



BILL OF MATERIAL I

Bar No.	Size	Length (m)	Shape
h100 (E)	2,021	#15	7.84
h101 (E)	1,069	#15	7.10
h102 (E)	63	#15	5.00
h103 (E)	1	#15	1.96
h104 (E)	604	#20	2.86
h105 (E)	13	#15	7.80
h106 (E)	32	#15	0.60
h107 (E)	25	#15	5.56
h108 (E)	123	#15	2.30
h109 (E)	56	#15	1.10
h110 (E)	1	#15	1.85
h111 (E)	8	#15	0.80
n100 (E)	291	#15	2.92
n101 (E)	852	#25	5.69
n102 (E)	375	#15	3.64
n103 (E)	795	#25	5.49
n104 (E)	150	#15	2.60
n105 (E)	246	#25	3.20
n106 (E)	225	#15	2.49
n107 (E)	333	#20	2.55
n108 (E)	865	#15	2.47
n109 (E)	1,276	#20	2.53
t100 (E)	840	#30	4.90
t101 (E)	881	#20	4.90
t102 (E)	362	#25	3.50
t103 (E)	1,824	#20	4.50
t104 (E)	398	#20	3.50
t105 (E)	54	#25	4.50
v100 (E)	291	#15	7.88
v101 (E)	432	#25	5.52
v102 (E)	375	#15	6.22
v103 (E)	405	#25	4.58
v104 (E)	150	#15	5.09
v105 (E)	246	#20	3.72
v106 (E)	225	#15	3.68
v107 (E)	333	#15	2.61
v108 (E)	872	#15	3.09
v109 (E)	1,287	#15	2.02
v110 (E)	1,083	#20	1.94
v111 (E)	1,620	#20	1.79
v112 (E)	15	#20	3.06
v113 (E)	906	#20	2.39
v114 (E)	8	#15	0.60
w100 (E)	360	#15	9.00
w101 (E)	180	#15	9.14
w102 (E)	608	#15	8.85
w103 (E)	130	#15	9.28
w104 (E)	208	#15	8.65
w105 (E)	352	#15	8.43
w106 (E)	32	#15	7.10
w107 (E)	128	#15	7.84
w108 (E)	32	#15	3.64
w109 (E)	18	#15	2.65
w110 (E)	31	#15	2.79
w111 (E)	31	#15	2.14
w112 (E)	13	#15	2.93
w113 (E)	13	#15	2.34
w114 (E)	29	#15	2.51
w115 (E)	29	#15	1.74
w116 (E)	32	#15	8.56
w117 (E)	64	#15	7.47
w118 (E)	96	#15	7.03
Test Pile Metal Shells	Each	8	
Structure Excavation	m ³	6,404	
Concrete Structures	m ³	3,456.0	
Protective Coat	m ²	3,979	
Reinforcement Bars, Epoxy Coated	kg	246,500	
Furnishing Metal Pile Shells, 356 φ	m	10,157.0	
Driving and Filling Shells	m	10,157.0	
Geocomposite Wall Drain	m ²	2,354	
Pipe Underdrains for Structures 150 mm	m	555.5	
Overhead Sign Structure - Span	Each	2	
Anchor Rod Assembly	Each	153	
Noise Abatement Wall Anchor Rod Assembly	Each	153	

BAR DIMENSIONS

Bar	A	B
n100 (E)	2.66m	260
n101 (E)	5.29m	400
n102 (E)	3.38m	260
n103 (E)	5.09m	400
n104 (E)	2.34m	260
n105 (E)	2.80m	400
n106 (E)	2.23m	260
n107 (E)	2.23m	320
n108 (E)	2.21m	260
n109 (E)	2.21m	320
w109 (E)	970	1.37m
w110 (E)	1.07m	1.51m
w111 (E)	1.07m	---
w112 (E)	1.17m	1.65m
w113 (E)	1.17m	---
w114 (E)	870	1.23m
w115 (E)	870	---

DESIGNED	BHS
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP

PILE DATA
 Type - 356 φ Metal Shell
 Capacity - 500 kN
 Est. Length - 13.8 m
 No. Req'd - 736
 Test Piles - 8

MINIMUM BAR LAPS
 #15 bars = 640
 #20 bars = 790
 #25 bars = 1320

REVISED 10-22-04 KFA
 REVISED 05-25-04 KFA

NOTES:
 See Sheet S-23 for Rustication details.
 Stations are referenced to @ I-80/94.
 Reinforcement bars designated (E) shall be epoxy coated.
 All dimensions are in millimeters (mm) except as noted.
 See Typical Section on S-2 for Drainage Details and Protective Coat Limits.

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 80/94 AND U.S. ROUTE 6
 LOCAL ROAD RECONSTRUCTION
WALL SECTIONS AND DETAILS
 SECTION 2001-167R
 COOK COUNTY
 STATION 6+850.000 TO STATION 7+400.281
 STRUCTURE NO. 016-W873
 DATE 07/05
AMERICAN
 CONSULTING ENGINEERS

FOR INFORMATION ONLY