

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	(48-26HB-4)I	KNOX	54	26
FED. ROAD DIST. NO.		ILLINOIS PROJECT	CONTRACT 88919	

GENERAL NOTES

Fasteners shall be high strength bolts. Bolts 7/8"φ, open holes 15/16"φ, unless otherwise noted.

Calculated weight of Structural Steel = 866,660 Lbs. (M270, Gr. 50)

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

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 wide flange beams and all splice plate material except fill plates.

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

Slope wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

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.

See roadway plans for Paved Ditch Removal and Paved Ditch, Special quantities.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/2" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. For Type I Elastomeric Bearings, shims of the dimensions of the top plate shall be provided and placed as detailed.

The existing structural steel coating contains lead. The Contractor should take appropriate precautions to deal with the presence of lead on this project.

Reinforcement bars designated (E) shall be epoxy coated.

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 interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Blue, Munsell No. 10B3/6. See Special Provision for Cleaning and Painting New Metal Structures.

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans for lesser design requirements, then full design submittals with the required seals will be expected by the Department, for review and approval.

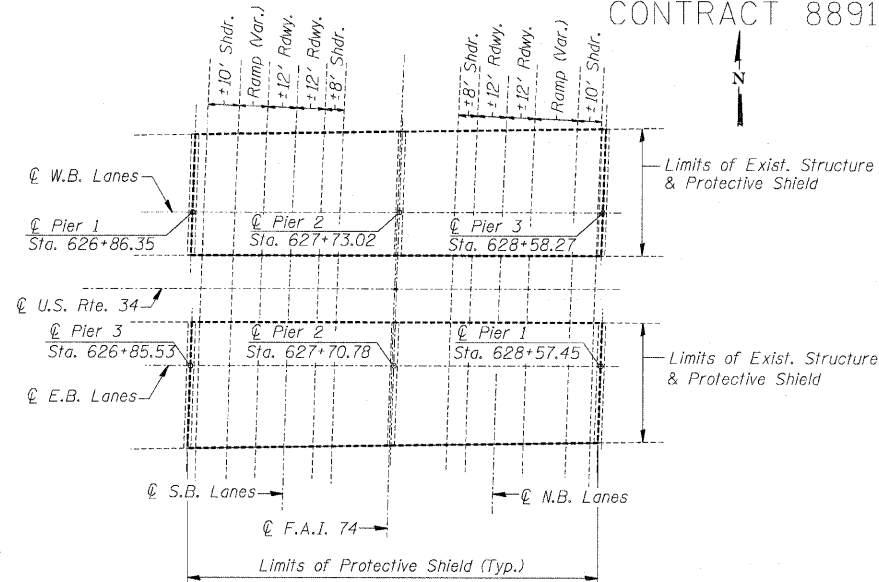
The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

Signs mounted to side of existing structures shall be removed, salvaged, and re-mounted on new structure. Cost included in Removal of Existing Superstructures.

The structural steel bearing plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.

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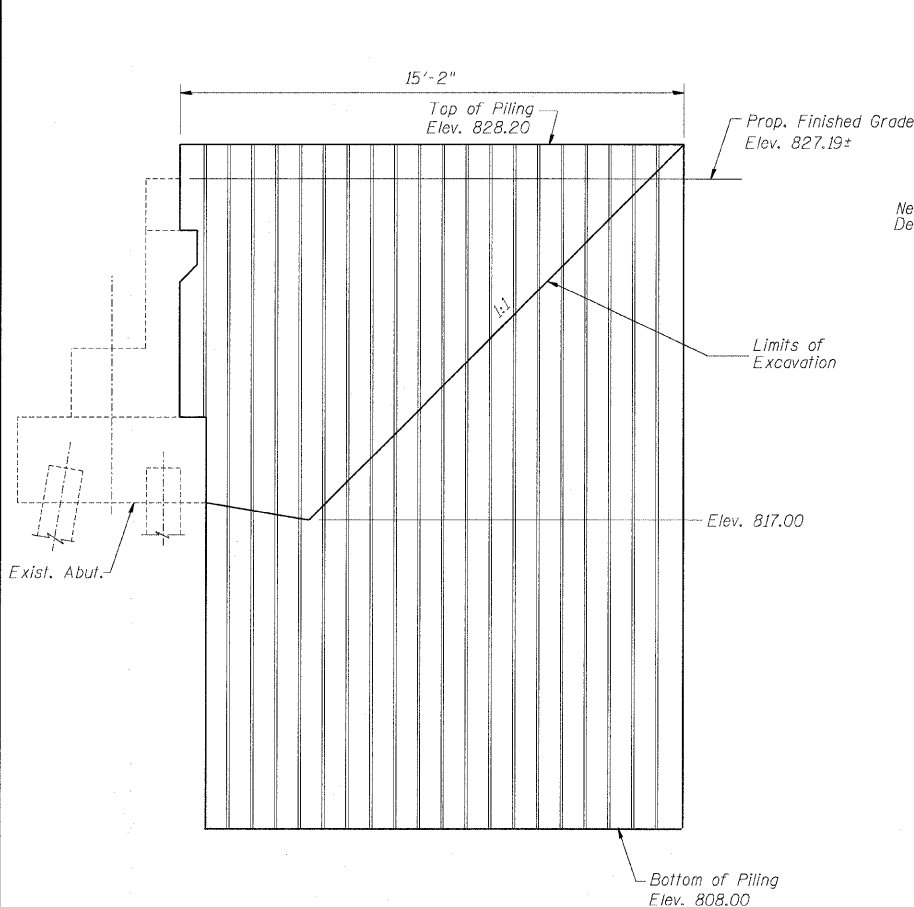


PROTECTIVE SHIELD DETAIL

TOTAL BILL OF MATERIAL

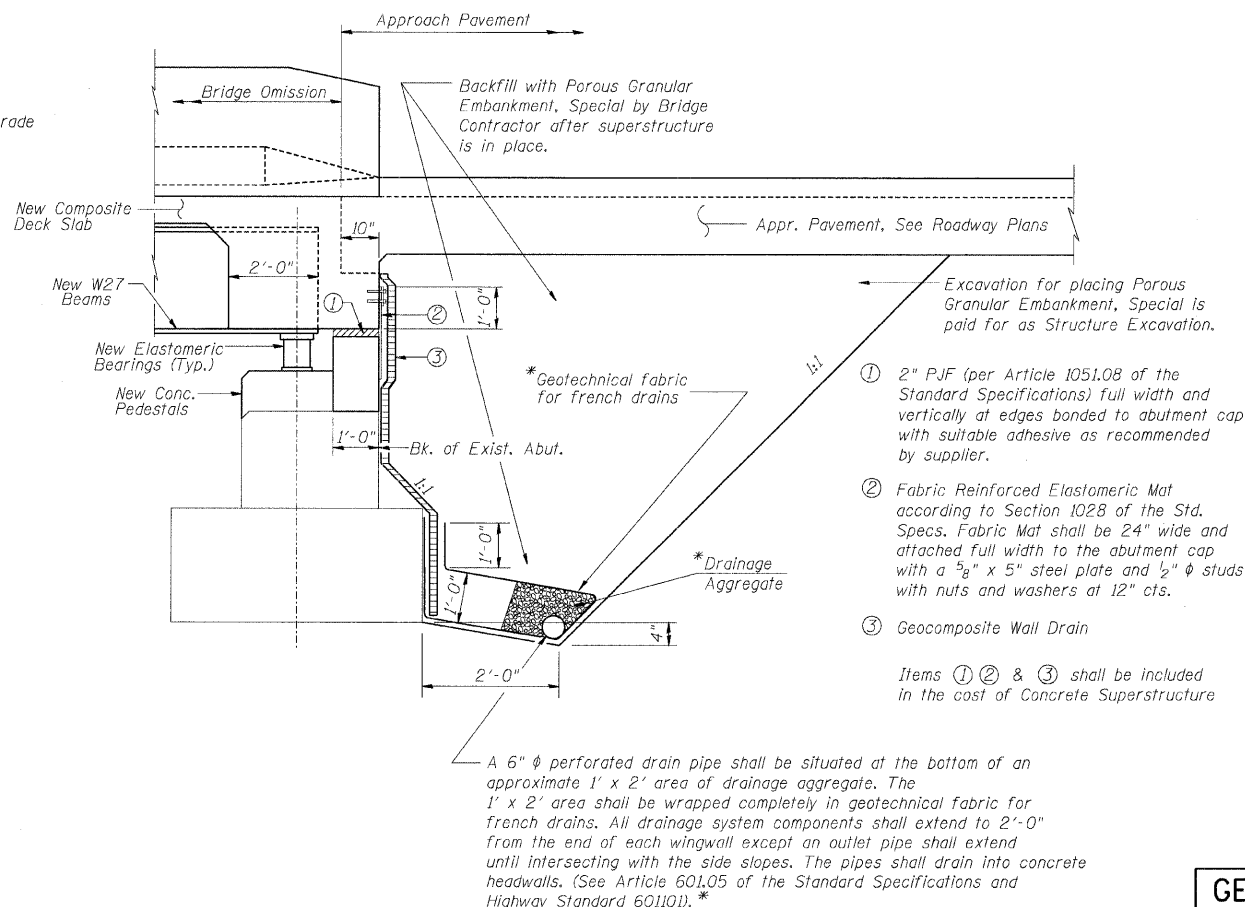
ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.		708	708
Removal of Existing Superstructures	Each	2		2
Concrete Removal	Cu. Yd.		68.0	68.0
Slope Wall Removal	Sq. Yd.	1367		1367
Structure Excavation	Cu. Yd.		708	708
Floor Drains	Each	24		24
Concrete Structures	Cu. Yd.		63.0	63.0
Concrete Superstructure	Cu. Yd.	843.2		843.2
Bridge Deck Grooving	Sq. Yd.	2876		2876
Protective Coat	Sq. Yd.	3308		3308
Elastomeric Bearing Assembly, Type I	Each	32		32
Elastomeric Bearing Assembly, Type II	Each	32		32
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	9216		9216
Reinforcement Bars, Epoxy Coated	Pound	175,080	10,690	185,770
Slopewall 4"	Sq. Yd.		1466	1466
Temporary Sheet Piling	Sq. Ft.		1226	1226
Name Plates	Each		2	2
Bar Splicers	Each	1848	16	1864
Protective Shield	Sq. Yd.		1968	1968
Pipe Underdrain for Structures, 6"	Foot		250	250

*Quantity is for top and inside face of parapets, and the deck.



TEMPORARY SHEET PILING DETAIL
ELEVATION VIEW

(Minimum section modulus 8.2 in.³/ft.)



SECTION THRU SEMI-INTEGRAL ABUTMENTS

(Abutment Drainage Detail)

* Included in the cost of Pipe Underdrains for Structures.

GENERAL NOTES, TOTAL BILL OF MATERIAL & DETAILS

Date	Designed ACW	U.S. ROUTE 34 OVER F.A.I. ROUTE 74 F.A.I. RTE. 74 SECTION (48-26HB-4)I KNOX COUNTY STA. 212+20.71 STRUCTURES NO. 048-0019 (WB) & 048-0020 (EB)	Sheet No.
Revisions	Drawn SRS		2
	Checked KWB		of 30
	Approved KWB		
Prepared by: WVP CORPORATION A Division of URS Greiner Woodward Clyde		Engineers - Architects - Planners Decatur, Illinois - St. Louis, Missouri	WVP Job No. 2100001161.04