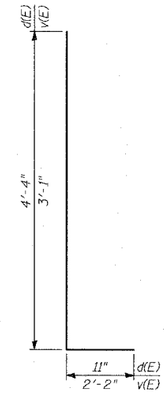
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	461
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717 & 1818) R-8

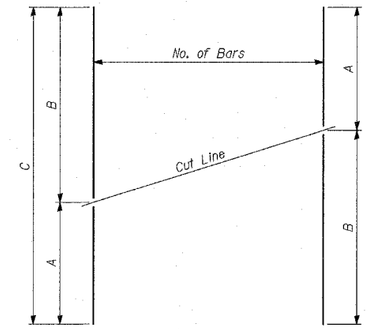
62694

PILE LAYOUT

Pile	Station at Working Point	Top of Parapet El.	Top of Pile El.	Bot. of Wall El.	Section	Pile Tip El.	Pile Length
P-191	2221+69.28	23.52	19.35	9.12	W27x178	-23.90	43'-3"
P-192	2221+64.28	23.50	19.34	9.10		-23.91	43'-3"
P-193	2221+59.28	23.49	19.32	9.08		-23.93	43'-3"
P-194	2221+54.28	23.47	19.31	9.07		-23.94	43'-3"
P-195	2221+49.28	23.46	19.29	9.05		-23.96	43'-3"
P-196	2221+44.28	23.45	19.28	9.03		-23.97	43'-3"
P-197	2221+39.28	23.43	19.27	9.01		-24.07	43'-4"
P-198	2221+34.28	23.42	19.25	9.00		-24.08	43'-4"
P-199	2221+29.28	23.41	19.24	8.98		-24.09	43'-4"
P-200	2221+24.28	23.39	19.23	8.96		-24.11	43'-4"
P-201	2221+19.28	23.38	19.21	8.94		-24.12	43'-4"
P-202	2221+14.28	23.37	19.20	8.93		-24.13	43'-4"
P-203	2221+09.28	23.35	19.19	8.91		-24.15	43'-4"
P-204	2221+04.28	23.34	19.17	8.89		-24.16	43'-4"
P-205	2220+99.28	23.33	19.16	8.87		-24.17	43'-4"
P-206	2220+94.28	23.31	19.14	8.86		-24.19	43'-4"
P-207	2220+89.28	23.30	19.13	8.84		-24.20	43'-4"
P-208	2220+84.28	23.28	19.12	8.82		-24.22	43'-4"
P-209	2220+79.28	23.27	19.10	8.80	W27x178	-24.23	43'-4"
P-210	2220+73.99	23.23	19.06	9.17	W21x147	-21.85	40'-11"
P-211	2220+68.06	23.16	18.99	9.93		-21.09	40'-1"
P-212	2220+62.13	23.09	18.92	10.68		-20.33	39'-3"
P-213	2220+56.20	23.02	18.85	11.43		-19.65	38'-6"
P-214	2220+50.27	22.95	18.79	12.19		-18.88	37'-8"
P-215	2220+43.84	22.88	18.71	13.01		-18.04	36'-9"
P-216	2220+37.42	22.80	18.64	13.82		-17.20	35'-10"
P-217	2220+30.99	22.73	18.56	14.64		-16.44	35'-0"
P-218	2220+24.57	22.65	18.49	15.46	W21x147	-15.60	34'-1"



BARS d(E) & v(E)



SERIES OF BAR CUTTING DIAGRAM

See table for dimensions. Make all cuts normal to bar axis

BAR TABLE SCHEDULE

Bar	No. of Sets Req'd	No. of Bars Per Set	A	B	C
v_1(E)	1	31	3'-10"	5'-0"	8'-10"
v_2(E)	1	26	5'-0"	5'-9"	10'-9"
v_3(E)	1	31	5'-10"	6'-4"	12'-2"
v_4(E)	1	31	6'-4"	6'-10"	13'-2"
v_5(E)	1	31	6'-10"	7'-4"	14'-2"
v_6(E)	1	31	7'-4"	7'-10"	15'-2"
v_7(E)	1	31	7'-10"	8'-4"	16'-2"
v_8(E)	1	31	8'-4"	8'-10"	17'-2"
v_9(E)	1	31	8'-10"	9'-5"	18'-3"
v_{10}(E)	1	31	9'-5"	10'-0"	19'-5"
v_{11}(E)	1	31	10'-0"	10'-8"	20'-8"
v_{13}(E)	1	31	10'-10"	11'-1"	21'-11"
v_{14}(E)	1	31	11'-1"	11'-4"	22'-5"
v_{15}(E)	1	31	11'-4"	11'-7"	22'-11"
v_{16}(E)	1	31	11'-7"	11'-10"	23'-5"
v_{25}(E)	1	31	11'-4"	7'-3"	18'-7"
v_{26}(E)	1	28	7'-3"	3'-7"	10'-10"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	1253	#4	5'-3"	L
d_1(E)	1253	#6	6'-6"	—
e(E)	192	#5	32'-2"	—
e_1(E)	96	#5	29'-8"	—
e_2(E)	24	#5	24'-8"	—
e_3(E)	8	#5	26'-6"	—
e_4(E)	8	#5	33'-4"	—
h(E)	640	#5	32'-2"	—
h_1(E)	336	#5	29'-8"	—
h_2(E)	77	#5	24'-8"	—
h_3(E)	21	#5	26'-6"	—
h_4(E)	17	#5	33'-4"	—
h_5(E)	22	#5	32'-6"	—
v(E)	3	#4	5'-3"	L
v_1(E)	31	#4	8'-10"	—
v_2(E)	26	#4	10'-9"	—
v_3(E)	31	#4	12'-2"	—
v_4(E)	31	#4	13'-2"	—
v_5(E)	31	#4	14'-2"	—
v_6(E)	31	#4	15'-2"	—
v_7(E)	31	#4	16'-2"	—
v_8(E)	31	#4	17'-2"	—
v_9(E)	31	#4	18'-3"	—
v_{10}(E)	31	#4	19'-5"	—
v_{11}(E)	31	#4	20'-8"	—
v_{12}(E)	62	#4	10'-9"	—
v_{13}(E)	31	#4	21'-11"	—
v_{14}(E)	31	#4	22'-5"	—
v_{15}(E)	31	#4	22'-11"	—
v_{16}(E)	31	#4	23'-5"	—
v_{17}(E)	124	#4	11'-11"	—
v_{18}(E)	300	#4	12'-0"	—
v_{19}(E)	62	#4	11'-9"	—
v_{20}(E)	62	#4	11'-7"	—
v_{21}(E)	62	#4	11'-6"	—
v_{22}(E)	186	#4	11'-5"	—
v_{23}(E)	186	#4	11'-4"	—
v_{24}(E)	424	#4	11'-3"	—
v_{25}(E)	31	#4	18'-7"	—
v_{26}(E)	28	#4	10'-10"	—
Reinforcement Bars, Epoxy Coated			POUND	80,100
Concrete Structures			CU YD	702
Protective Coat			SQ YD	2,148
Furnishing Soldier Piles (HP Section)			FOOT	183
Furnishing Soldier Piles (W Section)			FOOT	8,568
Drilling and Setting Soldier Piles (In Soil)			CU FT	52,151

Reinforcement bars designated (E) shall be epoxy coated.

SHEET 12 OF 33

LAP SPLICES

Bar	Lap
#4	1'-8"
#5	2'-2"
#6	2'-7"
#8	4'-6"

REVISIONS	
NAME	DATE
REVISED	04/15/05

TY·LIN INTERNATIONAL

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG STATE ST.
93RD ST. TO 91ST ST.
WALL 2B

PILE LAYOUT, DETAILS & BILL OF MATERIAL

S.N. 016-W961 — DESIGNED BY: MI, DJR
SCALE: N.T.S. — DRAWN BY: DJR, MAF
DATE: MARCH 18, 2005 — CHECKED BY: TD, MI

D:\02373_Structur\Crg\Wall 02B\rt1\adhsi\10.3a_w961.dgn 04/12/2005 10:46:55 AM