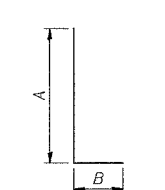
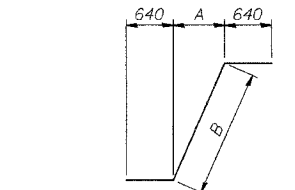


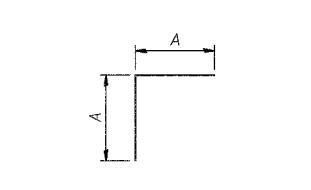
BAR h409(E) **BAR h410(E)**



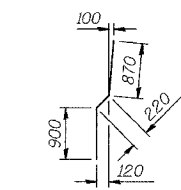
BARS n400(E) thru n408(E)



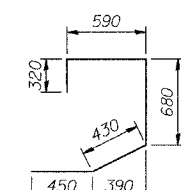
BARS w412(E), w414(E), w416(E), w418(E), w420(E) or w422(E)



BARS w413(E), w415(E), w417(E), w419(E), w421(E) or w423(E)



BARS v402(E)



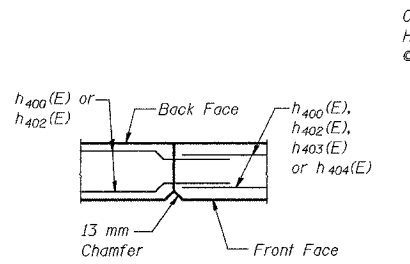
BAR v409(E)

BAR DIMENSIONS

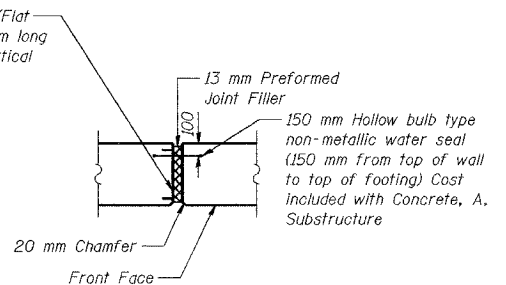
Bar	A	B
n400(E)	1.58 m	260
n401(E)	1.58 m	320
n402(E)	2.14 m	260
n403(E)	2.14 m	320
n404(E)	2.29 m	260
n405(E)	2.29 m	320
n406(E)	3.16 m	260
n407(E)	3.16 m	320
n408(E)	1.21 m	260
w412(E)	670	950
w413(E)	670	-
w414(E)	970	1.37 m
w415(E)	970	-
w416(E)	1.17 m	1.65 m
w417(E)	1.17 m	-
w418(E)	1.27 m	1.80 m
w419(E)	1.27 m	-
w420(E)	1.37 m	1.93 m
w421(E)	1.37 m	-
w422(E)	1.47 m	2.08 m
w423(E)	1.47 m	-

BILL OF MATERIAL

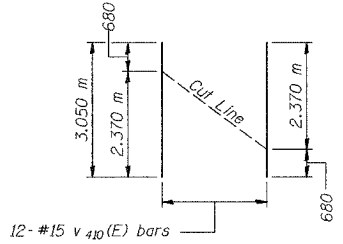
Bar	No.	Size	Length (m)	Shape
h400(E)	21	#15	6.32	—
h401(E)	427	#15	7.10	—
h402(E)	933	#15	7.84	—
h403(E)	20	#20	7.10	—
h404(E)	37	#15	7.69	—
h405(E)	74	#15	2.30	—
h406(E)	30	#15	1.10	—
h407(E)	1	#15	1.98	—
h408(E)	2	#15	1.40	—
w409(E)	364	#20	2.86	—
h410(E)	8	#15	2.74	—
h411(E)	18	#15	5.10	—
h412(E)	2	#15	3.82	—
h413(E)	32	#15	0.60	—
h414(E)	93	#15	2.11	—
n400(E)	189	#15	1.84	J
n401(E)	189	#20	1.90	J
n402(E)	218	#15	2.40	J
n403(E)	218	#20	2.46	J
n404(E)	119	#15	2.55	J
n405(E)	232	#20	2.61	J
n406(E)	602	#15	3.42	J
n407(E)	1180	#20	3.48	J
n408(E)	36	#15	1.47	J
t400(E)	775	#20	3.40	—
t401(E)	213	#20	3.90	—
t402(E)	1163	#25	4.10	—
t403(E)	702	#20	4.10	—
t404(E)	36	#20	1.70	—
v400(E)	195	#15	2.19	—
v401(E)	195	#20	1.19	—
v402(E)	1147	#20	1.99	—
v403(E)	225	#15	2.60	—
v404(E)	225	#20	1.61	—
v405(E)	125	#15	3.17	—
v406(E)	125	#20	2.18	—
v407(E)	602	#15	3.29	—
v408(E)	602	#20	2.30	—
v409(E)	558	#20	2.47	J
v410(E)	12	#15	3.05	—
v411(E)	14	#15	2.39	—



CONSTRUCTION JOINT DETAIL



13 MM EXPANSION JOINT DETAIL



FIELD CUTTING DIAGRAM

Order v410(E) bars full length. Cut as shown and use remainder of bars in opposite face.

Bar	No.	Size	Length (m)	Shape
w400(E)	78	#15	7.24	—
w401(E)	6	#15	7.53	—
w402(E)	6	#15	4.68	—
w403(E)	104	#15	8.86	—
w404(E)	104	#15	7.72	—
w405(E)	6	#15	6.58	—
w406(E)	6	#15	5.62	—
w407(E)	254	#15	9.29	—
w408(E)	60	#15	8.79	—
w409(E)	60	#15	9.02	—
w410(E)	540	#15	7.89	—
w411(E)	14	#15	5.10	—
w412(E)	13	#15	2.23	J
w413(E)	26	#15	1.34	J
w414(E)	30	#15	2.65	J
w415(E)	30	#15	1.94	J
w416(E)	15	#15	2.93	J
w417(E)	15	#15	2.34	J
w418(E)	15	#15	3.08	J
w419(E)	15	#15	2.54	J
w420(E)	15	#15	3.21	J
w421(E)	15	#15	2.74	J
w422(E)	30	#15	5.36	J
w423(E)	30	#15	2.94	J

Excavation, Foundation, Unclassified	m ³	3,844.5
Concrete, A, Substructure	m ³	1563.8
Reinforcing Bars, Epoxy Coated	kg	109,610
Surface Seal	L Sum	0.04
Geocomposite Wall Drain	m ²	742
Pipe, Underdrain, Perf. 1.63 mm, 150 mm	m	335.5
Noise Abatement Wall	Each	93
Anchor Rod Assembly	m ³	487.9
B Borrow	m ³	2421.0
Structural Backfill	m ³	2421.0
Masonry Coating	L Sum	0.09

The estimated Surface Seal area is 586.4 m²
The estimated Masonry Coating area is 586.4 m²

NOTES:
See Sheet S-16 for Wall and Parapet Sections and Anchor Rod Assembly Details
See Sheet S-18 for Rustication details.
Reinforcement bars designated (E) shall be epoxy coated.
All dimensions are in millimeters (mm) except as noted.
See Typical Section on Sheet S-2 for Drainage Details and Surface Seal Limits.

DESIGNED	KFA
CHECKED	BPS
DRAWN	MJB
CHECKED	GSP

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41

WALL SECTIONS AND DETAILS (2 OF 2)
SECTION 2626.2-R-2
LAKE COUNTY, INDIANA
STATION 8+762.750 TO STATION 9+101.839
STRUCTURE NO. 016-W915

DATE 09/05

AMERICAN
CONSULTING ENGINEERS