

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES:

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts 3/4 in. ϕ , holes 13/16 in. ϕ , unless otherwise noted.

Calculated weight of Structural Steel =
Gr 50W = 132,300 Lbs.

All structural steel shall be AASHTO M 270 Grade 50W except expansion joints which shall be AASHTO M 270 Grade 50. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".

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

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and the first interior beam at each of these additional bracket locations.

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.

Concrete Sealer shall be applied to the new concrete surfaces of the faces of abutments, bridge seats and backwalls of the closed abutments.

All structural steel and exposed surfaces of bearings within a distance of 7 ft. each way from the deck joints shall be painted as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

Existing abutment reinforcement shall be cleaned and incorporated into the new construction. Cost included with "Concrete Removal."

Slipforming of the parapets is not allowed.

The Contractor is advised that the existing PPC Deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

If the Contractor's procedures for existing deck beam removal or construction of the new superstructure involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the deck beams for the proposed loads. Cost included with Removal of Existing Structures.

There are utilities attached to the northern portions of the superstructure and substructure of the bridge that may or may not be related to the USGS gaging station. It shall be the Contractor's responsibility to determine the utility owners and to coordinate and maintain and temporarily support (or remove, protect and re-erect) the utilities during construction. The cost of this work shall be included in the pay item for "Removal of Existing Superstructures".

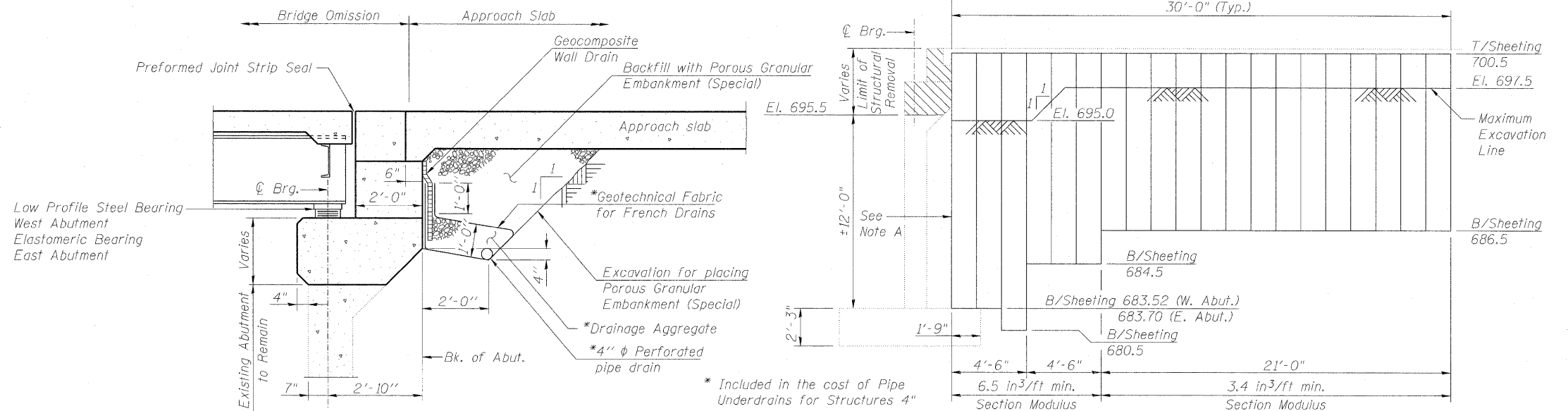
Portions of the wingwalls are buried. The Contractor shall excavate and remove soil and clear vegetation as required to complete the repairs to the wingwalls. The areas that are impacted shall be restored and shall be sodded with a Salt Tolerant Sod according to the Section 252 of the Standard Specifications. This work shall be included in the pay item "Bridge Fence Railing (Special)".

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.	0	88	88
Removal of Existing Superstructures	Each	1	0	1
Concrete Removal	Cu. Yd.	0	64.4	64.4
Structure Excavation	Cu. Yd.	0	98	98
Concrete Structures	Cu. Yd.	0	134.3	134.3
Concrete Superstructure	Cu. Yd.	394.8	0	394.8
Bridge Deck Grooving	Sq. Yd.	918	0	918
Protective Coat	Sq. Yd.	1,101	0	1,101
Furnishing and Erecting Structural Steel	L. Sum	1	0	1
Stud Shear Connectors	Each	3,672	0	3,672
Reinforcement Bars, Epoxy Coated	Pound	90,020	15,760	105,780
Bar Splicers	Each	355	300	655
Bicycle Railing	Foot	120	0	120
Parapet Railing	Foot	120	0	120
Temporary Sheet Piling	Sq. Ft.	0	894	894
Name Plates	Each	1	0	1
Preformed Joint Strip Seal	Foot	178	0	178
Elastomeric Bearing Assembly, Type I	Each	0	12	12
Anchor Bolts, 5/8"	Each	0	24	24
Anchor Bolts, 3/4"	Each	0	24	24
Concrete Sealer	Sq. Ft.	0	930	930
Epoxy Crack Injection	Foot	0	15	15
Geocomposite Wall Drain	Sq. Yd.	0	78	78
Pipe Underdrains for Structures 4"	Foot	0	185	185
Structural Repair of Concrete (depth greater than 5 inches)	Sq. Ft.	0	128	128
Structural Repair of Concrete (depth equal to or less than 5 inches)	Sq. Ft.	0	34	34
Bridge Fence Railing (Special)	Sq. Ft.	0	364	364
Asbestos Bearing Pad Removal	Each	58	0	58

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SECTION THRU ABUTMENTS

(Horiz. dim. ϕ Rt. L's)
Excavation is paid for as
Structure Excavation

Note A:
The contractor shall connect the temporary sheet piling to the existing abutment to ensure stability of sheets driven to the top of the existing footing. This connection and details to close off the area between the first sheet and the abutment stem shall be reviewed and approved by the engineer and all cost shall be included under Temporary Sheet Piling pay item.

All drainage system components shall extend the full length of the abutments except an outlet pipe shall extend until intersecting with the wingwalls. The wingwalls shall be cored to accept the outlet pipe. The outlet pipe shall not be located closer than 2'-0" to the top of the wingwall. This work shall be included in the pay item for Pipe Underdrains for Structures 4".

TEMPORARY SHEET PILING

(EAST AND WEST ABUTMENT)

Information shown is estimated.

GENERAL DATA

STRUCTURE NO. 016-0581

DESIGNED MAH
CHECKED JMH
DRAWN DR
CHECKED JMH

COLLINS ENGINEERS
123 N. WACKER DR., SUITE 300
CHICAGO, IL 60606
(312) 704-9300
ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993

SHEET NO. S2 OF S27 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	339	116-Y-2-BR-1	COOK	74	24
			CONTRACT NO. 60J00		
ILLINOIS FED. AID PROJECT					