

LAKE COUNTY  
SEC. LAK-1-10.38

GENERAL NOTES

REFERENCE shall be made to Standard Drawings AS-1-54 revised I2-1-54, CSB-2-56 revised 2-2-59, Sheets 2 and 3 of 6, and AR-1-57 revised 2-2-59.

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57 together with current revisions thereof.

EXCAVATION QUANTITY for Abuts. 1, 2 & 3 in addition to that outlined in Sec. E-2.09, includes the removal of material bounded by the proposed slope, by the front-vertical plane described in Sec. E-2.09 and by the finished slope of the cut. Backfill behind all the abutments shall be made with material meeting the requirements of Sec. I-22 and shall be compacted in accordance with the requirements for embankment compaction. The payment for this I-22 backfill shall be considered as included in payment for E-2 Unclassified Excavation.

PILES shall be driven to firm contact with rock. If the length of penetration is approximately equal to the depth to rock according to the bridge foundation investigation report, the firm contact shall be considered as attained when the capacity according to the formula in Sec. S-18.05 is not less than the following value for a pile hammer of the indicated energy rating:

EXCAVATION QUANTITY for Abutment # 4 includes the removal of fill material between the surface of proposed embankment and the bottom of footings.

- 36 tons per pile using a 7000 ft. lb. hammer
- 27 tons per pile using a 11000 ft. lb. hammer
- 25 tons per pile using a 15000 ft. lb. or greater hammer

if the energy rating of the Hammer is between the ratings given, the required formula capacity shall be determined by interpolation. The design load is 25 Tons per pile.

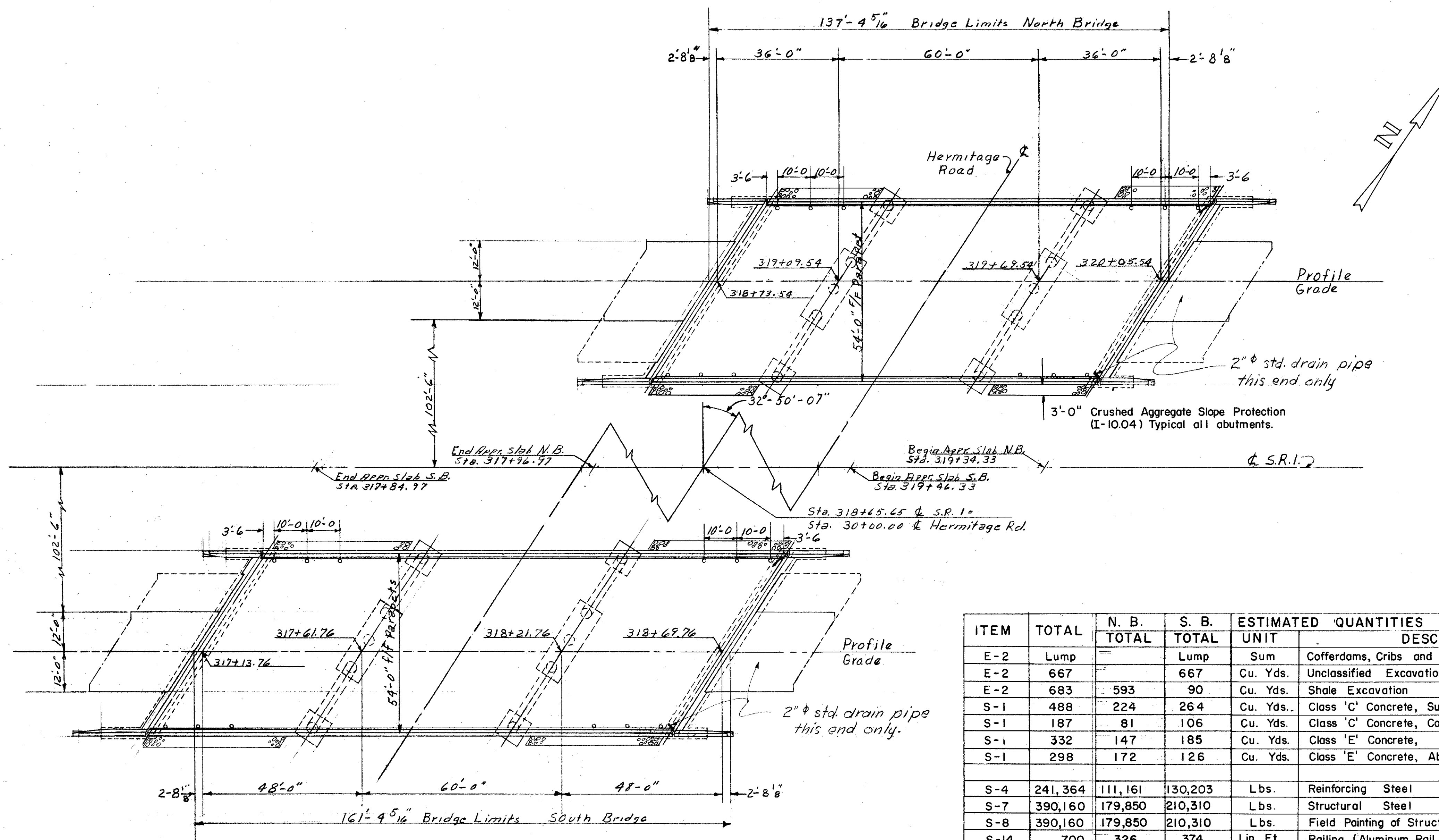
POROUS BACKFILL: 2 ft. thick, full length of abutment backwall shall extend up to the underside of the approach slab or to the finished ground surface. Excavation therefor, in excess of that required for construction of the abutment, shall be considered as paid for in the bid price per cu. yd. paid for porous backfill.

WELDING of structural steel shall be Class A except as otherwise shown. Welds shown as field welds may, at the option of the Contractor, be made in the shop.

CRUSHED AGGREGATE SLOPE PROTECTION (I-10.04) one foot thick shall be provided as indicated on the General Plan.

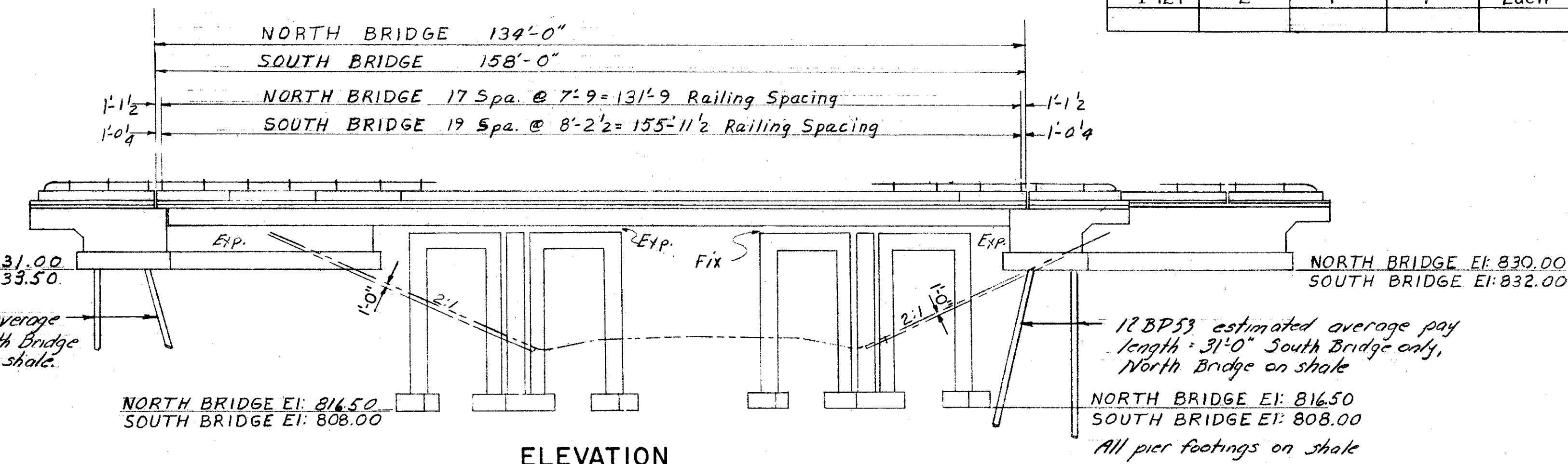
FOOTINGS founded on shale shall extend a minimum of 3" in to the shale or to the elevation shown whichever is lower.

FIRST TEST PILE: Payment will be made for only one first test pile. It may be driven for either the North Bridge or the South Bridge.



GENERAL PLAN

ITEM	TOTAL	ESTIMATED QUANTITIES		DESCRIPTION	NORTH BRIDGE				SOUTH BRIDGE						
		N. B. TOTAL	S. B. TOTAL		SUPER	ABUT.	PIER	GEN.	SUPER	ABUT.	PIER	GEN.			
E-2	Lump		Lump	Sum											Lump
E-2	667		667	Cu. Yds.									352	315	
E-2	683	593	90	Cu. Yds.				408	185					90	
S-1	488	224	264	Cu. Yds.			224				264				
S-1	187	81	106	Cu. Yds.					81					106	
S-1	332	147	185	Cu. Yds.				70	77				108	77	
S-1	298	172	126	Cu. Yds.				172					126		
S-4	241,364	111,161	130,203	Lbs.			68,207	15,480	27,474			80,066	16,953	33,184	
S-7	390,160	179,850	210,310	Lbs.			179,850					210,310			
S-8	390,160	179,850	210,310	Lbs.											
S-14	700	326	374	Lin. Ft.			268	58				316	58		
S-16	Lump		Lump	Sum											Lump
S-18	2640		2640	Lin. Ft.										2,640	
S-29	128	64	64	Cu. Yds.				64						64	
I-10	1243	540	703	Sq. Yds.						540					703
I-127	2	1	1	Each											



ELEVATION

PROPOSAL NOTES: See Proposal for notes concerning the requirements for A-373 Steel and Machine Finishing of Bridge Deck Slabs.

SEC. C-31A

PREPARED BY  
CAPITOL ENGINEERING ASSOCIATES, DILLSBURG, PA.  
FOR  
STATE OF OHIO  
DEPARTMENT OF HIGHWAYS  
DIVISION OF DESIGN AND CONSTRUCTION  
BUREAU OF BRIDGES  
GENERAL PLAN  
BRIDGE NO. LAK-1-12.71 N&S  
S.R.I. OVER HERMITAGE ROAD  
LAKE COUNTY  
STA. 318 + 65.65

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
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