

#2079

STATE OF OHIO
JUL 8 1982

F.H.W.A. REGION	STATE	PROJECT	
5	OHIO	IR-475-7(46)196	1 72

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

WOO/LUC- 475-3.86/0.00

**CITY OF MAUMEE
SPRINGFIELD TOWNSHIP
MONCLOVA TOWNSHIP
PERRYSBURG TOWNSHIP
WOOD COUNTY - LUCAS COUNTY**

DESIGN DESIGNATION

Current A.D.T.(1987) = 39850
Design Year A.D.T.(1997) = 45430
D.H.V. = 4384
D = 55%
T = 26%
V = 70 MPH.
Legal Speed = 55 MPH.

CONVENTIONAL SIGNS

County Line _____
Township Line _____
Section Line _____
Corporation Line _____ or _____
Fence Line (existing)-x-(proposed)x-x
Center Line 352 353
Trees (o), Stumps (x), (to be removed) (x)
Utility Poles: Telephone (f), Power (f), Light (f)

INDEX OF SHEETS

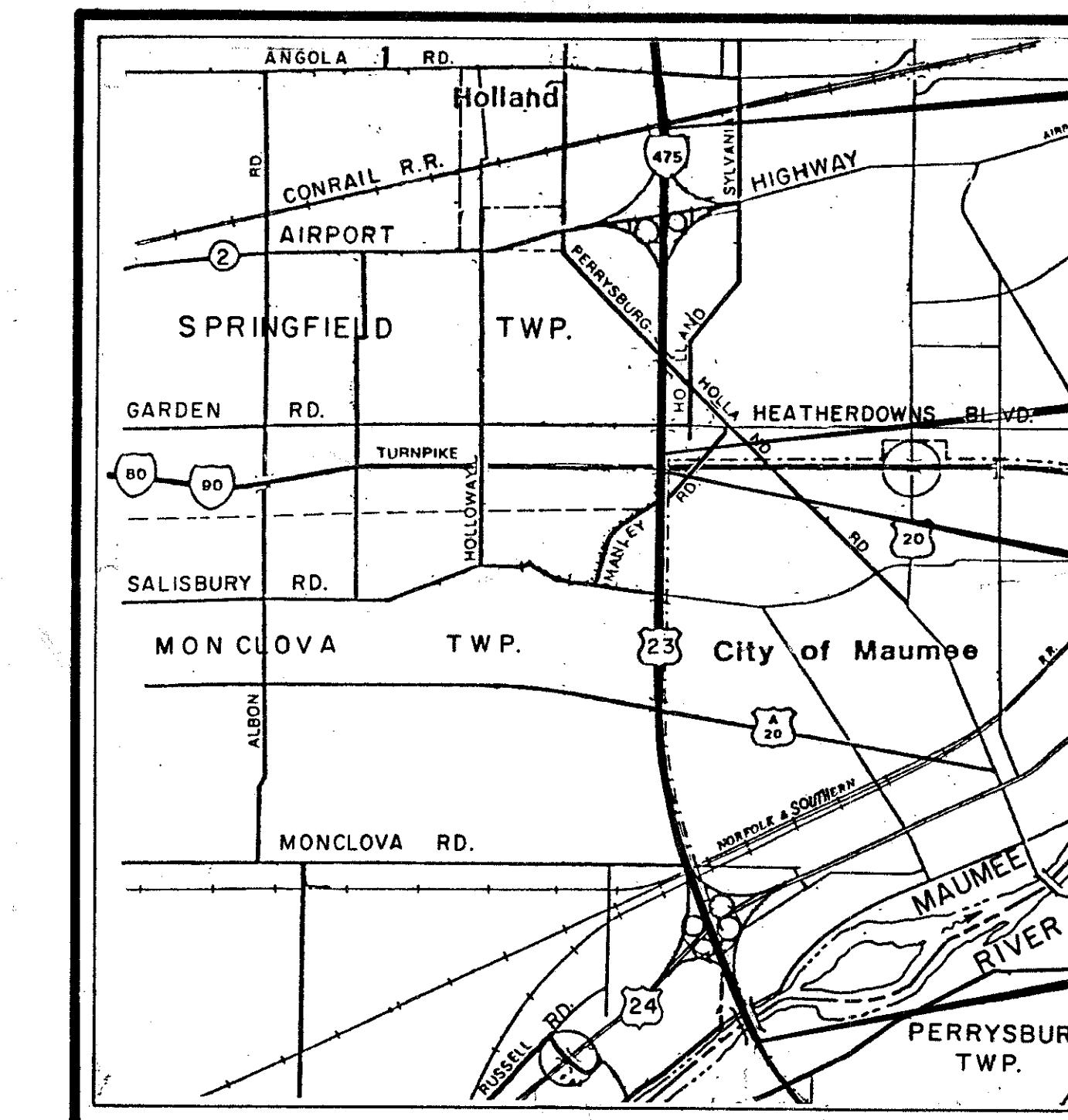
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SHEETS ADDED: 6A, 13A, 18A, 43A

LINE DATA

BEGIN PROJECT STA. 4+64.90
COUNTY LINE STA. 0+00.00
COUNTY LINE STA. 478+96.20
SUSPEND PROJECT STA. 314+64.10
RESUME PROJECT STA. 303+64.93
END PROJECT STA. 203+80.25
NET LENGTH OF PROJECT 268 81.68 L.F. = 5.09 MILES
BEGIN WORK STA. 5+14.90
COUNTY LINE STA. 0+00.00
COUNTY LINE STA. 478+96.20
SUSPEND WORK STA. 312+64.10
RESUME WORK STA. 305+64.93
END WORK STA. 203+20.00
ADD WORK (FROM SHEET 2) 20.00 L.F.
NET LENGTH OF WORK 274 11.93 L.F. = 5.192 MILES

UNDERGROUND UTILITIES
Two Working Days
BEFORE YOU DIG
Call... 800-362-2764 (Toll free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY



LOCATION MAP

SCALE IN MILES
0 1 2

Portion to be improved _____
State & Federal Routes _____
Other Roads _____

SCALES
Plan _____
Profile Horizontal _____ Vertical _____
Cross Section:Horizontal _____ Vertical _____

SUPPLEMENTAL SPECIFICATIONS			
847	10-17-83	949	9-26-86
947	10-17-83	953	8-21-80
812	11-7-83	824	10-8-82
846	11-24-86		
806	11-24-86		
906	11-24-86		
845	2-25-86		
849	12-24-85		
933	2-10-87		

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS							
AS-1-81	11-27-81	F-1	11-10-83	HW-4B	4-1-80	TC-12.30	1-20-84
BP-5	1-11-85	F-3	5-1-76	I-3A4B	4-1-80	TC-21.20	1-20-84
BP-7	12-6-76	GR-1	1-11-85	MC-4	7-26-76	TC-22.10	3-1-79
EXJ-2-B1	4-2-84	GR-2B	2-5-82	MC-6	1-30-84	TC-22.20	3-1-79
BP-13	5-8-87	GR-3A	2-5-82	MC-9	1-30-84	TC-35.10	8-29-84
CB-2-2A&B	5-1-79	GR-3B	1-21-85	HW-4A	4-1-80	TC-41.10	8-29-84
CB-4	11-10-83	GR-4	2-5-82	MC-3A	1-11-85	TC-41.20	3-26-79
CB-5	11-10-83	GR-4A	1-30-84	GR-3	1-21-85	TC-41.40	6-18-79
CB-8	11-10-83	GR-7	2-5-82	HL-30.22 & HI-50.11	5-1-87	TC-41.50	3-26-79
						MT-92.10	11-14-86

PLANS PREPARED BY
CHARLES L. BARBER & ASSOCIATES, INC.
CONSULTING ENGINEERS - TOLEDO, OHIO

Charles L. Barber 10/26/87
Date

Project: 19 Contract No.
Date of Letting

IR-475-7(46)196

LIMITED ACCESS

This improvement is especially designed for through traffic and has been declared a limited access highway or freeway by action of the Director in accordance with the provisions of Section 5511.02 of the Revised Code of Ohio.

1987 SPECIFICATIONS

The standard specifications of the State of Ohio, Department of Transportation, 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 on the plans and estimates.

Approved R. L. Germann
Date 10-29-87 District Deputy Director of Transportation

Approved Walter J. Gestring
Date 12-4-87 Engineer, Bureau of Bridges and Structural Design

Approved George C. Downing
Date 1-27-88 Chief Engineer, Planning and Design

Approved Donald C. Heast
Date 1-27-88 Director, Department of Transportation

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

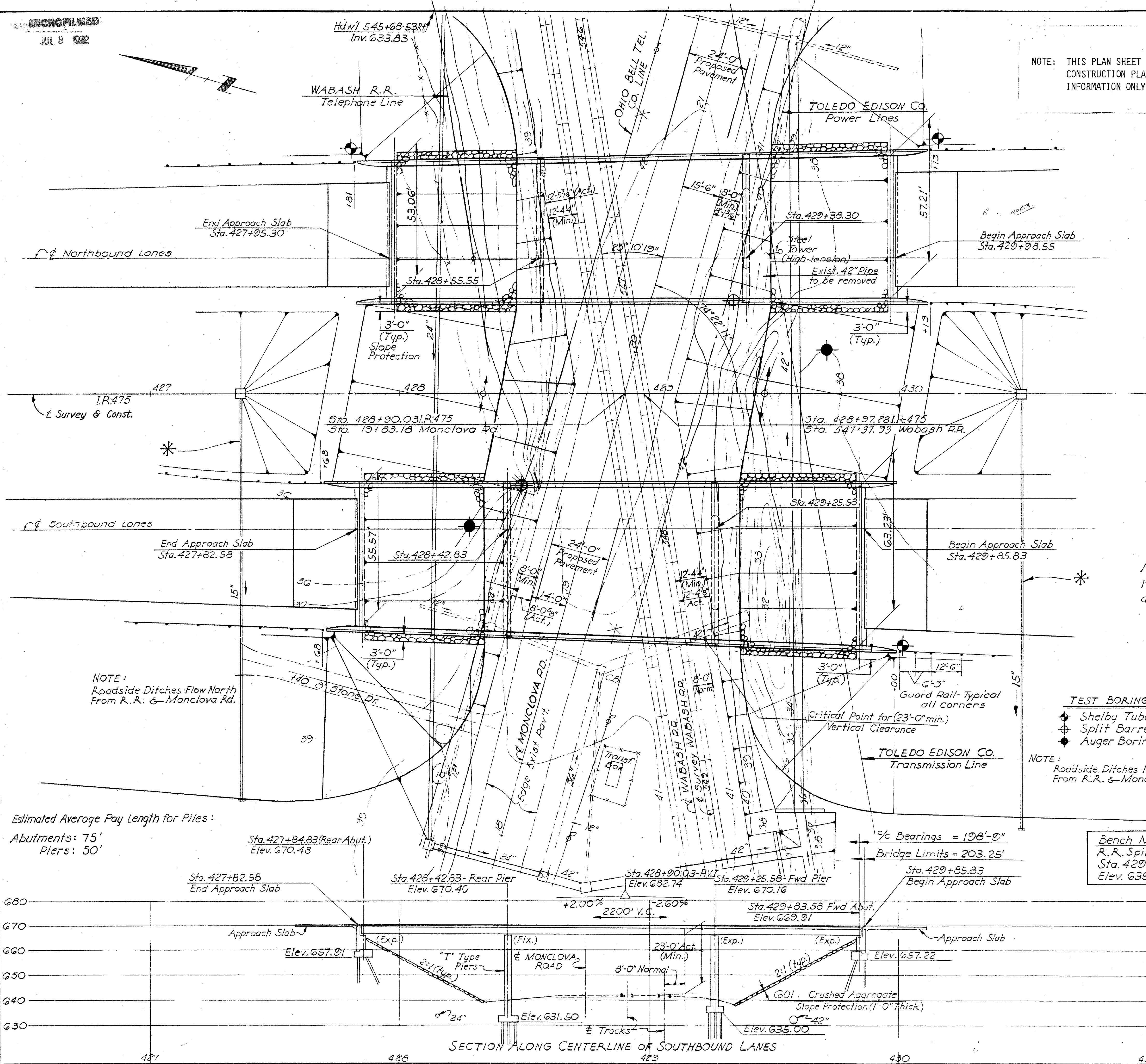
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JUL 8 1982

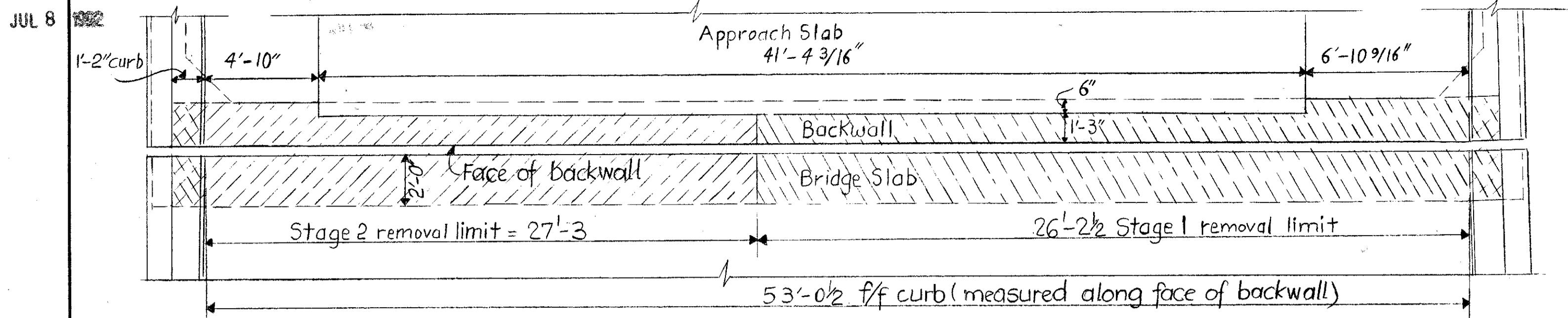
PROJECT
IR-475-7(46)196

58
72

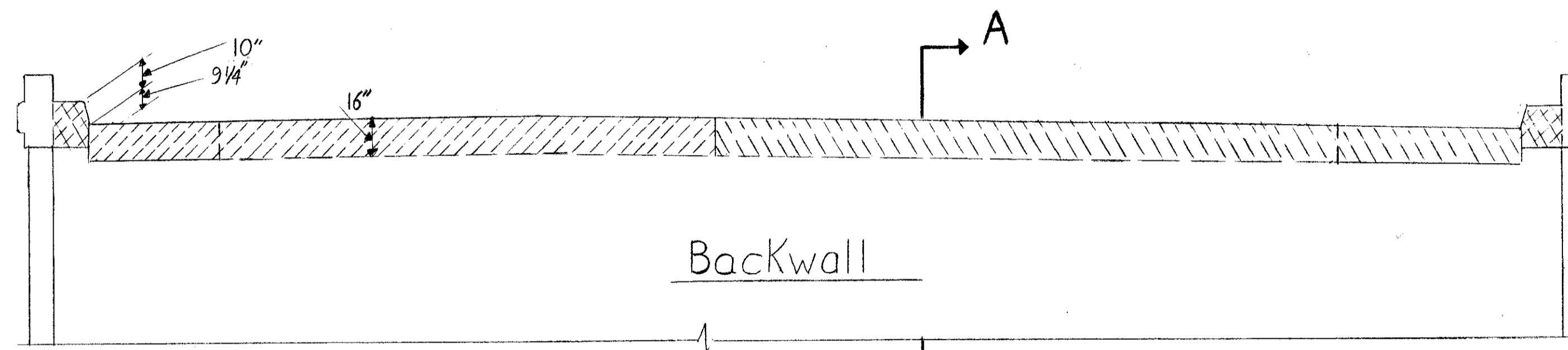
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NOTE: THIS PLAN SHEET FROM ORIGINAL CONSTRUCTION PLANS AND IS FOR INFORMATION ONLY.

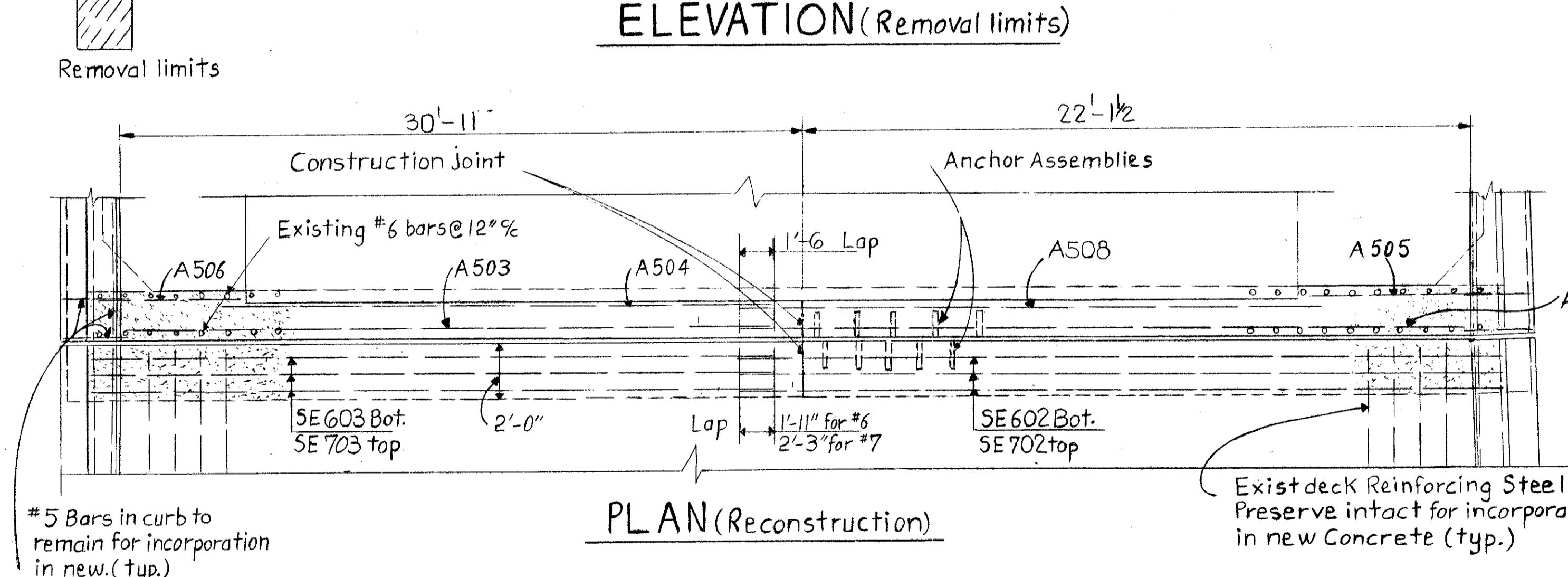




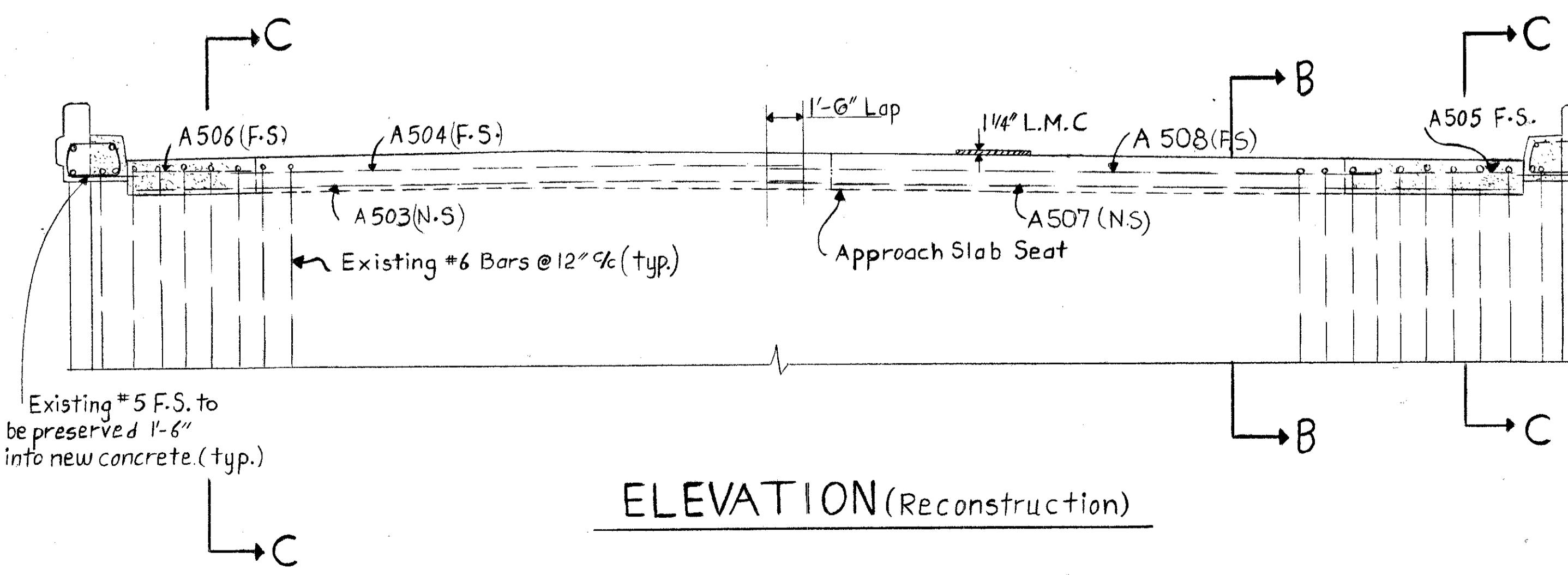
PLAN (Removal limits)



ELEVATION (Removal limits)



PLAN (Reconstruction)

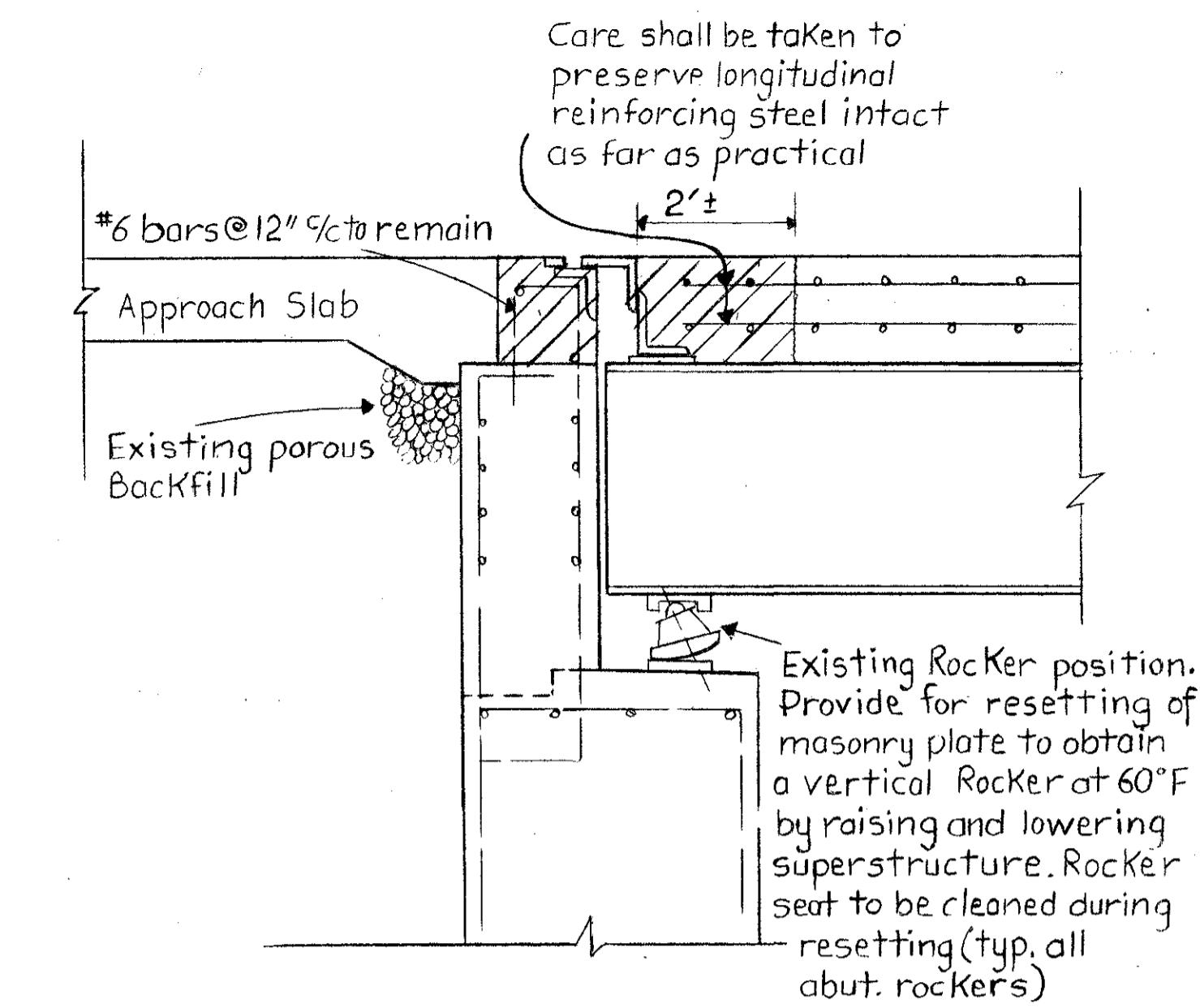


ELEVATION (Reconstruction)

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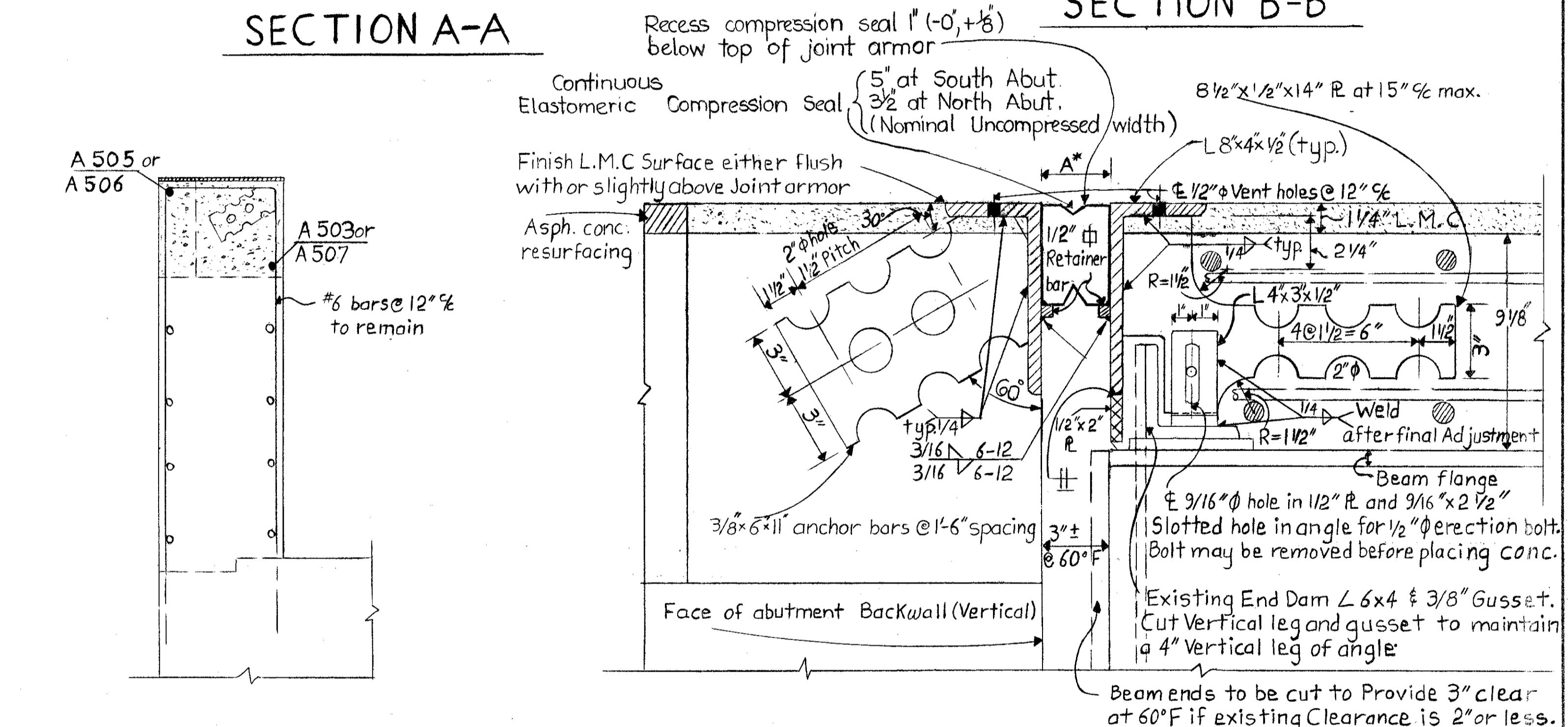
F.H.W.A. REGION	STATE	PROJECT	60 72
5	OHIO	IIR-475-7(46)06	

See detail "B"



SECTION A-A

SECTION B-B



SECTION C-C

DETAIL-B
(All abutments)

* Dimension "A" Continuous Compression Seal Joint opening at time of installation
Shall be determined from the following table:

TABLE I	Temp. at Time of Installation °F	20°	30°	40°	50°	60°	70°	80°	90°
		3 1/2"	3 3/8"	3 1/4"	3 1/8"	3"	2 7/8"	2 3/4"	2 5/8"
	Dimension A (South Abut.)	2 3/8"	2 1/4"	2 3/16"	2 1/8"	2 1/8"	2 1/8"	2 1/8"	2"
	Dimension A (North Abut.)	2 3/8"	2 1/4"	2 3/16"	2 1/8"	2 1/8"	2 1/8"	2 1/8"	2"

All Welding Shall conform to A-W-S and AASHTO Specifications for welded Highway and Railway Bridges

CHARLES L BARBER & ASSOCIATES INC.
ENGINEERS • ARCHITECTS
TOLEDO, OHIO

3/6

EXPANSION JOINT REPLACEMENT
AT NORTH ABUTMENT
NORTHBOUND STRUCTURE

BRIDGE No. LUC-475-0093 L&R.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
R.J.M.	R.M.		T.W.D. R.J.M.	R.H.B	Feb,87	

ENTROPY / 11

JUL 8 19

Approach Slab to remain
45' 7"

45'-7"

Stage I Removal limit = 29'-1

Stage 2 Removal limits = 27'

57'-2 $\frac{1}{16}$ f/f curb (measured along face of backwall)

PLAN(Removal limits)

1

A technical drawing showing a horizontal pipe assembly. The pipe has a hatched pattern. At the top left, there is a vertical pipe section with a height of 10". A dimension of 9 1/4" is shown from the top of this vertical section to the top of the horizontal pipe. A dimension of 16" is shown from the bottom of the vertical section to the bottom of the horizontal pipe. A vertical line extends upwards from the center of the horizontal pipe.

ELEVATION (Removal limits)

Removal limits

26'-3 1/16 30'-11

Existing #6 bars @ 12" %c

(A 505) (A 502) (A 501)

1'-6 Lap

construction Joint

Anchor Assemblies

A 509 A 503 A 506

SE 601 Bot. SE 701 top

2'-0"

1'-11" for #6
2'-3" for #7

SE 603 Bot. SE 703 top

#5 Bars in curb to remain for incorporation in new. (typ.)

Exist. deck Reinforcing St
Preserve intact for incor in new concrete (typ.)

PLAN (Reconstruction)

A hand-drawn technical sketch of a bridge pier's longitudinal section. The pier has a rectangular base and a tapered top. Reinforcement bars are shown as vertical lines. Labels include: A 505 F.S. at the top left; A 502 and 1 1/4" L.M.C. near the top center; A 501(N-S) and Existing #6 Bars @ 12" % (typ.) along the left side; 1'-6 Lap for a horizontal splice; A 509 and Approach slab seat near the bottom center; A 503(N-S); and A 506 at the top right. An arrow labeled B points to the right edge of the pier.

ELEVATION (Reconstruction)

A hand-drawn technical sketch showing a cross-section of a bridge approach slab. The slab is supported by a masonry pier. A saw cut is being made into the slab at a depth of 2' ±. The sketch includes labels for the 'Approach Slab', '#6 bars @ 12" c/c to remain', 'Existing porous Backfill', and 'Existing Rocker position'. A note at the top right states: 'care shall be taken to preserve longitudinal reinforcing steel intact as far as practical.' A separate note on the right side provides instructions for resetting the masonry plate: 'Provide for resetting of masonry plate to obtain a vertical Rocker at 60° by raising and lowering Superstructure. Rocker seat to be cleaned during resetting (typ. all abut. Rockers)'.

SECTION A-A

SECTION B-B

Hand-drawn technical diagram of a bridge deck cross-section. The diagram shows a top curb, a bottom curb, and a central concrete slab. Reinforcement bars are shown as vertical lines and horizontal bars. Dimensions are labeled in feet and inches. Key dimensions include:

- Face of curb to Face of curb: 26'-7 1/16" and 30'-7 5/8".
- Width of the central slab: 25'-6" (17 spacings @ 1'-6").
- Width of the approach slab: 30'-0" (20 spacings @ 1'-6").
- Width of the transition slab: 25'-0" (24 spacings @ 1'-3").
- Vertical dimensions: 10", 5", 1/2 min., L 8x4x1/2", 1/2x2" bar, and various thicknesses like 6 1/2", 10 1/2", 27 1/8", 5 1/2", and 5".
- Reinforcement labels: PE 3/8x6x11" (typ.) anchor assemblies, PE 1/2x8 1/2x14" (typ.), 1/2x2" bar, and Dim. "A".

ABUTMENT ANGLE ALTERNATE:
Transverse joints in abutment angle shall be closely butted with a minimum of 6'-0 between joints. Anchor bars shall be spaced @ 1'-6" with one bar within 6" of each side of joints in angle.

Proposed End Dam (Southern Abutm.)

one out within 6" of each side of joints in angle.

$30'-8$

$20\text{ Spacings} @ 1'-6" = 30'-0$

$\Phi 3/8" \times 6" \times 11"$ (anchor assemblies)

$L 8" \times 4" \times 1/2$

$24\text{ Spacings} @ 1'-3" = 30'-0$

$30'-8$

$22'-4\frac{1}{2}$

$14\text{ Spacings} @ 1'-6" = 21'-0$

$\frac{1}{2}" \Phi$ Retainer bars

Dim. "A"

$\frac{1}{2}" \times 2"$ bar

$17\text{ Spacings} @ 1'-3" = 21'-3$

$22'-4\frac{3}{4}$

Face of curb

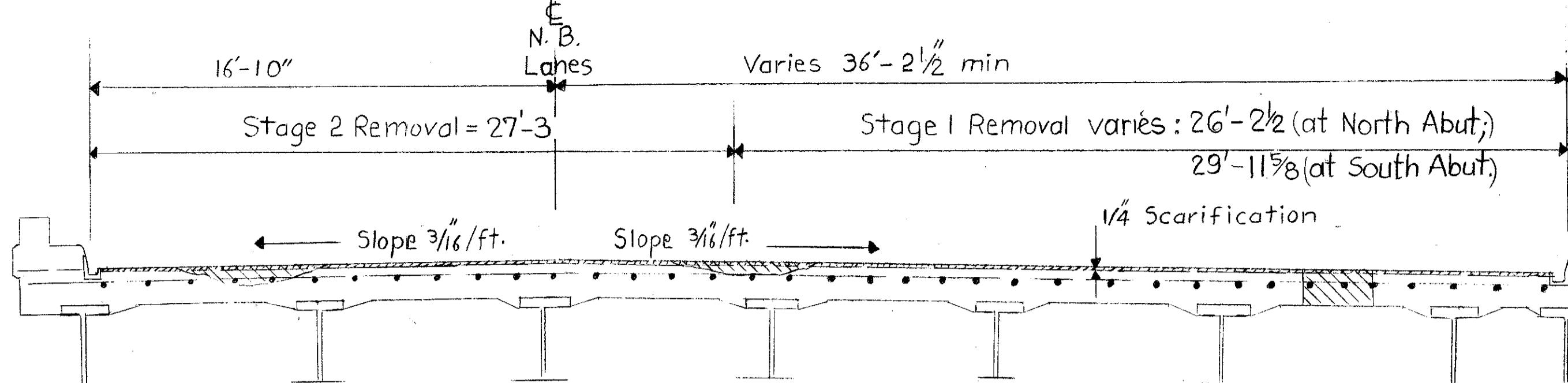
A
B
C
D

SECTION C-C

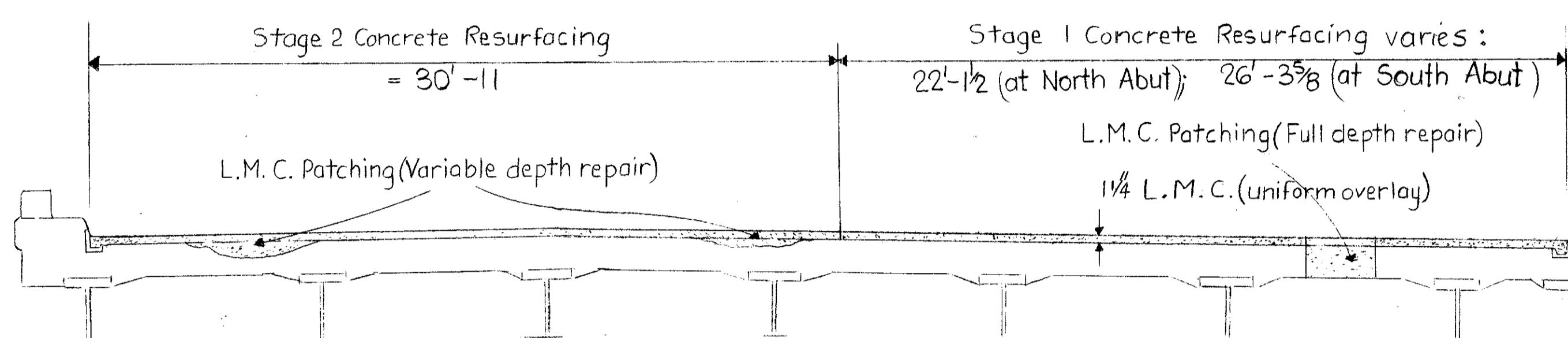
SECTION D-D

CHARLES L BARBER & ASSOCIATES INC.
ENGINEERS • ARCHITECTS
TOLEDO, OHIO

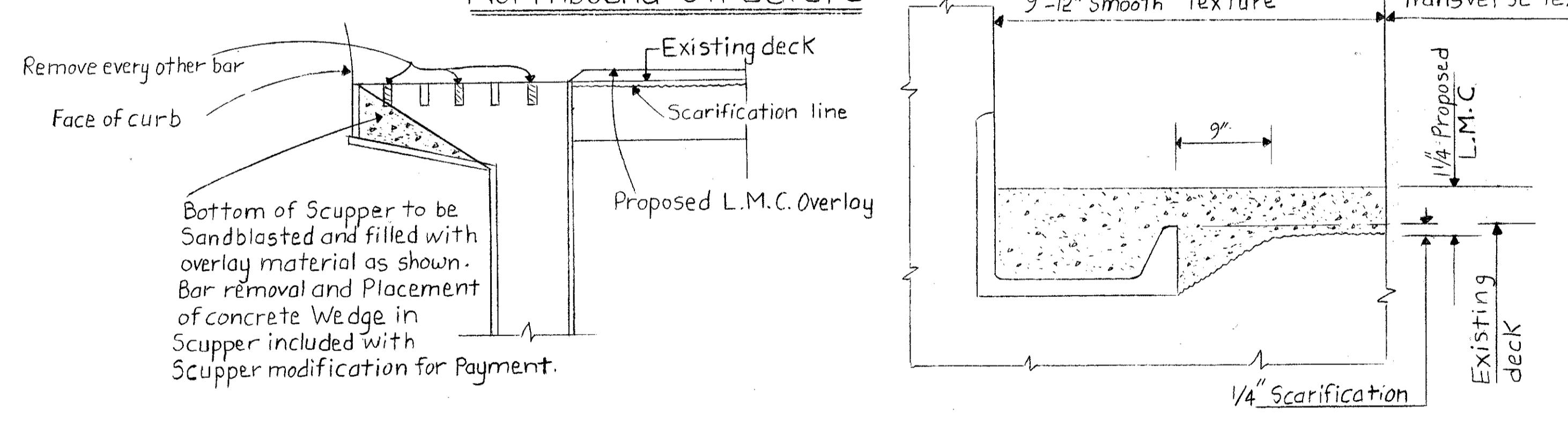
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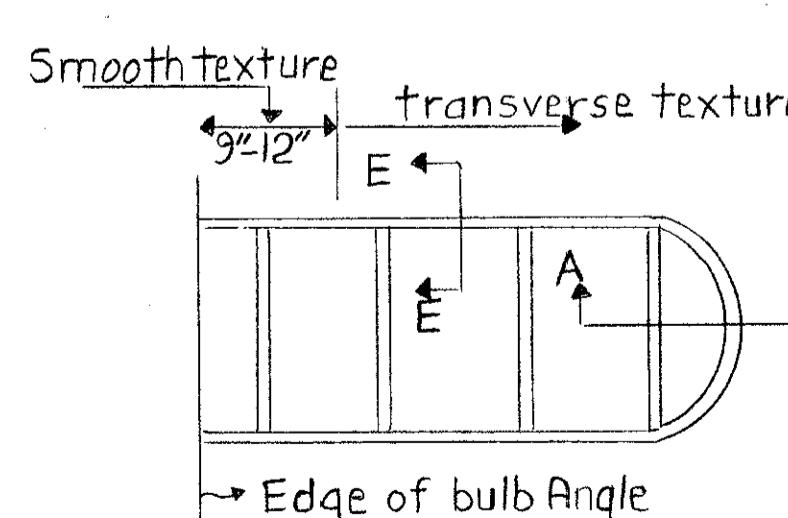
Typical Cross-Section (Concrete Removal)
Northbound Structure



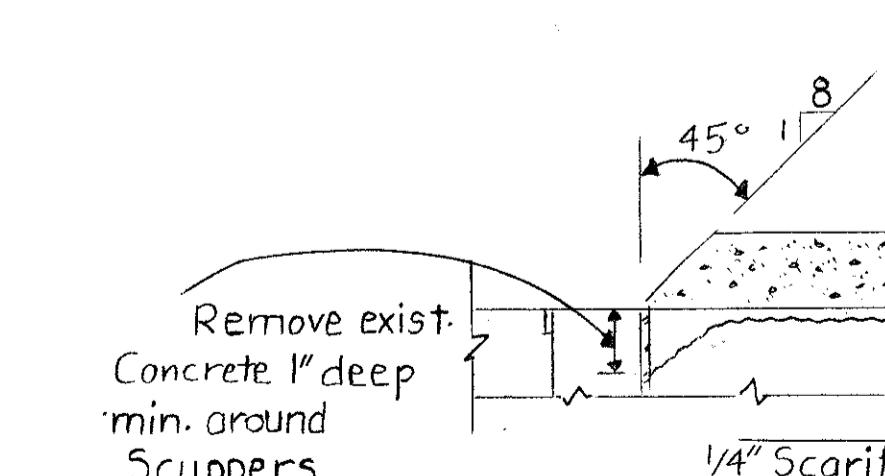
Typical Cross-Section (L.M.C. Replacement)
Northbound Structure



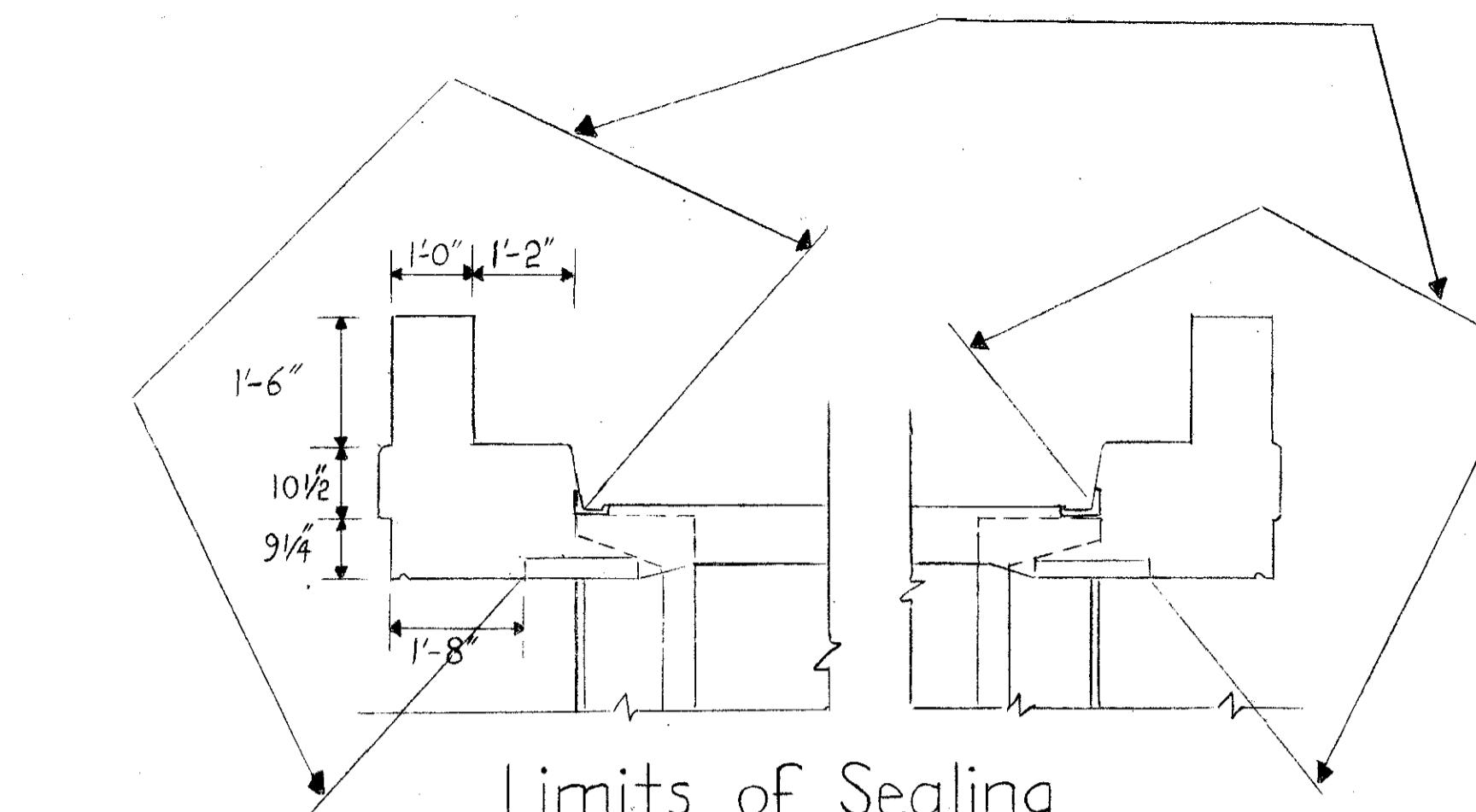
Scupper Modification



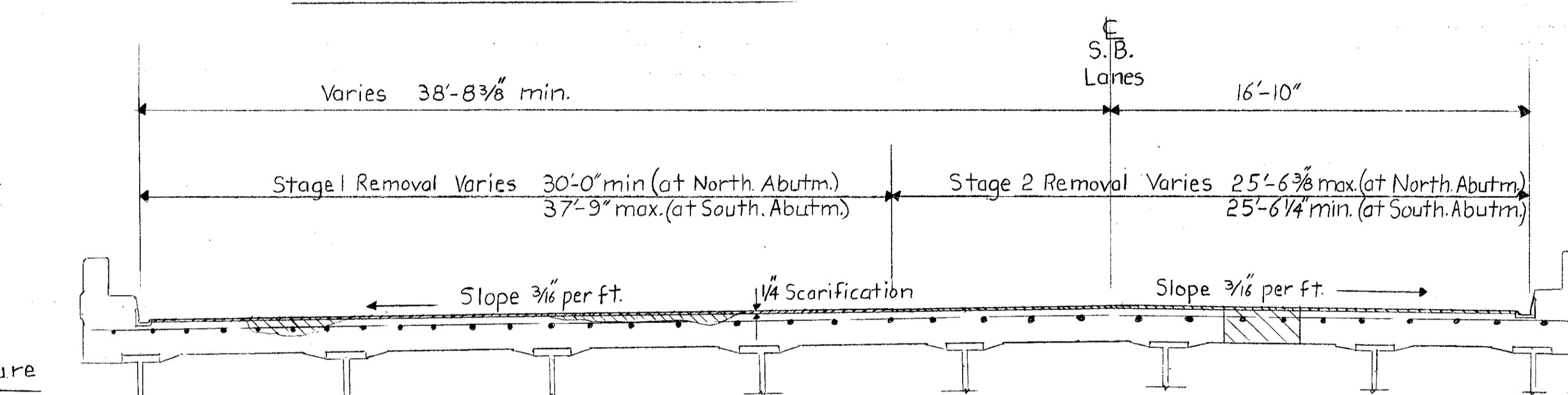
PLAN



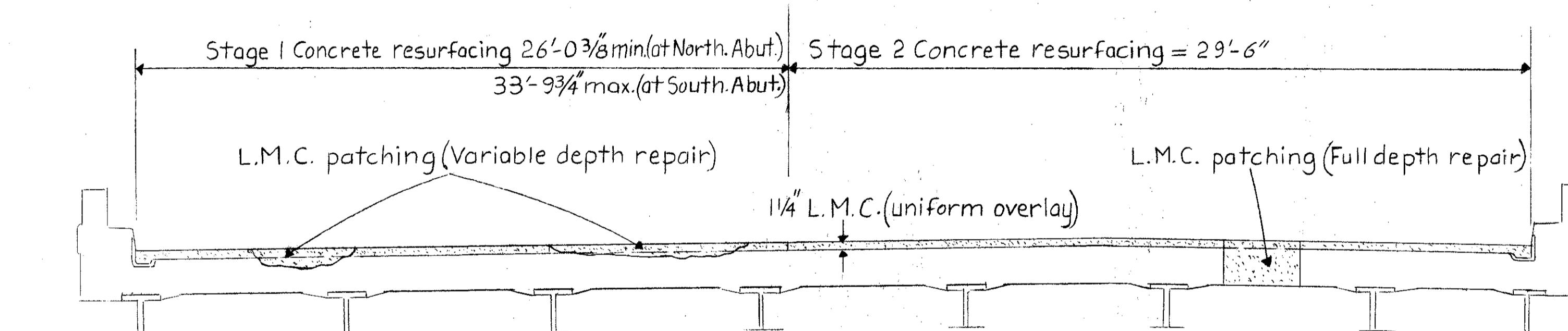
SECTION A-A
SECTION E-E



Limits of Sealing
Concrete Surfaces, Epoxy



Typical Cross-Section (Concrete Removal)
Southbound Structure



Typical Cross-Section (L.M.C. Replacement)
Southbound Structure

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
R.M.	R.M.		E.W.K.	R.H.B.	Feb 87	

SUPERSTRUCTURE DECK
REPAIR DETAILS
NORTH & SOUTHBOND STRUCTURE

BRIDGE No. LUC-475-0093 L.S.R.