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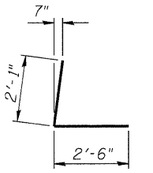
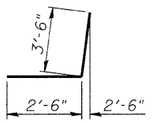


BAR $h_1(E)$



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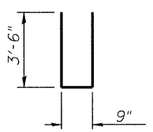
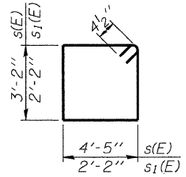
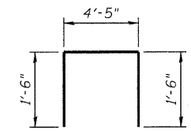


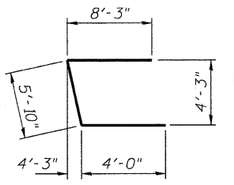
BAR n(E)



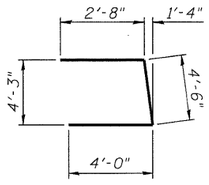
BARS s(E) & $s_1(E)$



BAR $s_2(E)$



BAR u(E)



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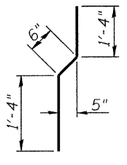

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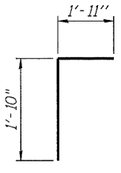
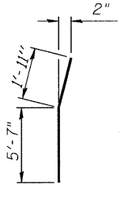


BAR v(E)



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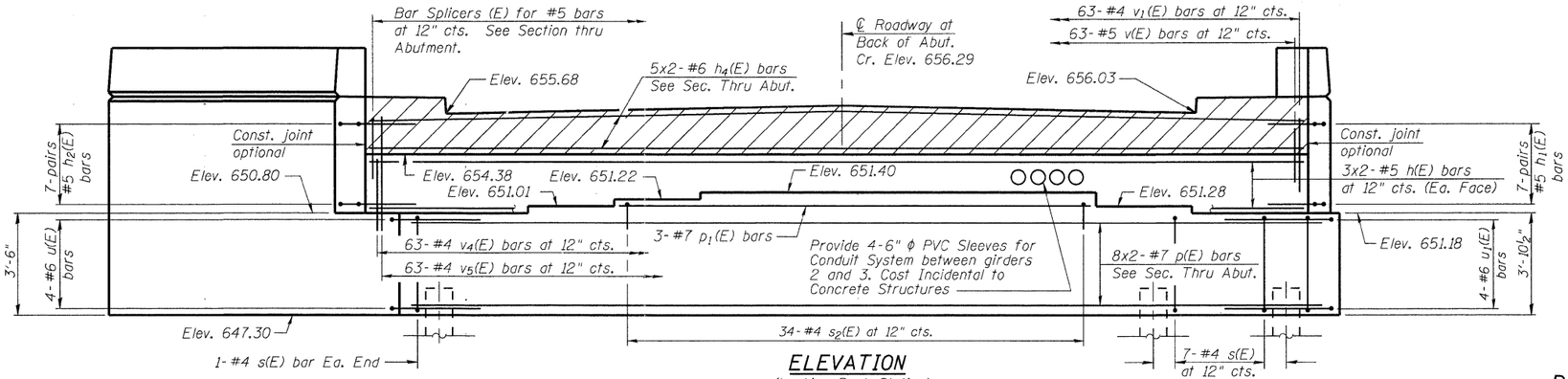
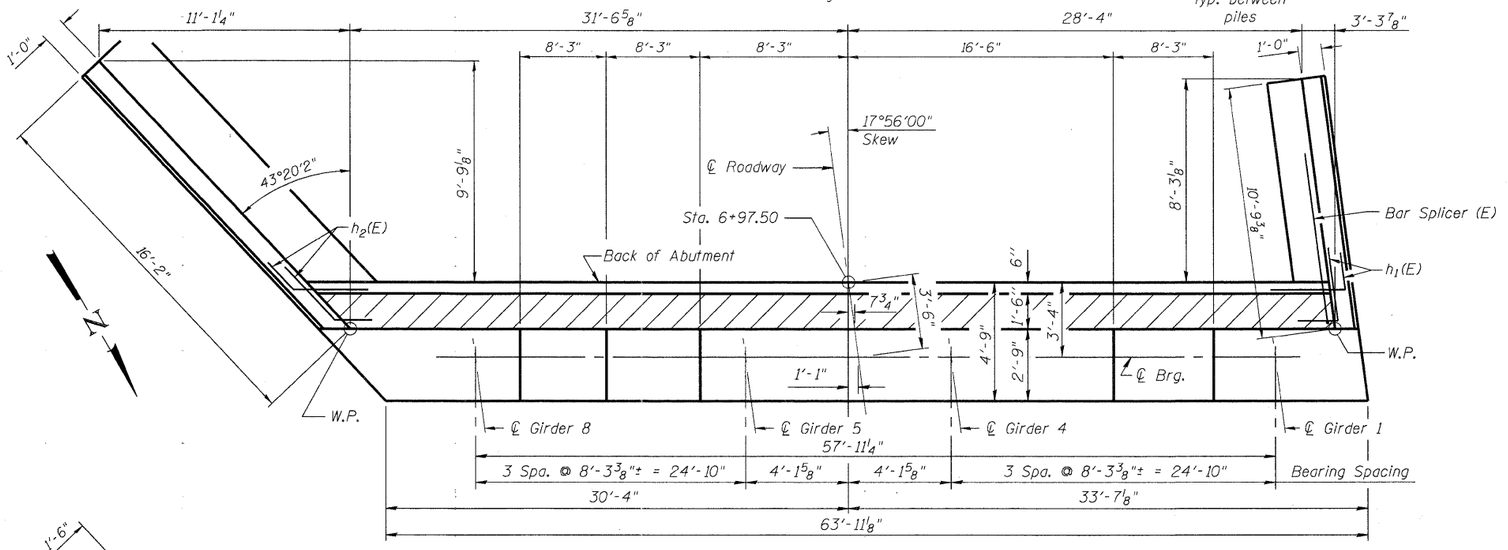
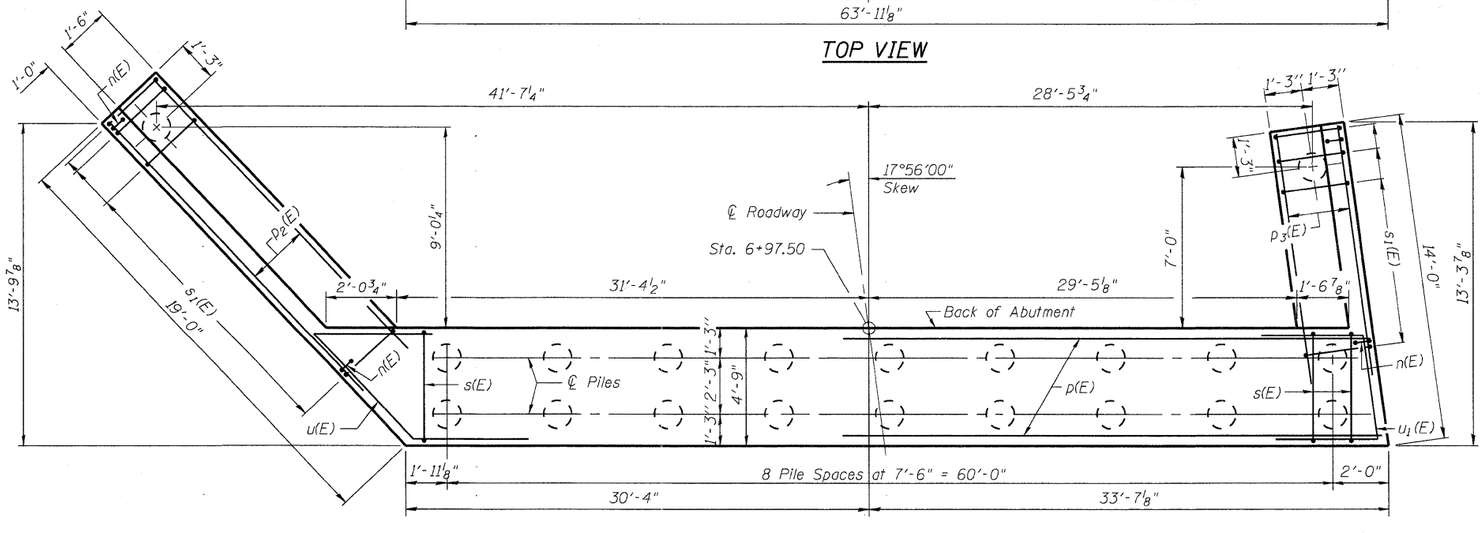


ELEVATION
(Looking Back Station)



TOP VIEW



PLAN-PILE CAP

ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	12	#5	33'-2"	
h_1(E)	14	#5	4'-7"	
h_2(E)	14	#5	6'-0"	
h_3(E)	22	#4	15'-10"	
h_4(E)	10	#6	33'-6"	
h_5(E)	22	#4	10'-5"	
n(E)	29	#6	7'-9"	
p(E)	16	#7	36'-10"	
p_1(E)	3	#7	32'-8"	
p_2(E)	6	#7	18'-6"	
p_3(E)	6	#7	13'-6"	
s(E)	58	#4	15'-11"	
s_1(E)	29	#4	9'-5"	
s_2(E)	34	#4	7'-5"	
u(E)	4	#6	18'-1"	
u_1(E)	4	#6	11'-2"	
v(E)	63	#5	3'-9"	
v_1(E)	63	#4	3'-2"	
v_2(E)	29	#6	7'-6"	
v_3(E)	29	#6	7'-6"	
v_4(E)	63	#4	5'-1"	
v_5(E)	63	#4	7'-0"	
Concrete Structures		Cu. Yd.	72.3	
Reinforcement Bars, Epoxy Coated		Pound	6,280	
Furnishing Metal Shell Piles, 12"x0.179"		Foot	1,026	
Driving Piles		Foot	1,026	
Test Pile,		Each	1	
Concrete Sealer		Sq. Ft.	685	

For details of Bar Splicers, see Sheet No. 31.
For details of piles see Sheet No. 30.

PILE DATA

Type: Metal Shell Piles 12" ϕ x .0179"
Nominal Required Bearing: 218 kips
Factored Resistance Available: 120 kips
Est. Length: 54'
No. Production Piles: 19
No. Test Piles: 1

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - SEA	REVISED -	
CHECKED - RJL	REVISED -	
DRAWN - SCS	REVISED -	
CHECKED - SEA	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT PLAN AND ELEVATION
STRUCTURE NO. 016-1101
SHEET NO. 23 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	66
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		