

BM: #11 Elev. 335.72 Boal Spike  
in roof of 26" Oak Pile 21' W. of  
Station 14104.

This portion of embankment  
backfill by Bridge Contractor  
after abutment is in place

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

VARIOUS ROUTES  
VARIOUS COUNTIES  
D-9 BRIDGE PAINTING FY 06-1  
SHEET 27 OF 48  
CONTRACT 98941

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

Field connections shall be bolted using high strength bolts. Bolts  $\frac{3}{4}$ "  $\phi$ , open holes  $\frac{1}{8}$ " unless otherwise noted.

The Basic Lead Silico Chromate paint system shall be used for shop and field painting of structural steel.

Field welding of construction accessories will not be permitted to the bottom flange of beams nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.

Anchor bolts shall be set before pouring end blocks over supports. Slope wall shall be reinforced with welded wire fabric 2" x 6" mesh, weighing 58# per 100 sq. ft.

Concrete piles of abutments shall be driven in holes prepared through the embankment in accordance with Article 513.09(c) of the Standard Specifications.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

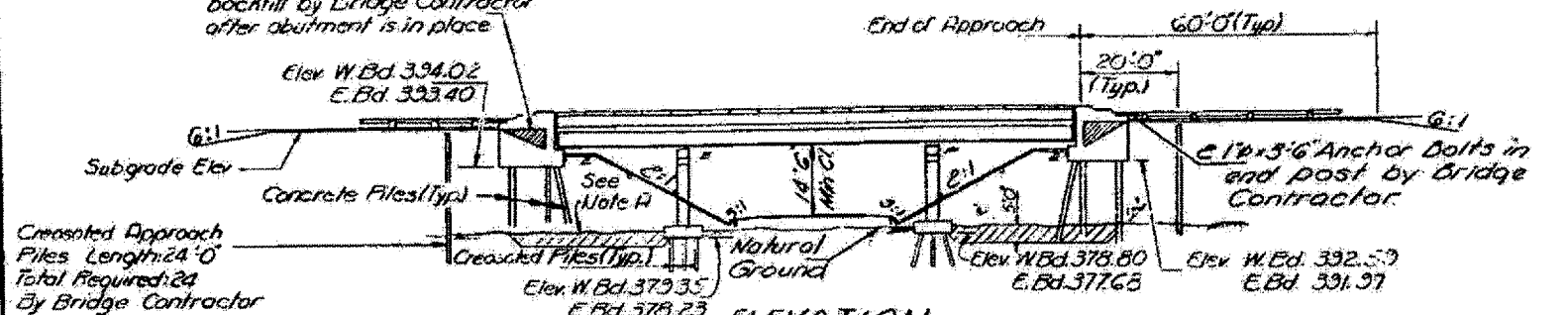
The contractor shall drive two Concrete Test Piles in a permanent location. One of the East Abut-East Bound Lanes; one of the West Abut-West Bound Lanes and two Timber Test Piles, one in the vicinity of Pier 1 of East Bound Lanes, one in the vicinity of Pier 2 of West Bound Lanes as directed by the Engineer before ordering the remainder of piles.

The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

TOTAL BILL OF MATERIAL

Item	Units	Super	Sub.	Total
Class A Excavation for Structures	Cu. Yds.			70
Class X Concrete	Cu. Yds.	318.4	418.1	736.5
Structural Steel	Lt. Sum			1
Reinforcement Bars	Lbs.	73,610	42,600	122,210
Concrete Piles	Lin. Ft.		1565	1565
Crested Piles (20.1 in. 38 in. H.L.)	Lin. Ft.		3067	3067
Aluminum Railing	Lin. Ft.	460		460
Preformed Joint Sealer	Lin. Ft.	189		189
Test Piles (Concrete)	Each		2	2
Test Piles (Timber)	Each		2	2
Slope Wall (4')	Sq. Yds.			1150
Protective Coat	Sq. Yds.			1280
Name Plates	Each			2
Earth Excavation	Cu. Yds.			2750

\* CALCULATED WEIGHT OF STRUCTURAL STEEL = 190,340 LBS.

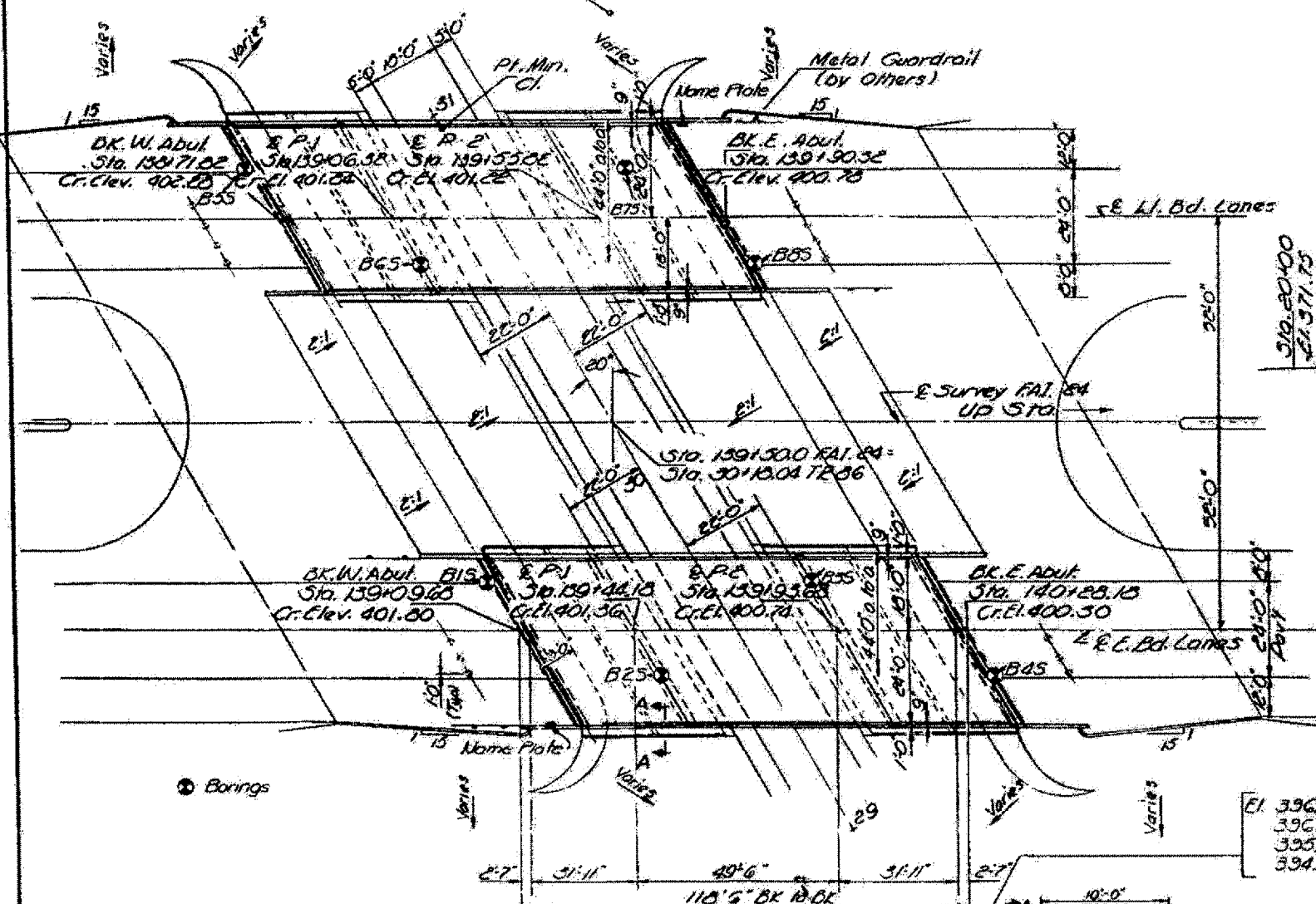


ELEVATION

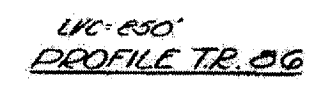
Note A:  
Existing earth under abutment embankments shall be removed by the contractor before embankment cones are placed. For limits of removal see sheet 2.

STATION 139+50  
BUILT BY  
STATE OF ILLINOIS  
FD. I RT 24 SEC. 6A-2HB2  
FD. PROJ. I-24-1(55)  
LOADING HS 20+44 ALT.

NAME PLATE  
(See Std. 2113-1)



PLAN

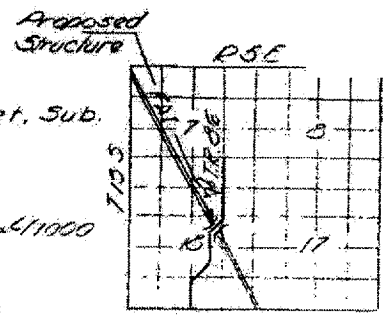


El. 396.39 W. Abut. W. Bd. Lanes  
396.36 W. Abut. E. Bd. Lanes  
395.56 E. Abut. W. Bd. Lanes  
394.93 E. Abut. E. Bd. Lanes

DESIGN STRESSES

- $f_c = 1200$  psi Deck Slab
- $f_c = 1400$  psi Curb, Parapet, Sub.
- $f_s = 20,000$  psi Reinf.
- $f_s = 20,000$  psi Struct.
- $v_c = 75$  psi Ftgs.
- $n = 10$
- Allowable  $\delta$  Deflection  $\leq 1/1000$

LOADING  
HS 20-44 ALT.

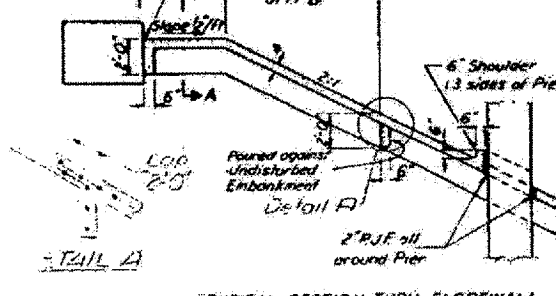
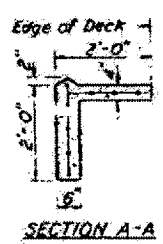


BRIDGES NO. 6 AND NO. 7  
STRUCTURES 064-0025 064-0026  
FOR INFORMATION ONLY

FD. PROJ. I-24-1(55)22  
GENERAL PLAN & ELEVATION  
FAI RT 24 OVER TR. RT. 06  
FAI RT 24 SEC. 6A-2HB2  
MASSAC COUNTY  
STATION 139+50

DESIGNED	Rac. G. k
CHECKED	JTD
DRAWN	
CHECKED	

EXAMINED  
PASSED  
APPROVED



TYPICAL SECTION THRU SLOPEWALL