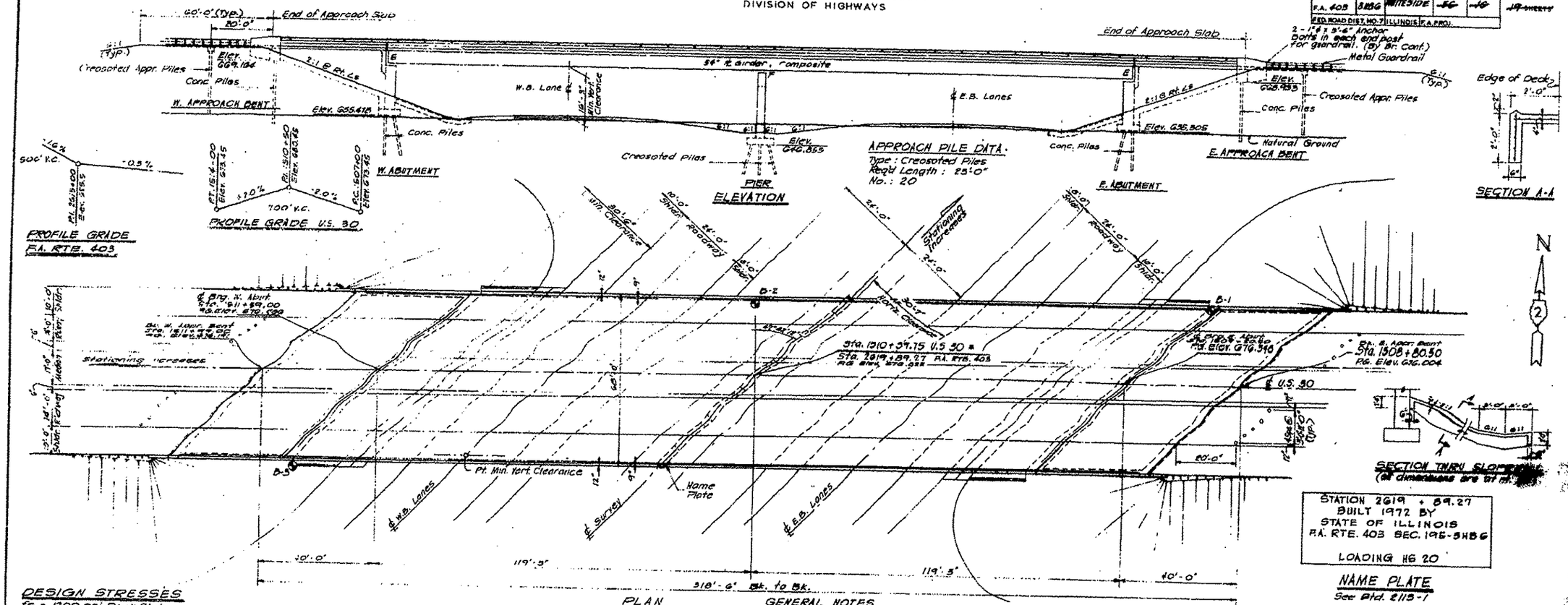
FOR INFORMATION ONLY

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

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 403	196 B&B G	WHITESIDE	56	10

FED. ROAD DIST. NO. 7 ILLINOIS F.A. PROJ.

SHEET NO. 10 OF 19 SHEETS



PLAN

NAME PLATE
See Std. 2115-1

DESIGN STRESSES

fc = 1200 psi Deck Slab
fc = 1400 psi Curb, Parapet, Substructure
Vc = 75 psi Footings
n = 10
fs = 20,000 psi Reinf.
fs = 20,000 psi Struct.
Allowable ℄ Deflection = 1/1440
Design Specifications - 1969 AASHO (as applicable)
Allow 25 #/sq ft for Future Wearing Surface

PRECAST PRESTRESSED UNITS

fc = 5000 psi
fci = 4000 psi
fs = 248,000 psi Strands
fsi = 173,600 psi Strands

LOADING - HS 20-44

DESIGNED H. Walker	19	EXAMINED
CHECKED J. Roberts		PASSED
DRAWN J. Roberts		APPROVED
CHECKED S. McKnight		

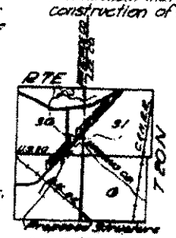
TOTAL BILL OF MATERIALS

Item	Unit	Super.	Sub.	Total
Structure Excavation	Cu.Yds.	—	96	96
Class X Concrete	Cu.Yds.	786.7	634.0	1420.7
Structural Steel	Lump Sum	1	—	1
Reinforcement Bars	Lbs.	187418	58786	246204
Concrete Piles	Lin. Ft.	—	3933	3933
Driving Concrete Piles	Lin. Ft.	—	3933	3933
Test Piles, Concrete	Ea.	—	2	2
Creosoted Piles (Up to 20')	Lin. Ft.	—	1600	1600
Creosoted Piles (20' to 35')	Lin. Ft.	—	460	460
Driving Timber Piles	Lin. Ft.	—	2060	2060
Test Piles, Timber	Ea.	—	1	1
Aluminum Railing	Lin. Ft.	623	—	623
Neoprene Exp. Joint 2"	Lin. Ft.	184	—	184
Stud Shear Connectors, ¾"	Ea.	4140	—	4140
P.P.C. I-Beams 36"	Lin. Ft.	577	—	577
Protective Coat	Sq. Yds.	662	226	888
Name Plate	Ea.	—	1	1
Slope Wall 4"	Sq. Yds.	—	485	485
Bit. Surface, Class I	Tons	140	—	140
Coal Tar Int. Prot. Coat	Sq. Yds.	1078	—	1078

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
Fasteners shall be high strength bolts. Bolts to be ⅞" ø open holes 1⅛", unless otherwise noted.
Calculated weight of Structural Steel = 615741 Lbs.
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 or girders 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 bolting diaphragms over supports.
Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 sq. ft.
The Contractor shall drive one concrete test pile of each abutment in place and permanent creos. pile at the pier as directed by the Engineer before ordering the remainder of piles.
Concrete piles at approach bents shall be driven in holes precored through the embankment in accordance with Article 518.09(c) of the Standard Specifications.
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 Coal Tar Interlayer Protective Coat is applied.
The embankment configuration shown shall be the minimum embankment that must be constructed prior to the construction of the abutments.

REGISTERED STRUCTURAL ENGINEER - STATE OF ILLINOIS 81-3185



LOCATION SKETCH

SN: 096-8091

GENERAL PLAN AND ELEVATION
PROJECT - F.A. 403
U.S. 30 OVER F.A. RTE. 403
F.A. RTE. 403 - SEC. 196-3 HB-6
WHITESIDE COUNTY
STATION 2619 + 89.27

Rev. 5-26-71 Creos. Piles (Up to 20') from 1620 to 1600 lin. ft., Conc. Piles from 3845 to 3933 lin. ft., S.M. Rev. 9-23-71 Structure Excav. from 106 to 96 cu. yd.