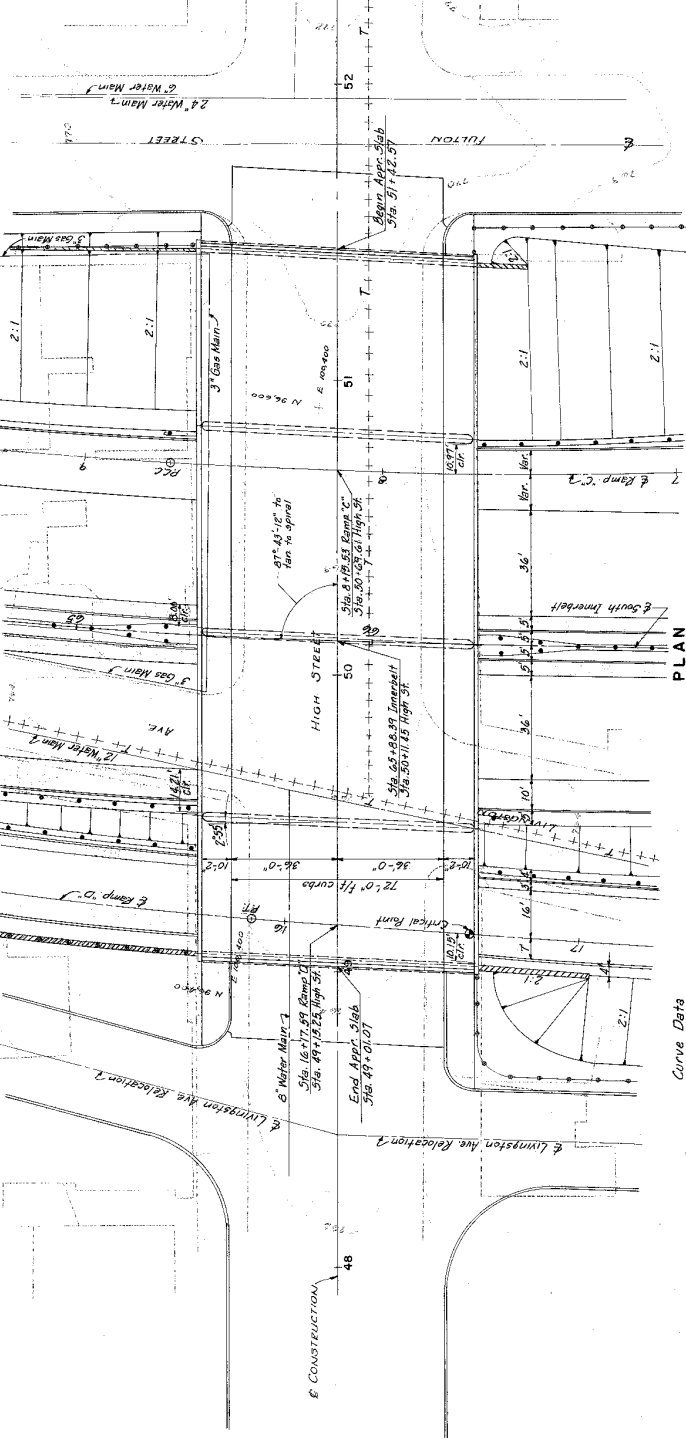


MICROFILMED
SEP 24 1965

PROJECT NO.	250
DATE	1965
STATE	OHIO
COUNTY	FRANKLIN COUNTY
PROJECT	FRA. 40-12.82



PROPOSED STRUCTURE

TYPE: Continuous steel beam with reinforced concrete parapets with aluminum railing

SPANS: 45'-3" (2x) to 23'-0" (1x)

ROADWAY: 72' (1x) with 0'-2" sidewalks and concrete parapets with aluminum railing

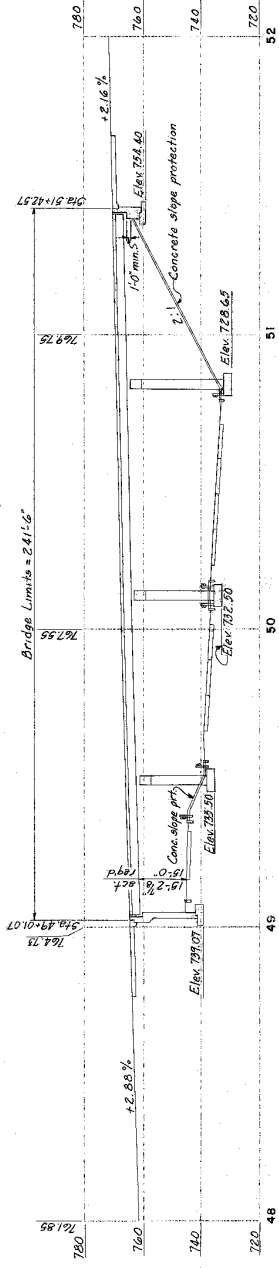
LOADING: HS-20 (1x)

WEARING SURFACE: 4" (1x) of 1 1/2" thick concrete

SKEN: 2'-65" (1x) Forward

ALIGNMENT: Tangent

APPROACH SLABS: 25'-0" long, see Sheet 09



ENGINEER	ALDEN E. EILSON & ASSOCIATES, UNITED CONSULTING ENGINEERS COLUMBUS, OHIO
PROJECT	FRANKLIN COUNTY STA. 65+88.84
DATE	5-8-65
DESIGNER	R.T.
CHECKER	R.T.
APPROVED	J.C.J.
PROJECT	FRANKLIN COUNTY STA. 65+88.84

SITE PLAN

BRIDGE NO. FRA. 40-1310

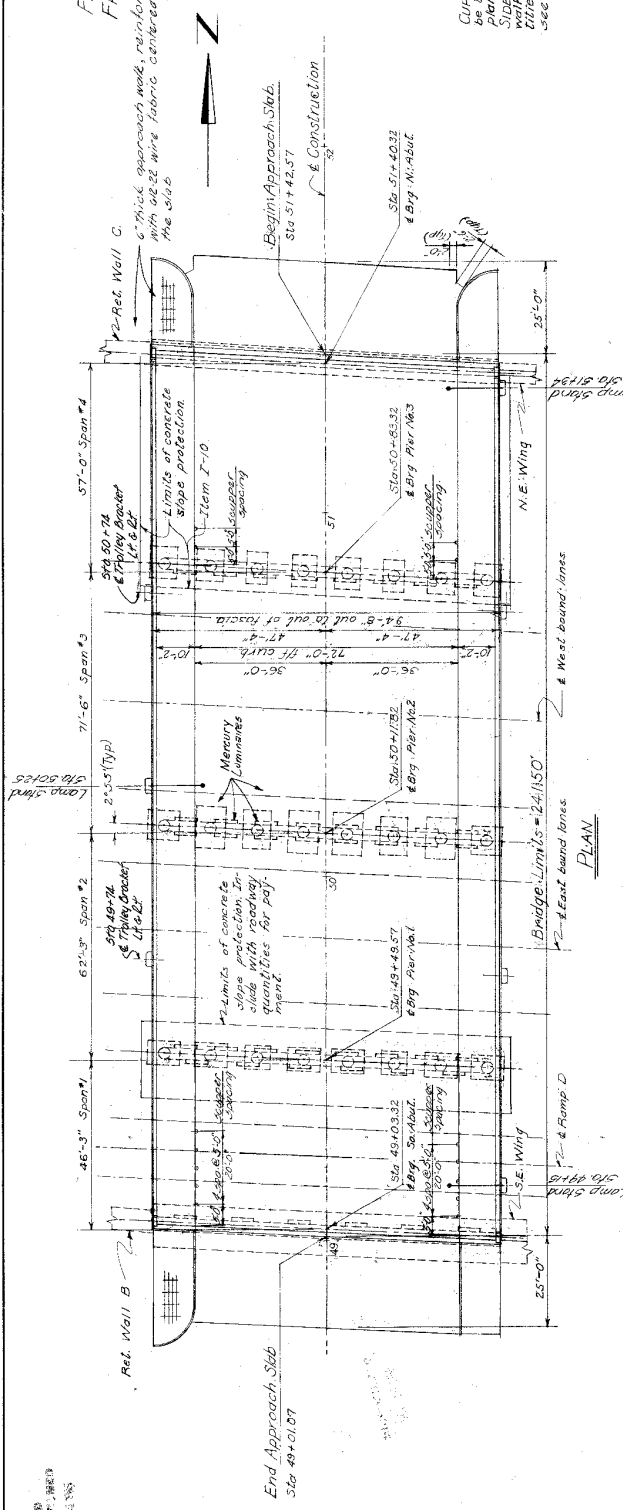
SOUTH INNERBELT UNDER HIGH STREET

13
250

DATE	PROJECT
2	OHIO

FRANKLIN COUNTY
 FRA 40-12.82

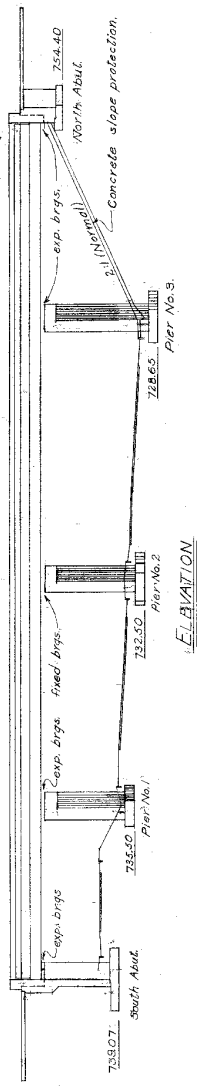
6" thick approach slab, reinforced with #22 wire fabric centered in the slab



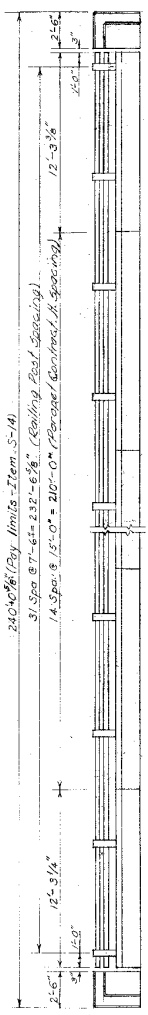
NOTES

Curbs on the approach slabs shall be maintained to match the curbs on the roadway SIDEWALK & APPROACH SLAB: The approach walks and slabs are included with roadway curbs. For additional approach slab details see standard drawing A2-1-84.

PLAN



ELEVATION



RAILING (Typical East and West)

DESIGNED BY	CHECKED BY	DATE
PM	BEETIN	7-20-82

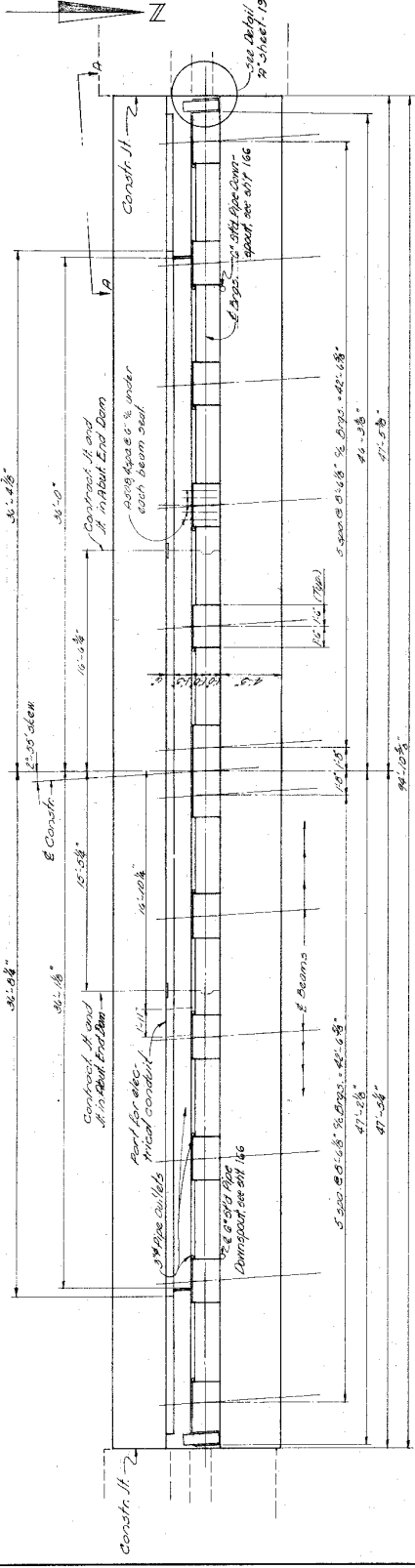
ADREN E. STILSON & ASSOCIATES, LIMITED
 CONSULTING ENGINEERS
 COLUMBUS, OHIO

GENERAL PLAN & ELEVATION
 BRIDGE No. FRA 40-1310
 SOUTH INNERBELT UNDER HIGH ST.
 FRANKLIN COUNTY STA 65+88.39

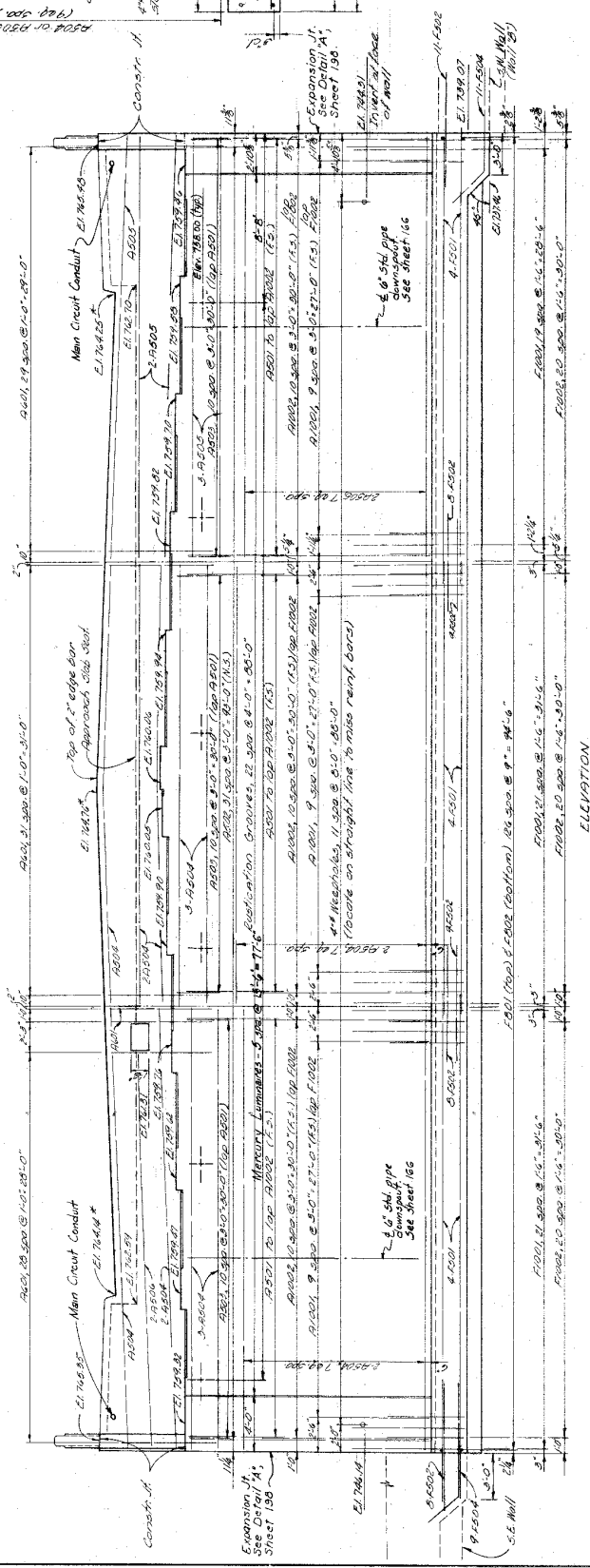
NO. OF SHEETS	DATE	PROJECT	DATE
2	OHIO		

FRANKLIN COUNTY
 194
 250

Note: For additional details and notes see sheet 130



* Note: Elevations marked with an asterisk are to top of #2 edge bar



ELEVATION

TYPICAL SECTION

OWNER	DATE	CHECKED	DATE
PM	2008		

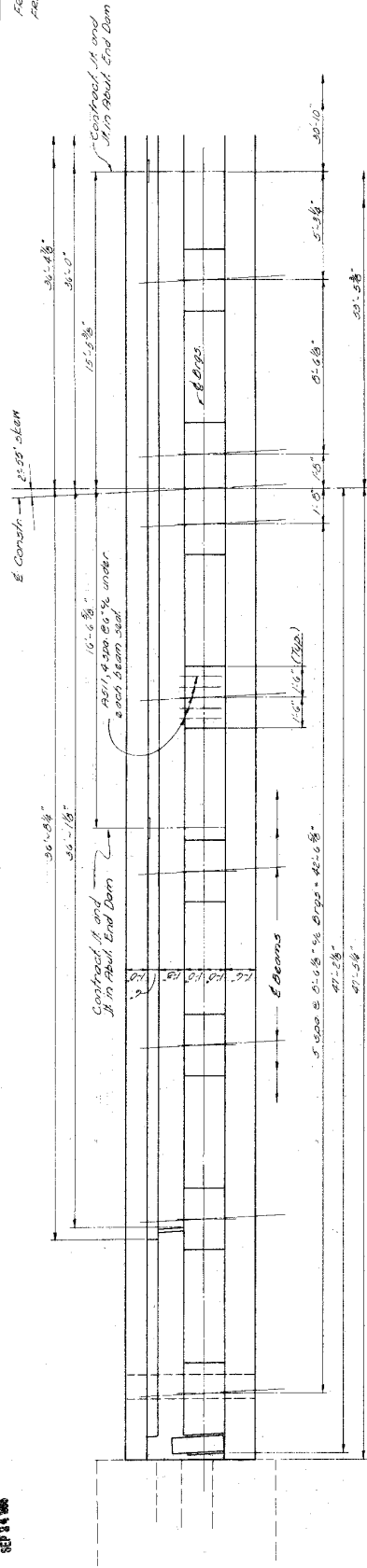
ADREN E. SILSON & ASSOCIATES, LIMITED
 CONSULTING ENGINEERS
 COLUMBUS, OHIO

SOUTH ABUTMENT
 BRIDGE NO. 729-40-210
 SOUTH IMPOSED UNDER HIGH ST.
 FRANKLIN COUNTY

579-6510039

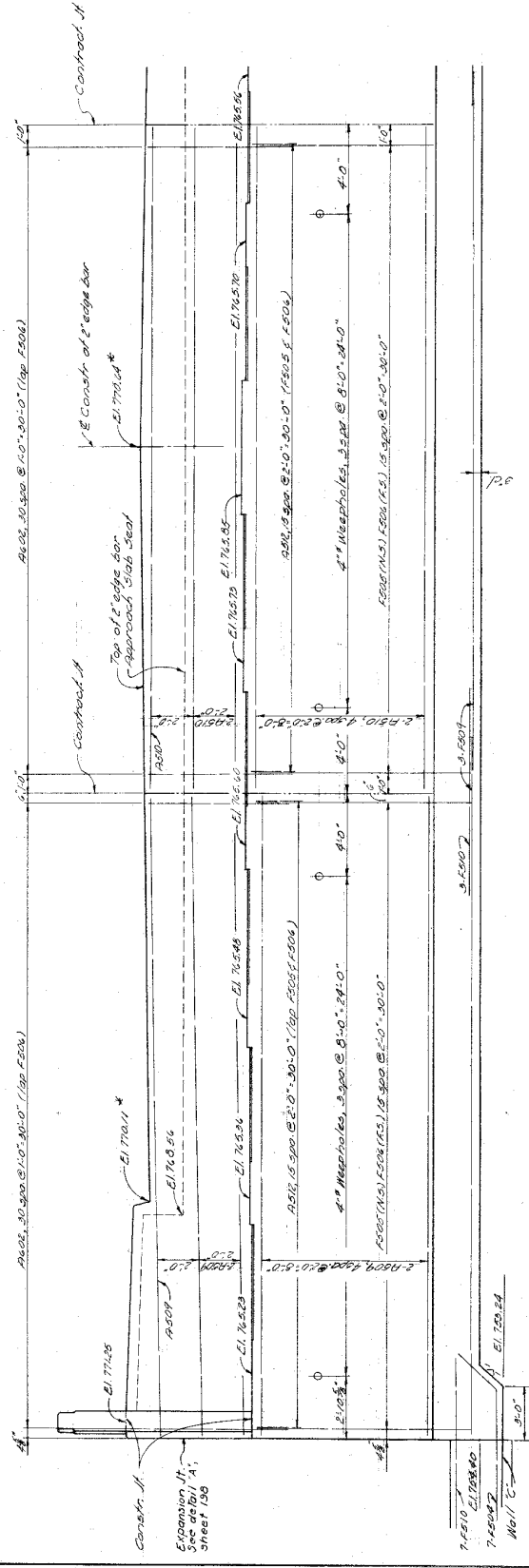
NO. OF SHEETS	195
TOTAL SHEETS	250
DIVISION	2
PROJECT	OHIO
DATE	
PROJECT	FRANKLIN COUNTY
DATE	APR-40-E-82

FRANKLIN COUNTY
APR-40-E-82



PLAN

NOTE: For additional details and marks see sheets (136 & 138) Elevations marked with an asterisk are to top of 2' edge bar



ELEVATION

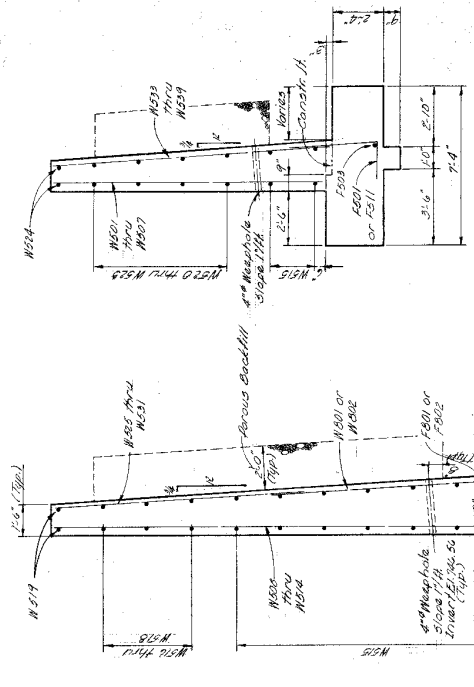
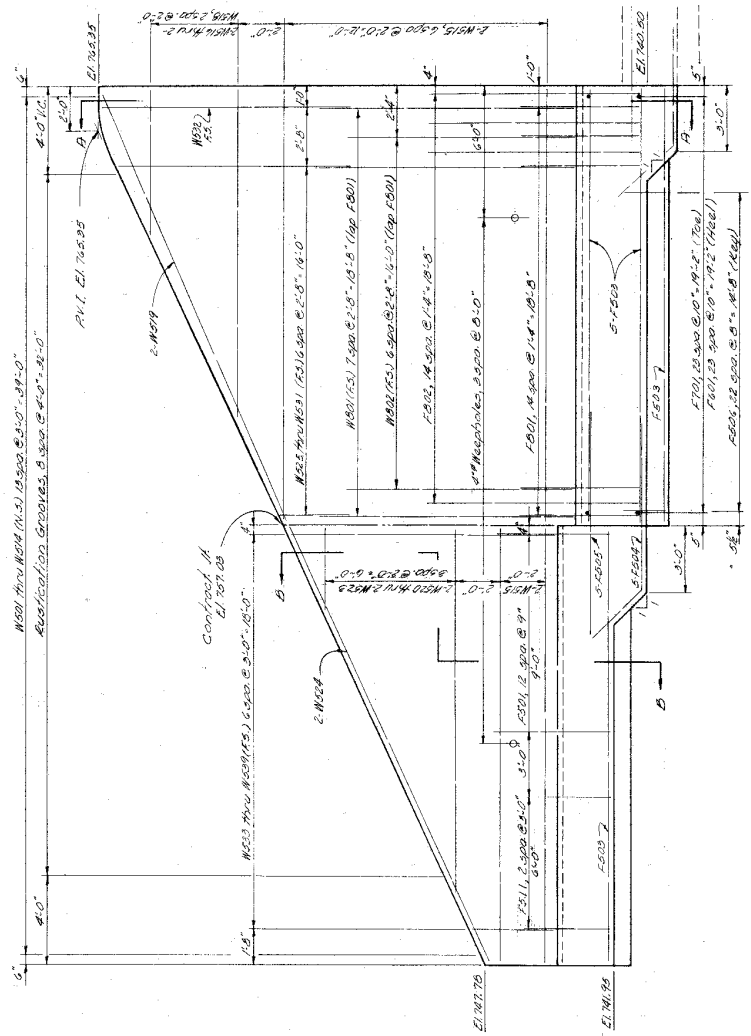
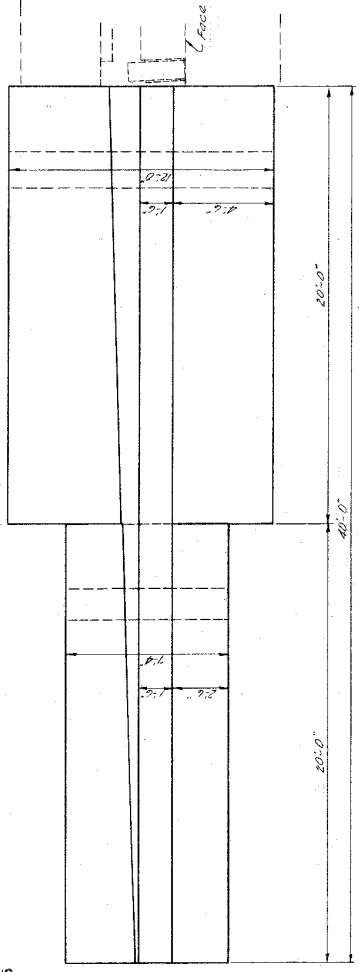
ALBA E. NELSON & ASSOCIATES, LIMITED CONSULTING ENGINEERS COLUMBUS, OHIO	
NORTH ABUTMENT	
BRIDGE No. FR-40-10	
SOUTH ABUTMENT UNDER HIGH ST.	
FRANKLIN COUNTY	
DATE	5/19-05/00/99
CHECKED	DAVE
DESIGNED	HEITMAN/AL
SCALE	AS SHOWN
NO. OF SHEETS	195
TOTAL SHEETS	250

197
250

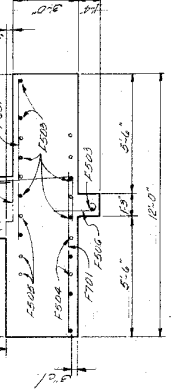
NO. OF SHEETS	DATE	PROJECT	DRAWN
2	O.H.O.		

FRANKLIN COUNTY
189-40-12.82

Note:
For common details and
additional notes see sheet 190



SECTION B-B



SECTION A-A

REVISIONS
MICROFILMED
SEP 14 1985

DESIGNED BY	DATE	CHECKED BY	DATE
PM	5/08	HEITMAN	7/8/82

ALDEN E. NELSON & ASSOCIATES, UNITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

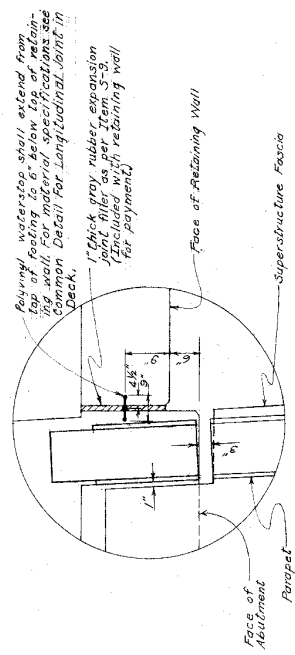
SOUTH EAST RETAINING WALL
BRIDGE No. 18A-40-180
SOUTH INDIAN UNDER HIGH ST.
FRANKLIN COUNTY

STA. 67+80.39

MICROFILMED
SER 44-885

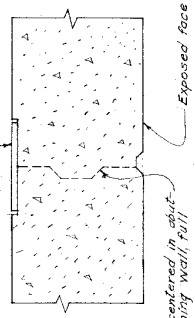
198	250
NO. OF SHEETS	TOTAL SHEETS
2	OHIO
DATE	PROJECT

FRANKLIN COUNTY
FRA 40-12.82



DETAIL A

Parapet
Face of Abutment
Face of Retaining Wall
Superstructure Fascia
1" thick epoxy rubber suspension (included with retaining wall for payment)



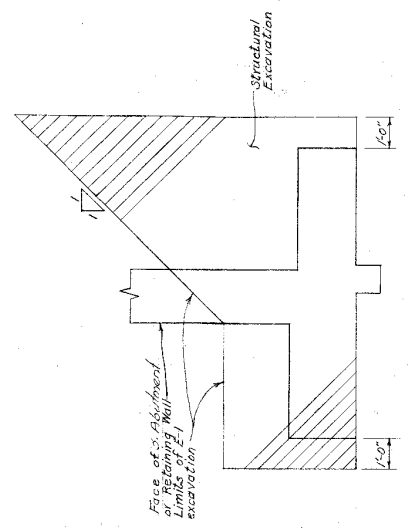
CONTRACTION JOINT DETAIL

1/8" x 5/8" key centered in abutment or retaining wall full height.



RUSTICATION GROOVE DETAIL

Exposed face of wall

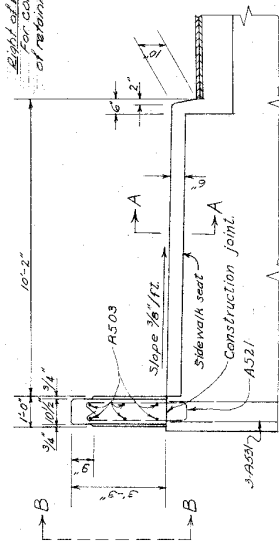


EXCAVATION DETAIL

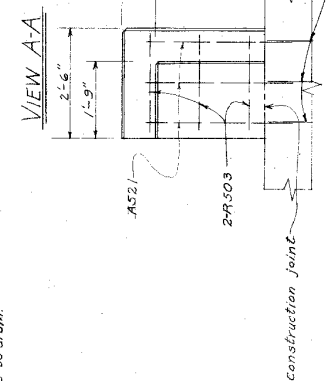
Face of Abutment or Retaining Wall
Limits of Excavation
Structural Excavation

PROCEDURE:
Before the back wall of the abutment alignment is placed, the backfill shall be placed and compacted to the required density with a 1:1 slope from the ridge seat to the subgrade.
CONCRETE END SEATS:
Concrete end seats are included with Item S-14 for payment.
Porous Backfill (Abutments):
Porous backfill shall extend upward to the approach slab or sidewalk for the full length of the abutment.
JOINTS: A joint shall be provided in the abutment portion of the end dam at each contraction joint.

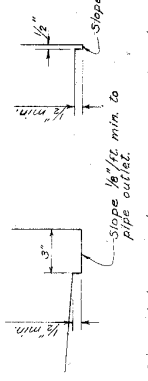
FOOTING KEY:
The key under the S Abutment & Southcast wingwall footing shall be placed in a carefully made trench against undisturbed earth.
Porous Backfill (Ret. Wall):
The top of porous backfill shall be 2'-0" below the top of the retaining wall.
Right of Way Fence:
For connection of fence to end post see details of retaining walls 2'-0" and sheet 163



SECTION A-A



VIEW A-A
VIEW B-B

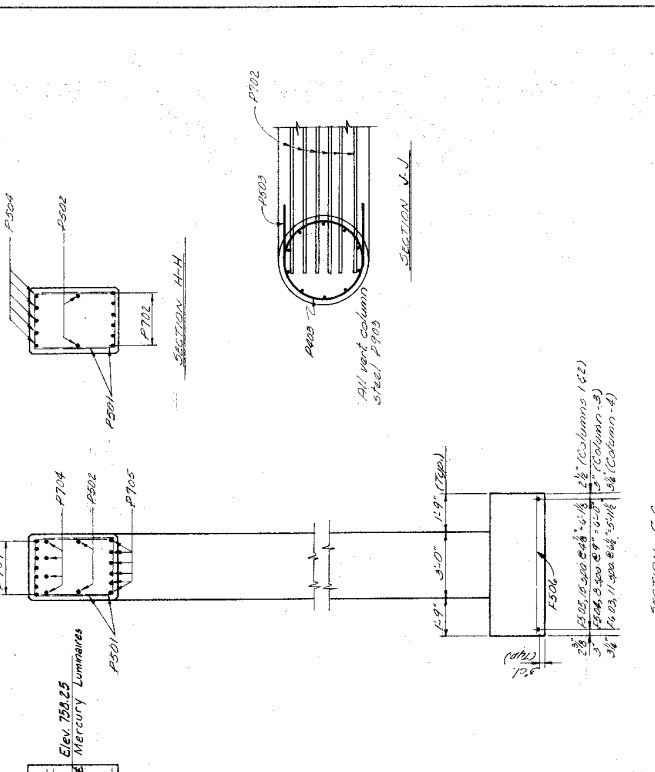
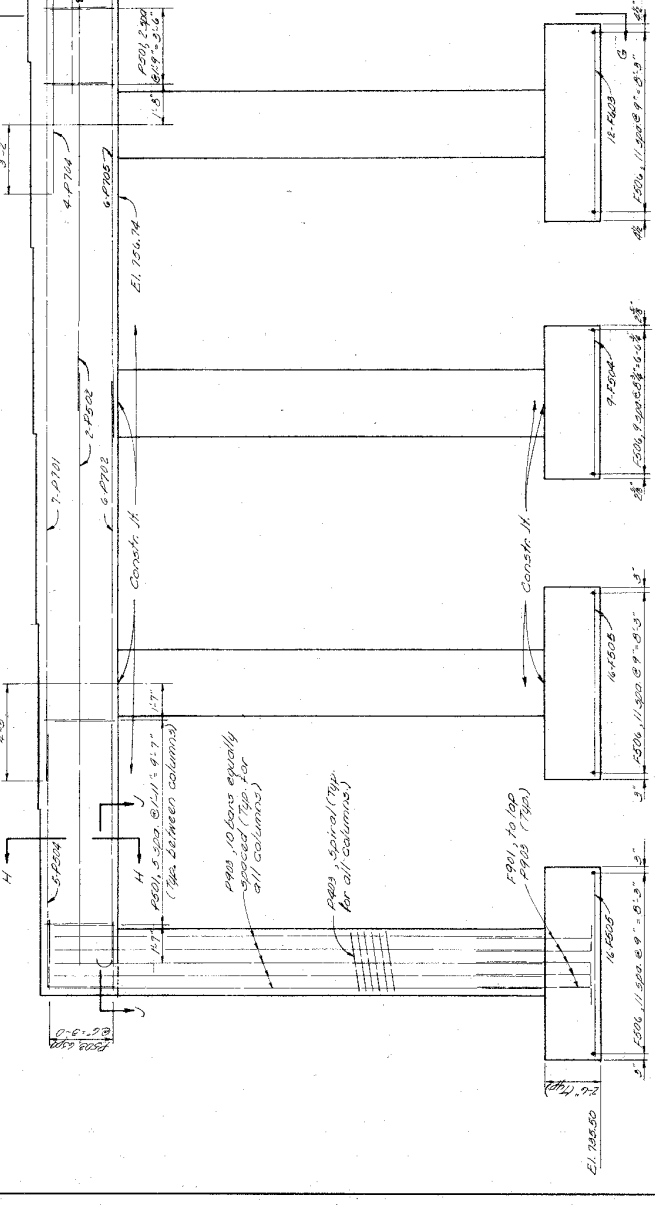
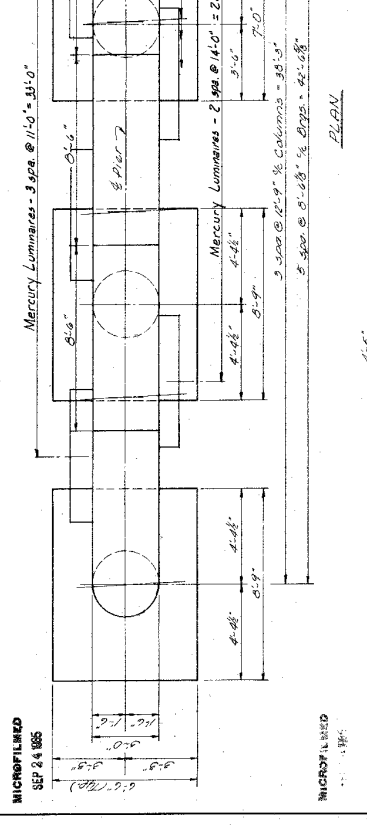


DRAINAGE GROOVE DETAILS

Groove at seats
Groove between seats
Slope to drain

ALDEN E. WILSON & ASSOCIATES, LIMITED REGISTERED PROFESSIONAL ENGINEERS COLUMBUS, OHIO	
PROJECT NO.	DATE
FRA 40-12.82	1-9-42
BY	CHECKED
AW	AW

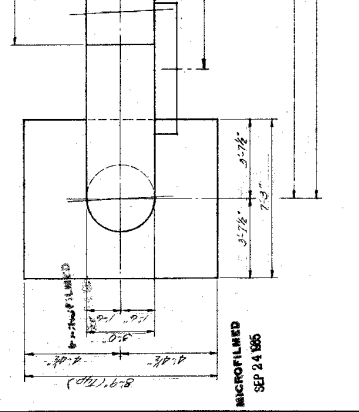
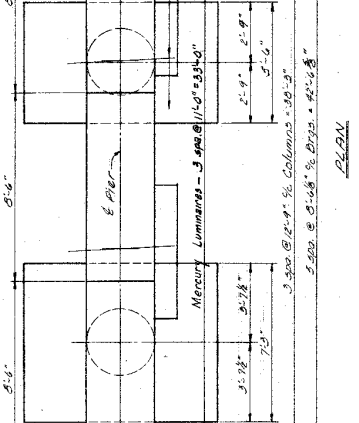
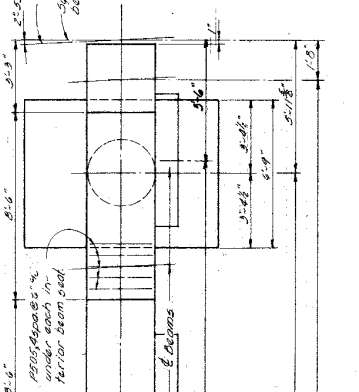
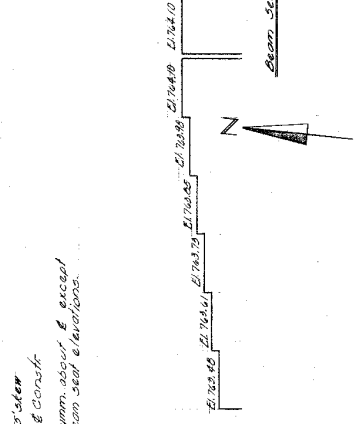
ABUTMENT & RETAINING WALL DETAILS
BRIDGE NO. FRA-40-1310
SOUTH INNERBELT UNDER HIGH ST.
FRANKLIN COUNTY STA. 65+88.39



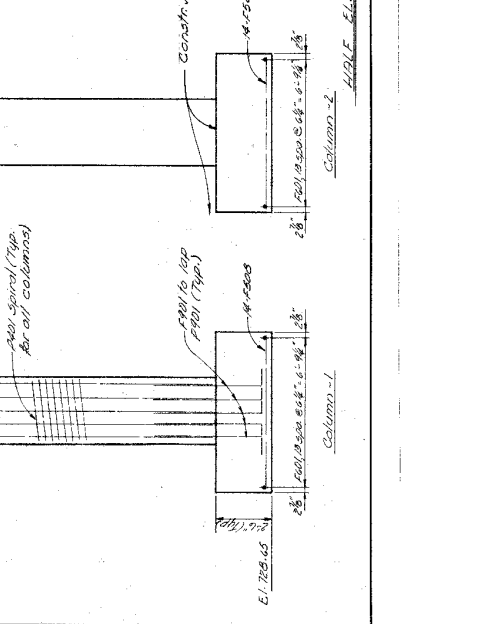
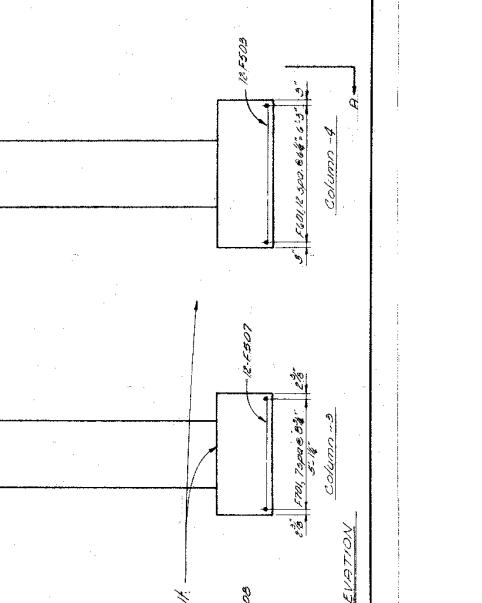
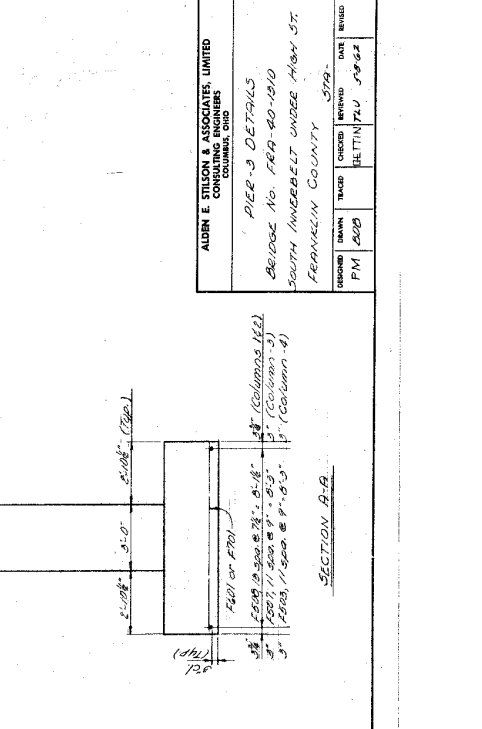
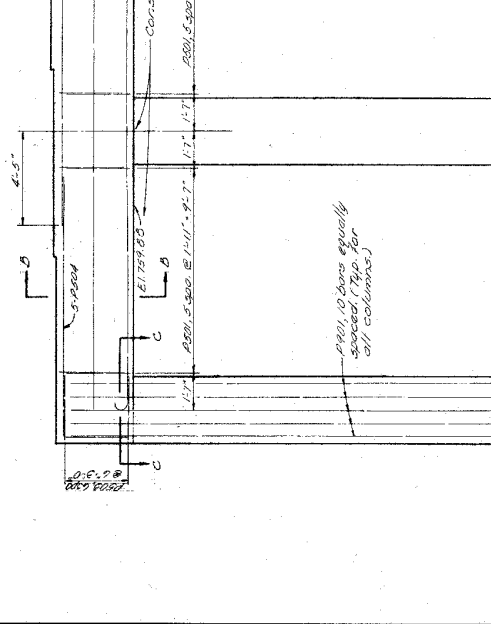
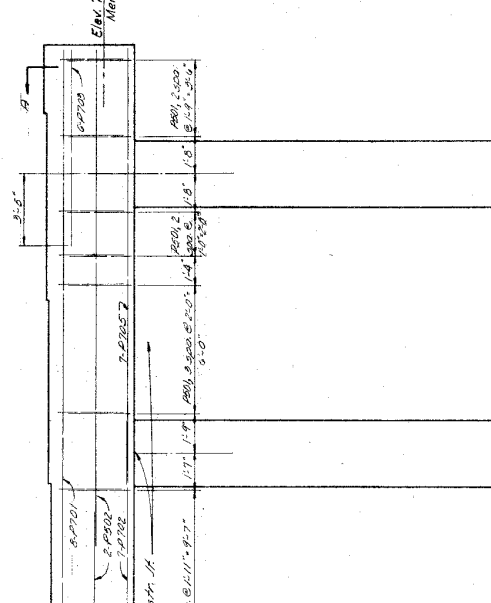
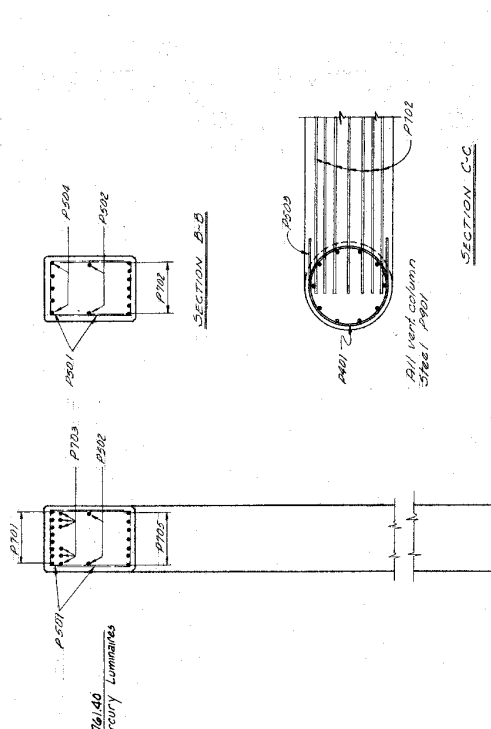
DESIGNED	DRAWN	CHECKED	DATE
P.M.	RETTIN		5-2-82
ALDEN E. STILSON & ASSOCIATES, LIMITED CONSULTING ENGINEERS COLUMBUS, OHIO			
PROJECT NO. 579-65-208-39			
BRIDGE NO. FRP-40-1310			
FRANKLIN COUNTY			

NO. IN SERIES	DATE	BY	PROJECT	SCALE	FIG. NO.
2	OHIO		FRANKLIN COUNTY		201/250

FRANKLIN COUNTY
 169-40-162



MICROFILMED
 SEP 24 1965



DESIGNED	DRAWN	CHECKED	DATE
PM	200		7/8/62

ALDEN E. WILSON & ASSOCIATES, UNITED
 CONSULTING ENGINEERS
 COLUMBUS, OHIO

PIEP-3 DETAILS
 BRIDGE NO. 169-40-162
 SOUTH AMHERST UNDER HIGH ST.
 FRANKLIN COUNTY, OHIO

3'-0" Mercury Luminaires - 3 ft. dia. @ 11'-0" o.c.
 3 Columns @ 11'-0" o.c.
 3 ft. dia. @ 11'-0" o.c.

3'-0" Mercury Luminaires
 3'-0" Columns

222
2250

NO. OF SHEETS 2 DATE 1966

2 OHIO

FRANKLIN COUNTY
FRA 40-12.82

FRANKLIN COUNTY
FRA 40-12.82

** Construction (construction of bridge symmetrical except for approach).*

Reinforced concrete top (see detail for standard long-truss joint in deck sheet 166.)

Morse.

Concrete parapets are included with Item 5-M for payment.

Subparapets as per Item 5-H shall be placed on the face of sidewalk curb.

10'-2"

36'-0"

5'-0"

5'-0" = 24.5 spacing 1'-4 1/2" = 3.9' = 3.9' = 0"

Top 5'-0" = 23 spacing 1'-4 1/2" = 3.1' - 1/2" Tower piers only - See stagger diagram.

All principal bars 5'-0" or S605 except as shown. Lap S605 1-M minimum.

3/4" diameter, washing surface, S-24

Type "C" Waterproofing

See detail for 4" S605 or S602

1/4" Typ. between beams

S601 or S602

1/2" (Typ.)

5'-0" or S702

1'-0"

1'-0"

Main Circuit Conduit

S603 or S604 1'-4" to top S501

5'-0" or S605 1'-4" to top S604 or S605

S604

S605

1'-0" Beam #1

1/2" dia. - 1/2" round drip groove.

1'-0"

1'-0"

The haunch in the deck ribs adjacent to the top of the steel beams, which is shown as 9" wide, may vary from this dimension with a minimum of 6" and maximum of 12". Maximum slope of haunch shall be one vertical to one horizontal.

* These are the nominal dimensions. The quantity of deck concrete to be paid for shall be based on these dimensions even though deviation from them may be necessary because the top flange of the beam may not have the desired camber or conformation required to place it parallel to the finished grade.

3'-0" or S702

1'-0"

1'-0"

1'-0"

1'-0"

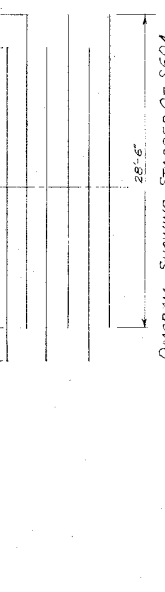
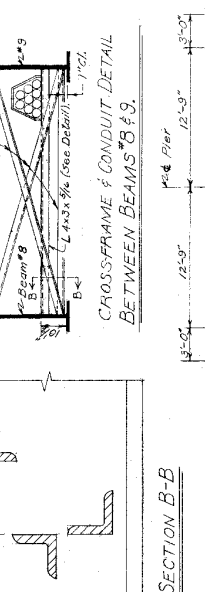
1'-0"

1'-0"

1'-0"

TRANSVERSE HALF SECTION

5'-0" @ 1'-6" = 42'-6"



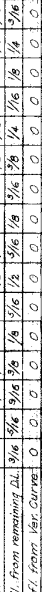
** DECK OVER BEAMS

CROSSFRAME & CONDUIT DETAIL BETWEEN BEAMS #8 & 9

3'-0" or S702

1'-0"

1'-0"



DEFLECTION AND CAMBER

LOCATION	Beam Rows 1/2	Beam Rows 2/1	Rows 3, 4, 5, 6/7/8	Rows 6/7
Dist. from wt. of beam	0	0	0	0
Dist. from remaining DL	1/8	1/8	1/8	1/8
Dist. from 1st Curve	0	0	0	0
Total Deflection	0	0	0	0
Camber	0	0	0	0



7'-6" Construction

Place all transverse bars parallel to abutment.

5'-0" or S702

1'-0"

1'-0"

5'-0" or S702

1'-0"

1'-0"

1'-0"

1'-0"

1'-0"

1'-0"

MICROFILMED SEP 24 1985

ALDEN E. TILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

SUPERSTRUCTURE DETAILS
BRIDGE NO. FRA-40-1310
SOUTH INNERBELT UNDER HIGH ST.
FRANKLIN COUNTY STA 65+98.55

DRAWN	DATE	CHECKED	DATE
PM	PM	JTW	5-22-62

203
E.S.O.

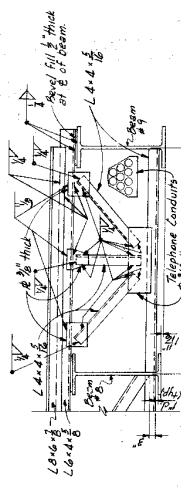
NO. OF SHEETS	DATE	PROJECT	DATE
2	O.H.O.		

FRANKLIN COUNTY
FRA-40-12.82

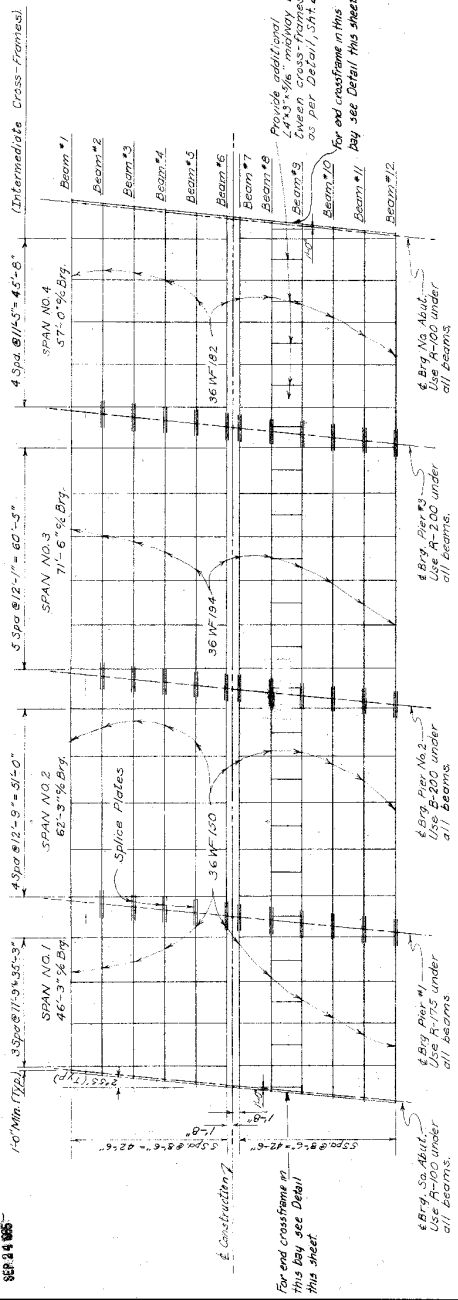
LOCATION	Top Flange Size	Web Size	Bottom Flange Size	Beam Size
Pier #1	10 1/2" x 1/2"	1 1/2" x 1/2"	10 1/2" x 1/2"	7'-9"
Pier #2	10 1/2" x 1/2"	1 1/2" x 1/2"	10 1/2" x 1/2"	7'-9"
Pier #3	10 1/2" x 1/2"	1 1/2" x 1/2"	10 1/2" x 1/2"	9'-0"

BEAM SPLICE WELDING PROCEDURE

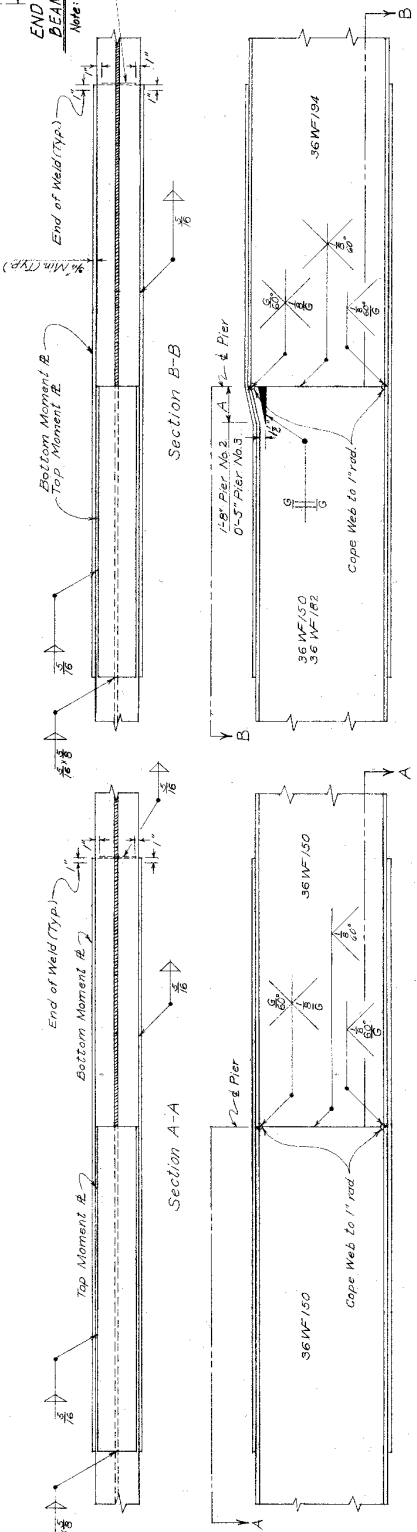
1. Butte end of beam of Pier #2, 7/8".
2. Butt weld beam flanges and web at Pier #1 using the following sequence: Make one pass on each flange, then two on the web; repeat using one pass at each location until welds are completed.
3. Lower end of beam of Pier #2 and #3 in the same manner, raising the end of the beam of Pier #3 1/8" and of the North Abutment 3/8".



END CROSS-FRAME DETAIL BETWEEN BEAMS #2 AND #3 AT NORTH ABUTMENT
 Note: End crossframe between beams #2 and #3 at South Abutment is similar.



STEEL FRAMING PLAN



Pier No. 1

Piers No. 2 & 3

BEAM SPLICE DETAILS

ALLEN E. WILSON & ASSOCIATES, LIMITED
 CONSULTING ENGINEERS
 COLUMBUS, OHIO

SUPERSTRUCTURE DETAILS
 BRIDGE No. FRA-40-1310
 SOUTH INNERBELT UNDER HIGH ST.
 FRANKLIN COUNTY STA 65+88.39

DESIGNED BY	DATE
PM	PM
CHECKED BY	DATE
ENGINEER	DATE

UNRECORDED
 SEP 24 1982

MICROFILMED
SEP 24 1986

DATE	PROJECT	SCALE	DATE
1	OHIO		

Franklin County
FRA-40-1282

REFERENCES:

Standard Drawings:

End Dam and End
Cross Frame Details

Soupper Details

Railing Details Type C

Approach Slab Details

Supplemental Specification

Common Details:

- Downspout and Conductor Details - Sheet 166
- Lighting Details - Sheet 165
- Railing Details - Sheet 163
- Concrete Slope Protection Details - Sheet 163
- End Dam Details - Sheet 163
- R/W Fence Details - Sheet 163
- Sidewalk End Dam Details - Sheet 164
- Soupper Details - Sheet 164
- Longitudinal Det: Joint - Sheet 166

- CSB-2-56, Sheets 2 & 3

Revised 2-2-59

- CSB-2-56, Sheets 2 & 3

Revised 2-2-59

- AR-1-57, Revised 4-2-62

- RB-1-55, Revised 2-2-59

- AS-1-54, Revised 7-5-62

- 3-101, Dated 7-12-62

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 revisions thereof dated 2-21-58.

FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on a study of rod soundings and soil sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in an abridged form in the Division office, but the State assumes no responsibility for the accuracy thereof.

WELDING OF structural steel shall be Class "A" except as otherwise shown. Any welds shown as field welds may be, at the option of the contractor, made in the shop. Class "B" welding shown thus:

B)

CONCRETE DECK PLACING: In order to facilitate water curing of the concrete in the deck slab, the placing of concrete shall progress up grade. The slab may be placed in sections between transverse construction joints which are parallel to the transverse slab bars and are located near the center of any span.

CONCRETE SLOPE PROTECTION shall be provided under the structure as indicated on the general Plan.

BEARING SURFACES: The concrete surface under all rockers and bolsters shall be placed a minimum of 1/4-inch above the required elevation and accurately ground to the final elevation. Cost shall be included with the pertinent concrete item S-1.

TRAFFIC MAINTENANCE: For details of traffic maintenance, see Roadway Plans.

FOUNDATION BEARING PRESSURE: Pier footings are designed for a maximum bearing pressure of 3 tons per square foot and abutment footings for 3 tons per square foot for South Abutment and 2 tons per square foot for North Abutment.

UTILITY LINES: All labor and expenses involved in relocating the affected utility lines shall be borne by the Owners. The Contractor shall be responsible for arranging for their work in such a manner that inconvenience to either will be held to a minimum.

WIRING DETAILS: For details and notes for wiring, see Roadway Plans.

ELECTRICAL GROUNDS: A stranded No. 10 AWG 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 terminate in a 25-foot length coil placed under the footing and separated from the concrete by two layers of tar paper and the upper ends shall extend sufficiently above the top of the concrete to provide for an exothermic welded connection to outside beam of the superstructure. The wires shall be protected by a 1/2" diameter galvanized steel pipe, capped at both ends. The pipe shall be fastened to the anchor bolt and the other end to the top flange of the outside beam.

CURING: Deck concrete shall be cured in accordance with Sec. S-1.21 Method (a) using a continuous application of water. Plastic coated burlap or mats shall not be used.

GRAVEL, if used as the coarse aggregate, shall be in accordance with Sec. H-3.93 unless noted otherwise. Concrete in the superstructure shall be Class "B" for Class "A" concrete in the superstructure. Gravel meeting the requirements of Sec. H-3.93 also may be used for other concrete in this structure.

SHOP PAINTING STEEL: The surface preparation of all steel, requiring shop painting as per the Plans and Specifications, shall be accomplished by blast cleaning or power tool cleaning, except as noted in the Specifications regarding the use of Chromate Primers.

SHEET LEAD shall conform to the requirements of ASTM Designation B29 without restriction to the Common Desilverized type.

CONTINUOUS BEAM SPLICES: If beams having depths differing by more than 1 1/2" are used, the depth of the smaller beam shall be increased by splitting the web longitudinally at a distance of 1-1/2" below the bottom of the top flange and for a distance sufficient to allow the flange to be bent up at a slope of not more than 3/8" per foot, after which the split in the web shall be completely welded with full depth penetration and ground flush.

SURFACE FINISH OF CONCRETE: The requirements of Sec. S-1.22, Rubbed Finish, shall apply to the following exposed concrete surfaces:

- The entire superstructure except the top and bottom surfaces of roadways and sidewalks.
- All surfaces of piers and abutments which will be exposed upon completion of the construction except bridge seats, backwalls, and the face of spill-thru abutment between outside beams.

GENERAL NOTES
ALVIN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

BRIDGE No. FRA-40-1310
SOUTH INNERBELT UNDER HIGH ST.

FRANKLIN COUNTY STA. 65+85.59

DESIGNED	DRAWN	RECD	CHECKED	REVIEWED	DATE
			T.L.U.		5-8-62