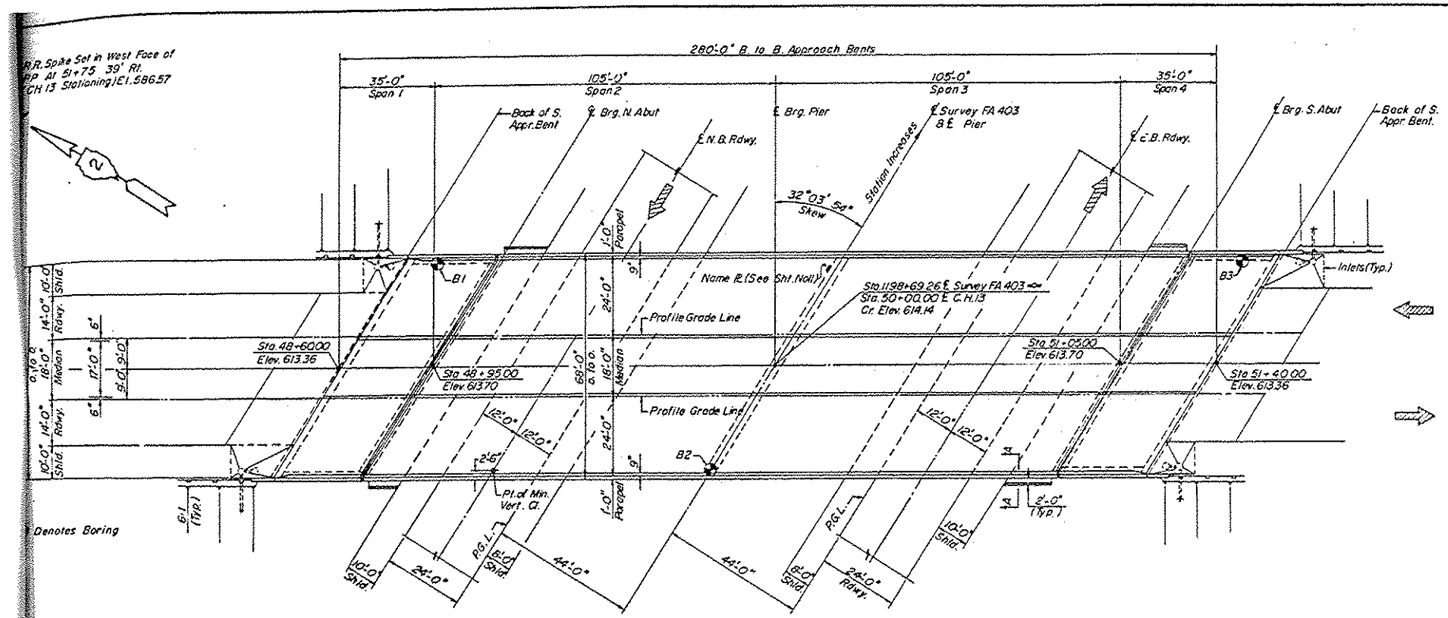
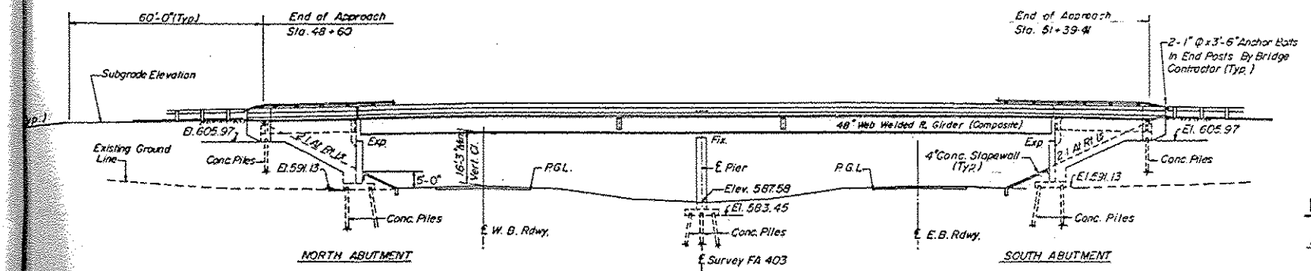
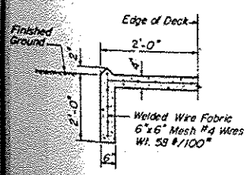
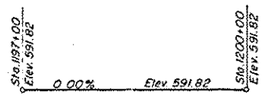
				SHEET NO. 1
F.A.I. 403	195-IHB-3	WHITESIDE	2.46	1.23	16 SHEETS
TOTAL SHEET NO.	ILLINOIS FED. AID PROJECT			

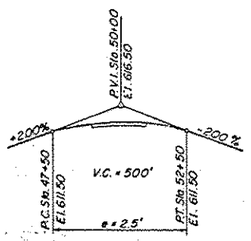








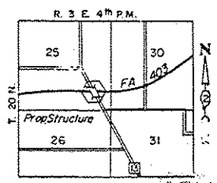
PROFILF FA 403 (Along Median Edges)



PROFILE CH 13 (Top Of Class I)

STATION 1198 + 69.26
BUILT 19 BY
STATE OF ILLINOIS
FA 403 SECTION 195-IHB-3
FA PROJECT
LOADING HS 20-44

NAME PLATE
SEE STD. 2113



LOCATION MAP

GENERAL NOTES:

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

Field connections shall be bolted using high strength bolts. Bolts $\frac{3}{4}$"Ø open holes $\frac{13}{16}$" Ø, unless otherwise noted.

The basic lead silico chromate paint system shall be used for shop & field painting of Structural Steel.

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

Anchor Bolts shall be set before bolting diaphragms over supports.

Slope Wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58 lb per 100 sq. ft.

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

The Contractor shall drive two test piles in a permanent location, one each at the North Abutment and at the Pier, as directed by the Engineer before ordering the remainder of the 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.

Protective Coat shall not be applied to surfaces to which Water Proofing Membrane System is applied.

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 $\frac{1}{8}$" adjusted shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to "other plates of shims.

The main load carrying member components subject to the Supplemental Requirements for Notch Toughness are the flanges, webs, and splice plates of the steel girders.

NOTES:

DESIGN LOADING:

HS 20-44 And Allowance For 25 P.S.F. Future Wearing Surface

DESIGN STRESSES:

- f_c = 1400 PSI - Except As Follows:
- f_c = 1200 PSI - For Deck Slab (Center Spans Only)
- f_c = 1000 PSI - For Concrete In Contact With Earth
- f_s = 20,000 PSI - M 183 Structural Steel
- f_s = 20,000 PSI - Reinforcement Steel
- v = 75 PSI - Allowable Shear In Footing
- n = 10
- Allowable Live Load Deflection = L/1200 (Composite)

DESIGN SPECIFICATIONS:

AASHO 1973 As Applicable

PRESTRESSED BEAMS

DESIGN STRESSES

- f'_s = 270,000 PSI - For Prestressing Strands
- f_s = 40,000 PSI - For Reinforcement Steel
- f'_c = 5,000 PSI - For Concrete

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER STRUCT.	SUB STRUCT.	TOTAL
Structure Excavation	Cu. Yds.	—	650	650
Bituminous Concrete Surface Course, Class I	Tons	121	—	121
Protective Coat	Sq. Yds.	2230	—	2230
Class X Concrete	Cu. Yds.	563.9	569.9	1233.8
Structural Steel	L. Sum	L.S.	—	L.S.
Aluminum Railing	Lin. Ft.	600	—	600
Concrete Piles	Lin. Ft.	—	7686	7686
Reinforcement Bars	Lbs.	157620	58,110	215,730
Water-Proofing Membrane System	Sq. Yds.	1471	—	1471
Preformed Joint Sealer (4")	Lin. Ft.	165	—	165
Test Pile Concrete	Each	—	2	2
Name Plates	Each	—	1	1
Slope Wall 4 Inch	Sq. Yds.	—	352	352
Stud Shear Connectors	Each	3672	—	3672
Precast Prestressed I Beams 36"	Lin. Ft.	—	510.33	510.33

* Calculated Weight of Structural Steel = 494,820#

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN & ELEVATION
FA 403 SECTION 195-IHB-3
CH ROUTE 13 OVER FA 403
WHITESIDE COUNTY
STATION 1198 + 69.26

FILE NAME =	USER NAME = dosedd	DESIGNED -	REVISED -
O:\BR\Dass\Whiteside\64J89 Cleaning & Painting SN 088-0057 & SN 089-0043\CA00\02	DRAWN -	REVISED -	
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = Fri Nov 08 08:07:42 2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	02 BRIDGE PAINTING 2014-2	WHITESIDE	9	9A
		CONTRACT NO. 64J89		
	ILLINOIS FED. AID PROJECT			