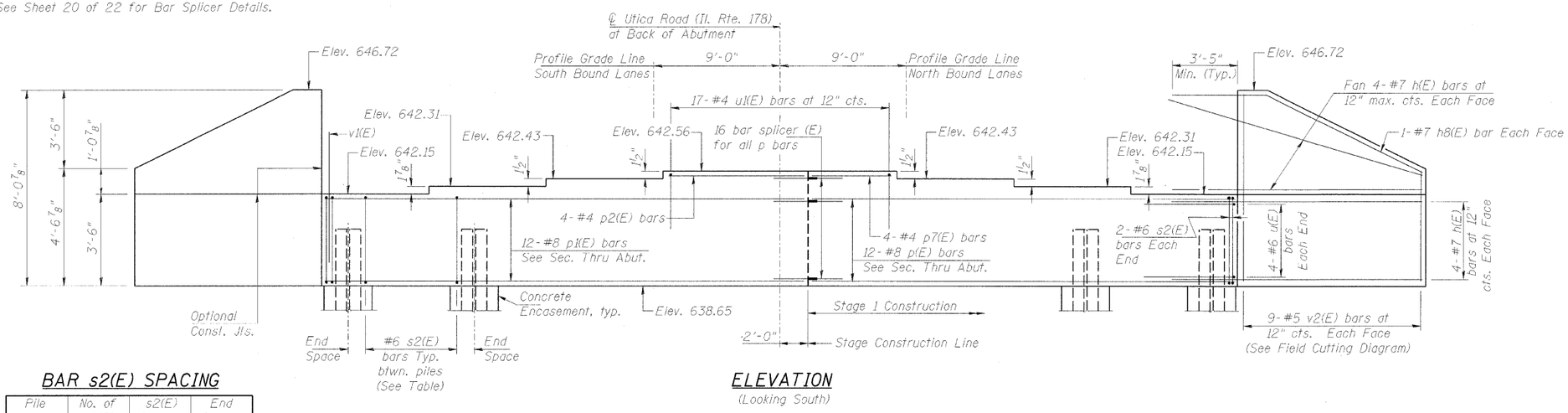
Notes:
Pour steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.
Bars indicated thus, 4x2-#4 etc. Indicates 4 lines of bars with 2 lengths per line.
See Sheet 20 of 22 for Bar Splicer Details.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. Rte. 5120	*	LaSALLE	492	285
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

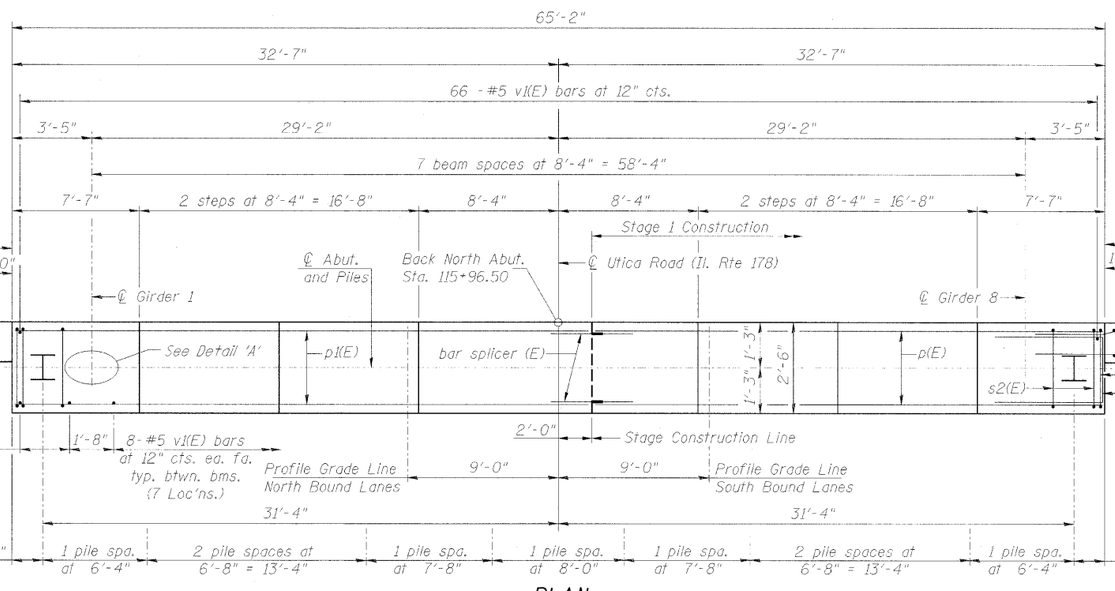
SHEET NO. 17
22 SHEETS
*50-3HBK
CONTRACT NO. 66542



ELEVATION
(Looking South)

BAR s2(E) SPACING

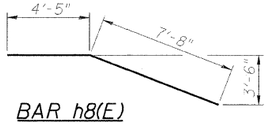
Pile Spacing	No. of s2(E)	s2(E) Spacing	End Spaces
6'-4"	6	11"	10½"
6'-8"	7	11"	7"
7'-8"	8	11"	7½"
8'-0"	8	11"	9½"



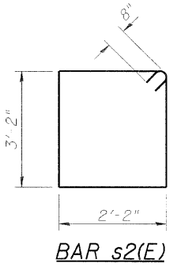
PLAN

MIN. BAR LAPS

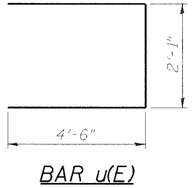
#4 bar - 1'-8"
#5 bar - 2'-2"
#6 bar - 2'-7"
#8 bar - 4'-6"



BAR h8(E)

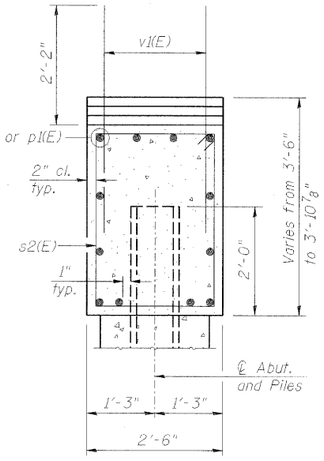


BAR s2(E)



BAR u(E)

BAR u1(E)

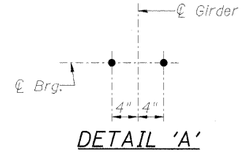


SECTION THRU ABUTMENT

BILL OF MATERIAL
NORTH ABUTMENT

Bar	No.	Size	Length	Shape
h(E)	32	#7	11'-3"	
h8(E)	4	#7	12'-1"	
p(E)	12	#8	30'-3"	
p1(E)	12	#8	34'-3"	
p2(E)	4	#4	10'-0"	
p7(E)	4	#4	6'-0"	
s2(E)	120	#6	12'-0"	
u(E)	8	#6	11'-1"	
u1(E)	17	#4	6'-6"	
v1(E)	124	#5	4'-4"	
v2(E)	68	#5	12'-0"	
Concrete Structures		Cu. Yd.	26.3	
Reinforcement Bars, Epoxy Coated		Pound	6730	
Structure Excavation		Cu. Yd.	162	
Furnishing Steel Piles HP12x53		Ft.	468	
Driving Piles		Ft.	468	
Test Piles Steel HP12x53		Each	1	
Concrete Encasement		Cu. Yd.	3.5	

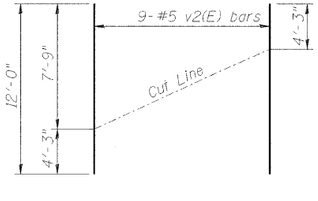
Note:
For details of piles and encasement, see Sheet 19 of 22.



DETAIL 'A'

PILE DATA

Type:	Steel HP12x53
Nominal Required Bearing:	419 kips
Allowable Resistance Available:	140 kips
Est. Length: .	52 ft.
No. of Production Piles:	9
No. of Test Piles:	1



FIELD CUTTING DIAGRAM

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

NORTH ABUTMENT
UTICA ROAD (IL. RTE. 178) over F.A.I. ROUTE 80
SECTION 50-3HBK
LaSALLE COUNTY
STATION 115+00.00
STRUCTURE NO. 050-0248

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HANSON

JOB NO. 05S2015
DATE 10/12/09

LAYOUT	MNW	11/16/05
DESIGN	RMG	1/15/07
REVIEWED	JJT	1/15/01

12/23/2009
C:\PW_EXPERT\S-101F-P00.dgn