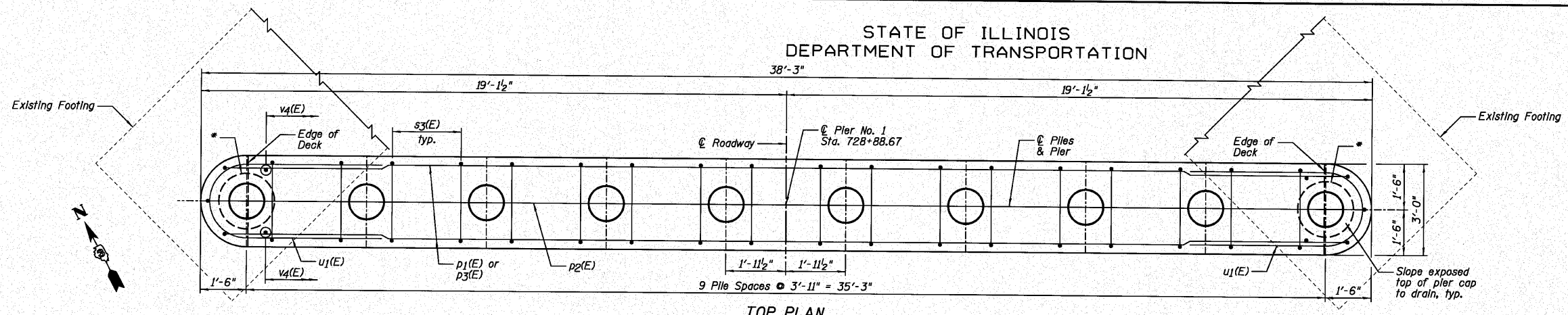
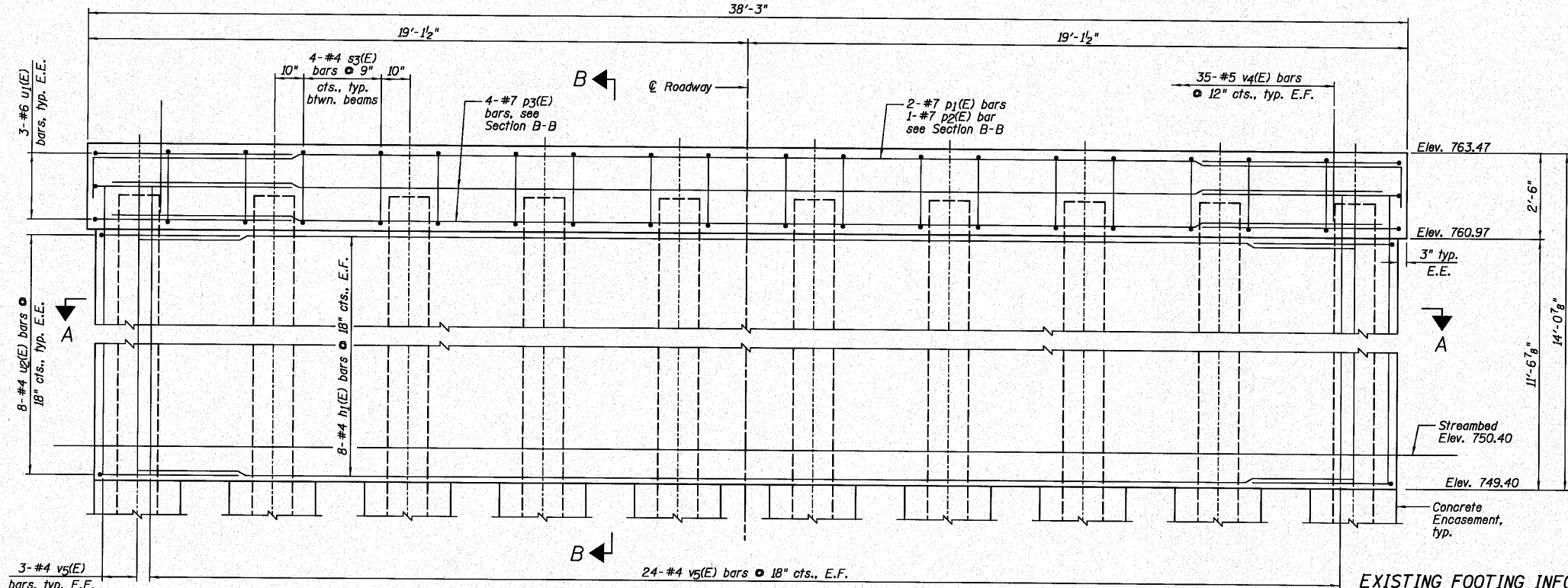


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



TOP PLAN



ELEVATION
(Looking North)

EXISTING FOOTING INFORMATION

Footing Thickness	2 Feet
Top Reinforcement	unknown
Bottom Reinforcement	unknown

NOTES:

- If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed under water into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation 1'-0" above the water line at the time of construction.
- E.F. denotes Each Face and E.E. denotes Each End.
- See Sheet B14 for Section B-B.
- *Pile location coincide with the limits of the existing footing. These piles should be driven through a 2' diameter precored hole in the existing footing extending to elevation 744.00 according to Article 512.09(c). Adjacent piles may need to be cored also, due to their close proximity to the existing footing. Cost included in Driving Piles.

PIER NO. 1
BILL OF MATERIAL

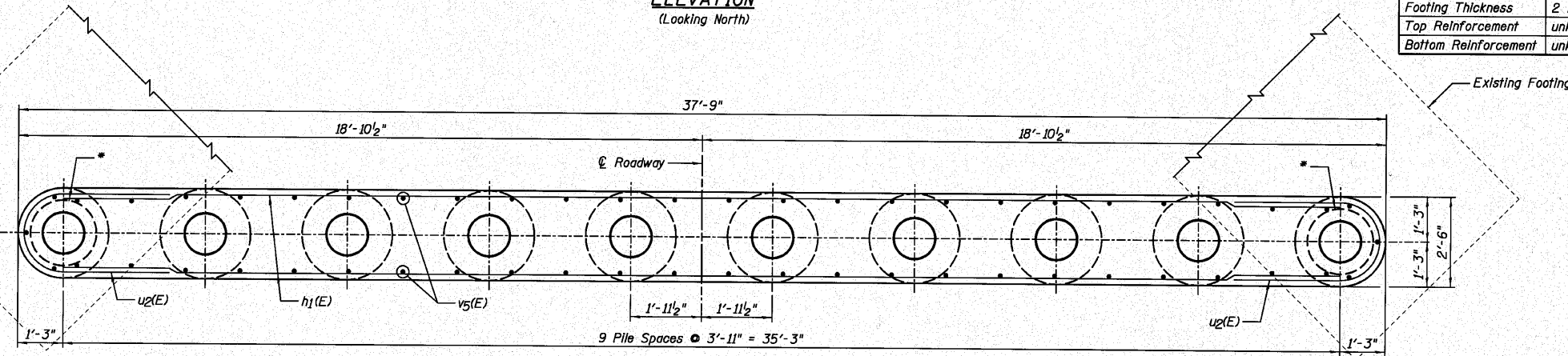
Bar	No.	Size	Length	Shape
ht(E)	16	#4	35'-9"	—
p1(E)	2	#7	38'-7"	—
p2(E)	1	#7	40'-1"	—
p3(E)	4	#7	36'-3"	—
s3(E)	36	#4	10'-5"	□
u1(E)	6	#6	13'-0"	—
u2(E)	16	#4	9'-3"	—
v4(E)	70	#5	3'-3"	—
v5(E)	54	#4	12'-8"	—

Item	Unit	Quantity
Structure Excavation	Cu. Yd.	46
Concrete Structures	Cu. Yd.	50.4
Concrete Encasement	Cu. Yd.	4.3
Reinforcement Bars, Epoxy Coated	Pound	2,080
Furnishing Metal Shell Piles 14" x 0.250"	Foot	477
Driving Piles	Foot	477
Test Pile Metal Shells	Each	1
Underwater Structure Excavation Protection - Location 1	Each	1

PILE DATA:

Pile Type and Size	Metal Shell - 14 in. dia. x 0.250 in. walls
Nominal Required Bearing	420 kips
Factored Resistance Available	231 kips
Estimated Pile Length	53 Feet
Number of Production Piles	9
Number of Test Piles	1

DESIGNED	SDH
CHECKED	JML
DRAWN	DJM/JWK
CHECKED	MSW
DATE	10/08/10



SECTION A-A

PIER NO. 1
STRUCTURE NO. 006-0182

<p>Farnsworth GROUP, INC. 2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1571 fax</p>	SHEET NO. B12	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	17 SHEETS	1249	(23 BR)BR	BUREAU	39	25	
CONTRACT NO. 66909							
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT					