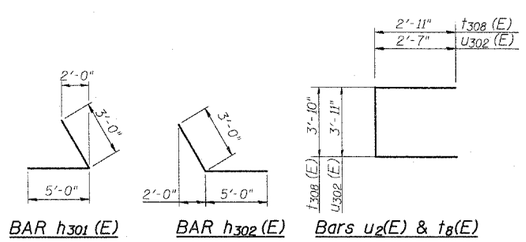
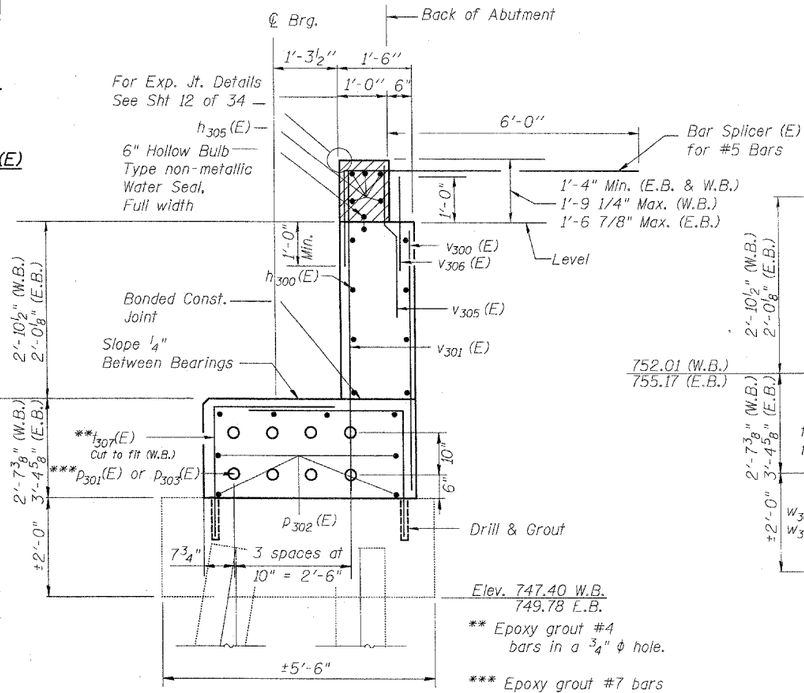
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 301 (US 20)	(2HB -1)D	WINNEBAGO	107	90
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

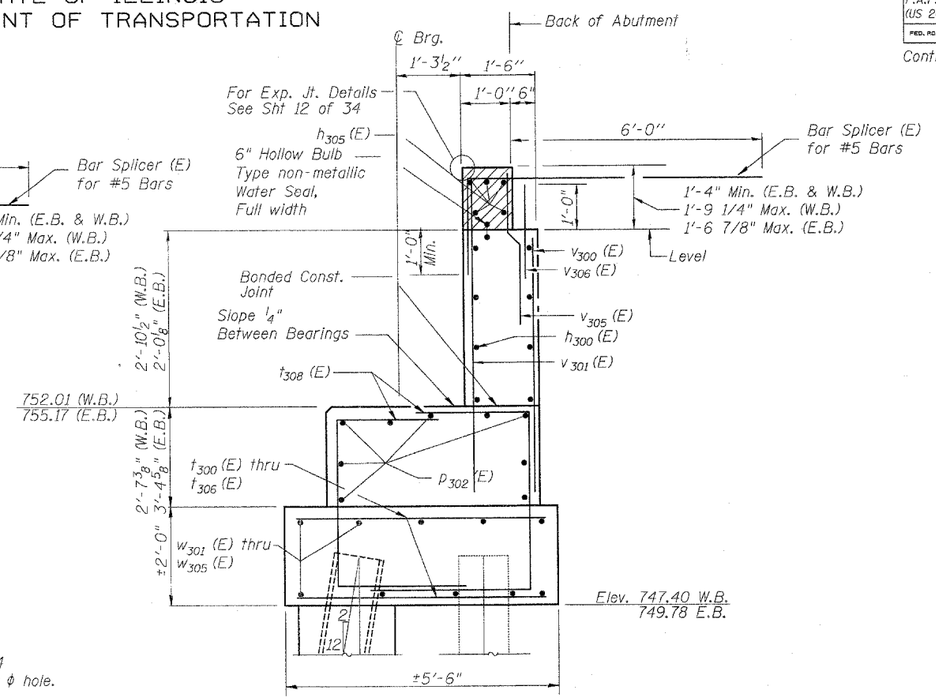
SHEET NO. 25
34 SHEETS

Contract #64B07

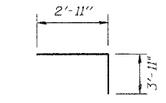


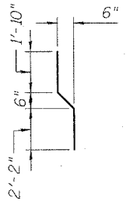


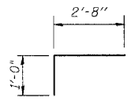
SECTION THRU PROPOSED
BEARING SEAT EXTENSION

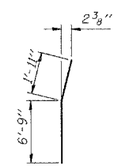


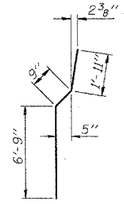
SECTION THRU PROPOSED
BEARING SEAT AND FOOTING EXTENSION











PILE DATA

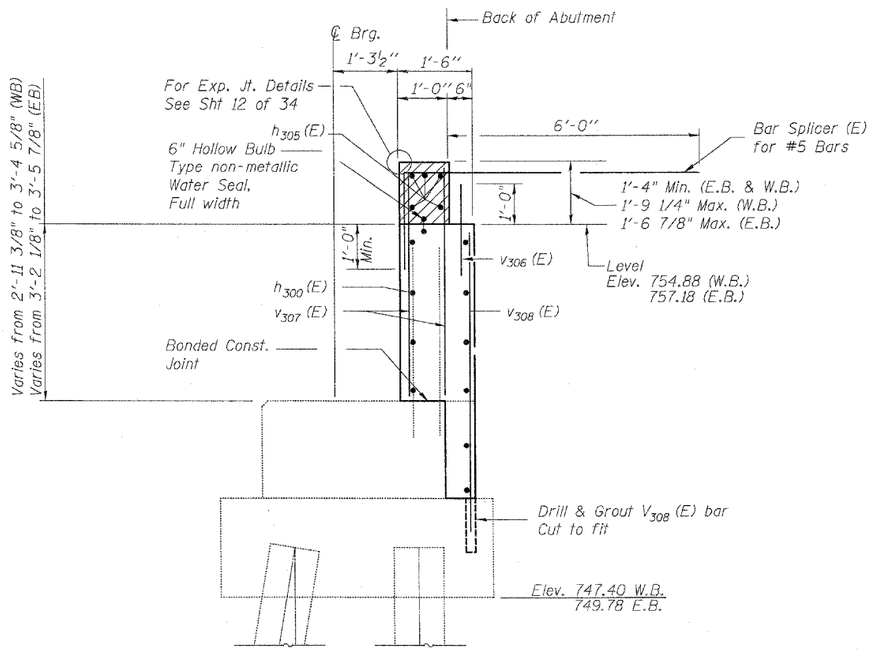
Type: HP12X53
Nominal Required Bearing: 418 Kips
Allowable Resistance Available: 143 Kips
Est. Length: 63'
No. Production Piles: 3
No. Test Piles: 1

DESIGNED	SSM
CHECKED	JLA
DRAWN	GYR
CHECKED	SSM

A-1-D 11-1-06

The Steel H-Piles shall be according to AASHTO M270 grade 50.

The Test Pile Shall be driven to 110% of the nominal required Bearing indicated in the Pile data information.



SECTION THRU EXISTING ABUTMENT

ABUTMENT BILL OF MATERIAL FOR TWO ABUTMENTS

Structure Excavation	Cu. Yd.	222.4
Concrete Structures	Cu. Yd.	75.8
Reinforcement Bars, Epoxy Coated	Pound	8,750
Furnishing Steel Piles HP12x53	Foot	189
Driving Piles	Foot	189
Test Pile, HP12X53	Each	1
Concrete Encasement	Cu. Yd.	1.6
Concrete Sealer	Sq. Ft.	1,614
Geocomposite Wall Drain	Sq. Yd.	62
Pipe Underdrains For Structures, 4"	Foot	152
Bar Splicers	Each	106
Porous Granular Embankment, Special	Cu. Yd.	169

For details of Bar Splicers, see sheet 30 of 34.
For details of piles and Concrete Encasement, see sheet 29 of 34.

Concrete Sealer shall be applied to all permanently exposed portions of the proposed backwalls, abutment fronts and bearing seats, new concrete only.

Holes shall be drilled a minimum if 9" deep. Bars shall be drilled and epoxy grouted according to Article 584 of the Standard and Specifications.

REINFORCEMENT FOR ONE ABUTMENT

Bar	No.	Size	Length	Shape
h_{300} (E)	16	#5	27'-2"	
h_{301} (E)	10	#5	8'-0"	
h_{302} (E)	10	#5	8'-0"	
h_{303} (E)	28	#4	11'-2"	
h_{304} (E)	20	#4	10'-10"	
h_{305} (E)	10	#6	27'-6"	
n_{300} (E)	10	#6	15'-4"	
n_{301} (E)	6	#6	7'-8"	
n_{302} (E)	25	#6	5'-0"	
p_{300} (E)	6	#7	13'-1"	
p_{301} (E)	8	#7	5'-0"	
p_{302} (E)	8	#7	11'-2"	
p_{303} (E)	8	#7	3'-8"	
s_{300} (E)	18	#4	8'-5"	
t_{300} (E)	2	#6	11"	
t_{301} (E)	2	#6	1'-6"	
t_{302} (E)	2	#6	2'-3"	
t_{303} (E)	2	#6	3'-4"	
t_{304} (E)	2	#6	4'-5"	
t_{305} (E)	2	#6	5'-7"	
t_{306} (E)	2	#6	6'-8"	
t_{307} (E)	14	#4	6'-10"	
t_{308} (E)	8	#4	9'-8"	
U_{300} (E)	4	#6	9'-1"	
v_{300} (E)	10	#5	5'-0"	
v_{301} (E)	10	#5	6'-2"	
v_{302} (E)	24	#6	9'-2"	
v_{303} (E)	6	#6	8'-6"	
v_{304} (E)	16	#6	9'-5"	
v_{305} (E)	10	#5	3'-8"	
v_{306} (E)	53	#5	2'-0"	
v_{307} (E)	86	#5	4'-0"	
v_{308} (E)	43	#5	6'-2"	
w_{300} (E)	16	#6	13'-3"	
w_{301} (E)	2	#6	8'-0"	
w_{302} (E)	2	#6	7'-4"	
w_{303} (E)	2	#6	4'-2"	
w_{304} (E)	2	#6	3'-4"	
w_{305} (E)	2	#6	2'-2"	

Plans Prepared by: Kudrna & Associates, Ltd.

ABUTMENT MODIFICATION DETAILS
WEST ABUTMENT (EB ROADWAY)
EAST ABUTMENT (WB ROADWAY)
F.A.P. ROUTE 301 (US 20)
OVER SIMPSON ROAD
SECTION (2HB-1)D
WINNEBAGO COUNTY
STATION 849+27.97
STRUCTURE NO. 101-0053 (W.B.)
STRUCTURE NO. 101-0054 (E.B.)