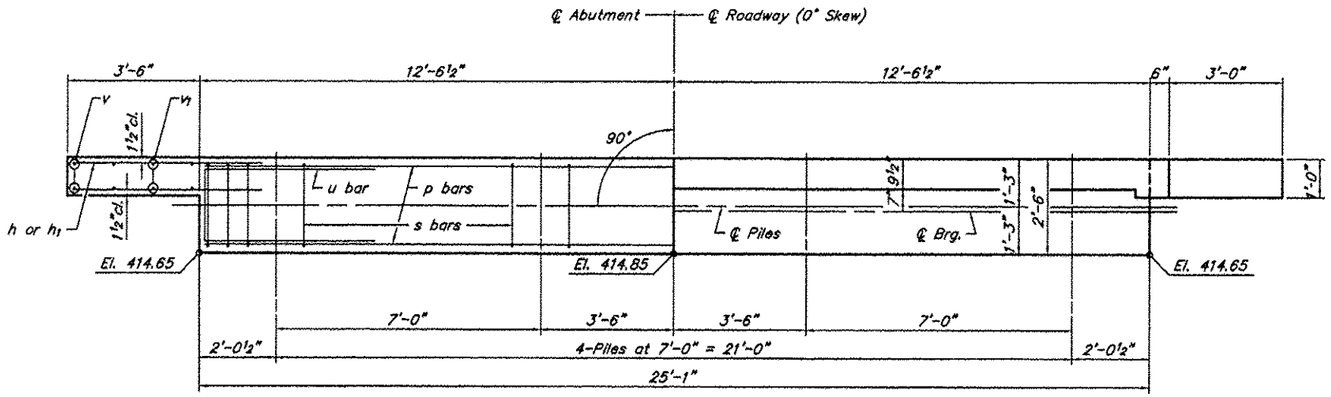
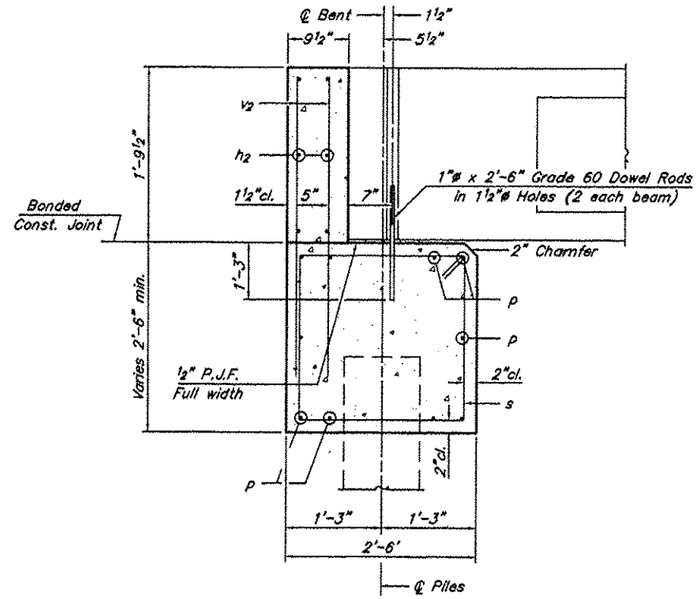
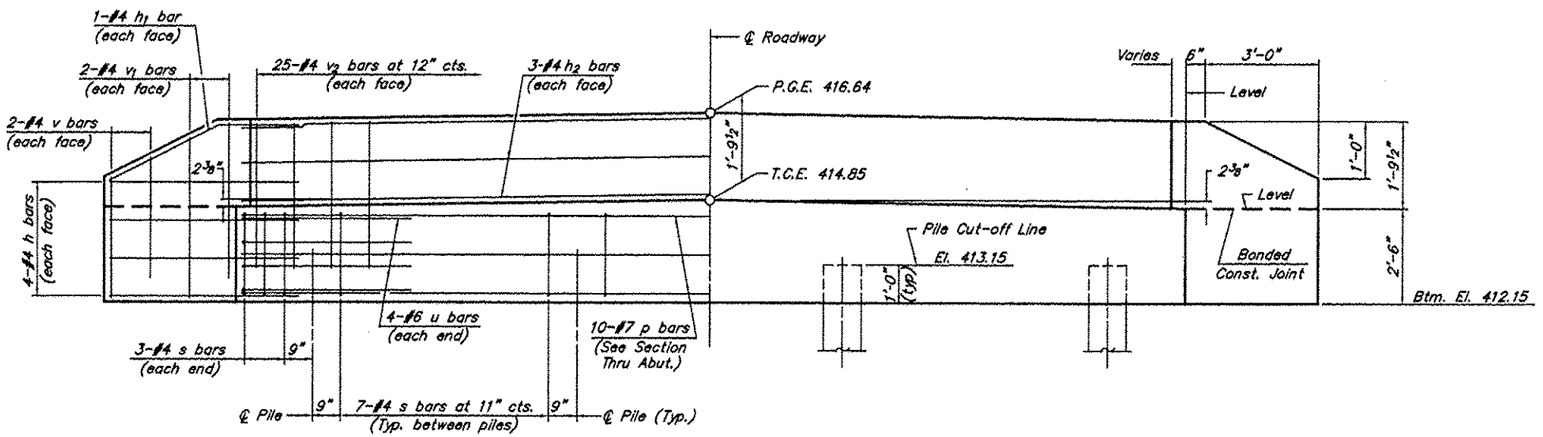
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
TR 51	11-01200-00-BR	UNION	12	8
PROJECT NO. BROS-181(57)		CONTRACT NO. 99481		



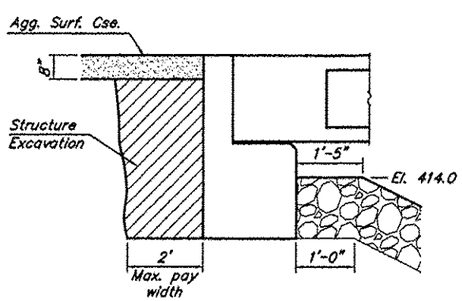
PLAN



SECTION THRU ABUT.
(At Right Angles)



ELEVATION



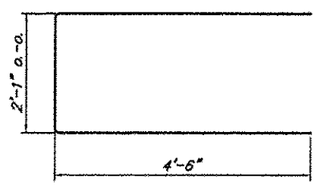
BACKFILL & BERM DETAIL

NOTES

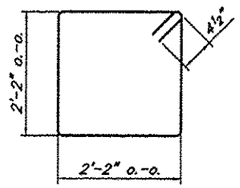
1. The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
2. Reinforcement bars shall conform to A.A.S.H.T.O. M-31, M-42 or M-53, Grade 60.

DESIGN STRESSES

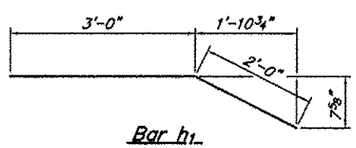
f'c = 3,500 psi
fy = 60,000 psi



Bar u



Bar s



Bar h1

BILL OF MATERIAL FOR ONE ABUTMENT

Bar	No.	Size	Length	Shape
h	16	#4	5'-0"	
h1	4	#4	5'-0"	
h2	6	#4	24'-9"	
p	10	#7	24'-9"	
s	27	#4	9'-5"	
u	8	#6	11'-1"	
v	8	#4	3'-2"	
v1	8	#4	3'-11"	
v2	50	#4	3'-5"	
Concrete Structures			8.4	Cu. Yds.
Reinforcement Bars			1,127	Lbs.

ABUTMENT
TOWNSHIP ROUTE 51 (RHINE ROAD)
SEMINARY FORK
SECTION 11-01200-00-BR
UNION COUNTY
STRUCTURE NO. 091-3240