

F.A.S. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5BR-2	WASHINGTON	97	45	
STA. _____		TO STA. _____		
ILL. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

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

SHEET NO. 2
6 SHEETS

ELEVATION

15'-11" total length
4'-11 1/4" left side
3'-1 1/4" right side
1" Post spaces at 7'-10"
Furnish 2 Right Hand Units & 2 Left Hand Units
See Rail Post Insert Details on Sheet # 4
2-3/4" x 1'-6" Dowel Bars Each End
Class X Concrete Appr. Cap to be poured against Undisturbed Embankment

SECTION A-A

Elev. 94.53
Edge of Existing Pavement
Pavement Fabric See Std. 215-2
10" Portland Cement Concrete Pavement
3/4" P.I.F.
3/4" Expansion Bolts
3/4" Threaded Inserts for 12" hooked bolts
1/4" x 7/8" Fabric Bearing Pads Each End

SECTION THRU PRECAST UNIT

1'-6" height
3'-9" width
2'-9" width
3'-9" width

Bar No.	Size	Length	Shape
A	#4	3'-3"	
A ₁	#4	4'-0"	
B	#4	15'-9"	
B ₁	#4	3'-6"	
G	#10	15'-9"	
S	#3	3'-4"	

PARTIAL PLAN OF APPROACH

10-3/4" Expansion Bolts at 18" cts.
10-3/4" Threaded inserts with 12" hooked bolts at 18" cts.
1'-5" spacing
1'-3" spacing
1'-2" spacing
1'-0" spacing
2" Holes for 3/4" Dowel Bars
Location of Lifting Loops - 2 Each End
15'-11" total length

LONGITUDINAL SECTION

2-#4 B bars
12-#3.5 bar spaces at 12" cts.
2-#4 B bars
2-#4 B bars
4-#1 Wires at all dowel holes

SLAB REINFORCEMENT

2'-#4 A bars at 9" cts. Top
4'-#4 A bars at 48" cts. Bottom

LIFTING LOOP DETAIL

Top of Slab
Forming Loop
Cable Clamp

NOTES

Unless otherwise approved by the Engineer, lifting loops shall be 1/4" Ex 19 class wire rope with fiber core and shall have a minimum ultimate strength of 18,700 lbs. Loops shall be buried off after slab has been erected. Holes shall be drilled and anchor dowels grouted in place. Cost of reinforcement and accessories cast into the slab unit, bearing pads, furnishing, drilling for, placing and grouting anchor dowels and 3/4" hooked bolts is included in unit bid price for "Precast Concrete Bridge Slab." The Precast Concrete Bridge Slab shall be erected and aligned with the exterior face of the exterior Deck Beam after Deck Beams are in final position.

Item	Unit	Quantity
Precast Concrete Bridge Slab	Sq. Ft.	239
Portland Cement Concrete Pavement (10")	Sq. Yds.	27
Pavement Fabric	Sq. Yds.	27
Expansion Bolts 3/4"	Each	40
Class X Concrete	Cu. Yds.	1.6

STRESSES

f_c = 4,500 psi
f_c = 1,800 psi
f_s = 20,000 psi
n = 8
LOADING, HS-20

APPROACH DETAILS
FA, RT 16, SEC 3-BR1
WASHINGTON COUNTY
STA. 1453+15

AP-1 20 Precast Appr Unit (R.L.)

FOR INFORMATION ONLY

S.N. 095-0077

REVISIONS		DATE
NAME		

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING STRUCTURE PLANS

FAS ROUTE 1832
SECTION 5BR-2
WASHINGTON COUNTY

SCALE: VERT. _____
HORIZ. _____
DATE _____

DRAWN BY _____
CHECKED BY _____

PLOT DATE = 11/29/2007
 FILE NAME = c:\projects\edg\105\plan\plan105.dgn
 PLOT SCALE = 50.0000 / 1"
 REFERENCE = #REF#