

. . . . . . . . . . . . .

\*Epoxy grout  $h_6(E)$ ,  $n_2(E)$ ,  $n_3(E)$  and  $n_4(E)$  bars in drilled holes of the depth specified by the

manufacturer to achieve full tension capacity and

inch min. drilled holes. Actual bar lengths are

required to be adjusted by the contractor before

Specifications. Bar lengths shown are based on 9

according to Article 584 of the Standard

ordering of material.

. . . .

SECTION D-D

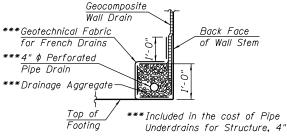
\*n<sub>2</sub>(E) -

. . . . . . . . . . . . . . . .

\*<u>n</u>з(Е) or

SECTION E-E

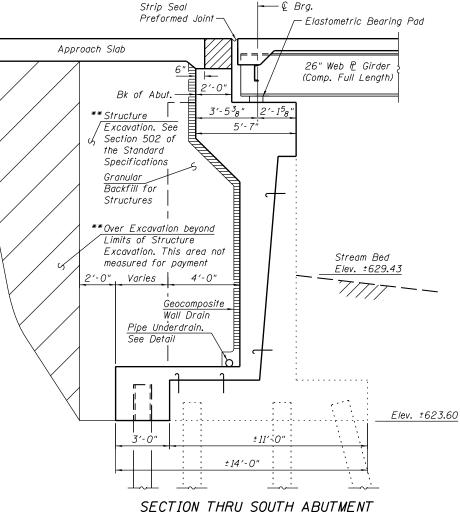
 $n_4(E)$ 



Note:

## PIPE UNDERDRAIN DETAIL

All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0" from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 6011101).



## **\*\*** Backfil remainder of structure

excavation and over excavation with same material specified for roadway embankment

	1170 SOUTH HOUBOLT ROAD	USER NAME = brienf	DESIGNED - KJL	REVISED		SOUTH ABUTMENT DET
	JOLIET, ILLINOIS 60431		CHECKED - AJS	REVISED	STATE OF ILLINOIS	
	STRAND (815) 744-4200	PLOT SCALE =	DRAWN - BJF	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 09
Ā	ASSOCIATES" IDFPR NO. 184-001273	PLOT DATE = 8/14/2014	CHECKED - KJL	REVISED		SHEET NO. 28 OF 35

±4'-934'

Note:

Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal. On all sections, horizontal dimensions at right angles.

## SOUTH ABUTMENT BILL OF MATERIAL

<u>BILL OF MATERIAL</u>								
Bar	No.	Size	Length	Shape				
h(E)	234	#5	33'- 3"					
$h_I(E)$	30	#6	34'-1"					
$h_2(E)$	36	#5	33'-3"					
h3(E)	4	#5	34'-4"					
h₄(E)	2	#5	17'- 3"					
h <sub>5</sub> (E)	4	#5	39'-3"					
h <sub>6</sub> (E)	1360	#6	1'-8"					
$h_7(E)$	12	#5	37'-11"					
$h_{g}(E)$	12	#5	23'-5"					
h <sub>20</sub> (E)	42	#5	36'-1"					
h <sub>21</sub> (E)	2	#5	23'-6"					
h <sub>22</sub> (E)	6	#5	36'-5"					
h <sub>23</sub> (E)	22	#5	14'-8"					
h <sub>24</sub> (E)	.3	#5	16'-8"					
h <sub>25</sub> (E)	4261	#6	2'-0"					
1125(2)	1201	-						
n <sub>1</sub> (E)	382	#7	7'-0"					
n <sub>2</sub> (E)	100	#7	9'-2"					
n3(E)	34	#7	13'-5"					
n4(E)	49	#7	13 5					
114(_)	15	,	11 /					
†(E)	364	#6	9'-0"					
$t_I(E)$	40	#6	3'-2"					
$t_2(E)$	113	#6	4'-3"	<u> </u>				
12121	11.5		, , ,					
v(E)	192	#5	3'-7"	1				
$v_{I}(E)$	36	#9	23-7"					
v <sub>2</sub> (E)	188	#5	8'-11"	П				
v 3(E)	188	#5	13'-9"	п				
V4(E)	360	#9	17'-11"	, U				
V4(E) V5(E)	192	#5	15'-7"					
v <sub>6</sub> (E)	192	#7	14'-6"					
v <sub>6</sub> (E)	152	#7	12'-8"					
v <sub>8</sub> (E)	25	#7	12'-6"					
vg(E)	17	#5	1'-5"					
Vg(E) V10(E)	79	#5	1'-3"					
$v_{II}(E)$	50	#7	17'-8"					
VII(E) VI2(E)	124	#4	11'-1"					
V <u>12</u> (L)	V]2(L) 12.4		11 1					
w(E)	4	#5	10′-6″					
w(L) w <sub>1</sub> (E)	20	#5	33'-11"					
$W_{I}(L)$		#5	36'-10"					
$W_2(E)$	10 	#5	18'-2"					
w <sub>3</sub> (E) w <sub>4</sub> (E)	20	#5	<u> </u>					
	4	#5	36'-1"					
w <sub>5</sub> (E) w <sub>6</sub> (E)	2	#5	36'-10"					
		#5	25'-3"					
w <sub>7</sub> (E) w <sub>11</sub> (E)	6 6	#5	<u>25-5</u> 11'-7"					
VV][(L)	U		11 - 1					
Reinforcement Bars, Epoxy Coated			Pound	90,900				
Concret	e Struc	tures	Cu. Yd.	489				
Furnish Piles Hi	ing Stee P12x53	e/	Foot	1,161				
Driving	Piles		Foot	<i>1,1</i> 61				
Test Pi	le HP12	x53	Each	1				
Structu	re Exca	vation	Cu. Yd.	340				
	e Seale		Sq. Ft.	1,811				
Geocom, Wall Dro	oosite		Sq. Yd.	409				
	r Backf	<i>ill</i>	Cu. Yd.	545				

For Bar Splicer Details See Sheet 32 of 35. For Details of Piles and Concrete Encasement See Sheet 30 of 35.

ETAILS (3 OF 3)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
. 098–0015	646	101 BR-3	WHITESIDE	130	87
. 038-0015	CONTRACT NO. 64C17				
35 SHEETS	ILLINOIS FED. AID PROJECT				