

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361	06-00214-20-BR	KANE	320	195
STA. 511+80.00		TO STA. 609+14.92		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
SHEET NO. S90 OF S108				

PIER 7 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₇₁ (E)	4	# 6	12'-8"	—
h ₇₂ (E)	2	# 6	8'-3"	—
p ₇₁ (E)	6	# 5	13'-2"	∩
p ₇₂ (E)	6	# 8	14'-6"	⌒
s ₇₁ (E)	5	# 4	12'-5"	□
s ₇₂ (E)	2	# 4	12'-1"	□
s ₇₃ (E)	2	# 4	11'-7"	□
s ₇₄ (E)	2	# 4	11'-1"	□
s ₇₅ (E)	2	# 4	10'-7"	□
s ₇₆ (E)	2	# 4	10'-1"	□
s ₇₇ (E)	2	# 4	9'-7"	□
sp ₇₁ (E)*	1	# 4	71'-10"	
u ₇₁ (E)	6	# 4	5'-5"	□
v ₇₁ (E)	16	# 10	39'-5"	⌒
v ₇₂ (E)	16	# 8	40'-0"	—
Concrete Structures		Cu. Yd.	5	
Reinforcement Bars		Pound	1,710	
Reinforcement Bars, Epoxy Coated		Pound	4,330	
Structure Excavation		Cu. Yd.	-	
Drilled Shaft In Soil		Cu. Yd.	19	
Concrete Sealer		Sq. Ft.	122	

PIER 8 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₈₁ (E)	4	# 6	12'-8"	—
h ₈₂ (E)	2	# 6	8'-3"	—
p ₈₁ (E)	6	# 5	13'-2"	∩
p ₈₂ (E)	6	# 8	14'-6"	⌒
s ₈₁ (E)	5	# 4	12'-5"	□
s ₈₂ (E)	2	# 4	12'-1"	□
s ₈₃ (E)	2	# 4	11'-7"	□
s ₈₄ (E)	2	# 4	11'-1"	□
s ₈₅ (E)	2	# 4	10'-7"	□
s ₈₆ (E)	2	# 4	10'-1"	□
s ₈₇ (E)	2	# 4	9'-7"	□
sp ₈₁ (E)*	1	# 4	70'-5"	
u ₈₁ (E)	6	# 4	5'-5"	□
v ₈₁ (E)	16	# 10	38'-0"	⌒
v ₈₂ (E)	16	# 8	40'-0"	—
Concrete Structures		Cu. Yd.	5	
Reinforcement Bars		Pound	1,710	
Reinforcement Bars, Epoxy Coated		Pound	4,210	
Structure Excavation		Cu. Yd.	-	
Drilled Shaft In Soil		Cu. Yd.	19	

PIER 9 BILL OF MATERIAL

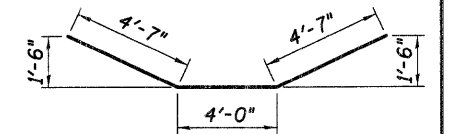
Bar	No.	Size	Length	Shape
h ₉₁ (E)	4	# 6	12'-8"	—
h ₉₂ (E)	2	# 6	8'-3"	—
p ₉₁ (E)	6	# 5	13'-2"	∩
p ₉₂ (E)	6	# 8	14'-6"	⌒
s ₉₁ (E)	5	# 4	12'-5"	□
s ₉₂ (E)	2	# 4	12'-1"	□
s ₉₃ (E)	2	# 4	11'-7"	□
s ₉₄ (E)	2	# 4	11'-1"	□
s ₉₅ (E)	2	# 4	10'-7"	□
s ₉₆ (E)	2	# 4	10'-1"	□
s ₉₇ (E)	2	# 4	9'-7"	□
sp ₉₁ (E)*	1	# 4	69'-0"	
u ₉₁ (E)	6	# 4	5'-5"	□
v ₉₁ (E)	16	# 10	36'-7"	⌒
v ₉₂ (E)	16	# 8	40'-0"	—
Concrete Structures		Cu. Yd.	5	
Reinforcement Bars		Pound	1,710	
Reinforcement Bars, Epoxy Coated		Pound	4,090	
Structure Excavation		Cu. Yd.	-	
Drilled Shaft In Soil		Cu. Yd.	18	
Concrete Sealer		Sq. Ft.	122	

PIER 10 BILL OF MATERIAL

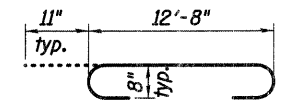
Bar	No.	Size	Length	Shape
h ₁₀₁ (E)	4	# 6	12'-8"	—
h ₁₀₂ (E)	2	# 6	8'-3"	—
p ₁₀₁ (E)	6	# 5	13'-2"	∩
p ₁₀₂ (E)	6	# 8	14'-6"	⌒
s ₁₀₁ (E)	5	# 4	12'-5"	□
s ₁₀₂ (E)	2	# 4	12'-1"	□
s ₁₀₃ (E)	2	# 4	11'-7"	□
s ₁₀₄ (E)	2	# 4	11'-1"	□
s ₁₀₅ (E)	2	# 4	10'-7"	□
s ₁₀₆ (E)	2	# 4	10'-1"	□
s ₁₀₇ (E)	2	# 4	9'-7"	□
sp ₁₀₁ (E)*	1	# 4	69'-6"	
u ₁₀₁ (E)	6	# 4	5'-5"	□
v ₁₀₁ (E)	16	# 10	37'-1"	⌒
v ₁₀₂ (E)	16	# 8	40'-0"	—
Concrete Structures		Cu. Yd.	4	
Reinforcement Bars		Pound	1,710	
Reinforcement Bars, Epoxy Coated		Pound	4,130	
Structure Excavation		Cu. Yd.	-	
Drilled Shaft In Soil		Cu. Yd.	18	

PIER 11 BILL OF MATERIAL

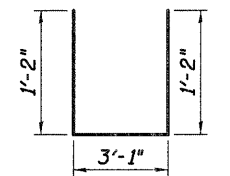
Bar	No.	Size	Length	Shape
h ₁₁₁ (E)	4	# 6	12'-8"	—
h ₁₁₂ (E)	2	# 6	8'-3"	—
p ₁₁₁ (E)	6	# 5	13'-2"	∩
p ₁₁₂ (E)	6	# 8	14'-6"	⌒
s ₁₁₁ (E)	5	# 4	12'-5"	□
s ₁₁₂ (E)	2	# 4	12'-1"	□
s ₁₁₃ (E)	2	# 4	11'-7"	□
s ₁₁₄ (E)	2	# 4	11'-1"	□
s ₁₁₅ (E)	2	# 4	10'-7"	□
s ₁₁₆ (E)	2	# 4	10'-1"	□
s ₁₁₇ (E)	2	# 4	9'-7"	□
sp ₁₁₁ (E)*	1	# 4	68'-1"	
u ₁₁₁ (E)	6	# 4	5'-5"	□
v ₁₁₁ (E)	16	# 10	35'-8"	⌒
v ₁₁₂ (E)	16	# 8	40'-0"	—
Concrete Structures		Cu. Yd.	4	
Reinforcement Bars		Pound	1,710	
Reinforcement Bars, Epoxy Coated		Pound	4,020	
Structure Excavation		Cu. Yd.	5	
Drilled Shaft In Soil		Cu. Yd.	18	
Concrete Sealer		Sq. Ft.	122	



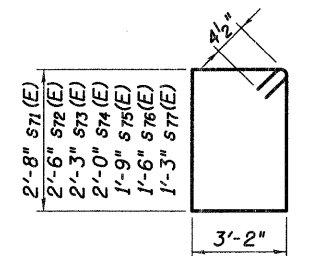
BAR D₇₁(E)



BAR D₇₂(E)



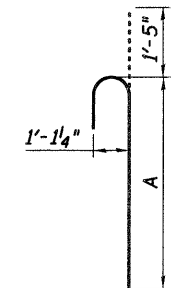
BARS U₇₁(E)



BARS S₇₁(E) thru S₇₇(E)

* length is height of spiral, provide minimum lap length of 3'-0"

Bar	A
v ₇₇ (E)	38'-0"
v ₇₈ (E)	36'-7"
v ₇₉ (E)	35'-2"
v ₈₀ (E)	35'-8"
v ₈₁ (E)	34'-3"



BAR V₇₇(E) thru V₈₁(E)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MUP RAMP -
PIER DETAILS III
 STEARNS ROAD PUBLIC
 OVER THE FOX RIVER WATERS
 STRUCTURE NUMBER 045-3166
 KANE COUNTY FAP 361 SECTION 06-00214-20-BR
 STATION 571+42.96 DESIGNED: DAP DRAWN: SGW
 DATE: JANUARY 16, 2009 CHECKED: KPZ CHECKED: KPZ

Baker
 Baker Engineering, Inc.

h:\13005\3.0 phase 11 deliverables\3.3 structure\drawings\Final\045-3164 MUP Ramp Piers.3.dgn
 1/15/2009