ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 287	*	GRUNDY	33	23
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 18
25 SHEETS

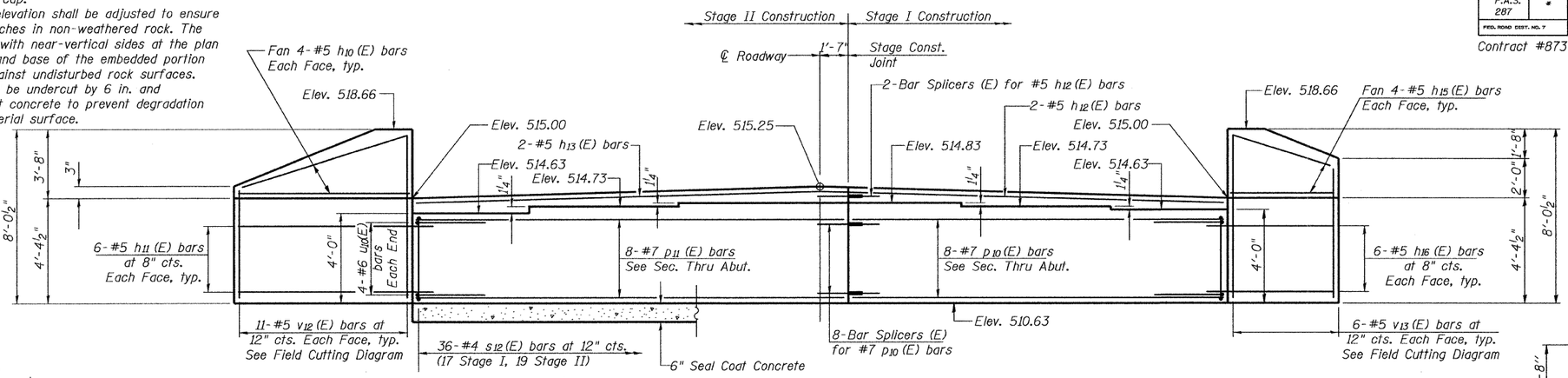
Contract #87376 *05-00039-03-BR

NOTES

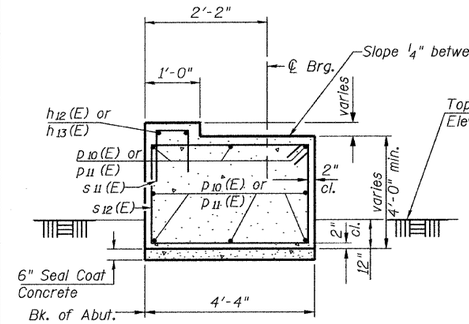
Pour steps monolithically with cap.

The bottom of the abutment elevation shall be adjusted to ensure a minimum embedment of 12 inches in non-weathered rock. The rock excavation shall be made with near-vertical sides at the plan dimensions to allow the sides and base of the embedded portion of the abutment to be cast against undisturbed rock surfaces.

The abutment excavation shall be undercut by 6 in. and immediately filled with seal coat concrete to prevent degradation of the exposed foundation material surface.

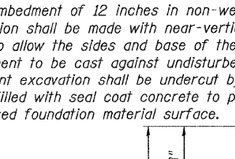


ELEVATION
(Looking East)



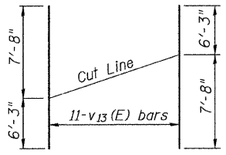
SECTION THRU ABUTMENT

Applied bearing pressure, Qmax = 3.8 ksf



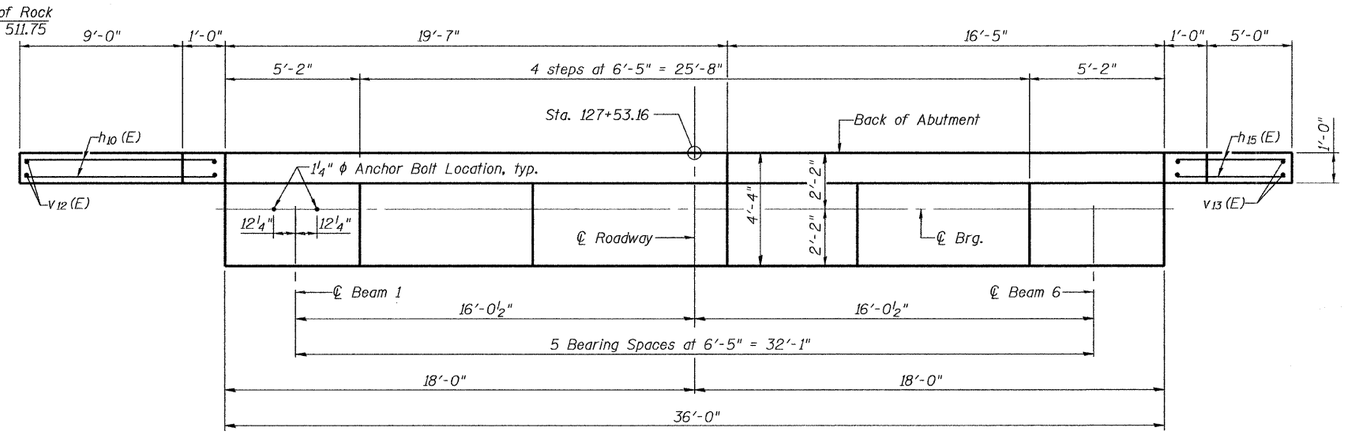
FIELD CUTTING DIAGRAM

Order v12 (E) bars full length. Cut as shown and use remainder of bars in opposite face.

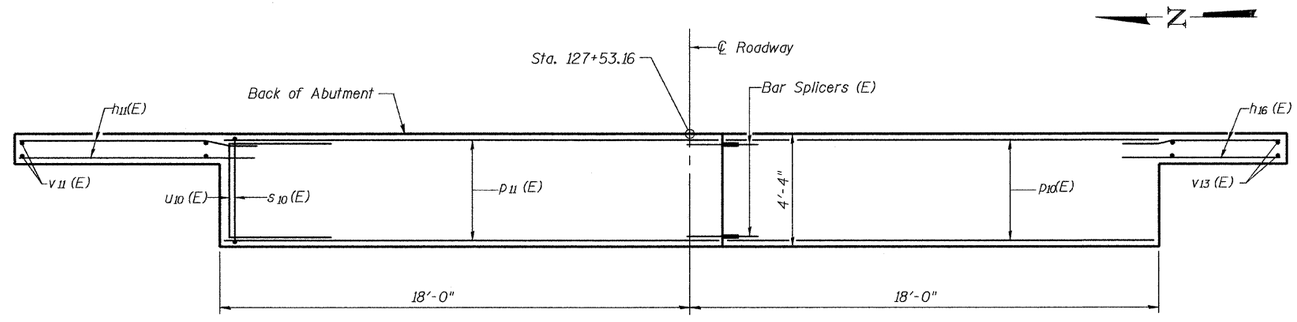


FIELD CUTTING DIAGRAM

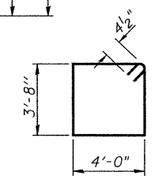
Order v13 (E) bars full length. Cut as shown and use remainder of bars in opposite face.



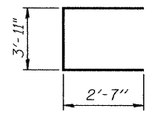
TOP VIEW



PLAN



BAR s12 (E)



BAR u10 (E)

ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h10 (E)	8	#5	9'-8"	——
h11 (E)	12	#5	11'-6"	——
h12 (E)	2	#5	16'-1"	——
h13 (E)	2	#5	19'-3"	——
h15 (E)	8	#5	5'-8"	——
h16 (E)	12	#5	7'-6"	——
p10 (E)	8	#7	16'-1"	——
p11 (E)	8	#7	19'-3"	——
s12 (E)	33	#4	16'-1"	□
u10 (E)	8	#6	9'-1"	⊐
v12 (E)	11	#5	11'-11"	——
v13 (E)	6	#5	13'-11"	——
Structure Excavation		Cu. Yd.	34.0	
Concrete Structures		Cu. Yd.	28.2	
Seal Coat Concrete		Cu. Yd.	2.9	
Reinforcement Bars, Epoxy Coated		Pound	1710	
Bar Splicers		Each	10	
Rock Excavation for Structures		Cu. Yd.	10.2	

For details of Bar Splicers, see sheet 22 of 25.
For details of piles and Concrete Encasement, see sheet 21 of 25.

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE
EAST ABUTMENT

PROJECT
F.A.S. RT. 287 (C.H. 29)
SECTION 05-00039-03-BR
GRUNDY COUNTY
STATION 126+42.00
STRUCTURE NO. 032-3101

PROJECT NO. 05042
SCALE
DATE 8/27/09
DRAWN BY TFG
CHECKED BY MCB/CME
DRAWING NO. 18 OF 25 SHTS

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

PLOT DATE = 8/27/2009
FILE NAME = ...\v8\br10gr-plans\sht-18.dgn
PLOT SCALE = 0.1000000 '=' / IN.
USER NAME = PTM...

A-1 5-16-08