

**PIER 5  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h20(E)	22	#5	36'-0"	—
h21(E)	10	#5	34'-8"	—
h22(E)	8	#5	8'-8"	—
h28(E)	4	#5	35'-3"	—
n20(E)	18	#9	13'-10"	┌
n21(E)	100	#9	14'-10"	┌
p20(E)	5	#9	41'-6"	—
p21(E)	11	#10	34'-8"	—
p22(E)	5	#9	28'-2"	—
s20(E)	22	#5	15'-2"	U
s21(E)	70	#5	14'-1"	U
s22(E)	148	#5	8'-10"	U
s23(E)	18	#5	12'-0"	U
s25(E)	138	#5	4'-10"	U
s31(E)	42	#5	9'-10"	U
t20(E)	60	#9	23'-6"	┌
t21(E)	46	#6	16'-6"	—
u20(E)	10	#6	12'-8"	┌
u30(E)	4	#6	16'-2"	┌
u31(E)	4	#6	15'-8"	┌
v30(E)	84	#9	15'-0"	—
v31(E)	84	#9	18'-3"	—
v32(E)	10	#6	9'-9"	—
v40(E)	12	#6	12'-3"	✓
w20(E)	36	#6	44'-6"	—
Concrete Structures		Cu. Yd.	299.6	
Reinforcement Bars, Epoxy Coated		Pound	32,700	
Test Pile Steel HP 14x73		Each	1	
Furn. Steel Piles HP 14x73		Foot	1302	
Driving Piles		Foot	1302	
Anti-Graffiti Coating		Sq. Ft.	2251	
Seal Coat Concrete		Cu. Yd.	122.3	
Cofferdam (Type 2) (Location - 5)		Each	1	
Pile Shoes		Each	32	

**PIER 6  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h21(E)	10	#5	34'-8"	—
h22(E)	8	#5	8'-8"	—
h28(E)	4	#5	35'-3"	—
n20(E)	84	#9	13'-10"	┌
p20(E)	5	#9	41'-6"	—
p21(E)	11	#10	34'-8"	—
p22(E)	5	#9	28'-2"	—
s21(E)	102	#5	14'-1"	┌
s22(E)	148	#5	8'-10"	┌
s31(E)	42	#5	9'-10"	┌
t22(E)	46	#6	13'-6"	┌
t23(E)	39	#6	8'-6"	—
u20(E)	10	#6	12'-8"	┌
u30(E)	4	#6	16'-2"	┌
u31(E)	4	#6	15'-8"	┌
v24(E)	84	#9	26'-6"	—
v40(E)	12	#6	12'-3"	✓
w20(E)	20	#6	37'-6"	—
Structure Excavation		Cu. Yd.	85	
Concrete Structures		Cu. Yd.	152.6	
Reinforcement Bars, Epoxy Coated		Pound	21,400	
Test Pile Steel HP 12x53		Each	1	
Furn. Steel Piles HP 12x53		Foot	702	
Driving Piles		Foot	702	
Anti-Graffiti Coating		Sq. Ft.	1823	
Pile Shoes		Each	14	

**PIER 7  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h21(E)	10	#5	34'-8"	—
h22(E)	8	#5	8'-8"	—
h28(E)	4	#5	35'-3"	—
n20(E)	84	#9	13'-10"	┌
p20(E)	5	#9	41'-6"	—
p21(E)	11	#10	34'-8"	—
p22(E)	5	#9	28'-2"	—
s21(E)	86	#5	14'-1"	┌
s22(E)	148	#5	8'-10"	┌
s31(E)	42	#5	9'-10"	┌
t22(E)	46	#6	13'-6"	┌
t23(E)	39	#6	8'-6"	—
u20(E)	10	#6	12'-8"	┌
u30(E)	4	#6	16'-2"	┌
u31(E)	4	#6	15'-8"	┌
v25(E)	84	#9	22'-8"	—
v40(E)	12	#6	12'-3"	✓
w20(E)	20	#6	37'-6"	—
Structure Excavation		Cu. Yd.	76	
Concrete Structures		Cu. Yd.	139.9	
Reinforcement Bars, Epoxy Coated		Pound	20,100	
Test Pile Steel HP 12x53		Each	1	
Furn. Steel Piles HP 12x53		Foot	598	
Driving Piles		Foot	598	
Anti-Graffiti Coating		Sq. Ft.	1588	
Pile Shoes		Each	14	

**NOTES:**

1. See sheet S41 thru S43 for pier plan and elevation.
2. See sheet S44 for pier sections.
3. The entire surface of the pier above the footing shall be coated with Anti-Graffiti Coating.

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PLOT DATE = 11/9/2011  
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REVISED -



**CITY OF ST. CHARLES**

**PIERS 5-7 BILL OF MATERIALS  
STRUCTURE NO. 045-6024 RED GATE ROAD OVER THE FOX RIVER**

SHEET NO. S47 OF S56 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	269
				CONTRACT NO. 63650
ILLINOIS FED. AID PROJECT				