

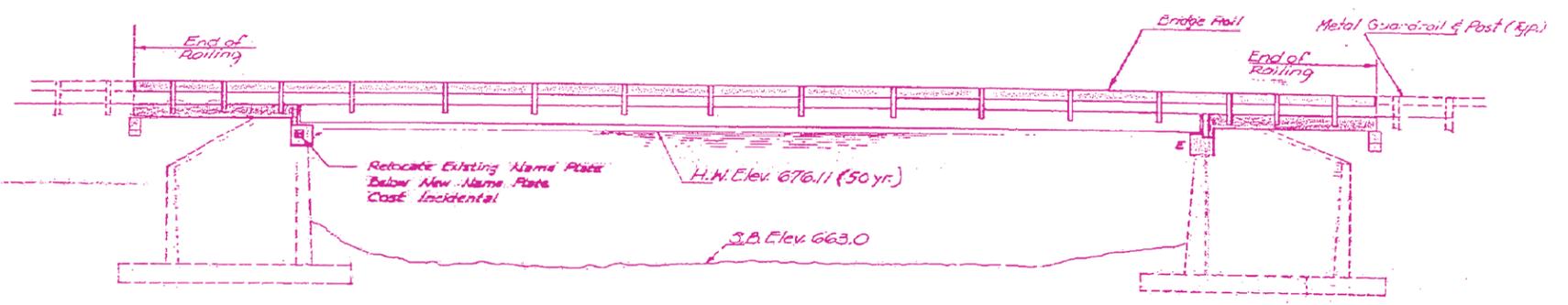
B.M. Sq. in top S.E. wall 15' Rt Sta. 688+42 Elev. 678.25
 Exist. Structure Built 1928 as 3B1 49 Sec. 11B.B
 Sta. 688+85 R.C. thru Girder, Closed Conc. Abut.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROJECT NO.	DISTRICT	COUNTY	TOTAL SHEETS	SHEET NO.
118BR-1	183R-1	CHAMPAIGN	24	14

GENERAL NOTES

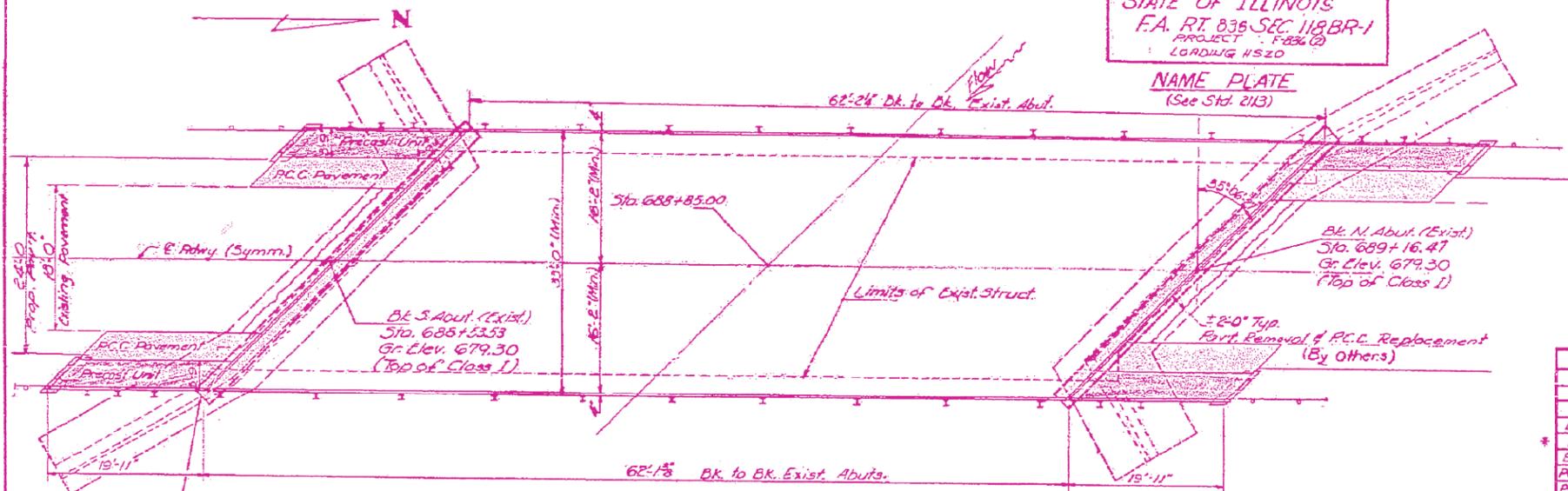
All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
 It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.
 All structural steel shall be shop painted with two coats of basic lead silico chromate paint.
 Expansion bolts shall consist of self drilling expansion anchors and 3/4" hooked bolts.
 The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.
 Expansion guards which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07(c) of the Standard Specifications and are included in quantity of structural steel.
 Shoulder transition to wingwall shall be shaped with broken concrete. Cost incidental.
 Limits of Waterproofing Membrane System shall be back to back of abutments and out to out of deck, except as shown.
 Hooked bolts shall extend a minimum of 12" into new concrete as shown on sheet 9.



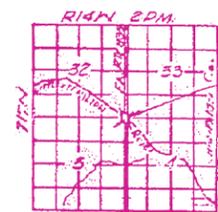
ELEVATION

STATION 688+8500
 REBUILT 19 BY
 STATE OF ILLINOIS
 F.A. RT. 836 SEC. 11B BR-1
 PROJECT - F-836 (2)
 LOADING HS20

NAME PLATE
 (See Std. 213)



PLAN



LOCATION SKETCH

PROP. PROFILE GRADE
 EA. RTE. 836
 (Top of Class I)

DESIGN STRESSES

FIELD UNITS	PRECAST PRESTR. UNITS	PRECAST UNITS
$f_c = 1400$ psi (super)	$f_c = 5000$ psi	$f_c = 4500$ psi
$f_c = 1000$ psi (sub)	$f_{ci} = 4000$ psi	$f_c = 1800$ psi
$f_s = 20,000$ psi (road)	$f_s = 27,000$ psi	$f_s = 20,000$ psi
$v_c = 75$ psi (footing)	$f_{ci} = 189,700$ psi	$n = 8$
$n = 10$		

LOADING HS 20-44

TOTAL BILL OF MATERIAL

Items	Unit	Super	Sub.	Total
Bituminous Concrete Binder Course	Tons	24		24
Portland Cement Mortar Facing Course	Lin. Ft.	618		618
Bituminous Concrete Surface Course Class I	Tons	16		16
Portland Cement Concrete Pavement (10")	Sq. Yds.	33		33
Pavement Fabric	Sq. Yds.	33		33
Concrete Removal	Cu. Yds.		10	10
Expansion Bolts (3/4")	Each	48	42	90
Class X Concrete	Cu. Yds.	0.9	27.5	28.4
Precast Concrete Bridge Slab	Sq. Ft.	279		279
Precast Prestressed Concrete Deck Beams (2TD)	Sq. Ft.	2040		2040
Steel Rolling, Type S	Lin. Ft.	206		206
Reinforcement Bars	Lbs.	120	5190	5310
Removal of Existing Superstructures	Each	1		1
Waterproofing Membrane System	Sq. Yds.	245		245
Preformed Joint Sealer (2 1/2")	Lin. Ft.	40		40
Temporary Bridge - Complete	Ea.	1		1
Structural Steel	Lbs.	2820		2820
Name Plate	Ea.	1		1

* See Special Provisions

PROJECT - F-836 (2)
 GENERAL PLAN & ELEVATION
 LITTLE VERMILION RIVER
 EA. RTE. 836 SEC. 11B BR-1
 CHAMPAIGN COUNTY
 STA. 688+8500

DESIGNED: Kusan (Nabe, B)
 CHECKED: G. L. S. L.
 DRAWN: A. Darfozo
 CHECKED: Stanley, S. M.

EXAMINED: [Signature]
 PASSED: [Signature]
 APPROVED: [Signature]
 DIRECTOR OF HIGHWAYS

August 9, 1971



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