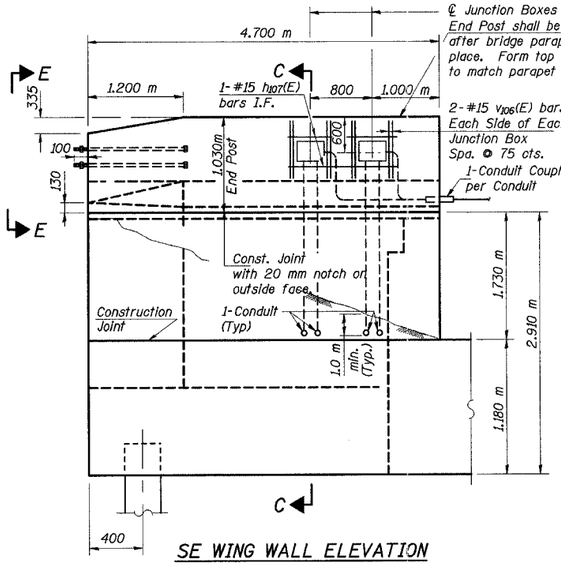
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80/94		COOK	870	498
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

SECTION (0203.1 & 0312-708W) R-3 CONTRACT # 62108

SHEET NO. 25
37 SHEETS

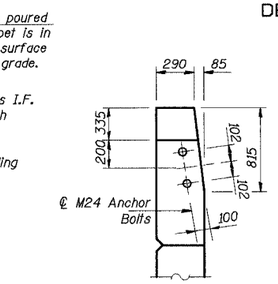


SE WING WALL ELEVATION

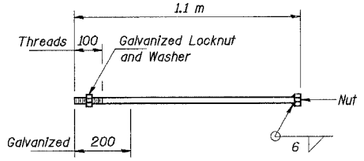
Showing Dimensions

General Contractor to coordinate with the Electrical Contractor before embedding the conduits and junction boxes.

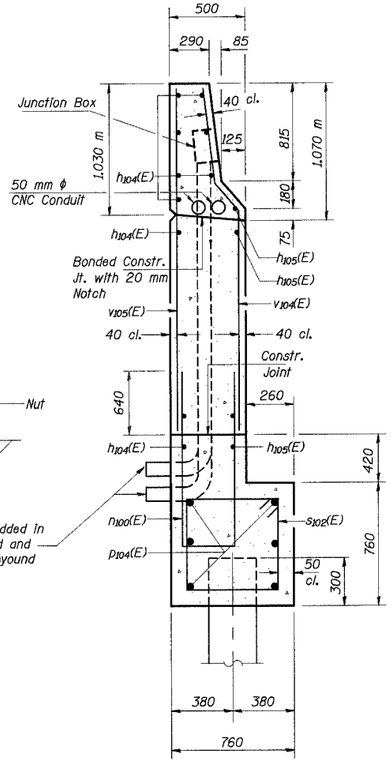
Note:
1. Place h_{107} (E) and v_{106} (E) bars at 50 mm clear from junction box.
2. Cut v_{104} (E) bas as required to clear junction box.



VIEW E-E

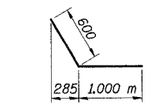


M24 ANCHOR BOLT

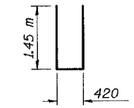


100 mm ϕ CNC embedded in wingwall and stubbed and capped out 1.0 m beyound wall (Typ.)

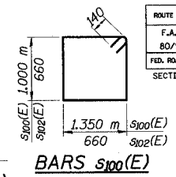
SECTION C-C



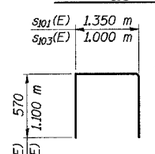
BAR h_{103}(E)



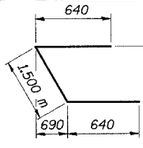
BAR n_{100}(E)



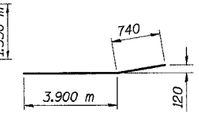
BARS s_{100}(E) & s_{102}(E)



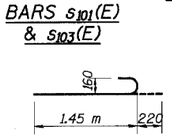
BARS s_{101}(E) & s_{103}(E)



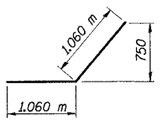
BAR u_{100}(E)



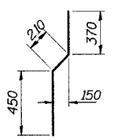
BAR h_{105}(E)



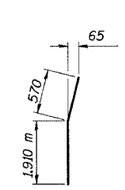
BAR n_{101}(E)



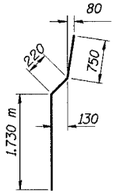
BAR p_{101}(E)



BAR v_{102}(E)



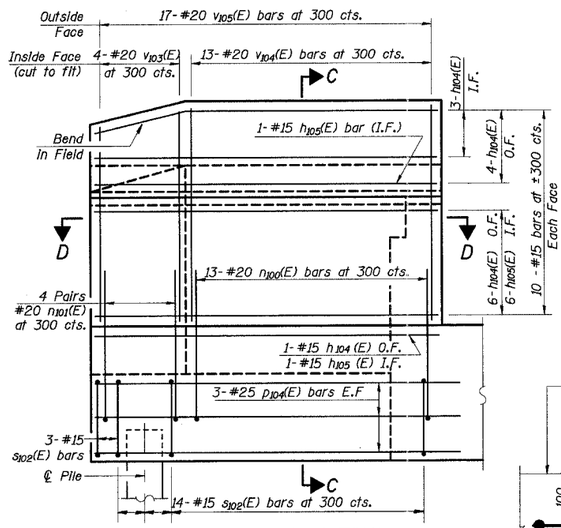
BAR v_{103}(E)



BAR v_{104}(E)

SOUTH ABUTMENT BILL OF MATERIAL

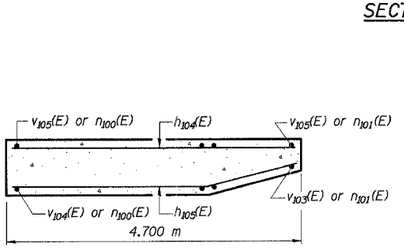
Bar	No.	Size	Length	Shape
h_{100}(E)	5	# 15	4.07	
h_{101}(E)	20	# 15	7.03	
h_{102}(E)	10	# 20	7.10	
h_{103}(E)	14	# 15	1.60	
h_{104}(E)	14	# 15	4.62	
h_{105}(E)	8	# 15	4.64	
h_{106}(E)	5	# 15	2.28	
h_{107}(E)	7	# 15	1.92	
n_{100}(E)	14	# 20	3.32	
n_{101}(E)	6	# 20	1.67	
p_{100}(E)	10	# 25	6.59	
p_{101}(E)	6	# 25	2.12	
p_{102}(E)	10	# 25	8.06	
p_{103}(E)	10	# 25	6.35	
p_{104}(E)	6	# 25	5.00	
s_{100}(E)	68	# 15	4.98	
s_{101}(E)	25	# 15	2.49	
s_{102}(E)	17	# 15	2.92	
s_{103}(E)	8	# 15	3.20	
s_{104}(E)	4	# 15	3.16	
u_{100}(E)	4	# 20	2.78	
v_{100}(E)	122	# 15	1.71	
v_{101}(E)	47	# 15	0.90	
v_{102}(E)	47	# 15	1.03	
v_{103}(E)	4	# 20	2.48	
v_{104}(E)	13	# 20	2.70	
v_{105}(E)	17	# 20	2.68	
v_{106}(E)	8	# 15	0.95	
Structure Excavation		m^3	79	
Concrete Structures		m^3	50.1	
Reinforcement Bars, Epoxy Coated		kg	3,270	
Furnishing Steel Piles HP310X79		m	463	
Driving Steel Piles		m	463	
Test Pile Steel HP310X79		Each	1	
Controlled Low-Strength Material		m^3	2.4	



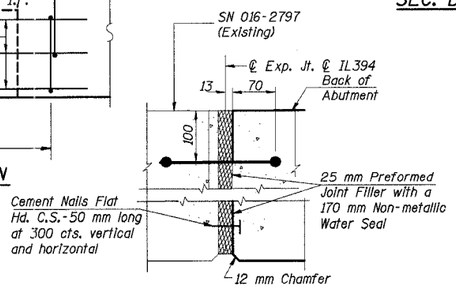
SE WING WALL ELEVATION

Showing Reinforcement

DESIGNED	M.R./ H.T.
CHECKED	H.T.
DRAWN	J.B./ J.S.
CHECKED	H.T./ M.R.

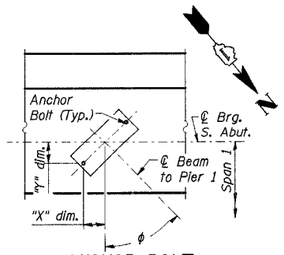


SEC. D-D (SE WINGWALL)



EXPANSION JOINT

Cost Included with "Concrete Structures"

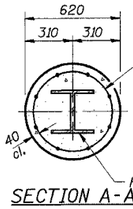


ANCHOR BOLT LOCATION DETAIL

For Locations see Sheet No. 24 of 37

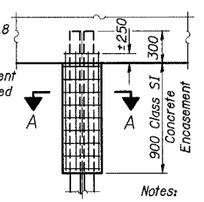
ANCHOR BOLT LOCATION DETAIL

Beam No.	Skew Angle(ϕ)	X (mm)	Y (mm)
9	27°45'14"	312	164
10	27°36'25"	312	163
11	27°27'34"	312	162
12	27°18'42"	313	162
13	27°09'48"	313	161
14	27°00'53"	314	160
15	26°51'56"	314	159
16	26°42'58"	314	158



SECTION A-A

Welded wire fabric 152 x 152-MW25.8 x MW25.8 with a mass of 2.91 kg/m^2. The cost of Excavation, Class SI Concrete Encasement and Reinforcement Is included with Furnishing Piles. Forms for Encasement may be omitted when soil conditions permit.



PILE ENCASEMENT DETAIL

Notes:

1. For additional Notes see Sheet No. 24 of 37.
2. Work this sheet with Sheet No. 24 of 37.
3. Quantity of concrete in end post included with Concrete Superstructure on Sheet No. 13 of 37.
4. For details of Bar Splicers, see Sheet No. 31 of 37.
5. All dimensions are in millimeters (mm) except as noted.
6. For details of Junction Box and method of payment see Electrical Drawings.

Min. bar laps:

#15 bars - 510 mm
#20 bars - 640 mm
#25 bars - 1.060 m

Abbreviations:

F.F. = Front Face
B.F. = Back Face
E.F. = Each Face
O.F. = Outside Face
I.F. = Inside Face

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94/IL 394 SOUTH BOUND

SOUTH ABUTMENT DETAILS

SB IL. ROUTE 394 OVER CANADIAN NATIONAL RR
F.A.P. 332 SECTION (0203.1 & 0312-708W) R-3
COOK COUNTY
STA. 39+752.246 S.N. 016-2798 (INSIDE LANES)

DATE: July 18, 2005
SCALE: NONE

Soodan

Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602