

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | | | | | |
|---------------------|---|------------------|----------------|-------------------|----------|--------------|----------|-------|-------|
| | | | | ROADWAY | ROADWAY | URBAN | URBAN | URBAN | URBAN |
| | | | | 0005 | 0005 | 0013 | 0013 | 0059 | 0059 |
| | | | | 046-0001 | 046-0089 | 046-0113 | 046-0114 | | |
| 50300300 | PROTECTIVE COAT | SQ YD | 3,733 | | | 683 | 1747 | 810 | 493 |
| 50301350 | CONCRETE SUPERSTRUCTURE (APPROACH SLAB) | CU YD | 122.5 | | | 122.5 | | | |
| 50500405 | FURNISHING AND ERECTING STRUCTURAL STEEL | POUND | 1280 | | | 1280 | | | |
| 50500505 | STUD SHEAR CONNECTORS | EACH | 6936 | | | 2121 | 4815 | | |
| 50606701 | CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 1 | L SUM | 1 | | | 1 | | | |
| Z0010501 | CLEANING AND PAINTING STEEL BRIDGE NO. 1 | L SUM | 1 | | | 1 | | | |
| 50606702 | CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 2 | L SUM | 1 | | | 1 | | | |
| Z0010502 | CLEANING AND PAINTING STEEL BRIDGE NO. 2 | L SUM | 1 | | | | 1 | | |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 195160 | 30 | | 77920 | 117210 | | |
| 50800515 | BAR SPLICERS | EACH | 483 | | | 483 | | | |
| 51500100 | NAME PLATES | EACH | 2 | | | 1 | 1 | | |
| 52000110 | PREFORMED JOINT STRIP SEAL | FOOT | 95 | | | | 95 | | |
| 52100020 | ELASTOMERIC BEARING ASSEMBLY, TYPE II | EACH | 5 | | | | 5 | | |
| 52100520 | ANCHOR BOLTS, 1" | EACH | 38 | | | 28 | 10 | | |
| 52200010 | TEMPORARY SHEET PILING | SQ FT | 241 | | | 241 | | | |
| 542A1069 | PIPE CULVERTS, CLASS A, TYPE 2 24" | FOOT | 796 | 735 | 61 | | | | |



* SPECIALTY ITEM

MODEL: Default
 FILE NAME: G:\Users\11111287-08\57-Kankakee-County\Survey\2366F09\Consultant_Data\Chamlin_2020\CAD_Sheets\0366F09-SP-005.dgn



| | | |
|-----------------------|----------------|-----------|
| USER NAME = CHAMLIN | DESIGNED - DJD | REVISED - |
| | DRAWN - NV | REVISED - |
| PLOT SCALE = NTS | CHECKED - | REVISED - |
| PLOT DATE = 12/9/2020 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 4 OF 13 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------|----------|--------------------|-----------|
| 57 | 46-(3,4)RS-4 & I-1 | KANKAKEE | 278 | 6 |
| | | | CONTRACT NO. 66F09 | |
| ILLINOIS FED. AID PROJECT | | | | |

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 3/4" in. Ø, holes 15/16" in. Ø, unless otherwise noted.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer.

Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

The end 6' of each beam, the exterior faces of beams 1 and 7, and the bottom flange of beams 1 and 7 be cleaned and painted.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". Existing structural steel shall be cleaned per Near White Blast Cleaning-SSPC-SP10. Existing steel shall be painted according to the requirements of Paint System 1-0Z/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/8. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No. 7.5G 4/8.

Containment of cleaning residue is required to control nuisance dust. See special provisions.

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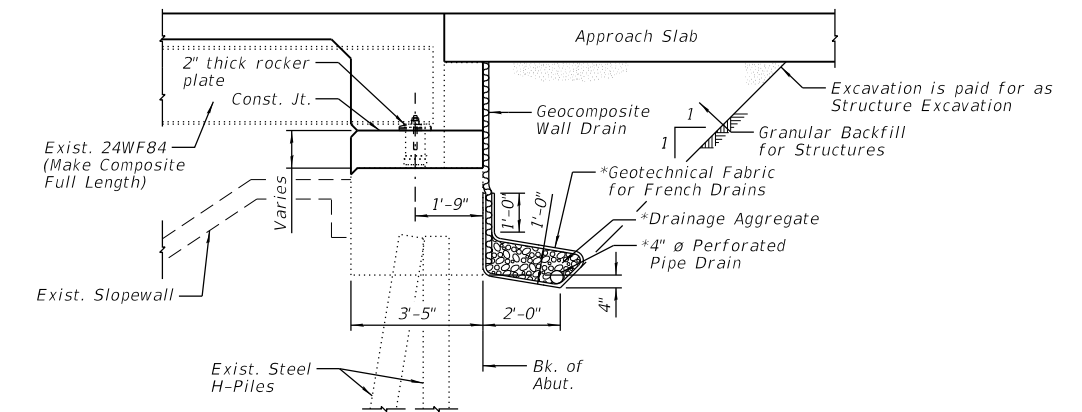
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- 2 General Data
- 3 Slope Wall Repair Details
- 4-5 Stage Construction Details
- 6-7 Top of Deck Elevations
- 8-9 Top of Approach Slab Elevations
- 10 Superstructure
- 11 Superstructure Details
- 12 Diaphragm Details
- 13-14 Bridge Approach Slab Details
- 15-17 Framing Plan and Details
- 18 Bearing Details
- 19 Abutment Plan & Details
- 20 Concrete Parapet Slipforming Option
- 21 Bar Splicer Assembly
- 22 Temporary Concrete Barrier

STATION 500+42.53
RE-BUILT BY
STATE OF ILLINOIS
F.A.I. 57 SECTION 46-(3,4)RS-4 & I-1
LOADING HS20-44&ALT
STRUCTURE NO. 046-0001

NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

| ITEM | UNIT | SUPER | SUB | TOTAL |
|---|---------|-------|-------|-------|
| Granular Backfill for Structures | Cu. Yd. | -- | 128 | 128 |
| Removal of Existing Concrete Deck No. 1 | Each | 1 | -- | 1 |
| Concrete Removal | Cu. Yd. | -- | 12.2 | 12.2 |
| Structure Excavation | Cu. Yd. | -- | 151.5 | 151.5 |
| Floor Drains | Each | 8 | -- | 8 |
| Concrete Structures | Cu. Yd. | -- | 40.1 | 40.1 |
| Concrete Superstructure | Cu. Yd. | 138.9 | -- | 138.9 |
| Bridge Deck Grooving | Sq. Yd. | 598 | -- | 598 |
| Protective Coat | Sq. Yd. | 683 | -- | 683 |
| Concrete Superstructure (Approach Slab) | Cu. Yd. | 122.5 | -- | 122.5 |
| Furnishing and Erecting Structural Steel | Pound | 1280 | -- | 1280 |
| Stud Shear Connectors | Each | 2121 | -- | 2121 |
| Cleaning and Painting Steel Bridge No. 1 | L. Sum | 1 | -- | 1 |
| Reinforcement Bars, Epoxy Coated | Pound | 75600 | 2320 | 77920 |
| Bar Splicers | Each | 483 | -- | 483 |
| Name Plates | Each | 1 | -- | 1 |
| Temporary Sheet Piling | Sq. Ft. | -- | 241 | 241 |
| Anchor Bolt, 1" | Each | -- | 28 | 28 |
| Geocomposite Wall Drain | Sq. Yd. | -- | 73 | 73 |
| Jack and Remove Existing Bearings | Each | 14 | -- | 14 |
| Pipe Underdrains for Structures 4" | Foot | -- | 152 | 152 |
| Slope Wall Repair | Sq. Yd. | -- | 71 | 71 |
| Slope Wall Crack Sealing | Foot | -- | 116 | 116 |
| Bridge Cleaning and Painting Warranty, Number 1 | L. Sum | 1 | -- | 1 |
| Containment and Disposal of non-lead Paint Cleaning Residue No. 1 | L. Sum | 1 | -- | 1 |



SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

MODEL: Default
FILE NAME: G:\Users\11111111287-07-157 Bridges 046-0001 and 046-0089\Survey D366F09\SN 046-0001\Consultant_Data\Chamlin_2020\CAD_Sheets\0460001-66F09-002-GEN-DATA.dgn



| | | | | | |
|--------------|----------|------------|-----|-----------|-----|
| USER NAME = | CHAMLIN | DESIGNED - | JKC | REVISED - | ___ |
| | | CHECKED - | DH | REVISED - | ___ |
| PLOT SCALE = | | DRAWN - | NV | REVISED - | ___ |
| PLOT DATE = | 2/2/2021 | CHECKED - | JKC | REVISED - | ___ |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
STRUCTURE NO. 046-0001**

SHEET 2 OF 22 SHEETS

| | | | | |
|-------------|--------------------|----------|--------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 57 | 46-(3,4)RS-4 & I-1 | KANKAKEE | 278 | 115 |
| | | | CONTRACT NO. 66F09 | |
| | | ILLINOIS | FED. AID PROJECT | |

GENERAL NOTES

No field welding is permitted except as specified in the contract documents.

The Contractor shall test the existing welds by non-destructive methods within 2 ft. of the end of the existing cover plates for cracks after removal of the existing concrete deck. Dye penetrant (PT), magnetic particle (MT), or other approved testing method shall be performed by qualified personnel approved by the Engineer. If cracks are found, report them to the Bureau of Bridges and Structures for disposition. The cost of testing is included in Removal of Existing Concrete Deck. The cost of crack repair, if necessary, will be paid for according to Article 109.04 of the Standard Specifications.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer.

Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

The end 6' of beams 1 thru 5 shall be painted at each abutment and pier2, and the exterior face and bottom flanges of beam 1 and 5 shall be painted from the east abutment to the centerline of pier3.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". Existing structural steel shall be cleaned per Near White Blast Cleaning-SSPC-SP10. Existing steel shall be painted according to the requirements of Paint System 1-02/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/8. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No. 7.5G 4/8.

Containment of cleaning residue is required to control nuisance dust. See special Provisions.

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- 13 Concrete Parapet Slipforming Option
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- 20 Abutment Plan & Details
- 21 Pier Repair Details

STATION 20+96.86
RE-BUILT BY
STATE OF ILLINOIS
F.A.I. 57 SECTION 46-(3,4)RS-4 & I-1
LOADING HS20-44
STRUCTURE NO. 046-0089

NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

| ITEM | UNIT | SUPER | SUB | TOTAL |
|--|---------|--------|------|--------|
| Removal of Existing Concrete Deck No. 2 | Each | 1 | -- | 1 |
| Concrete Removal | Cu. Yd. | -- | 10.1 | 10.1 |
| Protective Shield | Sq. Yd. | 1431 | -- | 1431 |
| Structure Excavation | Cu. Yd. | -- | 11.7 | 11.7 |
| Concrete Superstructure | Cu. Yd. | 490.1 | 13 | 503.1 |
| Bridge Deck Grooving | Sq. Yd. | 1336 | -- | 1336 |
| Protective Coat | Sq. Yd. | 1747 | -- | 1747 |
| Stud Shear Connectors | Each | 4815 | -- | 4815 |
| Cleaning and Painting Steel Bridge No. 2 | L. Sum | 1 | -- | 1 |
| Reinforcement Bars, Epoxy Coated | Pound | 115830 | 1380 | 117210 |
| Name Plates | Each | 1 | -- | 1 |
| Preformed Joint Strip Seal | Foot | 95 | -- | 95 |
| Elastomeric Bearing Assembly, Type II | Each | 5 | -- | 5 |
| Jack and Remove Existing Bearings | Each | 5 | -- | 5 |
| Drainage Scuppers, DS-11 | Each | 6 | -- | 6 |
| Structural Repair of Concrete (Depth Equal to or Less Than 5 inches) | Sq. Yd. | -- | 110 | 110 |
| Slope Wall Repair | Sq. Yd. | -- | 32 | 32 |
| Slope Wall Slurry Pumping | Cu. Yd. | -- | 10.7 | 10.7 |
| Slope wall Crack Sealing | Foot | -- | 180 | 180 |
| Epoxy Crack Injection | Foot | -- | 140 | 140 |
| Containment and Disposal of Non-Lead Paint Cleaning Residues No. 2 | L. Sum | 1 | -- | 1 |
| Bridge Cleaning and Painting Warranty, Number 2 | L. Sum | 1 | -- | 1 |
| Drainage System | L. Sum | 1 | -- | 1 |
| Anchor Bolt, 1" | Each | 10 | -- | 10 |

MODEL: Default
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| | | | | | |
|--------------|----------|------------|-----|-----------|-----|
| USER NAME = | CHAMLIN | DESIGNED - | JKC | REVISED - | ___ |
| | | CHECKED - | NV | REVISED - | ___ |
| PLOT SCALE = | | DRAWN - | NV | REVISED - | ___ |
| PLOT DATE = | 2/2/2021 | CHECKED - | JKC | REVISED - | ___ |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
STRUCTURE NO. 046-0089**

SHEET 2 OF 21 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|--------------------|----------|------------------|-----------|
| 57 | 46-(3,4)RS-4 & I-1 | KANKAKEE | 278 | 203 |
| CONTRACT NO. 66F09 | | | | |
| | | ILLINOIS | FED. AID PROJECT | |