

STATE OF OHIO DEPARTMENT OF HIGHWAYS

MOT-40R-23.41-CLA-40R-0.00 INCLUDING RELOCATION OF SR 4 & SR 69 MONTGOMERY COUNTY WAYNE TOWNSHIP CLARK COUNTY MAD RIVER & BETHEL TOWNSHIPS GREENE COUNTY BATH TOWNSHIP

LIMITED ACCESS

This improvement is especially designed for thru traffic and has been declared a Limited Access Highway or Freeway by action of the Director of Highways, in accordance with the provisions of Sec. 5511.02 of the Revised Code of Ohio

The Standard Specifications of the State of Ohio, Department of Highways, including changes and supplemental specifications listed in the proposal, shall govern this improvement.

The Right of Way for this improvement will be provided by the State of Ohio.

I hereby approve these plans and declare that the making of this improvement will not require the closing of the highway to traffic, except as noted on sheet NO. 9, and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

CONVENTIONAL SIGNS

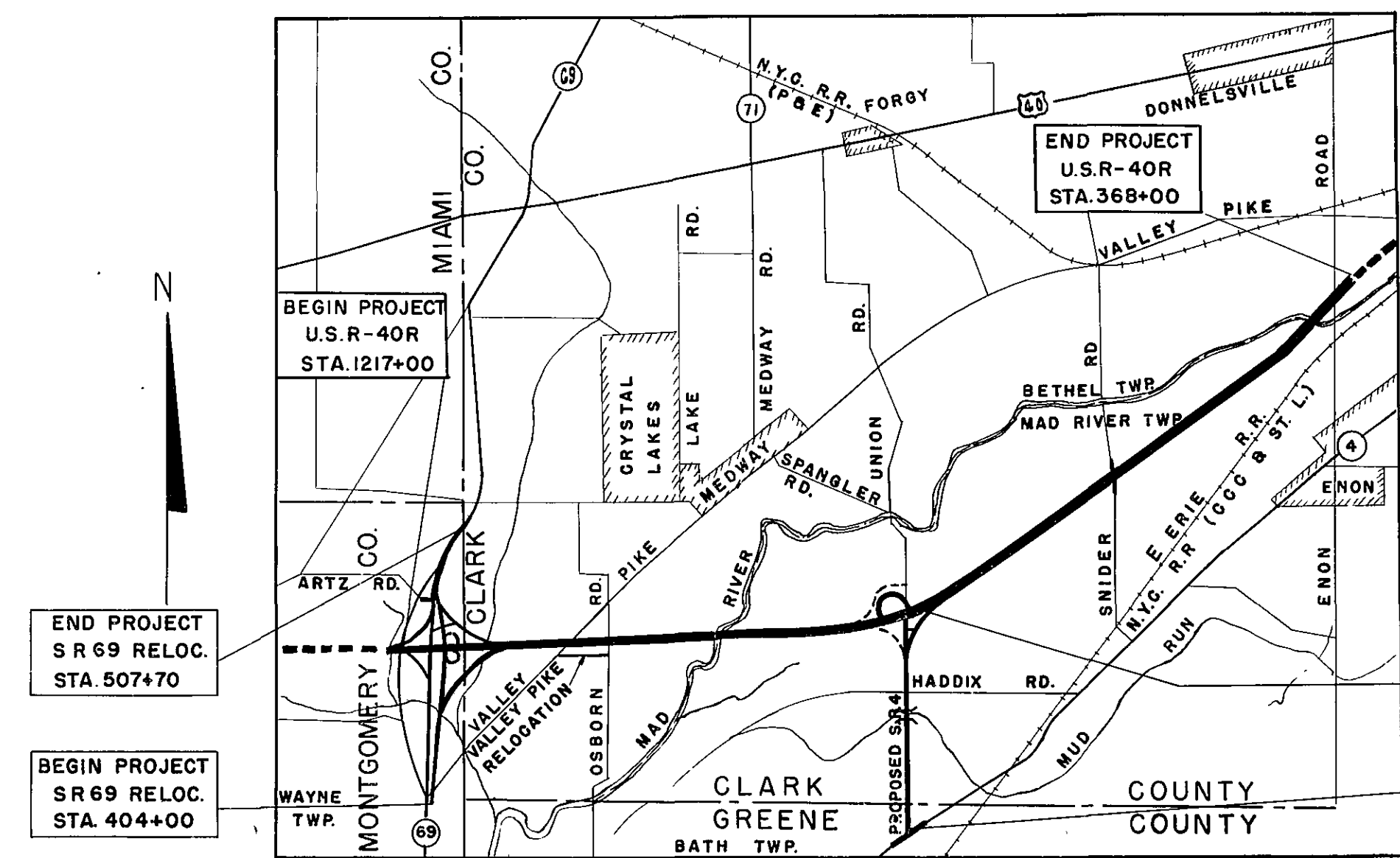
- Center Line
- Section Line
- Existing R/W
- Proposed R/W
- Slope Easement
- Property Line
- Fence Line
- Water Line
- Gas Line
- Existing Sewer
- Proposed Sewer
- Water Valves
- Existing Manholes
- Proposed Manholes
- Manholes Adjusted to Grade
- Manholes Abandoned
- Manholes Removed
- Power Pole
- Light Pole
- Trees to be Removed
- Railroads
- Existing Retaining Wall
- Existing Guard Rail
- Proposed Guard Rail

- Gas Valves
- Existing Catch Basins
- Proposed Catch Basins
- Catch Basins Adjusted to Grade
- Catch Basins Abandoned
- Catch Basins Removed
- Telephone Pole
- Water Hydrant
- Traffic Light

INDEX OF SHEETS

Title Sheet	1
Schematic Plan & Detours	2
Typical Sections	3-8
General Notes	9-10
General Summary	11-12
Summary of Quantities	13-18
Special Details	19-22
US 40 Super-elevation Tables	23-24
US 40 Plan & Profile	25-59
US 40 Cross Sections	60-138
SR 69 Relocation Plan & Profile	139-148
SR 69 Interchange Details & Cross Sections	149-209
Valley Pike Relocation Details & Cross Sections	210-215
Osborn Road Plan-Profile and Cross Section	216-220
SR 4 Intersection Details	221-224
SR 4 Relocation Plan & Profile	225-232
SR 4 Interchange Details	233-238
SR 4 Cross Sections	239-266
Snider Road Plan-Profile, Details & Cross Sections	267-272
Enon Road Plan-Profile & Cross Sections	273-276
Channel Relocation and Cleanouts	277-286
Structures over 20' Span	287-370
Right of way	371-405

Sheet 289A added 1-17-58



- Approved *[Signature]*
Date 10-4-55 Division Deputy Director
- Approved *[Signature]*
Date 10-4-55 Division Deputy Director
- Approved *[Signature]*
Date 10-14-55 Deputy Director of Planning & Programming
- Approved *[Signature]*
Date 10-13-55 Engineer of Bridges
- Approved *[Signature]*
Date 10-13-55 Engineer of Location & Design
- Approved *[Signature]*
Date 10-13-55 Deputy Director of Design & Construction
- Approved *[Signature]*
Date 10-14-55 First Assistant Director
- Approved *[Signature]*
Date 10-14-55 Director of Highways

LINE DATA

U.S.R-40R Net Length of Project	= 39,112.20 L.F.
S.R. 69 Reloc. Net Length of Project	= 10,370.00 L.F.
S.R. 4 Reloc. Net Length of Project	= 8,487.38 L.F.
Total Length of Project	= 57,969.58 L.F. = 10.979 Mi.
USR-40- Net Length of Work	= 39,166.20 L.F.
US 69 Reloc. Net Length of Work	= 10,634.29 L.F.
SR 4 Reloc. Net Length of Work	= 8,982.00 L.F.
Approaches Net Length of Work	= 10,136.90 L.F.
Total Length of Work	= 68,919.39 L.F. = 13.064 Mi.

STANDARD DRAWINGS			
NUMBER	DATE	NUMBER	DATE
L-3	4-1-50	I-8 MH. NO. 1	5-1-52
L-3-A	4-1-50	I-12	7-1-54
DR-1	1-3-55	I-14 G.	1-22-52
RI-1	1-3-55	I-15 NO. 1	8-1-55
T-35	10-1-52	I-15 NO. 2	12-1-54
B-T-71R	3-2-53	I-21-23	12-1-54
L.J. NO. 1	7-1-55	G-707	1-2-53
T.J.	7-1-55	B-T-50-70	
L-1	4-1-50	71E NO. 1	10-1-47
I-8 IN 2	12-1-54	OS-1	7-1-55
S-27 PC 2	3-15-48	OS-2	7-1-55
S-27 PC 3	2-20-45	SP-53	7-21-53
S-27 PC 4	1-4-54	AS-1-54	12-1-54
I-1, 2, 3, 4, 5	2-20-45	A-1-54	12-1-54
I-8 1-2A & B	5-1-52	P-1-54	12-1-54
I-8 2-2A & B	5-1-52	CS-1-54 (2 Shrs)	12-1-54
I-8 2-3 & 2-4	5-1-52	CS-2-54 (2 Shrs)	12-1-54
I-8 MH. NO. 1-A	1-3-55		

DELIVERY POINT ERIE R.R. FAIRBORN, OHIO
AVERAGE HAUL N.Y.C. R.R. FAIRBORN, OHIO
5 MILES

LOCATION PLAN
PORTION TO BE IMPROVED _____
STATE HIGHWAYS _____
OTHER HIGHWAYS _____

SCALE
PLAN AND PROFILE _____ 1" = 50'
PAVEMENT DETAILS _____ 1" = 20'
CROSS SECTIONS _____ 1" = 10'

SUPPLEMENTAL SPECIFICATIONS			
NUMBER	DATE	NUMBER	DATE
L-209.12	7-17-54		
B-119	Rev. 12-1-54		
M-110.27	9-9-52		
18	Rev. 9-7-55		
5	6-8-55		
M-109.23	Rev. 5-28-54		

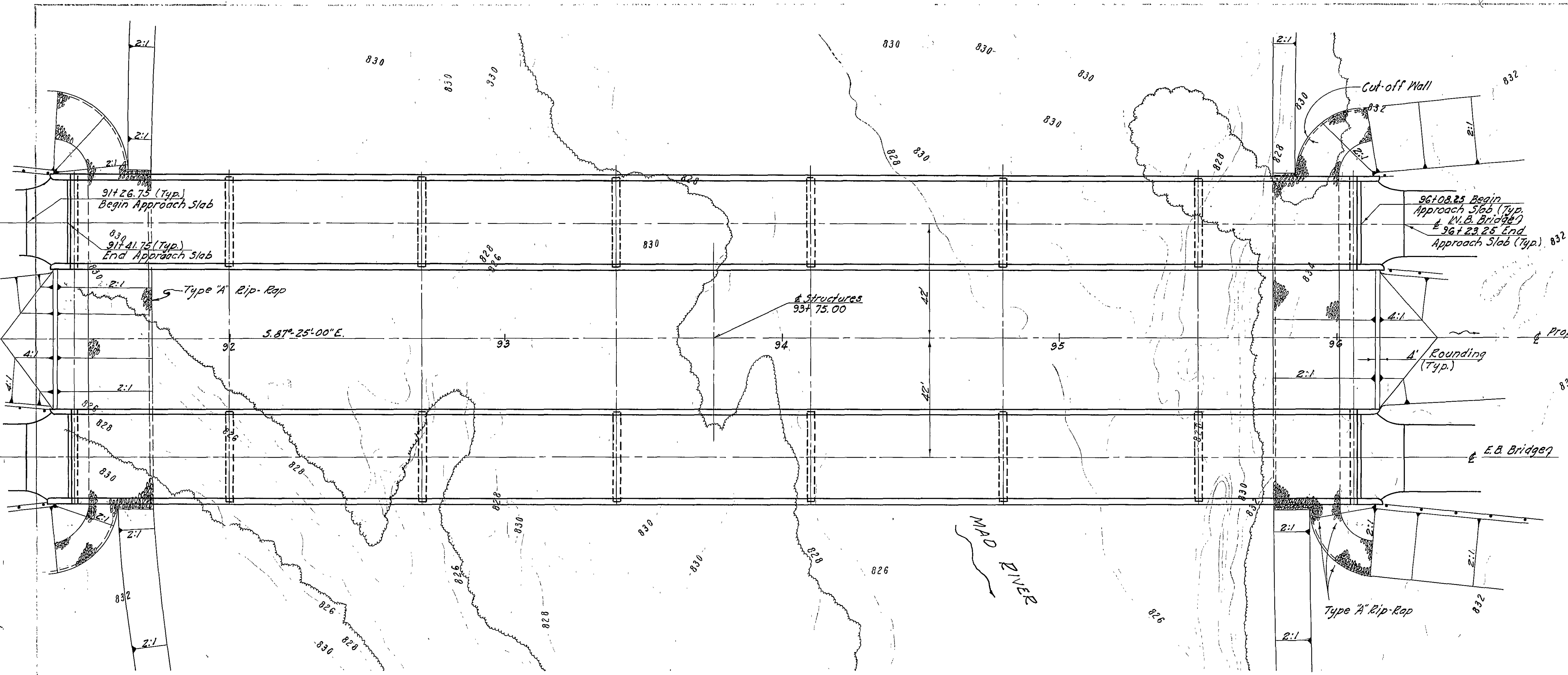
PLANS PREPARED BY
ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
245 NORTH HIGH STREET.
COLUMBUS, OHIO
FOR
STATE OF OHIO

FILE NUMBER	MONTGOMERY & CLARK COUNTIES MOT-40R-23.41 CLA-40R-0.00
Date of Letting	
Contract Number	

MOT. 70 - 23.02 - 23.45
CLA. 70 - 0.00 - 6.96

Reviewed and Approved *[Signature]*
Date 10-14-55 Engineer of Traffic

I.R. 70



PROPOSED STRUCTURE
 Type: Continuous steel beam bridge with reinforced concrete deck and substructure.
 Spans: 36'-0", 5 @ 70'-0", 56'-0" & bearings
 Roadway: 30'-0" / 2'-0" safety curbs with steel railing
 Loading: C.F-2000
 Wearing Surface: 1" Mono. conc.
 Skew: None
 Alignment: Tangent
 Approach slabs: 15' long (See Sheet 292)

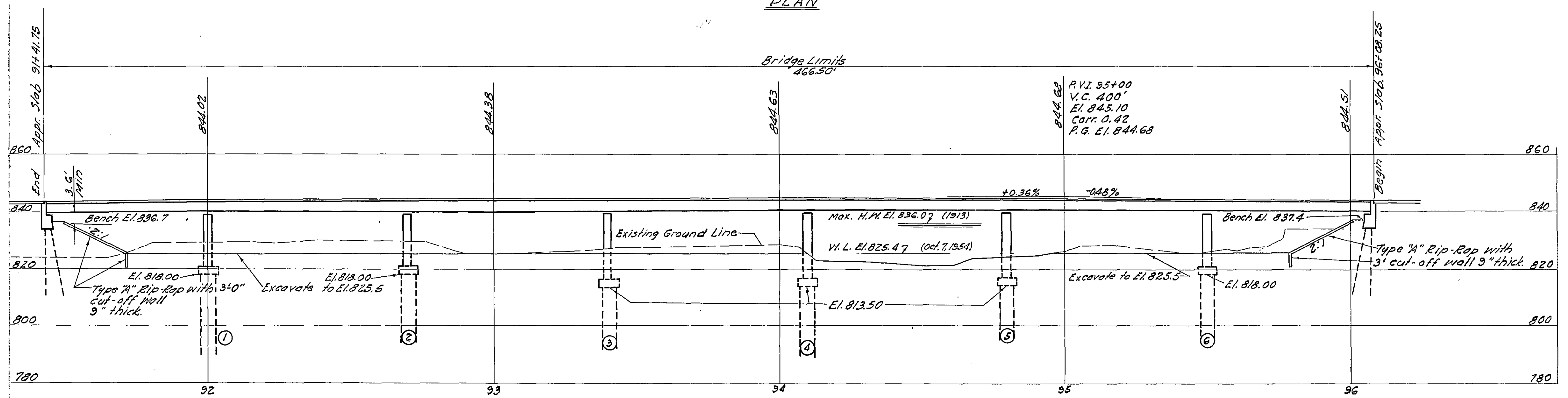
Drainage Area 5.47 sq. mi.
 Design Discharge 62,400 c.f.s.
 (Total for Mad River)

Note: Discharge shown above will be carried by structures No. C.L-40-16 & C.L-40-17.

Channel Excavation: For Channel Excavation See Roadway Plans Sheet Nos. 280 & 281

Piling: Piling shall be 14" Cast in Place Reinforced Concrete.
 Estimated Average Pile Length of Piles:

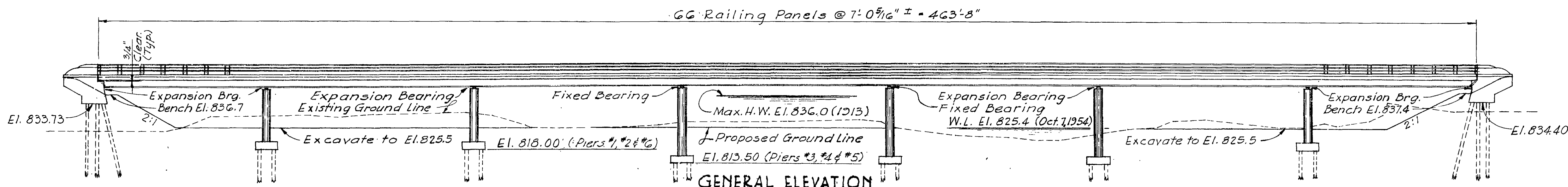
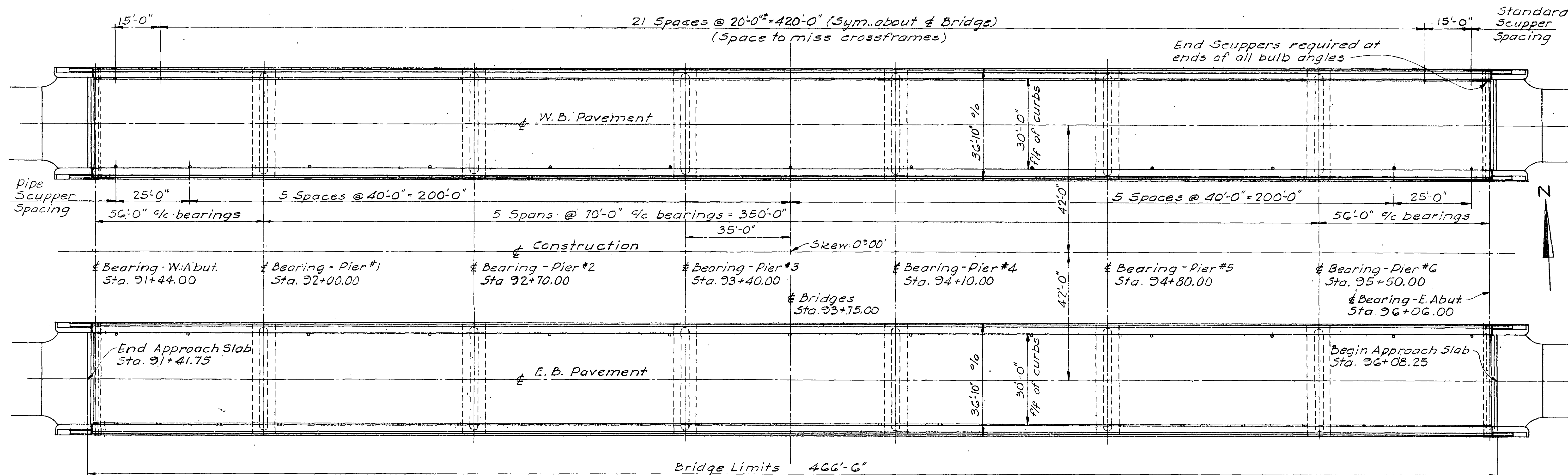
W. Abut.	33 ft.	Pier #4	33 ft.
Pier #1	34 ft.	Pier #5	32 ft.
Pier #2	31 ft.	Pier #6	34 ft.
Pier #3	33 ft.	E. Abut.	33 ft.



PROFILE ALONG E

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

SITE PLAN
 BRIDGE No. CL-40R-17
 U.S. 40 OVER MAD RIVER
 AT OSBORN ROAD
 CLARK COUNTY
 SEC. -CLA-40R-0.00 STA 93+75.00
 Designed Drawn Traced Checked Reviewed Date
 C.E.H. C.E.H. J.S.B. J.H.C. T.L.U.



GENERAL NOTES

EXTENT OF WORK:

THE WESTBOUND STRUCTURE ONLY SHALL BE CONSTRUCTED UNDER THIS CONTRACT. GRADING AS INDICATED ON THE SITE PLAN SHALL BE COMPLETED TO THE ELEVATION SHOWN ON THE ROADWAY TYPICAL SECTIONS, EXCEPT THAT THE EARTH BENCH FOR THE EASTBOUND STRUCTURE NEED NOT BE CONSTRUCTED. ALL RIPRAP AND GUTTERS AS SHOWN ON THE PLANS SHALL BE COMPLETED.

EXCAVATION QUANTITY:

EXCAVATION QUANTITY FOR THE WESTBOUND STRUCTURES INCLUDES THE REMOVAL OF FILL MATERIAL BETWEEN THE TOP OF THE EARTH BENCH AND THE BOTTOM OF THE ABUTMENT CROSSBEAM AND FOR THE EASTBOUND STRUCTURE INCLUDES

THE REMOVAL OF FILL MATERIAL BETWEEN THE TOP OF FILL AND THE BOTTOM OF ABUTMENT CROSSBEAM

WELDED STEEL:

THE STEEL FOR THE 36 INCH WIDE FLANGE 182 BEAMS SHALL CONFORM TO ASTM DESIGNATION A-373. ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO EITHER ASTM A-7 (AS PER SEC. M-7.4 (A) OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS) OR TO A-373.

SURFACE FINISH OF CONCRETE:

PARAPET FACES, CONCRETE CURB FACES, FACIAS OF DECK SLAB, AND EXPOSED SURFACES OF ABUTMENTS SHALL RECEIVE A RUBBED SURFACE FINISH. ALL

PILING:

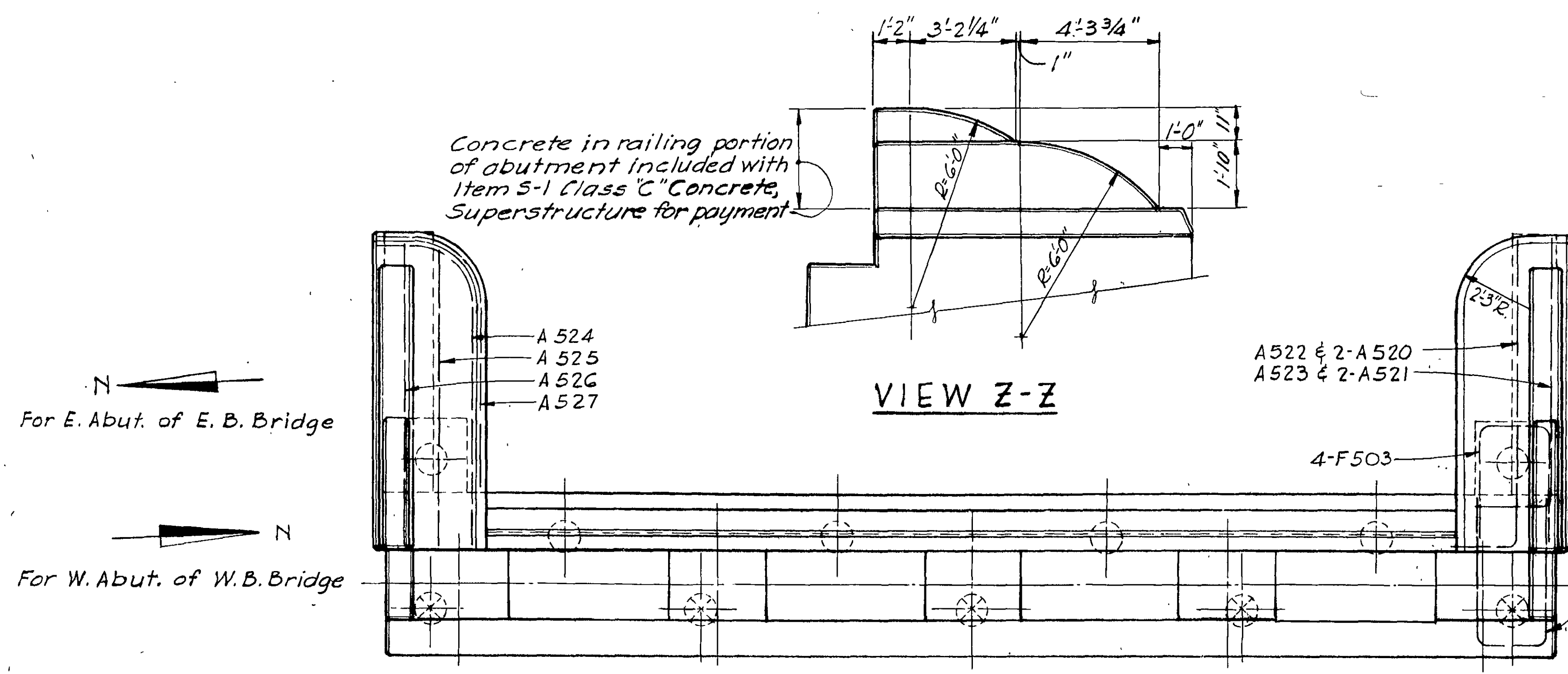
OTHER EXPOSED SURFACES SHALL BE GOVERNED BY THE PROVISIONS OF ITEM S-1.

PILING SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 30 TONS FOR THE ABUTMENTS; 40 TONS FOR PIERS NUMBER 1, 2, 5, AND 6; AND 50 TONS FOR PIERS NUMBER 3 AND 4. THE LENGTH OF PENETRATION OF EVERY PILE SHALL BE AT LEAST 80% OF THE ESTIMATED AVERAGE PAY LENGTH OF THE PILES IN THE PERTINENT PIER OR ABUTMENT AS INDICATED ON THE PLANS UNLESS A LESSER PENETRATION IS APPROVED BY THE DIRECTOR.

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

GENERAL NOTES, PLAN & ELEVATION
BRIDGE NO. CL-40R-17
U.S. 40 OVER MAD RIVER AT OSBORN RD.
CLARK COUNTY
SEC. CLA. 40R-0.00 STA. 93+75.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
INNES	INNES		J.B.E.	T.L.U.		10-10-55



For E. Abut. of E. B. Bridge

For W. Abut. of W. B. Bridge

Indicates battered piles

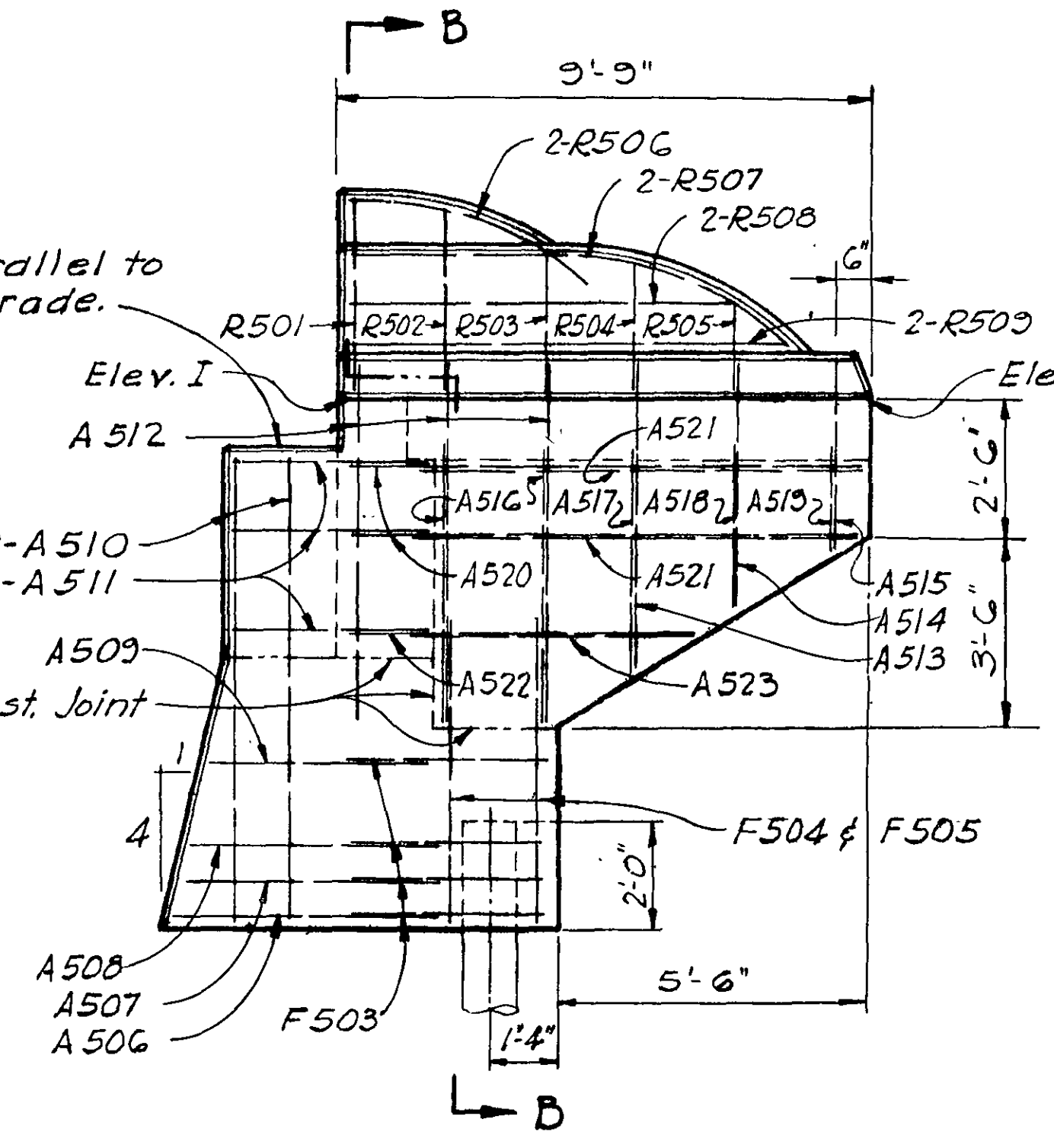
PLAN

SEQUENCE of CONCRETE POURING

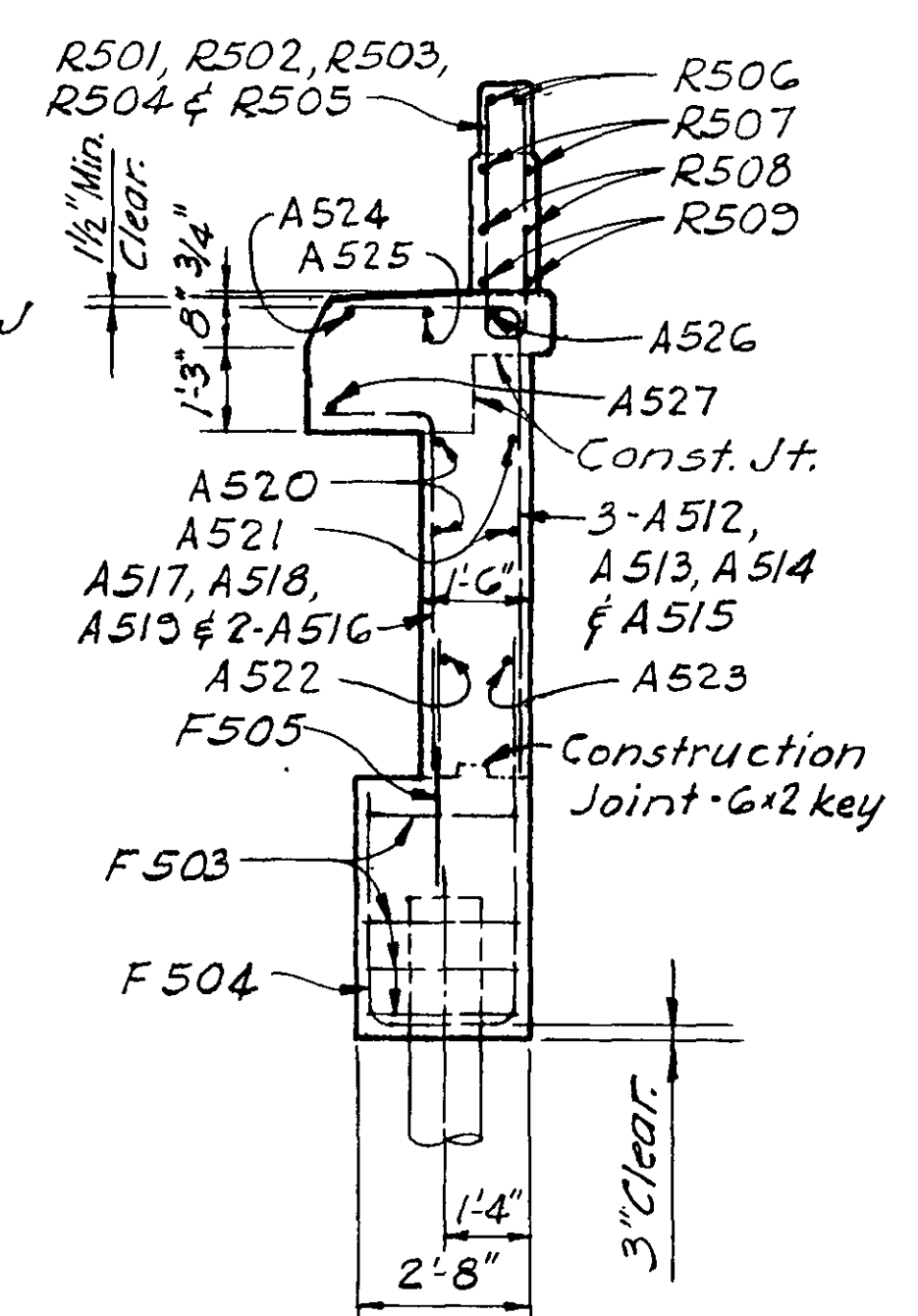
1. Pour cap & wingwall footings
2. Pour wingwalls & curtainwalls
3. Pour backwall
4. Pour curbs
5. Pour parapets

Slope parallel to profile grade.

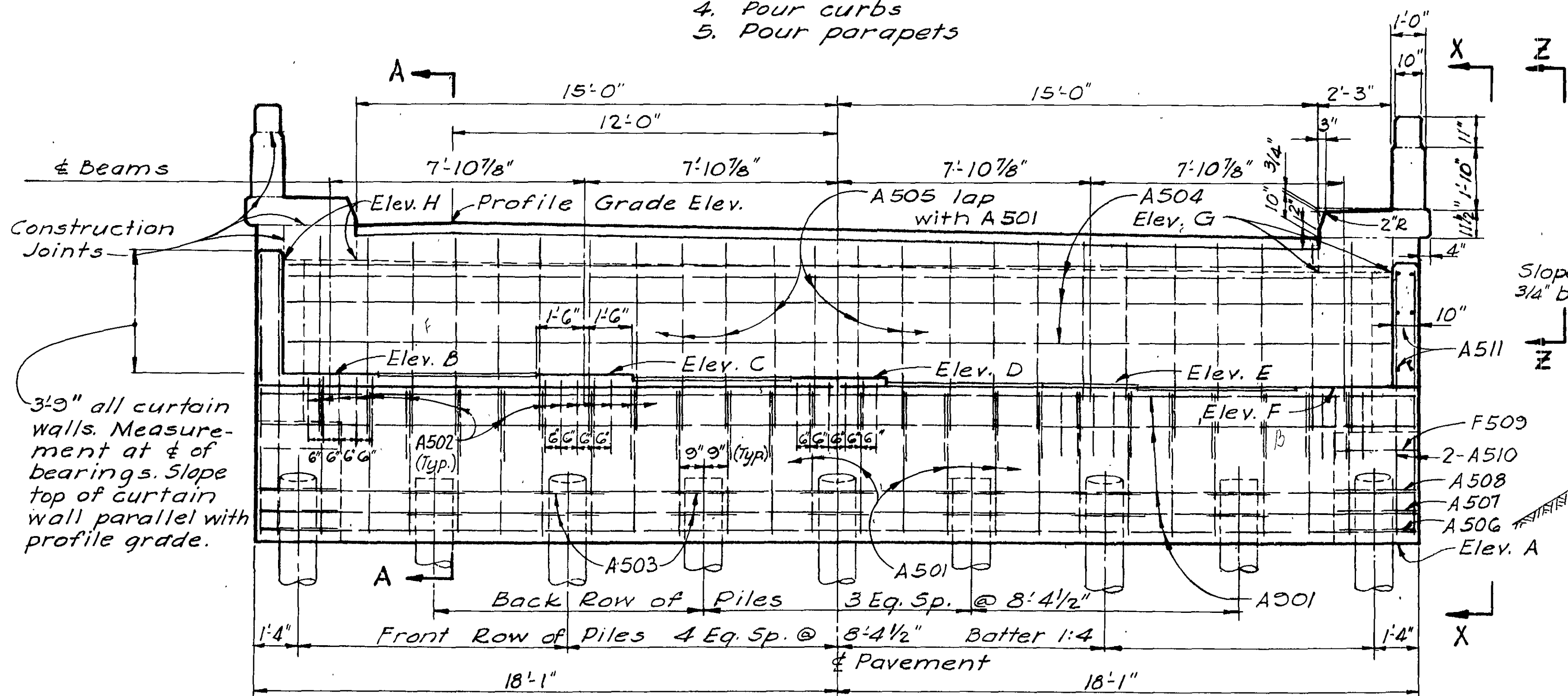
Optional Const. Joint



VIEW X-X



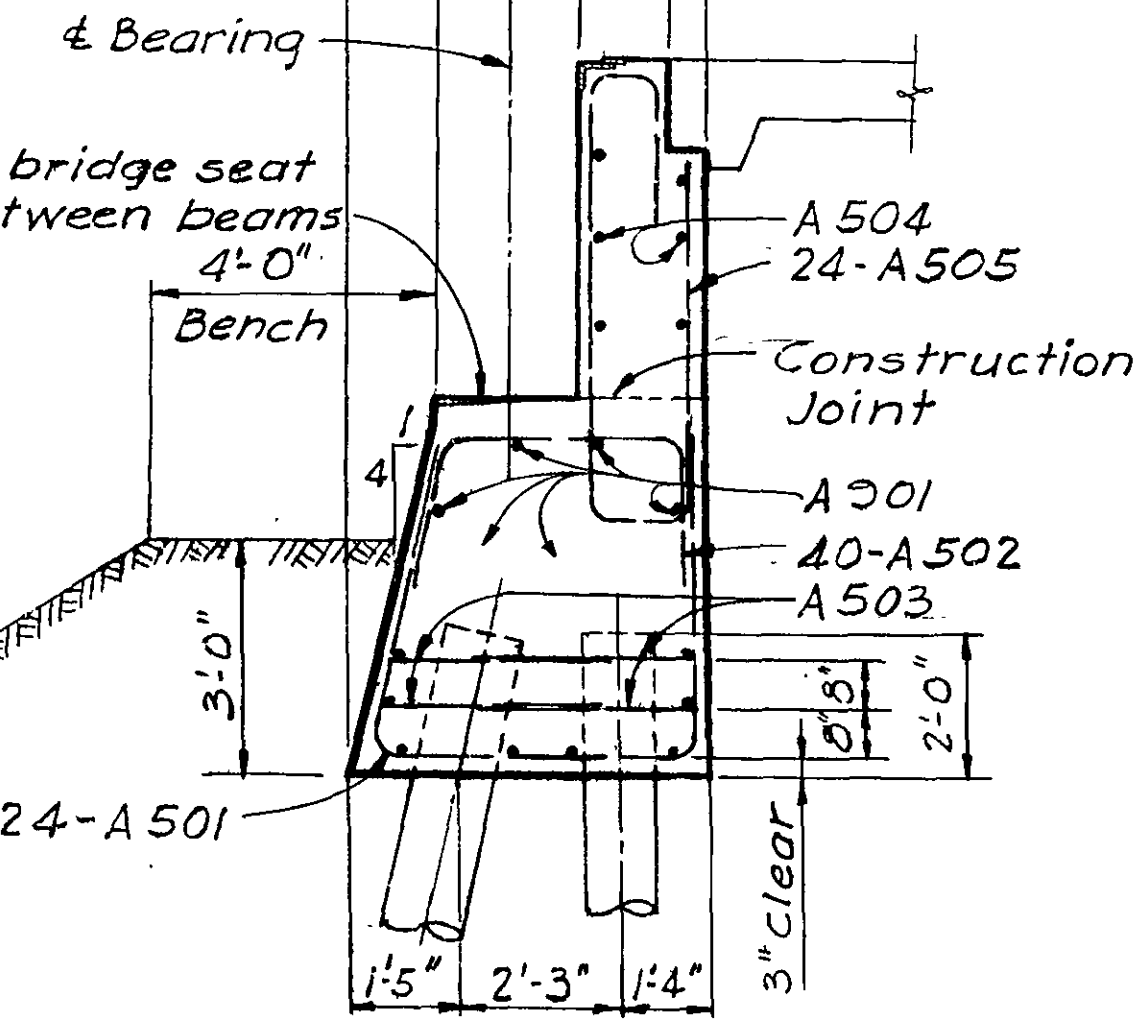
SECTION B-B



ELEVATION

East Abutment of E. B. Bridge & West Abutment of W. B. Bridge As Shown
West Abutment of E. B. Bridge & East Abutment of W. B. Bridge Opposite Hand

Slope bridge seat 3/4" between beams 4'-0"



SECTION A-A

ELEVATION TABLE										
East Bound Bridge										
Elev.	A	B	C	D	E	F	G	H	I	J
W. Abut.	833.73	839.10	839.10	838.97	838.85	838.73	842.31	842.68		
E. Abut.	834.40	839.78	839.78	839.65	839.53	839.40	843.00	843.37		
N.W. Wing									843.70	843.67
S.W. Wing									843.32	843.29
N.E. Wing									844.38	844.36
S.E. Wing									844.02	844.00
West Bound Bridge										
W. Abut.	833.73	839.10	839.10	838.97	838.85	838.73	842.31	842.68		
E. Abut.	834.40	839.78	839.78	839.65	839.53	839.40	843.00	843.37		
N.W. Wing									843.32	843.29
S.W. Wing									843.70	843.67
N.E. Wing									844.02	844.00
S.E. Wing									844.38	844.36

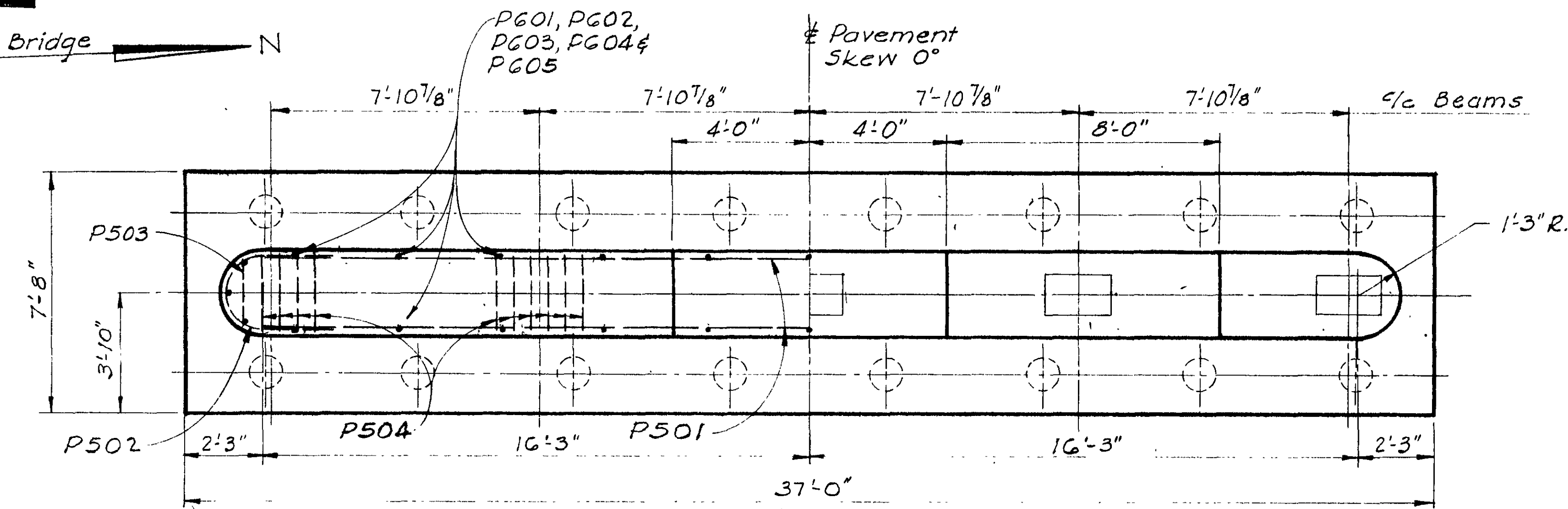
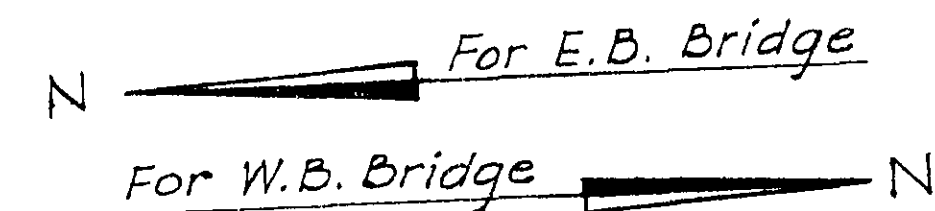
EMBANKMENT & EXCAVATION:
All earth fill around abutments shall be made full height of earth bench. Excavation shall then be made for the abutment cap and wingwall footer, after which piling shall be driven.

POURING BACKWALL:
Concrete for backwall shall not be placed until after steel work is erected. Steel end finish shall be used as a template for the top of the backwall.

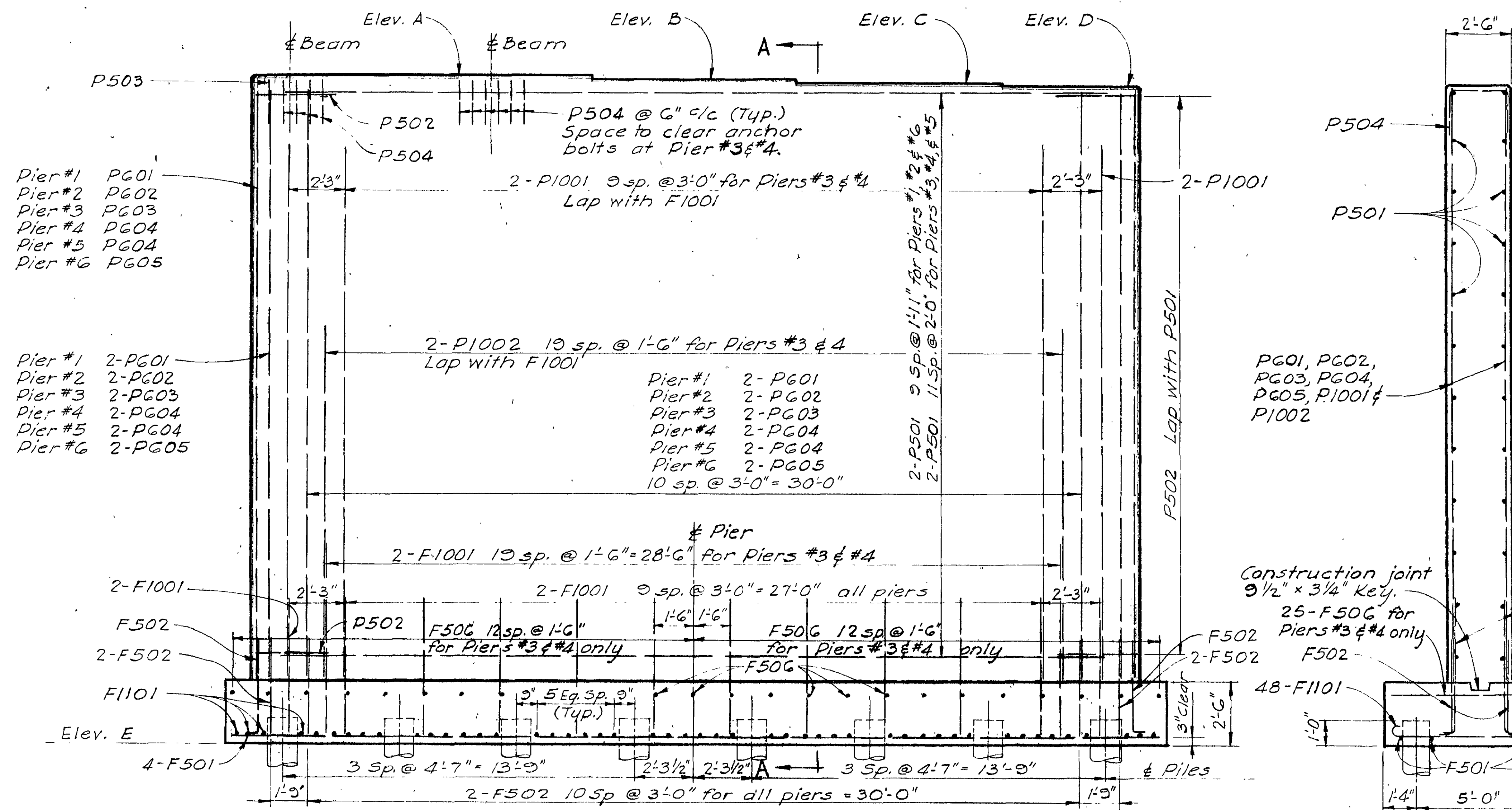
ALDEN E. STILSON & ASSOCIATES LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

ABUTMENT DETAILS
BRIDGE NO. CL-40R-17
U.S. 40 OVER MAD RIVER AT OSBORN RD.
CLARK COUNTY
SEC. CLA-40R-0.00 STA. 93+75.00

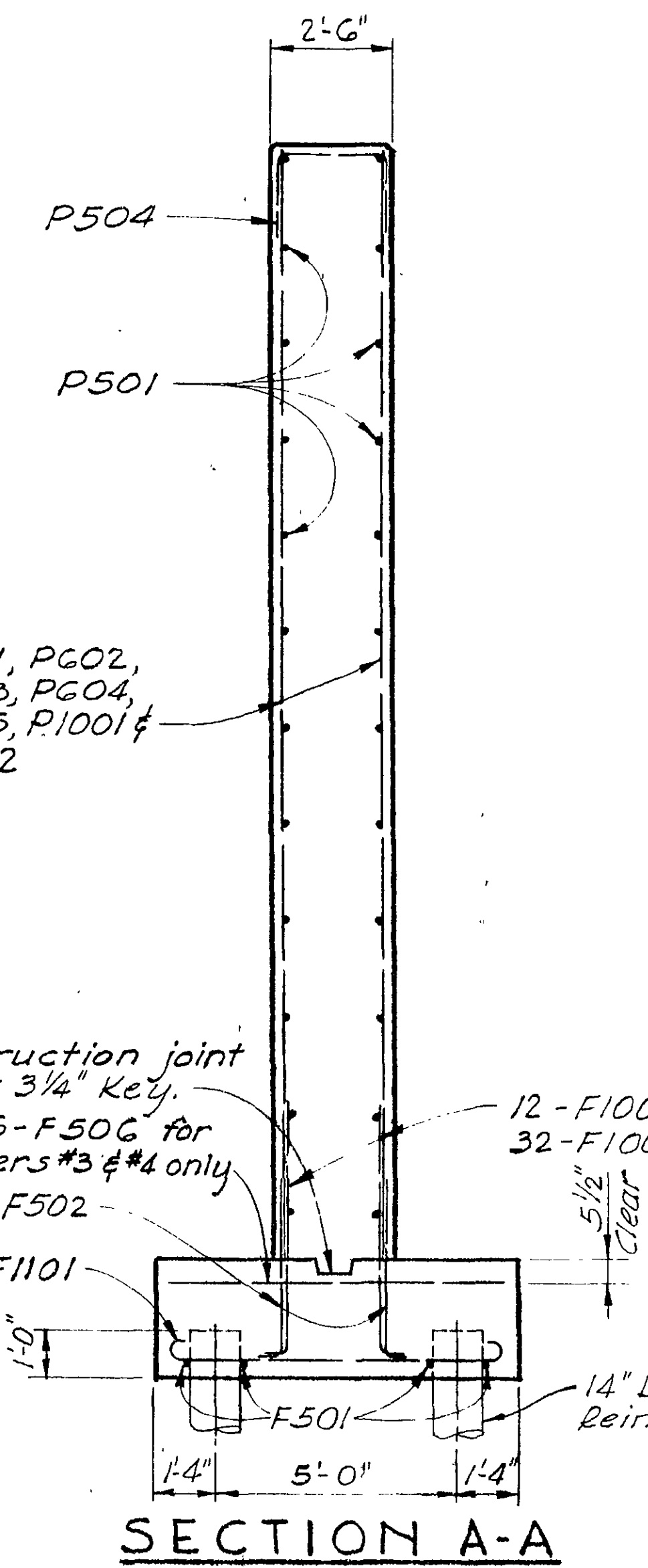
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
INNES	INNES		J.B.E.	TLU		



PLAN



ELEVATION



SECTION A-A

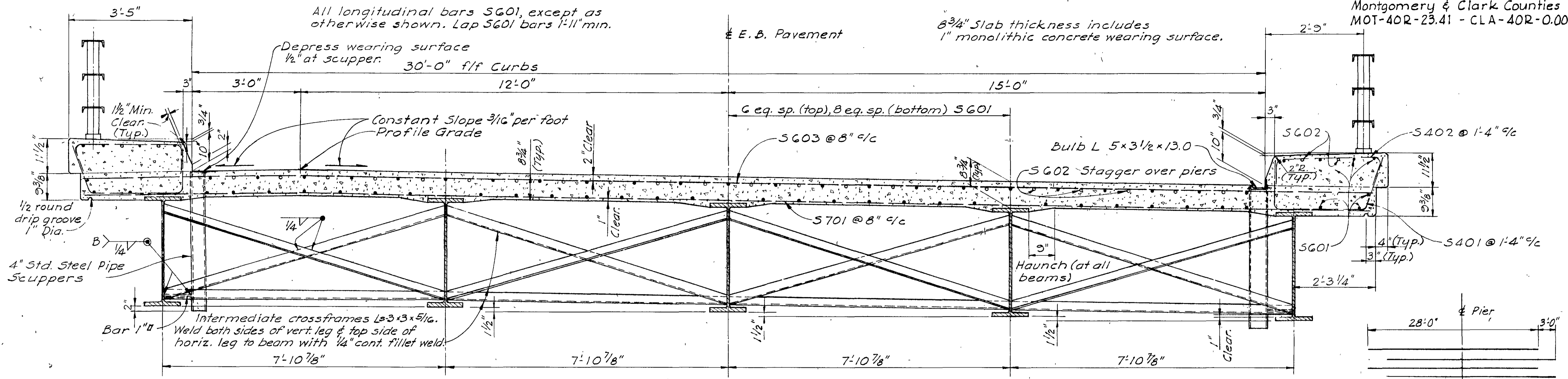
Pier No	Elevation				
	A	B	C	D	E
1	838.89	838.77	838.65	838.52	818.00
2	839.15	839.02	838.90	838.78	818.00
3	839.38	839.26	839.13	839.01	813.50
4	839.52	839.40	839.28	839.15	813.50
5	839.56	839.44	839.32	839.19	813.50
6	839.50	839.37	839.25	839.13	818.00

NOTE:
All details and dimensions apply to all piers, unless otherwise noted.

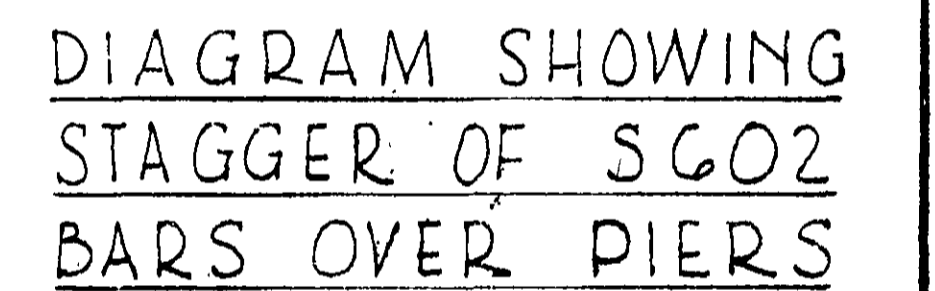
ALDEN E. STILSON & ASSOCIATES LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

PIER DETAILS
BRIDGE NO. CL-40R-17
U.S. 40 OVER MAD RIVER AT OSBORN RD.
CLARK COUNTY
SEC. CLA-40R-17 STA. 73+75.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
INNES	INNES		J.B.E	TLU		



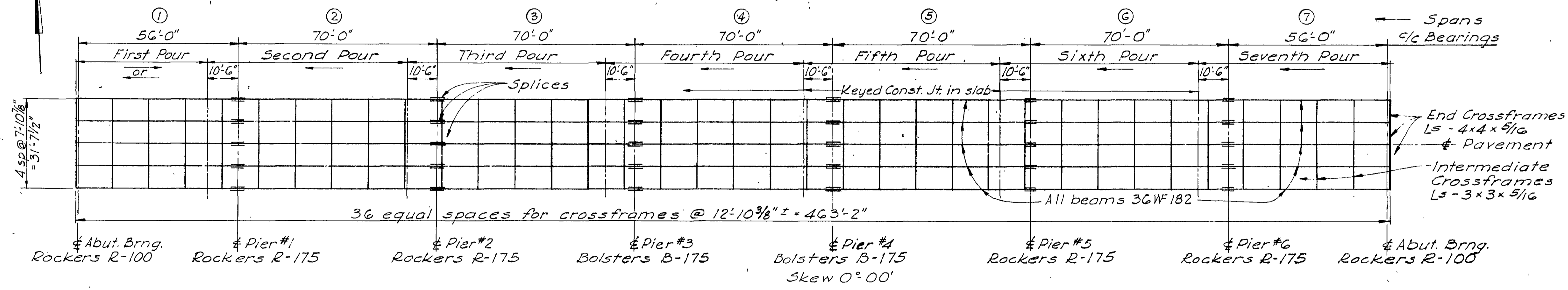
TRANSVERSE SECTION
Thru E.B. Bridge (W.B. Bridge Opposite Hand)



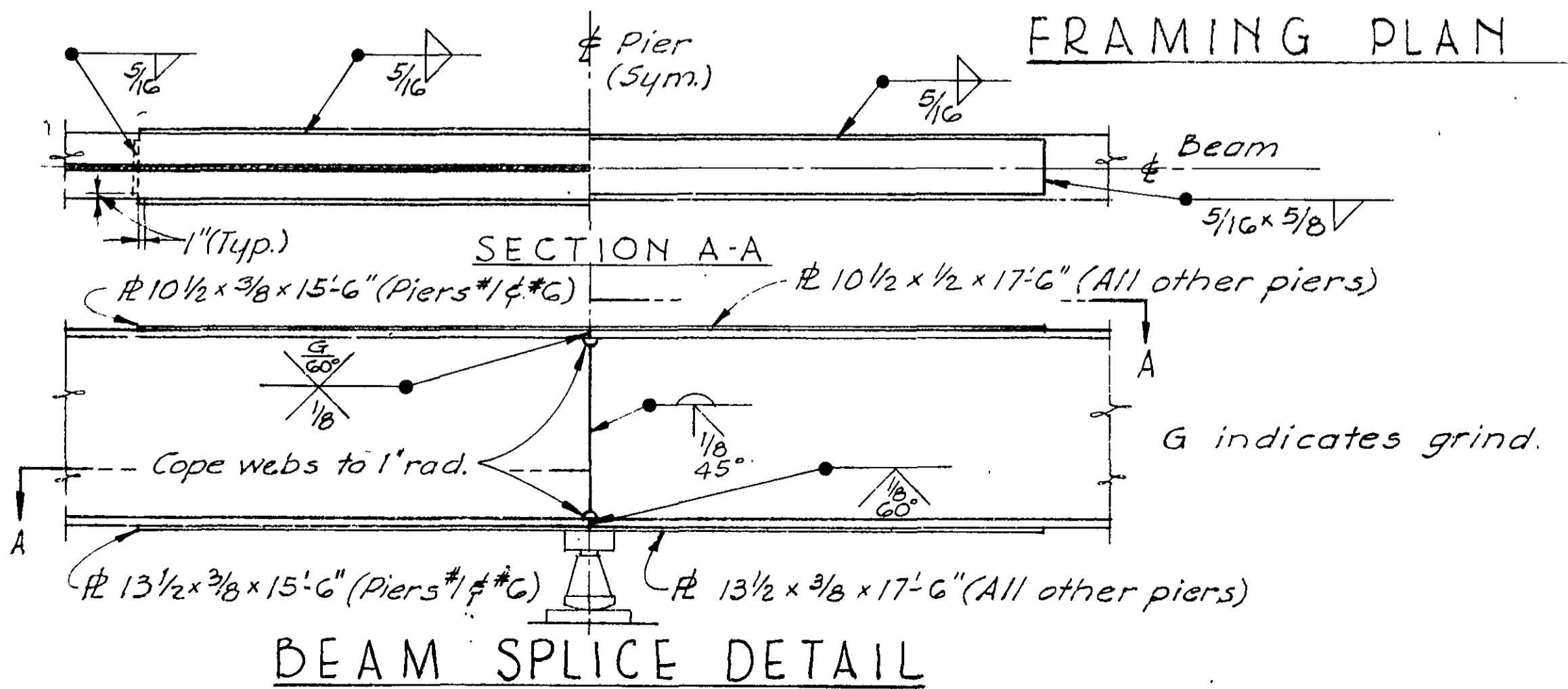
Beam Splice Welding Procedure:

1. Raise end of beams 1/8" at abut. & 1 5/16" at Pier #3.
2. Butt weld beam flanges and web at Piers #1 & 2.
3. Weld top & bottom splice plates at Piers #1 & 2.
4. Lower beam at Abutment & Pier #3.
5. Raise ends of beams 1/8" at Pier #4 then proceed as in steps 2, 3, and 4 above.
6. Make succeeding splices in the same manner as step 5, raising the ends of the beams 1/8" at the piers and 3/4" at the abutment.

FUTURE WIDENING: The transverse section shown is designed to facilitate future widening.



Location	Outside Beams Span							Inside Beams Span						
	1	2	3	4	5	6	7	1	2	3	4	5	6	7
Deflection due to weight of steel	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16
Deflection due to remaining dead load	5/16	3/8	3/8	3/8	3/8	3/8	5/16	1/4	5/16	3/16	3/16	5/16	5/16	1/4
Camber required for vertical curve	0	0	1/16	1/8	1/8	1/8	0	0	1/16	1/8	1/8	1/8	1/8	0
Sum of deflection and camber	3/8	7/16	1/2	9/16	9/16	9/16	1/2	5/16	3/8	7/16	1/2	1/2	1/2	7/16
Required shop camber	None - All curved beams will be placed with convex flange up.													



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

SUPERSTRUCTURE DETAILS
BRIDGE NO. CL-40R-17
U.S. 40 OVER MAD RIVER AT OSBORN RD.
CLARK COUNTY
SEC. CLA-40R-0.00 STA. 93+75.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
IMNES	IMNES		J.B.E.	TLU		10-6-55

REINFORCING

Mark	Nº	Length	Weight	Type	"A"	"B"	"C"	"D"	"E"	Shape
SUPERSTRUCTURE										
S401	696	4-10	2247	6	0-7	1-4	2-6	1-3		bt
S402	696	4-1	1897	4	0-3	0-8	2-11	0-8		bt
S601	780	40-4	47248							st
S602	156	28-0	6561							st
S603	695	35-10	37406							st
S701	695	35-10	50904							st
PIERS										
F501	24	36-8	918							st
F502	168	4-2	730	1	0-8	3-8				bt
F506	50	7-4	382							st
F1001	224	6-7	6342	1	1-5	5-6				bt
F1101	288	10-6	16067	3	7-4					bt
P501	132	32-6	4474							st
P502	132	7-0	964	7	0-11 5/8	1-11	3-2			bt
P503	12	5-7	70	1		2-0	1-10	2-0		bt
P504	156	5-11	964	1		2-0	2-2	2-0		bt
P601	28	17-10	750							st
P602	28	18-1	760							st
P603	28	22-10	960							st
P604	56	23-0	1935							st
P605	28	18-5	775							st
P1001	48	20-9	4286							st
P1002	80	13-9	4733							st

STEEL

Mark	Nº	Length	Weight	Type	"A"	"B"	"C"	"D"	"E"	Shape
ABUTMENTS										
A501	48	13-6	675	4	1-2	4-7	4-7	4-7		bt
A502	80	7-2	598	6	0-6	2-0	3-5	2-0		bt
A503	56	7-5	434	1		3-0	1-8	3-0		bt
A504	12	34-2	427							st
A505	48	15-1	755	2	5-0	1-5	6-3	0-11	2-0	bt
A506	4	11-6	48	1		4-9	2-3	4-9		bt
A507	4	11-2	47	1		4-7	2-3	4-7		bt
A508	4	10-10	45	1		4-5	2-3	4-5		bt
A509	4	10-2	42	1		4-1	2-3	4-1		bt
A510	16	8-4	139							st
A511	24	3-5	86							st
A512	12	8-11	112	1	2-6	6-7				bt
A513	4	7-10	32	1	2-6	6-6				bt
A514	4	6-9	28	1	2-6	4-5				bt
A515	4	4-6	19	1	1-4	3-4				bt
A516	8	6-5	54	1	1-7	5-0				bt
A517	4	5-4	22	1	1-7	3-11				bt
A518	4	4-3	18	1	1-7	2-10				bt
A519	4	2-0	8	1	0-5	1-9				bt
A520	8	11-3	95	1	2-0	9-5				bt
A521	8	9-11	82	1	2-0	8-0				bt
A522	4	8-4	34	1	2-0	6-5				bt
A523	4	6-11	29	1	2-0	5-0				bt
A524	4	11-2	47	5	1-9 3/8	1-0	2-10	7-4		bt
A525	4	8-10	37							st
A526	4	9-2	39							st
A527	4	9-9	41	5	2-0 3/8	1-0	3-2	5-7		bt
A901	24	35-10	2924							st
F503	16	9-10	164	1		3-11	2-3	3-11		bt
F504	8	10-6	88	1		3-1	2-4	5-4		bt
F505	8	3-0	25							st
R501	4	6-11	29	1		3-4	0-6	3-4		bt
R502	4	6-9	28	1		3-3	0-6	3-3		bt
R503	4	5-7	23	1		2-8	0-6	2-8		bt
R504	4	4-9	20	1		2-3	0-6	2-3		bt
R505	4	3-3	14	1		1-6	0-6	1-6		bt
R506	8	4-11	41	5	5-9 3/8	1-0	2-11	1-0		bt
R507	8	8-8	72	5	5-9 3/8		4-5	4-3		bt
R508	8	7-0	58							st
R509	8	8-1	67							st
REPLACEMENT STEEL										
RE401	1	5-3	4							st
RE501	1	5-7	6							st
RE601	5	5-11	44							st
RE701	3	6-3	38							st
RE901	1	6-10	23							st
RE1001	1	7-3	31							st
RE1101	1	7-7	40							st

LIST

Bending Diagram

Type 1 Type 2

Type 3 Type 4

Type 5

Type 6

Type 7

Note: In the reinforcing steel bar marks, the first digit where three digits are used and the first two where four are used is the bar number which indicates the size of the bar.

ESTIMATED QUANTITIES							
ITEM	TOTAL	UNIT	DESCRIPTION	ABUT.	PIER	SUPERS.	GENERAL
WESTBOUND STRUCTURE							
E-2	Lump	Lump	COFFERDAMS, CRIBS AND SHEETING				Lump
E-2	854	Cu. Yd.	UNCLASSIFIED EXCAVATION	65	789		
E-3	26333	Cu. Yd.	CHANNEL EXCAVATION				26333
S-1	566	Cu. Yd.	CLASS 'C' CONCRETE, SUPERSTRUCTURE			566	
S-1	99	Cu. Yd.	CLASS 'E' CONCRETE, ABUTMENTS	99			
S-1	153	Cu. Yd.	CLASS 'E' CONCRETE, PIER FOOTINGS		153		
S-1	403	Cu. Yd.	CLASS 'E' CONCRETE, PIER WALLS		403		
S-4	199105	Lb.	REINFORCING STEEL	7546	45110	146263	186
S-7	494700	Lb.	STRUCTURAL STEEL			494700	
S-8	494700	Lb.	FIELD PAINTING OF STRUCTURAL STEEL			494700	
S-14	928	Lin. Ft.	RAILING, STEEL			928	
S-16	Lump	Lump	FIRST TEST PILE				Lump
S-18	3878	Lin. Ft.	14" CAST-IN-PLACE REINFORCED CONCRETE PILING	726	3152		
I-10	717	Cu. Yd.	DUMPED ROCK FILL				717
I-10	912	Sq. Yd.	RIPRAP, TYPE A (REINFORCED CONCRETE)				912
I-10	138	Sq. Yd.	RIPRAP, TYPE A (REINFORCED CONCRETE) FOR CUT-OFF WALLS				138
EASTBOUND STRUCTURE							
E-2	Lump	Lump	COFFERDAMS, CRIBS AND SHEETING				Lump
E-2	925	Cu. Yd.	UNCLASSIFIED EXCAVATION	136	789		
S-1	566	Cu. Yd.	CLASS 'C' CONCRETE, SUPERSTRUCTURE			566	
S-1	99	Cu. Yd.	CLASS 'E' CONCRETE, ABUTMENTS	99			
S-1	153	Cu. Yd.	CLASS 'E' CONCRETE, PIER FOOTINGS		153		
S-1	403	Cu. Yd.	CLASS 'E' CONCRETE, PIER WALLS		403		
S-4	199105	Lb.	REINFORCING STEEL	7546	45110	146263	186
S-7	494700	Lb.	STRUCTURAL STEEL			494700	
S-8	494700	Lb.	FIELD PAINTING OF STRUCTURAL STEEL			494700	
S-14	928	Lin. Ft.	RAILING, STEEL			928	
S-16	Lump	Lump	FIRST TEST PILE				Lump
S-18	3878	Lin. Ft.	14" CAST-IN-PLACE REINFORCED CONCRETE PILING	726	3152		

NOTE - ~~THE WESTBOUND STRUCTURE ONLY SHALL BE CONSTRUCTED UNDER THIS CONTRACT.~~
 THE REINFORCING STEEL BAR LIST IS FOR THE WESTBOUND STRUCTURE ONLY.
 THE REINFORCING STEEL BAR LIST FOR THE EASTBOUND STRUCTURE IS IDENTICAL TO THAT LISTED HEREON.

SPIRALS - HOT ROLLED						
Mark	Nº	Length	Core	Pitch	Turns	Weight

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

REINFORCING STEEL LIST
AND ESTIMATED QUANTITIES
BRIDGE N° CL - 40R - 17
U. S. 40 OVER MAD RIVER AT OSBORN RD.
CLARK COUNTY
SEC. CL-40R-0.00 STA. 93+75.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
INNES			J.B.E.	TLU	