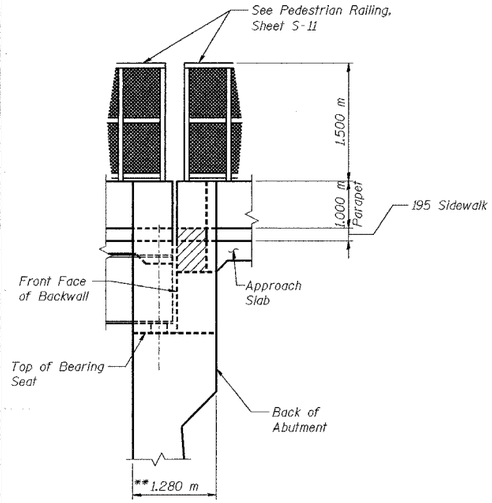
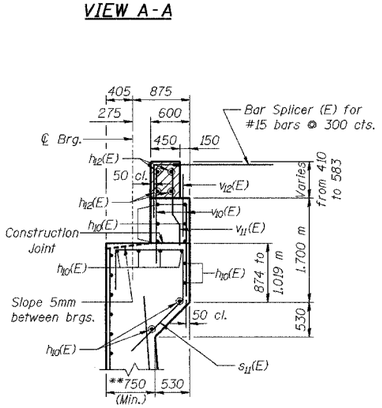
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80/94	2626.1B	COOK	1207	569
	ILLINOIS	FED. AID PROJECT: C-74-058-84		

SHEET NO. S-25
35 SHEETS

CONTRACT No. 62114

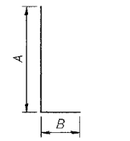


VIEW A-A

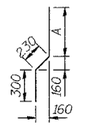


DETAIL B

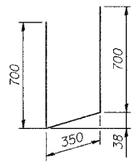
** NOTE: Wall thickness includes 40 mm Rustication.



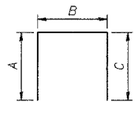
BAR $n_{10}(E)$, $n_{11}(E)$, $n_{20}(E)$, $n_{21}(E)$, $v_{16}(E)$, $v_{26}(E)$



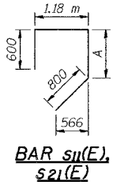
BAR $v_{11}(E)$, $v_{21}(E)$



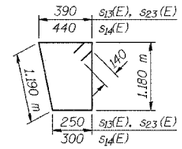
BAR $s_{15}(E)$, $s_{24}(E)$



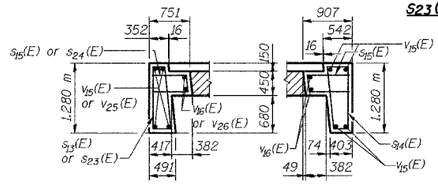
BAR $s_{10}(E)$, $s_{12}(E)$, $s_{20}(E)$, $s_{22}(E)$



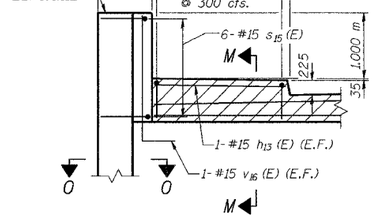
BAR $s_{11}(E)$, $s_{21}(E)$



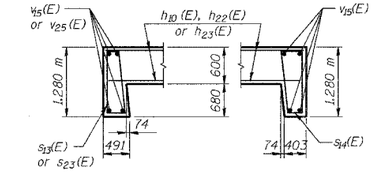
BAR $s_{13}(E)$, $s_{14}(E)$ $s_{23}(E)$



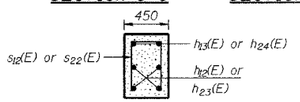
DETAIL L DETAIL N



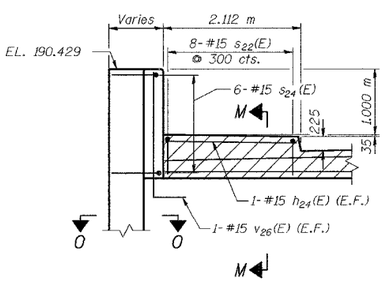
DETAIL C



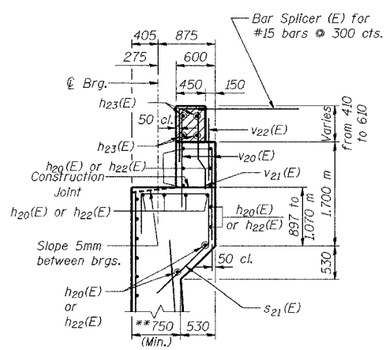
SECTION O-O SECTION P-P



SECTION M-M



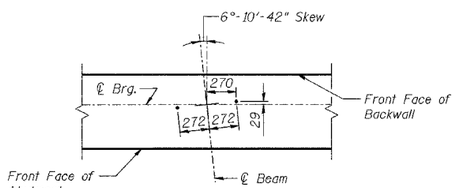
DETAIL H



DETAIL G

BAR DIMENSIONS

Bar	A	B	C
$n_{10}(E)$	2.65m	400	——
$n_{11}(E)$	6.25m	500	——
$n_{20}(E)$	2.68m	400	——
$n_{21}(E)$	5.73m	500	——
$v_{11}(E)$	720	——	——
$v_{16}(E)$	1.67m	260	——
$v_{21}(E)$	740	——	——
$v_{26}(E)$	1.70m	260	——
$s_{10}(E)$	640	580	640
$s_{11}(E)$	770	——	——
$s_{12}(E)$	500	350	500
$s_{20}(E)$	640	580	640
$s_{21}(E)$	790	——	——
$s_{22}(E)$	500	350	500



ANCHOR BOLT LAYOUT

SOUTH ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
$h_{10}(E)$	100	#15	12.95	——
$h_{11}(E)$	6	#15	4.08	——
$h_{12}(E)$	16	#20	6.48	——
$h_{13}(E)$	4	#15	1.98	——
$n_{10}(E)$	88	#25	3.05	
$n_{11}(E)$	200	#30	6.75	
$s_{10}(E)$	28	#15	1.86	
$s_{11}(E)$	88	#15	3.35	
$s_{12}(E)$	16	#15	1.35	
$s_{13}(E)$	9	#15	3.29	
$s_{14}(E)$	9	#15	3.39	
$s_{15}(E)$	12	#15	1.75	
$t_{10}(E)$	124	#25	6.40	——
$t_{11}(E)$	140	#30	6.40	——
$v_{10}(E)$	170	#15	1.60	——
$v_{11}(E)$	82	#15	1.25	——
$v_{12}(E)$	85	#15	1.23	——
$v_{13}(E)$	88	#25	8.14	——
$v_{14}(E)$	100	#25	3.57	——
$v_{15}(E)$	8	#15	3.09	——
$v_{16}(E)$	4	#15	1.93	
$w_{10}(E)$	82	#15	12.95	——
Porous Granular Embankment			m^3	1,357
Structure Excavation			m^3	1,416
Concrete Structures			m^3	449.8
Reinforcement Bars, Epoxy Coated			kg	26,230
Furnishing Metal Pile Shells, 356 ϕ			m	1,320.0
Driving and Filling Shells			m	1,320.0
Test Pile Metal Shells			Each	1
Geocomposite Wall Drain			m^2	242
Bar Splicers			Each	179

1 REVISED 03-29-04 KFA

NORTH ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
$h_{20}(E)$	46	#15	12.95	——
$h_{21}(E)$	6	#15	4.08	——
$h_{22}(E)$	46	#15	12.16	——
$h_{23}(E)$	16	#20	6.45	——
$h_{24}(E)$	4	#15	1.98	——
$n_{20}(E)$	85	#25	3.08	
$n_{21}(E)$	168	#30	6.23	
$s_{20}(E)$	28	#15	1.86	
$s_{21}(E)$	88	#15	3.37	
$s_{22}(E)$	16	#15	1.35	
$s_{23}(E)$	9	#15	3.29	
$s_{24}(E)$	6	#15	1.75	
$t_{20}(E)$	93	#25	5.40	——
$t_{21}(E)$	147	#30	5.40	——
$v_{20}(E)$	168	#15	1.60	——
$v_{21}(E)$	82	#15	1.27	——
$v_{22}(E)$	84	#15	1.25	——
$v_{23}(E)$	85	#25	7.33	——
$v_{24}(E)$	85	#25	3.26	——
$v_{25}(E)$	4	#15	3.03	——
$v_{26}(E)$	2	#15	1.96	
$w_{24}(E)$	72	#15	6.77	——
$w_{25}(E)$	72	#15	7.65	——
Porous Granular Embankment			m^3	1,091
Structure Excavation			m^3	1,613
Concrete Structures			m^3	400.1
Reinforcement Bars, Epoxy Coated			kg	21,800
Furnishing Metal Pile Shells, 356 ϕ			m	1,195.0
Driving and Filling Shells			m	1,195.0
Test Pile Metal Shells			Each	1
Geocomposite Wall Drain			m^2	149
Bar Splicers			Each	169

1

MINIMUM BAR LAPS

#15 bars = 640
#20 bars = 790
#25 bars = 1320
#30 bars = 1850

LEGEND

E.F. = Each Face

NOTES:

Reinforcement bars designated (E) shall be epoxy coated.

Space reinforcement in cap to miss anchor bolts.

All edges shall have standard 20 mm chamfers except as noted.

All dimensions are in millimeters (mm) except as noted.

Pour steps monolithically with cap.

See Sheet S-28 for Rustication details.

DESIGNED	BHS
CHECKED	GSP
DRAWN	BHS
CHECKED	GSP

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I ROUTE 80/94 (KINGERY EXPRESSWAY)
UNDER WENTWORTH AVE

ABUTMENT DETAILS
SECTION 2626.1B
COOK COUNTY
STATION 7+579.488
STRUCTURE NO. 016-2790

DATE 07/05

AMERICAN CONSULTING ENGINEERS

FOR INFORMATION ONLY