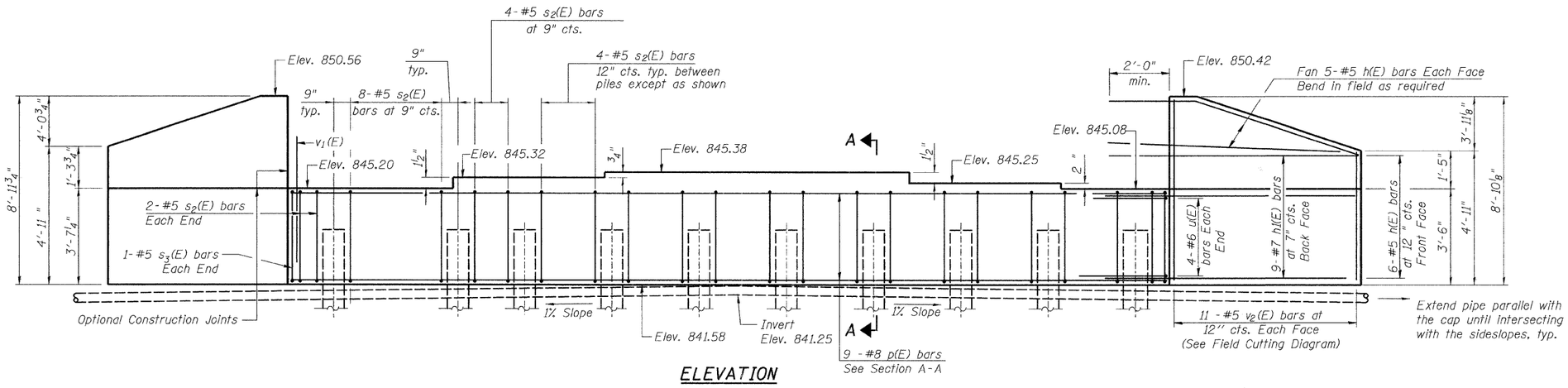
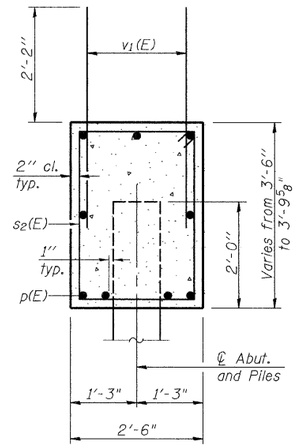
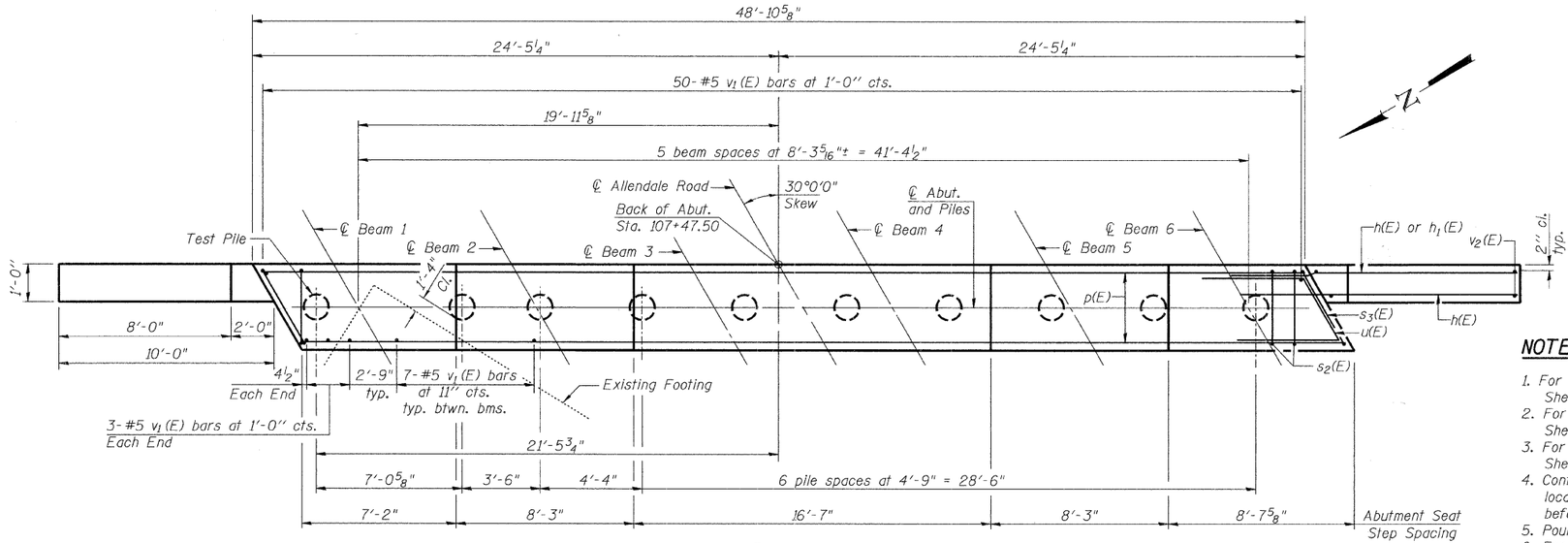
McHENRY COUNTY
DIVISION OF TRANSPORTATION



ELEVATION



SECTION A-A



PLAN

BILL OF MATERIAL

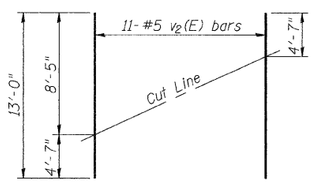
Bar	No.	Size	Length	Shape
h(E)	32	#5	12'-6"	——
h1(E)	18	#7	12'-6"	——
p(E)	9	#8	48'-6"	——
s2(E)	44	#5	11'-7"	☐
s3(E)	2	#5	12'-3"	☐
u(E)	8	#6	9'-7"	⌐
v1(E)	91	#5	4'-4"	——
v2(E)	22	#5	13'-0"	——
Porous Granular Embankment (Special)		Cu. Yd.	105	
Structure Excavation		Cu. Yd.	179	
Concrete Structures		Cu. Yd.	21.7	
Reinforcement Bars, Epoxy Coated		Pound	3,430	
Furnishing Metal Shell Piles, 14"x 0.312"		Foot	297	
Driving Piles		Foot	297	
Test Pile Metal Shells		Each	1	
Pile Shoes		Each	10	
Geocomposite Wall Drain		Sq. Yd.	64	
Pipe Underdrain for Structures, 4"		Foot	85	

NOTES:

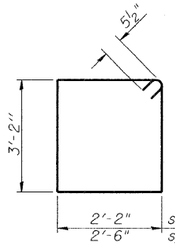
1. For details of Bar Splicers, see Sheet S-18.
2. For details of piles, see Sheet S-17.
3. For Section thru Abutment, see Sheet S-2.
4. Contractor shall verify the location of the existing footing before driving new piles.
5. Pour steps monolithic with cap.
6. For Abutment diaphragm details, see Sheet S-8.

PILE DATA

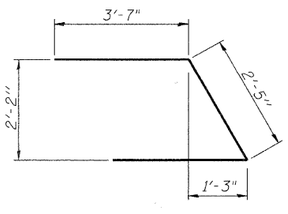
Type: Metal Shell - 14in. dia. X 0.312 in walls with pile shoes
Nominal Required Bearing: 460k
Factored Resistance Available: 230k
Est. Length: 33'
No. Production Piles: 9
No. Test Piles: 1



FIELD CUTTING DIAGRAM
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



BARS s2(E) & s3(E)



BAR u(E)

DESIGNED	AMK
CHECKED	EKM
DRAWN	RD
CHECKED	EKM

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EAST ABUTMENT
STRUCTURE NO. 056-3173

SHEET NO. S-15 OF S-20 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		05-00310-00-BR	McHENRY	44	31
			CONTRACT NO. 63114		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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N:\PROJ\33351Design\Structure\CAD\3335 15 East Abutment.dgn