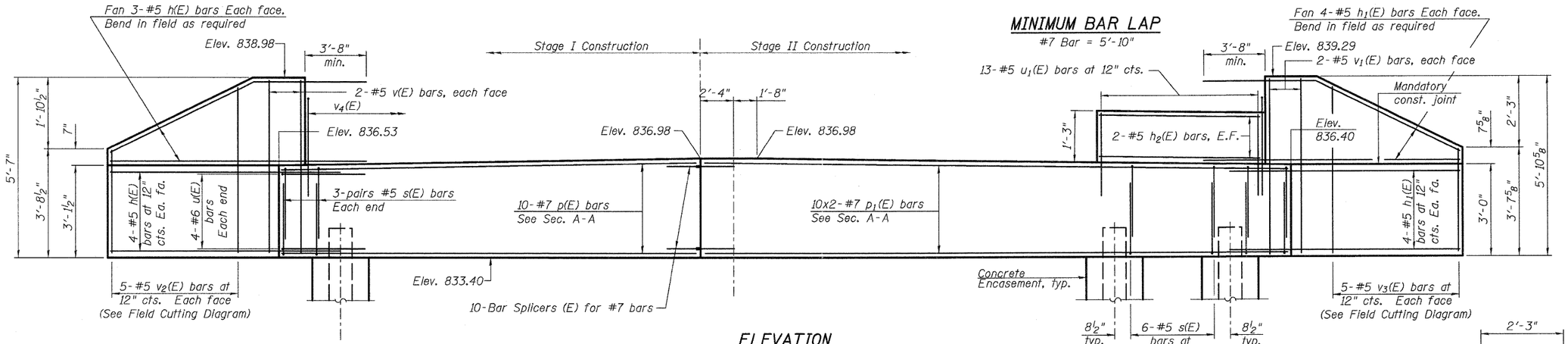
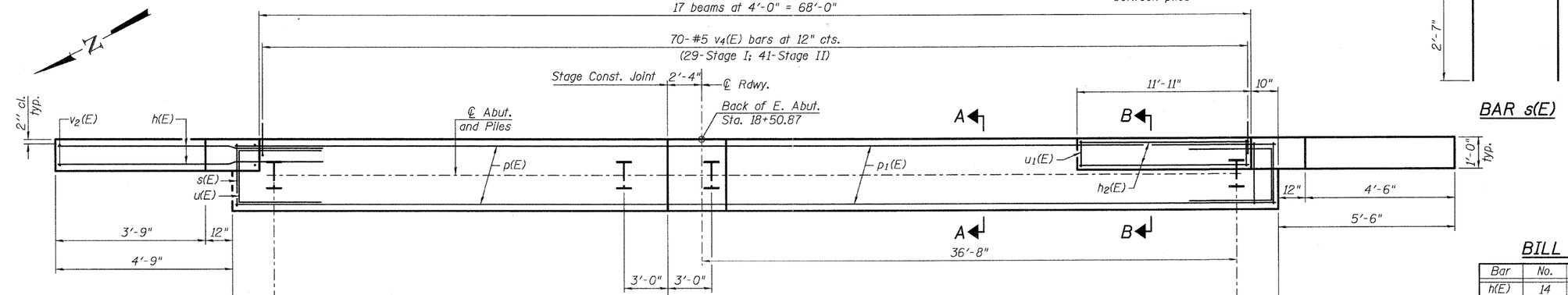
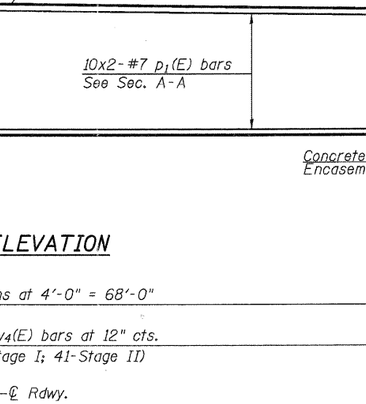
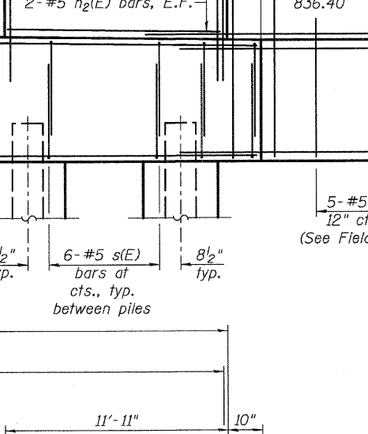
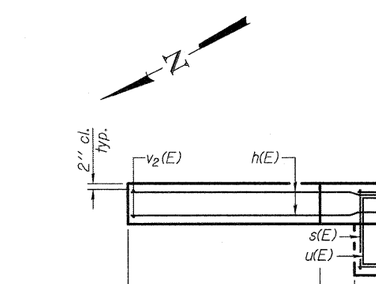








Note: See Roadway plans for sidewalk details.

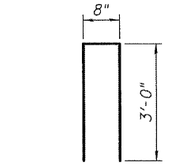


FIELD CUTTING DIAGRAM

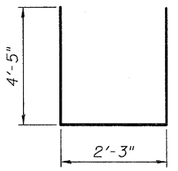
Order $v_2(E)$ bars full length. Cut as shown and use remainder of bars in opposite face.

FIELD CUTTING DIAGRAM

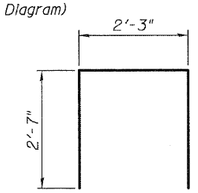
Order $v_3(E)$ bars full length. Cut as shown and use remainder of bars in opposite face.



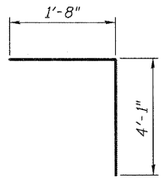
BAR $u_1(E)$



BAR u(E)



BAR s(E)



BAR $v_4(E)$

PILE DATA

Type: Steel HP 12x53
Nominal Required Bearing: 248k
Factored Resistance Available: 137k
Est. Length: 34'
No. Production Piles: 11
No. Test Piles: 1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	14	#5	9'-5"	——
$h_1(E)$	16	#5	10'-4"	——
$h_2(E)$	4	#5	11'-7"	——
p(E)	10	#7	28'-6"	——
$p_1(E)$	20	#7	23'-2"	——
s(E)	144	#5	7'-5"	⊓
u(E)	8	#6	11'-1"	⊐
$u_1(E)$	13	#5	6'-8"	⊓
v(E)	4	#5	5'-3"	——
$v_1(E)$	4	#5	5'-7"	——
$v_2(E)$	5	#5	8'-7"	——
$v_3(E)$	5	#5	8'-9"	——
$v_4(E)$	70	#5	5'-9"	⌐
Structure Excavation		Cu. Yd.	120	
Concrete Structures		Cu. Yd.	24.8	
Reinforcement Bars, Epoxy Coated		Pound	3,780	
Furnishing Steel Piles, HP 12x53		Foot	374	
Driving Piles		Foot	374	
Test Pile Steel, HP 12x53		Each	1	
Concrete Encasement		Cu. Yd.	4.2	

For details of Bar Splicers, see sheet 20 of 24.

For details of piles and Concrete Encasement, see sheet 19 of 24.

WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

USER NAME = *USER*	DESIGNED - MLH	REVISED -	
	CHECKED - AEU	REVISED -	
PLOT SCALE =	DRAWN - AWH	REVISED -	
PLOT DATE = 7/6/2011	CHECKED - AEU	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 019-6107
SHEET NO. 17 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	63
		CONTRACT NO.87491		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FILE NAME = W:\Projects\2010\100054 Bethesda Br-Lead\Structural\Dgn\019107-87491-017-EastAbut.dgn