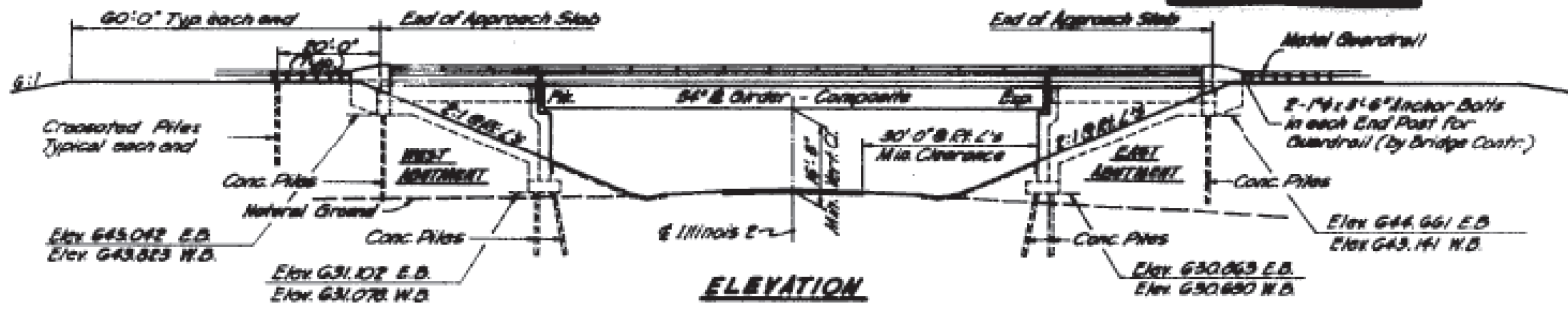


048-0073 & 098-0074

ROUTE NO.	SEC.	COUNTY	SHEET	SHEET NO. / of
195-2	HB-3	WHITESIDE	480 / 82	2 / SHEETS
F.A. 403				
ILLINOIS F.A. PROJ.				

B.M. Spike & washer in side 30" Maple  
154' Rt. of Sta. 2197+00 Elev. 618.89



STATION 2100 + 86.04  
BUILT 197 BY  
STATE OF ILLINOIS  
F.A. RTE. 403-SEC. 195-2 HB-3  
F.A. PROJ. EMP-889-403-1(3)  
LOADING HS 20

**DESIGN STRESSES**  
 $f_c = 1800$  psi Deck Slab  
 $f_c = 1400$  psi Curb, Parapet, & Substructure  
 $f_c = 75$  psi Footings  
 $n = 10$   
 $f_s = 23,000$  psi Reinforcement  
 $f_s = 20,000$  psi Structural  
 Allowable Deflection =  $L/1800$   
 Design Specifications: MPP, MSRD (as applicable)  
 Add 25% for Future Wearing Surface

**PRECAST PRESTRESSED UNITS**  
 $f_c = 5000$  psi  
 $f_{ci} = 4000$  psi  
 $f_s = 248,000$  psi Strands  
 $f_{si} = 175,600$  psi Strands

**LOADING HS 20-44**

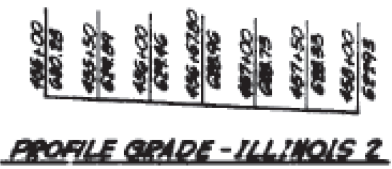
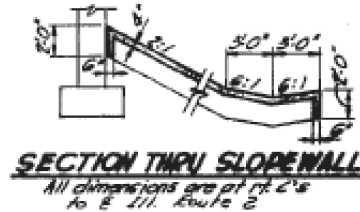
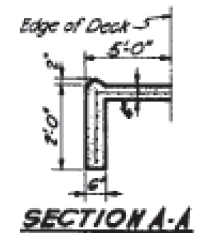
**APPROACH PILE DATA**  
 Type - Crossed  
 Length Road - W.A.-W.B. EA-WB. W.A.-EB. EA-EB.  
 15' 27' 19' 29'  
 No. Road. 9 10 6 6  
 See Special Provisions



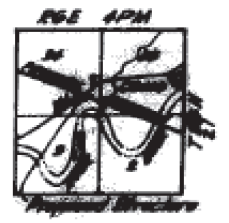
**TOTAL BILL OF MATERIAL**

Item	Unit	Super	Sub.	Total
Structure Excavation	Cu. Yds.	---	251	251
Class I Concrete	Cu. Yds.	513.2	482.9	997.1
Structural Steel	Lump Sum	---	---	1
Reinforcement Bars	Lbs.	115,440	31,750	147,190
Precast Prestressed Conc. I Beams, 36"	Lin. Ft.	530	---	530
Concrete Piles	Lin. Ft.	---	3012	3012
Cast in Place Concrete	Each	---	4	4
Crossed Piles (Up to 20')	Lin. Ft.	---	276	276
Crossed Piles (20' to 30.0)	Lin. Ft.	---	444	444
Bit Conc. Surf. Class I	Tons	127	---	127
Coal Tar Int. Protective Coat	Sq. Yds.	1510	---	1510
Aluminum Siding	Lin. Ft.	627	---	627
Preformed Joint Sealer	Lin. Ft.	204	---	204
Steel Slicer Connectors 1/2"	Each	2001	---	2001
Name Plates	Each	2	---	2
Protective Coat	Sq. Yds.	252	35	277
Face Wall 4"	Sq. Yds.	---	0.15	0.15

**NAME PLATE**  
(See Std. 2113)

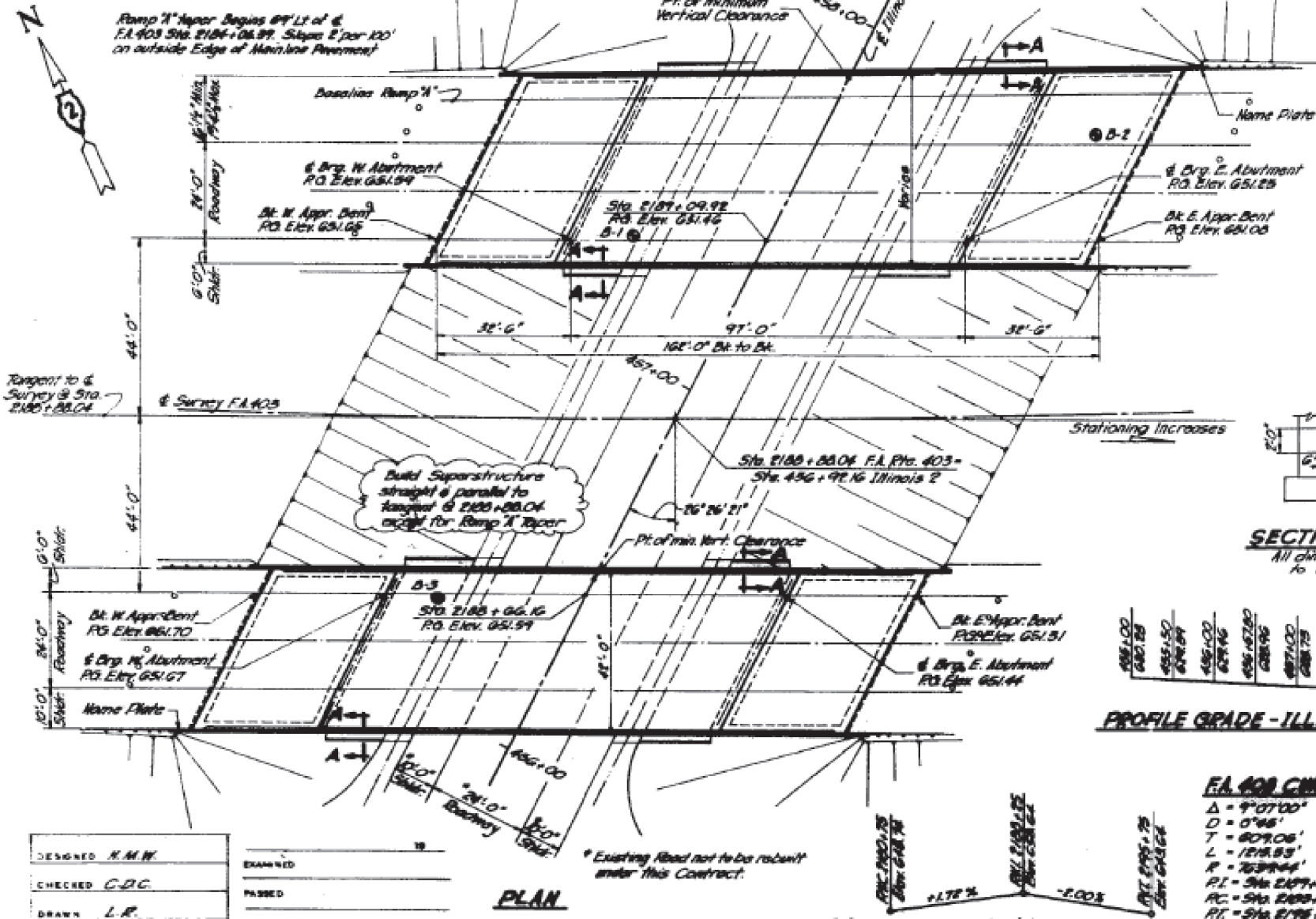


**F.A. 403 CURVE DATA**  
 $\Delta = 9^{\circ}07'00''$   
 $D = 5^{\circ}45'$   
 $T = 809.06'$   
 $L = 1215.53'$   
 $R = 7539.44'$   
 $PI = Sta. 2187+07.65$   
 $PC = Sta. 2189+02.98$   
 $PT = Sta. 2195+15.12$   
 Super = .028 1/2



**GENERAL PLAN AND ELEVATION**  
 PROJECT F.A. 403  
 F.A. RTE. 403-SEC. 195-2 HB-3  
 WHITESIDE COUNTY  
 STATION 2100 + 86.04

PLANS PREPARED BY MACKIE ENGINEERING CO.  
No. 197-78



DESIGNED	H.M.W.	DRAWN	
CHECKED	C.D.C.	PASSED	
DRAWN	L.P.	APPROVED	
CHECKED	H.M.W.		

**PLAN**



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING  
BRIDGE PLANS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRIDGE PAINTING 2014-5	WHITESIDE	12	7
			CONTRACT NO. 64K12	

ILLINOIS