

PIER 11 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	8	#5	20'-6"	—
h2(E)	8	#5	16'-7"	—
h11(E)	104	#5	47'-2"	—
n3(E)	234	#11	12'-7"	⌋
s15(E)	96	#5	7'-2"	⌋
t1(E)	120	#8	11'-8"	—
t2(E)	120	#5	11'-8"	—
u8(E)	54	#5	10'-2"	⌋
v11(E)	234	#8	24'-0"	—
w4(E)	48	#5	49'-10"	—
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	45,048		
Concrete Structures	Cu. Yd.	308.4		
Structure Excavation	Cu. Yd.	308.1		

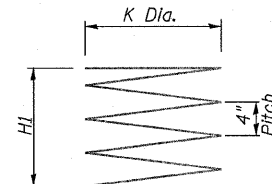
PIER 12 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	8	#5	20'-6"	—
h2(E)	8	#5	16'-7"	—
h11(E)	88	#5	47'-2"	—
n3(E)	234	#11	12'-7"	⌋
s15(E)	96	#5	7'-2"	⌋
t1(E)	120	#8	11'-8"	—
t2(E)	120	#5	11'-8"	—
u8(E)	50	#5	10'-2"	⌋
v12(E)	234	#8	20'-0"	—
w4(E)	48	#5	49'-10"	—
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	41,720		
Concrete Structures	Cu. Yd.	272.4		
Structure Excavation	Cu. Yd.	277.3		
Concrete Sealer	Sq. Ft.	552		

PIER 13 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	20	#5	46'-10"	—
h11(E)	10	#5	20'-6"	—
h2(E)	10	#5	16'-7"	—
h3(E)	36	#5	46'-0"	—
n(E)	6	#5	5'-4"	⌋
n2(E)	90	#8	7'-3"	⌋
p(E)	30	#9	46'-8"	—
p1(E)	12	#8	47'-1"	—
s(E)	210	#6	15'-4"	⌋
s1(E)	44	#6	8'-8"	⌋
s2(E)	70	#5	8'-6"	⌋
s3(E)	92	#6	18'-6"	⌋
s4(E)	92	#6	13'-2"	⌋
t1(E)	98	#8	11'-8"	—
t2(E)	98	#5	11'-8"	—
u(E)	28	#5	12'-10"	⌋
u1(E)	12	#5	10'-10"	⌋
v13(E)	90	#8	9'-11"	—
v14(E)	6	#5	7'-7"	—
w(E)	48	#5	48'-8"	—
sp13(E)	6	#4	8'-3"	⌋
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	32,053		
Concrete Structures	Cu. Yd.	262.9		
Structure Excavation	Cu. Yd.	332.4		
Concrete Sealer	Sq. Ft.	552		

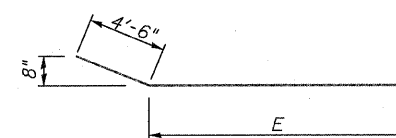
*Length is height of spiral.



K=2'-9" for Sp1(E) thru Sp6(E) and Sp9(E), sp10(E) & Sp13(E)

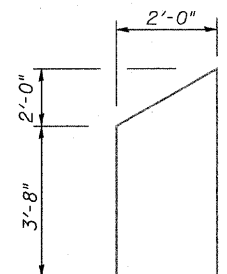
K=3'-3" for Sp7(E) and Sp8(E)

BARS sp1(E) THRU sp10(E) & sp13(E) (SPIRAL)

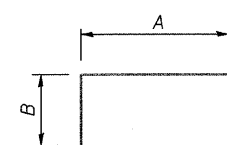


BARS p1(E) & p4(E) DIMENSIONS

BAR	E
p1(E)	42'-7"
p4(E)	7'-0"

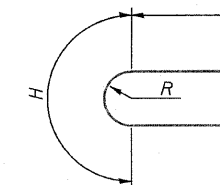


BAR u5(E)



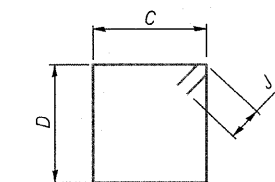
BARS s1(E) THRU s5(E), s7(E), s8(E), s10(E), s12(E), s13(E), s15(E), u1(E), u3(E), u4(E) & u7(E) DIMENSIONS

BAR	A	B
s1(E)	3'-6"	2'-7"
s2(E)	3'-6"	2'-6"
s3(E)	3'-6"	7'-7"
s4(E)	3'-6"	4'-10"
s5(E)	4'-0"	9'-10"
s7(E)	3'-0"	3'-1"
s8(E)	4'-4"	3'-0"
s10(E)	4'-0"	5'-10"
s12(E)	4'-0"	8'-10"
s13(E)	2'-0"	3'-10"
s15(E)	2'-2"	2'-6"
u1(E)	3'-6"	3'-8"
u3(E)	4'-0"	3'-8"
u4(E)	2'-0"	3'-8"
u7(E)	4'-4"	3'-8"



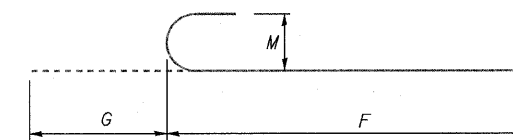
BARS u6(E) & u8(E) u6(E) & u8(E) DIMENSIONS

BAR	R	H
u6(E)	1'-9"	5'-6"
u8(E)	2'-0"	6'-3"
u6(E)	2'-2"	6'-8"
u8(E)	1'-1"	3'-4"



BARS s(E), s6(E), s9(E), s11(E) & s14(E) DIMENSIONS

BAR	C	D	J
s(E)	3'-6"	3'-6"	8"
s6(E)	3'-0"	3'-11"	5 1/2"
s9(E)	2'-0"	5'-3"	8"
s11(E)	2'-0"	5'-1"	8"
s14(E)	4'-4"	3'-6"	8"



BARS n(E), n1(E), n2(E), & n3(E) DIMENSIONS

BAR	F	G	M
n(E)	4'-9"	7"	5"
n1(E)	5'-9"	7"	5"
n2(E)	6'-4"	11"	8"
n3(E)	11'-0"	1'-7"	1'-2 3/4"

Notes:

1. Work this sheet with Sheets S35-S43.
2. Work this sheet with Sheet S20 for bar splicer details.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION PIERS 11-13 REINFORCEMENT DETAILS FAP 330 US 12/45 (MANNHEIM RD.) OVER 500 LINE RR & FRANKLIN AVE. STRUCTURE NO. 016-2815 SECTION 465 VB-R-1 STA. 183+33.30 DATE 7/2009	COOK COUNTY DRAWN BY DEV CHECKED BY CLS
NAME	DATE		

EARTH TECH | AECOM