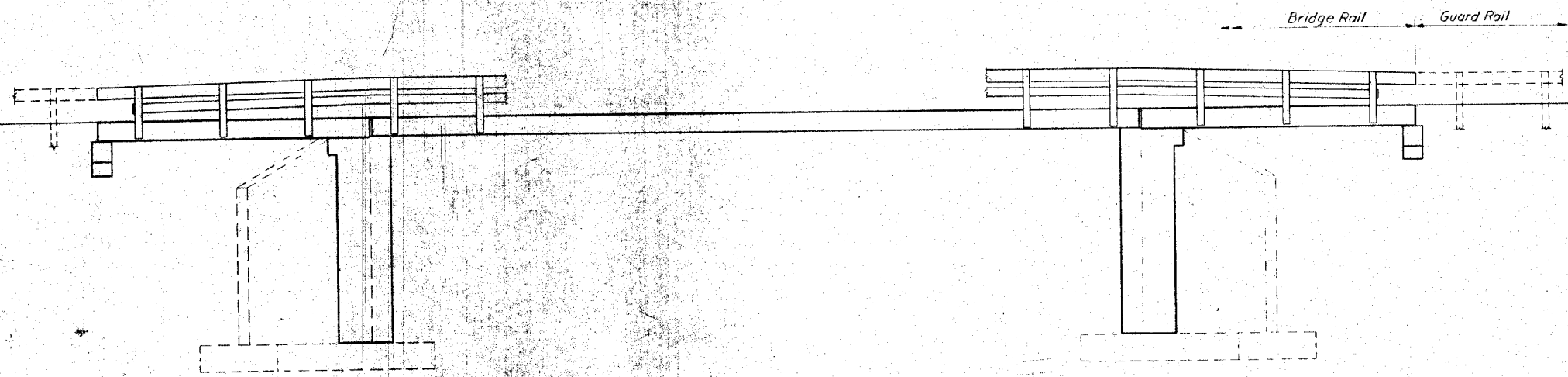


Built as S.B.I Rt. 5, Section 23B, Sta 123+25, Year 1921
 Existing Structure: P.C. Tied Girders on Closed Abutments
 Superstructure 38'-0" long, 23'-0" wide.

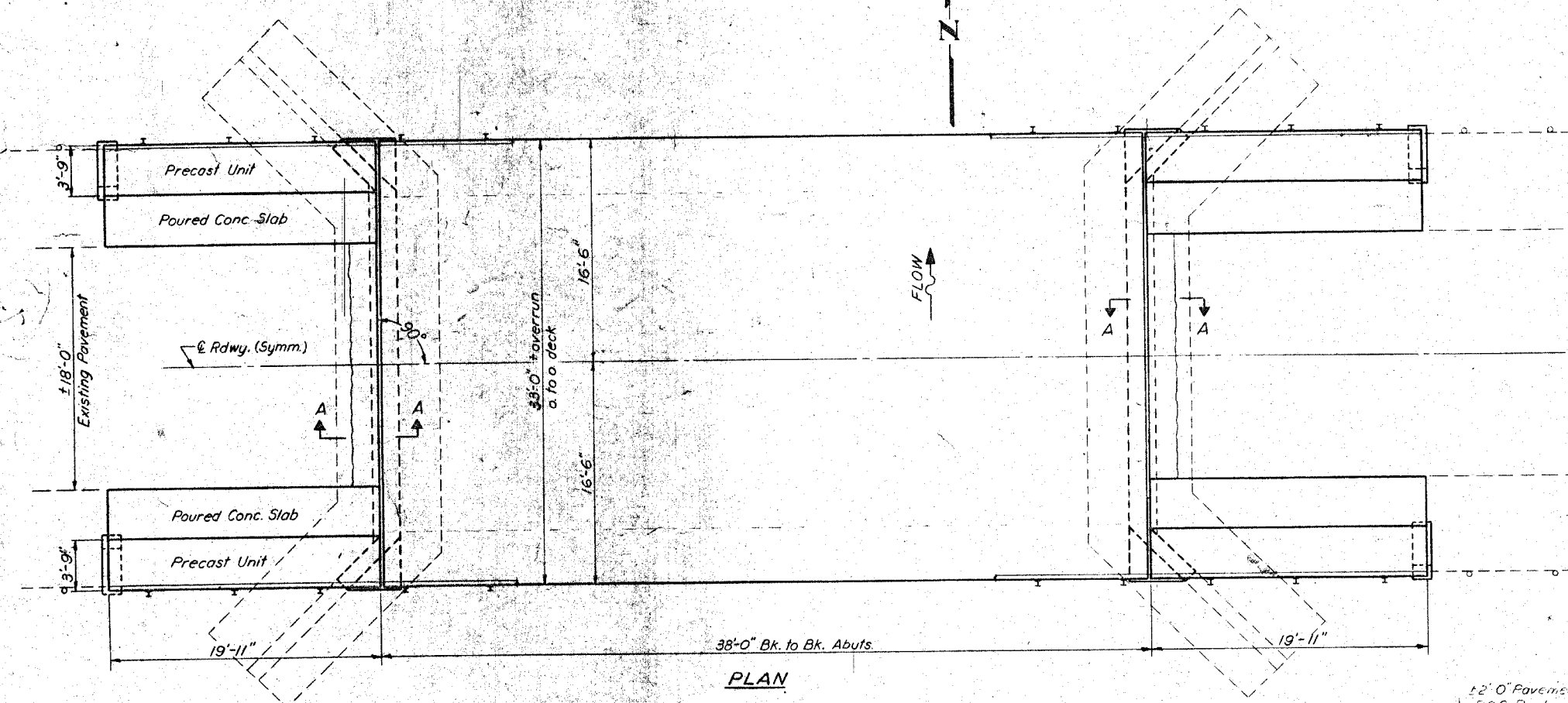
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

CONTRACT NO. 64412

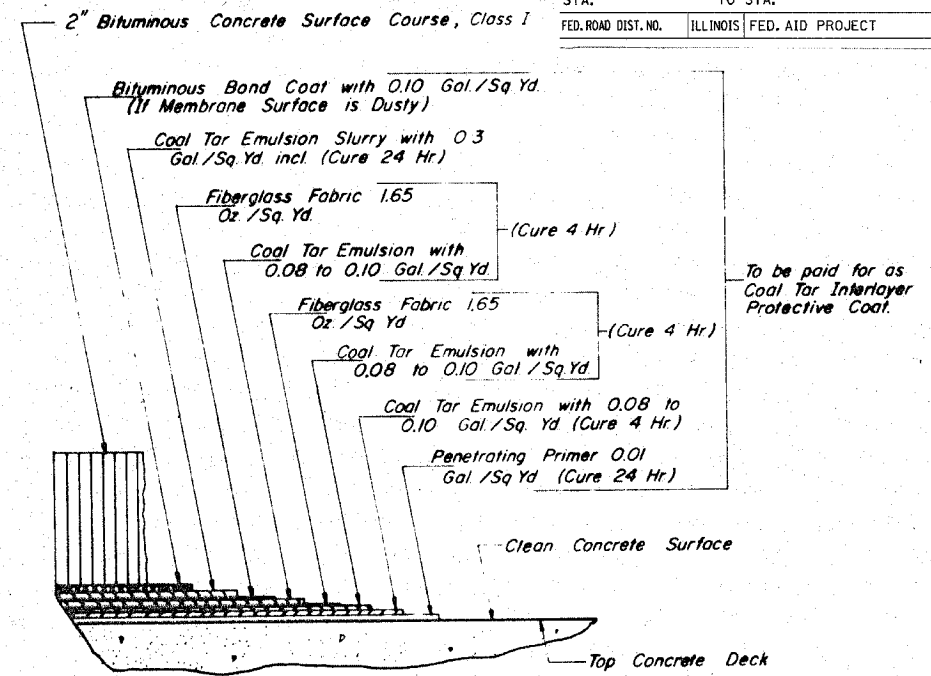
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	23 BR-2	JO DAVIESS	30	17
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



ELEVATION



PLAN



DETAIL OF DECK SURFACING

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
 It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.
 An alternate strand pattern using Extra High Strength Prestressing strand (270 ksi.) is permitted.
 Expansion bolts shall consist of self drilling expansion shields and 3/4" hooked bolts. Hooked bolts shall extend a minimum of 12" into new concrete.
 Any excavation shall be incidental to Bridge Contract.
 Shoulder transition to wingwall shall be shaped with broken concrete.
 Cost Incidental

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Portland Cement Concrete Pavement (10")	Sq. Yds.	33		33
Pavement Fabric	Sq. Yds.	33		33
Concrete Removal	Cu. Yds.		6	6
Expansion Bolts (3/4")	Each	52	92	144
Class X Concrete	Cu. Yds.		25.4	25.4
Precast Concrete Bridge Slab	Sq. Ft.	299		299
Precast Prestressed Concrete Deck Beams (17)	Sq. Ft.	1248		1248
Steel Railing, Type W	Lin. Ft.	138		138
Reinforcement Bars	Lbs.		370	370
Pavement Removal & P.C.C. Replacement Type 2 (10)	Sq. Yds.		3	3
Removal of Existing Superstructure	Sq. Ft.	1		1
* Coal Tar Interlayer Protective Coat	Sq. Yds.	133		133

Applied Bk. to Bk. Abuts.

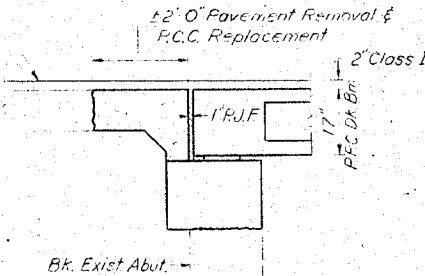
DESIGNED James Pence
 CHECKED Jack Armstrong
 DRAWN J.L. Armstrong
 CHECKED JP

EXAMINED [Signature]
 PASSED [Signature]
 APPROVED Richard H. Holterman
 CHIEF HIGHWAY ENGINEER

DESIGN STRESSES

FIELD UNITS PRECAST PRESTR. UNITS
 $f_c = 1400$ psi. (super) $f'_c = 5000$ psi.
 $f_c = 1000$ psi. (sub) $f'_c = 4000$ psi.
 $f_s = 20,000$ psi. (reinf) $f'_s = 248,000$ psi.
 $V_c = 75$ psi. (footing) $f_{si} = 173,600$ psi.
 $n = 10$

LOADING HS 20-44



SECTION A-A

GENERAL PLAN & ELEVATION
 YELLOW CREEK
 S.B.I. RT. 5 (U.S. 20) SEC. 23 BR
 JO DAVIESS COUNTY
 STA. 123+25