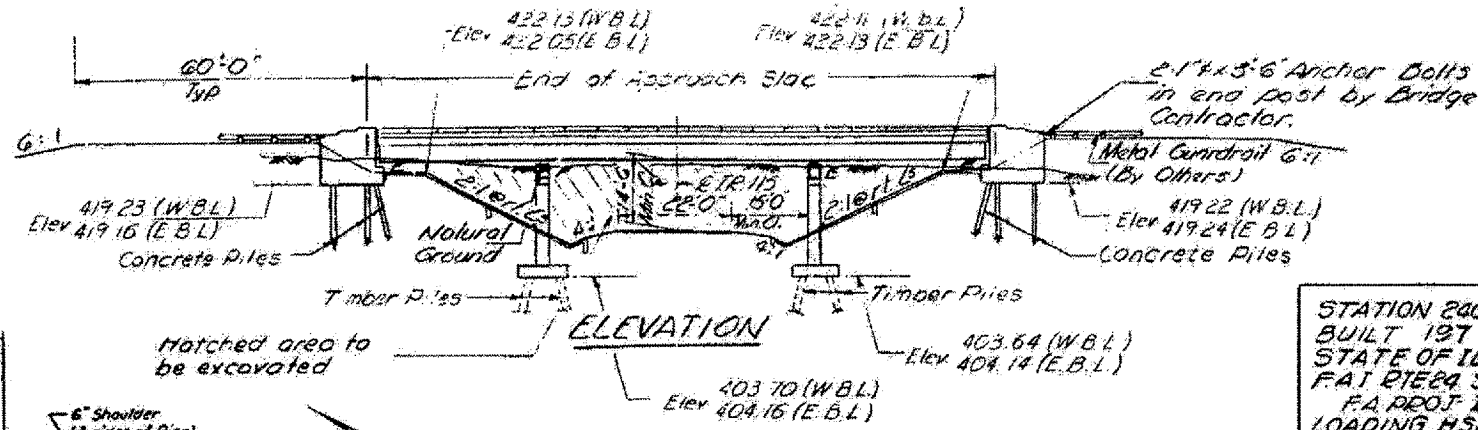


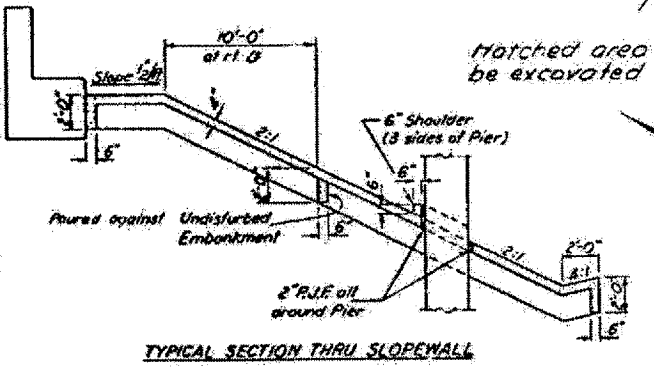
B.M. 18-Elev. 484.46 Boat Sailing
Sassafos 225' R.I. of Sta 244+20

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

VARIOUS ROUTES
VARIOUS COUNTIES
D-9 BRIDGE PAINTING FY 06-1
SHEET 30 OF 48
CONTRACT 98941



STATION 240+78.40
BUILT 197 BY
STATE OF ILLINOIS
F.A.I. PROJ. SEC. 64-34B
F.A. PROJ. I-24-1(48)
LOADING H.S.20 & ALT
NAME PLATE
See STD 2113



GENERAL NOTES

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

Field connections shall be bolted using high strength bolts. Bolts $\frac{3}{4}$ " open holes $\frac{1}{2}$ " unless otherwise noted.

Diaphragm connections may be adapted to shop welding subject to approval by the Engineer.

Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor on 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 bolting cross frames over supports. Slope wall shall be reinforced with welded wire fabric 6" x 6" mesh, weighing 58# per 100 sq. ft.

Class A Excavation for structures includes excavation for slope wall. 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 permanent locations, one at East Abutment of East Bound structure and one at West Abutment of the West Bound structure; he shall also drive one timber pile in the vicinity of Pier #1 of the East Bound structure and one timber pile in the vicinity of Pier #2 of the West Bound structure. This Basic Lead Silico Chromate Paint system shall be used for shop and field painting of Structural steel.

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 Normal Concrete.

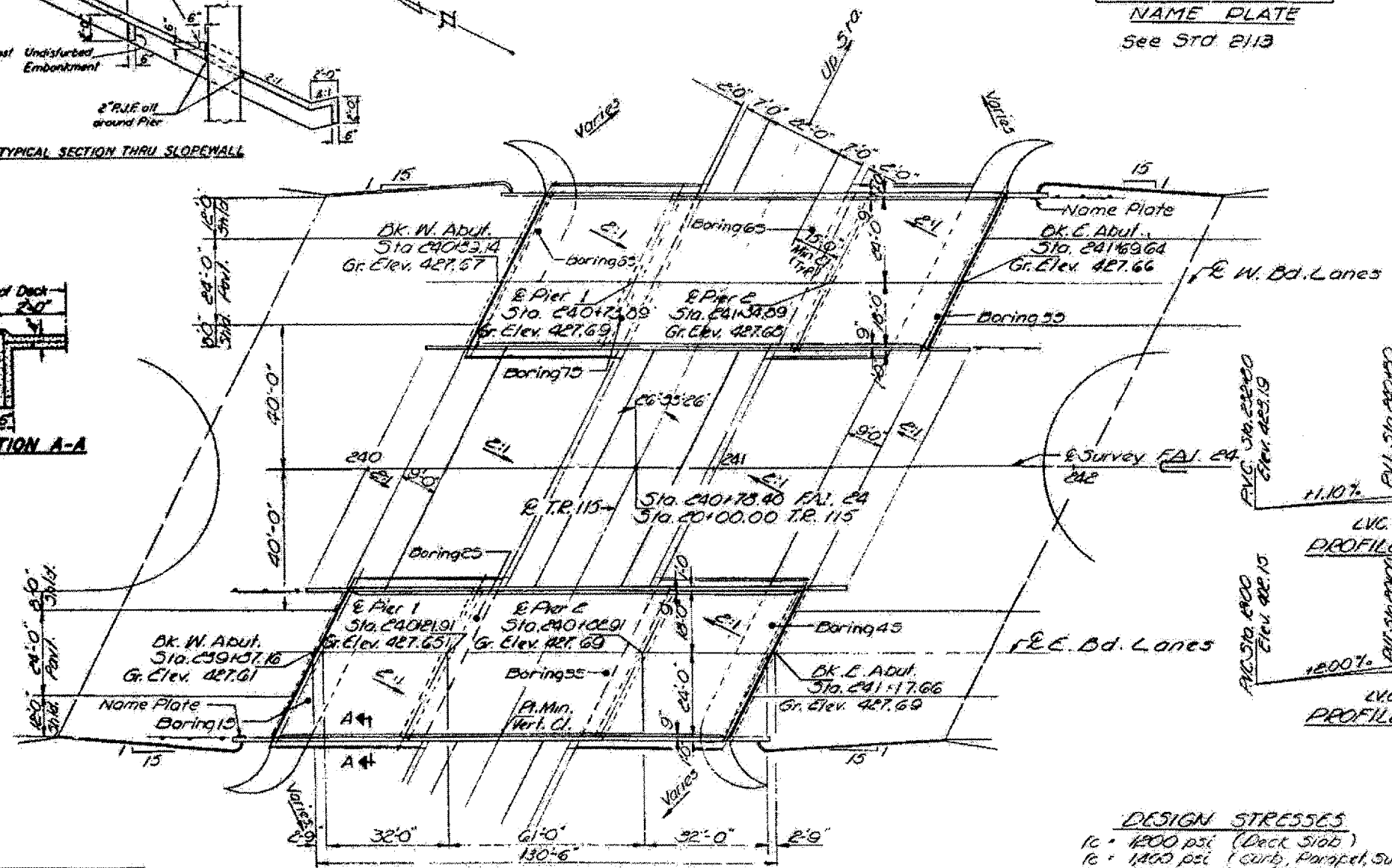
Calculated weight of Structural Steel = 219,460 lbs.

TOTAL BILL OF MATERIAL

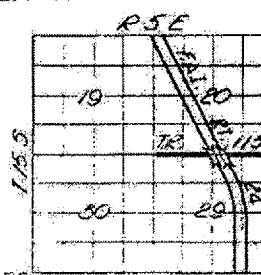
Item	Unit	Super	Sub	Total
Class A Excavation for Structures	Cu Yds.		845	845
Protective Coat	Sq Yds	1327	43	1370
Class X Concrete	Cu Yds	348.5	416.0	764.5
Furnishing & Erecting Structural Steel	L. Sum.	1		1
Stud Shear Connectors	Ea.	1548		1548
Aluminum Railing	Lin. Ft.	508		508
Reinforcement Bars	Lbs.	92530	48080	140610
Creosoted Piles (to 20')	Lin. Ft.		1320	1320
Concrete Piles	Lin. Ft.		1890	1890
Test Piles (Timber)	Each		2	2
Test Piles (Concrete)	Each		2	2
Name Plates	Each		2	2
Slope Walls (4')	Sq. Yds.		1030	1030
Creosoted Piles (20.1' to 38')	Lin. Ft.		616	616
Preformed Joint Sealer	Lin. Ft.		179	179

BRIDGES NO. 8 AND NO. 9
STRUCTURES 064-0027 064-0028
FOR INFORMATION ONLY

F.A. PROJ. I-24-1(48)34
GENERAL PLAN / ELEVATION
F.A.I. PROJ. SEC. 64-34B
MASSAC COUNTY
STATION 240+78.40



DESIGN STRESSES
 $f_c = 1800$ psi (Deck Slab)
 $f_c = 1800$ psi (Curb, Parapet, Sub)
 $f_s = 20000$ psi (Reinf.)
 $f_s = 20000$ psi (Struct)
 $V_c = 15$ psi (Fibs)
 $n = 10$



Allowable Excavation 4' 1800 Comp.
4' 1800 Non-Comp.
LOADINGS H.S. 20 & ALT.

DESIGNED James Hamilton
CHECKED A. Kernally
DRAWN F. Mercos
CHECKED OK

EXAMINED
PASSED
APPROVED

FEBRUARY 14 1969

PLAN