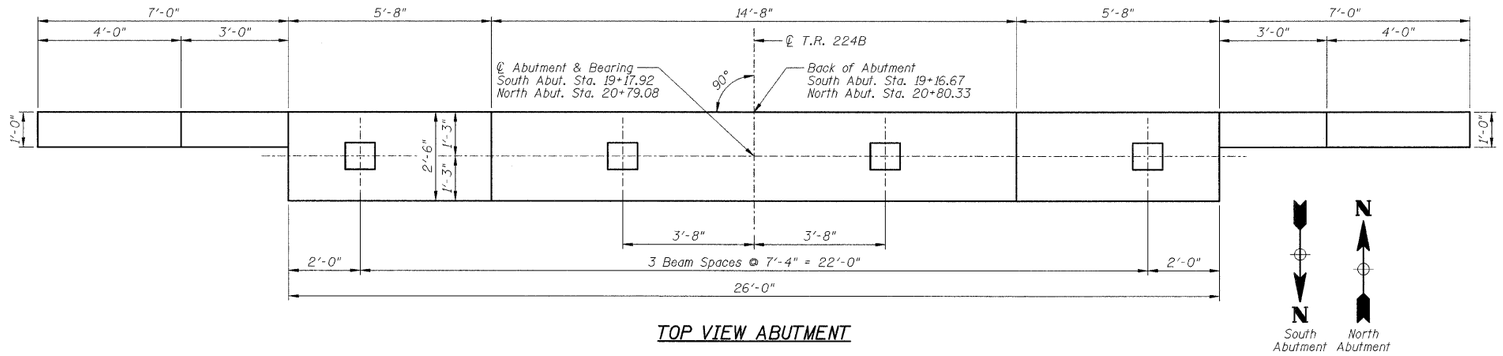
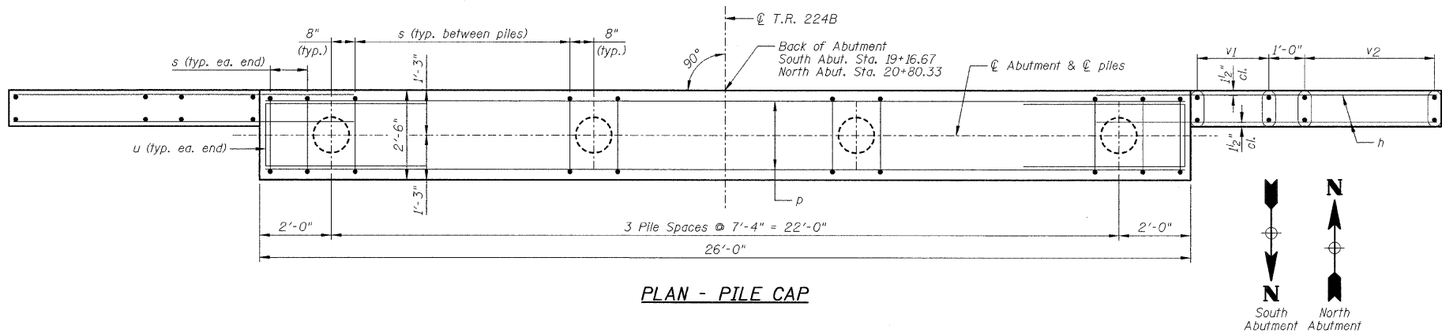
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-26140-00-BR 03-21117-00-BR	LIVINGSTON	28	20
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT*	

CONTRACT NO. 87360

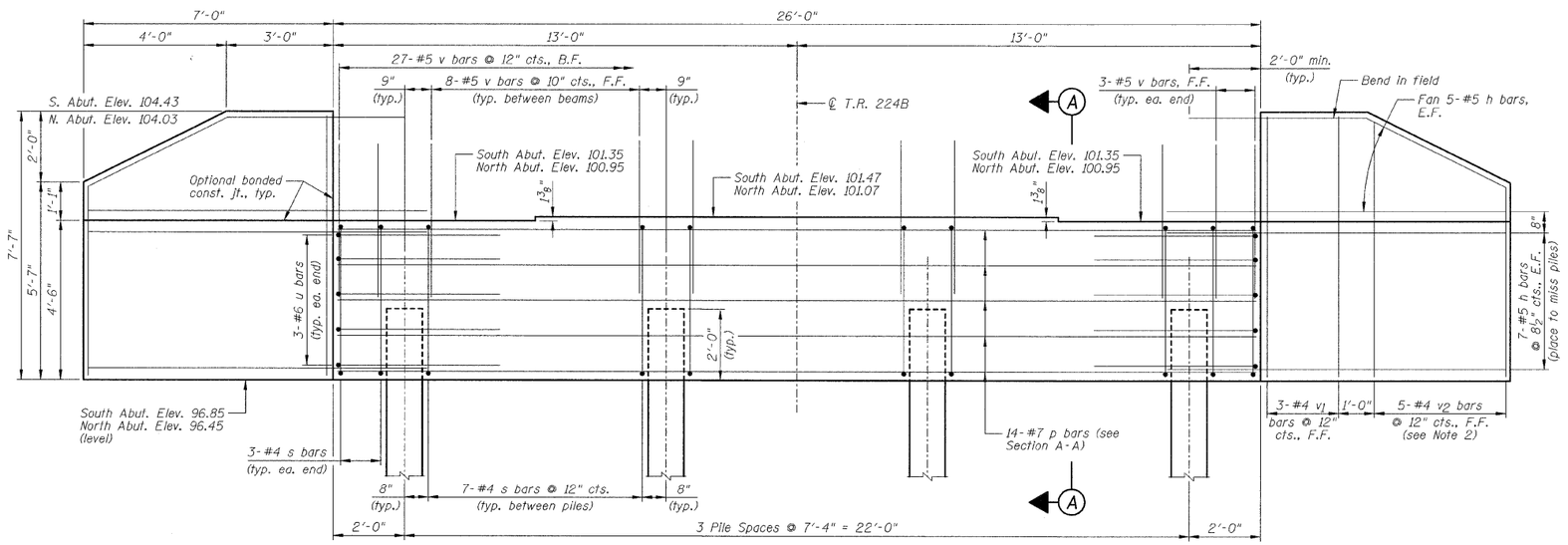
SHEET NO. B13 OF 17 SHEETS



TOP VIEW ABUTMENT

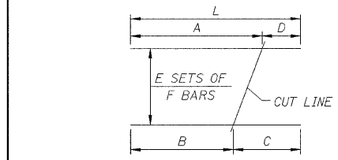


PLAN - PILE CAP



ABUTMENT ELEVATION

BAR CUTTING DIAGRAMS



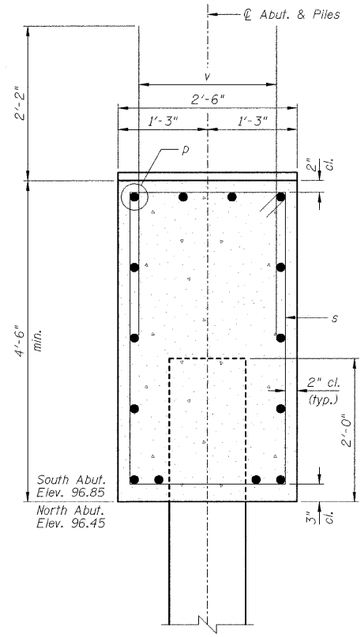
BAR	A	B	C	D	E	F	L
v2	7'-1"	5'-3"	7'-1"	5'-3"	4	5	12'-4"

BILL OF MATERIALS - ABUTMENTS

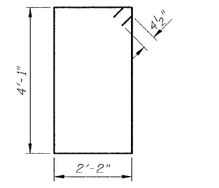
(Quantities for 2 Abutments)

Bar	No.	Size	Length	Shape
h	96	#5	9'-6"	
p	28	#7	25'-8"	
s	54	#4	13'-3"	
u	12	#6	11'-1"	
v	114	#5	4'-4"	
v1	24	#4	7'-3"	
v2	20	#4	12'-4"	

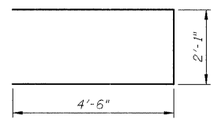
Item	Unit	Quantity
Porous Granular Embankment, Special	Ton	250
Concrete Structures	Cu. Yd.	28.8
Reinforcement Bars, Epoxy Coated	Pound	3900
Furnishing Metal Shell Piles 12"x0.250"	Foot	329
Test Pile Metal Shells	Each	1
Geocomposite Wall Drain	Each	68
Pipe Underdrains For Structures 4"	Each	116



SECTION A-A



s BAR



u BAR

PILE DATA

(2 Abutments)

Type: Metal Shell 12" x 0.250"
No. Req'd.: 7+1 Test Pile
Est. Length: 47 Feet
Nom. Req. Brg.: 300 kips
Allowable Res. Avail.: 100 kips

NOTES:

1.) Work this sheet with Sheets B7 & B15.
2.) Order v2 bars full length. Cut according to Bar Cutting Diagram. Use remainder of v2 bars in opposite face.
3.) Pour steps monolithically with cap.
4.) For pile details, see Sheet B15.
5.) Drive Test Pile in North Abutment.

SECTION 03-26140-00-BR
SECTION 03-21117-00-BR
LIVINGSTON COUNTY

ABUTMENTS

DESIGNED BY	Farnsworth GROUP	FILE NO.
S.D.H.	2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-8571 fax	24-7191
DRAWN BY D.J.M.		DATE 03/17/09
CHECKED BY M.S.W.		SHEET NO. 20 OF 28