

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
F.A.P. 322	*	UNION	39	19	22 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		
* (11-IVB)-1 CONTRACT NO. 98488					

GENERAL NOTES

Fasteners shall be high strength bolts. Bolts $\frac{7}{8}$ " ϕ , open holes $\frac{15}{16}$ " ϕ , unless otherwise noted.

Calculated weight of Structural Steel = 441,960 pound. (AASHTO M270, Grade 50)
Calculated weight of Structural Steel = 4150 pound. (AASHTO M270, Grade 36)

Field welding of construction accessories will not be permitted to beams or girders.

Anchor bolts shall be set before bolting diaphragms over supports.

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 AASHTO M 31 or M 322 Grade 60.

All construction joints shall be bonded.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

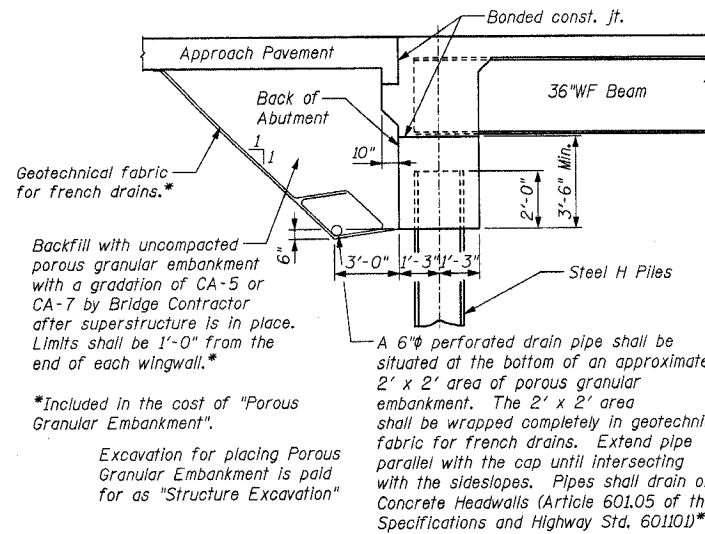
Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two $\frac{1}{8}$ " adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

The contractor shall drive two (2) test piles in a permanent location, one (1) at each abutment as directed by the Engineer before ordering the remainder of piles.

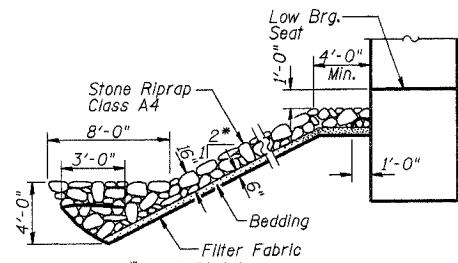
In addition to all other requirements of section 512 of the Standard Specifications, splices for Steel H-piles shall develop the full capacity of the steel's cross sectional area of the pile for tension, shear and bending forces. One approved method of achieving this requirement is full penetration butt 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.

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

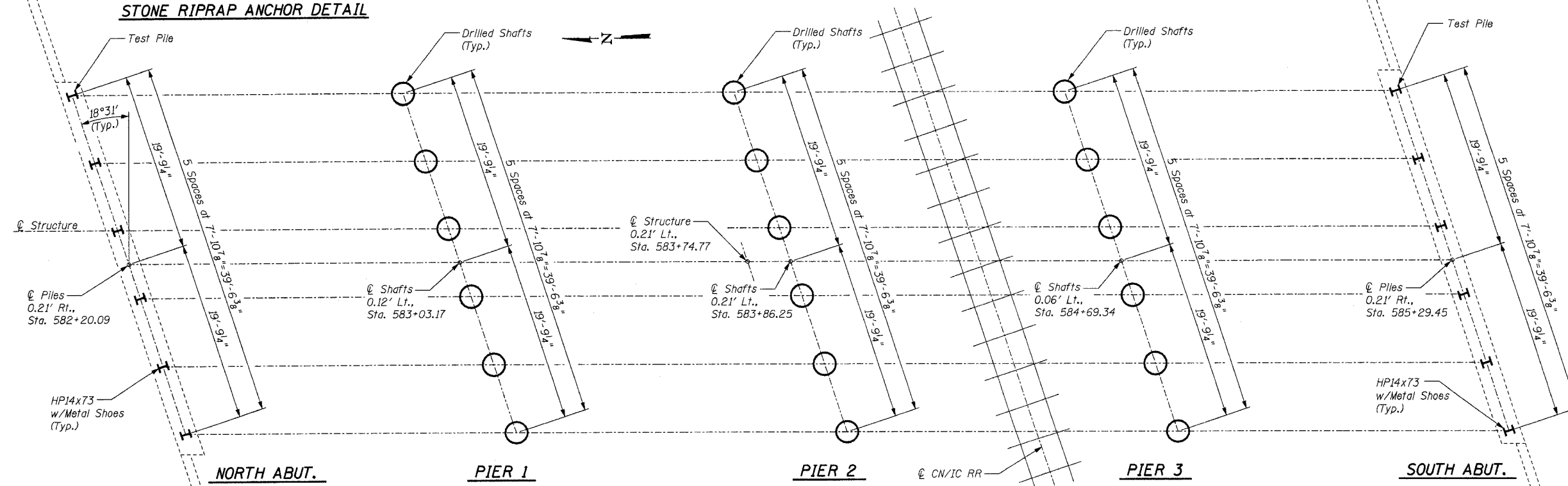
The Inorganic zinc rich primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No. 7.5G 4/8. See special provision for "Cleaning and Painting New Metal Structures."



SECTION THRU INTEGRAL ABUTMENT
(Dimensions at right angles)



STONE RIPRAP ANCHOR DETAIL



FOUNDATION PLAN
(Not to scale)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Cu. Yd.	-	286	286
Stone Riprap, Class A4	Sq. Yd.	-	2352	2352
Filter Fabric for use with Riprap	Sq. Yd.	-	2352	2352
Removal of Existing Structures	Each	-	-	1
Structure Excavation	Cu. Yd.	-	275	275
Concrete Structures	Cu. Yd.	-	299.6	299.6
Concrete Superstructure	Cu. Yd.	409.2	-	409.2
Bridge Deck Grooving	Sq. Yd.	1404	-	1404
Protective Coat	Sq. Yd.	1666	-	1666
Furnishing and Erecting Structural Steel	L. Sum	1	-	1
Stud Shear Connectors	Each	5094	-	5094
Reinforcement Bars	Pound	-	19030	19030
Reinforcement Bars, Epoxy Coated	Pound	105070	88470	193540
Furnishing Steel Piles, HP14x73	Foot	-	265	265
Driving Steel Piles	Foot	-	265	265
Test Pile Steel, HP14x73	Each	-	2	2
Metal Shoes	Each	-	10	10
Temporary Sheet Piling	Sq. Ft.	-	552	552
Temporary Bridge Rail	Foot	302	-	302
Name Plates	Each	1	-	1
Underwater Structure Excavation Protection - Location 1	Each	-	1	1
Underwater Structure Excavation Protection - Location 2	Each	-	1	1
Bar Splacers	Each	1161	398	1459
Drilled Shaft in Soil 36 Dia	Foot	-	157	157
Drilled Shaft in Rock 30 Dia	Foot	-	126	126
Protective Shield	Sq. Yd.	-	220	220

GENERAL DATA
U.S. ROUTE 51 OVER TRIBUTARY TO
DRURY CREEK AND CN/IC RAILROAD
FAP 322 - SECTION (11-IVB)-1
UNION COUNTY
STATION 583+74.84
STRUCTURE NO. 091-0073

04/27/2005

DESIGNED	GLH
CHECKED	TML
DRAWN	RJN
CHECKED	TML