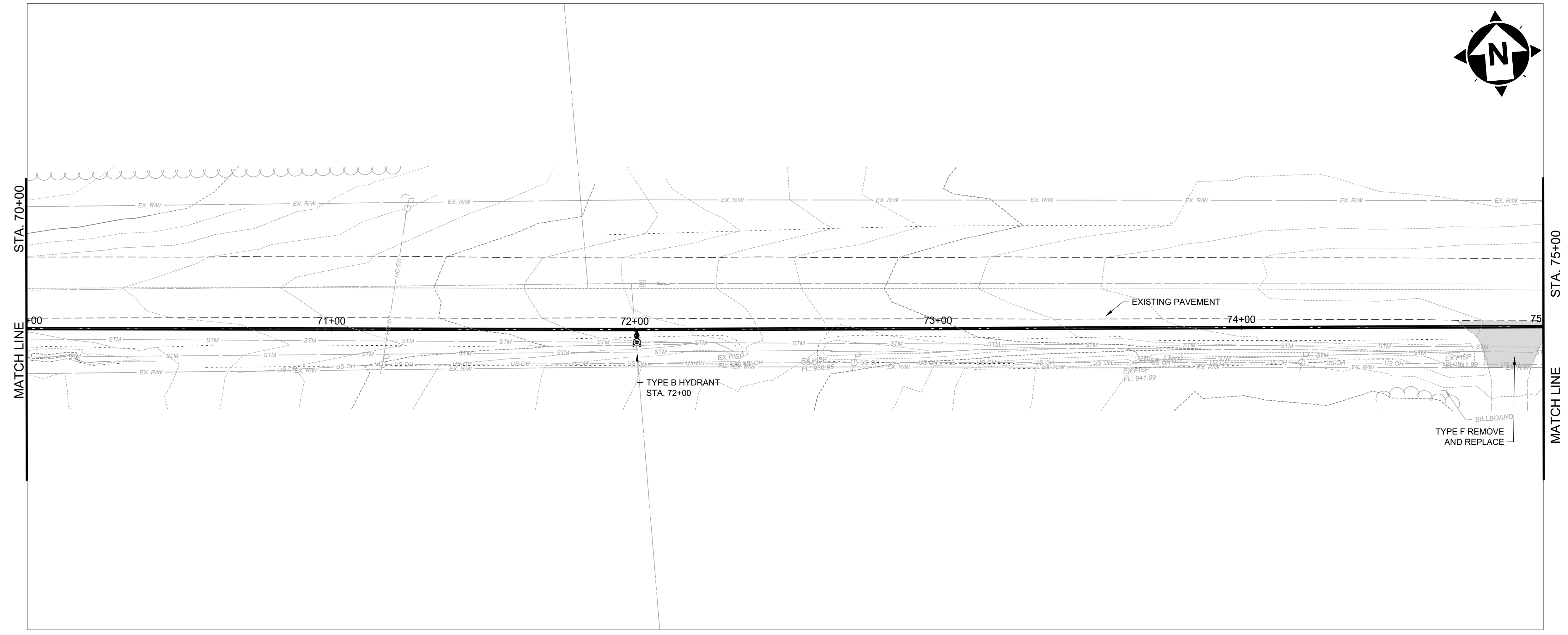
**SOUTH RIVER ROAD 65+00 TO 70+00**

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

NO	REVISION	DATE

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERSFIELD, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 SOUTH RIVER ROAD STA. 65+00 TO STA. 70+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-14
SHEET	23
OF	39



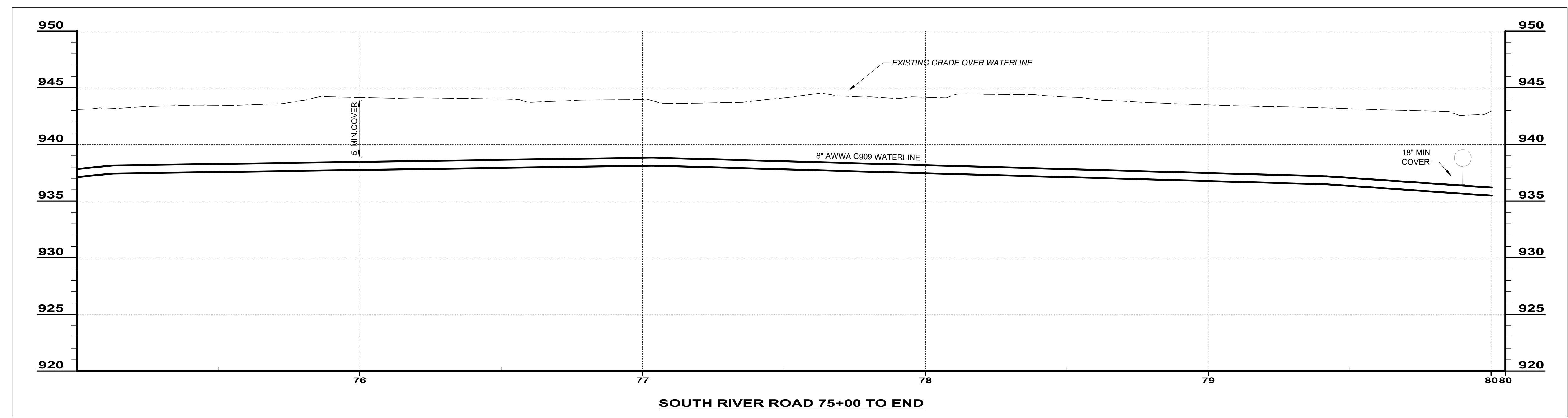
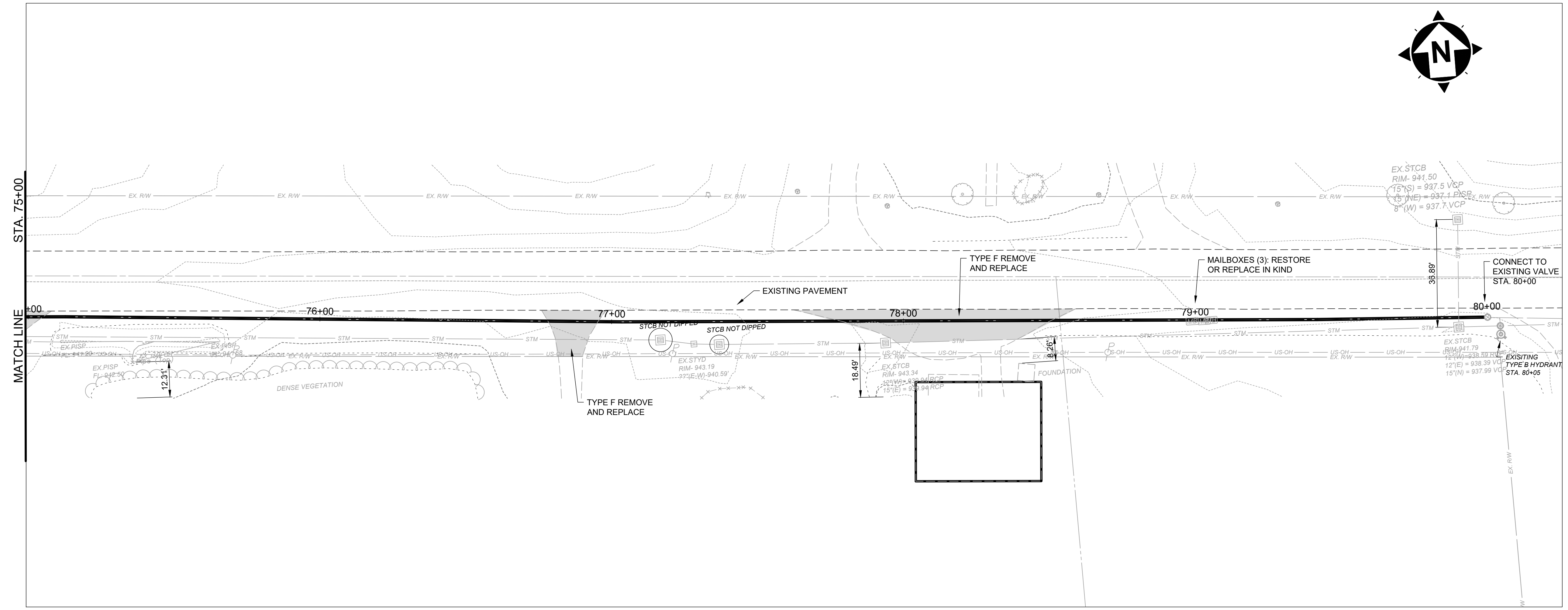
**SOUTH RIVER ROAD 70+00 TO 75+00**

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

NO	REVISION	DATE

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERFILED, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 SOUTH RIVER ROAD STA. 70+00 TO STA. 75+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-15
SHEET	24
OF	39



**SOUTH RIVER ROAD 75+00 TO END**

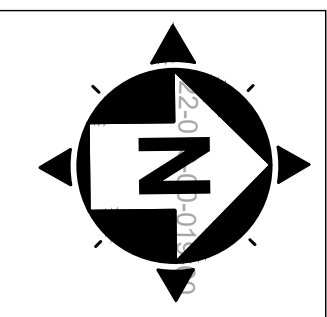
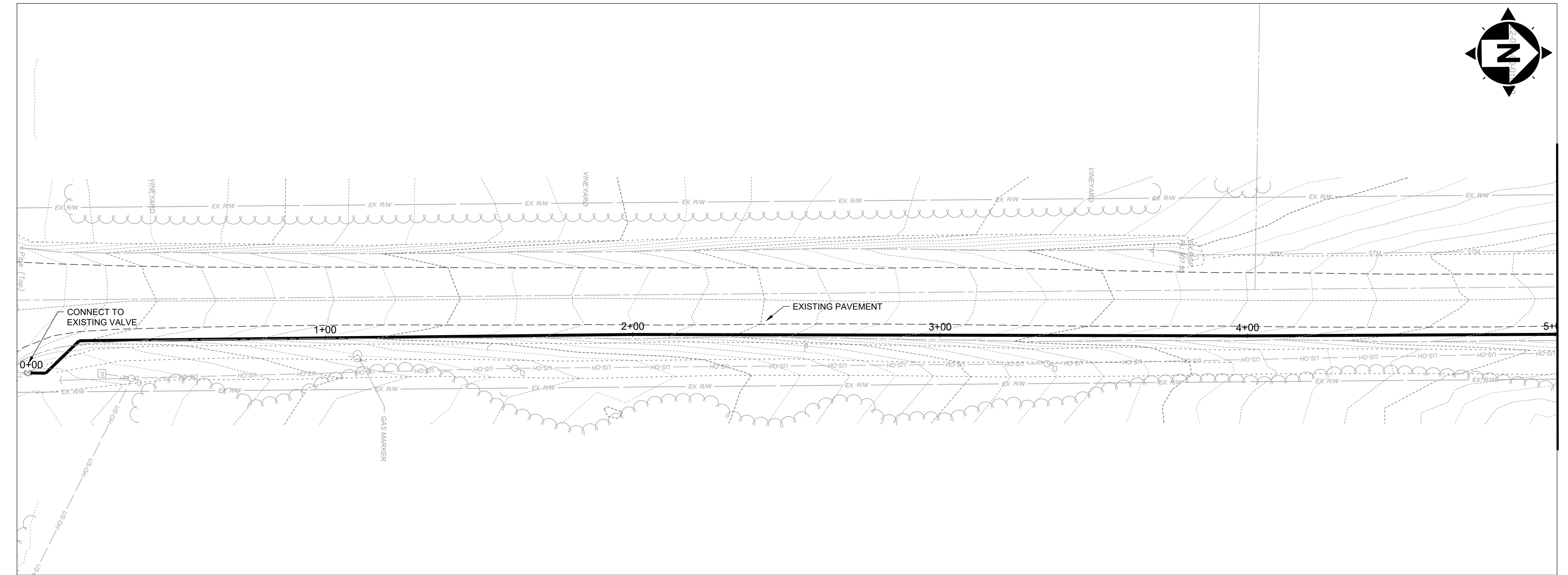
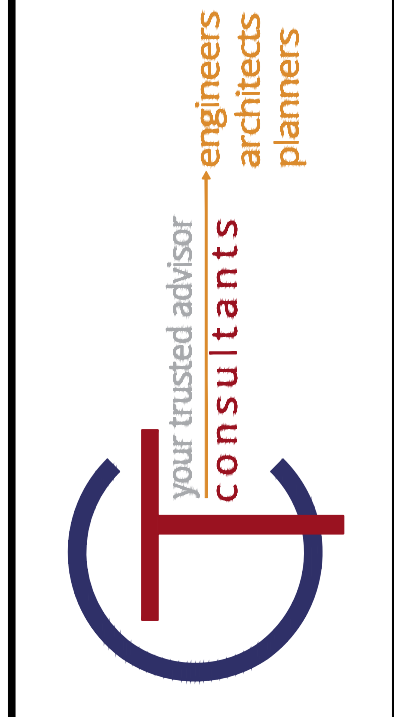
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NO	REVISION	DATE

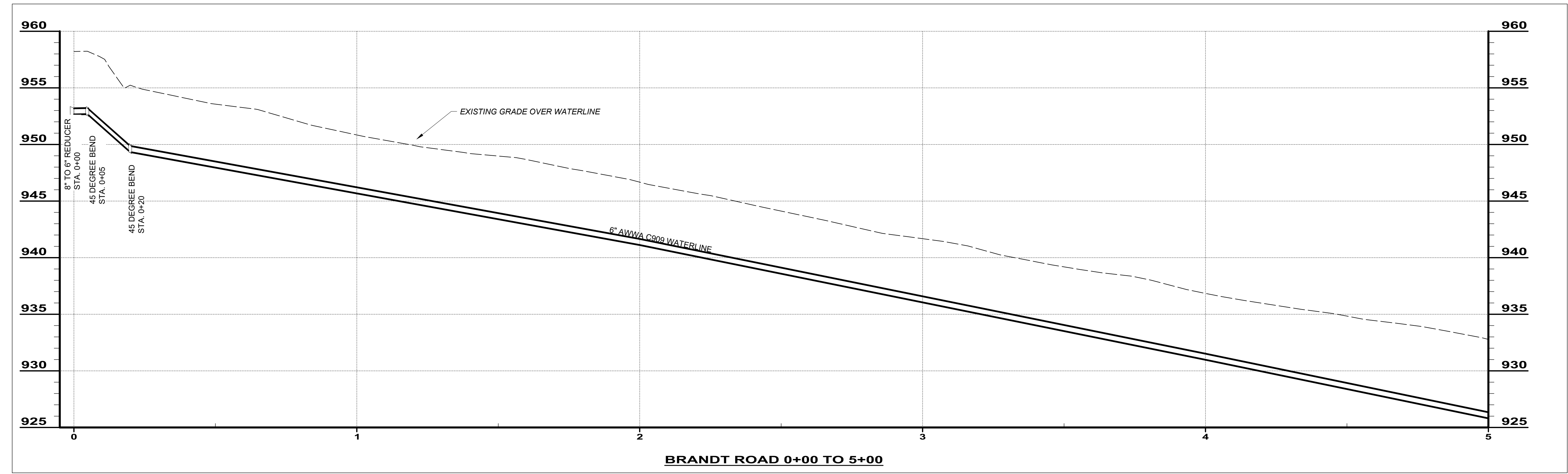
ISSUED FOR:	REVIEW SET
ISSUE DATE:	04/17/2024
SCALE:	AS NOTED
DESIGNED BY:	MLB
DRAWN BY:	MLB
CHECKED BY:	GBC

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
**ASHTABULA COUNTY HARPERSFIELD, OHIO**  
**PLAN AND PROFILE - 10 SERIES**  
**SOUTH RIVER ROAD STA. 75+00 TO END**

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-16
SHEET	25
OF	39



MATCH LINE  
STA. 5+00



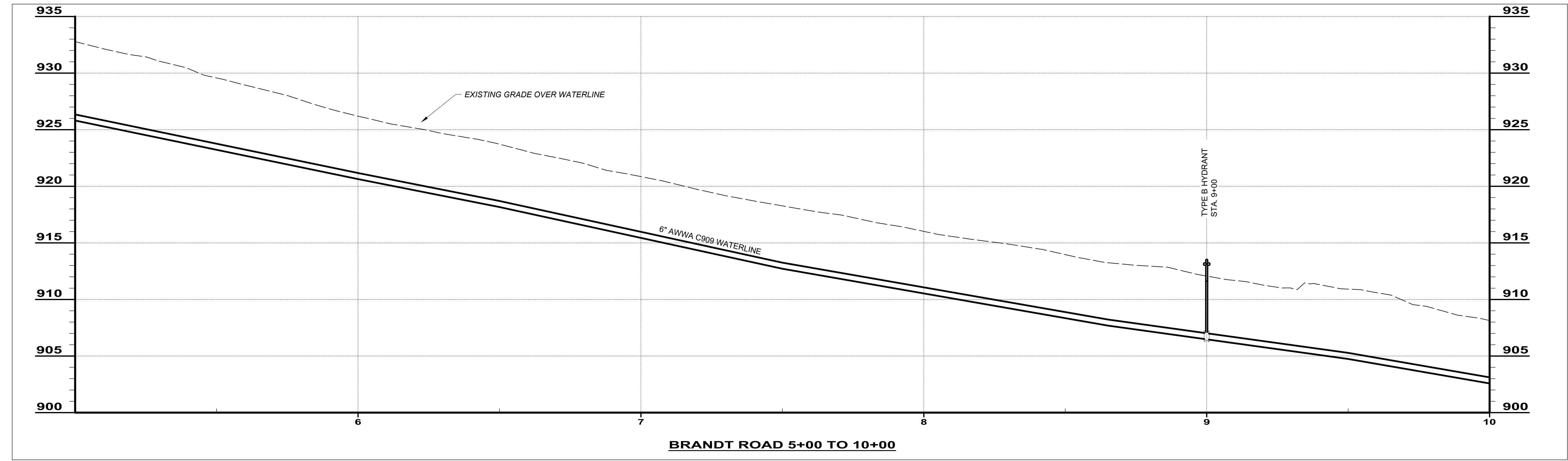
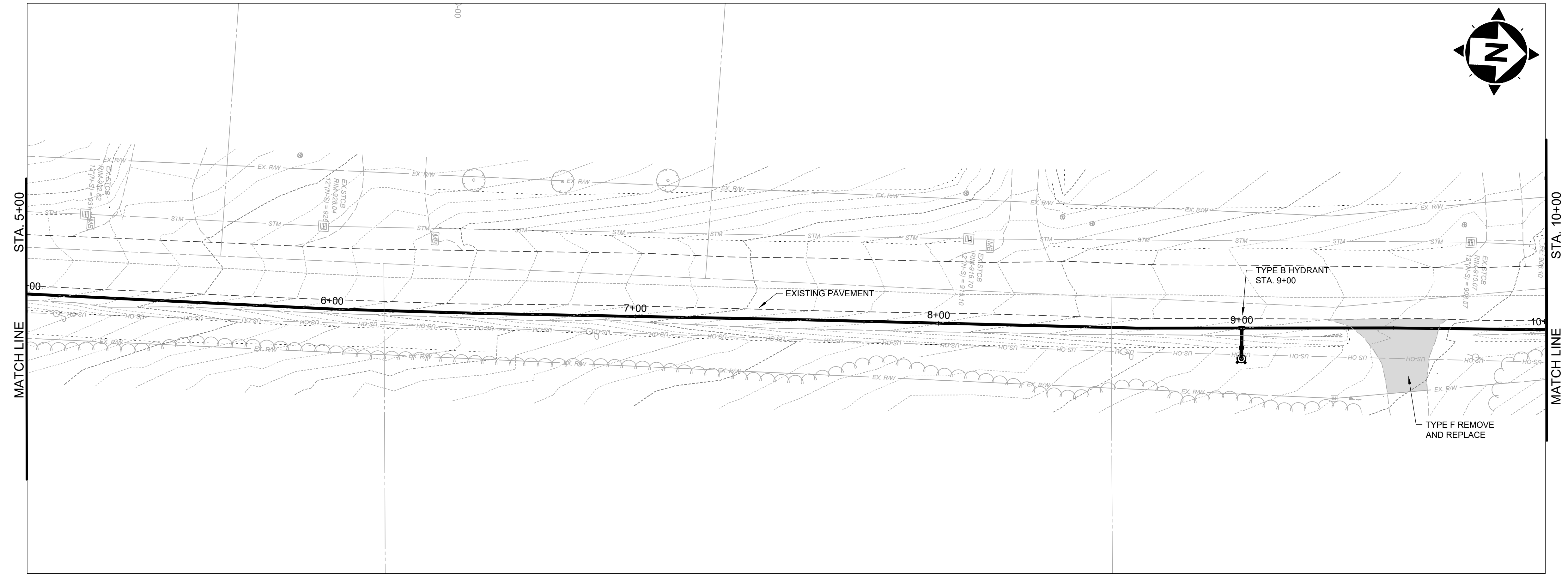
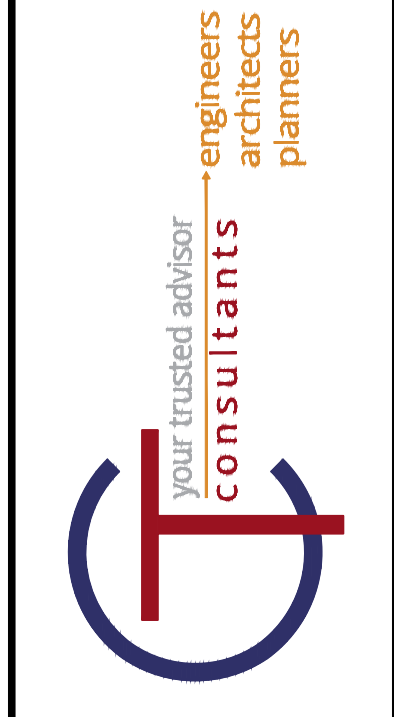
**BRANDT ROAD 0+00 TO 5+00**

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

NO.	REVISION	DATE

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERFILED, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 BRANDT ROAD STA. 0+00 TO STA 5+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-17
SHEET	26
OF	39

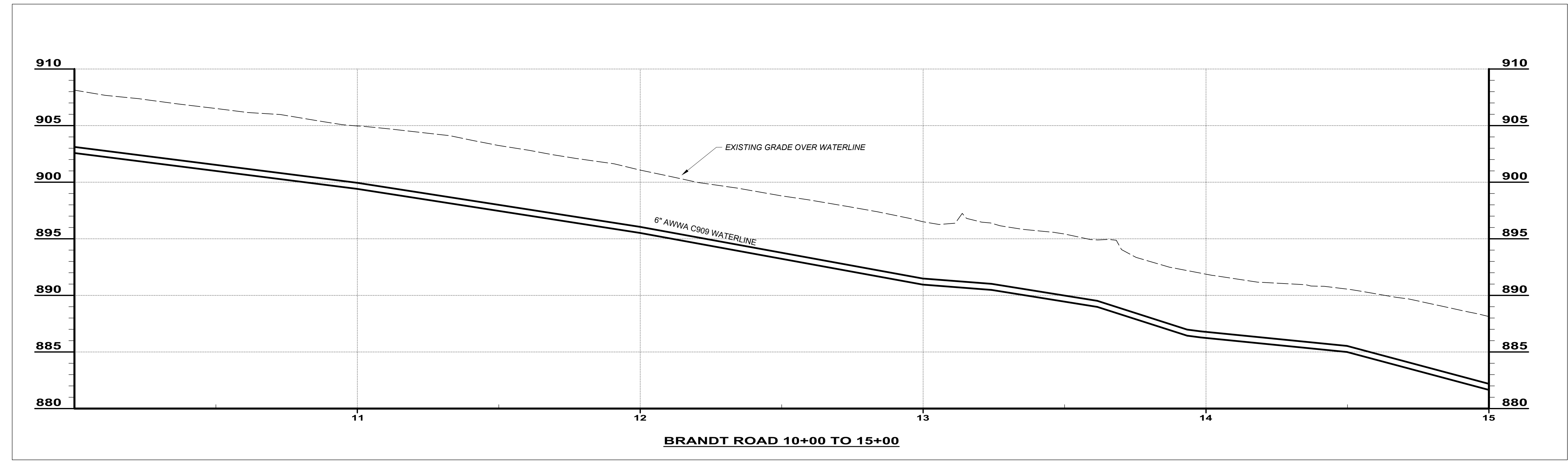
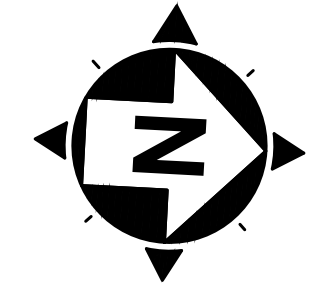
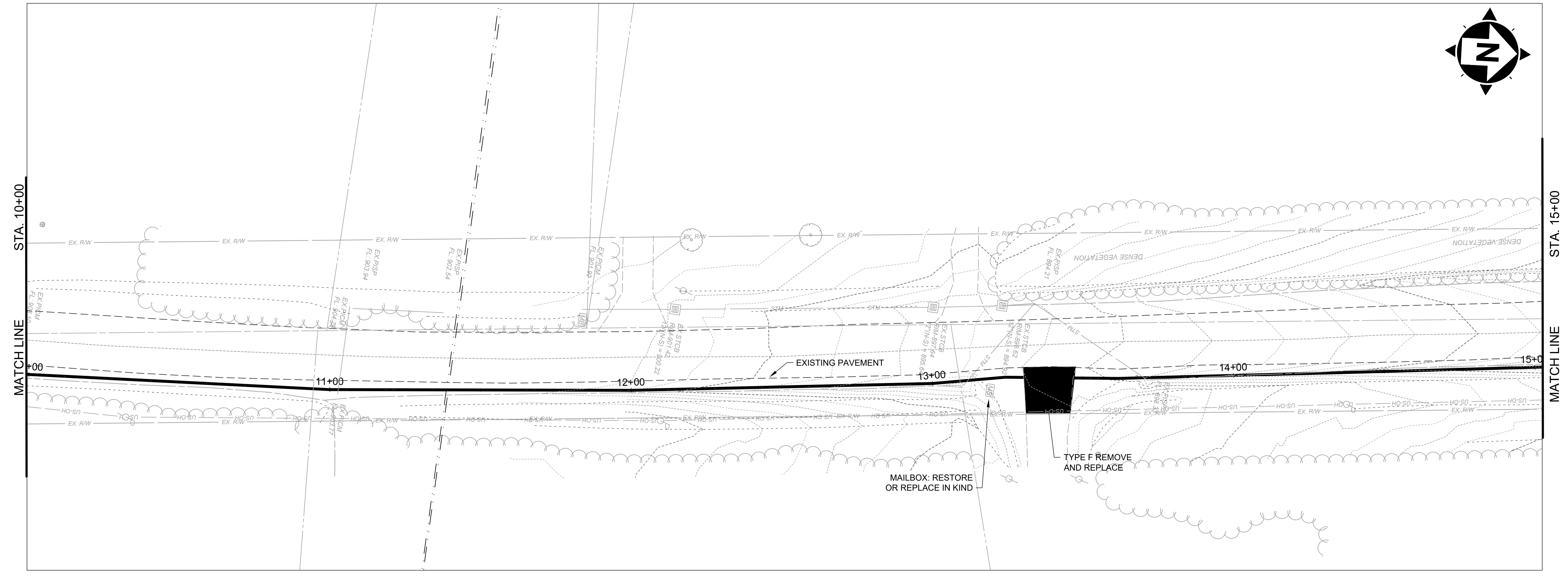


SCALE: HORIZ. 1" = 20'  
VERT. 1" = 5'

NO	REVISION	DATE

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
**ASHTABULA COUNTY HARPERSFIELD, OHIO**  
**PLAN AND PROFILE - 10 SERIES**  
**BRANDT ROAD STA 5+00 TO STA 10+00**

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-18
SHEET	27
OF	39

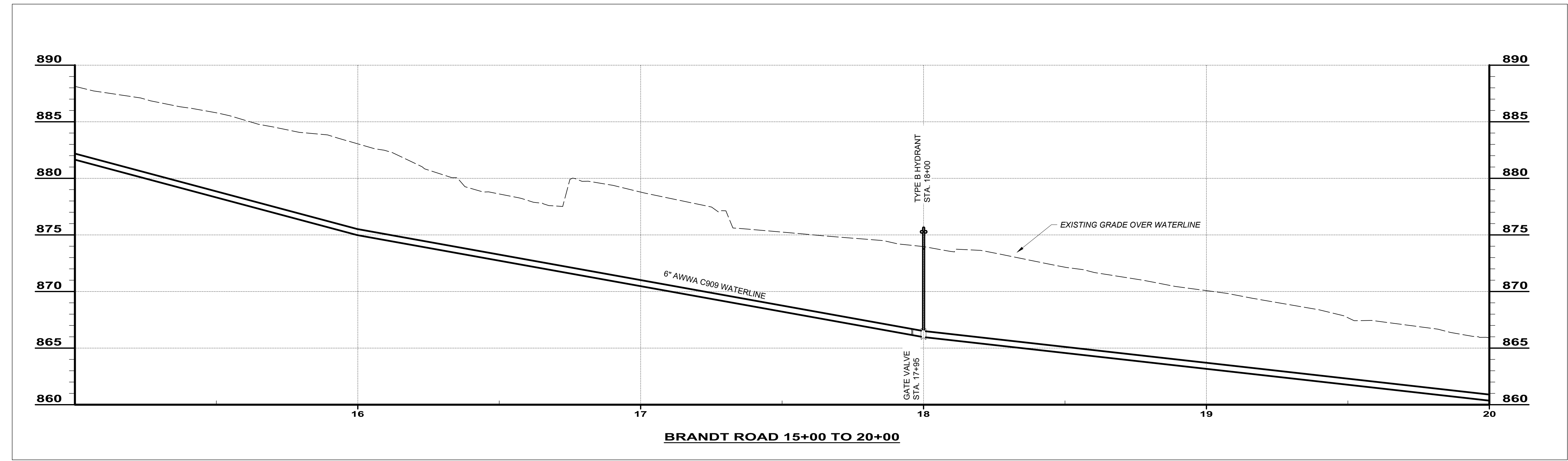
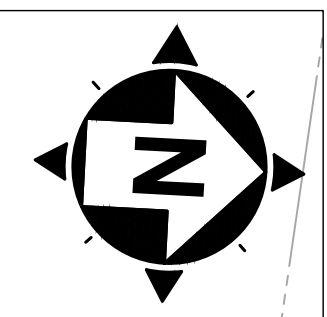
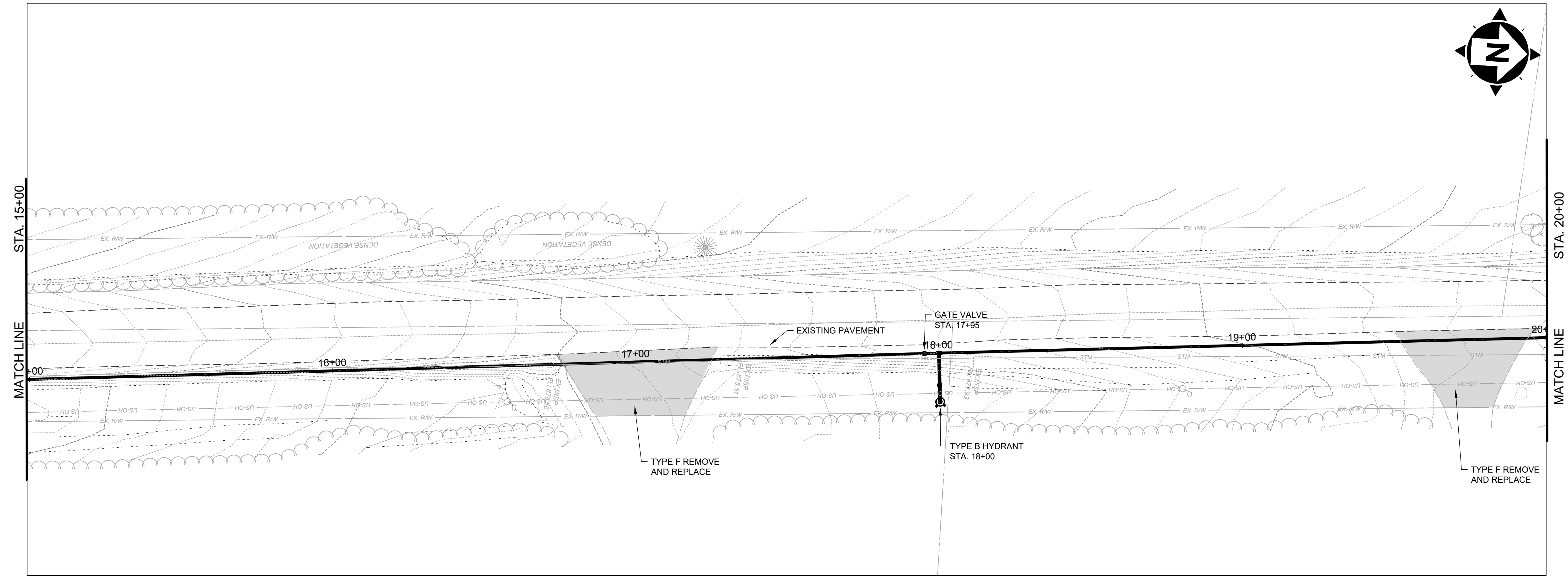


SCALE: HORIZ. 1" = 20'  
VERT. 1" = 5'

NO	REVISION	DATE

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERFILED, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 BRANDT ROAD STA. 10+00 TO STA. 15+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-19
SHEET	28
OF	39



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

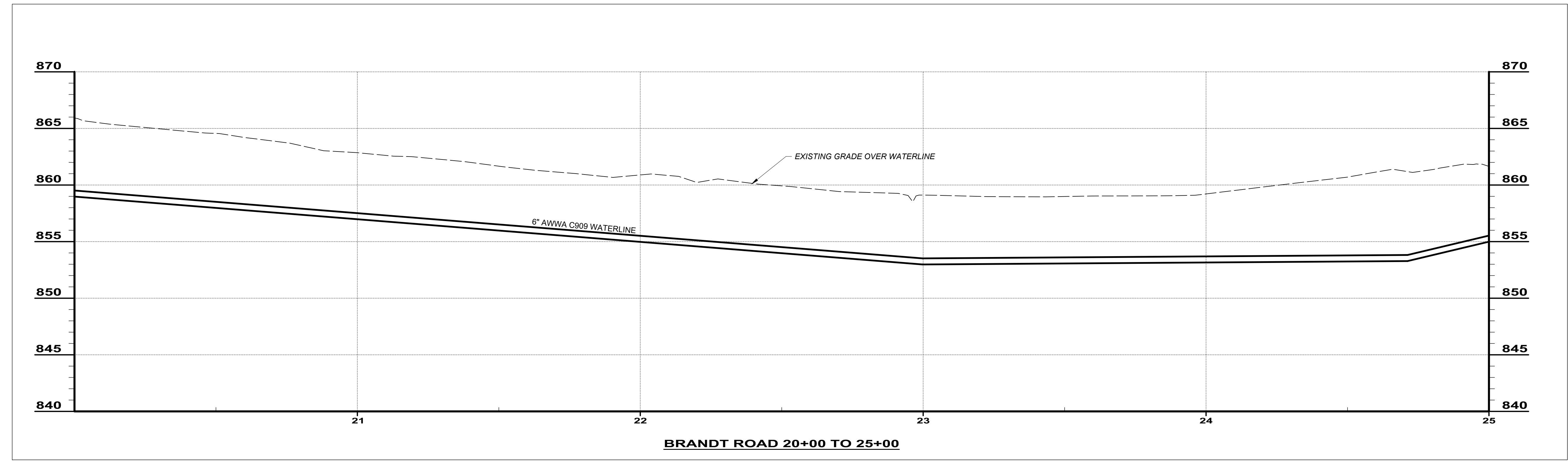
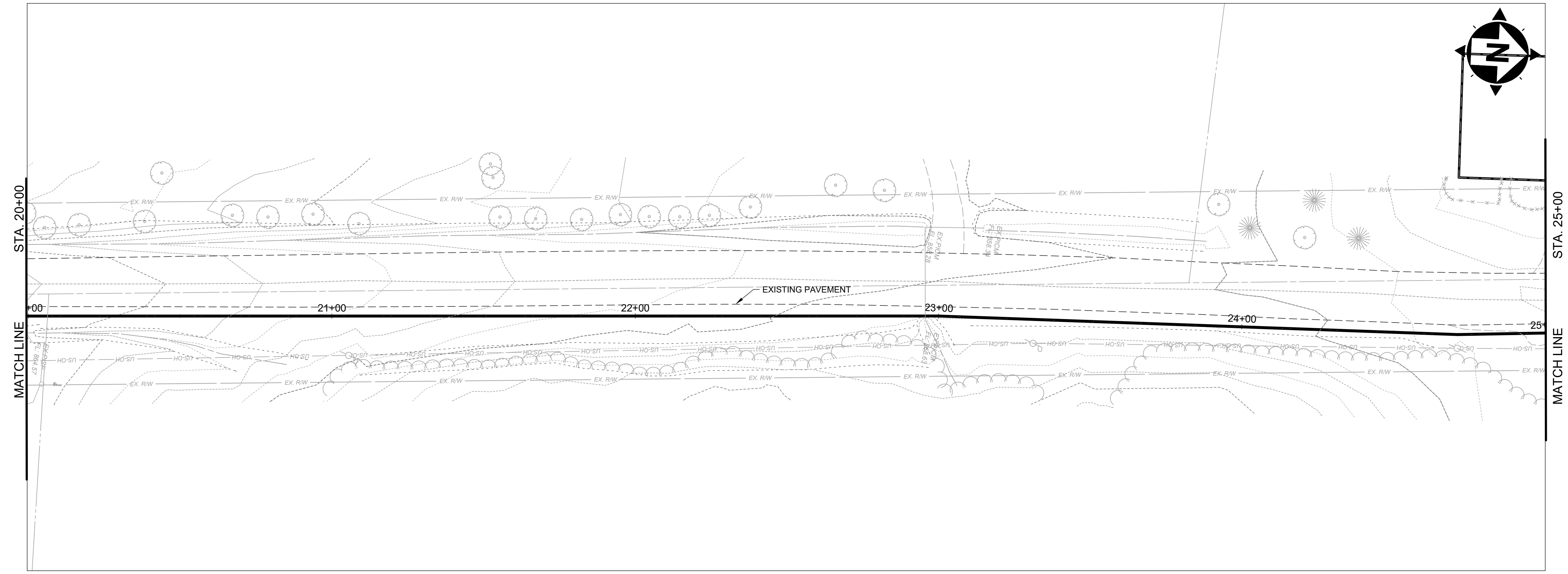
NO	REVISION	DATE

ISSUED FOR:	REVIEW SET
ISSUE DATE:	04/17/2024
SCALE:	AS NOTED
DESIGNED BY:	MLB
DRAWN BY:	MLB
CHECKED BY:	GBC

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERSFIELD, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 BRANDT ROAD STA. 15+00 TO STA. 20+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-20
SHEET	OF
29	39

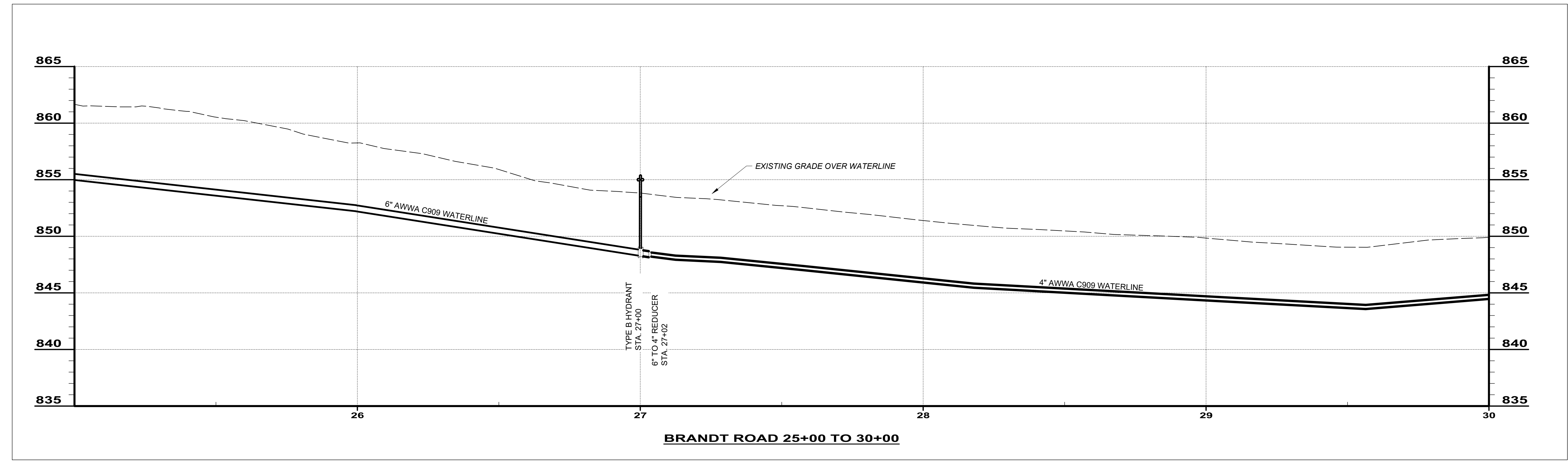
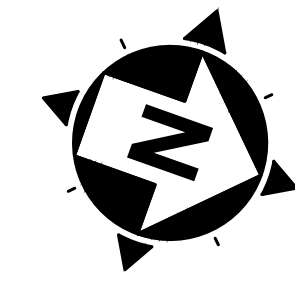
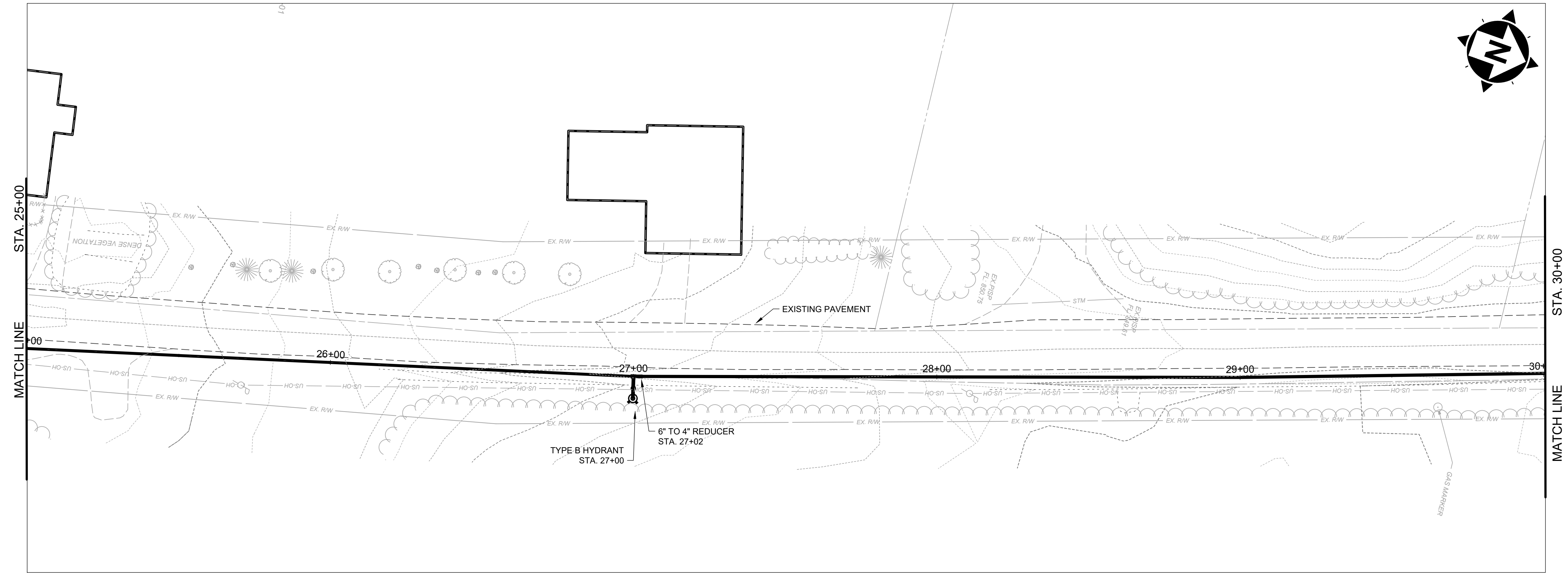


SCALE: HORIZ. 1" = 20'  
VERT. 1" = 5'

NO	REVISION	DATE

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERSFIELD, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 BRANDT ROAD STA. 20+00 TO STA. 25+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-21
SHEET	OF
30	39



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

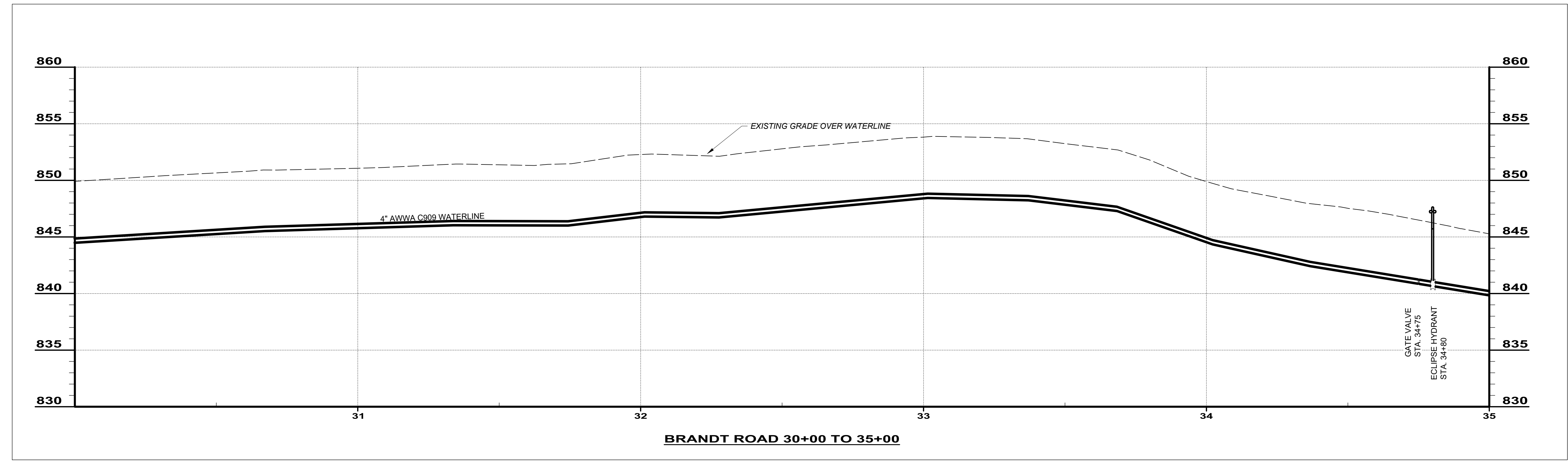
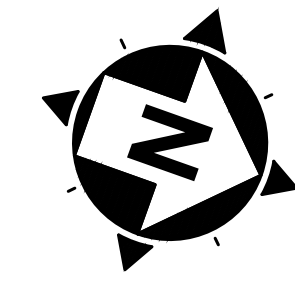
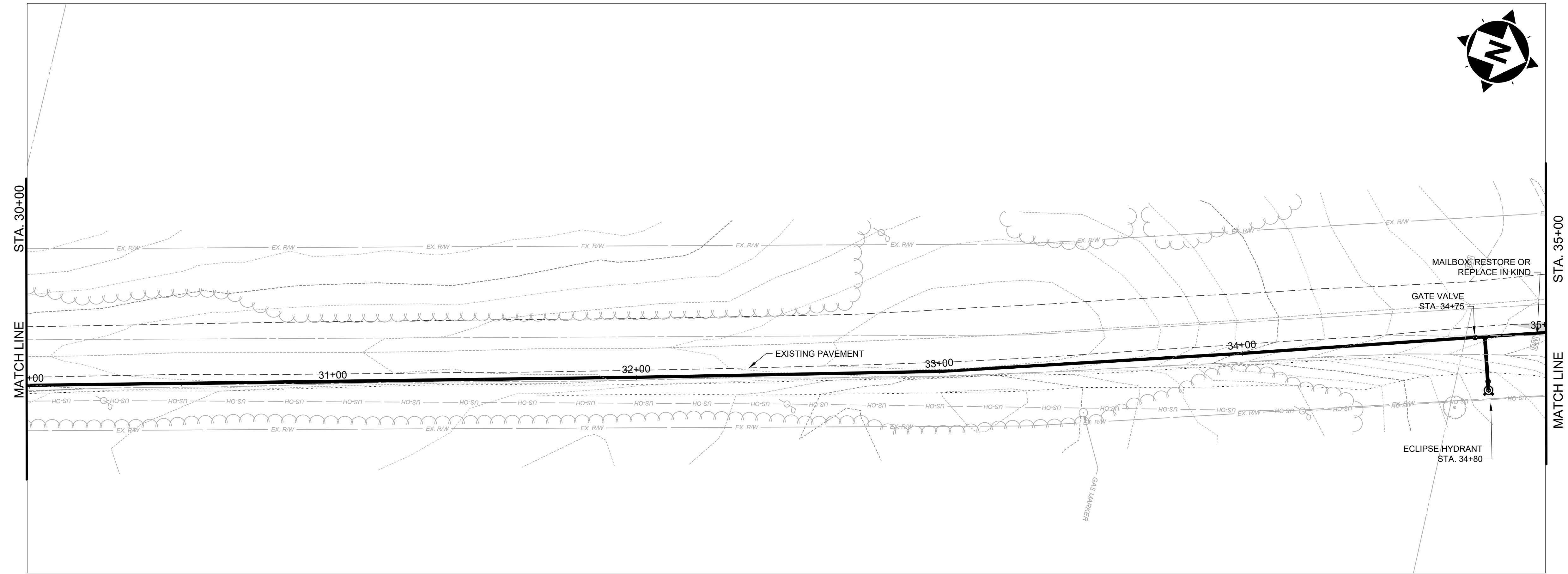
NO.	REVISION	DATE

ISSUED FOR:	REVIEW SET
ISSUE DATE:	04/17/2024
SCALE:	AS NOTED
DESIGNED BY:	MLB
DRAWN BY:	MLB
CHECKED BY:	GBC

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERSFIELD, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 BRANDT ROAD STA. 25+00 TO STA. 30+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-22
SHEET	OF
31	39

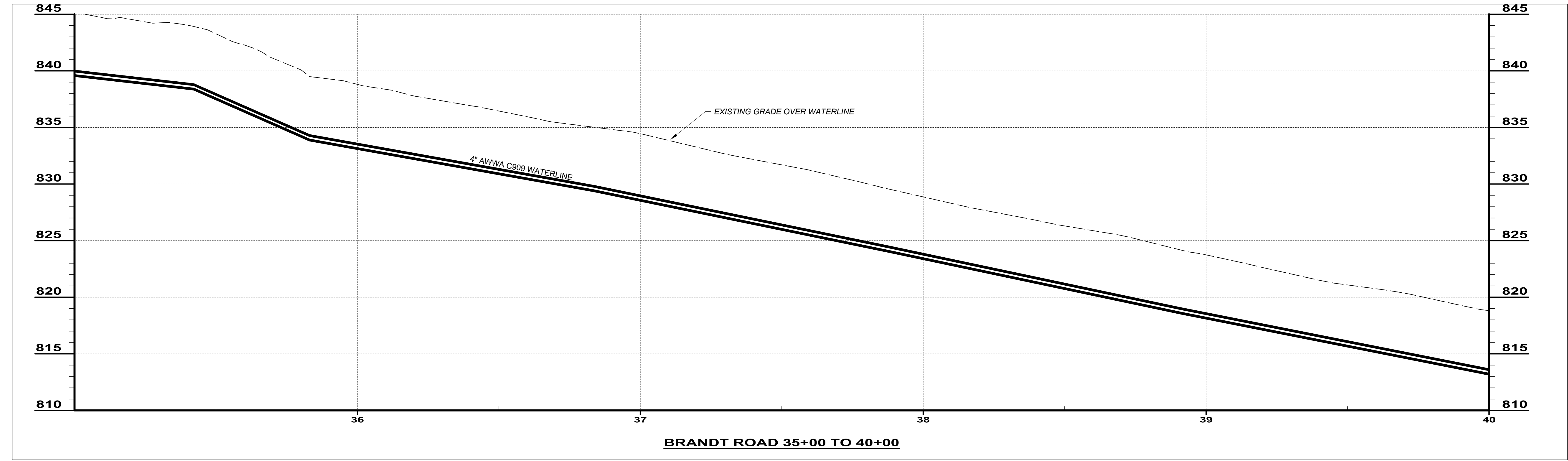
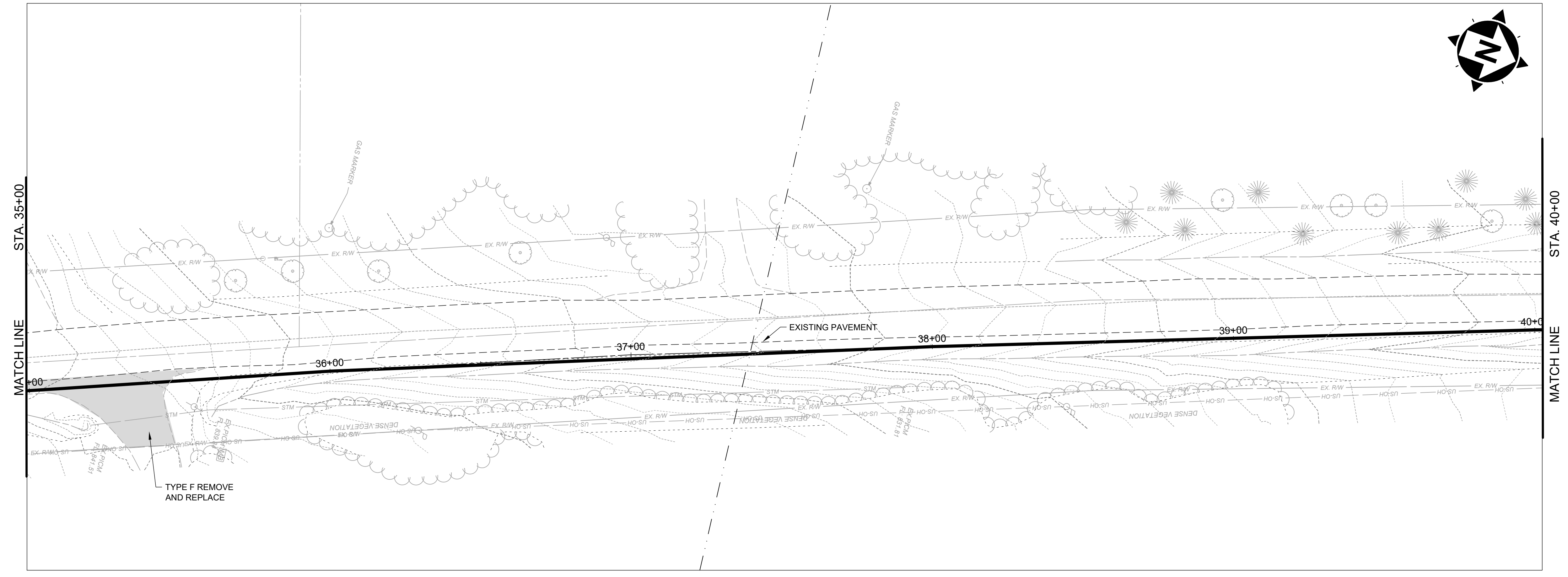


SCALE: HORIZ. 1" = 20'  
VERT. 1" = 5'

NO	REVISION	DATE

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERSFIELD, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 BRANDT ROAD STA. 30+00 TO STA. 35+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-23
SHEET	OF
32	39

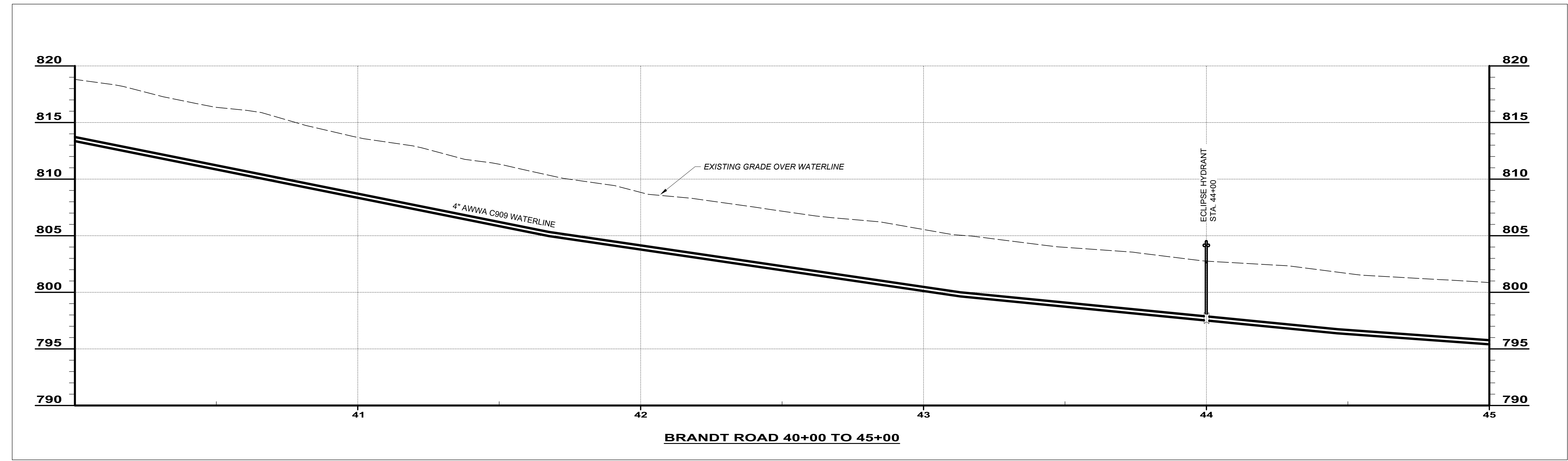
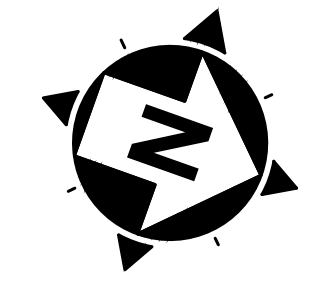
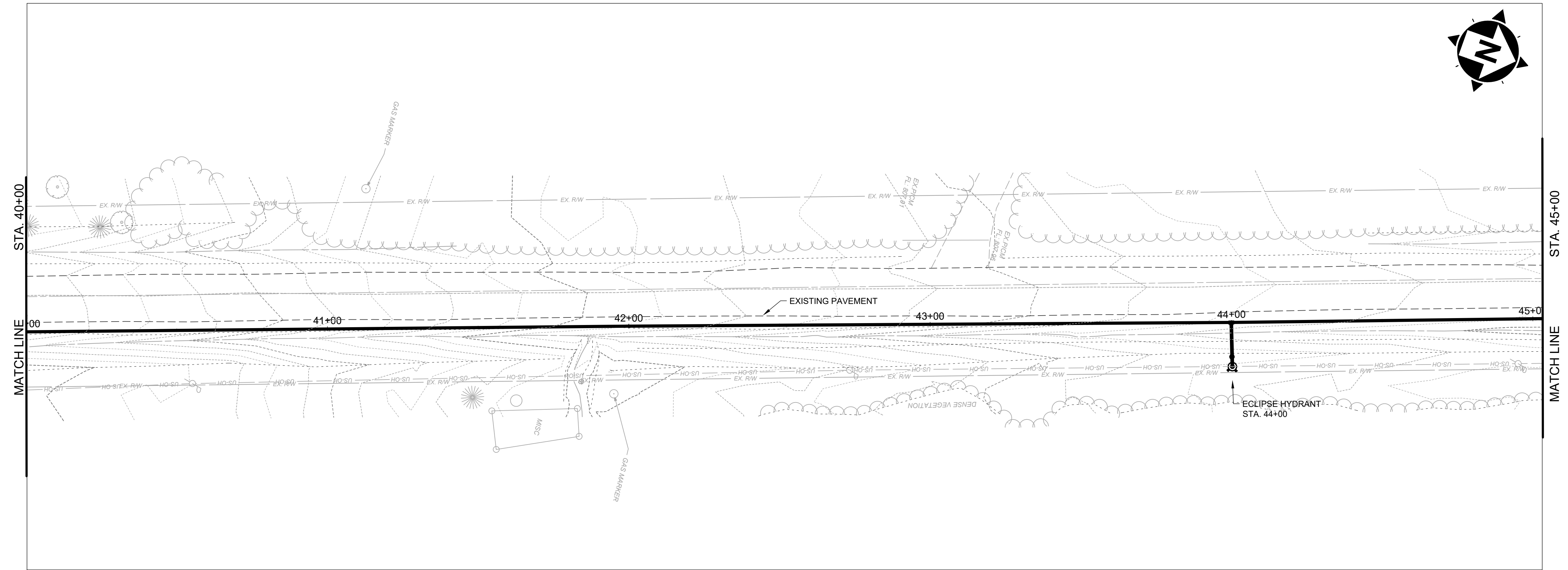


SCALE: HORIZ. 1" = 20'  
VERT. 1" = 5'

NO	REVISION	DATE

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERFILED, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 BRANDT ROAD STA. 35+00 TO STA. 40+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-24
SHEET	33
OF	39

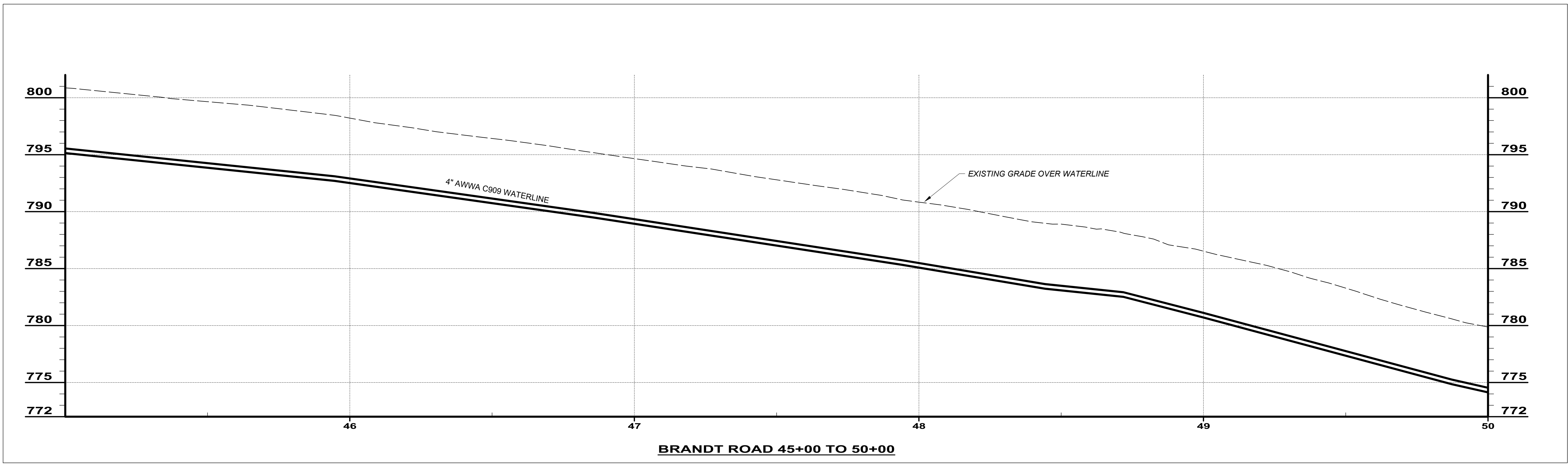
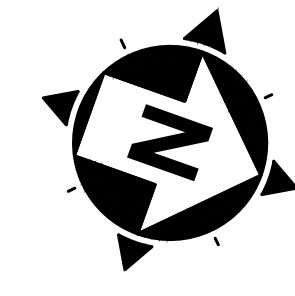
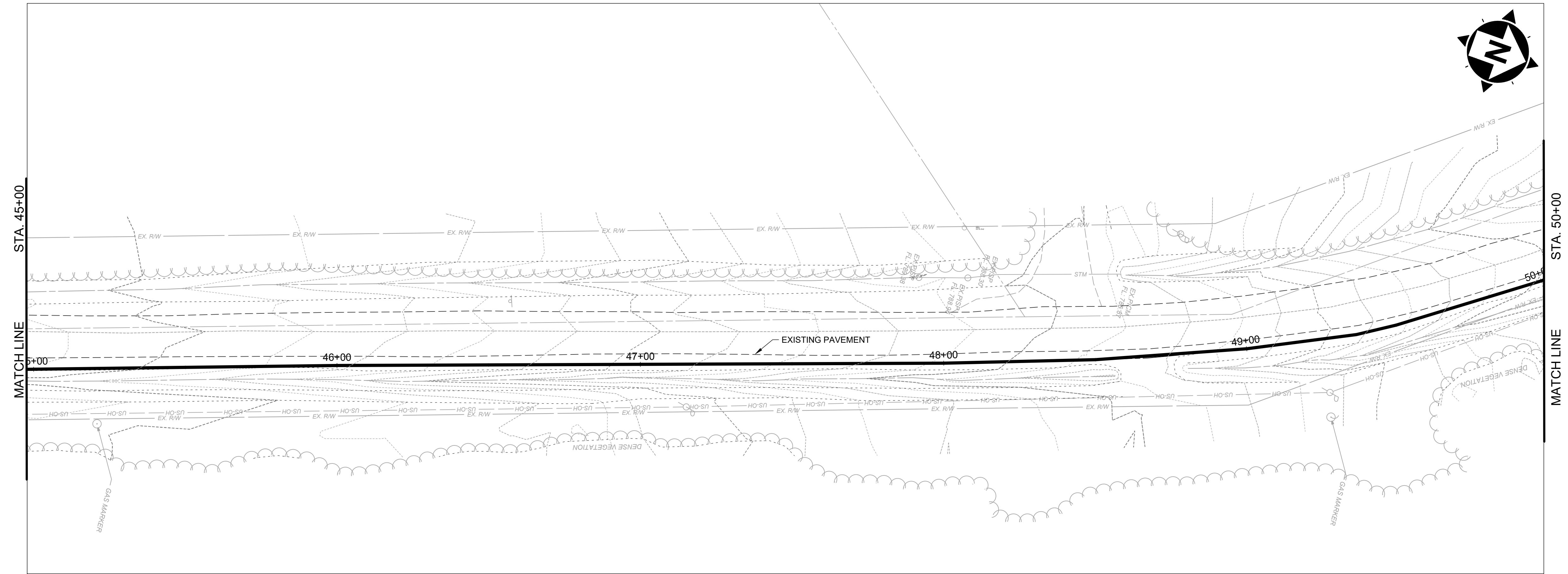


SCALE: HORIZ. 1" = 20'  
VERT. 1" = 5'

NO	REVISION	DATE

ISSUED FOR: REVIEW SET  
 ISSUE DATE: 04/17/2024  
 SCALE: AS NOTED  
 DESIGNED BY: MLB  
 DRAWN BY: MLB  
 CHECKED BY: GBC

PROJECT NO. <b>241222</b>	
DISCIPLINE <b>CIVIL</b>	
SHEET NAME <b>PP-25</b>	
SHEET <b>34</b>	OF <b>39</b>



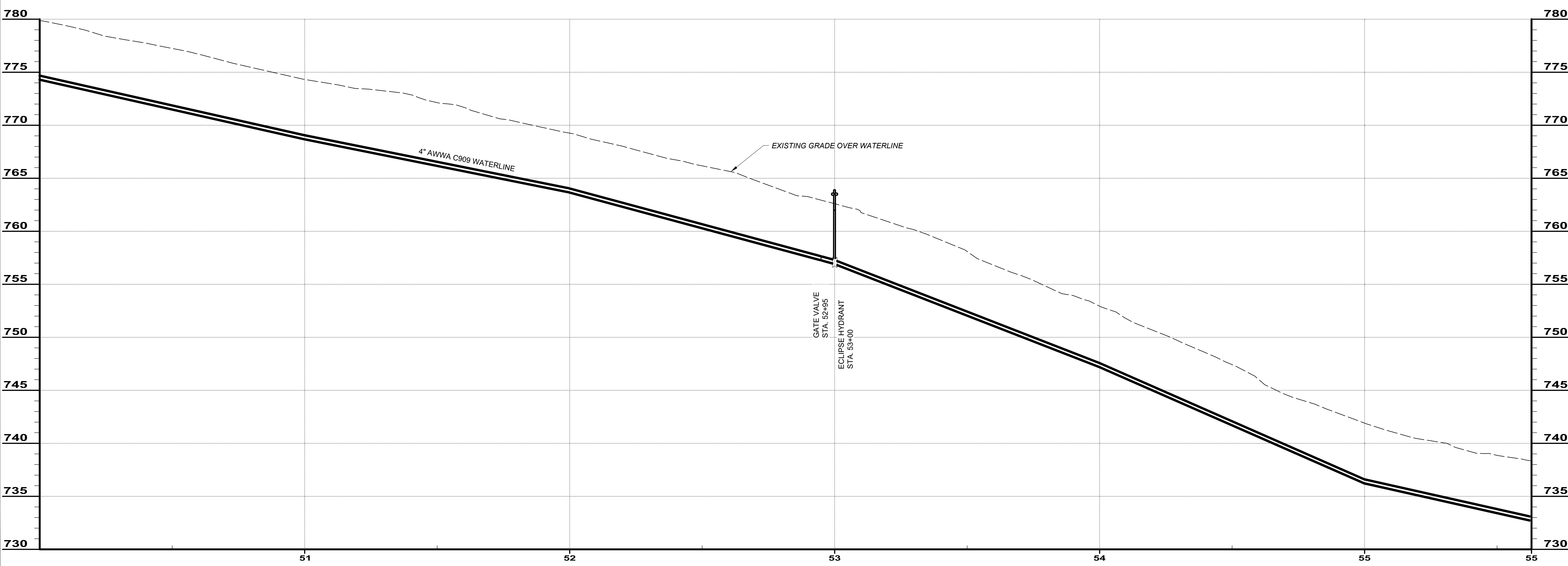
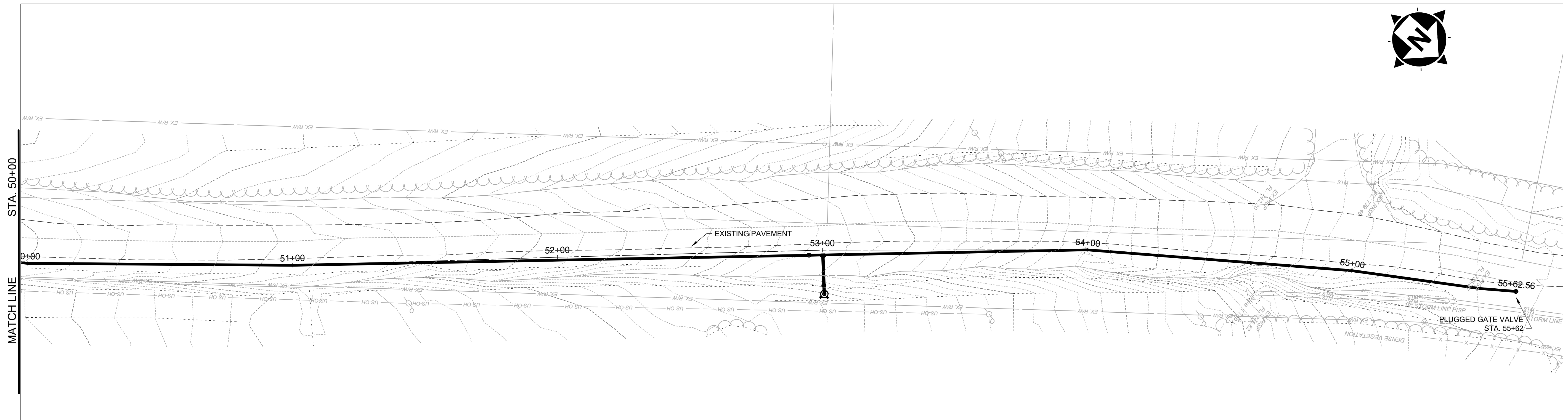
**BRANDT ROAD 45+00 TO 50+00**

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

NO	REVISION	DATE

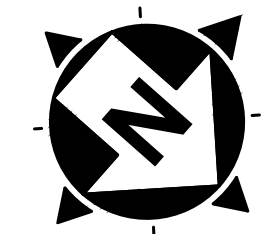
**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERSFIELD, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 BRANDT ROAD STA. 45+00 TO STA. 50+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-26
SHEET	35
OF	39



**BRANDT ROAD 50+00 TO END**

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



NO	REVISION	DATE

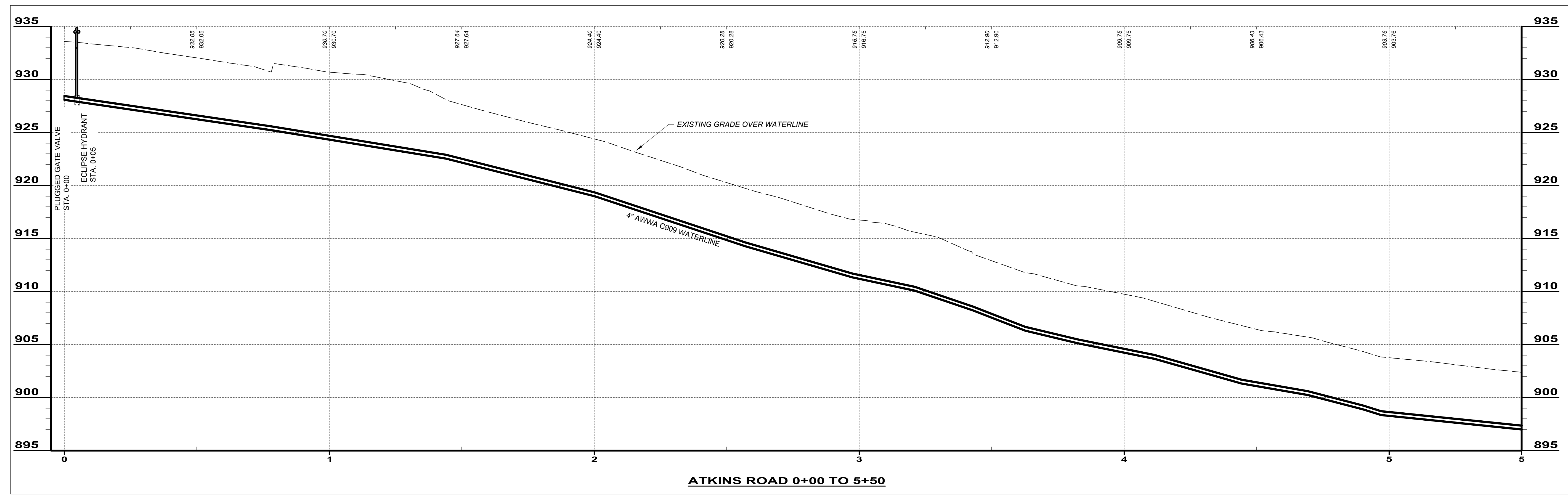
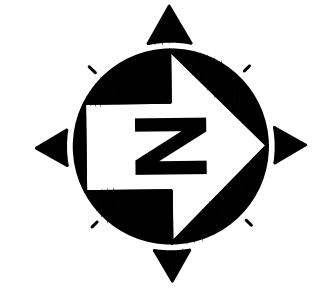
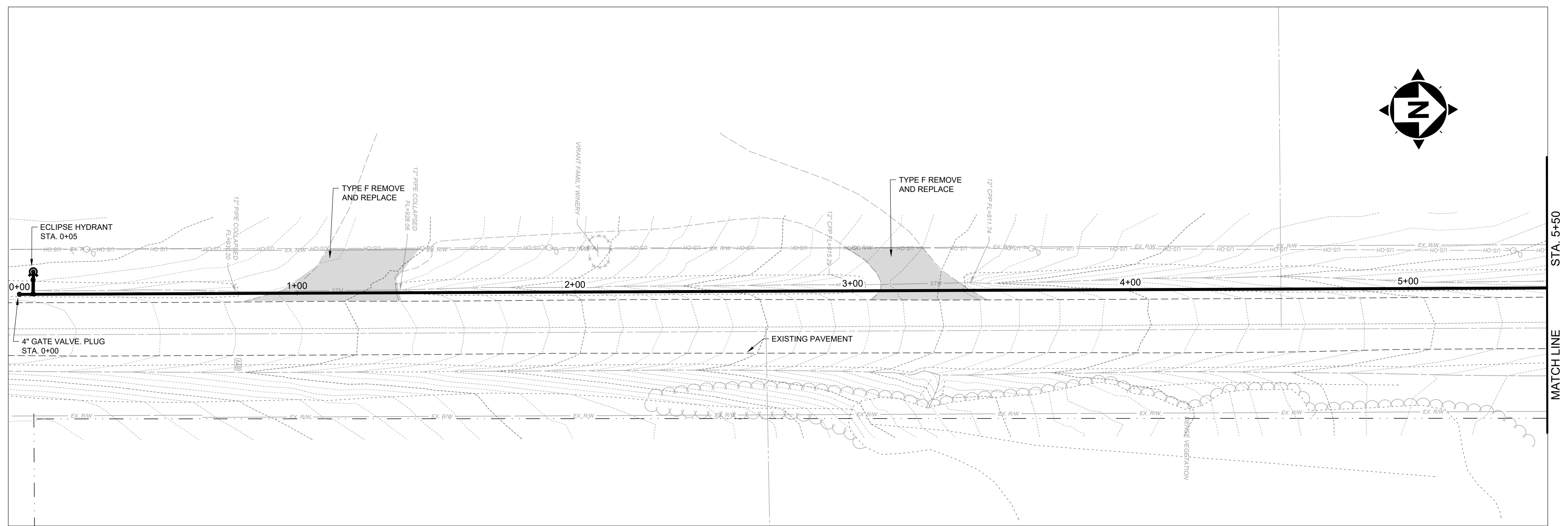
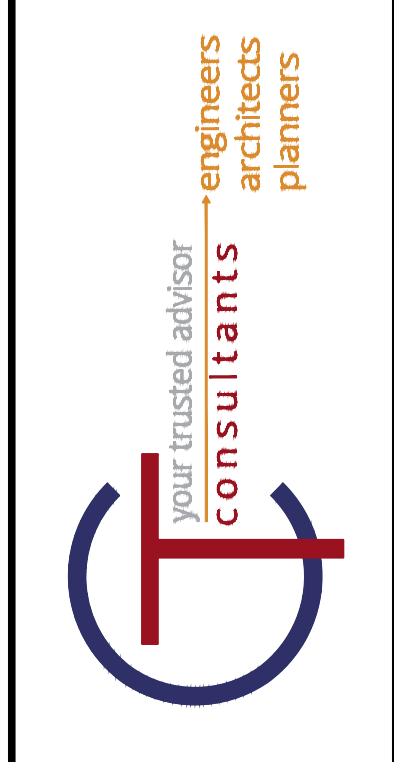
  

ISSUED FOR:	REVIEW SET	NO	
ISSUE DATE:	04/17/2024		
SCALE:	AS NOTED		
DESIGNED BY:	MLB		
DRAWN BY:	MLB		
CHECKED BY:	GBC		

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERSFIELD, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 BRANDT ROAD STA. 50+00 TO END

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-27
SHEET	OF
36	39

H:\2024\241222\DWG\PP-27\_PlanAndProfile BRANDT 50+00 TO END - 4/17/2024 11:13:19 AM - MAGDALENA BORU



ATKINS ROAD 0+00 TO 5+50

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

NO	REVISION	DATE

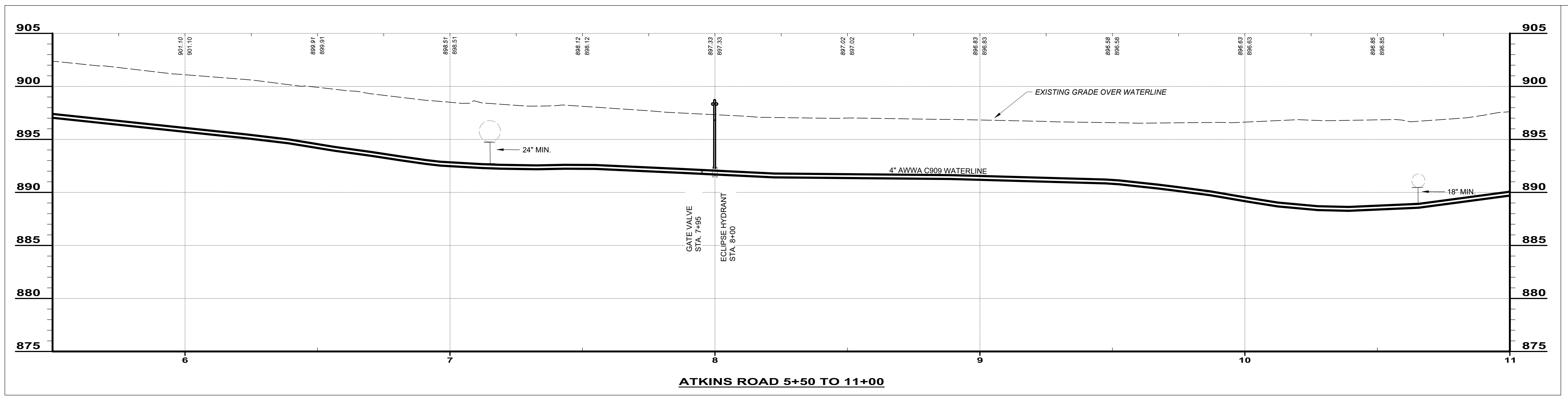
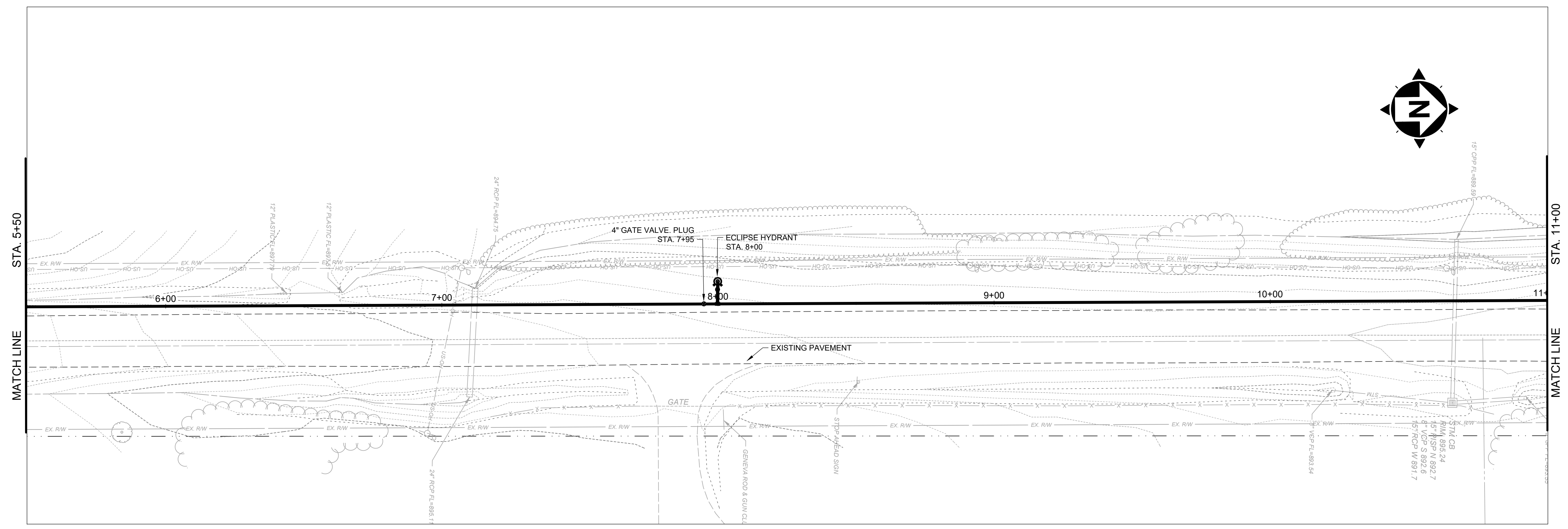
  

ISSUED FOR:	REVIEW SET
ISSUE DATE:	04/17/2024
SCALE:	AS NOTED
DESIGNED BY:	MLB
DRAWN BY:	MLB
CHECKED BY:	GBC

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERSFIELD, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 ATKINS ROAD STA. 0+00 TO STA. 5+50

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-28
SHEET	37
OF	39

H:\2024\241222\DWG\241222\PP\PLAN\PP-28\PP-28.DWG - 9 TO 5-50 - 5/31/2024 9:56:01 AM - MAGDALENA BORU



ATKINS ROAD 5+50 TO 11+00

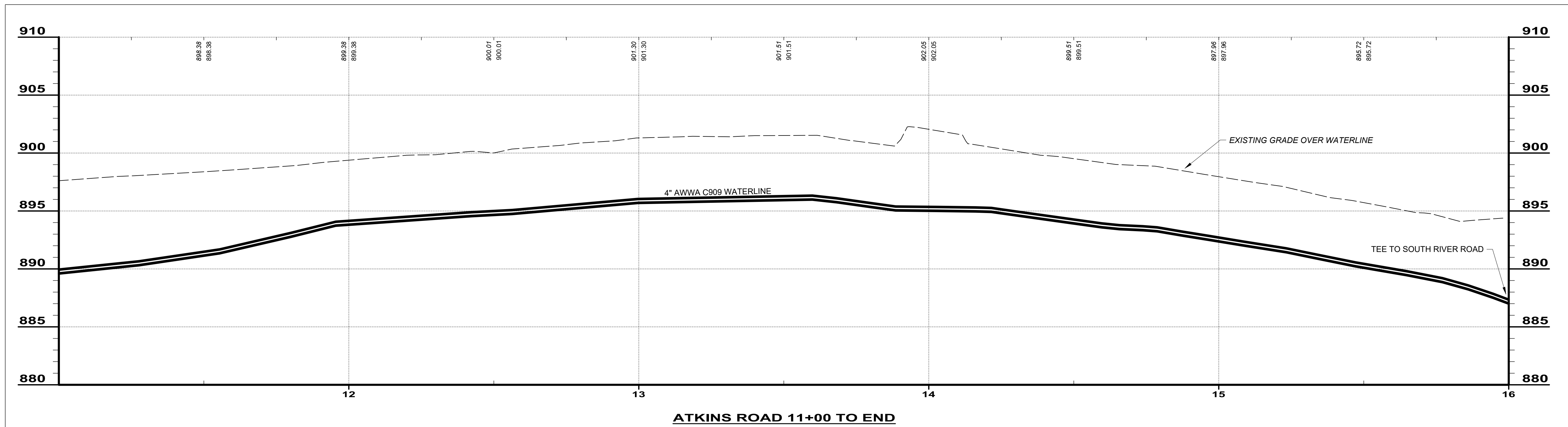
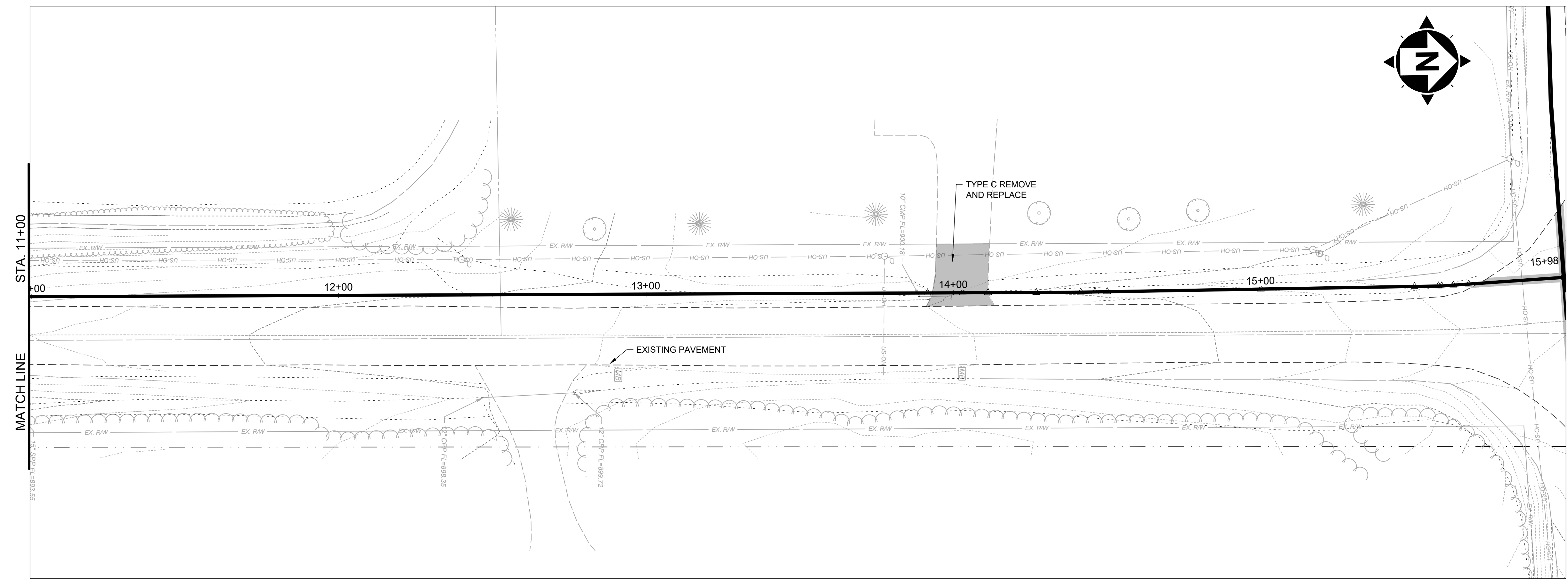
SCALE: HORIZ. 1" = 20'  
VERT. 1" = 5'

NO	REVISION	DATE

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERFILED, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 ATKINS ROAD STA. 5+50 TO STA. 11+00

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-29
SHEET	38
OF	39

H:\2024\241222\DWG\241222\PLAN\PP-29\ATKINS.DWG - 5+50 TO 11 - 20240224 9:56:01 AM - MAGDALENA BORU



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

NO	REVISION	DATE

ISSUED FOR:	REVIEW SET
ISSUE DATE:	04/17/2024
SCALE:	AS NOTED
DESIGNED BY:	MLB
DRAWN BY:	MLB
CHECKED BY:	GBC

**ASHTABULA COUNTY**  
**SOUTH RIVER ROAD WATERLINE EXTENSION**  
 ASHTABULA COUNTY HARPERFILED, OHIO  
 PLAN AND PROFILE - 10 SERIES  
 ATKINS ROAD STA. 11+00 TO END

PROJECT NO.	241222
DISCIPLINE	CIVIL
SHEET NAME	PP-30
SHEET	OF
39	39