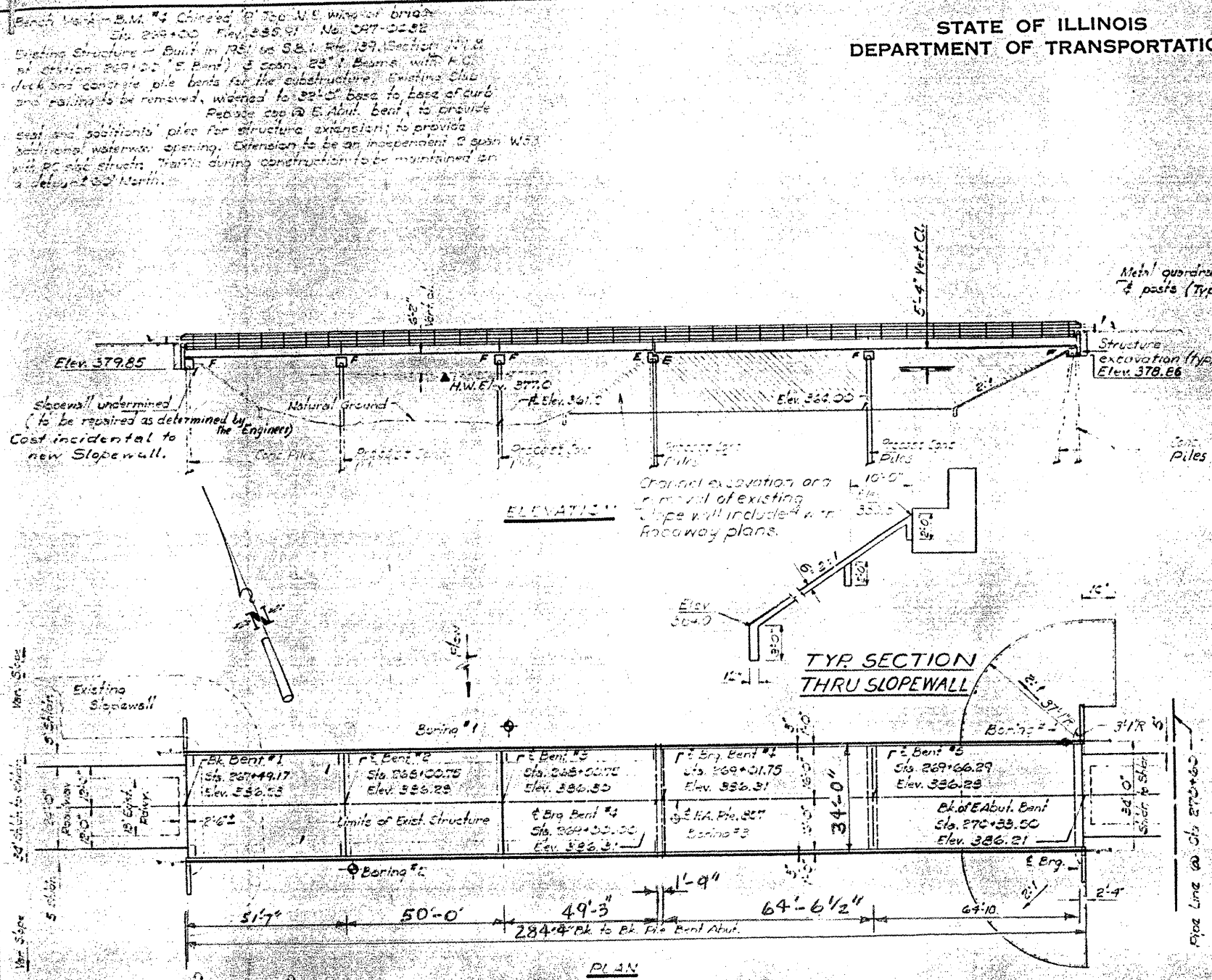


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VARIOUS ROUTES
D9 BRIDGE PAINTING FY 09-1
VARIOUS COUNTIES
CONTRACT 78093
FOR INFORMATION ONLY
SHEET 25 OF 31

GENERAL

See Proposal for Boring Data
Fasteners shall be high strength bolts. Bolts
Calculated weight of Structural Steel M-163-172870lbs.
The basic lead silico chromate paint system shall be used for shop and field painting of new Structural Steel.
Field welding of construction accessories will not be permitted to the bottom flange of beams nor to the top flange, in spans 4 & 5, for a distance equal to one-fourth each way from pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
Anchor bolts shall be set before bolting diaphragms over support.
Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.
The Contractor shall drive one (1) Precast concrete test pile in a permanent location at Bent #4 and one (1) concrete test pile in a permanent location at the East Abutment bent, as directed by the Engineer, before ordering the remainder of piles.
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.
Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/4 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1" adjusting shims of the dimensions of the bottom bearing plate for Type II bearing, and top bearing plate for Type I bearings, shall be provided for each bearing in addition to all other plates or shims.
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 tension flanges, webs and all splice plate material of the wide flange beams.
Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.
Slope wall shall be reinforced with welded wire fabric 6" W40xW40, weighing 55# per 100 sq. ft.
Expansion bolts shall consist of approved expansion anchors, providing certified Min proof load = 4080 lbs, and 5/8" x 12" hooked bolts.
All existing Structural Steel shall be cleaned by Method I and painted with three coats of basic lead silico chromate paint system (Approximately 50 tons of existing structural steel to be painted).



TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Name Plates	Each			1
Slope Wall (6")	Sq. Yds		450	450
Preformed Joint Seal (2 1/2")	Lin. Ft.	68		68
Concrete Removal	Cu. Yds.		13	13
Expansion Bolts (3/4")	Each		57	57
Removal of Existing Concrete Deck	L.S.	1		1
Structure Excavation	Cu. Yds.		92	92
Floor Drains	Each	88		88
Protective Coat	Sq. Yds.	1107		1107
Class "X" Concrete	Cu. Yds.	247.2	62.7	309.9
Structural Steel	L.S.			1
Stud Shear Connectors	Each	2208		2208
Steel Rolling Type T-1	Lin. Ft.	569		569
Cleaning and Painting Steel Bridge	L.S.			1
Reinforcement Bars	Lbs	25230	5610	30840
Reinforcement Bars (Epoxy Coated)	Lbs	34010		34010
Precast Concrete Piles (14")	Lin. Ft.		821	821
Concrete Piles	Lin. Ft.		378	378
Test Pile Precast Concrete	Each		1	1
Test Pile Concrete	Each		1	1
Pav't. Removal & P.C.C. Repl. Type II (10")	Sq. Yds	10		10
Jacking and Cribbing	L.S.	1		1
Neoprene Expansion Joint (4")	Lin. Ft.	34		34
Elastomeric bearing, Assembly, Type I	Each		7	7
Elastomeric bearing, Assembly, Type II	Each		8	8
Jack and Replace Bearings	Each		6	6
Web repair	Each		12	12
Remove and Replace Diaphragms	Each		9	9

WATERWAY INFORMATION

Drainage Area 30000 sq. ft. @ Sta.		Low Grade Elev. 386.0		@ Sta.	
Flood	Frq. Yr.	Opening Sq. Ft.	Net H.W.E.	Head - Ft.	Headwater El.
		Exist.	Prop.	Exist.	Prop.
Design	50	12182	3500	3200	377
Base	100	13950	3800	3478	378
Overlapping					
Max. Calc.	500	17680	4150	3895	379.5

DESIGN STRESSES (NEW CONSTR.)

f_c = 3500 psi
f_y = 60,000 psi Reinforcement
f_y = 36,000 psi Structural steel

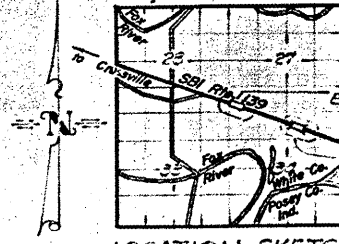
LOADING HS 20-44

Design Specifications: 1977 AASHTO 1979 & 1979 Interim Specifications.

NAME PLATE

Std. 2113
* Structure Number to be supplied by the District.

LOCATION SKETCH



GENERAL PLAN & ELEVATION

FA.Pc. 857 FOX RIVER OVERFLOW
FA.Pc. 857 (S.B. 159) SECTION 101 BR-2
WHITE COUNTY
STA. 268+25.75

BRIDGE NO. 4

DESIGNED	PLD
CHECKED	JFP
DRAWN	JFP
CHECKED	JFP

EXAMINED	13 JAN 1981
PASSED	
APPROVED	