

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
19B-1M	*	Rock Island	29	10
SHEETS				
* Section (19B-1M) Contract #64B06				

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-322 Grade 60.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Existing structure construction plans and subsequent repair plans are available from the IDOT District office by written request. The contractor shall be responsible for obtaining and reviewing the plans prior to construction.

The minimum thickness of the Concrete overlay shall be 5" and varies as required to adjust for the new profile grade and beam camber.

A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the fascia deck beam on the side exposed to view, and the adjacent side underneath for a distance extending 9 in. Cost included with PPC Deck Beams (27").

The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the exterior face and 9" in on the underside of the fascia beams. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.

All construction joints shall be bonded.

No instream work will be allowed on this project.

The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the deck beams.

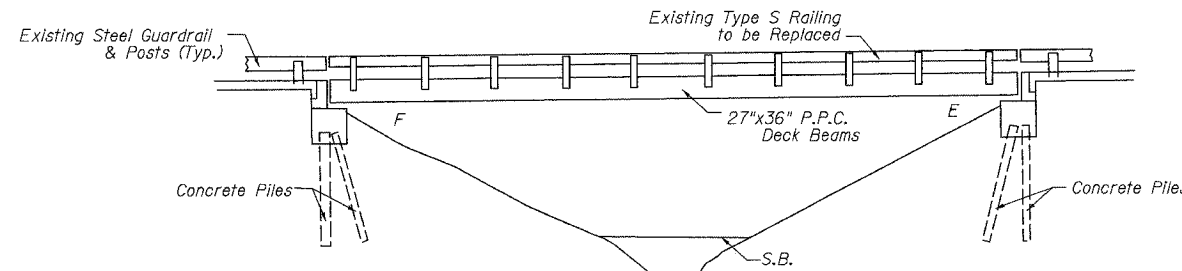
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Any damage done to the bridge during beam removal and joint reconstruction shall be repaired by the Contractor. Cost to be included in the cost of "Removal of Existing P.P.C. Deck Beams".

Protective Coat quantity is included for the top and side surfaces of the concrete wearing surface.

TOTAL BILL OF MATERIAL

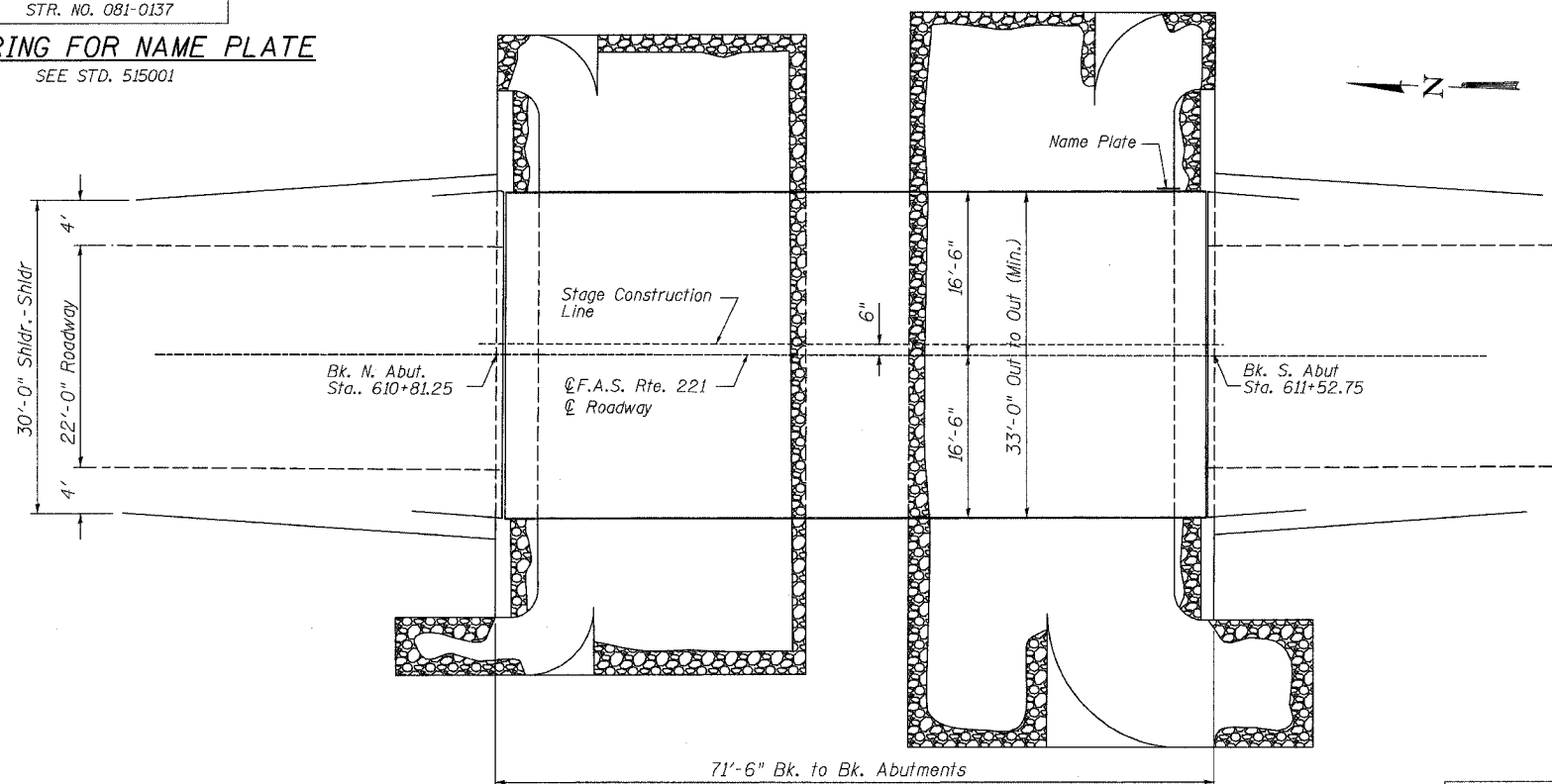
ITEM	UNIT	TOTAL
Removal of Existing Precast Prestressed Concrete Deck Beams	Sq Ft	410
Bridge Deck Grooving	Sq Yd	236
Concrete Wearing Surface, 5"	Sq Yd	251
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq Ft	410
Reinforcement Bars, Epoxy Coated	Pound	3300
Concrete Structures	Cu Yd	1.7
Concrete Removal	Cu Yd	1.3
Bar Splicers	Each	71
Steel Bridge Rail, Type SM	Foot	137
Bituminous Concrete Surface Removal Complete	Sq Yd	215
Protective Coat	Sq Yd	258
Silicone Joint Sealer, 1 1/2"	Foot	33
Polymer Concrete	Cu Ft	2.4
Name Plates	Each	1



ELEVATION

STATION 197+47.30
MILL CREEK
BUILT 1979
RE-BUILT 2006
F.A.S. RT. 221 SEC. (19B-1M)
F.A. PROJ. RS-221(102)
LOADING HS20-44
STR. NO. 081-0137

LETTERING FOR NAME PLATE
SEE STD. 515001



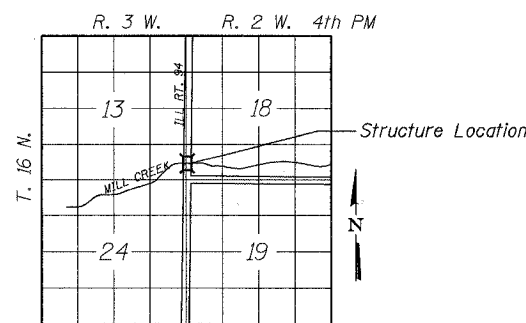
PLAN

LOADING HS20-44 (New Construction)
No Allowance for Future Wearing Surface

DESIGN SPECIFICATIONS (New Construction)
2002 AASHTO

DESIGN STRESSES

FIELD UNITS	PRECAST PRESTRESSED UNITS
$f'_c = 3,500$ p.s.i.	$f'_c = 5,000$ p.s.i.
$f_y = 60,000$ p.s.i. (Reinforcement)	$f'_{ci} = 4,000$ p.s.i.
$f_c = 5,000$ p.s.i. (Concrete Wearing Surface)	$f'_s = 270,000$ p.s.i. (1/2" Low Lax Strands)
	$f'_{si} = 201,960$ p.s.i. (1/2" Low Lax Strands)



LOCATION SKETCH

WENDLER ENGINEERING
SERVICES, INC.
Illinois Professional Design
Firm No. 184-000848
Bridge plan sheets
1 thru 8 Only



Scott A. Brown 10/25/05
DATE
SCOTT A. BROWN
DIXON, ILLINOIS
ILLINOIS LICENSED STRUCTURAL
ENGINEER NO. 081-005981
EXPIRES 11-30-2006

GENERAL PLAN AND ELEVATION
F.A.S. 221 (IL RTE 94)
OVER MILL CREEK
SECTION (19B-1M)
ROCK ISLAND COUNTY
STR. NO. 081-0137

DESIGNED	SB
CHECKED	RB
DRAWN	BH, BS
CHECKED	SB