D RD. VISION	STATE	PROJECT	 299A
2	оню		384

LAKE COUNTY LAK-2-14.22

ESTIMATED QUANTITIES FEDERAL BREAK-DOWN LEFT BRIDGE RIGHT BRIDGE DESCRIPTION SUPER. ABUTS. PIERS GEN'L. TOTAL UNIT FG-329(18) U-329(18) Cu. Yds. Unclassified Excavation 330 544 2111 -624 940 390 360 Cofferdams, Cribs and Sheeting Piers 18:2 Lump Lump E- 2 Cofferdams, Cribs and Sheeting Piers 384 Lump Lump Cu. Yds. | Class "C" Concrete, Superstructure 700 960 560 S - 1 Cu. Yds. Class "C" Concrete, Pier Caps and Columns 117 210 93 S - 1 302 Cu. Yds. Class "E" Concrete, Abutments above Footings 705 Cu. Yds. | Class "E" Concrete, Footings S-1 99 288 86 92 346 267 401 Cu. Yds. Class "C" Concrete, "T" Type Pier Walls above Footings S - I 401 607,017 Lbs. Reinforcing Steel 228,772 21, 381 S - 4 82,040 20,400 370,742 215,875 191,124 19,603 | 64,097 1,900,800 Lbs. Structural Steel 1,025,000 875,800 S-7,201,000 699,800 1,025,000 S - 8 Lbs. | Field Painting of Structural Steel 875,800 1,201,000 699,800 Lin. Ft. Railing (Aluminum Rail and Supports, Concrete Parapets) 1,240 797 Sum | First Test Pile Lump Lump Sum | First Pile Test Load * Lump Lump Subsequent Pile Test Load * 0.35 - 1406 10364 1,890 11,770 Lin.Ft: Steel Piles 12-BP-53 4,750 1,980 4,400 1,800 3,590 S-25 1056 Lin. Ft. Electric Conduit for Lighting 622 492 S-25 Lump Sum Electric Lighting System (1) Lump Lump S-25 Lump Sum Electric Lighting System (2) Lump Lump Lump 484 Lin. Ft. Wiring (3) 220 20 20 -795 Lin. Ft. Wiring (4) 353 402 948 849 20 2 Each Luminaires Including Ballasts (3) 3 Each Luminaires Including Ballasts (4) 98 Cu. Yds. Porous Backfill S-29 54 44 49 35-61 Each Scuppers S-29 /∂-30 O-36 17-(31) Crushed Aggregate Slope Protection ** 40 490 410 900 102 9 10 Sq. Yds. 6" Concrete Slope Protection 495 415 910

First Test Pile: Payment will be made for only one first test pile. It may be driven for either the Right or Left bridge.

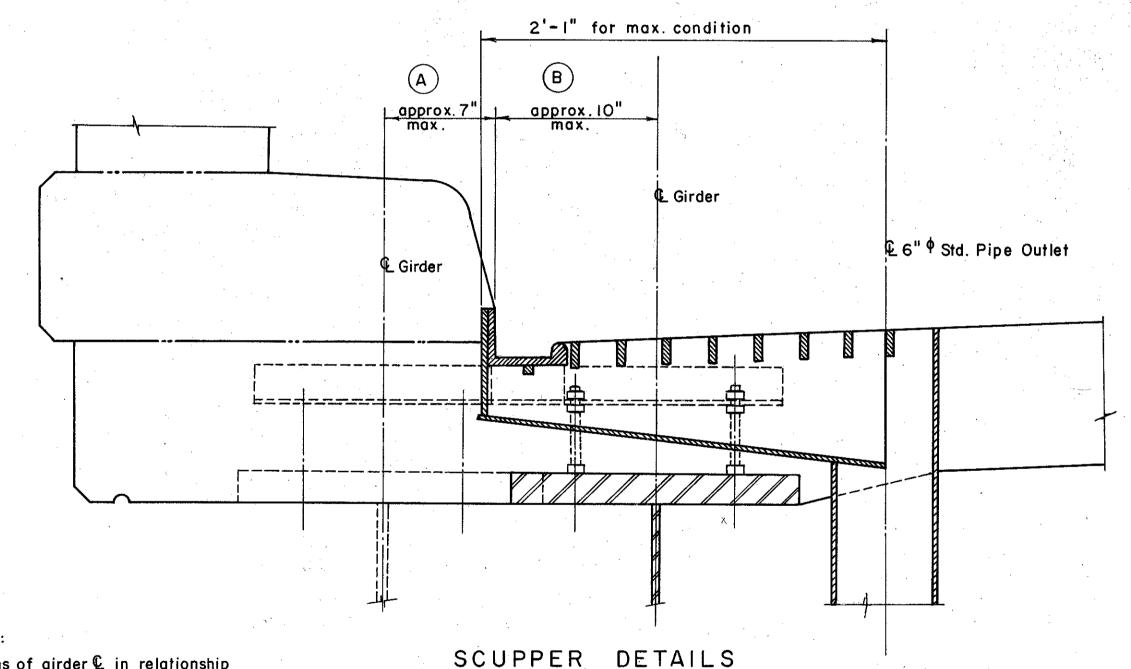
*Items S-17, First and Subsequent Pile Test Loads, shall be applied if and where directed by the Engineer.

Item S-25 Electrical Lighting System includes standards, arms, anchor bolts, grounds, and pull boxes.

**Includes protection for scupper discharge areas in span No. 3. listed under superstructure.

- (1) East of Pier No. 3
- (2) West of Pier No.3
- (3) 100% city participation
- (4) No federal participation

ELECTRICAL GROUNDS: A solid No. O gage bare copper wire electrical ground shall be embedded in the outside column on each side of the structure at pier No. 2. The lower ends of the wires shall be brazed to the steel H piles and the upper ends shall extend sufficiently above the top of the concrete to provide for a suitable splice and extension for connection to the superstructure. The connection to the superstructure shall be a No. 6 gage, bare, stranded, tinned copper wire brazed or bolted to a girder flange and to the solid copper wire in the pier shaft. At the base of the lamp standards there shall be a tinned No. 6 gage copper wire brazed to one anchor bolt and the other end brazed or bolted to the outside girder flange. Payment for electrical grounds is included in the lump sum bid for Item S-25, "Electric lighting system".



NOTES:

Locations of girder © in relationship to curbline are shown for extreme points, © girder being approx.
7" and 10" away from curb.

For location of © girder in area ⓐ use standard gutter details according to CSB-2-56, revised 2-2-59, extending gutter support $L 2\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{4}$ under bulb L gutter.

For location of © girder in area

(B) increase width of scupper inlet
so that scupper pipe will clear
girder flange by a minimum of 2".

For details not shown see CSB -2-56 revised 2-2-59.

PREPARED BY
CAPITOL ENGINEERING ASSOCIATES, DILLSBURG, PA.
FOR

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

QUANTITIES

BRIDGE NO. LAK-2-1471 L & R
RELOC. S. R. 2 OVER B & O. R.R.-S. R. 283
LAKE COUNTY

STA. 680 + 56.97

DESIGNED DRAWN TRACED CHECKED REVIEWED DATE REVISED (6-2-6)