

IMPROVEMENT IS ESPECIALLY DESIGNED THROUGH TRAFFIC AND HAS BEEN DECLARED LIMITED ACCESS HIGHWAY OR FREEWAY BY THE DIRECTOR OF HIGHWAYS IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 REVISED CODE OF OHIO.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

ACI-1088 (3)

MONTGOMERY COUNTY
DAYTON
DAYTON EXPRESSWAY SYSTEM
EXPRESSWAY-PART 3
MOT-25-15.88

DAYTON EXPRESSWAY SYSTEM

Yellow

MOT.-25-15.88
MONTGOMERY COUNTY
CITY OF DAYTON
HARRISON TOWNSHIP

LIMITED ACCESS

PART 3 - KEOWEE STREET TO NEFF ROAD

NOTE: Federal Project No. D-1088(3) appearing throughout these plans shall be considered to read ACI-1088(3).

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF HIGHWAYS, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH IN THE PLANS AND ESTIMATE.

THE RIGHT OF WAY FOR THIS IMPROVEMENT WILL BE PROVIDED BY THE STATE OF OHIO.

APPROVED DATE 12-18-57
APPROVED DATE 12-18-57
APPROVED DATE 12-18-57
APPROVED DATE 12-14-57
APPROVED DATE 12-14-57
APPROVED DATE 1-3-58
APPROVED DATE 12-30-57
APPROVED DATE 1-2-58
APPROVED DATE 1-2-58
APPROVED DATE 1-2-58
APPROVED DATE 1-2-58
APPROVED DATE 1-2-58
APPROVED DATE 1-2-58

Max L. Mitchell
CHIEF ENGINEER MIAMI CONSERVANCY DISTRICT
R. H. Mitchell
DIRECTOR OF SERVICE AND BUILDINGS, CITY OF DAYTON
E. D. Oberman
CITY MANAGER, CITY OF DAYTON
E. H. Mahoney
DIVISION DEPUTY DIRECTOR
DEPUTY DIRECTOR OF PLANNING AND PROGRAMMING
R. E. Shultz
ENGINEER OF BRIDGES
R. E. Shultz
ENGINEER OF LOCATION AND DESIGN
R. E. Shultz
DEPUTY DIRECTOR OF DESIGN AND CONSTRUCTION
R. E. Shultz
FIRST ASSISTANT DIRECTOR
R. E. Shultz
ACTING DIRECTOR OF HIGHWAYS

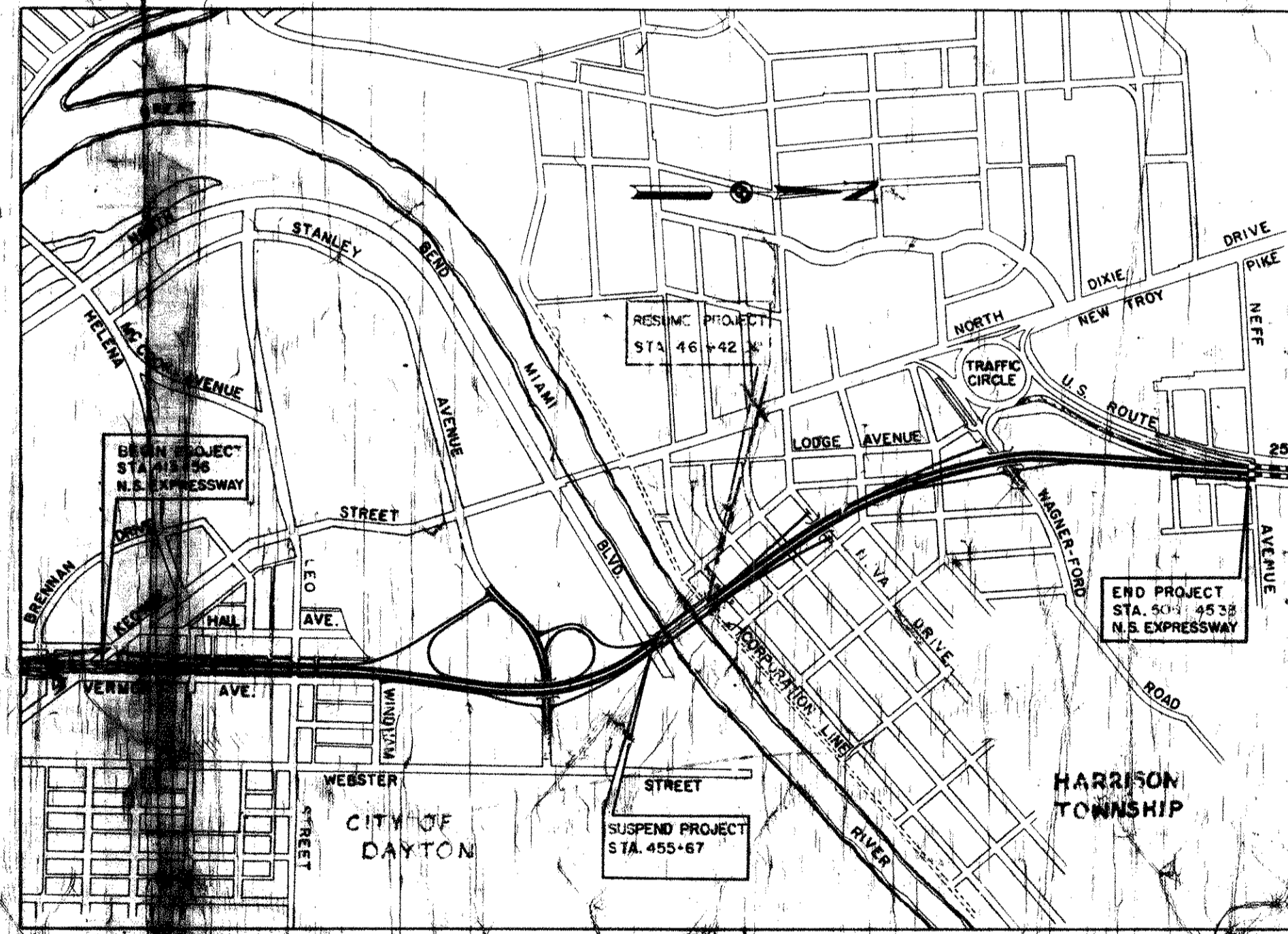
INDEX OF SHEETS

SHEET	37-39	DRAINAGE DETAILS
PLAN	40-69	CROSS SECTIONS
REFERENCE PTS.	70-76	RIGHT OF WAY
NOTES	77-78	PUMPING STATION NOTES
QUANTITIES	79-83	ONE AVENUE PUMPING STATION
INITIALS	84-101	STANLEY AVENUE PUMPING STATION
GENERAL NOTES & ESTIMATED QUANTITIES (STRUCTURES)	102-103	
COMMON DETAILS	104-105	
EXPRESSWAY OVER LEO STREET	106-112	
EXPRESSWAY OVER STANLEY AVENUE	113-123	
PEDESTRAIN UNDERPASS AT STA. 463+06	124-125	
EXPRESSWAY OVER NEVA DRIVE	126-134	
EXPRESSWAY OVER WAGNER FORD ROAD	135-144	

Shts 114-113 revised 6-3-58
Sheet 81 revised 2-30-58
Sheets 103, 112 & 114 revised 1-16-58

LINE DATA

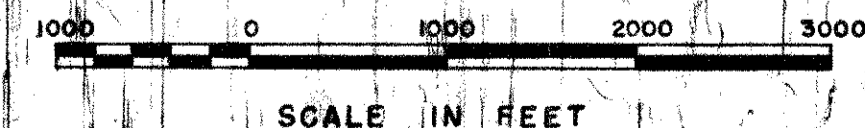
RESUME PROJECT	STA. 413+56.00	
SUSPEND PROJECT	STA. 455+67.00	4211.00 LIN. FT.
RESUME PROJECT	STA. 461+42.00	4403.83 LIN. FT.
END PROJECT	STA. 505+45.33	
TOTAL LENGTH OF PROJECT		8614.83 LIN. FT. = 1.631 MILES
RESUME PROJECT	STA. 0+00 TO STA. 15+40 = 1494.91 LIN. FT.	
SUSPEND PROJECT	STA. 410+10 TO STA. 413+56 = 346.00 LIN. FT.	
RESUME PROJECT	STA. 455+67 TO STA. 456+95 = 128.00 LIN. FT.	
SUSPEND PROJECT	STA. 460+52 TO STA. 461+42 = 90.00 LIN. FT.	
RESUME PROJECT	STA. 505+45.33 TO STA. 505+84 = 38.67 LIN. FT.	
END PROJECT	STA. 0+56 TO STA. 8+64 = 826.00 LIN. FT.	
TOTAL LENGTH OF PROJECT		11,537.91 LIN. FT. = 2.185 MILES.



LOCATION PLAN

DELIVERY POINT: 8 & T WEBSTER AVE. 27 MILES AVERAGE HAUL

Sheets 103, 110, 112, 117, 119, 122, 123, 132, 134, 138, 139, 140, 141, 143 & 144 revised 4-28-59.



PORTION TO BE IMPROVED
OTHER HIGHWAYS AND STREETS
FUTURE WORK

SUPPLEMENTAL SPECIFICATIONS

NUMBER	DATE	BY
5	6-1-55	
18	REV.	
E-101	1-1-55	
S-114	REV.	

STANDARD DRAWINGS			
NUMBER	DATE	NUMBER	DATE
S-27	4-1-54	I-8 C.B. 2-50	2-6 5-11-52
		I-8 C.B. 3-1	2-4 5-11-52
I-21-23	8-1-56		
L-3-A	4-1-50	I-8 I.N.O. 2	12-1-54
L-3	4-1-50	I-8 M.H. NO. 1	5-1-52
R-1	1-3-55	I-8 M.H. NO. 1-A	1-3-55
T-35	1-2-56	I-8 M.H. NO. 2	5-1-52
L.J. NO. 1	7-1-55	I-12	7-1-54
T.J.	5-1-56		4-1-57
A.S.-1-54	12-1-54	I-15 NO. 1	8-1-55
Q.S.-1	12-17-56	I-15 NO. 2	6-1-57
I-1, 2, 3, 4, 5	2-20-45		
I-6, 7, 8, 2-AB	3-1-54	6-7-07	6-1-56

Revised R/W Plan, Sheet No. 75 by adding three non-limited access parcels J.R.B. 5-14-58

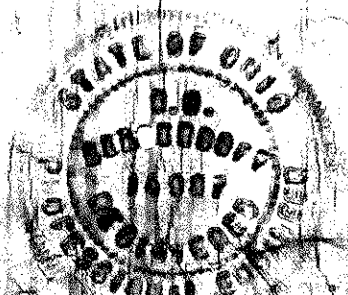
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED:

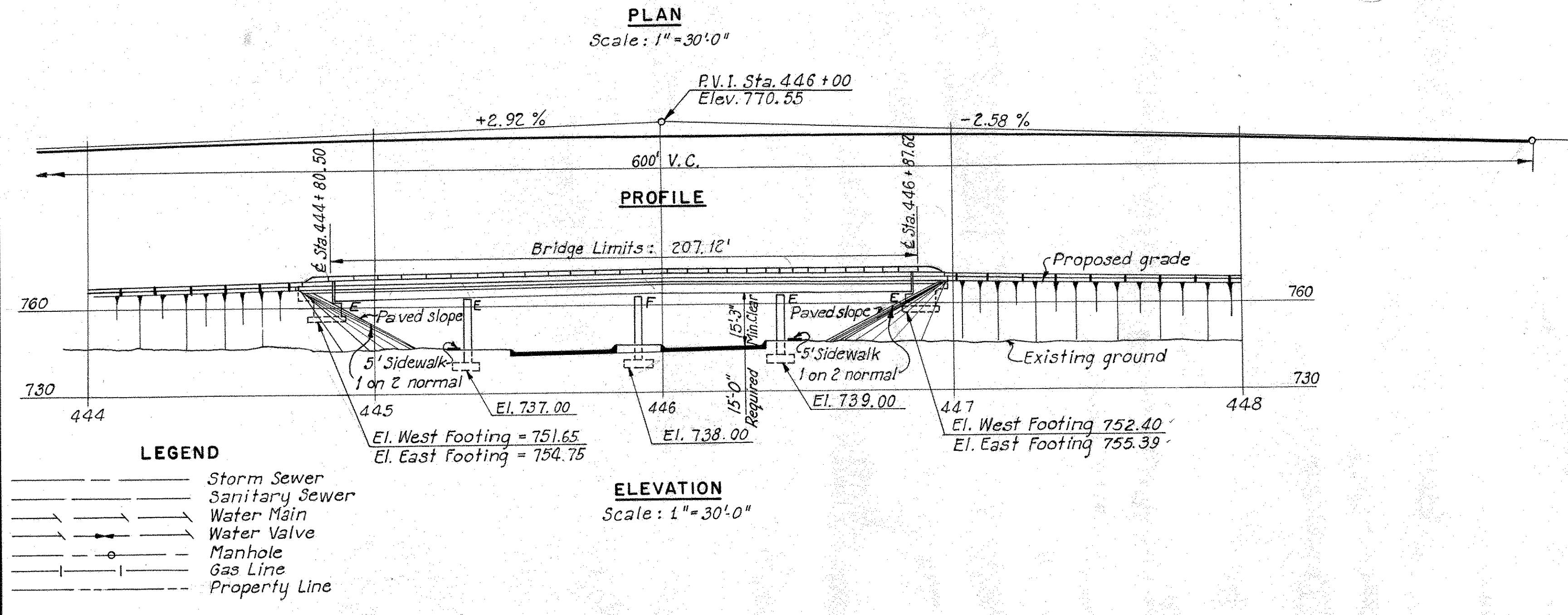
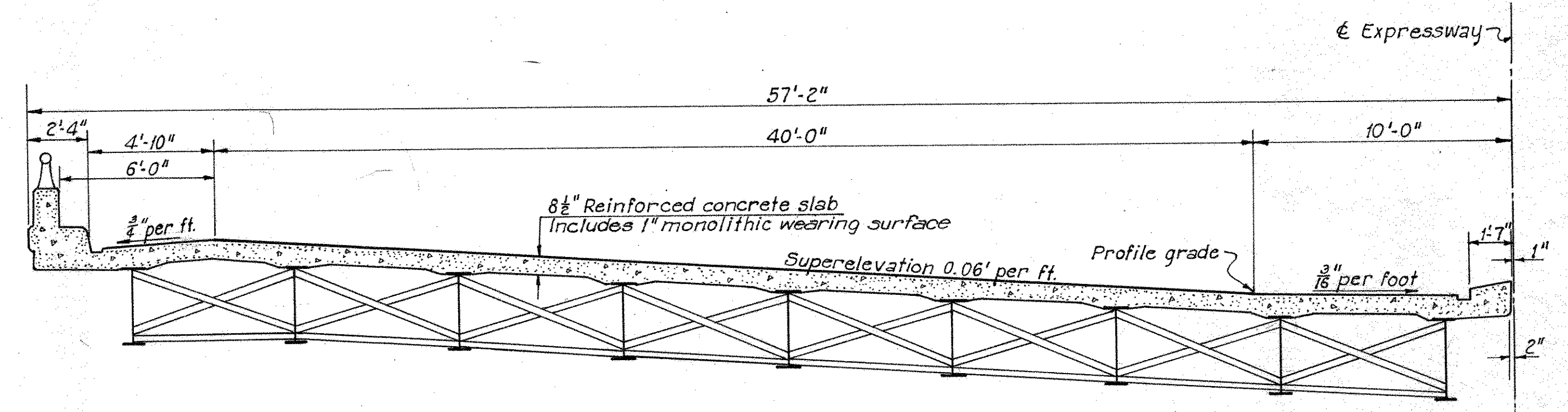
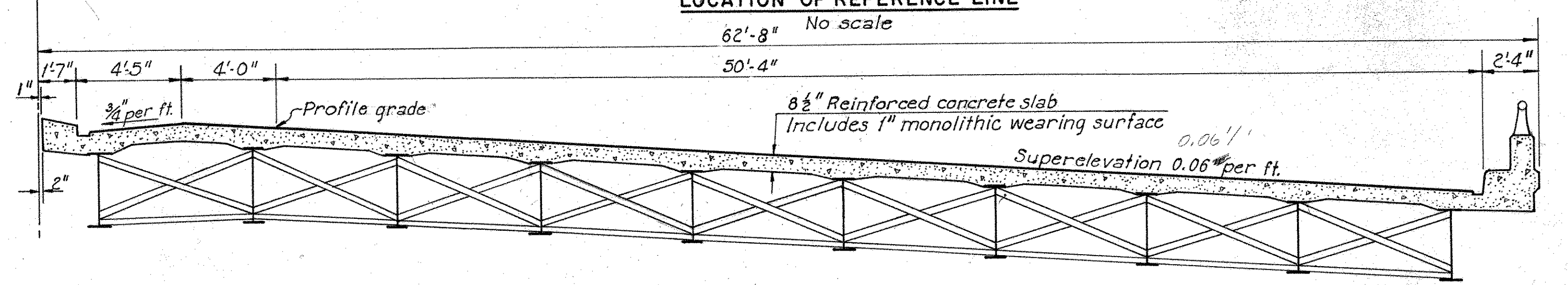
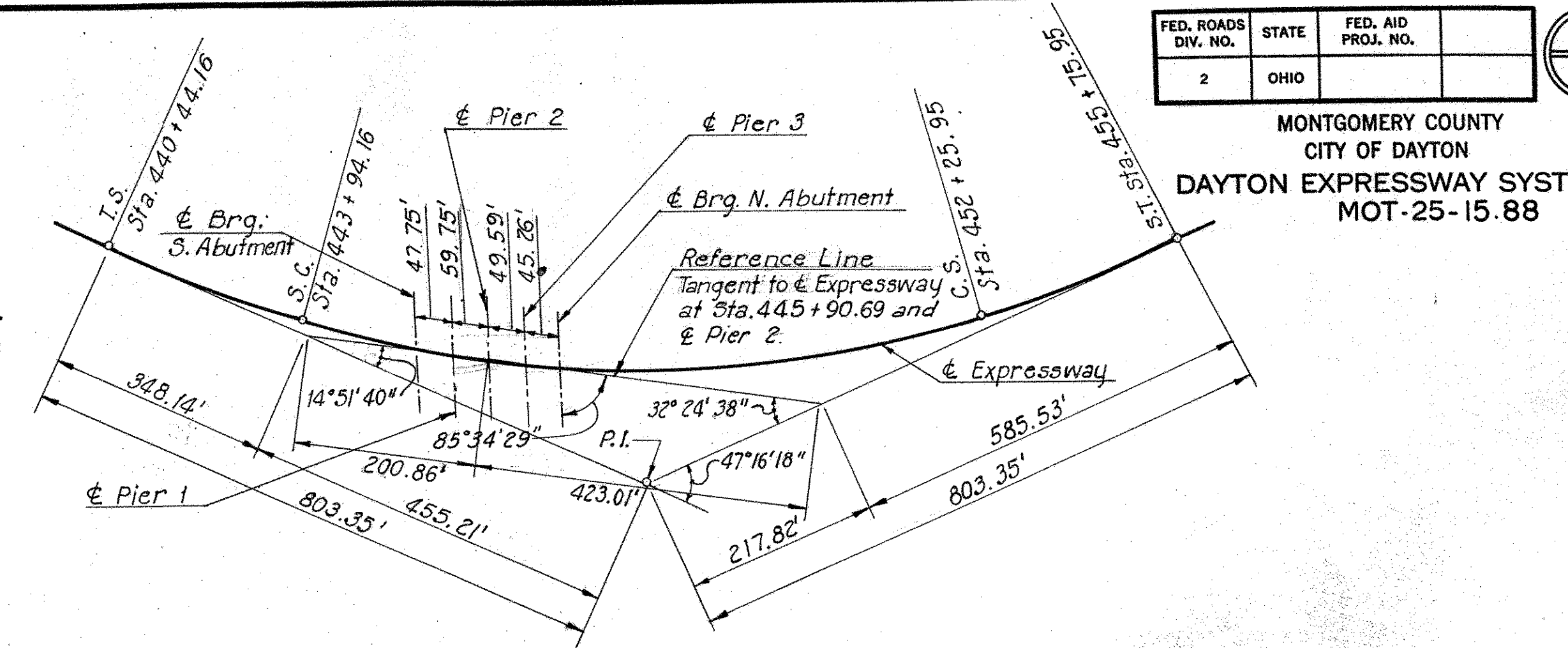
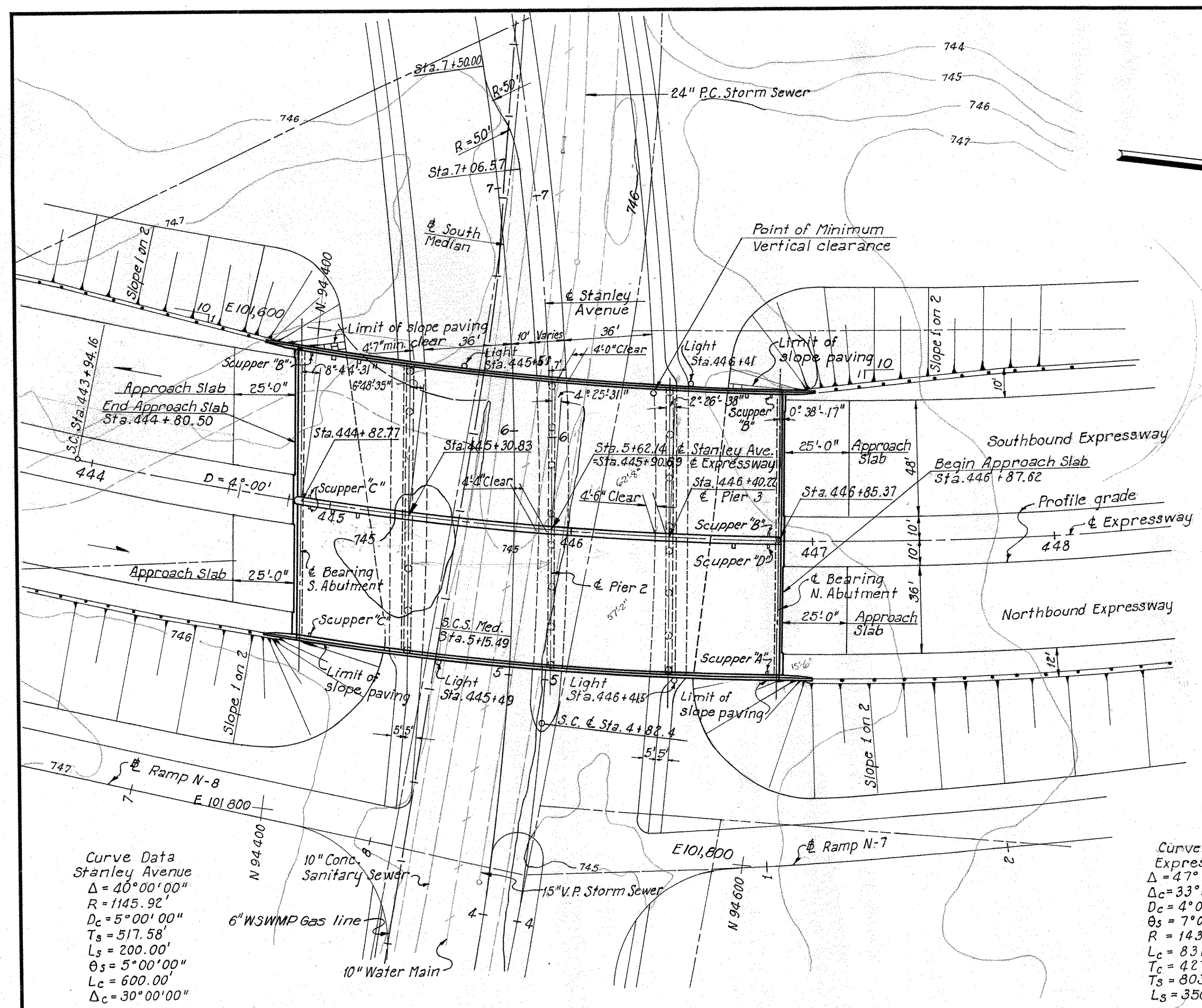
ENGINEER

STAMMEN & BERGENDOFF
ENGINEERS
MELAND NEW YORK

H. G. SOURS
ASSOCIATE
COLUMBUS



MONTGOMERY COUNTY
CITY OF DAYTON
DAYTON EXPRESSWAY SYSTEM
MOT-25-15.88



PROPOSED STRUCTURE

Type: four span continuous rolled beam bridges with reinforced concrete deck and substructure.

Spans: 48'; 60'; 50'; 45'

Roadways:
Southbound Expressway-58'-9" Roadway with 1'-0" curb.
Northbound Expressway-53'-3" Roadway with 1'-0" curb.

Loading: CF 2000(SI) adequate for AASHTO alternate loading.

Skew: 4°-25'-31" (RF)

Surface: One inch monolithic concrete wearing surface

Approach Slabs: A.S.-1-54 (25' long)

Alignment: 4° curve

Superelevation: 0.06/ft.

Note:
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 the Division Office but the State assumes no responsibility for the accuracy thereof.

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY CLEVELAND NEW YORK

SITE PLAN

EXPRESSWAY OVER STANLEY AVENUE

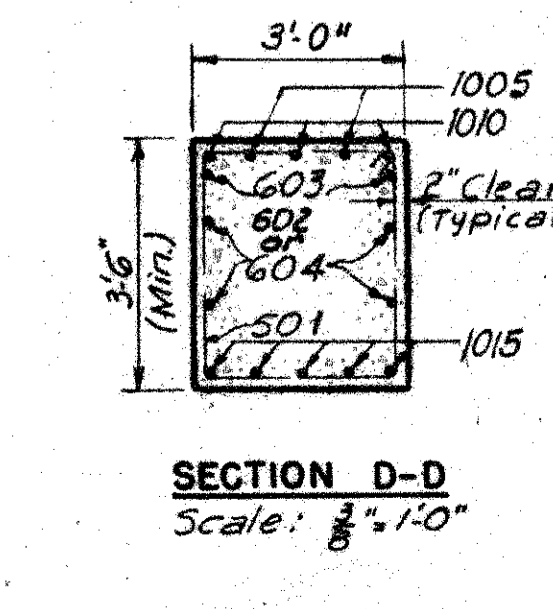
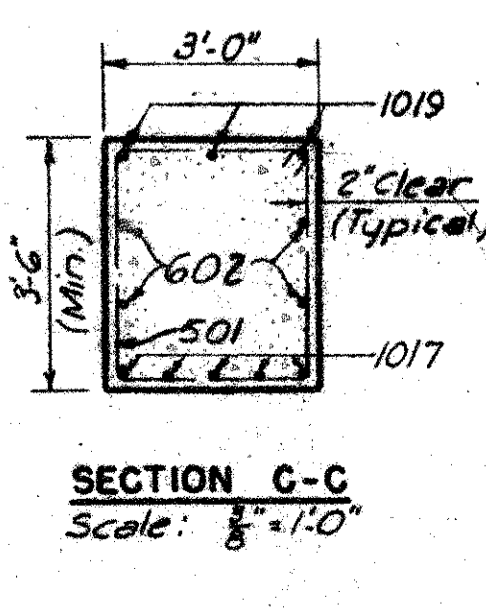
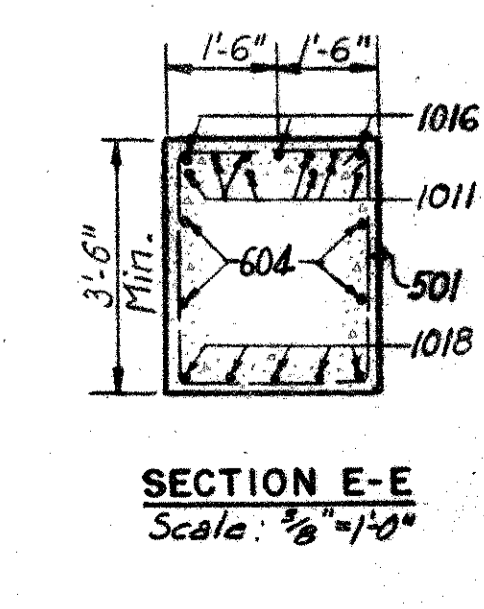
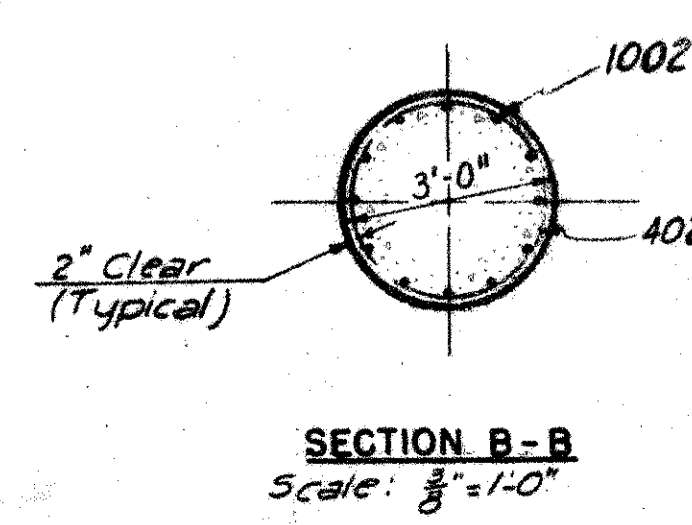
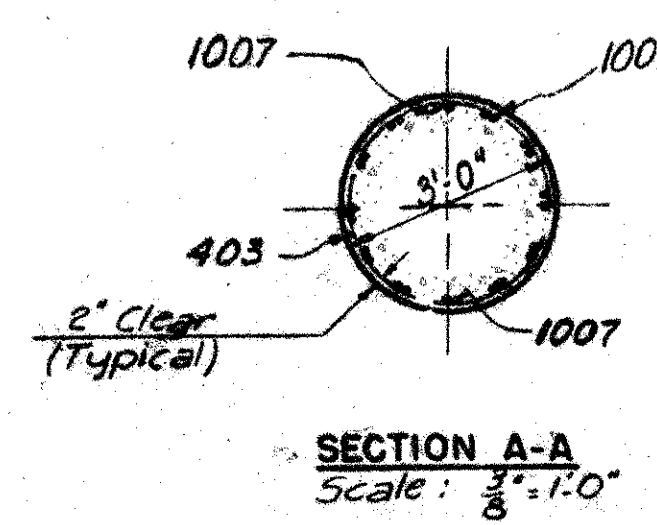
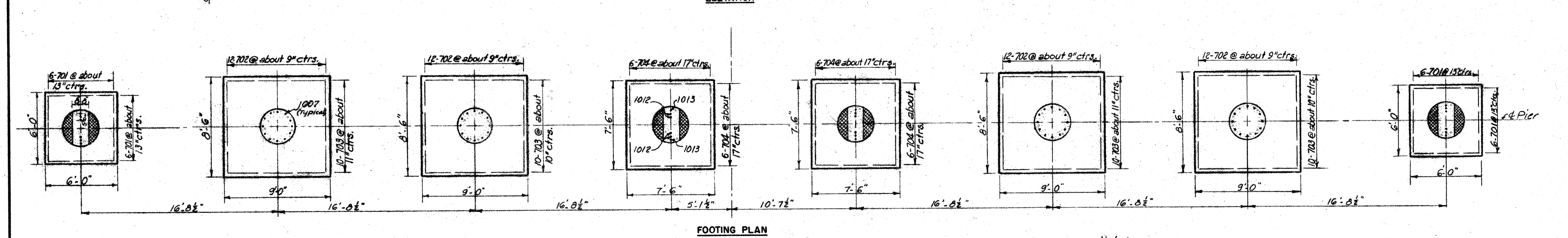
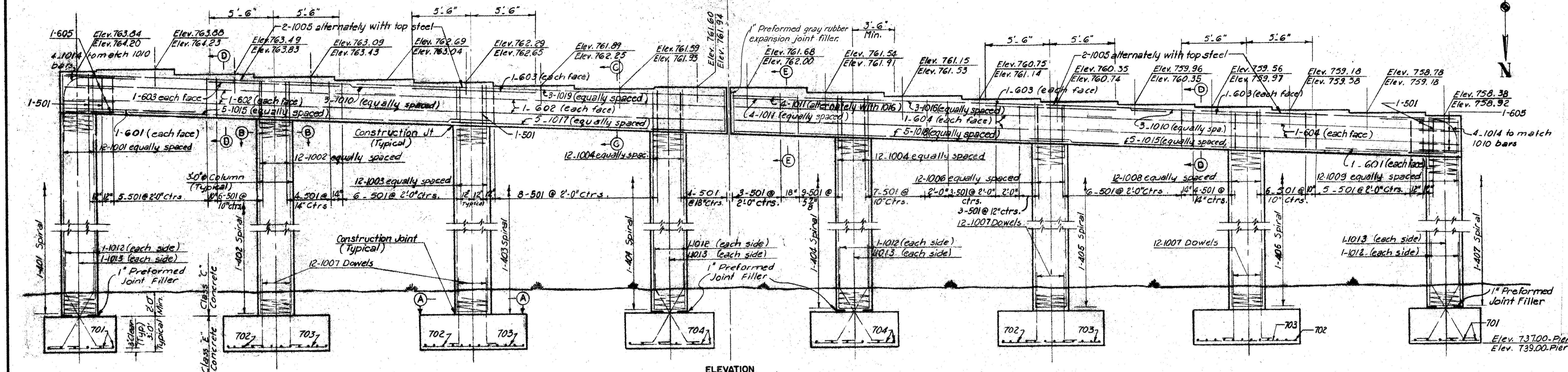
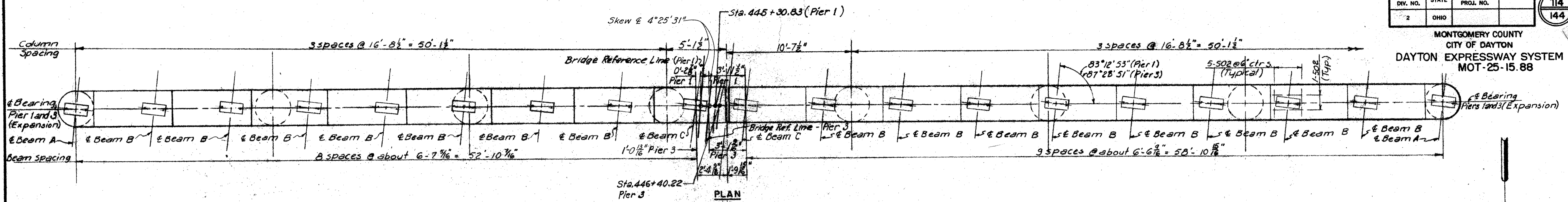
BR. NO. MOT-25-1652 STA. 444 + 80.50
SCALE: 446 + 87.62

DAYTON EXPRESSWAY SYSTEM
DAYTON, MONTGOMERY COUNTY, OH

DRAWN GJB	TRACED AH	CHECKED RFL	REVIEWED	REVISED
DATE 1-7-57	DATE 9-3-57	DATE 10-26-57	DATE G.A.	DATE 10-26-57

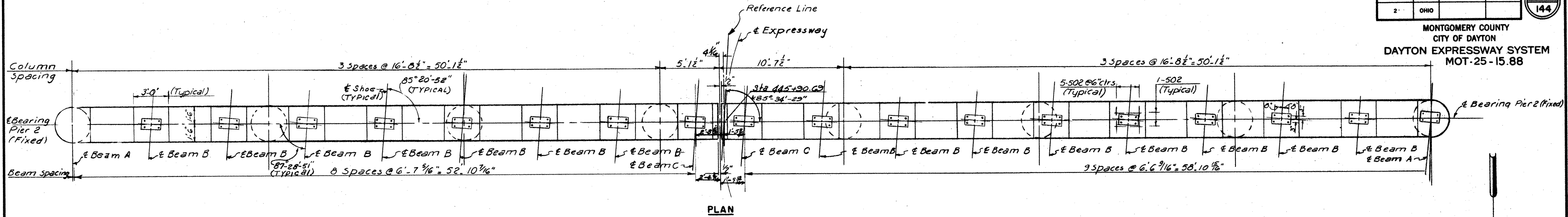
944 SHEET 113

MONTGOMERY COUNTY
CITY OF DAYTON
DAYTON EXPRESSWAY SYSTEM
MOT-25-15.88

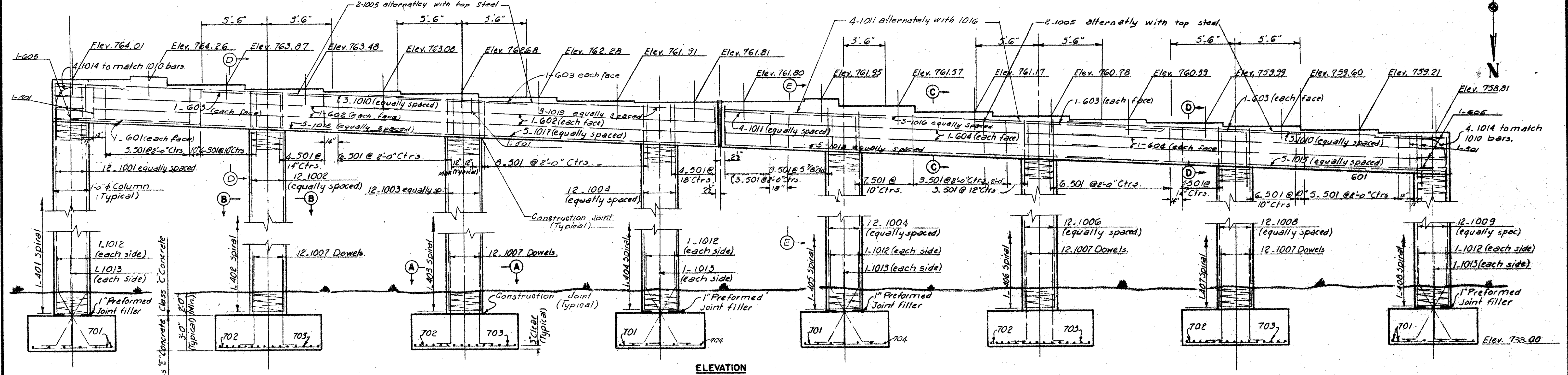


Note:
Elevations above the line are for Pier 1; those below the line are for Pier 3.
Maximum footing pressure = 4.55 Tons per sq. ft.

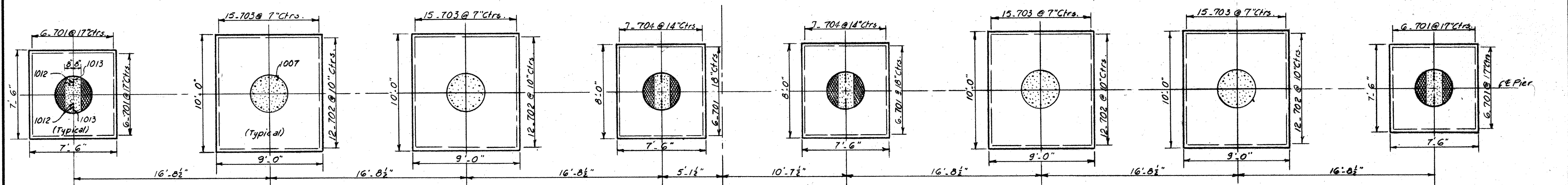
HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS KANSAS CITY CLEVELAND NEW YORK			
PIER 1 AND 3			
EXPRESSWAY OVER STANLEY AVENUE			
BR. NO. MOT-25-1652	STA. 444+80.50		
SCALE: 1/4"=1'-0" except as noted	446+87.62		
DAYTON EXPRESSWAY SYSTEM			
DAYTON, OHIO		MONTGOMERY COUNTY, OHIO	
DRAWN BY	TRACED	CHECKED BY	REVIEWED
DATE	DATE	DATE	DATE
15.57	15.57	15.57	15.57
			944 SHEET 114



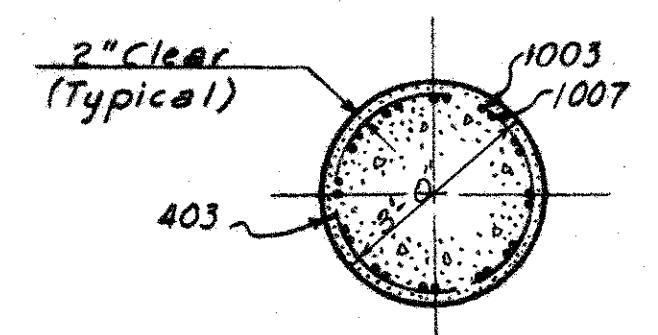
PLAN



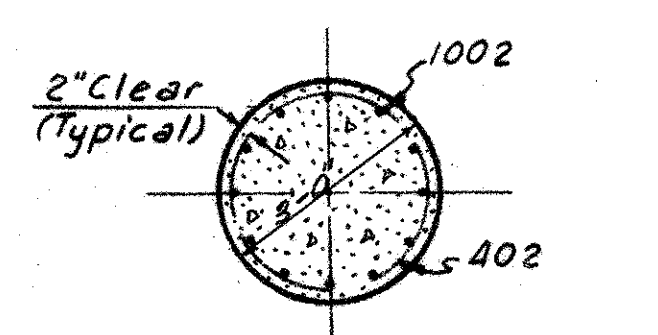
ELEVATION



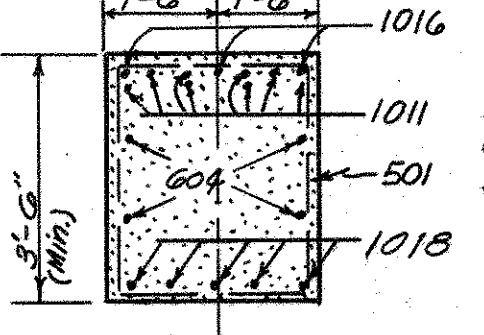
FOOTING PLAN



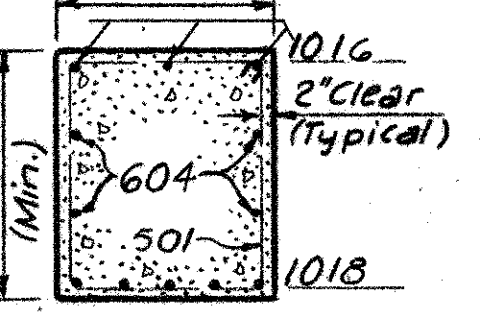
SECTION A-A
Scale: 3/8" = 1'-0"



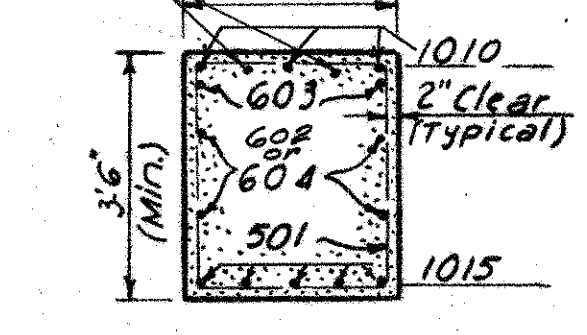
SECTION B-B
Scale: 3/8" = 1'-0"



SECTION E-E
Scale: 3/8" = 1'-0"



SECTION G-G
Scale: 3/8" = 1'-0"



SECTION D-D
Scale: 3/8" = 1'-0"

NOTE:
Maximum footing pressure
4.55 tons per square foot.

HOWARD, NEEDLES, TAMMEN & BERGENOFF
CONSULTING ENGINEERS
KANSAS CITY CLEVELAND NEW YORK

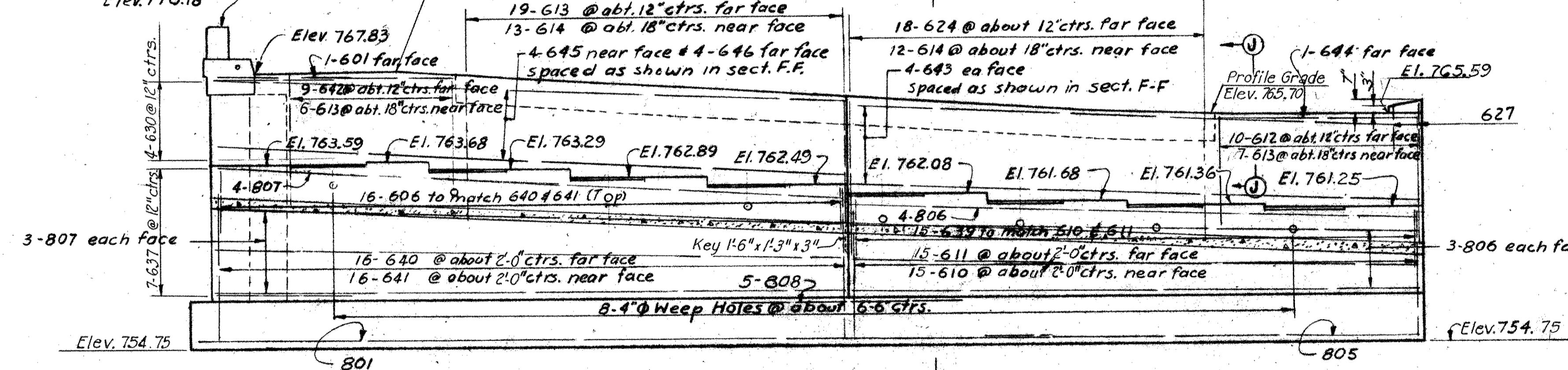
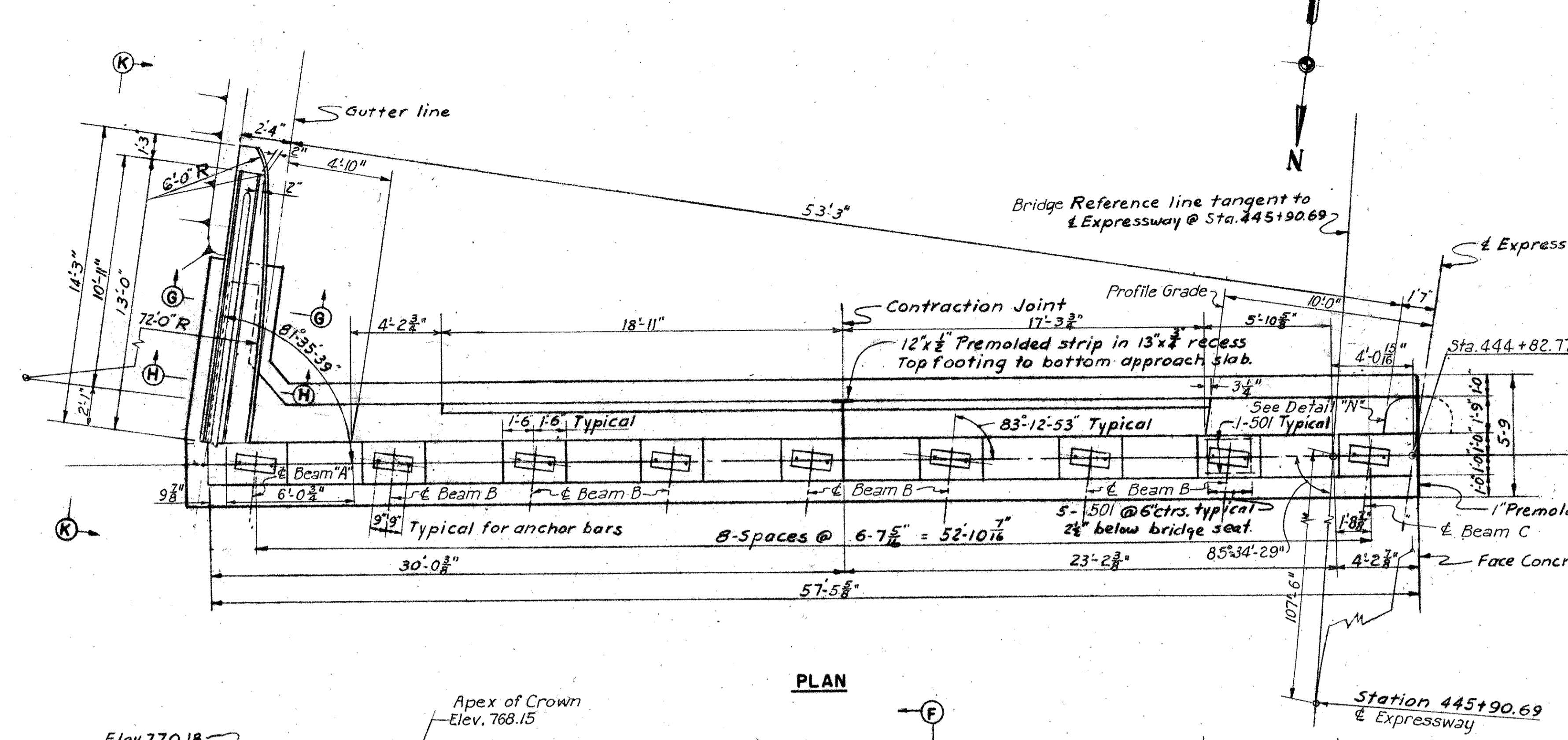
PIER 2
EXPRESSWAY OVER STANLEY AVENUE
BR. NO. MOT-25-1652 STA. 444 + 80.50
SCALE: 1/4" = 1'-0" Except as noted 446 + 87.62

DAYTON EXPRESSWAY SYSTEM
DAYTON, MONTGOMERY COUNTY, OHIO

DRAWN BY	TRACED	CHECKED BY	REVIEWED	REVISED
DATE 8/20/57	DATE	DATE 8/26/57	DATE	DATE 12-26-57

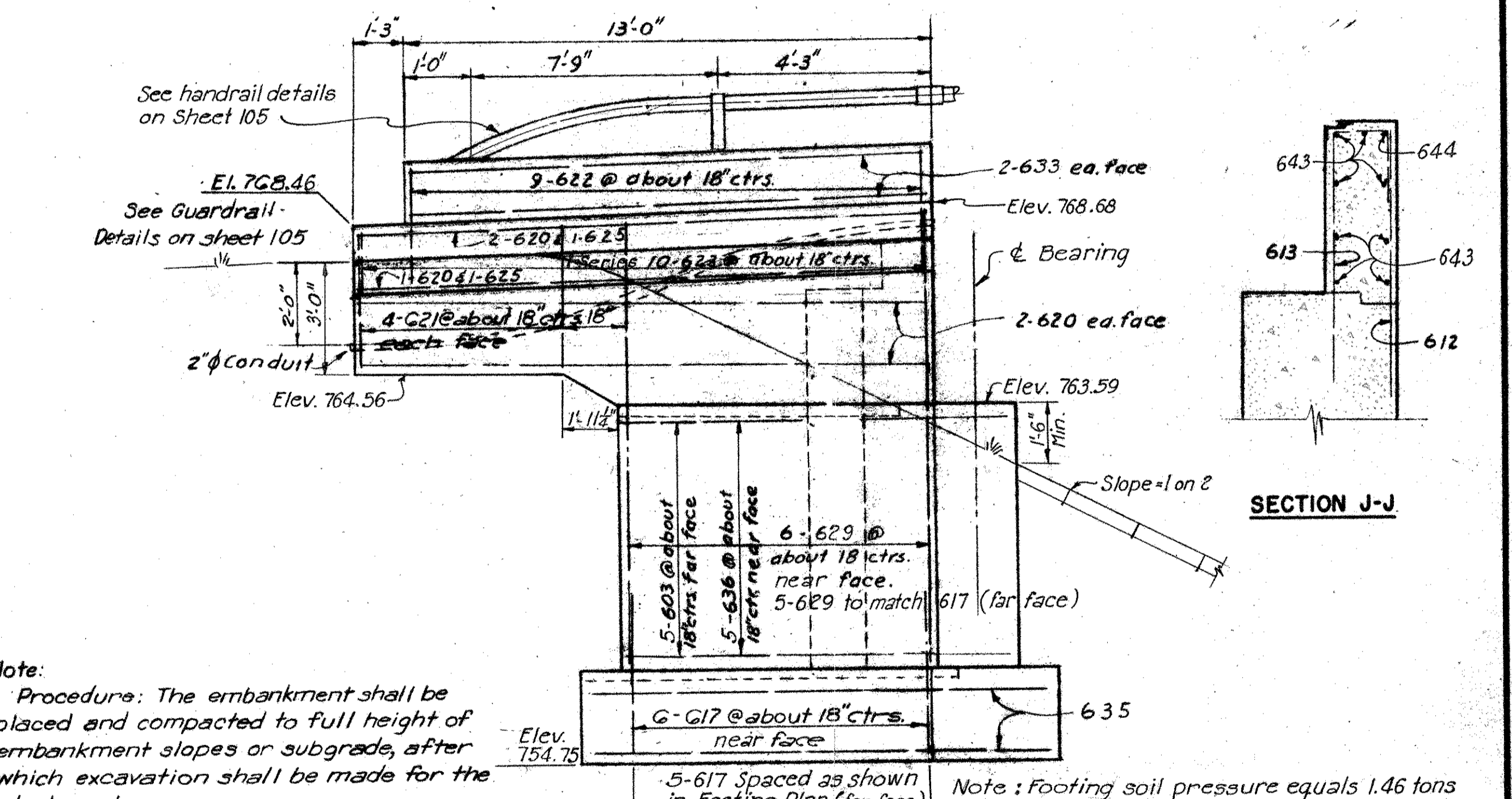
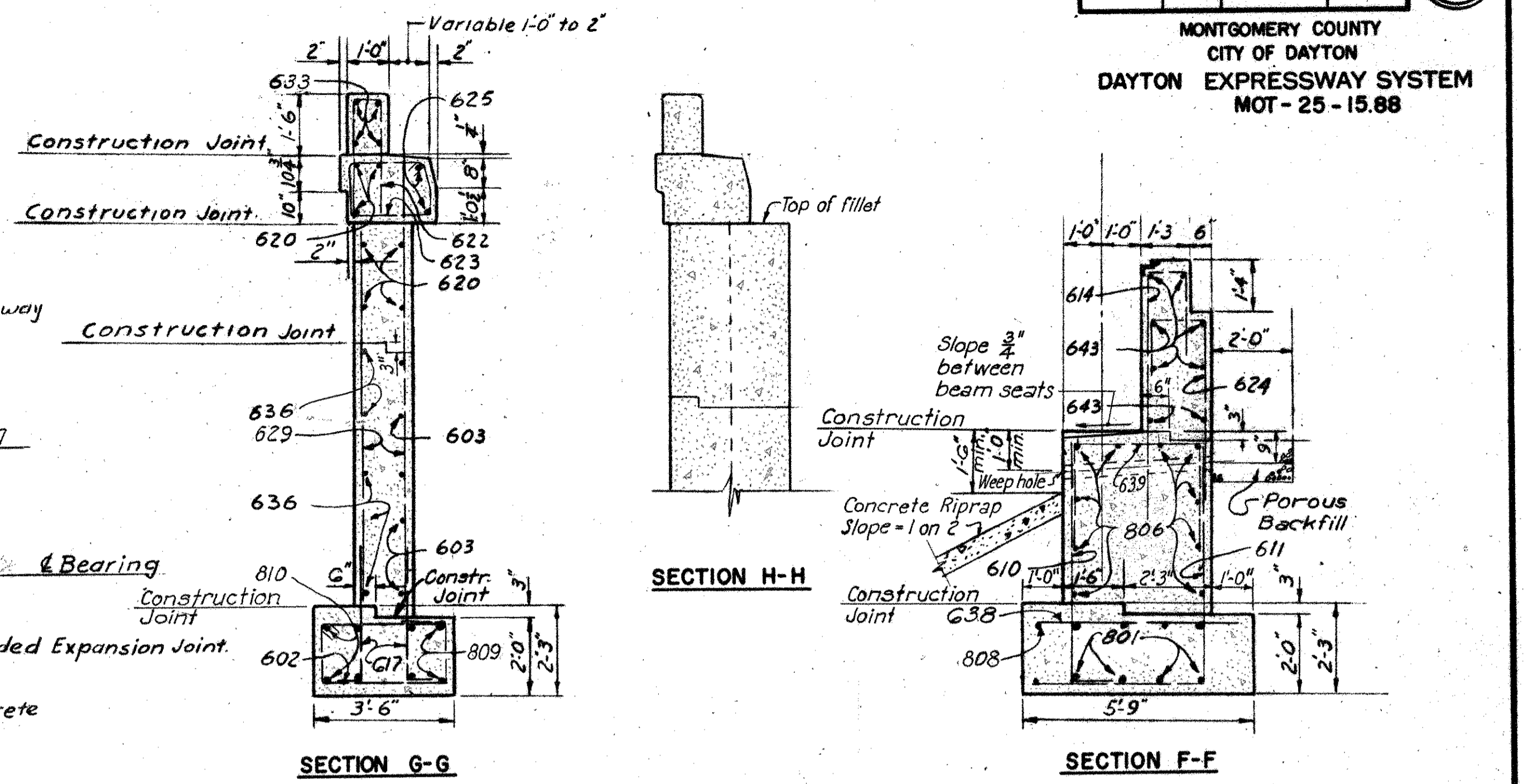
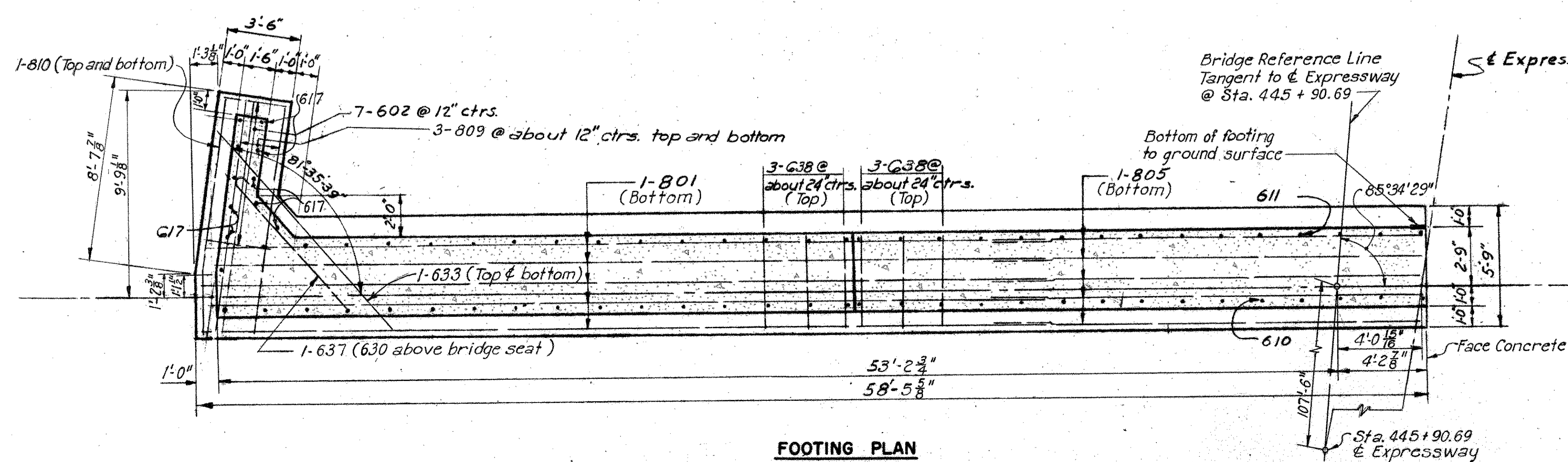
944 SHEET 115

MONTGOMERY COUNTY
CITY OF DAYTON
DAYTON EXPRESSWAY SYSTEM
MOT-25-15.88



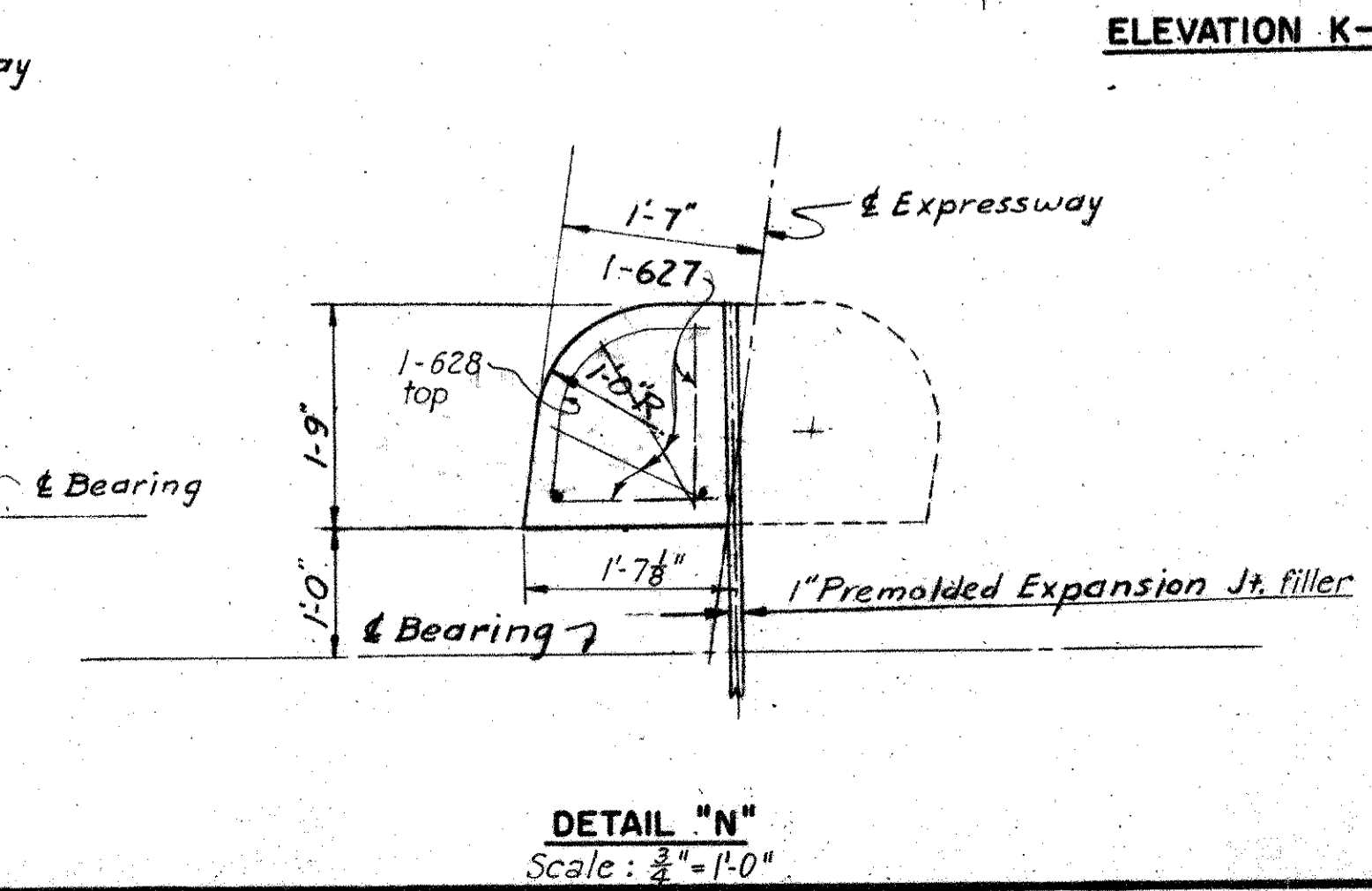
Note:
Care shall be taken in spacing weepholes to clear area for placing anchor bars for bearing plates.

Elevations are given at the front face of the backwall.



Note: Footing soil pressure equals 1.46 tons per sq. ft.
For porous backfill and weepholes see common details Sheet 104.
For reinforcing steel schedule see sheet 123.
For expansion joint details see common details.
For details of slope paving see common details Sheet 104.
For shoe details see sheet 105.

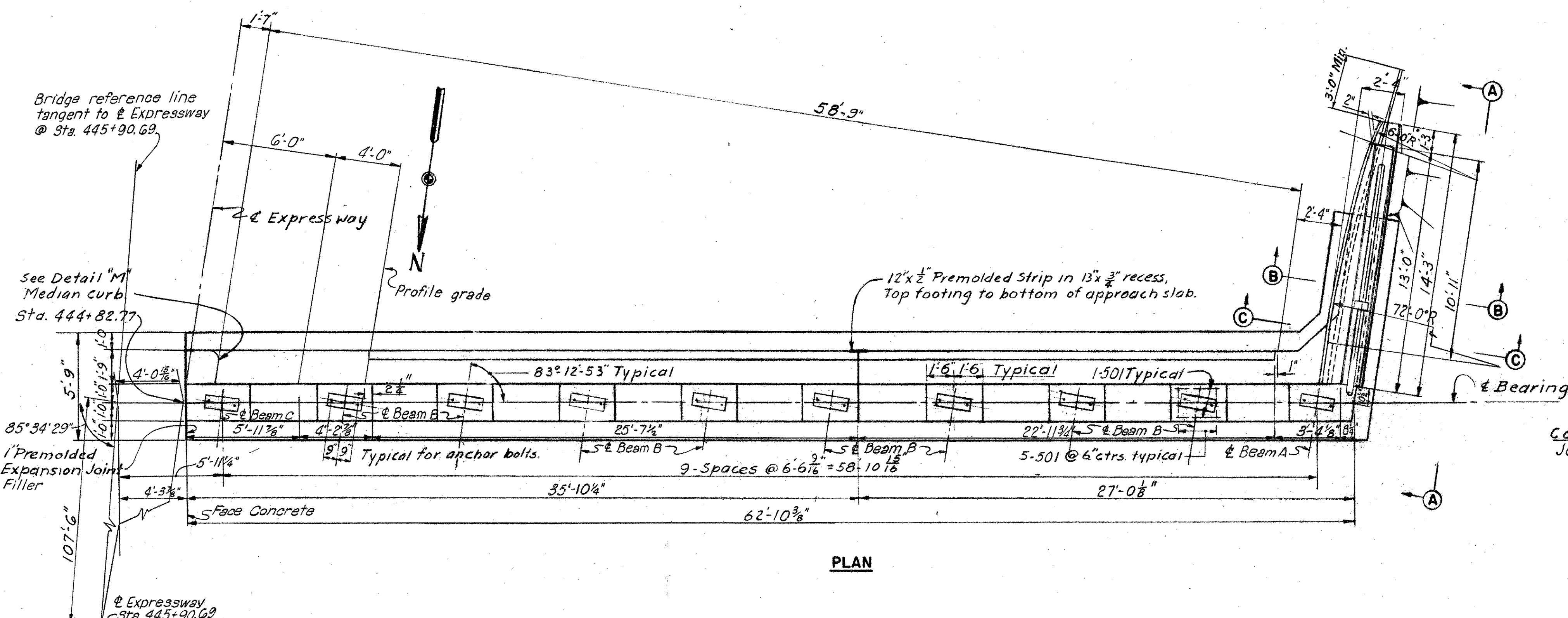
Note:
Procedure: The embankment shall be placed and compacted to full height of embankment slopes or subgrade, after which excavation shall be made for the abutment.



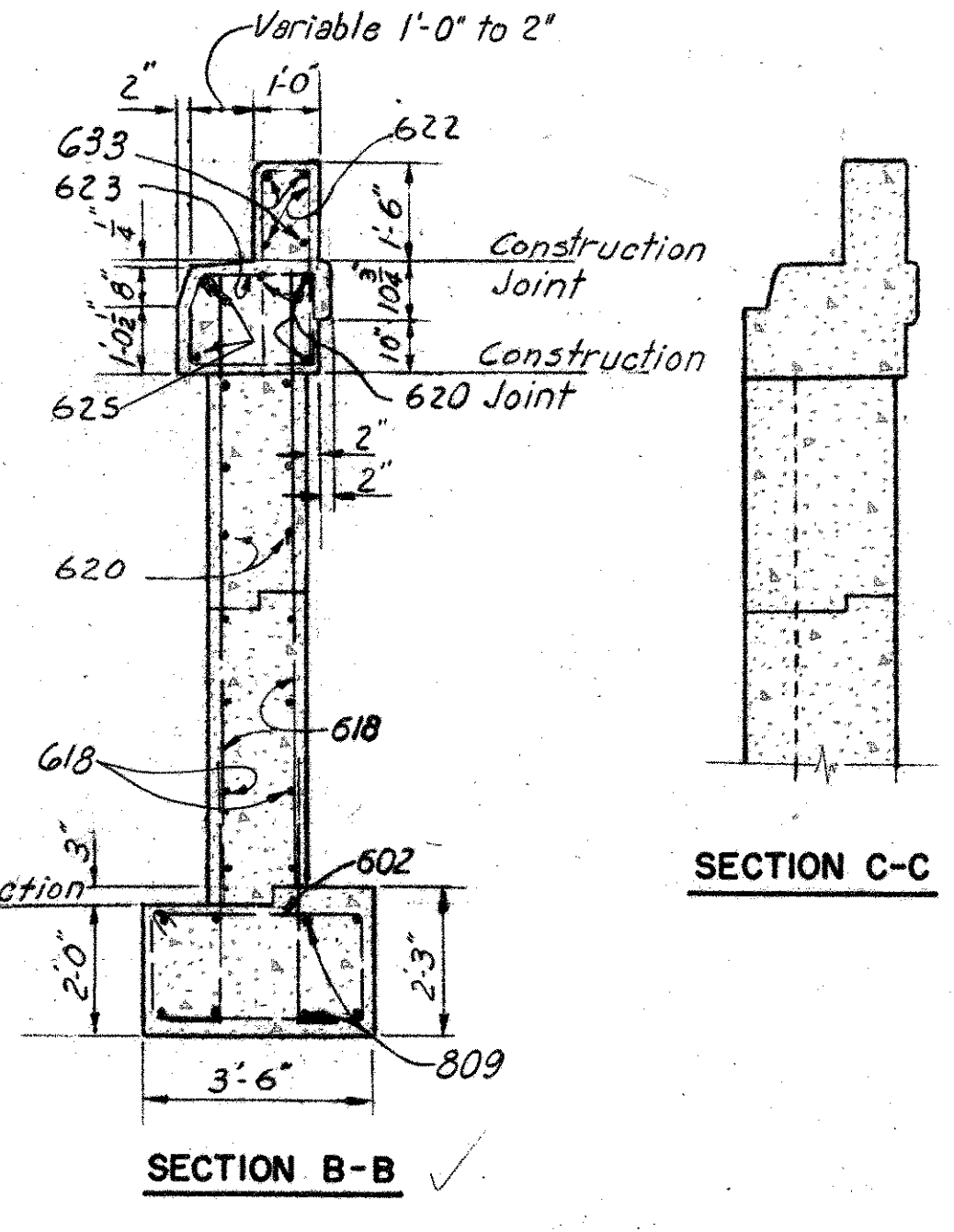
HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS KANSAS CITY CLEVELAND NEW YORK			
EAST HALF OF SOUTH ABUTMENT			
EXPRESSWAY OVER STANLEY AVENUE			
BR. NO. MOT-25-1652		STA 444 + 80.50	
SCALE: 3/4" = 1'-0" Except as shown		446 + 87.62	
DAYTON EXPRESSWAY SYSTEM DAYTON, MONTGOMERY COUNTY, OHIO			
DRAWN H.P.C.	TRACED	CHECKED J.J.A.	REVIEWED G.A.
DATE 10-4-57	DATE	DATE 11-27-57	DATE 11-27-57
			944 SHEET 116

FED. ROADS DIV. NO.	STATE	FED. AID PROJ. NO.	117 144
2	OHIO		

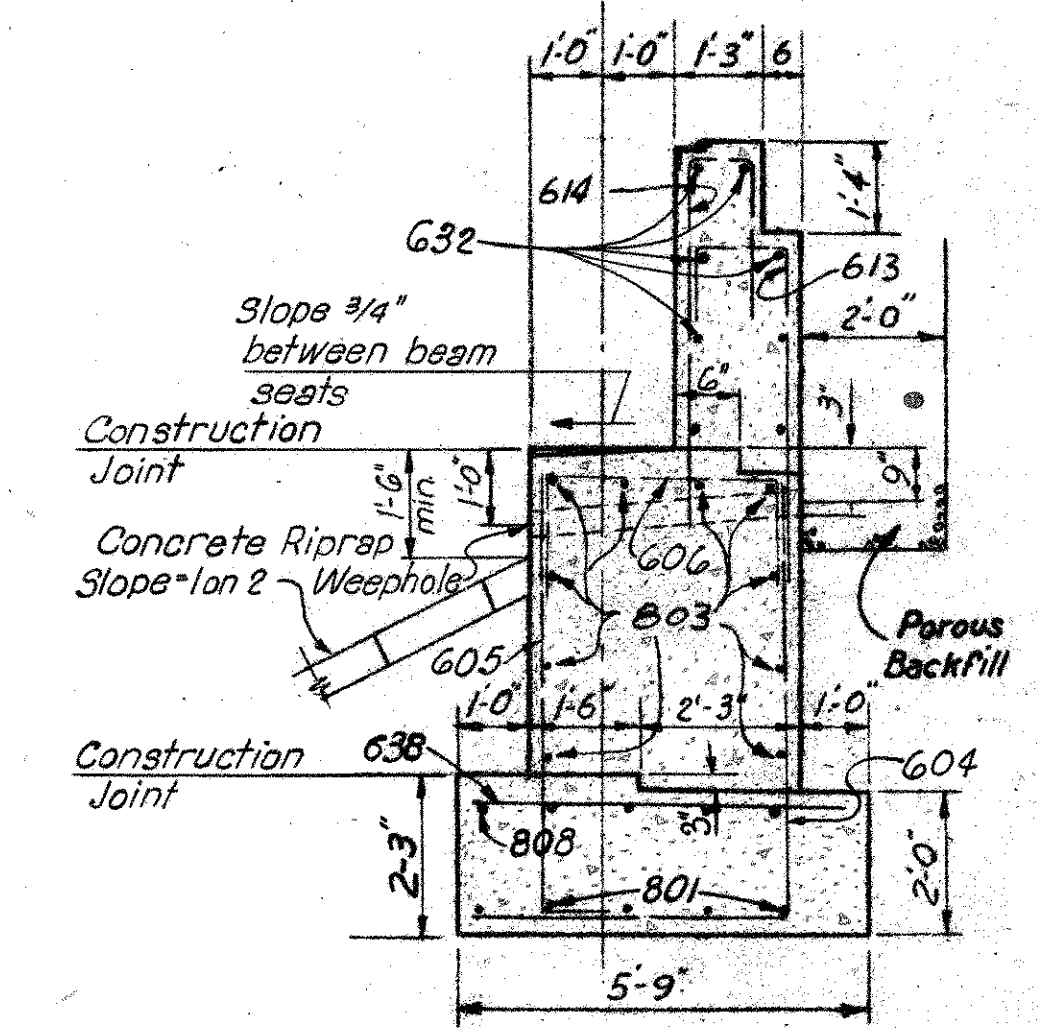
MONTGOMERY COUNTY
CITY OF DAYTON
DAYTON EXPRESSWAY SYSTEM
MOT-25-15.88



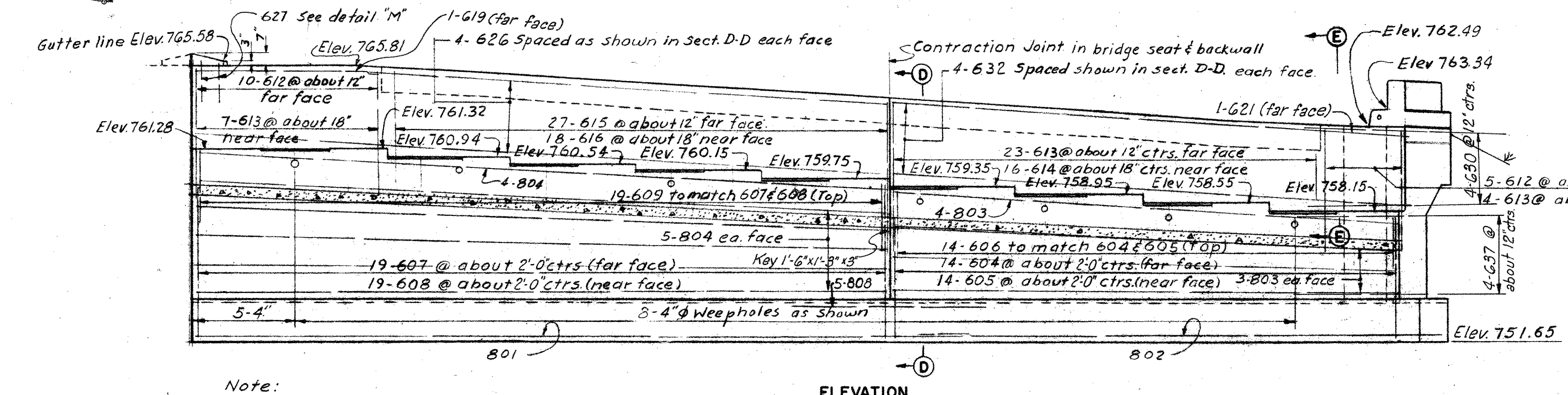
PLAN



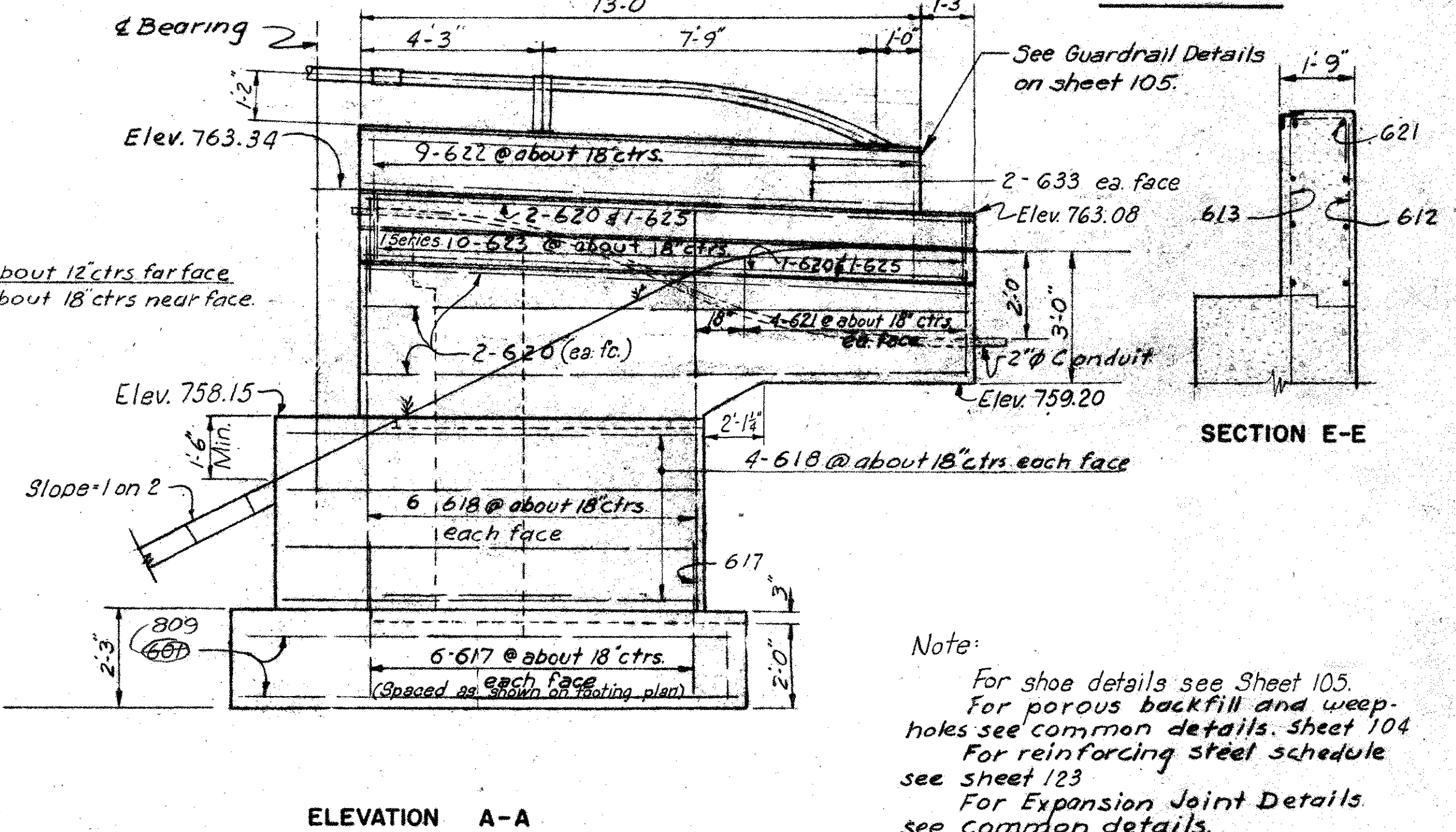
SECTION B-B



SECTION D-D

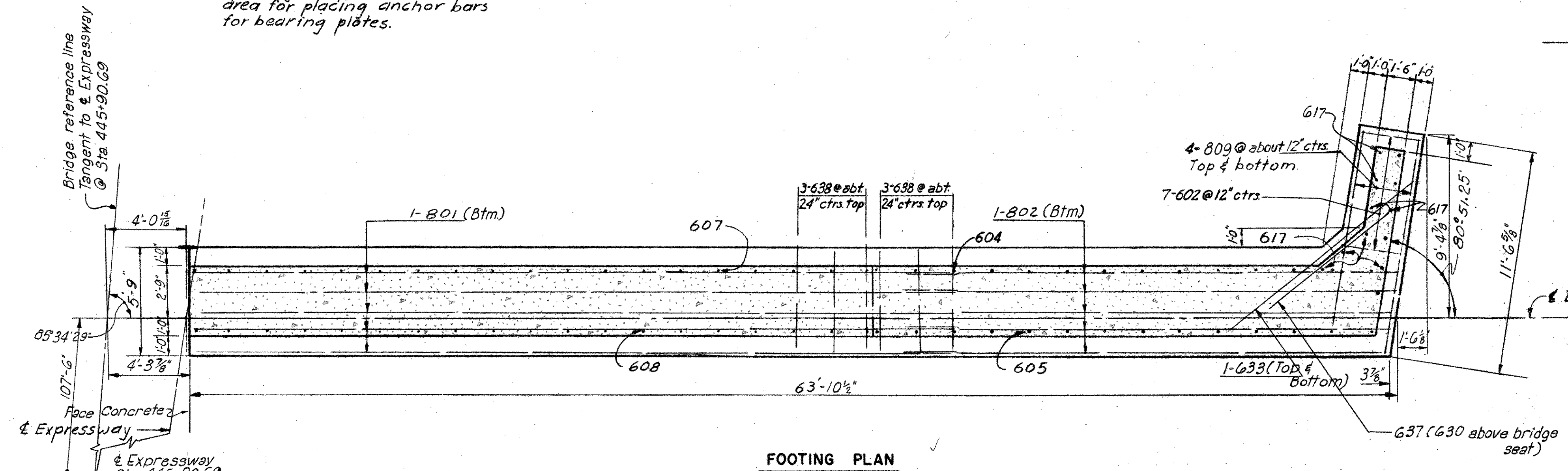


ELEVATION

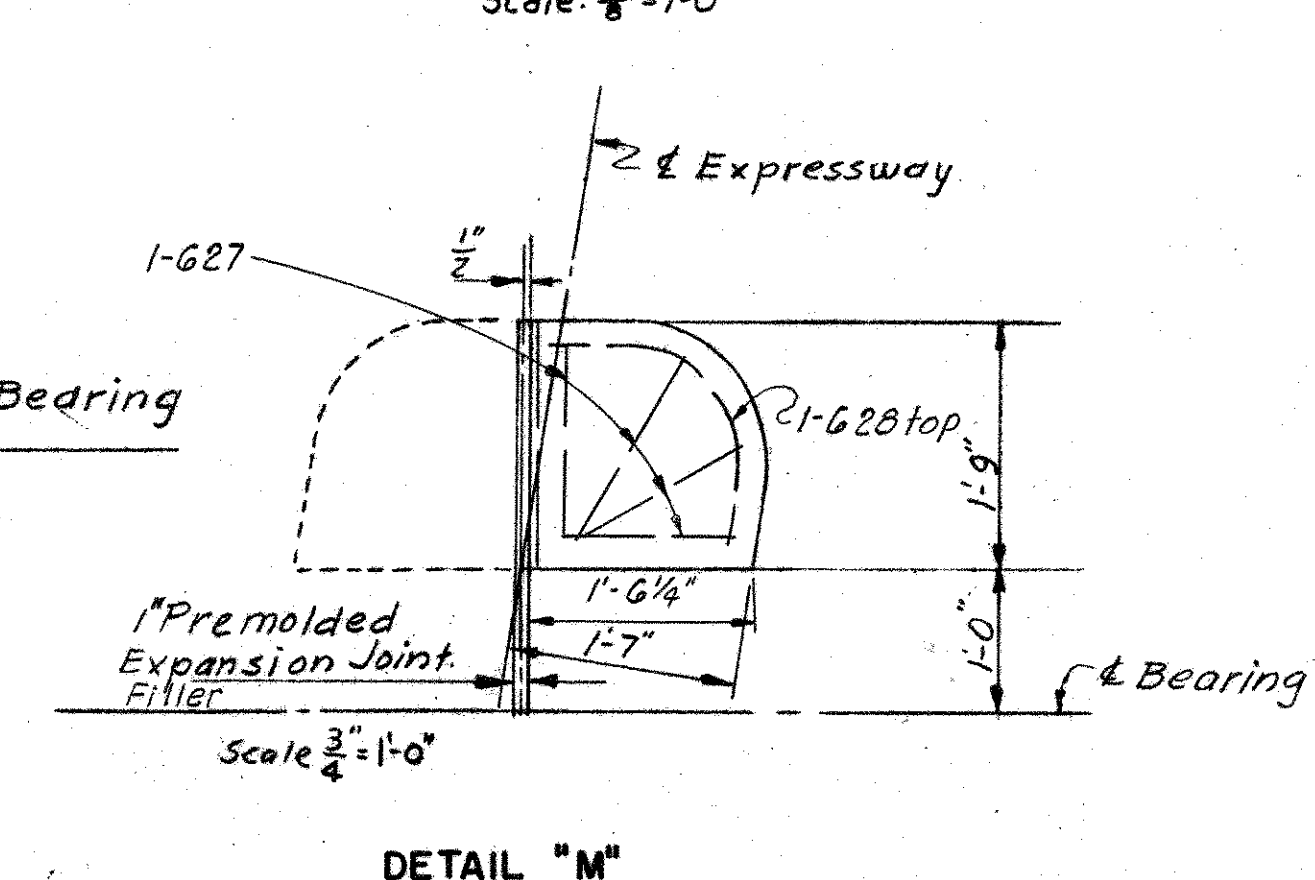


ELEVATION A-A

Note:
For shoe details see Sheet 105.
For porous backfill and weep-holes see common details, Sheet 104.
For reinforcing steel schedule see sheet 123.
For Expansion Joint Details see common details.
For details of slope paving see common details, Sheet 104.
Procedure: The embankment shall be placed and compacted to full height of embankment slopes or subgrade, after which excavation shall be made for the abutment.
Footings soil pressure = 1.4G Tons per sq. ft.



FOOTING PLAN



DETAIL "M"

HOWARD, NEEDLES, TAMMEN & BERGENOFF
CONSULTING ENGINEERS
KANSAS CITY CLEVELAND NEW YORK

WEST HALF OF SOUTH ABUTMENT

EXPRESSWAY OVER STANLEY AVENUE

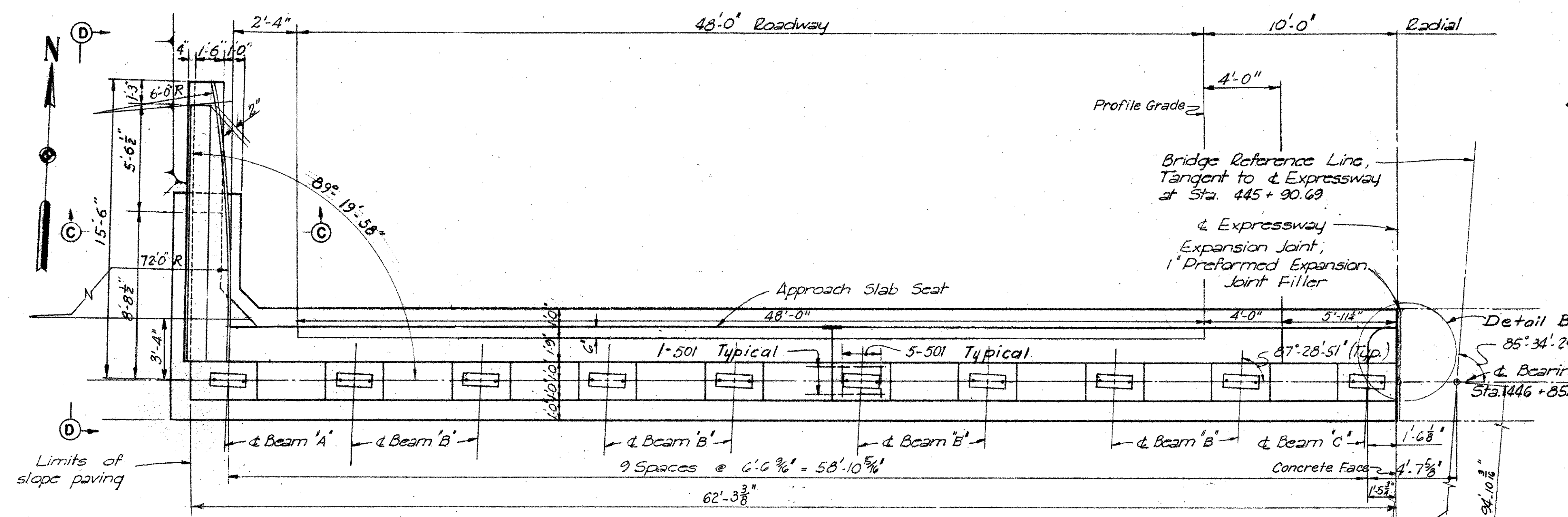
BR. NO. MOT-25-1652 STA. 444 + 80.50
SCALE: 1/4"=1'-0" Except as shown 446 + 87.62

DAYTON EXPRESSWAY SYSTEM

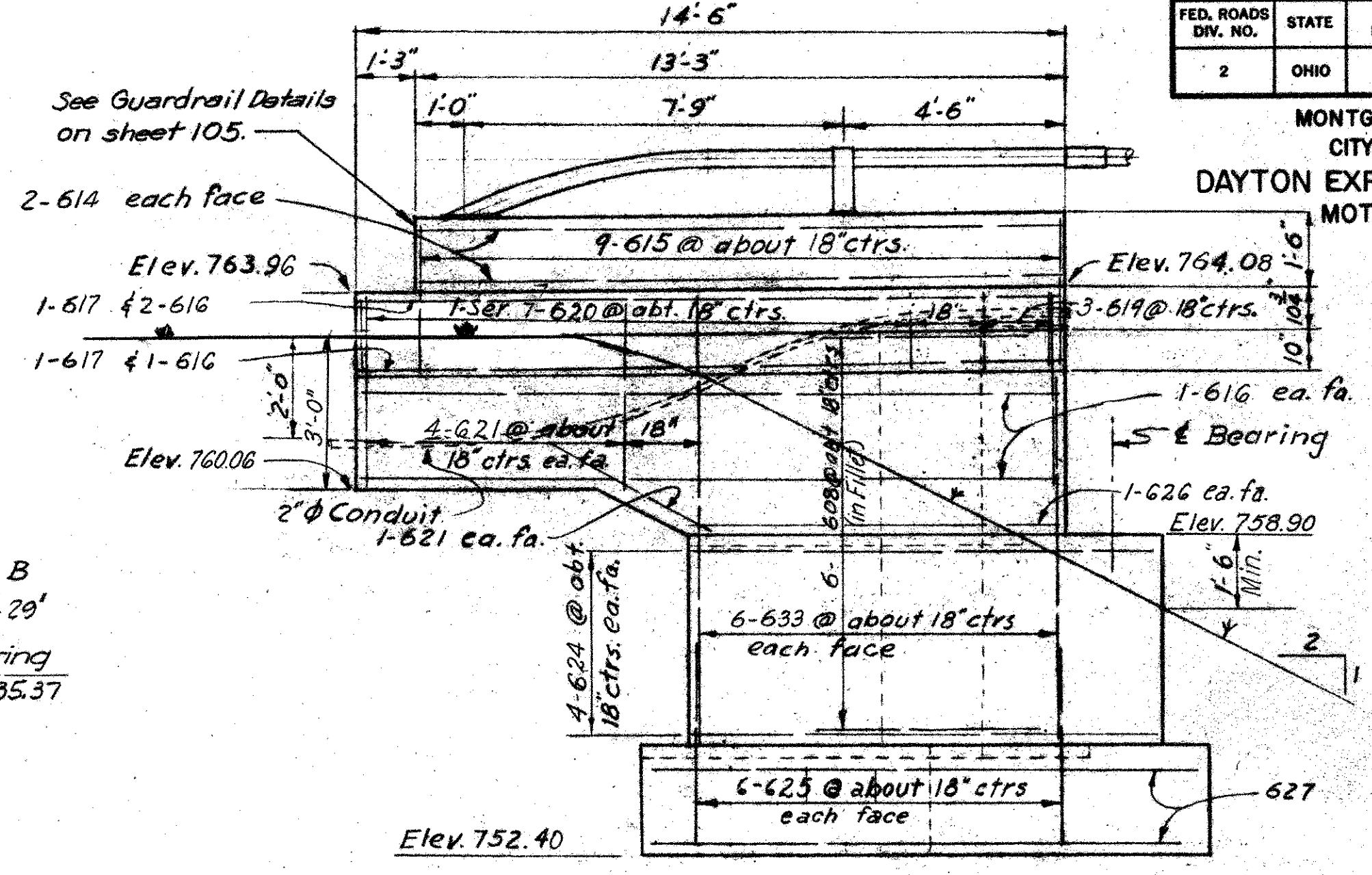
DAYTON, MONTGOMERY COUNTY, OHIO

DRAWN	H.F.C.	TRACED	CHECKED	DATE	REVISED	DATE
			J.M.N.	12-31-57	G.A.	12-31-57
DATE:						

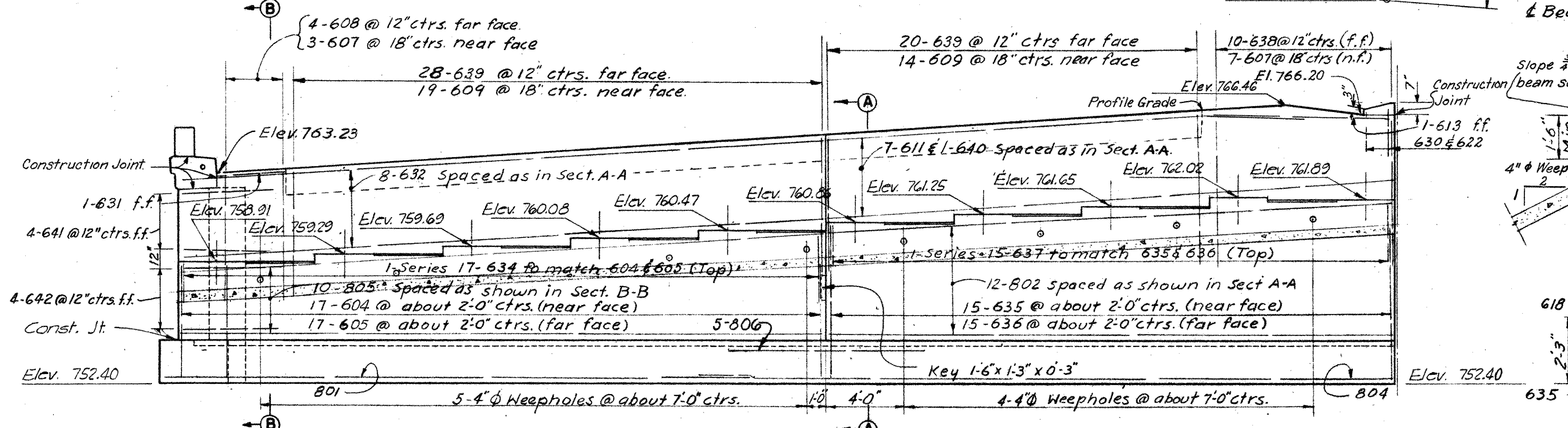
MONTGOMERY COUNTY
CITY OF DAYTON
DAYTON EXPRESSWAY SYSTEM
MOT-25-15.88



PLAN
Scale 1/4" = 1'-0"

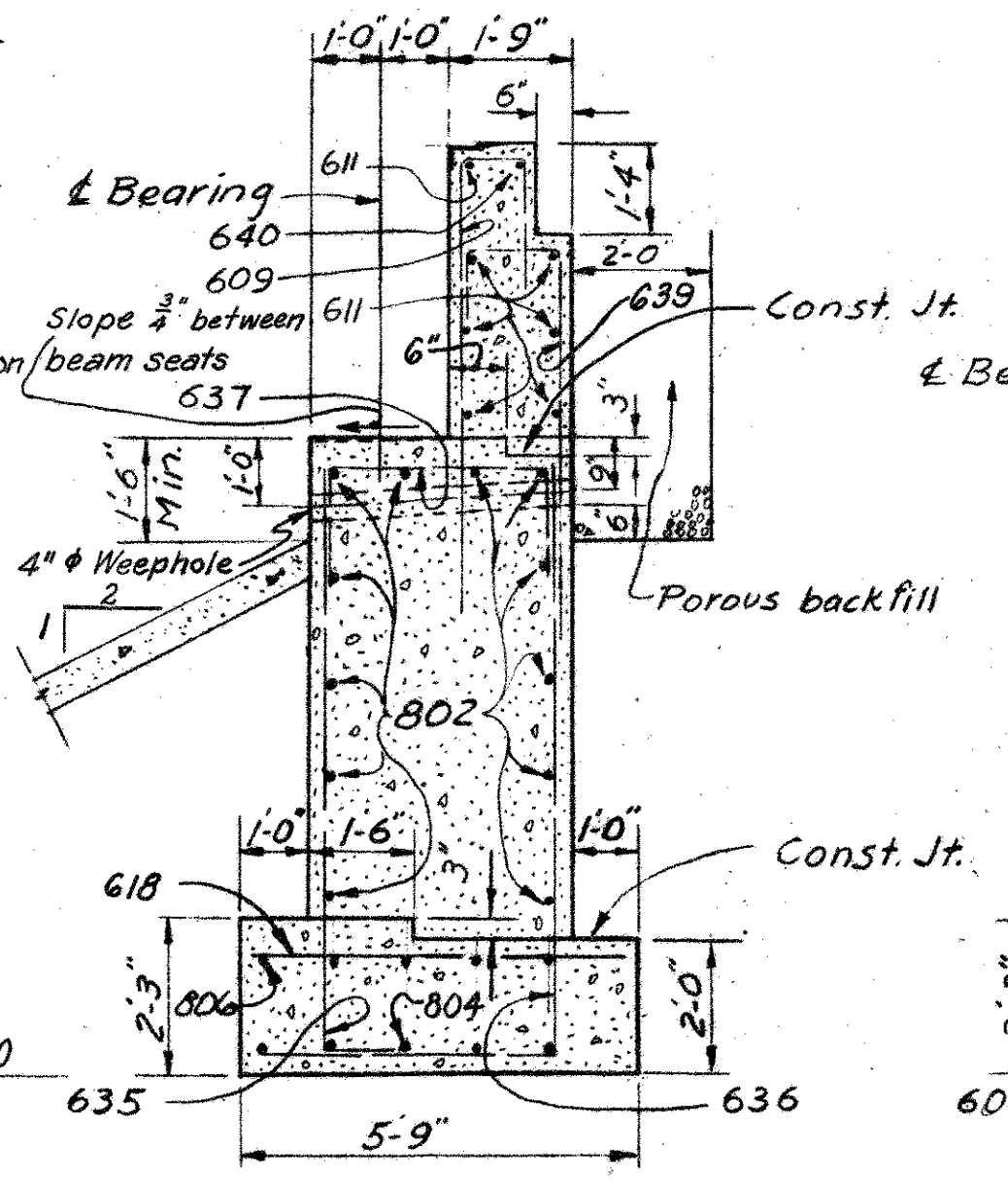


ELEVATION D-D
Scale 3/8" = 1'-0"

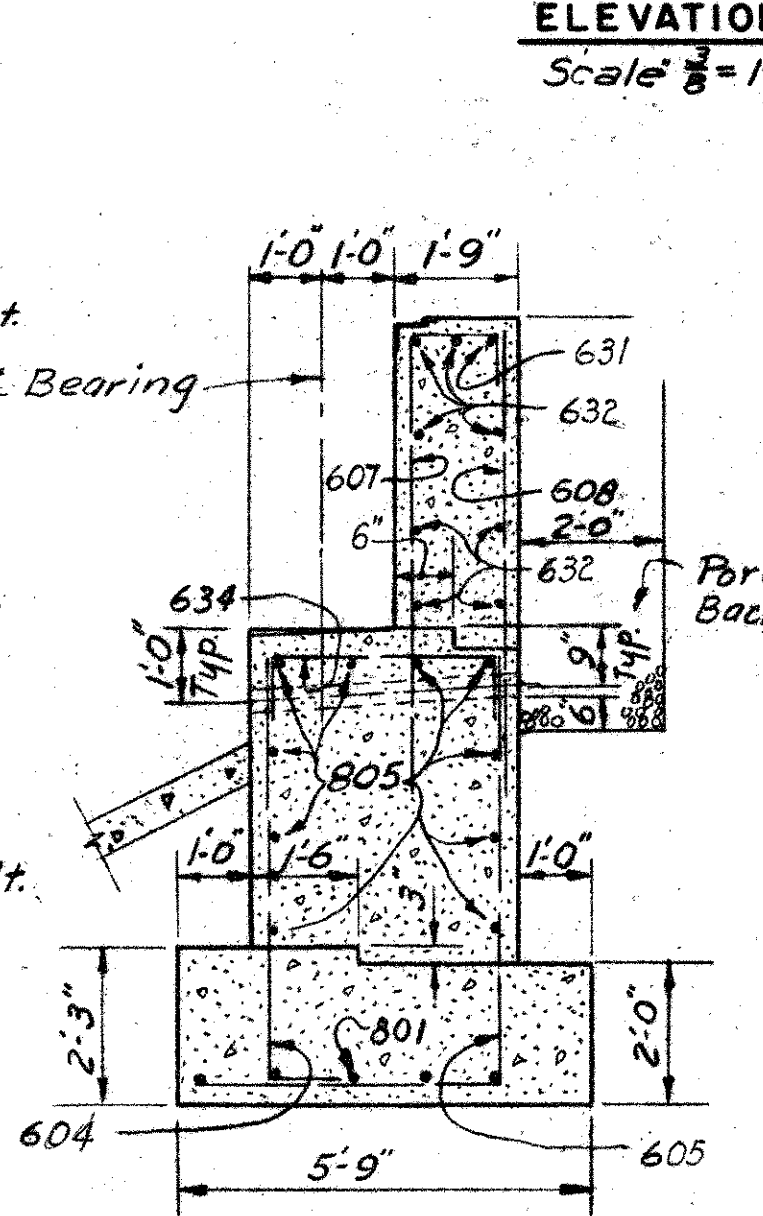


ELEVATION A-A
Scale 1/4" = 1'-0"

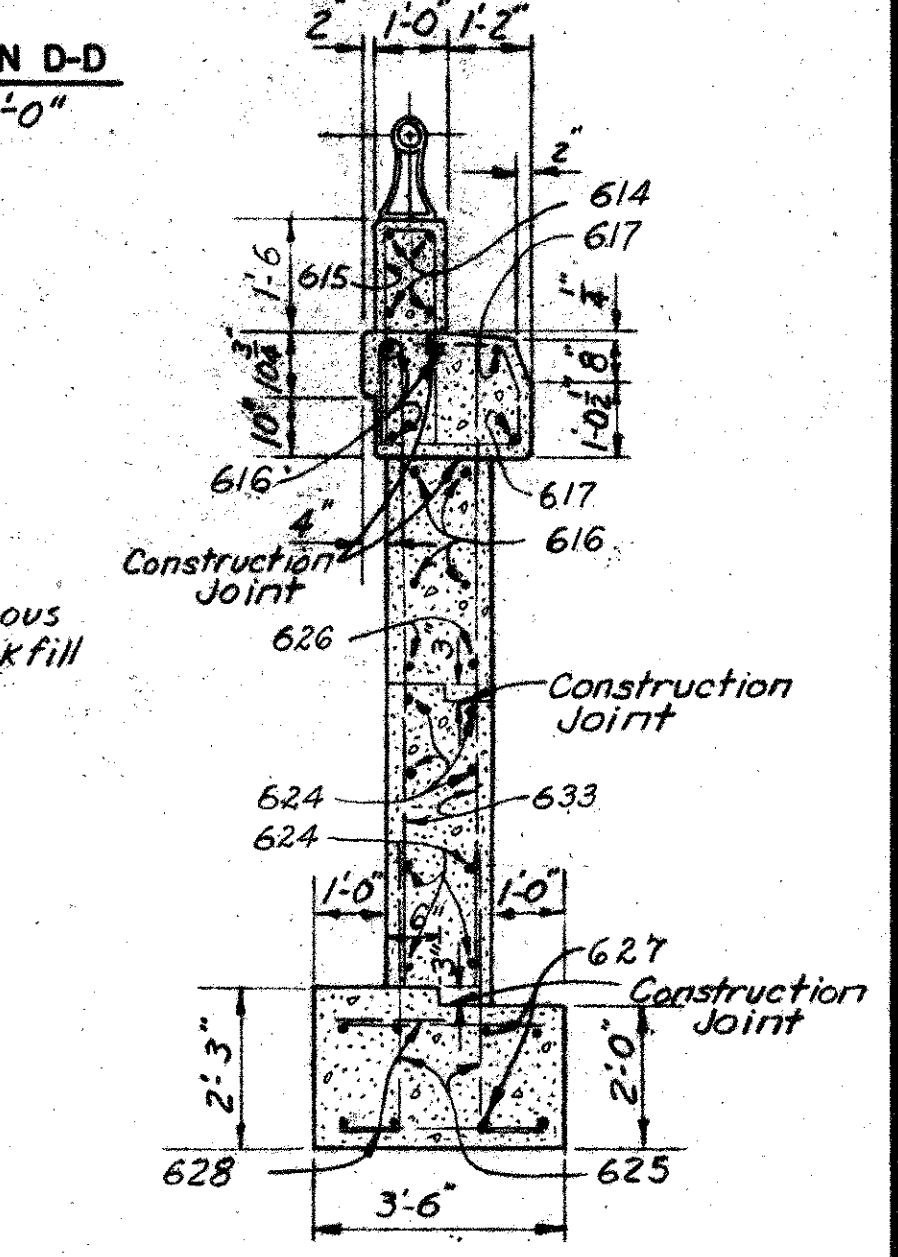
Note:
All elevations are given
at the front face of backwall.



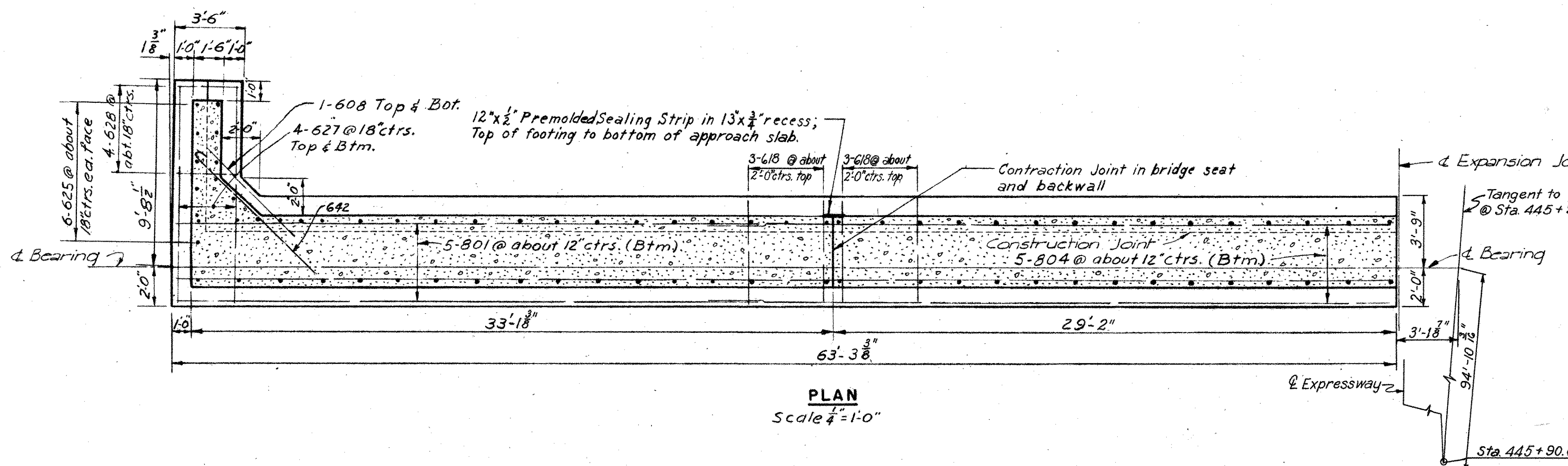
SECTION A-A
Scale 3/8" = 1'-0"



SECTION B-B
Scale 3/8" = 1'-0"

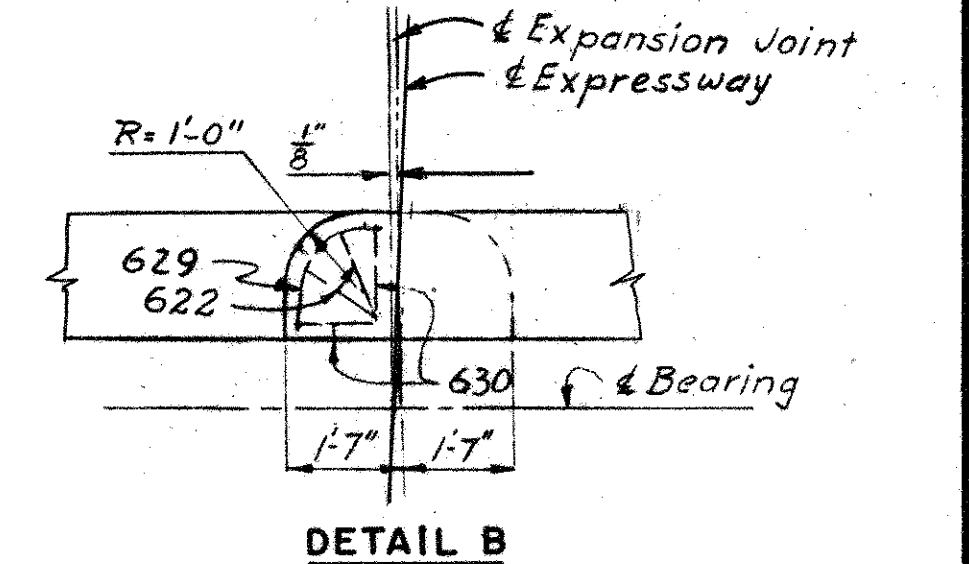


SECTION C-C
Scale 3/8" = 1'-0"



PLAN
Scale 1/4" = 1'-0"

Notes:
For details of porous backfill, weepholes, slope paving, expansion joint details and shoes see Common Details.
For Reinforcing Schedule see sheet 123.
Footing soil pressure 1.46 tons per sq. ft.
For details of East Half, North Abutment see sheet 110.
Procedure: The embankment shall be placed and compacted to full height of embankment slopes or subgrade, after which excavation shall be made for the abutment.



DETAIL B

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY CLEVELAND NEW YORK

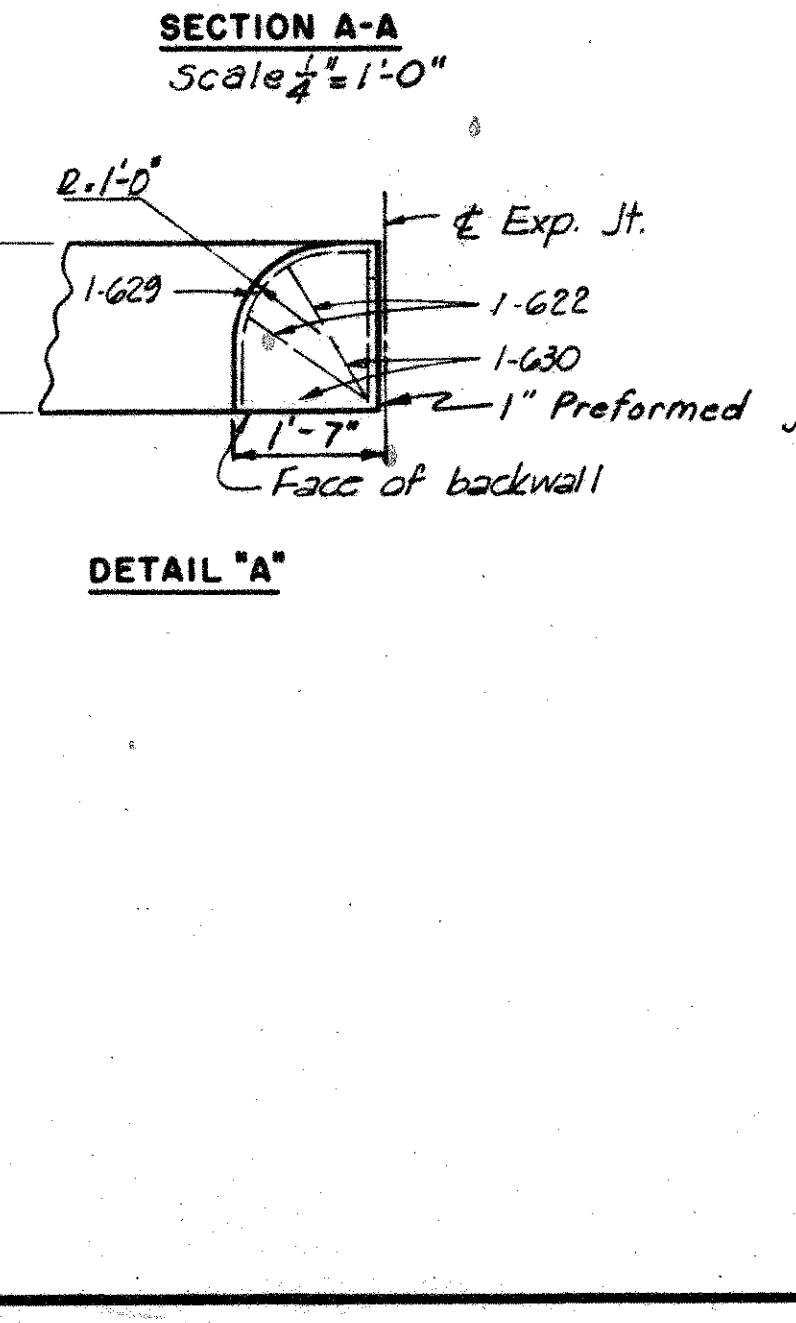
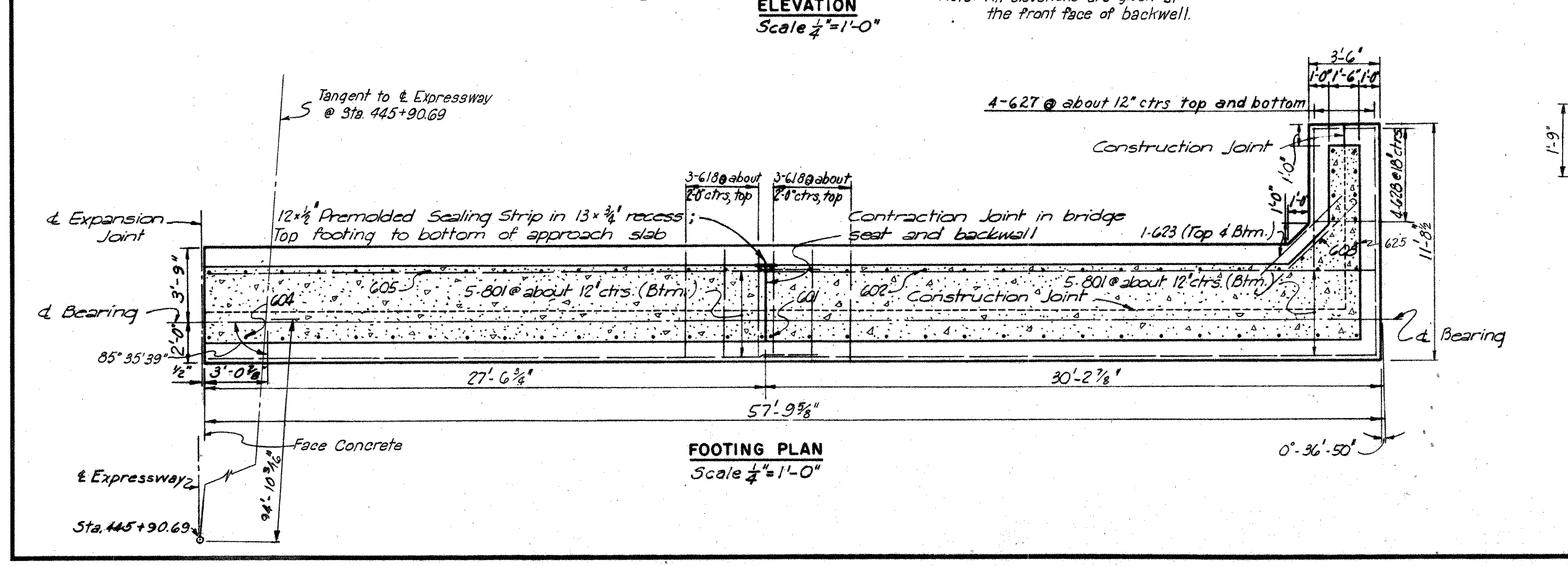
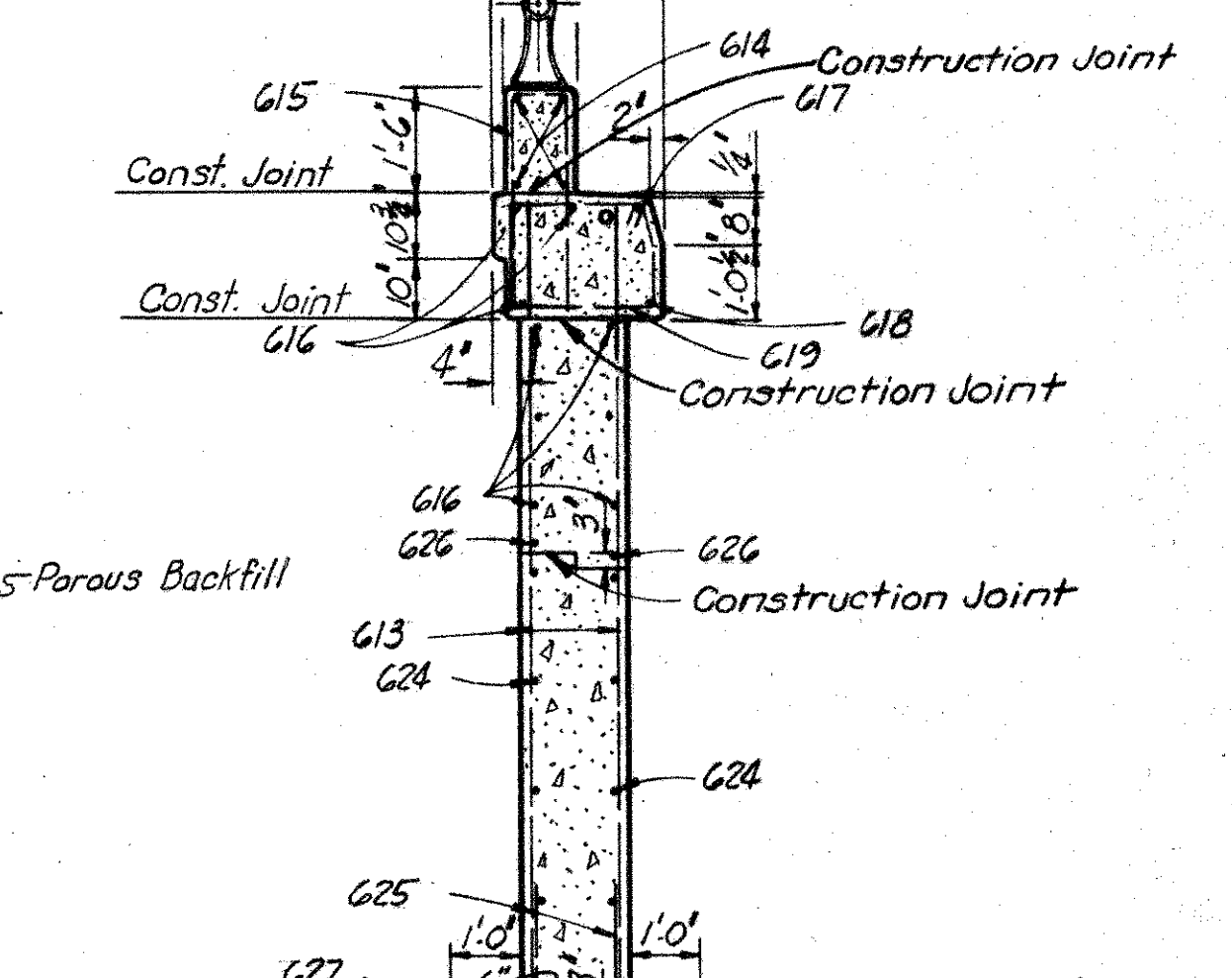
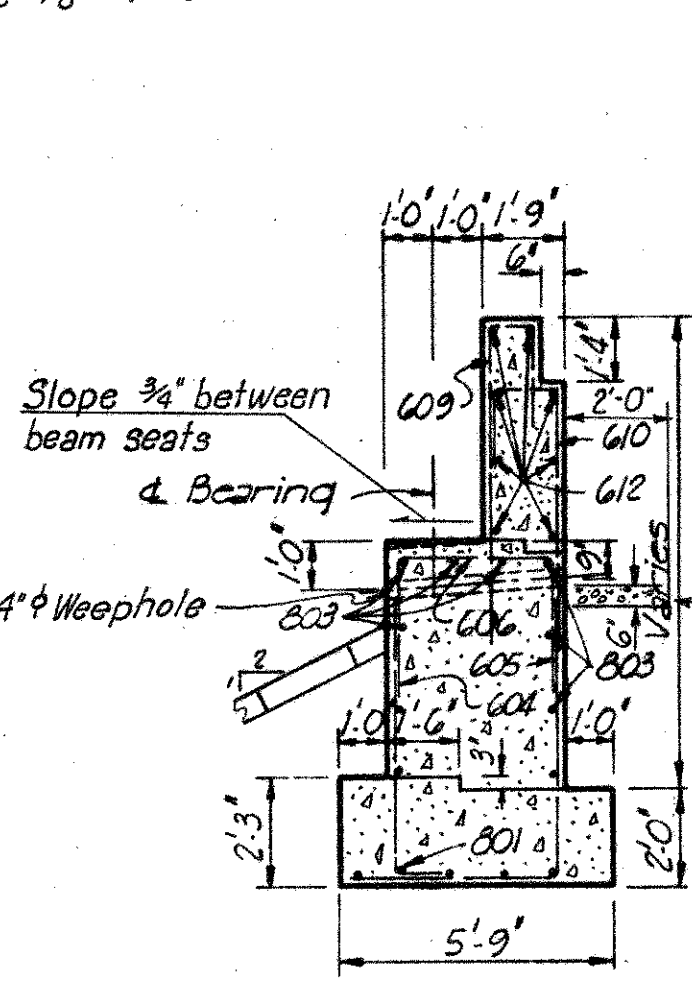
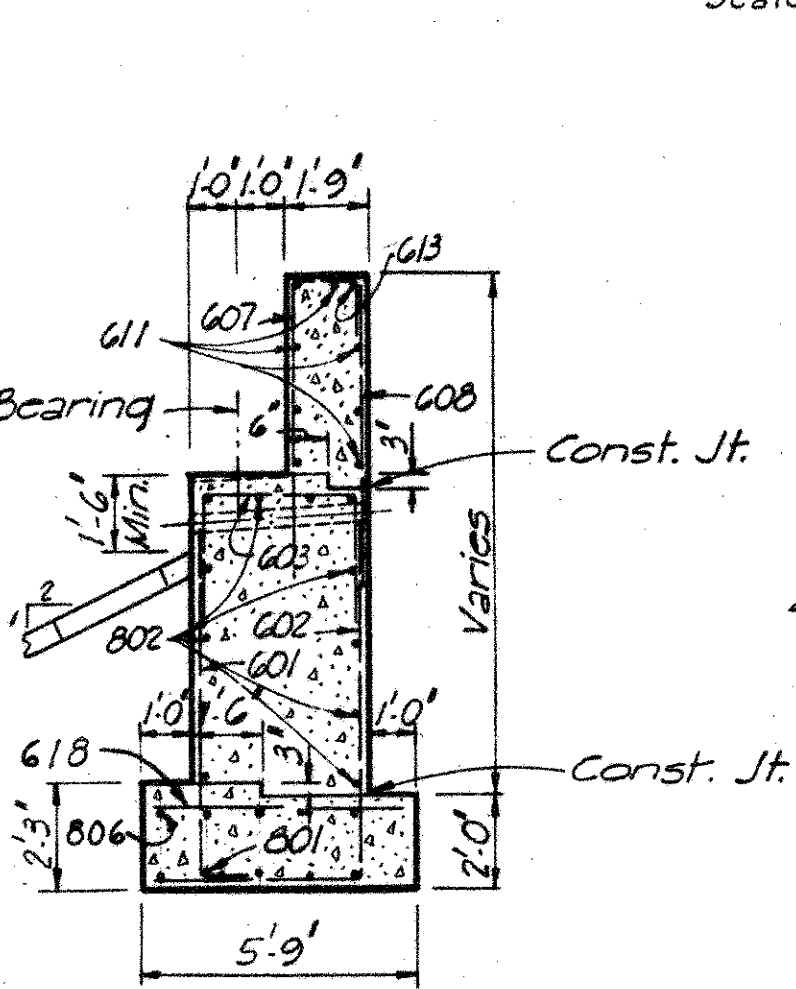
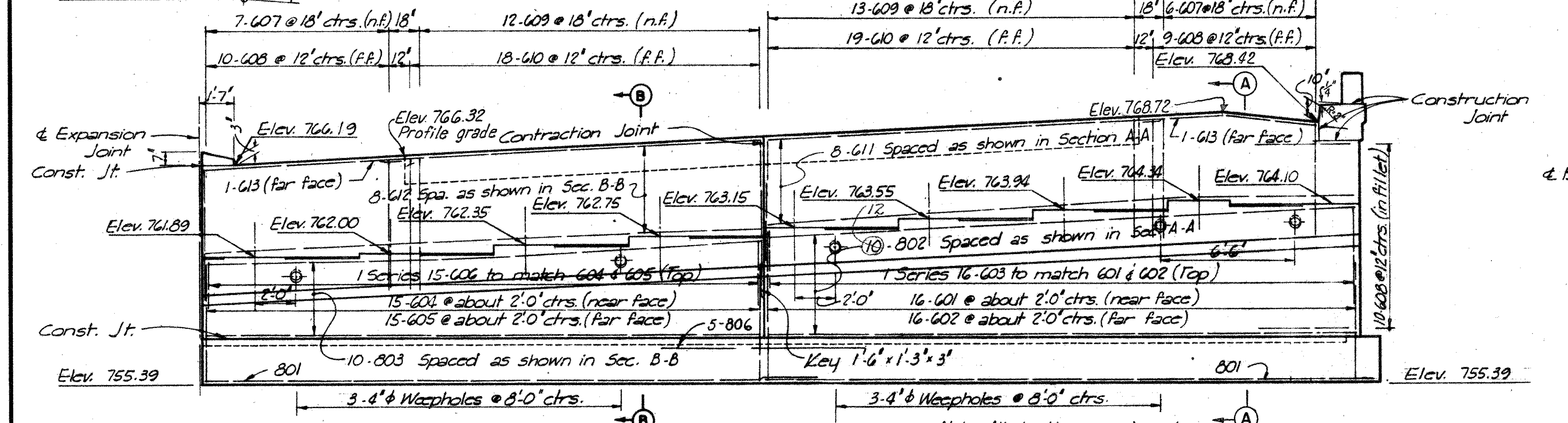
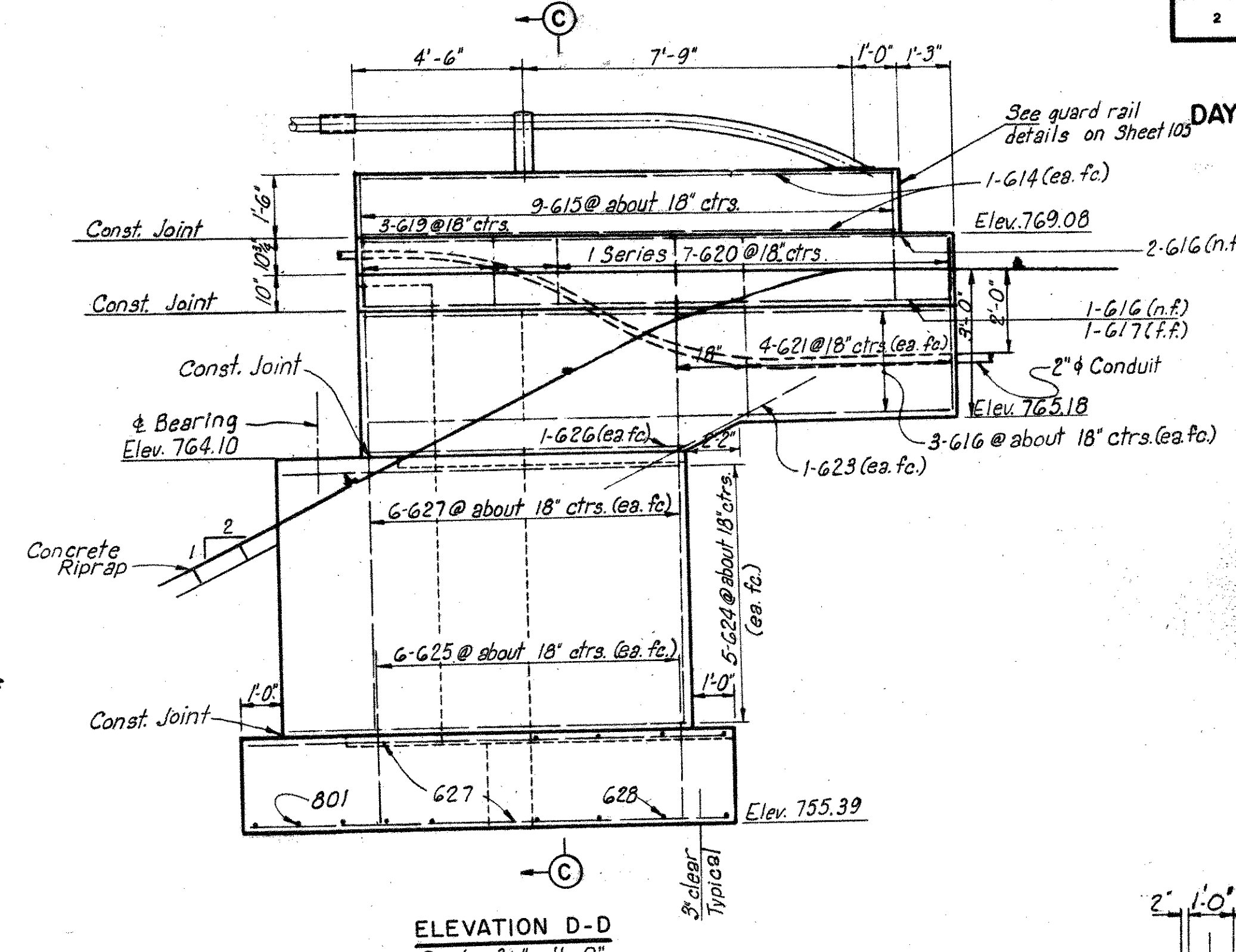
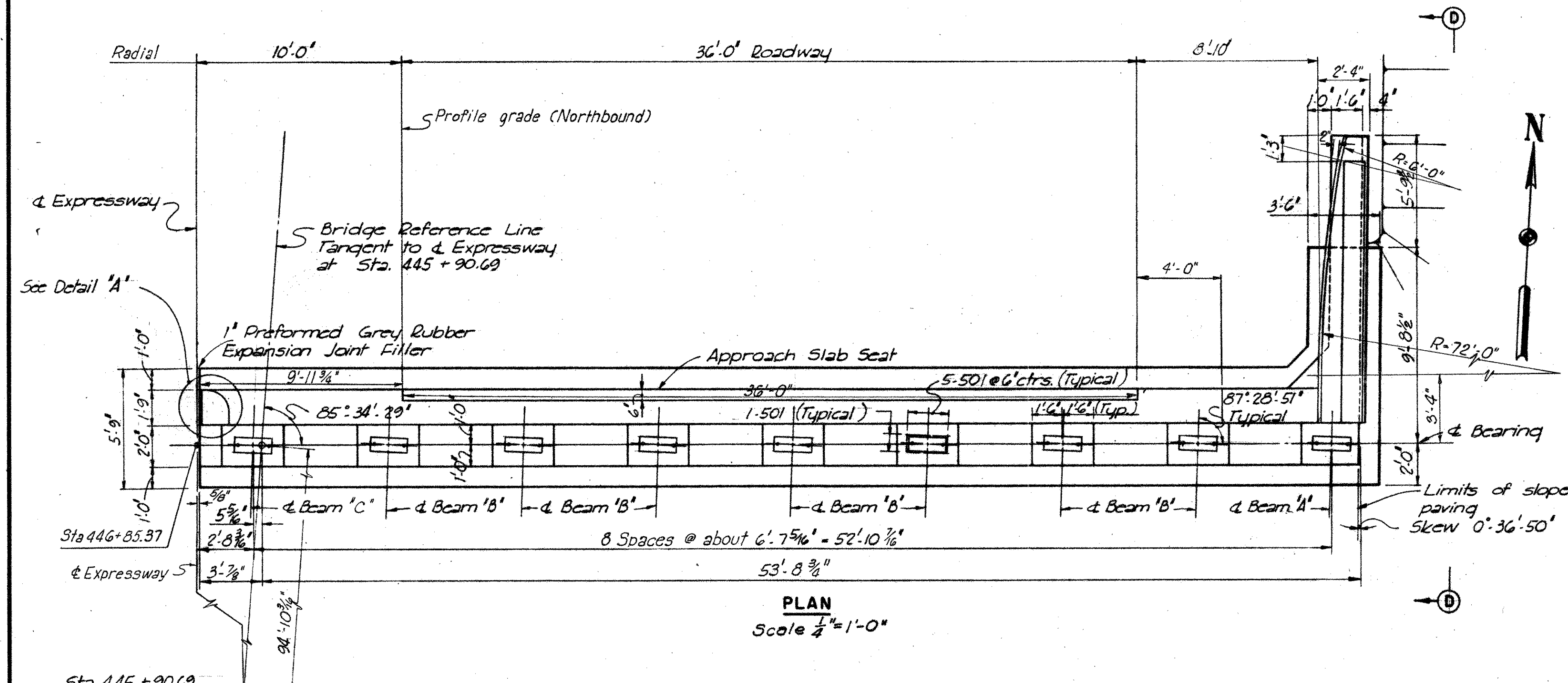
WEST HALF OF NORTH ABUTMENT
EXPRESSWAY OVER STANLEY AVENUE
BR. NO. MOT - 25 - 1652 STA. 444 + 80.50
SCALE: AS SHOWN 446 + 87.62

DAYTON EXPRESSWAY SYSTEM
DAYTON, MONTGOMERY COUNTY, OHIO

DRAWN C.R.C. & H.F.C.	TRACED	CHECKED J.J.J.	REVIEWED G.A.	REVISED
DATE	DATE	DATE 11-30-57	DATE 12-30-57	DATE

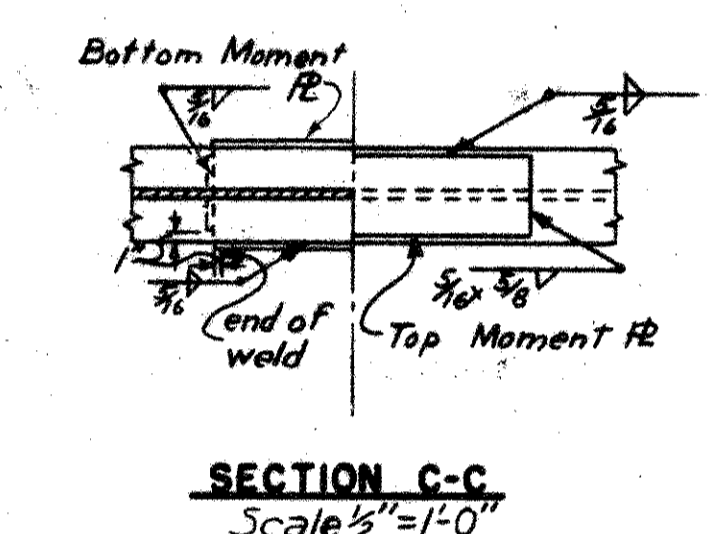
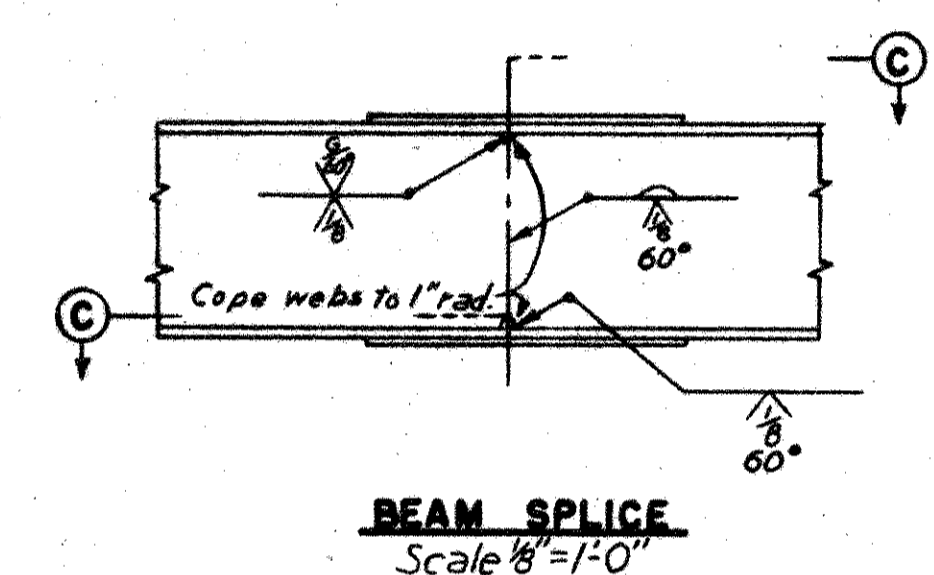
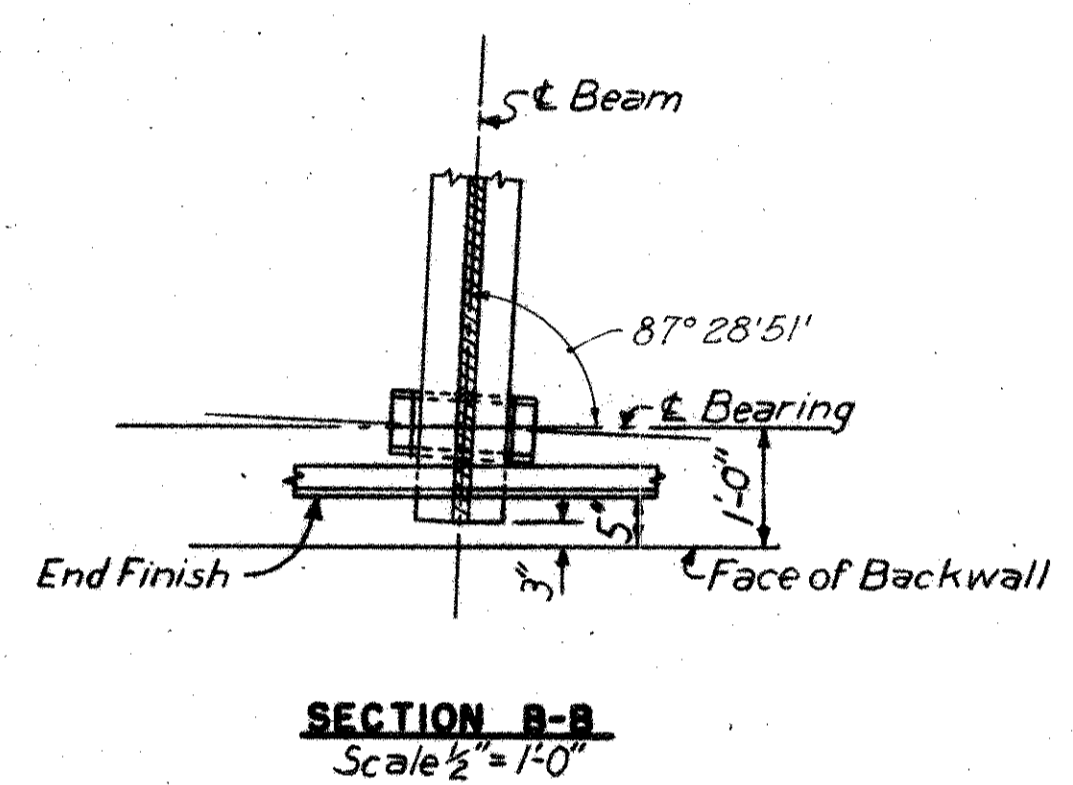
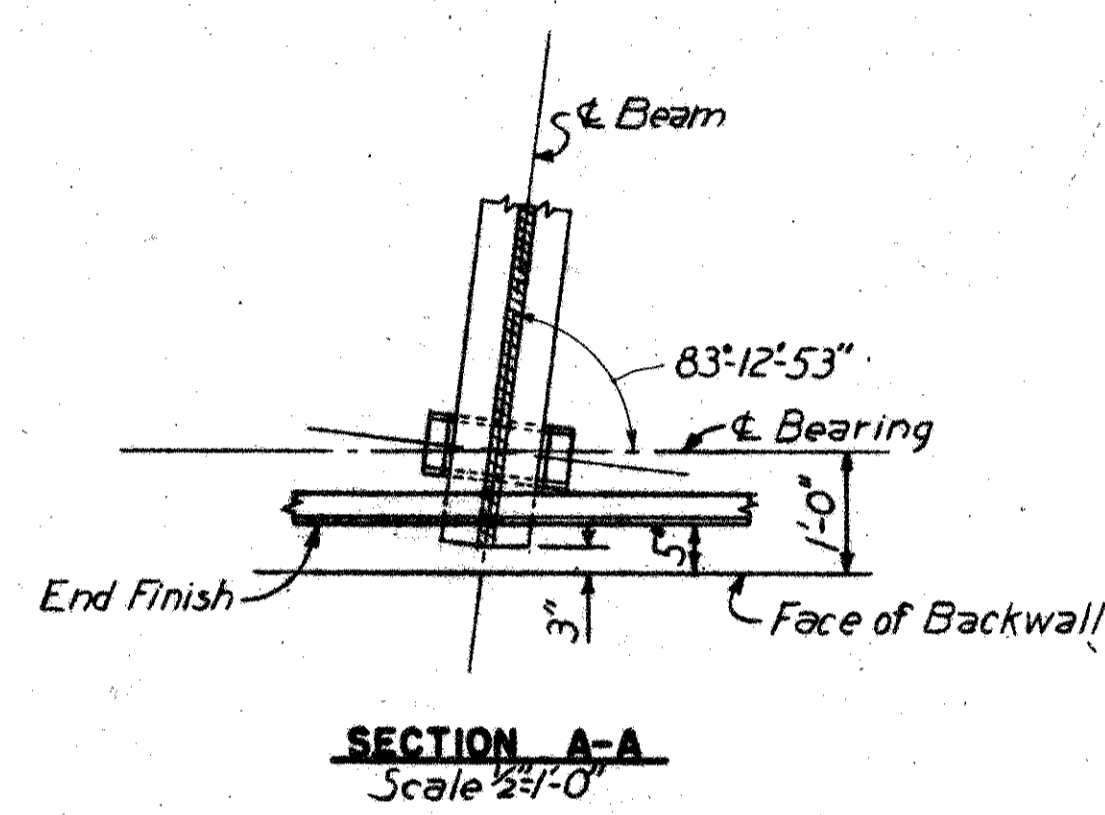
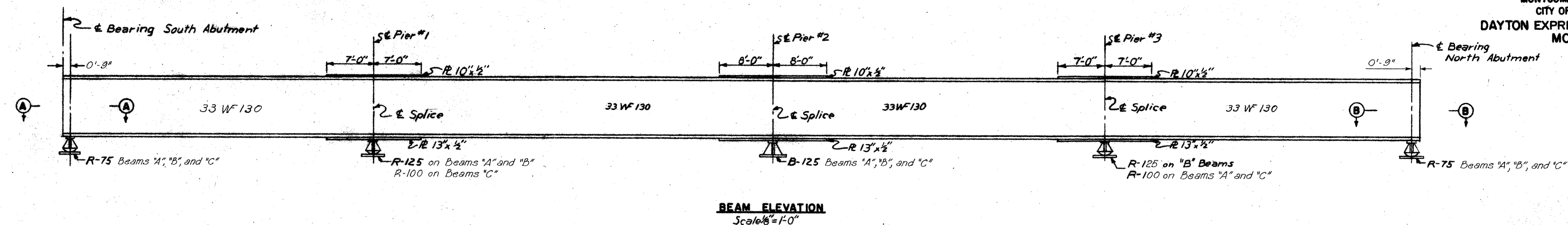
944 SHEET 118

MONTGOMERY COUNTY
CITY OF DAYTON
DAYTON EXPRESSWAY SYSTEM
MOT-25-15.88



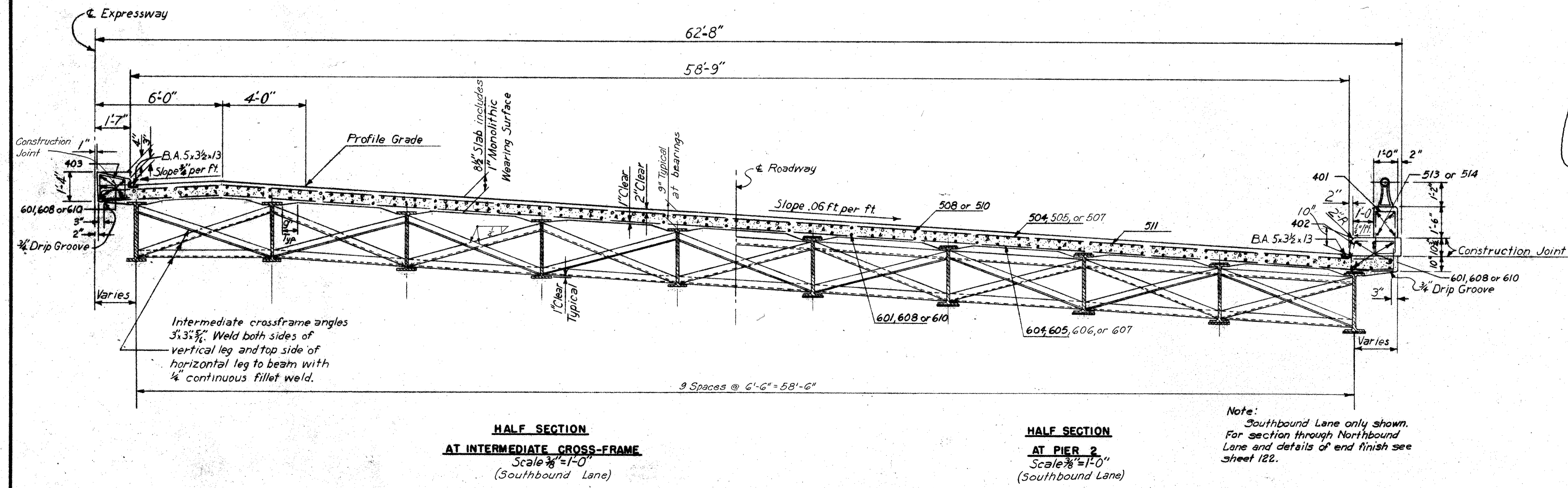
Notes:
For details of porous backfill, weepholes, slope paving, expansion joint details and shoes see Common Details.
For Reinforcing Schedule see sheet 123.
Footing soil pressure 1.46 tons per sq.ft.
For details of West Half, North Abutment see sheet 118.
Procedure: The embankment shall be placed and compacted to full height of embankment slopes or subgrade, after which excavation shall be made for the abutment.

HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS KANSAS CITY CLEVELAND NEW YORK		
EAST HALF OF NORTH ABUTMENT		
EXPRESSWAY OVER STANLEY AVENUE		
BR. NO. MOT - 25 - 1652	STA. 444 + 80.50	
SCALE: AS SHOWN	446 + 87.62	
DAYTON EXPRESSWAY SYSTEM		
DAYTON, MONTGOMERY COUNTY, OHIO		
DRAWN G22	TRACED	CHECKED J.J.M.
DATE 8-16-57	DATE	DATE 10-27-57
		REVIEWED GA
		DATE 4-28-59
		16-30-57
		944 SHEET 119



Notes:
For details of shoes see Common Details, sheet 105.

- Beam Splice Welding Procedure:**
- Raise end of beam at Pier 1 $1\frac{1}{8}$ ".
 - Butt weld the beam flanges and web at Pier 2, using the following sequence: make one pass on each flange, then one on the web; repeat until welds are complete.
 - Weld the bottom and top moment plates.
 - Lower beam into place.
 - For splices at Piers 1 and 3 repeat steps similar to 1 through 4 except by raising end of beam at South Abutment $\frac{3}{8}$ " and $\frac{5}{8}$ " at North Abutment.
 - Weld crossframes into place.
 - Crossframes marked with a • at Pier 2 shall be welded in place while the beam is in the raised position.



Note:
Southbound Lane only shown.
For section through Northbound Lane and details of end finish see sheet 122.

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY CLEVELAND NEW YORK

BEAM ELEVATIONS AND CROSS SECTIONS
EXPRESSWAY OVER STANLEY AVENUE
BR. NO MOT-25-1652 STA. 444+80.50
SCALE: As Shown 446+87.62

DAYTON EXPRESSWAY SYSTEM
DAYTON, MONTGOMERY COUNTY, OHIO

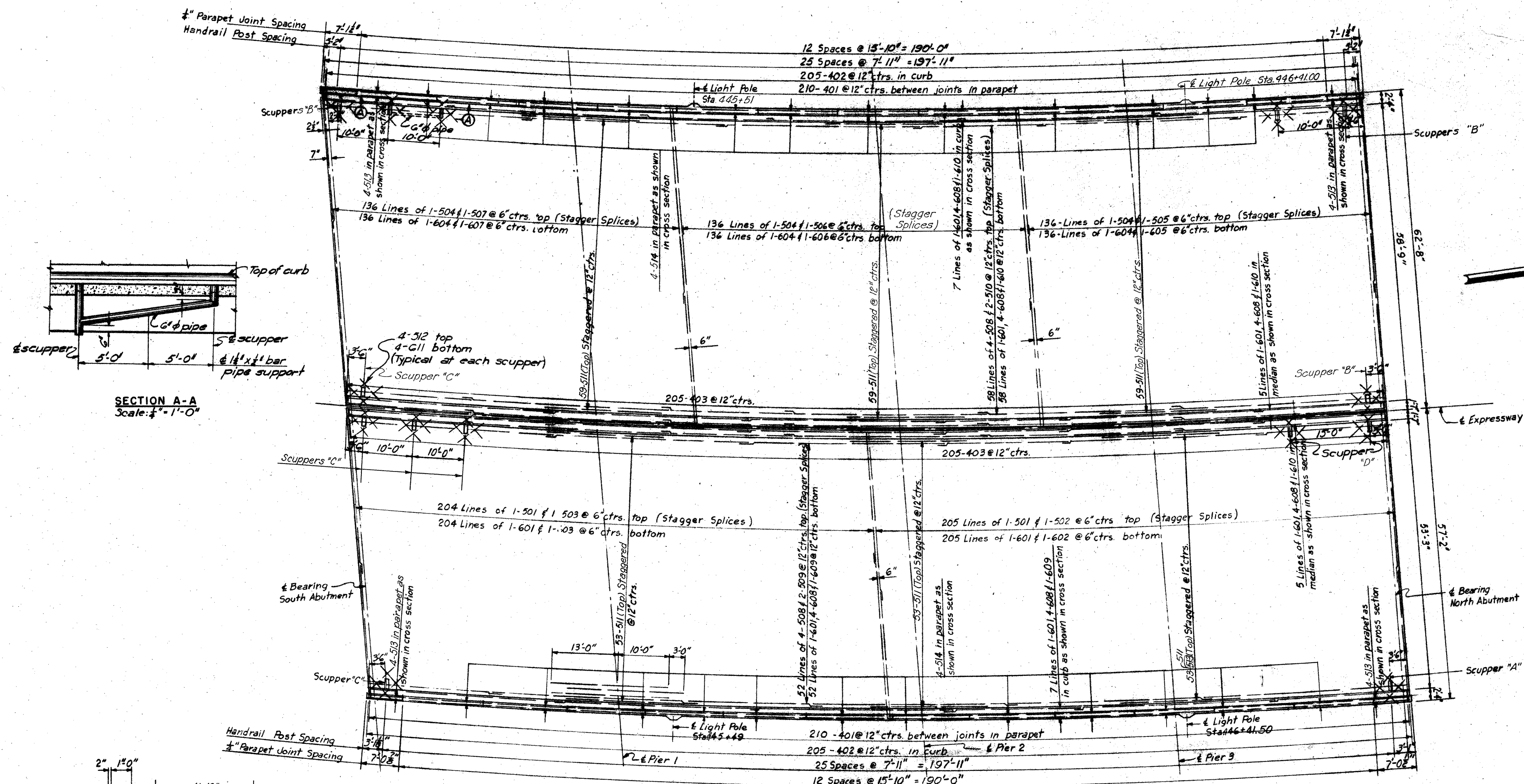
DRAWN RMS	TRACED	CHECKED R.C.	REVIEWED G.A.	REVISED
DATE 8/27/57	DATE	DATE 10-26-57	DATE	DATE

944 SHEET 121

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.
2	OHIO	

122
144

MONTGOMERY COUNTY
CITY OF DAYTON
DAYTON EXPRESSWAY SYSTEM
MOT-25-15.86



Notes:
For reinforcement schedule see sheet 0.123.
For details of light supports and scuppers see sheet 104.
For slab pouring sequence see General Notes.

HOWARD, NEEDLES, TAMMEN & BERGENOFF CONSULTING ENGINEERS KANSAS CITY CLEVELAND NEW YORK			
SLAB PLAN AND CROSS SECTIONS EXPRESSWAY OVER STANLEY AVENUE			
BR. NO. MOT-25-1652	STA. 444+80.50		
SCALE: As Shown	446+87.62		
DAYTON EXPRESSWAY SYSTEM DAYTON, MONTGOMERY COUNTY, OHIO			
DRAWN <i>RMS</i>	TRACED	CHECKED <i>GR</i>	REVIEWED <i>GA</i>
DATE 8/26/57	DATE 10-26-57	DATE 10-26-57	DATE 4-28-59
			944 SHEET 122

