

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|----------------|------------------------|------------------|-----------|
| 6713 | 05-00148-00-PV | TAZEWELL | 74 | 45 |
| STA. 154+17.98 | | STRUCTURE NO. 090-0027 | | |
| FED. ROAD DIST. NO. 4 | | ILLINOIS | FED. AID PROJECT | |

GENERAL NOTES

- FASTENERS SHALL BE HIGH STRENGTH BOLTS 3/4" Ø, OPEN HOLES 13/16" Ø, UNLESS OTHERWISE NOTED.
- CALCULATED WEIGHT OF STRUCTURAL STEEL= 122,490 LBS.
- FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO BEAMS OR GIRDERS.
- ANCHOR BOLTS SHALL BE SET BEFORE BOLTING DIAPHRAGMS OVER SUPPORTS.
- THE STRUCTURAL STEEL BEARING PLATES OF THE ELASTOMERIC BEARING ASSEMBLY SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 270 GRADE 50.
- THE MAIN LOAD CARRYING MEMBER COMPONENTS SUBJECT TO TENSILE STRESS SHALL CONFORM TO THE SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2. THESE COMPONENTS ARE THE TENSION FLANGES AND WEBS.
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706, GRADE 60.
- PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- PRIOR TO POURING THE NEW CONCRETE DECK, ALL LOOSE RUST, LOOSE MILL SCALE, AND OTHER LOOSE POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACES OF THE BEAMS OR GIRDERS IN CONTACT WITH CONCRETE. THE COST OF THIS WORK WILL BE INCLUDED IN THE PAY ITEM COVERING REMOVAL OF EXISTING CONCRETE. ALL HEAVY RUST AND OTHER TIGHTLY ADHERED POTENTIALLY DETRIMENTAL FOREIGN MATTER SHALL ALSO BE REMOVED FROM THE SURFACES OF THE BEAMS OR GIRDERS IN CONTACT WITH CONCRETE. TIGHTLY ADHERED PAINT MAY REMAIN UNLESS OTHERWISE NOTED. THIS REMOVAL SHALL BE ACCOMPLISHED BY METHODS THAT WILL NOT DAMAGE THE STEEL. THE COST OF THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
- CONCRETE SEALER SHALL BE APPLIED TO THE NEW SEAT AREAS OF THE ABUTMENTS.
- ALL CONSTRUCTION JOINTS SHALL BE BONDED. NEW CONCRETE SHALL BE BONDED TO EXISTING CONCRETE IN THE DECK AND IN THE ABUTMENTS USING AN ADHESIVE CONFORMING TO THE REQUIREMENTS OF ART. 1025.01 OF THE STANDARD SPECIFICATIONS. THE ADHESIVE SHALL BE USED IN CONFORMANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- PAINTING NEW STEEL AS PART OF F & E STRUCTURAL STEEL: THE INORGANIC ZINC RICH PRIMER / ACRYLIC / ACRYLIC PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF NEW STRUCTURAL STEEL EXCEPT WHERE OTHERWISE NOTED. THE COLOR OF THE FINAL FINISH COAT FOR ALL STEEL SURFACES SHALL BE BLUE, MUNSELL NO. 10B3/6. SEE SPECIAL PROVISION FOR "CLEANING AND PAINTING NEW METAL STRUCTURES."

TOTAL BILL OF MATERIAL

| ITEM | UNIT | SUPER | SUB | TOTAL |
|--|---------|--------|-------|--------|
| REMOVAL OF EXISTING SUPERSTRUCTURES | EACH | 1 | | 1 |
| CONCRETE REMOVAL | CU. YD. | | 16.3 | 16.3 |
| STRUCTURE EXCAVATION | CU. YD. | | 4.3 | 4.3 |
| FLOOR DRAINS | EACH | 6 | | 6 |
| PREFORMED JOINT SEAL, 1 3/4" | FOOT | 79.6 | | 79.6 |
| PREFORMED JOINT SEAL, 4" | FOOT | 76.1 | | 76.1 |
| CONCRETE STRUCTURES | CU. YD. | | 25.2 | 25.2 |
| CONCRETE SUPERSTRUCTURE | CU. YD. | 149.3 | | 149.3 |
| * BRIDGE DECK GROOVING | SQ. YD. | 548 | | 548 |
| ** ELASTOMERIC BEARING ASSEMBLY, TYPE I | EACH | 5 | | 5 |
| FURNISHING AND ERECTING STRUCTURAL STEEL | L. SUM | 1 | | 1 |
| *** STUD SHEAR CONNECTORS | EACH | 1,869 | | 1,869 |
| REINFORCEMENT BARS, EPOXY COATED | POUND | 36,210 | 4,370 | 40,580 |
| ** NAME PLATES | EACH | 1 | | 1 |
| EPOXY CRACK INJECTION | FOOT | 40 | 63 | 103 |
| * CONCRETE SEALER | SQ. FT. | | 263 | 263 |
| STRUCTURAL REPAIR OF CONCRETE (DEPTH LESS THAN OR EQUAL TO 5") | SQ. FT. | 1 | 40 | 41 |
| * PROTECTIVE COAT | SQ. YD. | 636 | | 636 |
| REMOVAL OF EXISTING CONCRETE DECK | EACH | 1 | | 1 |
| BAR SPLICERS | EACH | 519 | | 519 |
| TEMPORARY CONCRETE BARRIER | FOOT | 110 | | 110 |
| PERMANENT SURVEY MARKER, TYPE 1 | EACH | | 1 | 1 |

NOTES

- * QUANTITY INCLUDES NEW CONCRETE ONLY.
- ** INCLUDES SALVAGE AND REMOUNTING OF EXISTING NAME PLATE.
- SEE ROADWAY PLANS FOR GUARDRAIL & TERMINALS, BRIDGE APPROACH PAVEMENT, AND TEMPORARY CONCRETE BARRIER BEYOND BACKS OF BRIDGE ABUTMENTS.
- REMOVAL OF EXISTING RAILROAD BRIDGE PAID FOR AS "REMOVAL OF EXISTING SUPERSTRUCTURES".
- PARTIAL REMOVAL OF EXISTING HIGHWAY BRIDGE DECK PAID FOR AS "REMOVAL OF EXISTING CONCRETE DECK".
- PARTIAL REMOVAL OF HIGHWAY AND RAILROAD ABUTMENT CONCRETE (INCLUDING EXISTING "HATCHED AREA" ATOP HIGHWAY BRIDGE ABUTMENT) IS PAID FOR AS "CONCRETE REMOVAL".
- *** REMOVAL OF EXISTING STUDS FROM GIRDERS G4 AND G5, AND PLACEMENT OF NEW STUDS SHALL BE INCLUDED IN THE COST OF STUD SHEAR CONNECTORS. SEE GIRDER DETAILS SHEET.

STATION 154+17.98
REBUILT 20-- BY
CITY OF EAST PEORIA
F.A.U. RT. 6713
SEC. 05-00148-00-PV
LOADING HS20
STR. NO. 090-0027

NAME PLATE
SEE STD. 515001

WATERWAY INFORMATION

| DRAINAGE AREA = 62.9 SQ. MI. | | LOW GRADE ELEV. 454.66 @ STA. 148+42.84 | | | | | | | |
|------------------------------|-----------|---|-----------------|---------|-------------|------------|-------|---------------|-------|
| FLOOD | FREQ. YR. | Q C.F.S. | OPENING SQ. FT. | | NAT. H.W.E. | HEAD - FT. | | HEADWATER EL. | |
| | | | EXIST. | PROP. * | | EXIST. | PROP. | EXIST. | PROP. |
| DESIGN | 50 | 7650 | 939 | 939 | 455.9 | 0.0 | 0.0 | 455.9 | 455.9 |
| BASE | 100 | 8800 | 991 | 991 | 456.5 | 0.0 | 0.0 | 456.5 | 456.5 |
| OVERTOPPING | | | | | | | | | |
| MAX. CALC. | 500 | 11,500 | 1113 | 1113 | 457.9 | 0.0 | 0.0 | 457.9 | 457.9 |

* NOTE: CHANNEL IS LEVEED.

| REVISIONS | |
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| NAME | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
CAMP ST. OVER FARM CREEK DIVERSION CHANNEL GENERAL NOTES & TOTAL BILL OF MATERIAL
SCALE: N.T.S. DRAWN BY: MGM
DATE: 12/22/2008 CHECKED BY: PJJ