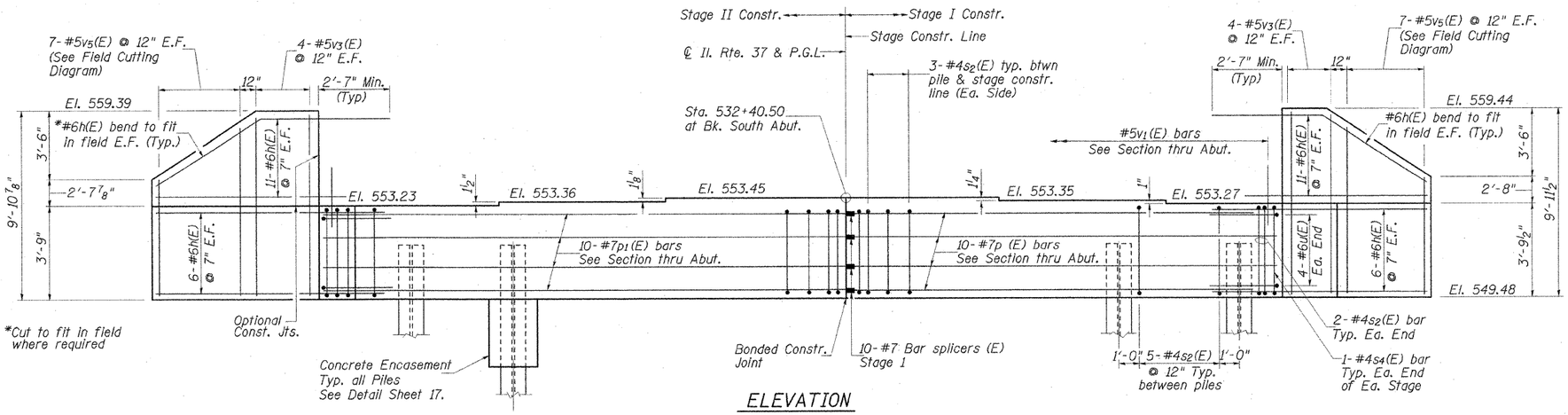
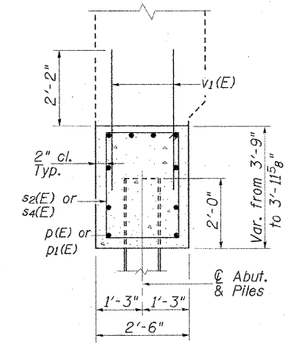
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
726	113B-2	WILLIAMSON	87	84
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

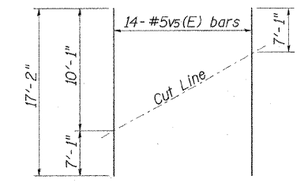
Contract 98777 SHEET 15 OF 18



ELEVATION

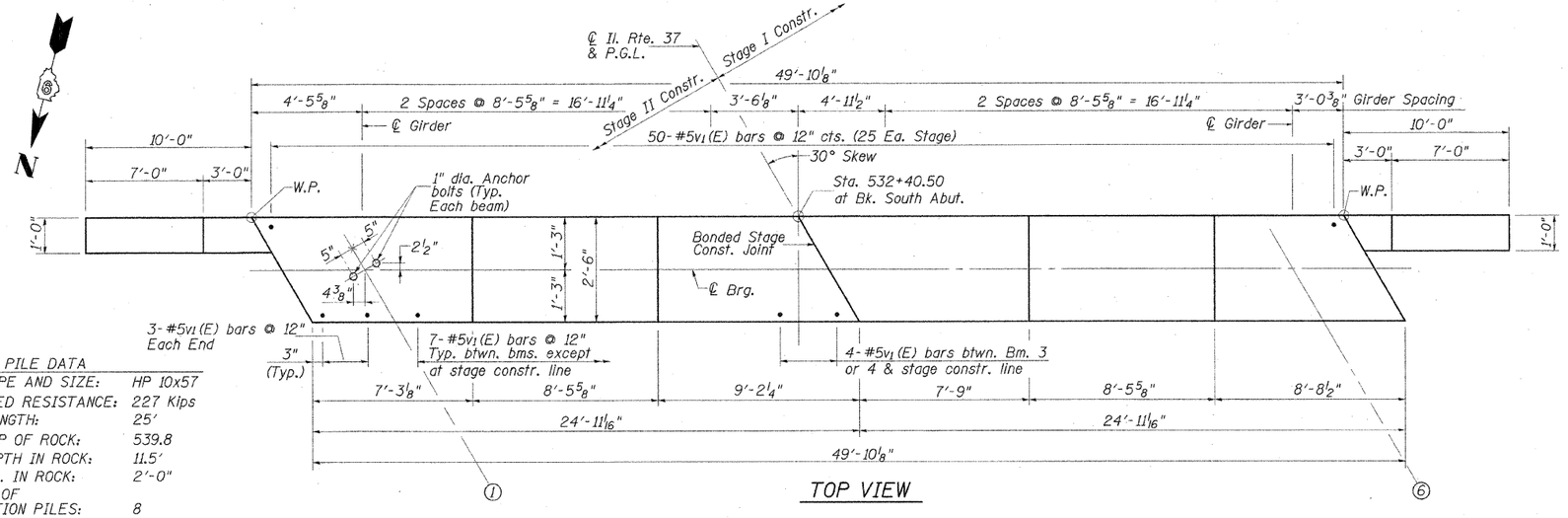


SECTION THRU ABUTMENT



FIELD CUTTING DIAGRAM

Order v_5(E) full length. Cut as shown and use remainder of bars in opposite face.

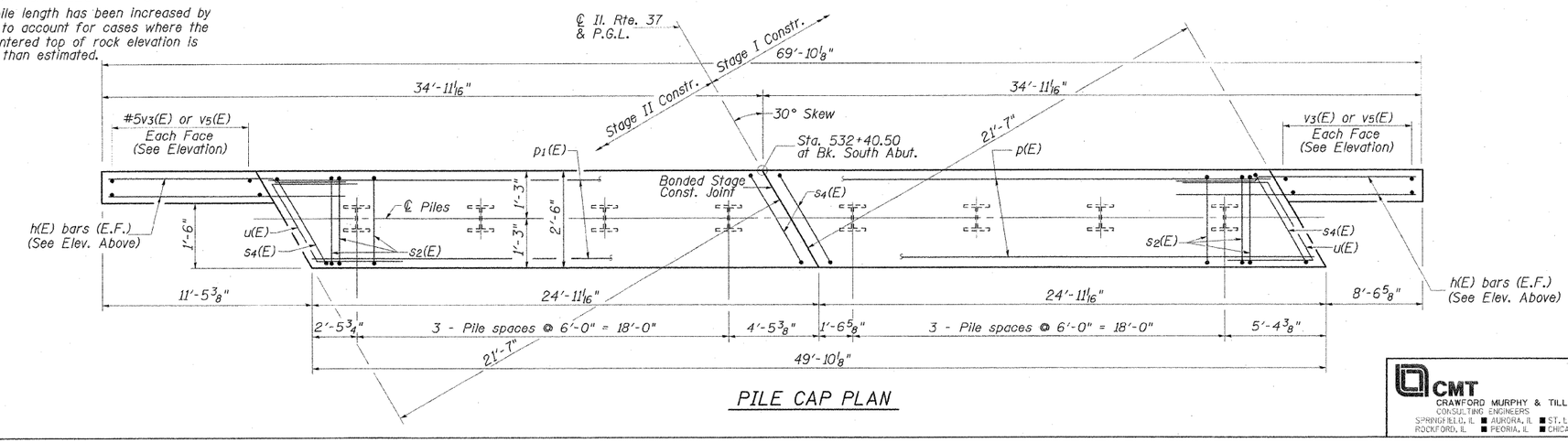


TOP VIEW

PILE DATA

PILE TYPE AND SIZE:	HP 10x57
FACTORED RESISTANCE:	227 Kips
*PILE LENGTH:	25'
EST. TOP OF ROCK:	539.8
MIN. DEPTH IN ROCK:	11.5'
MIN. DIA. IN ROCK:	2'-0"
NUMBER OF PRODUCTION PILES:	8

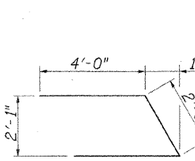
*The pile length has been increased by 2 ft. to account for cases where the encountered top of rock elevation is lower than estimated.



PILE CAP PLAN

SOUTH ABUT. BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	68	#6	13'-6"	——
p (E)	10	#7	24'-5"	——
p1(E)	10	#7	24'-7"	——
s2 (E)	40	#4	11'-11"	⌐
s4 (E)	4	#4	12'-7"	⌐
u (E)	8	#6	10'-5"	◺
v1 (E)	92	#5	4'-4"	——
v3 (E)	16	#5	9'-7"	——
v5 (E)	14	#5	17'-2"	——
Concrete Structures		Cu. Yd.	24.3	
Concrete Encasement		Cu. Yd.	2.8	
Reinforcement Bars, Epoxy Coated		Pound	3690	
Structure Excavation		Cu. Yd.	226	
Bar Splicers		Each	10	
Furnishing Steel Piles HP 10x57		Foot	200	
Setting Piles in Rock		Each	8	



BAR s2(E) & s4(E)

BAR u (E)

NOTES:

1. Pour steps monolithically with cap.
2. Space reinforcement to miss anchor bolts.
3. See Sheet 2 of 18 for abutment backfill requirements.
4. See Sheet 16 of 18 for bar splicer details.

REVISIONS	
NAME	DATE

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT

F.A.P. ROUTE 726 (IL. RTE. 37)
ILLINOIS ROUTE 37 OVER
LITTLE SALINE CREEK
SECTION 113B-2 STA. 531+81.00
STR. NO. 100-0091 - WILLIAMSON COUNTY

SCALE: NONE DRAWN BY: GLD
DATE: 12/14/07 CHECKED BY: WLB

L:\EDOT\060660\SN_100091\drawings\sheets\SOUTH ABUTMENT.dgn
12/5/2007