

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361	06-00214-20-BR	KANE	320	194
STA. 511+80.00		TO STA. 609+14.92		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
SHEET NO. 589 OF 5108				

**PIER 1 BILL OF MATERIAL**

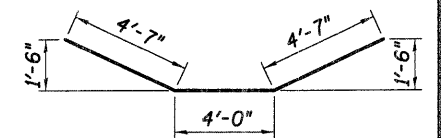
Bar	No.	Size	Length	Shape
h <sub>71</sub> (E)	4	# 6	12'-8"	—
h <sub>72</sub> (E)	2	# 6	8'-3"	—
p <sub>71</sub> (E)	6	# 5	13'-2"	⌒
p <sub>72</sub> (E)	6	# 8	14'-6"	⌒
s <sub>71</sub> (E)	5	# 4	12'-5"	□
s <sub>72</sub> (E)	2	# 4	12'-1"	□
s <sub>73</sub> (E)	2	# 4	11'-7"	□
s <sub>74</sub> (E)	2	# 4	11'-1"	□
s <sub>75</sub> (E)	2	# 4	10'-7"	□
s <sub>76</sub> (E)	2	# 4	10'-1"	□
s <sub>77</sub> (E)	2	# 4	9'-7"	□
sp <sub>71</sub> (E)*	1	# 4	67'-3"	⌚
u <sub>71</sub> (E)	6	# 4	5'-5"	□
v <sub>71</sub> (E)	16	# 10	34'-10"	⌒
v <sub>72</sub>	16	# 8	40'-0"	—
Concrete Structures			Cu. Yd.	4
Reinforcement Bars			Pound	1,710
Reinforcement Bars, Epoxy Coated			Pound	3,950
Structure Excavation			Cu. Yd.	4
Drilled Shaft In Soil			Cu. Yd.	18
Concrete Sealer			Sq. Ft.	122

**PIER 2 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h <sub>71</sub> (E)	4	# 6	12'-8"	—
h <sub>72</sub> (E)	2	# 6	8'-3"	—
p <sub>71</sub> (E)	6	# 5	13'-2"	⌒
p <sub>72</sub> (E)	6	# 8	14'-6"	⌒
s <sub>71</sub> (E)	5	# 4	12'-5"	□
s <sub>72</sub> (E)	2	# 4	12'-1"	□
s <sub>73</sub> (E)	2	# 4	11'-7"	□
s <sub>74</sub> (E)	2	# 4	11'-1"	□
s <sub>75</sub> (E)	2	# 4	10'-7"	□
s <sub>76</sub> (E)	2	# 4	10'-1"	□
s <sub>77</sub> (E)	2	# 4	9'-7"	□
sp <sub>72</sub> (E)*	1	# 4	70'-10"	⌚
u <sub>71</sub> (E)	6	# 4	5'-5"	□
v <sub>72</sub> (E)	16	# 10	38'-5"	⌒
v <sub>72</sub>	16	# 8	40'-0"	—
Concrete Structures			Cu. Yd.	5
Reinforcement Bars			Pound	1,710
Reinforcement Bars, Epoxy Coated			Pound	4,240
Structure Excavation			Cu. Yd.	-
Drilled Shaft In Soil			Cu. Yd.	18

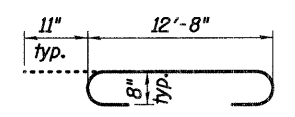
**PIER 3 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h <sub>71</sub> (E)	4	# 6	12'-8"	—
h <sub>72</sub> (E)	2	# 6	8'-3"	—
p <sub>71</sub> (E)	6	# 5	13'-2"	⌒
p <sub>72</sub> (E)	6	# 8	14'-6"	⌒
s <sub>71</sub> (E)	5	# 4	12'-5"	□
s <sub>72</sub> (E)	2	# 4	12'-1"	□
s <sub>73</sub> (E)	2	# 4	11'-7"	□
s <sub>74</sub> (E)	2	# 4	11'-1"	□
s <sub>75</sub> (E)	2	# 4	10'-7"	□
s <sub>76</sub> (E)	2	# 4	10'-1"	□
s <sub>77</sub> (E)	2	# 4	9'-7"	□
sp <sub>73</sub> (E)*	1	# 4	72'-4"	⌚
u <sub>71</sub> (E)	6	# 4	5'-5"	□
v <sub>73</sub> (E)	16	# 10	39'-11"	⌒
v <sub>72</sub>	16	# 8	40'-0"	—
Concrete Structures			Cu. Yd.	5
Reinforcement Bars			Pound	1,710
Reinforcement Bars, Epoxy Coated			Pound	4,370
Structure Excavation			Cu. Yd.	-
Drilled Shaft In Soil			Cu. Yd.	18
Concrete Sealer			Sq. Ft.	122

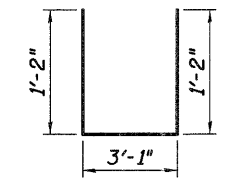


\* length is height of spiral, provide minimum lap length of 3'-0"

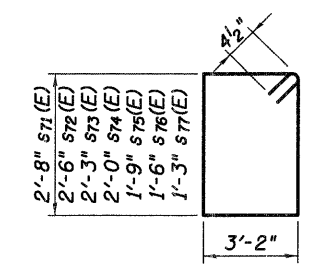
**BAR D<sub>71</sub>(E)**



**BAR D<sub>72</sub>(E)**



**BARS U<sub>71</sub>(E)**



**BARS S<sub>71</sub>(E) thru S<sub>77</sub>(E)**

**PIER 4 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h <sub>71</sub> (E)	4	# 6	12'-8"	—
h <sub>72</sub> (E)	2	# 6	8'-3"	—
p <sub>71</sub> (E)	6	# 5	13'-2"	⌒
p <sub>72</sub> (E)	6	# 8	14'-6"	⌒
s <sub>71</sub> (E)	5	# 4	12'-5"	□
s <sub>72</sub> (E)	2	# 4	12'-1"	□
s <sub>73</sub> (E)	2	# 4	11'-7"	□
s <sub>74</sub> (E)	2	# 4	11'-1"	□
s <sub>75</sub> (E)	2	# 4	10'-7"	□
s <sub>76</sub> (E)	2	# 4	10'-1"	□
s <sub>77</sub> (E)	2	# 4	9'-7"	□
sp <sub>74</sub> (E)*	1	# 4	73'-10"	⌚
u <sub>71</sub> (E)	6	# 4	5'-5"	□
v <sub>74</sub> (E)	16	# 10	41'-5"	⌒
v <sub>72</sub>	16	# 8	40'-0"	—
Concrete Structures			Cu. Yd.	5
Reinforcement Bars			Pound	1,710
Reinforcement Bars, Epoxy Coated			Pound	4,490
Structure Excavation			Cu. Yd.	-
Drilled Shaft In Soil			Cu. Yd.	18

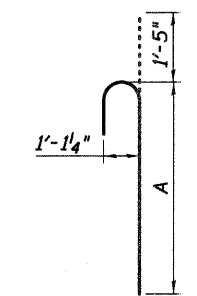
**PIER 5 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h <sub>71</sub> (E)	4	# 6	12'-8"	—
h <sub>72</sub> (E)	2	# 6	8'-3"	—
p <sub>71</sub> (E)	6	# 5	13'-2"	⌒
p <sub>72</sub> (E)	6	# 8	14'-6"	⌒
s <sub>71</sub> (E)	5	# 4	12'-5"	□
s <sub>72</sub> (E)	2	# 4	12'-1"	□
s <sub>73</sub> (E)	2	# 4	11'-7"	□
s <sub>74</sub> (E)	2	# 4	11'-1"	□
s <sub>75</sub> (E)	2	# 4	10'-7"	□
s <sub>76</sub> (E)	2	# 4	10'-1"	□
s <sub>77</sub> (E)	2	# 4	9'-7"	□
sp <sub>75</sub> (E)*	1	# 4	72'-10"	⌚
u <sub>71</sub> (E)	6	# 4	5'-5"	□
v <sub>75</sub> (E)	16	# 10	40'-5"	⌒
v <sub>72</sub>	16	# 8	40'-0"	—
Concrete Structures			Cu. Yd.	6
Reinforcement Bars			Pound	1,710
Reinforcement Bars, Epoxy Coated			Pound	4,410
Structure Excavation			Cu. Yd.	-
Drilled Shaft In Soil			Cu. Yd.	19

**PIER 6 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h <sub>71</sub> (E)	4	# 6	12'-8"	—
h <sub>72</sub> (E)	2	# 6	8'-3"	—
p <sub>71</sub> (E)	6	# 5	13'-2"	⌒
p <sub>72</sub> (E)	6	# 8	14'-6"	⌒
s <sub>71</sub> (E)	5	# 4	12'-5"	□
s <sub>72</sub> (E)	2	# 4	12'-1"	□
s <sub>73</sub> (E)	2	# 4	11'-7"	□
s <sub>74</sub> (E)	2	# 4	11'-1"	□
s <sub>75</sub> (E)	2	# 4	10'-7"	□
s <sub>76</sub> (E)	2	# 4	10'-1"	□
s <sub>77</sub> (E)	2	# 4	9'-7"	□
sp <sub>76</sub> (E)*	1	# 4	73'-2"	⌚
u <sub>71</sub> (E)	6	# 4	5'-5"	□
v <sub>76</sub> (E)	16	# 10	40'-9"	⌒
v <sub>72</sub>	16	# 8	40'-0"	—
Concrete Structures			Cu. Yd.	6
Reinforcement Bars			Pound	1,710
Reinforcement Bars, Epoxy Coated			Pound	4,440
Structure Excavation			Cu. Yd.	-
Drilled Shaft In Soil			Cu. Yd.	19

Bar	A
v <sub>71</sub> (E)	33'-5"
v <sub>72</sub> (E)	37'-0"
v <sub>73</sub> (E)	38'-6"
v <sub>74</sub> (E)	40'-0"
v <sub>75</sub> (E)	39'-0"
v <sub>76</sub> (E)	39'-4"



**BAR V<sub>71</sub>(E) thru V<sub>76</sub>(E)**

REVISIONS	
NAME	DATE

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



h:\13005\3.0 phase II deliverables\3.3 structure\drawings\Final\045-3164 MUP Ramp Piers-2.dgn  
 1/15/2009