

COUNTY OF CUYAHOGA
DECK AND ABUTMENT REPAIRS

BROOKPARK VIADUCT

RIVEREDGE TOWNSHIP
AND
VILLAGE OF PARKVIEW

DATE
BY
SURVEYED
APPROVED
CHIEF CHECKED
BY OR WAY CHECKED

PROFILE
SURVEYED
CHIEF CHECKED
BY OR WAY CHECKED
NOTE BOOK NO.

INDEX OF SHEETS

Title Sheet
Details of Deck and Abutment Repairs
Original Plans - West Abutment
Original Plans - Deck Details
Original Plans - Railing Details
Original Plans - Expansion Joint Details

Sheet No. 1
2-3
4-5
6
7
8



LOCATION PLAN

Scales of Miles
0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1

Portion to be improved
State Highways
County Roads

Date of Contract:
Date of Completion:
Constructed By:

Approved: Martin E. Friedman
Date: 6/3/55 Bridge Engineer

Approved: _____
Date: _____ Land Deputy

SCALES As Shown

BUILT BY CONTRACT 1955

ALBERT S. PORTER
COUNTY ENGINEER

Approved: P.W. Deitsch
Date: 6-3-55 Chief Engineer

Approved: A.V. Dooley
Date: 6-3-55 Chief Deputy

Approved: A. S. Porter
Date: 6/3/55 County Engineer

BOARD OF COMMISSIONERS

Approved: J. J. Cum
Date: 6/6/55 County Commissioner

Approved: J. J. Cum
Date: 6/6/55 County Commissioner

Approved: H. H. Murphy
Date: 6/6/55 County Commissioner

JOURNAL PAGE

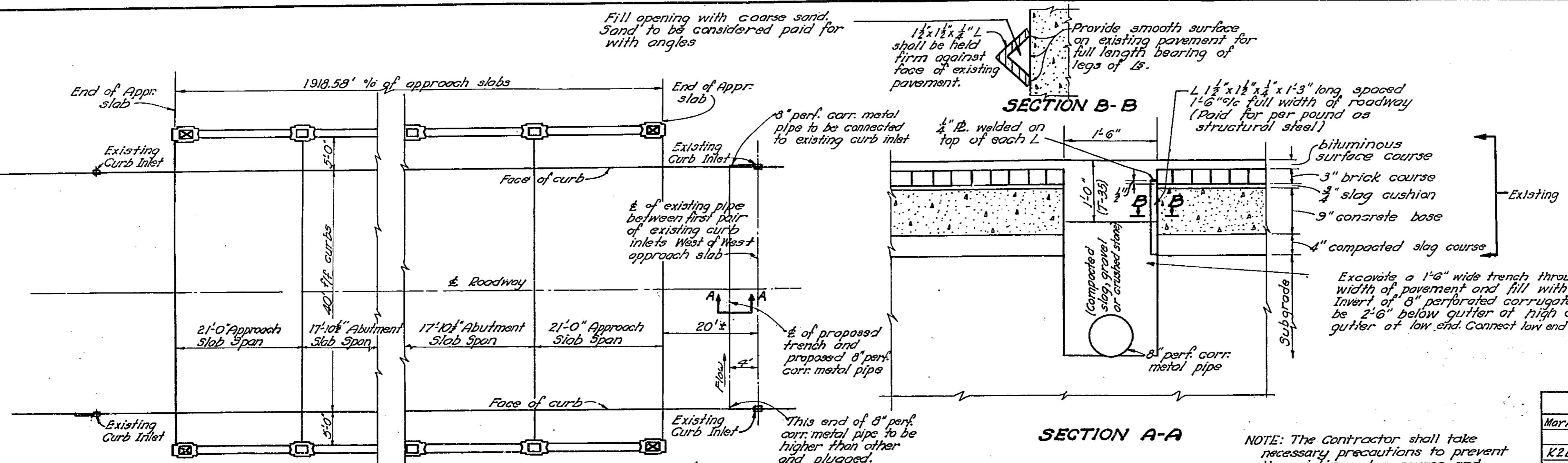
MUNICIPALITIES

Approved in Riveredge Township
Ordinance of Consent No. _____ Passed _____

Approved in the Village of Parkview
Ordinance of Consent No. _____ Passed _____

BROOKPARK RD. VIADUCT
NO. B-191

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

2
8

PART PLAN

WORK TO BE DONE is summarized as follows:

Concrete footings shall be placed under each end of the crossbeam of the West end of the west abutment slab span, as per plan.

Railing panel of abutment slab span on both sides of roadway on West Abutment and the portion post adjacent to the end span shall be removed, repaired and reinstalled.

The sidewalk and curb in abutment slab span on both sides of roadway on West Abutment shall be removed and replaced.

The manholes in the sidewalks on the West Abutment shall be relocated.

Repair various existing roadway expansion joints as per plan.

The asphaltic concrete surface course, immediately adjacent to the removed portion of curb and adjacent to various roadway expansion joints which are re-anchored, shall be removed and replaced.

Where the asphaltic concrete surface course along the curb is removed and replaced, sub-surface drainage consisting of drainage angles and tubes shall be installed.

The upper part (fascia) of the wingwalls in the abutment slab span of the West Abutment on both sides of the roadway shall be removed and replaced. (See Section E-E, sheet 3)

Broken and disintegrated concrete on the faces of the wingwalls, breast wall, pylons and railing post in the abutment slab span of the West Abutment shall be removed and replaced.

The broken concrete at the ends of the crossbeam under the West end of the West Abutment slab span shall be patched.

Disintegrated concrete in the sidewalks and curbs of other portions of the bridge shall be removed and the surfaces patched.

Immediately beyond the west end of the bridge a transverse drainage system and small section of flexible pavement shall be installed to intercept seepage water and to prevent approach pavement creep from causing a longitudinal force against the approach slab of the bridge.

REFERENCE shall be made to supplemental specification S-102 dated 6-15-49.

DETAILS OF EXISTING STRUCTURE: Artinent sheets from the original construction drawings for this structure are a part of these plans. A copy of the complete original plans may be examined at the Cuyahoga County Engineer's Office.

PAY ITEMS FOR REMOVAL AND REPLACEMENT shall be applied as follows:

Railing: \$15 per lin. ft. for removal, repair and reinstallation.

Abutment sidewalk and curb (where completely removed), and top of wingwall (fascia) (where completely removed): \$22 per cu.yd. for removal. \$15 per cu.yd. for new concrete.

Abutment breastwall, pylon and wingwall and ends of West abutment cross beam (where removal is only for partial thickness): \$2 per sq. ft. for both removal and replacement.

Sidewalks and face of curbs (except abutment slab span of West Abutment): Supplemental Specification S-102, per sq. ft., for both removal and replacement. Areas to be patched will be determined by the Engineer.

REPLACEMENT DETAILS will be according to the original plans for this bridge except as otherwise shown on these repair plans and except for the additional reinforcing steel required under Item S-2. Existing reinforcing steel extending from undisturbed concrete into replacement concrete shall be carefully protected and cleaned. Reinforcing steel that is entirely within the replacement concrete shall be replaced under Item S-4.

MAINTENANCE OF TRAFFIC: The Contractor shall so conduct his operations that there will be a minimum of interference with the free flow of traffic. Two way traffic shall be maintained at all times. Only one sidewalk shall be closed to pedestrian traffic at a time.

TYPICAL DETAIL OF EXISTING ROADWAY EXPANSION JOINTS

(SHOWING PROPOSED ANCHORING ANGLES)
"ITEM S-7 & SPEC. STRUCTURAL STEEL FOR ROADWAY EXPANSION JOINT ANCHORAGE COMPLETE IN PLACE- INCLUDING PAINTING."

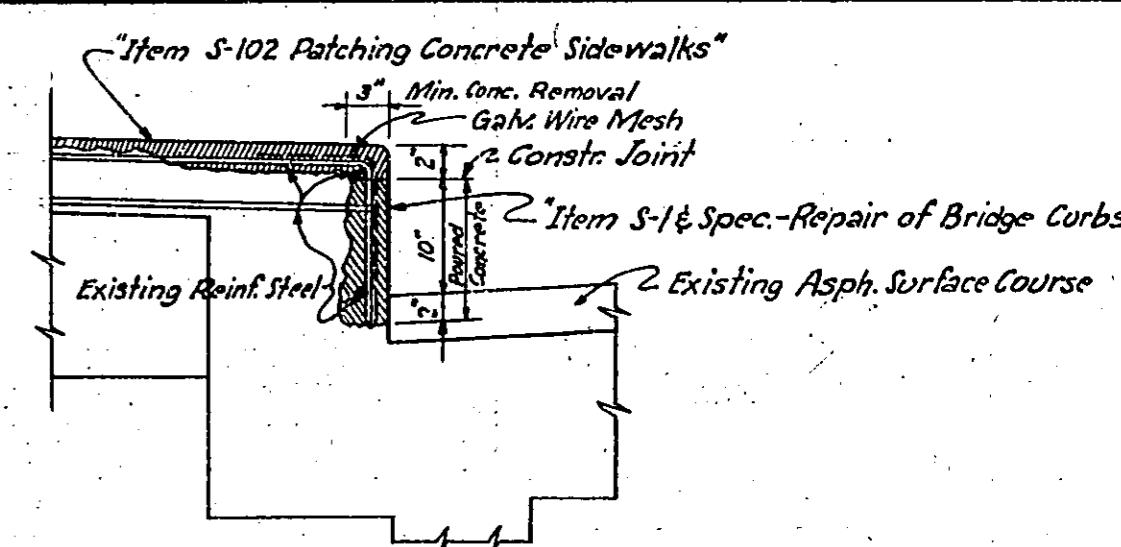
Note:
The removal of Existing Bituminous Surface Course, Concrete Base Course, Trench excavation and filling material included in Item I-4 for payment.

1' 6" Width of T-35 shall be placed in layers not to exceed 3" compacted thickness. Asphaltic Wearing Course replacement (T-35) adjacent to roadway expansion joints to be compacted in two courses.

Excavate a 1' 6" wide trench through pavement, full width of pavement and fill with materials as shown. Invert of 8" perforated corrugated metal pipe shall be 2' 6" below gutter of high end and 3' 0" below gutter of low end. Connect low end to adjacent curb inlet.

REINFORCING STEEL LIST

Mark	Size	No.	Length	Weight	Ship	Bending Diagram
K2b	1/8" #	58	7'-7"	294	Bl.	6'-3" 1/8"
K2c	1/8" #	58	6'-3"	242	St.	
X40	5/8" #	16	4'-7"	76	St.	
K40	5/8" #	38	2'-0"	79	St.	
K40	5/8" #	14	17'-9"	252	St.	
X40	5/8" #	22	2'-0"	61	St.	
K5P	3/8" #	8	24'-1"	290	Bl.	
X4C	5/8" #	12	3'-0"	46	St.	
K70	1" #	4	17'-3"	184	St.	
E2j	1/8" #	16	2'-3"	24	St.	

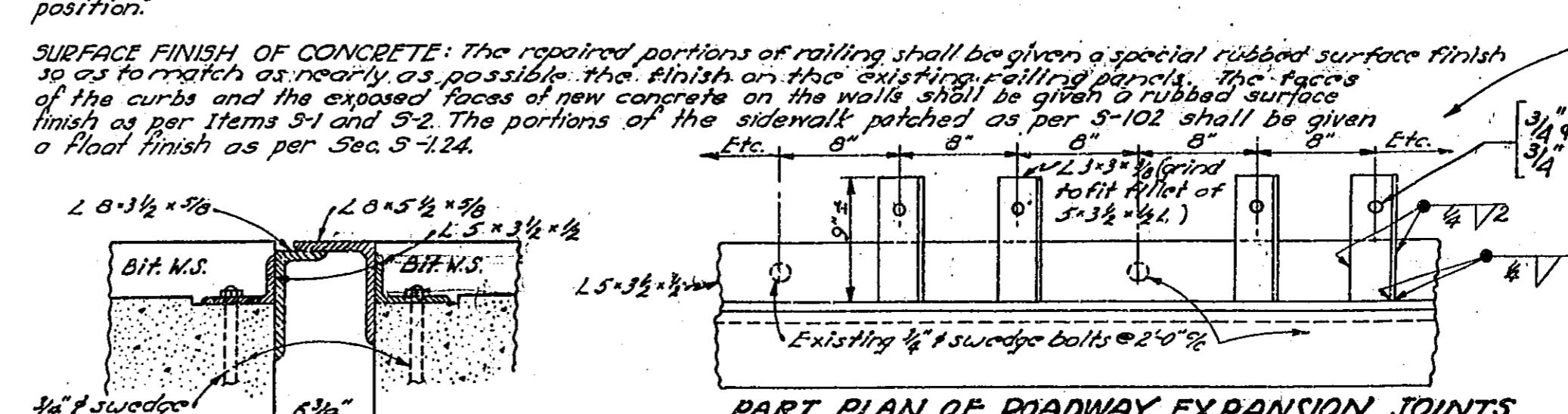


TYPICAL DETAIL- SHOWING CURB & SIDEWALK REPAIR

NOTE: The bar size designations shown above do not correspond with the size designations given in the January 1, 1955 edition of the Construction and Material Specifications.

NOTE: Where existing 3/8" swedge bolts are loose, place 3/8x3/8 angle anchors as shown. Both sides of exp. joint shall be repaired in like manner.

3/4" #3 Unit Cinch Anchor Assembly with 3/4" bolt, lock washer and nut.

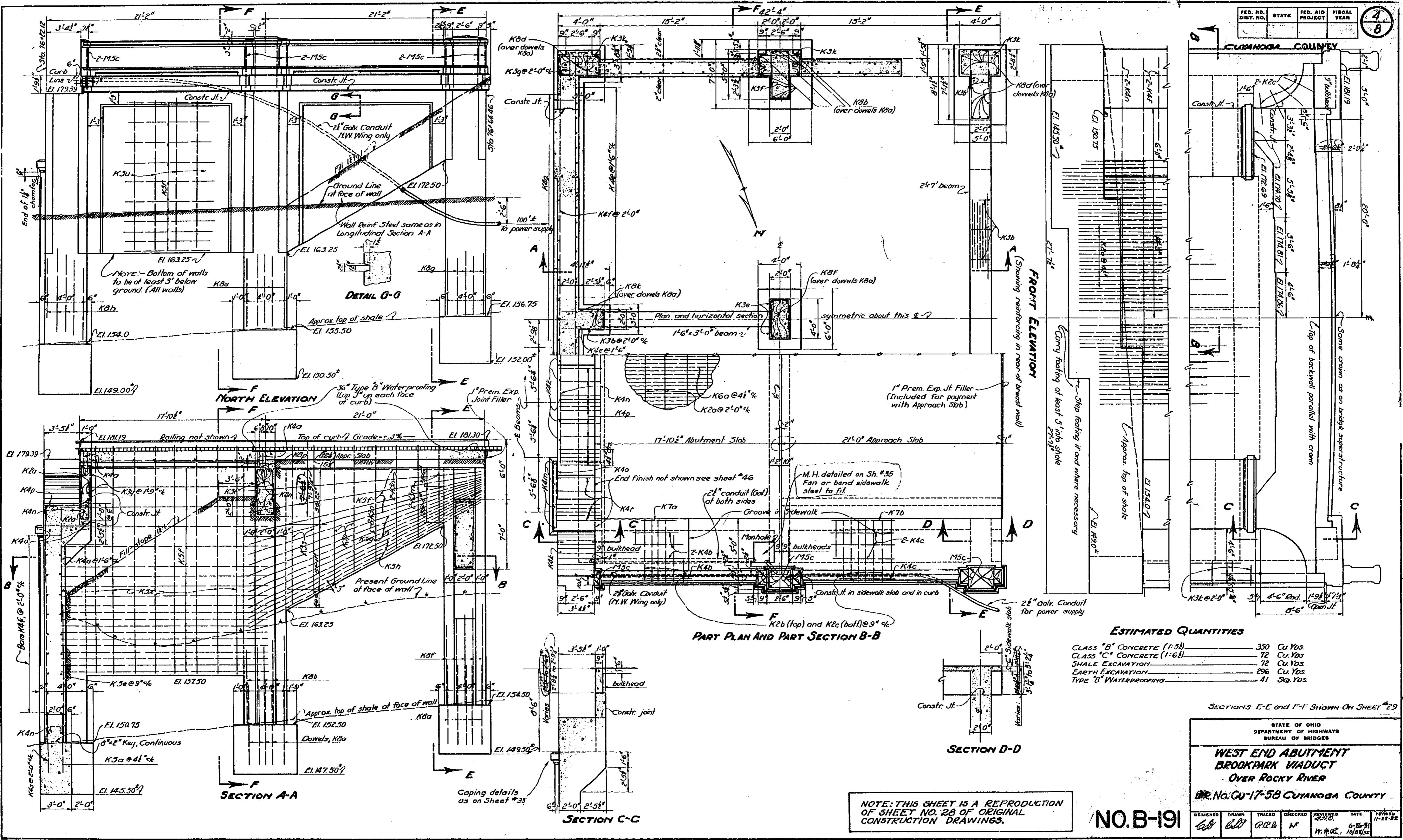


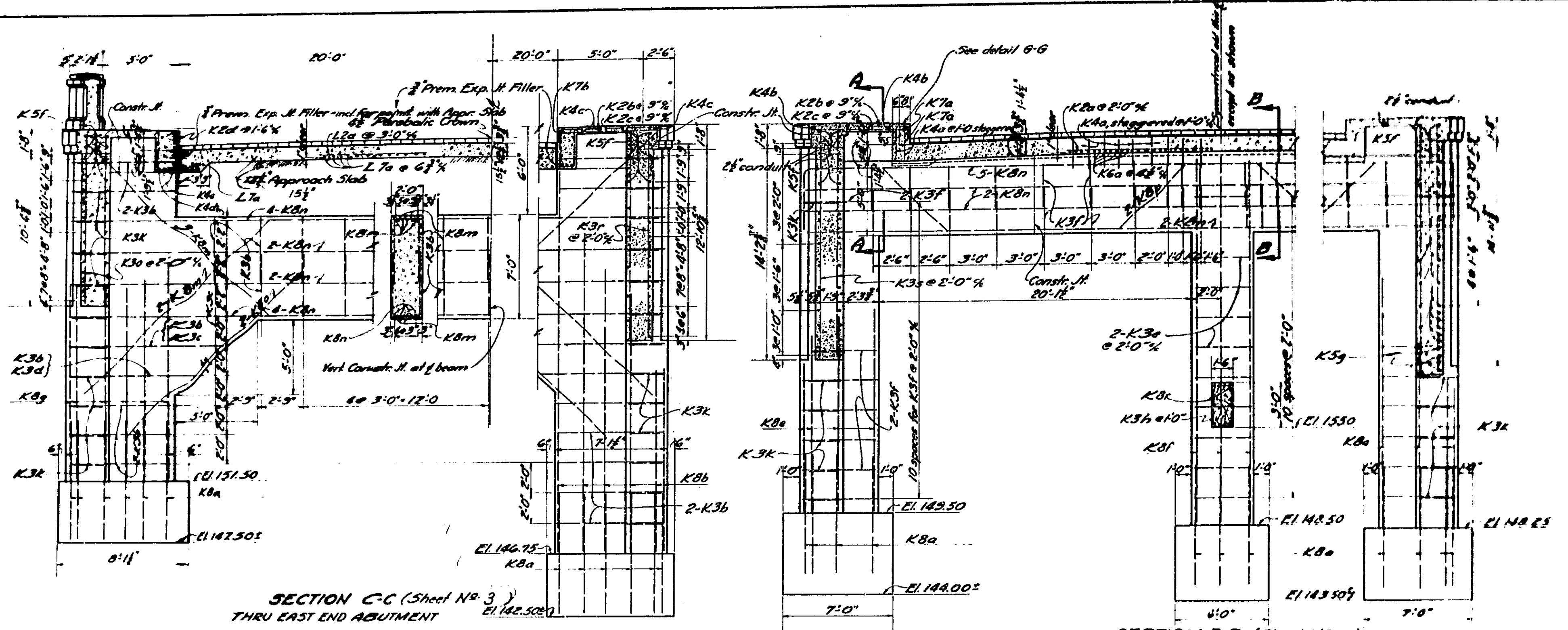
PART PLAN OF ROADWAY EXPANSION JOINTS

(SHOWING PROPOSED ANCHORING ANGLES)
"ITEM S-7 & SPEC. STRUCTURAL STEEL FOR ROADWAY EXPANSION JOINT ANCHORAGE COMPLETE IN PLACE- INCLUDING PAINTING."

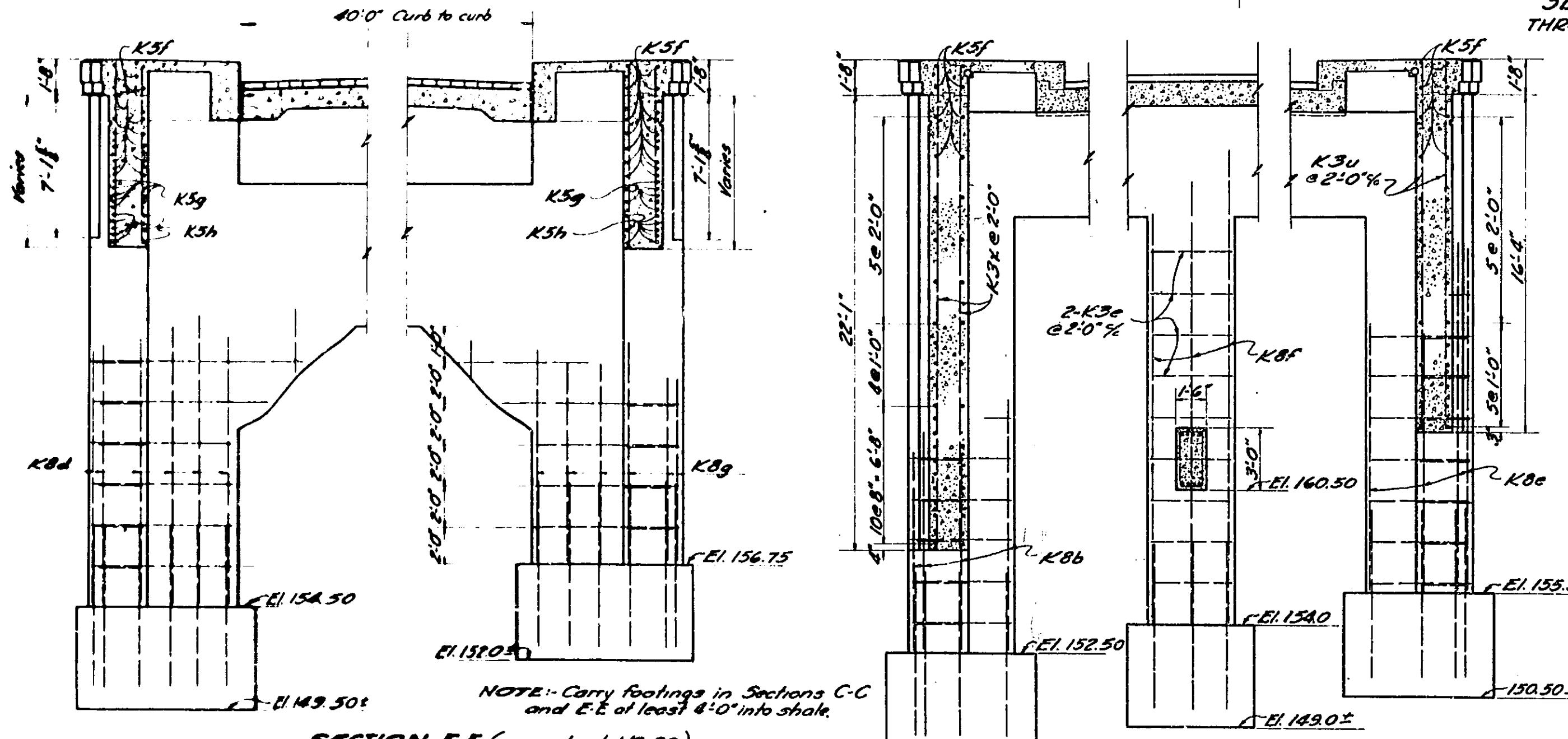
NO.B-191

DESIGNED C.F.B.	DRAWN C.F.B.	TRACED W.M.B.	CHECKED C.M.B.	REVIEWED W.H.C.	DATE 6-16-51	REVISED 7-6-53 8-5-53



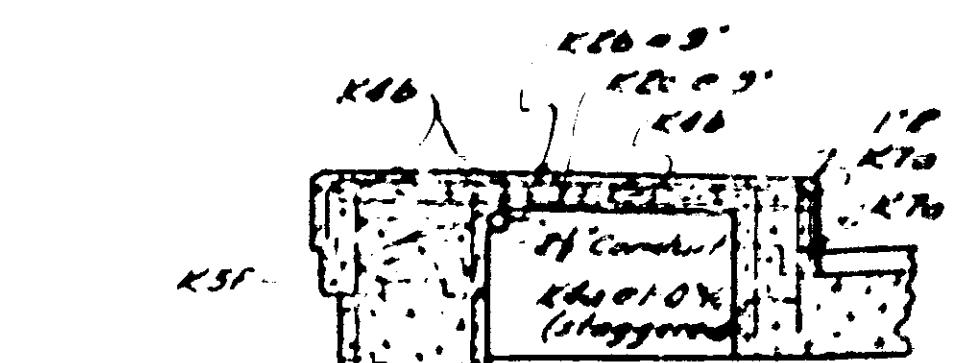


**NOTE: THIS SHEET IS A REPRODUCTION
OF SHEET NO. 29 OF ORIGINAL
CONSTRUCTION DRAWINGS.**



SECTION E-E (see sheet NO. 2)
(All details not shown are identical with Section C-C)
THRU WEST END ABUTMENT

SECTION F-F (see sheet No.28)
(All details not shown are identical with those in Section D.)
THRU WEST END ABUTMENT



SIDEWALK DETAIL 6-6
(Sidewalk Details in Section CC Drawing)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

