FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTR. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
R.B.I. R.2646	IBR-1	Whiteside	64	46
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 23
26 SHEETS

PLAN

Sta. 16+71.90
℄ Pier
℄ Rdwy.
℄ Existing Structure
Stage Construction Line
33'-5¼" Stage II Construction
27'-4⅛" Stage I Construction
9'-0"
3'-0½"
30 #4 v_1 bars at ± 12" cts. Top & Bott.
20 #4 v_1 bars at ± 12" cts. Top & Bott.
7 #4 s_1 @ 8" cts. Top & Bott.
Elev. 645.11
Elev. 645.59
Elev. 645.54
8 #8 p_2* See View F-F
3 #5 p_3 bars Top See View F-F
6 #8 p_2* bars Top
5 #8 p_2 bars Bott. See Sec. D-D
12 #9 p_1 bars Ea. Face
1 #5 p_4 Ea. Face
3 #5 p_3 bars Top See View E-E
8 #8 p_2* bars See View E-E
2 #5 p_1 bars Ea. Face
3 #5 p_3
*** Opening for Telephone Conduit
18 #4 v_1 bars at ± 12" cts. Front and Back Walls (Ea. Face) See Sec. B-B
7 #4 v_4 @ ± 12" cts. Frt. and Bk. Walls (Ea. Face) See Sec. B-B
2 #4 v_1 bars Frt. and Bk. Walls (Ea. Face) See Sec. B-B
4 #5 h_1 bars @ ± 12" cts. Frt. and Bk. Walls (Ea. Face)
2 #4 v_{15} bars See Sec. C-C
2 #4 v_{14} bars See Sec. B-B
2 #4 v_{15} bars See Sec. C-C
2 #4 v_{14} bars See Sec. B-B
Bonded Const. Joint
2 #5 z_2
Clean, straighten and incorporate existing reinforcement into new pier stem. (Typ.)
13 #4 v_{11} bars @ ± 12" cts. Front and Back Walls (Ea. Face) See Sec. C-C
7 #4 v_{11} bars @ ± 12" cts. Front and Bk. Walls (Ea. Face) See Sec. B-B
14 #5 v_2 bars at ± 12" cts (Ea. Face) See View E-E
Elev. ± 632.38
Const. Jt. See Art. 504.13 (a)(2) of Std. Specs.
2 #5 h_3 bars (Ea. Face)
1-1¾ Expansion Bolt
11 #5 h_3 bars at ± 12" cts. (Ea. Face) See Sec. A-A
9 #7 ¾" Expansion Bolts at 1806 = 900" See See A-A
20 #5 v_3 bars at ± 12" cts. Cut to fit as required (Ea. Face)
11 #5 h_3 bars at ± 12" cts. (Ea. Face) See Sec. A-A
3 #5 h_3 Ea. Face Cut to fit See Sec. A-A
3 #5 h_3 Ea. Face See Sec. A-A
E Pier
2" Chamfer (Typ.)
Varies from 2'-2" to 2'-6"
2d mm Typ.
Stage Construction Line
Varies from 23'-8½" to 24'-11⅞"
¾" Expansion Bolts
Const. Jt. See Art. 504.13 (a)(2) of Std. Specs.

*** Cut Reinforcement as needed for the Conduit Opening.

* Position these bars as close as possible to the top of the rebar cage.

ELEVATION

SEC. C-C

SEC. D-D

SEC. B-B

SEC. A-A

VIEW F-F

VIEW E-E

BAR u_1 or u_2

BAR h_2

BAR s or s_1

BAR v_3

BAR u

BAR p_3

PILE DATA

Type: Steel HP12x74
Capacity: Drive to Refusal
Est. Length: 17'
No. Req'd.: 6

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	24	#5	21'-4"	
h_1	16	#5	14'-0"	
h_2	32	#5	9'-3"	
h_3	32	#5	18'-9"	
p	7	#5	33'-3"	
p_1	7	#5	28'-8"	
p_2	16	#8	7'-4"	
p_3	6	#5	6'-10"	
p_4	2	#5	29'-8"	
p_5	2	#5	25'-1"	
p_6	13	#8	18'-6"	
s	28	#4	10'-5"	
s_1	108	#4	10'-11"	
u	6	#6	11'-2"	
u_1	24	#5	17'-11"	
u_2	12	#5	10'-11"	
v_2	34	#5	3'-6"	
v_3	82	#5	16'-6"	
v_4	114	#4	6'-3"	
v_5	82	#4	10'-1"	
Reinforcement Bars			Pound	7430
Class "C" Concrete			Cu. Yd.	101.1
Expansion Bolts ¾" ø			Each	41
Drilled Holes HP12x74			Ft.	102
Cofferdam			Each	1

DESIGNED DAN KRULL
CHECKED M.J. Ryan
DRAWN Joe Sutherland
CHECKED MJR

EXAMINED Feb. 29 1980
Earl C. Shumaker
DIRECTOR OF HIGHWAYS

PASSED
APPROVED
DIRECTOR OF PUBLIC WORKS

PIER #9
FA. RT. 646 SEC. IBR-1
WHITESIDE COUNTY
STATION 14+12.40

SHEET NO. 26 OF 31	TOTAL SHEETS	SHEET NO.
	257	237
CONTRACT NO. 64B80		
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