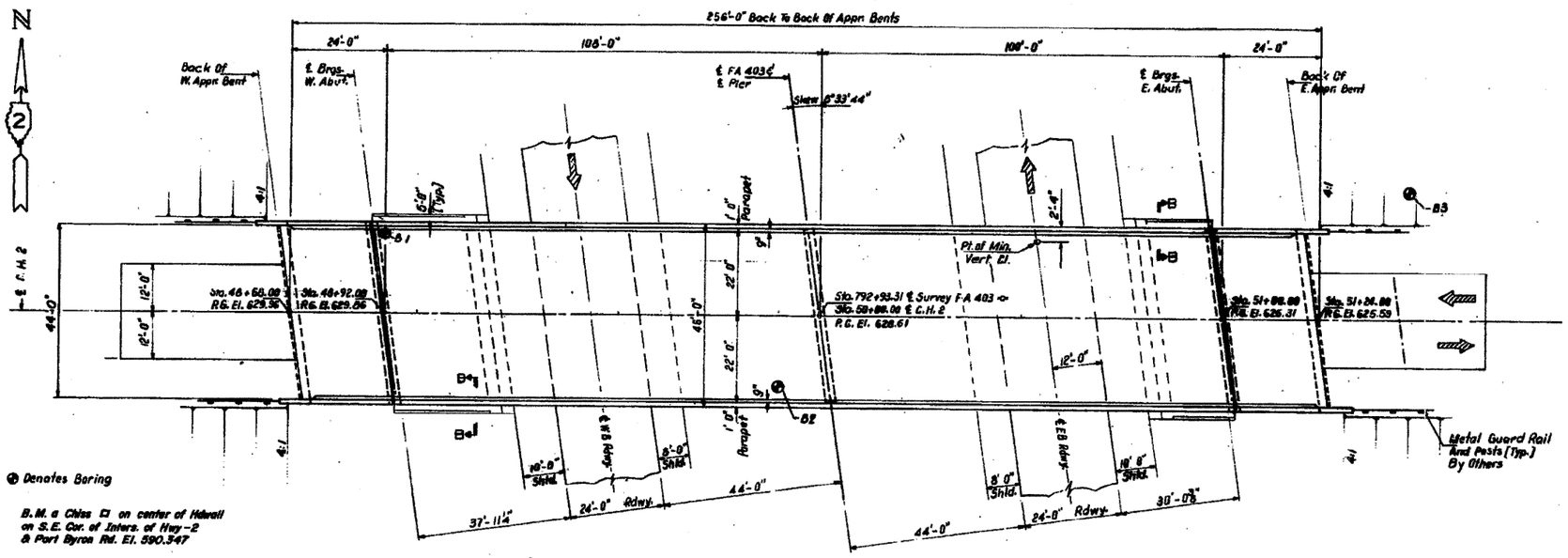
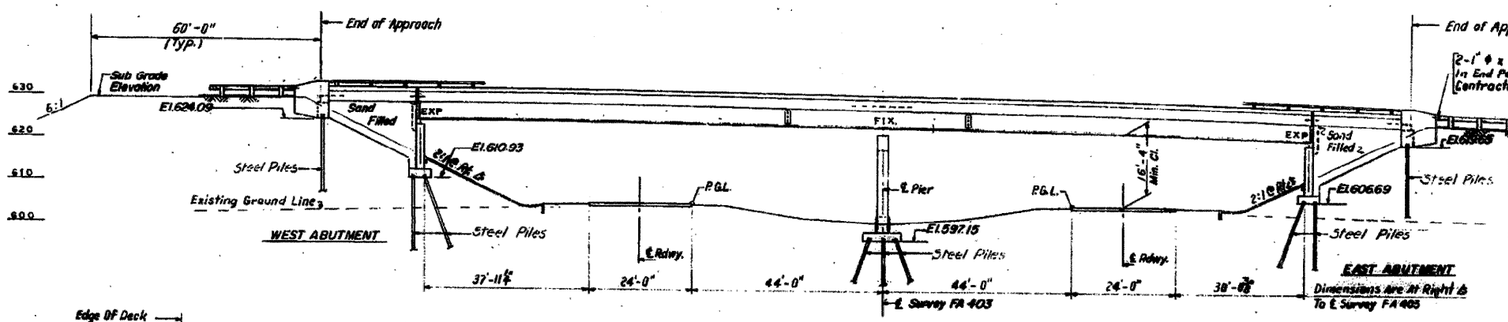
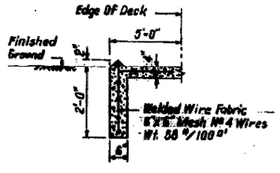


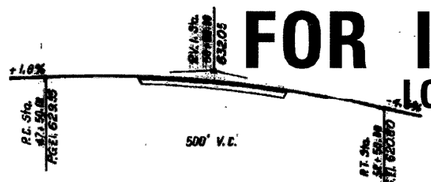
PLAN



ELEVATION

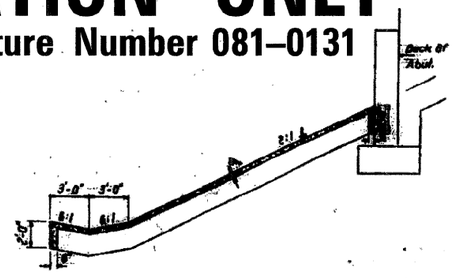


SECTION B-B

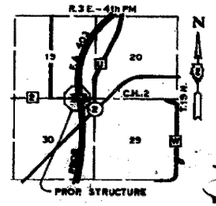


PROFILE CH. 2
(Top of Class I)

PROFILE FA 403 ALONG ℄ SURVEY



SECTION THRU SLOPEWALL AT ABUT.



LOCATION MAP

DESIGNED	B M
CHECKED	P B
DRAWN	G G
CHECKED	D M P

FOR INFORMATION ONLY

LOCATION 3 Structure Number 081-0131

GENERAL NOTES

ALL REINFORCEMENT BARS SHALL BE LAPPED 24 DIAMETERS UNLESS OTHERWISE SHOWN.

FIELD CONNECTIONS SHALL BE BOLTED USING HIGH STRENGTH BOLTS. BOLTS 3/4" ϕ, OPEN HOLES 13/16" ϕ, 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 OF FLANGE OF BEAMS OR GIRDERS DUE 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 BOLTING CROSS FRAMES OVER SUPPORTS.

SLOPE WALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC 6" x 6" MESH WEIGHING 86 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 THREE STEEL TEST PILES IN A PERMANENT LOCATION, ONE EACH AT THE WEST AND EAST ABUTMENTS AND PIER AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE PILES.

THE CONCRETE RAIL SECTION ABOVE THE MANDATORY CONST. 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 WATERPROOFING MEMBRANE SYSTEM IS APPLIED.

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 or wide flange beams.

STATION 792+93.31
BUILT 19 BY
STATE OF ILLINOIS
FA 403 SECTION 161-1HB-7
FA PROJ. ESRF-403-1(6)
LOADING HS 20

NAME PLATE
SEE STD. 2113

DESIGN NOTES

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

DESIGN STRESSES:
f_c = 1400 P.S.I. Except As Follows:
f_c = 1200 P.S.I. For Deck Slab.
f_c = 1800 P.S.I. For Conc. In Contact With Earth.
f_s = 20,000 P.S.I. Structural Steel.
f_s = 20,000 P.S.I. Reinforcement Steel.
v = 75 P.S.I. Allowable Shear In Footings.
n = 10
Allowable Live Load Deflection = L/1200 (Composite)
DESIGN SPECIFICATIONS: AASHO 1973 As Applicable

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER STRUCT.	SUB STRUCT.	TOTAL
STRUCTURE EXCAVATION	CU. YDS.	-	115	115
PROTECTIVE COAT	SQ. YDS.	182	-	182
CLASS "X" CONCRETE	CU. YDS.	394.5	288.7	683.2
STRUCTURAL STEEL	L. SUM	0.08	-	0.08
ALUMINUM RAILING	LIN. FT.	801	-	801
REINFORCEMENT BARS	LBS.	97,480	37,240	134,720
STUD SHEAR CONNECTORS	EACH	2,088	-	2,088
STEEL PILES HP 10x42	LIN. FT.	-	9,296	9,296
TEST PILES HP 10x42	EACH	-	3	3
NAME PLATES	EACH	-	1	1
SLOPE WALLS (6")	SQ. YDS.	-	378	378
BIT. CONC. SURFACE COURSE CL. I	TONS	55	-	55
WATERPROOFING MEMBRANE SYS.	SQ. YDS.	1203	-	1,203
SAND BACKFILL	CU. YDS.	-	408	408
PREFORMED JT. SEALER 4"	LIN. FT.	90.0	-	90.0
PERMANENT BENCH MARKS TYPE I	EACH	1	-	1

* CALCULATED WEIGHT OF STRUCTURAL STEEL = 324,390

APPROVED
STRUCTURAL ENGINEER

GENERAL PLAN & ELEVATION
FA 403 SECTION 161-1HB-7
FA 403 UNDER C.H. 2
ROCK ISLAND COUNTY
STATION 792+93.31

* FAI ROUTES 74 & 88
** D2 BRIDGE PAINTING 2008-1

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	ROCK ISLAND	40	20
		CONTRACT NO. 64D89		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		