

**GENERAL NOTES**

REFERENCE shall be made to Std. Drwg. C5B-5-50 dated 5-12-50.

REMOVAL OF EXISTING STRUCTURE: When no longer needed to maintain traffic, the existing structure shall become the property of the Contractor. Existing south abutment shall be removed to an elevation at least 6" and existing north abutment at least 3' below finished ground lines and where required, for new construction. Suitable waste masonry may be used for riprap or dumped rock fill where shown on the plans.

EXCAVATION quantity includes the removal of fill material between top of earth bench and bottom of abutment crossbeam.

FOOTINGS shall extend into shale a minimum of 2'-0" but not higher than the elevations shown.

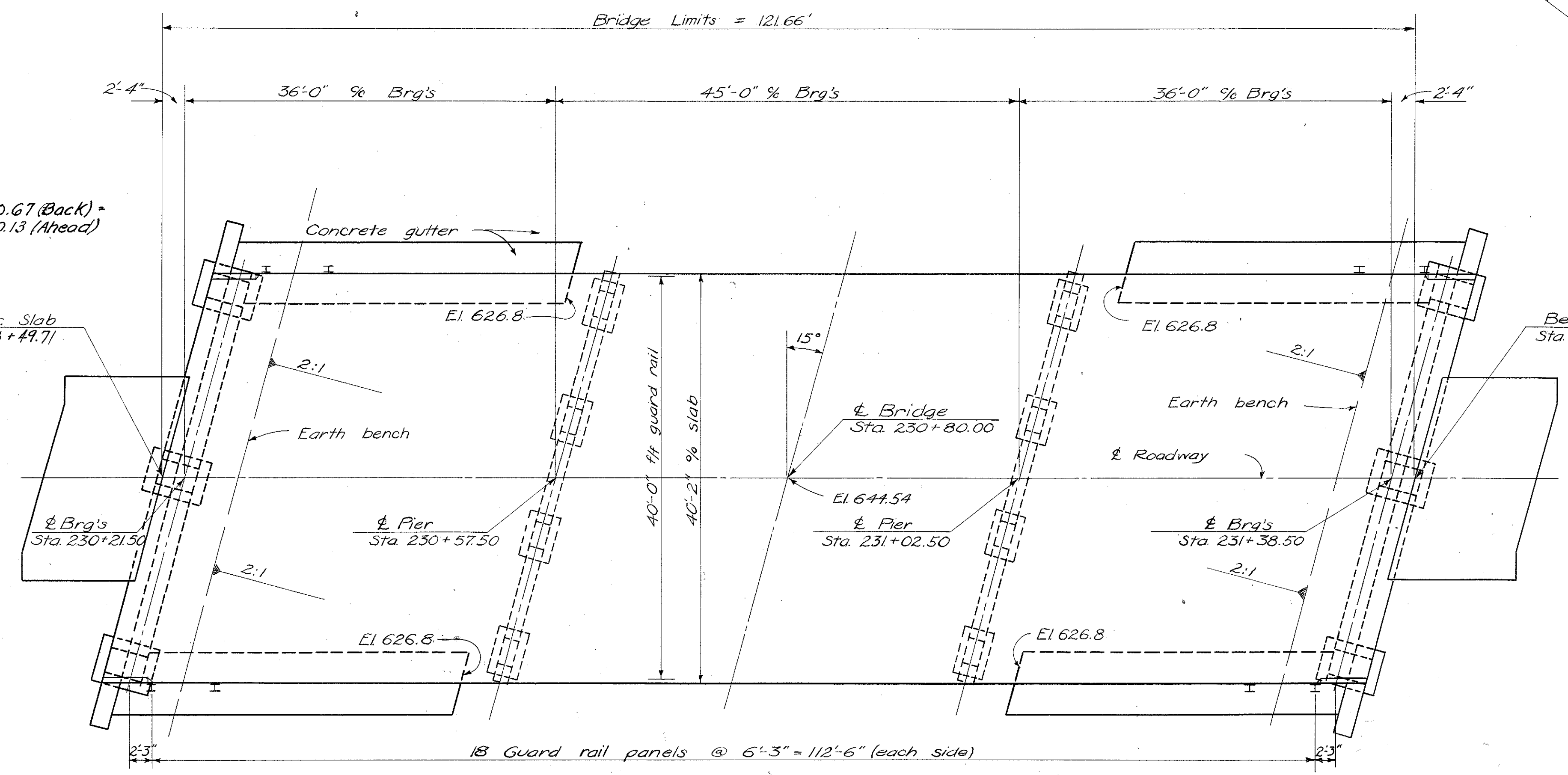
SURFACE FINISH OF CONCRETE: Fascia of deck slab shall receive a rubbed surface finish. All other exposed surfaces shall be governed by the provisions of Item 5-1.

CONCRETE GUTTERS shall be 6' wide and 6" thick and shall be depressed 6" at the center. They shall extend from face of abutment down to Elev. 626.8 and shall be centered under edge of deck. Reinforcing bars  $\frac{1}{2}$ " @ 1'-6" ctrs., both directions, included in price per lin. ft.

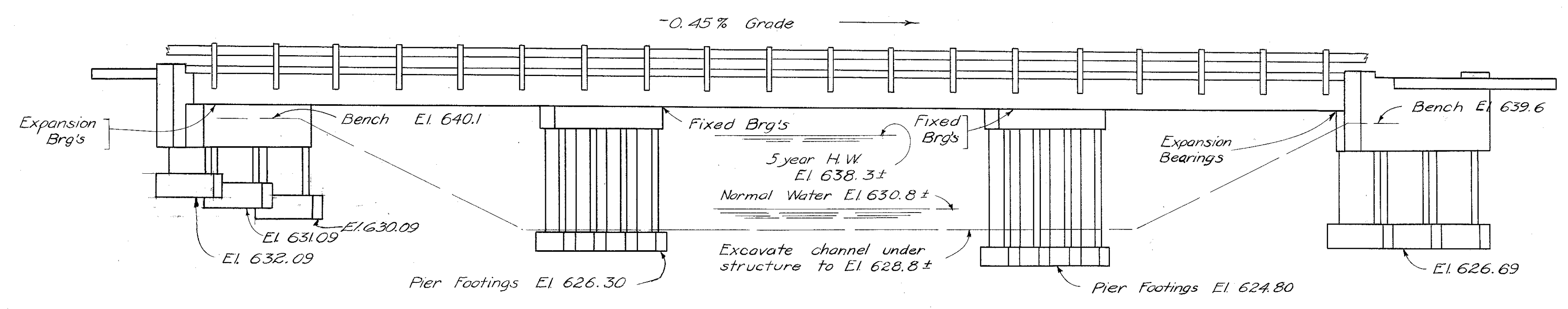
SURFACE COURSE shall be 2 1/2" asphaltic concrete, Item T-35, laid in two 1 1/4" courses.

TEMPORARY RUN-AROUND BRIDGE & APPROACHES shall be paid for as lump sum under Item 5-15, except furnishing and placing approach surface course. Surface course aggregate shall be paid for per cu. yd. and be governed by Item T-10, except that rolling will be required. Calcium Chloride (M-10), applied to surface course, shall be paid for per ton. Amount of surface material applied and paid for to be as directed by the Engineer. Embankment to be substantially in accordance with E-1.05 with side slopes not steeper than 1 1/2:1. Existing bridge may be moved and used for run-around bridge without strengthening.

EQUATION:  
Sta. 228 + 50.67 (Back) =  
Sta. 230 + 20.13 (Ahead)



**GENERAL PLAN**



**GENERAL ELEVATION**

ESTIMATED QUANTITIES									
Item	Total	Unit	Description	Abut.	Piers	Super.	Gen'l.	As Built	
E-2	Lump	Sum	Cofferdams, cribs, and sheeting				Lump		
E-2	162	Cuyd	Unclassified excavation	134	8			6'-30	130
E-2	28	Cuyd	Shale excavation	16.5	11.5			6'-1, +2	30
E-3	1863	Cuyd	Channel excavation				1863		
S-1	97	Cuyd	Class "C" concrete, Superstructure			97			
S-1	90	Cuyd	Class "E" concrete, abutments (above footings)	90					
S-1	24	Cuyd	Class "C" concrete, pier caps and columns		24				
S-1	21	Cuyd	Class "E" concrete, footings	12	9				
S-3	537	Sqyd	Type "C" waterproofing				537	6'-2	530
S-4	4407	Lbs.	Reinforcing steel	6758	5817		31,360	102	
S-7	90280	Lbs.	Structural steel				90280	6'-1, -600	89680
S-8	90280	Lbs.	Field painting of structural steel				90280	6'-600	89680
S-14	24332	lin.ft.	Railing (Type I-1513 with steel posts)				24332		
S-15	Lump	Sum	Temporary run-around bridge and approaches				Lump		
S-24	Lump	Sum	Removal of existing structure				Lump		
I-10	696	Sqyd	Type "A" riprap				696	6'-83	613
I-14	133	lin.ft.	Concrete gutter				133		
I-10	7	Cuyd	Dumped rock fill				7		
T-35	37	Cuyd	Asphaltic concrete surface course, Type "A" or "C"; (70-80) or (85-100)				37		
T-10	470	Cuyd	Surface course for run-around approaches				470	6'-101	369
M-10	9	Tons	Calcium Chloride for surface course of run-around approaches				9	6'-5	4

GENERAL NOTES (continued) - REINFORCING STEEL  
SPlice lengths are not less than 30 times the diameter of the smaller bar involved.

BUMPER ANGLES as shown on Std. Drwg. C5B-5-50 are not required.

END FINISH need not be copper-bearing steel.

STATE OF OHIO  
DEPARTMENT OF HIGHWAYS  
BUREAU OF BRIDGES AND RAILROAD CROSSINGS

**GENERAL PLAN & ELEVATION NOTES, ESTIMATED QUANTITIES**  
**BRIDGE NO. LA-306-43**  
OVER E. BRANCH OF CHAGRIN RIVER  
LAKE COUNTY  
SEC. LAK-306-433

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
		R.H.L.		BFG	9/27/51	10-5-51

Sta. 230 + 80.00