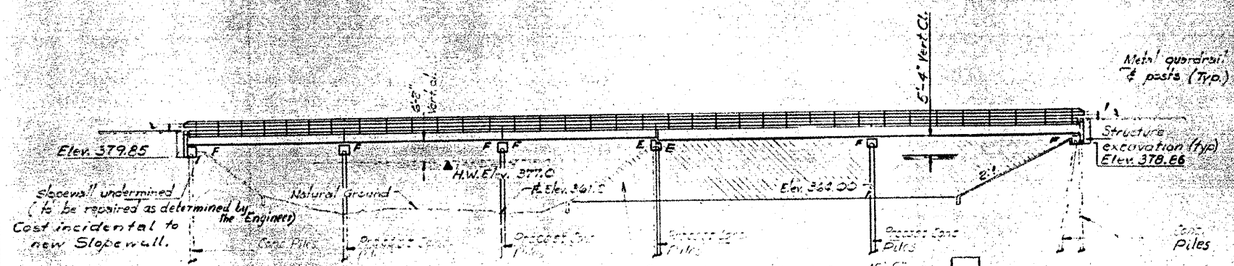
Bench Mark – B.M. "4 Chiseled 'B' Top N.E. wing of brid
Sta. 268+00 Elev. 385.91 No. CAT-00.32

Existing Structure – Built in 1951 on S.B.I. File 139, Section 101 B
at station 268+00 (5 Bent) 6 span, 28'-1" Beams with R.C.
deck and concrete pile bents for the substructure. Existing curb
and railing to be removed, widened to 32'-0" base to base of curb
and railing to be provided.

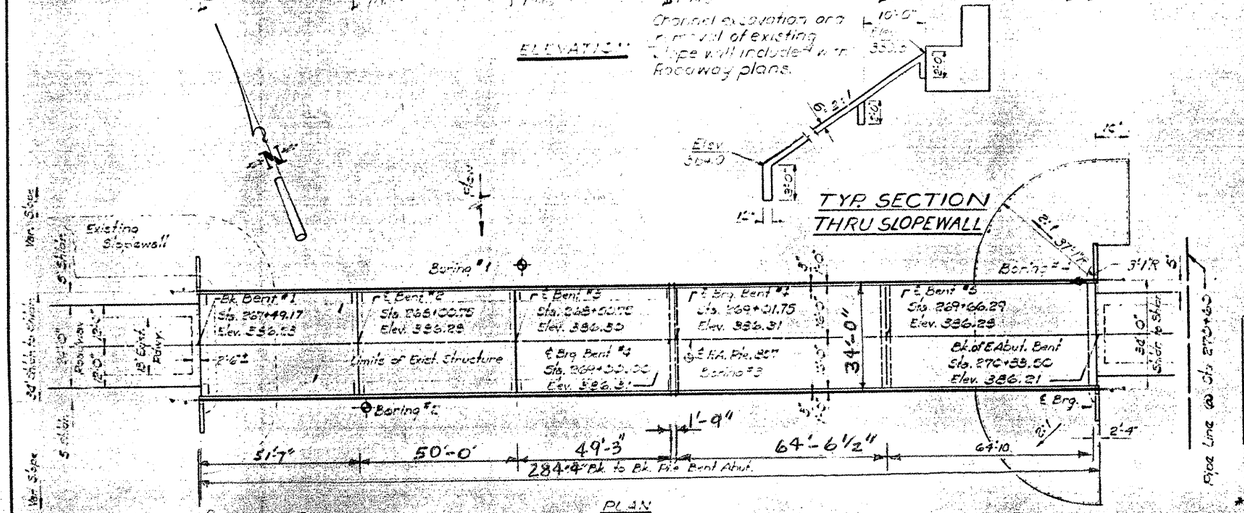
Provide cap @ E. Abut. bent, to provide
seat and additional piles for structure extension; to provide
additional waterway opening. Extension to be an independent 2 span W.S.I.
with RC slab structure. Traffic during construction to be maintained on
existing structure.

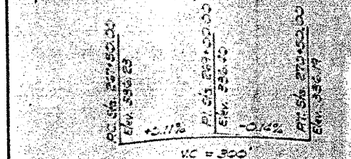
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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



Channel excavation and removal of existing slope will include entire roadway plans.





WATERWAY INFORMATION

Drainage Area 300005q. Miles Low Grade Elev. 386.0 @ Sta.

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head—Ft. Exist.	Head—Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	12182*	3500	3200	377				
Base	100	13,950*	3800	3478	378				
Overtopping									
Max. Calc.	500	17680*	4150	3895	379.5				

* Structures are within the Wabash River Flood plain, no estimation of Created head was made for these structures.

DESIGNED
CHECKED PLD
DRAWN JFP
CHECKED

EXAMINED JANUARY 13 1981
PASSED
APPROVED

DESIGN STRESSES (NEW CONSTR.)
f'c = 3500 psi
fy = 60,000 psi Reinforcement
fy = 36,000 psi Structural Steel

LOADING HS 20-44
Design Specifications: 1977 AASHTO
1979 & 1979 Interim Specifications.

GENERAL N

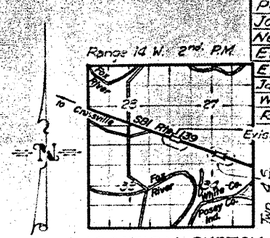
See Proposal for Boring Data.
Fasteners shall be high strength bolts. Bolts s ed
Calculated weight of Structural Steel M-165 = 172670 Lbs.
The basic lead silico chromate paint system shall be used for shop and field painting of new Structural Steel.
Field welding of construction accessories will not 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 ⅛ inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two ⅛" 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"x6" W4.0 x W4.0, weighing 58 # per 100 sq. ft.
Expansion bolts shall consist of approved expansion anchors, providing certified Min. proof load = 4,080 lbs., and ¾"ø x 12" hooked bolts.
All existing Structural Steel shall be cleaned by Method 1 and painted with three coats of basic lead silico chromate paint system (Approximately 50 tons of existing structural steel to be painted).

STATION 268+25.75
REBUILT 198 BY
STATE OF ILLINOIS
F.A.R.T.E. 857 SEC. 101-BR 2
F.A. PROJECT
LOADING HS 20
*STRUCT. # 097-0032

NAME PLATE
Std. 2113
* Structure Number to be Supplied by the District.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Name Plates	Each			1
Slope Wall (6")	Sq. Yds		450	450
Preformed Joint Seal (3½")	Lin. Ft.	68		68
Concrete Removal	Cu. Yds.		13	13
Expansion Bolts (¾"ø)	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 Railing 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		376	376
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.Sum	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



GENERAL PLAN & ELEVATION
F.A. Rte. 557 FOX RIVER OVERFLOW
F.A. Rte. 557 (S.B.I. 139) SECTION 101 BR-2
WHITE COUNTY
STA. 268+25.75

BRIDGE NO. 4

Updated 3-26-82 D.A.B. 4-12-82 D.A.E 5-21-82 D.A.B