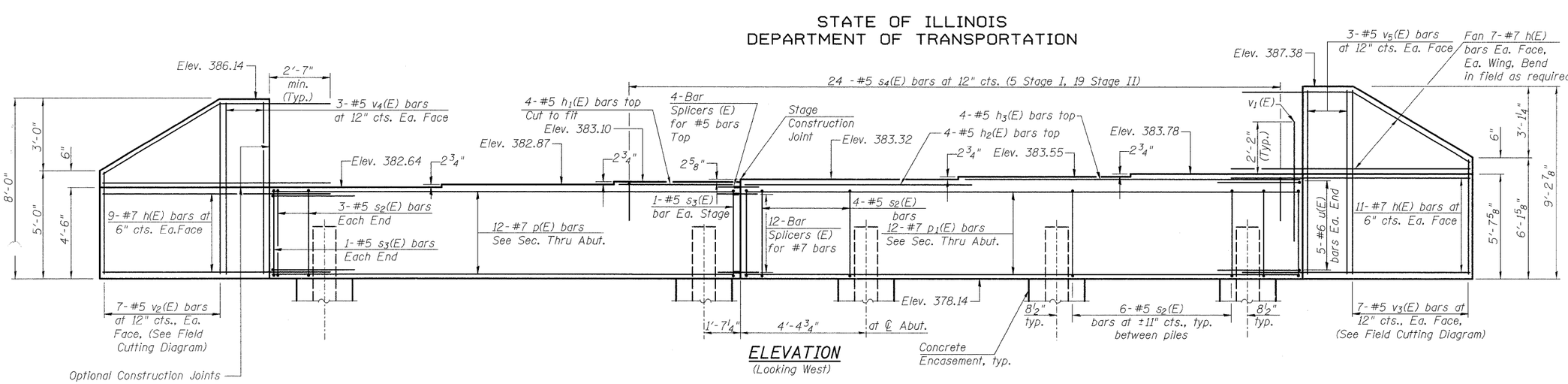
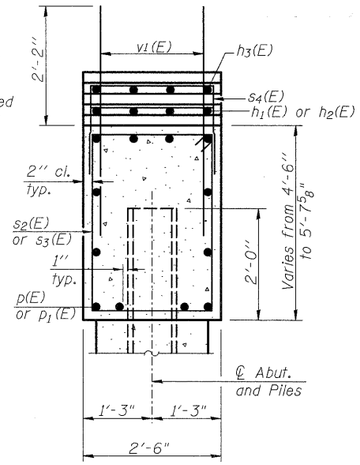
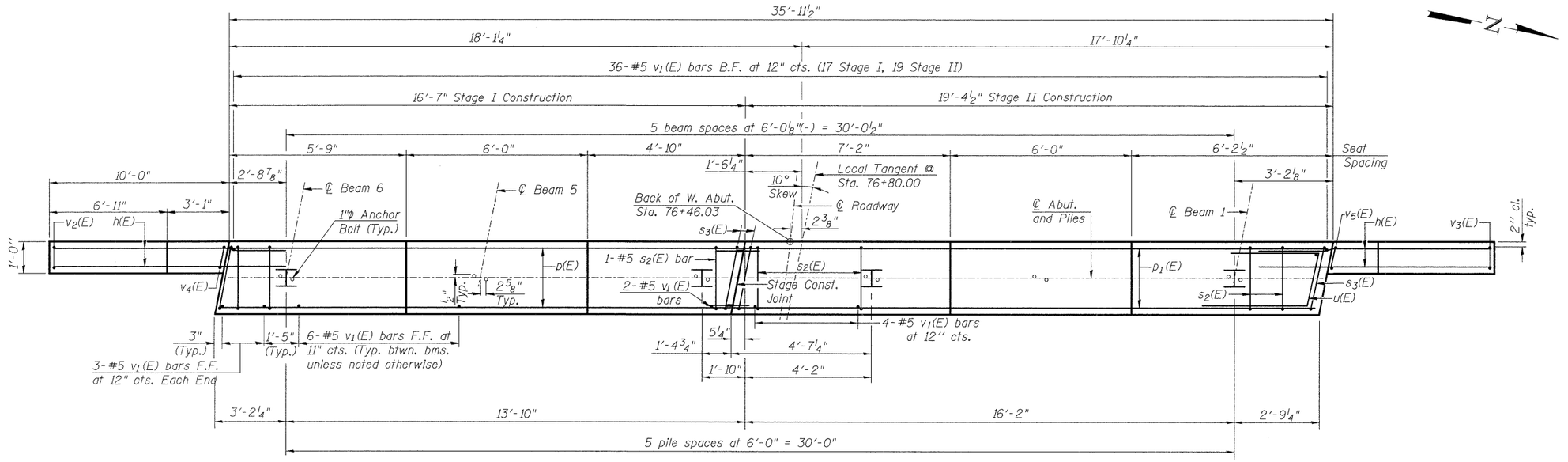
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION
(Looking West)



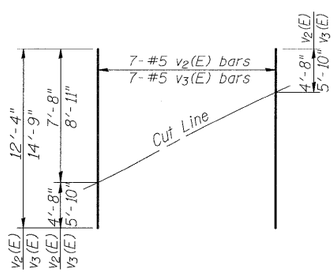
SEC. THRU ABUT.
(Dimensions at Rt. L's)



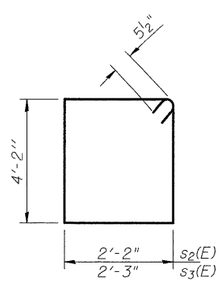
PLAN

BILL OF MATERIAL
(West Abutment)

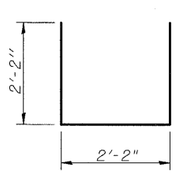
Bar	No.	Size	Length	Shape
h(E)	68	#7	12'-6"	——
h_1(E)	4	#5	4'-6"	——
h_2(E)	4	#5	8'-0"	——
h_3(E)	4	#5	11'-5"	——
p(E)	12	#7	16'-3"	——
p_1(E)	12	#7	19'-1"	——
s_2(E)	35	#5	13'-7"	□
s_3(E)	4	#5	13'-9"	□
s_4(E)	24	#5	6'-6"	□
u(E)	10	#6	7'-11"	⌐
v_1(E)	72	#5	4'-4"	——
v_2(E)	7	#5	12'-4"	——
v_3(E)	7	#5	14'-9"	——
v_4(E)	6	#5	7'-8"	——
v_5(E)	6	#5	8'-11"	——
Structure Excavation	Cu. Yd.	135		
Concrete Structures	Cu. Yd.	22.5		
Reinforcement Bars, Epoxy Coated	Pound	4170		
Furnishing Steel Piles HP12x63	Foot	162		
Driving Piles	Foot	162		
Pile Shoes	Each	6		
Concrete Encasement	Cu. Yd.	2.1		
Anchor Bolts, 1"	Each	12		



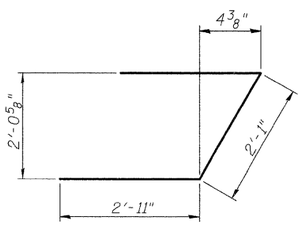
FIELD CUTTING DIAGRAM
Order v_2(E) and v_3(E) full length. Cut as shown and use remainder of bars in opposite face.



BARS s_2(E) & s_3(E)



BARS s_4(E)



BAR u(E)

Notes:
Pour steps monolithically with cap.
Space reinforcement in cap to miss Anchor Bolts.

PILE DATA

Type: Steel HP12x63 with Pile shoes
Nominal Required Bearing: 497 kips
Factored Resistance Available: 249 kips
Est. Length: 27'
No. Production Piles: 6

For details of Bar Splicers, see sheet 13 of 18.
For details of Piles and Concrete Encasement, see sheet 14 of 18.
For details of Integral Abutment Bearing, see sheet 9 of 18.
For drainage details, see Section Thru Integral Abutment on sheet 2 of 18.

WEST ABUTMENT
IL 34/146 OVER
THREE MILE CREEK
STATION 76+80.00

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois

Designed By: ESH	Checked By: MTH	Drawn By: ESH
Date: 8/2008	File: 035-0015.dgn	

SHEET NO. 10
18 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	5B-1	Hardin	48	23
	S.N. 035-0015	CONTRACT NO. 98949		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

D-99-016-06