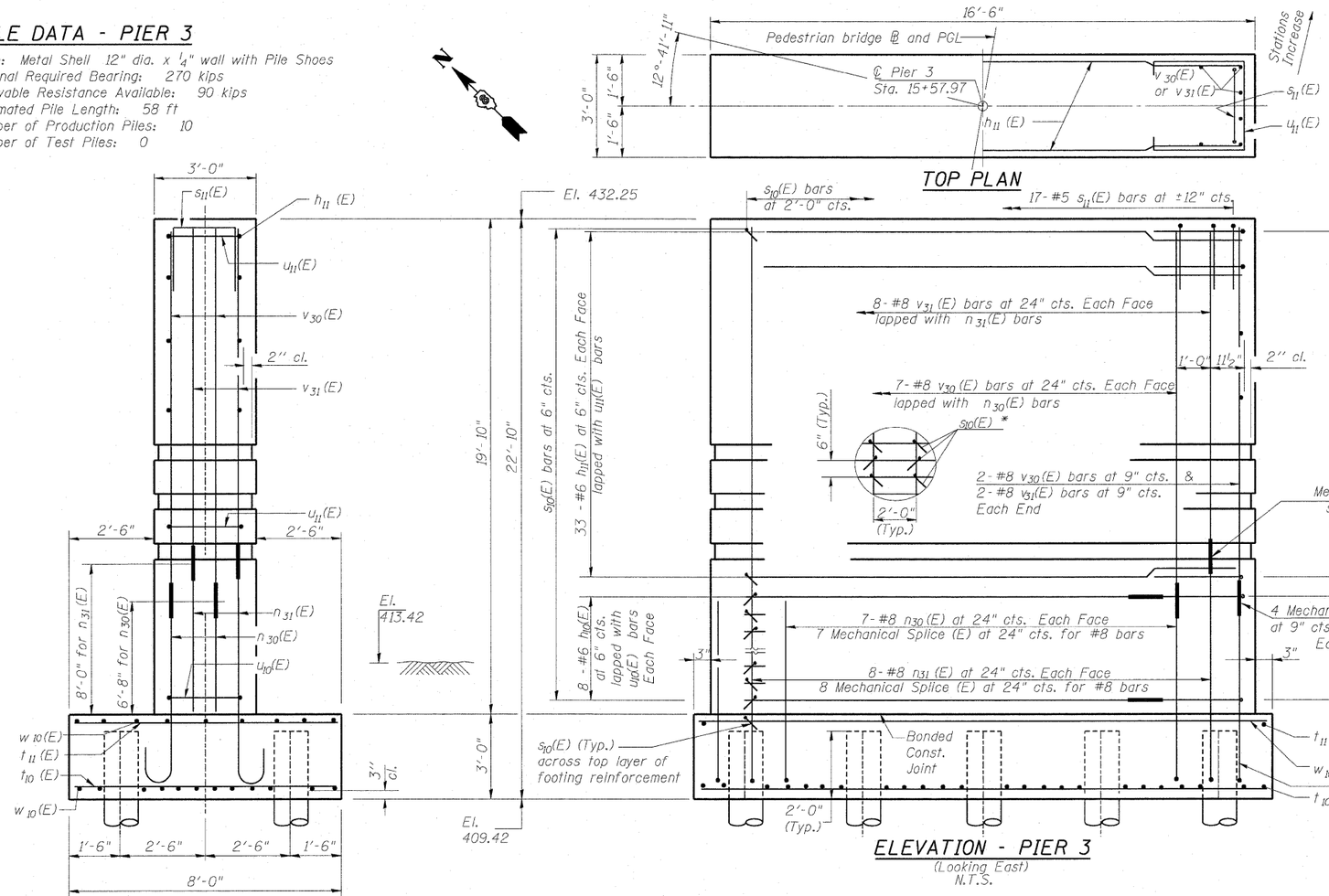
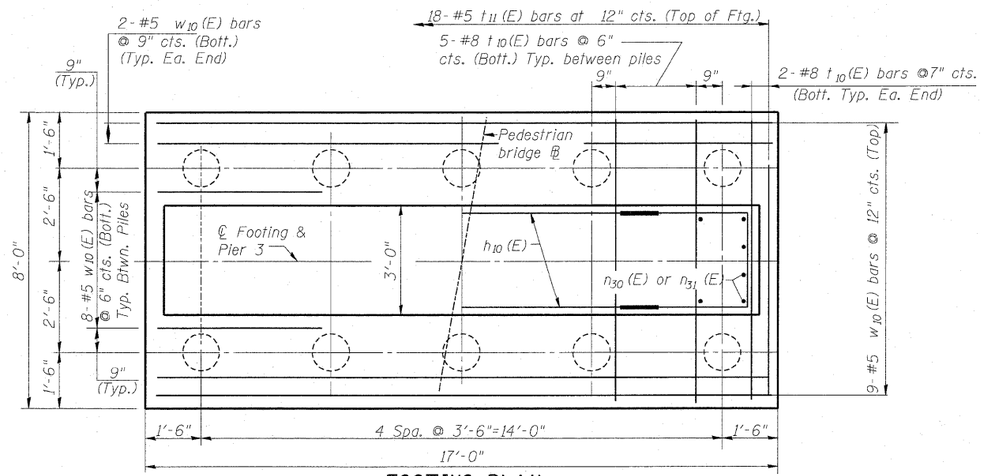
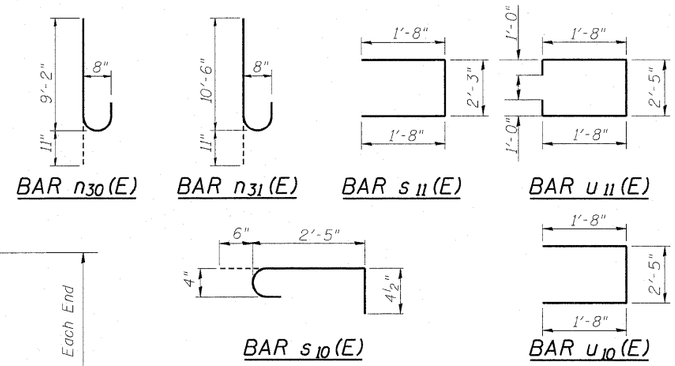
PILE DATA - PIER 3

Type: Metal Shell 12" dia. x $\frac{1}{4}$" wall with Pile Shoes
Nominal Required Bearing: 270 kips
Allowable Resistance Available: 90 kips
Estimated Pile Length: 58 ft
Number of Production Piles: 10
Number of Test Piles: 0



* Arrange s_{10}(E) bars in a grid pattern at intersection of n_{30}(E) or n_{31}(E) or v_{30}(E) or v_{31}(E) and h_{10}(E) or h_{11}(E) or u_{10}(E) or u_{11}(E). Orientation of 180° hook shall also be alternate.





BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_{10}(E)	16	#6	12'- 7"	
h_{11}(E)	66	#6	15'- 11"	
n_{30}(E)	18	#8	10'- 1"	
n_{31}(E)	20	#8	11'- 5"	
s_{10}(E)	336	#4	3'- 3½"	
s_{11}(E)	17	#5	5'- 7"	
t_{10}(E)	18	#8	7'- 8"	
t_{11}(E)	24	#5	7'- 8"	
u_{10}(E)	16	#6	5'- 9"	
u_{11}(E)	66	#6	7'- 9"	
v_{30}(E)	18	#8	13'- 0"	
v_{31}(E)	20	#8	11'- 8"	
w_{10}(E)	21	#5	16'- 8"	

Structure Excavation	Cu. Yd.	37.3
Concrete Structures	Cu. Yd.	51
Reinforcement Bars, Epoxy Coated	Pound	6,900
Furnishing Metal Pile Shells 12"	Foot	600
Driving Piles	Foot	580
Pile Shoes	Each	10
Concrete Sealer	Sq. Ft.	50
Mechanical Sandblast Finish	Sq. Ft.	591
Concrete Surface Color Treatment	Sq. Ft.	66
Mechanical Splice	Each	70

NOTES:

1. All edges shall have standard $\frac{3}{4}$" chamfers except as noted.
2. Space reinforcement in cap to miss anchor bolts.
3. For Anchor bolt details see Sheet PB-5. Truss fabricator shall determine size & location of anchor bolts. Cost included with Pedestrian Truss Superstructure.
4. See Sheet PB-18 for urban design guideline.

FILE NAME = 082-0394_76C47_S13_PIER-03.dgn	USER NAME = bhatta	DESIGNED - DEV	REVISED -
		DRAWN - MK	REVISED -
	PLOT SCALE = 0.1 '/' IN.	CHECKED - ATB	REVISED -
	PLOT DATE = 6/15/2009	DATE - 05/01/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 3
STRUCTURE NO. 082-0394

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-1-1HBR	ST. CLAIR	93	54
		CONTRACT NO. 76C47		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		