

PIER 6 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	28	#5	46'-10"	—
h1(E)	12	#5	20'-6"	—
h2(E)	12	#5	16'-7"	—
h4(E)	48	#5	41'-6"	—
n(E)	6	#5	5'-4"	┌
n2(E)	90	#8	7'-3"	┌
p(E)	34	#9	46'-8"	—
p1(E)	12	#8	47'-1"	└
s4(E)	84	#6	13'-2"	□
s5(E)	84	#6	23'-2"	□
s8(E)	64	#6	10'-4"	□
s9(E)	94	#6	15'-10"	□
s13(E)	164	#6	9'-8"	□
s14(E)	170	#6	17'-0"	□
t(E)	90	#5	8'-8"	—
t3(E)	90	#8	8'-8"	—
u(E)	22	#5	12'-10"	┌
u4(E)	6	#5	9'-4"	┌
u5(E)	8	#5	12'-2"	┌
u6(E)	12	#5	14'-0"	┌
u7(E)	12	#5	11'-8"	┌
v6(E)	90	#8	14'-2"	—
v15(E)	6	#5	9'-10"	—
w3(E)	36	#5	44'-4"	—
* sp6(E)	6	#4	12'-5"	≡
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	37,288		
Concrete Structures	Cu. Yd.	302.8		
Structure Excavation	Cu. Yd.	179.1		
Furnishing Steel Piles HP14x73	Foot	1,750		
Driving Piles	Foot	1,750		
Test Pile Steel HP14x73	Each	1		
Concrete Sealer	Sq. Ft.	4,003		
Temporary Soil Retention System	Sq. Ft.	825		

PIER 7 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	10	#5	20'-6"	—
h5(E)	20	#5	29'-9"	—
h6(E)	10	#5	19'-0"	—
h7(E)	44	#5	48'-5"	—
n1(E)	6	#5	6'-4"	┌
n2(E)	126	#8	7'-3"	┌
p2(E)	38	#10	36'-5"	—
p3(E)	18	#8	49'-7"	—
p4(E)	18	#8	11'-6"	└
p5(E)	38	#10	24'-10"	—
s6(E)	496	#5	15'-0"	□
s7(E)	96	#5	9'-2"	□
s8(E)	78	#6	10'-4"	□
s10(E)	100	#7	15'-8"	□
s12(E)	100	#7	21'-8"	□
t(E)	104	#5	8'-8"	—
t3(E)	124	#8	8'-8"	—
u2(E)	32	#5	13'-7"	┌
u3(E)	12	#5	11'-4"	┌
v7(E)	126	#8	15'-11"	—
v16(E)	6	#5	8'-10"	—
w1(E)	36	#5	51'-6"	—
* sp7(E)	6	#4	14'-1"	≡
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	49,692		
Concrete Structures	Cu. Yd.	377.9		
Braced Excavation	Cu. Yd.	442.3		
Furnishing Steel Piles HP14x73	Foot	2,550		
Driving Piles	Foot	2,550		
Test Pile Steel HP14x73	Each	1		

PIER 8 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	10	#5	20'-6"	—
h8(E)	20	#5	28'-7"	—
h9(E)	10	#5	19'-8"	—
h10(E)	44	#5	50'-1"	—
n1(E)	6	#5	6'-4"	┌
n2(E)	126	#8	7'-3"	┌
p4(E)	18	#8	11'-6"	└
p5(E)	38	#10	24'-10"	—
p6(E)	38	#10	37'-11"	—
p7(E)	18	#8	51'-0"	—
s6(E)	508	#5	15'-0"	□
s7(E)	96	#5	9'-2"	□
s8(E)	82	#6	10'-4"	□
s10(E)	102	#7	15'-8"	□
s12(E)	102	#7	21'-8"	□
t(E)	108	#5	8'-8"	—
t3(E)	128	#8	8'-8"	—
u2(E)	32	#5	13'-7"	┌
u3(E)	12	#5	11'-4"	┌
v8(E)	126	#8	15'-5"	—
v16(E)	6	#5	8'-10"	—
w2(E)	36	#5	53'-1"	—
* sp8(E)	6	#4	13'-7"	≡
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	50,426		
Concrete Structures	Cu. Yd.	390.4		
Braced Excavation	Cu. Yd.	477.6		
Furnishing Steel Piles HP14x73	Foot	2,550		
Driving Piles	Foot	2,550		
Test Pile Steel HP14x73	Each	1		

PIER 9 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	28	#5	46'-10"	—
h1(E)	12	#5	20'-6"	—
h2(E)	12	#5	16'-7"	—
h4(E)	48	#5	41'-6"	—
n(E)	6	#5	5'-4"	┌
n2(E)	90	#8	7'-3"	┌
p(E)	34	#9	46'-8"	—
p1(E)	12	#8	47'-1"	└
s4(E)	84	#6	13'-2"	□
s5(E)	84	#6	23'-2"	□
s8(E)	64	#6	10'-4"	□
s11(E)	94	#6	11'-8"	□
s13(E)	164	#6	9'-8"	□
s14(E)	170	#6	17'-0"	□
t(E)	90	#5	8'-8"	—
t3(E)	90	#8	8'-8"	—
u(E)	22	#5	12'-10"	┌
u4(E)	6	#5	9'-4"	┌
u5(E)	8	#5	12'-2"	┌
u6(E)	12	#5	14'-0"	┌
u7(E)	12	#5	11'-8"	┌
v9(E)	90	#8	15'-0"	—
v15(E)	6	#5	9'-10"	—
w3(E)	36	#5	44'-4"	—
* sp9(E)	6	#4	12'-9"	≡
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	37,096		
Concrete Structures	Cu. Yd.	301.1		
Structure Excavation	Cu. Yd.	179.1		
Furnishing Steel Piles HP14x73	Foot	1,750		
Driving Piles	Foot	1,750		
Test Pile Steel HP14x73	Each	1		
Concrete Sealer	Sq. Ft.	4,622		

PIER 10 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	20	#5	46'-10"	—
h1(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"	┌
v10(E)	90	#8	18'-0"	—
v14(E)	6	#5	7'-7"	—
w(E)	48	#5	48'-8"	—
* sp10(E)	6	#4	16'-5"	≡
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	34,852		
Concrete Structures	Cu. Yd.	275.8		
Structure Excavation	Cu. Yd.	302.2		

*Length is height of spiral.

Notes:

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

EARTH TECH | AECOM

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION PIERS 6-10 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		