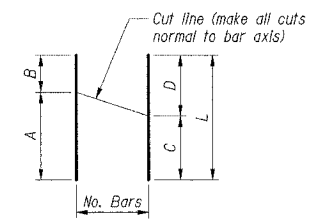


BAR CUTTING DIAGRAM

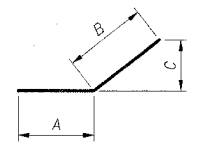


Bar	A	B	C	D	L	N bars
h17(E)	12'-9"	18'-8"	15'-1 1/2"	16'-3 1/2"	31'-5"	3
h18(E)	18'-6"	15'-8"	15'-8"	18'-6"	34'-2"	7
h15(E)	11'-6"	17'-0"	17'-0"	11'-6"	28'-6"	15
w2(E)	16'-6"	4'-6"	4'-6"	16'-6"	21'-0"	8

Bars h17(E), h18(E), h15(E) & w2(E)

Bar	A	B
d11(E)	0'-6"	2'-6"
d12(E)	0'-6"	2'-6"
h19(E)	2'-9"	3'-0"
h20(E)	2'-2"	3'-0"
h21(E)	1'-11"	3'-0"
h22(E)	1'-9"	3'-0"
h30(E)	0'-10"	3'-2"
h33(E)	2'-11"	2'-11"
n1(E)	1'-10"	14'-0"
w10(E)	2'-3"	5'-6"

Bars d11(E), d12(E), h19(E) thru h22(E), h30(E), h33(E), n1(E), w10(E)



Bar	A	B	C
h24(E)	6'-0"	3'-0"	1'-8 1/2"
h26(E)	3'-5"	3'-5"	2'-11"
h32(E)	4'-0"	4'-0"	2'-3 1/2"
v28(E)	4'-2"	2'-5"	1'-8"

Bars h24(E), h26(E), h32(E) & v28(E)

Bar	A
u8(E)	4'-0"
u9(E)	3'-3"
u10(E)	2'-8"
u11(E)	4'-5"
u12(E)	3'-7"
u13(E)	1'-7"

Bars u8(E) thru u13(E)

Bar	A	B	C
n4(E)	13'-7"	1'-10"	2 7/8"
n5(E)	12'-6"	1'-10"	1 1/8"
n6(E)	13'-0"	1'-7"	1 5/8"
n7(E)	13'-0"	1'-10"	1 1/8"

Bars n4(E), n5(E), n6(E) & n7(E)

Bar	A
u1(E)	2'-4"
u2(E)	3'-2"
u3(E)	4'-0"
u4(E)	4'-11"
u5(E)	1'-9"
u6(E)	2'-8"
u7(E)	3'-6"

Bars u1(E) thru u7(E)

NORTH ABUTMENT BAR LIST

Bar	No.		Size	Length	Shape
	Stage I	Stage II			
d11(E)	66	80	#5	3'-0"	
d12(E)	66	80	#4	3'-0"	
d13(E)	66	80	#5	7'-5"	
e11(E)	6	6	#4	31'-9"	
e12(E)	2	2	#8	34'-7"	
e13(E)	2	2	#5	32'-3"	
e14(E)		6	#4	11'-0"	
e15(E)		2	#8	11'-0"	
e16(E)		2	#5	11'-0"	
e17(E)	6		#4	21'-2"	
e18(E)	2		#8	21'-2"	
e19(E)	2		#5	21'-2"	
e20(E)	6		#4	4'-9"	
e21(E)	2		#8	4'-9"	
e22(E)	2		#5	4'-9"	
e23(E)		6	#4	29'-8"	
e24(E)		2	#8	29'-8"	
e25(E)		2	#5	29'-8"	
h1(E)	36	8	#5	26'-9"	
h2(E)	10	8	#5	25'-11"	
h3(E)		98	#5	20'-2"	
h4(E)		30	#5	17'-7"	
h5(E)	6	6	#5	8'-4"	
h6(E)	6		#5	13'-4"	
h7(E)	8		#5	9'-10"	
h8(E)		31	#5	15'-8"	
h9(E)	2		#6	23'-8"	
h10(E)	1		#6	24'-7"	
h11(E)	2		#6	25'-7"	
h12(E)		10	#6	20'-7"	
h13(E)		10	#6	25'-7"	
h14(E)	52	100	#5	33'-1"	
h15(E)		54	#5	29'-8"	
h16(E)		51	#5	13'-0"	
h17(E)		3	#5	31'-5"	
h18(E)		7	#5	34'-2"	
h19(E)	4	12	#5	5'-9"	
h20(E)	8	12	#5	5'-2"	
h21(E)	8	10	#5	4'-11"	
h22(E)	4	6	#5	4'-9"	
h23(E)		12	#5	11'-0"	
h24(E)		13	#5	9'-0"	
h25(E)	52		#5	21'-2"	
h26(E)	19		#5	6'-10"	
h27(E)	19		#5	15'-6"	
h28(E)	6		#5	9'-3"	
h29(E)	4		#5	7'-11"	
h30(E)	2		#5	4'-0"	
h31(E)	2		#5	4'-10"	
h32(E)		34	#5	8'-0"	
h33(E)		6	#5	5'-10"	
n1(E)	22	108	#10	15'-10"	
n2(E)	40	97	#5	3'-6"	
n3(E)	55	44	#5	4'-4"	
n4(E)		18	#10	15'-5"	
n5(E)		92	#10	14'-4"	
n6(E)	62		#9	14'-7"	
n7(E)	17		#10	14'-10"	
h1(E)	64	62	#8	17'-8"	
h2(E)	50	61	#8	16'-8"	
h3(E)	79		#8	19'-5"	
h4(E)	15		#8	28'-6"	
h5(E)		23	#8	20'-8"	
h6(E)		17	#10	20'-8"	
h7(E)		25	#8	22'-8"	
h8(E)		19	#10	22'-8"	
h9(E)		35	#10	17'-0"	
h10(E)		15	#8	19'-8"	
h11(E)		22	#9	19'-8"	
h12(E)		91	#9	16'-8"	
h13(E)		12	#6	16'-8"	

NORTH ABUTMENT BAR LIST (continued)

Bar	No.		Size	Length	Shape
	Stage I	Stage II			
h18(E)		2	#8	17'-1"	
u1(E)	12		#5	11'-6"	
u2(E)	10	6	#5	12'-4"	
u3(E)		16	#5	13'-2"	
u4(E)		16	#5	14'-1"	
u5(E)		16	#5	10'-11"	
u6(E)		16	#5	11'-10"	
u7(E)		13	#5	12'-8"	
u8(E)	1	1	#5	10'-0"	
u9(E)		1	#5	9'-3"	
u10(E)	1	1	#5	8'-8"	
u11(E)	6	5	#5	10'-5"	
u12(E)	9	20	#5	9'-7"	
u13(E)	2	4	#5	7'-7"	
v1(E)		10	#5	18'-10"	
v2(E)		12	#5	19'-3"	
v3(E)		11	#5	20'-1"	
v4(E)		16	#5	20'-11"	
v5(E)		17	#5	21'-10"	
v6(E)	8		#5	24'-0"	
v7(E)	30	85	#5	6'-6"	
v8(E)	22	87	#5	5'-9"	
v9(E)	22	87	#5	2'-6"	
v10(E)	22	87	#5	4'-7"	
v11(E)	22	38	#8	14'-8"	
v12(E)		17	#5	22'-8"	
v13(E)		16	#5	23'-7"	
v14(E)		15	#5	24'-5"	
v15(E)		70	#8	19'-8"	
v16(E)	79		#7	12'-3"	
v17(E)	48	2	#5	12'-10"	
v18(E)	33		#5	13'-6"	
v19(E)	31		#5	24'-2"	
v20(E)	22		#5	25'-1"	
v21(E)		46	#5	14'-4"	
v22(E)		47	#5	15'-2"	
v23(E)		35	#5	16'-3"	
v24(E)		21	#5	26'-0"	
v25(E)		21	#5	26'-8"	
v26(E)		92	#8	13'-4"	
v27(E)		17	#8	15'-5"	
v28(E)		3	#5	6'-7"	
w1(E)		148	#5	25'-0"	
w2(E)		8	#5	21'-0"	
w3(E)	30		#5	31'-1"	
w4(E)	14		#5	38'-2"	
w5(E)	6		#5	9'-1"	
w6(E)	72		#5	27'-3"	
w7(E)		42	#5	15'-5"	
w8(E)		72	#5	31'-5"	
w9(E)		18	#5	15'-2"	
w10(E)		18	#5	7'-9"	

- Notes:**
- Reinforcement bars designated (E) shall be epoxy coated.
 - For Retaining Wall Elevations and Sections, see Shts. S-035 & S-036.
 - For Abutment Wall Elevations, Sections and Details see Shts. S-033, S-034, S-037 & S-038.
 - For bars 14(E), 16(E), 116(E) & 117(E), see Sht. S-043.

BILL OF MATERIAL

Item	Unit	Stage I	Stage II	Total
Concrete Structures	Cu yd	353	862	1215
Reinforcement Bars, Epoxy Coated	lb	34,120	75,140	109,260
Protective Coat	Sq yd			458
Bridge Seat Sealer	Sq ft			335
Structure Excavation	Cu yd			2486
Geocomposite Wall Drain	Sq yd			634
Porous Granular Embankment (Special)	Cu yd			849
Pipe Underdrains For Structures 6"	Ft			307
Sub-base Granular Material, Type C 6"	Sq yd			467

SHT. S-039

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 57 (INTERSTATE 57)
 I-57 NB OVER WB CONNECTOR
 SN 016-0072 OLD, SN 016-2852 NEW
 STA. 238+73.54
 COOK COUNTY, SECTION (1516.1, 1717, & 1818) R-4
 NORTH ABUTMENT DETAILS III
 & BILL OF MATERIAL

DATE: 03/07/06
 DRAWN BY: FD
 CHECKED BY: TCU

TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 205 N. MICHIGAN AVE., CHICAGO, IL 60601
 TELEPHONE 312.416.0000

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 UDEC
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