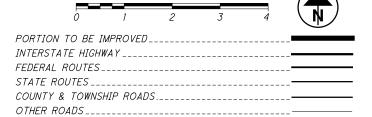
SCALE IN MILES

LATITUDE: N41°13′26" LONGITUDE: W81°55′18″



DESIGN DESIGNATION

OURDENT ART (OCIO)

| CURRENT ADT (2019) | 4400 |
|-----------------------------------|--------|
| DESIGN YEAR ADT (2043) | 4600 |
| DESIGN HOURLY VOLUME (2043) | 460 |
| DIRECTIONAL DISTRIBUTION | 50% |
| TRUCKS (24 HOUR B&C) | 12% |
| DESIGN SPEED | 55 MPH |
| LEGAL SPEED | 55 MPH |
| DESIGN FUNCTIONAL CLASSIFICATION: | |
| 05 MAJOR COLLECTOR (RURAL) | |
| NHS PROJECT | NO |
| | |

DESIGN EXCEPTIONS

NONE

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PLAN PREPARED BY: OSBORN ENGINEERING 1201 EAST MARKET ST., SUITE 200 AKRON, OHIO 44305

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

MED-252-03.95

LIVERPOOL TOWNSHIP MEDINA COUNTY

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PROJECT DESCRIPTION

THIS PROJECT WORK INVOLVES THE REPLACEMENT OF BRIDGE MED-252-03.95 OVER THE WEST BRANCH OF THE ROCKY RIVER. BRIDGE IS LOCATED APPROXIMATELY 450 FEET NORTH OF WEST LAW ROAD (TR 112) IN LIVERPOOL TOWNSHIP OF MEDINA COUNTY. THIS PROJECT INCLUDES PAVEMENT AND GUARDRAIL REPLACEMENT, WHILE KEEPING AN EXISTING SEWER LINE IN OPERATION.

PROJECT EARTH DISTURBED AREA: 0.78 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.25 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: (NOI NOT REQUIRED)

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET 9.

REVISED 10/06/2022

ENGINEERS SEAL:

MARIE KIWALA

SIGNED: Shelly M. Kiwala

DATE: 6/10/22

| | | | STANDAR | SUPPLEMENTAL SPECIFICATIONS | | | | |
|---------|---------|-----------|----------|--------------------------------|---------|--|----------------|--------------------|
| BP-3.1 | 1/21/22 | HL-50.21 | 1/15/21 | AS-1-15 | 7/17/15 | | 800-2019 7/15/ | 22 WATERWAY PERMIT |
| BP-5.1 | 1/21/22 | | | AS-2-15 | 1/18/19 | | 832 10/19/ | /18 6/24/22 |
| | | MT-99.20 | 4/19/19 | GSD-1-19 | 1/15/21 | | 838 1/15/ | <i>'</i> 21 |
| DM-1.1 | 7/17/20 | MT-101.60 | 1/17/20 | PCB-91 | 7/17/20 | | 902 7/19/ | ′19 |
| DM-4.1 | 7/17/20 | MT-105.10 | 1/17/20 | SBR-1-20 | 7/17/20 | | | |
| DM-4.4 | 1/15/16 | | | SICD-2-14 | 1/15/21 | | | |
| | | TC-41.20 | 10/18/13 | | | | | |
| MGS-1.1 | 7/16/21 | TC-42.20 | 10/18/13 | | | | | |
| MGS-2.1 | 1/19/18 | TC-52.20 | 1/15/21 | | | | | |
| MGS-3.1 | 1/19/18 | TC-61.10 | 1/17/20 | | | | | |
| MGS-5.3 | 7/15/16 | TC-61.30 | 7/19/19 | | | | | |
| | | TC-65.10 | 1/17/14 | | | | | |
| MH-1 | 7/16/21 | TC-65.11 | 7/21/17 | | | | | |
| MH-2 | 7/16/21 | | | | | | | |
| MH-3 | 7/16/21 | | | | | | | |
| | | | | | | | | |

APPROVED_ DATE___ _ DISTRICT DEPUTY DIRECTOR

APPROVED_ DATE_ DIRECTOR, DEPARTMENT OF TRANSPORTATION

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ROADWAY

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ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR MASH 2016 APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016), EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

SANITARY SEWER

ITEM 611 - MANHOLE, NO. 3, AS PER PLAN

IN ADDITION TO THE PROVISIONS OF ITEM 611, AND THE MCSE SANITARY SEWER NOTES AND DETAILS (SEE SHEET 22). THE MANHOLE SHALL INCORPORATE A FLAT SLAB TOP AS SHOWN ON ODOT STANDARD CONSTRUCTION DRAWING MH-3. WHERE SPECIFIED IN THE PLANS, THE CONTRACTOR SHALL PROVIDE AN INSIDE DROP MANHOLE PER THE MCSE DETAILS.

SANITARY SEWER NOTES

- 1. ALL MANHOLES SHALL BE SET TO GRADE PER THE MANHOLE SCHEDULE BY THE SEWER CONTRACTOR AT THE TIME OF INSTALLATION. THE FINAL ADJUSTMENT OF THE CASTINGS SHALL BE THE RESPONSIBILITY OF THE PAVING CONTRACTOR AND THE FINAL INSPECTION, APPROVAL AND ACCEPTANCE OF THE SEWER SYSTEM BY THE MEDINA COUNTY SANITARY ENGINEER (MCSE) DEPARTMENT AND MEDINA CITY OR COUNTY ENGINEER WHERE APPLICABLE SHALL BE CONTINGENT UPON THIS FINAL ADJUSTMENT OF THE CASTING.
- 2. ALL MANHOLES SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE WITH COMPRESSION (PREMIUM) TYPE JOINTS. IN ADDITION TO PREMIUM JOINTS, ALL RISER LEDGES MUST HAVE A LAYER OF EITHER MASTIC ROPING, FLEXIBLE TAR MASTIC, OR BUTYL STRIPS.

- 3. ALL SANITARY SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MEDINA COUNTY SANITARY ENGINEERING DEPARTMENT STANDARDS, WITH THE EXCEPTION OF THE USE OF DUCTILE IRON PIPE AND STEEL PIPE AS SPECIFIED IN THESE PLANS.
- 4. SANITARY SEWER HOUSE CONNECTIONS SHALL BE FOUR INCH (4") PVC (SAME AS SANITARY SPECIFICATIONS). SANITARY SEWER CONNECTIONS TO BE LAID AT A MINIMUM SLOPE OF 1.00% AND CARRIED TO A POINT ONE FOOT (1') BEYOND THE UTILITY EASEMENT. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
- 5. R.C.P. AND P.V.C. TRENCH CONDITIONS: A. USE BEDDING PER O.D.O.T. SECTION 611.06. THE MATERIAL FOR THIS BEDDING SHALL MEET O.D.O.T. SPECIFICATIONS FOR #57 LIMESTONE.
- B. TRENCHES UNDER OR WITHIN THREE (3) FEET OF PAVEMENT ARE TO BE BACKFILLED WITH #57 CRUSHED LIMESTONE TO WITHIN ONE FOOT (1') OF THE PAVEMENT BASE TOPPED OFF WITH COMPACTED #304 LIMESTONE PREMIUM BACKFILL, OR MEET THE REQUIREMENTS OF THE AUTHORITY HAVING HIGHWAY MAINTENANCE RESPONSIBILITY.
- C. FOR P.V.C., MODIFY O.D.O.T. SECTION 611.06 TO CARRY THE BEDDING MATERIAL TO A MINIMUM OF SIX INCHES (6") ABOVE THE PIPE.
- D. FOR R.C.P., BEDDING MATERIAL SHALL BE #57 LIMESTONE, FOR R.C.P. MODIFY SECTION 611.06 TO CARRY BEDDING MATERIAL TO A MINIMUM OF HALF THE PIPE OUTSIDE DIAMETER (SEE TRENCH SECTION ON STANDARD DETAIL IN THE PLANS).
- E. IF FILL IS TO BE CONSTRUCTED BELOW THE SANITARY SEWER, COMPACTION TESTS INDICATING 95% COMPACTION MUST BE PERFORMED AND OBSERVED BY THE MCSE AND SUBMITTED FOR APPROVAL BEFORE CONSTRUCTION OF ANY SANITARY SEWER WITHIN SAID FILL AREA CAN BEGIN.
- A. TELEVISED INSPECTION OF ALL SANITARY SEWERS AND PASSAGE OF STANDARD INFILTRATION TEST SHALL BE REQUIRED BEFORE THE ACCEPTANCE OF THE SANITARY SYSTEM BY THE MEDINA COUNTY SANITARY ENGINEERS DEPARTMENT.
- B. DEFLECTION TESTS WILL BE RUN ON ALL P.V.C. PIPE, NOT LESS THAN 30 DAYS AFTER FINAL BACKFILL HAS BEEN PLACED. NO PIPE SHALL EXCEED A DEFLECTION OF 5%. THESE TESTS SHALL CONSIST OF PULLING A "GO/NO-GO" MANDREL THROUGH THE LINE. THE CONTRACTOR SHALL PERFORM THE WORK UNDER COUNTY SUPERVISION.
- C. MAXIMUM ALLOWABLE LEAKAGE INWARD OR OUTWARD (INFILTRATION OR EXFILTRATION) FOR ANY SANITARY SEWER SECTION TESTED. INCLUDING ALL MANHOLES. IS 100 GALLONS PER INCH OF DIAMETER PER MILE OF PIPE PER DAY. MANHOLES MAY BE TESTED SEPARATELY. THE ABOVE ALLOWABLE LEAKAGE RATE IS EQUIVALENT TO 0.08 GALLONS PER INCH OF DIAMETER PER 100 FEET OF PIPE PER HOUR.
- D. LOW PRESSURE AIR TESTING WILL BE REQUIRED ON ALL MAIN LINE SANITARY SEWER, LATERALS, AND MANHOLES, PER MCSE RULES AND REGULATIONS (RESOLUTION 07-874).
- E. ALL COSTS RELATIVE TO THE ABOVE TESTS SHALL BE BORNE BY THE CONTRACTOR AND INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 611 ITEM.

7. PIPE SPECIFICATIONS:

| SANITARY SEWER PIPE | MATERIAL SPECS & SIZE | JOINT SPECS | LATERAL SPECS | MINIMUM PIPE STIFFNESS OR SDR |
|---|--|--------------------------------|---------------|---|
| TRUSSPIPE POLYVINYL CHLORIDE (PVC) | 8" - 15" ASTM D2680 | ASTM D3212 COMPRESSION TYPE | ASTM 3034 | 200 P.S.I. |
| SOLID WALL POLYVINYL CHLORIDE (PVC) | 4" - 15" ASTM D3034 18" - 27" ASTM F679 | ASTM D3212 COMPRESSION TYPE | ASTM 3034 | SDR 35 |
| PVC FORCE MAIN POLYVINYL CHLORIDE (PVC) | 2" - 18" ASTM D2241 | ASTM F477 OR D3139 | N/A | SDR 21 |
| PROFILE WALL POLYVINYL CHLORIDE (PVC) | 18" - 36" ASTM D1784 CELL CLASSIFICATION 12454C, 12454A, 12364A, 12364C | ASTM F477 | ASTM 3034 | 46 P.S.I. |
| REINFORCED CONCRETE (RCP) | 36"-96" ASTM C76 | ASTM C443 | ASTM 3034 | CLASS IV & CLASS V (AS SHOWN ON PLANS) |

- 8. SEWERS SHALL BE DEEP ENOUGH TO RECEIVE WASTEWATER FROM BASEMENTS, AND TO PREVENT FREEZING.
- 9. SEWERS SHALL BE LAID WITH UNIFORM SLOPE BETWEEN
- 10. WATER TIGHT MANHOLE COVERS SHALL BE USED WHERE THE MANHOLE TOPS MAY BE FLOODED BY STREET RUN-OFF OR HIGH WATER. INLET AND OUTLET PIPES SHALL BE JOINED TO THE MANHOLE BY A GASKETED, FLEXIBLE, WATER TIGHT CONNECTION.

ITEM 202 - REMOVAL MISC .: PIPE EXPANSION JOINT

PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO REMOVE THE EXISTING SANITARY SEWER PIPE EXPANSION JOINTS AS SHOWN IN THE PLANS, INCLUDING, BUT NOT LIMITED TO: FITTINGS, GASKETS, CAULK AT BOTH FACES OF THE JOINT. CARE SHALL BE TAKEN SO AS TO NOT DAMAGE THE EXISTING STEEL SANITARY SEWER PIPE TO REMAIN.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH FOR ITEM 202 - REMOVAL MISC .: PIPE EXPANSION JOINT.

ITEM 611 - CONDUIT, TYPE B, AS PER PLAN, 748.01

PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO INSTALL THE DUCTILE IRON (D.I.) SANITARY SEWER PIPE AS SHOWN IN THE PLANS, INCLUDING, BUT NOT LIMITED TO: PIPE, FITTINGS, GASKETS, FLEXIBLE FOAM EXPANSION JOINT FILLER, THRUST BLOCKING, SURFACE PREP, PRIME COAT AND POLYURETHANE CAULK AT BOTH FACES OF THE DIAPHRAGM.

DUCTILE IRON PIPE AND FITTINGS: MEDINA COUNTY SANITARY ENGINEER SHALL PROVIDE THE 12" DUCTILE IRON PIPE TO THE CONTRACTOR. THE 12" DUCTILE IRON PIPE MATERIAL SHALL CONFORM TO CMS 748.01, WITH THE EXCEPTION OF THE FOLLOWING: PIPE SHALL BE ANSI/AWWA C151/A21.51. PIPE SHALL BE SUPPLIED WITH SURFACE PREP AND PRIME COAT PER CMS 514. THE CONTRACTOR WILL BE REQUIRED TO CONTACT MCSE TO SCHEDULE DELIVERY OF THE 12" DUCTILE IRON PIPE MATERIAL TO THEIR STAGING AREA.

ITEM 611 - CONDUIT, TYPE B, AS PER PLAN, 748.01 (CONT.)

CONTRACTOR SHALL PROVIDE 12" DUCTILE IRON FITTINGS PER CMS 748.01, WITH THE EXCEPTION OF THE FOLLOWING: FITTINGS SHALL BE ANSI/AWWA C151/A21.51, MECHANICAL JOINTS, SUNCOATED WITH THE EXCEPTION OF PLAIN END FITTINGS AT THE PROPOSED SANITARY MANHOLE INVERTS. FITTINGS SHALL BE SUPPLIED WITH SURFACE PREP AND PRIME COAT PER CMS >514. SEE SHEET 27 FOR FIELD PAINTING AND FINAL COAT

DUCTILE IRON PIPE AND FITTINGS SHALL BE-

U.S. PIPE >P.O. BOX 10406 BIRMINGHAM, AL 35202 866-347-7473 FAX 205-254-7165 WEBSITE WWW.USPIPE.COM

AMERICAN P.O. BOX 2727 BIRMINGHAM, AL 35207 800-442-2347 561-900-6117 FAX 205-488-7645 WEBSITE WWW.AMERICAN-USA.COM

OR APPROVED EQUAL

FLEXIBLE FOAM EXPANSION JOINT FILLER: CONTRACTOR SHALL PROVIDE FLEXIBLE FOAM EXPANSION JOINT FILLER /(FFEJF) COMPOSED OF A SYNTHETIC POLYMER, VERY SMALL CLOSED-CELL FOAM. JOINT FILLER SHALL BE NON-ABSORBENT AND HAVE A RESILIENCY OF 99%. JOINT FILLER SHALL $^{
angle}$ CONFORM TO THE FOLLOWING STANDARDS AND HAVE THE FOLLOWING REQUIREMENTS:

- 1. ASTM D545 USING A (1/2" (12.7 MM) THICK TEST SPECIMEN).
 - A. COMPRESSION: 13 PSI (9 G/MM) 89.6 KPA.
 - B. EXTRUSION: 0.25".
 - C. RECOVERY: > 95%.
 - D. WATER ABSORPTION, VOLUME %: < 0.5%.
- 2. ASTM D 7174-05.
- 3. ASTM D5249. TYPE II.
- 4. THICKNESS: 1"

REVISED 10/06/2022

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SANITARY SEWER (CONT.)

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MCSE GENERAL NOTES (CONTINUED)

- 10. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL BEFORE ANY WORK CAN COMMENCE.
- 11. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN. INSTALLATION, AND FINAL CLEARANCE OF ANY REQUIRED NEEDLING, UNDERPINNING, SHORING OR BRACING OF EXISTING STRUCTURES.
- 13. NOTIFY THE ODOT PROJECT ENGINEER OF ANY UNUSUAL SOIL CONDITIONS, SUCH AS SPRINGS OR SEEPAGE OF WATER ENCOUNTERED, OR WHERE A DIFFERENT BEARING MATERIAL IS EVIDENT AND THERE IS A QUESTION OF THE BEARING CAPACITY.
- 14. MINOR ALIGNMENT CHANGES MAY BE REQUIRED DURING CONSTRUCTION DUE TO POSSIBLE UTILITY CONFLICTS, AS DIRECTED AND/OR APPROVED BY THE ODOT PROJECT ENGINEER.
- 15. PAVING AND/OR RESURFACING WORK SHALL NOT BE SCHEDULED FOR COMPLETION UNTIL PRIOR APPROVAL OF THE CONTRACTOR'S PROGRESS SCHEDULE HAS BEEN GRANTED OR DIRECTED BY THE ODOT PROJECT ENGINEER.
- 16. WORK LIMITS SHALL BE LIMITED TO WITHIN THE RIGHT-OF-WAY. ALL OF THE CONTRACTOR'S OPERATIONS MUST BE CONFINED WITHIN THE EXISTING STREET'S RIGHT-OF-WAY LIMITS OR EXISTING EASEMENTS ACQUIRED BY THE OWNER OR ODOT. ANY ADDITIONAL CONSTRUCTION EASEMENTS NEEDED FOR COMPLETION OF HIS WORK MUST BE SECURED FROM THE PROPERTY OWNERS BY THE CONTRACTOR AT HIS EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER OR ODOT.
- 17. RESTORATION OF THE WORK AREA: BEFORE RELEASE OF THE FINAL PAYMENT A COMPLETE REVIEW OF THE ENTIRE WORK AREA WILL BE MADE TO VERIFY THE AREA IS RESTORED TO PRE-CONSTRUCTION CONDITION OR BETTER.
- 18. THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY, AS REQUIRED BY SECTION 153.64 OHIO REVISED CODE. AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS, IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE OHIO UTILITY PROTECTION SERVICE (OUPS), THE OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE (OGPUPS), AND THE OWNERS OF EACH UNDERGROUND UTILITY FACILITY SHOWN ON THE PLANS SHALL BE CONTACTED BY THE CONTRACTOR. THE OWNER OF THE UNDERGROUND UTILITY FACILITY SHALL, WITHIN FORTY-EIGHT (48) HOURS, EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS, AFTER NOTICE IS RECEIVED, STAKE, MARK OR OTHERWISE DESIGNATE THE LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY TWO (2) DAYS AHEAD OF THE PLANNED CONSTRUCTION.
- 19. SANITARY SEWERS ARE TO BE SEPARATED FROM EXISTING AND PROPOSED POTABLE WATER LINES BY A MINIMUM HORIZONTAL DISTANCE OF TEN FEET (10'), OUTSIDE OF PIPE TO OUTSIDE OF PIPE. IN INSTANCES WHERE WATER AND SEWER LINE MUST CROSS, THE WATER LINE IS TO MAINTAIN A VERTICAL DISTANCE OF EIGHTEEN INCHES (18") ABOVE THE SANITARY SEWER, OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
- 20. ALL CONSTRUCTION EQUIPMENT SHALL BE EQUIPPED WITH MUFFLERS IN ACCORDANCE WITH FEDERAL SAFETY STANDARDS. 21. ALL HEAVY EQUIPMENT ON ROAD SURFACES SHALL INCLUDE METAL OR RUBBER PAVEMENT TRACKS.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

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.

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 ODOT PROJECT 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.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ODOT PROJECT 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.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ODOT PROJECT ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

MANHOLES, CATCH BASINS AND INLETS REMOVED OR ABANDONED

ALL CASTINGS SHALL BE CAREFULLY REMOVED AND STORED WITHIN THE RIGHT OF WAY FOR SALVAGE BY MCSE FORCES. PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEM.

ITEM 611 - DRAINAGE STRUCTURE, MISC.: SANITARY SEWER BYPASS PUMPING

THIS ITEM SHALL CONSIST OF PREPARING PLANS, PROVIDING, MAINTAINING AND SUBSEQUENTLY REMOVING A FULLY ENGINEERED TEMPORARY BYPASS PUMPING SYSTEM BETWEEN EXISTING MANHOLES AT THE INTERSECTION OF LAW ROAD (STA. 204+98.17) AND APPROXIMATELY 212' NORTHEAST OF THE EXISTING BRIDGE (STA. 212+36.71) FOR THE MEDINA COUNTY SANITARY ENGINEER'S (MCSE) EXISTING SANITARY LINE WHICH WILL REMAIN IN SERVICE DURING CONSTRUCTION OF THE PROJECT. SEE BRIDGE REMOVAL DETAILS ON SHEET 30 OF 51 FOR ADDITIONAL INFORMATION.

THE BYPASS PLAN SHALL ADDRESS THE MAINTENANCE OF ACCESS TO THE PRIVATE DRIVEWAY NEAR LAW ROAD (1881 COLUMBIA ROAD) AT ALL TIMES. THE PROPOSED BYPASS SYSTEM SHALL NOT BLOCK OR IMPEDE ACCESS TO THE PROPERTY.

THE MCSE DOES NOT HAVE FLOW RATES FOR THIS SECTION OF SANITARY SEWER. THE CONTRACTOR SHALL ASSUME THAT THE SEWER IS FLOWING AT FULL CAPACITY AND PLAN BYPASS PUMPING AND MCSE COORDINATION ACCORDINGLY.

THREE (3) COPIES OF THE CONTRACTOR'S PLAN FOR THE PROPOSED TEMPORARY BYPASS AND TWO (2) COPIES OF THE DESIGN COMPUTATIONS SHALL BE SUBMITTED TO THE MCSE AND ODOT PROJECT ENGINEER AT LEAST 30 DAYS PRIOR TO ITS SCHEDULED CONSTRUCTION. SUCH CONSTRUCTION SHALL NOT BEGIN UNTIL AFTER APPROVAL HAS BEEN RECEIVED. THE PLANS SHALL BE PREPARED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OHIO.

INSTALLATION, OPERATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF THE TEMPORARY BYPASS SYSTEM AND ALL ANCILLARY REQUIREMENTS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR PAYMENT WITH ITEM 611 - DRAINAGE STRUCTURE, MISC.: SANITARY SEWER BYPASS PUMPING.

ENVIRONMENTAL COMMITMENTS

1. THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. THE CONTRACTOR SHALL NOT REMOVE TREES UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THE CONTRACTOR SHALL DEMARCATE CLEARING LIMITS IN THE FIELD TO AVOID ANY UNAUTHORIZED TREE CLEARING. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

- 2. THE CONTRACTOR SHALL NOT WORK BELOW THE ORDINARY HIGH-WATER MARK (OHWM) OF THE WEST BRANCH ROCKY RIVER, OR INSTALL, MODIFY, OR REMOVE ANY EXISTING INSTREAM FILLS DURING THE ODNR INSTREAM WORK RESTRICTION PERIOD OF APRIL 15 TO JUNE 30 UNLESS A WAIVER IS APPROVED BY ODNR AND VERIFIED BY THE USACE.
- 3. ODOT SHALL SELF-PERMIT BY OBTAINING THE FLOODPLAIN PERMIT OR DOCUMENTATION OF EXEMPTION PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOT WORK BELOW THE ORDINARY HIGH-WATER MARK OF WEST BRANCH ROCKY RIVER, OR INSTALL, MODIFY, OR REMOVE ANY EXISTING INSTREAM FILLS UNTIL ODOT HAS RECEIVE THE FLOODPLAIN PERMIT OR DOCUMENT OF EXEMPTION.
- 4. ODOT SHALL OBTAIN AND ADHERE TO ALL APPROPRIATE WATERWAY PERMITS PRIOR TO ANY WORK BELOW THE ORDINARY HIGH-WATER MARK OF ANY WATERWAY AND ALL SPECIAL PROVISIONS FOR WATERWAY PERMITS WILL BE INCLUDED IN THE PLANS. THE CONTRACTOR SHALL NOT PERFORM ANY WORK WITHIN THE BOUNDARIES OF ANY

WETLAND OR BELOW THE ORDINARY HIGH-WATER MARK (OHWM) OF ANY STREAM UNTIL ODOT

NECESSARY WATERWAY PERMIT(S). THIS INCLUDES THE PLACEMENT OF ANY TEMPORARY OR PERMANENT FILLS BELOW THE OWHM.

5. AN ASBESTOS SURVEY FOR SFN ID#:5206871 SCHEDULED FOR DEMOLITION WORK WAS CONDUCTED BY A LICENSED ASBESTOS HAZARD EVALUATION SPECIALIST. A COPY OF THE ASBESTOS SURVEY REPORT FOR THE STRUCTURE IS INCLUDED IN THE PLAN PACKAGE FOR THIS PROJECT. THE ASBESTOS SURVEY REPORT DID NOT IDENTIFY THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS, IF ASBESTOS CONTAINING MATERIAL IS DISCOVERED DURING CONSTRUCTION, THE REMOVAL AND DISPOSAL OF ANY ASBESTOS CONTAINING MATERIAL MUST COMPLY WITH THE OHIO ADMINISTRATIVE CODE (OAC) REGULATIONS AND THE NATIONAL PEMISSIONS STANDARD FOR HAZARDOUS AIR POLLUTANTS (NESHAP) STANDARD FOR ASBESTOS.

ENVIRONMENTAL COMMITMENTS (CONT.)

ELECTRONIC SUBMISSION:

THE CONTRACTOR SHALL SUBMIT ELECTRONICALLY TO OEPA A COMPLETED NOTIFICATION OF DEMOLITION & RENOVATION FORM (NDRF) AND APPLICABLE FEES ALONG WITH THE ASBESTOS SURVEY REPORT. THE COMPLETED NDRF MUST BE SUBMITTED TO OEPA AT LEAST 10 DAYS PRIOR TO ANY DEMOLITION AND RENOVATION ACTIVITY. THE CONTRACTOR IS RESPONSIBLE FOR RETAINING AN ELECTRONIC COPY OF THE NDRF (IN PDF FORM) FOR SUBMISSION TO THE DISTRICT ENVIRONMENTAL STAFF AND ONE HARD COPY TO THE PROJECT ENGINEER.

(GO TO THE OEPA EBUSINESS CENTER AND SUBMIT THE NDRF AND PAYMENT ALONG WITH THE ASBESTOS SURVEY REPORT)

HARD COPY SUBMISSION: THE CONTRACTOR MAY ELECT TO SUBMIT A HARD COPY OF THE COMPLETED NDRF AND PAYMENT ALONG WITH THE ASBESTOS SURVEY REPORT TO THE FOLLOWING:

ASBESTOS PROGRAM OHIO EPA. DAPC OR P.O. BOX 1049 COLUMBUS, OH 43216-1049

ASBESTOS PROGRAM OHIO EPA. DAPC 50 W. TOWN ST., SUITE 700 COLUMBUS, OH 43215

IF THE CONTRACTOR ELECTS TO SUBMIT A HARD COPY TO THE OEPA, THEY ARE RESPONSIBLE FOR RETAINING A HARD COPY OF THE NDRF FOR SUBMISSION TO THE DISTRICT ENVIRONMENTAL STAFF AND ONE COPY TO THE PROJECT ENGINEER. THE COMPLETED NDRF MUST BE SUBMITTED TO THE OEPA AT LEAST 10 DAYS PRIOR TO DEMOLITION &/OR RENOVATION ACTIVITY.

THE CONTRACTOR SHALL ENSURE THAT THE ABATEMENT, TRANSPORT, AND DISPOSAL OF ASBESTOS CONTAINING MATERIAL IS CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. THE CONTRACTOR SHALL ENSURE THAT ALL DOCUMENTATION RELATED TO THE ABATEMENT, TRANSPORT, AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS. THE ASBESTOS CONTAINING MATERIALS MUST BE DISPOSED OF IN A LANDFILL LICENSED BY THE LOCAL HEALTH DEPARTMENT AND PERMITTED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY, DIVISION OF AIR POLLUTION CONTROL, TO ACCEPT ASBESTOS CONTAINING MATERIALS. PAYMENT FOR NECESSARY WORK INVOLVING ASBESTOS CONTAINING MATERIAL WILL BE PERFORMED BY CHANGE ORDER.

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THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE DISTRICT OFFICE AND THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE DISTRICT TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW. NOTIFICATIONS SHALL BE SENT TO THE EMAIL ADDRESS DO3.Defour.Notification@dot.ohio.gov AND THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE NOTIFICATION SIGNS OR MESSAGE BOARDS. UPON RECEIPT OF NOTIFICATION BY THE CONTRACTOR, THE DISTRICT OFFICE WILL ARRANGE NOTIFICATION OF THE FOLLOWING ORGANIZATIONS, IN WRITING, IN ACCORDANCE WITH THE BELOW TABLE:

MEDINA COUNTY ENGINEER'S OFFICE

VALLEY CITY FIRE DEPARTMENT

BUCKEYE LOCAL SCHOOLS

MEDINA COUNTY SHERIFF'S OFFICE

ODOT DISTRICT THREE OFFICE OF ROADWAY SERVICES

ODOT DISTRICT THREE PUBLIC INFORMATION OFFICE

SPECIAL HAULING PERMITS SECTION

(Hauling.Permits@dot.ohio.gov)

LIVERPOOL TOWNSHIP

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVEABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE

| ITEM | DURATION OF CLOSURE | NOTICE LEAD TIME REQUIRED* |
|---|--------------------------|--|
| | TWO WEEKS OR GREATER | 21 CALENDAR DAYS |
| RAMP AND/OR ROAD CLOSURES | 12 HOURS TO TWO WEEKS | 14 CALENDAR DAYS |
| | 12 HOURS OR LESS | 4 BUSINESS DAYS |
| LANE CLOSURES | TWO WEEKS OR GREATER | 21 CALENDAR DAYS |
| AND RESTRICTIONS | 12 HOURS TO TWO WEEKS | 14 CALENDAR DAYS |
| START OF CONSTRUCTION AND TRAFFIC PATTERN CHANGES | N/A | 14 CALENDAR DAYS PRIOR TO IMPLEMENTATION |

* = PRIOR TO CLOSURE DATE, UNLESS NOTED OTHERWISE

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE. NOTICE OF CLOSURE SIGNS (W20-Hi3) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD CLOSURE ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC 14 CALENDAR DAYS PRIOR TO THE CLOSURE. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE.

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

MAINTENANCE OF LOCAL DETOUR ROUTE

A LOCAL DETOUR ROUTE, OTHER THAN THE OFFICIAL SIGNED ODOT DETOUR ROUTE, WILL BE SELECTED BY AGREEMENT BETWEEN ODOT AND LOCAL GOVERNMENT AGENCIES PRIOR TO THE HIGHWAY CLOSURE.

DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST, AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DIRECTED BY THE ENGINEER. THE DESIGNATED LOCAL DETOUR ROUTE IS TO BE REVIEWED AND REPAIRED PRIOR TO THE ASPHALT CONTRACTOR OR SUBCONTRACTOR LEAVING THE PROJECT.

PAYMENT FOR THE WORK NECESSARY TO REPAIR THESE LOCAL ROADS WILL BE PERFORMED BY CHANGE ORDER.

ACCESS TO ADJACENT PROPERTY

ACCESS TO ADJACENT PROPERTY WITHIN AND ADJACENT TO THE WORK LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR AT ALL TIMES, AS PER 614.02(a).

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| | | | | SHEET | Γ NUM. | | | | PA | RT. | ITEM | ITEM | GRAND | UNIT | DESCRIPTION | SEE SHEET | |
|-----------------|-----|----------|---------|-------|----------|----|-------------------|-----------|----------------------------|--------------------|---------------------------------------|---|-------|-------|--|--------------|-----------|
| OFFICE CALCS | 4 | 7 | 13 | 14 | 15 | 24 | | | 01/STR/BR | 02/STR/BR | | EXT | TOTAL | UNII | DESCRIPTION | NO. | CALCI |
| | 1.6 | | | | | | | | 1.6 | | 001 | 11000 | 1.0 | | ROADWAY | 4 | 1 |
| | LS | | | | | | | | LS | | 201 | 11000 | LS | | CLEARING AND GRUBBING | 4 | ┨ |
| | | | | | 513 | | | | 513 | | 202 | 23000 | 513 | SY | PAVEMENT REMOVED | | |
| | | | | | 67 | | | | 67 | | 202 | 23500 | 67 | SY | WEARING COURSE REMOVED | | 4 |
| | | | 142 | | 1 61 | | | | 01 | 142 | 202 | 35100 | 142 | FT | PIPE REMOVED, 24" AND UNDER | | ┨ |
| | | | | 400 | | | | | 400 | | 202 | 38000 | 400 | FT | GUARDRAIL REMOVED | | コ |
| | | | | 4 | | | 1 | | 4 | | 202 | 42010 | 4 | EACH | ANCHOR ASSEMBLY REMOVED, TYPE E | 1 | 4 |
| | | | | 4 | | | | | 4 | | 202 | 47000 | 4 | EACH | BRIDGE TERMINAL ASSEMBLY REMOVED | | ┨ |
| | | | 2 | | | | | | | 2 | 202 | 58000 | 2 | EACH | MANHOLE REMOVED | | 1 |
| | | | 2 | | <u> </u> | | | | | 2 | 202 | 98100 | 2 | EACH | REMOVAL MISC.: PIPE EXPANSION JOINT | 5 | 4 |
| | | | | 415 | | | | | 415 | | 203 | 10000 | 415 | CY | EXCAVATION | | ┨ |
| | | | | 341 | | | | | 341 | | 203 | 20000 | 341 | CY | EMBANKMENT | | 1 |
| 603 | | | | | | | | | 603 | | 204 | 10000 | 603 | SY | SUBGRADE COMPACTION | 4 | 4 |
| 201 | | | | | | | | | 201 | | 204 | 13000 | 201 | CY | EXCAVATION OF SUBGRADE | | ┪ |
| 201 | | | | | | | | | 201 | | 204 | 30010 | 201 | CY | GRANULAR MATERIAL, TYPE B | | |
| 603 | 1 | | | | - | | | | 2 | | 204 | 45000 | 603 | HOUR | PROOF ROLLING GEOTEXTILE FABRIC | 4 | 4 |
| 603 | | | | | | | 1 | | 603 | | 204 | 50000 | 603 | SY | GEOTEXTILE FABRIC | 1 | ┨ |
| | | | | 3 | | | | | 3 | | 209 | 15000 | 3 | STA | RESHAPING UNDER GUARDRAIL | | 1 |
| | | | | 512.5 | | | 1 | | 512.5 | | 606 | 15100 | 512.5 | FT | GUARDRAIL, TYPE MGS WITH LONG POSTS | 1 | 4 |
| | | | | 4 | 1 | | + | | 4 | | 606 | 26150 | 4 | EACH | ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016) | 5 | ┪ |
| | | | | 4 | | | | | 4 | | 606 | 35002 | 4 | EACH | MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 | | 1 |
| | | | | | | | | | | | | | | | EROSION CONTROL | | 4 |
| | | | | 7 | | | | | 7 | | 601 | 21050 | 7 | SY | TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT | | \dashv |
| | | | | 40 | | | | | 40 | | 601 | 21060 | 40 | SY | TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT | | 1 |
| | | | | 160 | | | | | 160 | | 601 | 32200 | 160 | CY | ROCK CHANNEL PROTECTION, TYPE C WITH FILTER | - | 4 |
| | 45 | | | | | | 1 | | 45 | | 659 | 00300 | 45 | CY | TOPSOIL | <u> </u> | ┨ |
| | | | | 407 | | | | | 407 | | 659 | 00530 | 407 | SY | SEEDING AND MULCHING, CLASS 3B | 4 | 1 |
| | | | | | | | | | 5,000 | | 832 | 30000 | 5,000 | EACH | EROSION CONTROL | | 4 |
| | | | | | | | | | | | | | | | | | ┨ |
| | | | | 65 | | | | | 65 | | 838 | 20701 | 65 | CY | GABIONS, AS PER PLAN | 28 | 1 |
| | | | | | | | \Longrightarrow | \bowtie | $\Rightarrow \Rightarrow $ | $\rightarrow \sim$ | $\rightarrow \rightarrow \rightarrow$ | $\qquad \qquad $ | | | GABIONS, AS PER PLAN | | 4 |
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| | | | | | | | | | | | | | | | | | 1 |
| | | | | 4 | | | | | 4 | | 611 | 99710 | 4 | EACH | DRAINAGE PRECAST REINFORCED CONCRETE OUTLET | 1 / / | + |
| | | | | 1 | | | 1 | | 7 | | OII | 33110 | 1 | LACII | THEORY HEIM ONCED CONCRETE COTEET | 1 | ┨ |
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GUARDRAIL, EARTHWORK AND EROSION CONTROL SUBSUMMARIES

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| | | | 202 | 202 | 202 | 209 | 606 | 606 | 606 | 62 | 20 | 626 | 626 | |
|----------------|------------------------|--------|-------------------|------------------------------------|-------------------------------------|---------------------------|--|--|---|--|---|---|---|--|
| PLAN SHEET NO. | NOITATS RELEGIES | SIDE | GUARDRAIL REMOVED | ANCHOR ASSEMBLY REMOVED, TYPE E | BRIDGE TERMINAL ASSEMBLY REMOVED | RESHAPING UNDER GUARDRAIL | GUARDRAIL, TYPE MGS WITH LONG POSTS | ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016) | MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 | DELINEATOR, POST GROUND MOUNTED, TYPE C (WHITE) | DELINEATOR, POST GROUND MOUNTED, TYPE D (YELLOW) | BARRIER REFLECTOR, TYPE 1 (BI-DIRECTIONAL) | BARRIER REFLECTOR, TYPE 2 (BI-DIRECTIONAL) | |
| | FROM TO | | FT | EACH | EACH | STA | FT | EACH | EACH | EA | СН | EACH | EACH | |
| | S.R. 252 | | | | | | | | | | | | | |
| 23 | GR-1 206+43.6 208+33.0 | LT | 75.0 | 1 | 1 | | 112.5 | 1 | 1 | | 1 | | | |
| 23 | GR-2 206+53.0 208+17.4 | RT | 112.5 | 1 | 1 | | 87.5 | 1 | 1 | 1 | | | | |
| 23 | GR-3 210+41.5 211+30.9 | RT | 37.5 | 1 | 1 | | 12.5 | 1 | 1 | | 1 | | | |
| 23 | GR-4 210+57.1 214+37.9 | LT | 175.0 | 1 | 1 | 3.13 | 300.0 | 1 | 1 | 1 | | | | |
| 23 | SB BARRIER REFLECTORS | LT | | | | | | | | | | 2 | 8 | |
| 23 | NB BARRIER REFLECTORS | RT | | | | | | | | | | 2 | 5 | |
| | SUBTOTALS | | 400.0 | 4 | 4 | 3.13 | 512.5 | 4 | 4 | 2 | 2 | 4 | 13 | |
| TOTALS | CARRIED TO GENERAL SU | IMMARY | 400 | 4 | 4 | 3 | 512.5 | 4 | 4 | 4 | 1 | 4 | 13 | |

| | | - | 203 | 203 | 659 Æ |
|----------------|---------------|---------------|------------|------------|-----------------------------|
| PLAN SHEET NO. | STA | FION | EXCAVATION | EMBANKMENT | SEEDING AND MULCHING, CLASS |
| | FROM | ТО | CY | CY | SY |
| | S.R. | 252 | | | |
| 17 | 207+50.00 | 208+00.00 | 20 | 2 | 28 |
| 18 | 208+18.67 | 210+35.87 | 37 | 14 | 77 |
| 19 | 210+55.87 | 211+25.00 | 358 | 325 | 302 |
| 20 | 212+00.00 | | 0 | 0 | 0 |
| | SUBTOTAL | s | 415 | 341 | 407 |
| TOTALS | CARRIED TO GE | NERAL SUMMARY | 415 | 341 | 407 |

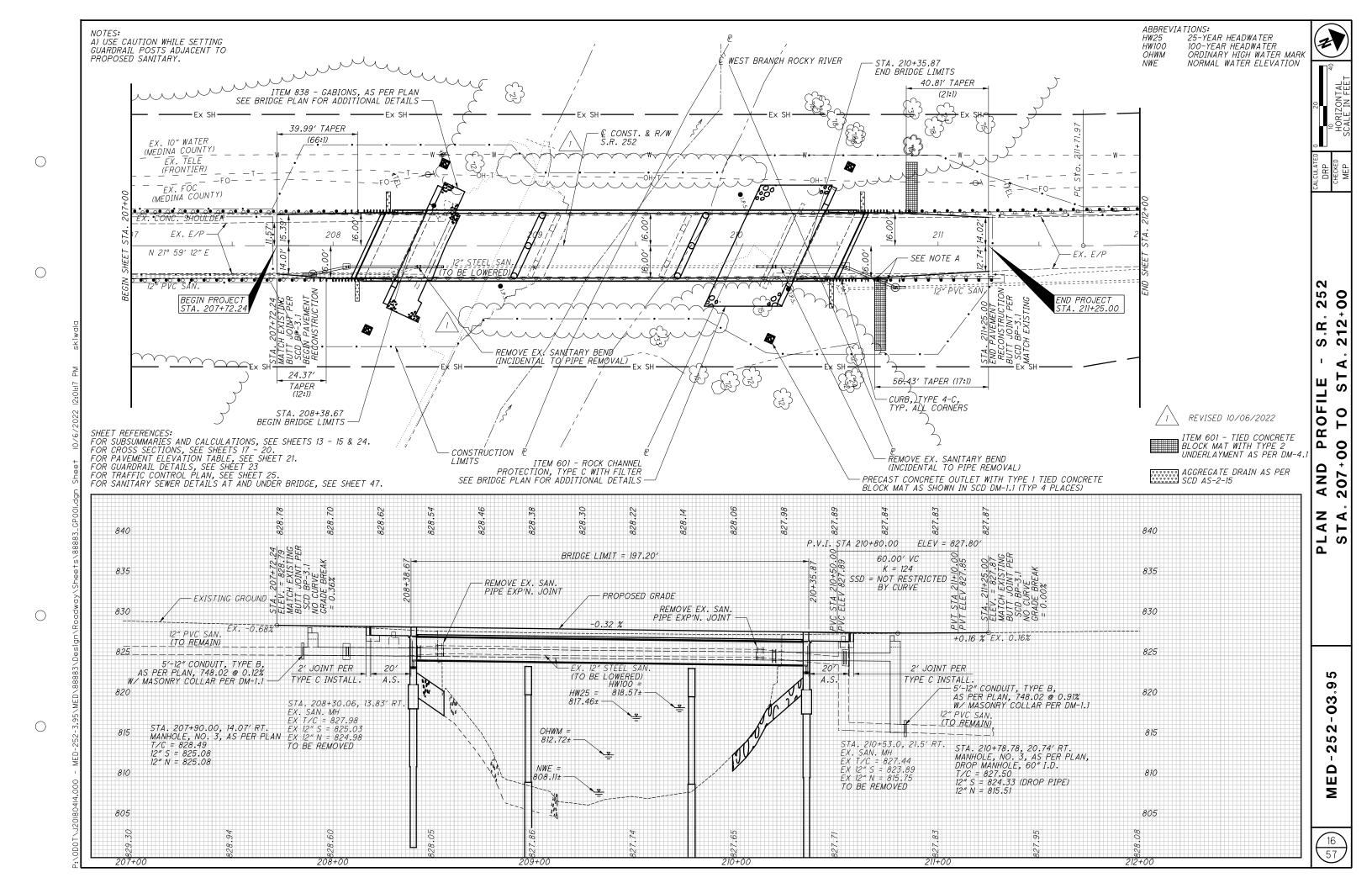
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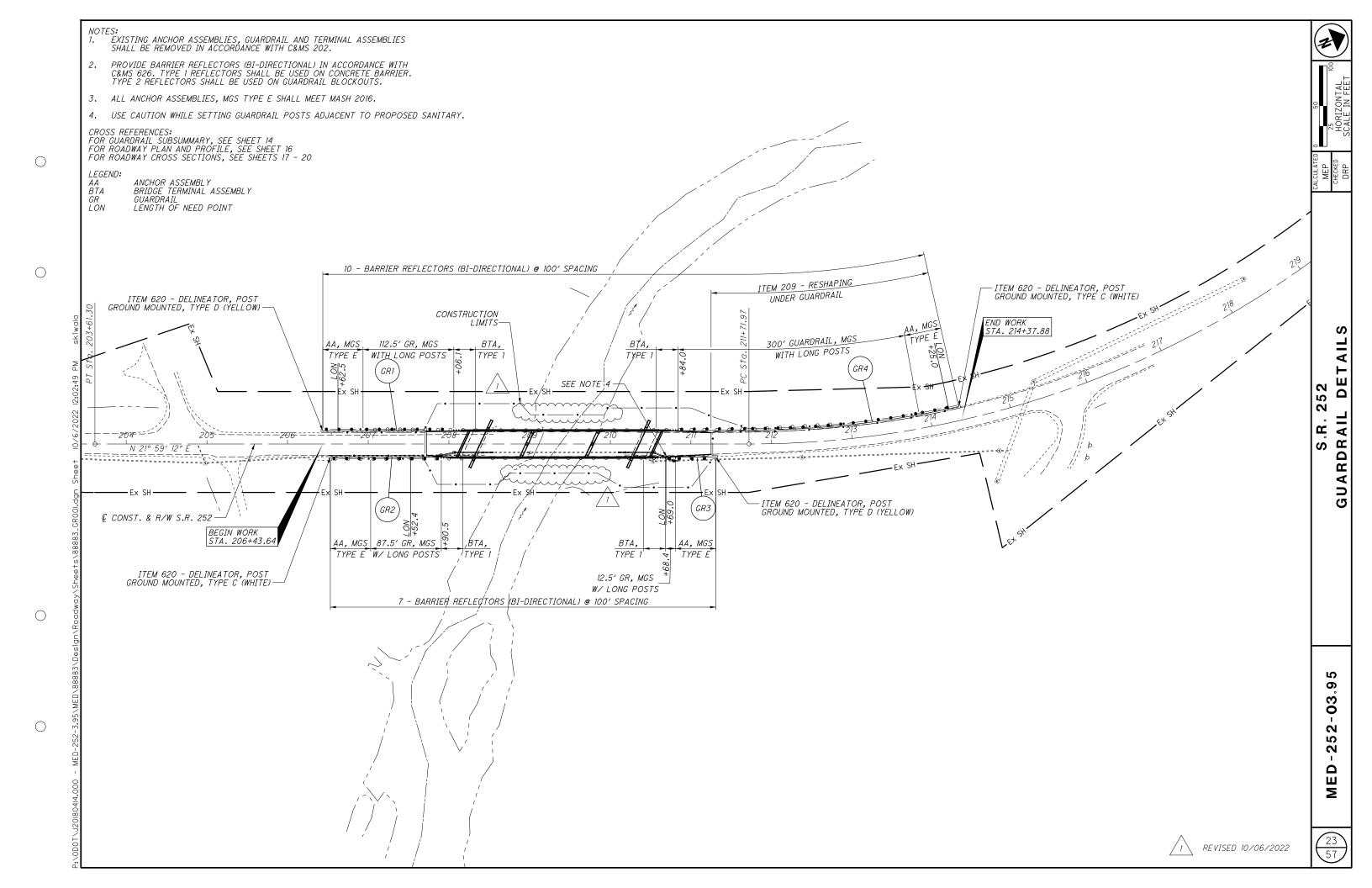
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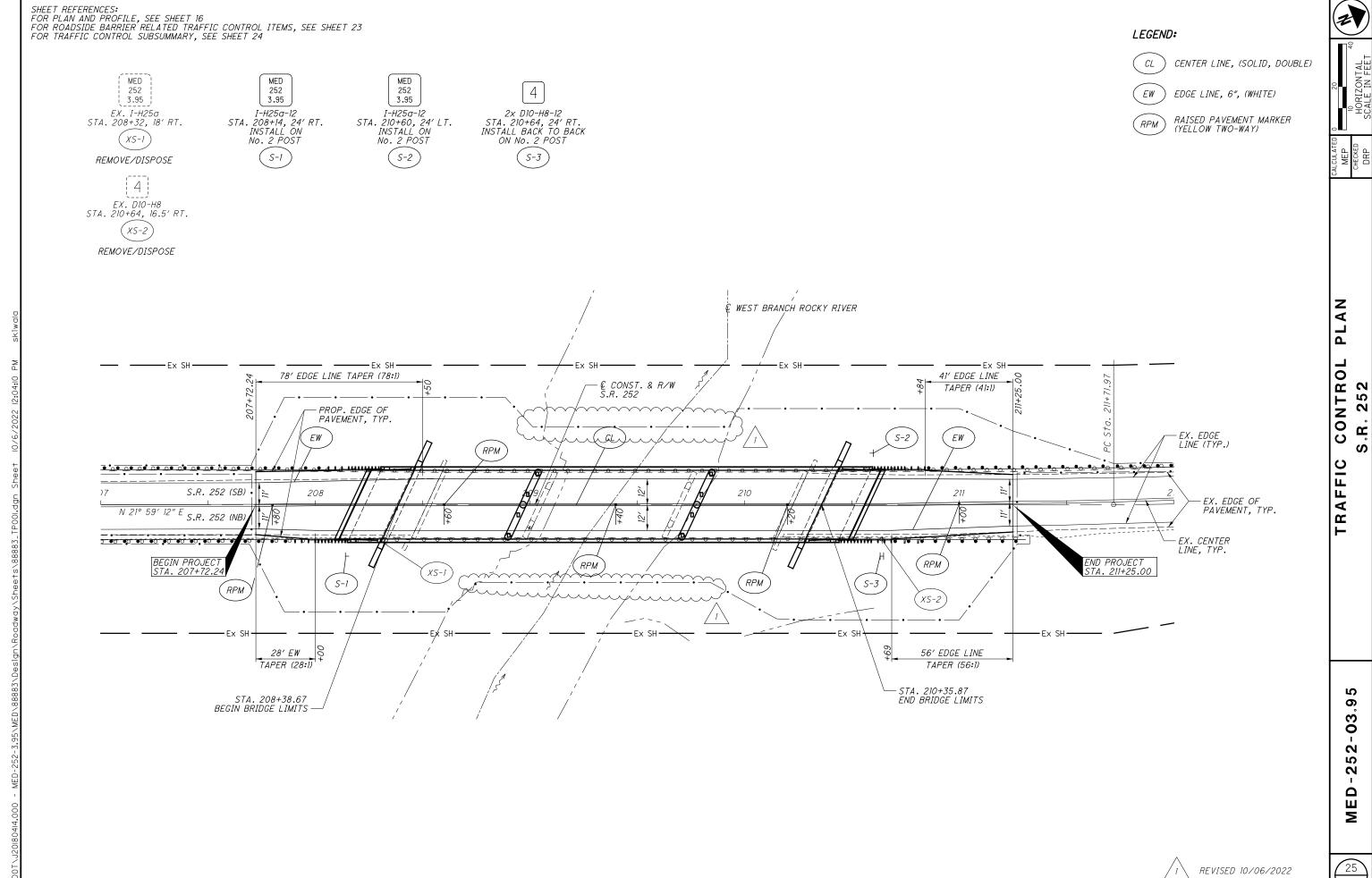
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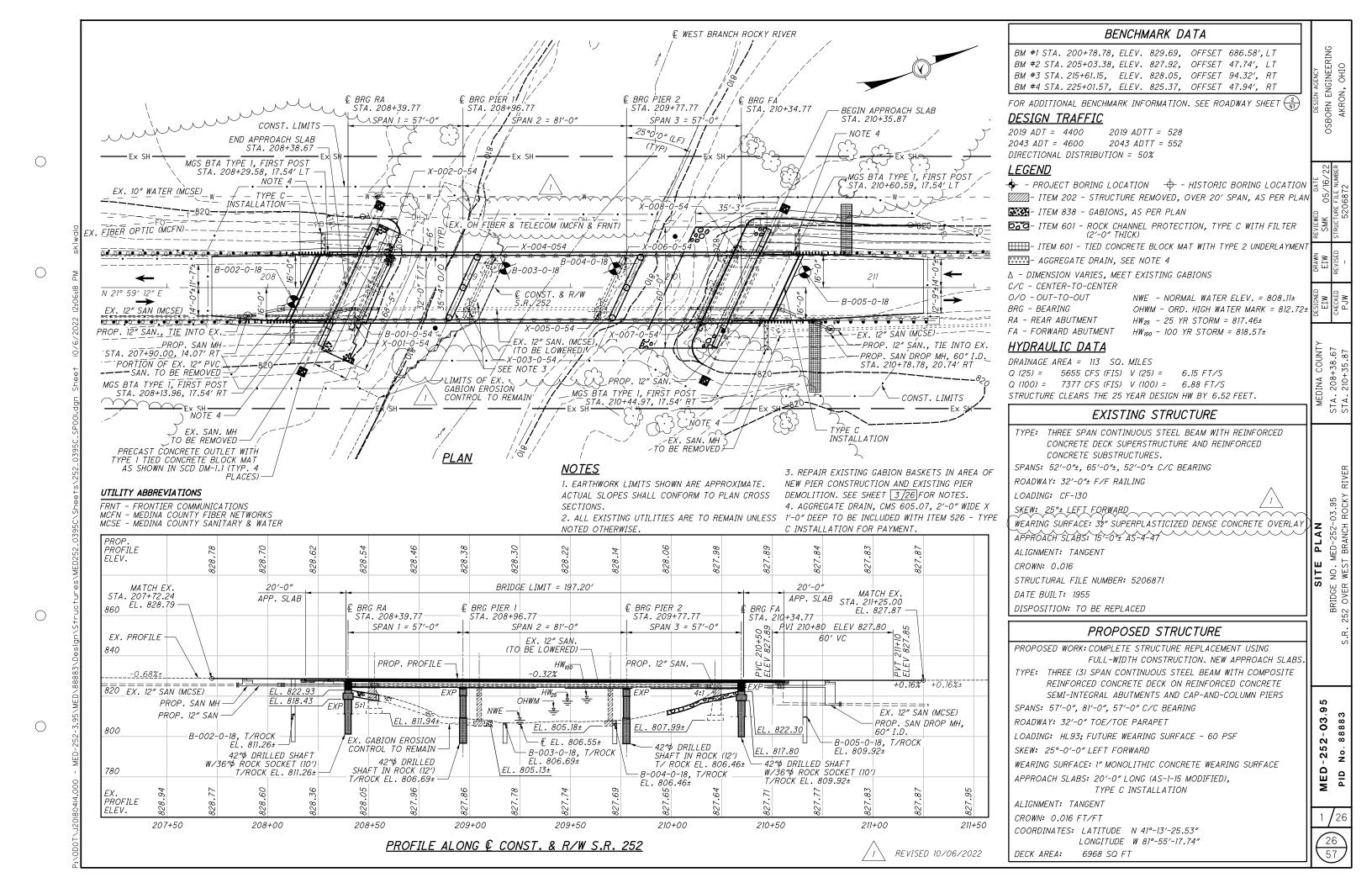
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| | | | | 601 | 601 | 601 | 611 | 838 |
|----------------|------------|-----------|--------|---|---|--|---------------------------------------|----------------------|
| PLAN SHEET NO. | STATION | | SIDE | TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT | TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT | ROCK CHANNEL PROTECTION, TYPE C WITH FILTER | PRECAST REINFORCED CONCRETE OUTLET | GABIONS, AS PER PLAN |
| | FROM | ТО | | SY | SY | CY | EACH | CY |
| | S.R. | 252 | | | | | | |
| 16 | 208+17.06 | | RT | 1.78 | | | 1 | |
| 16 | 208+26.57 | 208+65.28 | LT/RT | | | | | 65 |
| 16 | 208+55.14 | | LT | 1.78 | | | 1 | |
| 16 | 209+84.13 | 210+47.37 | LT/RT | | | 160 | | |
| 16 | 210+16.86 | | RT | 1.78 | | | 1 | |
| | | | | | | | | |
| 16 | 210+58.23 | | LT | 1.78 | | | 1 | |
| 16 | 210+71.32 | | RT | | 23.53 | | | |
| 16 | 210+86.94 | | LT | | 16.53 | | | |
| | | | | | | | | |
| | SUBT | OTALS | | 7.12 | 40.06 | 160 | 4 | > 65 |
| OTALS | CARRIED TO | GENERAL S | UMMARY | 7 | 40 | 160 | 4 | 65 |









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STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

| AS-1-15 | REVISED | 07/17/2015 |
|-----------|--------------|------------|
| AS-2-15 | REVISED | 01/18/2019 |
| GSD-1-19 | <i>DATED</i> | 01/15/2021 |
| PCB-91 | REVISED | 07/17/202 |
| SBR-1-20 | REVISED | 07/17/2020 |
| SICD-2-14 | DATED | 01/15/2021 |

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

| 800 | <i>DATED</i> | 07/15/2022 |
|-----|--------------|------------|
| 838 | DATED | 01/15/2021 |

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 8TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2017, AND THE ODOT BRIDGE DESIGN MANUAL, 2019.

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.0 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL 2019.

DESIGN LOADING

DESIGN LOADING: HL-93

FUTURE WEARING SURFACE (FWS) OF 0.060 KIPS/SQ .FT.

DESIGN DATA

CONCRETE QC2 WITH QC/QA - COMPRESSIVE STRENGTH 4500 PSI (SUPERSTRUCTURE)

CONCRETE QCI WITH QC/QA - COMPRESSIVE STRENGTH 4000 PSI (SUBSTRUCTURE)

CONCRETE QC5 - COMPRESSIVE STRENGTH 4500 PSI (DRILLED SHAFTS)

REINFORCING STEEL - ASTM A615 OR A996, GRADE 60, MINIMUM YIELD STRENGTH 60,000 PSI

STRUCTURAL STEEL - ASTM A709 GRADE 50, MINIMUM YIELD STRENGTH 50 KSI

DECK PROTECTION METHOD

EPOXY COATED REINFORCING STEEL 21/2" CONCRETE COVER

MONOLITHIC WEARING SURFACE

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1 INCH THICK.

UTILITY LINES

THE UTILITIES SHALL BORE ALL EXPENSE INVOLVED IN PROPOSED WORK TO, TEMPORARY SUPPORT AND MAINTENANCE OF, OR RELOCATION OF THE AFFECTED UTILITY LINES. THE CONTRACTOR AND UTILITIES ARE TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

EXISTING MEDINA COUNTY SANITARY SERVICE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

DRILLED SHAFTS

THE MAXIMUM FACTORED LOAD TO BE SUPPORTED BY EACH DRILLED SHAFT IS 357 KIPS AT THE ABUTMENTS AND 779 KIPS AT THE PIERS. THIS LOAD IS RESISTED BY TIP RESISTANCE. THE FACTORED RESISTANCE PROVIDED BY THE DRILLED SHAFT TIP IS 2554 KIPS AT THE ABUTMENTS AND 3114 KIPS AT THE PIERS.

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04. BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

DECK PLACEMENT DESIGN ASSUMPTIONS

THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHODS WERE MADE FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR SUPERSTRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN ASSUMPTIONS.

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.2 KIPS. A MINIMUM OUT-TO-OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103".

A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 IN.

A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 65".

ITEM 202 - STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

THE EXISTING MED-252-03.95 BRIDGE STRUCTURE SHALL BE REMOVED IN ITS ENTIRETY EXCEPT AS NOTED:

REMOVAL SHALL BE PERFORMED IN PHASES AS SHOWN ON SHEET 5/26 TO FACILITATE SUPPORT OF TEMPORARY SANITARY BYPASS LINE DURING SANITARY WORK AND SUPPORT OF THE EXISTING SANITARY LINE TO REMAIN IN SERVICE. THE CONTRACTOR HAS THE OPTION TO SUBMIT AN ALTERNATE METHOD OF TEMPORARY SUPPORT FOR APPROVAL.

REMOVE EXISTING ABUTMENTS TO ELEVATIONS SHOWN ON SHEET 5 /26.

ITEM 509 - EPOXY COATED REINFORCING STEEL, AS PER PLAN

IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT THE REINFORCING STEEL DESIGNATED IN THE PLANS, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCES AND BAR SPACINGS. REPAIR ALL DAMAGE TO THE EPOXY COATING, AS A RESULT OF THIS WORK, ACCORDING TO 709.00.

ITEM 514 - FIELD PAINTING, MISC.: EXISTING SANITARY PIPE

THIS ITEM SHALL INCLUDE SURFACE PREPARATION AND FIELD PAINTING OF THE EXISTING STEEL SANITARY LINE SUPPORTED ON THE BRIDGE BEAMS. ALL ELEMENTS OF CMS ITEM 514 SHALL APPLY WITH THE FOLLOWING ADDITIONS AND REVISIONS:

SURFACE PREPARATION: REMAINING PORTIONS OF THE EXISTING SANITARY LINE SHALL BE SOLVENT CLEANED IN ACCORDANCE WITH CMS 514.13.A. POWER-TOOL CLEANING BY THE METHODS DESCRIBED IN SSPC-SP-3 SHALL THEN BE USED IN AREAS WITH RUST, CORROSION, OR LOOSE EXISTING PAINT. FOLLOWING THESE STEPS, ANY REMAINING COATING SHALL BE REMOVED BY SANDING. EXTRA CARE SHALL BE TAKEN TO AVOID DAMAGE AND LOSS OF THICKNESS TO THE EXISTING SANITARY PIPE AS A

ITEM 514 - FIELD PAINTING, MISC.: EXISTING SANITARY PIPE (CONT'D)

RESULT OF SURFACE PREPARATION OPERATIONS. ABRASIVE BLASTING OF NEW OR EXISTING SANITARY LINE SEGMENTS SHALL NOT BE PERMITTED.

FIELD PAINTING: FIELD PAINTING SHALL BE IN ACCORDANCE WITH CMS 514.17. REMAINING PORTIONS OF THE EXISTING SANITARY LINE SHALL RECEIVE PRIME, INTERMEDIATE, AND FINISH COAT APPLICATIONS OF PAINT SYSTEM OZEU.

FINISH COAT SHALL MATCH THE FINISH COAT COLOR OF THE NEW STEEL BEAMS.

CONTRACTOR SHALL TAKE SPECIAL CARE DURING SURFACE PREPARATION AND PAINTING TO PROTECT THE PIPE EXPANSION JOINTS AND GALVANIZED PIPE SUPPORTS AND ROLLERS. SEE SHEET 22/26 FOR DETAILS ON THE LIMITS OF PAINTING AROUND EXPANSION JOINTS. DAMAGE TO THE GALVANIZED COATING OF PIPE SUPPORTS AND ROLLERS SHALL BE REPAIRED BY THE CONTRACTOR ACCORDING TO ODOT CMS 711.02 AT NO ADDITIONAL COST TO THE DEPARTMENT.

FIELD PAINTING AND INSPECTION REPAIRS OF NEW CROSSFRAMES SUPPORTING THE SANITARY LINE SHALL BE INCLUDED WITH ITEM 514 - FIELD PAINTING OF STRUCTURAL STEEL, INTERMEDIATE COAT, ITEM 514 - FIELD PAINTING OF STRUCTURAL STEEL, FINISH COAT, AND ITEM 514 - FINAL INSPECTION REPAIR.

PAYMENT SHALL INCLUDE ALL EQUIPMENT, LABOR AND MATERIAL TO COMPLETE THE SURFACE PREPARATION, PRIME, INTERMEDIATE AND FINAL COATS OF PAINT. PAYMENT SHALL BE THE NUMBER OF SQUARE FEET OF PIPE, ELBOWS AND APPLICABLE FITTINGS PAINTED. PAYMENT SHALL BE MADE UNDER ITEM 514 - FIELD PAINTING, MISC.: EXISTING SANITARY PIPE.

ITEM 514 - FIELD PAINTING, MISC .: NEW SANITARY PIPE

THIS ITEM SHALL INCLUDE INTERMEDIATE AND FINAL FIELD PAINTING OF THE NEW SEGMENTS OF THE SANITARY LINE SUPPORTED ON THE BRIDGE BEAMS. ALL ELEMENTS OF CMS ITEM 514 SHALL APPLY WITH THE FOLLOWING ADDITIONS AND REVISIONS:

FIELD PAINTING: FIELD PAINTING SHALL BE IN ACCORDANCE WITH CMS 514.17. NEW SEGMENTS OF THE SANITARY LINE SHALL RECEIVE INTERMEDIATE AND FINISH COAT APPLICATIONS OF PAINT SYSTEM IZEU.

FINISH COAT SHALL MATCH THE FINISH COAT COLOR OF THE NEW STEEL BEAMS.

CONTRACTOR SHALL TAKE SPECIAL CARE DURING PAINTING TO PROTECT THE PIPE EXPANSION JOINTS AND GALVANIZED PIPE SUPPORTS AND ROLLERS. SEE SHEET 22/26 FOR DETAILS ON THE LIMITS OF PAINTING AROUND EXPANSION JOINTS. DAMAGE TO THE GALVANIZED COATING OF PIPE SUPPORTS AND ROLLERS SHALL BE REPAIRED BY THE CONTRACTOR ACCORDING TO ODOT CMS 711.02 AT NO ADDITIONAL COST TO THE DEPARTMENT.

FIELD PAINTING AND INSPECTION REPAIRS OF NEW CROSSFRAMES SUPPORTING THE SANITARY LINE SHALL BE INCLUDED WITH ITEM 514 - FIELD PAINTING OF STRUCTURAL STEEL, INTERMEDIATE COAT, ITEM 514 - FIELD PAINTING OF STRUCTURAL STEEL, FINISH COAT, AND ITEM 514 - FINAL INSPECTION REPAIR.

PAYMENT SHALL INCLUDE ALL EQUIPMENT, LABOR AND MATERIAL TO COMPLETE THE INTERMEDIATE AND FINAL COATS OF PAINT. PAYMENT SHALL BE THE NUMBER OF SQUARE FEET OF PIPE, ELBOWS AND APPLICABLE FITTINGS PAINTED. PAYMENT SHALL BE MADE UNDER ITEM 514 - FIELD PAINTING, MISC.: NEW SANITARY PIPE.

ITEM SPECIAL - STRUCTURES: TEMPORARY UTILITY SUPPORT STRUCTURE, AS PER PLAN

THIS ITEM SHALL CONSIST OF PREPARING PLANS, PROVIDING, MAINTAINING AND SUBSEQUENTLY REMOVING A FULLY ENGINEERED TEMPORARY UTILITY STRUCTURE FOR SUPPORTING MEDINA COUNTY SANITARY ENGINEER'S (MCSE) EXISTING SANITARY LINE WHICH WILL REMAIN IN SERVICE (VIA BYPASS PUMPS AND TEMPORARY SEWER LINES, PAID UNDER SEPARATE ITEM) DURING CONSTRUCTION OF THE PROJECT, IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, EXCEPT AS MODIFIED HEREIN AND IN REASONABLY CLOSE CONFORMITY WITH THE ALIGNMENT, PROFILE, LOCATION AND DETAILS SHOWN ON SHEET 22/26.

THIS ITEM SHALL ALSO INCLUDE PAYMENT FOR LOWERING OF THE EXISTING PORTION OF THE SANITARY LINE TO REMAIN TO MATCH PROPOSED FLOW LINE ELEVATIONS. THE LINE SHALL BE FULLY SUPPORTED BY THE TEMPORARY STRUCTURE PRIOR TO AND DURING LOWERING. LOWERING SHALL BE UNIFORM WITH A MAXIMUM ALLOWABLE DIFFERENTIAL BETWEEN PIPE SUPPORT LOCATIONS OF 1/8" DURING LOWERING OPERATIONS.

ANY DAMAGE TO THE EXISTING PIPE TO REMAIN RESULTING FROM TEMPORARY SUPPORT OR LOWERING OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DEPARTMENT OR MCSE.

THREE (3) COPIES OF THE CONTRACTOR'S PLAN FOR THE PROPOSED TEMPORARY STRUCTURE AND TWO (2) COPIES OF THE DESIGN COMPUTATIONS SHALL BE SUBMITTED TO THE DEPARTMENT AT LEAST 30 DAYS PRIOR TO ITS SCHEDULED CONSTRUCTION. THE CONTRACTOR SHALL ALSO SUBMIT TWO (2) COPIES OF TEMPORARY STRUCTURE PLANS TO MCSE AT LEAST 30 DAYS PRIOR TO ITS SCHEDULED CONSTRUCTION FOR THEIR REVIEW AND APPROVAL. SUCH CONSTRUCTION SHALL NOT BEGIN UNTIL AFTER APPROVAL HAS BEEN RECEIVED. THE PLANS SHALL BE PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER.

THE STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH THE AASHTO "LRFD BRIDGE DESIGN SPECIFICATIONS - 8TH EDITION - 2017".

THE STRUCTURE SHALL BE DESIGNED TO SUPPORT A TOTAL FACTORED UTILITY LOAD OF 205 POUNDS PER LINEAR FOOT.

ERECTION, MAINTENANCE AND SUBSEQUENT REMOVAL OF THE TEMPORARY UTILITY STRUCTURE SHALL BE INCLUDED FOR PAYMENT WITH ITEM SPECIAL - STRUCTURES: TEMPORARY UTILITY SUPPORT STRUCTURE, AS PER PLAN.

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REVISED 10/06/2022

THIS ITEM INCLUDES REMOVING EXISTING GABIONS TO CONSTRUCT THE REAR ABUTMENT AND PIER I SUBSTRUCTURES.
ALL GABION CONSTRUCTION AND REPAIRS SHALL COMPLY WITH SUPPLEMENTAL SPECIFICATION—838—GABIONS, EXCEPT THAT GABION HEIGHT SHALL MATCH THE EXISTING ADJACENT GABIONS IN PLACE (1'-6" TYPICAL FOR GABION MATS, 3'-0" FOR GABION WALL). SEE EXISTING PLAN INFORMATION FOR ADDITIONAL DETAILS.

NEW GABIONS AT THE REAR ABUTMENT SHALL BE PLACED TO THE LIMITS SHOWN ON THE SITE PLAN AND FILL THE VOID BETWEEN THE PROPOSED ABUTMENT AND THE EXISTING GABION BASKETS. NEW AND EXISTING ADJOINING GABIONS SHALL BE CONNECTED USING LACING WIRE PER SUPPLEMENTAL SPECIFICATION 838. THE ESTIMATED GABION VOLUME IS 52 GY AT THE REAR ABUTMENT.

EXISTING GABIONS SHALL BE REMOVED FOR INSTALLATION OF THE NEW PIER 1 DRILLED SHAFTS AND COLUMNS. IT IS ANTICIPATED THAT A 6 FOOT BY 6 FOOT PLAN AREA OF EXISTING GABIONS WILL REQUIRE REMOVAL AND REPLACEMENT AT EACH PIER COLUMN. THE CONTRACTOR SHALL CUT TOP AND BOTTOM MATS AND REMOVE INTERFERING SIDE PANELS AND DIAPHRAGMS. REMOVE EXISTING STONE. CONTRACTOR MAY STORE STONE FOR LATER RE-USE IF THE MATERIAL MEETS THE REQUIREMENTS OF SUPPLEMENTAL SPECIFICATION 838 AND IS ACCEPTABLE TO THE ENGINEER CONSTRUCT PIER - PER PLAN. INSTALL NEW GABION BASKETS IN THE AREA REMOVED FOR PIER 1 CONSTRUCTION. THE USE OF LOOSE STONE CONFORMING TO THE SUPPLEMENTAL SPECIFICATION 838.02.B FILL REQUIREMENTS WILL BE PERMITTED TO FILL IN THE GAPS BETWEEN THE PIER 1 COLUMNS AND THE NEW GABION BASKETS INSTALLATION. THE REPLACEMENT GABIONS SHALL BE JOINED TO THE EXISTING ADJACENT GABIONS USING LACING WIRE PER SUPPLEMENTAL SPECIFICATION 838. AFTER PLACING EXISTING SALVAGED OR NEW STONE, THE TOP MAT SHALL BE INSTALLED AND LACED TO NEW SIDE PANELS, DIAPHRAGMS AND ADJOINING GABION BASKETS. THE ESTIMATED GABION VOLUME IS(6 CY AT PIER 1.

AFTER REMOVAL OF THE EXISTING PIER 1, NEW GABIONS SHALL

BE PLACED PER SUPPLEMENTAL SPECIFICATION, 838-TO-INFILL

THE GAP BETWEEN THE EXISTING GABION BASKETS. THE

CONTRACTOR HAS THE OPTION TO LEAVE THE EXISTING PIER 1

FOOTINGS IN PLACE IN CONFORMANCE WITH THE REQUIREMENTS

OF CMS 202.03 STRUCTURES REMOVED AND INSTALL THE NEW

GABIONS OVER THE EXISTING PIER 1 FOOTINGS. NEW AND

EXISTING CABIONS SHALL BE CONNECTED USING LACING WIRE PER
SUPPLEMENTAL SPECIFICATION 838. ESTIMATED GABION VOLUME

IS (7 CY)

ADDITIONALLY, THE CONTRACTOR SHALL USE EXTREME CARE DURING CONSTRUCTION OPERATIONS TO NOT DAMAGE EXISTING GABIONS, ALONG, THE, SQUTH, BANK, OF, THE, WEST, BRANCH, OF, ROCKY RIVER. AN ACCESS PLAN SHALL BE SUBMITTED TO THE DISTRICT FOR APPROVAL A MINIMUM OF 30 DAYS PRIOR TO CONSTRUCTION. EXISTING GABIONS DAMAGED WITHIN THE APPROVED ACCESS AREA WILL BE COMPENSATED AT THE BID ITEM UNIT PRICE. EXISTING GABIONS DAMAGED DURING CONSTRUCTION OPERATIONS OUTSIDE OF THE APPROVED ACCESS AREA SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE STATE. REPAIRS SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER.

MEASUREMENT OF GABIONS SHALL BE THE NUMBER OF CUBIC YARDS OF VOLUME COMPLETED AND ACCEPTED.

THIS ITEM SHALL INCLUDE THE GABIONS, FILL MATERIAL, EXCAVATION, AND ALL EQUIPMENT, LABOR AND MATERIAL TO COMPLETELY INSTALL THE BASKET. PAYMENT SHALL BE THE CUBIC YARDS IN PLACE AND ACCEPTED. PAYMENT SHALL BE MADE UNDER ITEM 838 - GABIONS, AS PER PLAN.

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