

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 789	54BR-1	MADISON	62	26
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 2
25 SHEETS

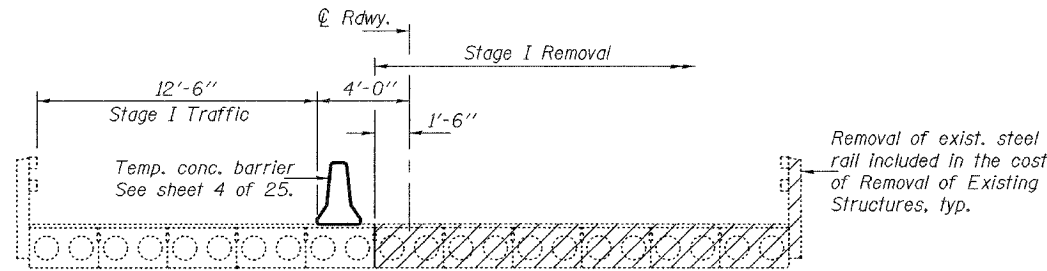
Contract #76864

GENERAL NOTES

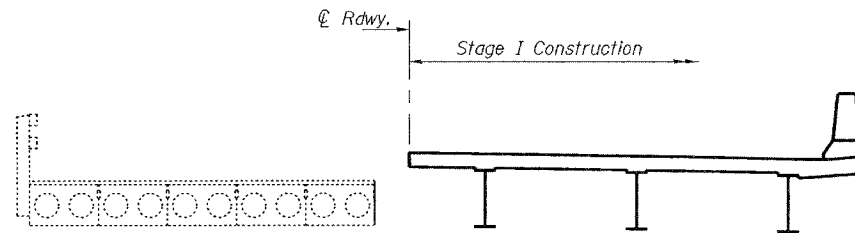
Fasteners shall be AASHTO M164 Type 3 bolts. Bolts $7/8'' \phi$, open holes $15/16'' \phi$, unless otherwise noted.
 Calculated weight of Structural Steel = 405220 lbs.
 All structural steel shall be AASHTO M 270 Grade 50W.
 No field welding is permitted except as specified in contract documents.
 Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions
 Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
 The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
 Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $1/8$ in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
 The Contractor shall drive test piles to 110% of the nominal required bearing specified in permanent locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
 In addition to all other requirements of section 512 of the Standard Specifications, splices for HP12x74 and HP10x57 piles shall develop the full capacity of the steel's cross sectional area of the pile for tension, shear and bending forces. One approved method of achieving this requirement is full penetration butt welding of the entire cross section. Other types of splices meeting the full capacity requirement may be allowed subject to the approval of the Engineer. Any proposal by the Contractor to use an alternate splice method must include adequate documentation demonstrating that the full tension, shear and bending capacities will be met. Appropriate welder qualifications will be required for the positions and processes used in splicing all piles. Nondestructive testing of completed welds will be limited to visual inspection.
 Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in the special provision for "Surface Preparation and Painting Requirements for Weathering Steel".
 Reinforcement bars designated (E) shall be epoxy coated.
 All construction joints shall be bonded.

TOTAL BILL OF MATERIAL

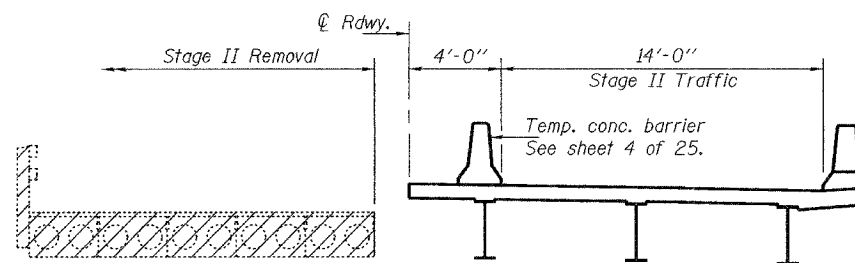
ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		136	136
Stone Riprap, Class A5	Sq. Yd.		3668	3668
Filter Fabric	Sq. Yd.		3668	3668
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		477	477
Driving Piles	Foot		1182	1182
Floor Drains	Each	46		46
Concrete Structures	Cu. Yd.		226.0	226.0
Concrete Superstructure	Cu. Yd.	474.9		474.9
Bridge Deck Grooving	Sq. Yd.	1466		1466
Protective Coat	Sq. Yd.	1876		1876
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	5976		5976
Reinforcement Bars, Epoxy Coated	Pound	116170	23890	140060
Furnishing Steel Piles HP12x74	Foot		634	634
Furnishing Steel Piles HP10x57	Foot		962	962
Test Pile Steel HP12x74	Each		1	1
Test Pile Steel HP10x57	Each		3	3
Temporary Sheet Piling	Sq. Ft.		328	328
Temporary Soil Retention System	Sq. Ft.		648	648
Name Plates	Each	1		1
Bar Splicers	Each	1175	167	1342
Underwater Structure Excavation Protection Location 1	Each		1	1
Underwater Structure Excavation Protection Location 2	Each		1	1
Composite Bridge Approach Pavement	Sq. Yd.	249		249
Pipe Underdrains for Structures, 4"	Foot		154	154
Geocomposite Wall Drain	Sq. Yd.		75	75
Setting Piles in Rock	Each		12	12
Concrete Encasement	Cu. Yd.		13.9	13.9
Anchor Bolts 1"	Each		72	72
Asbestos Bearing Pad Removal	Each		88	88



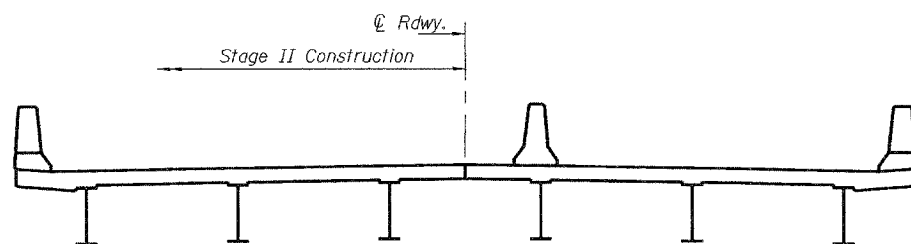
STAGE I REMOVAL



STAGE I CONSTRUCTION

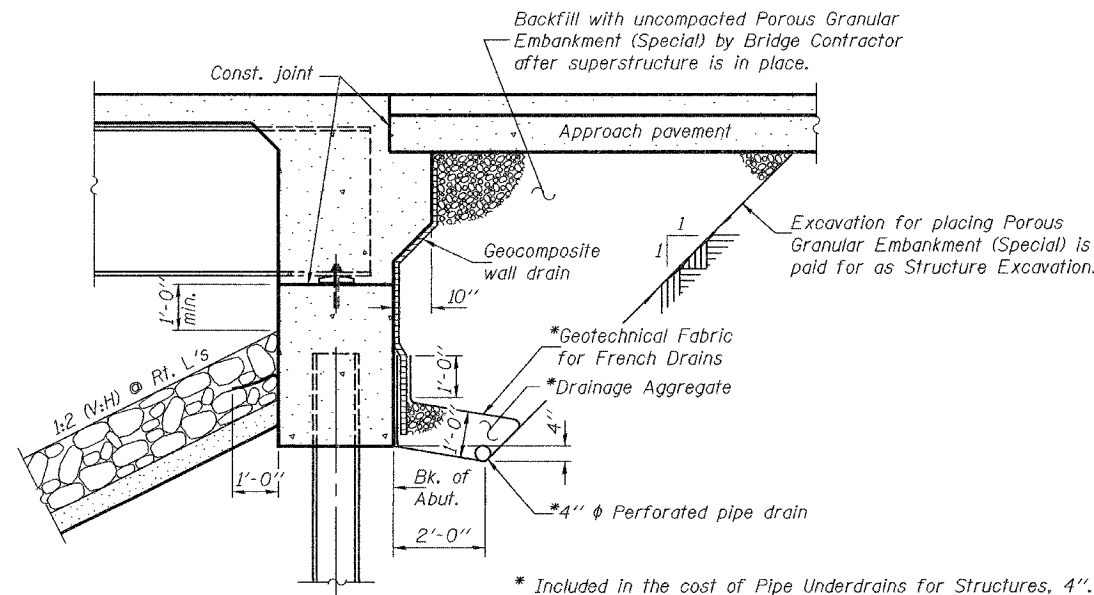


STAGE II REMOVAL



STAGE II CONSTRUCTION

Notes: Hatched areas indicate removal of existing structures.
 For quantity of temporary concrete barrier, see roadway plans.
 All cross sections are looking east.



SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)

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).

DESIGNED	Curt M. Evoy
CHECKED	Nick R. Barnett
DRAWN	h.t. duong
CHECKED	CME/NRB

EXAMINED	Thomas J. Damagala ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

**GENERAL DATA &
 STAGE CONSTRUCTION DETAILS
 F.A.P. RTE. 789 - SEC. 54BR-1
 MADISON COUNTY
 STATION 280+73
 STRUCTURE NO. 060-0340**