



ANCHOR BOLT DETAIL

PILE DATA
 Type: HP12x53
 Nominal Required Bearing: 331 kips
 Factored Resistance Available: 182 kips
 Est. Length: 76 ft.
 No. Production Piles: 6
 No. Test Piles: 1

FIELD CUTTING DIAGRAM
 Order v3(E), v6(E) and h1(E) full length. Cut as shown and use remainder of bars in opposite face.

PLAN

BARS s2(E) & s3(E)

BARS s4(E) & s5(E)

BARS s6(E) & s7(E)

BAR v2(E)

SEC. THRU ABUT.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#6	12'-5"	—
h1(E)	6	#6	19'-11"	—
h2(E)	4	#6	10'-2"	—
p(E)	8	#7	36'-11"	—
p1(E)	8	#5	20'-1"	—
p3(E)	4	#5	7'-9"	—
s2(E)	32	#5	13'-3"	□
s3(E)	2	#5	13'-11"	□
s4(E)	64	#5	4'-4"	□
s5(E)	8	#5	4'-8"	□
s6(E)	9	#5	6'-10"	□
s7(E)	4	#5	9'-2"	□
u(E)	8	#6	10'-10"	□
v1(E)	38	#8	6'-6"	—
v2(E)	38	#8	7'-7"	—
v3(E)	11	#5	11'-10"	—
v6(E)	11	#5	12'-4"	—
Concrete Structures	Cu. Yd.		21.8	
Reinforcement Bars, Epoxy Coated	Pound		4,530	
Furnishing Steel Piles HP12x53	Foot		456	
Driving Piles	Foot		456	
Test Pile Steel HP12x53	Each		1	

NOTES:

- For details of piles, see sheet SA30.
- Pour steps monolithically with cap.
- Adjust s7(E) bars in field to form a single closed stirrup between the s2(E) bar and the s3(E) bar.
- h1(E) or h2(E) bars shall not be embedded in the approach slab.
- Adjust bar spacing to avoid anchor bolt locations.

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FILE NAME =	USER NAME = mbecker	DESIGNED - DTS	REVISED -
0900165.68620.27.abut4.dgn		CHECKED - SLD	REVISED -
		PLOT SCALE =	REVISED -
		PLOT DATE = 7/16/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SB SOUTH ABUTMENT DETAILS
STRUCTURE NO. 090-0165 / 0166

SHEET NO. SA27 OF SA47 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-[14R]14HB-4,14,14HV[B]R	TAZEWELL	2433	1891
CONTRACT NO. 68620				
ILLINOIS FED. AID PROJECT				

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