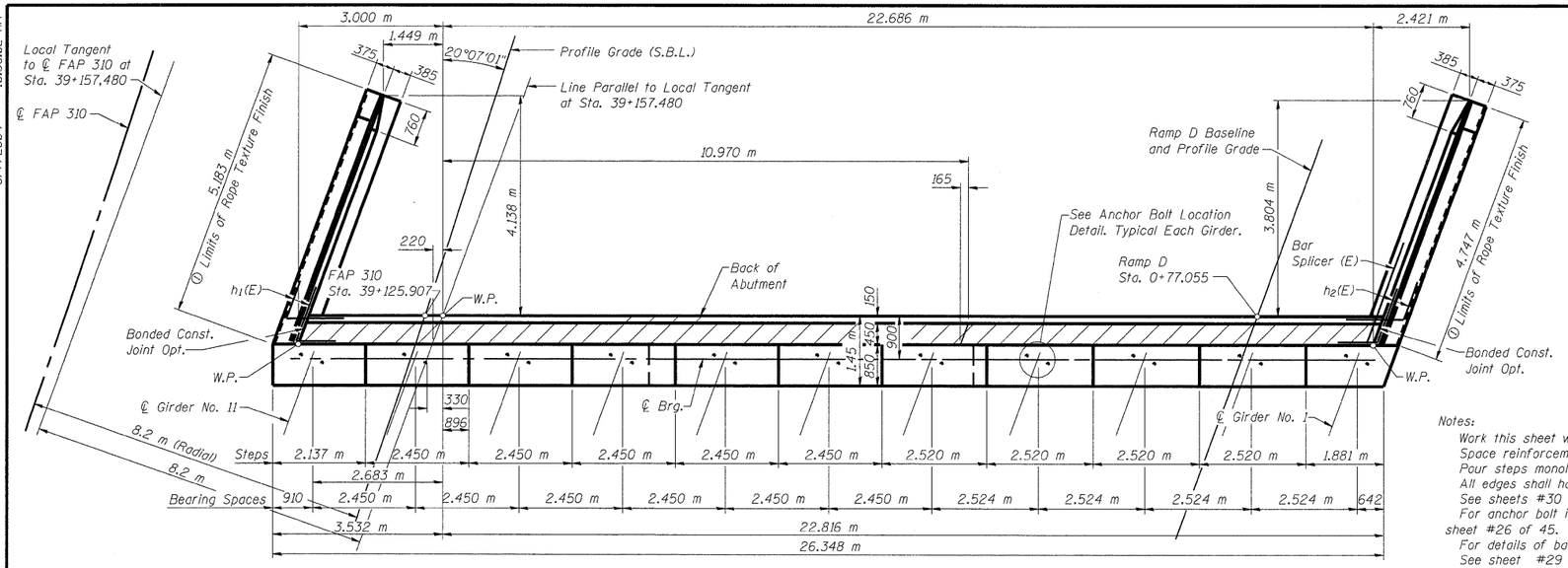
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.L. F.A.P. 310	*	MADISON	149	95
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

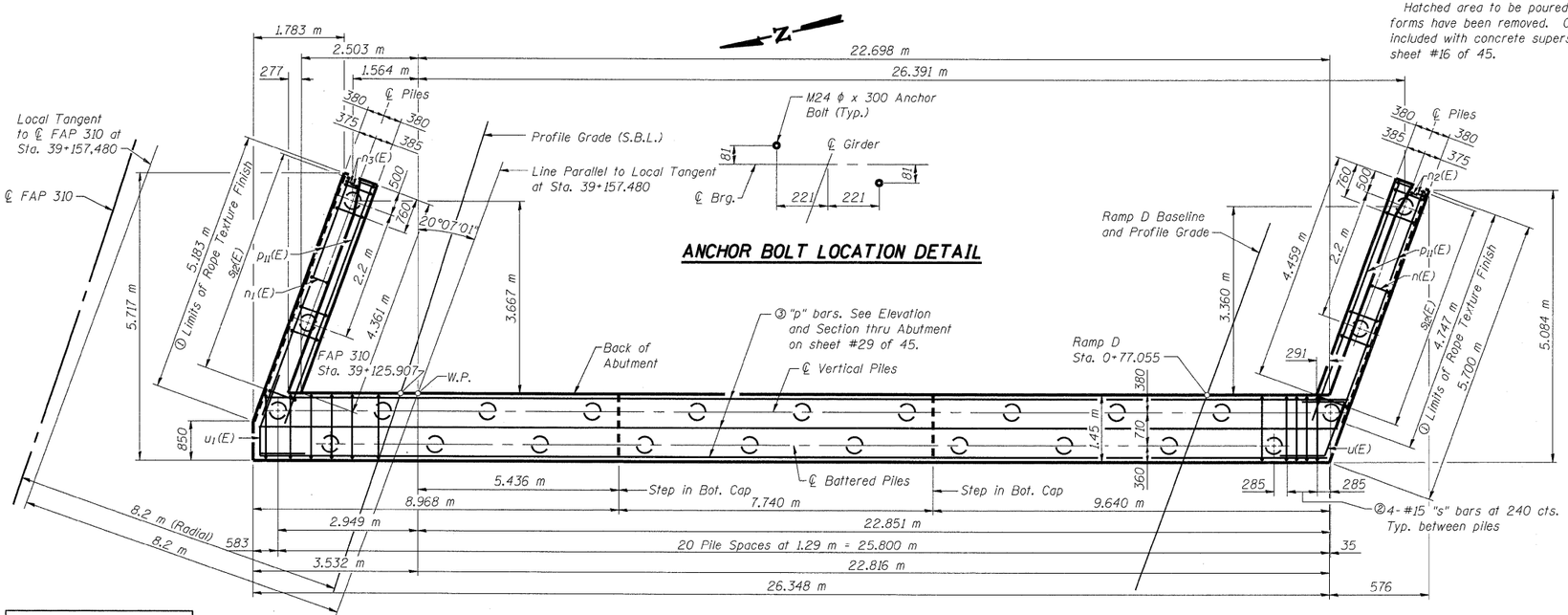
SHEET NO. 28

45 SHEETS

Contract #76634
* 60-15VB-1 & 2



TOP VIEW



ANCHOR BOLT LOCATION DETAIL

PLAN PILE-CAP

Notes:

Work this sheet with sheets #29, 30 & 31 of 45.
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
All edges shall have standard 20 mm chamfer.
See sheets #30 & 31 of 45 for Wing Wall Details.
For anchor bolt installation see details on sheet #26 of 45.
For details of bar splicers, see sheet #41 of 45.
See sheet #29 of 45 for bar details.
See sheet #29 of 45 for Elevation of Abutment.
See sheet #40 of 45 for pile details.
Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with concrete superstructure on sheet #16 of 45.

EAST ABUT. BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h(E)	14	#15	13.14	
h_1(E)	10	#15	2.03	
h_2(E)	10	#15	2.03	
h_3(E)	12	#15	4.67	
h_4(E)	8	#15	4.68	
h_5(E)	8	#20	13.23	
h_6(E)	11	#15	5.10	
h_7(E)	7	#15	5.11	
n(E)	14	#20	4.40	
n_1(E)	14	#20	3.64	
n_2(E)	6	#20	2.21	
n_3(E)	6	#20	1.83	
p(E)	3	#25	8.80	
p_1(E)	3	#25	9.19	
p_2(E)	3	#25	11.09	
p_3(E)	12	#15	13.50	
p_4(E)	3	#25	3.52	
p_5(E)	15	#25	3.90	
p_6(E)	3	#25	3.97	
p_7(E)	3	#25	6.49	
p_8(E)	1	#25	5.85	
p_9(E)	1	#25	6.15	
p_{10}(E)	1	#25	6.46	
p_{11}(E)	12	#25	4.95	
s(E)	6	#15	4.98	
s_1(E)	9	#15	5.24	
s_2(E)	8	#15	5.52	
s_3(E)	6	#15	5.80	
s_4(E)	2	#15	5.20	
s_5(E)	8	#15	5.46	
s_6(E)	8	#15	5.68	
s_7(E)	6	#15	5.84	
s_8(E)	7	#15	5.38	
s_9(E)	8	#15	5.50	
s_{10}(E)	7	#15	5.62	
s_{11}(E)	6	#15	5.94	
s_{12}(E)	30	#15	2.90	
u(E)	5	#20	3.48	
u_1(E)	5	#20	2.76	
v(E)	172	#15	1.70	
v_1(E)	86	#15	1.10	
v_2(E)	86	#15	0.68	
v_3(E)	17	#20	2.03	
v_4(E)	14	#20	2.05	
v_5(E)	3	#20	2.01	
v_6(E)	17	#20	1.97	
v_7(E)	14	#20	1.99	
v_8(E)	3	#20	1.95	
Bar Splicers			Each	86
Structure Excavation			m^3	209
Concrete Encasement			m^3	7.8
Form Liner Textured Surface			m^2	27
Concrete Structures			m^3	82.0
Reinforcement Bars (Epoxy Coated)			kg	4,440
Furnishing Metal Shell Piles 356mmX6.35mm			m	625
Driving Piles			m	625
Concrete Sealer			m^2	84

PILE DATA

Type & Size: Metal Shell - 356 mm ϕ x 6.35 mm walls
Nominal Required Bearing: 1500 kN
Allowable Resistance Available: 500 kN
Est. Length: 25.0 m
No. Required: 25

① Patterned Rope Texture Concrete (See sheet #4 of 45 for details)

② "s" bars include s(E) thru s_{11}(E). See Elevation on sheet #29 of 45.

③ "p" bars include p(E) thru p_{10}(E).

DESIGNED	ADL
CHECKED	WLW
DRAWN	RJP
CHECKED	WLW

EAST ABUTMENT
FAP RTE. 310 (IL RTE. 255) SB & RAMP D OVER
UNION PACIFIC & KANSAS CITY SOUTHERN R.R.
SECTION 60-15VB-1 & 2
MADISON COUNTY
STATION 39+160.297
STRUCTURE NUMBER 060-0311

Klingner & Assoc., P.C.

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