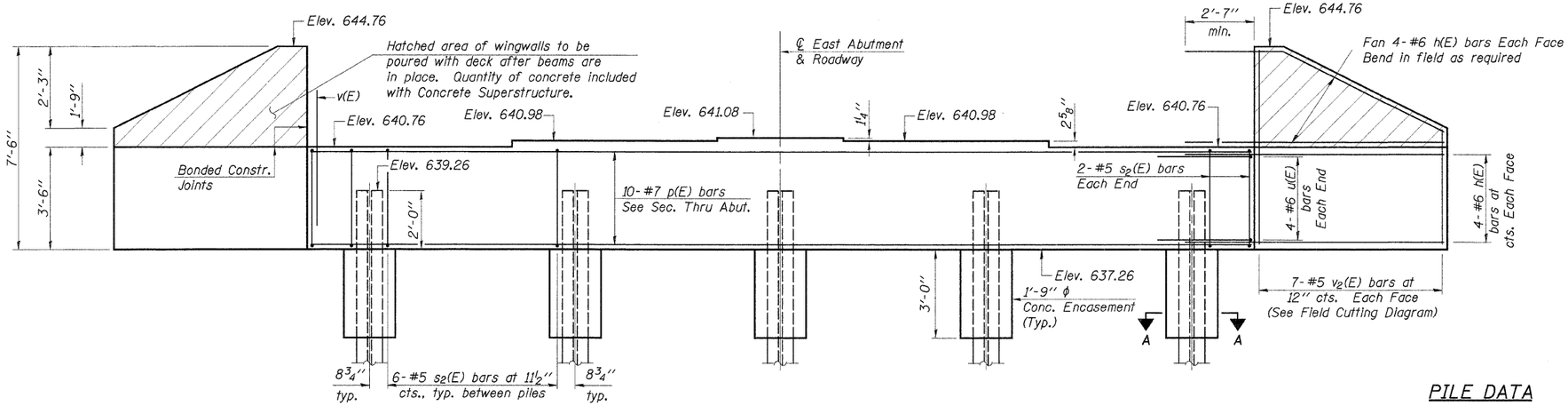
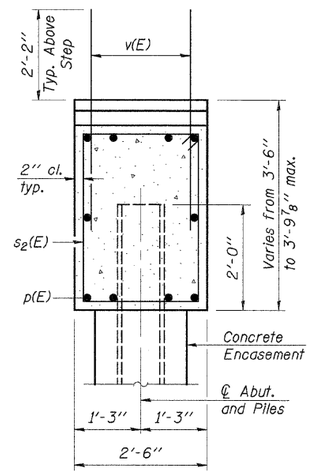
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 7 F.A.S. 376	03-00147 -01-BR	STARK	25	18
ROAD DIST.	ILLINOIS	FED. AID PROJECT		

Sheet 14 of 17 CONTRACT NO. 89452

Notes: Pour steps monolithically with cap. Reinforcement bars designated (E) shall be epoxy coated.



ELEVATION
(Looking West)



SEC. THRU ABUT.

PILE DATA

Type..... Steel HP10x42
No. Req'd..... *5
Nominal Required Bearing..... 335 kips
Allowable Resistance Available..... 112 kips
Est. Length..... 42 Feet/Pile

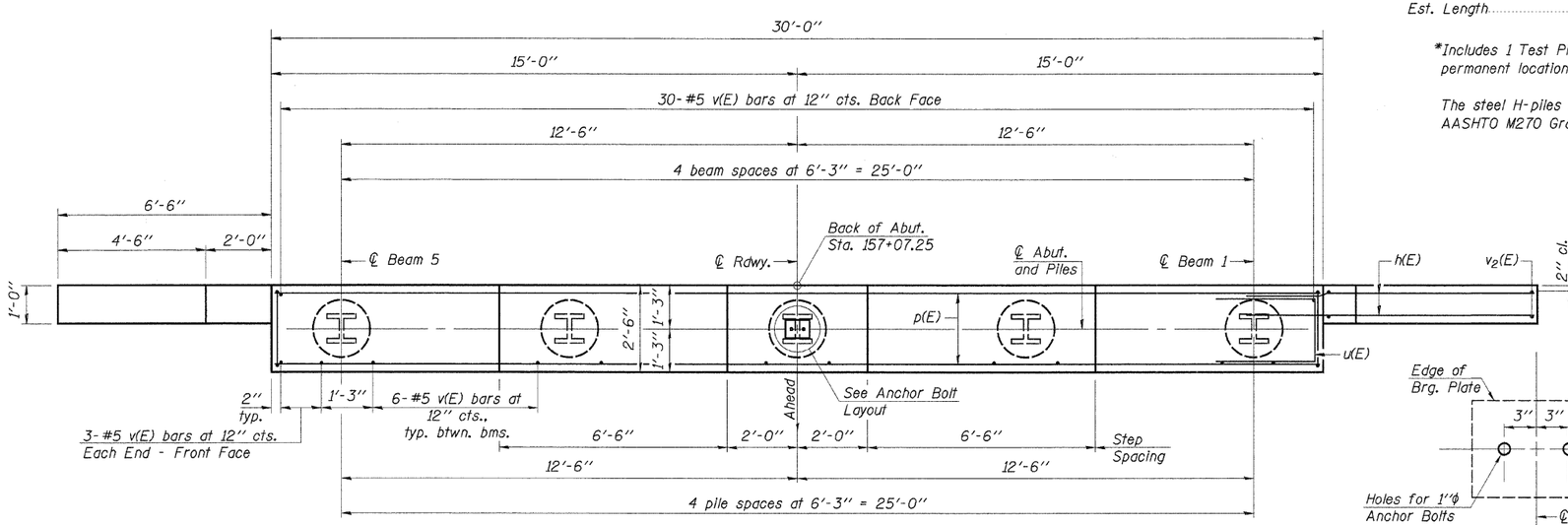
*Includes 1 Test Pile to be driven in a permanent location at the East Abutment.

The steel H-piles shall be according to AASHTO M270 Grade 50.

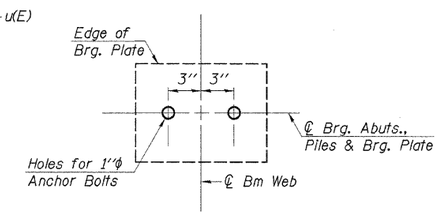
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#6	8'-11"	
p(E)	10	#7	29'-8"	
s2(E)	28	#5	11'-7"	
u(E)	8	#6	12'-1"	
v(E)	60	#5	4'-4"	
v2(E)	14	#5	12'-3"	
Concrete Structures			Cu. Yd.	11.8
Reinforcement Bars, Epoxy Coated			Pound	1,970
Structure Excavation			Cu. Yd.	125
Steel Piles HP10x42			Foot	168
Test Pile Steel HP10x42			Each	1
Concrete Encasement			Cu. Yd.	1.3
Protective Coat			Sq. Yd.	7
Porous Granular Embankment (Special)			Cu. Yd.	52
Geocomposite Wall Drain			Sq. Yd.	32
Pipe Underdrains for Structures 4"			Foot	65

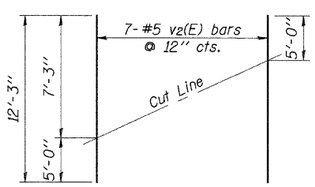
See Sheet 2 of 17 for Abutment Drainage Details.



PLAN

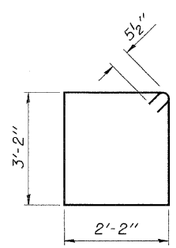


ANCHOR BOLT LAYOUT

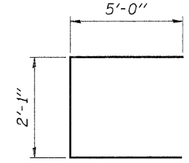


FIELD CUTTING DIAGRAM

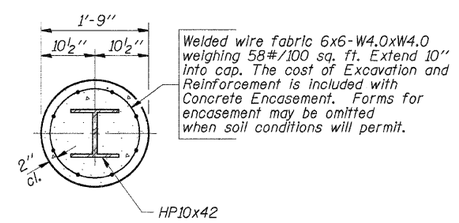
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s2(E)



BAR u(E)



Welded wire fabric 6x6-W4.0xW4.0 weighing 58#/100 sq. ft. Extend 10" into cap. The cost of Excavation and Reinforcement is included with Concrete Encasement. Forms for encasement may be omitted when soil conditions will permit.

SECTION A-A

DESIGNED	A.R.K.
CHECKED	F.J.S. & S.F.M.
DRAWN	S.A.P.
CHECKED	A.R.K. & F.J.S.

AI-0 9-01-03

EAST ABUTMENT

SECTION 03-00147-01-BR
COUNTY HIGHWAY 7
STARK COUNTY
STATION 155+75

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SPRINGFIELD, IL 62711
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oasinc@insightbb.com

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
FREEPORT, IL ROCKFORD, IL ROCHELLE, IL MORRIS, IL SPRINGFIELD, IL

JOB NO.: 46808
FILE: 46808ABUT2.DGN
DATE: 10/04/07