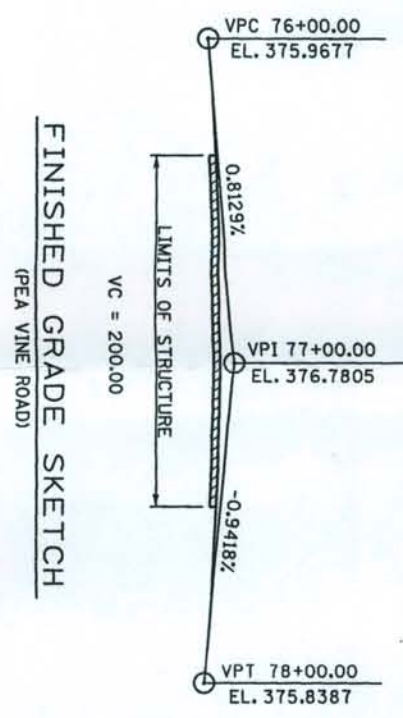
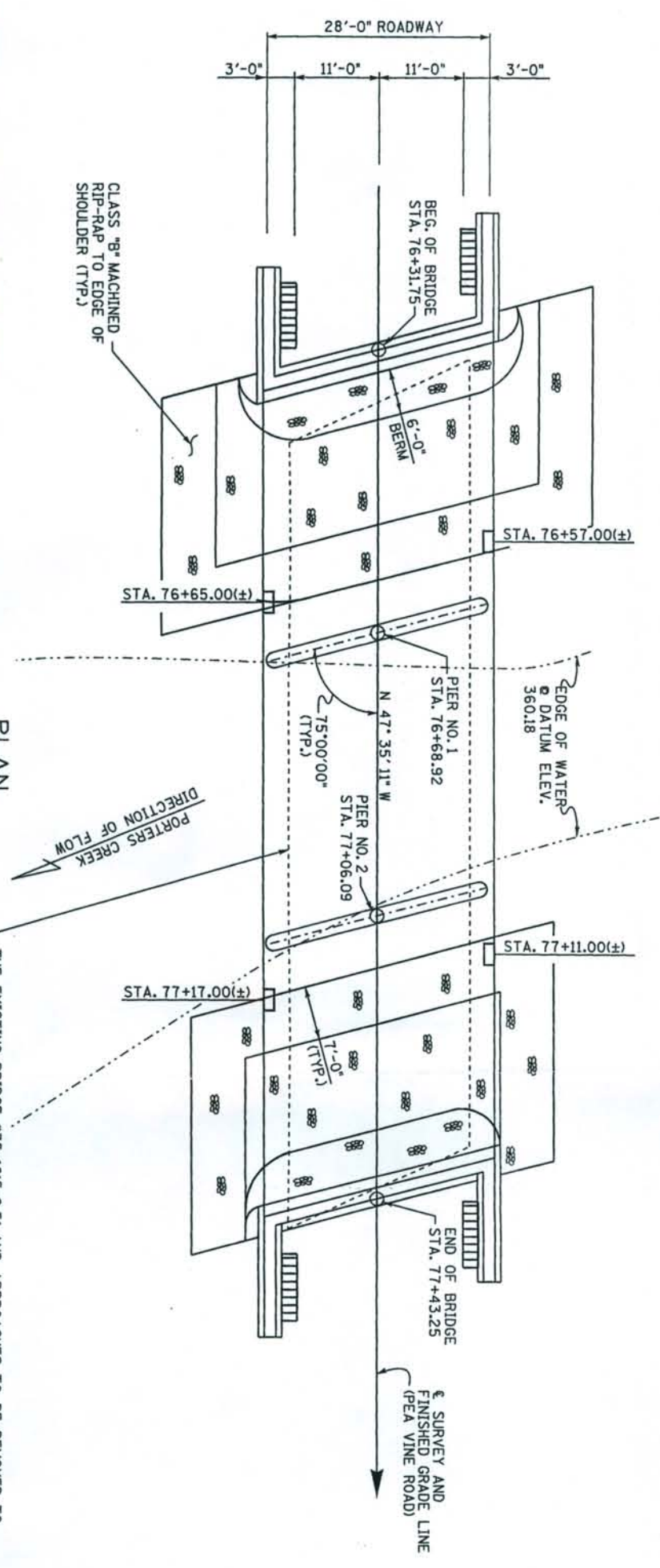


TOTAL BRIDGE LENGTH = 111'-6"



GENERAL NOTES:

- SPECIFICATIONS: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION (MARCH 1, 2006 EDITION).
- DESIGN SPECIFICATIONS: AASHTO 2004 3RD EDITION WITH 2005 & 2006 INTERIMS INCLUDING THE STANDARD SPECIFICATIONS FOR SEISMIC DESIGN OF HIGHWAY BRIDGES. (SEISMIC PERFORMANCE ZONE 2 WITH ACCELERATION COEFFICIENT 0.0001).
- LOADING: HL93 (DEAD LOADS TO INCLUDE 33 LB/FT² FOR FUTURE OVERLAY)
- CONCRETE: CLASS "A" f'c = 3000 PSI. BRIDGE DECK CONCRETE: CLASS "D" f'c = 4000 PSI
- REINFORCING STEEL: TO BE ASTM A615 GRADE 60. EPOXY COAT ALL SLAB STEEL
- SUPERSTRUCTURE: TO CONSIST OF 3 SPANS CONTINUOUS PRECAST PRESTRESSED TYPE I-BEAMS WITH COMPOSITE CONCRETE DECK SLAB.
- USE STD-1-1 PARAPET.
- MACHINED RIP-RAP SHALL BE CLASS "B" IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS AND SHALL BE MEASURED AND PAID FOR UNDER ROADWAY ITEM 709-05.08.
- TEXTURE COATING: TO BE MOUNTAIN GREY (36440) FOR ALL CONCRETE SURFACES. EXCEPT INSIDE FACE OF PARAPET AND TOP OF RAIL TO BE PAINTED WHITE (37886).
- BRIDGE EXCAVATION: BASED ON FINAL PROFILE AT ABUTMENTS.
- BRIDGE DECK SURFACE FINISH: TO BE IN ACCORDANCE WITH NOTE "C" IN ARTICLE 604.23 OF THE STANDARD SPECIFICATIONS.
- CLOSE ROAD DURING CONSTRUCTION.
- BRIDGE DECK DRAINS ARE REQUIRED AS SHOWN.
- END OF BRIDGE DRAINS ARE REQUIRED AS SHOWN.
- TYPE OF PIER IS DESIGNER'S CHOICE.



HYDRAULIC DATA

DRAINAGE AREA = 56.30 mi²
DESIGN DISCHARGE (10 YR.) = 7,230 cfs
WATER AREA PROVIDED BELOW EL. 371.14 = 692.72 ft²
10 YEAR VELOCITY = 10.44 fps
10 YEAR BRIDGE BACKWATER = 1.51 ft. @ EL. 370.97.
ROADWAY OVERTOPPING EL. = 373.1 ft.
100 YEAR DISCHARGE = 12,200 cfs @ EL. 375.53.

DESIGNED BY: A. WHITLOCK (A.P.P.)
DRAWN BY: M. ALGERIA
SUPERVISED BY: KRE/MBC
CHECKED BY: _____
DATE: 8-08
DATE: 8-08
DATE: 8-08



2029 ADT = 990
28'-0" ROADWAY WITH STD-1-1 PARAPET
DESIGN SPEED = 50 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
HYDRAULIC PRELIMINARY
PEA VINE ROAD
OVER
PORTER'S CREEK
BRIDGE I.D. #35016150013
STATION 76+87.50
LOG MILE 9.51
HARDEMAN COUNTY
2007

PROJECT NO.	YEAR	SHEET NO.
BRZE-3500(33)	2007	

NO.	DATE	BY	BRIEF DESCRIPTION

CORRECT *Edward P. Waggoner*
DESIGNER & STRUCTURES