

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

ELECTRIC OHIO EDISON 1717 ASHLAND ROAD MANSFIELD, OH 44905 419.521.6214	GAS COLUMBIA GAS OF OHIO 1021 NORTH MAIN STREET MANSFIELD, OH 44903 419.528.1134	COMMUNICATION BRIGHTSPEED 203 W. 9TH STREET LORAIN, OH 44052 440.244.8330	SANITARY SEWER CITY OF ONTARIO 555 STUMBO ROAD ONTARIO, OH 44906 419.529.3818
STORM SEWER CITY OF ONTARIO 556 STUMBO ROAD ONTARIO, OH 44907 419.529.3819	WATER CITY OF ONTARIO 558 STUMBO ROAD ONTARIO, OH 44909 419.529.3821	TRAFFIC CITY OF ONTARIO 557 STUMBO ROAD ONTARIO, OH 44908 419.529.3820	CITY CITY OF MANSFIELD 30 N DIAMOND STREET MANSFIELD, OH 44902 419.755.9626

THE AFOREMENTIONED UTILITY COMPANIES AND AGENCIES HAVE VARIOUS FACILITIES IN THE AREA THAT WILL REMAIN IN PLACE DURING CONSTRUCTION.

EXTREME CAUTION SHOULD BE EXERCISED IN AREAS WITH UTILITIES. SECTIONS 105.07 AND 107.16 OF THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS REQUIRE, AMONG OTHER THINGS, THAT THE CONTRACTOR COOPERATE WITH ALL UTILITIES LOCATED WITHIN THE LIMITS OF THIS CONSTRUCTION PROJECT AND TAKE RESPONSIBILITY FOR THE PROTECTION OF THE UTILITY PROPERTY AND SERVICES.

EXISTING PLANS

EXISTING PLANS, LISTED BELOW, MAY BE INSPECTED IN THE ODOT DISTRICT THREE OFFICE IN ASHLAND.

TITLE	DATE
RIC-30-3.74 / RIC-CH 135	1976
RIC-309-8.72	2008

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

ROUTINE MAINTENANCE

BETWEEN THE TIME THAT BIDS ARE TAKEN AND THE START OF CONSTRUCTION, THE MAINTAINING AGENCY MAY ENTER UPON THE PROJECT AND PERFORM ROUTINE MAINTENANCE SUCH AS CRACK SEALING, PATCHING, AND BERM AND SHOULDER REPAIR. THE EFFECTS, IF ANY, OF THE PERFORMANCE OF ROUTINE MAINTENANCE SHALL BE CONSIDERED AS INHERENT IN WORK OF THE CHARACTER PROVIDED FOR IN THE PLAN AND THE RESULTING CONDITIONS SHALL NOT BE CONSIDERED AS DIFFERING MATERIALLY FROM THOSE EXISTING AT THE TIME BIDS WERE TAKEN.

REFERENCES MADE TO STANDARD BRIDGE DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

SUPPLEMENTAL SPECIFICATION	DATE
849	1/18/2013

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 PRE-BID EXAMINATION OF THE EXISTING STRUCTURE(S). HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

DESIGN SPECIFICATIONS

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN DATA

DESIGN LOADING: HS20-44
STRUCTURAL STEEL: ASTM A709 GRADE 50 – YIELD STRENGTH 50 KSI
CVN IS NOT REQUIRED FOR CROSSFRAME MATERIALS

STEEL RESTRAINT OR PRELOAD LIMITS

THE EXISTING STRUCTURAL STEEL TO BE HEAT STRAIGHTENED IS GRADE ASTM A36. DO NOT SUBJECT ANY PART OF THE STRUCTURE TO A JACKING, PULLING, OR RESTRAINING UNIT STRESS EXCEEDING 18 KSI, OR 50% OF THE YIELD STRESS. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING AND NOT EXCEEDING THESE STRESSES IN THE EXISTING STEEL USING A METHOD APPROVED BY THE ENGINEER.

ITEM 202 – PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SECONDARY MEMBERS)

THIS ITEM CONSISTS OF THE REMOVAL OF THE EXISTING SECONDARY MEMBERS TO THE LIMITS SHOWN IN THE PLANS. FLAME OR SAW CUT THE EXISTING SECONDARY MEMBERS ACCORDING TO C&MS 513. PROVIDE SHIELDING AS NECESSARY TO PREVENT DAMAGE TO MAIN OR SECONDARY MATERIALS THAT ARE TO REMAIN. GRIND THE REMAINING SURFACES OF THE EXISTING MEMBERS ADJACENT TO THE REMOVED MEMBER SMOOTH IN PREPARATION FOR COMPLETE PENETRATION OR FILLET WELDING. PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 MIL (TO ACCOMMODATE THE PROPOSED REPLACEMENT MATERIALS).

PAYMENT FOR ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETE THE ABOVE WORK WILL BE MADE AT THE CONTRACT LUMP SUM BID PRICE FOR ITEM 202 – PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SECONDARY MEMBERS).

ITEM 512 - CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN

PRIOR TO PERFORMING THIS WORK, COMPLETE HEAT STRAIGHTENING IN ACCORDANCE WITH SS 849, BRINGING THE STRUCTURAL STEEL TO WITHIN 100 MILLS OF THE HAUNCH SURFACE OR TO THE SATISFACTION OF THE ENGINEER.

PERFORM CONCRETE REPAIR BY EPOXY INJECTION ON ALL CRACKS WIDER THAN 2 MILS IN THICKNESS ALONG THE HAUNCH SURFACES ADJACENT TO AND ABOVE THE TOP FLANGE OF THE BEAMS INDICATED IN THE PLANS. THE PRIMARY PURPOSE OF THIS WORK IS TO REPAIR AREAS OF SEPARATION BETWEEN THE TOP FLANGES OF THE BEAMS AND THE HAUNCH, AS SHOWN ON THE STRUCTURE DETAIL SHEETS.

PRIOR TO PERFORMING EPOXY INJECTION, REMOVE SPALLED CONCRETE BY METHODS THAT WILL NOT CAUSE ADDITIONAL DAMAGE TO THE HAUNCH, TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR THIS WORK WILL BE AT THE UNIT PRICE PER FOOT FOR ITEM 512 - CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN. THE DEPARTMENT WILL MEASURE THIS WORK AS LINEAR FEET ALONG THE BEAM ADJACENT TO WHERE CRACK REPAIR IS ACTUALLY CARRIED OUT.

ITEM 513 – STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN (CROSSFRAME MEMBERS)

ALL REQUIREMENTS OF 513 APPLY TO SHOP FABRICATED MEMBERS. PERFORM ALL WORK FOR FIELD FABRICATED MEMBERS ACCORDING TO ITEM 513, EXCEPT AS MODIFIED IN THESE PLANS. THE DEPARTMENT WILL NOT REQUIRE THE CONTRACTOR PERFORMING FIELD FABRICATION TO BE PRE-QUALIFIED AS SPECIFIED IN SUPPLEMENT 1078. SUBMIT A WRITTEN LETTER OF MATERIAL ACCEPTANCE, 501.06, TO THE ENGINEER. PROVIDE SHOP DRAWINGS ACCORDING TO 513.06 OR SUPPLY THE ENGINEER WITH "AS-BUILT" DRAWINGS MEETING 513.06 AFTER COMPLETION OF FIELD FABRICATION. THE ENGINEER WILL REVIEW THE SUBMITTED DRAWINGS FOR CONCURRENCE WITH THE FINAL AS-BUILT CONDITION. IF NECESSARY, THE ENGINEER MAY CONTACT THE OFFICE OF STRUCTURAL ENGINEERING FOR TECHNICAL ASSISTANCE. IF THE ENGINEER IS SATISFIED WITH THE AS-BUILT DRAWINGS AND THE DELIVERED MATERIALS, SUPPLY A COPY OF THE DRAWINGS, STAMPED AND DATED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF OHIO, TO THE STRUCTURAL, WELDING, AND METALS SECTION OF THE OFFICE OF MATERIAL MANAGEMENT FOR RECORD PURPOSES.

PAYMENT FOR THE REPLACEMENT OF DAMAGED CROSS FRAMES SHALL BE AT THE UNIT BID PRICE PER POUND FOR THE ABOVE ITEM, WHICH INCLUDES ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETE THIS WORK.

THE FOLLOWING MEMBERS ARE INCLUDED IN THIS ITEM: CROSS FRAMES: L 3" X 3" X 5/16" ANGLE

ITEM 849 – DAMAGE ASSESSMENT

ITEM 849 – SURFACE PREPARATION

ITEM 849 – REPAIRING DAMAGED MEMBERS BY GRINDING

ITEM 849 – STRAIGHTENING DAMAGED MEMBERS

THESE ITEMS SHALL BE IN ACCORDANCE WITH THE SUPPLEMENTAL SPECIFICATION FOR HEAT STRAIGHTENING OF DAMAGED STRUCTURAL STEEL.

PAYMENT FOR ALL OF THE ABOVE WORK ITEMS SHALL BE AT THE UNIT BID PRICE FOR EACH OF THE ABOVE ITEMS WHICH INCLUDES ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NEEDED TO COMPLETE THE RESPECTIVE WORK.

DESIGN AGENCY
DISTRICT 3



DESIGNER
JNC

REVIEWER
KAK 10/26/23

PROJECT ID
120126

SHEET TOTAL
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