

STATE OF OHIO DEPARTMENT OF TRANSPORTATION W00-75-3.01 (VARIOUS)

8105

W00-75-3.01 (VARIOUS) WOOD COUNTY	OHIO FHWA REGION 5 FEDERAL PROJECT
BR-40-92	1 116

IM-75-6 (78)

UNDERGROUND UTILITIES

TWO WORKING DAYS
BEFORE YOU DIG
CALL 800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

CITY OF BOWLING GREEN
BLOOM TOWNSHIP
CENTER TOWNSHIP
HENRY TOWNSHIP
PORTAGE TOWNSHIP
WOOD COUNTY

PROJECT DESCRIPTION

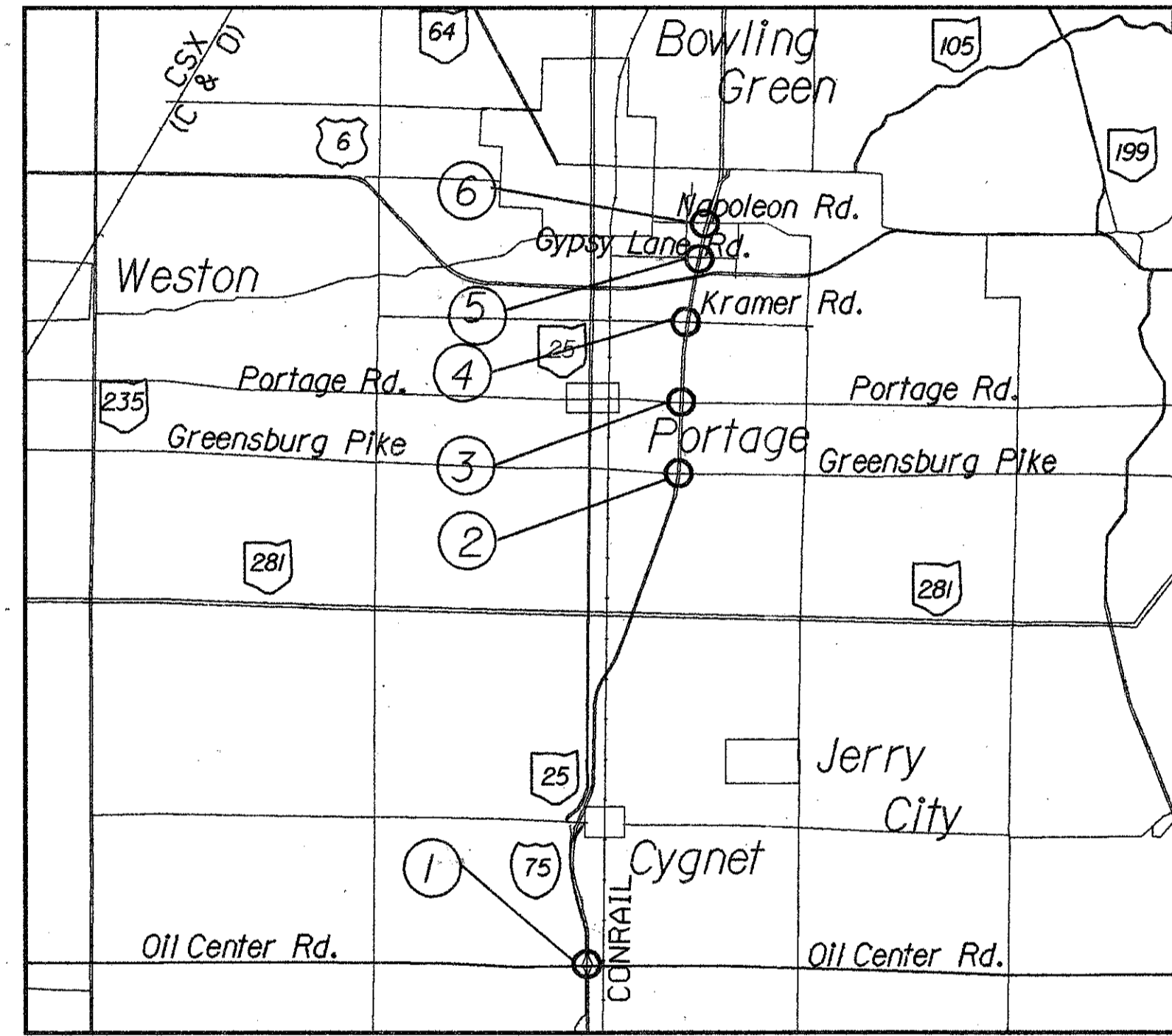
Rehabilitation of Bridges and Approach Roadways
for County Roads over I-75 From Oil Center Rd. (SLM 3.01)
to Napoleon Rd. (SLM 13.83).

CONVENTIONAL SIGNS

<p>County Line _____</p> <p>Township Line _____</p> <p>Section Line _____</p> <p>Corporation Line _____ or _____</p> <p>Fence Line (existing) — x — x — (proposed) — x — x —</p> <p>Center Line _____ 352 _____ 353</p> <p>Trees Stumps (to be removed) </p> <p>Utility Poles: Telephone , Power , Light </p>	<p>Limited Access (only) _____ LA _____</p> <p>Right of Way (only) _____ RW _____</p> <p>Limited Access & Right of Way _____ LA & RW _____</p> <p>Existing Right of Way _____</p> <p>Property Line (in existing fence) — x — x —</p> <p>Railroad _____ or _____</p> <p>Guardrail (existing) (proposed) </p>
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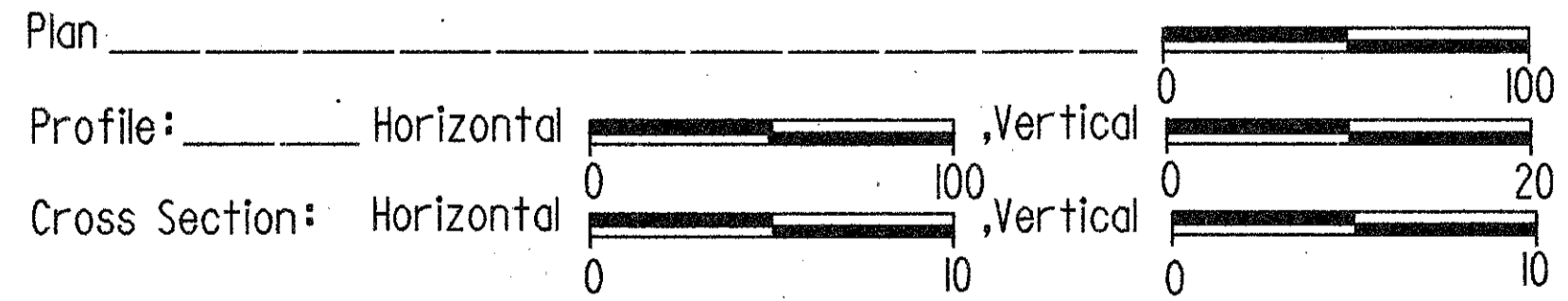


LOCATION MAP



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

SCALES



SUPPLEMENTAL SPECIFICATIONS	

REF. NO.	LOCATION	BEGIN OR RESUME WORK		LENGTH OF WORK	BEGIN OR RESUME PROJECT		LENGTH OF PROJECT
		RESUME WORK	SUSPEND WORK		SUSPEND PROJECT	PROJECT	
①	Oil Center Road	4+00	26+00	2200	5+00	25+77.44	2077.44
②	Greensburg Pike	39+25	59+00	1975	40+00	58+25	1825
③	Portage Road	40+25	60+01	1976	40+25	60+01	1976
④	Kramer Road	39+50	60+41	2091	40+25	60+25	2000
⑤	Gypsy Lane Road	39+29	61+08	2179	40+60	60+02	1942
⑥	Napoleon Road	38+75	63+75	2500	39+50	63+00	2350
Net Length of Work		12921 LIN. FT.			Net Length of Project		12170.44 Lin. Ft.
		= 2.447 Miles					= 2.305 Miles

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS					
AS-1-81	11-27-81	GR-4.1	5-6-91	MT-95.30	10-10-88
BR-1	5-29-79	GR-4.2	5-6-91	MT-97.10	4-29-88
EXJ-4-87	1-5-89			MT-97.11	10-4-89
		MC-1	6-13-69		
BP-3.1	2-21-92				
BP-4.1	2-21-92	TC-35.10	8-29-84		
GR-1.1	5-6-91	TC-41.20	3-26-79		
GR-1.2	5-6-91	TC-42.20	3-26-79		
GR-1.3	2-21-92	TC-52.10	4-3-79		
GR-2.1	5-6-91	TC-52.20	4-3-79		
GR-3.1	5-6-91				

Plan Prepared By:
OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT No. 2

SEAL

Approved: JAMES J. McCarty
Date: 7-14-92 District Deputy Director of Transportation

Approved: B.D. Hanjilammi *DFT*
Date: 7-28-92 Engineer, Bureau of Bridges and Structural Design

Approved: Alexander H. Hynds
Date: 9-29-92 Deputy Director, Operations

Approved: Jerry Wray
Date: 9-29-92 Director, Department of Transportation

**DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION**

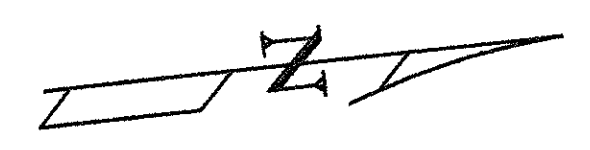
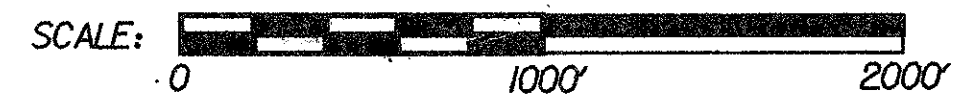
APPROVED: _____

DIVISION ADMINISTRATOR DATE

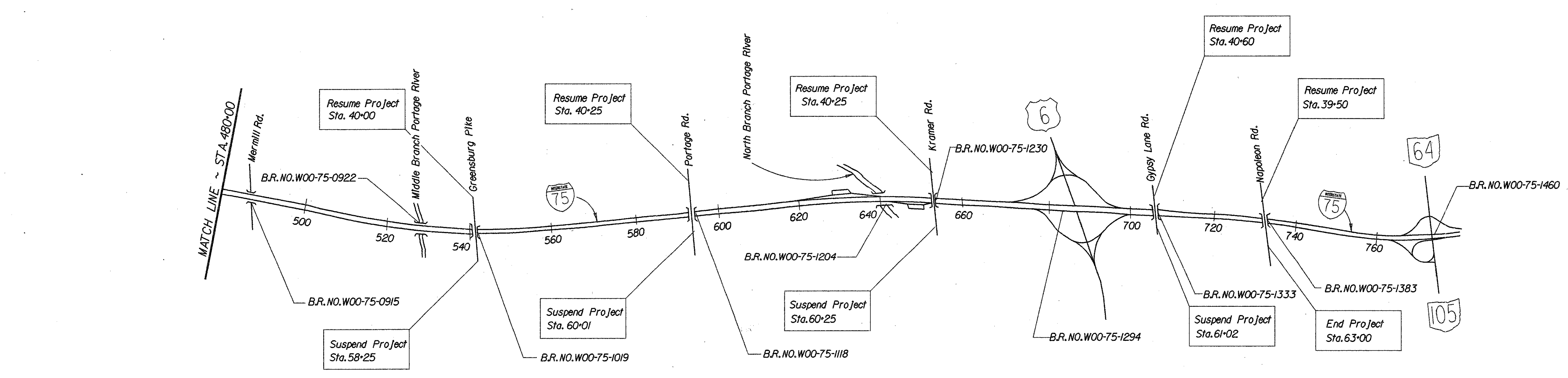
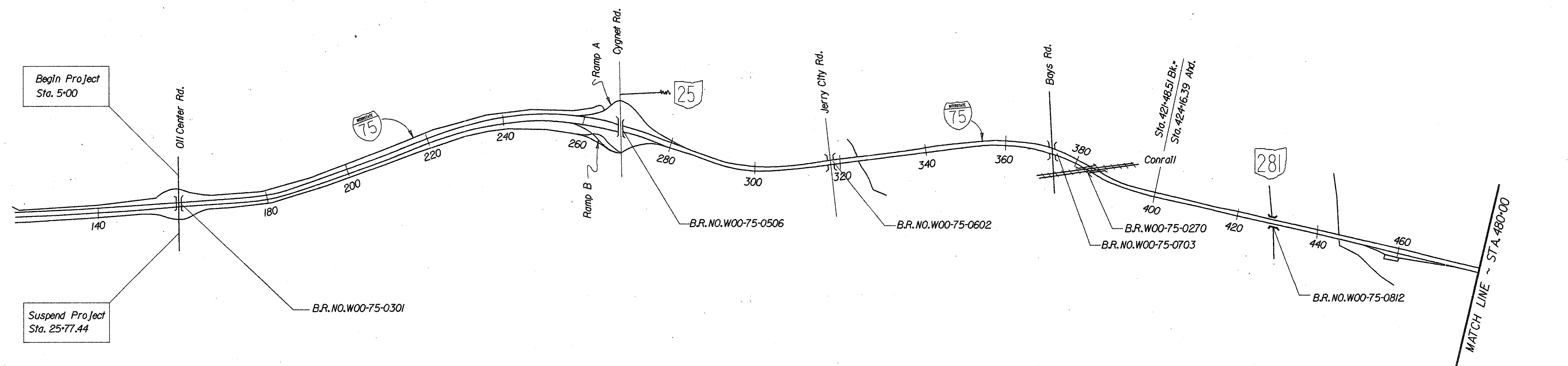
ZF A12001001W75TL5.DGN

Project: **W00-75-3.01 (VARIOUS)**
Date of Letting: _____ 19__ , Contract No. _____

SCHEMATIC PLAN



	Oil Center Road	Greensburg Pike	Portage Road	Kramer Road	Gypsy Lane Road	Napoleon Road
Current ADT (1992)	260	230	260	320	1560	1660
Design Year ADT (2012)	340	300	340	420	2030	2160
Design Exceptions:	Structural Capacity	Structural Capacity	Structural Capacity	Structural Capacity	Structural Capacity	Structural Capacity
	Stopping Sight Distance	Stopping Sight Distance	Stopping Sight Distance	Stopping Sight Distance	Stopping Sight Distance	Stopping Sight Distance



ZF-A4-200-22012W75SCH-D6WJ

TYPICAL SECTIONS

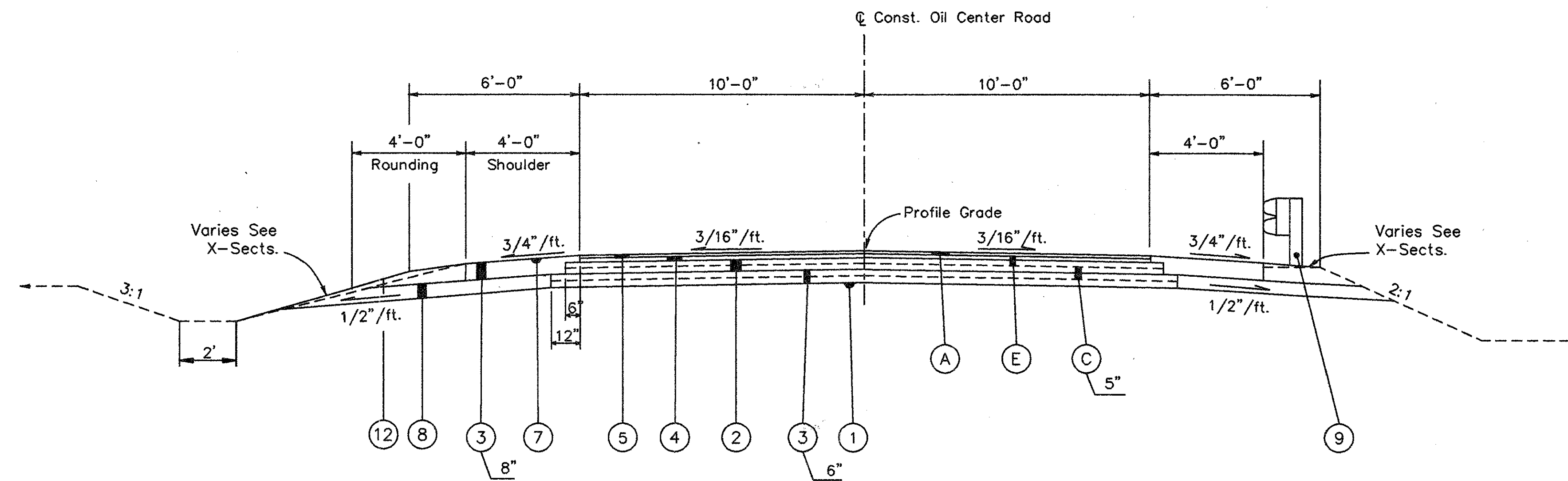
TYPE 404

FHWA REGION	STATE	PROJECT
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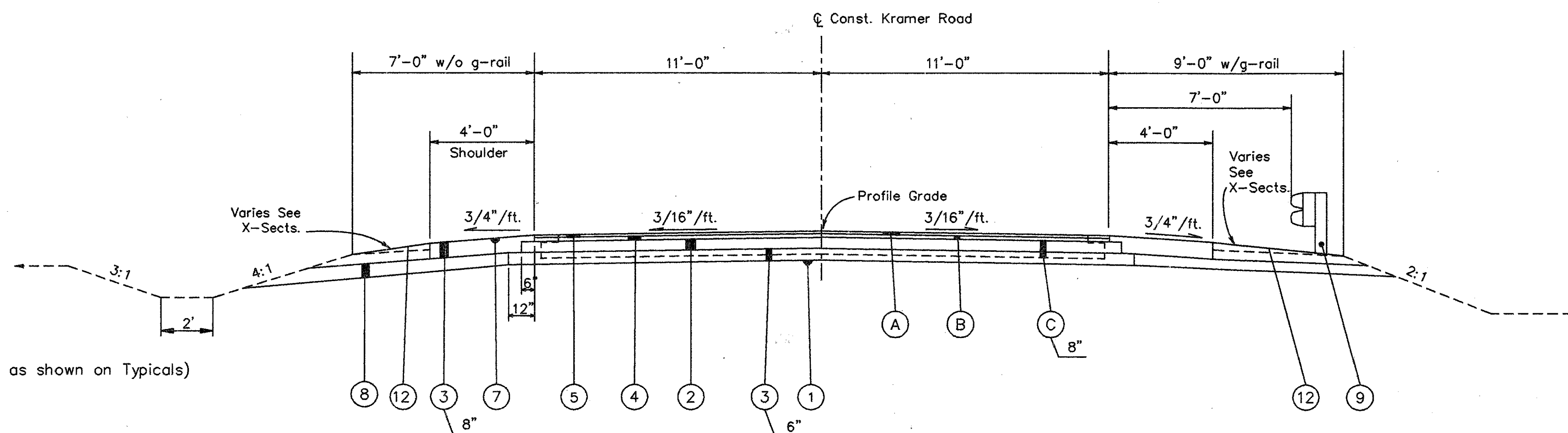
TYPICAL SECTION A



NORMAL SECTION

This Section Applies From
 Oil Center Road Sta. 5+00.0 To Sta. 13+18.6 = 818.6 Lin. Ft.
 Sta. 15+97.2 To Sta. 25+77.4 = 980.2 Lin. Ft.
 Total = 1798.8 Lin. Ft.

TYPICAL SECTION B



NORMAL SECTION

Kramer Road Sta. 40+25.0 To Sta. 48+31.7 = 806.7 Lin. Ft.
 Sta. 51+76.3 To Sta. 60+25.0 = 848.7 Lin. Ft.
 Portage Road Sta. 40+25.0 To Sta. 48+34.4 = 809.4 Lin. Ft.
 Sta. 51+67.2 To Sta. 60+01.0 = 933.8 Lin. Ft.
 Total = 3398.6 Lin. Ft.

EXISTING LEGEND

- (A) 1 1/4" Asphalt Concrete
- (B) 1 1/4" Asphalt Concrete
- (C) Aggregate Base (Thickness as shown on Typicals)
- (D) 13" Approach Slab
- (E) 5" Crushed Aggregate Base

PROPOSED LEGEND

- (1) Item 203, Subgrade Compaction
- (2) Item 301, 5" Bituminous Aggregate Base, AC-20
- (3) Item 304, Aggregate Base, As Per Plan (Thickness as shown on Typicals)
- (4) Item 402, 1 3/4" Asphalt Concrete, AC-20
- (5) Item 404, 1 1/4" Asphalt Concrete, AC-20
- (6) Item 407, Tack Coat
- (7) Item 409, Seal Coat Bituminous Material and Cover Aggregate No.8 (2 applications)
- (8) Item 605, Aggregate Drains
- (9) Item 606, Guardrail, Type 5
- (10) Item 611, Approach Slab (Thickness 15")
- (11) Item 617, Compacted Aggregate, Type A
- (12) Item 659, Seeding and Mulching

W75TYP.DWG ACAD1:MGE

TYPICAL SECTIONS

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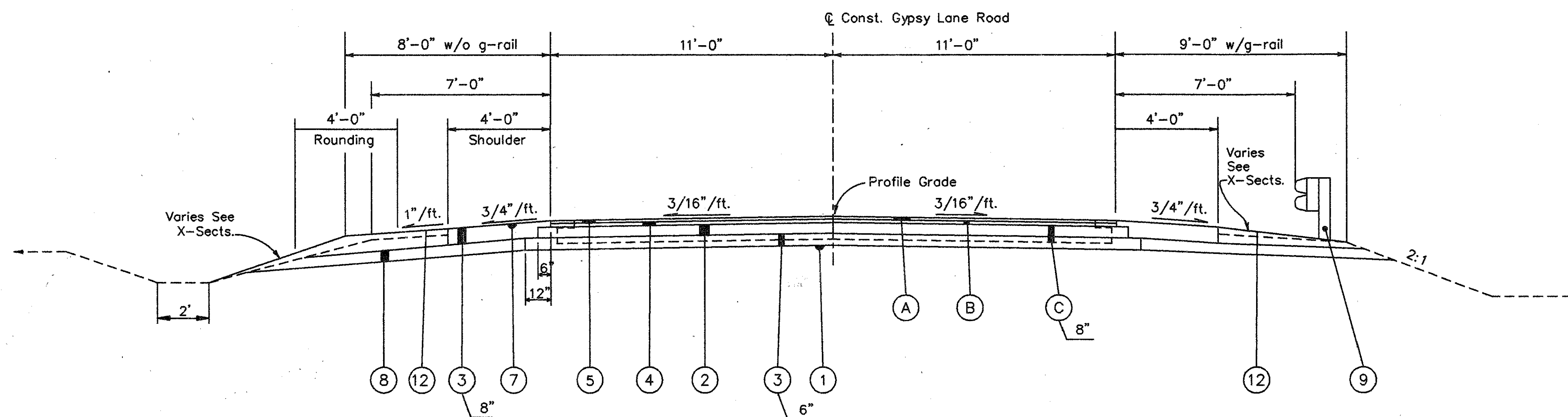
FHWA REGION	STATE	PROJECT
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See Sheet No. 3
for Pavement Legend

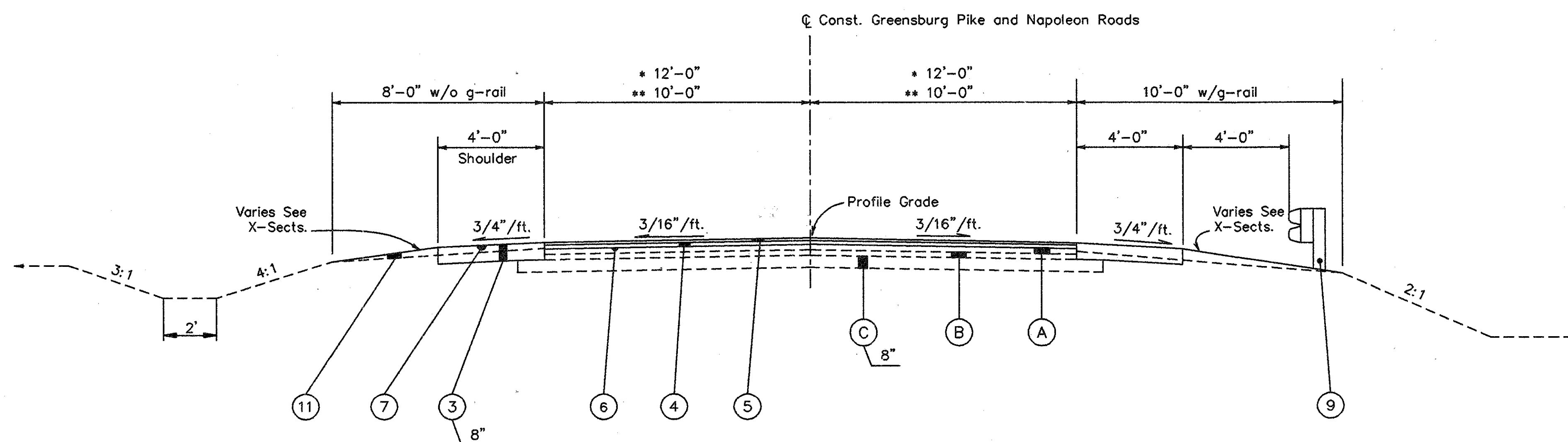
TYPICAL SECTION C



NORMAL SECTION

Gypsy Lane Road Sta. 40+60.0 To Sta. 48+36.3 = 776.3 Lin. Ft.
Sta. 51+93.8 To Sta. 60+02.0 = 808.2 Lin. Ft.
Total = 1584.5 Lin. Ft.

TYPICAL SECTION D



NORMAL SECTION

** Greensburg Pike Road Sta. 39+25.0 To Sta. 47+74.3 = 849.3 Lin. Ft.
Sta. 51+09.9 To Sta. 59+00.0 = 790.1 Lin. Ft.
* Napoleon Road Sta. 39+50.0 To Sta. 48+27.0 = 877.0 Lin. Ft.
Sta. 52+44.0 To Sta. 63+00.0 = 1056.0 Lin. Ft.
Total = 3572.4 Lin. Ft.

W75TYP1.DWG ACAD1: MGE

TYPICAL SECTIONS

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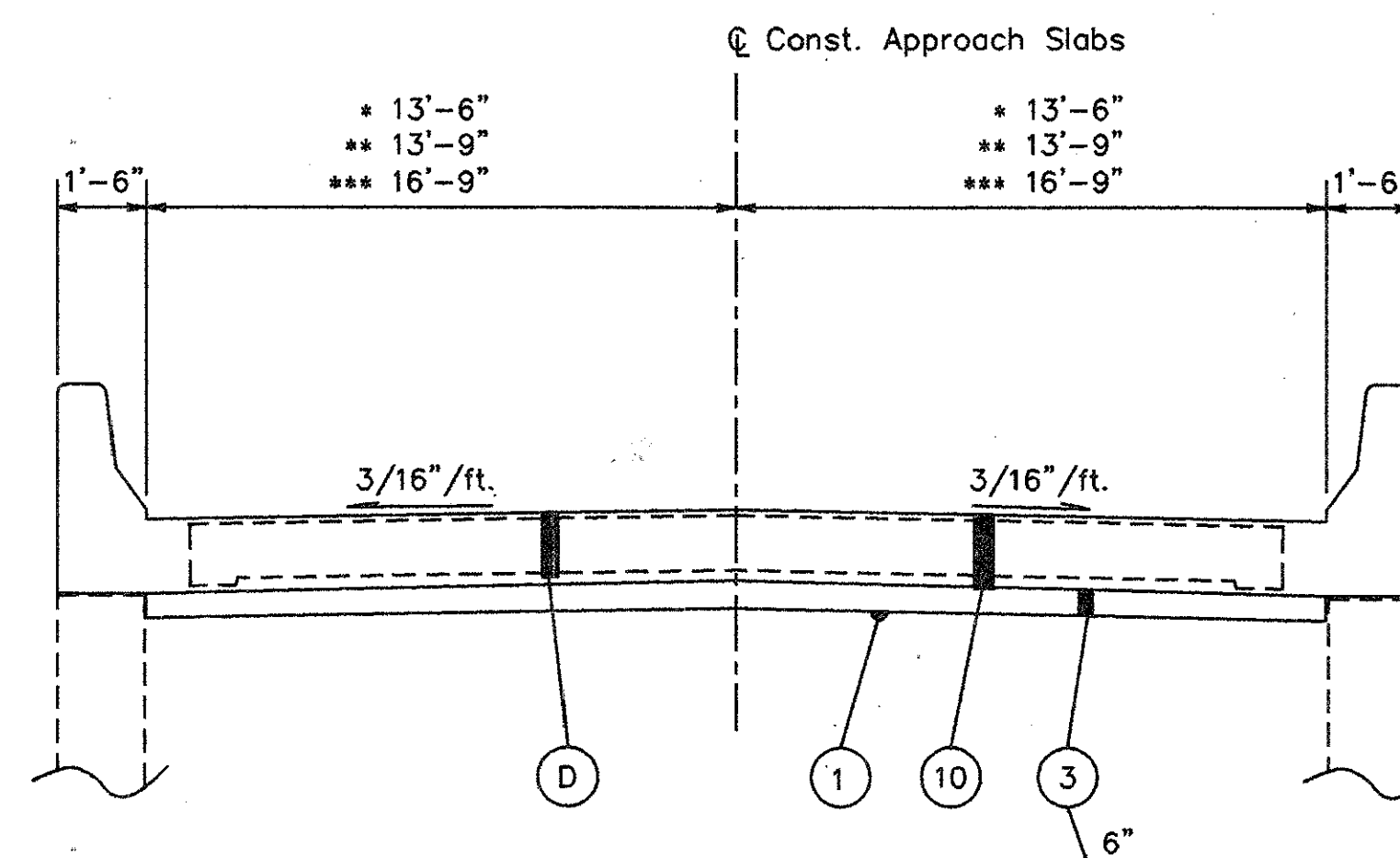
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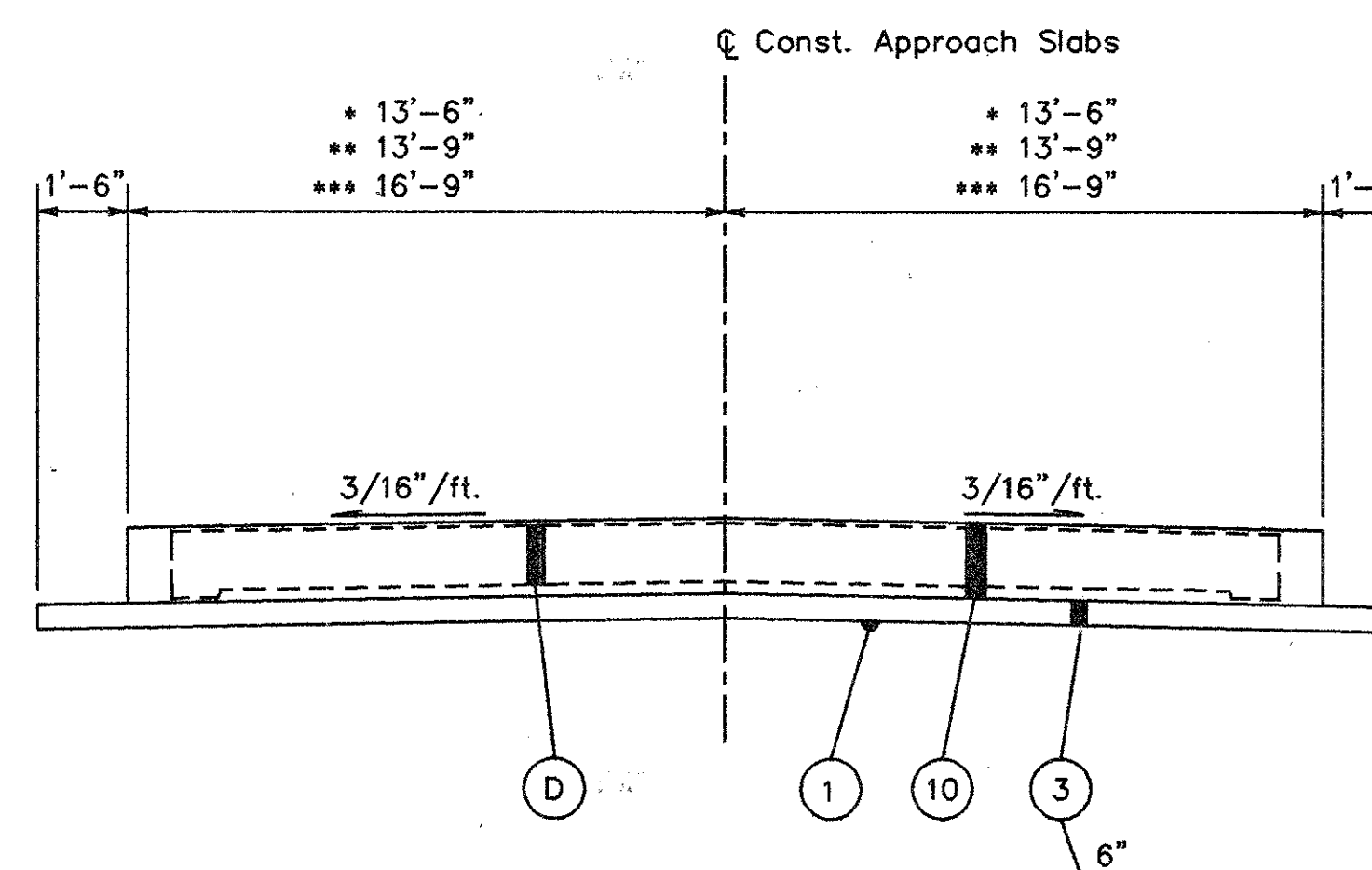
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See Sheet No. 3
for Pavement Legend

TYPICAL AT BARRIER



TYPICAL W/OUT BARRIER



NORMAL SECTION

** Oil Center Road	Sta. 13+18.6 To Sta. 13+43.6 = 25.0 Lin. Ft. Sta. 15+72.2 To Sta. 15+97.2 = 25.0 Lin. Ft.
** Greensburg Pike Road	Sta. 47+74.3 To Sta. 47+99.3 = 25.0 Lin. Ft. Sta. 50+84.9 To Sta. 51+09.9 = 25.0 Lin. Ft.
** Portage Road	Sta. 48+34.4 To Sta. 48+59.4 = 25.0 Lin. Ft. Sta. 51+42.2 To Sta. 51+67.2 = 25.0 Lin. Ft.
** Kramer Road	Sta. 48+31.7 To Sta. 48+56.7 = 25.0 Lin. Ft. Sta. 51+51.3 To Sta. 51+76.3 = 25.0 Lin. Ft.
* Gypsy Lane Road	Sta. 48+36.3 To Sta. 48+61.3 = 25.0 Lin. Ft. Sta. 51+68.8 To Sta. 51+93.8 = 25.0 Lin. Ft.
*** Napoleon Road	Sta. 49+02.0 To Sta. 49+27.0 = 25.0 Lin. Ft. Sta. 52+19.0 To Sta. 52+44.0 = 25.0 Lin. Ft.

Total = 300.0 Lin. Ft.

GENERAL NOTES

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MAINTENANCE OF TRAFFIC

THROUGH TRAFFIC SHALL BE DETOURED FOR A PERIOD NOT TO EXCEED 30 CONSECUTIVE CALENDAR DAYS. THE DETOURS SHALL BE DETERMINED BY THE WOOD COUNTY ENGINEER. NO TWO CONSECUTIVE BRIDGES WILL BE ALLOWED TO BE CLOSED AT THE SAME TIME. TRAFFIC ON INTERSTATE 75 SHALL NOT BE AFFECTED AT ANY TIME.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. (THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.)

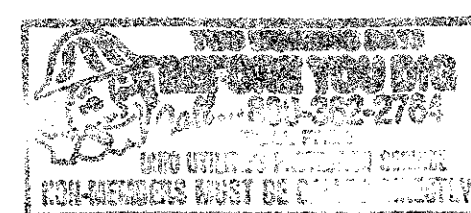
UTILITY OWNERSHIP

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT:

TELEPHONE OHIO BELL TELEPHONE COMPANY
130 N. ERIE-ROOM 206
TOLEDO, OHIO 43624
419-245-7529

GENERAL TELEPHONE-NORTH AREA
300 WEST GYPSY LANE RD.
BOWLING GREEN, OHIO 43402
419-354-9449

POWER OHIO POWER COMPANY
301 CLEVELAND AVE. SW
P.O. BOX 24400
CANTON, OHIO 44701
216-438-7040



BOWLING GREEN (ELECTRIC)
MUNICIPAL UTILITIES
BOWLING GREEN OHIO, 43402
419-354-6227

HANCOCK-WOOD ELECTRIC COOP. INC.
2451 GRANT RD.
P.O. BOX 188 OHIO 45502
NORTH BALTIMORE, OHIO 45872
419-257-3241

GAS COLUMBIA GAS TRANSMISSION
1804 BROAD AVE.
FINDLAY, OHIO 45840
419-422-3572

PIPE LINE BUCKEYE PIPE LINE L.P.
P.O. BOX 368
EMMAUS, PA. 18049
1-800-523-9420 EXT-269

MARATHON OIL COMPANY
539 S. MAIN STREET
FINDLAY, OHIO 45840
419-422-2121

ITEM SPECIAL - MAILBOX SUPPORTS

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ASSOCIATED MOUNTED HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX, AT LOCATIONS WHERE EXISTING NON-STANDARD MAILBOX SUPPORTS ARE LOCATED, OR AS OTHERWISE ESTABLISHED BY THE ENGINEER.

THE SUPPORT SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

AN OWNER-SUPPLIED MAILBOX WILL BE MOUNTED BY THE CONTRACTOR ON THE SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, SPACERS AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETED INSTALLATION. IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

AT LOCATIONS WHERE MORE THAN ONE SUPPORT IS REQUIRED, THE MINIMUM SPACING BETWEEN THE CENTERS OF SUPPORT POSTS SHALL BE THREE-FOURTHS THE HEIGHT OF THE POST ABOVE GROUNDLINE.

IF NECESSARY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POSTMASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

AN ESTIMATED QUANTITY OF MAILBOX SUPPORTS HAS BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

MAILBOX SUPPORTS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR "ITEM SPECIAL, EACH, MAILBOX SUPPORT (SINGLE) OR ITEM SPECIAL, EACH, MAILBOX SUPPORT (DOUBLE).

NOTE: SUPPORTS SHOWN IN THIS PLAN ARE SHOWN ON SHEET NO. 8. THE CONTRACTOR MAY SUBSTITUTE A SUPPORT SYSTEM AS RECOMMENDED IN AASHTO PAMPHLET "A GUIDE FOR ERECTING MAILBOXES ON HIGHWAYS" DATED MAY 24, 1984. ALL WORK SHALL BE APPROVED BY THE ENGINEER.

GENERAL PROVISIONS:

THE CONTRACTOR'S ATTENTION IS CALLED TO ALL OF SECTION 100 OF THE 1991 CONSTRUCTION AND MATERIAL SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION, AND SPECIFICALLY TO THE ITEMS LISTED BELOW AS PROVIDED FOR IN THIS SECTION.

WIDENING EXISTING BERMS

PORTIONS OF THE EXISTING BERM ON THIS PROJECT SHALL BE BUILT UP AND GRADED TO THE WIDTH AND SLOPES INDICATED ON THE TYPICAL SECTIONS. THE EXISTING BERM SHALL BE PREPARED AS REQUIRED IN SPEC. 201.04. ALL EMBANKMENT SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH SPEC. 203.09 EXCEPT THAT THE REQUIREMENTS FOR MOISTURE, DENSITY CONTROL, AND BENCHING ARE HEREBY WAIVED FOR WIDENED BERMS WHICH DO NOT SUPPORT ANY PORTION OF NEW PAVEMENT OR SHOULDER. ALL OF THE ABOVE PROVISIONS SHALL BE CONSIDERED INCIDENTAL TO THE NORMAL EARTHWORK ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.

LOCATION OF GUARDRAIL

THE LOCATIONS OF GUARDRAIL RUNS, AS SHOWN IN THESE PLANS, ARE SUBJECT TO ADJUSTMENT PRIOR TO FINAL ACCEPTANCE. THE ENGINEER SHALL BE SATISFIED THAT ALL INSTALLATIONS WILL AFFORD MAXIMUM PROTECTION FOR TRAFFIC.

GUARDRAIL OVER CULVERTS

WHEN SUFFICIENT POST DEPTH IS NOT AVAILABLE TO A CULVERT, THE GUARDRAIL POSTS DIRECTLY OVER THE CULVERT SHALL NOT BE DRIVEN, BUT SET IN HOLES. IF THE DISTANCE BETWEEN THE GROUND AND THE TOP OF THE CULVERT IS LESS THAN 3 FT., THE POST SHALL BE ENCASED IN A MINIMUM OF 4" THICKNESS OF CLASS C CONCRETE FOR THE FULL DEPTH OF THE POST. PAVEMENT FOR THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 606, GUARDRAIL TYPE 5.

MONUMENTS

MONUMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN ON STANDARD CONSTRUCTION DRAWING MC-1. FOR LOCATIONS, SEE ROADWAY SUBSUMMARIES.

ITEM 304, AGGREGATE BASE, AS PER PLAN

MATERIALS FURNISHED FOR THIS (THESE) ITEM(S) SHALL EXCLUDE ALL SLAG EXCEPT GRANULATED SLAG OR CRUSHED AIR-COOLED BLAST FURNACE SLAG. THE MAXIMUM TOTAL PERCENT PASSING THE NO. 200 SIEVE FOR 304 SHALL BE 8 PERCENT AS OPPOSED TO THE 13 PERCENT SHOWN IN 304.02.

AT THE CONTRACTOR'S OPTION, CRUSHED CONCRETE OBTAINED FROM CONCRETE PAVEMENT ON THIS PROJECT OR PROJECTS CONSTRUCTED UNDER ODOT SPECIFICATIONS MAY BE USED FOR ITEM 304 AGGREGATE BASE. ALL CRUSHED CONCRETE PASSING THE NO. 4 SIEVE SHALL BE REPLACED BY MATERIAL OBTAINED FROM APPROVED SOURCES. THE RECYCLED CONCRETE PAVEMENT SHALL NOT CONTAIN MORE THAN 1.0% RECYCLED ASPHALT PAVEMENT. ALL OTHER REQUIREMENTS OF 304 AND 703.04 SHALL APPLY.

ITEM 409 SEAL COAT

THE SEAL COAT AND COVER AGGREGATE OPERATION SHALL BE DETERMINED BY SPEC. 407.07, 409.08 PLAN QUANTITIES INDICATED TWO COATINGS WITH AVERAGE APPLICATION RATES OF 0.3 GALLONS PER SQUARE YARD OF BITUMINOUS MATERIAL AND 0.0083 CUBIC YARDS PER SQUARE YARD OF COVER AGGREGATE PER COAT FOR ESTIMATING PURPOSES ONLY.

ITEM 605 AGGREGATE DRAINS

AGGREGATE DRAINS SHALL BE PLACED AT FIFTY (50) FOOT INTERVALS ON EACH SIDE OF NORMAL CROWNED SECTIONS AND STAGGERED SUCH THAT DRAINS ON OPPOSITE SIDES OF THE ROADWAY ARE 25 FEET APART.

SOIL INFORMATION

SOIL PROFILE DATA USED IN THE DESIGN OF NEW PAVEMENTS WAS OBTAINED FROM ORIGINAL CONSTRUCTION TEST BORING DATA. COPIES OF THIS DATA MAY BE OBTAINED IN THE DISTRICT TWO DESIGN OFFICE.

SEEDING

QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN FIVE (5) FEET OUTSIDE THE WORK LIMITS AS SHOWN ON THE CROSS SECTIONS.

WATER

THE ESTIMATED QUANTITIES AS SHOWN ON THE SUBSUMMARY SHEETS ARE TO BE USED AS DIRECTED BY THE ENGINEER TO PROMOTE GROWTH AND TO CARE FOR THE PERMANENT SEEDING AREAS AS PER 659.09.

BRIDGE GENERAL NOTES

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EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURES HAVE BEEN OBTAINED FROM THE PLANS OF THE EXISTING STRUCTURES AND/OR FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURES AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02, AND 513.02.

ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN:

WHEN NO LONGER NEEDED TO MAINTAIN TRAFFIC THE DESIGNATED PORTIONS OF THE BRIDGE, AS SHOWN IN THE PLANS, SHALL BE REMOVED. THE LIMITS OF THIS ADDITIONAL REMOVAL SHALL BE DIRECTED BY THE ENGINEER. CARE SHALL BE EXERCISED DURING REMOVAL TO AVOID DAMAGE TO I-75 AND TO ADJACENT PORTIONS OF THE BRIDGE WHICH ARE NOT TO BE REPAIRED UNDER THIS CONTRACT.

THIS ITEM SHALL INCLUDE THE REMOVAL AND DISPOSAL OF PORTIONS OF THE EXISTING BRIDGE DECKS IN ADDITION TO THE REMOVAL OF THE PARAPETS, EXPANSION JOINTS, AND EXISTING EXPANSION JOINT SEALER.

REPLACEMENT OF EXISTING REINFORCING STEEL:

ANY EXISTING REINFORCING BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND WHICH ARE MADE UNUSABLE BY THE CONTRACTOR'S CONCRETE REMOVAL OPERATIONS SHALL BE REPLACED WITH NEW STEEL AT HIS COST. ANY EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION SHALL BE REPLACED WITH NEW STEEL. AN ALLOWANCE OF 1000 POUNDS IS INCLUDED UNDER ITEM 509 IN THE BRIDGE SUMMARY FOR THIS PURPOSE.

ITEM 510, DOWEL HOLE:

EACH DOWEL HOLE SHALL BE DRILLED TO A DEPTH AND AT SPACINGS AS SHOWN IN THE PLANS. EACH HOLE SHALL BE THOROUGHLY CLEANED OF ALL DUST AND OTHER DELETERIOUS MATERIAL. THE HOLE SIZE SHALL BE AT LEAST 1/4" LARGER THAN THE DOWEL BAR.

THE GROUT SHALL CONSIST OF CEMENT AND WATER USING TYPE I, TYPE III OR SHRINKAGE COMPENSATING CEMENT. CLEAN HOLES SHALL BE SATURATED THOROUGHLY WITH WATER FOR A MINIMUM OF 5 MINUTES PRIOR TO PLACING GROUT. IMMEDIATELY PRIOR TO GROUTING, ALL FREE STANDING WATER SHALL BE REMOVED FROM THE HOLE. AFTER INITIAL MIXING, THINNING OR RETEMPERING OF GROUT WITH EXTRA WATER SHALL NOT BE ALLOWED. HARDENED OR SET GROUT WHICH HAS BECOME TOO STIFF OR DRY TO PROVIDE A GOOD BOND SHALL BE DISCARDED. DOWELS SHALL NOT BE INSTALLED IF THE MEAN AIR OR GROUT TEMPERATURES ARE LESS THAN 45° F. FURTHERMORE, AFTER PLACING, THE FRESH GROUT SHALL BE MAINTAINED AT A TEMPERATURE OF NOT LESS THAN 45° F FOR 72 HOURS, AND AT NOT LESS THAN 40° F FOR AN ADDITIONAL 4 DAYS. THE TEMPERATURE OF THE MIXED GROUT, IMMEDIATELY BEFORE PLACING, SHALL NOT BE LESS THAN 50° F NOR MORE THAN 90° F. THE CEMENT GROUT SHALL BE CURED CONTINUOUSLY WITH EITHER WET RAGS OR A SATISFACTORY CURING COMPOUND (WHICH MUST BE SUBSEQUENTLY REMOVED) FOR A MINIMUM PERIOD OF 3 DAYS WITHOUT DISTURBING THE DOWELS.

GROUT ANCHORING USING POLYESTER/VINYLESTER AS PER SS 852 OR POLYESTER/VINYLESTER/EPOXY AS PER 952 MAY BE USED IN LIEU OF THE ABOVE REQUIREMENTS WITH THE EXCEPTION THAT THE HOLE SIZE NEEDS TO BE ONLY 1/8" LARGER IN DIAMETER THAN THE DOWEL.

IN ADDITION TO THE QUANTITY OF DOWEL HOLES PROVIDED AN ESTIMATED QUANTITY OF 100 LIN. FT. OF DOWEL HOLES HAS BEEN PROVIDED FOR ANCHORING OF REPLACEMENT REINFORCEMENT STEEL. THIS QUANTITY IS INCLUDED IN THE TOTAL FOR ITEM 510, DOWEL HOLE.

BACKWALL DRAINAGE:

THE EXISTING 6" BACKWALL DRAIN HOLES SHALL BE REPLACED USING THE FOLLOWING METHODS:

- 1.) IF THE ENGINEER DETERMINES THE EXISTING PIPE AT THE ABUTMENT IS IN GOOD CONDITION THEN THE PROPOSED 6" PLASTIC PIPE SHALL BE CONNECTED TO THE STUB OF THE EXISTING DRAIN PIPE.

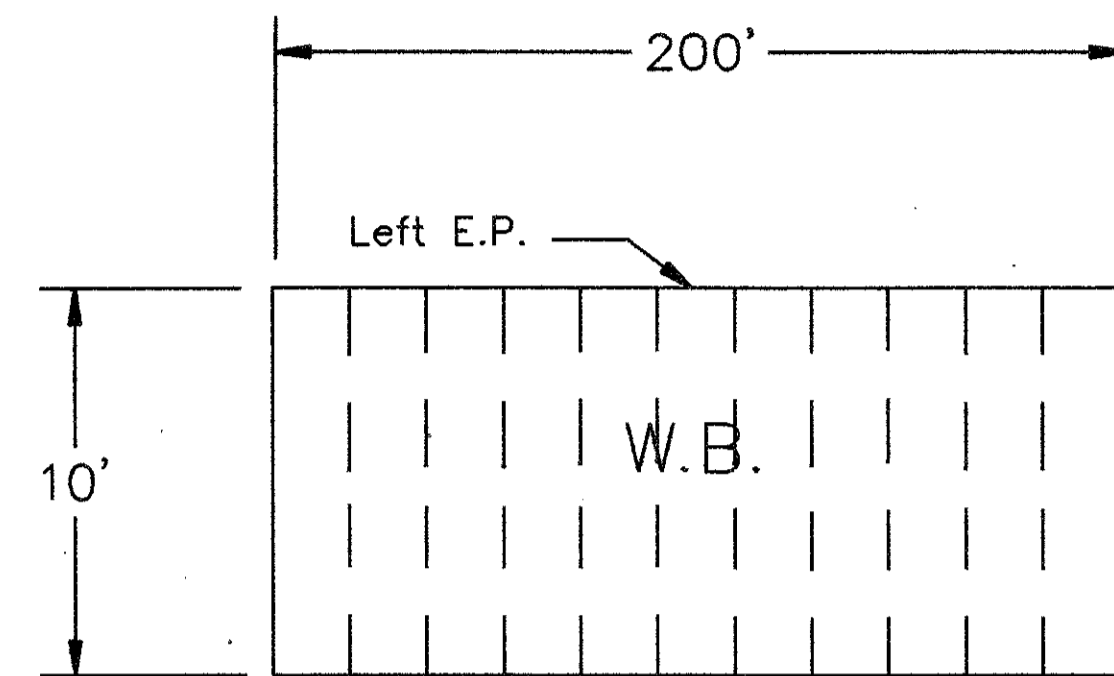
AN ESTIMATED QUANTITY OF 60 LINEAR FEET OF ITEM 603, 6" CONDUIT, TYPE E (707.19), IS TO BE USED AS DIRECTED BY THE ENGINEER FOR EACH STRUCTURE. THE COST OF ALL LABOR, EQUIPMENT, AND MATERIAL NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID.

- 2.) IF THE ENGINEER DETERMINES THE EXISTING PIPE IS IN BAD CONDITION THE WEEPHOLE SHALL BE CORE DRILLED 6 1/2" IN DIAMETER TO ALLOW A 6" PLASTIC PIPE TO BE INSERTED AND ATTACHED TO THE BACKWALL USING AN EPOXY MORTAR.

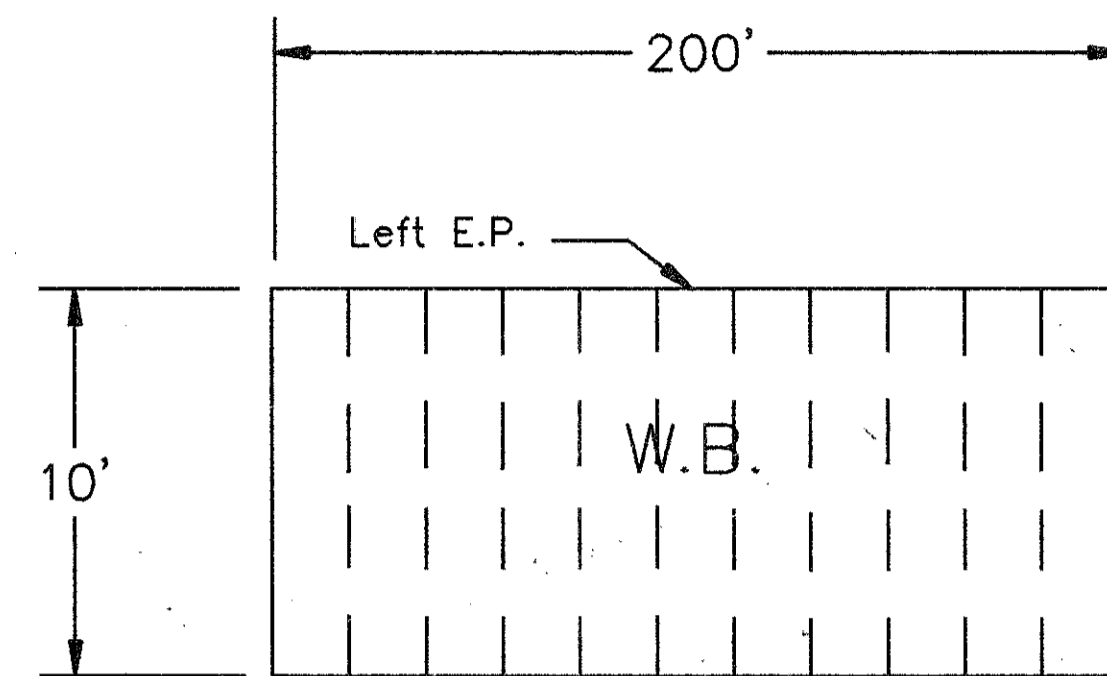
AN ESTIMATED QUANTITY OF 60 LINEAR FEET OF ITEM 603, 6" CONDUIT, TYPE E (707.19), AS PER PLAN IS TO BE USED AS DIRECTED BY THE ENGINEER FOR EACH STRUCTURE. THE COST OF ALL LABOR, EQUIPMENT, AND MATERIAL NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID.

PAVEMENT REPAIR DETAILS
GREENSBURG PIKE ROAD

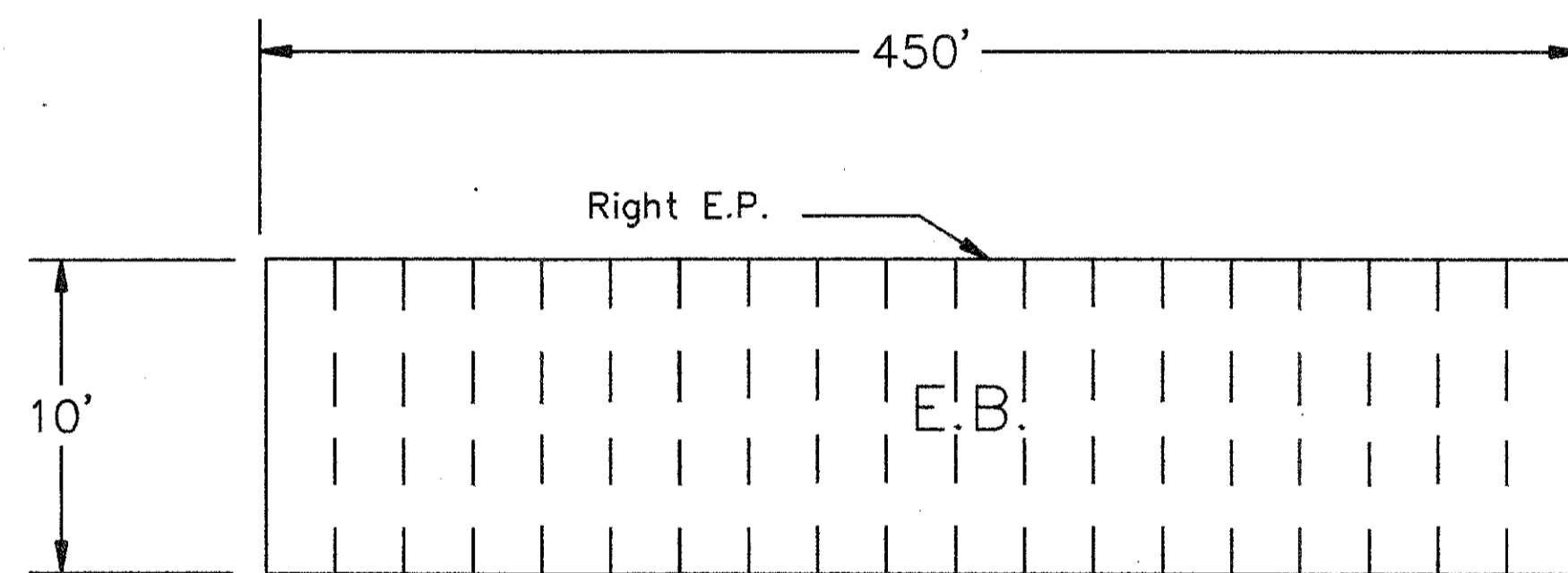
QUANTITIES
CALC. BY LE DATE 5/4/92
CKD. BY MTG DATE 5/5/92



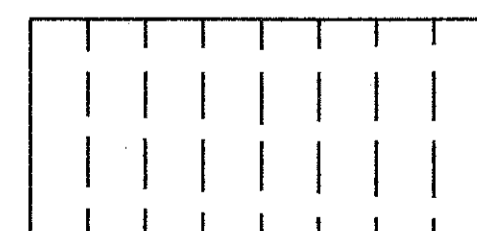
STA. 45+74.32 TO STA. 47+74.32
A= 10' * 200' * 1/9 SQ.YD/SQFT.
= 222.22 SQ.YD.



STA. 51+59.90 TO STA. 53+59.90
A= 10' * 200' * 1/9 SQ.YD/SQFT.
= 222.22 SQ.YD.

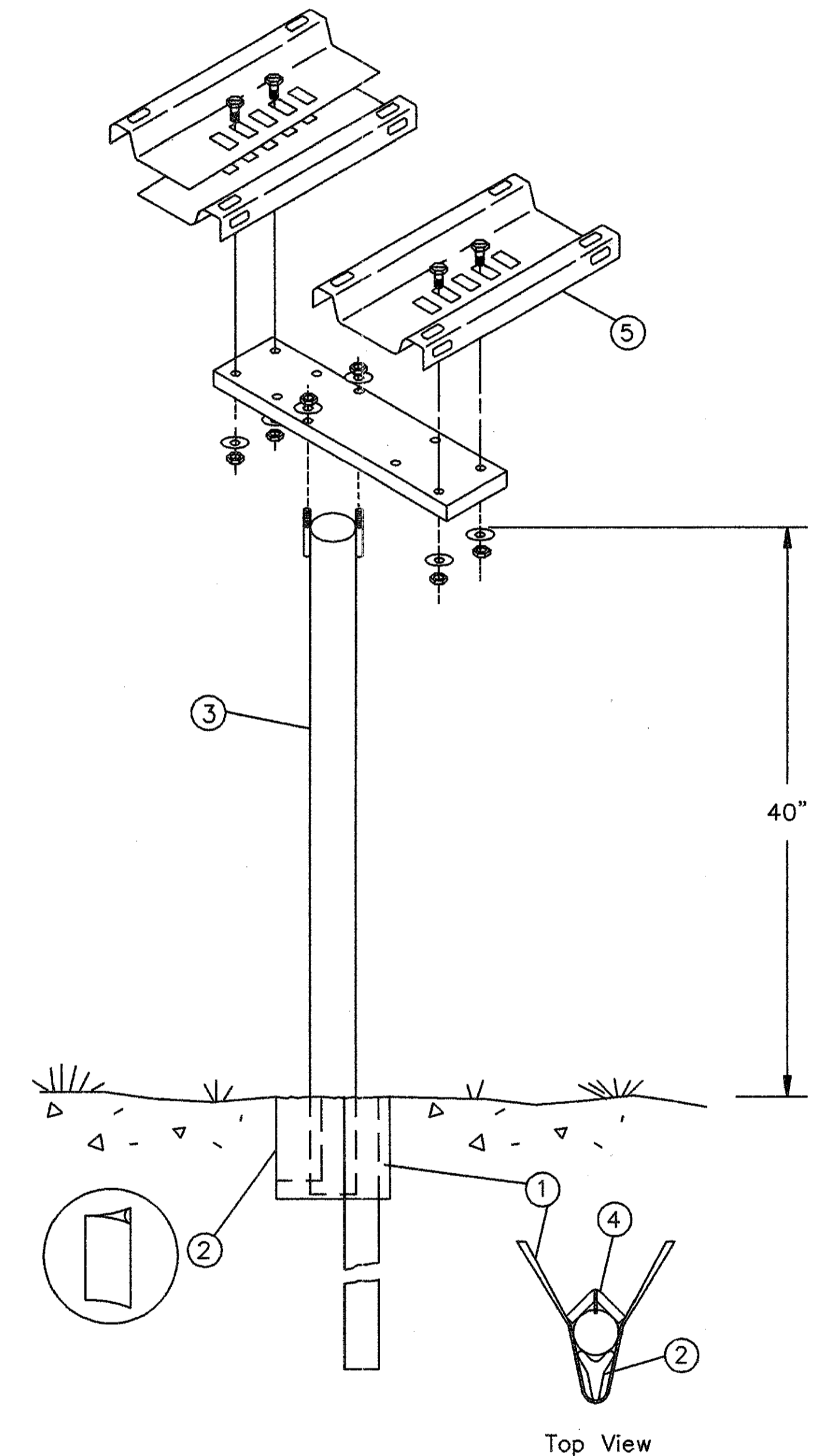


STA. 43+24.30 TO STA. 47+74.32
A= 10' * 450' * 1/9 SQ.YD/SQ.FT.
= 500 SQ.YD.



Item 253, Pavement Repair (8" of 301, 3" Max. Lift)

MAILBOX SUPPORTS



MODEL 20-D DOUBLE MAILBOX SUPPORT SYSTEM
Accommodates Two (2) Mailbox

- ① V-LOC SOCKET:
Stabilizer Fin is 12 gauge hot rolled carbon sheet steel, commercial quality. The fin is formed from sheet steel to the shown configuration.
Leg Angle is hot rolled commercial quality.
Finish is dip-coated with rust inhibiting primer. Fed. Spec. TTP636.
Dimensions Dirt Model Concrete Model
Fin 10"x15" 8"x9-1/4"
Angle 2-1/2"x2-1/2"x1/4"x30" 2-1/2"x2-1/2"x1/4"x8"
Welds (6) 1-1/2"x1/4" (4) 1-1/2"x1/4"
- ② V-LOC WEDGE:
The V-LOC wedge is 12 ga. galvanized steel tubing made to ASTM A-513 specifications, then press formed into wedge shape.
- ③ SUPPORT:
The post is welded mechanical tubing produced to ASTM A-513, 2.0" O.D. 14 ga. galvanized per ASTM A-525, G-90, or equivalent. The post is cut to 48", drilled.
- ④ SUPPORT HARDWARE:
1 each - #14x3/4" loc screw (for alignment stabilization).
- ⑤ BRACKET KIT: One Kit Accommodates One (1) Mailbox
4 each - Bracket halves, galvanized 15 gauge sheet steel.
1 each - Channel bracket, galvanized 14 gauge sheet steel.
2 each - 5/16" zinc plated spade bolt.
1 each - 5/16"x2-1/2" zinc plated hex head machine bolt.
4 each - 5/16"x2-1/2" zinc plated truss head machine screw
7 each - 5/16" nylon insert zinc plated hex head lock nut.
6 each - 5/16" zinc plated flat washers.
8 each - #10x3/4" zinc plated round head machine screw.
16 each - #10 zinc plated flat washers.
8 each - #10 zinc plated hex head lock nut.

GENERAL SUMMARY

QUANTITIES
CALC BY JML DATE 5-18-92
CKD BY JML DATE 5-18-92
Revised 9-16-92

FEMA REGION	STATE	PROJECT
5	OHIO	

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W00-75-3.01 (VARIOUS)

ITEM	SHEET NUMBER							ITEM	ITEM EXT.	QUANTITY	UNIT	DESCRIPTION
	W00-75-0301 Oil Center Road	W00-75-1019 Greensburg Pike Rd.	W00-75-1118 Portage Rd.	W00-75-1230 Kramer Road	W00-75-1333 Gypsy Lane Rd.	W00-75-1383 Napoleon Rd.						
202	89	145	151	147	147	181		202	22900	860	Sq.Yd.	~ROADWAY~ Approach Slab Removed (T-13")
202		250				312		202	23500	562	Sq.Yd.	Wearing Course Removed
202	2200	2041	2238	2618	2720	3617		202	38000	15434	Ln.Ft.	Guardrail Removed
202			1	1		1		202	98100	3	Each	Mailbox Support Post Removed, As Per Plan
203	1826	372	1988	2330	2174	472		203	12000	9162	Cu.Yd.	Excavation Not Including Embankment Construction
203	243		48	78	290			203	20000	659	Cu.Yd.	Embankment
203	6474	171	5638	6231	5053	190		203	50000	23757	Sq.Yd.	Subgrade Compaction
604		4				1		604	38500	5	Each	Monument Assembly
604			4	3				604	39501	7	Each	Monument Box Adjusted to Grade
606	3175	2575	2200	2806	3125	3788		606	13000	17669	Ln.Ft.	Guardrail, Type 5
606	4	1	2	3	4	3		606	25000	17	Each	Anchor Assembly, Type A
606		3	4	6		3		606	26500	16	Each	Anchor Assembly, Type T
606	4	4	4	4	4	4		606	35000	24	Each	Bridge Terminal Assembly, Type 1
617		81				107		617	10100	188	Cu.Yd.	Compacted Aggregate, Type A
Special			1	1		1		Special	69050200	3	Each	Mailbox Support System, Double
605	730		680	660	640			605	31100	2710	Ln.Ft.	Aggregate Drain
253		210						253	02000	210	Cu.Yd.	Pavement Repair
301	679		583	659	527			301	10002	2448	Cu.Yd.	Bituminous Aggregate Base, AC-20
304	1238	354	1421	1221	979	465		304	20001	5678	Cu.Yd.	Aggregate Base, As Per Plan
402	228	174	195	222	176	285		402	20000	1280	Cu.Yd.	Asphalt Concrete, AC-20
404	163	124	145	167	126	203		404	20000	928	Cu.Yd.	Asphalt Concrete, AC-20
407		179				293		407	10000	472	Gallon	Tack Coat
408			50	62				408	10000	112	Gallon	Bituminous Prime Coat
409	30	24	24	13	22	32		409	12500	145	Cu.Yd.	Seal Coat Cover Aggregate, No. 8 For Shoulders
409	1087	874	876	457	792	1154		409	21000	5240	Gallon	Seal Coat Bituminous Material For Shoulders
611	162	163	162	161	159	195		611	25000	1002	Sq.Yd.	Reinforced Concrete Approach Slab (T-15")
659	4240		3202	3190	4195			659	10000	14827	Sq.Yd.	Seeding And Mulching
659	0.37		0.29	0.29	0.38			659	20000	1.33	Ton	Commercial Fertilizer
659	9		7	7	9			659	35000	32	MGal.	Water
630			42	30	30			630	04100	102	Ln.Ft.	Ground Mounted Support, No. 3 Post
630	31	30				34		630	03100	156	Ln.Ft.	Ground Mounted Support, No. 4 Post
630	13	13	19	13	13	13		630	80100	84	Sq.Yd.	Sign, Flat Sheet
630	2	2	3	2	1	2		630	84900	12	Each	Removal Of Ground Mounted Sign And Disposal
630	2	2	3	2	1	2		630	86002	12	Each	Removal Of Ground Mounted Post Support And Disposal
642					0.38	0.43		642	00290	.81	Mile	Center Line
802	36	33	25	31	39	42		802	00300	206	Each	Barrier Reflector, Type A2
802	6	6	6	6	6	6		802	00400	36	Each	Barrier Reflector, Type B2
614	Lump	Lump	Lump	Lump	Lump	Lump		614	11000	Lump	Lump	Maintaining Traffic
619	Lump	Lump	Lump	Lump	Lump	Lump		619	15010	Lump	Lump	Field Office, Type B
623	Lump	Lump	Lump	Lump	Lump	Lump		623	10000	Lump	Lump	Construction Layout Stakes
624	Lump	Lump	Lump	Lump	Lump	Lump		624	10000	Lump	Lump	Mobilization

ZFA2:F200,1007W75SUMM.DGN

Rev. 9/16/92

BRIDGE GENERAL SUMMARY

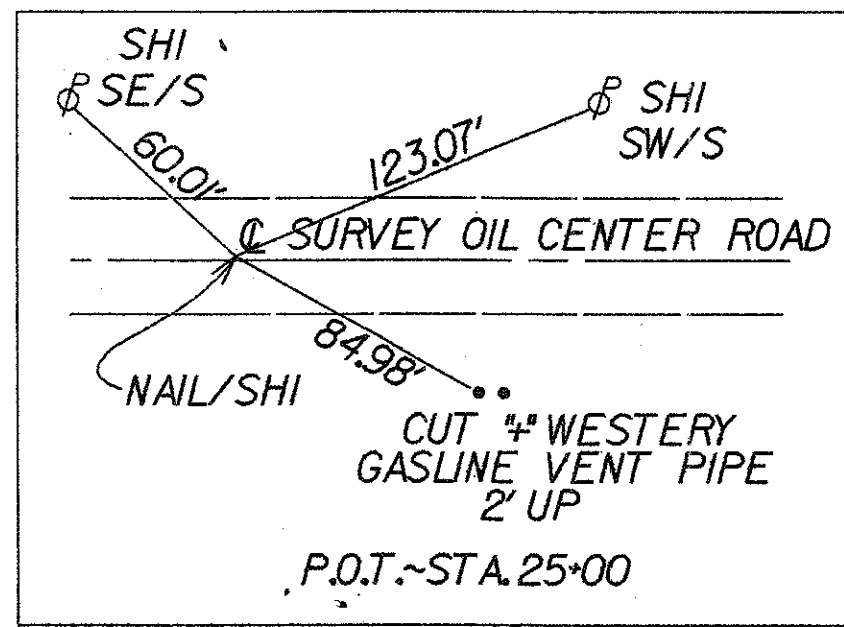
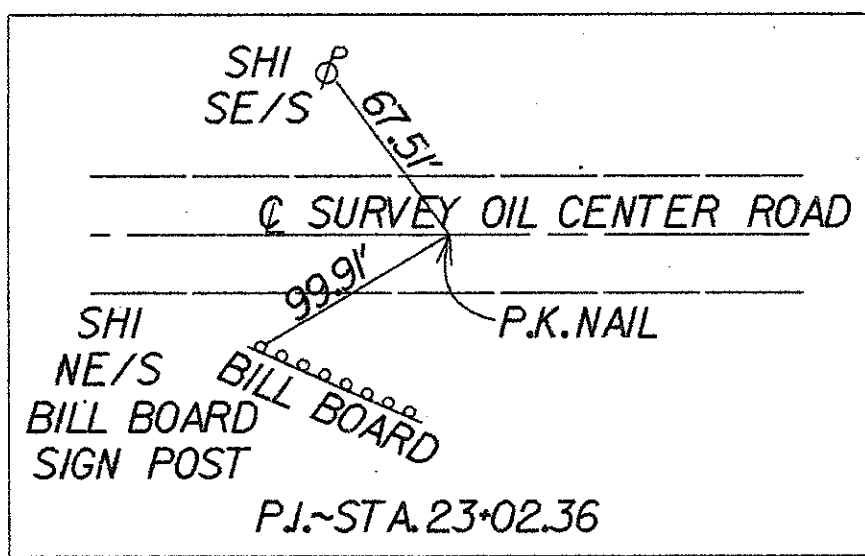
QUANTITIES
 CALC BY: MTG DATE 5-18-92
 CKD BY: JML DATE 5-19-92

FHWA REGION	STATE	PROJECT
5	OHIO	W00-75-3.0I(VARIOUS)

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ITEM	W00-75-0301 OIL CENTER RD.	W0-75-1019 GREENSBURG PIKE	W00-75-1118 PORTAGE RD.	W00-75-1230 KRAMER RD.	W00-75-1333 GYPSY LANE RD.	W00-75-1383 NAPOLEON RD.	MISCELLANEOUS	ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION
202	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP		202	11201	LUMP	LUMP	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
509	9688	11,647	10,292	10,659	11,226	10,770	1,000	509	15800	64,282	LB.	EPOXY COATED REINFORCING STEEL, GRADE 60
510	378	428	432	444	478	470	100	510	12200	2,730	LIN.FT.	DOWEL HOLES
511	51	64	67	70	73	70		511	34400	395	CU.YD.	CLASS S CONCRETE, SUPERSTRUCTURE
511	51	64	67	70	73	70		511	33404	395	CU.YD.	CLASS S CONCRETE, SUPERSTRUCTURE (USING SHRINKAGE COMPENSATING CEMENT) ALTERNATE
511	13	14	11	11	11	12		511	45700	72	CU.YD.	CLASS C CONCRETE, ABUTMENT
SPECIAL	563	692	685	710	708	705		SPECIAL	51267502	4,063	SQ.YD.	SEALING OF CONCRETE SURFACES (EPOXY)
516	56	56						516	11211	112	LIN.FT.	STRUCTURAL EXPANSION JOINT INCLUDING 3" ELASTOMERIC STRIP SEAL, AS PER PLAN A
516			56	56	56	76		516	11211	244	LIN.FT.	STRUCTURAL EXPANSION JOINT INCLUDING 3" ELASTOMERIC STRIP SEAL, AS PER PLAN B
518	16	12	12	12	12	12		518	12801	76	EACH	SCUPPER MODIFICATION, AS PER PLAN
SPECIAL	678	852	854	891	914	1,074		SPECIAL	51922000	5,263	SQ.YD.	MICRO-SILICA MODIFIED CONCRETE OVERLAY (1.25" THICK) (SEE PROPOSAL NOTE)
SPECIAL	8	19	19	16	22	20		SPECIAL	51922100	104	CU.YD.	MICRO-SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS) (SEE PROPOSAL NOTE)
SPECIAL	1	2	1	4	1	1		SPECIAL	51922200	10	CU.YD.	FULL-DEPTH REPAIR (SEE PROPOSAL NOTE)
601	32	40	25	25	25	25		601	20500	172	CU.YD.	CRUSHED AGGREGATE SLOPE PROTECTION
601	45	23	34	4	34	34		601	21100	204	SQ.YD.	SLOPE PROTECTION GROUT, AS PER PLAN
603	60	60	60	60	60	60		603	01400	360	LIN.FT.	6" CONDUIT, TYPE E (707.19)
603	60	60	60	60	60	60		603	01401	360	LIN.FT.	6" CONDUIT, TYPE E (707.19), AS PER PLAN
SPECIAL	752	945	947	988	1,015	1,170		SPECIAL	84550000	5,817	SQ.YD.	CONCRETE BRIDGE DECK SURFACE PREPARATION USING HYDRO DEMOLITION (SEE PROPOSAL NOTE)
511								511		Lump	Lump	Class S concrete, using shrinkage compensating cement, for pre-placement testing

ZFA112002101W75BGS2 .DGN:1



PROPOSED CURVE DATA
 P.I. = 23+02.36
 $\Delta = 316^{\circ}40'$
 $D_s = 35^{\circ}45'$
 $R = 9614.04'$
 $T = 275.075'$
 $L = 550'$

SUSPEND WORK
 STA. 26+00

SUSPEND PROJECT
 STA. 25+77.44

IM-75-6

MARATHON PIPELINE
 STA. 25+99

STA. 25+77.44

MEET EXISTING PAVEMENT
 STA. 25+77.36

+59.10
 Q CONRAIL R.R.

H.W.E. CYGNET Substation

STA. 25+81
 STA. 25+83.7

WARNING
 CRUDE OIL PIPELINE
 MARATHON PIPE LINE CO.
 1-800-753-5531
 STA. 25+99.70

NOTE: (P) = SIGN/MARKER WARNING
 PETROLEUM PIPELINE
 BUCKEYE PIPELINE CO.
 (419) 698-8190
 TOLEDO, OHIO

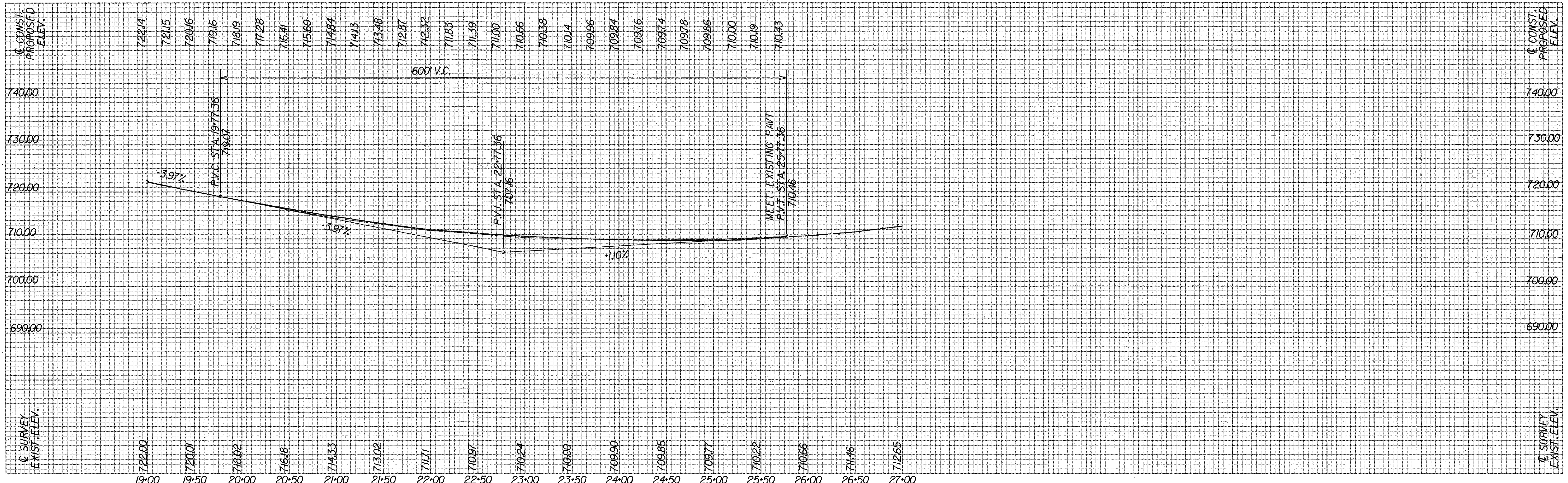
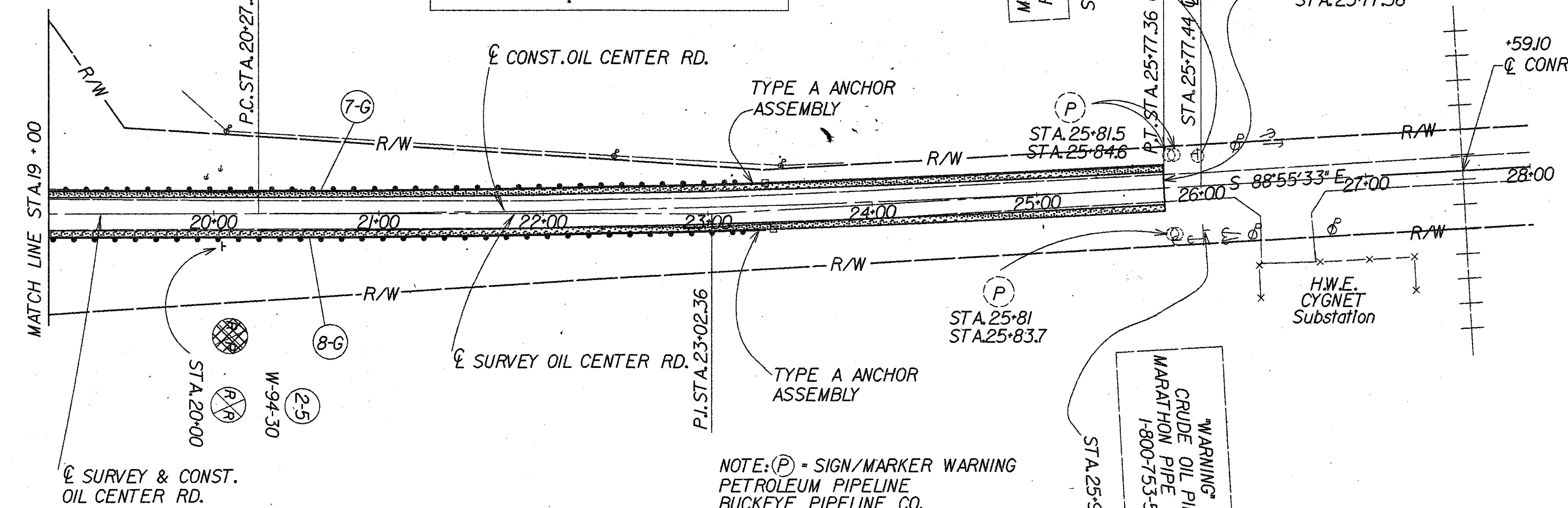
FHWA REGION	STATE	PROJECT
5	OHIO	

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W00-75-3.01 (VARIOUS)

PAVEMENT LEGEND
 4' WIDE BITUMINOUS SURFACE TREATED SHOULDER

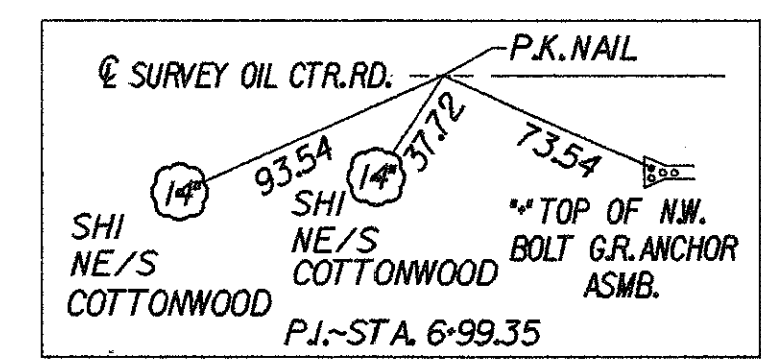
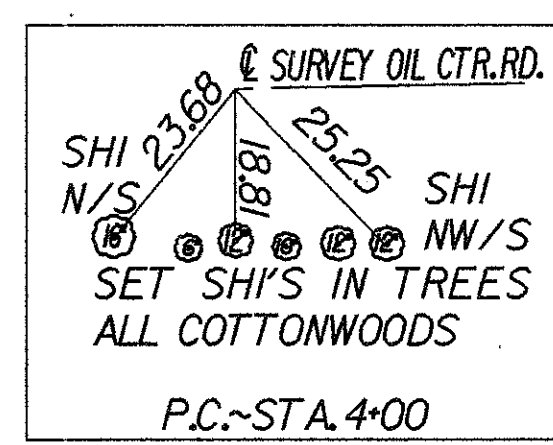
SIGN LEGEND
 EXISTING TO BE REMOVED
 NEW SIGN



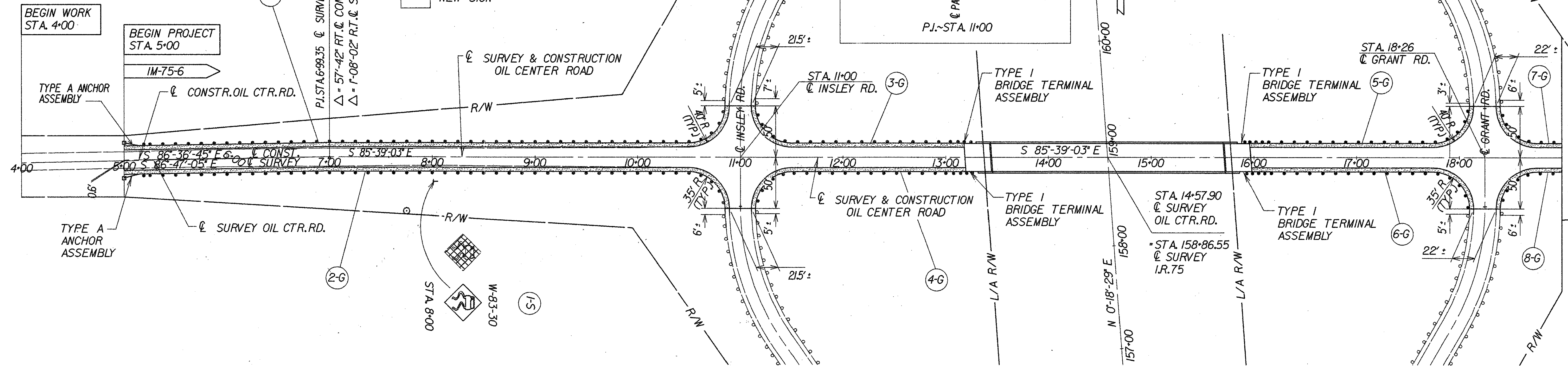
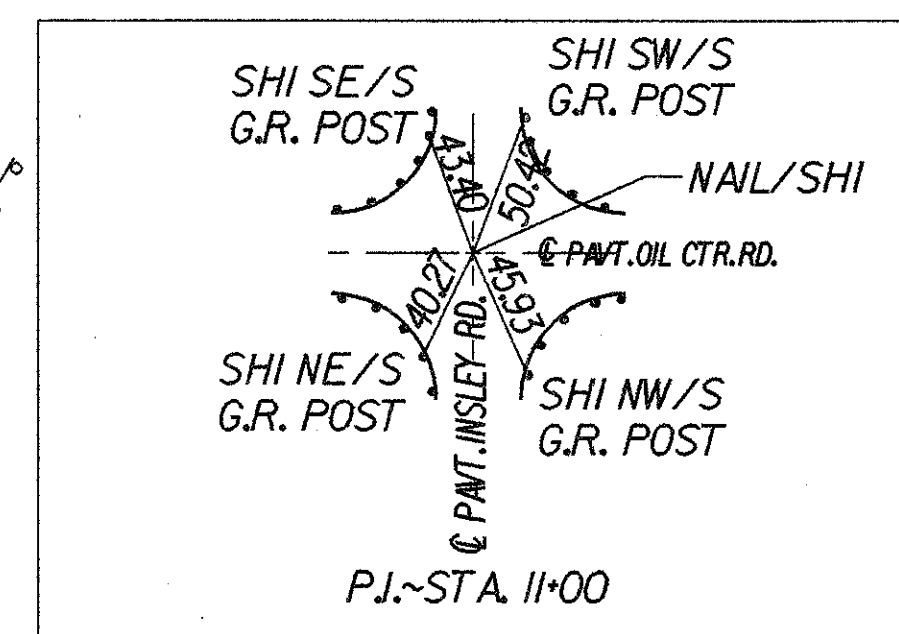
STA. 19+00 TO STA. 27+00 OIL CENTER RD.

FIRM REGION	STATE	PROJECT	11
5	OHIO		116

W00-75-3.01 (VARIOUS)



- PAVEMENT LEGEND**
- 4' WIDE BITUMINOUS SURFACE TREATED SHOULDER
- SIGN LEGEND**
- EXISTING TO BE REMOVED
 - NEW SIGN

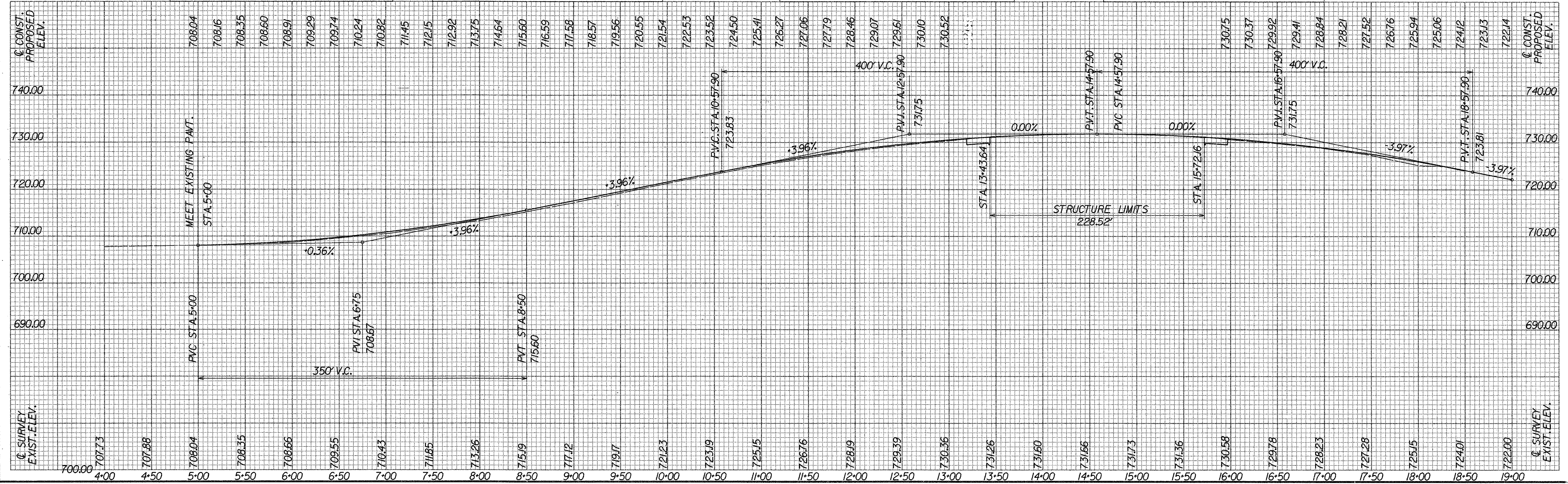


BM-STA. 6+11.30' RT. OF \odot SURVEY R.R. SPIKE IN 14' COTTONWOOD ELEV. 707.15

BM-STA. 13+44.6, 15.2' RT. OF \odot SURVEY SCRATCH ON FACE OF S.W. WINGWALL ELEV. 729.19

BM-STA. 13+45.02, 12' LT. OF \odot SURVEY \odot ABUTMENT BEAM SEAT ELEV. 726.77

BM-STA. 13+46.72, 12' RT. OF \odot SURVEY \odot ABUTMENT BEAM SEAT ELEV. 726.80



STA. 4+00 TO STA. 19+00 OIL CENTER RD.

QUANTITIES
 CALC. BY JML DATE 5-4-92
 CKD. BY HTG DATE 5-5-92
 Revised 9-16-92

SUBSUMMARY

ITEM	EXT.	TOTAL	UNIT	DESCRIPTION
-ROADWAY-				
202	22900	89	SQ. YD.	APPROACH SLAB REMOVED (T = 13")
202	38000	2200	LIN. FT.	GUARDRAIL REMOVED
203	12000	1826	CU. YD.	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION
203	20000	243	CU. YD.	EMBANKMENT
203	50000	6474	SQ. YD.	SUBGRADE COMPACTION
301	10002	679	CU. YD.	BITUMINOUS AGGREGATE BASE, AC-20
605	31100	730	LIN. FT.	AGGREGATE DRAIN
606	13000	3175	LIN. FT.	GUARDRAIL, TYPE 5
606	25000	4	EACH	ANCHOR ASSEMBLY, TYPE A
606	35000	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1
802	00300	36	EACH	BARRIER REFLECTOR, TYPE A2 (WHITE)
802	00400	6	EACH	BARRIER REFLECTOR, TYPE B2 (WHITE)
-TRAFFIC CONTROL-				
630	03100	31	LIN. FT.	GROUND MOUNTED SUPPORT, NO. 4 POST
630	80100	13	SQ. YD.	SIGN, FLAT SHEET
630	84900	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
630	86002	2	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
-EROSION CONTROL-				
659	10000	4240	SQ. YD.	SEEDING AND MULCHING
659	65000	9	MGAL.	WATER
659	20000	0.37	TON	COMMERCIAL FERTILIZER
-PAVEMENT-				
304	20001	1238	CU. YD.	AGGREGATE BASE, AS PER PLAN
402	20000	228	CU. YD.	ASPHALT CONCRETE, AC-20
404	20000	163	CU. YD.	ASPHALT CONCRETE, AC-20
409	12500	30	CU. YD.	SEAL COAT COVER AGGREGATE NO. 8 FOR SHOULDERS
409	21000	1087	GALLON	SEAL COAT BITUMINOUS MATERIAL FOR SHOULDERS
611	25000	162	SQ. YD.	REINFORCED CONCRETE APPROACH SLAB (T=15")

EARTH WORK AND SEEDING TABLE

Station	From	To	203	203	659
			Excav. Not Including Embank. Cu. Yd.	Embank. Cu. Yd.	Seeding & Mulching Sq. Yd.
	4+00	7+00	185	58	950
	7+00	11+00	490	40	859
	11+00	15+97.2	200	15	427
	15+67.2	18+00	147	10	268
	18+00	19+00	270	0	170
	19+00	23+00	265	101	1011
	23+00	27+00	269	19	555
Total to Subsummary			1826	243	4240

AGGREGATE DRAIN TABLE

Station	From	To	Side	Item	Description	Total
5+00	13+00	LT.	605	Aggregate Drain	17 @ 10' Avg. = 170 Lin. Ft.	
5+25	12+75	RT.	605	Aggregate Drain	16 @ 10' Avg. = 160 Lin. Ft.	
16+00	25+50	LT.	605	Aggregate Drain	20 @ 10' Avg. = 200 Lin. Ft.	
16+25	25+50	RT.	605	Aggregate Drain	20 @ 10' Avg. = 200 Lin. Ft.	
Totals to Subsummary						730 Lin. Ft.

GUARDRAIL TABLE "G"

Ref.	Station		Side	202	606	606	606	802	802
	From	To		Guardrail Removed Lin. Ft.	Guardrail Type 5 Lin. Ft.	Anchor Assem. Type A Each	Bridge Term. Assem. Type 1 Each	Barrier Reflect. Type A2 Each	Barrier Reflect. Type B2 Each
1-G	5+00	10+85	LT.	337.5	587.5	35'	1	7	
2-G	5+00	10+85	RT.	337.5	587.5	35'	1	7	
3-G	11+14	13+47	LT.	262.5	243.75	35'		2	3
4-G	11+14	13+49	RT.	262.5	243.75	35'		2	3
5-G	15+69	18+11	LT.	250	256.25	35'		3	
6-G	15+69	18+11	RT.	250	256.25	35'		3	
7-G	18+41	23+40	LT.	250	500.0	35'	1	6	
8-G	18+41	23+40	RT.	250	500.0	35'	1	6	
Totals to Subsummary				2200	3175		4	36	6

SIGN TABLE

Ref.	Station	Side	Sign Code Number	Sign in Inches	630	Removal of Ground Mounted Sign And Disposal Each	Removal of Ground Mounted Support And Disposal Each
					Flat Sheet Sign Sq. Ft.		
1-S	8+00	RT.	W-83-30	30x30	6.25	15	1
2-S	20+00	RT.	W-94-30	30x30	6.25	16	1
Totals to Subsummary					12.50	31	2

W7530IX.DGN

SEEDING
SQ. YDS.
END WIDTH

45

411

29

350

34

189

0

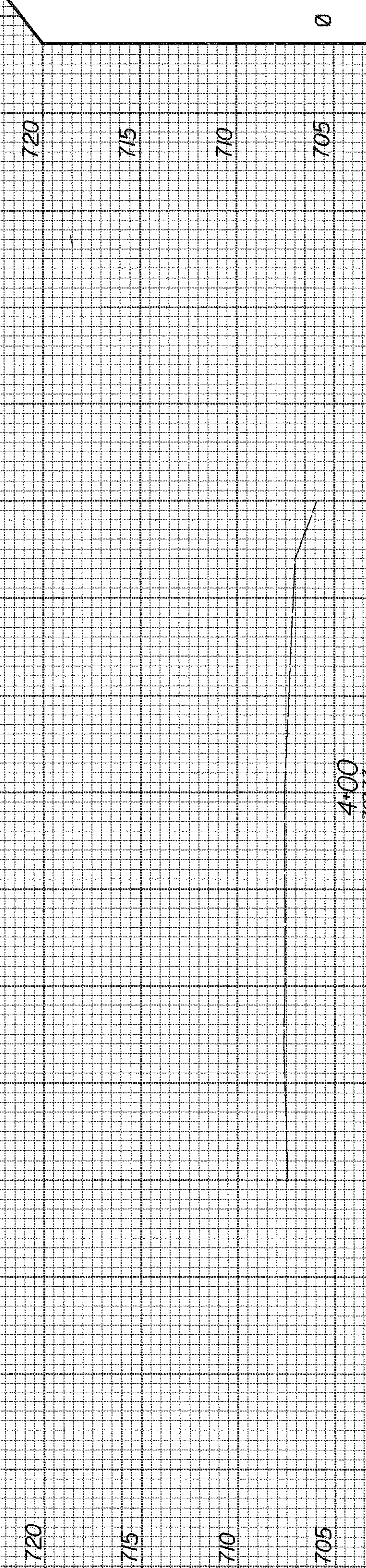
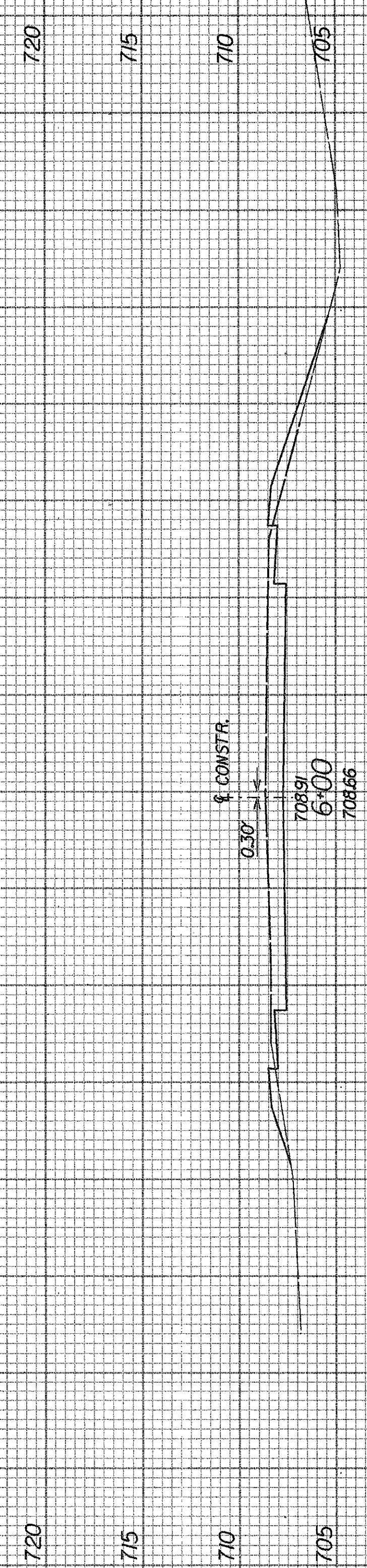
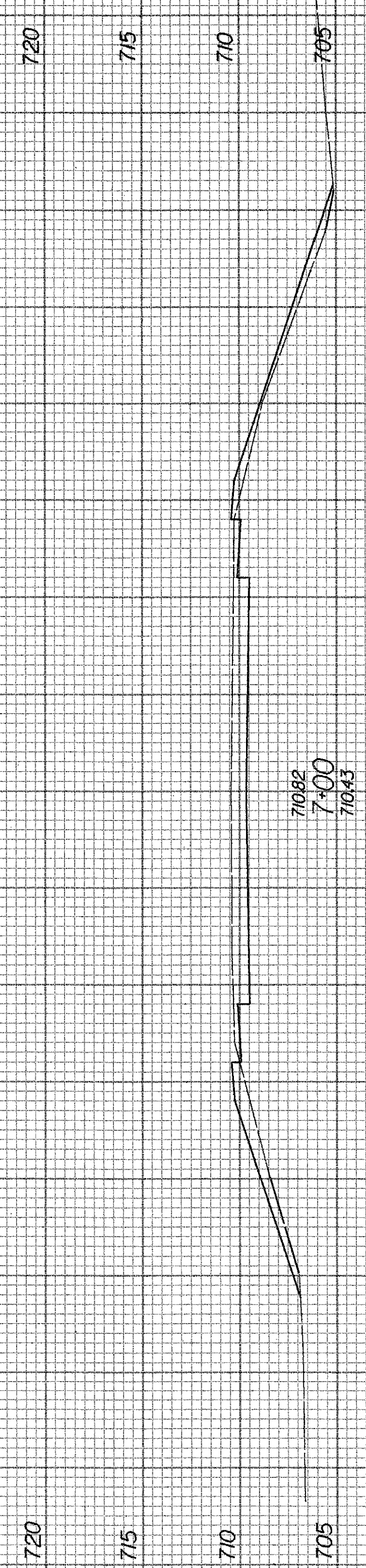
950 SHEET TOTAL

C SURVEY & CONST.
OIL CENTER RD.

C SURVEY & CONST.

& CONST.

C SURVEY & CONST.
OIL CENTER RD.



END AREA
CUT
FILL

VOLUME
CUT
FILL

19 11

22 6

32 4

59 7
-50

76 32

100 19

CALC BY JML
DATE 5-4-92

W00-75-3.0(VARIOUS)

CHKD BY MTG
DATE 5-3-92

OHIO
FHWA
REGION 5

14
116

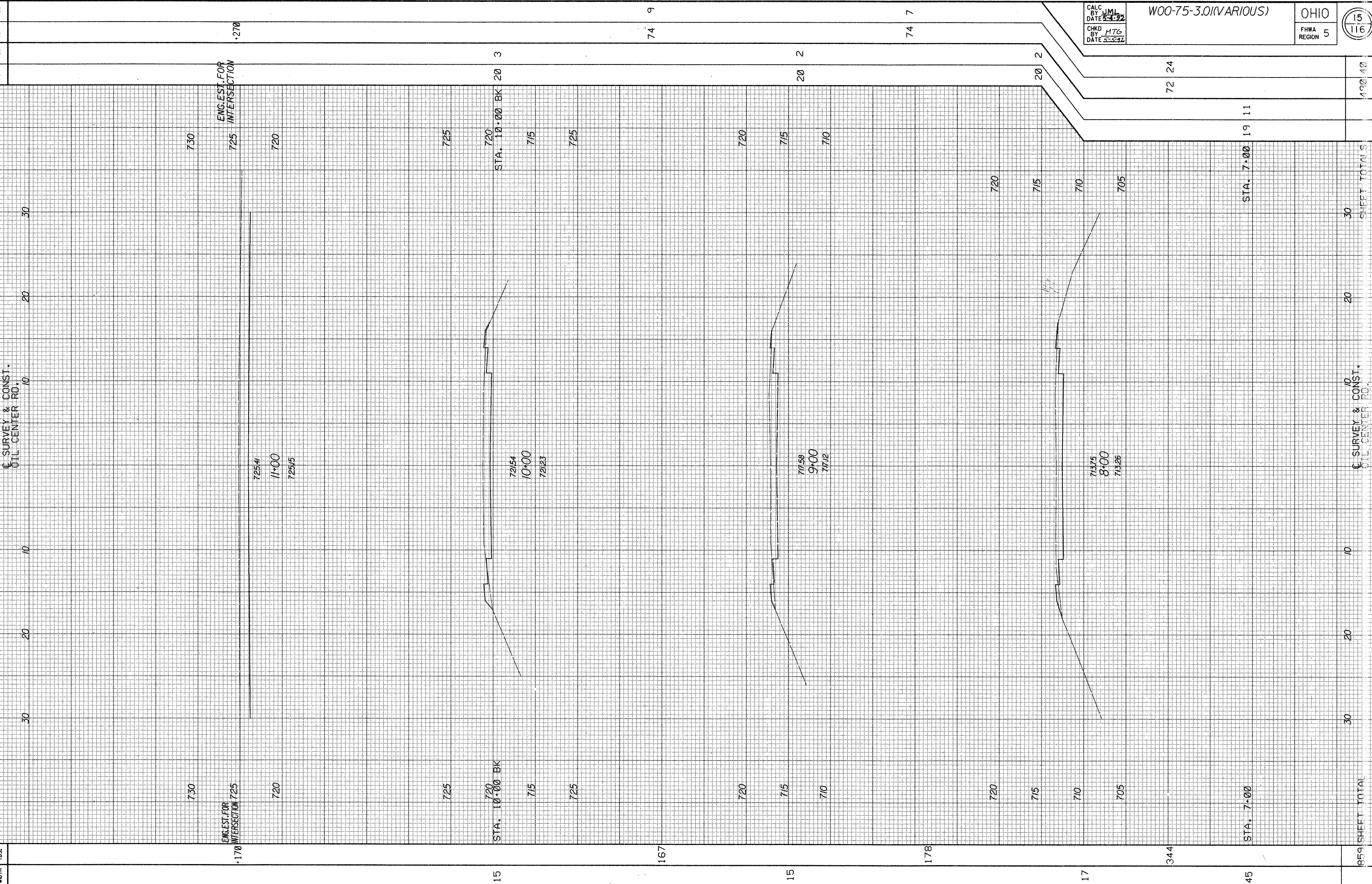
SHEET TOTALS

185 58

W75301X.DGN

SEEDING
SQ. YD. 188.

END AREA
CUT FILL
VOLUME
CUT FILL



Q SURVEY & CONST.
OIL CENTER RD.

Q SURVEY & CONST.
OIL CENTER RD.

ENG. EST. FOR
INTERSECTION

ENG. EST. FOR
INTERSECTION

STA. 10+00 BK 20 3

STA. 10+00 BK

20 2

15

74 7

178

20 2

17

72 24

344

STA. 7+00 19 11

45

1859 SHEET TOTAL

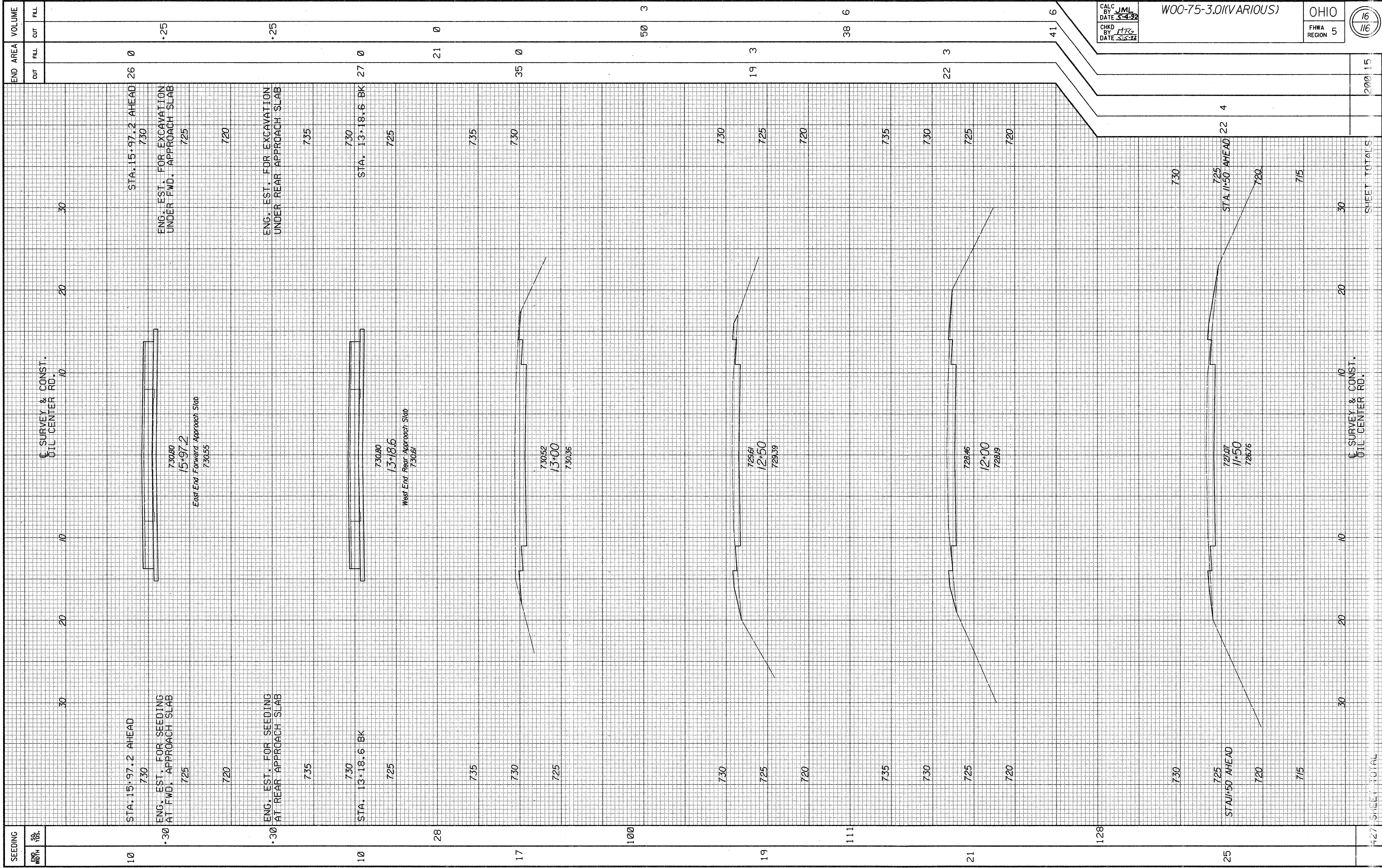
490 40
SHEET TOTALS

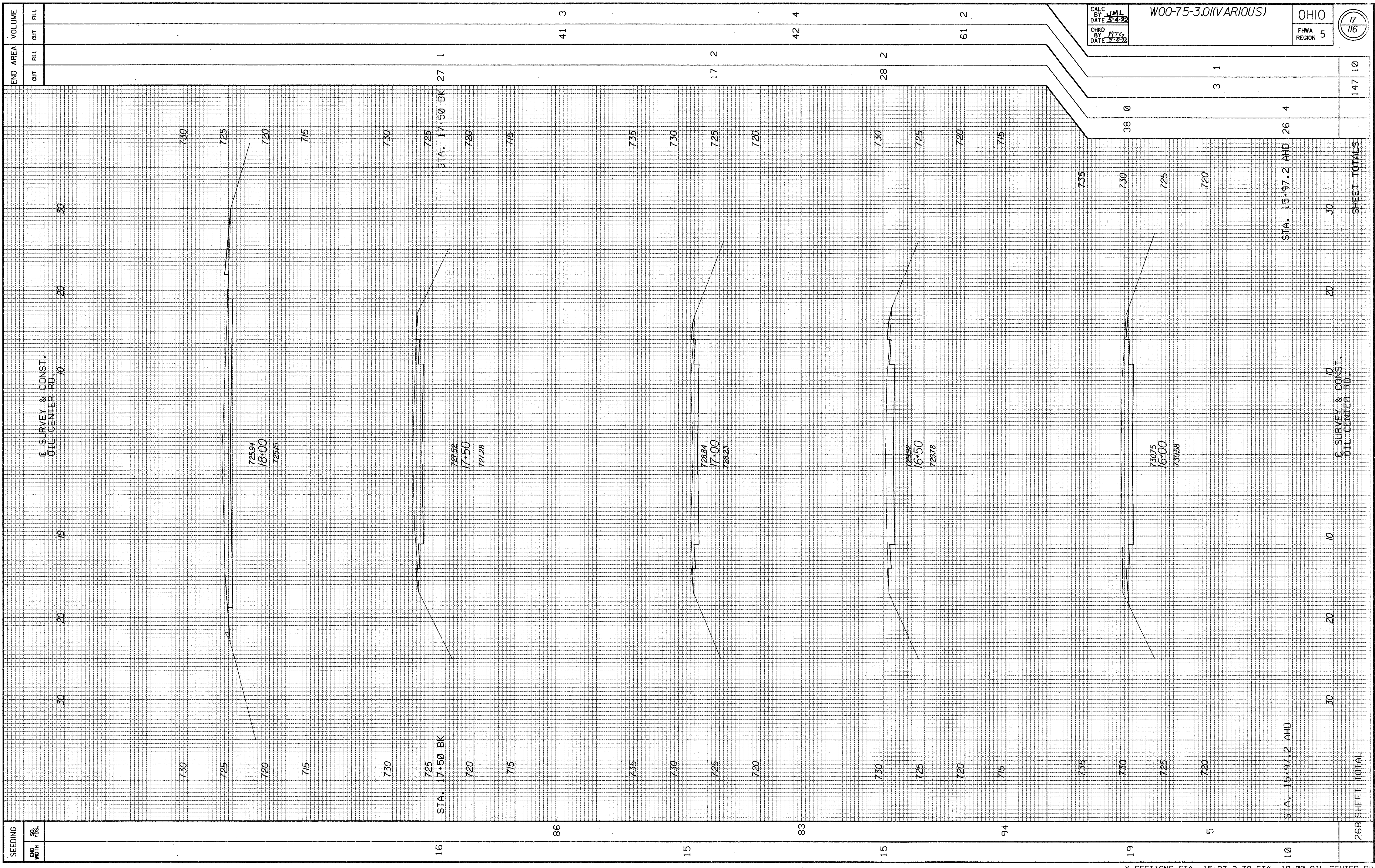
CALC BY JML
DATE 5-4-92
CHKD BY MTG
DATE 5-5-92

W00-75-3.0(VARIOUS)

OHIO
FHWA REGION 5

15
116





SEEDING	END AREA	VOLUME	
		CUT	FILL
16			
15			
15			
19			
10			
268 SHEET TOTAL		147	10

CALC BY JML DATE 5-4-92 CHKD BY MTG DATE 3-3-92	WOO-75-3.0(VARIOUS)	OHIO FHWA REGION 5	
--	---------------------	-----------------------	--

X-SECTIONS STA. 15+97.2 TO STA. 18+00 OIL CENTER RD.

SEEDING
END WIDTH SQ. YDS.

16
170
170

60 50 40 30 20 10 0 10 20 30 40

© SURVEY & CONST.
OIL CENTER RD. 10

QUANTITIES
CALC BY JML DATE 5-4-92
CKD BY MTG DATE 5-6-92

FHWA REGION	STATE	PROJECT
5	OHIO	

18
116

W00-75-3.01 (VARIOUS)

END AREA VOLUME
CUT FILL CUT FILL

720
STA 19+00 AHD

715

710

722+14
19+00
722+00

720
STA 19+00 AHD

715

710

21 3

730

725
ENG. EST. FOR INTERSECTION

720

18+26
724.97

730

725
ENG. EST. FOR INTERSECTION

720

270

170 SHEET TOTAL

60 50 40 30 20 10 0 10 20 30 40 50 60

© SURVEY & CONST. 10
OIL CENTER RD.

SHEET TOTALS

270

NEW30IX.DGN

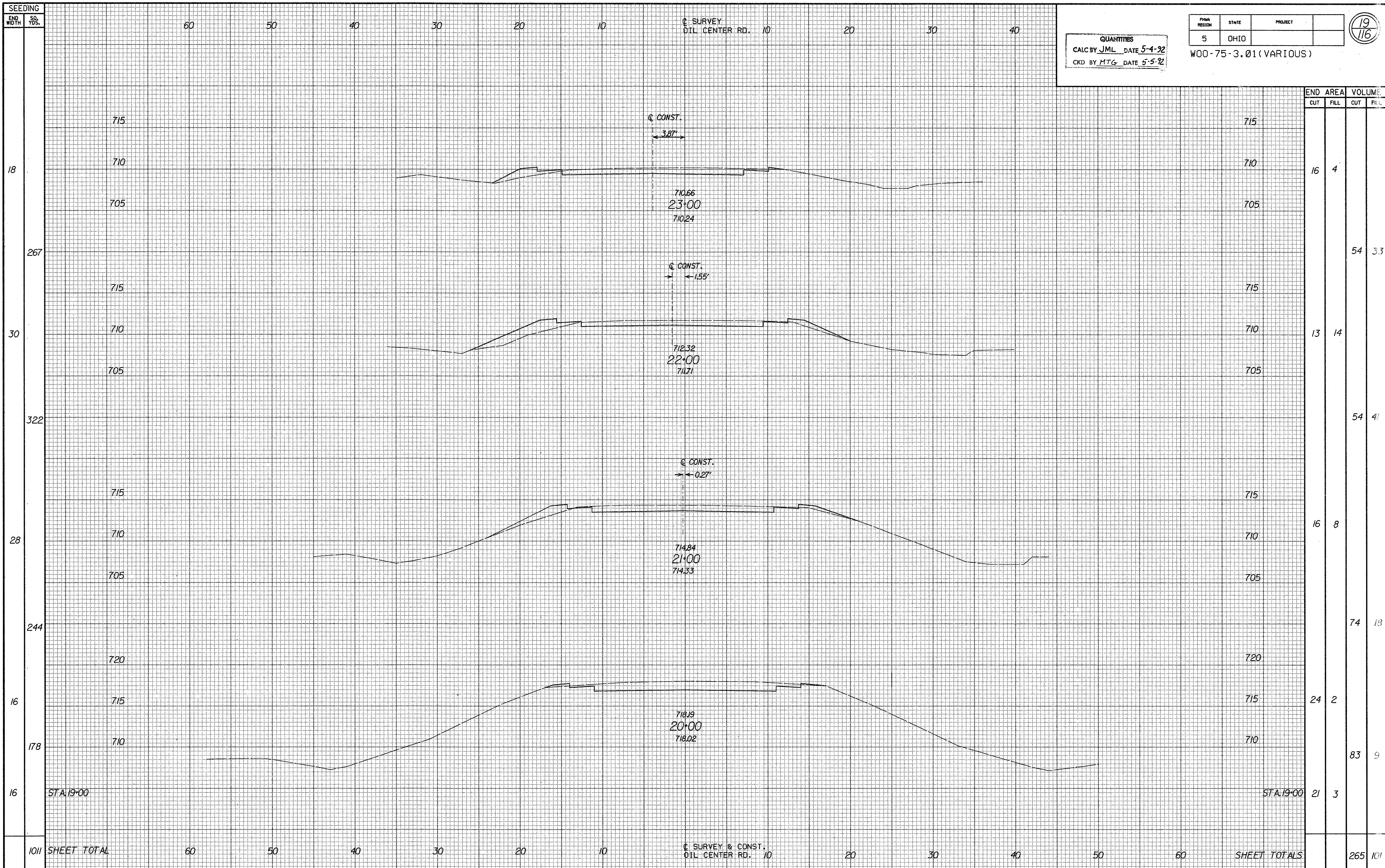
SEEDING
END WIDTH SQ. YDS.

FINA REGION	STATE	PROJECT
5	OHIO	

19
116

QUANTITIES
CALC BY JML DATE 5-4-92
CKD BY MTG DATE 5-5-92

W00-75-3.01 (VARIOUS)



END CUT	AREA FILL	VOLUME	
		CUT	FILL
16	4		
		54	33
13	14		
		54	41
16	8		
		74	18
24	2		
		83	9
21	3		
		265	101

NEW30IX.DGN

X-SECTIONS STA. 19+00 TO STA. 23+00 OIL CENTER RD.

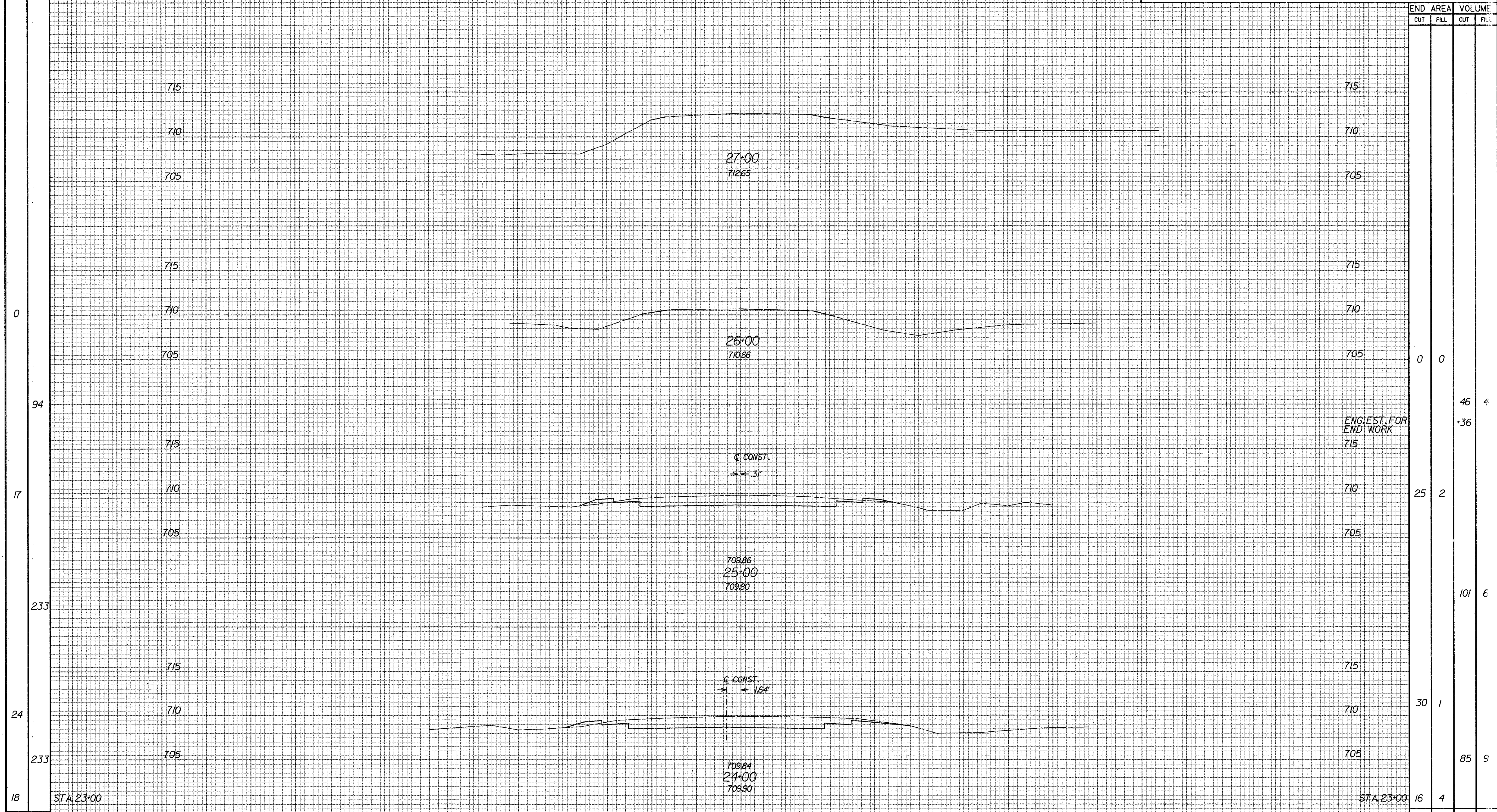
SEEDING
 END WIDTH SQ. YDS.

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SURVEY & CONST.
 OIL CENTER RD. 10

QUANTITIES	
CALC BY JML DATE 5-4-92	CKD BY MTG DATE 5-8-92
5 OHIO	PROJECT
W00-75-3.01 (VARIOUS)	

20/116



555 SHEET TOTAL 60 50 40 30 20 10 10 20 30 40 50 60 SHEET TOTALS 269 19

SURVEY & CONST.
 OIL CENTER RD. 10

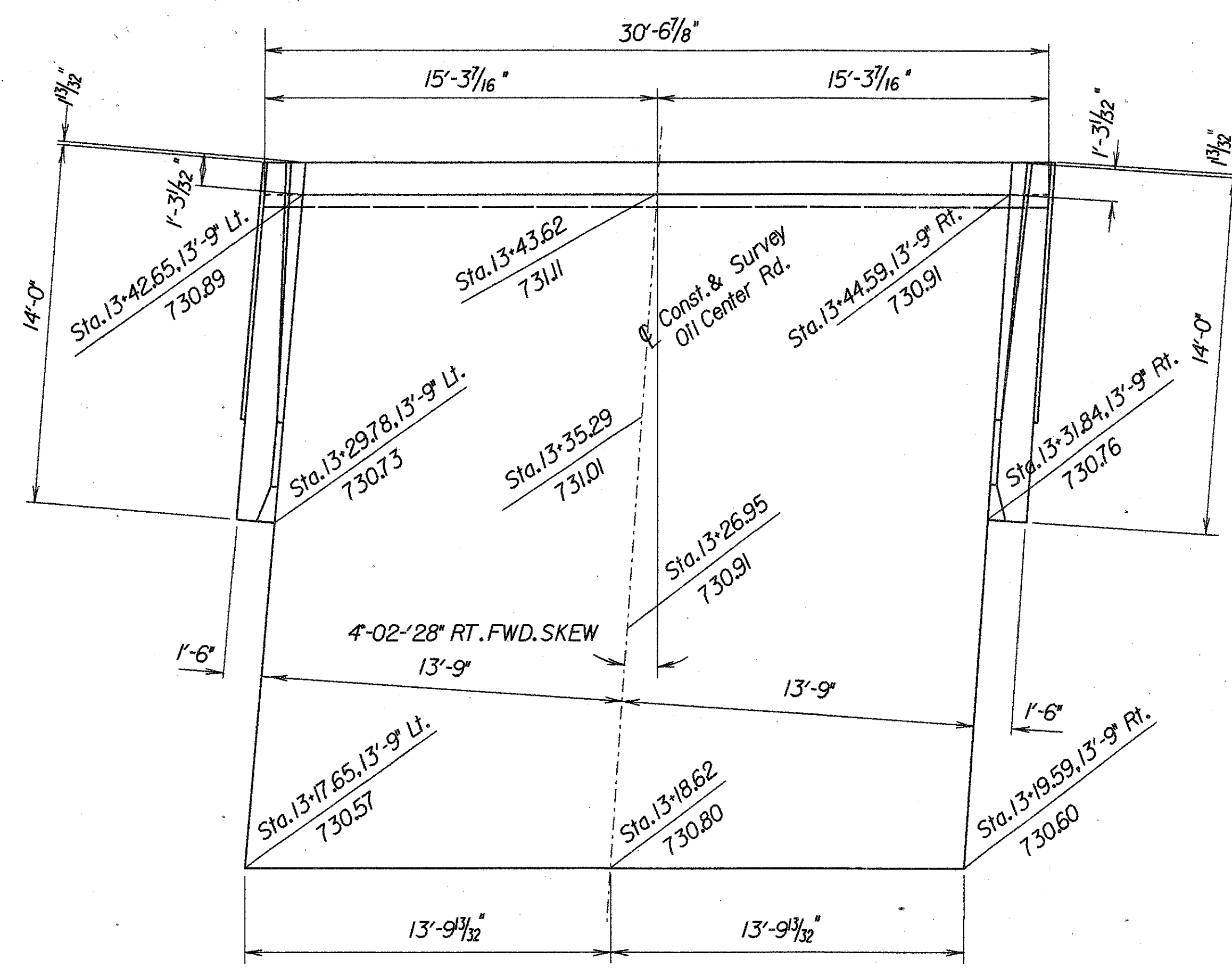
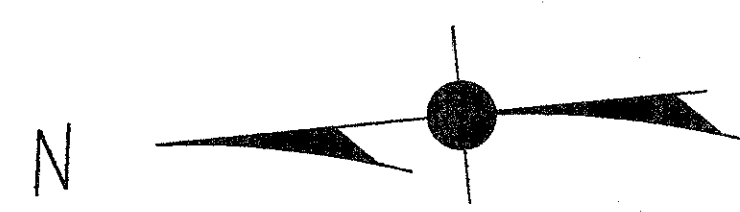
NEW 301X.DGN

FHWA REGION	STATE
5	OHIO

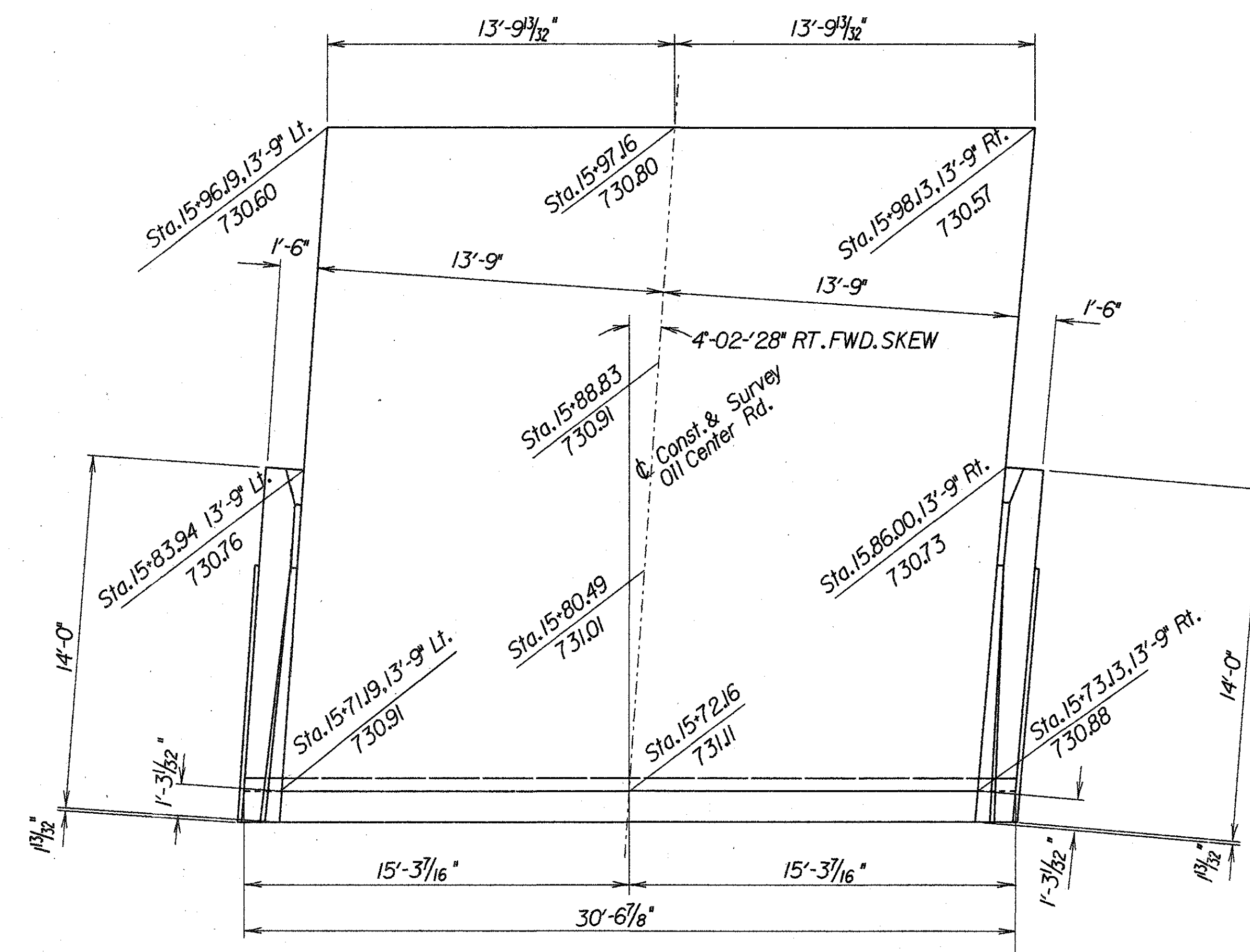
W00-75-3.01 (VARIOUS)

21
116

13
13

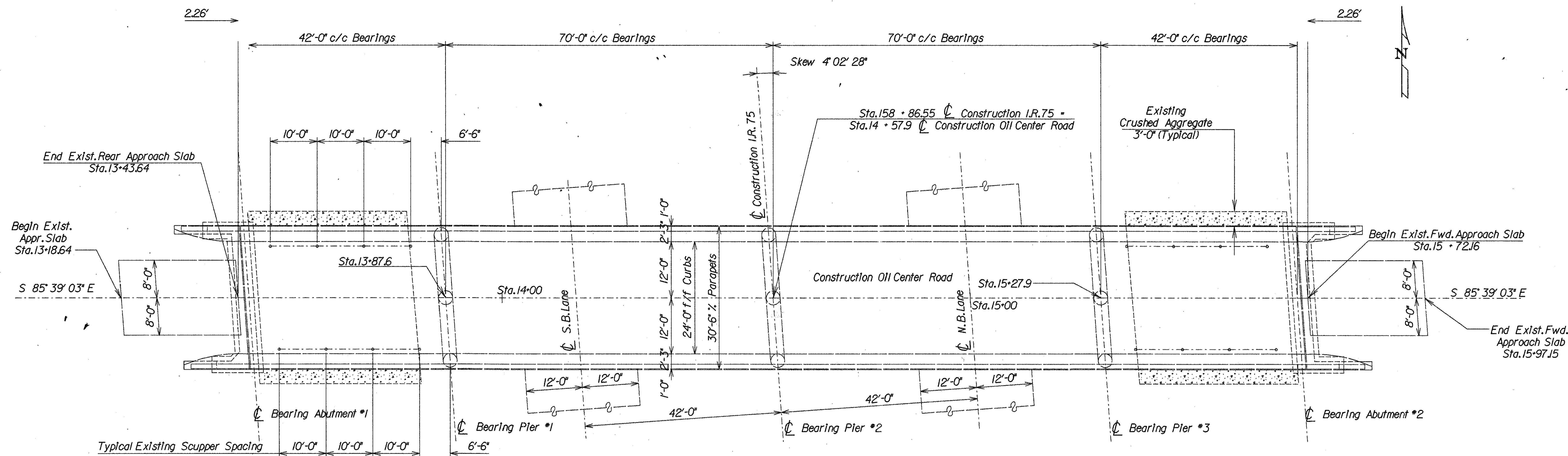


REAR APPROACH SLAB

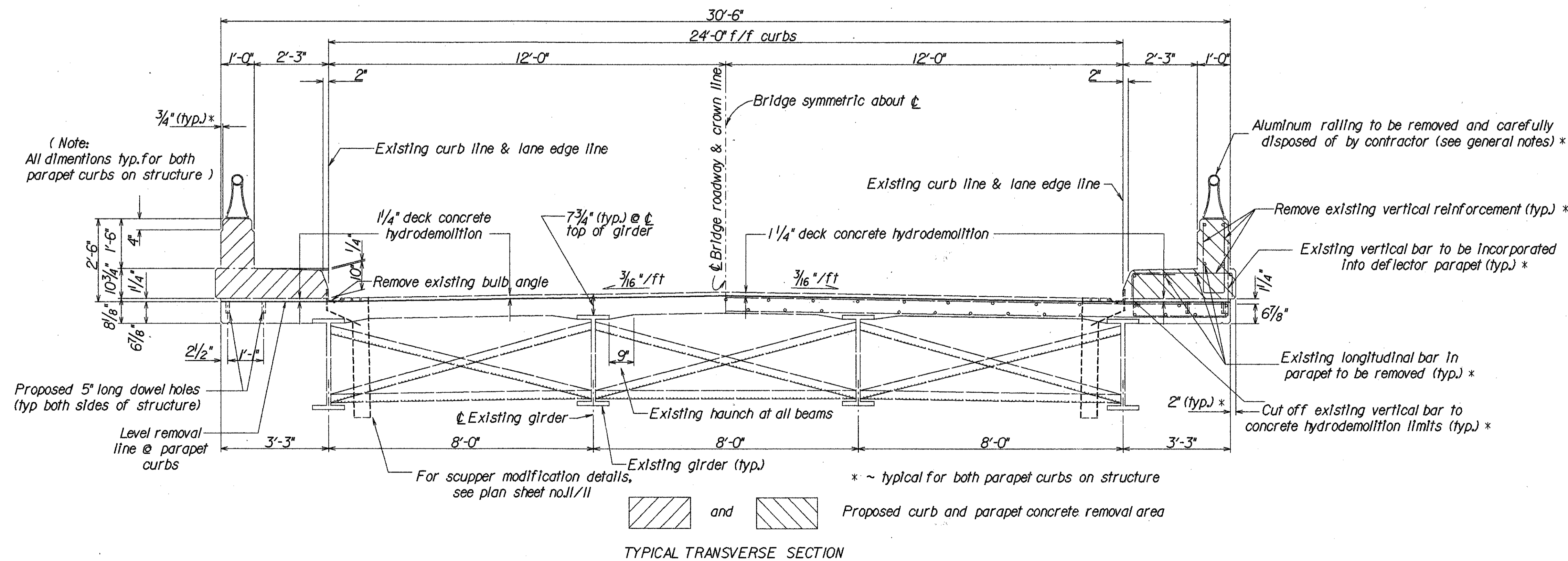


FORWARD APPROACH SLAB

Z:\FILE2002\10\17\500\AS.DGN



EXISTING PLAN



TYPICAL TRANSVERSE SECTION

EXISTING STRUCTURE DATA	
TYPE:	CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK.
	REINFORCED CONCRETE PIER BENTS & STUB ABUTMENTS
SPANS:	42'-0", 70'-0", 70'-0", 42'-0", C/C BRGS
ROADWAY:	24'-0" F/F 2'-3" SAFETY CURBS
LOADING:	H-15
SKEW:	4'-02'-28" RIGHT FORWARD
WEARING SURFACE:	3/4" MONOLITHIC CONCRETE
APPROACH SLABS:	AS-1-54 (25' LONG) SPECIAL
ALIGNMENT:	TANGENT

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

EXISTING PLAN AND TRANSVERSE SECTION
UNDER OIL CENTER ROAD
BR NO. W00-75-0301
OIL CENTER RD

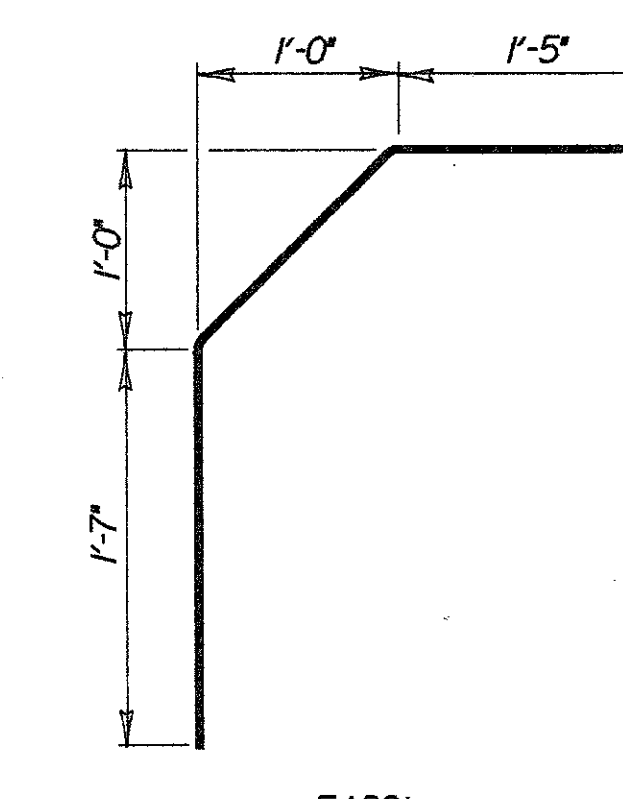
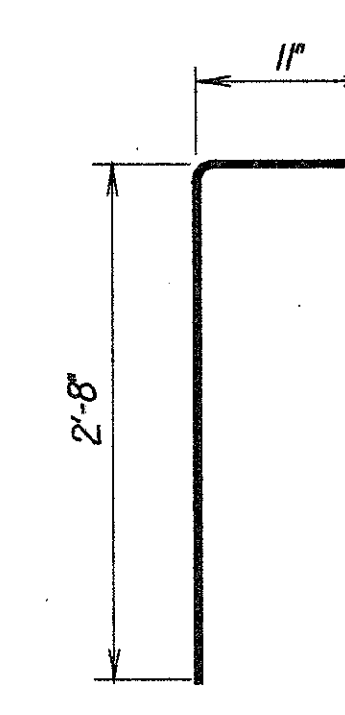
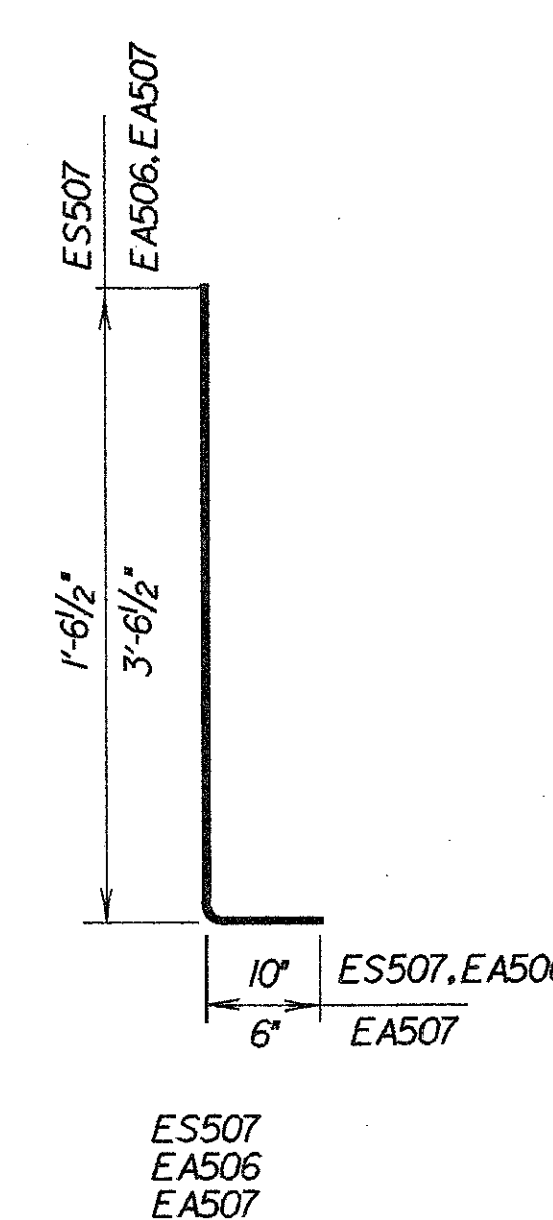
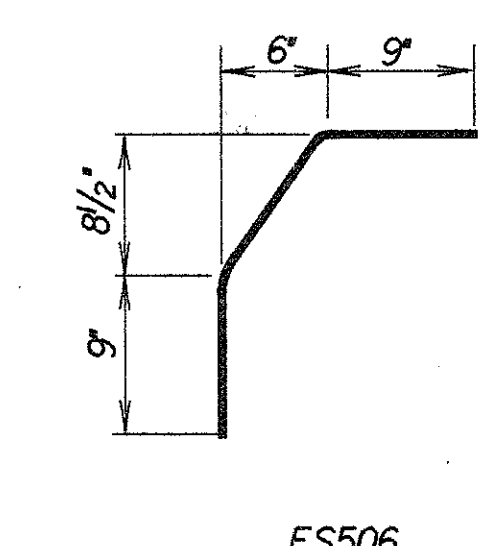
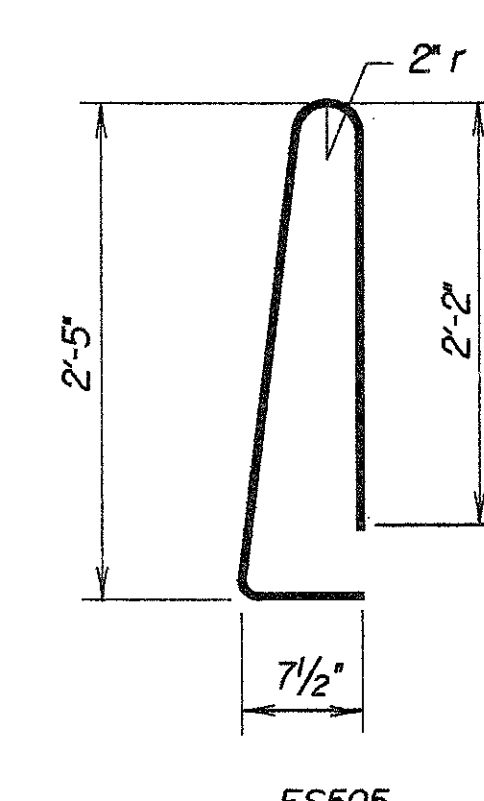
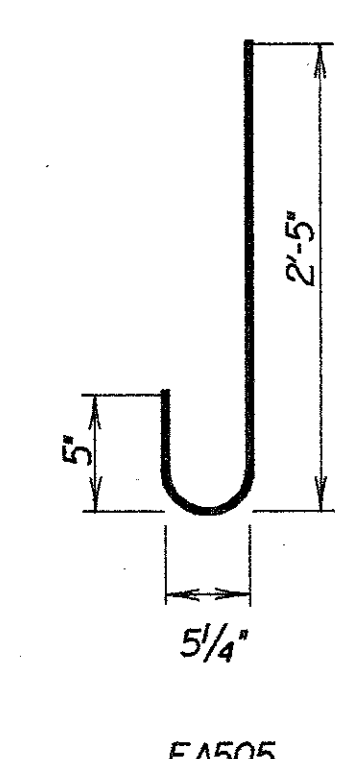
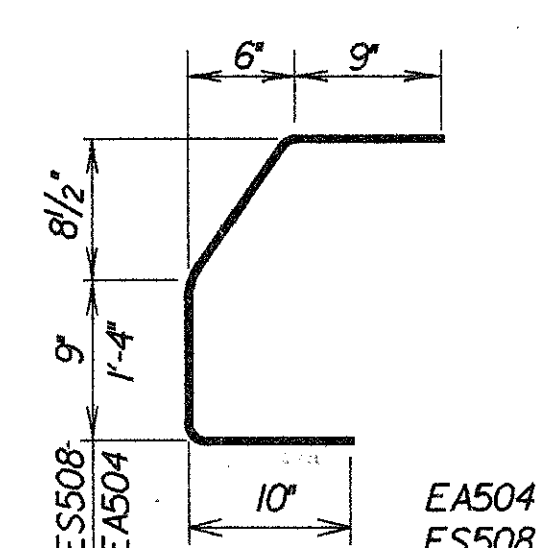
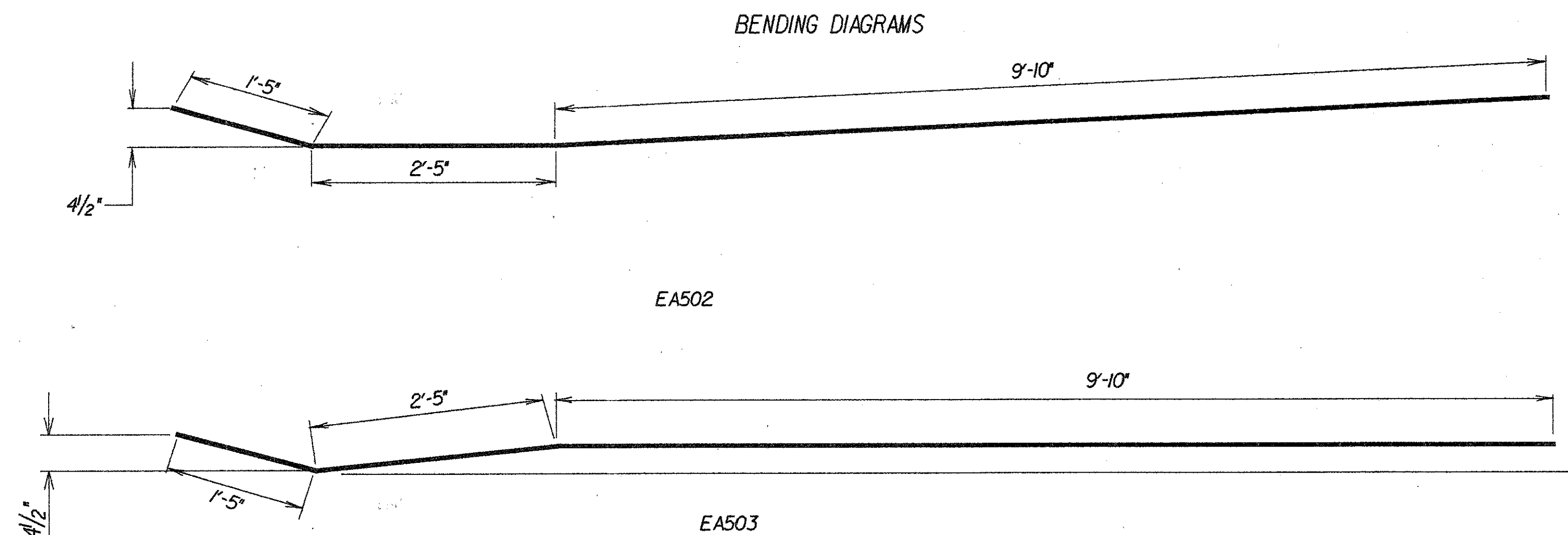
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JML			GG	LLL	7/14/92	

Z:\A\12002101\W750CEX.DGN

REINFORCING STEEL LIST

MARK	NO. IN STRUCTURE		LENGTH	WEIGHT (LBS.)	SHAPE	LAP LENGTH	DOWEL HOLES (LIN. FT.)
	LT.	RT.					
<i>Superstructure</i>							
ES501	36	36	72	26'-6"	1990	S	1'-8"
ES502	40	40	80	12'-5"	1036	S	
ES503	60	60	120	6'-2"	772	S	
ES504	163	163	326	1'-6"	510	S	136
ES505	165	165	330	5'-3"	1807	B	
ES506	163	163	326	2'-5"	822	B	136
ES507	2	2	4	2'-3"	9	B	
ES508	2	2	4	3'-1"	13	B	
ES509		12	12	30'-0"	375	S	
ES601		12	12	30'-0"	541	S	
<i>Totals for Superstructure</i>					7875		272

MARK	NO. IN ABUTMENT		LENGTH	WEIGHT (LBS.)	SHAPE	LAP LENGTH	DOWEL HOLES (LIN. FT.)
	LT.	RT.					
<i>Abutments</i>							
EA501	10	10	20	13'-8"	285	S	
EA502	4	4	8	13'-8"	114	B	
EA503	2	2	4	13'-8"	57	B	
EA504	14	14	28	3'-8"	107	B	
EA505	14	14	28	3'-0"	88	B	
EA506	24	24	48	4'-3"	213	B	
EA507	2	2	4	3'-11"	16	B	
EA508		8	8	29'-10"	248	S	
EA601	6	6	12	5'-11"	107	B	18
EA801	22	22	44	4'-11"	578	B	88
<i>Totals for Abutments</i>					1813		106



E in prefix designates epoxy coated

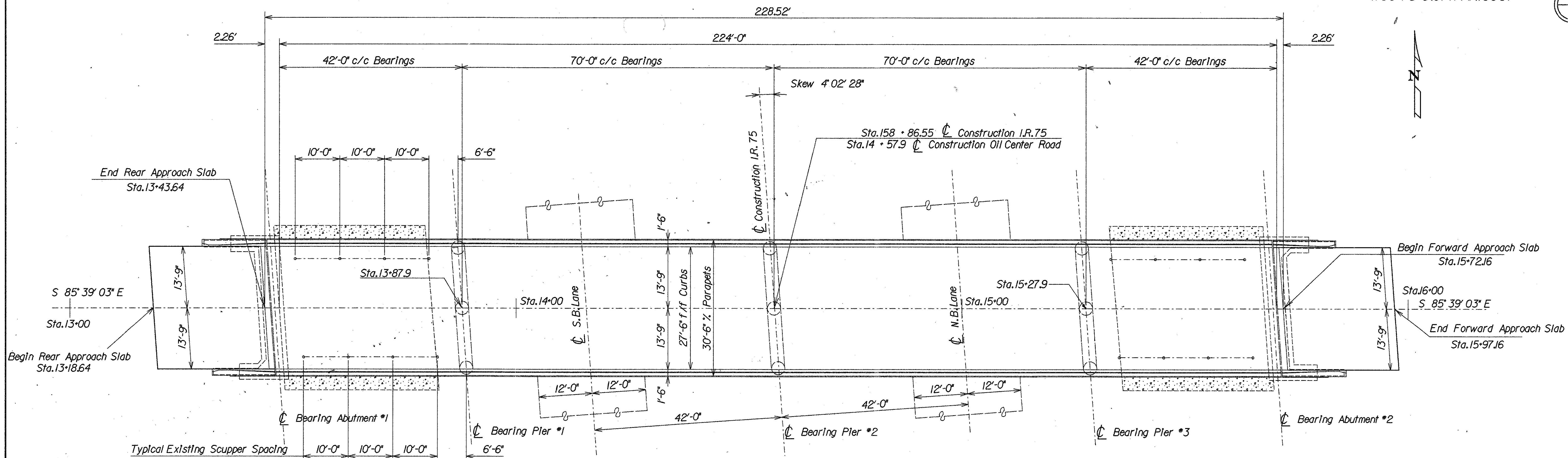
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

3 / 11

REINFORCING STEEL LIST
AND DETAILS
BRIDGE NO. W00-75-0301
OIL CENTER RD.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JML			GG	LEL	7/14/92	

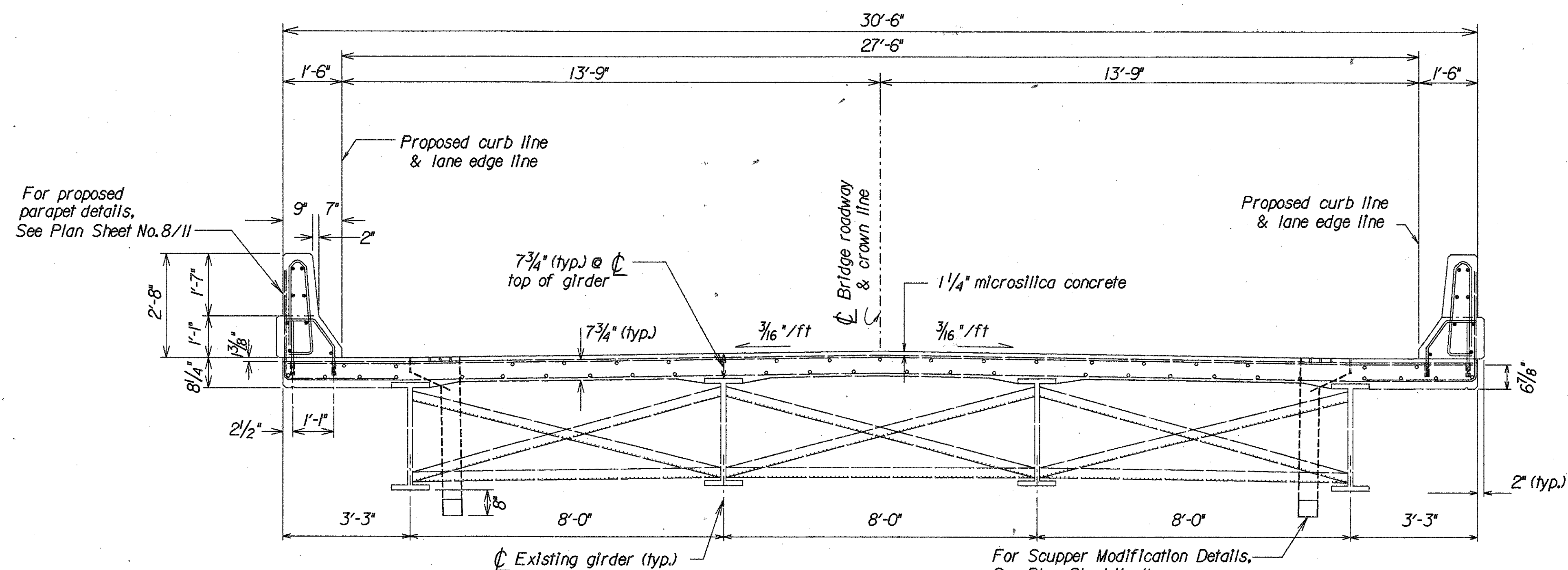
ZFA1:2002101W750CRS.DGN



PROPOSED PLAN

PROPOSED WORK
1) REMOVE 1/4" OF EXISTING DECK USING HYDRODEMOLITION
2) REMOVE EXISTING PARAPETS AND STRUCTURAL EXPANSION JOINTS
3) BUILD BRIDGE PARAPETS
4) REPLACE STRUCTURAL EXPANSION JOINTS WITH STRIP SEALS
5) OVERLAY DECK WITH 1/4" MICROSILICA MODIFIED CONCRETE
6) SEAL ABUTMENTS, PARAPETS AND WINGWALLS WITH EPOXY
7) EXTEND SCUPPER BELOW BRIDGE DECK

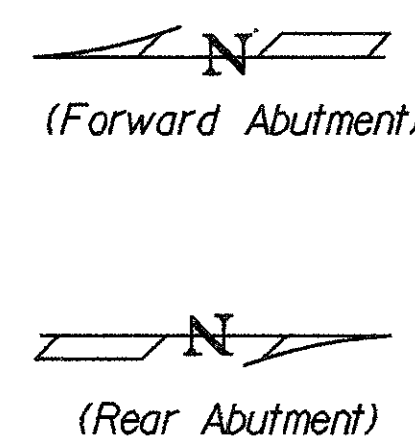
PROPOSED STRUCTURE DATA
ROADWAY: 33'-6" FACE TO FACE OF PARAPETS
WEARING SURFACE: 1/4" MICROSILICA MODIFIED CONCRETE



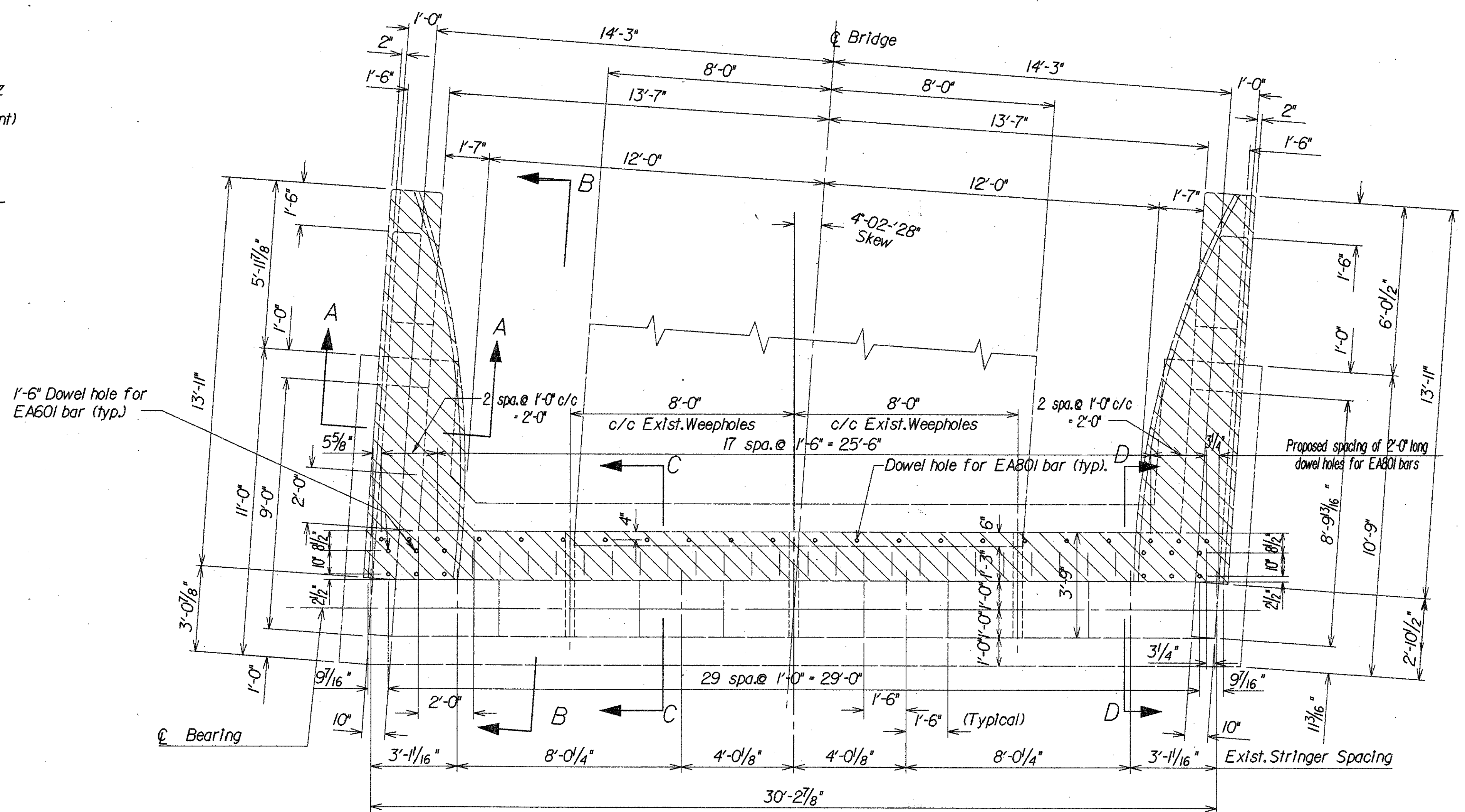
PROPOSED TRANSVERSE SECTION

PROPOSED PLAN AND TRANSVERSE SECTION
BR NO. W00-75-0301
OIL CENTER ROAD

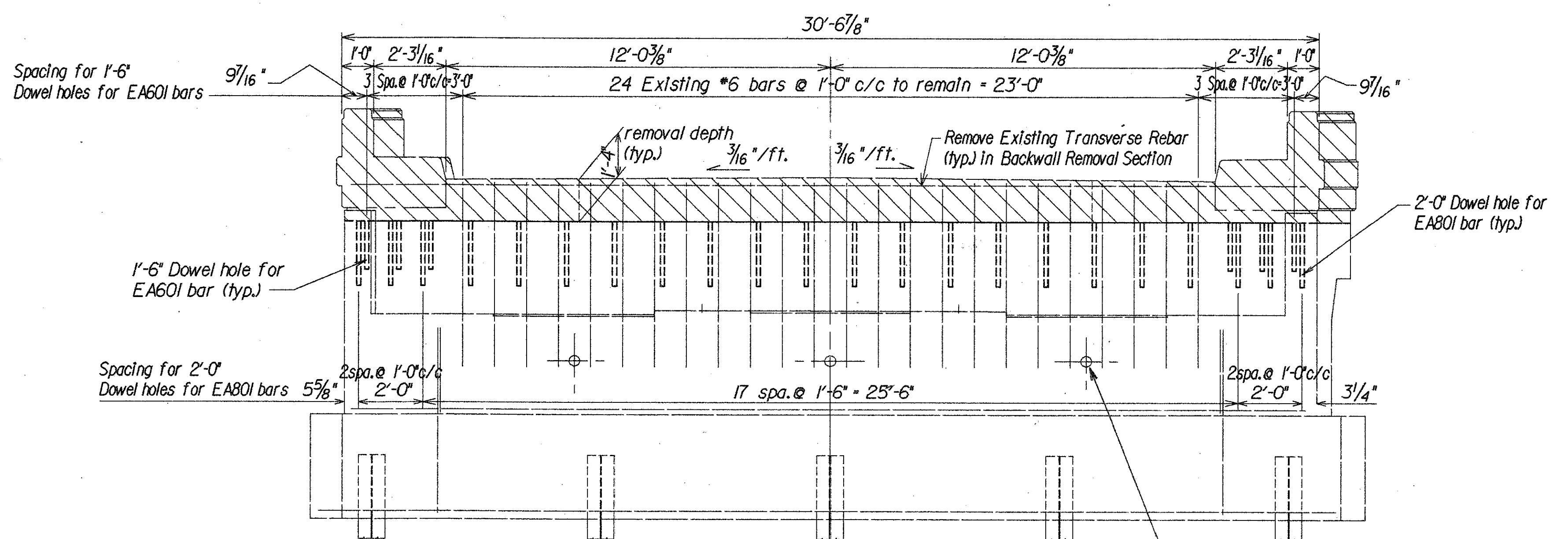
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JML			GG	LCL	7/1/14	



LEGEND
 Removal Limits



-PLAN VIEW-
 EXISTING ABUTMENT WINGWALL AND BACKWALL
 REMOVAL DETAILS



-ELEVATION-
 EXISTING ABUTMENT WINGWALL AND BACKWALL
 REMOVAL DETAILS

STATE OF OHIO
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF DESIGN AND CONSTRUCTION
 BUREAU OF BRIDGES

EXISTING ABUTMENT WINGWALL AND BACKWALL
 REMOVAL DETAILS
 BR. NO. W00-75-0301
 OIL CENTER RD.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
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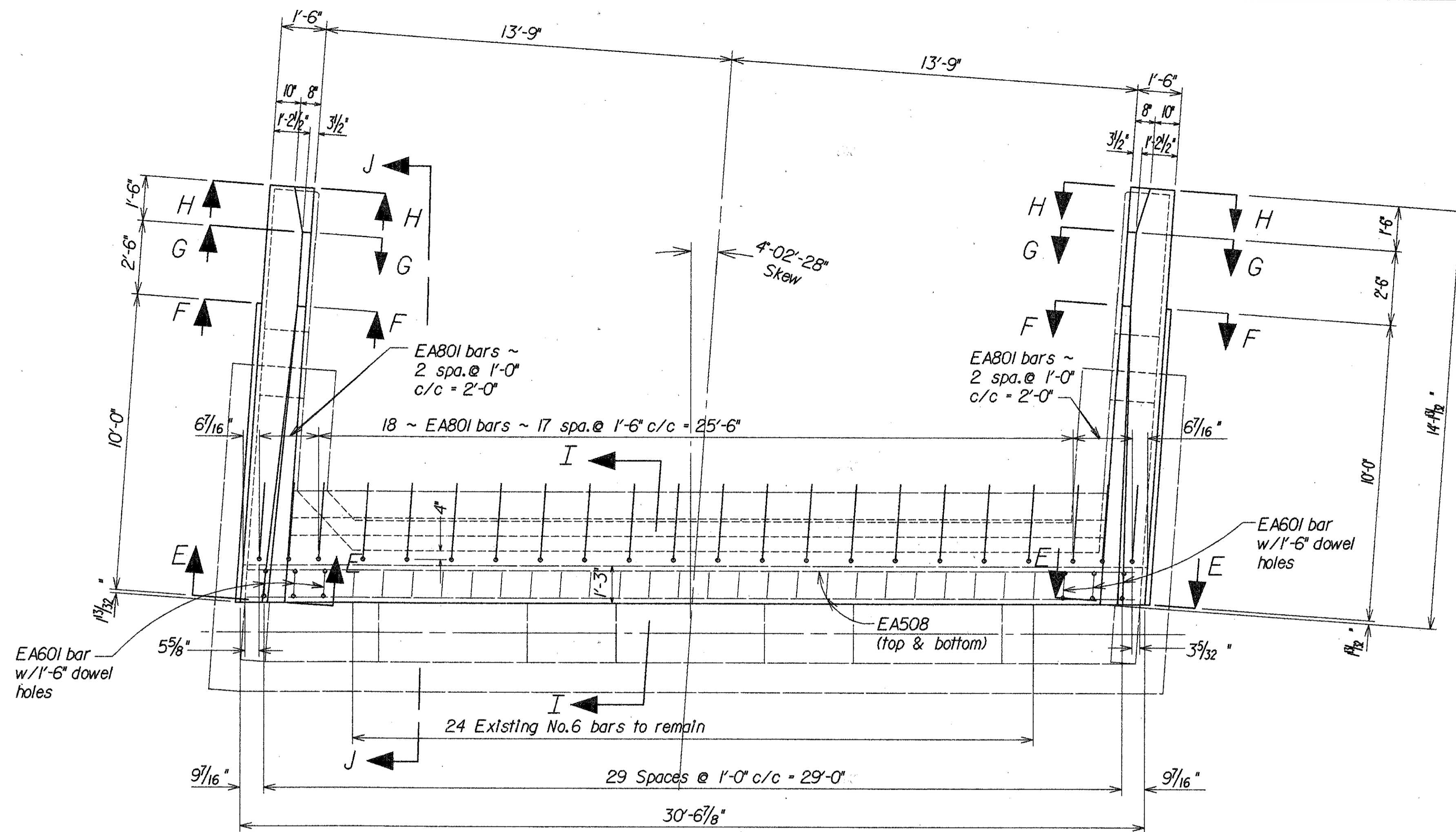
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FWA REGION	STATE	PROJECT
5	OHIO	

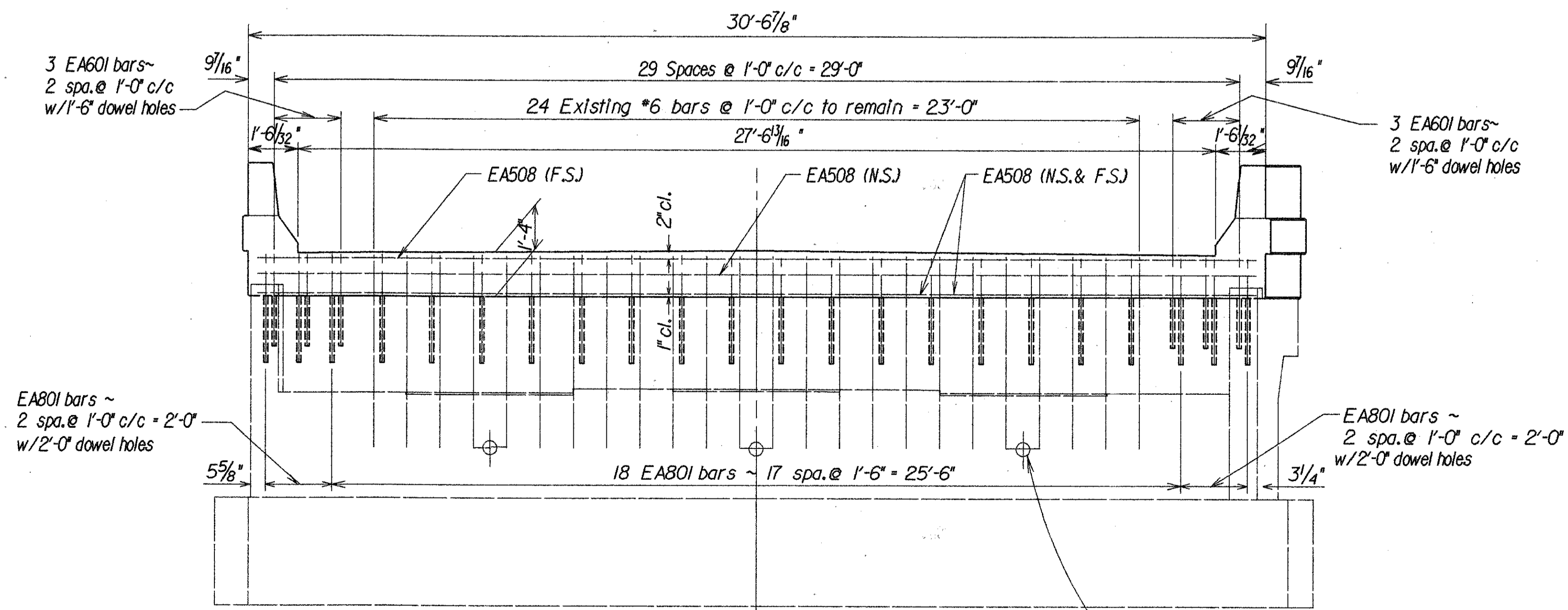
27
116

W00-75-3.01 (VARIOUS)

6
11



-PLAN VIEW-
PROPOSED ABUTMENT WINGWALL AND BACKWALL
MODIFICATION DETAILS

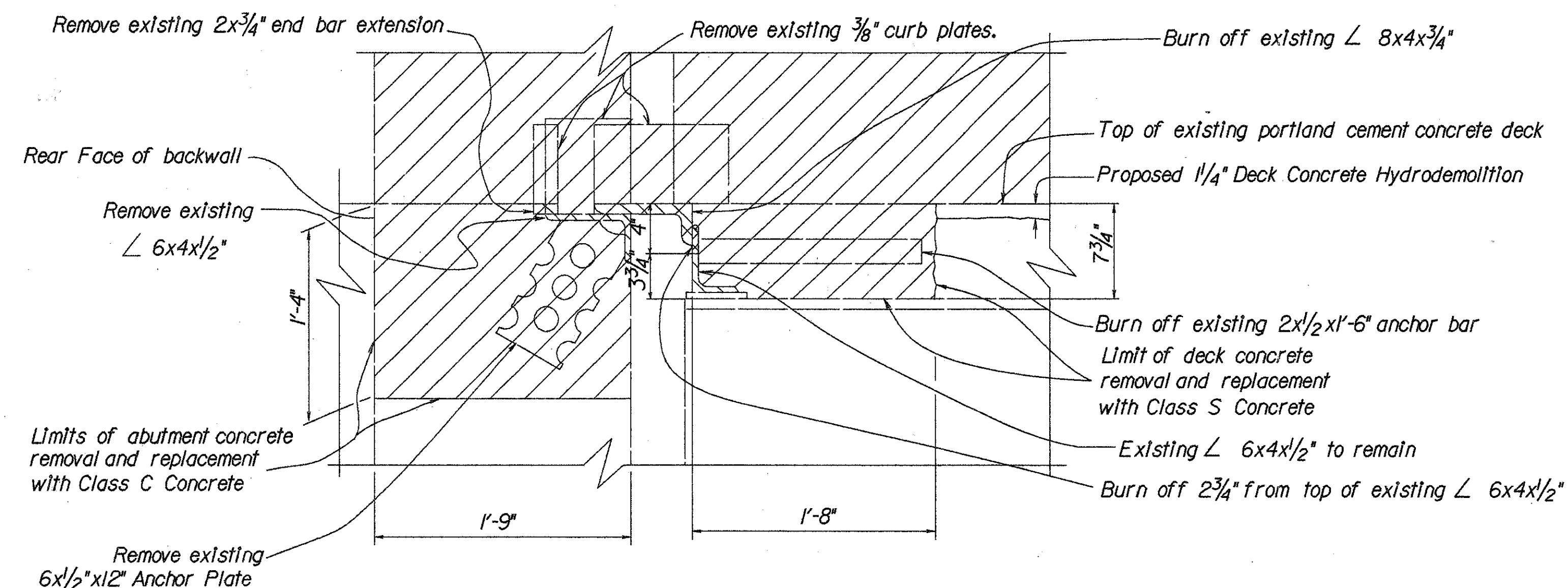
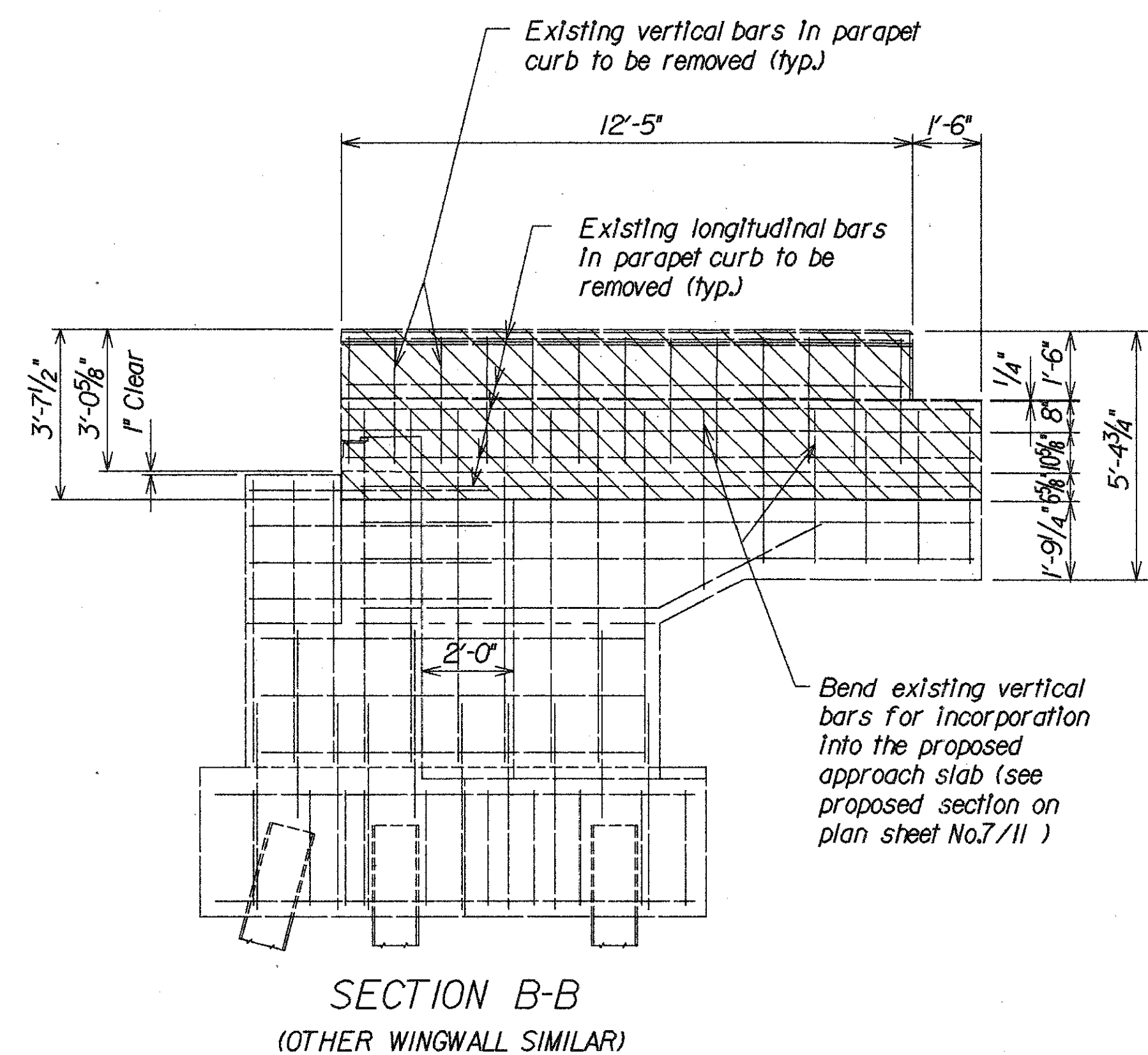
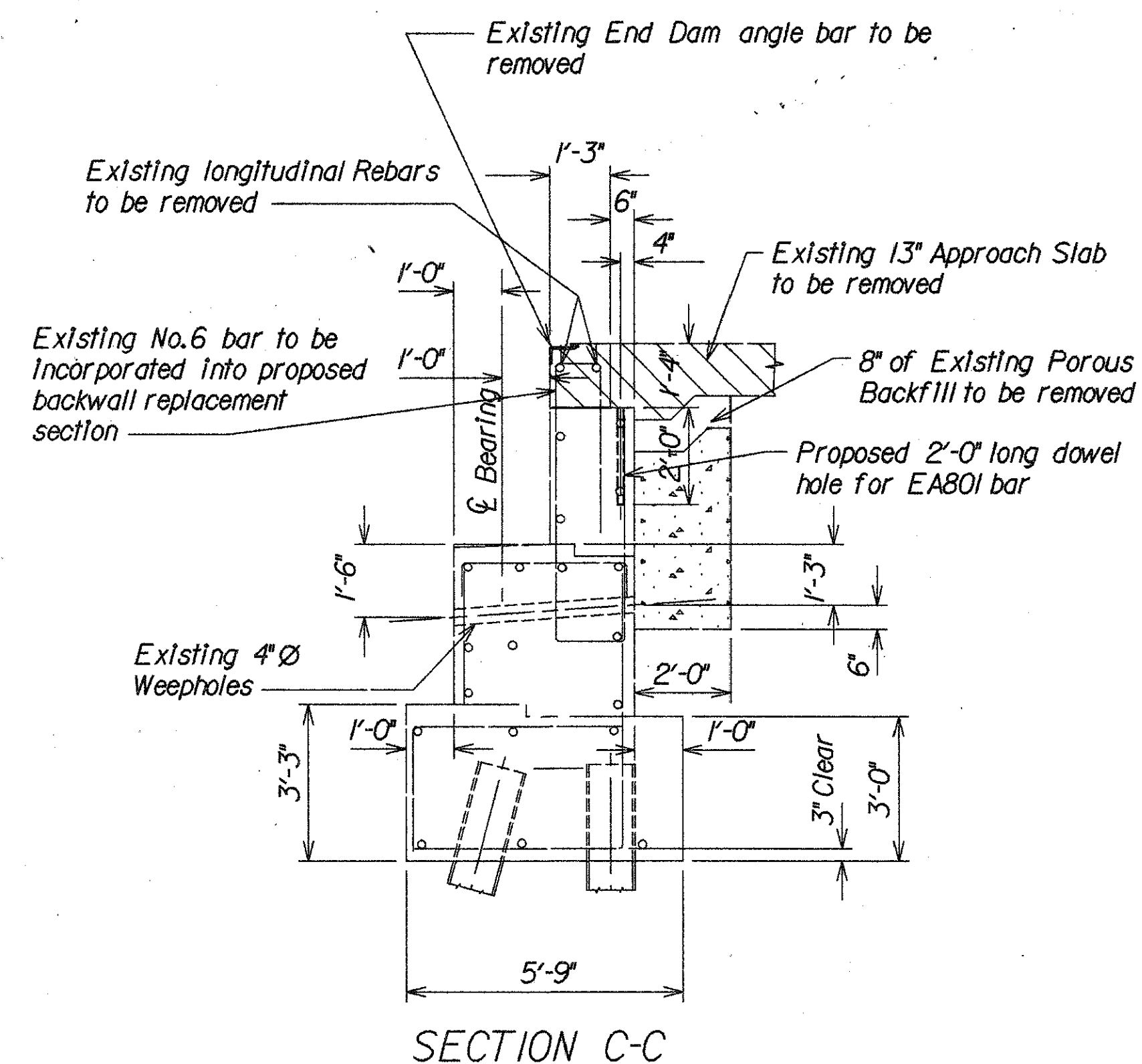
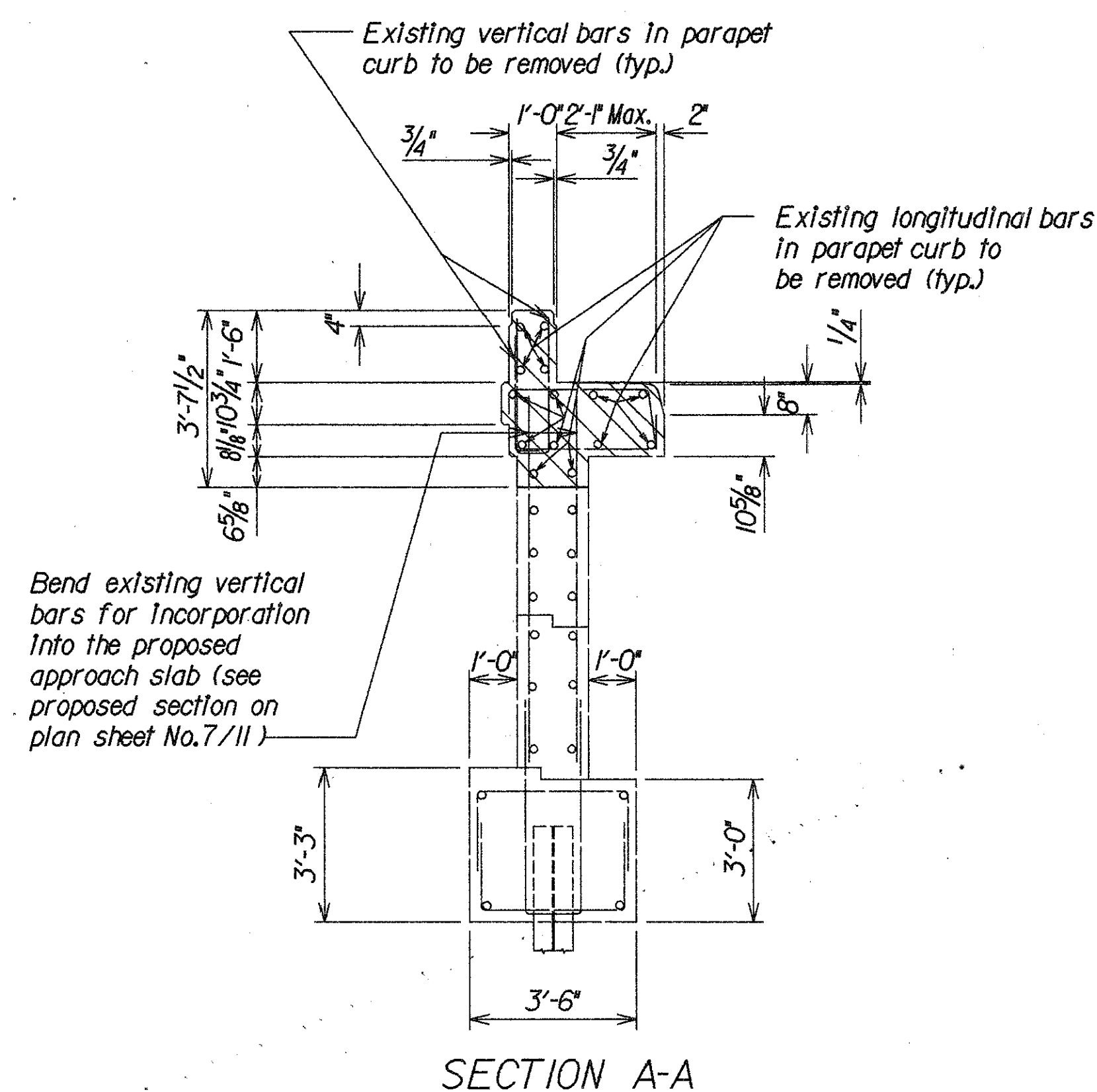


-ELEVATION-
PROPOSED ABUTMENT WINGWALL AND BACKWALL
MODIFICATION DETAILS

Modified Weephole (typ.)
(See plan sheet No. 11/11
for modification details)

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES						6 / 11
PROPOSED ABUTMENT WINGWALL AND BACKWALL MODIFICATION DETAILS BR. NO. W00-75-0301 OIL CENTER RD.						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JML			GG	LCL	7/14/92	

ZFAI:200210JW750CA.DGN:



SECTION D-D

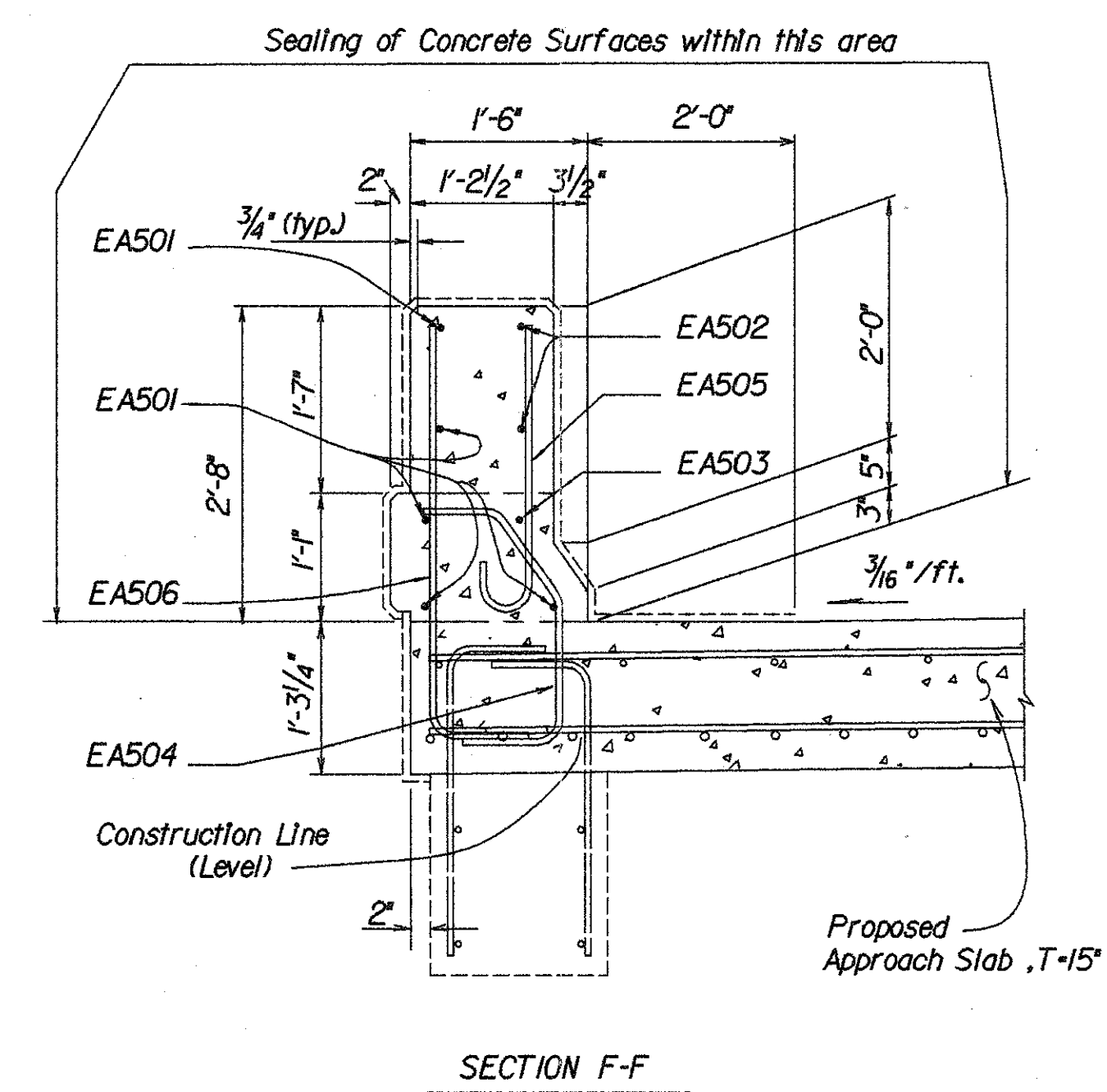
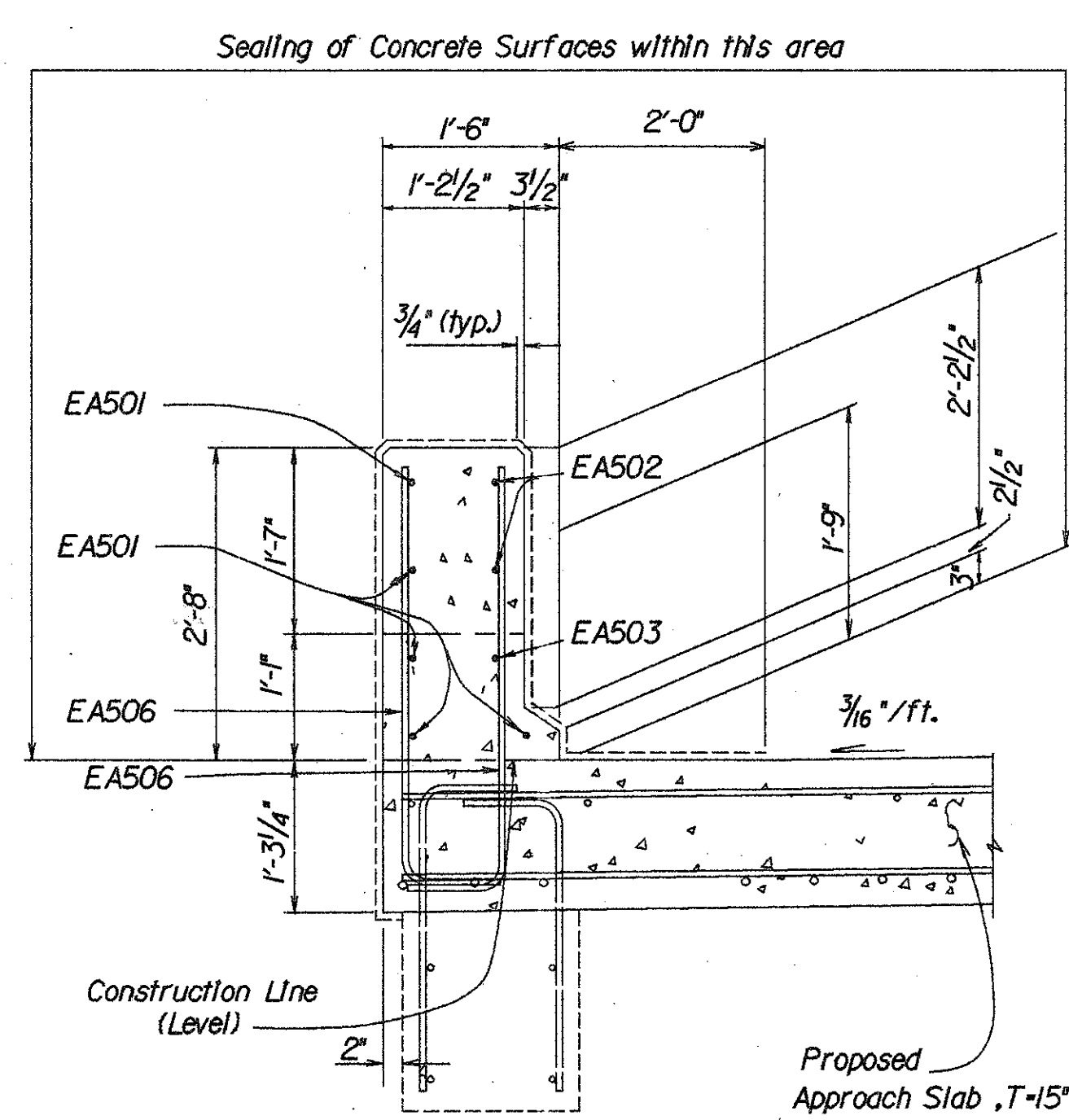
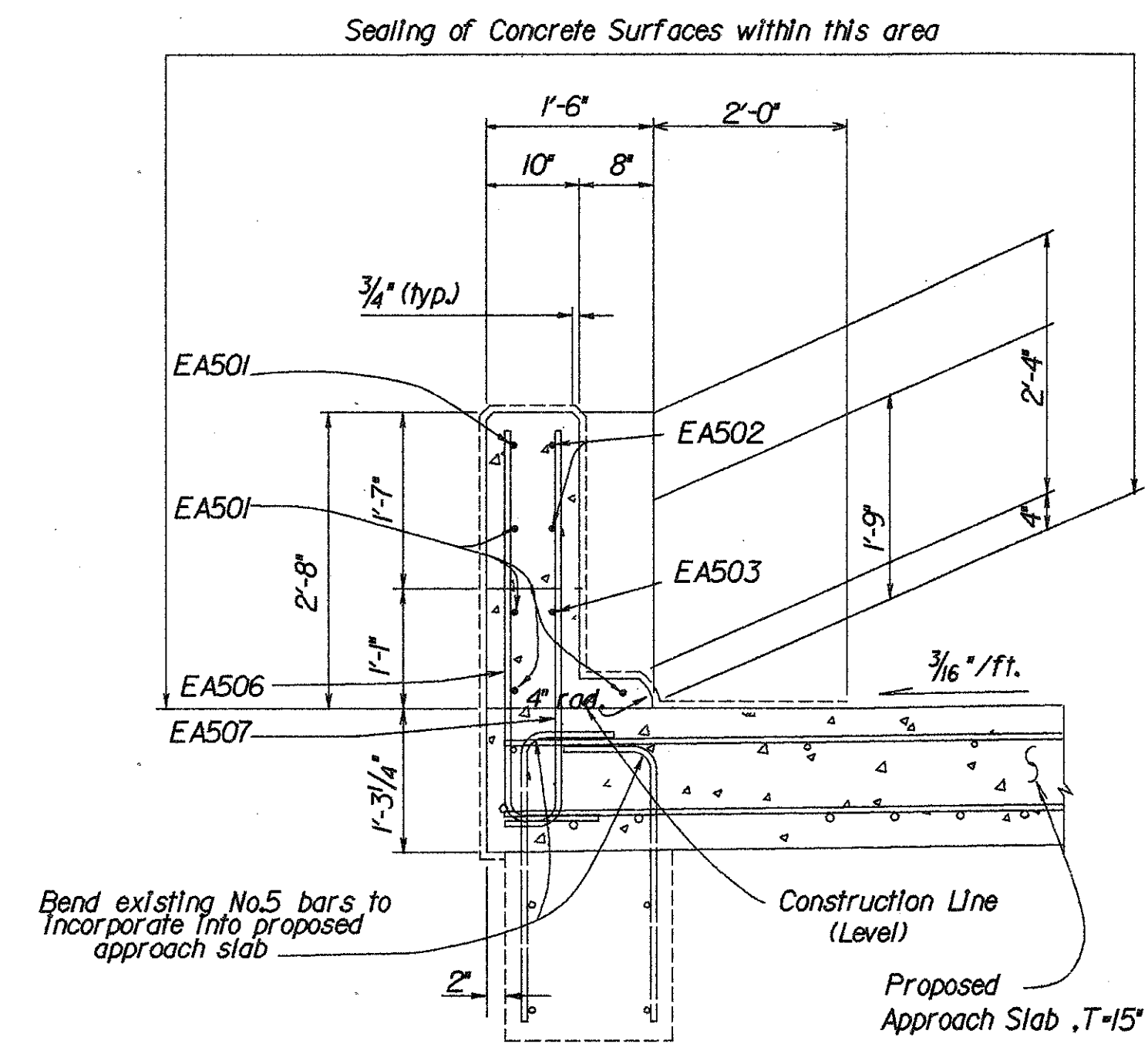
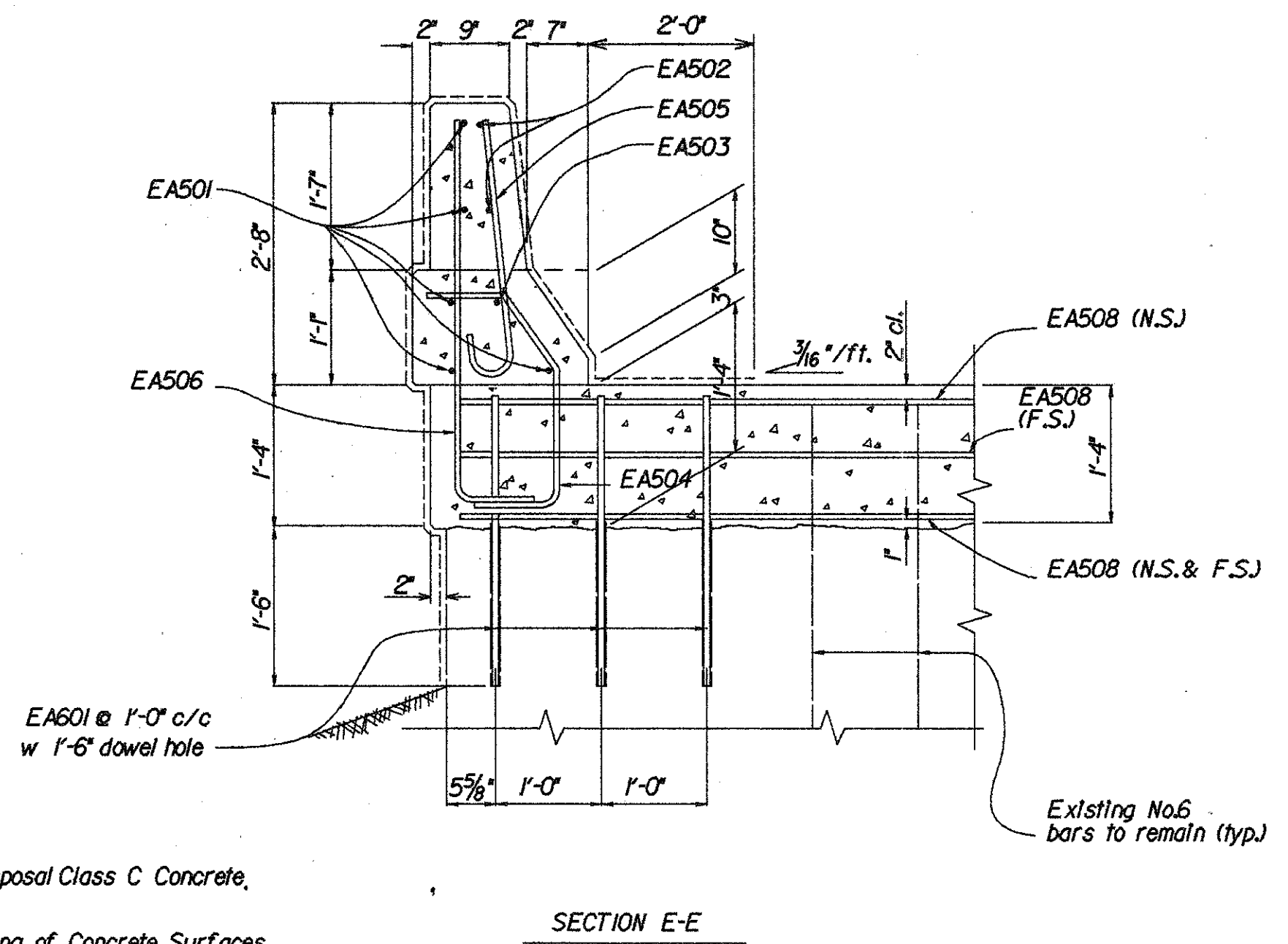
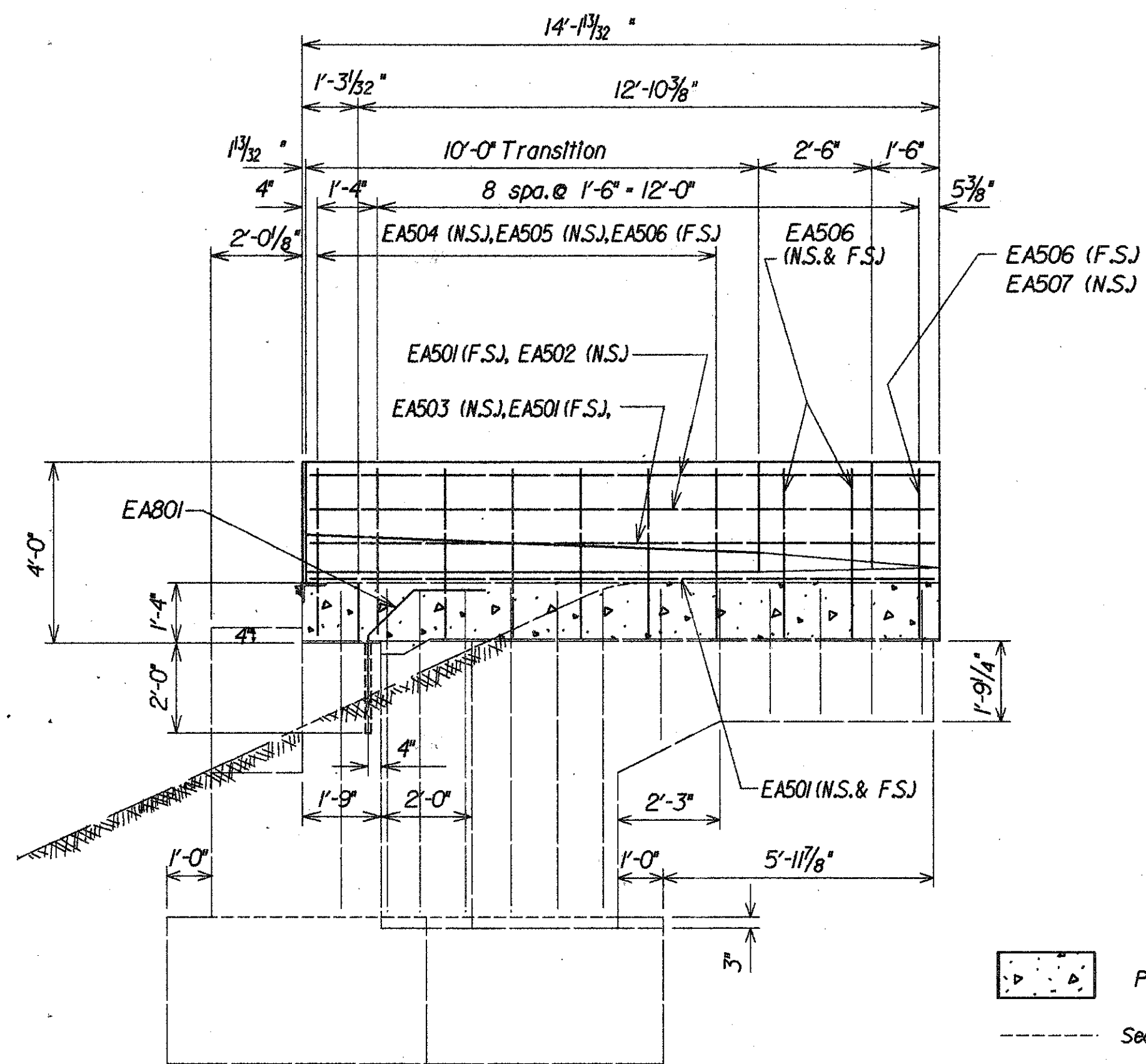
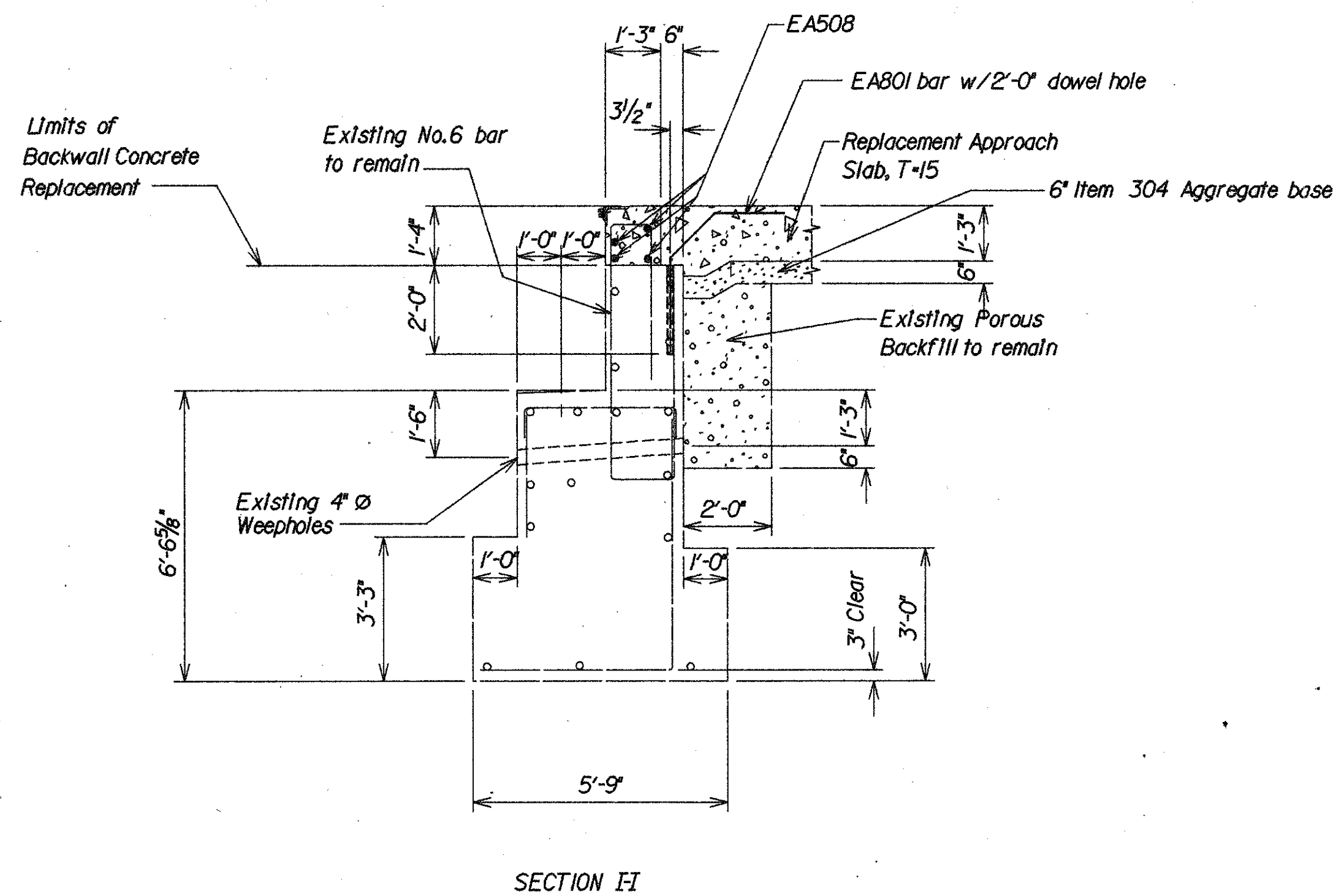
Proposed concrete removal area and/or end dam removal

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

5 / 11

PROPOSED ABUTMENT WINGWALL AND
BACKWALL MODIFICATION DETAILS
BR. NO. W00-75-0301
OIL CENTER RD.

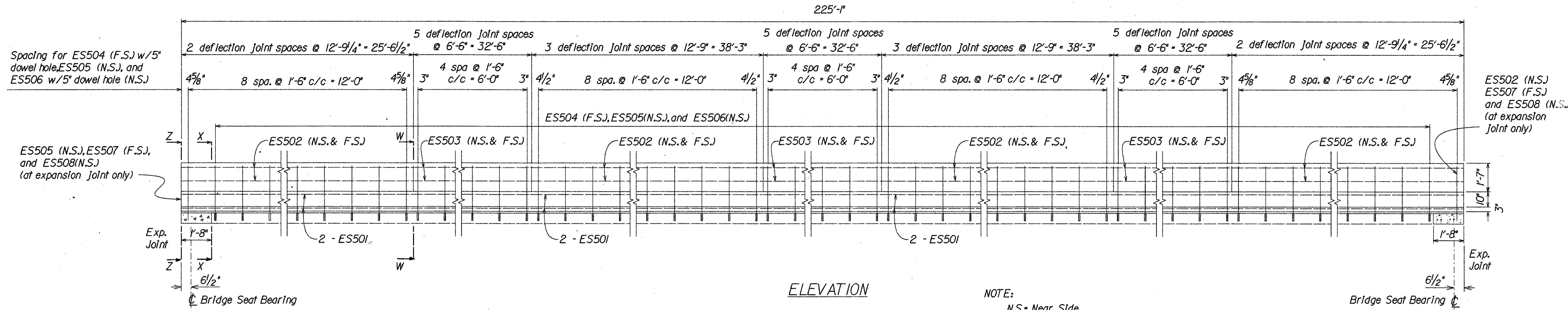
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JML			GG	LCL	7/14/92	



NOTE: SECTIONS A-A, B-B, C-C, D-D, E-E, and F-F refer to Sheet No. 6/11

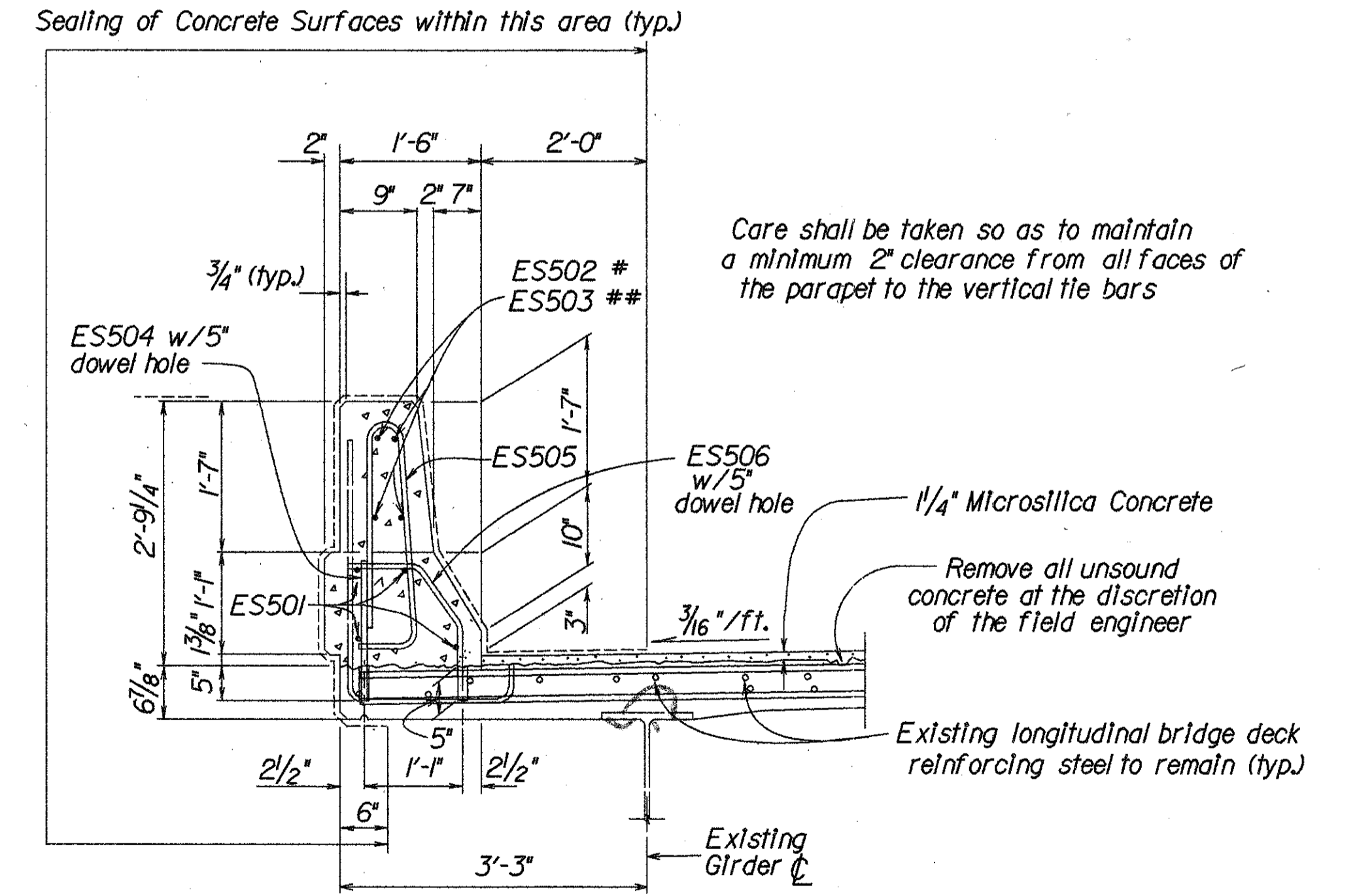
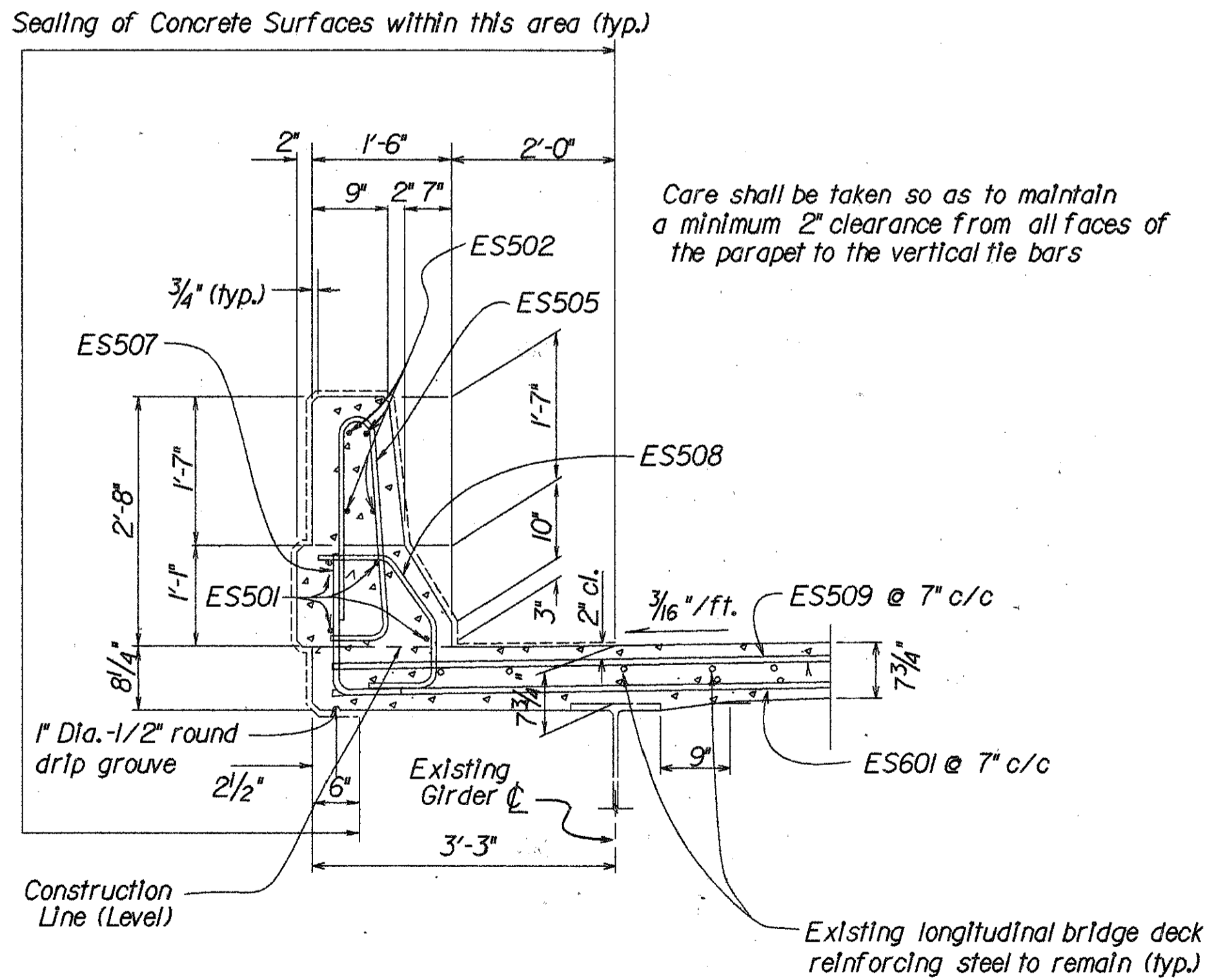
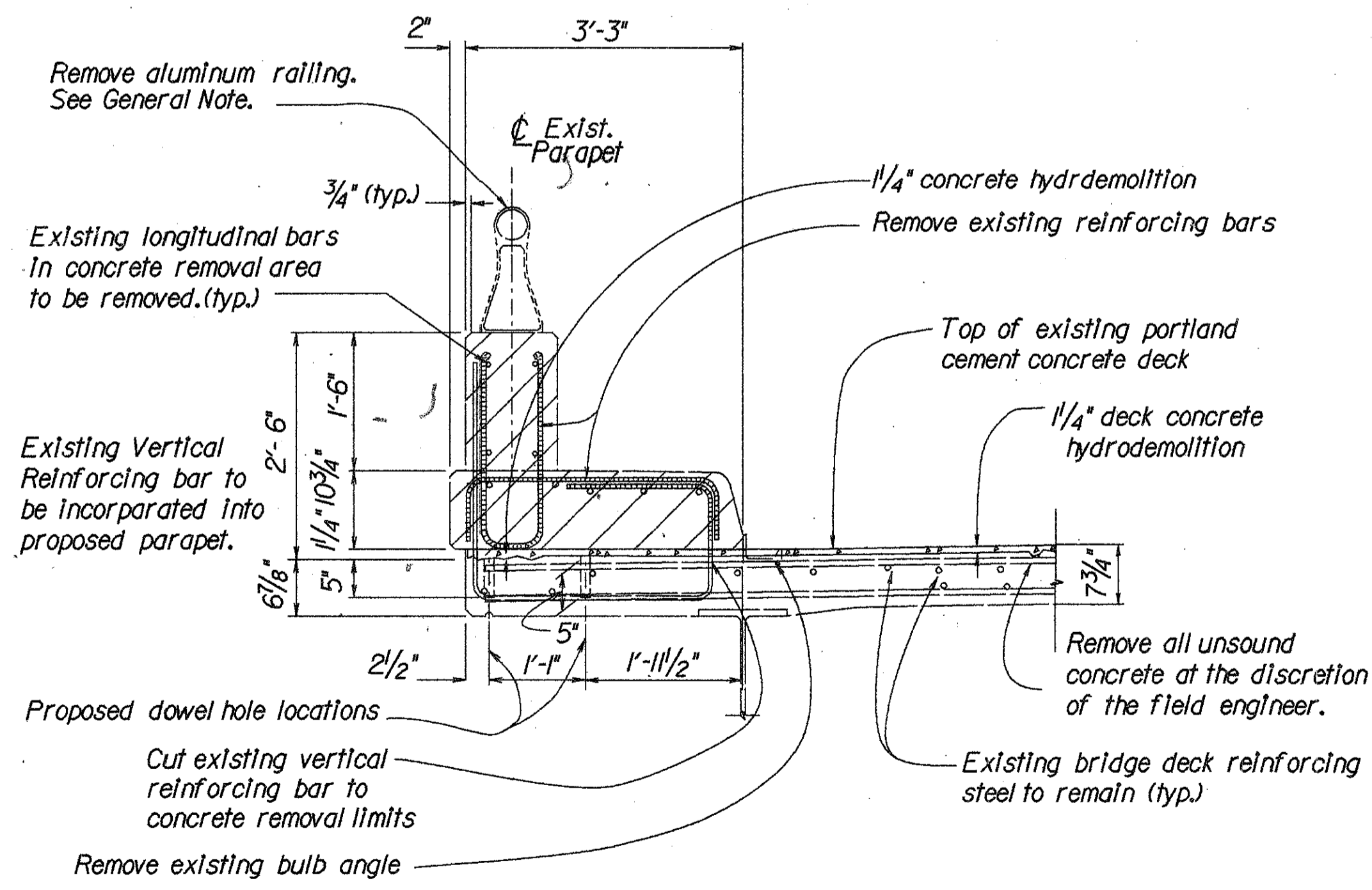
STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES						
ABUTMENT WINGWALL AND BACKWALL PARAPET MODIFICATION DETAILS BR. NO. WOO-75-0301 OIL CENTER ROAD						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JML			GG	LCL	7/14/62	

ZFAI:200210JW50CAP.DGN



NOTE:

N.S. = Near Side
 F.S. = Far Side
 --- Sealing of Concrete Surfaces
 [Pattern] Proposed Class S Concrete [Pattern] Proposed Microsilica Modified Concrete



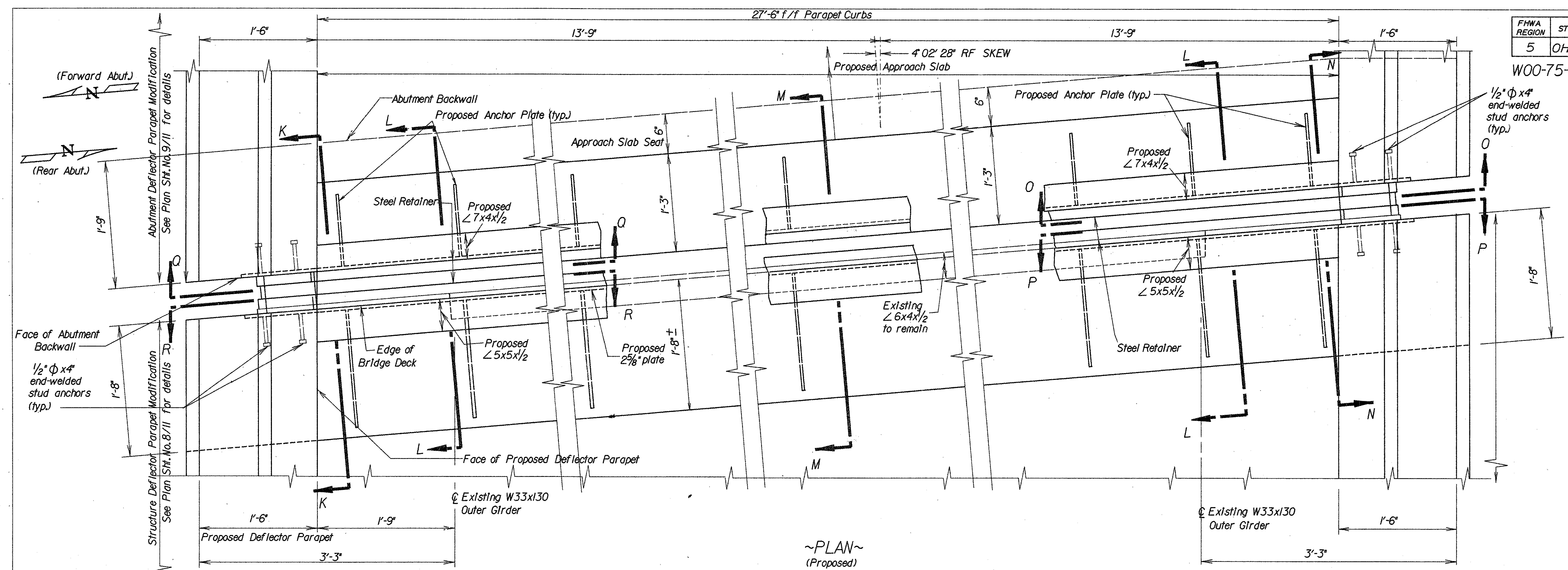
ZFA1E2002101W750CPD .DGN:1

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES						
STRUCTURE UPGRADING BRIDGE DEFLECTOR PARAPET MODIFICATION W00-75-0301 OIL CENTER ROAD						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JML			GG	LCL	7/14/82	

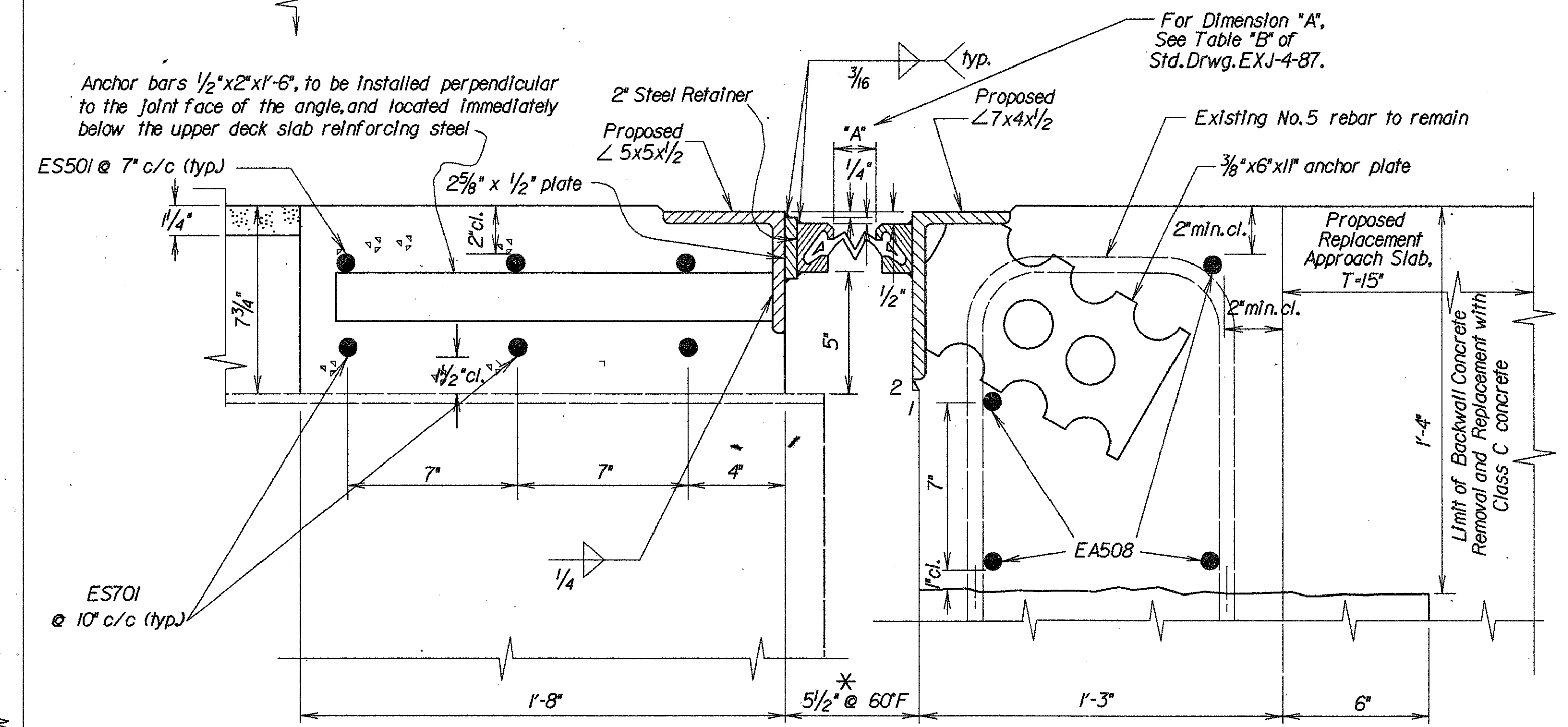
FHWA REGION	STATE	PROJECT
5	OHIO	

30
116
9
11

W00-75-3.01 (VARIOUS)



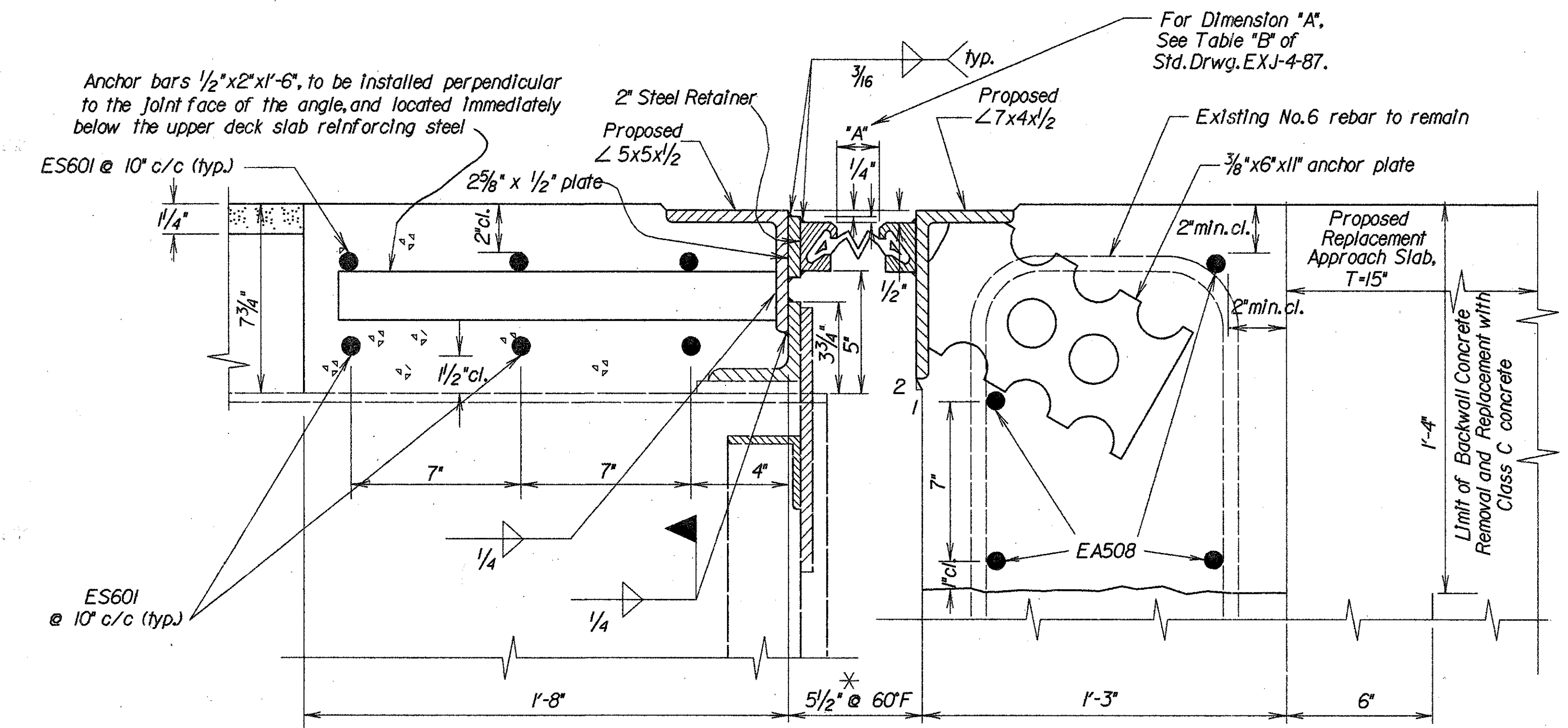
~PLAN~
(Proposed)



~SECTION L-L~

(Proposed End Dam Modification at @ Outer Girders)

NOTE: For additional abutment backwall details, including location of proposed rebar, see Plan Sheet No.6/11



~SECTION M-M~

(Proposed End Dam Modification)

(Between Existing Outer Girders)

*NOTE: Dimension is based on original construction plans, and is to be verified in the field by the contractor.

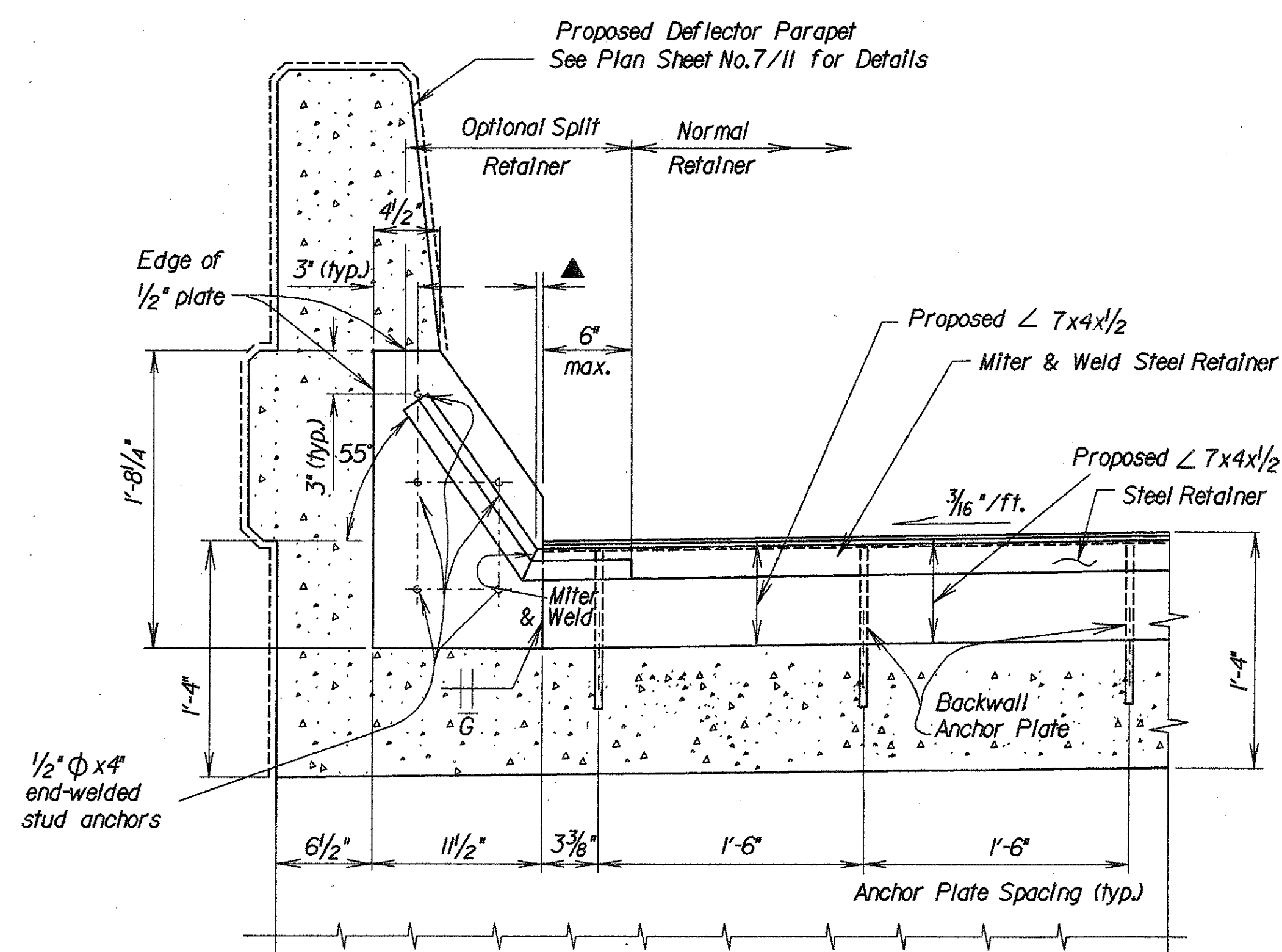
Note: For Sections *K-K*, *N-N*, *O-O*, *P-P*, *Q-Q*, and *R-R* see Plan Sheet No.10/11

1/4" Microsilica Modified Concrete

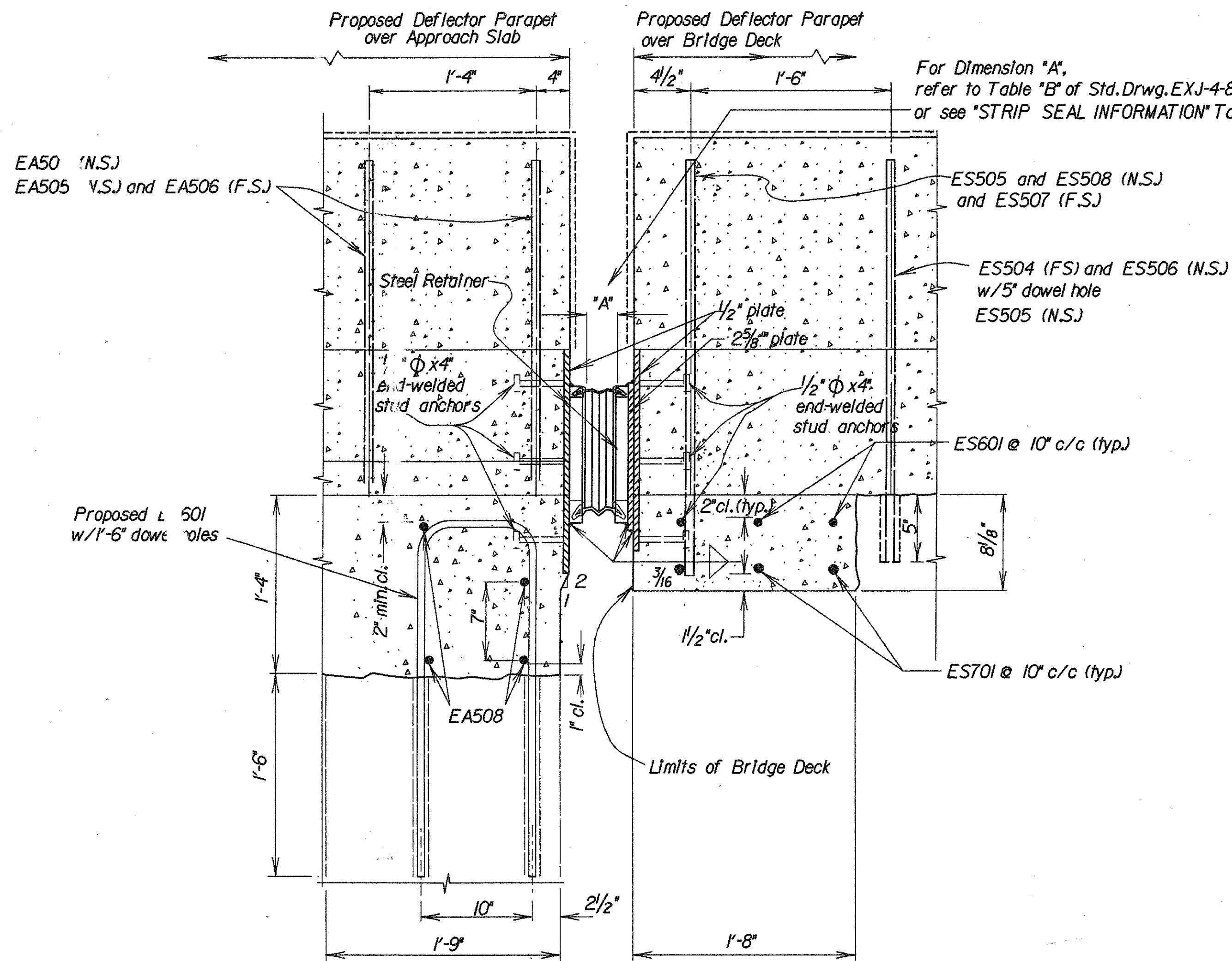
Proposed Replacement Microsilica Concrete (Bridge Superstructure) and Replacement Class C Concrete (Abutment Backwall)

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES						
STRUCTURE UPGRADING EXPANSION JOINT DETAILS, AS PER PLAN A, AT ABUTMENT BRIDGE NO. W00-75-0301 OIL CENTER RD.						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JML			GG	LCL	7/14/92	

ZF:HL2002101 W750CE2.DGN



~SECTION Q-Q~
~SECTION O-O~ (Reversed)
(Proposed ~ at Deflector Parapet)



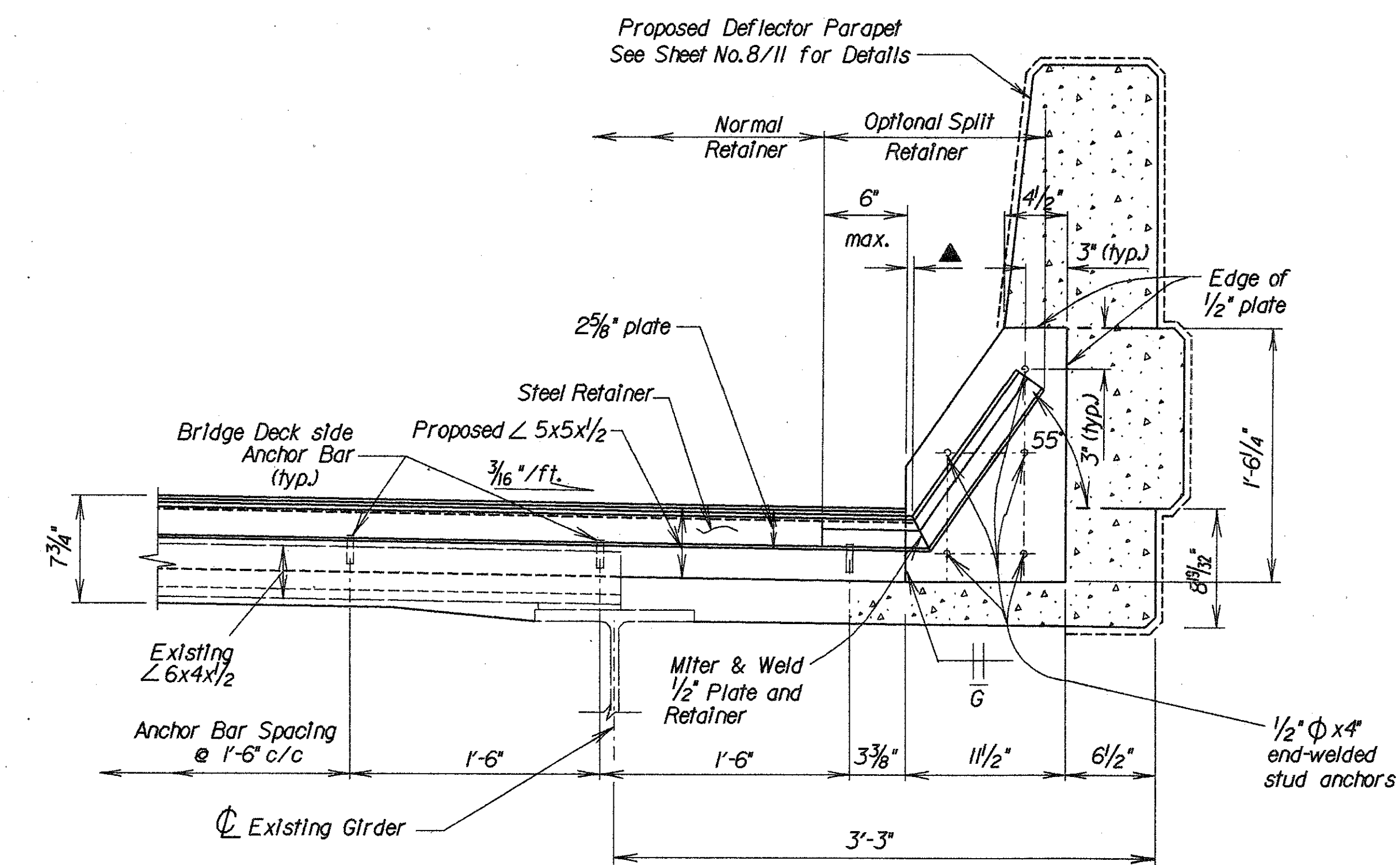
~SECTION K-K~ (Reversed)
~SECTION N-N~
(Proposed ~ at Deflector Parapet)

STRIP SEAL INFORMATION

TEMPERATURE, °F	DIMENSION "A", INCHES	
	REAR ABUTMENT	FORWARD ABUTMENT
30	1 3/4	1 3/4
40	1 7/8	1 7/8
50	1 9/16	1 9/16
60	1 1/2	1 1/2
70	1 3/8	1 3/8
80	1 5/16	1 5/16
90	1 7/16	1 7/16
REQUIRED SEAL SIZE	3"	3"

STRIP SEAL DATA

SEAL SIZE	THE D.S. BROWN COMPANY	STRUCTURAL ACCESSORIES INC.	WATSON-BOWMAN & ACME CORP.
3"	300L	40-SEQ	SE-300



~SECTION R-R~
~SECTION P-P~ (Reversed)
(Proposed ~ at Deflector Parapet)

▲ ~ 0" min. 1/2" max. to breakpoint in retainer

----- Sealing of Concrete Surfaces

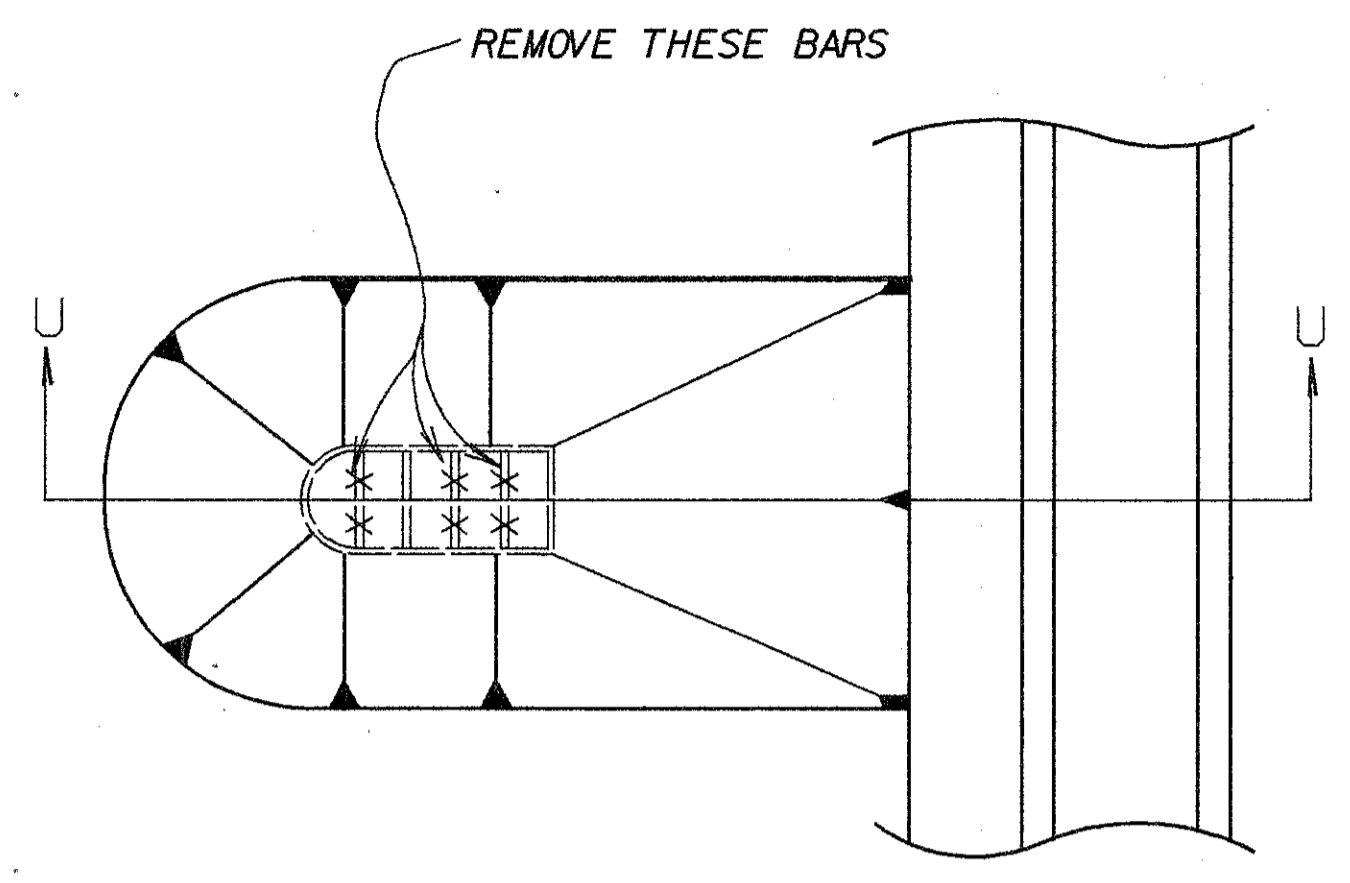
Replacement Concrete

Sections "K-K", "N-N", "O-O", "P-P", "Q-Q", and "R-R" refer to Plan Sheet No. 9/11

NOTE: N.S. = Near Side
F.S. = Far Side

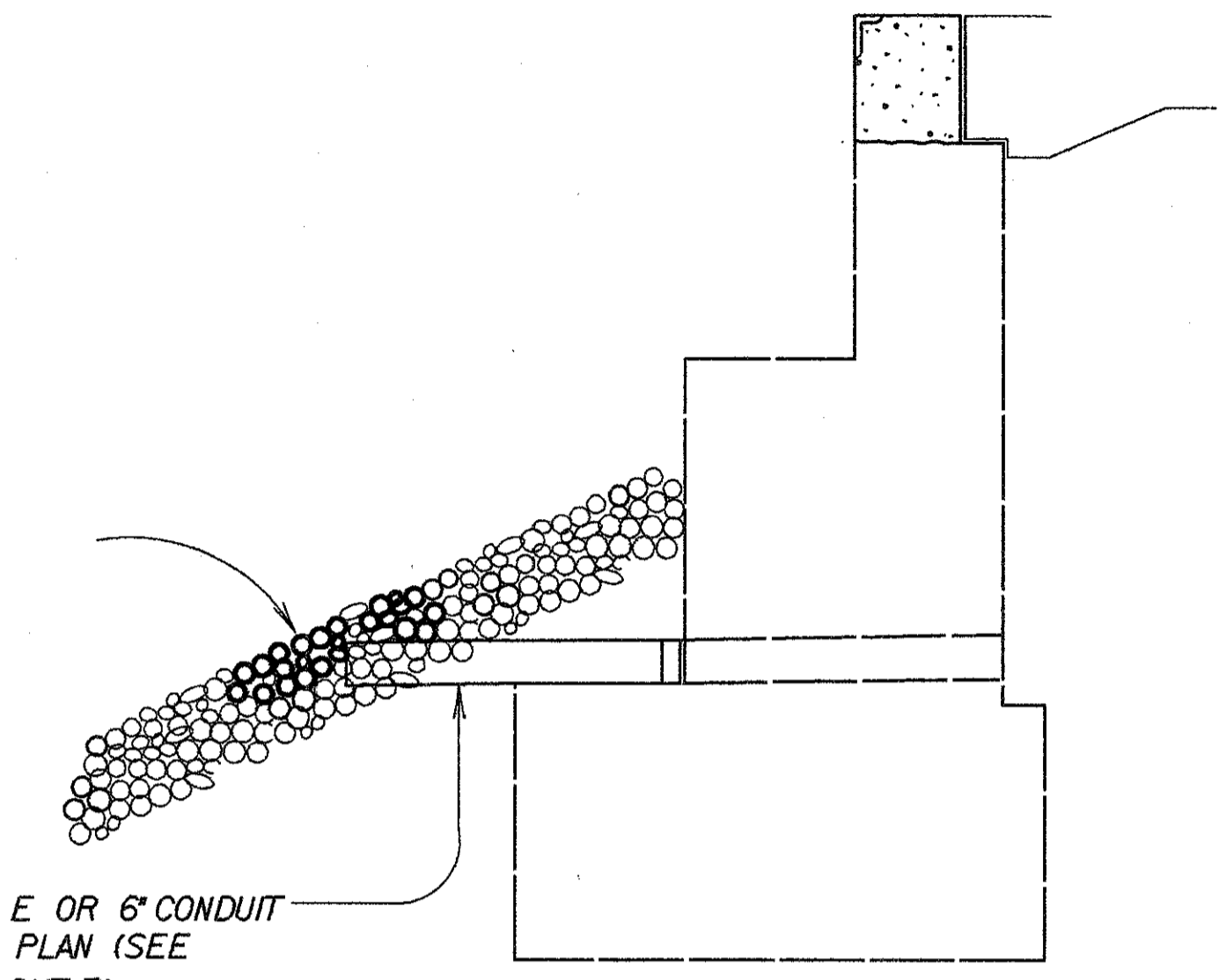
STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES						10 / 11
STRUCTURE UPGRADING EXPANSION JOINT DETAILS, AS PER PLAN A, AT ABUTMENT BRIDGE NO. WOO-75-0301 OIL CENTER RD.						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JML			GG	LCL	7/14/92	

SCUPPER MODIFICATION DETAIL

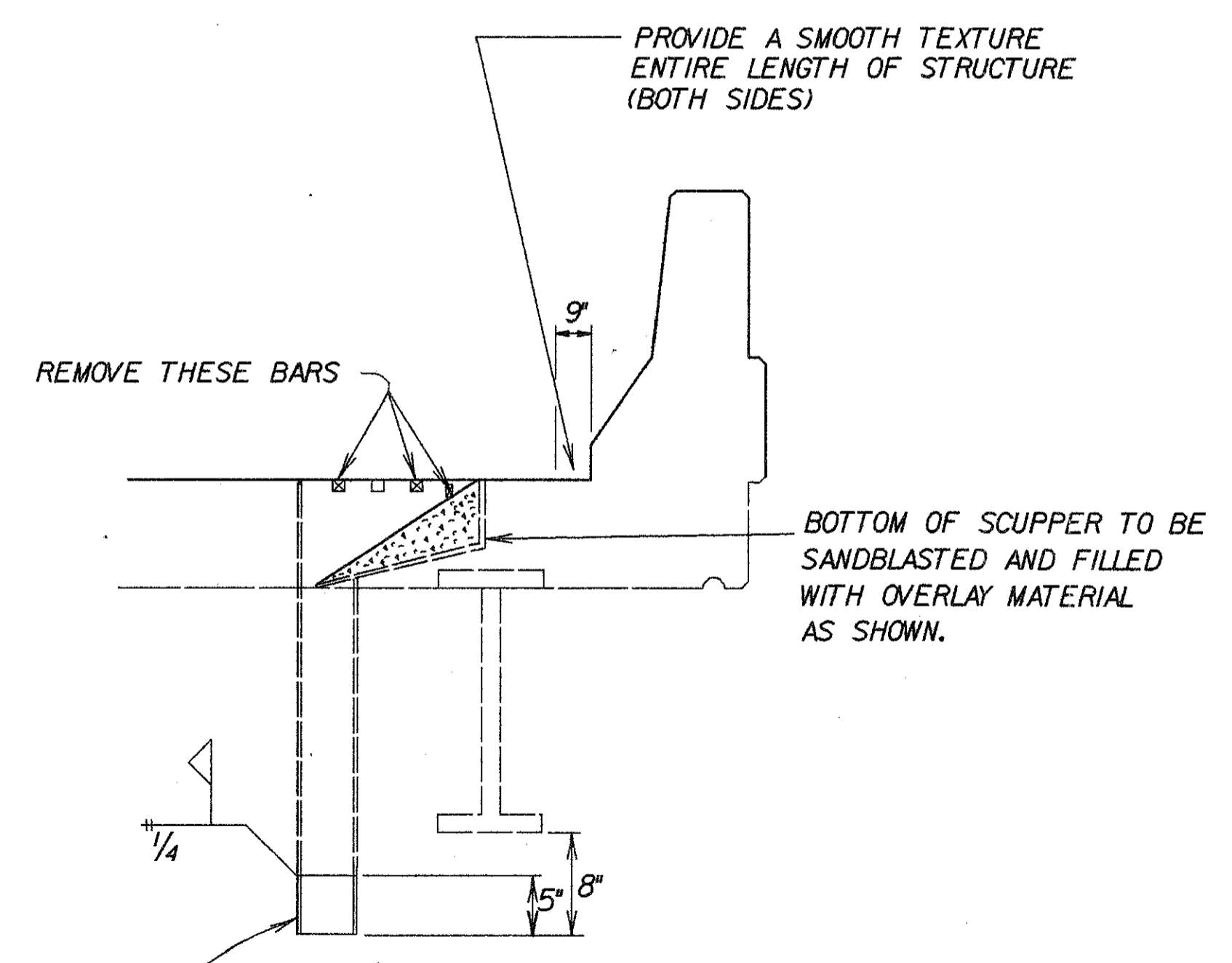


PLAN VIEW

ESTIMATED QUANTITY 32 CU.YD. OF ITEM 601, CRUSHED AGGREGATE SLOPE PROTECTION TO BE USED AS DIRECTED BY THE ENGINEER FOR LEVELING THE EXISTING SLOPE PROTECTION

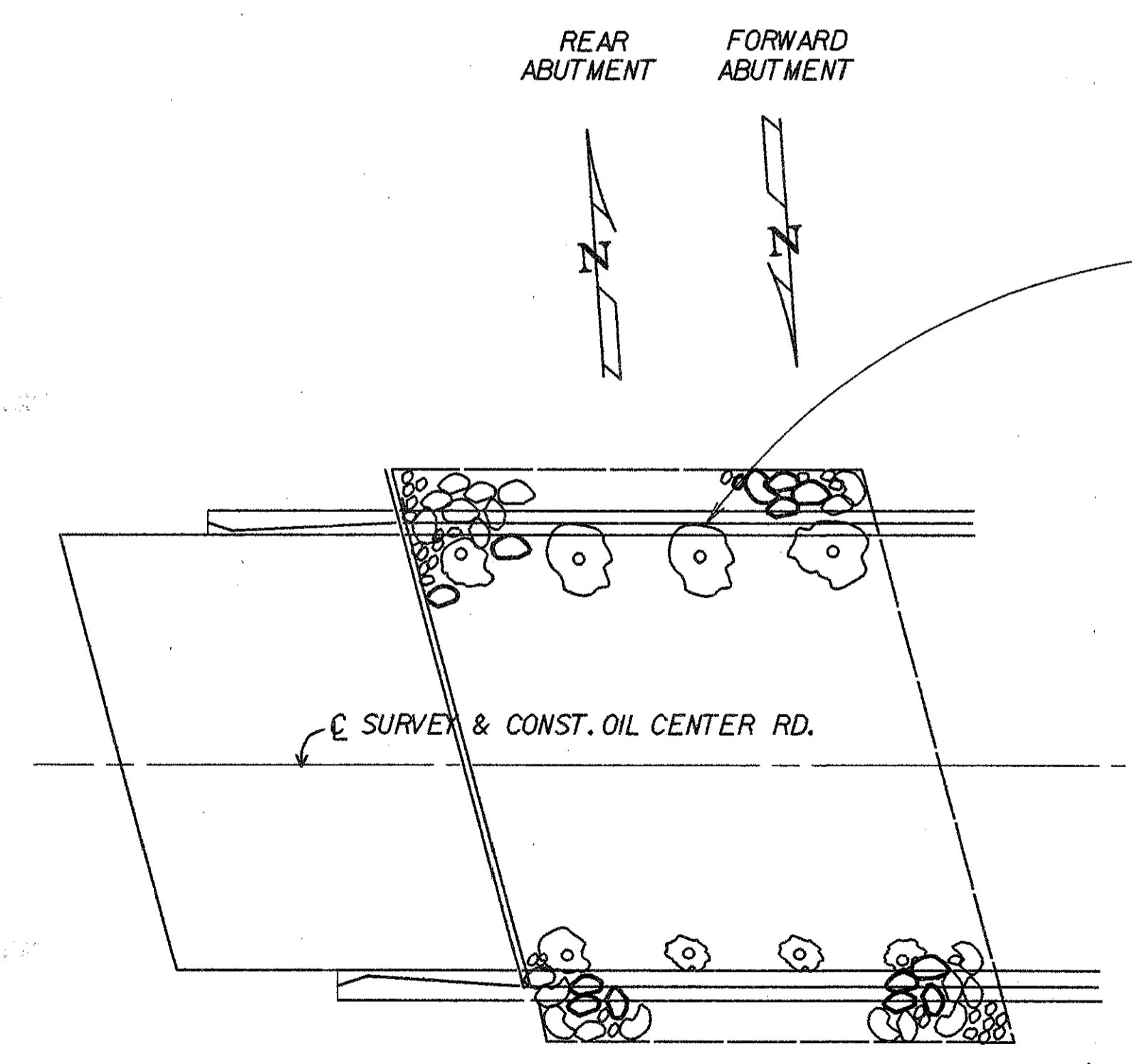


ELEVATION



SECTION U-U

EXTEND EXISTING OUTLET PIPE TO 8" BELOW BEAM FLANGE WITH SAME SIZE STEEL PIPE AS EXISTING. INCLUDE COST IN ITEM 518, SCUPPER MODIFICATION, AS PER PLAN.



PLAN

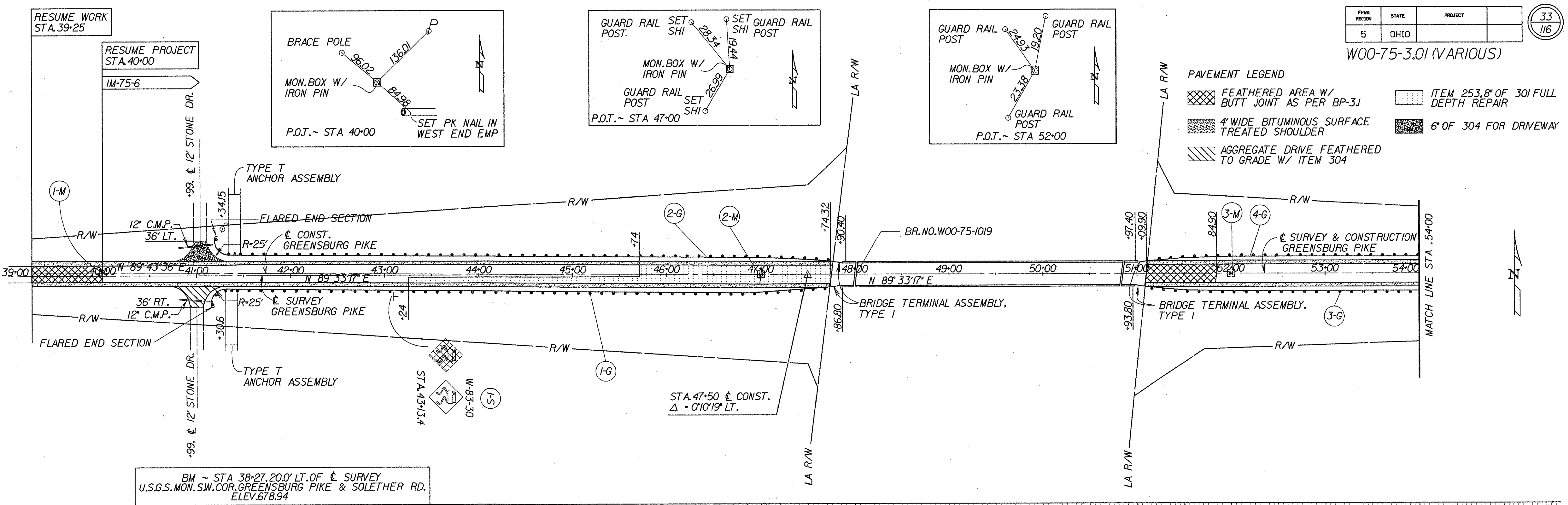
THE EXISTING AND PROPOSED CRUSHED AGGREGATE SLOPE PROTECTION DIRECTLY UNDER THE BRIDGE DRAINAGE SCUPPERS SHALL BE PROTECTED BY GROUTING A 5' X 5' AREA OF AGGREGATE AS PER 601.03. AN ESTIMATED QUANTITY OF 45 SQ.YDS. SHALL BE USED AS DIRECTED BY THE ENGINEER FOR THIS PURPOSE.

ZFA1:2002101W750CSC .DGN:1

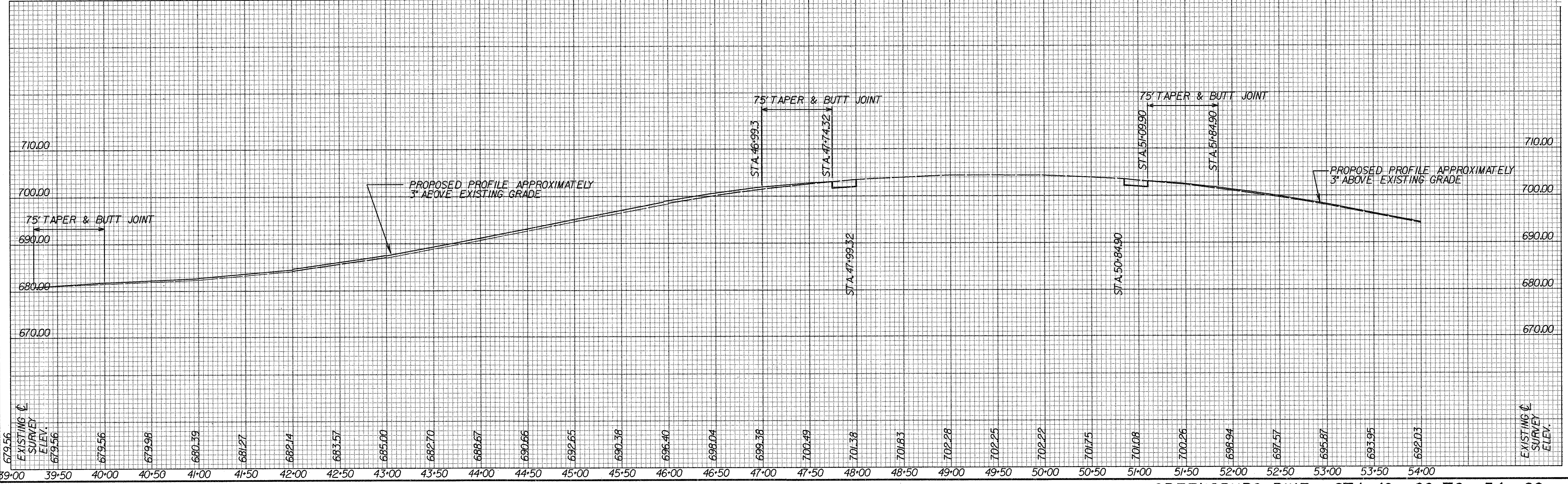
STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES							11 / 11
MISCELLANEOUS DETAILS BRIDGE NO. W00-75-0301 OIL CENTER ROAD							
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED	
JML			GG	LCL	7/14/92		

W00-75-3.01 (VARIOUS)

- PAVEMENT LEGEND**
- FEATHERED AREA W/ BUTT JOINT AS PER BP-3J
 - ITEM 253.8" OF 301 FULL DEPTH REPAIR
 - 4' WIDE BITUMINOUS SURFACE TREATED SHOULDER
 - 6" OF 304 FOR DRIVEWAY
 - AGGREGATE DRIVE FEATHERED TO GRADE W/ ITEM 304



BM ~ STA 38+27.20' LT. OF SURVEY
U.S.G.S. MON. S.W. COR. GREENSBURG PIKE & SOLETHOR RD.
ELEV. 678.94



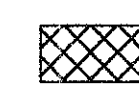

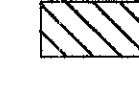

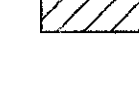
GREENSBURG PIKE STA. 40+00 TO 54+00

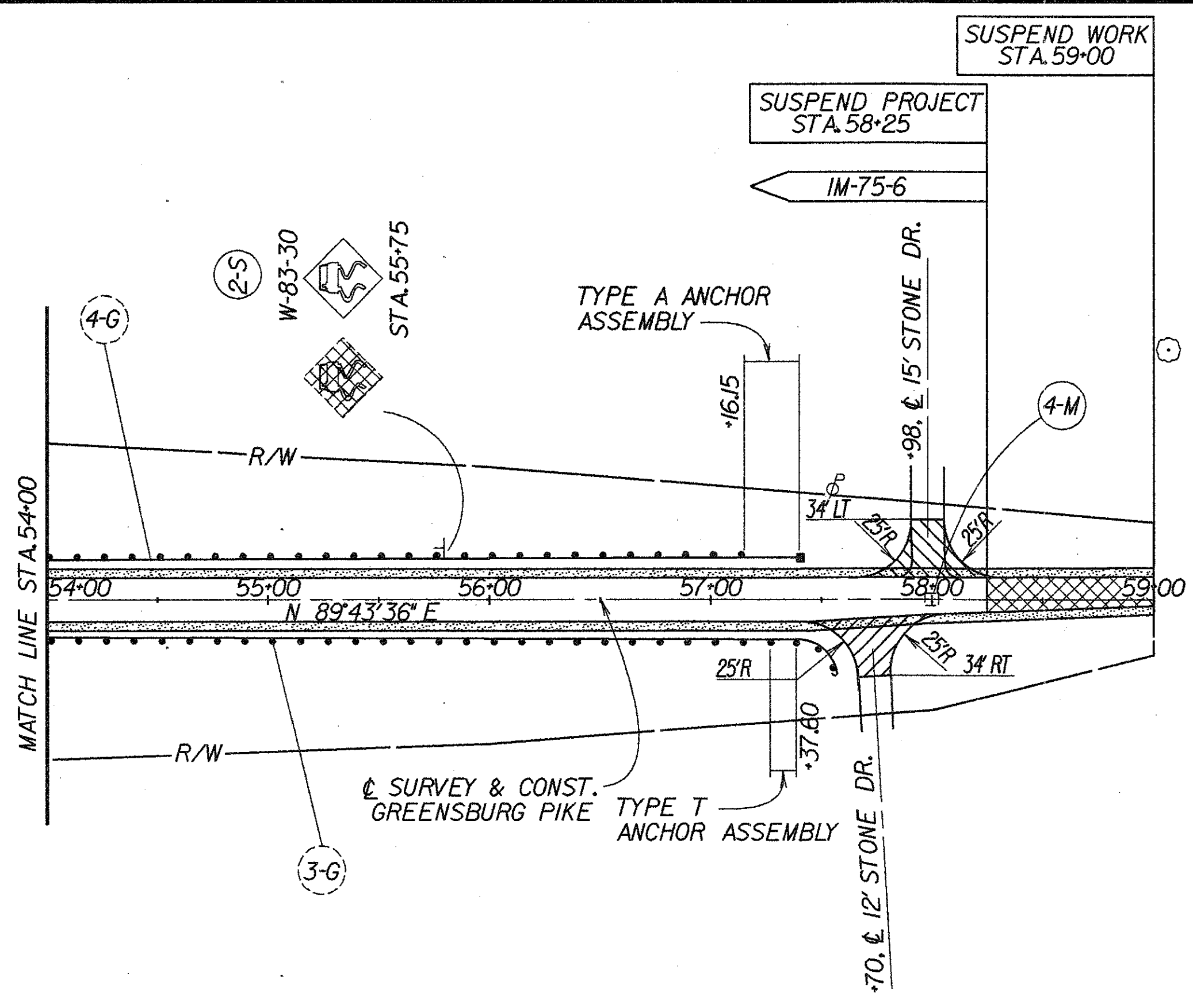
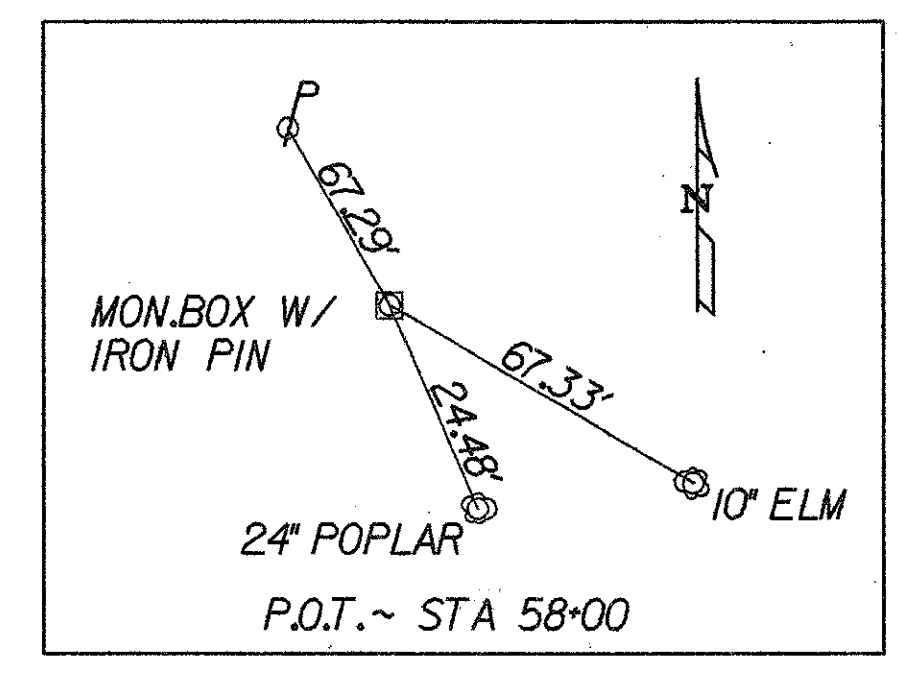
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AREA	STATE	PROJECT	
5	OHIO		

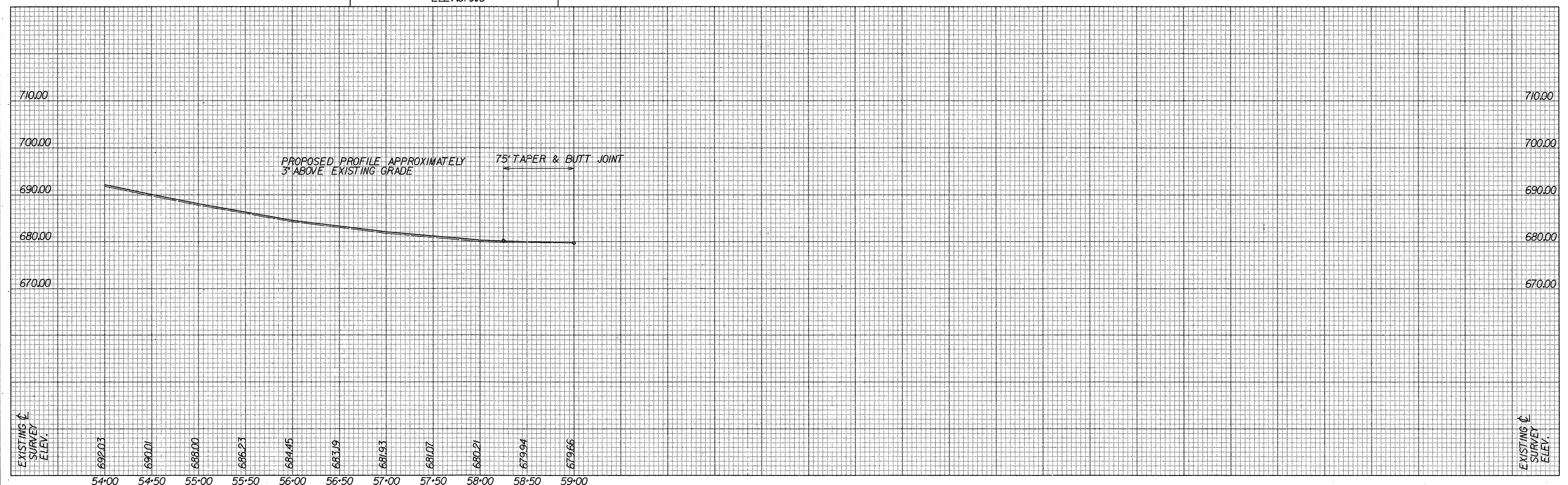
34
116

W00-75-3.01 (VARIOUS)

- PAVEMENT LEGEND
-  FEATHERED AREA W/ BUTT JOINT AS PER BP-3J
 -  4' WIDE BITUMINOUS SURFACE TREATED SHOULDER
 -  AGGREGATE DRIVE FEATHERED TO GRADE W/ ITEM 304
 -  BITUMINOUS SURFACE TREATED MAILBOX APPROACH
 -  ASPHALT APPROACH FEATHER TO EXISTING



BM ~ STA 57+55.50, 0.0' LT. OF ϕ SURVEY
SET LARGE R.R. SPIKE IN POWER POLE
ELEV. 679.15



GREENSBURG PIKE STA. 54+00 TO 59+00

ZFA1:2001001W75GP54P .DGN:1

QUANTITIES
 CALC. BY 1 DATE 5-9-92
 CKD. BY MTC DATE 5-5-92
 Revised 9-16-92

SUBSUMMARY

ITEM	EXT.	TOTAL	UNIT	DESCRIPTION
-ROADWAY-				
202	22900	145	SQ. YD.	APPROACH SLAB REMOVED (T = 13")
202	23500	250	SQ. YD.	WEARING COURSE REMOVED
202	38000	2,041	LIN. FT.	GUARDRAIL REMOVED
-PAVEMENT-				
203	12000	372	CU. YD.	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION
203	50000	171	SQ. YD.	SUBGRADE COMPACTION
604	38500	4	EACH	MONUMENT ASSEMBLY
606	13000	2575	LIN. FT.	GUARDRAIL, TYPE 5
606	25000	1	EACH	ANCHOR ASSEMBLY, TYPE A
606	26500	3	EACH	ANCHOR ASSEMBLY, TYPE T
606	35000	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1
-TRAFFIC CONTROL-				
802	00300	33	EACH	BARRIER REFLECTOR, TYPE A2 (WHITE)
802	00400	6	EACH	BARRIER REFLECTOR, TYPE B2 (WHITE)
-PAVEMENT-				
253	02000	210	CU. YD.	PAVEMENT REPAIR
304	20001	354	CU. YD.	AGGREGATE BASE, AS PER PLAN
402	20000	174	CU. YD.	ASPHALT CONCRETE, AC-20
404	20000	124	CU. YD.	ASPHALT CONCRETE, AC-20
407	10000	179	GAL.	TACK COAT
409	12500	24	CU. YD.	SEAL COAT COVER AGGREGATE, NO. 8 FOR SHOULDERS
409	21000	874	GALLON	SEAL COAT BITUMINOUS MATERIAL FOR SHOULDERS
611	25000	163	SQ. YD.	REINFORCED CONCRETE APPROACH SLAB (T = 15")
617	10100	81	CU. YD.	COMPACTED AGGREGATE, TYPE A
-TRAFFIC CONTROL-				
630	04100	29	LIN. FT.	GROUND MOUNTED SUPPORT, NO. 4 POST
630	80100	13	SQ. FT.	SIGN, FLAT SHEET
630	84900	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
630	86002	2	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL

MONUMENT TABLE

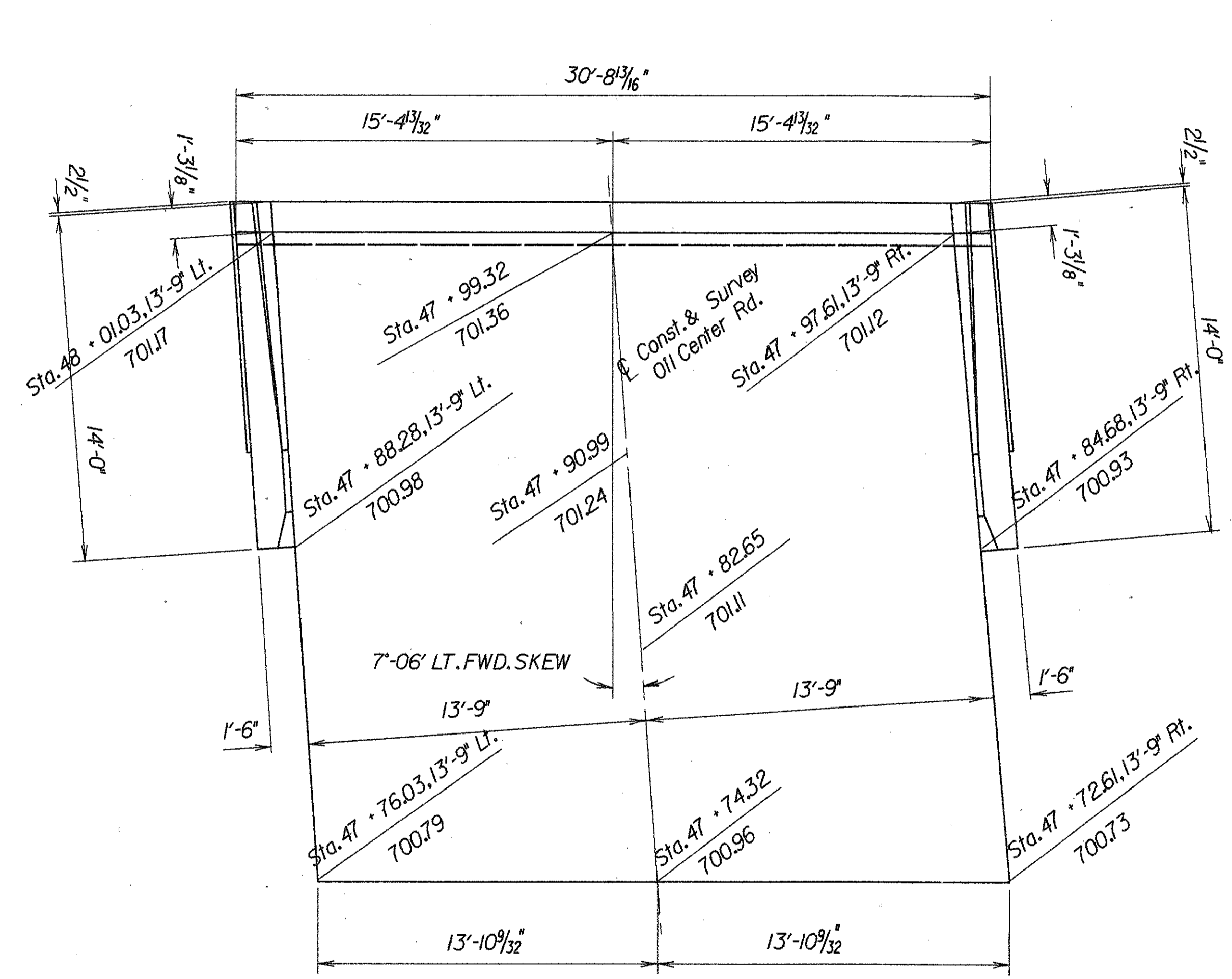
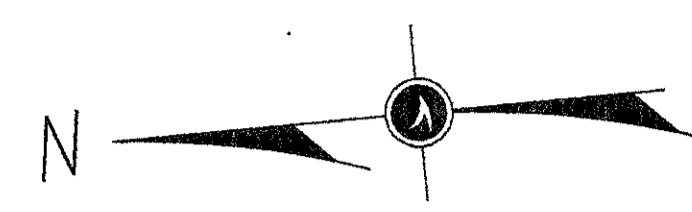
Ref.	Station	Side	604	
			Mon. Assem.	EACH
1-M	40+00	RT.	1	1
2-M	47+00	RT.	1	1
3-M	52+00	RT.	1	1
4-M	58+00	RT.	1	1
Totals to Subsummary			4	4

SIGN TABLE

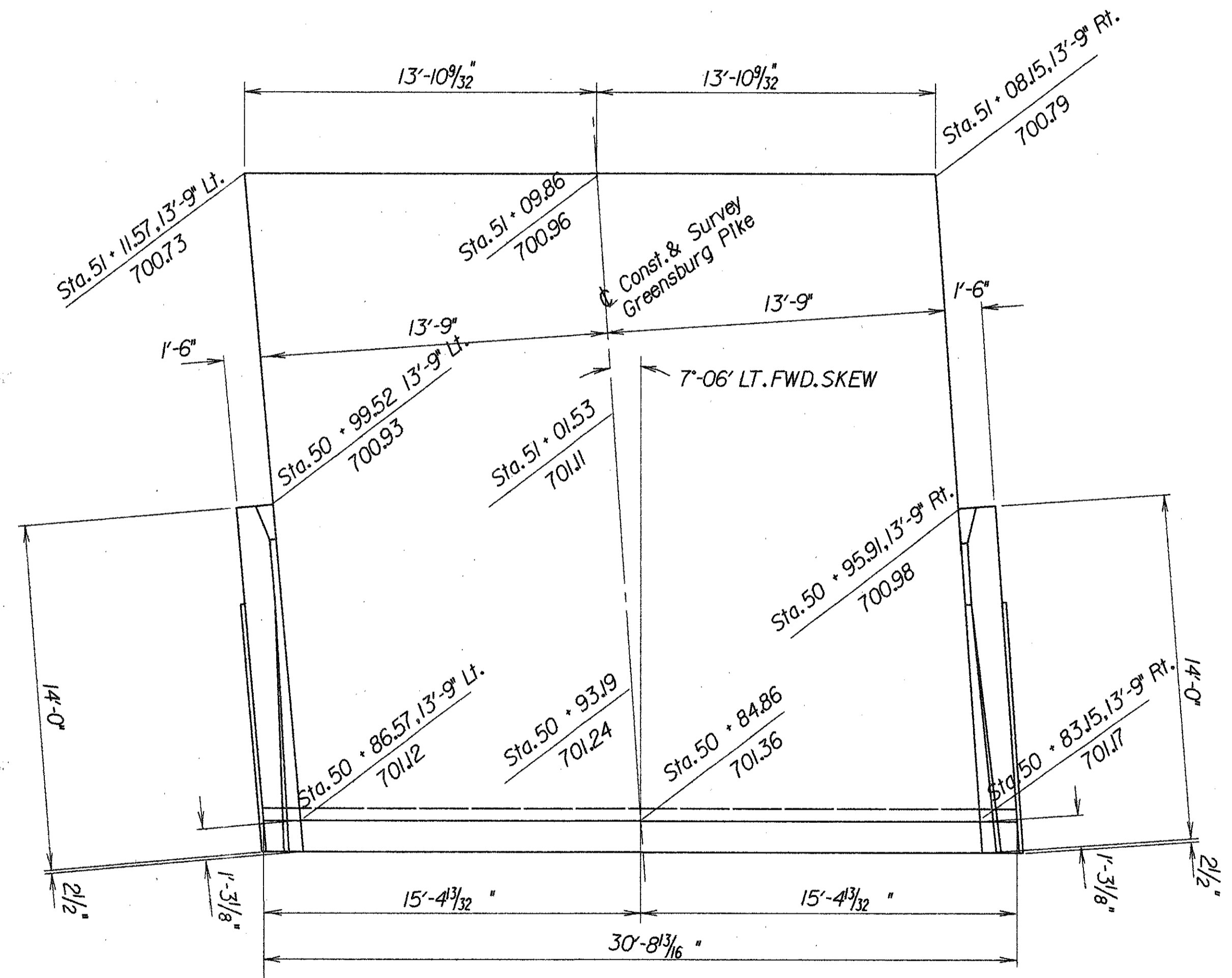
Ref.	Station	Side	Sign Code Number	Sign in Inches	630			
					Flat Sheet Sign	Ground Mounted Support, No. 4 Post	Removal of Ground Mounted Sign And Support	Removal of Ground Mounted Post Support
					Sq. Ft.	Lin. Ft.	Each	Each
1-S	42+75	RT.	W-83-30	30x30	6.25	14.6	1	1
2-S	59+75	LT.	W-83-30	30x30	6.25	14.6	1	1
Totals to Subsummary					12.50	29.2	2	2

GUARDRAIL TABLE

Ref.	Station		Side	202	606	606	606	606	802	802
	From	To		Guardrail Removed	Guardrail Type 5	Anchor Assem. Type A	Anchor Assem. Type T	Bridge Term. Assem. Type 1	Barrier Reflect. Type A2	Barrier Reflect. Type B2
1-G	41+11	48+01	RT.	512.0	662.50		1	1	8	
2-G	41+11	48+05	LT.	511.60	662.50		1	1	8	
3-G	51+10	57+58	RT.	507.50	650.00		1	1	9	
4-G	50+83.45	57+41.2	LT.	510.00	600.00	1		1	8	
Bridge Lt										3
Bridge Rt										3
Totals to Subsummary				2,041.1	2575	1	3	4	33	6

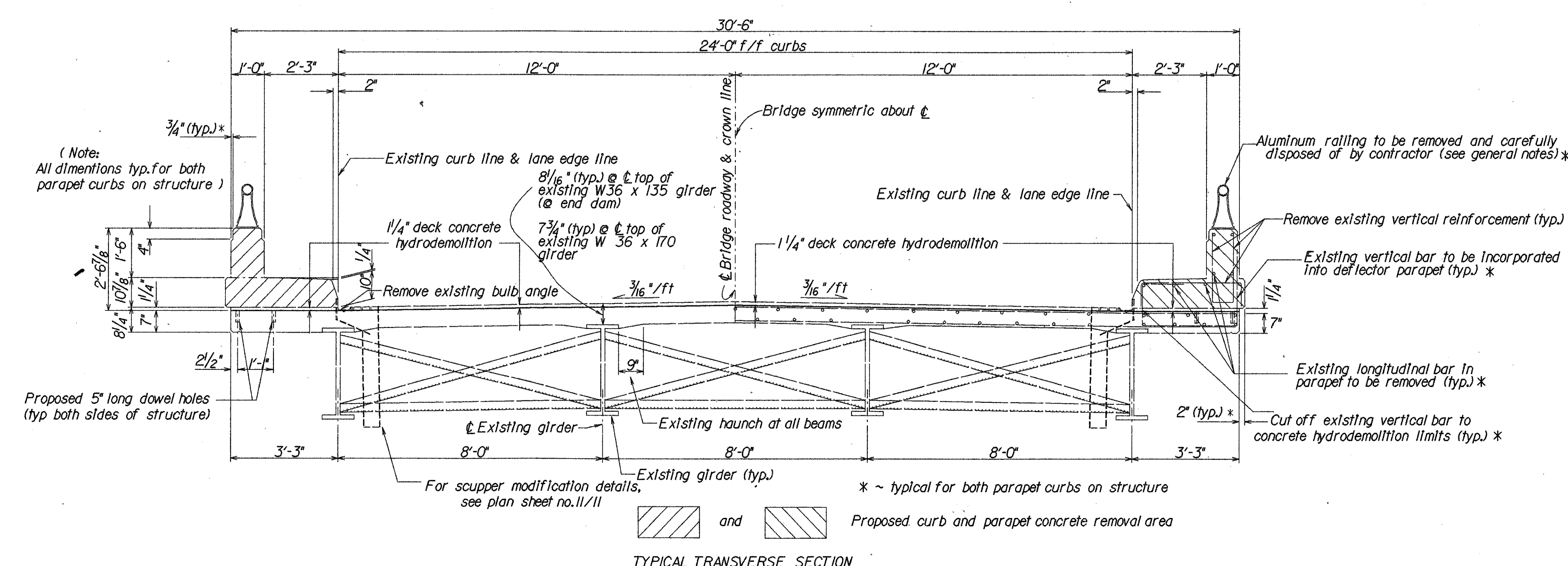
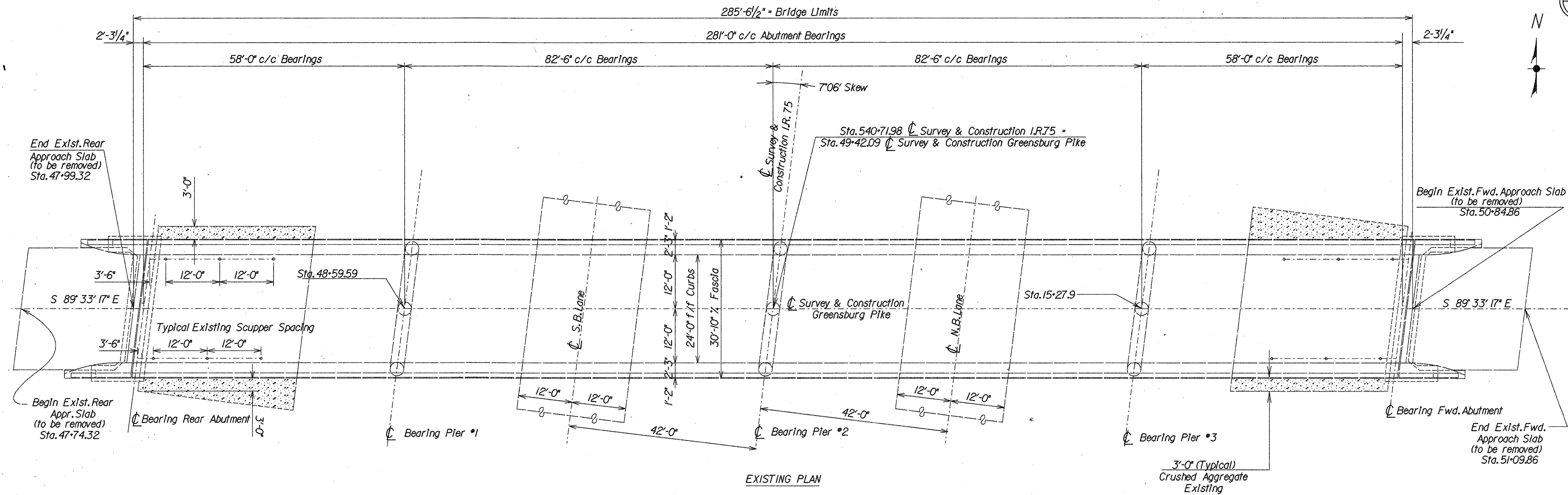


REAR APPROACH SLAB



FORWARD APPROACH SLAB

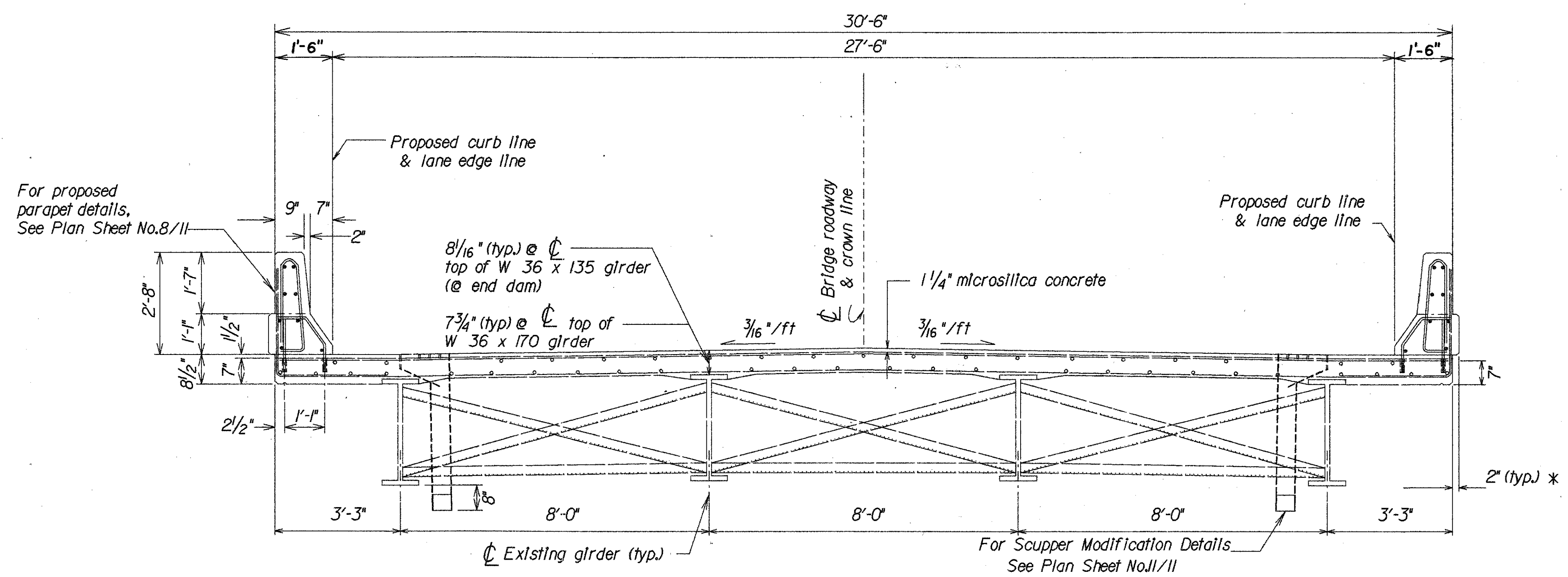
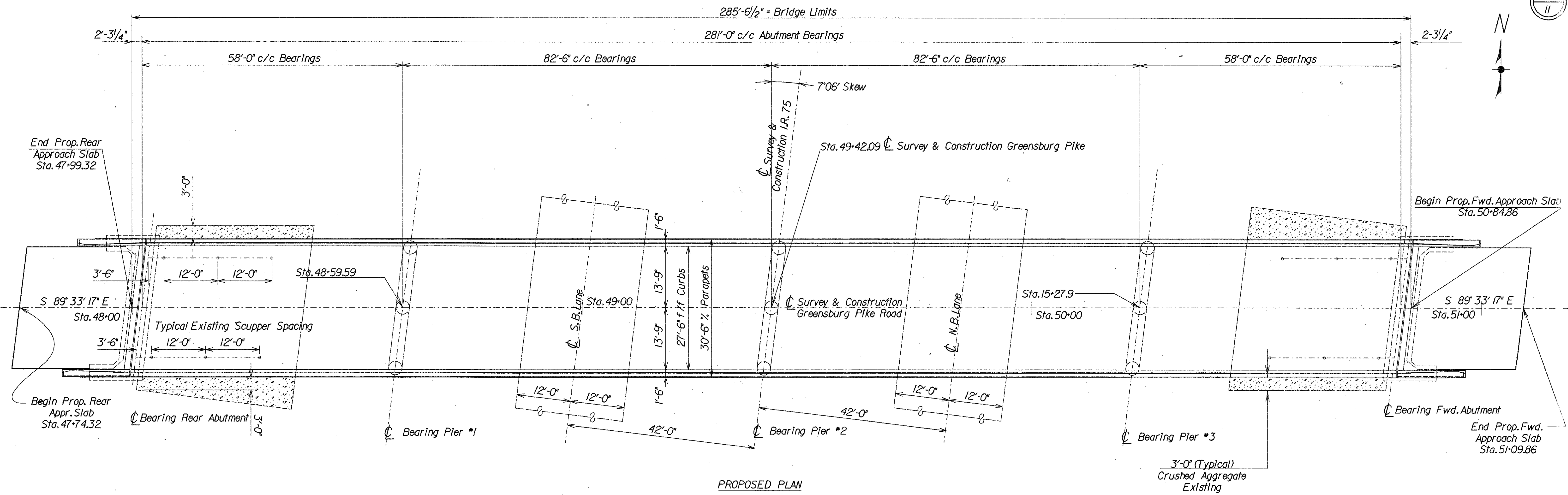
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EXISTING STRUCTURE DATA	
TYPE: CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK, REINFORCED CONCRETE PIER BENTS & STUB ABUTMENTS	
SPANS: 58'-0", 82'-6", 82'-6", 58'-0", C/C BRGS	
ROADWAY: 24'-0" F/F 2'-3" SAFETY CURBS	
LOADING: H-15	
SKEW: 7'-06' LEFT FORWARD	
WEARING SURFACE: 1" MONOLITHIC CONCRETE	
APPROACH SLABS: AS-1-54 (25' LONG) SPECIAL	
ALIGNMENT: TANGENT	

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 2 DESIGN & PLANNING OFFICE					
EXISTING PLAN AND TRANSVERSE SECTION BR NO. WOO-75-1019 GREENSBURG PIKE					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
			GG	LCL 7/15/92	

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- PROPOSED WORK**
- 1) REMOVE 1/4" OF EXISTING DECK USING HYDRODEMOLITION
 - 2) REMOVE EXISTING PARAPETS AND STRUCTURAL EXPANSION JOINTS
 - 3) BUILD BRIDGE PARAPETS
 - 4) REPLACE STRUCTURAL EXPANSION JOINTS WITH STRIP SEALS
 - 5) OVERLAY DECK WITH 1 1/4" MICROSILICA MODIFIED CONCRETE
 - 6) SEAL ABUTMENTS, PARAPETS AND WINGWALLS WITH EPOXY
 - 7) EXTEND SCUPPER BELOW BRIDGE DECK

PROPOSED STRUCTURE DATA

ROADWAY: 33'-6" FACE TO FACE OF PARAPETS
WEARING SURFACE: 1 1/4" MICROSILICA MODIFIED CONCRETE

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 2 DESIGN & PLANNING OFFICE					
PROPOSED PLAN AND TRANSVERSE SECTION BR NO. W00-75-1019 GREENSBURG PIKE					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
JML			GG	LCL 7/14/92	

* ~ Typical for both Parapet curbs on Structure

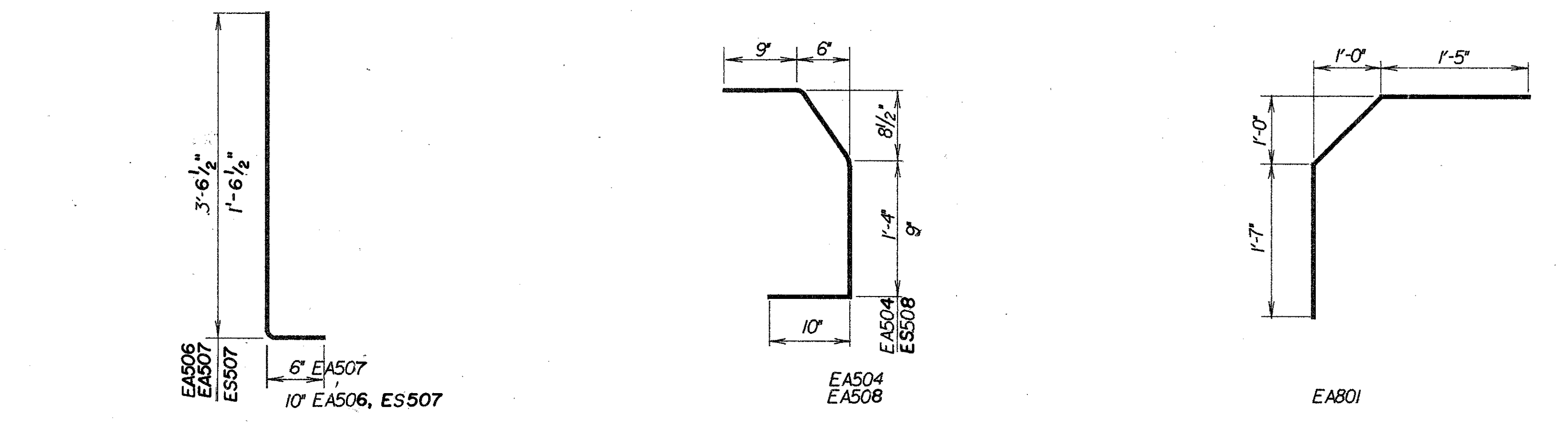
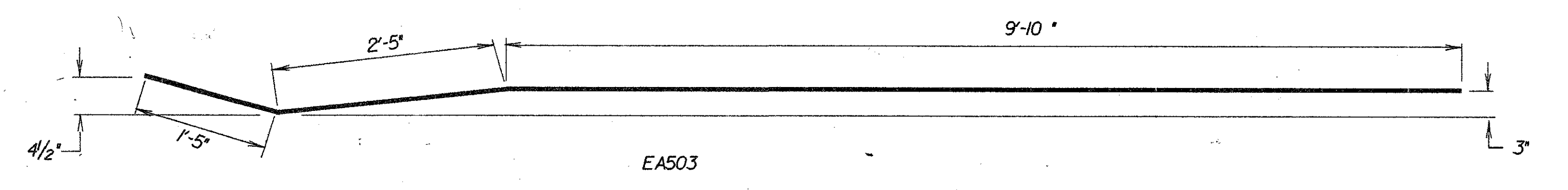
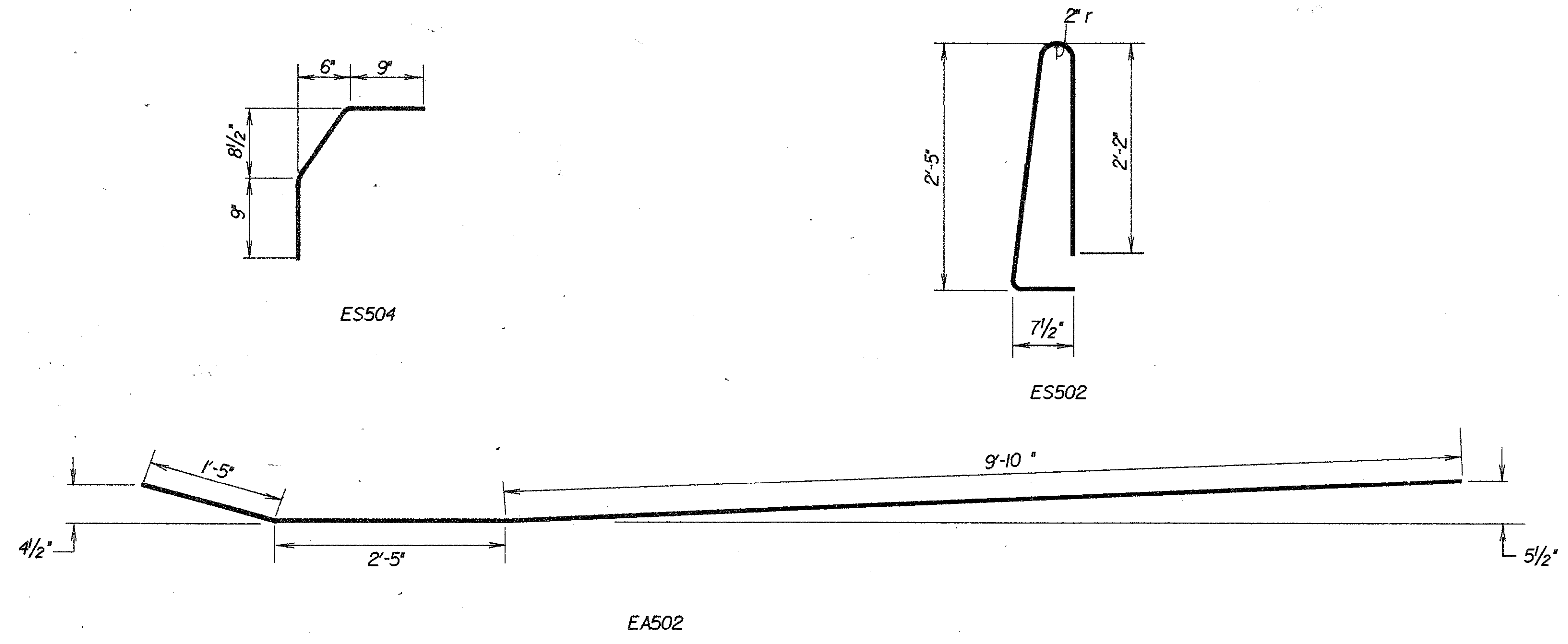
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REINFORCING STEEL LIST

BENDING DIAGRAMS

MARK	NO. IN STRUCTURE LT.	NO. IN STRUCTURE RT.	SIDE TOTAL	LENGTH	WEIGHT (LBS.)	SHAPE	LAP LENGTH	DOWEL HOLES (LIN. FT.)
<i>Superstructure</i>								
ES501	40	40	80	29'-2"	2434	S	1'-8"	
ES502	48	48	96	13'-8"	1368	S		
ES503	40	40	80	6'-2"	515	S		
ES504	203	203	406	1'-6"	635	S		170
ES505	205	205	410	5'-3"	2245	B		
ES506	203	203	406	2'-5"	1023	B		170
ES507	2	2	4	2'-3"	9	B		
ES508	2	2	4	3'-1"	13	B		
ES509	35	35	70	6'-8"	487	S		
ES510	8	8	16	16'-0"	267	S	1'-8"	
ES601	16	16	16	16'-2"	389	S	2'-0"	
ES701	16	16	16	16'-5"	537	S	2'-6"	
<i>Totals for Superstructure</i>					9922			340

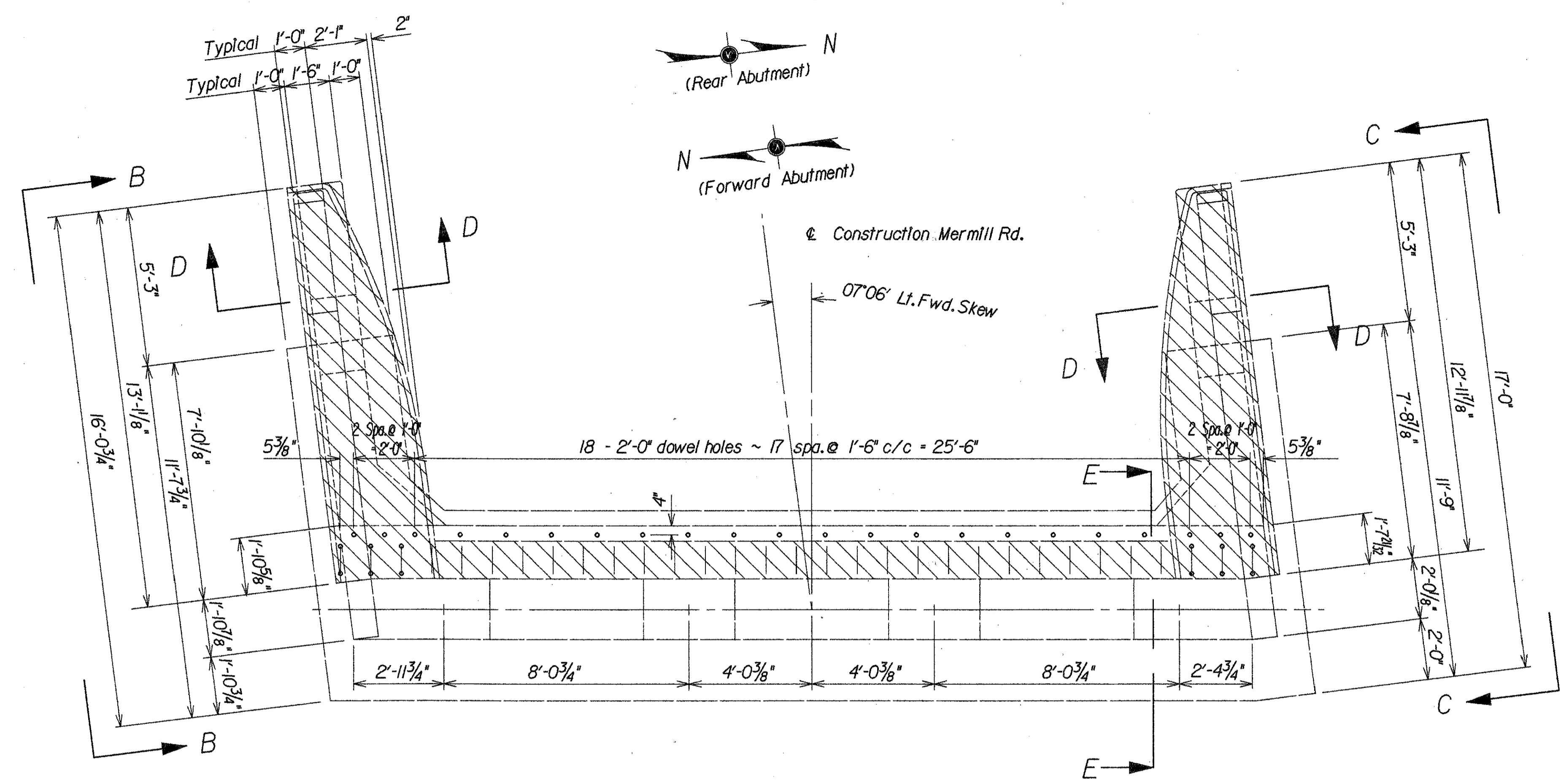
MARK	NO. IN ABUTMENT LT. PWD. RT. PWD.	NO. IN ABUTMENT LT. PWD. RT. PWD.	SIDE TOTAL	LENGTH	WEIGHT (LBS.)	SHAPE	LAP LENGTH	DOWEL HOLES (LIN. FT.)
<i>Abutments</i>								
EA501	10	10	20	13'-8"	285	S		
EA502	4	4	8	13'-8"	114	B		
EA503	2	2	4	13'-8"	57	B		
EA504	14	14	28	3'-8"	107	B		
EA505	14	14	28	3'-0"	88	B		
EA506	24	24	48	4'-3"	213	B		
EA507	2	2	4	3'-1"	16	B		
EA508	16	16	16	16'-0"	267	S	1'-8"	
EA801	22	22	44	4'-1"	578	B		88
<i>Totals for Abutments</i>					1725			88



*E in prefix designates epoxy coated

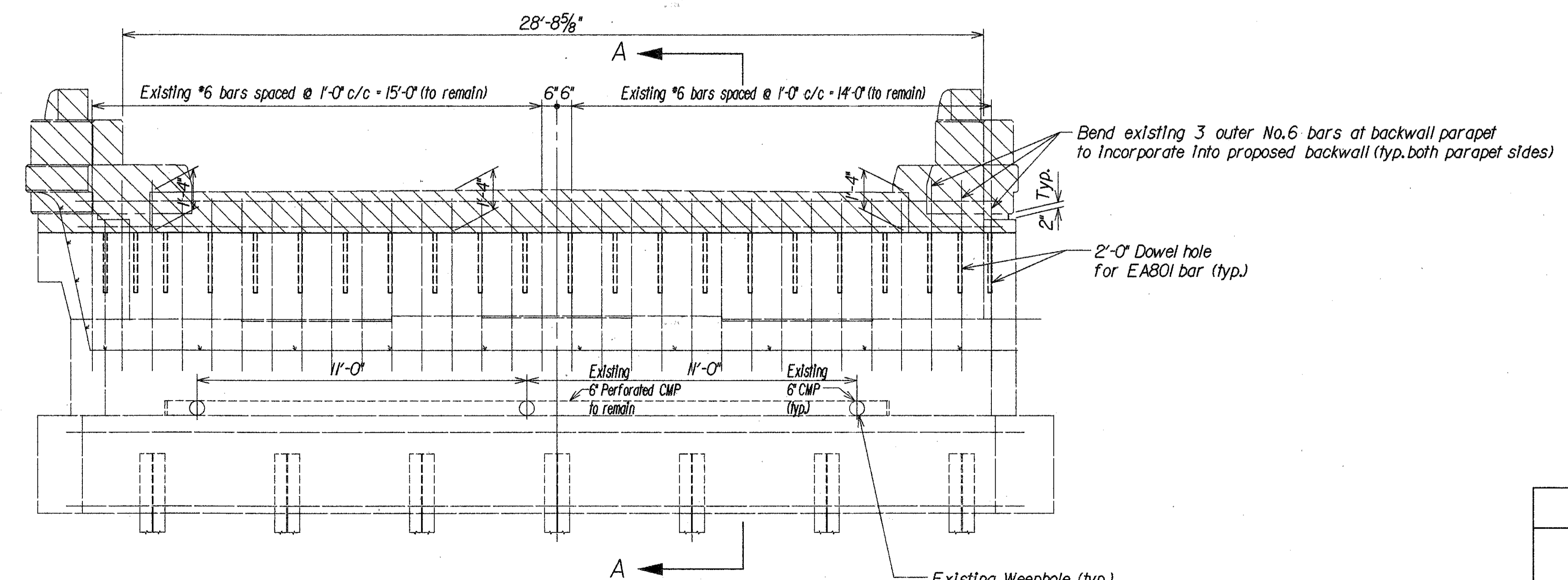
STATE OF OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 2 DESIGN & PLANNING OFFICE						3 / 11
REINFORCING STEEL LIST AND DETAILS BRIDGE NO. W00-75-1019 GREENSBURG PIKE						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWD	DATE	REVISED
JML			GG	LCF	7/14/82	

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LEGEND
 Removal Limits

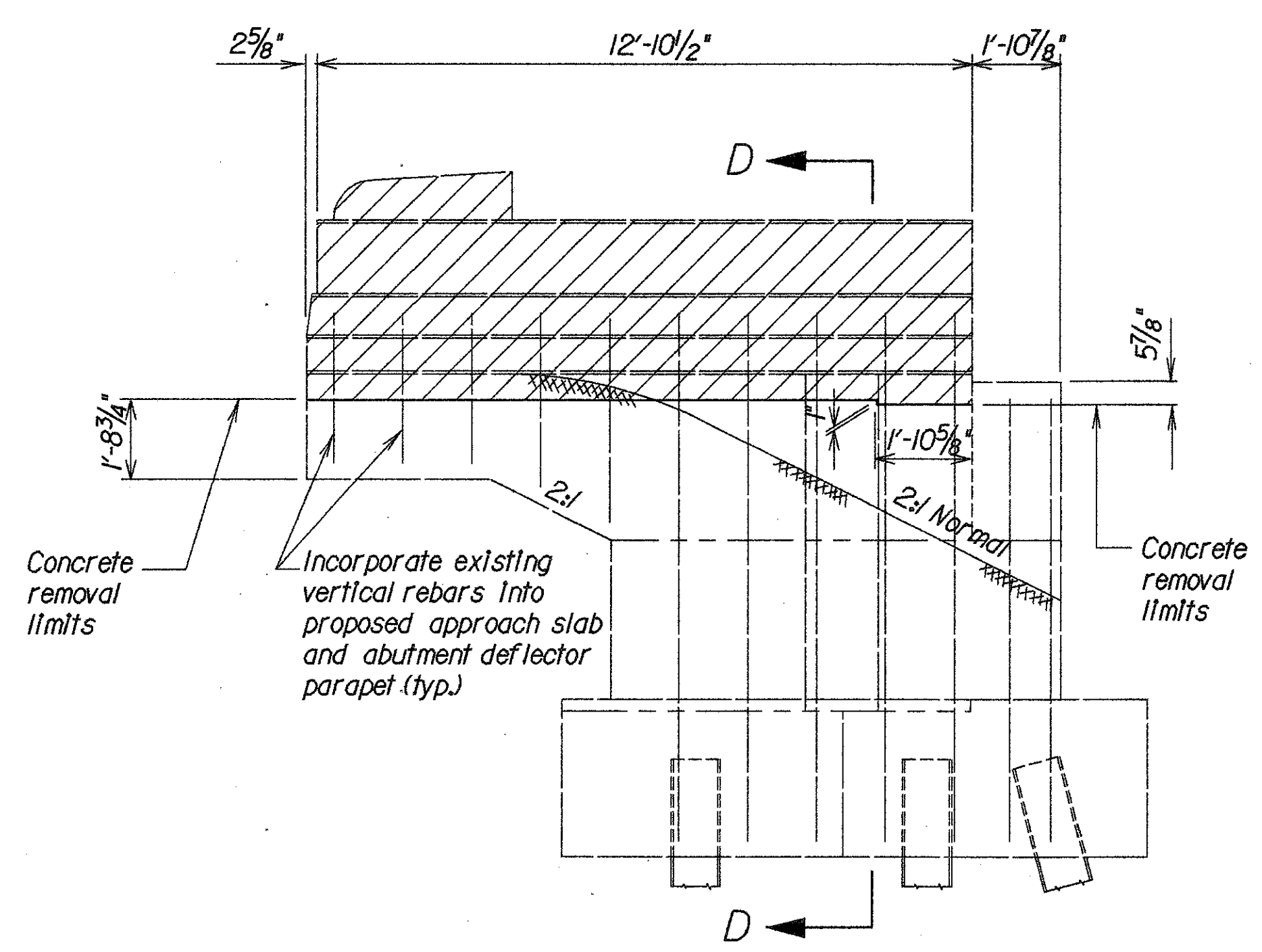
-PLAN VIEW-
 EXISTING ABUTMENT WINGWALL AND BACKWALL
 REMOVAL DETAILS



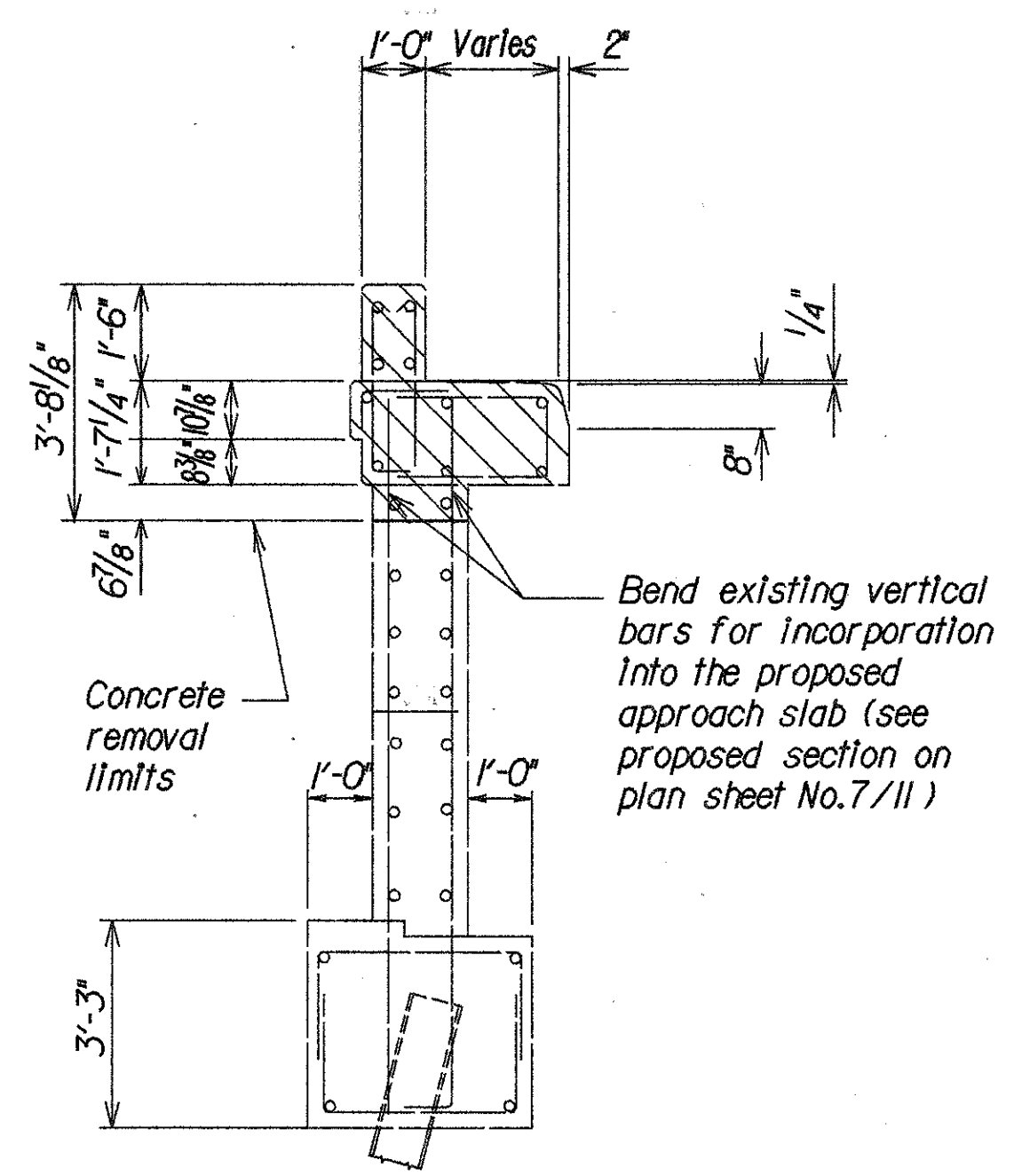
-ELEVATION-
 EXISTING ABUTMENT WINGWALL AND BACKWALL
 REMOVAL DETAILS

STATE OF OHIO DISTRICT 2 DEPARTMENT OF TRANSPORTATION DESIGN & PLANNING OFFICE						4 / 11
EXISTING ABUTMENT WINGWALL AND BACKWALL REMOVAL DETAILS						
BR. NO. W00-75-1019 GREENSBURG PIKE						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED	
JML			GG	6-22-71/11/11		

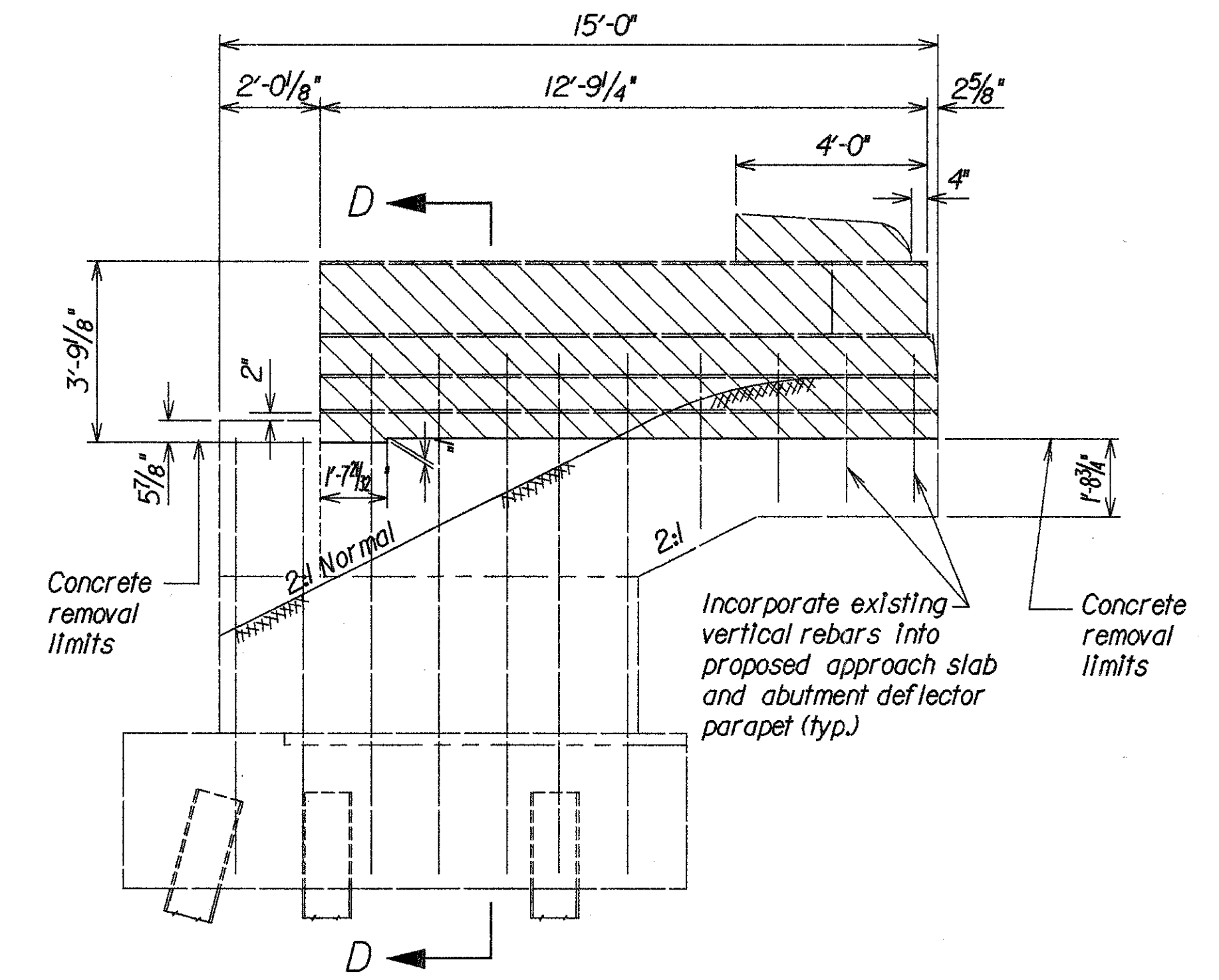
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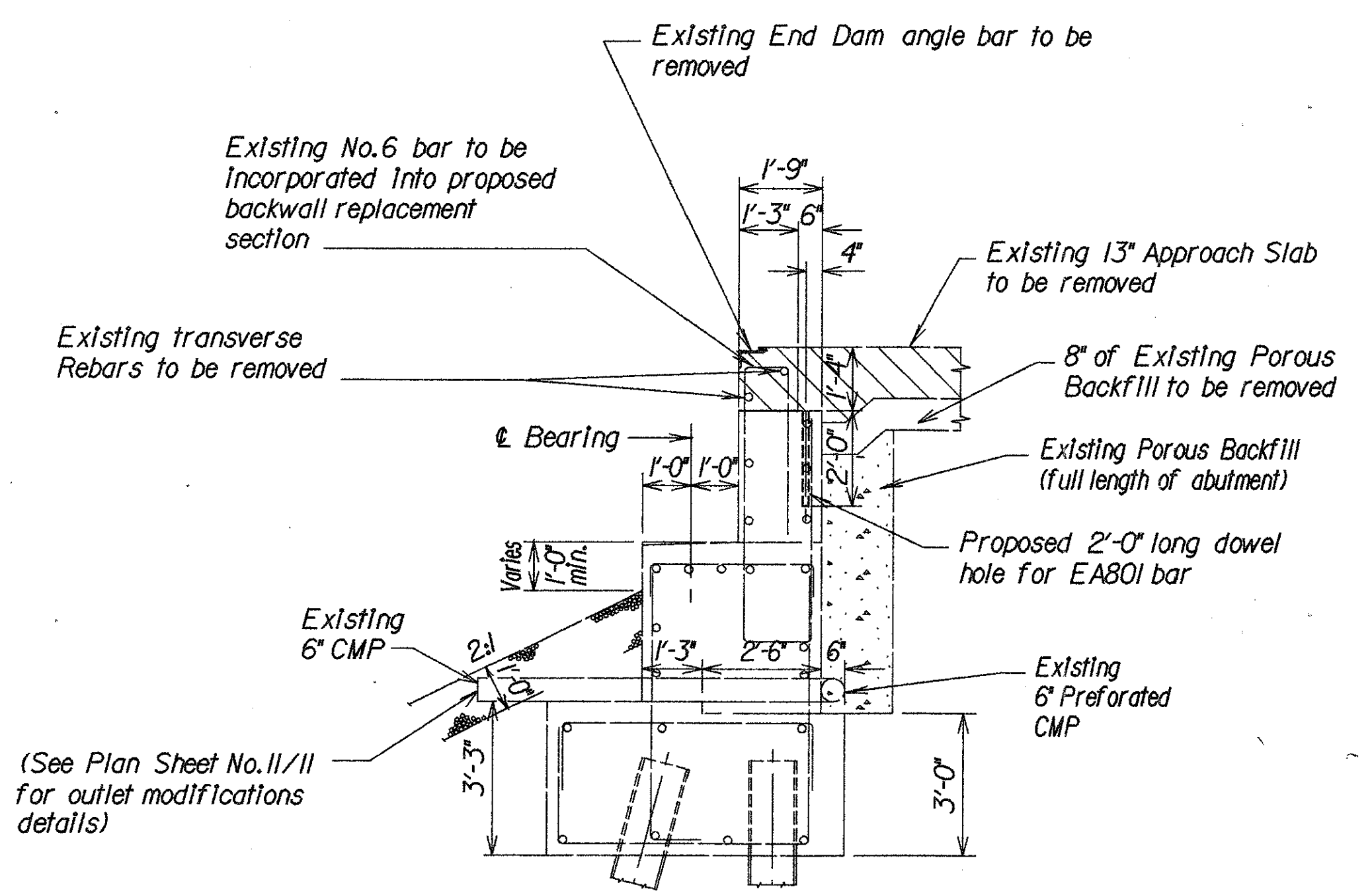
WINGWALL ELEVATION VIEW B-B



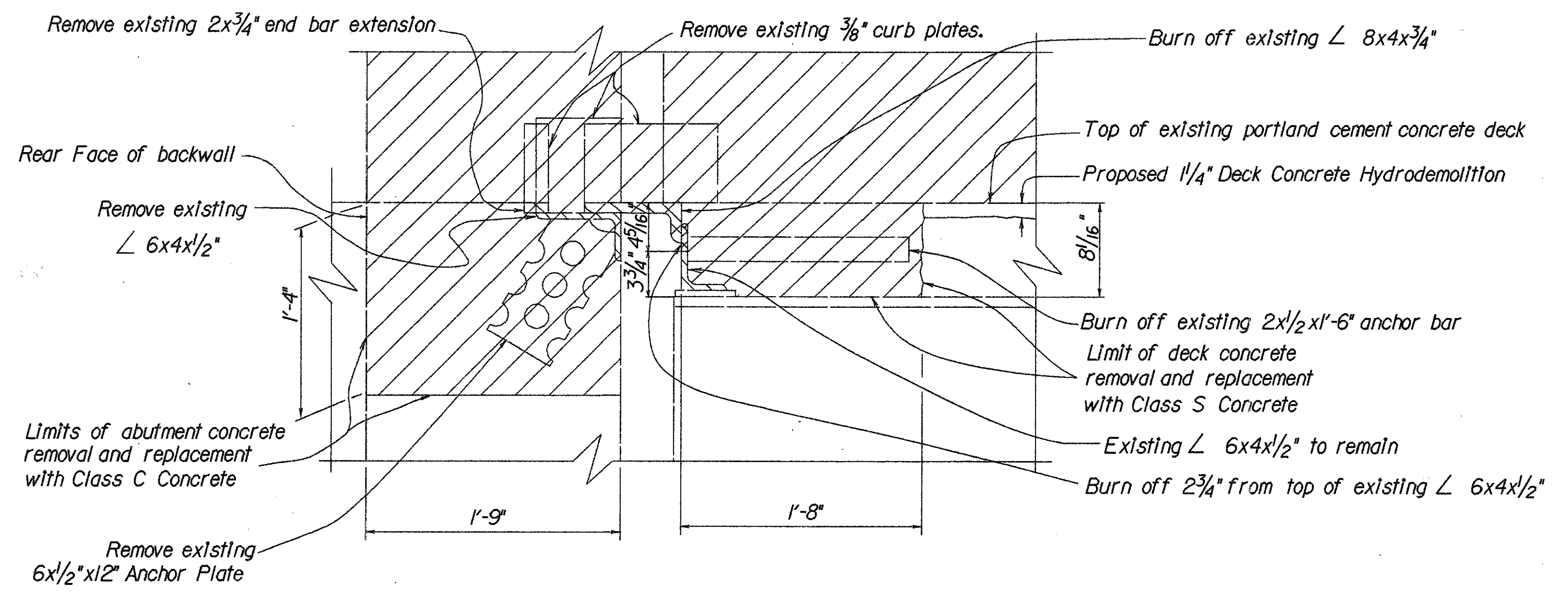
SECTION D-D



WINGWALL ELEVATION VIEW C-C



SECTION A-A



SECTION E-E

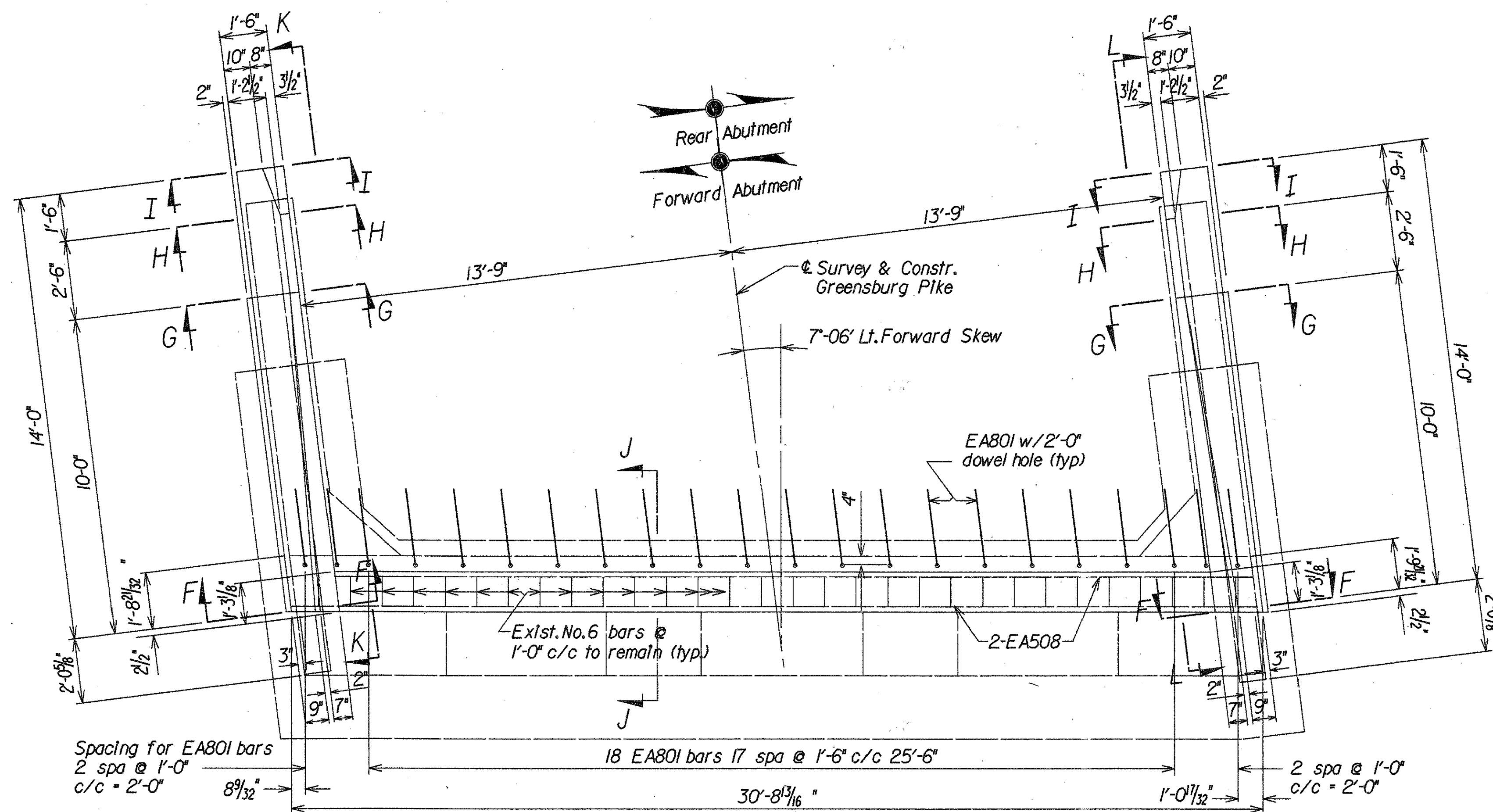
Note: SECTIONS "A-A", "B-B", "C-C", "D-D" and "E-E" refer to Sheet No. 4/11.

Proposed concrete removal area and/or end dam removal

EXISTING ABUTMENT WINGWALL AND BACKWALL REMOVAL DETAILS
BR. NO. WOO-75-1019
GREENSBURG PIKE

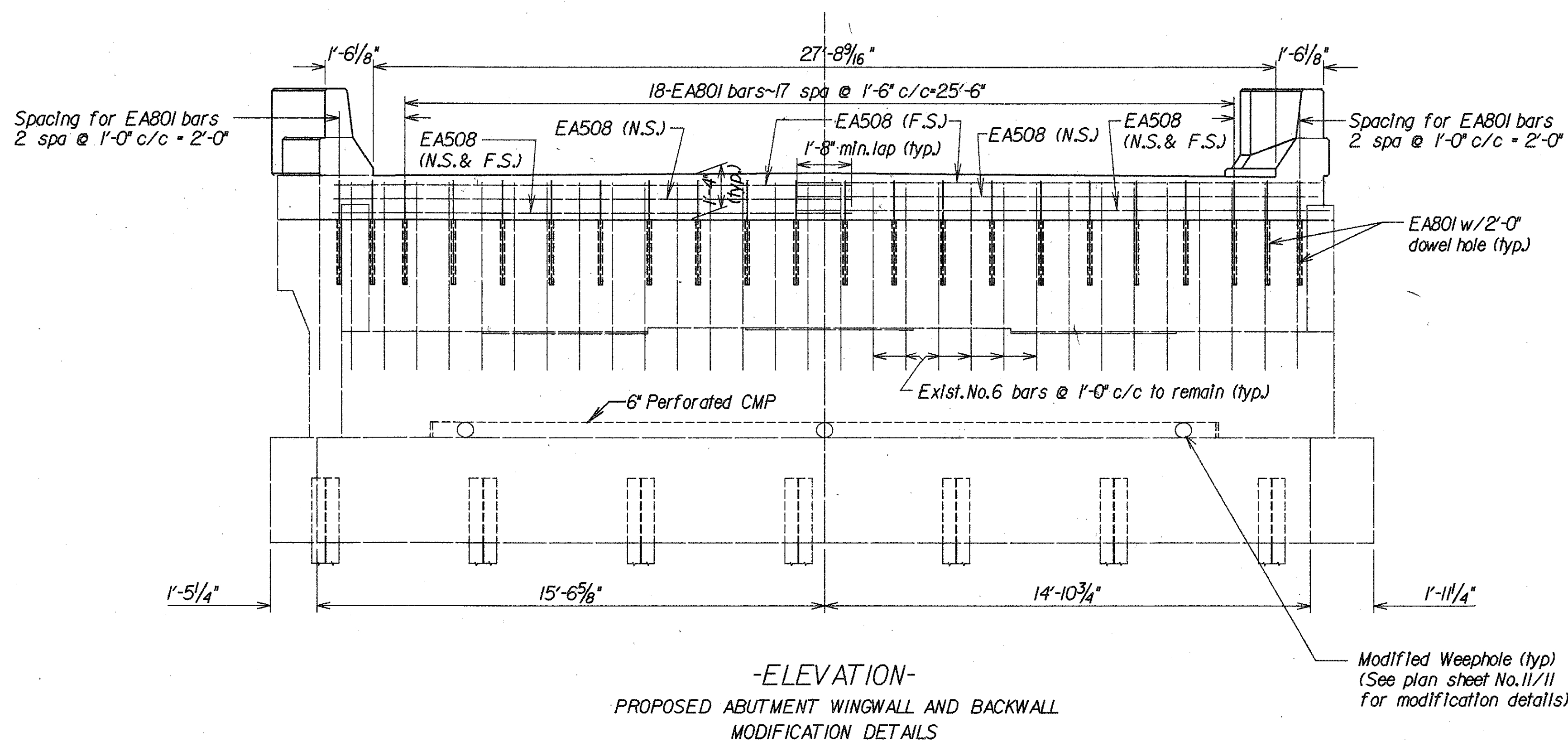
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
JML			GG	LCL 7/14/92	

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-PLAN VIEW-
PROPOSED ABUTMENT WINGWALL AND BACKWALL
MODIFICATION DETAILS

NOTE: N.S.=Near Side
F.S.=Far Side



-ELEVATION-
PROPOSED ABUTMENT WINGWALL AND BACKWALL
MODIFICATION DETAILS

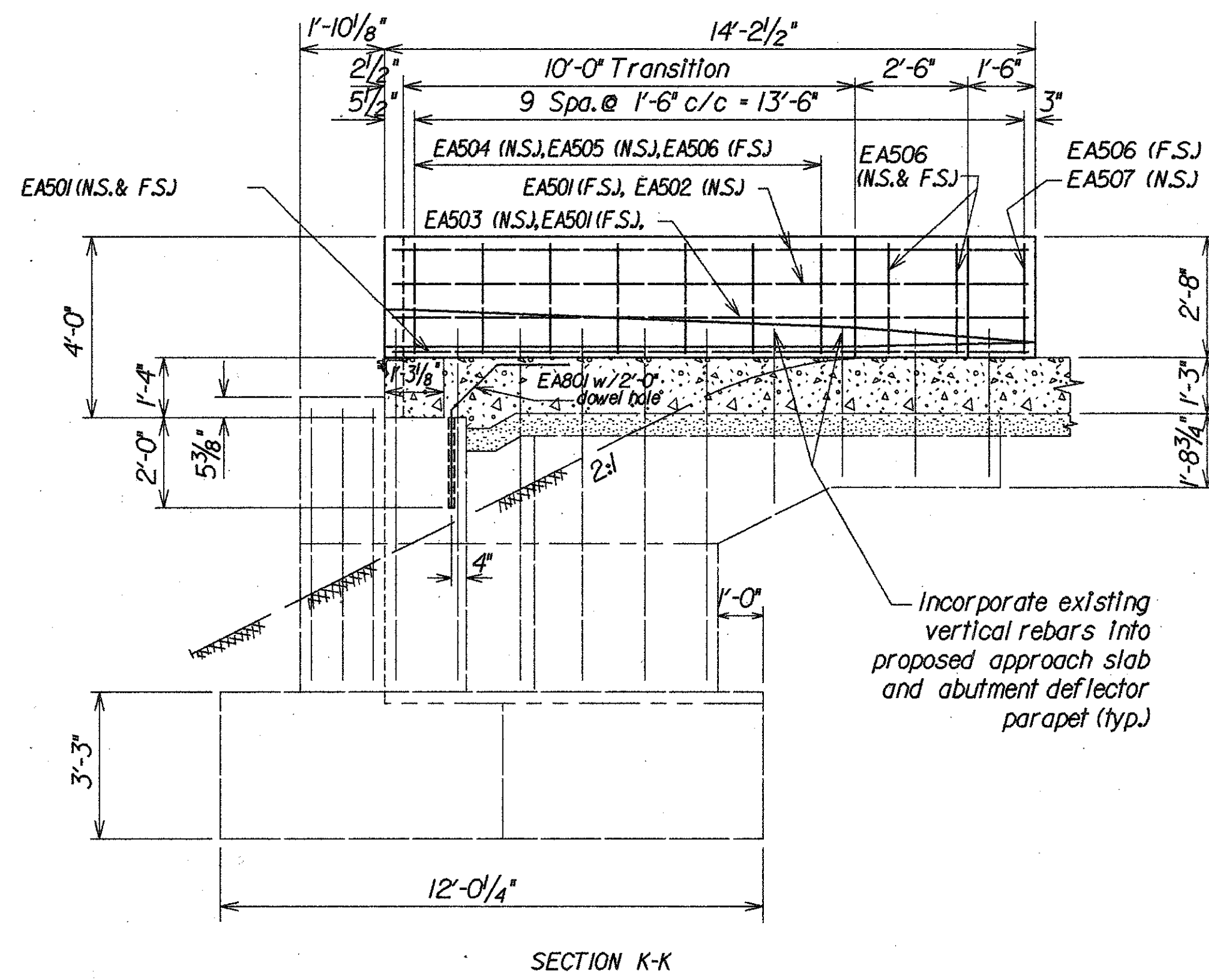
PROPOSED ABUTMENT WINGWALL AND BACKWALL
MODIFICATION DETAILS

BR. NO. W00-75-1019
GREENSBURG PIKE

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
JML			GG	LCL 7/14/92	

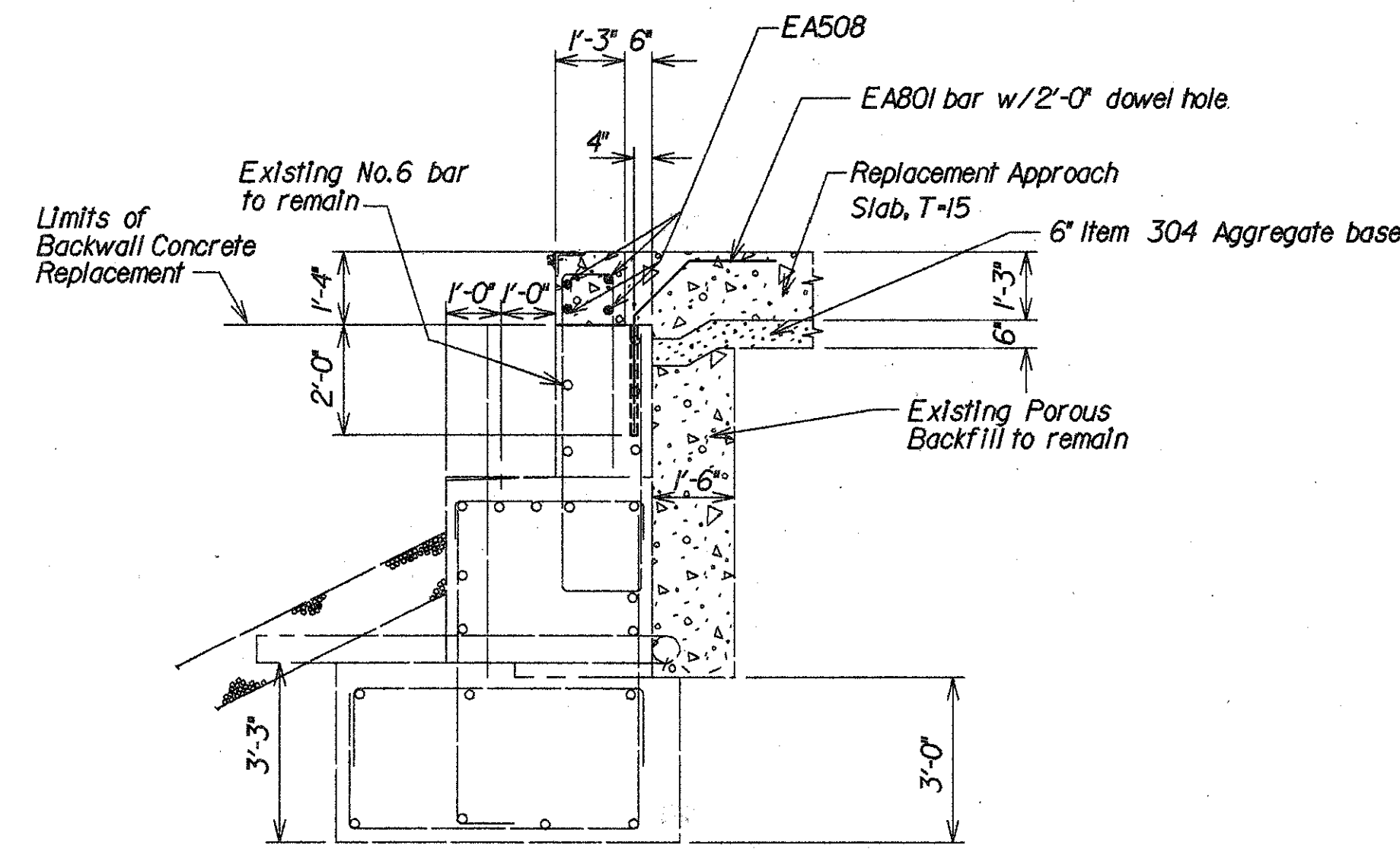
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WOO-75-3.01 (VARIOUS)



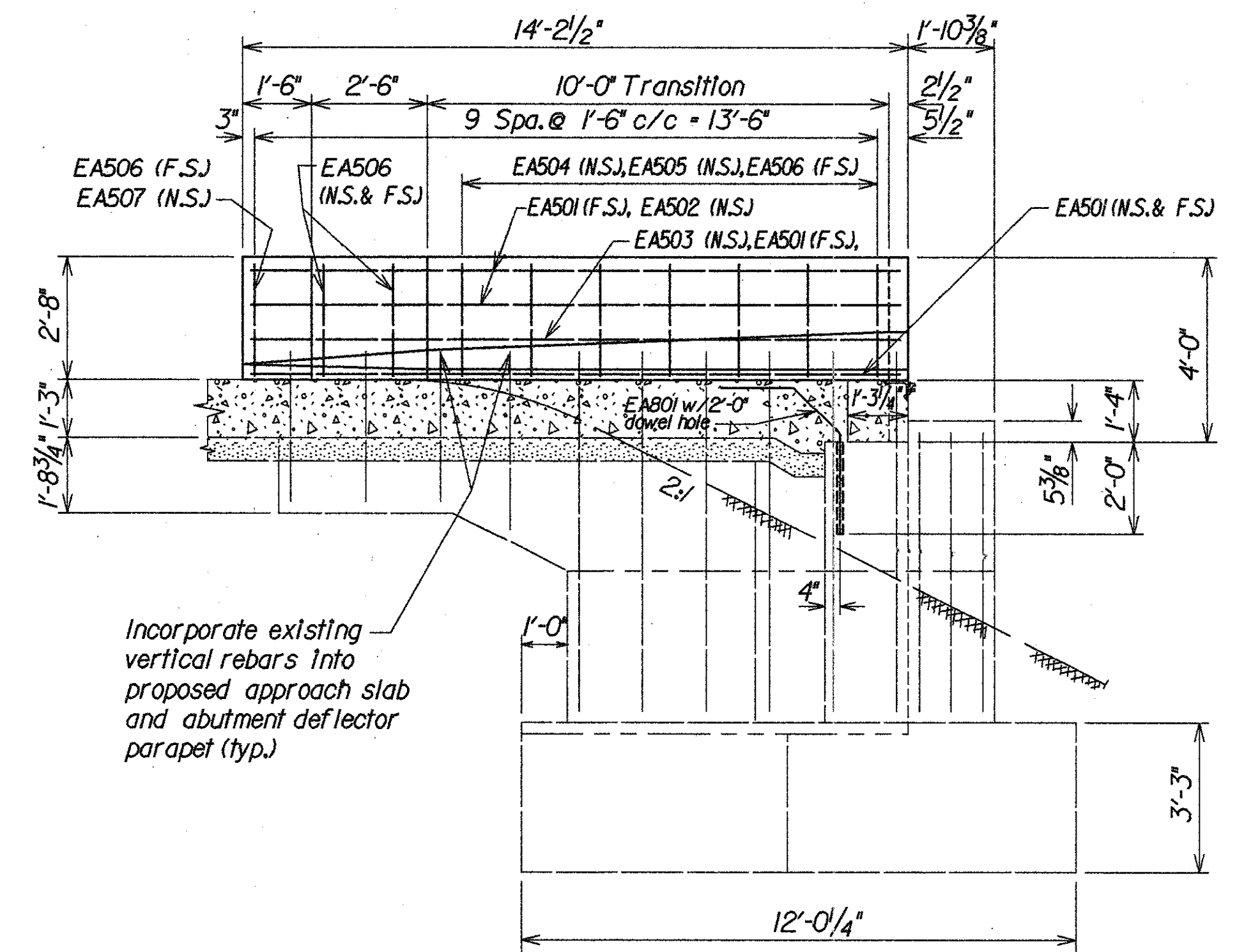
SECTION K-K

Incorporate existing vertical rebar into proposed approach slab and abutment deflector parapet (typ.)



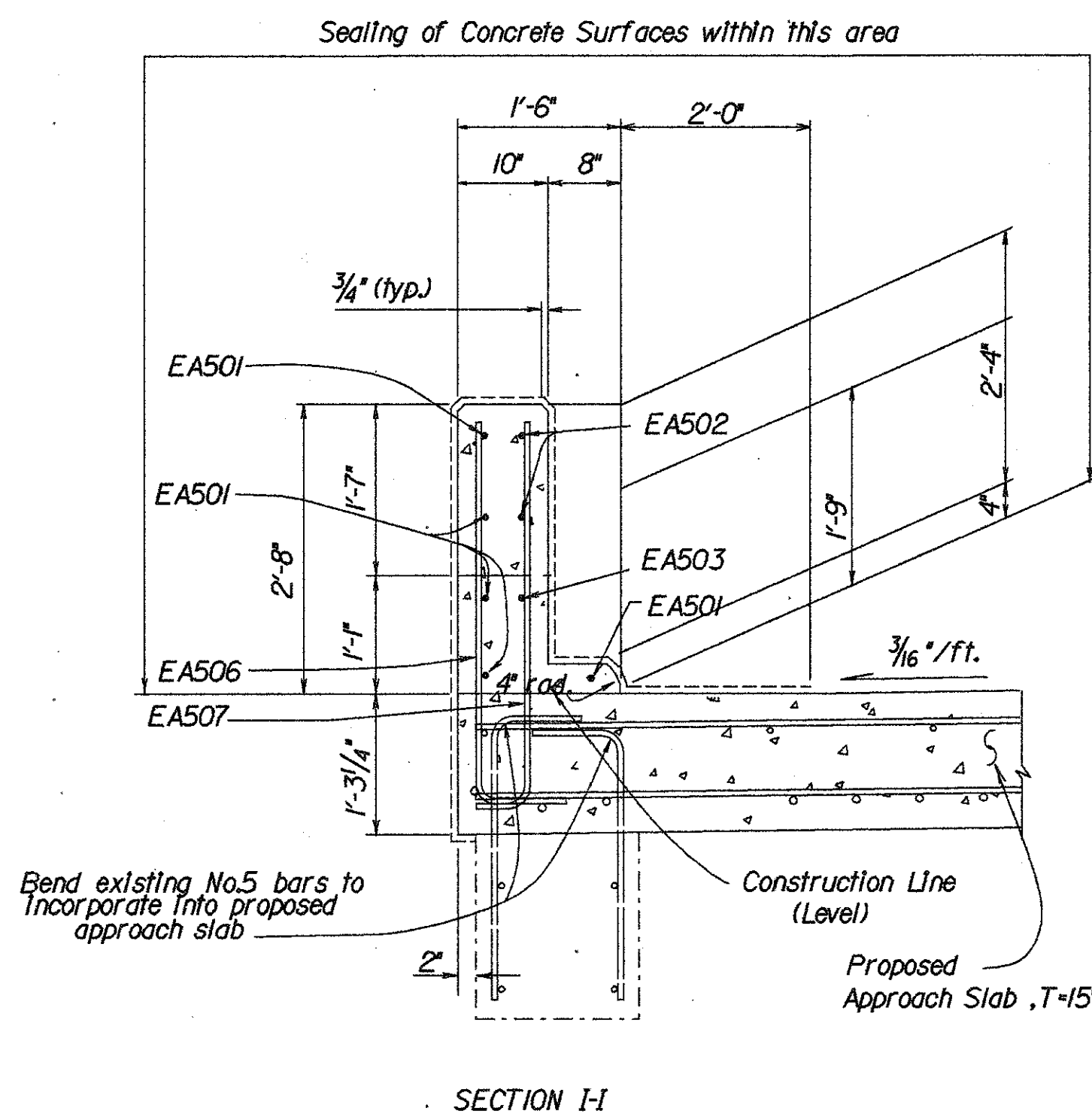
SECTION J-J

NOTE: N.S.-Near Side
F.S.-Far Side

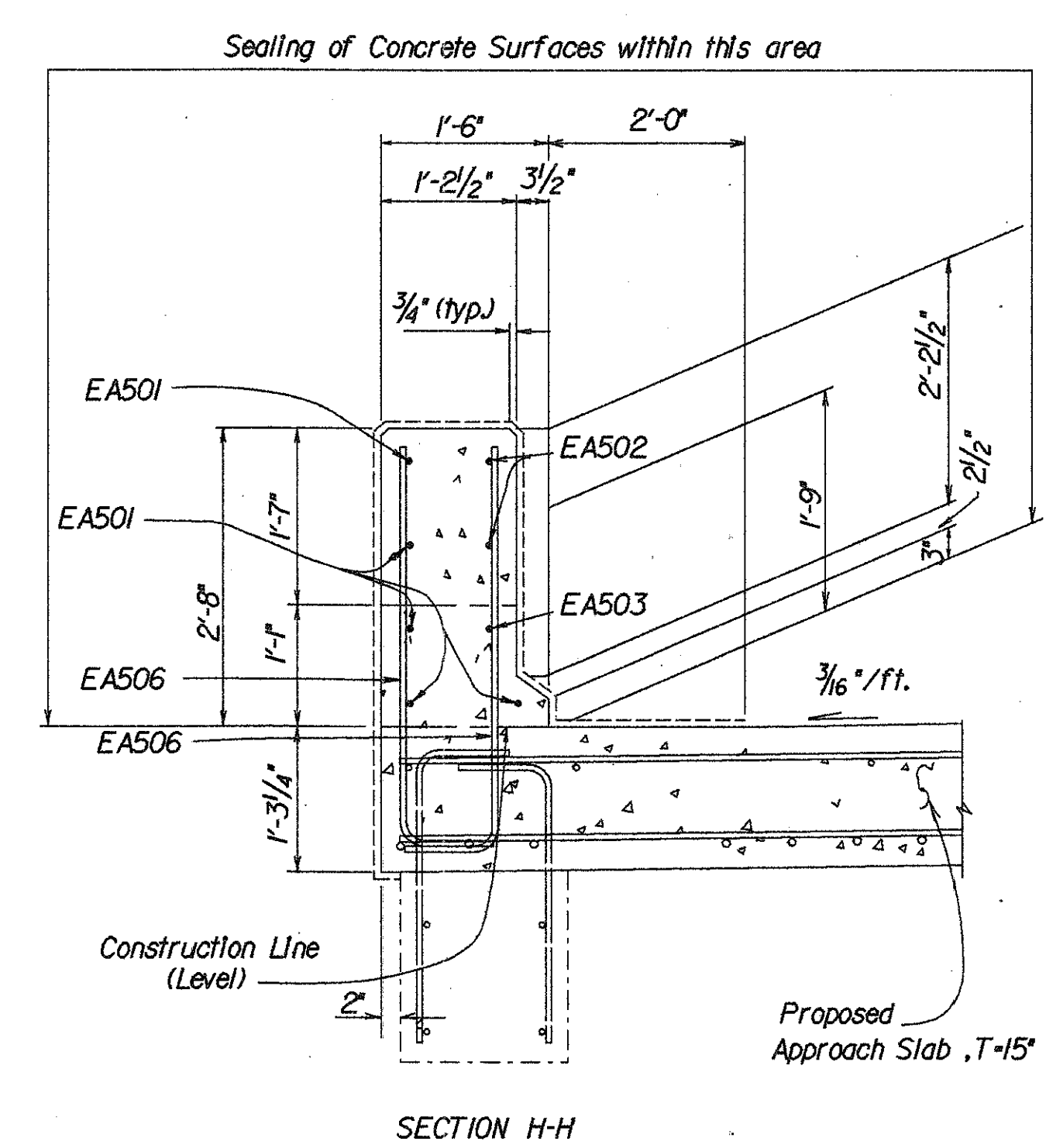


SECTION L-L

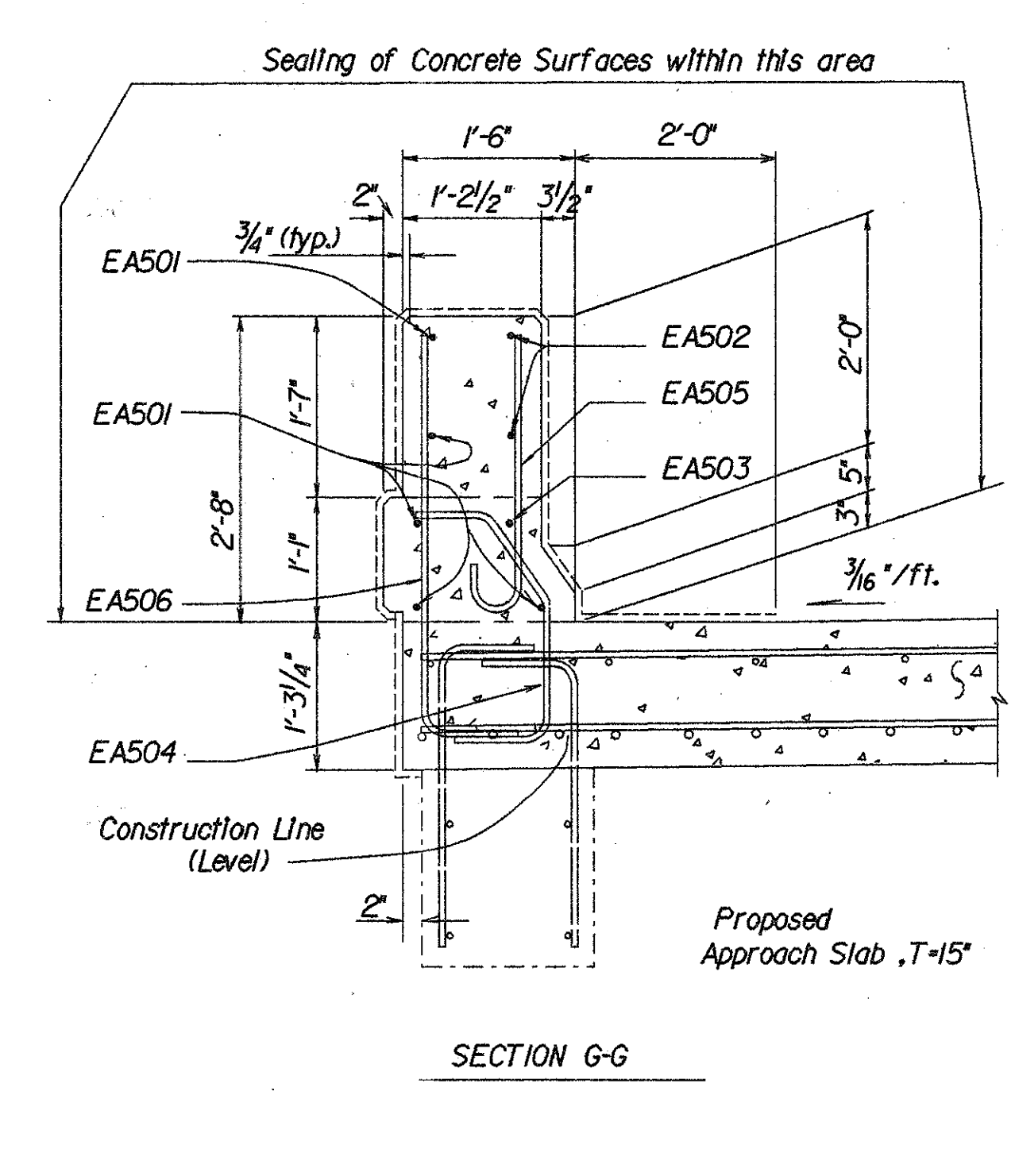
Incorporate existing vertical rebar into proposed approach slab and abutment deflector parapet (typ.)



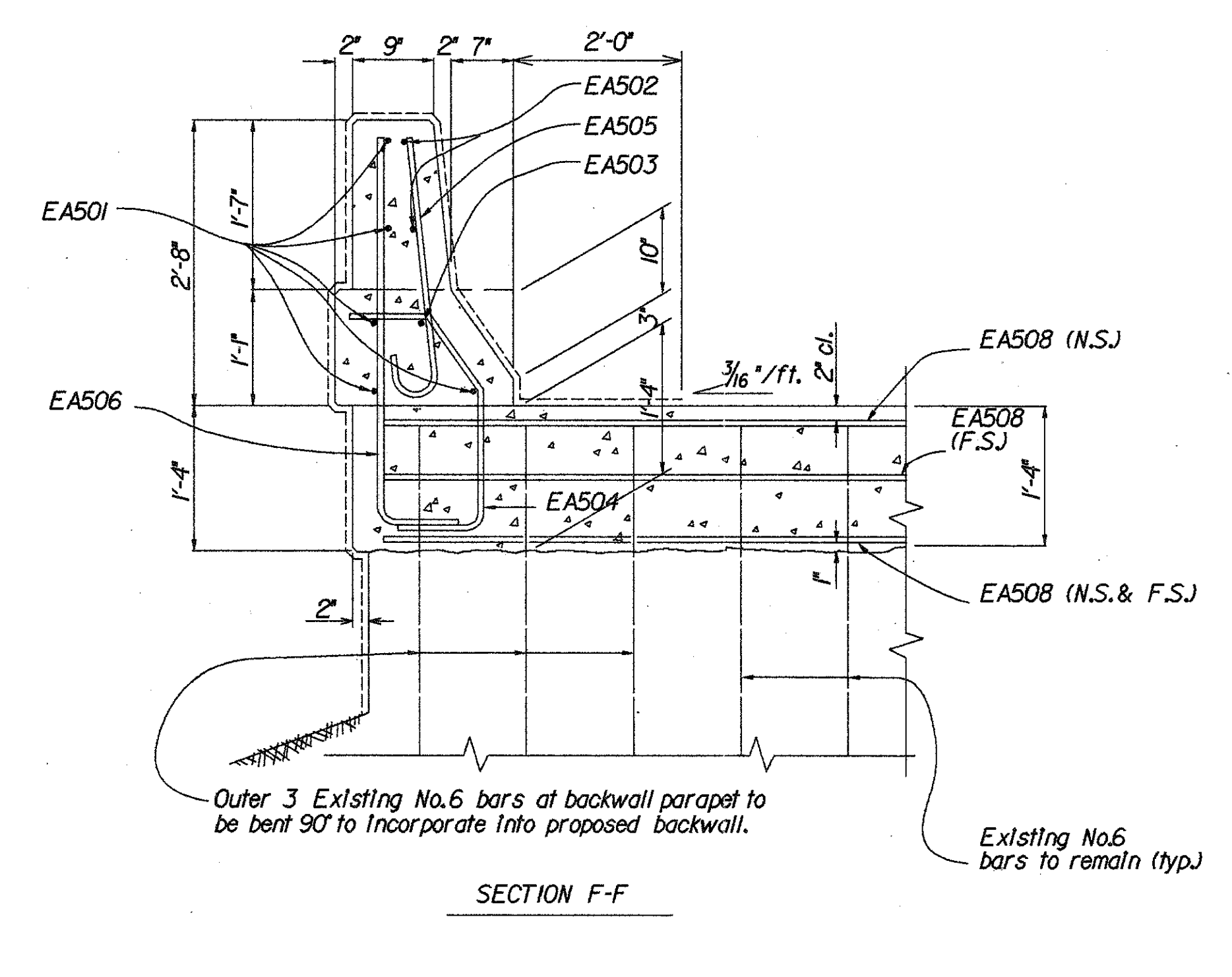
SECTION I-I



SECTION H-H



SECTION G-G

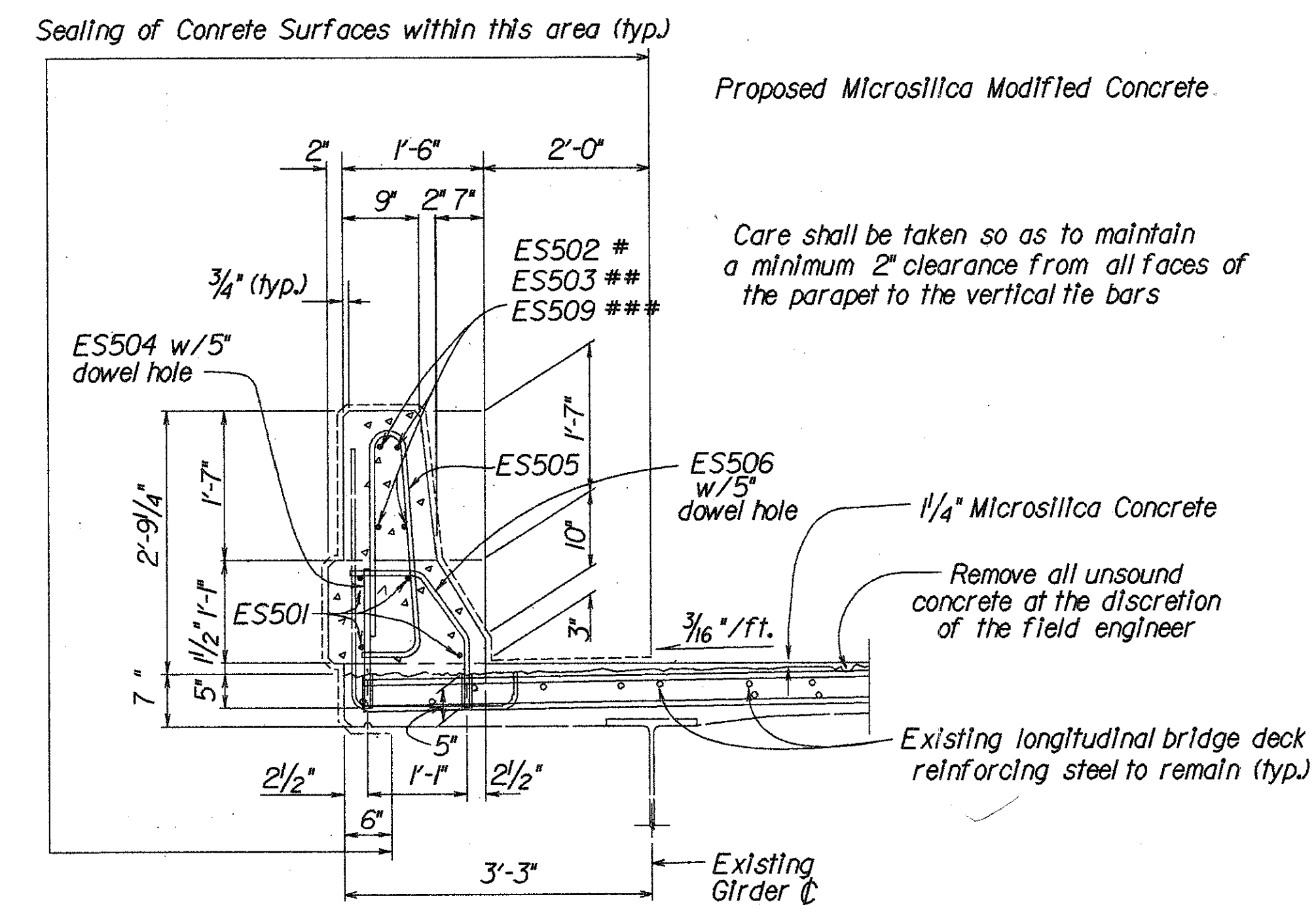
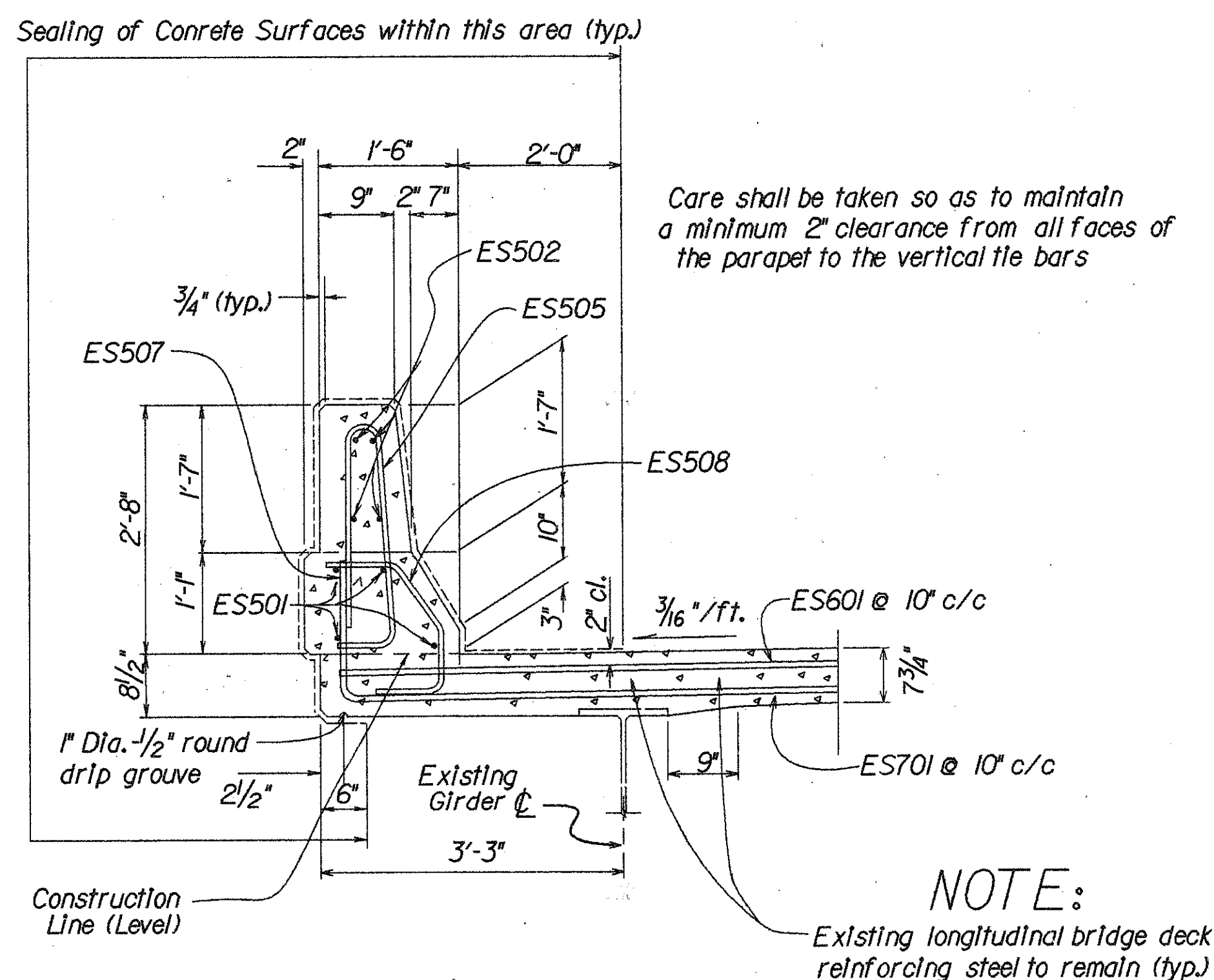
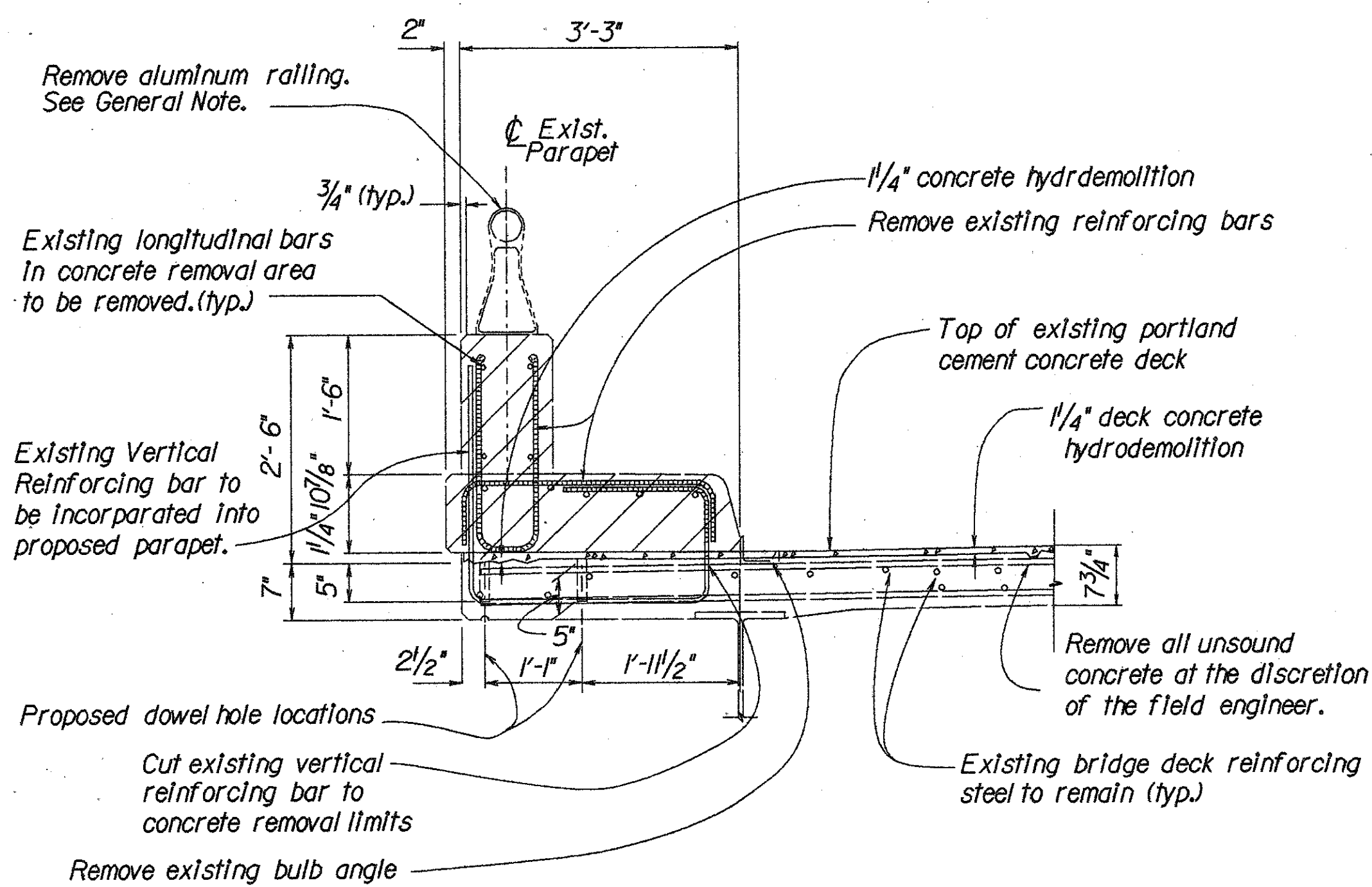
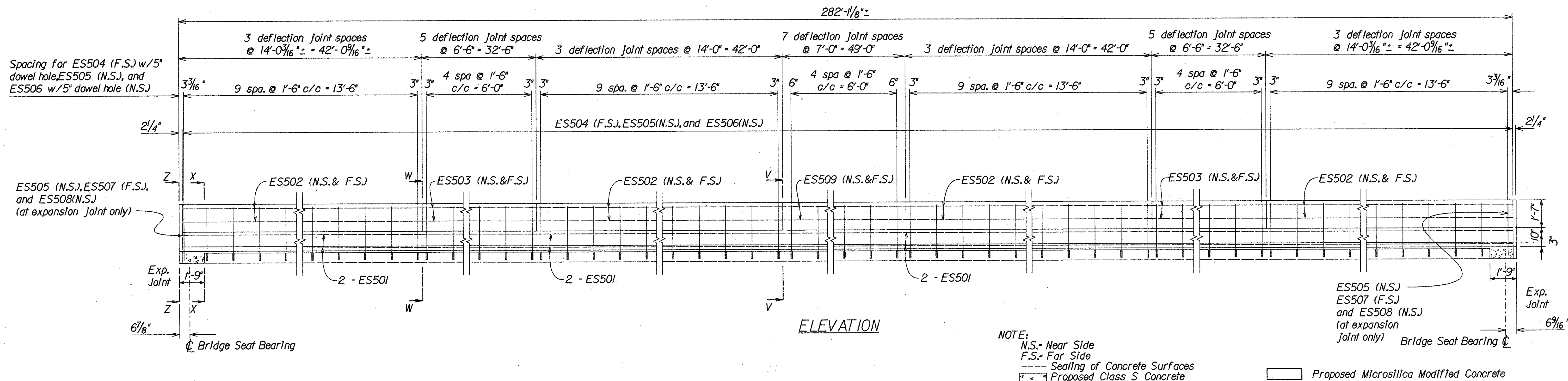


SECTION F-F

NOTE: SECTIONS "F-F", "G-G", "H-H", "I-I", "J-J", "K-K" and "L-L" refer to Plan Sheet No.6/11

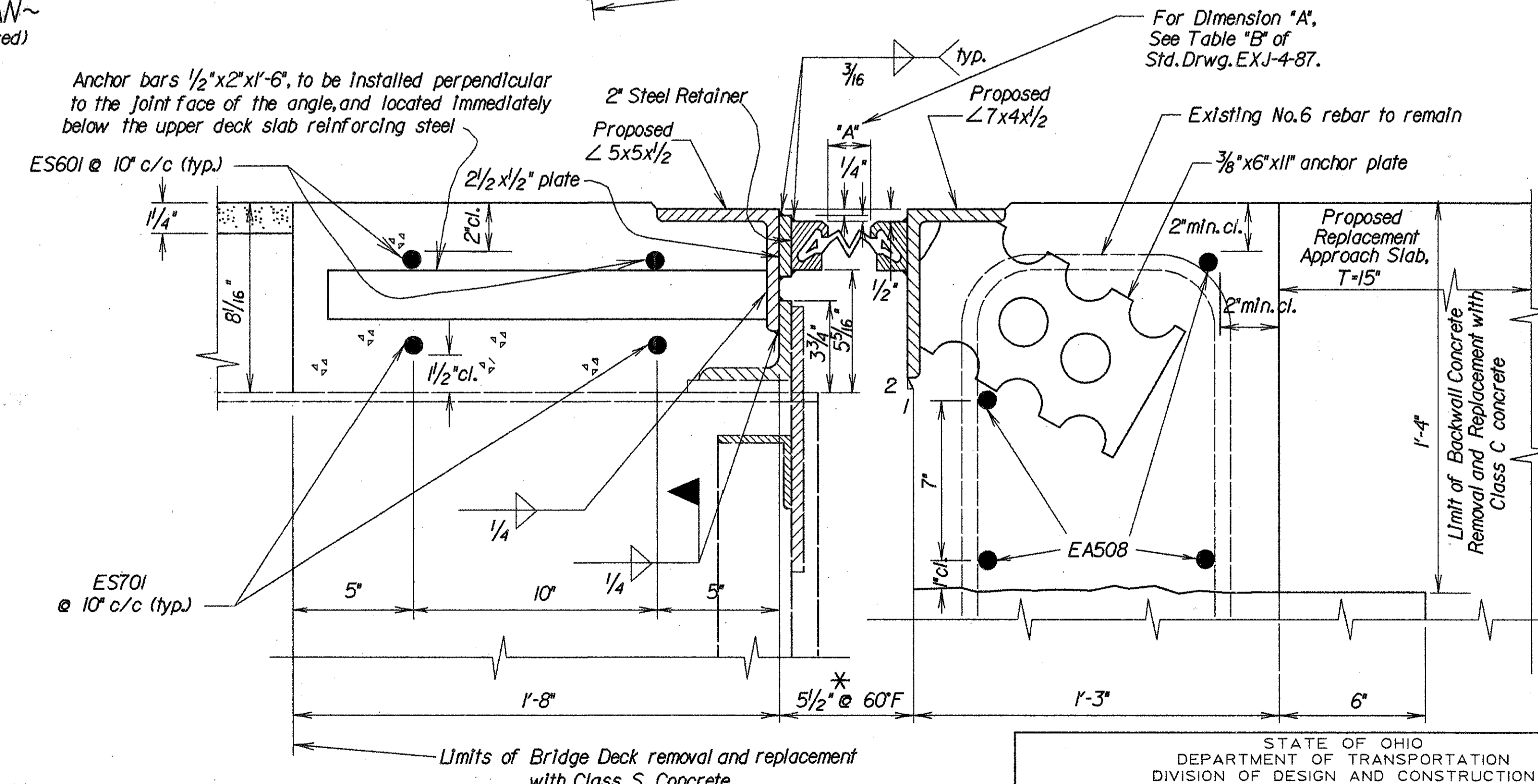
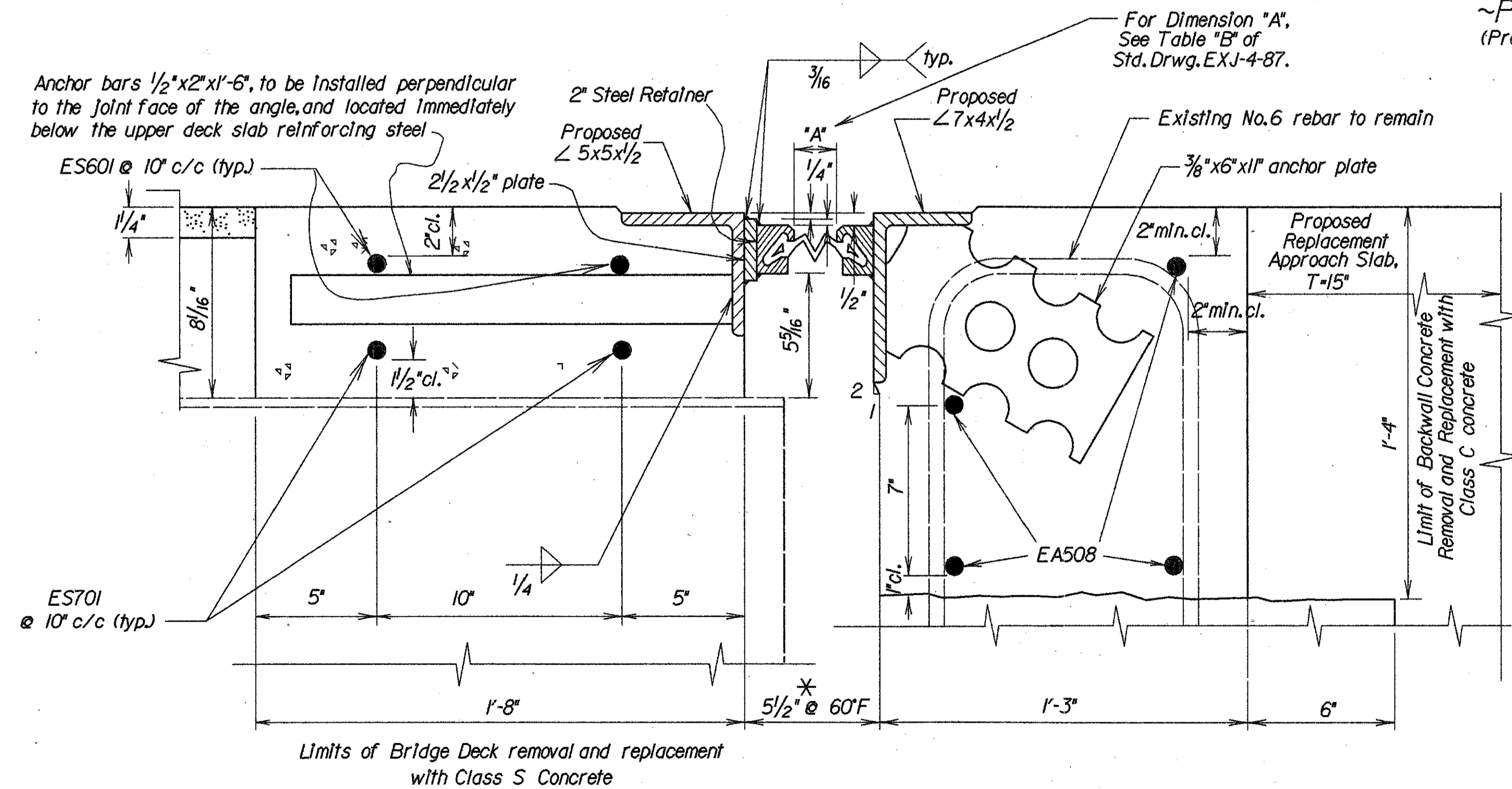
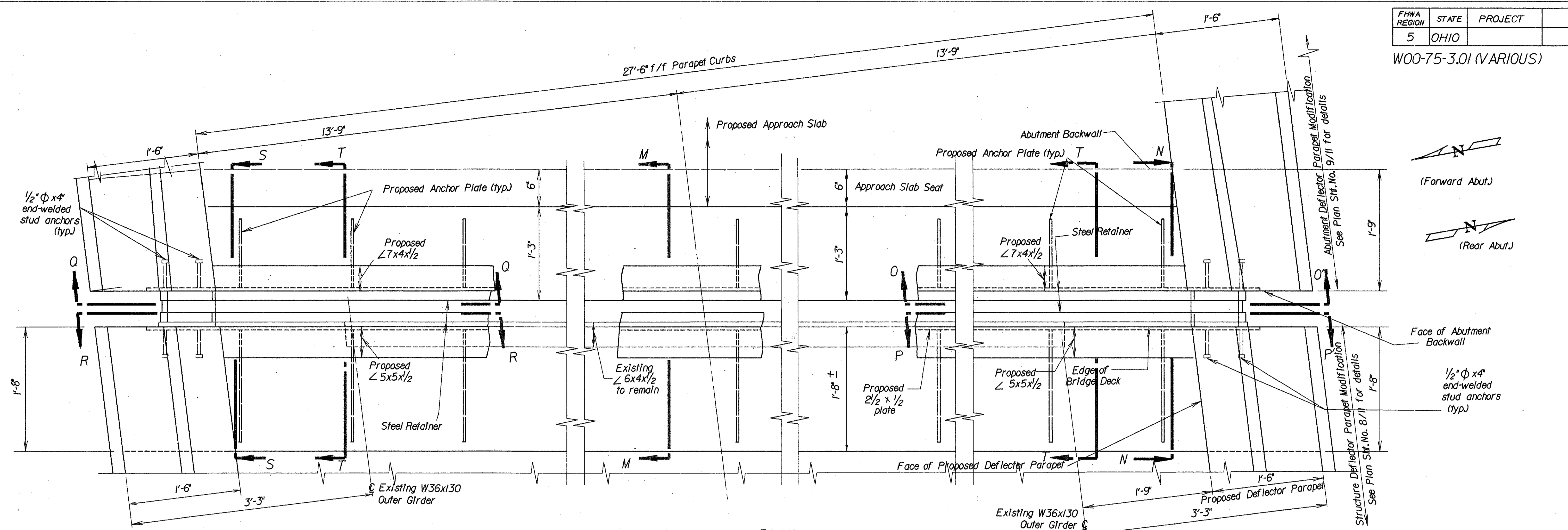
STATE OF OHIO DISTRICT 2 DEPARTMENT OF TRANSPORTATION DESIGN & PLANNING OFFICE					
ABUTMENT WINGWALL AND BACKWALL PARAPET MODIFICATION DETAILS					
BR. NO. WOO-75-1019 GREENSBURG PIKE					
DESIGNED JML	DRAWN	TRACED	CHECKED GG	REVIEWED DATE 6/22 7/14/92	REVISED

ZFAI:200,210JW75GP-AP-DGNH



STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES						8 / 11
STRUCTURE UPGRADING BRIDGE DEFLECTOR PARAPET MODIFICATION WOO-75-1019 GREENSBURG PIKE						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JML			GG	LLC	7/14/2	

ZFA1:2002101W75GPPD .DGNH



~SECTION T-T~
(Proposed End Dam Modification at Outer Girders)
NOTE: For additional abutment backwall details, including location of proposed rebar, see Plan Sheet No. 6/11

* NOTE: Dimension 1s based on original construction plans, and 1s to be verified in the field by the contractor.

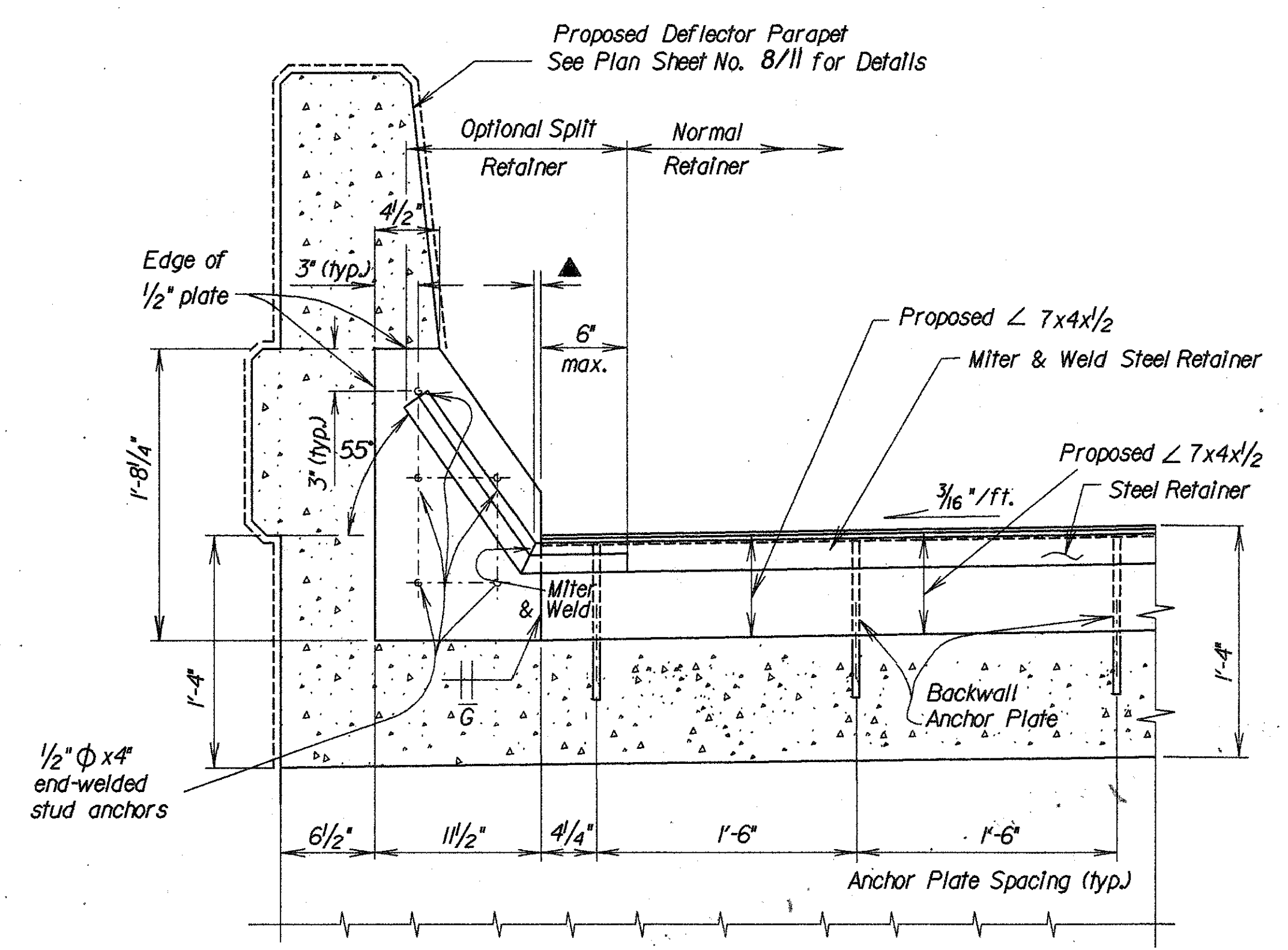
~SECTION M-M~
(Proposed End Dam Modification Between Existing Outer Girders)

Note: For Sections "N-N", "O-O", "P-P", "Q-Q", "R-R", "S-S", and "T-T" see Plan Sheet No. 10/11

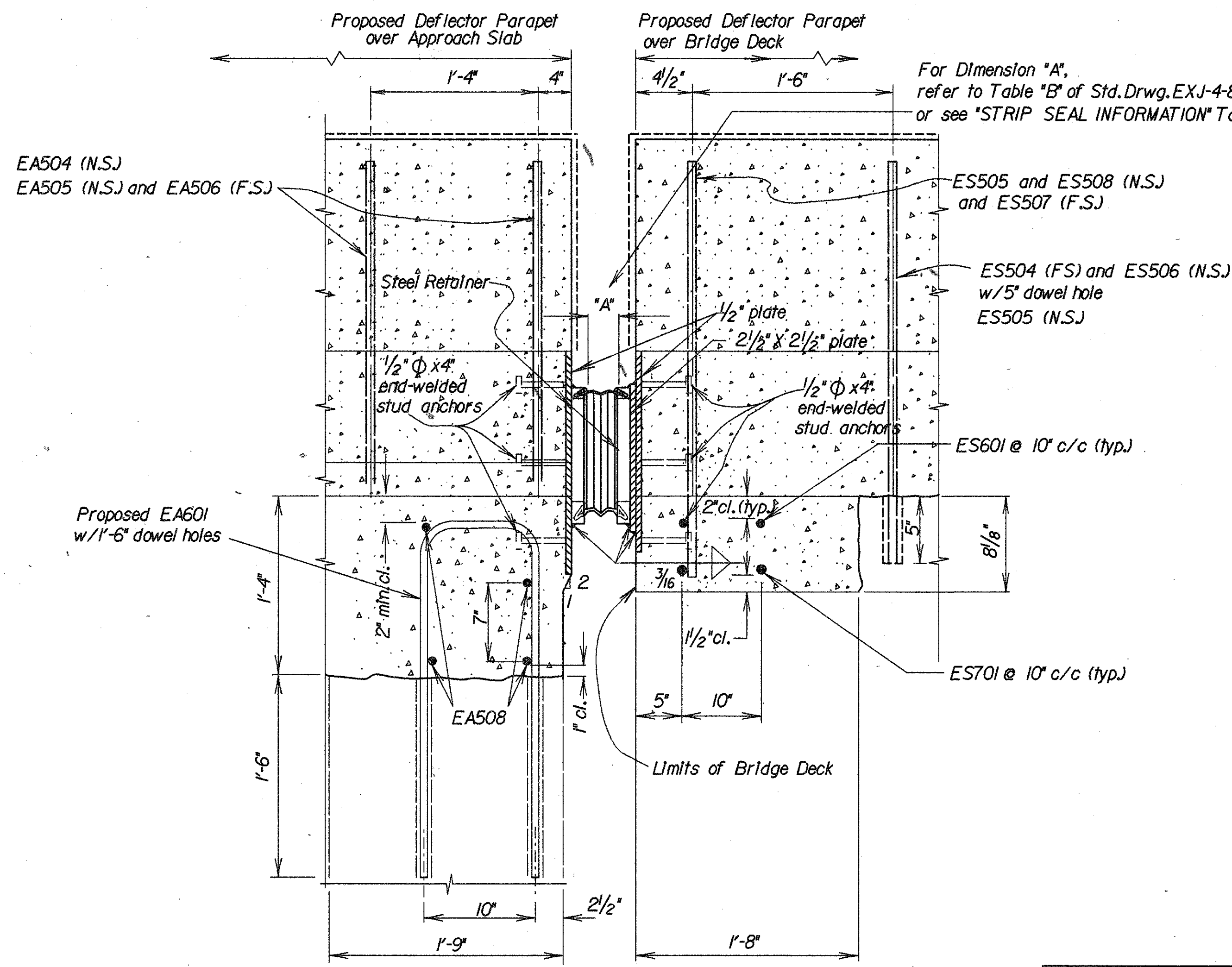
1/4" Microsilica Modified Concrete
Proposed Replacement Class S Concrete (Bridge Superstructure) and Replacement Class C Concrete (Abutment Backwall)

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES					
STRUCTURE UPGRADING EXPANSION JOINT DETAILS, AS PER PLAN A, AT ABUTMENT BRIDGE NO. W00-75-1019 GREENSBURG PIKE					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
JML			GG	LCL	7/15/92

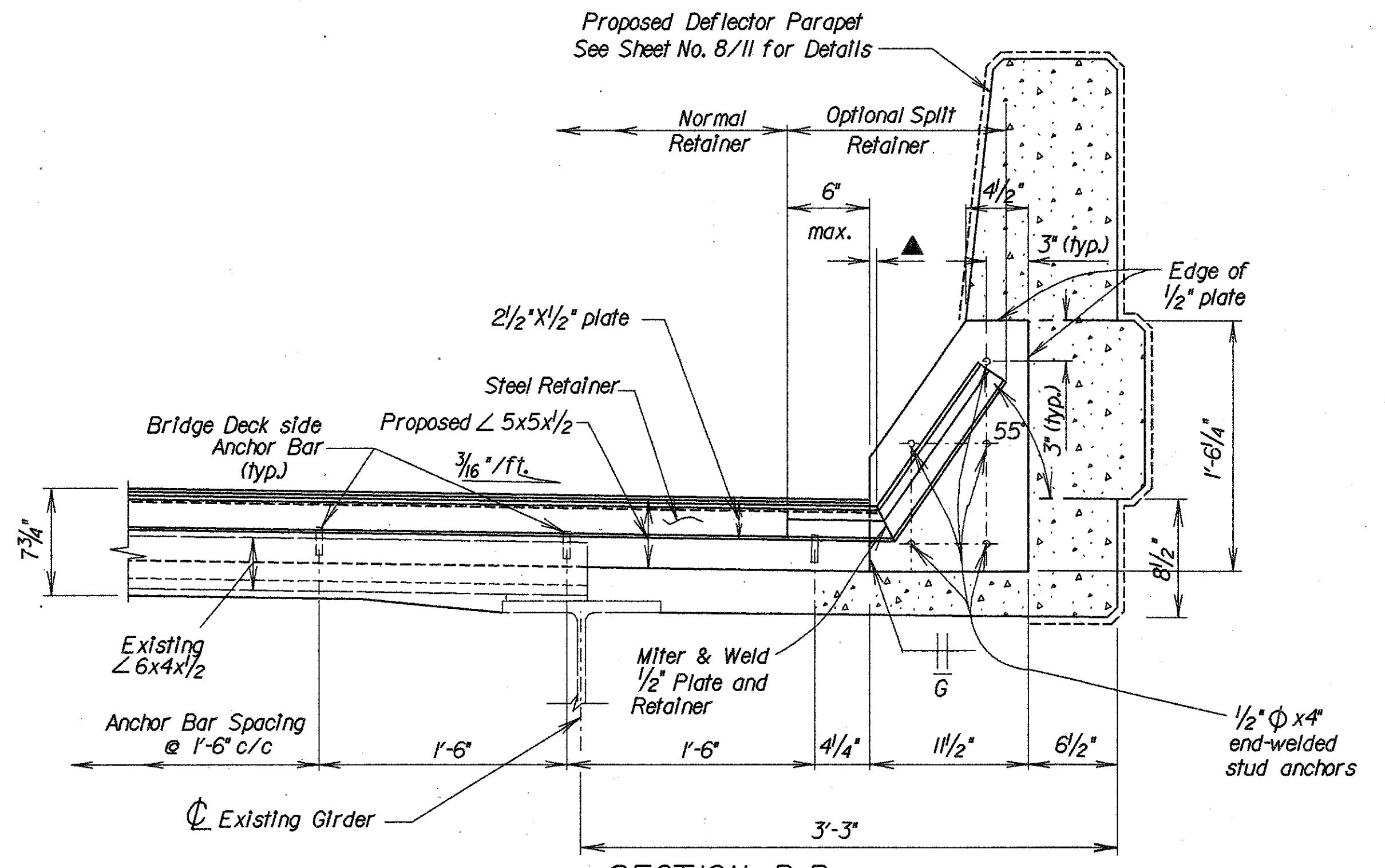
ZFAI-L2002101 W75GPE2.DGN



~SECTION Q-Q~
~SECTION O-O~(Reversed)



~SECTION S-S~ (Reversed)
~SECTION N-N~ (Proposed ~ at Deflector Parapet)



~SECTION R-R~
~SECTION P-P~(Reversed)

- ▲ ~ 0" min. 1/2" max. to breakpoint in retainer
- Sealing of Concrete Surfaces
- Replacement Concrete

Sections "N-N", "O-O", "P-P", "Q-Q", "R-R", and "S-S" refer to Plan Sheet No. 9/11

NOTE: N.S. = Near Side
F.S. = Far Side

STRIP SEAL INFORMATION

TEMPERATURE, °F	DIMENSION "A", INCHES	
	REAR ABUTMENT	FORWARD ABUTMENT
30	5/16	5/16
40	1 1/16	1 1/16
50	1 1/16	1 1/16
60	1 1/16	1 1/16
70	1 1/2	1 1/2
80	1 3/8	1 3/8
90	1 1/4	1 1/4
REQUIRED SEAL SIZE	3"	3"

STRIP SEAL DATA

SEAL SIZE	THE D.S. BROWN COMPANY	STRUCTURAL ACCESSORIES INC.	WATSON-BOWMAN & ACME CORP.
3"	300L	40-SEQ	SE-300

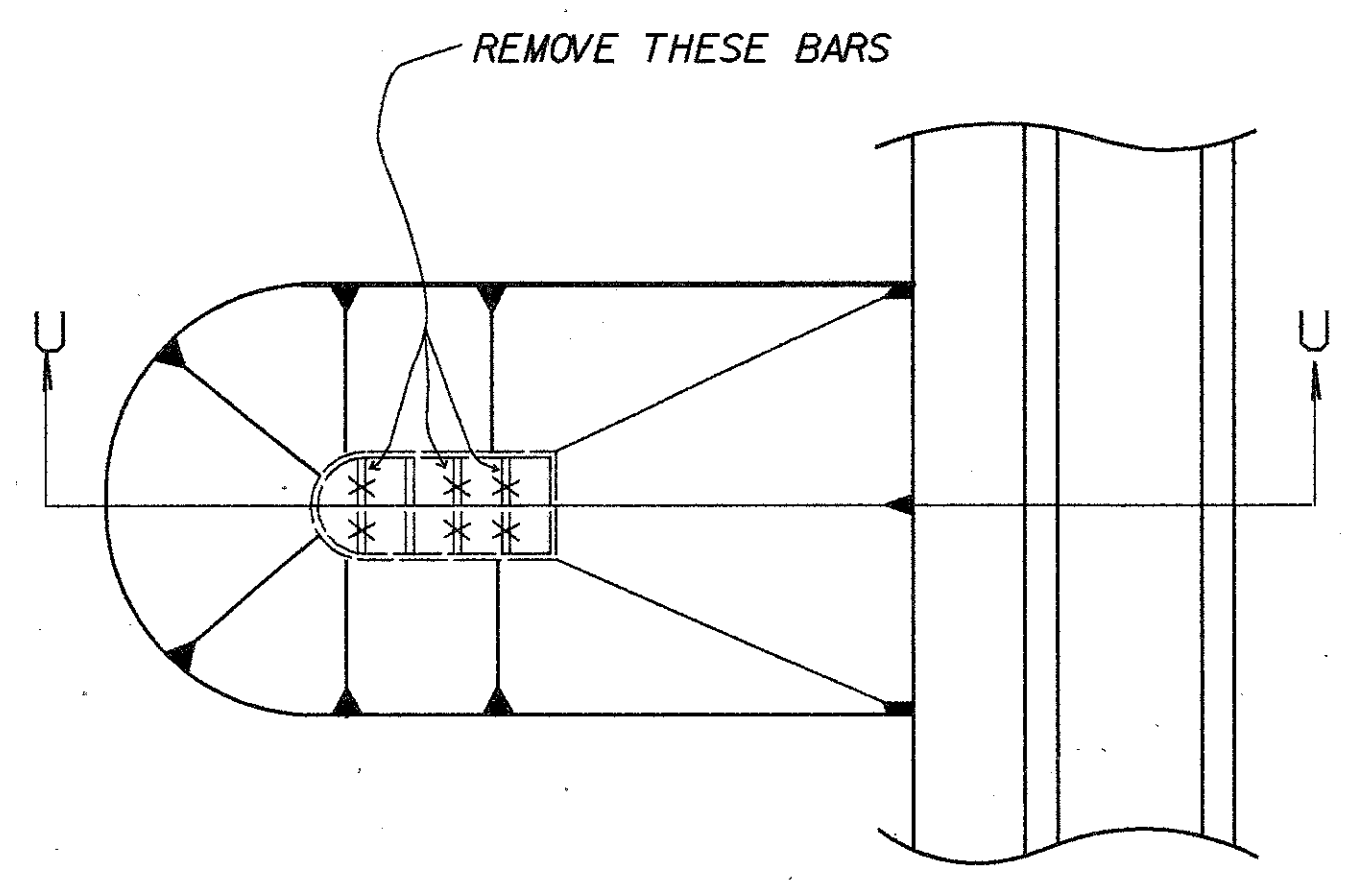
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF LOCATION AND DESIGN

10 / 11

STRUCTURE UPGRADING
EXPANSION JOINT DETAILS, AS PER PLAN A,
AT ABUTMENT
BRIDGE NO. W00-75-1019
GREENSBURG PIKE

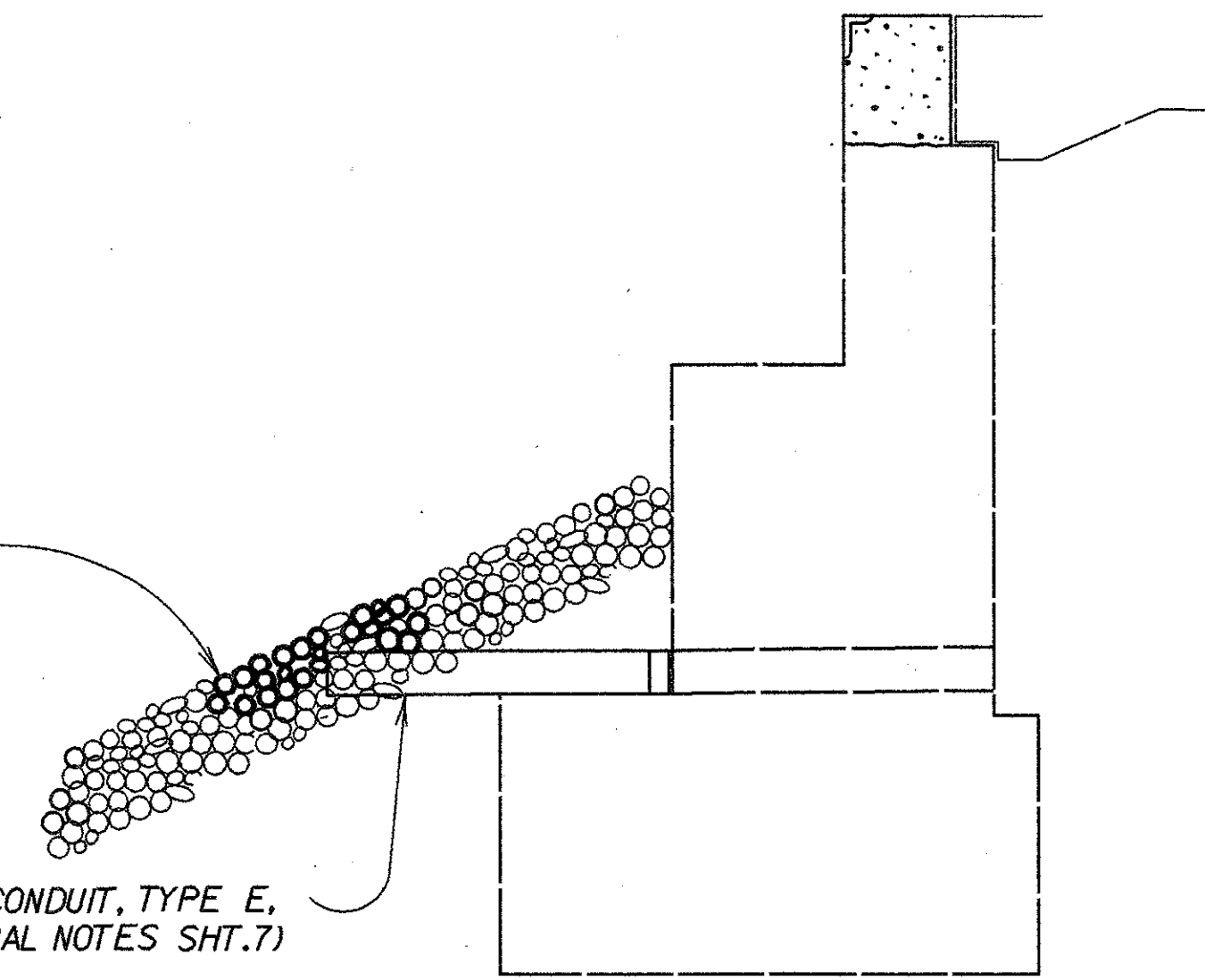
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JVL			GG	LCL	7/29/82	

SCUPPER MODIFICATION DETAIL

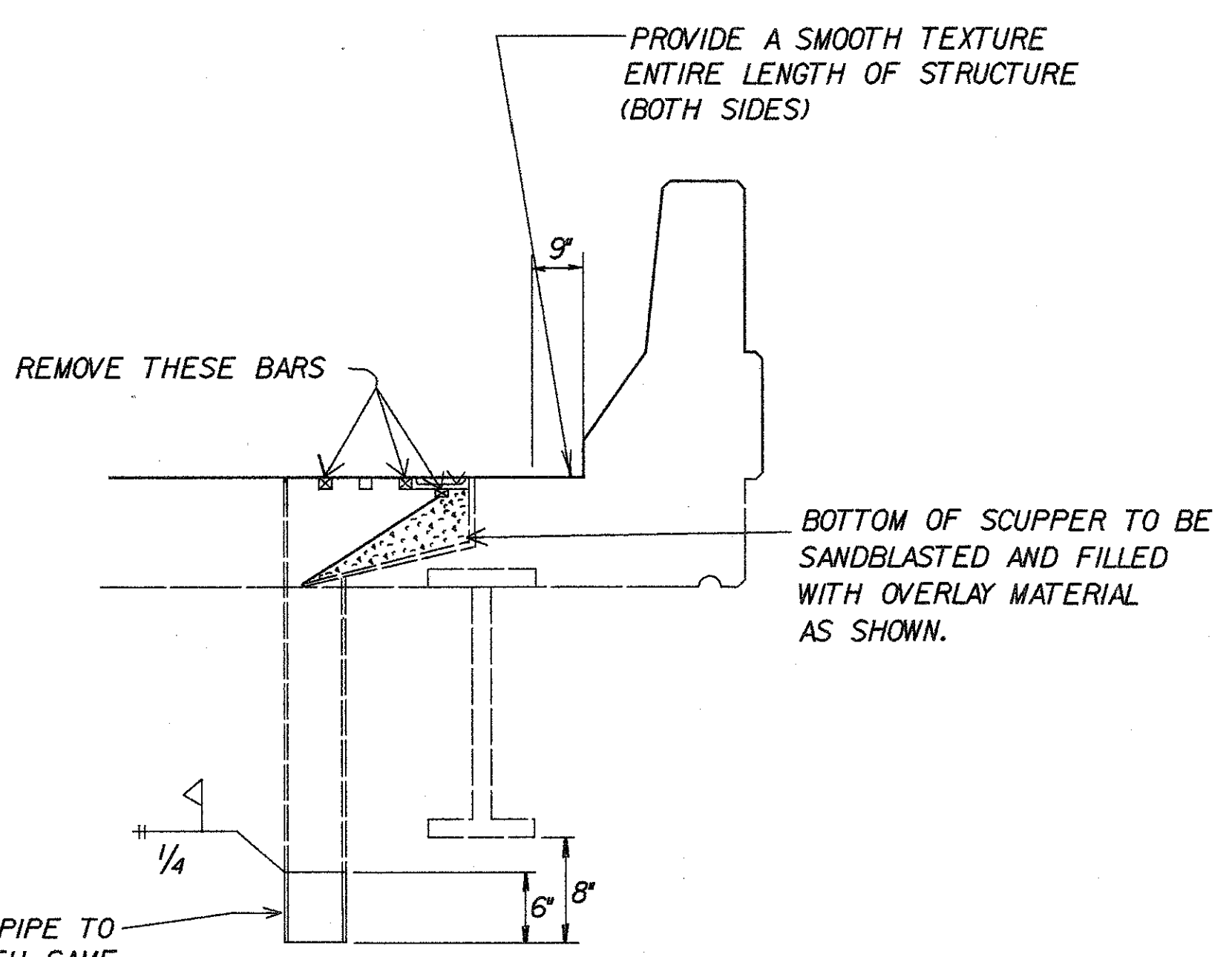


PLAN VIEW

ESTIMATED QUANTITY 40 CU.YD. OF ITEM 601, CRUSHED AGGREGATE SLOPE PROTECTION TO BE USED AS DIRECTED BY THE ENGINEER FOR LEVELING THE EXISTING SLOPE PROTECTION



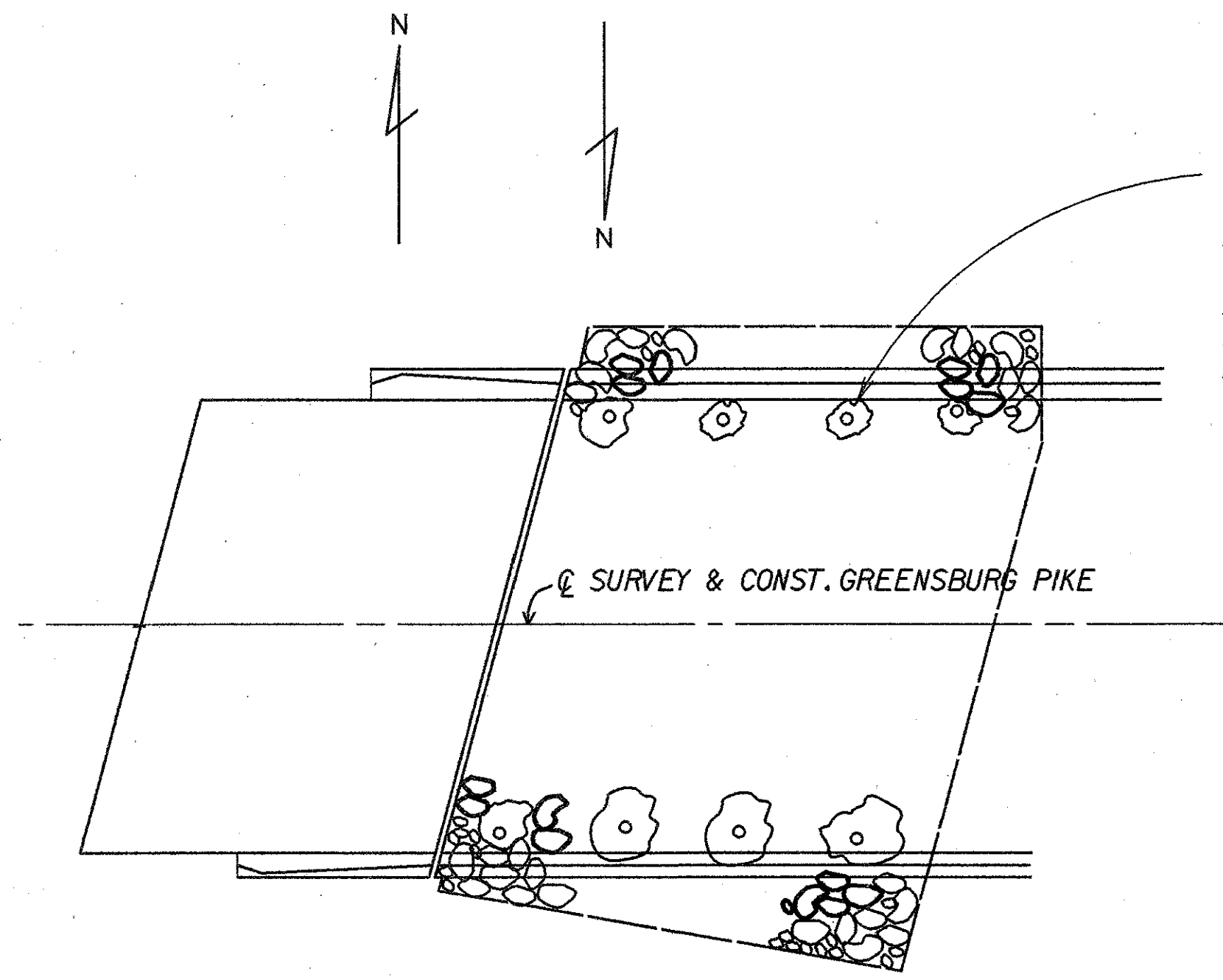
ELEVATION



SECTION U-U

EXTEND EXISTING OUTLET PIPE TO 8" BELOW BEAM FLANGE WITH SAME SIZE STEEL PIPE AS EXISTING, INCLUDE COST IN ITEM 518, SCUPPER MODIFICATION, AS PER PLAN.

REAR ABUTMENT FORWARD ABUTMENT

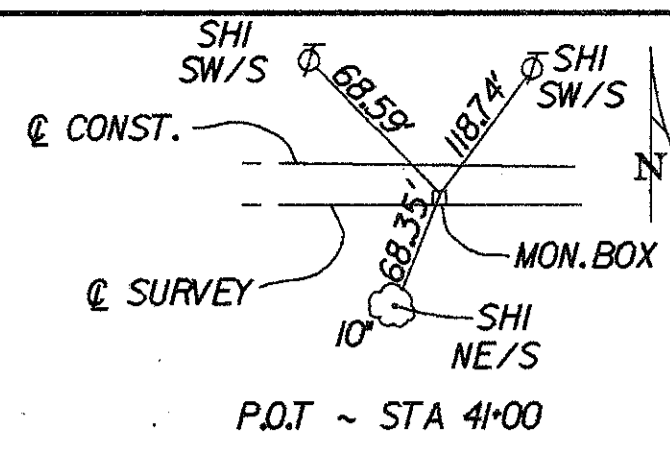


PLAN

THE EXISTING AND PROPOSED CRUSHED AGGREGATE SLOPE PROTECTION DIRECTLY UNDER THE BRIDGE DRAINAGE SCUPPERS SHALL BE PROTECTED BY GROUTING A 5' X 5' AREA OF AGGREGATE AS PER 601.03. AN ESTIMATED QUANTITY OF 23 SQ.YDS. SHALL BE USED AS DIRECTED BY THE ENGINEER FOR THIS PURPOSE.

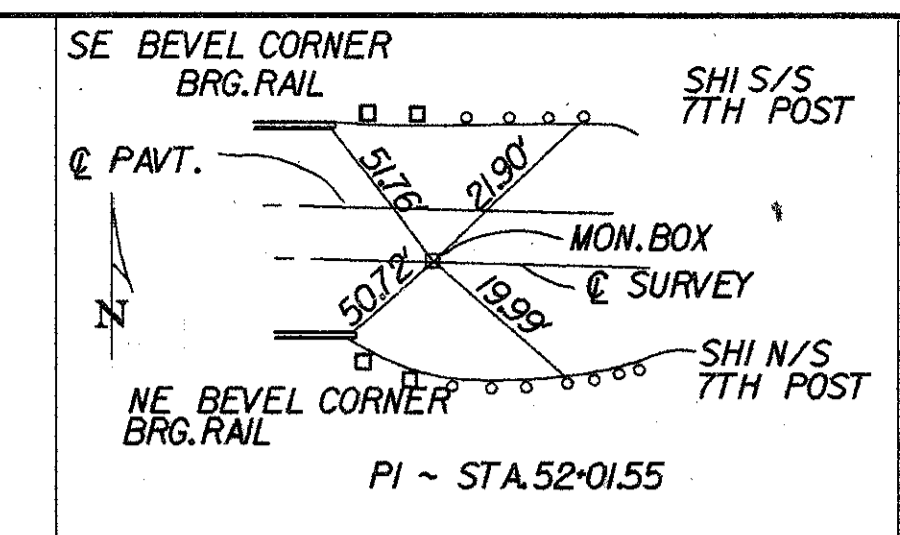
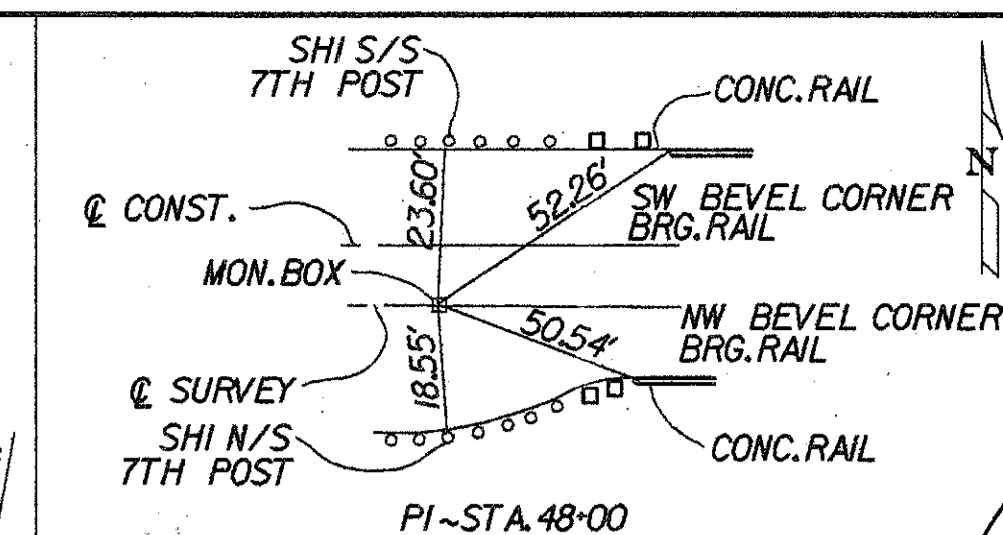
ZFA1:2002101W75GPFSC .DCN1

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 2					DESIGN & PLANNING OFFICE
MISCELLANEOUS DETAILS BRIDGE NO. W00-75-1019 GREENSBURG PIKE					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
JML			GG	LCL 7/14/82	



PAVEMENT LEGEND

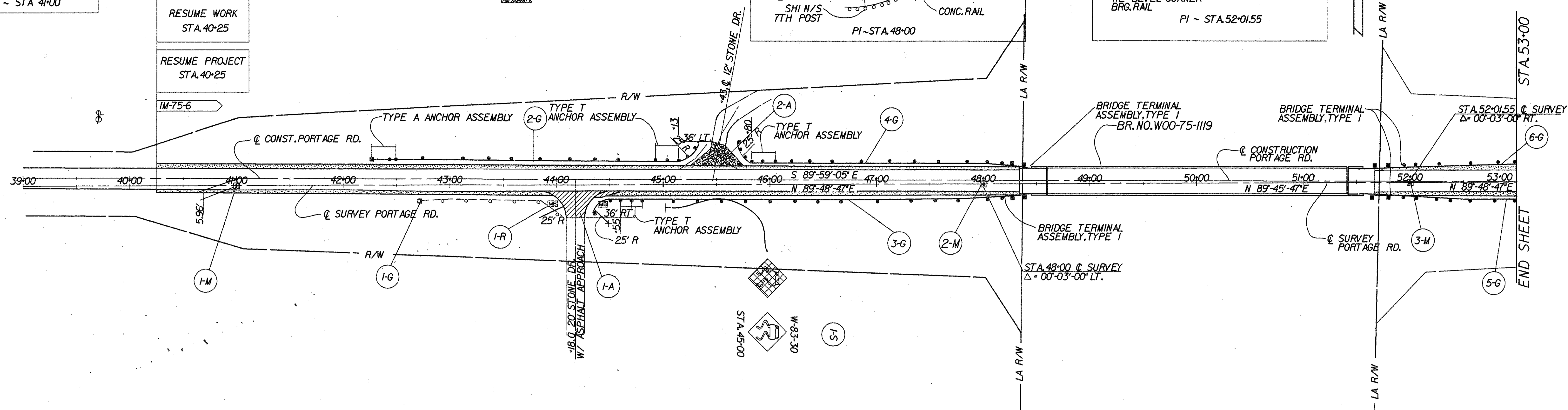
- 4' WIDE BITUMINOUS SURFACE TREATED SHOULDER
- 2' 404 ON 6' 304 DRIVEWAY
- 6' 304



FROM REGION	STATE	PROJECT
5	OHIO	

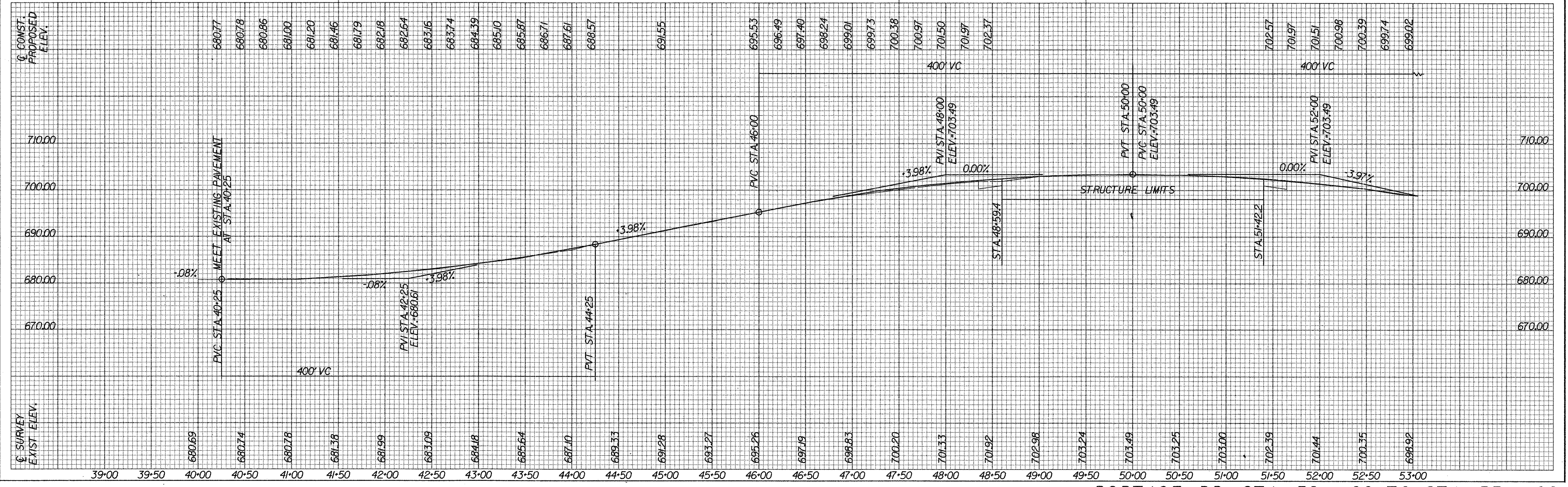
48
116

W00-75-3.01 (VARIOUS)



BM ~ STA 40+71.625' LT. @ SURVEY RR SPIKE IN TEL POLE
ELEV. = 680.40

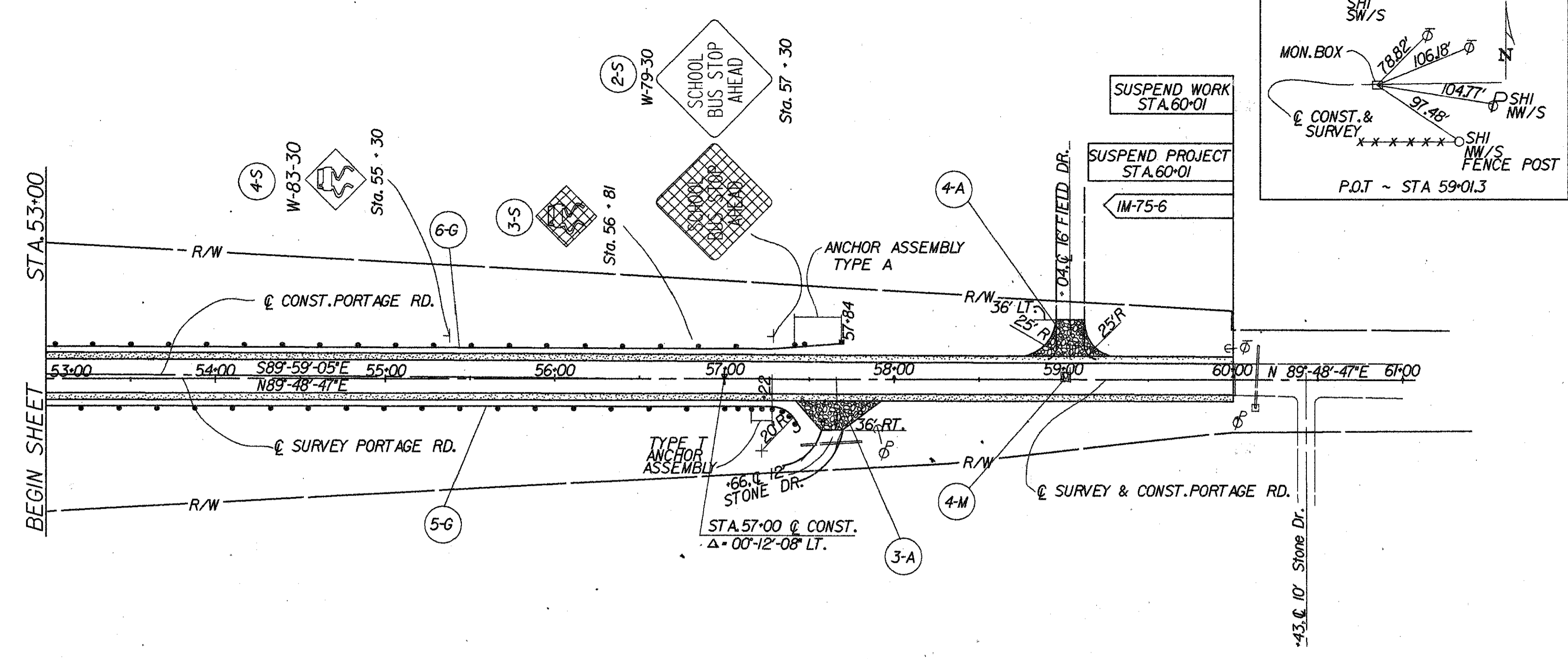
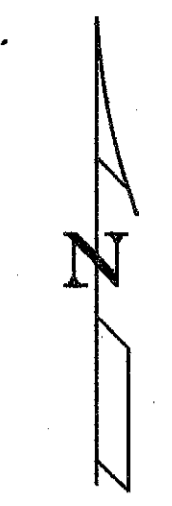
BM ~ STA 48+61.4, 12.3' RT. @ SURVEY CUT "A" IN FACE OF SW WING WALL
ELEV. = 701.05



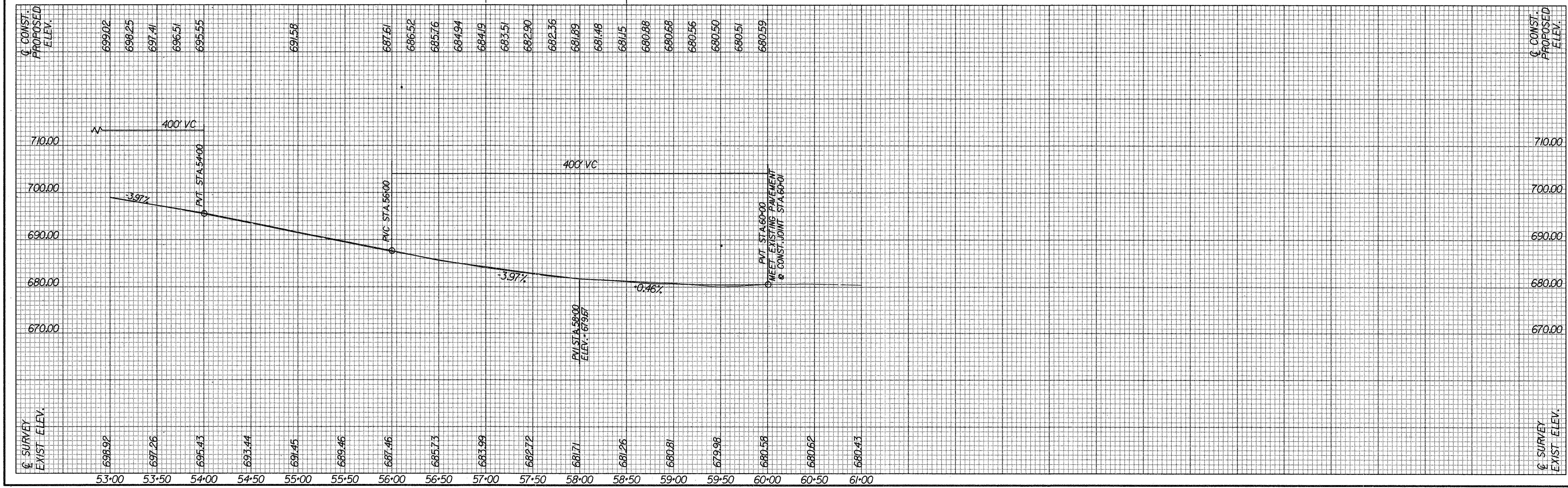
ZFAI:2001001W75PR39P.DGN2

PORTAGE RD. STA. 39 + 00 TO STA. 53 + 00

SEE SHEET NO. 48
FOR LEGEND



BM-STA. 57+94.44.5' RT. @ SURVEY
RR SPIKE IN POWER POLE
ELEV. = 681.12



PORTAGE RD. STA. 53 + 00 TO STA. 61 + 00

QUANTITIES

CALC. BY HTG DATE 5-11-92

CKD. BY L DATE 5-2-92

Revised 9-16-92

SUBSUMMARY

ITEM	EXT.	TOTAL	UNIT	DESCRIPTION
-ROADWAY-				
202	22900	151	SQ. YD.	APPROACH SLAB REMOVED (T = 13")
202	38000	2238	LIN. FT.	GUARDRAIL REMOVED
202	98100	1	EACH	MAILBOX SUPPORT POST REMOVED, AS PER PLAN
203	12000	1988	CU. YD.	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION
203	20000	48	CU. YD.	EMBANKMENT
203	50000	5638	SQ. YD.	SUBGRADE COMPACTION
301	10002	583	CU. YD.	BITUMINOUS AGGREGATE BASE, AC-20
604	39501	4	EACH	MONUMENT BOX ADJUSTED TO GRADE
605	31100	680	LIN. FT.	AGGREGATE DRAIN
606	13000	2200	LIN. FT.	GUARDRAIL, TYPE 5
606	25000	2	EACH	ANCHOR ASSEMBLY, TYPE A
606	26500	4	EACH	ANCHOR ASSEMBLY, TYPE T
606	35000	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1
802	00300	25	EACH	BARRIER REFLECTOR, TYPE A2 (WHITE)
802	00400	6	EACH	BARRIER REFLECTOR, TYPE B2 (WHITE)
SPECIAL	69050200	1	EACH	MAILBOX SUPPORT SYSTEM, DOUBLE
-TRAFFIC CONTROL-				
630	03100	42	LIN. FT.	GROUND MOUNTED SUPPORT, NO. 3 POST
630	80100	19	SQ. YD.	SIGN, FLAT SHEET
630	84900	3	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
630	86002	3	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
-EROSION CONTROL-				
659	10000	3202	SQ. YD.	SEEDING AND MULCHING
659	65000	7	MGAL.	WATER
659	20000	0.29	TON	COMMERCIAL FERTILIZER
-PAVEMENT-				
304	20001	1421	CU. YD.	AGGREGATE BASE, AS PER PLAN
402	20000	195	CU. YD.	ASPHALT CONCRETE, AC-20
404	20000	145	CU. YD.	ASPHALT CONCRETE, AC-20
409	12500	24	CU. YD.	SEAL COAT COVER AGGREGATE NO. 8 FOR SHOULDERS
409	21000	876	GALLON	SEAL COAT BITUMINOUS MATERIAL FOR SHOULDERS
611	25000	162	SQ. YD.	REINFORCED CONCRETE APPROACH SLAB (T=15")
408	10000	50	GALLON	BITUMINOUS PRIME COAT (.04 gal/sqyd)

EARTH WORK AND SEEDING TABLE

Station	From	To	203	203	659
			Excavation Not Including Embankment	Embankment	Seeding And Mulching
			Cu. Yd.	Cu. Yd.	Sq. Yd.
40+00	42+00		196	2	339
42+00	44+18		252	12	450
44+18	46+00		229	6	282
46+00	47+50		168	11	300
47+50	51+42.2		125	4	189
51+42.2	52+50		140	0	237
52+50	55+00		305	2	501
55+00	57+66		294	0	487
57+66	59+04		176	7	246
59+04	61+00		103	4	171
Total to Subsummary			1988	48	3202

AGGREGATE DRAIN TABLE

Station	From	To	Side	Item	Description	Total
40+50	48+50	LT.	605	Aggregate Drain	17 @ 10' Avg. = 170 Lin. Ft.	
51+75	59+75	RT.	605	Aggregate Drain	17 @ 10' Avg. = 170 Lin. Ft.	
52+00	60+00	LT.	605	Aggregate Drain	17 @ 10' Avg. = 170 Lin. Ft.	
Totals to Subsummary						680 Lin. Ft.

MONUMENT TABLE

Ref.	Station	Side	604 Monument Box Adjusted to Grade
1	41+00	Survey	1
2	48+00	Survey	1
3	52+01.55	Survey	1
4	59+01.30	Survey	1
Totals to Subsummary			4

DRIVEWAY TABLE

Ref.	Station	Side	202	304	404	408	609
			Mailbox Support Post Removed	Aggregate Base As Per Plan	Asphalt Concrete	Bitum. Prime Coat (0.4 gal/sqyd)	Mailbox Support System, Double
			Each	Cu. Yd.	Cu. Yd.	Gallon	Each
1-A	44+18	RT.	1	14.2	5.7	40.8	1
2-A	45+43	LT.		15.1			
3-A	57+66	RT.		12.1			
4-A	59+04	LT.		8.7			
Carried to Subsummary			1	50.1	5.7	40.8	1

GUARDRAIL TABLE "G"

Ref.	Station		Side	202	606	606	606	606	802	
	From	To		Guardrail Removed	Guardrail Type 5	Anchor Assem. Type A	Anchor Assem. Type T	Bridge Term. Assem. Type 1	Barrier Reflect. Type A2 (White)	
				Lin. Ft.	Lin. Ft.	Radius	Each	Each	Each	
1-G	42+71	44+05	RT.	137.5						
2-G	42+25	45+35	LT.	225	262.5	37.5	1	1	3	
3-G	44+32	48+49	RT.	425	393.75	25	1	1	5	
4-G	45+80	48+49	LT.	300	256.25	25	1	1	3	
5-G	51+53	57+54	RT.	575	568.75	25	1	1	6	
6-G	51+53	57+84	LT.	575	606.25		1	1	8	
Totals to Subsummary				2237.5	2200		2	4	25	6

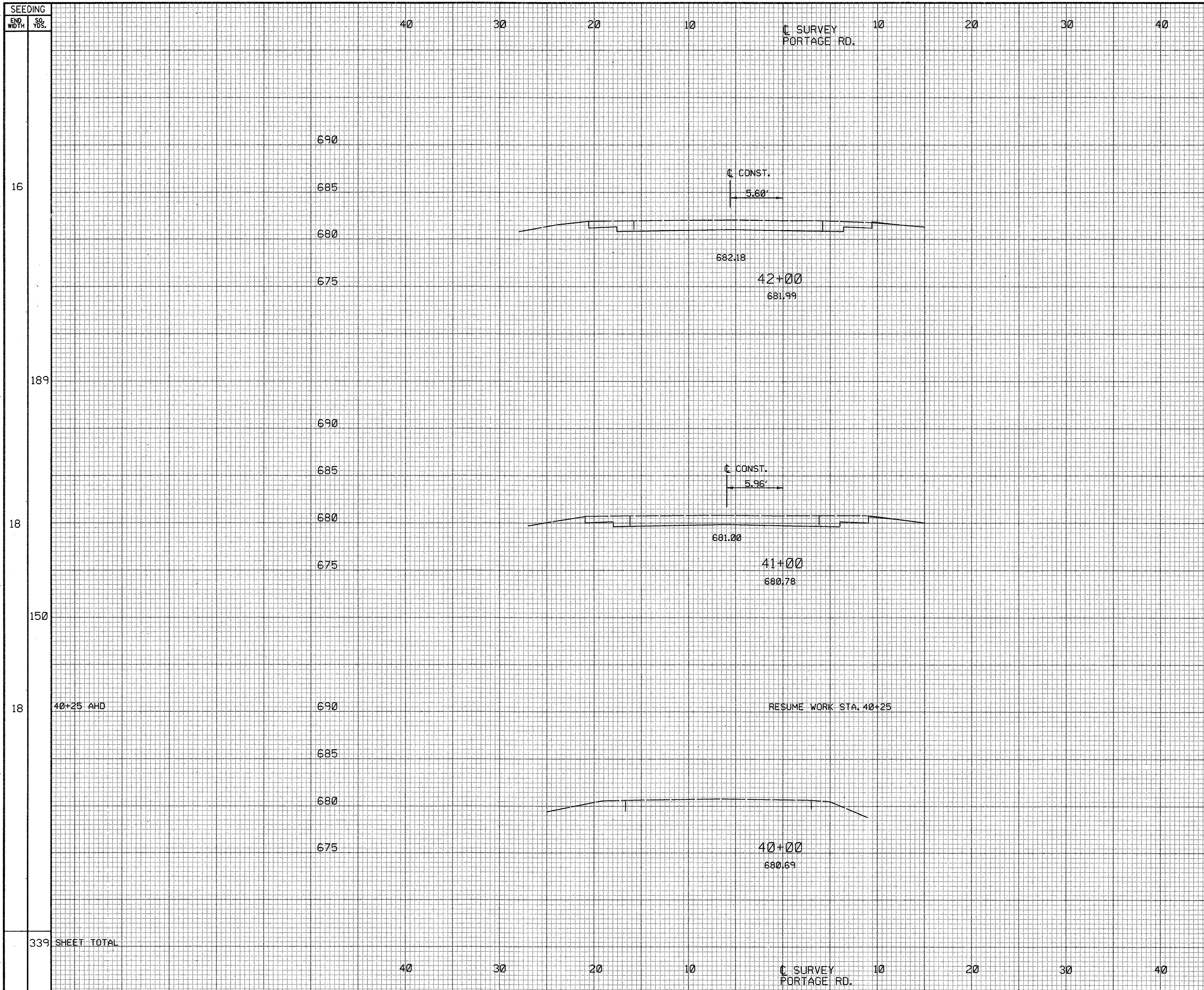
SIGN TABLE

Ref.	Station	Side	Sign Code Number	Sign in Inches	630			
					Flat Sheet Sign	No. 3 Post	Removal of Sign And Disposal	Removal of Ground Mounted Support And Disposal
					Sq. Ft.	Lin. Ft.	Each	Each
1-S	45+00	RT.	W-83-30	30x30	6.25	14	1	1
2-S	57+30	LT.	W-79-30	30x30	6.25	14	1	1
3-S	57+81	LT.	W-83-30	30x30	6.25	14	1	1
4-S	55+30	LT.	W-83-30	30x30	6.25	14	1	1
Totals to Subsummary					18.75	42	3	3

W75PGSS.DWG(MGE):1

Rev. 9/16/92

8105A



SEEDING		QUANTITIES		FINN	STATE	PROJECT
END WIDTH	SO. YDS.	CALC BY	DATE	REGION		
		MTG	5/11/82	5	OHIO	
		CKD BY	DATE			
		L	5/1/82			

51
116

W00-75-3.01 (VARIOUS)

END	AREA		VOLUME	
	CUT	FILL	CUT	FILL
690				
685				
680	31	1		
675				
189			113	2
690				
685				
680	30	0		
675				
150			83	0
690	40+25 AHD		40+25 AHD	30
685				
680				
675				
339	SHEET TOTAL		SHEET TOTALS	
			196	2

ZFAH200.210JW75PGX1.DGN

C SURVEY
PORTAGE RD.

C SURVEY
PORTAGE RD.

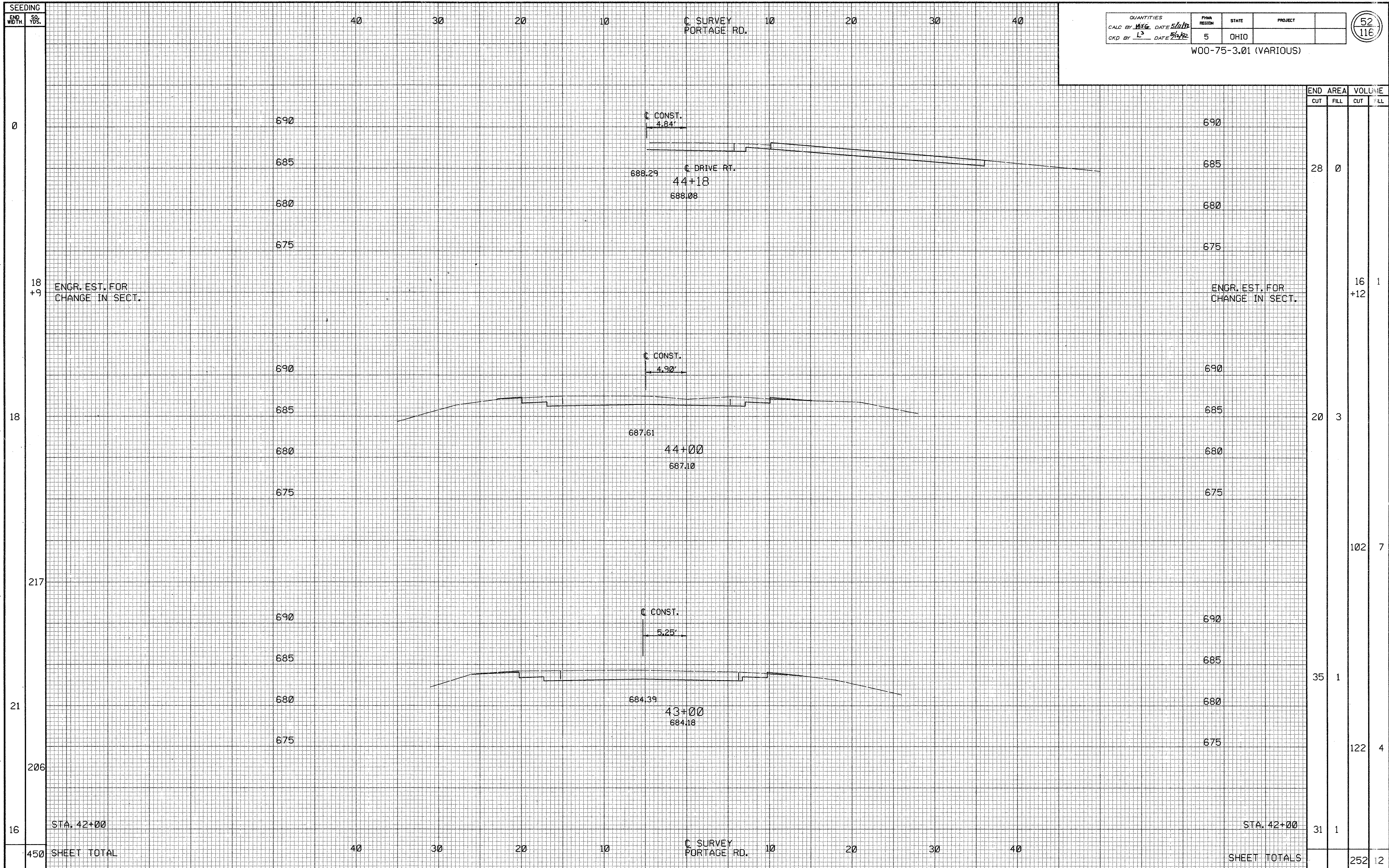
X-SECTIONS STA. 40+00 TO STA. 42+00 PORTAGE RD.

SEEDING
END WIDTH SQ. YDS.

QUANTITIES		PDMA REGION	STATE	PROJECT
CALC BY <u>WIG</u>	DATE <u>5/1/92</u>	5	OHIO	
CKD BY <u>L</u>	DATE <u>2/2/92</u>			

52
116

W00-75-3.01 (VARIOUS)



ZFAI1200,210JW75PCX2.DGN

X-SECTIONS STA. 42+00 TO STA. 44+18.00 PORTAGE RD

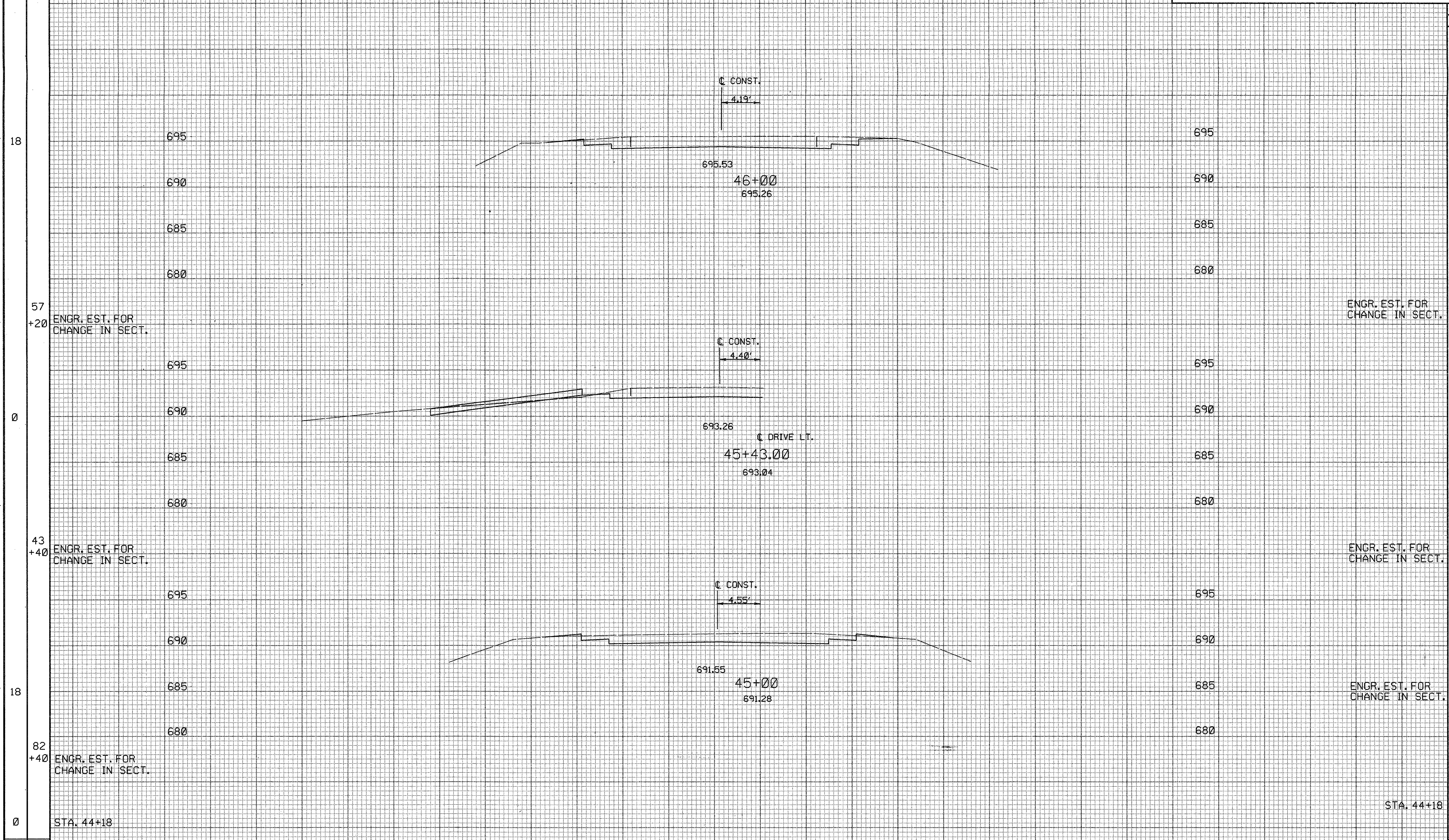
SEEDING
END WIDTH SO. YDS.

50 40 30 20 10 0 SURVEY PORTAGE RD. 10 20 30 40

QUANTITIES		FYNA REGION	STATE	PROJECT
CALC BY	DATE	5	OHIO	
CKD BY	DATE			

53
116

W00-75-3.01 (VARIOUS)



END	AREA		VOLUME	
	CUT	FILL	CUT	FILL
18				
57	31	1		
+20				
0				
43	24	0		
+40				
18				
82				
+40				
0				
282				
SHEET TOTAL				
SHEET TOTALS				

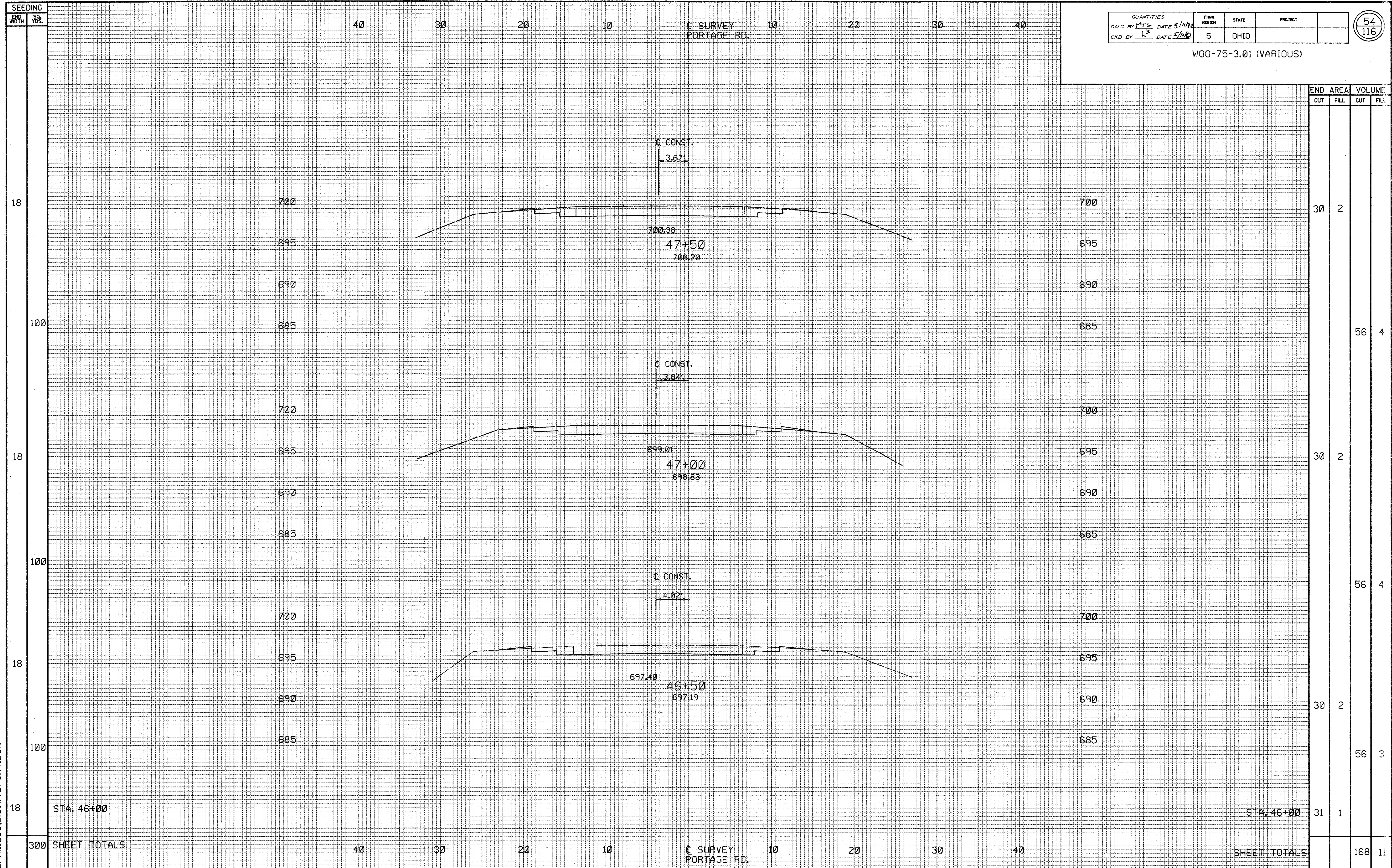
ZFAI\200,210\JW75PCX3.DGN

SEEDING
END WIDTH SO. YDS.

QUANTITIES		FINA REGION	STATE	PROJECT
CALC BY	DATE	5	OHIO	
CKD BY	DATE			

54
116

W00-75-3.01 (VARIOUS)



ZFAI:200,210JW75PCX4.DGN

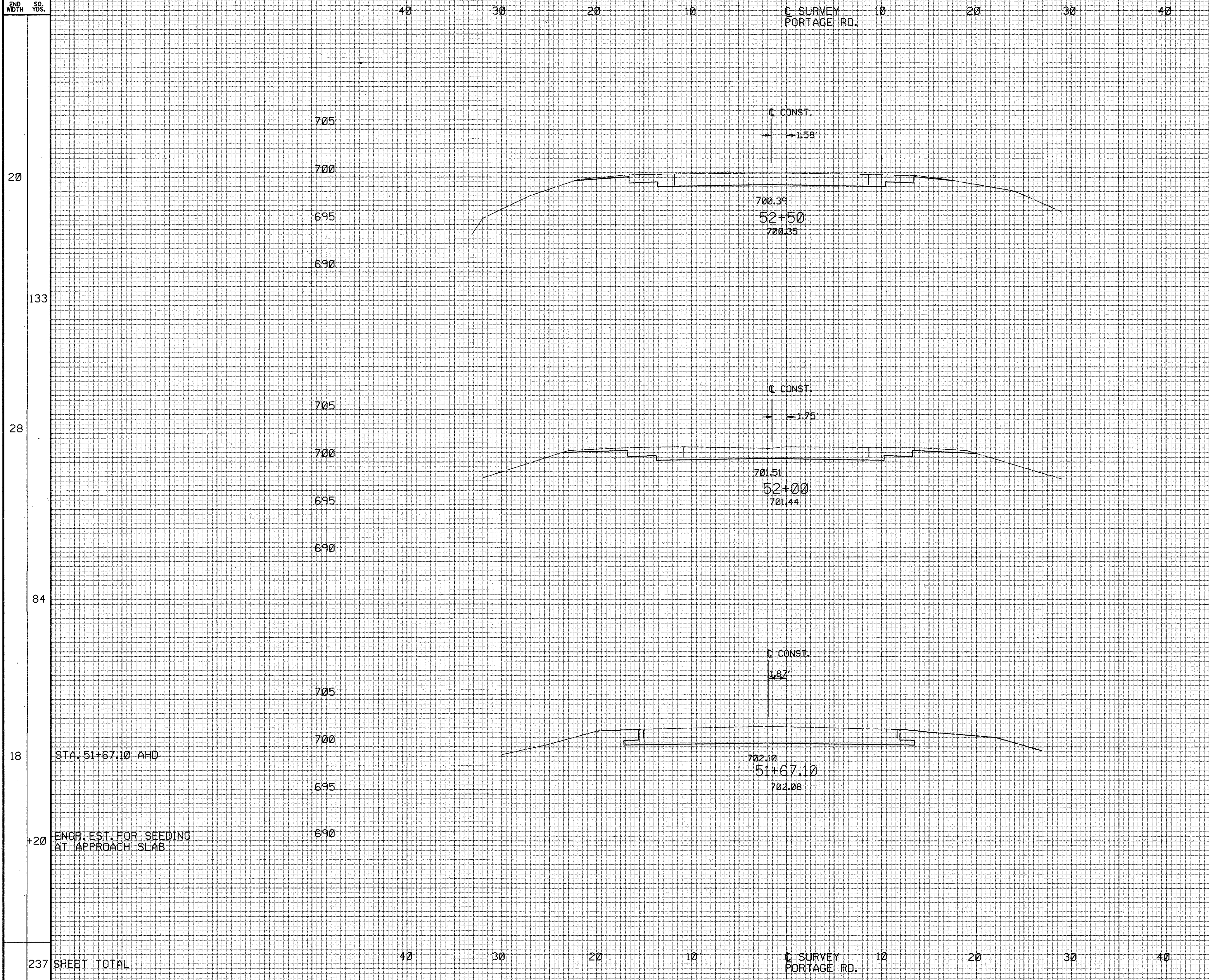
X-SECTIONS STA. 46+00 TO STA. 47+50.00 PORTAGE RD.

SEEDING
END WIDTH SQ. YDS.

QUANTITIES		FINA REGION	STATE	PROJECT
CALC BY	DATE	5	OHIO	
CKD BY	DATE			

56
116

W00-75-3.01 (VARIOUS)



END CUT	AREA FILL	VOLUME	
		CUT	FILL
38	0		
		72	0
39	0		
		48	0
39	0		
		+20	
237	SHEET TOTAL	140	0

STA. 51+67.10 AHD

STA. 51+67.10 AHD

ENGR. EST. FOR SEEDING AT APPROACH SLAB

ENGR. EST. FOR EXCAVATION UNDER APPROACH SLAB

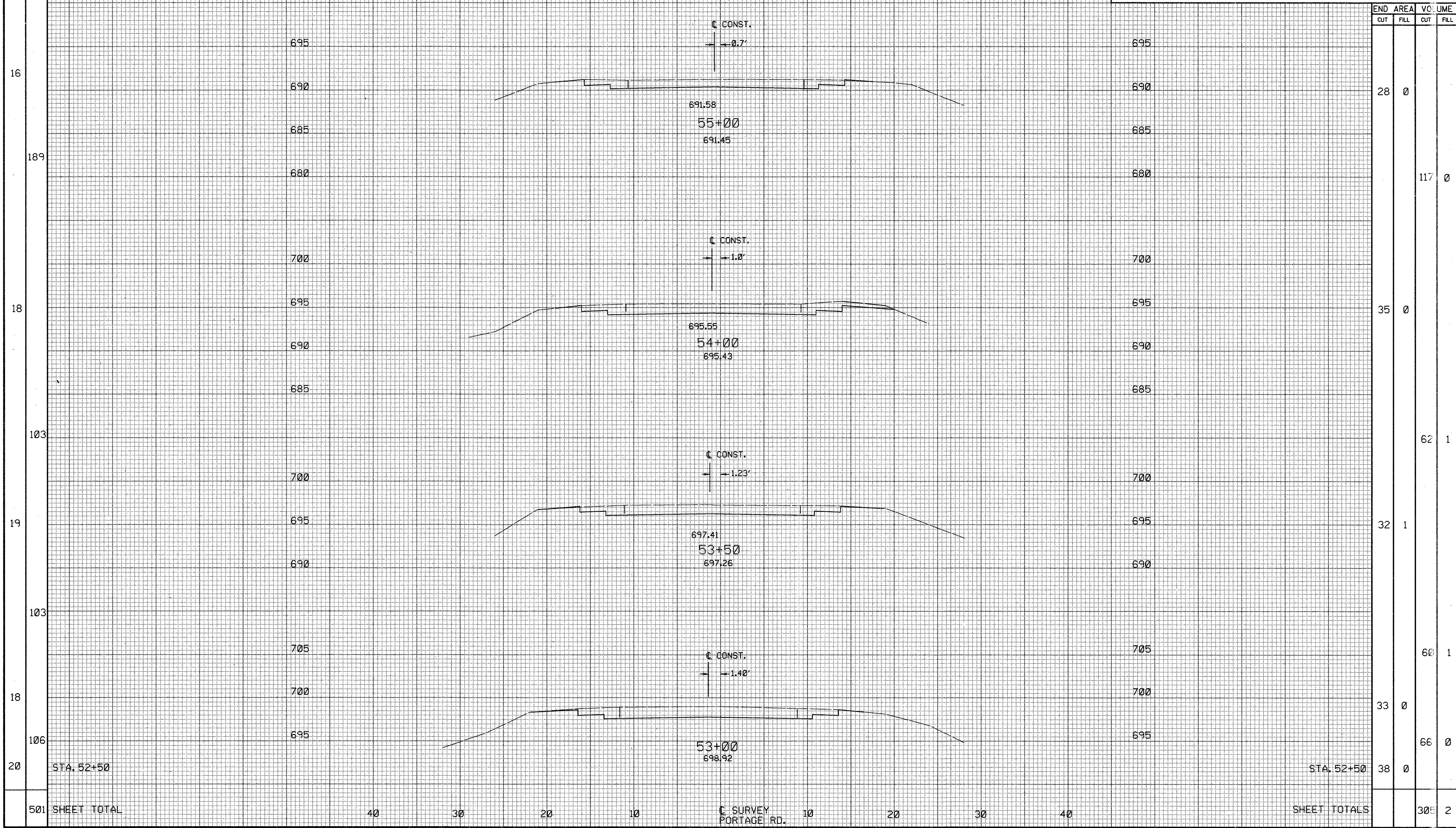
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SEEDING
END WIDTH SQ. YDS.

QUANTITIES		FINA REGION	STATE	PROJECT
CALC BY: HIG	DATE: 5/11/92	5	OHIO	
CKD BY: L ³	DATE: 3/2/92			

7
116

W00-75-3.01 (VARIOUS)



END	AREA		VOLUME	
	CUT	FILL	CUT	FILL
28	0			
117	0			
62	1			
60	1			
33	0			
66	0			
38	0			
SHEET TOTALS	30	5	2	

ZFAI:200;2101W75PGX7.DGN

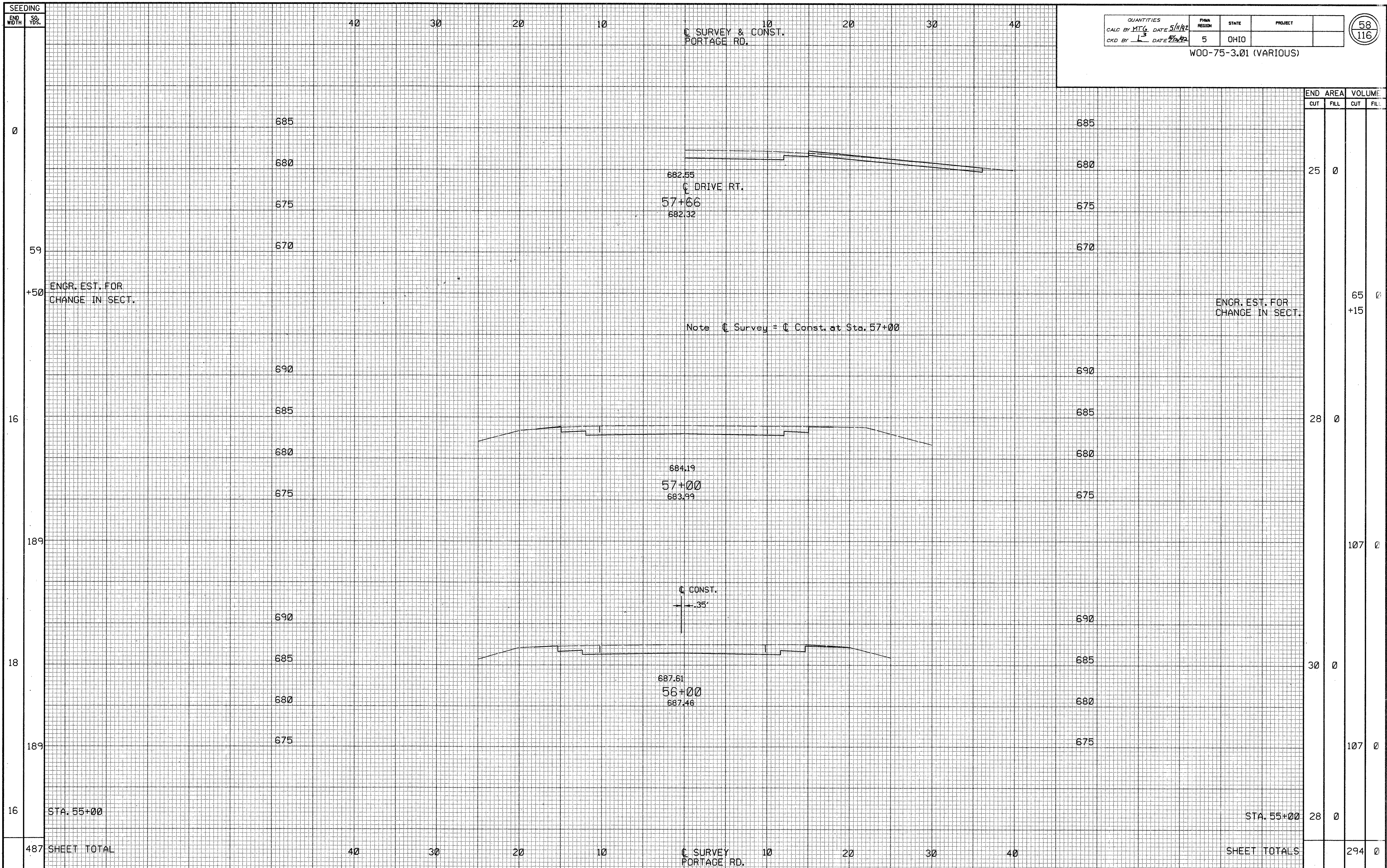
X-SECTIONS STA. 52+50 TO STA. 55+00 PORTAGE RD.

SEEDING
END WIDTH SQ. YDS.

QUANTITIES		PRIN. REGION	STATE	PROJECT
CALC BY: MTC	DATE: 5/11/92	5	OHIO	
CHKD BY: L	DATE: 2/2/92			

58
116

W00-75-3.01 (VARIOUS)

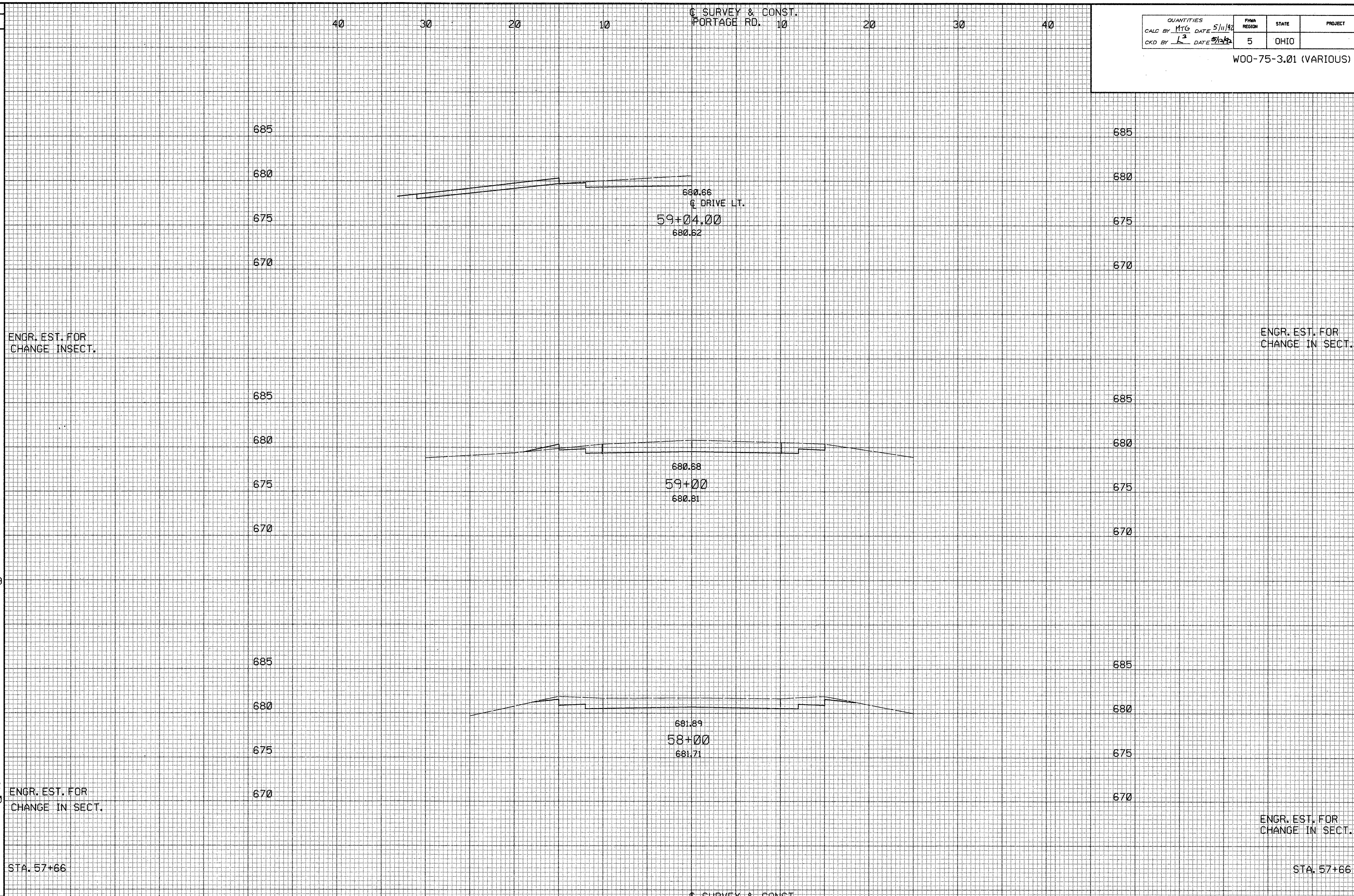


ZFAI:200,210JW75PCX8.DGN

X-SECTIONS STA. 55+00 TO STA. 57+66.00 PORTAGE RD.

SEEDING
END WIDTH SO. YDS.

0
4
+1
17
189
17
32
+20
0
246



SURVEY & CONST.
PORTAGE RD. 10

SURVEY & CONST.
PORTAGE RD. 10

QUANTITIES		FINA REGION	STATE	PROJECT
CALC BY MTC	DATE 5/11/92	5	OHIO	
CKD BY L	DATE 5/13/92			

59
116

W00-75-3.01 (VARIOUS)

END	AREA		VOLUME	
	CUT	FILL	CUT	FILL
19	0			
4				4
+1				+1
31	3			
119				6
33	0			
37				0
+15				+15
25	0			
SHEET TOTALS			176	7

ZFAI200,2101W75PCX9.DGN

SEEDING
END WIDTH SO. YDS.

SURVEY & CONST.
PORTAGE RD. 10

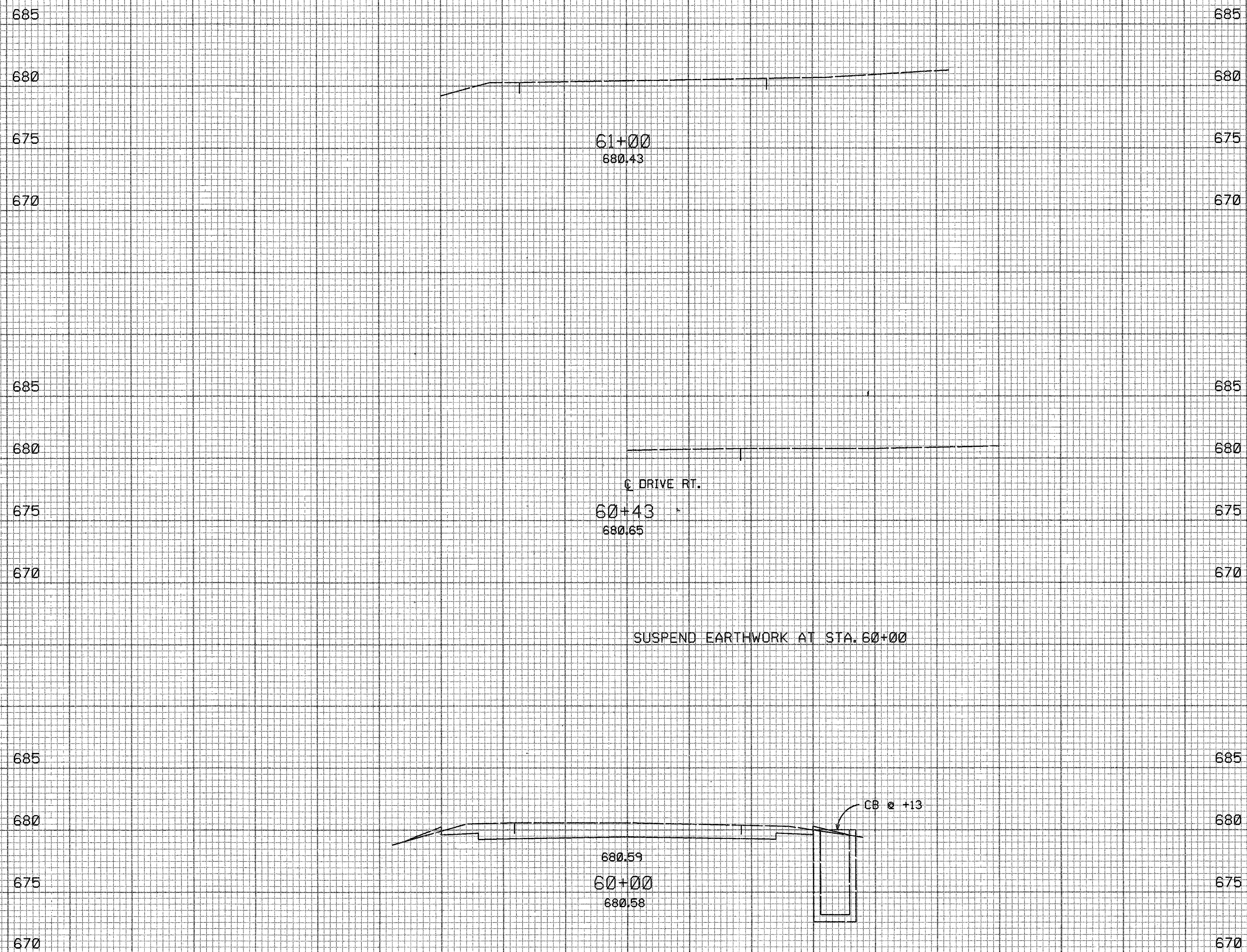
QUANTITIES		FHWA REGION	STATE	PROJECT
CALC BY: MTG	DATE: 5/11/92	5	OHIO	
CKD BY: L ³	DATE: 5/12/92			

60
115

W00-75-3.01 (VARIOUS)

40 30 20 10 10 20 30 40

END AREA VOLUME
CUT FILL CUT FILL



18

STA. 60+00 BK

STA. 60+00 BK 25 2

96
+75

ENGR. EST. FOR
CHANGE IN SECT.

ENGR. EST. FOR
CHANGE IN SECT. 78 4
+25

0

STA. 59+04

STA. 59+04 19 0

SURVEY & CONST.
PORTAGE RD. 10

40 30 20 10 10 20 30 40

171 SHEET TOTAL

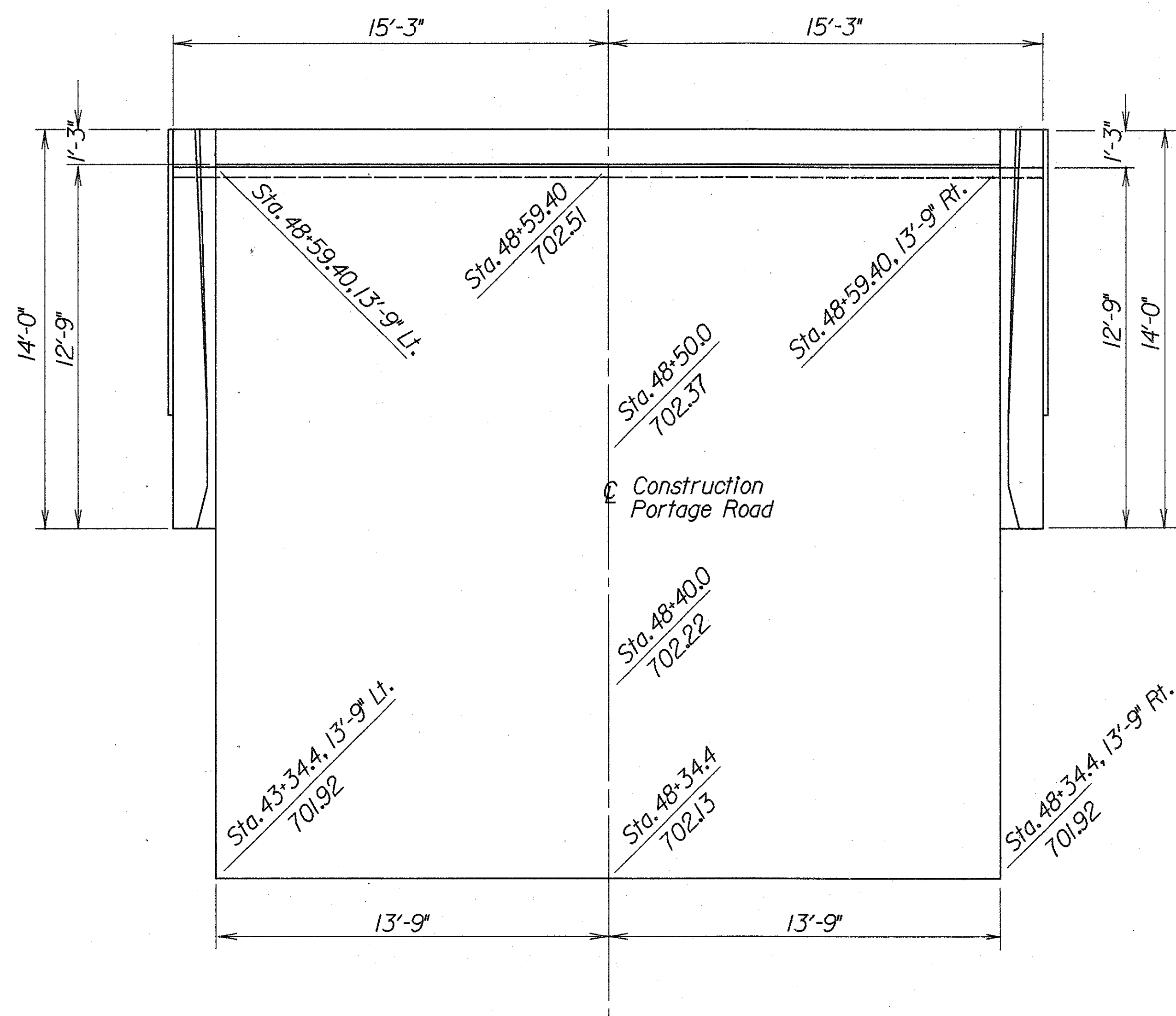
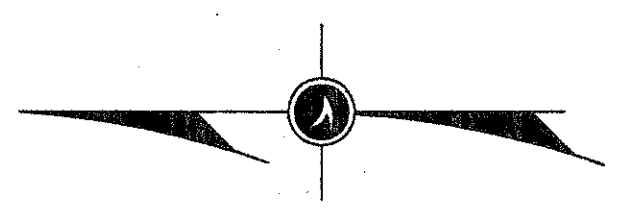
SHEET TOTALS 103 4

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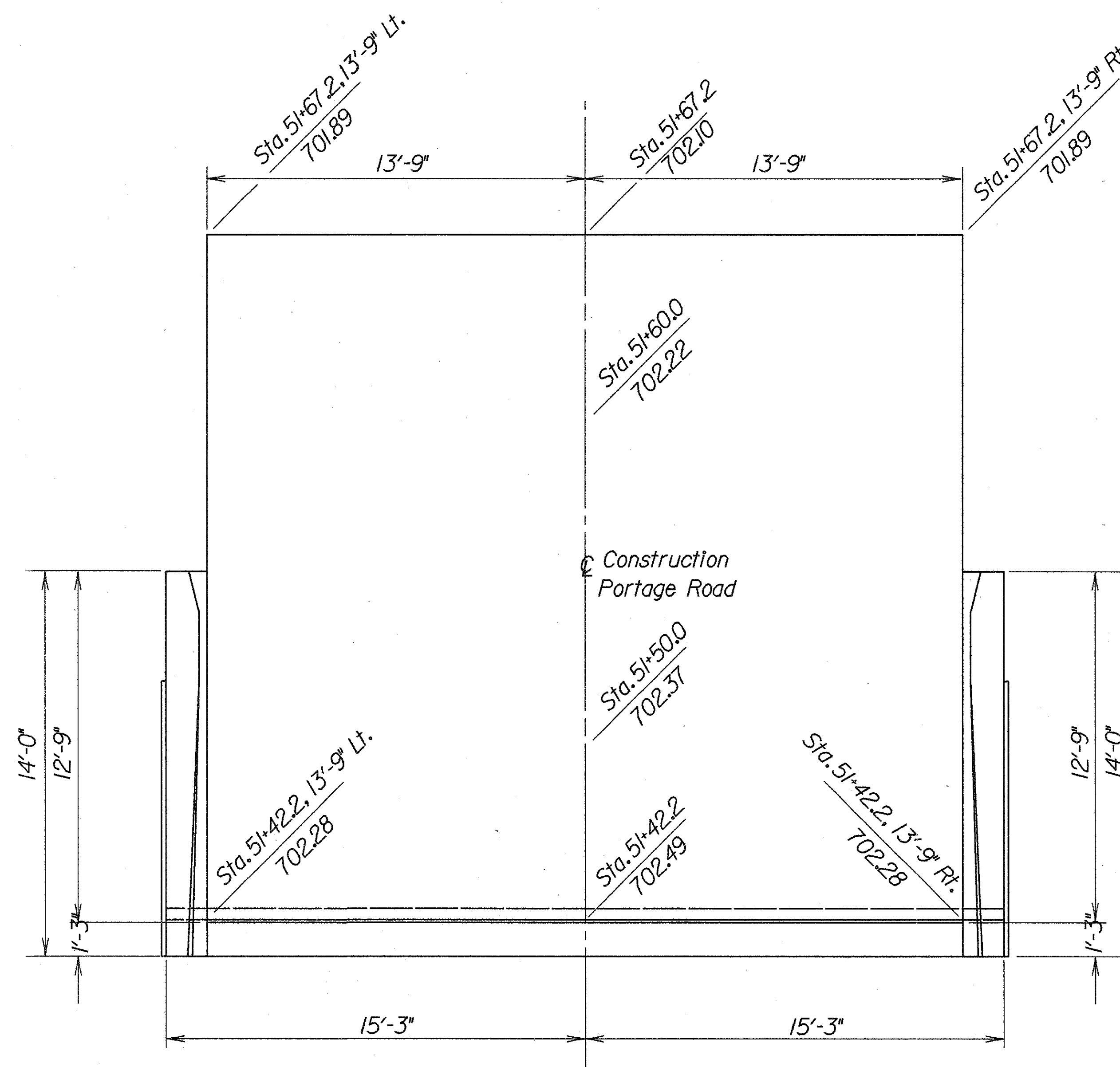
PRWA REGION	STATE	PROJECT
5	OHIO	

61
116

W00-75-3.0(VARIOUS)



REAR APPROACH SLAB



FORWARD APPROACH SLAB

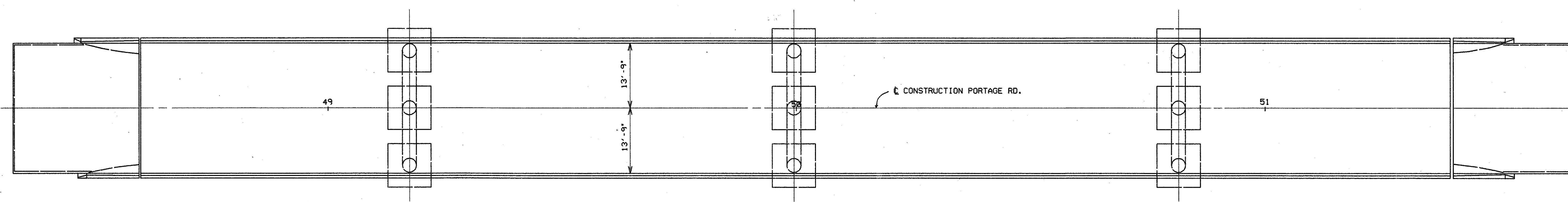
Z:\A\2002\03\W\56\AS.DWG

FHWA REGION	STATE	PROJECT
5	OHIO	

62
116

W00-75-3.01 (VARIOUS)

1
8



PLAN

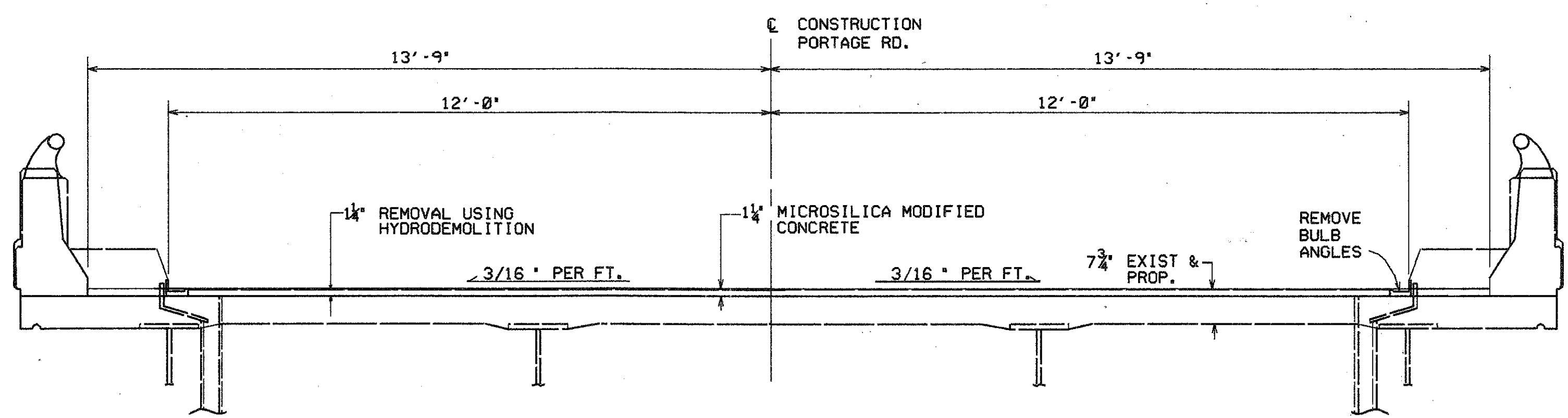
- PROPOSED WORK**
- 1) REMOVE 1 1/4" OF EXISTING DECK USING HYDRODEMOLITION
 - 2) REMOVE EXISTING PARAPETS AND STRUCTURAL EXPANSION JOINTS
 - 3) BUILD BRIDGE PARAPETS
 - 4) REPLACE STRUCTURAL EXPANSION JOINTS WITH STRIP SEALS
 - 5) OVERLAY DECK WITH 1 1/4" MICROSILICA
 - 6) SEAL ABUTMENTS, PARAPETS AND WINGWALLS WITH EPOXY

EXISTING STRUCTURE DATA

TYPE: CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK
 REINFORCED CONCRETE PIER BENTS & STUB ABUTMENTS
 SPANS: 57'-0", 82'-0", 82'-0", 57'-0" C/C BRGS
 ROADWAY: 24'-0" F/F CURBS
 LOADING: H-15
 SKEW: NONE
 WEARING SURFACE: 1" MONOLITHIC CONCRETE
 APPROACH SLABS: AS-1-54 (25' LONG) SPECIAL
 ALIGNMENT: TANGENT

PROPOSED STRUCTURE DATA

ROADWAY: 27'-6" FACE TO FACE OF PARAPETS
 WEARING SURFACE: 1 1/4" MICROSILICA



TRANSVERSE SECTION

ZFA1: [200, 210] W75PSP.DGN

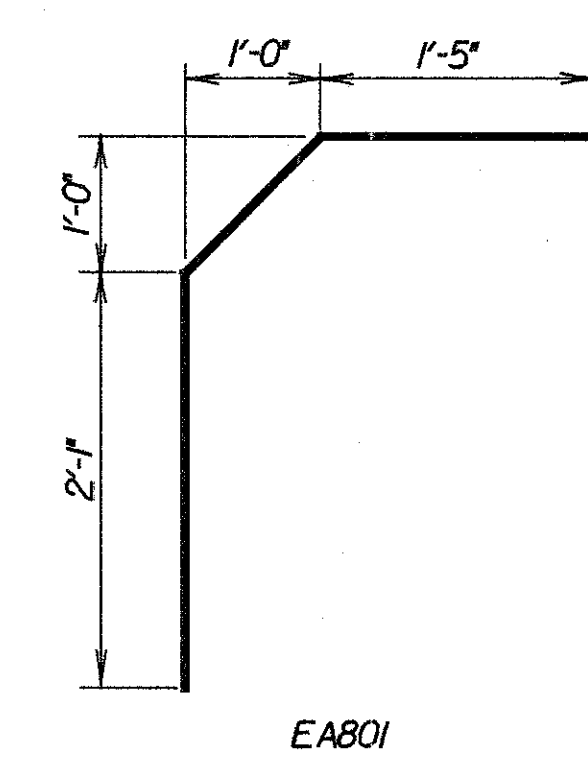
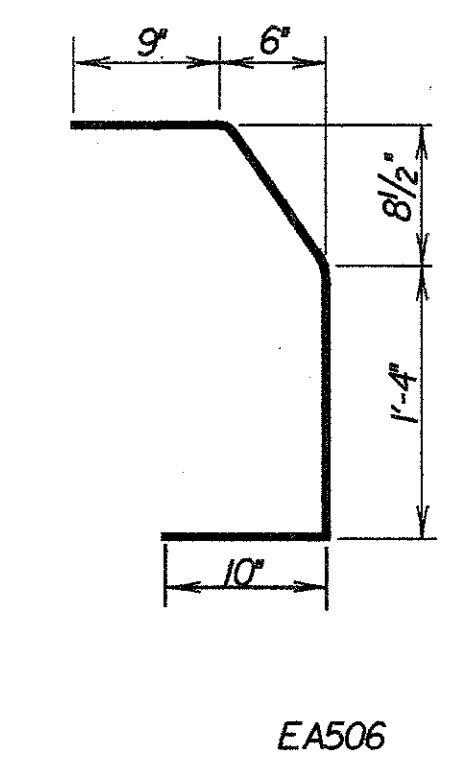
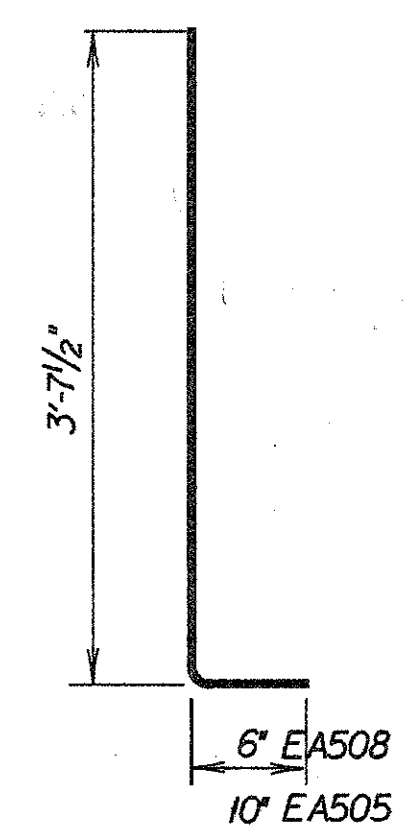
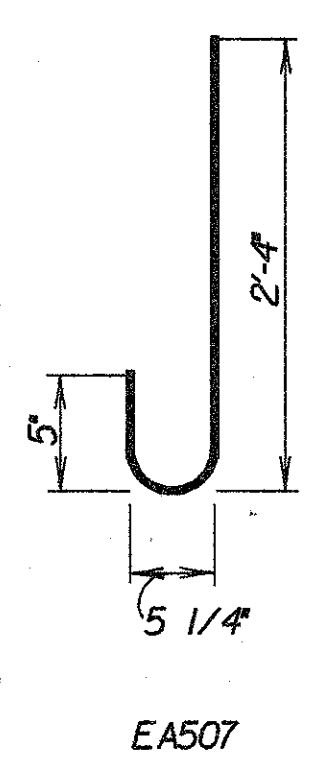
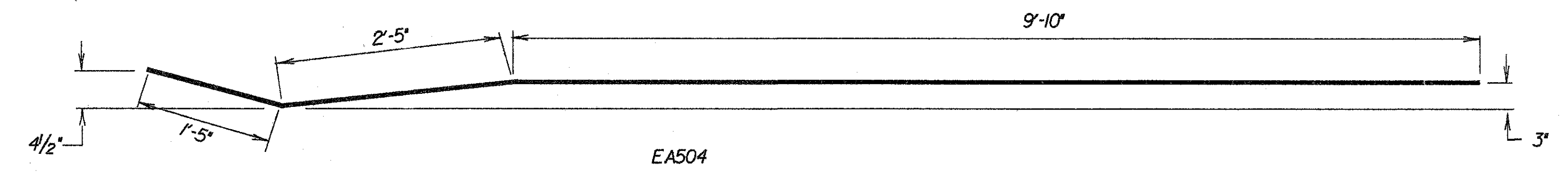
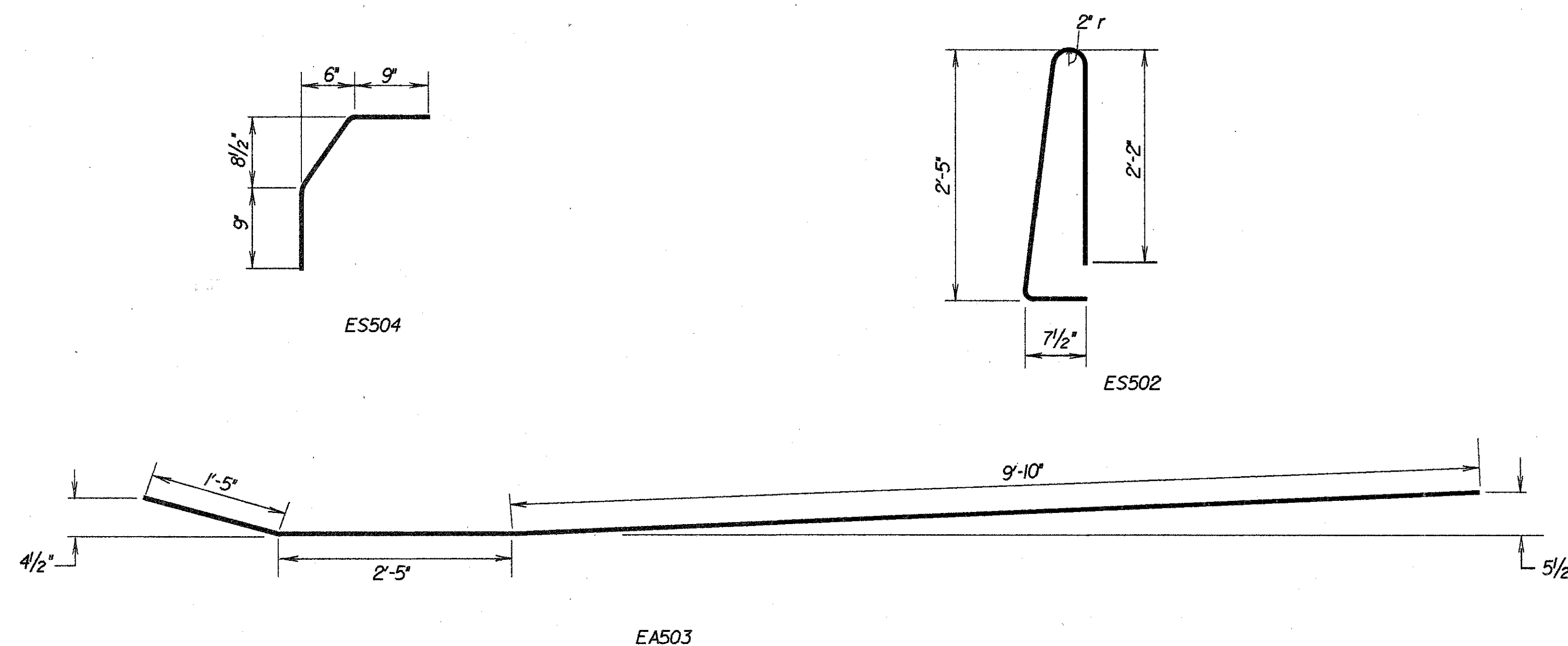
STATE OF OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 2 DESIGN & PLANNING OFFICE						1 / 8
GENERAL PLAN AND TRANSVERSE SECTION BRIDGE NO. W00-75-1118 PORTAGE ROAD						
DESIGNED MTG	DRAWN	TRACED	CHECKED GG	REVIEWED DATE LLC 7/14/02	REVISION	

REINFORCING STEEL LIST

BENDING DIAGRAMS

MARK	NO. IN STRUCTURE			LENGTH	WEIGHT (LBS.)	SHAPE	LAP LENGTH	DOWEL HOLES (LIN. FT.)
	LT.	RT.	TOTAL					
Superstructure								
ES501	40	40	80	29'-6"	2461	S	1'-8"	
ES502	209	209	418	5'-3"	2289	B		
ES503	209	209	418	1'-6"	654	S		174
ES504	209	209	418	2'-4"	1017	B		174
ES505	44	44	88	13'-6"	1239	S		
ES506	88	88	176	4'-6"	826	S		
ES507	4	4	8	15'-0"	125	S		
Totals for Superstructure					8611			348

MARK	NO. IN ABUTMENT			LENGTH	WEIGHT (LBS.)	SHAPE	LAP LENGTH	DOWEL HOLES (LIN. FT.)
	LT.	RT.	TOTAL					
Abutments								
EA501	8		8	30'-0"	250	S		
EA502	10	10	20	13'-8"	285	S		
EA503	4	4	8	13'-8"	114	B		
EA504	2	2	4	13'-8"	57	B		
EA505	22	22	44	4'-4"	199	B		
EA506	14	14	28	3'-8"	107	B		
EA507	14	14	28	2'-11"	85	B		
EA508	4	4	8	4'-0"	33	B		
EA801	21	21	42	4'-11"	551	B		84
Totals for Abutments					1681			84



*E' in prefix designates epoxy coated

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BUREAU OF LOCATION AND DESIGN							2 / 8
REINFORCING STEEL LIST AND DETAILS BRIDGE NO. W00-75-1118 PORTAGE ROAD							
DESIGNED MTG	DRAWN	TRACED	CHECKED GG	REVIEWED LCL	DATE 7/11/82	REVISED	

ZFA1:2002101W75FGSS1.DGN

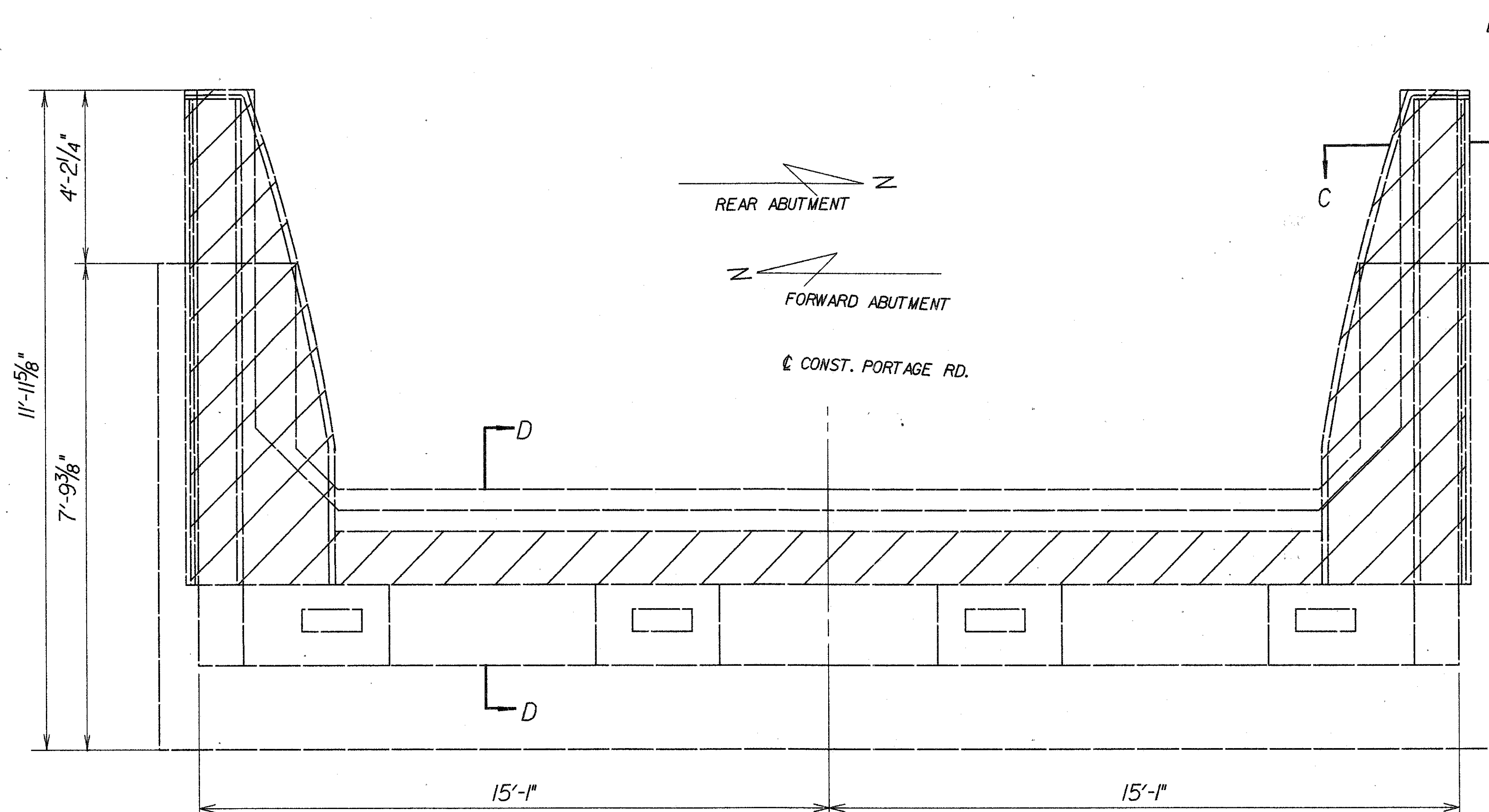
FHWA REGION	STATE	PROJECT
5	OHIO	

64
116

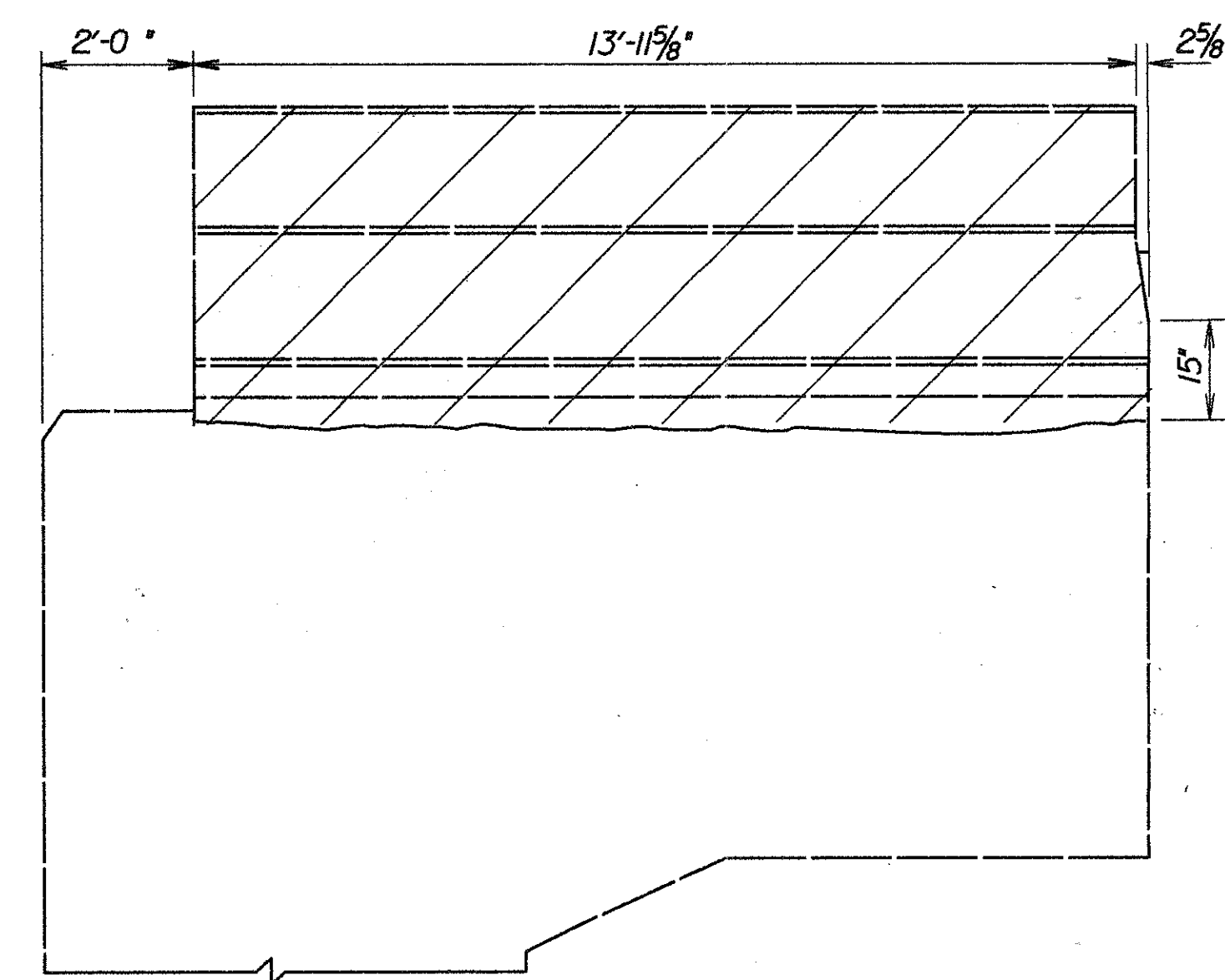
W00-75-3.01(VARIOUS)

3
8

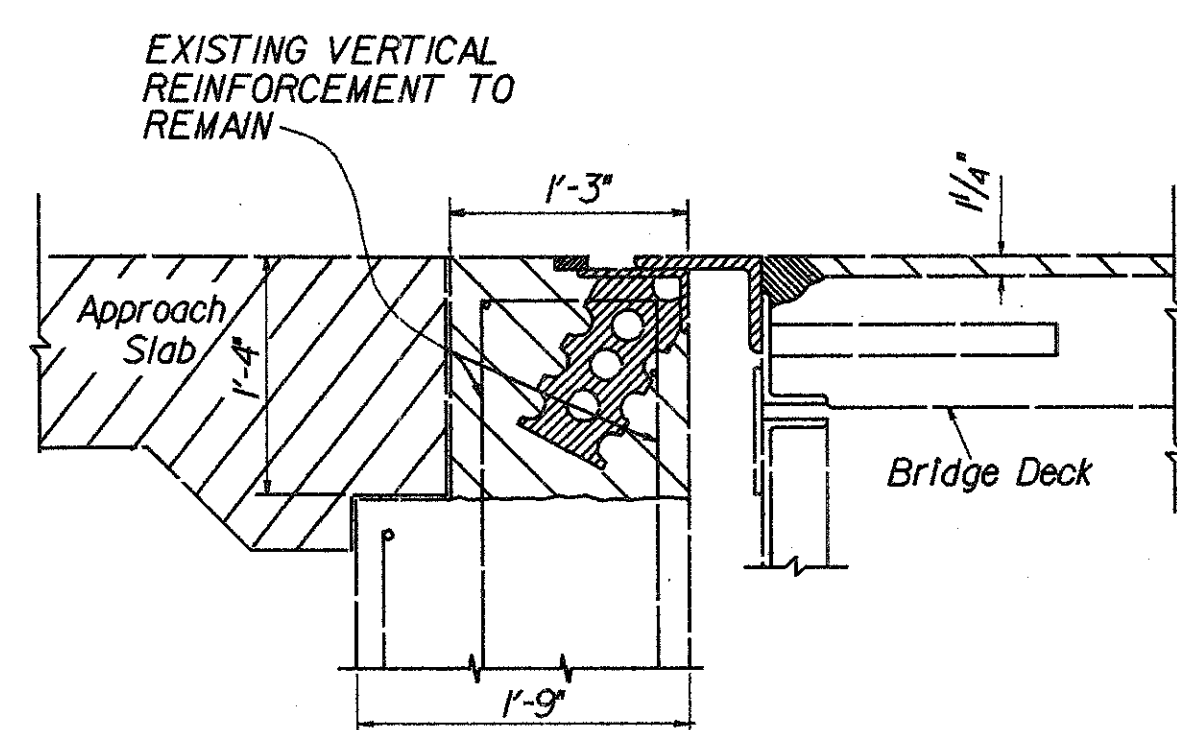
LEGEND



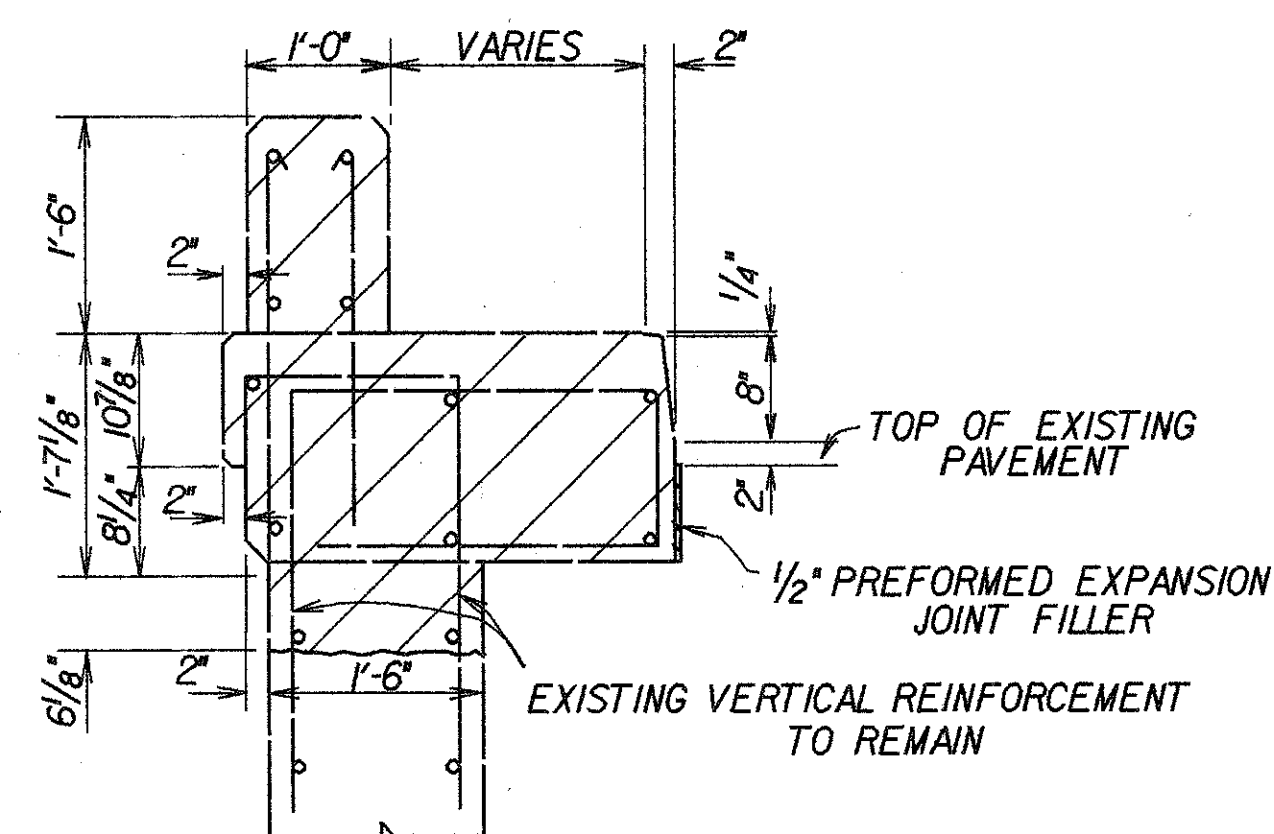
PLAN VIEW



WINGWALL ELEVATION
VIEW B-B



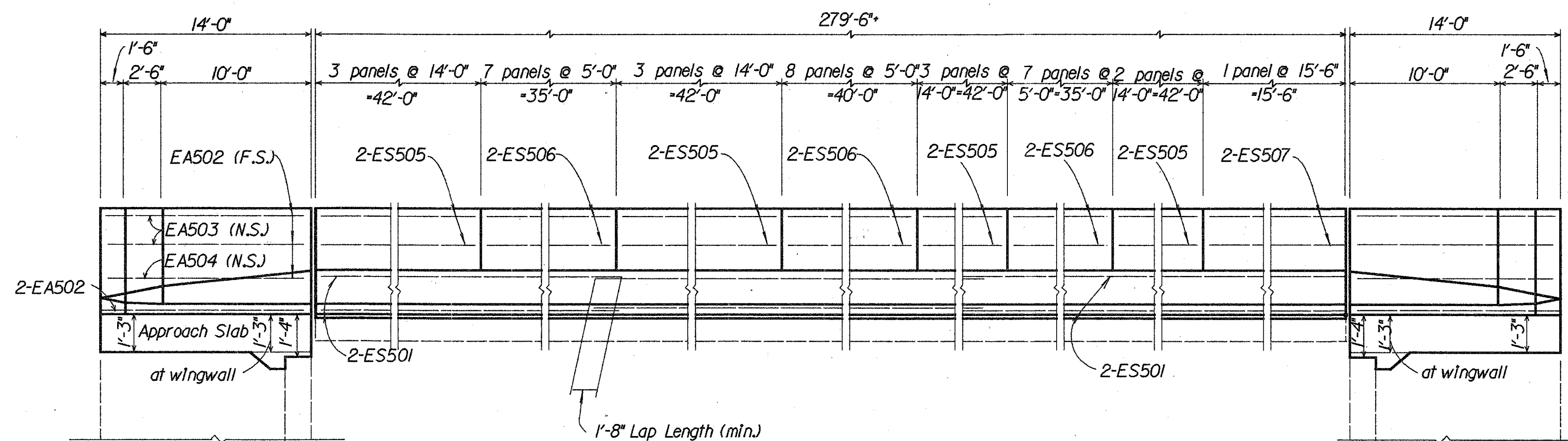
SECTION D-D



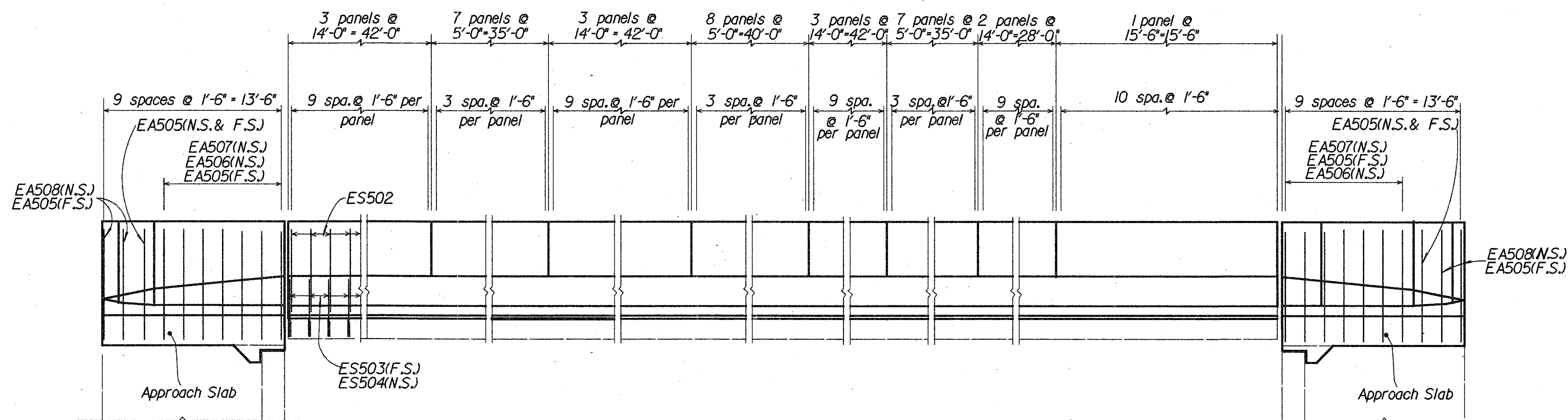
SECTION C-C

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES							3 / 8
EXISTING ABUTMENT AND WINGWALL REMOVAL DETAILS BRIDGE NO. W00-75-1118 PORTAGE ROAD							
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED	
MTG			GG	LL	7/1/82		

ZFA1200.2101M75FGSD1.DGN



Elevation
Horizontal reinforcement in Deflector Parapet

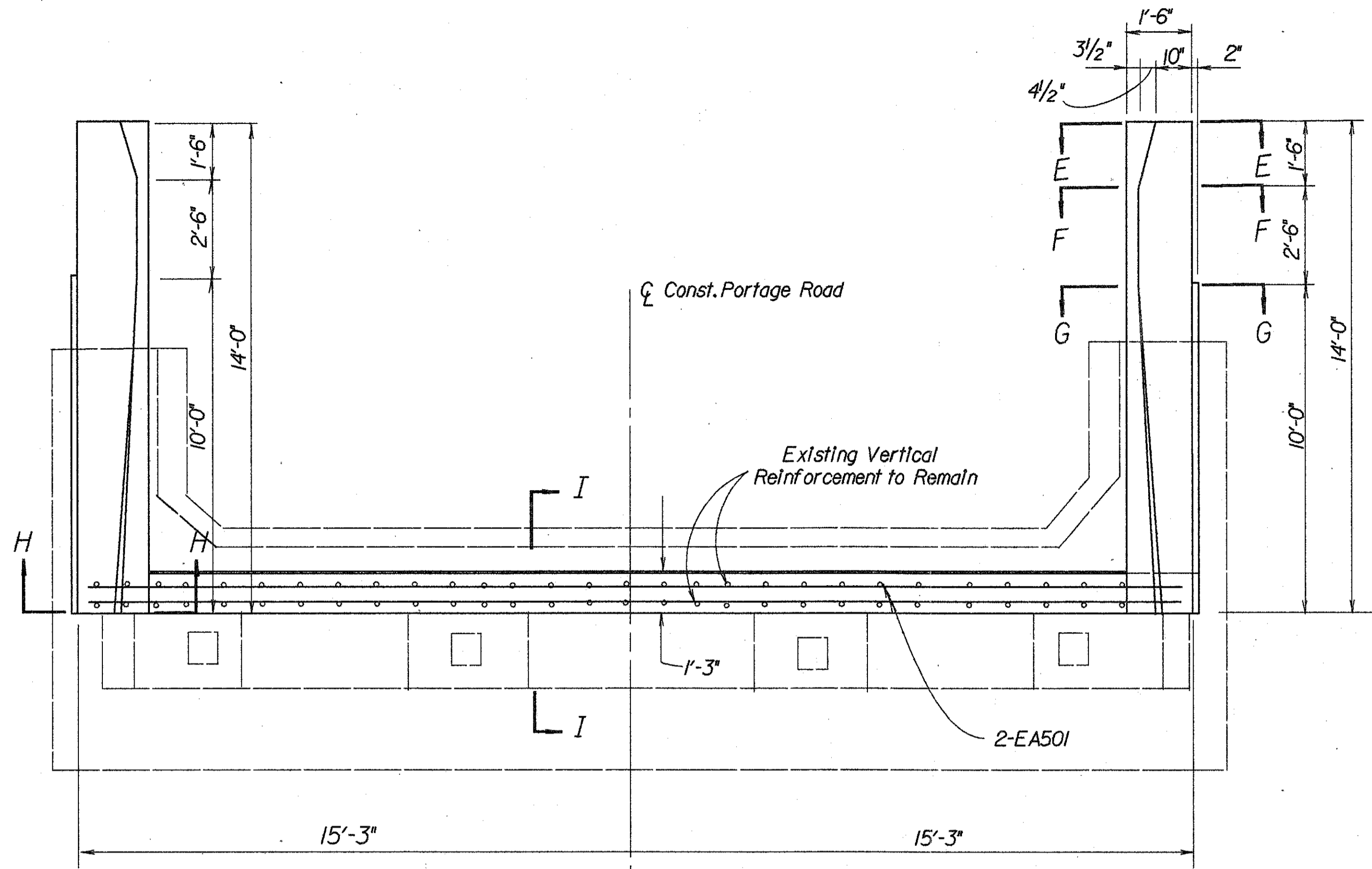


Elevation
Vertical reinforcement in Deflector Parapet

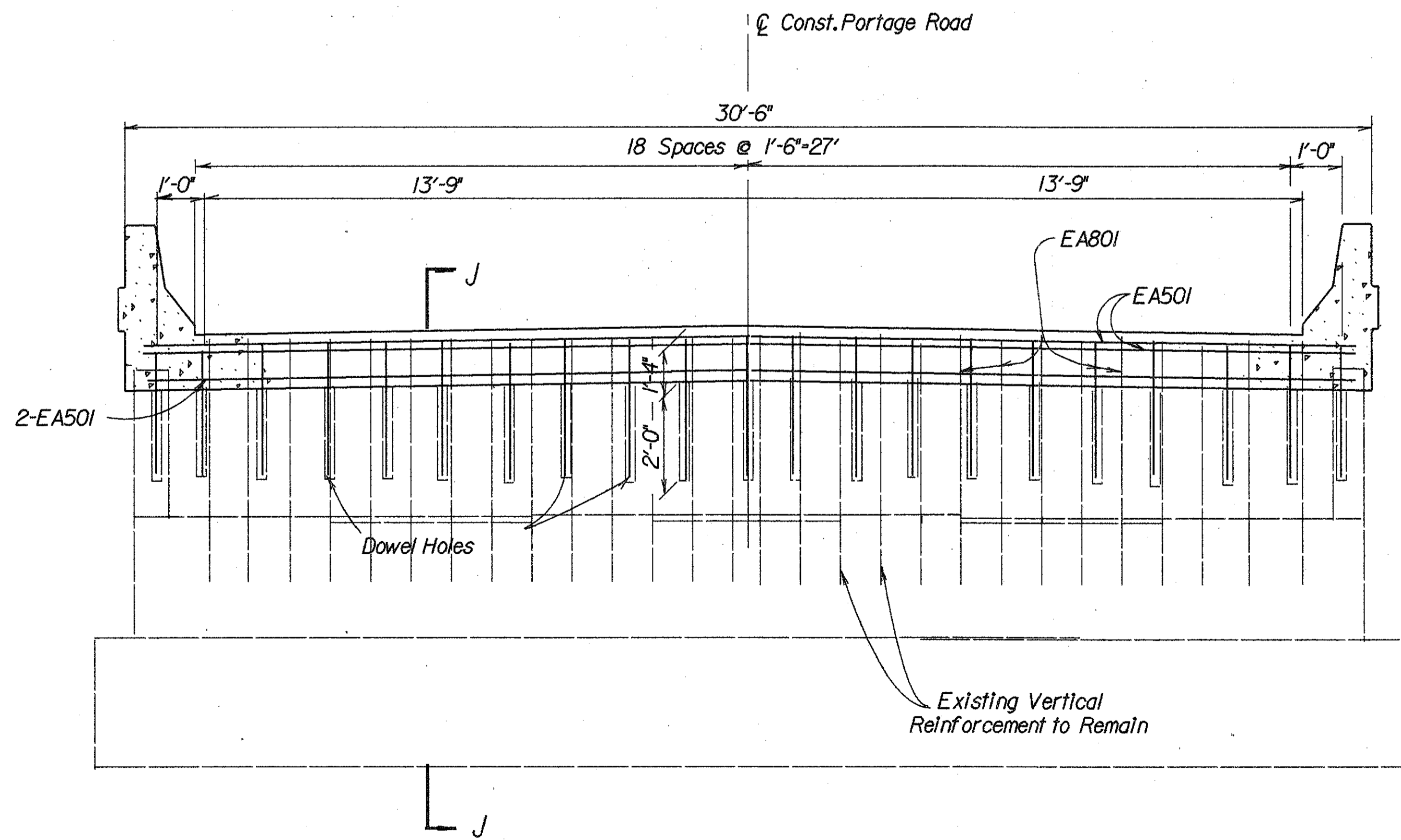
Z:\A1\200210\W75\FGSD3.DGN

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES							4/8
PARAPET DETAILS BRIDGE NO. W00-75-1118 PORTAGE ROAD							
DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	REVISED	
MTG			GG	WCL	7/14/82		

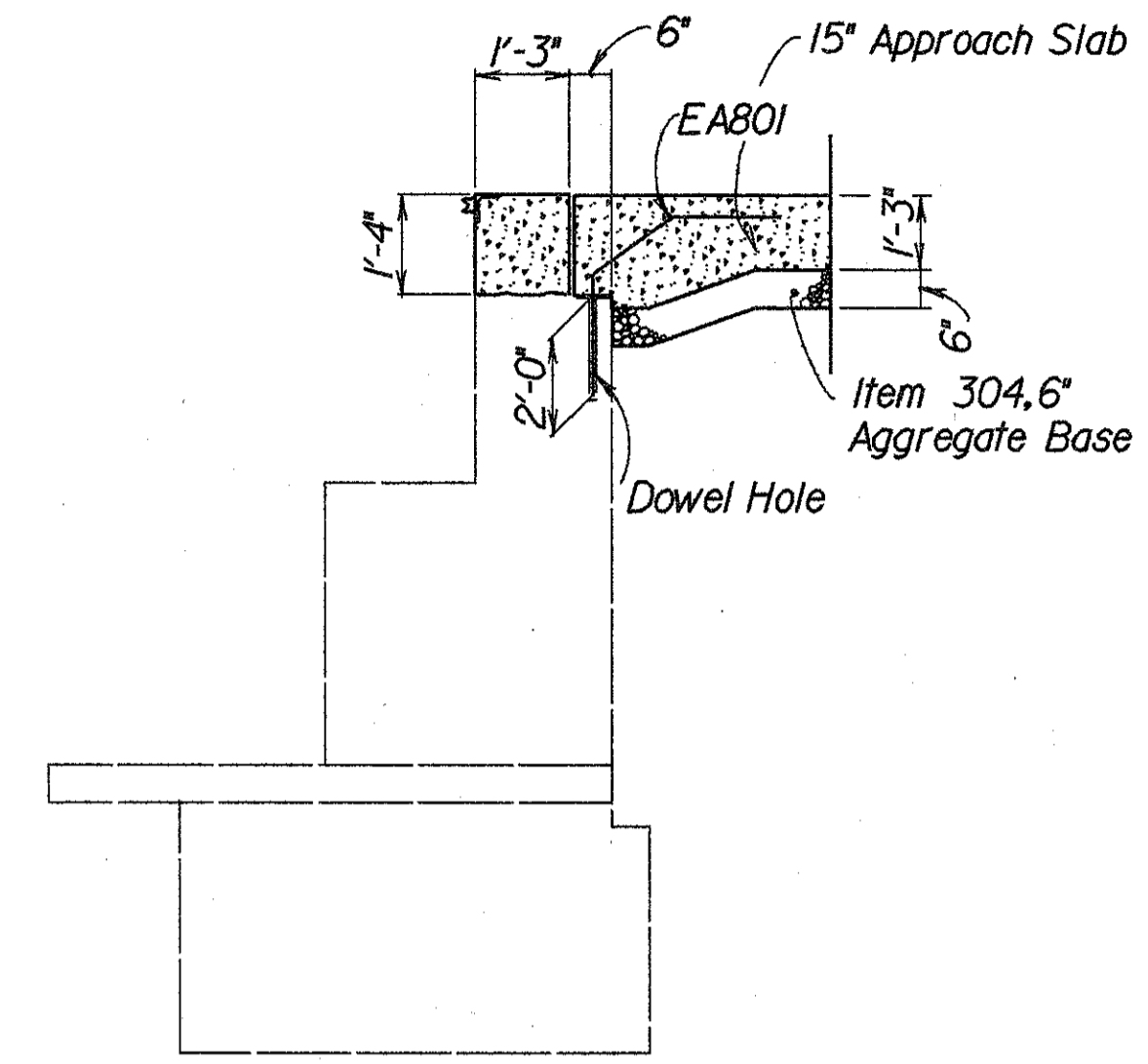
See Sht.No.6/8 for Sections E-E,F-F,G-G, and H-H



PLAN VIEW

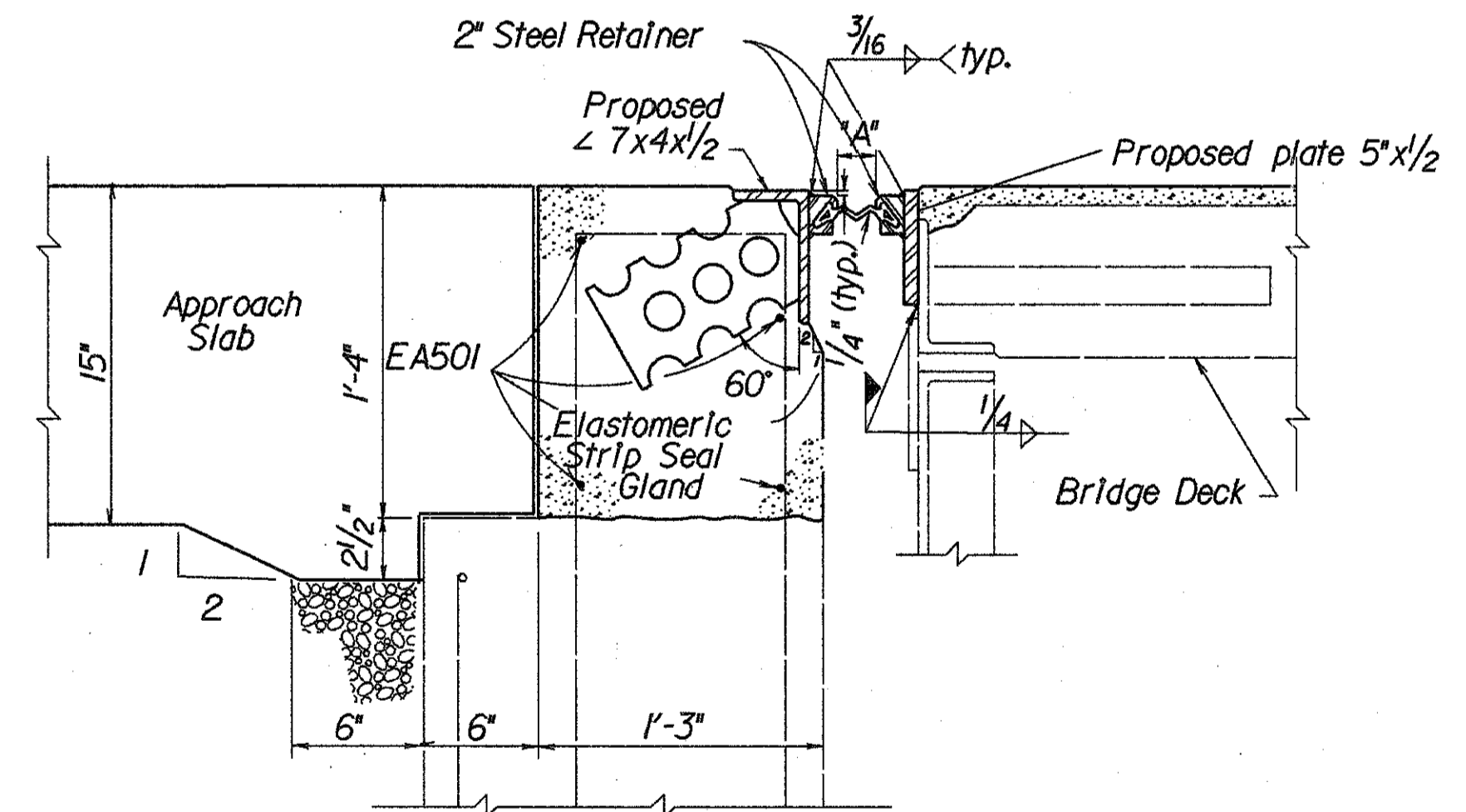


ELEVATION VIEW



SECTION J-J

NOTE: For Additional Expansion Joint Details See Std. Dwg. EXJ-4-87



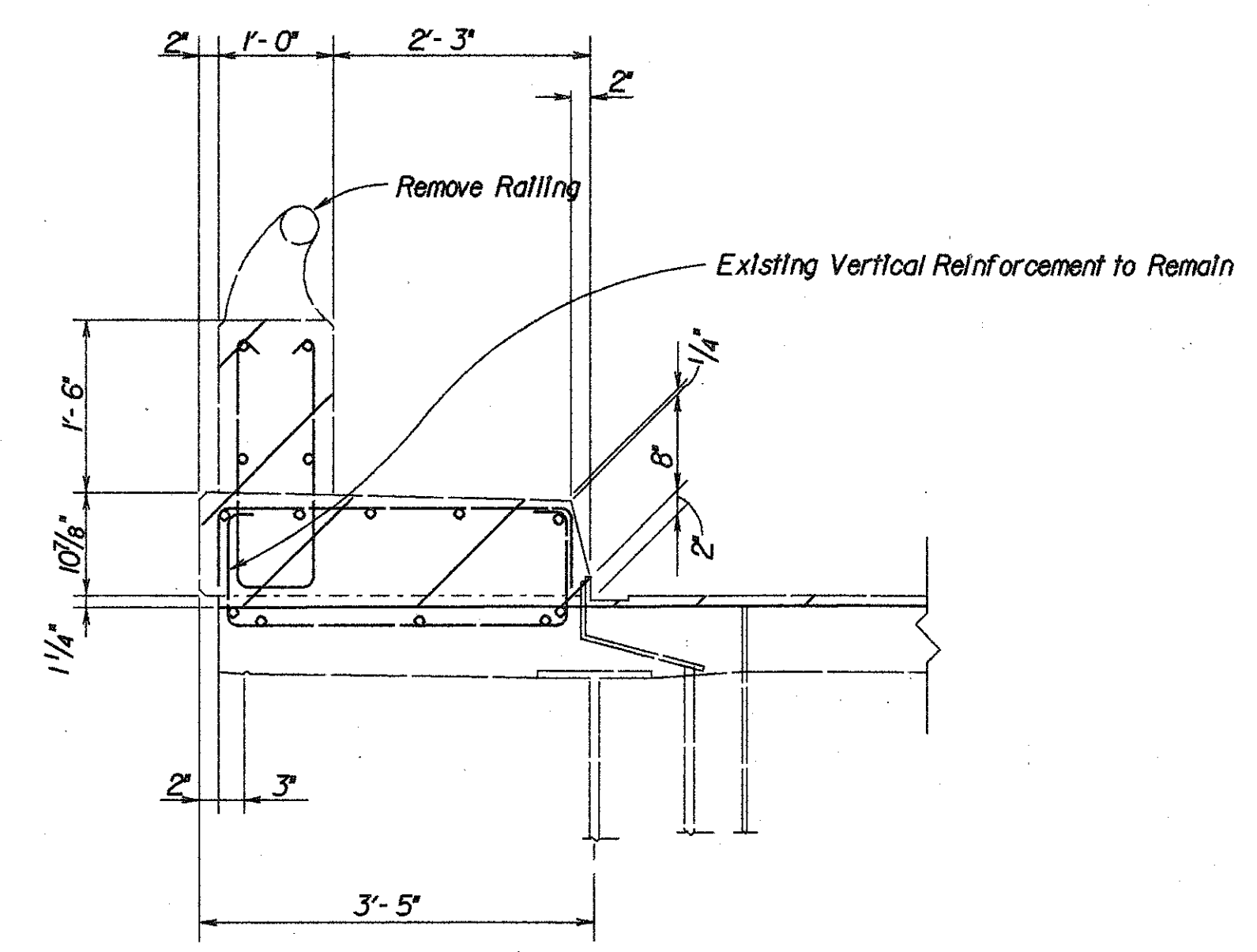
SECTION I-I

ZFAI200.230MWT5PGSD5.DGN

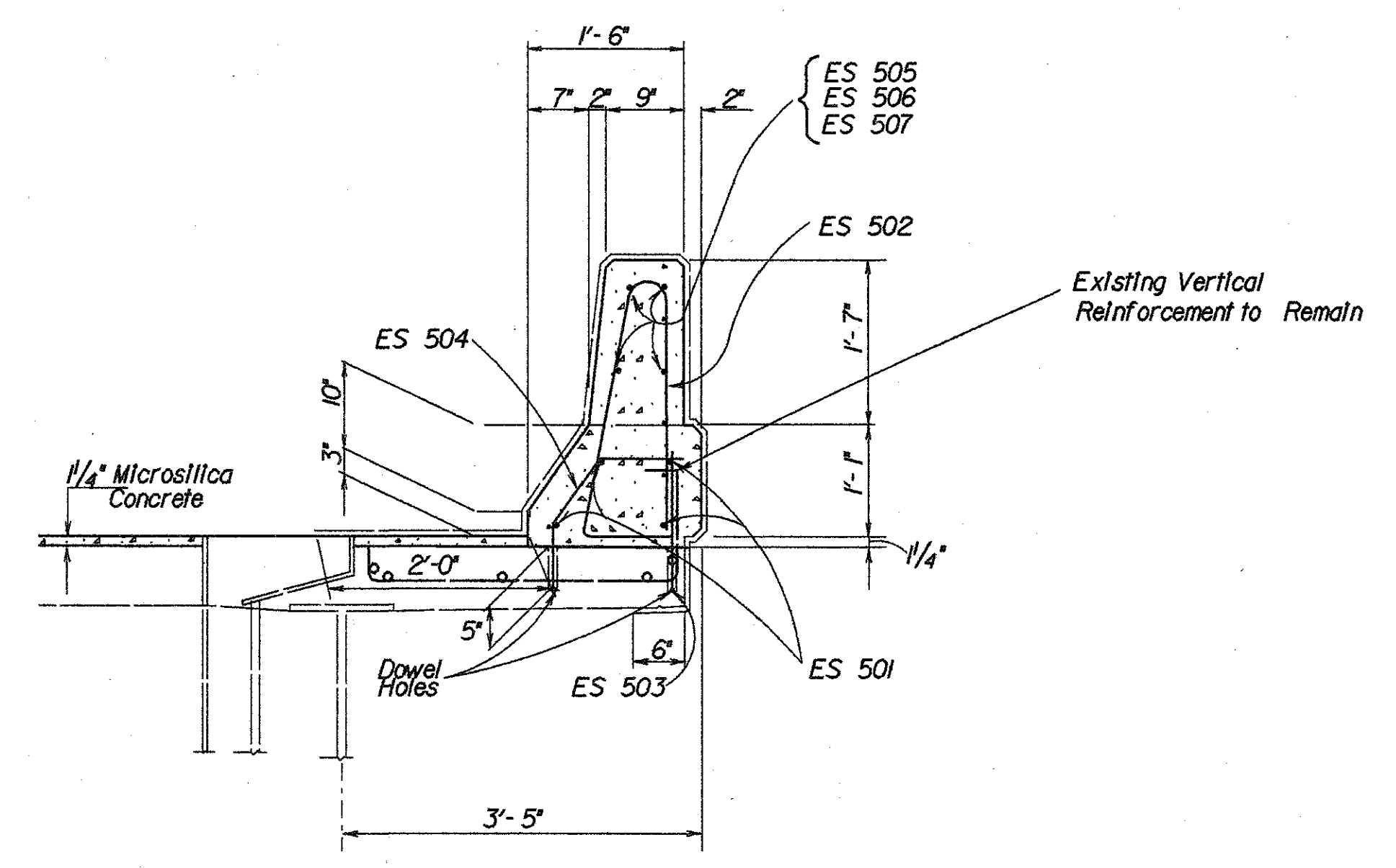
STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES							5/8
EXPANSION JOINT, AS PER PLAN B, ABUTMENT AND WINGWALL REHABILITATION DETAILS BRIDGE NO. W00-75-1118 PORTAGE ROAD							
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED	
MTG			GG	LLC	7/14/92		

LEGEND

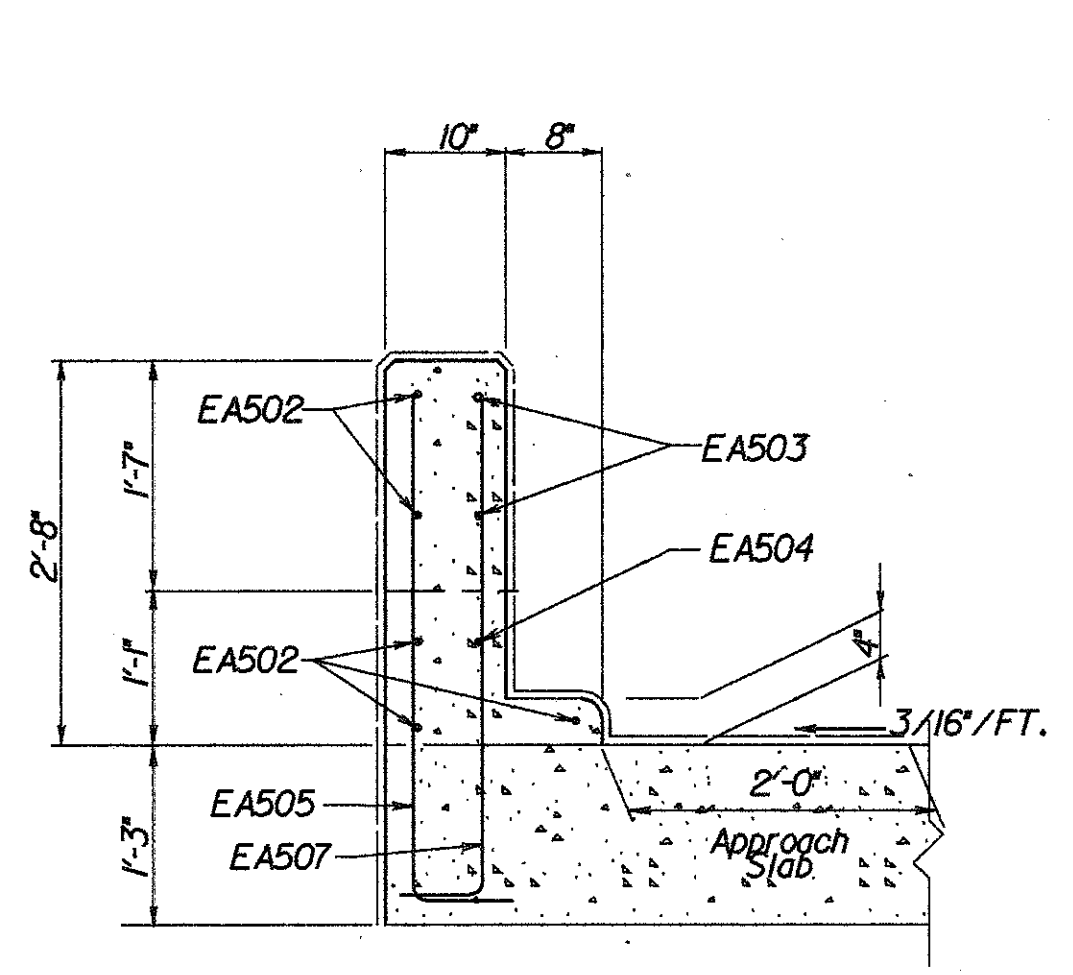
- Limits for Sealing of Concrete Surfaces
- ▨ Removal Limits



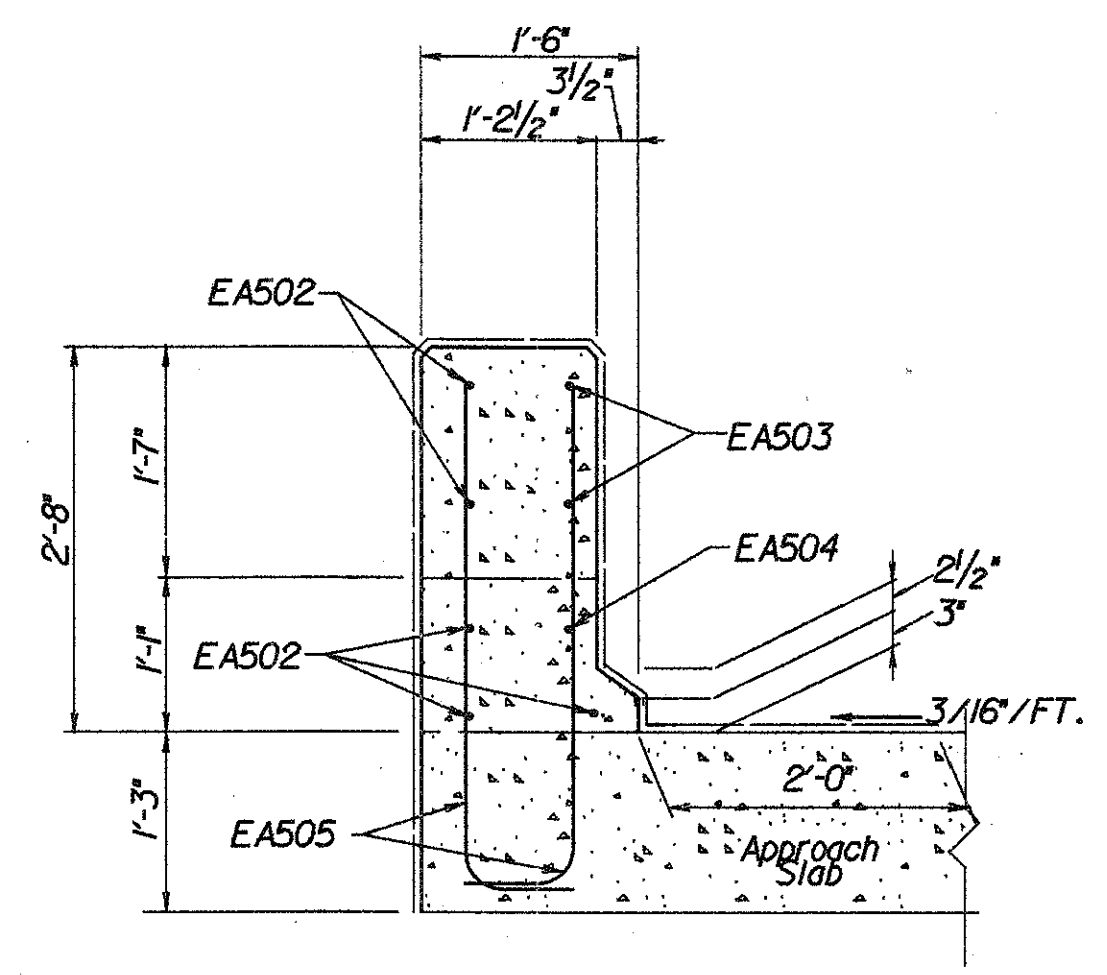
CROSS SECTION OF EXISTING PARAPET ON STRUCTURE



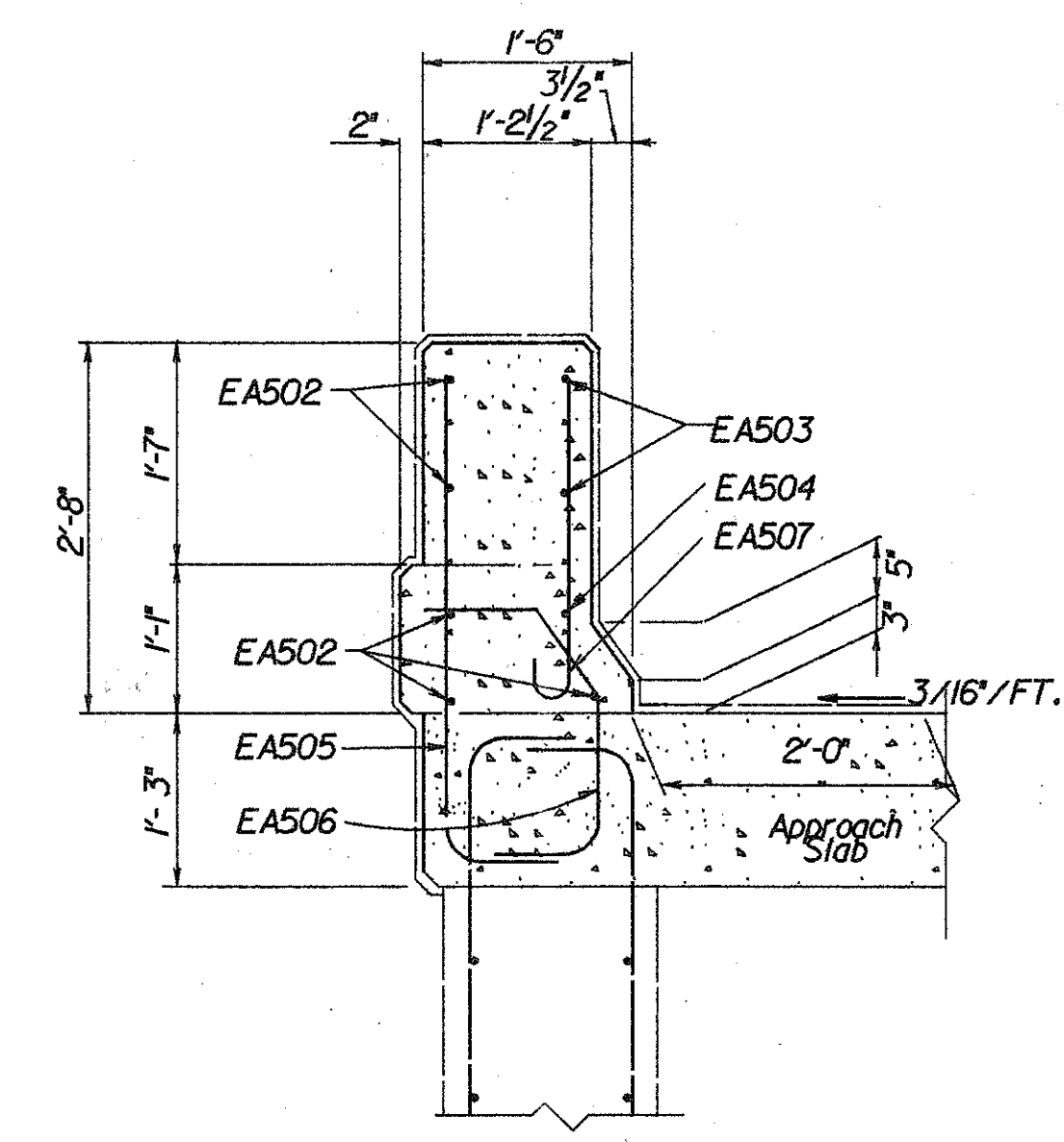
CROSS SECTION OF PROPOSED PARAPET ON STRUCTURE



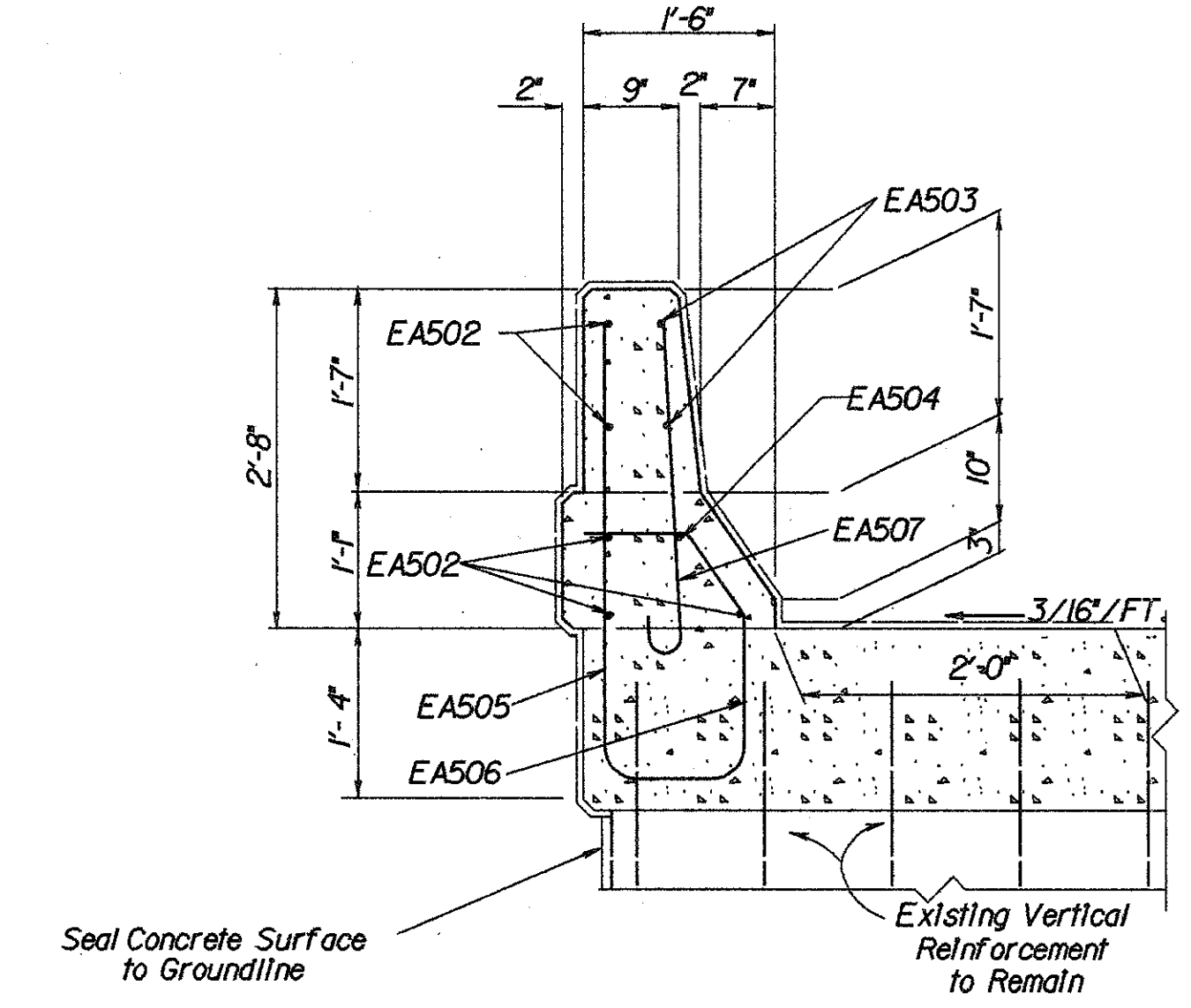
SECTION E-E



SECTION F-F



SECTION G-G



SECTION H-H

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BUREAU OF LOCATION AND DESIGN						6 / 8
PARAPET DETAILS						
BRIDGE NO. W00-75-1118						
PORTAGE ROAD						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED	
MTG			GG	LCL 7/14/82		

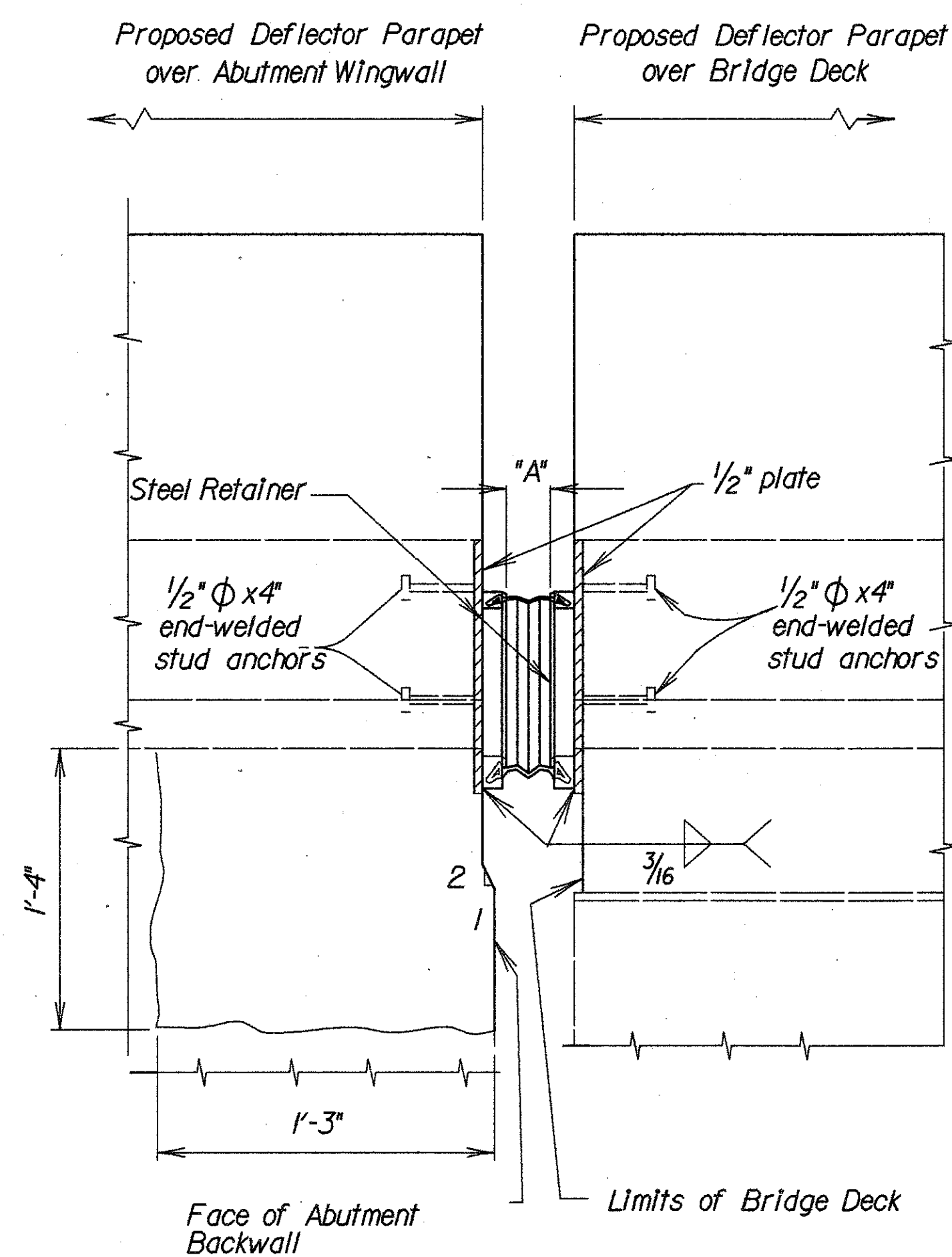
ZFAI:200210JW79PGSD4 .DGNH1

STRIP SEAL INFORMATION

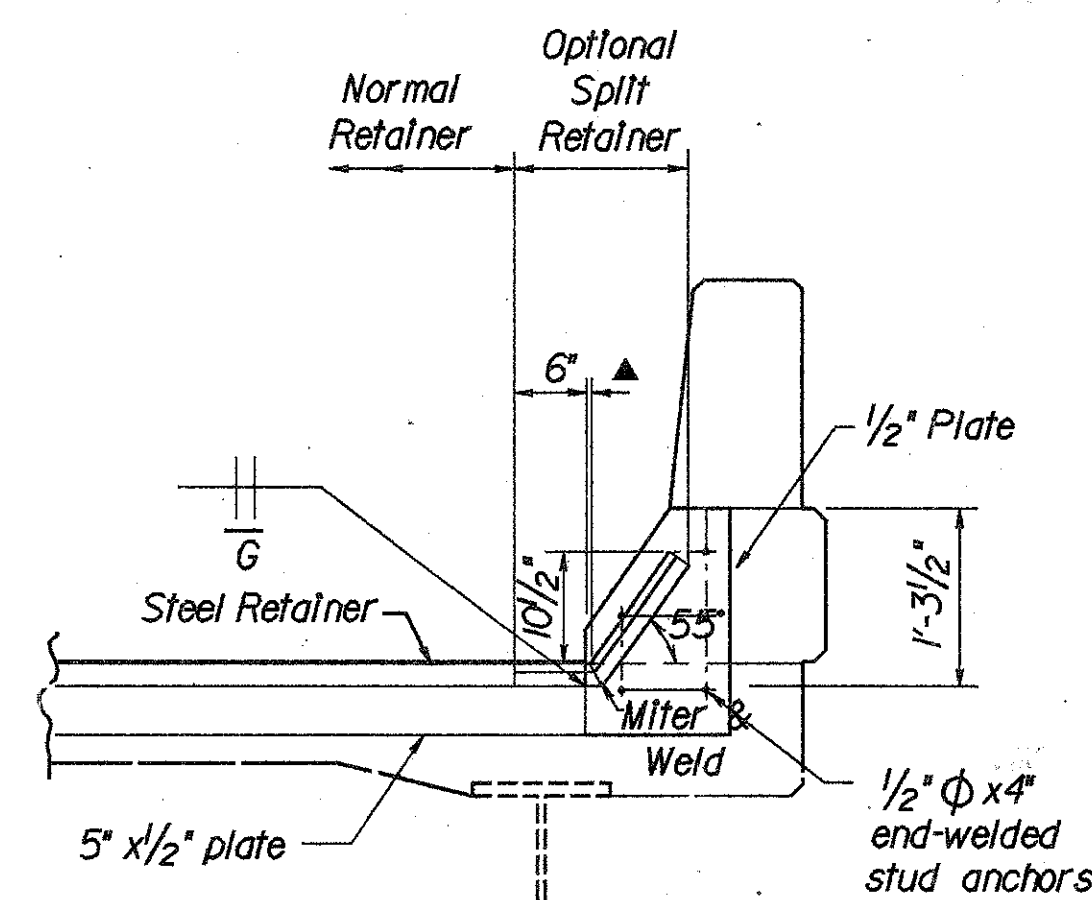
TEMPERATURE, °F	DIMENSION "A", INCHES	
	REAR ABUTMENT	FORWARD ABUTMENT
30	2	2
40	1 7/8	1 7/8
50	1 3/4	1 3/4
60	1 5/8	1 5/8
70	1 1/2	1 1/2
80	1 3/8	1 3/8
90	1 1/4	1 1/4
REQUIRED SEAL SIZE	3"	3"

STRIP SEAL DATA

SEAL SIZE	THE D.S. BROWN COMPANY	STRUCTURAL ACCESSORIES INC.	WATSON-BOWMAN & ACME CORP.
3"	300 L	40-SEQ	SE-300

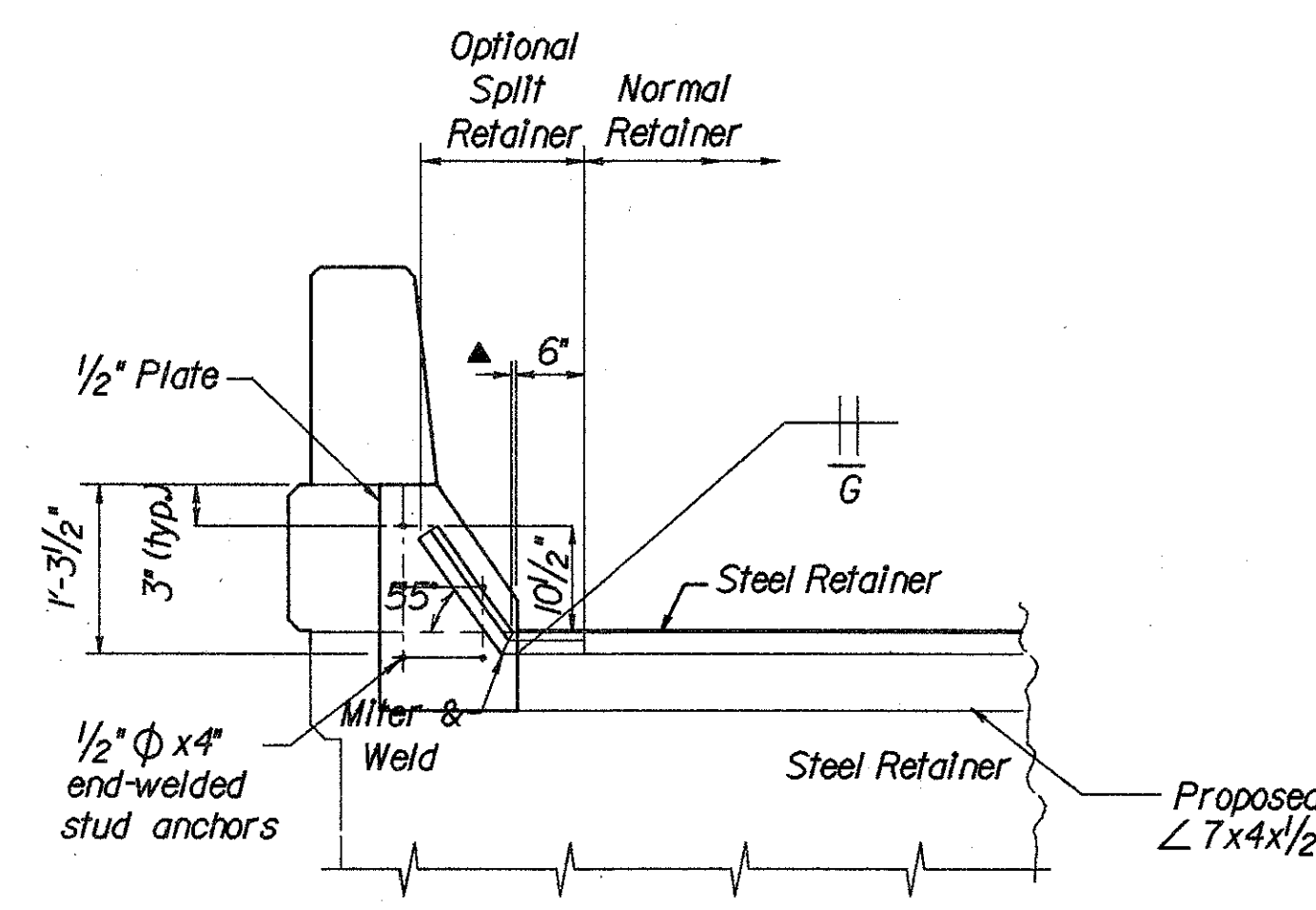


~SECTION 0-0~



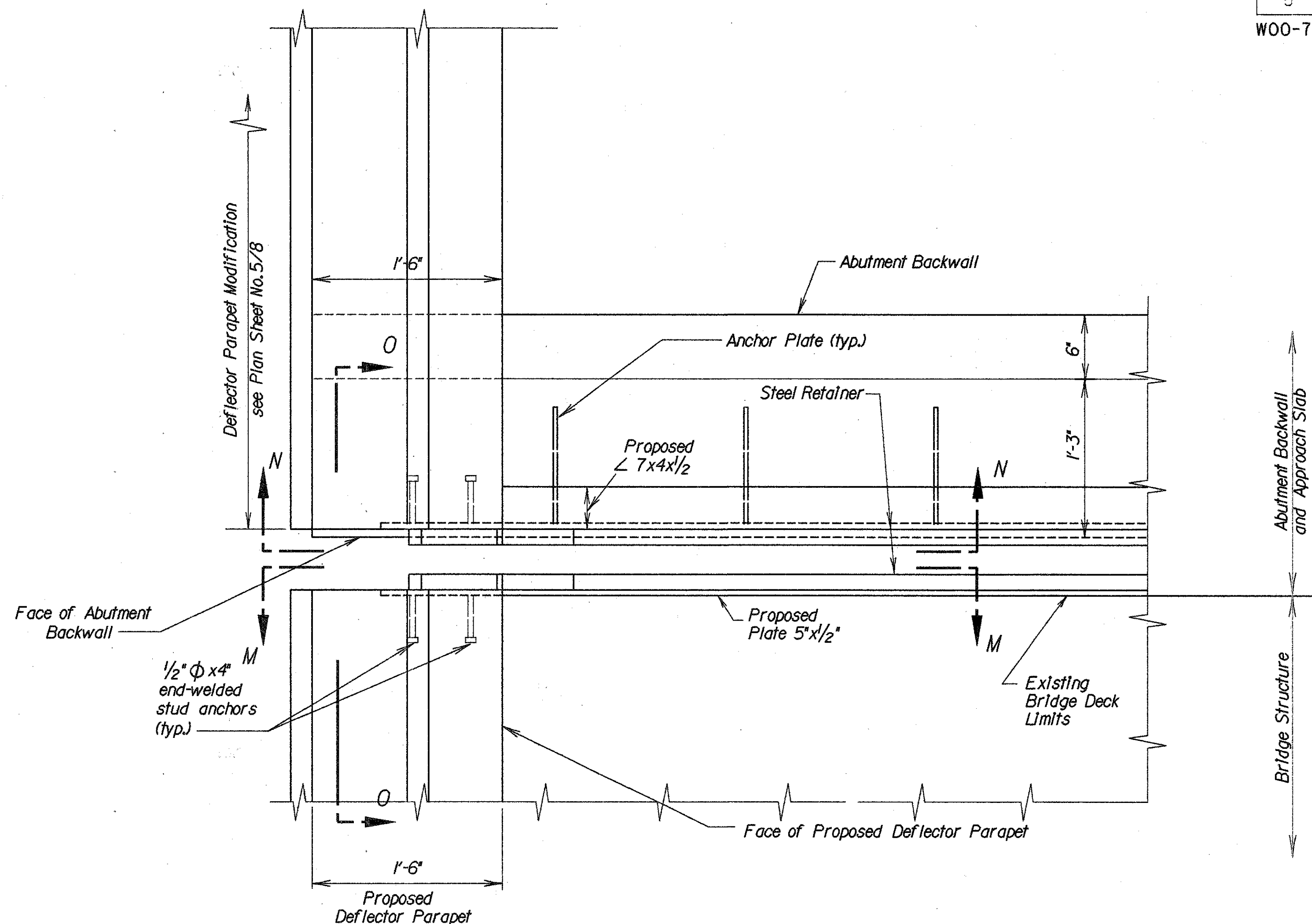
▲ 0" min./2" max. to breakpoint

~SECTION M-M~



▲ 0" min./2" max. to breakpoint

~SECTION N-N~

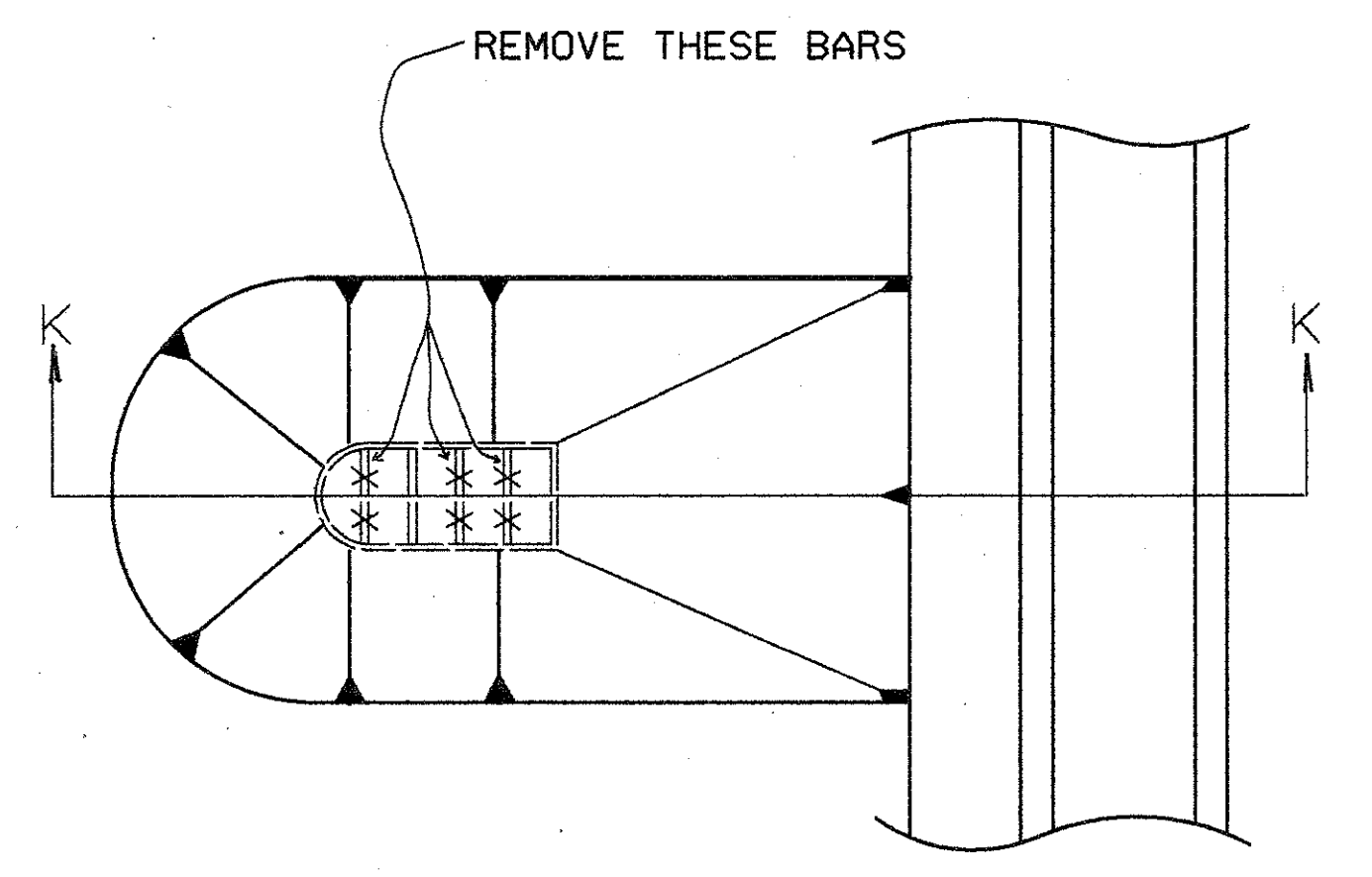


~PLAN VIEW~

ZFA1:1202101W75PGSD2 .DGN:1

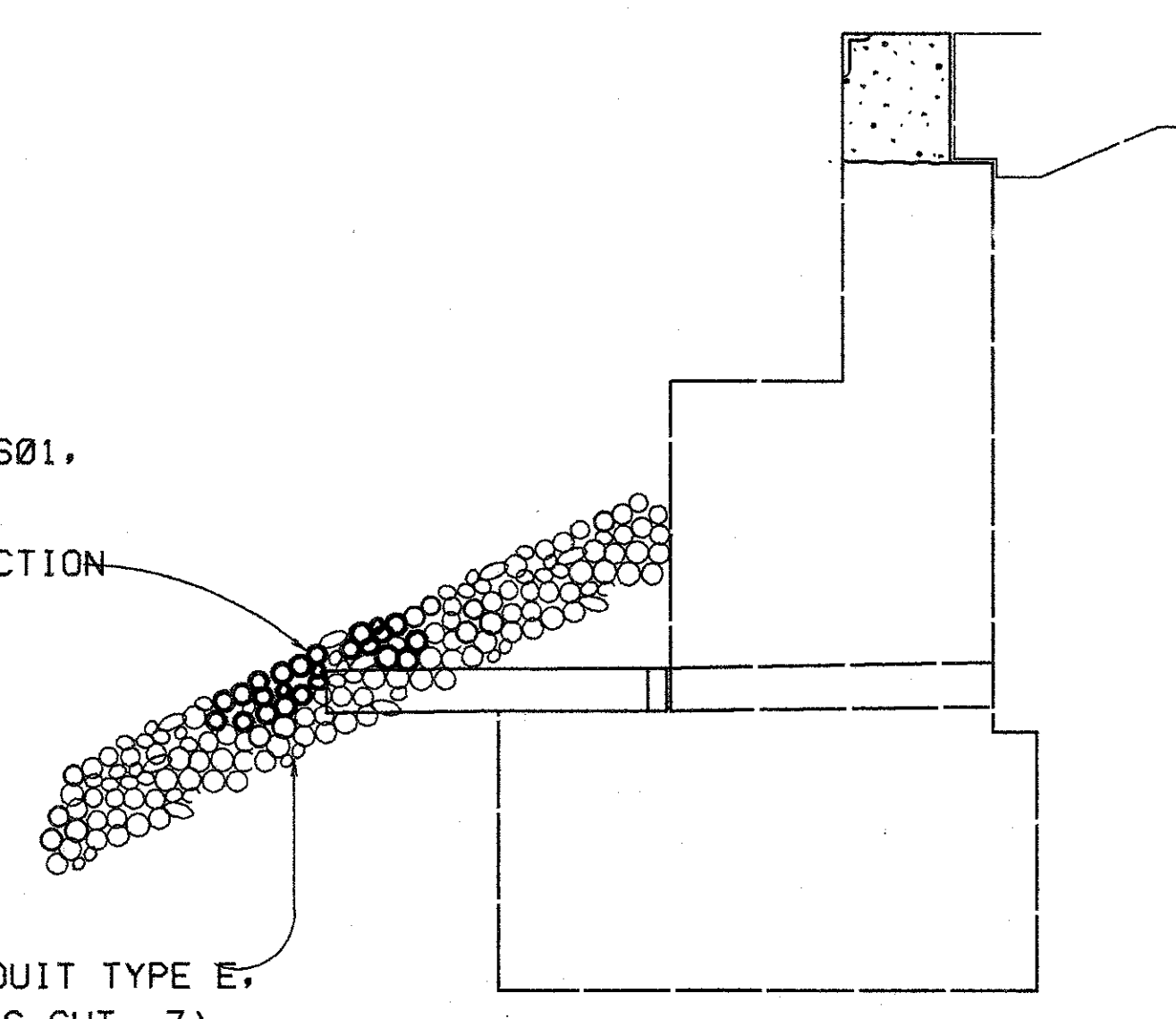
STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES						7 / 8
EXPANSION JOINT, AS PER PLAN B DETAILS						
BRIDGE NO. W00-75-1118						
PORTAGE ROAD						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MTG			GG	LCL	7/1/82	

SCUPPER MODIFICATION DETAIL



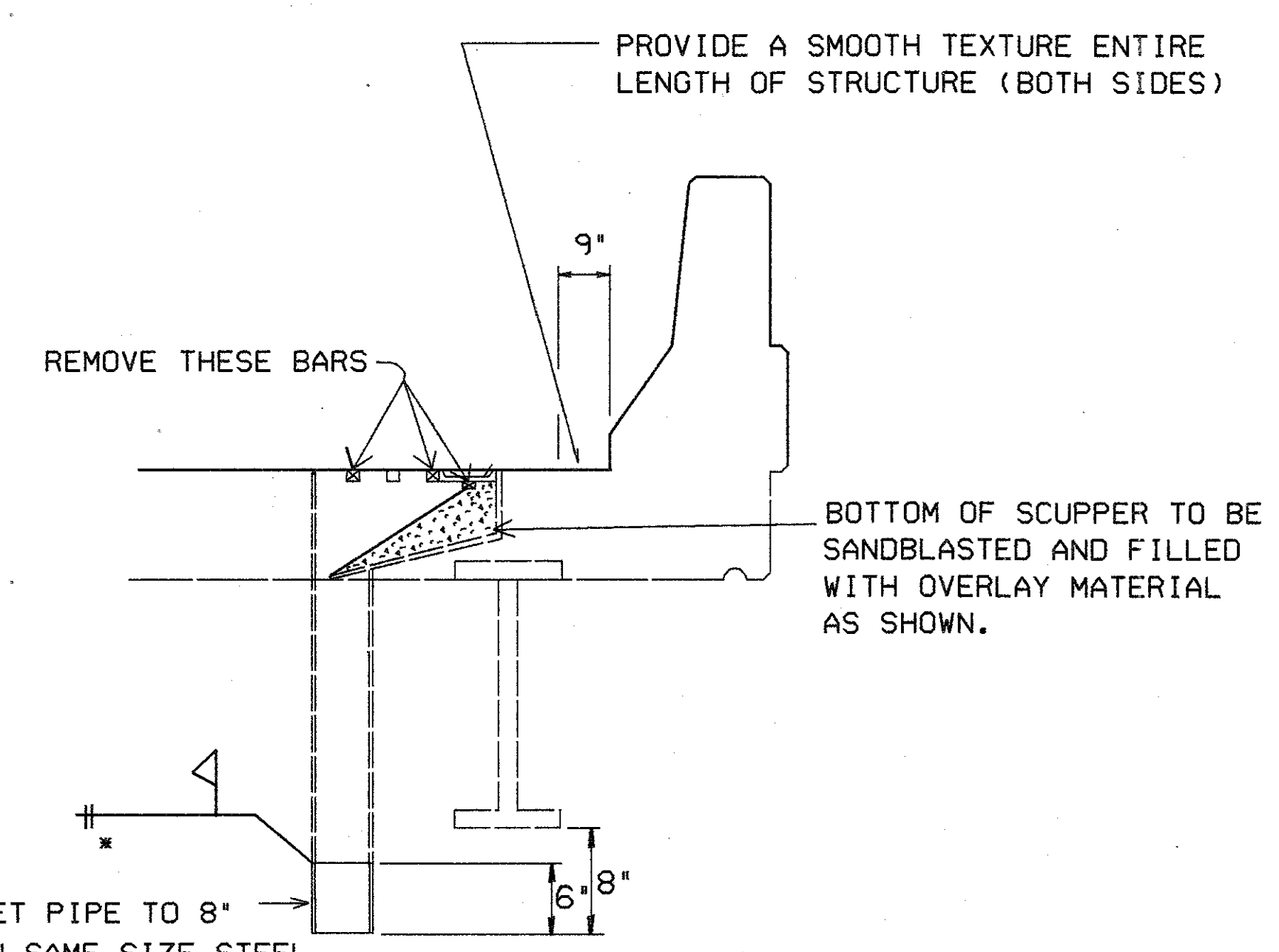
PLAN VIEW

ESTIMATED QUANTITY 25 CU.YD. OF ITEM 601, CRUSHED AGGREGATE SLOPE PROTECTION TO BE USED AS DIRECTED BY THE ENGINEER FOR LEVELING THE EXISTING SLOPE PROTECTION



ELEVATION

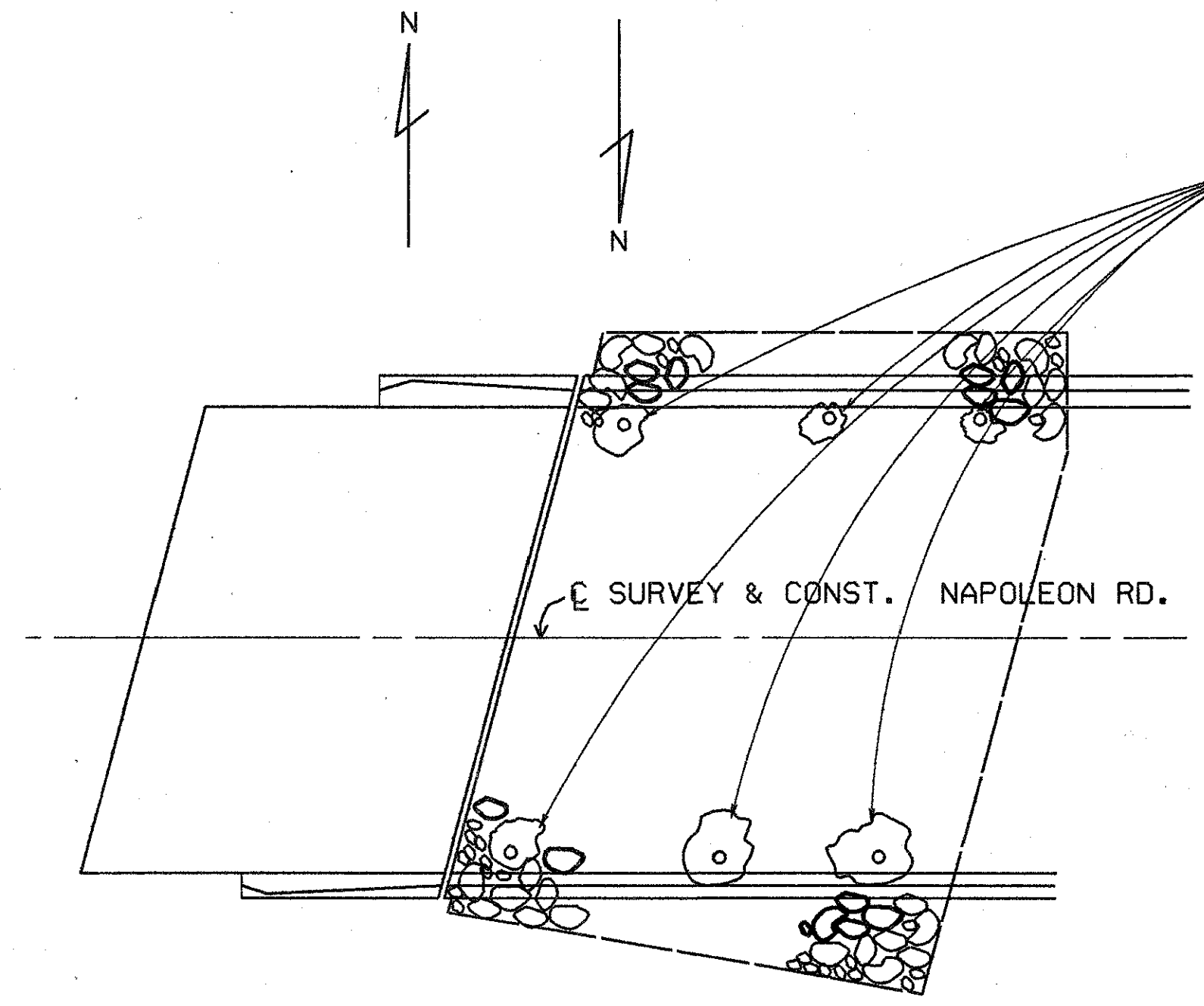
6" CONDUIT, TYPE E OR 6" CONDUIT TYPE E, AS PER PLAN (SEE GENERAL NOTES SHT. 7)



SECTION K-K

EXTEND EXISTING OUTLET PIPE TO 8" BELOW BEAM LANGE WITH SAME SIZE STEEL PIPE AS EXISTING. INCLUDE COST IN ITEM 518, SCUPPER MODIFICATION, AS PER PLAN.

FORWARD ABUTMENT REAR ABUTMENT



PLAN

THE EXISTING AND PROPOSED CRUSHED AGGREGATE SLOPE PROTECTION DIRECTLY UNDER THE BRIDGE DRAINAGE SCUPPERS SHALL BE PROTECTED BY GROUTING A 5' X 5' AREA OF AGGREGATE AS PER 601.03. AN ESTIMATED QUANTITY OF 34 SQ.YDS. SHALL BE USED AS DIRECTED BY THE ENGINEER FOR THIS PURPOSE.

ZFAH2002101W75PSSC .DGNH1

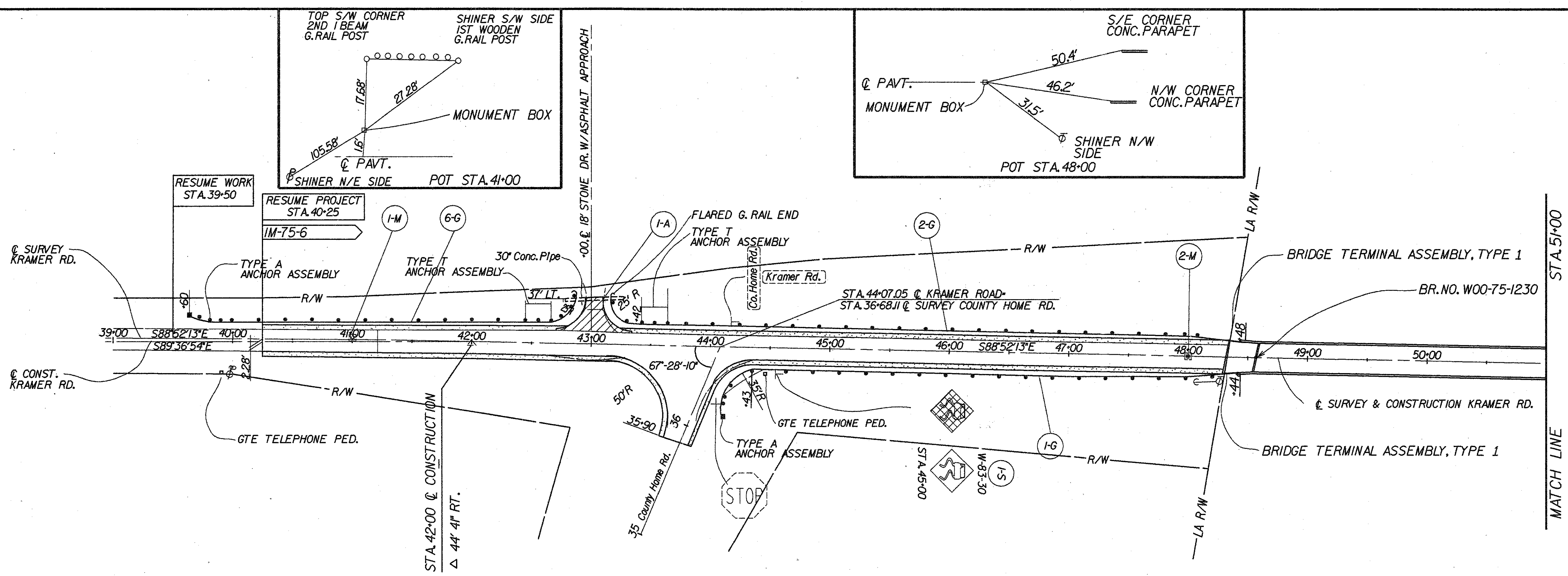
STATE OF OHIO					8 / 8
DISTRICT 2			DESIGN & PLANNING OFFICE		
MISCELLANEOUS DETAILS					
BRIDGE NO. W00-75-1118					
PORTAGE ROAD					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
MTG			GG	LCL 7/1/82	

FHWA REGION	STATE	PROJECT	
5	OHIO		

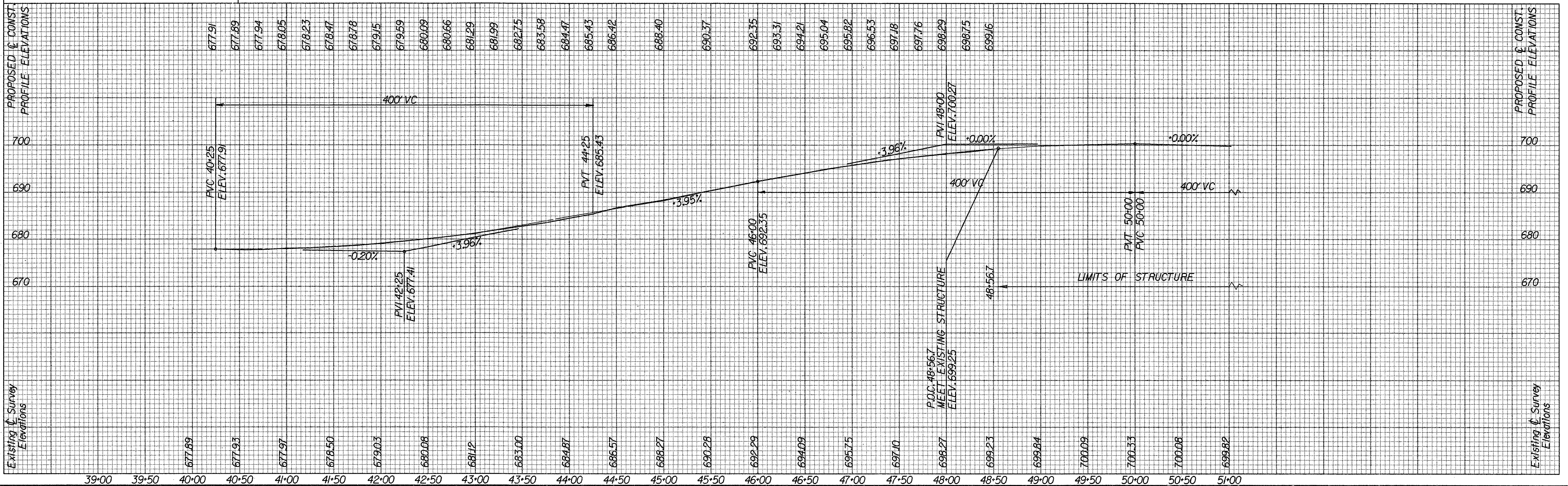
70
116

W00-75-3.01 (VARIOUS)

- LEGEND**
- TYPE I DRIVEWAY AS PER BP-4J
2" 404 ASPHALT CONCRETE
8" 304 AGGREGATE BASE
 - 4' WIDE BITUMINOUS SURFACE TREATED SHOULDER
- SIGN LEGEND**
- EXISTING SIGN TO BE REMOVED
 - NEW SIGN
 - EXISTING SIGN TO REMAIN

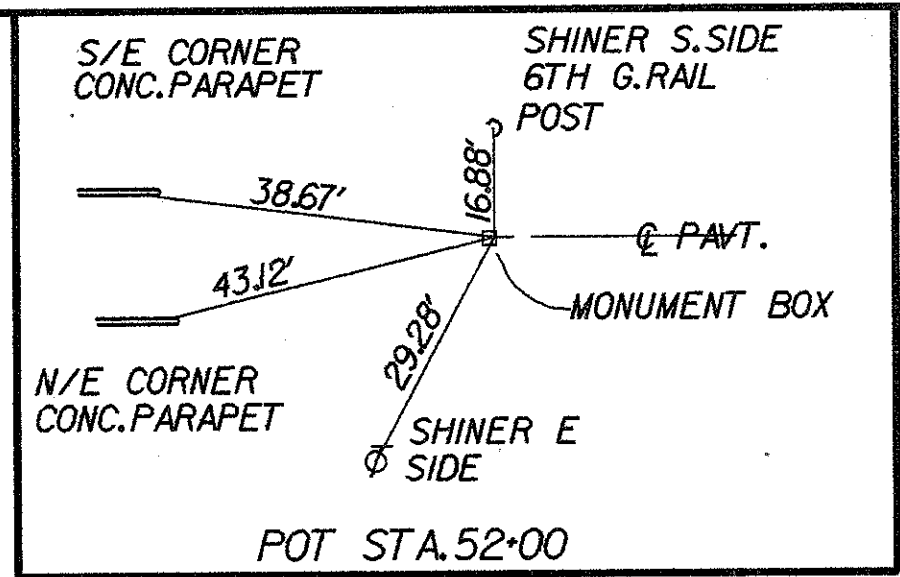


BM ~ R.R. SPIKE IN N. SIDE POWER POLE
STA. 39+93.31 RT.
ELEV. 678.37



KRAMER RD. STA. 39 + 00 TO STA. 51 + 00

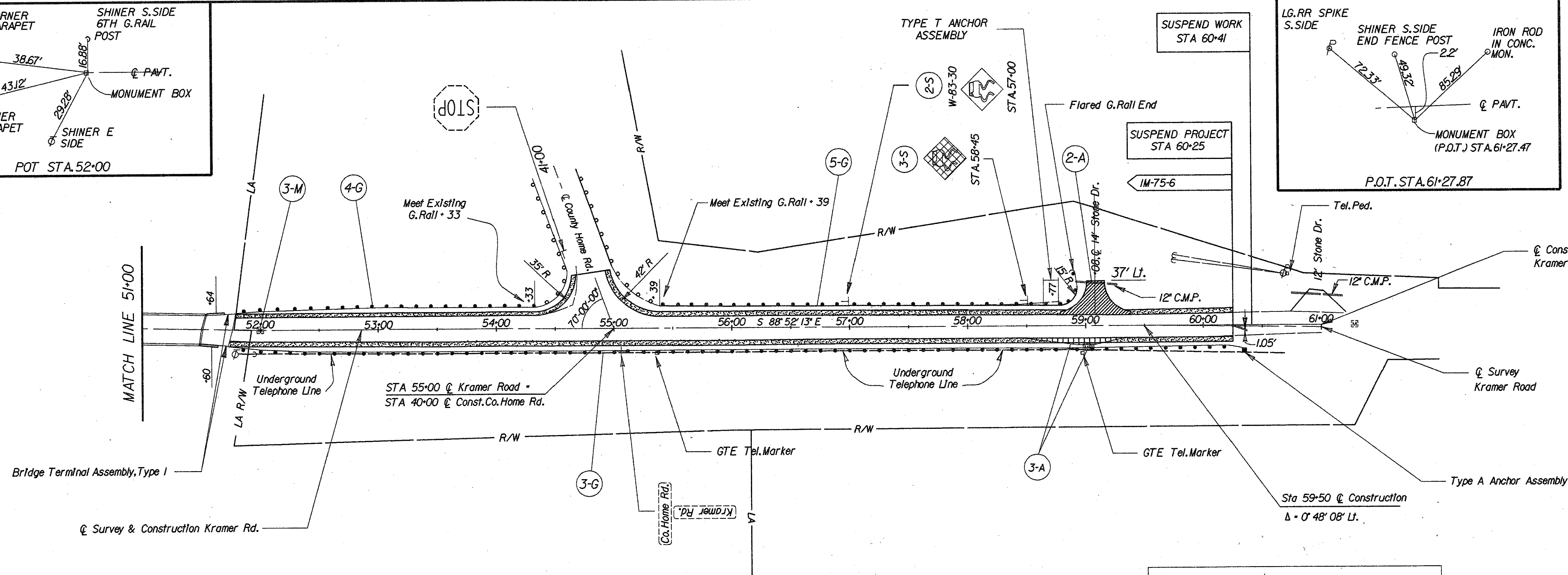
W15KR39P.DGN



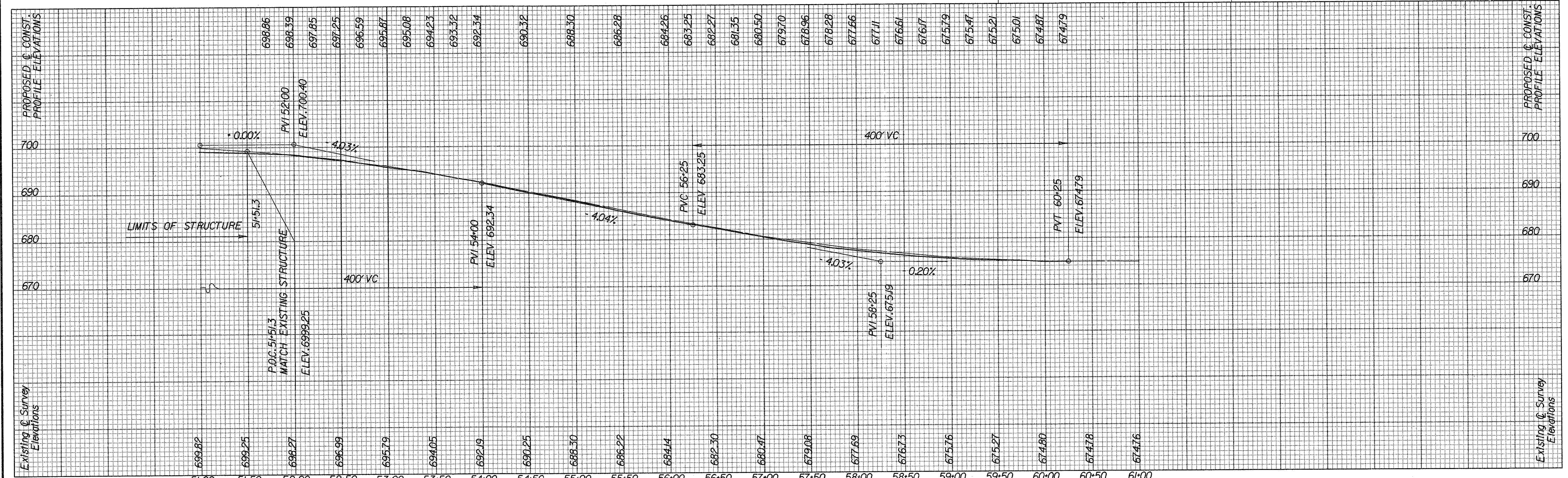
FIRM REGION	STATE	PROJECT	71 116
5	OHIO		

- W00-75-3.01 (VARIOUS)
- LEGEND
- TYPE I DRIVEWAY AS PER BP-6
 - 2" 404 ASPHALT CONCRETE
8" 304 AGGREGATE BASE
 - 4' WIDE BITUMINOUS SURFACE TREATED SHOULDER
 - ASPHALT MAILBOX APPROACH
SAME MATERIAL AS SURFACE TREATED SHOULDER

- SIGN LEGEND
- NEW SIGN
 - EXISTING SIGN TO REMAIN
 - EXISTING SIGN TO BE REMOVED



BM ~ STA. 60+68, 41' LT.
R.R. SPIKE IN POWER POLE
ELEV. 676.84



W75KR53P.DGN

QUANTITIES
 CALC. BY GG DATE 3-16-91
 CKD. BY MTG DATE 3-17-92
 Revised 9-16-92

SUBSUMMARY

ITEM	EXT.	TOTAL	UNIT	DESCRIPTION
-ROADWAY-				
202	22900	147	SQ. YD.	APPROACH SLAB REMOVED (T = 13")
202	38000	2618	LIN. FT.	GUARDRAIL REMOVED
202	98100	1	EACH	MAILBOX SUPPORT POST REMOVED (AS PER PLAN)
203	12000	2330	CU. YD.	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION
203	20000	78	CU. YD.	EMBANKMENT
203	50000	6231	SQ. YD.	SUBGRADE COMPACTION
604	39500	3	EACH	MONUMENT BOX ADJUSTED TO GRADE
606	13000	2806	LIN. FT.	GUARDRAIL, TYPE 5
606	25000	3	EACH	ANCHOR ASSEMBLY, TYPE A
606	26500	6	EACH	ANCHOR ASSEMBLY, TYPE T
606	35000	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1
802	00300	31	EACH	BARRIER REFLECTOR, TYPE A2, (WHITE)
802	00400	6	EACH	BARRIER REFLECTOR, TYPE B2, (WHITE)
SPECIAL	60950200	1	EACH	MAILBOX SUPPORT SYSTEM, DOUBLE
-TRAFFIC CONTROL-				
630	03100	30	LIN. FT.	GROUND MOUNTED SUPPORT, NO. 3 POST
630	80100	13	SQ. FT.	SIGN, FLAT SHEET
630	84900	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
630	86002	2	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
-EROSION CONTROL-				
659	10000	3189	SQ. YD.	SEEDING AND MULCHING
659	35000	7	MGAL.	WATER
659	20000	0.29	TON	COMMERCIAL FERTILIZER
-DRAINAGE-				
605	31100	660	LIN. FT.	AGGREGATE DRAIN
-PAVEMENT-				
301	10002	659	CU. YD.	BITUMINOUS AGGREGATE BASE
304	20001	1221	CU. YD.	AGGREGATE BASE, AS PER PLAN
402	20000	222	CU. YD.	ASPHALT CONCRETE, AC-20
404	20000	167	CU. YD.	ASPHALT CONCRETE, AC-20
408	10000	62	GALLON	BITUMINOUS PRIME COAT
409	12500	13	CU. YD.	SEAL COAT COVER AGGREGATE NO. 8 FOR SHOULDERS
409	21000	457	GALLON	SEAL COAT BITUMINOUS MATERIAL FOR SHOULDERS
611	25000	161	SQ. YD.	REINFORCED CONCRETE APPROACH SLAB (T=15")

UNDERDRAIN TABLE

Station	Side	Item	Description	Total
From	To			
41+00	48+50	RT.	605 Aggregate Drain	16 @ 10' Avg. = 160 Lin. Ft.
40+75	48+25	LT.	605 Aggregate Drain	16 @ 10' Avg. = 160 Lin. Ft.
51+75	60+25	RT.	605 Aggregate Drain	18 @ 10' Avg. = 180 Lin. Ft.
52+75	60+00	LT.	605 Aggregate Drain	16 @ 10' Avg. = 160 Lin. Ft.
Totals to Subsummary				660 Lin. Ft.

EARTH WORK AND SEEDING TABLE

Station	Excavation Not Including Embankment	203 Embankment	659 Seeding And Mulching	
				To
40+25	45+00	591	31	651
45+00	48+56.7	542	25	893
51+51.3	55+00	370	10	488
55+00	60+00	653	12	896
60+00	60+25	174	0	261
Total to Subsummary		2330	78	3189

MONUMENT TABLE

Ref.	Station	Side	604 Mon. Assem. Removed And Reset
			EACH
1-M	41+00	℄	1
2-M	48+00	℄	1
3-M	52+00	℄	1
Totals to Subsummary			3

GUARDRAIL TABLE

Ref.	Station		Side	202 Guardrail Removed	606 Guardrail Type 5	606 Anchor Assem. Type A	606 Anchor Assem. Type T	606 Bridge Term. Assem. Type 1	802 Barrier Reflect. Type A2	802 Barrier Reflect. Type A2
	To	From								
1-G	43+99	48+44	RT.	469	450	1	1	1	5	
2-G	43+17	48+48	LT.	548	543.75	1	1	1	6	
3-G	51+60	60+41	RT.	765	856.25	1	1	1	8	
4-G	51+64	54+33	LT.	284	268.75		1	1	3	
5-G	55+39	59+02	LT.	339	375.00		2		5	3
6-G	39+60	42+85	LT.	212.5	312.50	1	1			3
Bridge			RT.						4	
Bridge			LT.							
Totals to Subsummary				2617.5	2806.25	3	6	4	31	6

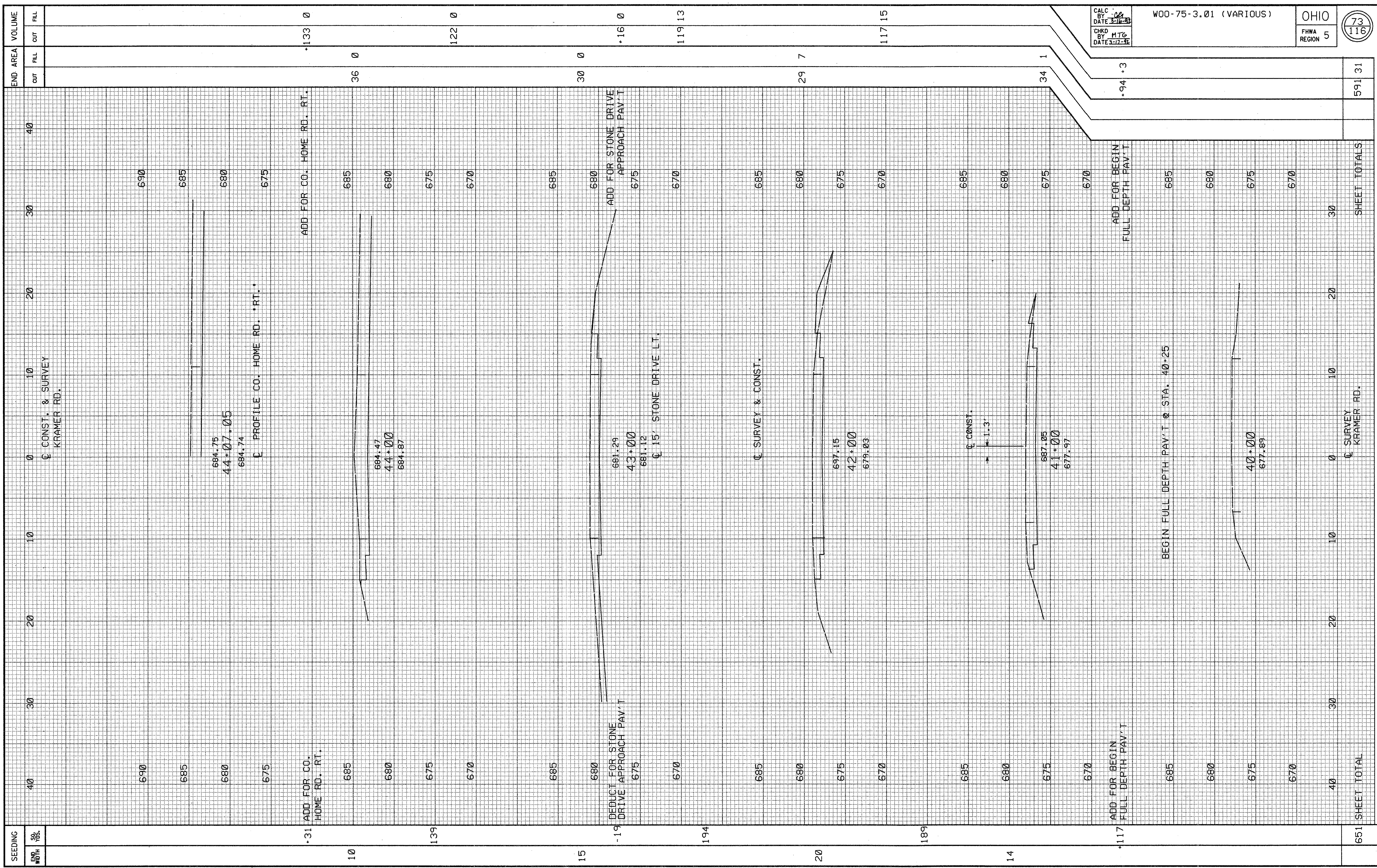
DRIVEWAY TABLE

Ref.	Station	Side	202 Mailbox Support Post Removed	304 8" Aggregate Base	404 2" Asphalt Concrete	408 Bitum. Prime Coat (0.4 gal/sqyd)	409 Seal Coat Cover Agg.No.8 (.0083 cuyd/sqyd)	409 Seal Coat Bitum. Material (0.3 gal/sqyd)	609 Mailbox Support System, Double
1-A	43+00	LT.		17.48	4.37	31.47			
2-A	59+08	LT.		16.84	4.21	30.31			
3-A	59+02	RT.	1	1.21			.05	1.63	1
Totals to Subsummary			1	35.35	8.58	61.78	.05	1.63	1

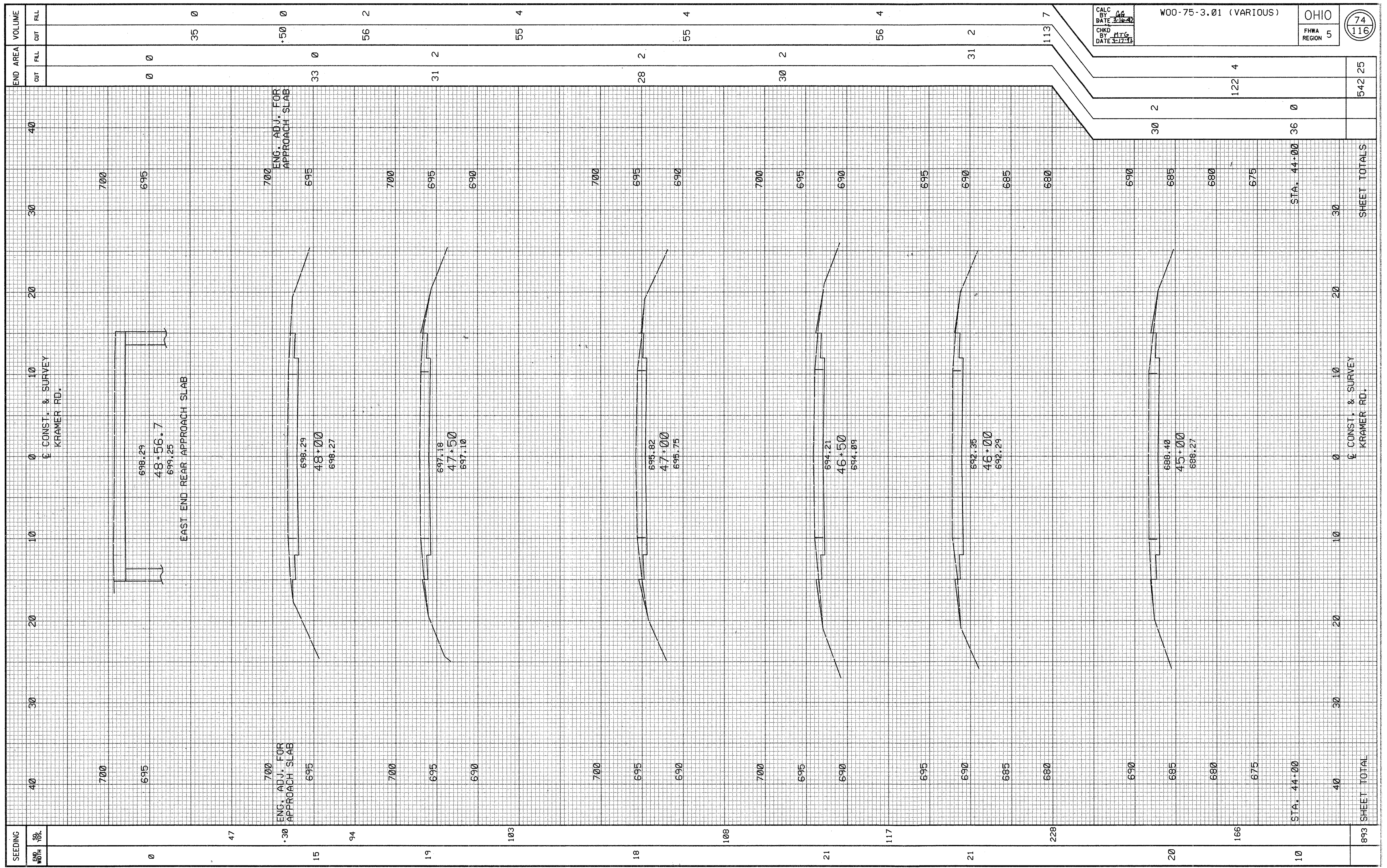
SIGN TABLE

Ref.	Station	Side	Sign Code Number	Sign in Inches	630 Sign, Flat Sheet	630 Ground Mounted Support, No. 3 Post	630 Removal Of Ground Mounted Sign & Disposal	630 Removal Of Ground Mounted Post Support & Disposal
1-S	44+50	RT.	W-83-30	30x30	6.25	15.5	1	1
2-S	57+00	LT.	W-83-30	30x30	6.25	14.5		
3-S	58+45	LT.					1	1
Totals to Subsummary					12.50	30.0	2	2

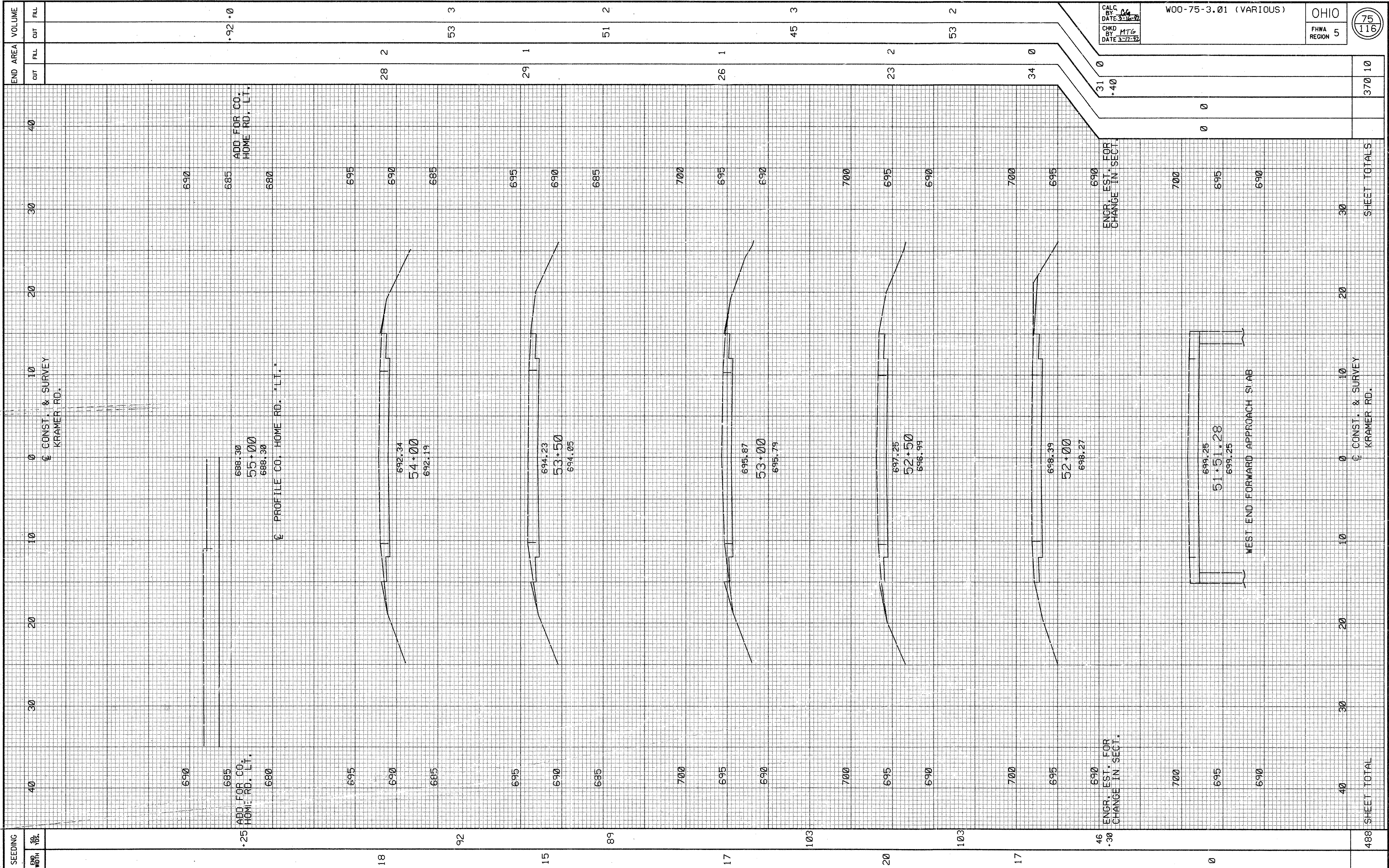
W75KRSS.DWG(MGE):1



X-SECTIONS STA. 40+00 TO STA. 44+07.05 KRAMER RD.



SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA		VOLUME
		CUT	FILL	
0	47	0	0	35 0
15	94	33 0	0	56 2
19	103	31 2	0	55 4
18	108	28 2	0	55 4
21	117	30 2	0	56 4
21	128	31 2	0	56 4
20	166	30 2	0	56 4
10	113	31 2	0	56 4
893 SHEET TOTAL		122 4	0	542 25



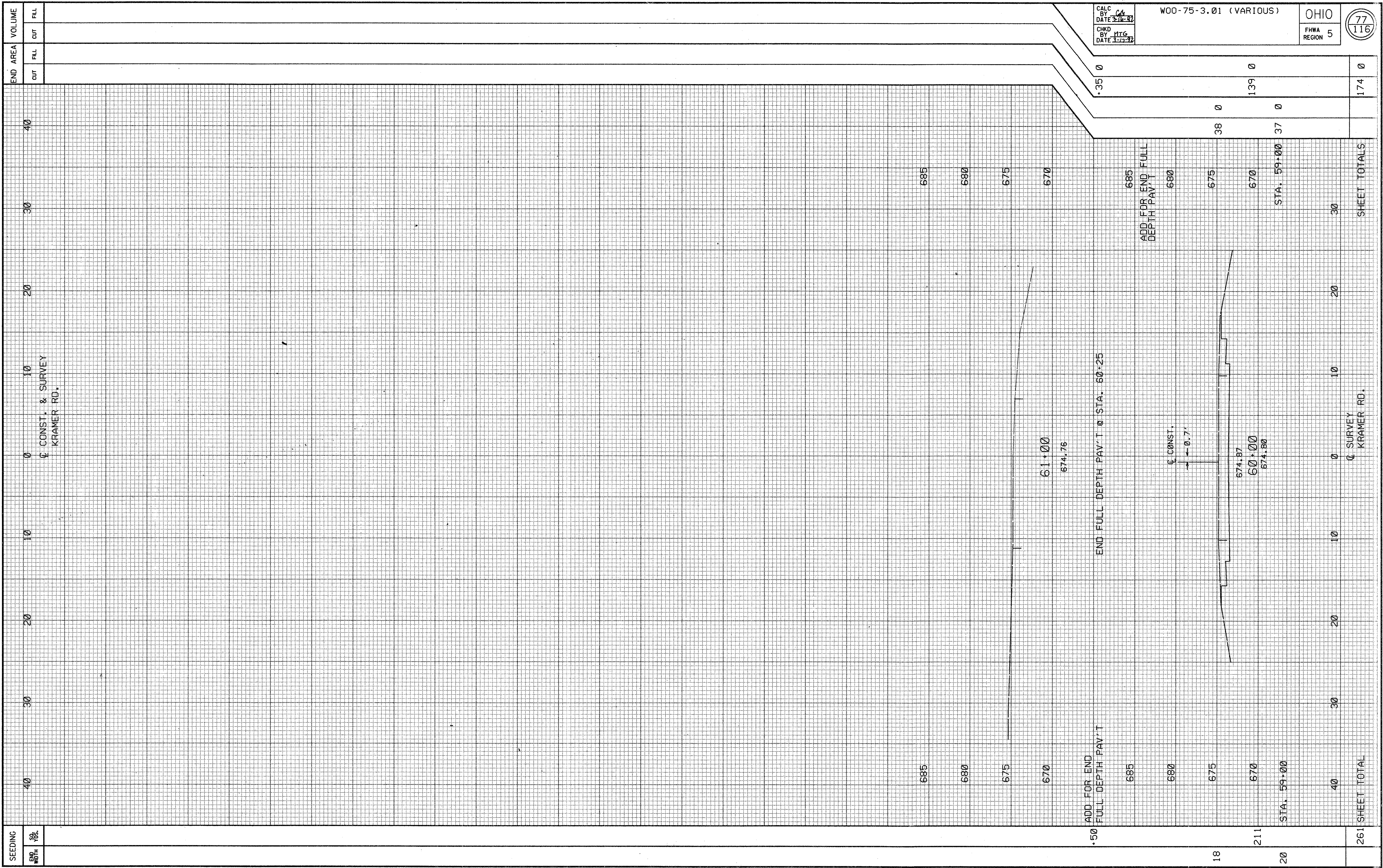
SEEDING	END AREA		VOLUME
	CUT	FILL	
18	28	2	53 3
15	29	1	51 2
17	26	1	45 3
20	23	2	53 2
17	34	0	
46	31	0	
0			+92 +0
488	SHEET TOTAL		370 10

CALC BY: *MTG*
 DATE: *3-16-92*
 CHKD BY: *MTG*
 DATE: *3-17-92*

WOO-75-3.01 (VARIOUS)

OHIO
FHWA REGION 5

75
116



SEEDING	VOLUME	
	CUT	FILL
40		
30		
20		
10		
0		
10		
20		
30		
40		
18		
211		
20		
261 SHEET TOTAL		

CALC BY: C.A. DATE: 2-14-92
 WOO-75-3.01 (VARIOUS)
 OHIO
 FHWA REGION 5
 77
 116

END AREA	CUT	FILL	VOLUME
0.35	0	0	0
	0	139	0
	0	37	0
			174

ADD FOR END FULL DEPTH PAV'T
 STA. 59+00
 38
 37
 SHEET TOTALS

ADD FOR END FULL DEPTH PAV'T
 STA. 60+25

ADD FOR END FULL DEPTH PAV'T
 STA. 59+00

ADD FOR END FULL DEPTH PAV'T
 STA. 60+25

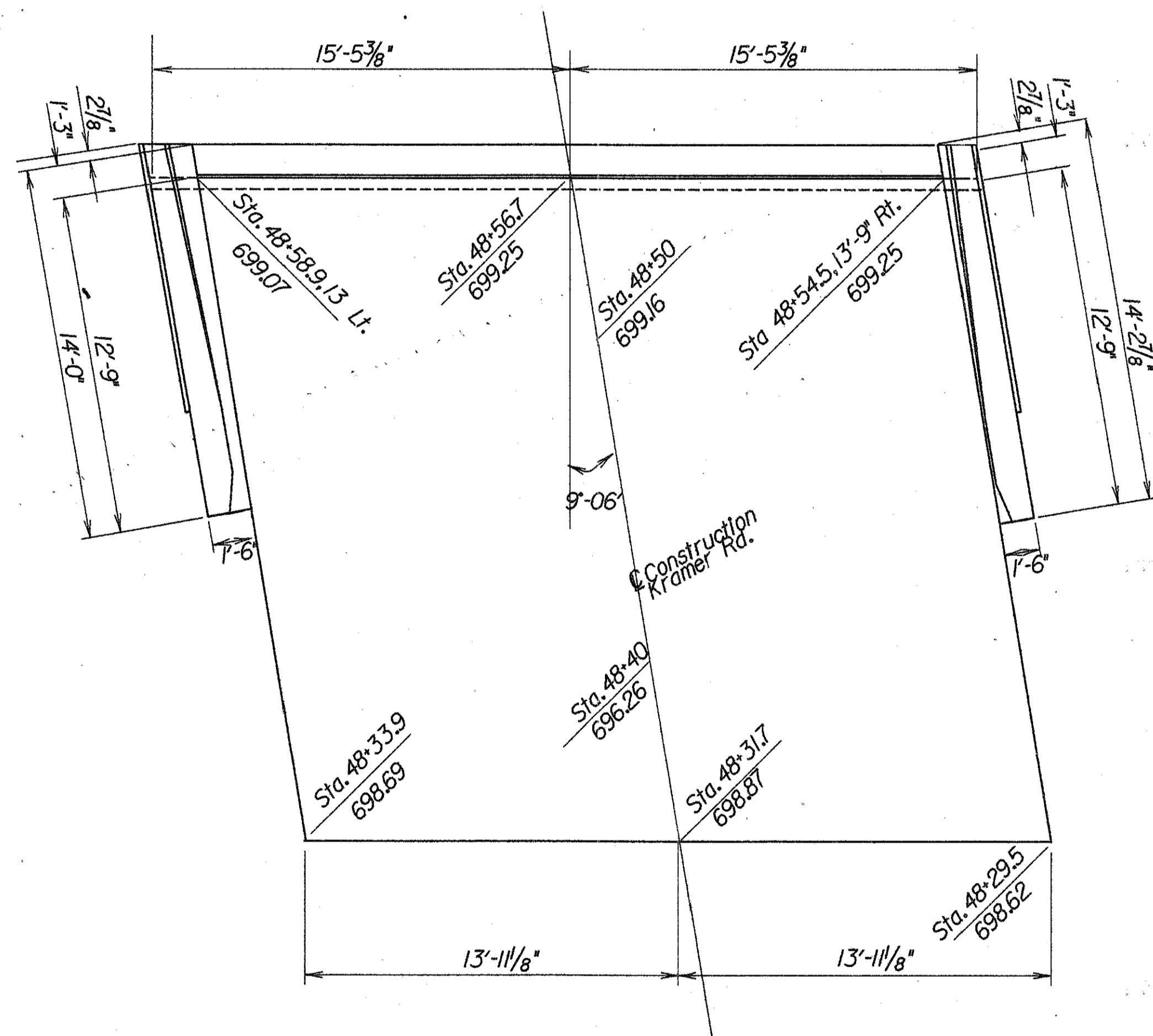
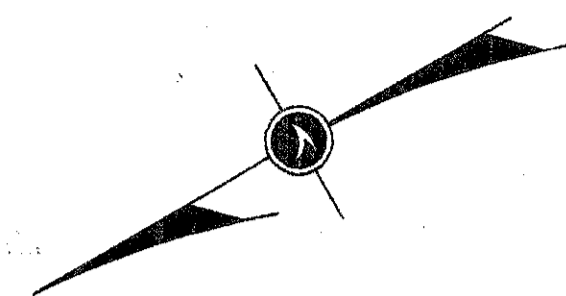
ADD FOR END FULL DEPTH PAV'T
 STA. 59+00

ADD FOR END FULL DEPTH PAV'T
 STA. 60+25

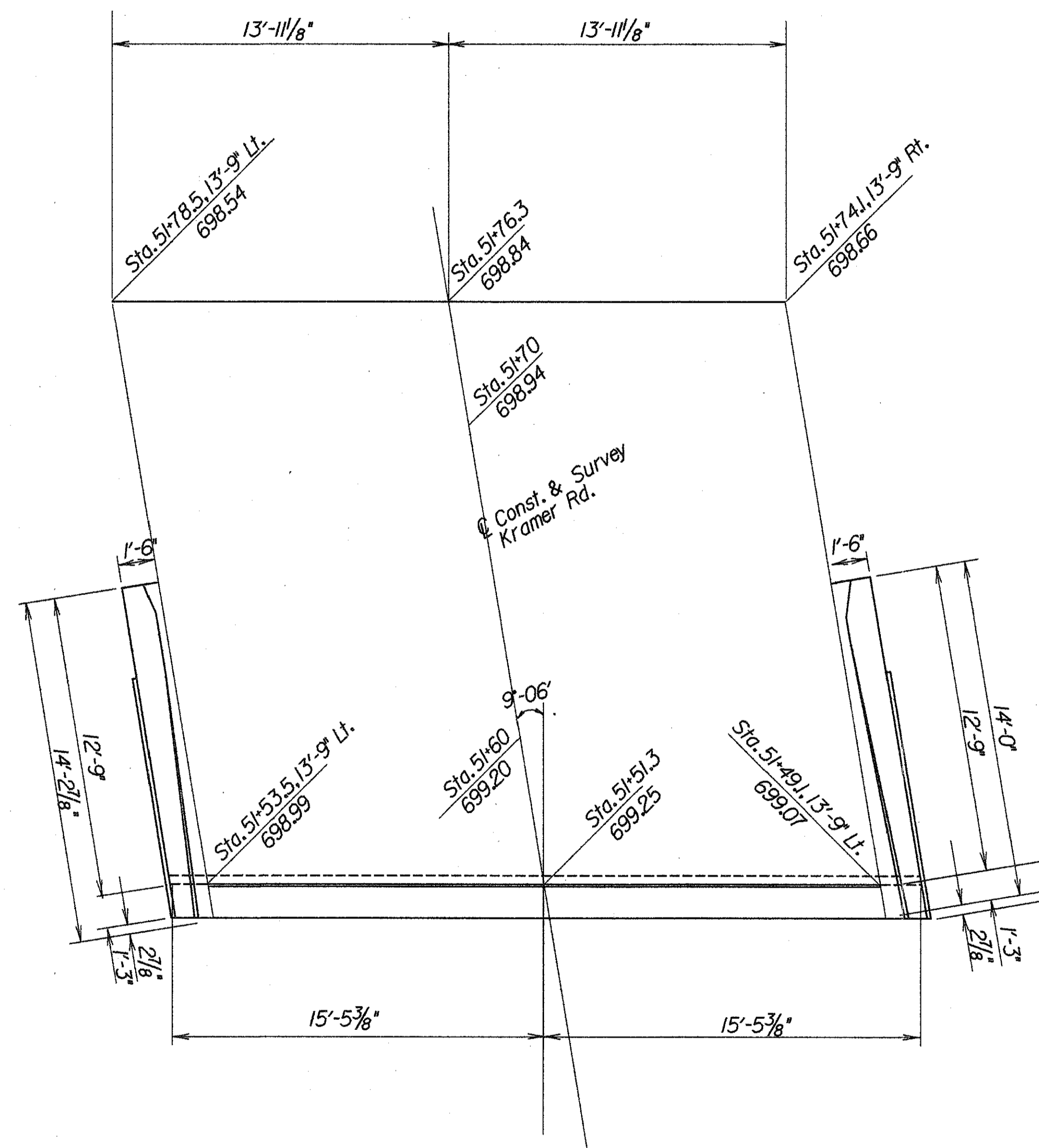
ADD FOR END FULL DEPTH PAV'T
 STA. 59+00

ADD FOR END FULL DEPTH PAV'T
 STA. 60+25

ADD FOR END FULL DEPTH PAV'T
 STA. 59+00



REAR APPROACH SLAB



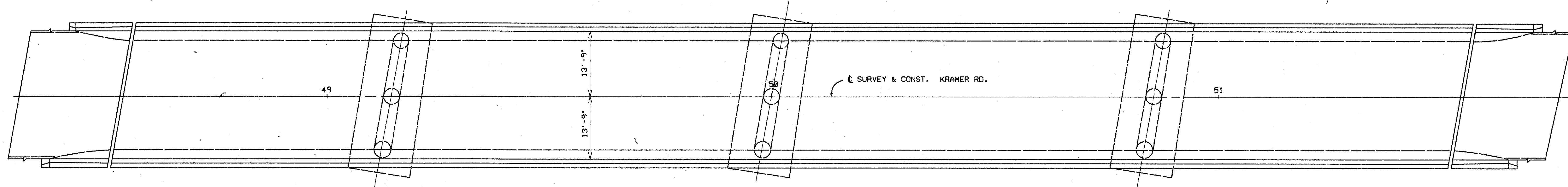
FORWARD APPROACH SLAB

FHWA REGION	STATE	PROJECT	
5	OHIO		

79
1/6

W00-75-3.01 (VARIOUS)

1
8



PLAN

PROPOSED WORK

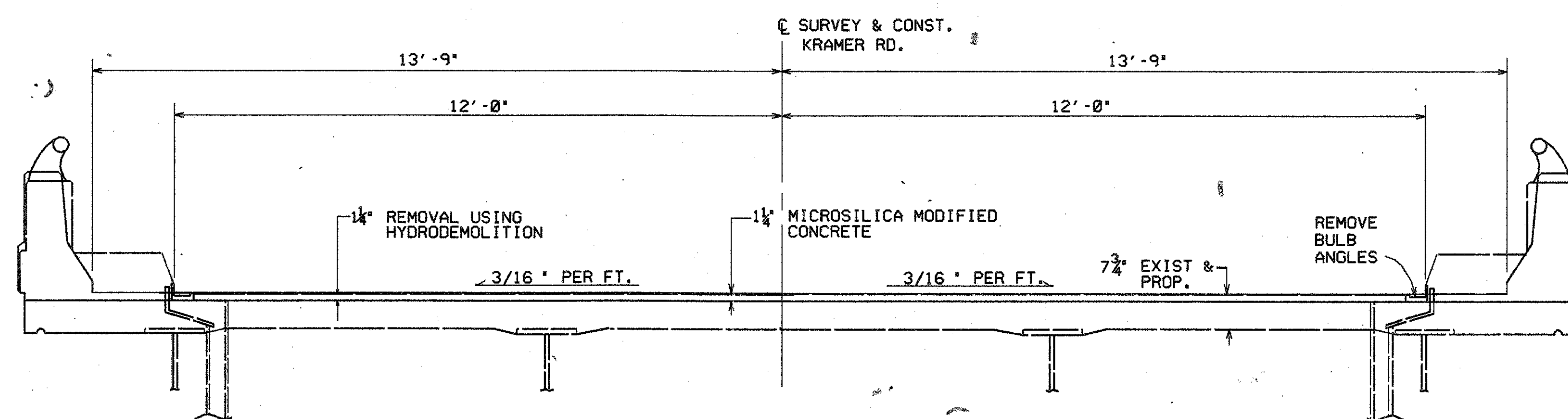
- 1) REMOVE 1 1/4" OF EXISTING DECK USING HYDRODEMOLITION
- 2) REMOVE EXISTING PARAPETS AND STRUCTURAL EXPANSION JOINTS
- 3) BUILD BRIDGE PARAPETS
- 4) REPLACE STRUCTURAL EXPANSION JOINTS WITH STRIP SEALS
- 5) OVERLAY DECK WITH 1 1/4" MICROSILICA
- 6) SEAL ABUTMENTS, PARAPETS AND WINGWALLS WITH EPOXY

EXISTING STRUCTURE DATA

TYPE: CONTINUOUS WELDED GIRDER WITH REINFORCED CONCRETE DECK
 REINFORCED CONCRETE PIER BENTS & STUB ABUTMENTS DECK
 SPANS: 58'-0", 83'-0", 83'-0", 66'-0" C/C BRGS
 ROADWAY: 24'-0" F/F CURBS
 LOADING: H-15
 SKEW: 9°06'-00" LEFT FORWARD
 WEARING SURFACE: 1" MONOLITHIC CONCRETE
 APPROACH SLABS: AS-1-54 (25' LONG) SPECIAL
 ALIGNMENT: TANGENT

PROPOSED STRUCTURE DATA

ROADWAY: 27'-6" FACE TO FACE OF PARAPETS
 WEARING SURFACE: 1 1/4" MICROSILICA



TRANSVERSE SECTION

ZFA1: [200.210]W75KRSP.DGN

STATE OF OHIO
 DEPARTMENT OF TRANSPORTATION
 DISTRICT 2 DESIGN & PLANNING OFFICE

1/8

GENERAL PLAN AND TRANSVERSE SECTION
 BRIDGE NO. W00-75-1230
 KRAMER ROAD

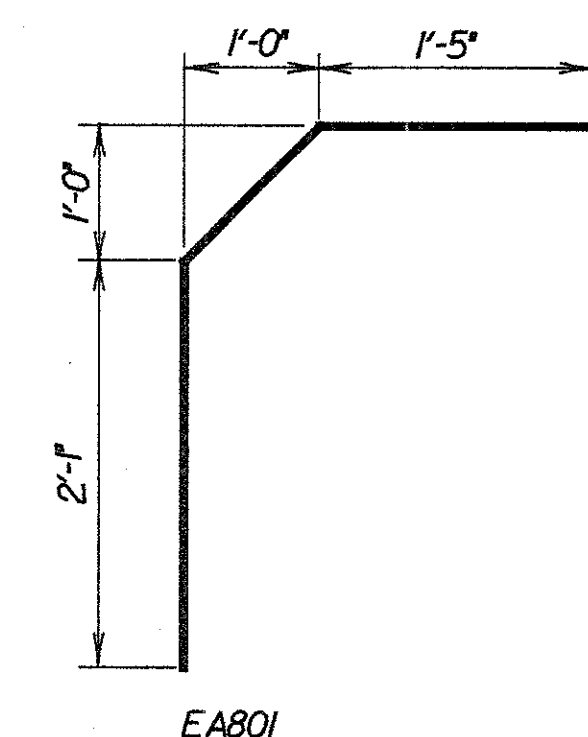
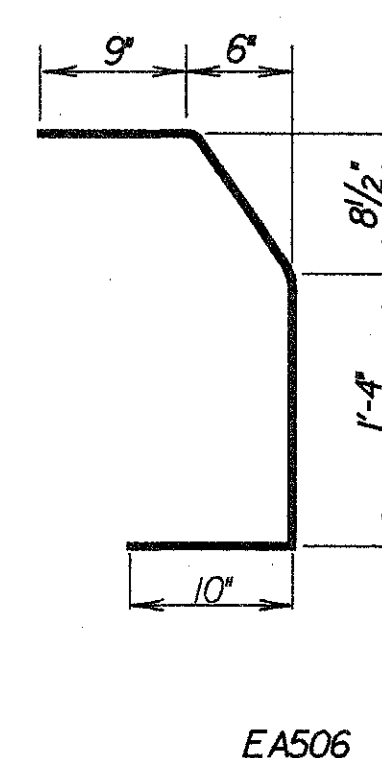
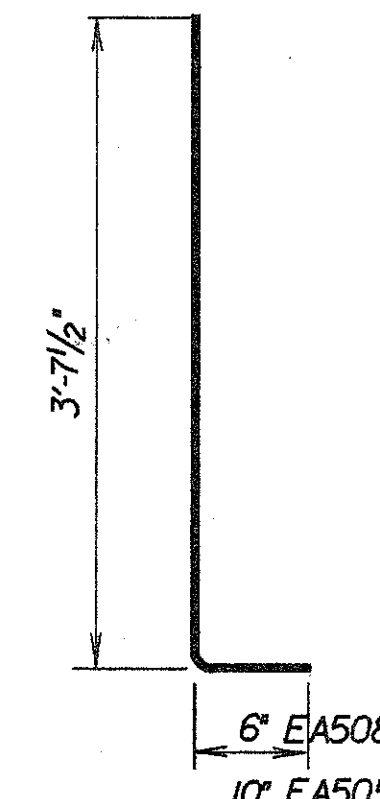
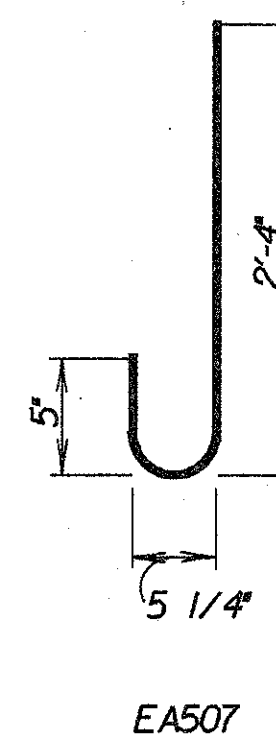
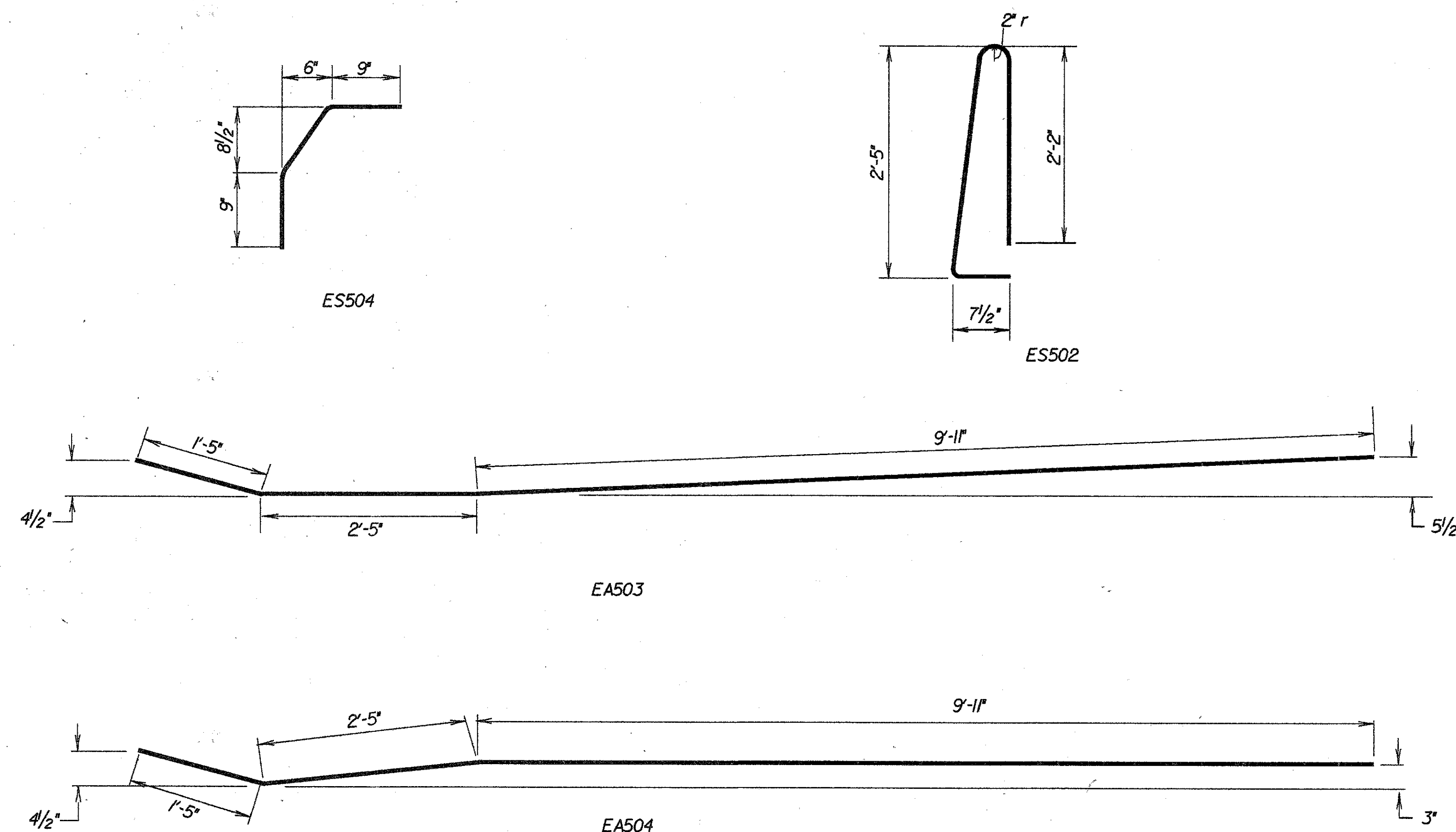
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
MTG			GG	6/22/02	

REINFORCING STEEL LIST

BENDING DIAGRAMS

MARK	NO. IN STRUCTURE			LENGTH	WEIGHT (LBS.)	SHAPE	LAP LENGTH	DOWEL HOLES (LIN. FT.)
	LT.	RT.	TOTAL					
<i>Superstructure</i>								
ES501	44	44	88	28'-0"	2570	S	1'-8"	
ES502	218	218	436	5'-3"	2387	B		
ES503	218	218	436	1'-6"	682	S		182
ES504	218	218	436	2'-4"	1061	B		182
ES505	48	48	96	15'-6"	1352	S		
ES506	88	88	176	4'-6"	826	S		
ES507	4	4	8	13'-0"	108	S		
Totals for Superstructure					8986			364

MARK	NO. IN ABUTMENT			LENGTH	WEIGHT (LBS.)	SHAPE	LAP LENGTH	DOWEL HOLES (LIN. FT.)
	LT.	RT.	TOTAL					
<i>Abutments</i>								
EA501	16			16'-0"	267	S	1'-8"	
EA502	10	10	20	13'-8"	285	S		
EA503	4	4	8	13'-9"	115	S		
EA504	2	2	4	13'-9"	57	B		
EA505	22	22	44	4'-4"	199	B		
EA506	14	14	28	3'-8"	107	B		
EA507	14	14	28	2'-11"	85	B		
EA508	4	4	8	4'-0"	33	B		
EA801	40			4'-11"	525	B		80
Totals for Abutments					1673			80



*E' in prefix designates epoxy coated

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BUREAU OF LOCATION AND DESIGN						2 / 8
REINFORCING STEEL LIST AND DETAILS BRIDGE NO. W00-75-1230 KRAMER RD.						
DESIGNED MTG	DRAWN	TRACED	CHECKED GG	REVIEWED LCL	DATE 7/1/92	REVISED

ZFA1:200210JW75KRSS1.DGN

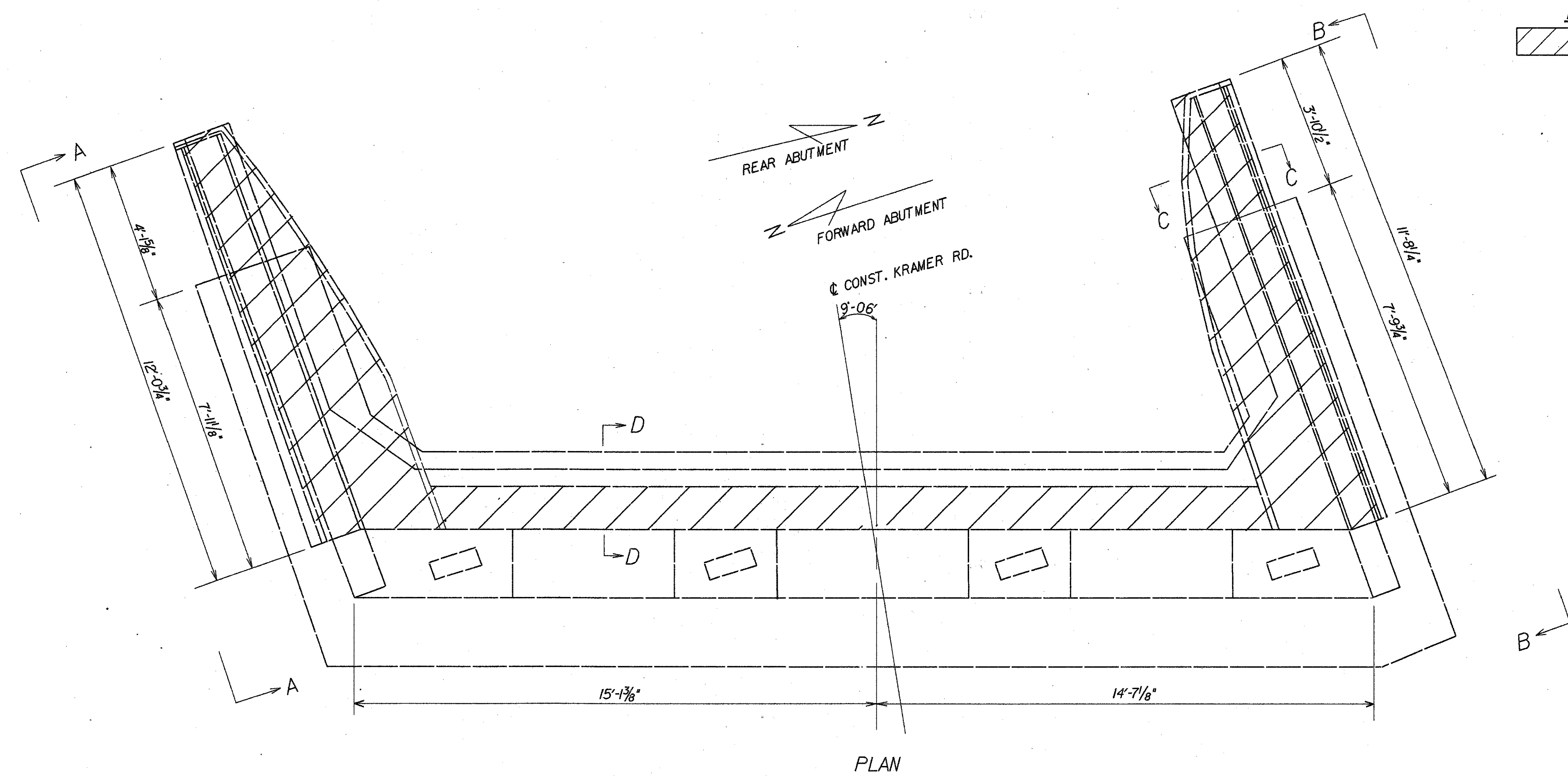
FHW REGION	STATE	PROJECT
5	OHIO	

81
116

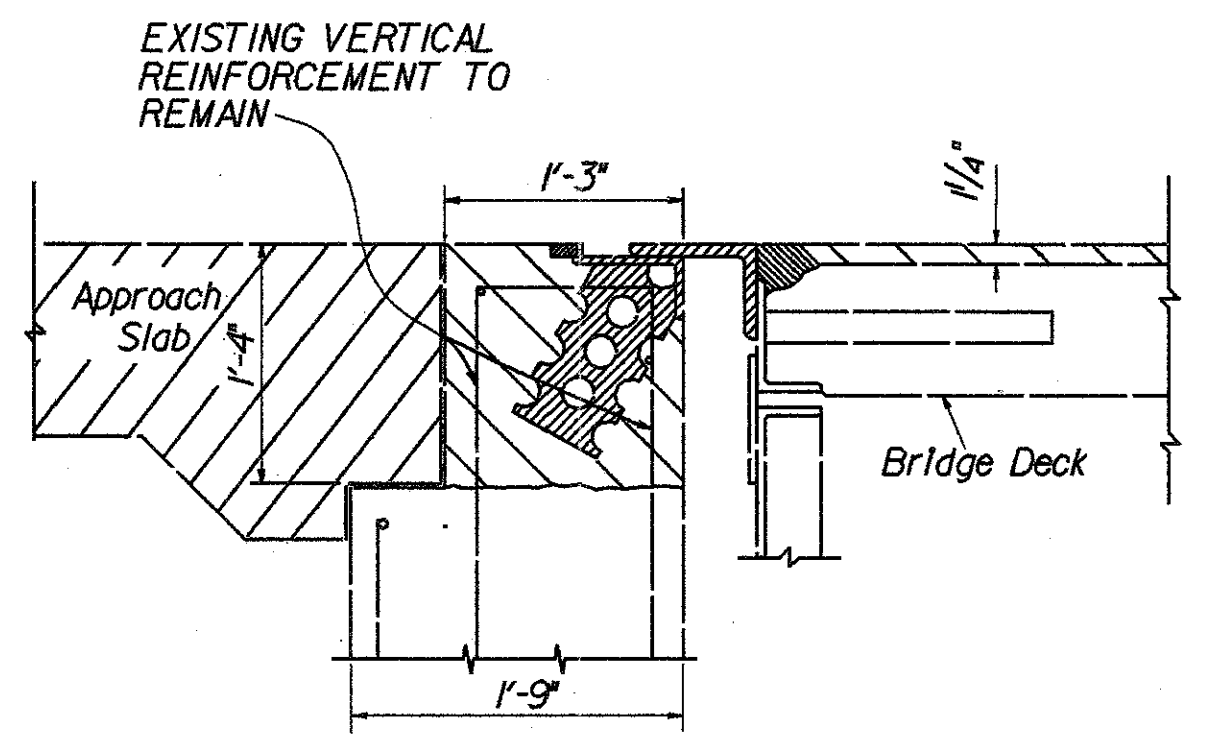
W00-75-3.01 (VARIOUS)

3
8

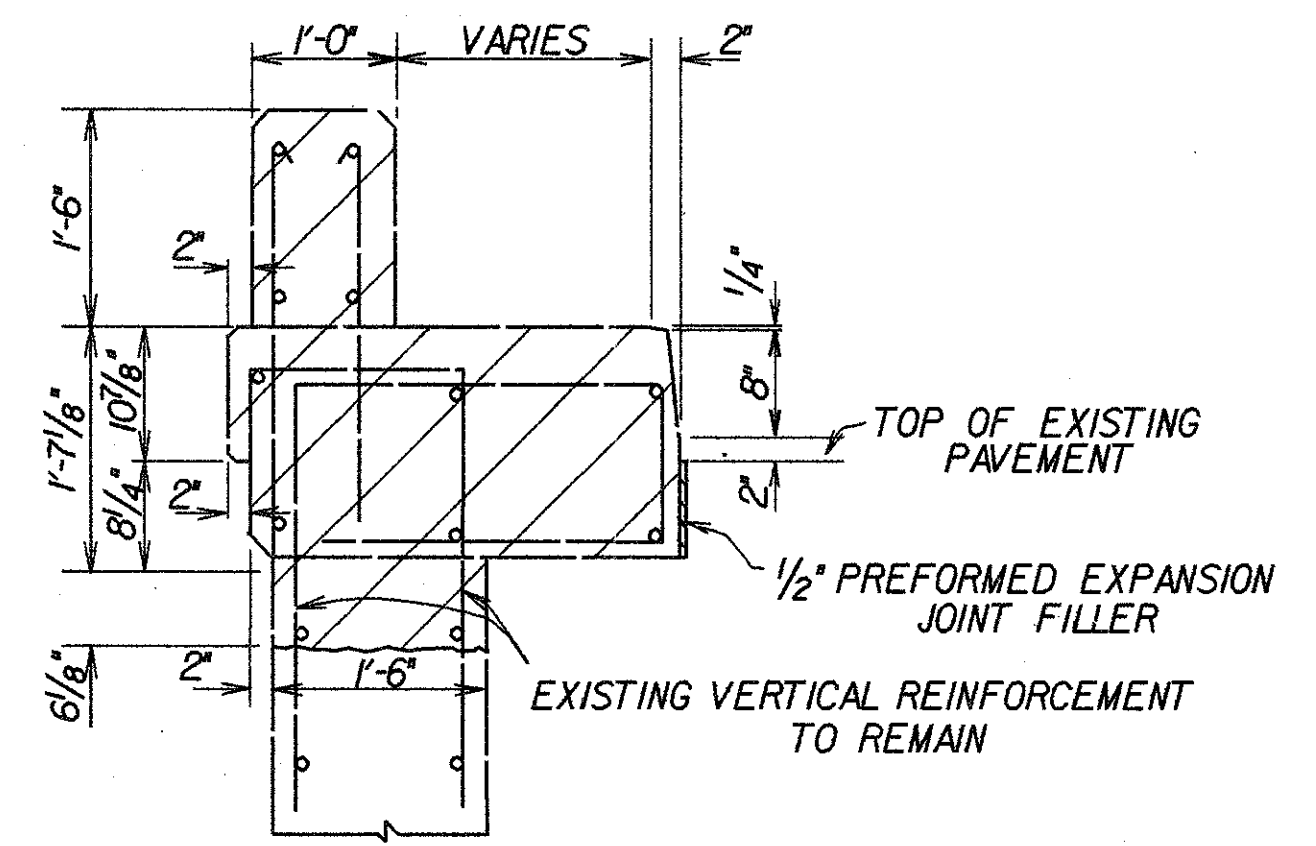
LEGEND
 Removal Limits



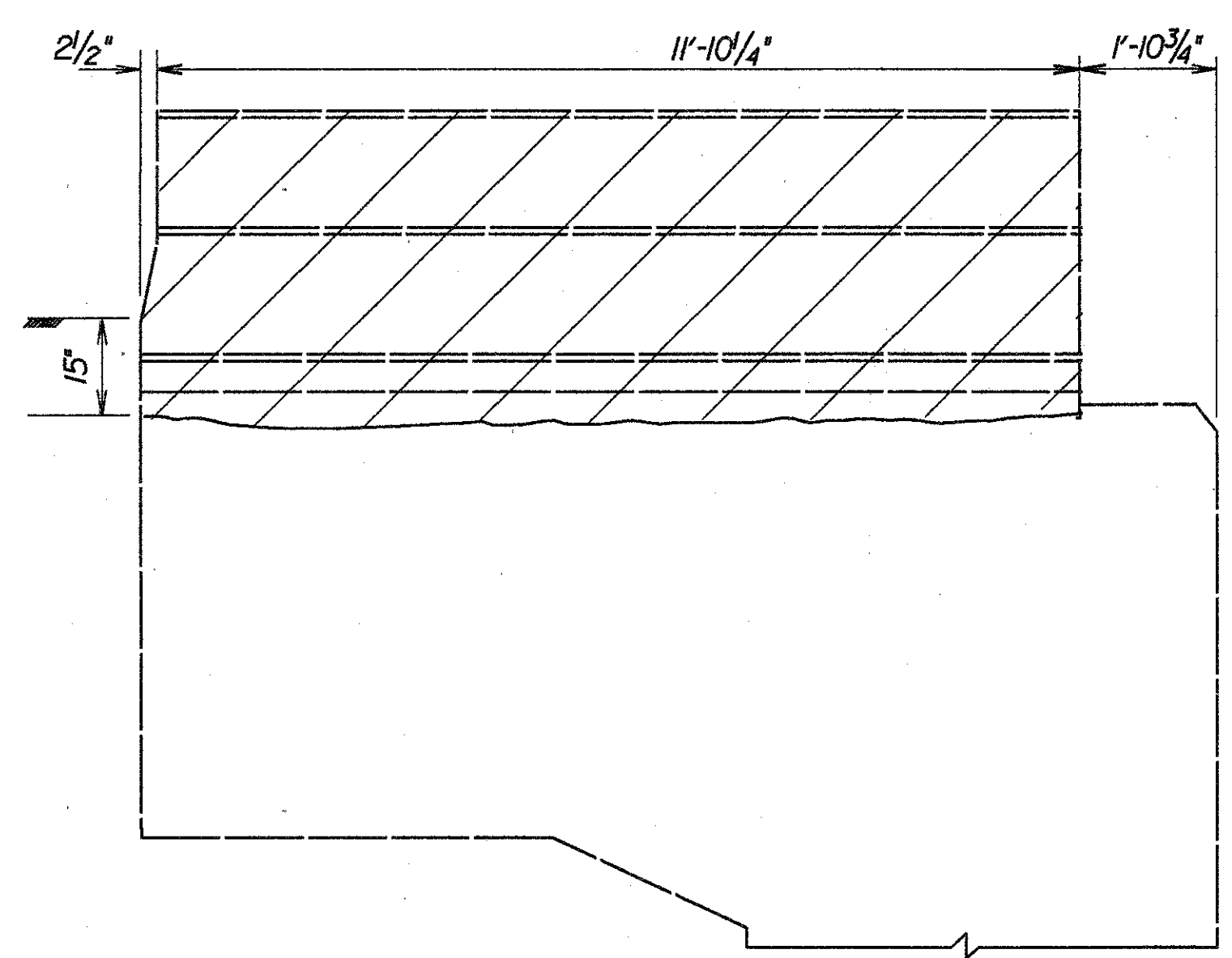
PLAN



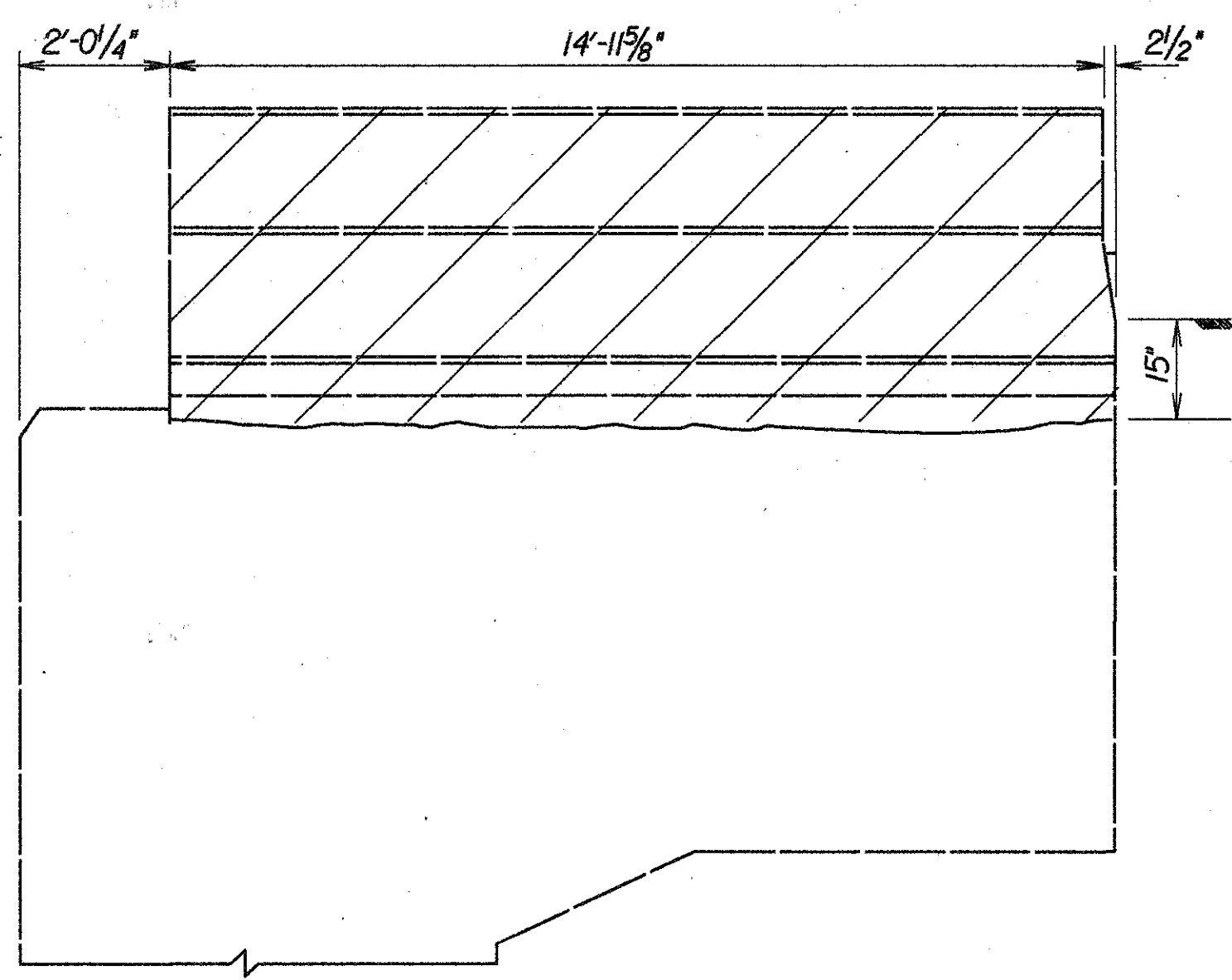
SECTION D-D



SECTION C-C



WINGWALL ELEVATION
VIEW A-A



WINGWALL ELEVATION
VIEW B-B

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES						3 / 8
EXISTING ABUTMENT AND WINGWALL REMOVAL DETAILS BRIDGE NO. W00-75-1230 KRAMER ROAD						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MTG			GG	ACC	7/14/92	

ZFAH200.210JW75KRSDI.DGN

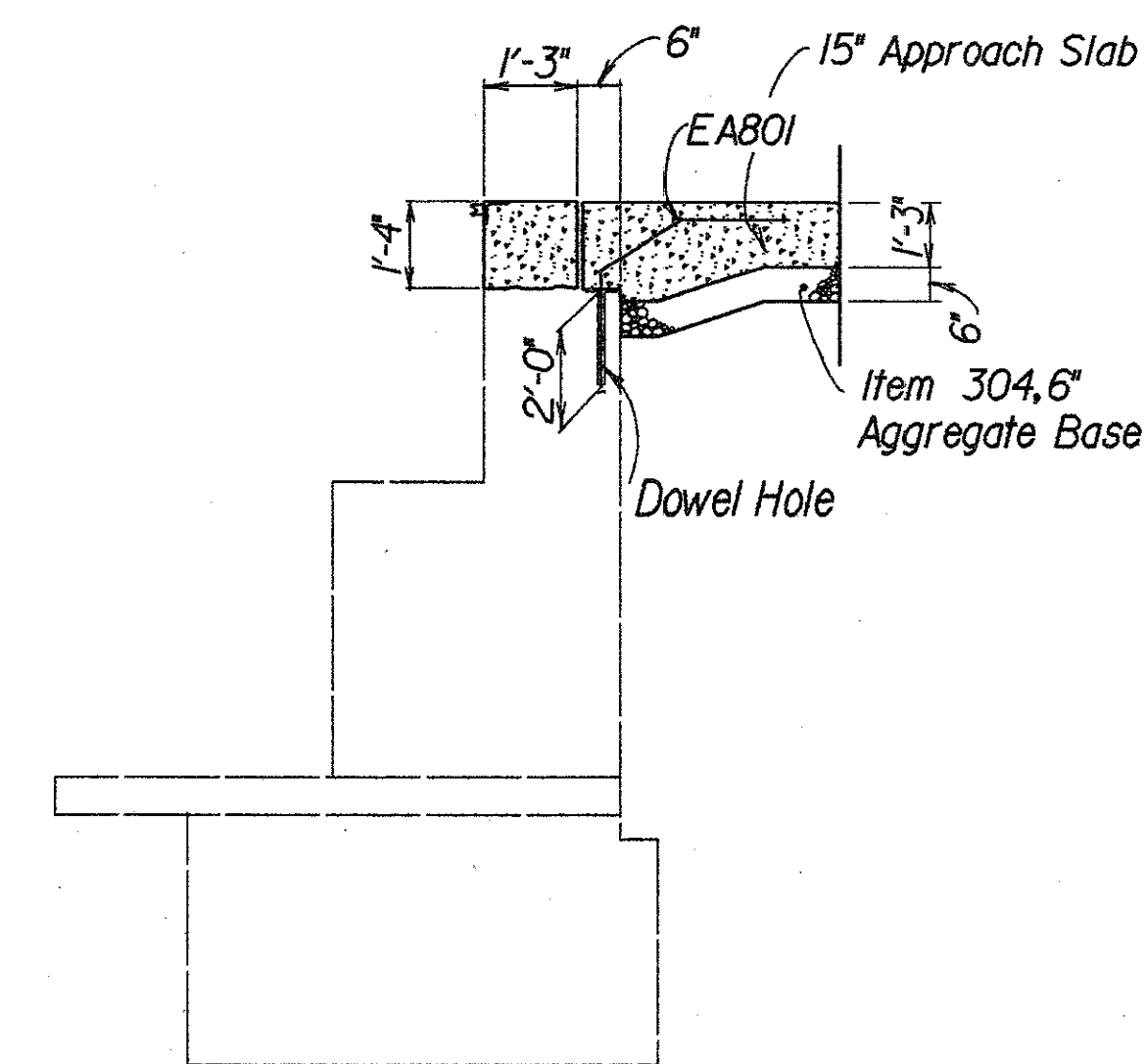
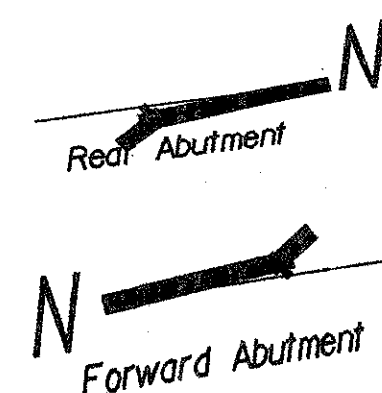
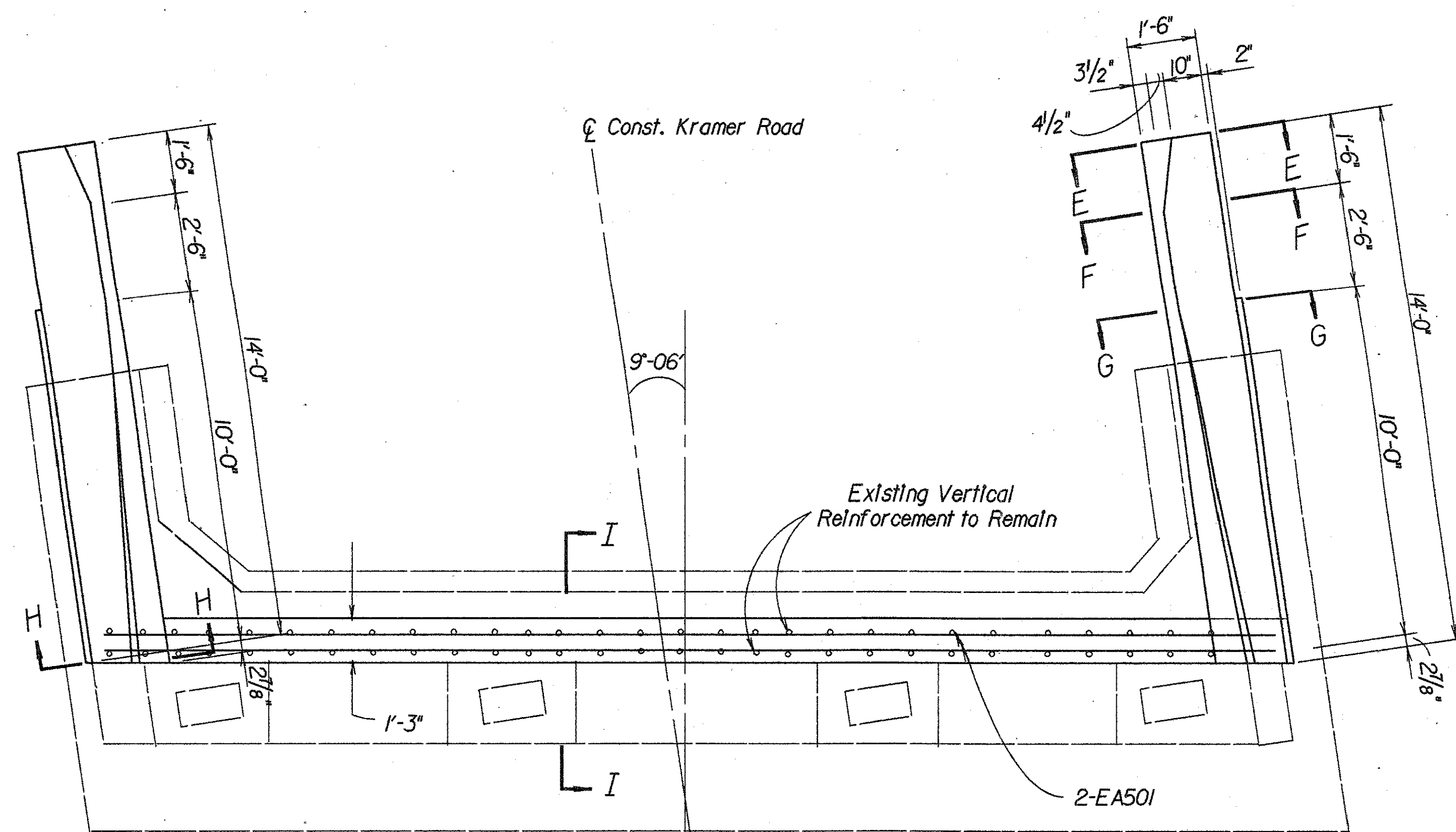
FYMA REGION	STATE	PROJECT
5	OHIO	

82
116

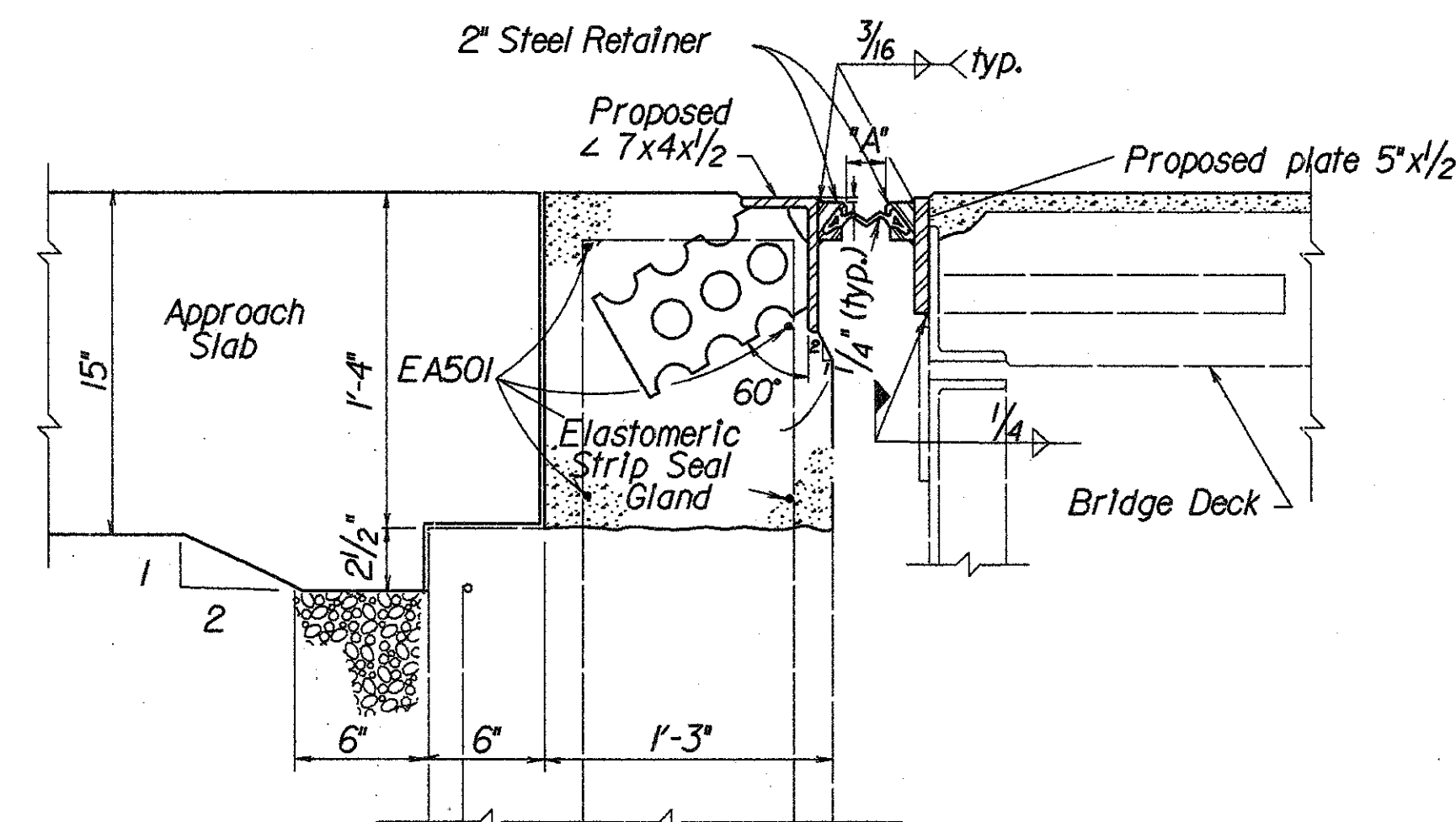
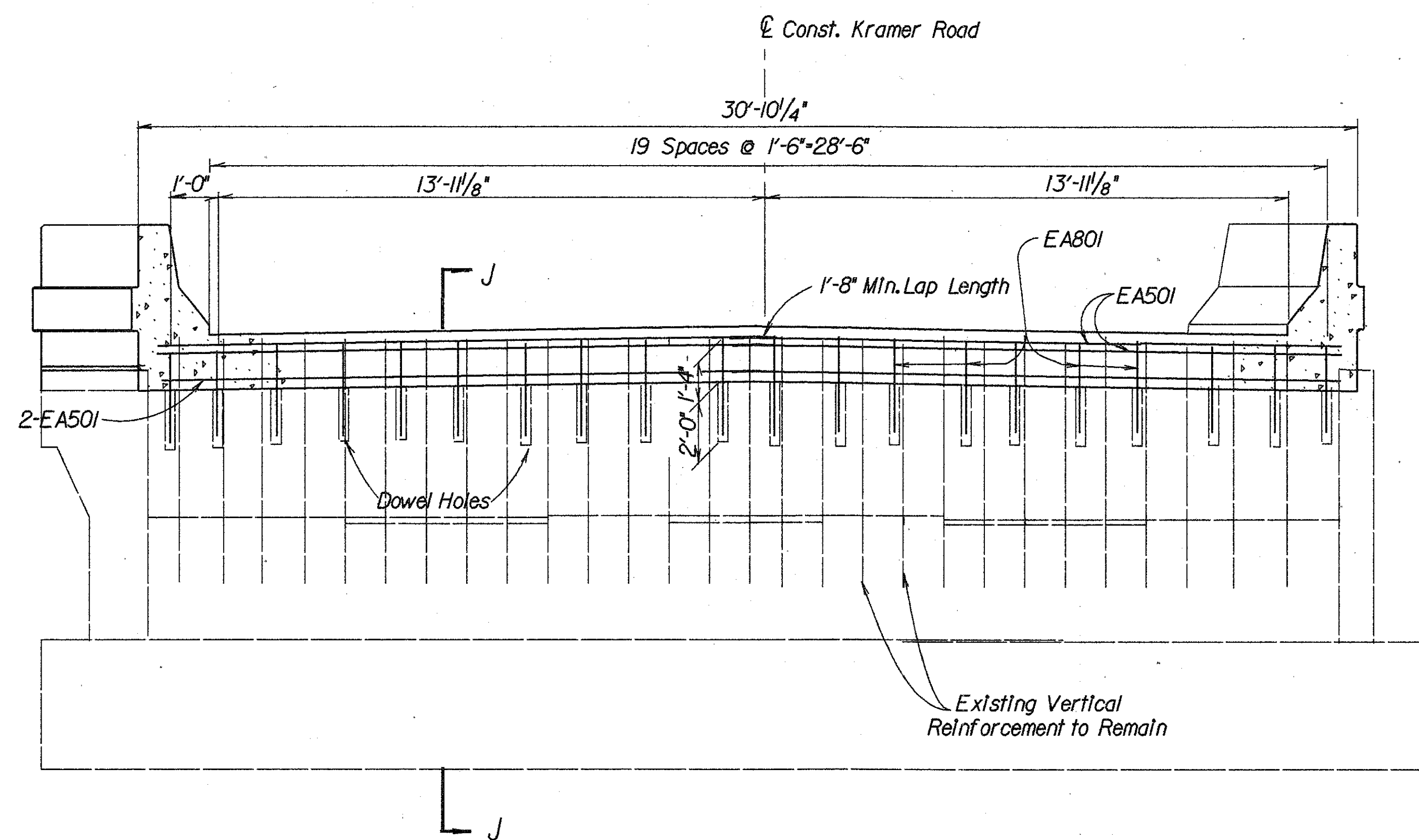
W00-75-3.0(VARIOUS)

4
8

See Sht. No. 6/8 for Sections E-E, F-F, G-G, and H-H

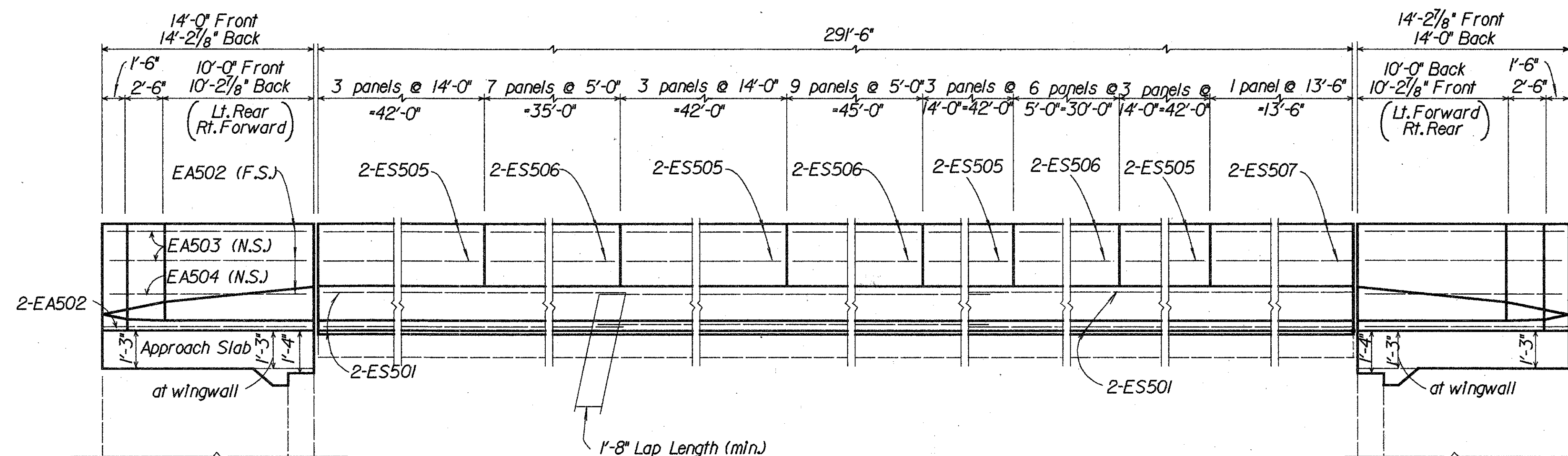


NOTE: For Additional Expansion Joint Details See Std. Dgn. EXJ-4-87.

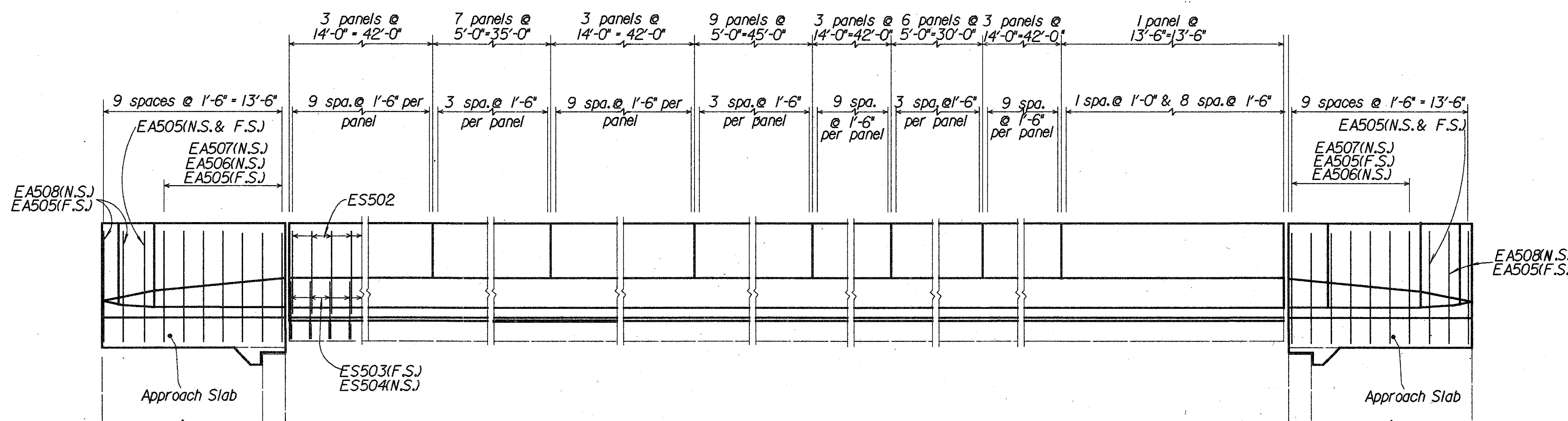


ZF A4:200,230JM75KRSD5.DGN

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES							4 / 8
EXPANSION JOINT, AS PER PLAN B, ABUTMENT AND WINGWALL REHABILITATION DETAILS BRIDGE NO. W00-75-1230 KRAMER ROAD							
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED	
MTG			GG	LCL	7/14/82		



Elevation
Horizontal reinforcement in Deflector Parapet



Elevation
Vertical reinforcement in Deflector Parapet

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES							5 / 8
PARAPET DETAILS BRIDGE NO. W00-75-1230 KRAMER ROAD							
DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	REVISED	
MTG			GG	LCC	7/1/92		

ZFA1:2002101W75KRS03.DGN:1

FHWA REGION	STATE	PROJECT
5	OHIO	

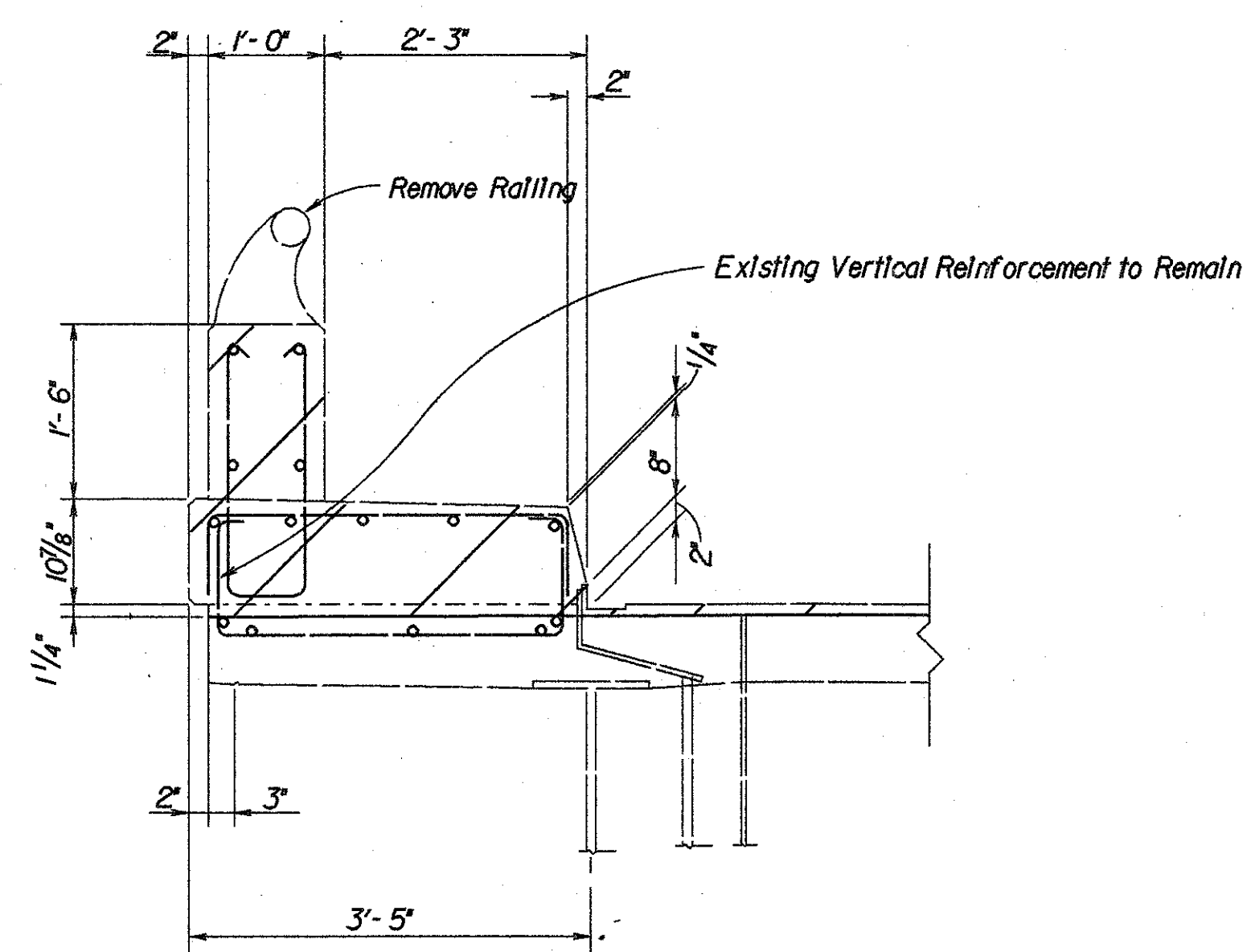
84
116

WOO-75-3.01 (VARIOUS)

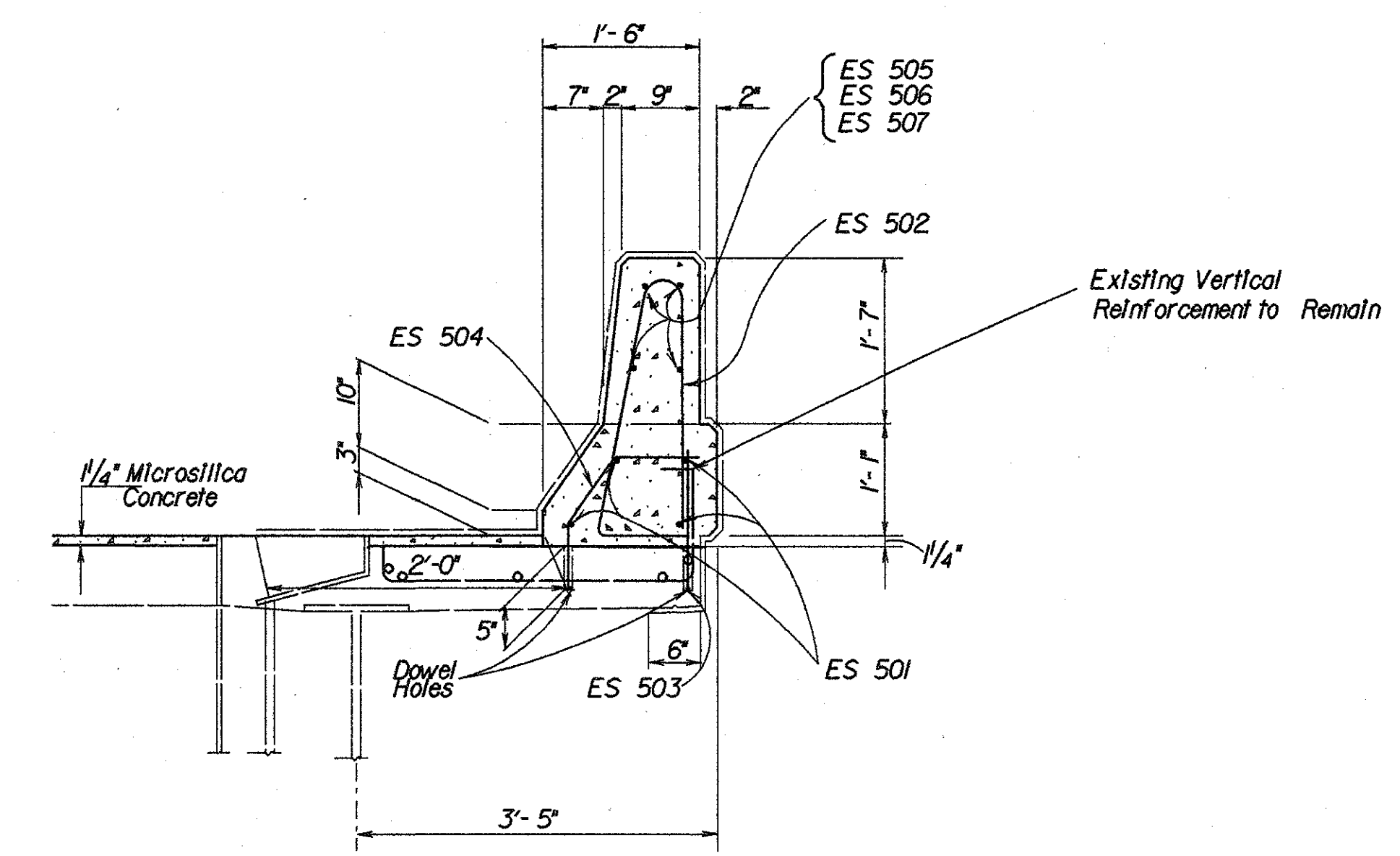
6
8

LEGEND

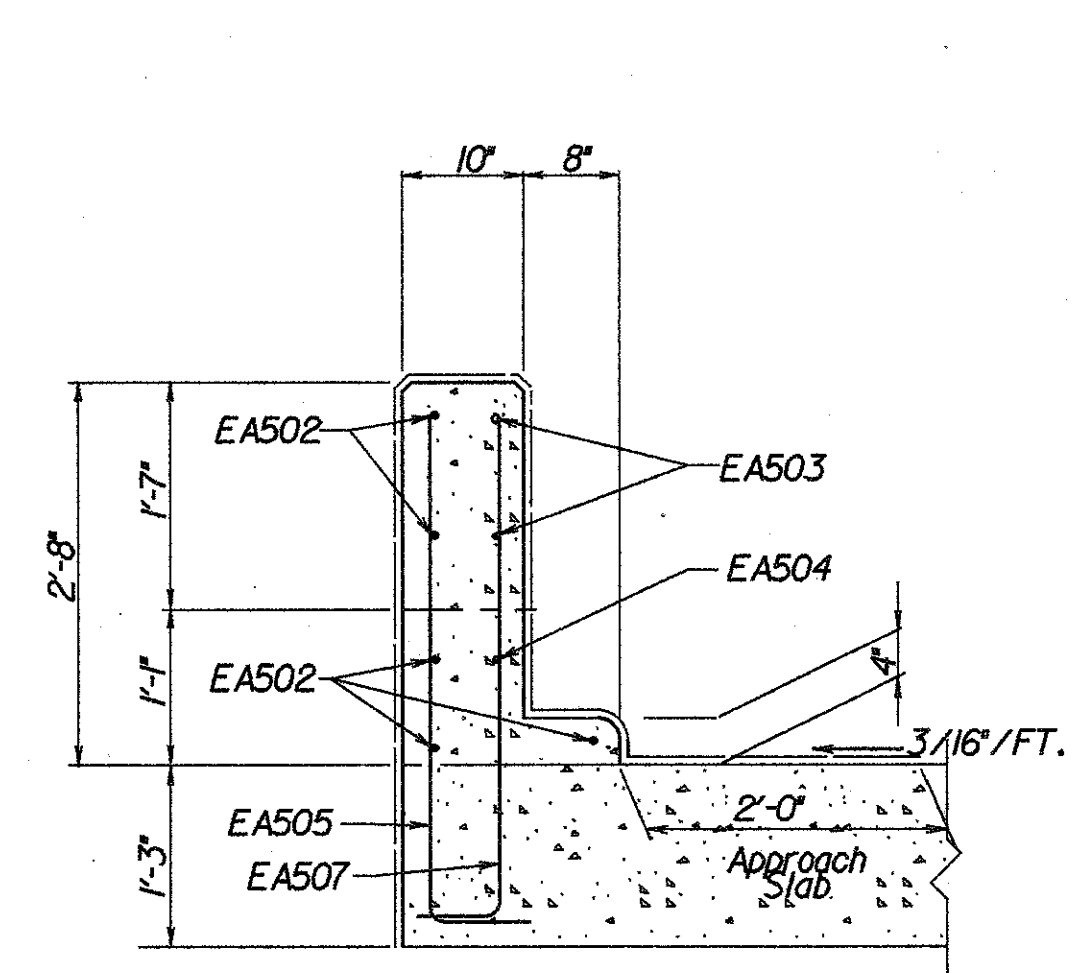
- Limits for Sealing of Concrete Surfaces
- ▨ Removal Limits



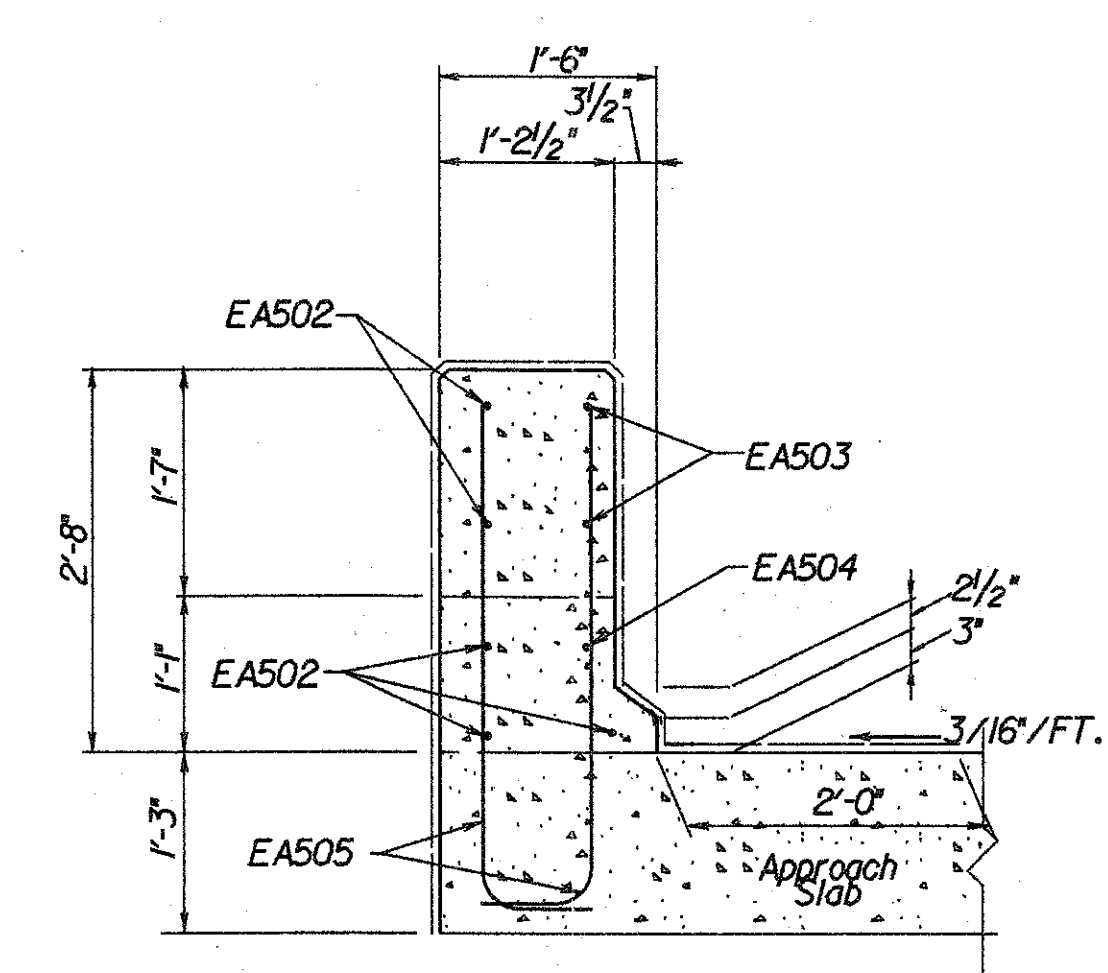
CROSS SECTION OF EXISTING PARAPET ON STRUCTURE



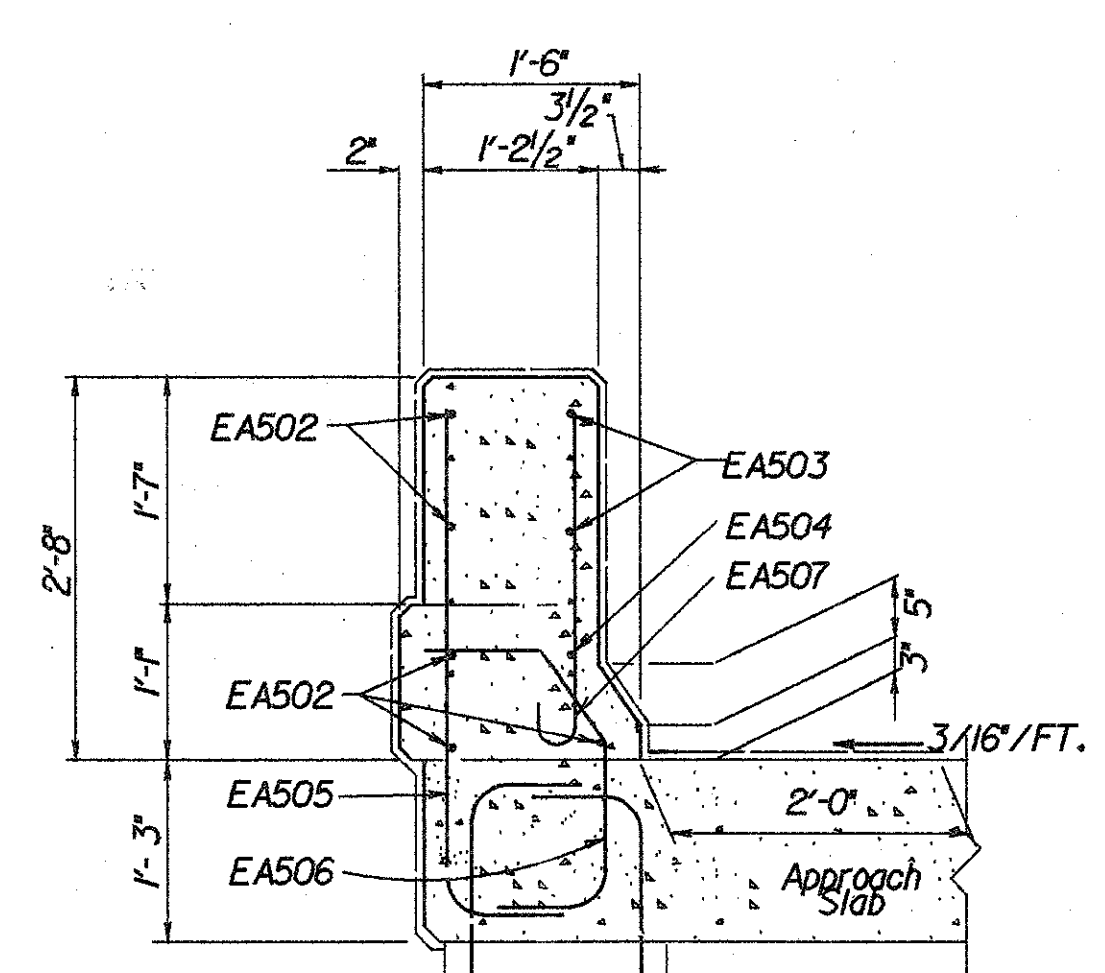
CROSS SECTION OF PROPOSED PARAPET ON STRUCTURE



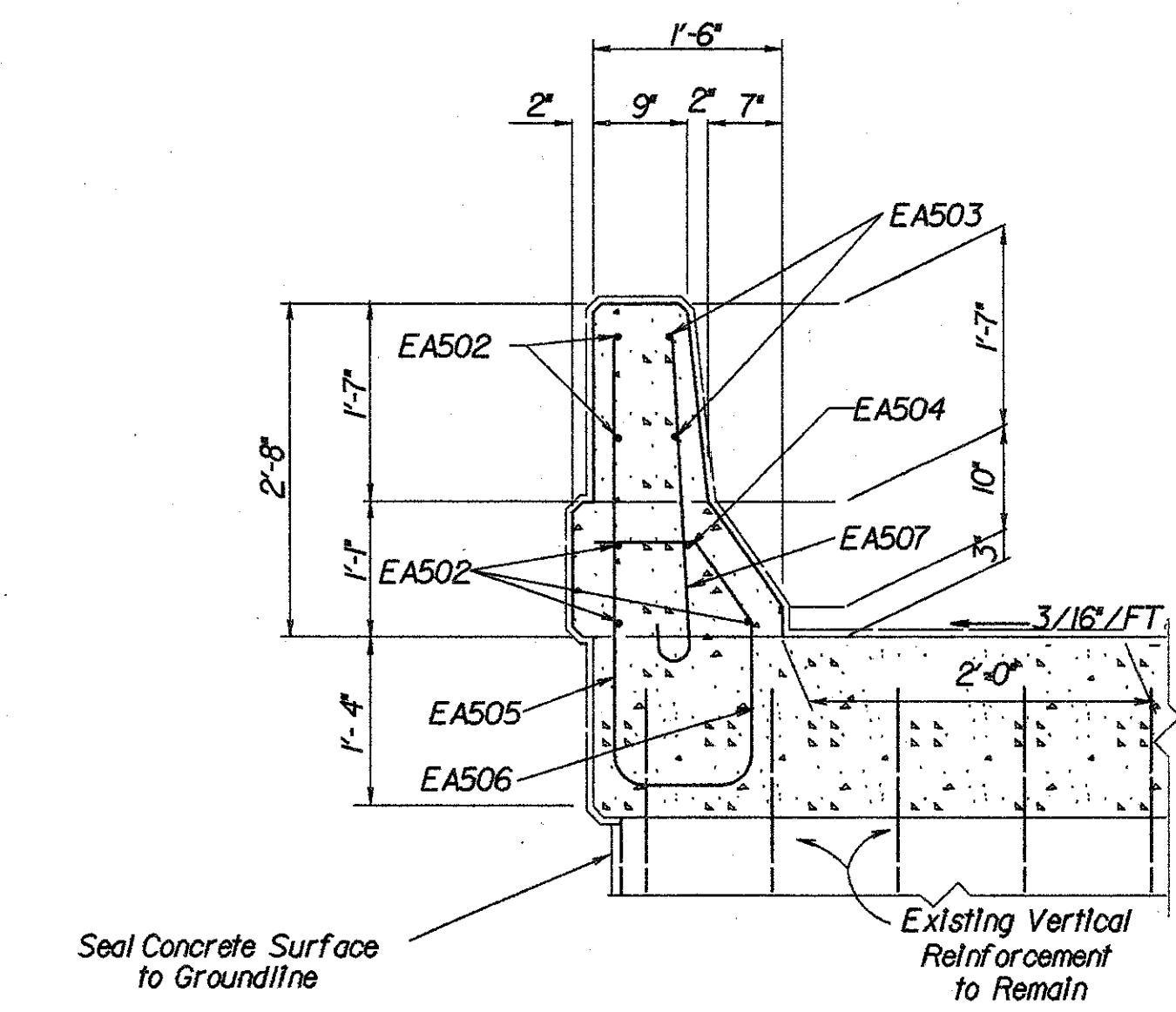
SECTION E-E



SECTION F-F



SECTION G-G



SECTION H-H

ZFA1E2002101W75KRS04.DGN

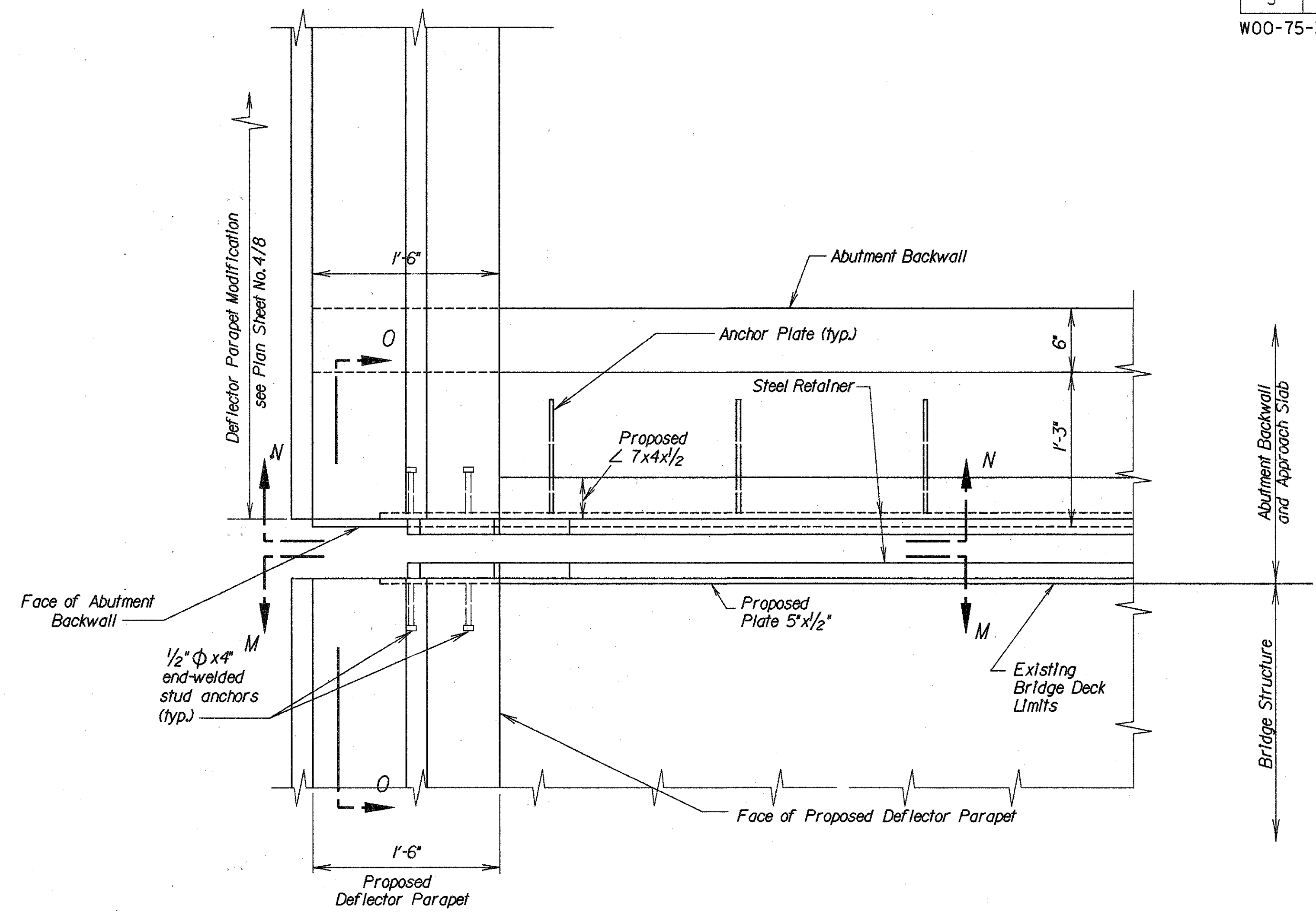
STATE OF OHIO DEPARTMENT OF TRANSPORTATION BUREAU OF LOCATION AND DESIGN						6 / 8
PARAPET DETAILS BRIDGE NO. WOO-75-1230 KRAMER ROAD						
DESIGNED MTG	DRAWN	TRACED	CHECKED GG	REVIEWED DATE LCL 7/14/92	REVISED	

STRIP SEAL INFORMATION

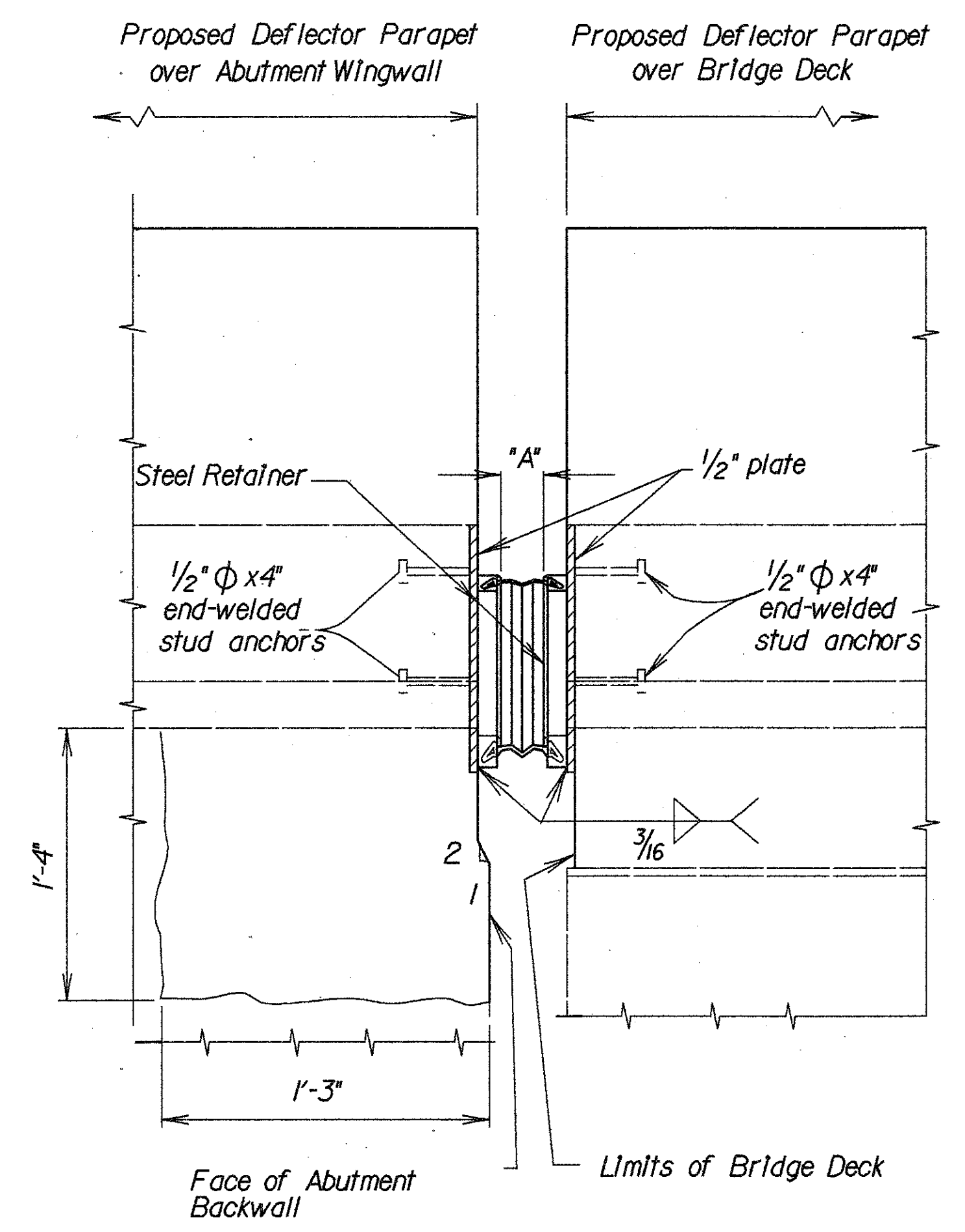
TEMPERATURE, °F	DIMENSION "A", INCHES	
	REAR ABUTMENT	FORWARD ABUTMENT
30	2	2
40	1 7/8	1 7/8
50	1 3/4	1 3/4
60	1 5/8	1 5/8
70	1 1/2	1 1/2
80	1 3/8	1 3/8
90	1 1/4	1 1/4
REQUIRED SEAL SIZE	3"	3"

STRIP SEAL DATA

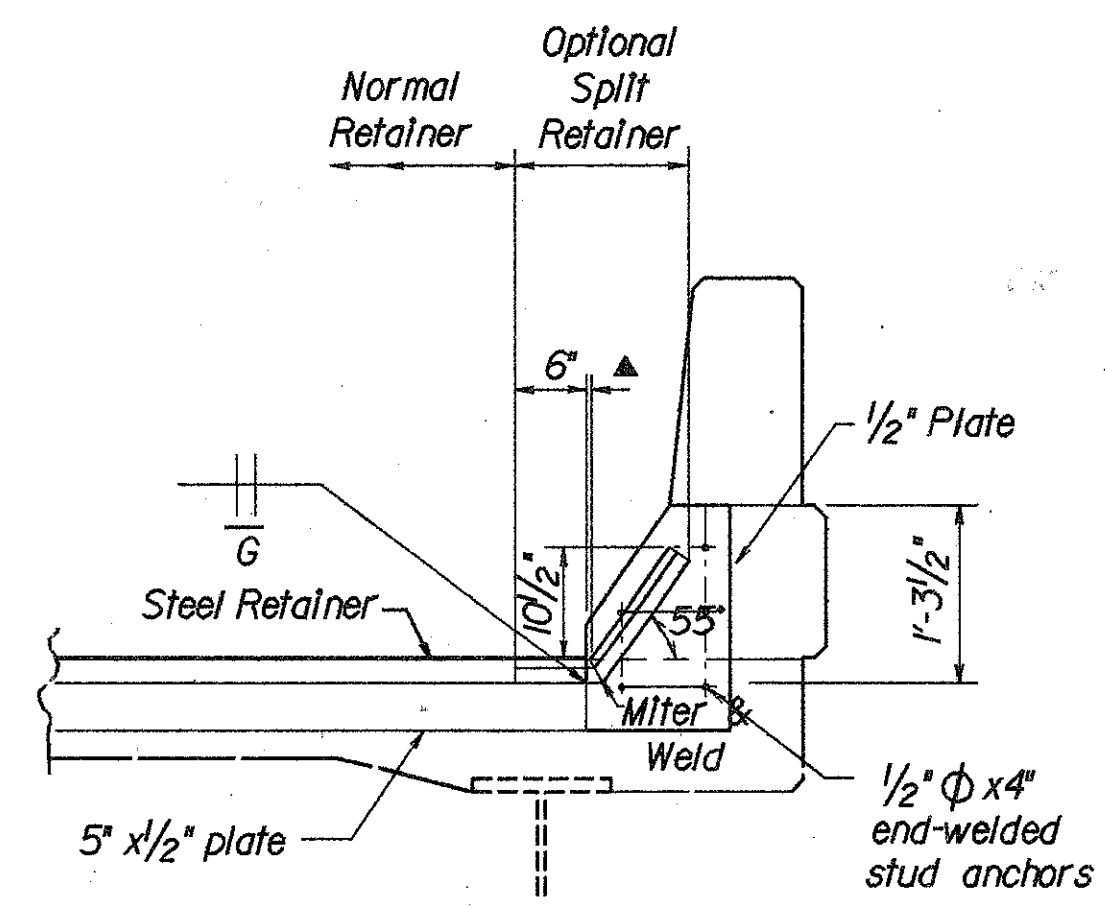
SEAL SIZE	THE D.S. BROWN COMPANY	STRUCTURAL ACCESSORIES INC.	WATSON-BOWMAN & ACME CORP.
3"	300 L	40-SEQ	SE-300



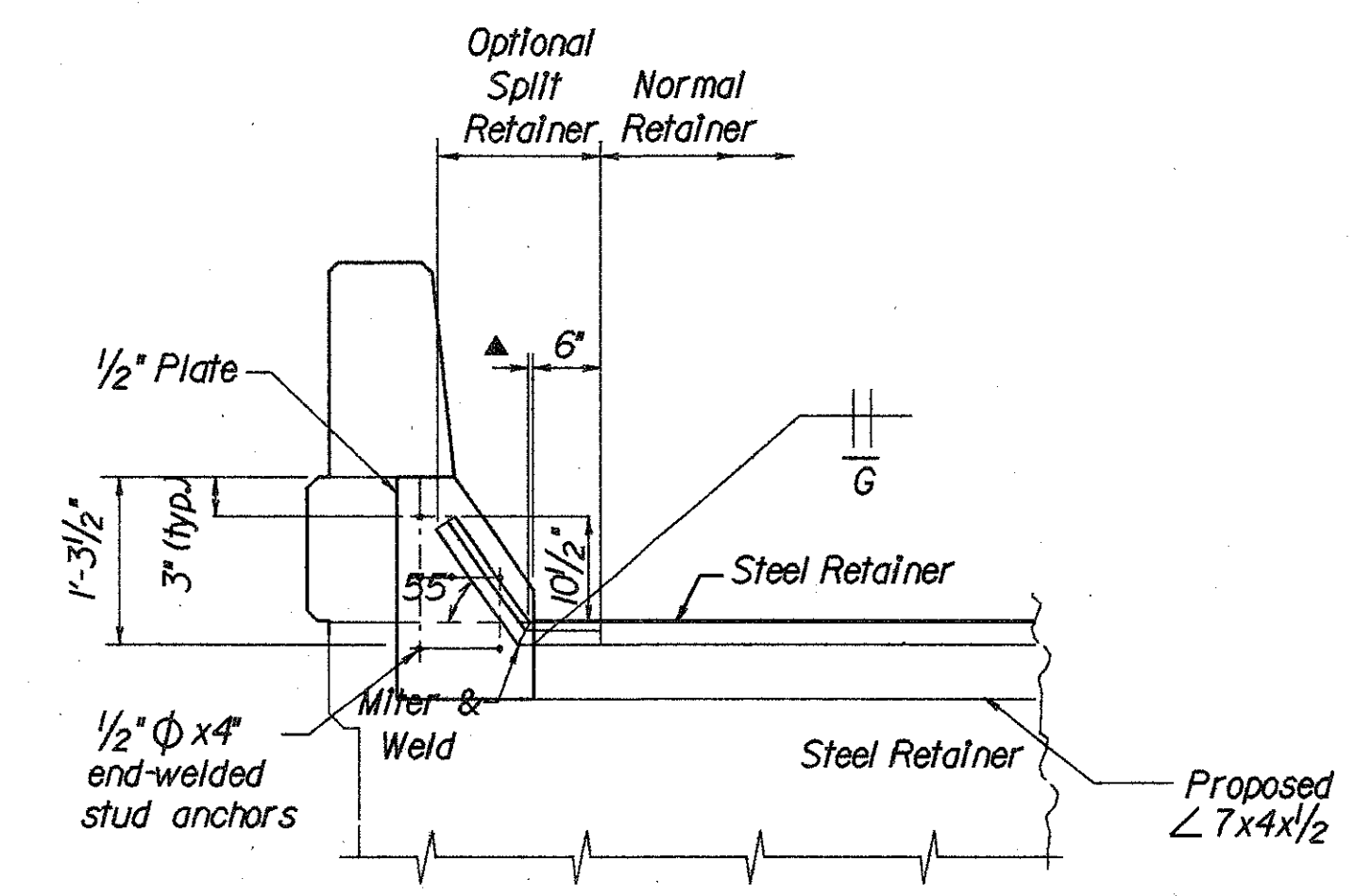
~PLAN VIEW~



~SECTION O-O~



▲ 0" min./1/2" max. to breakpoint
~SECTION M-M~



▲ 0" min./1/2" max. to breakpoint
~SECTION N-N~

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES						7 / 8
EXPANSION JOINT, AS PER PLAN B DETAILS						
BRIDGE NO. W00-75-1230						
KRAMER ROAD						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MTG			GG	LCL	7/14/82	

ZFA1:12002101W75KRS02 .DGN:1

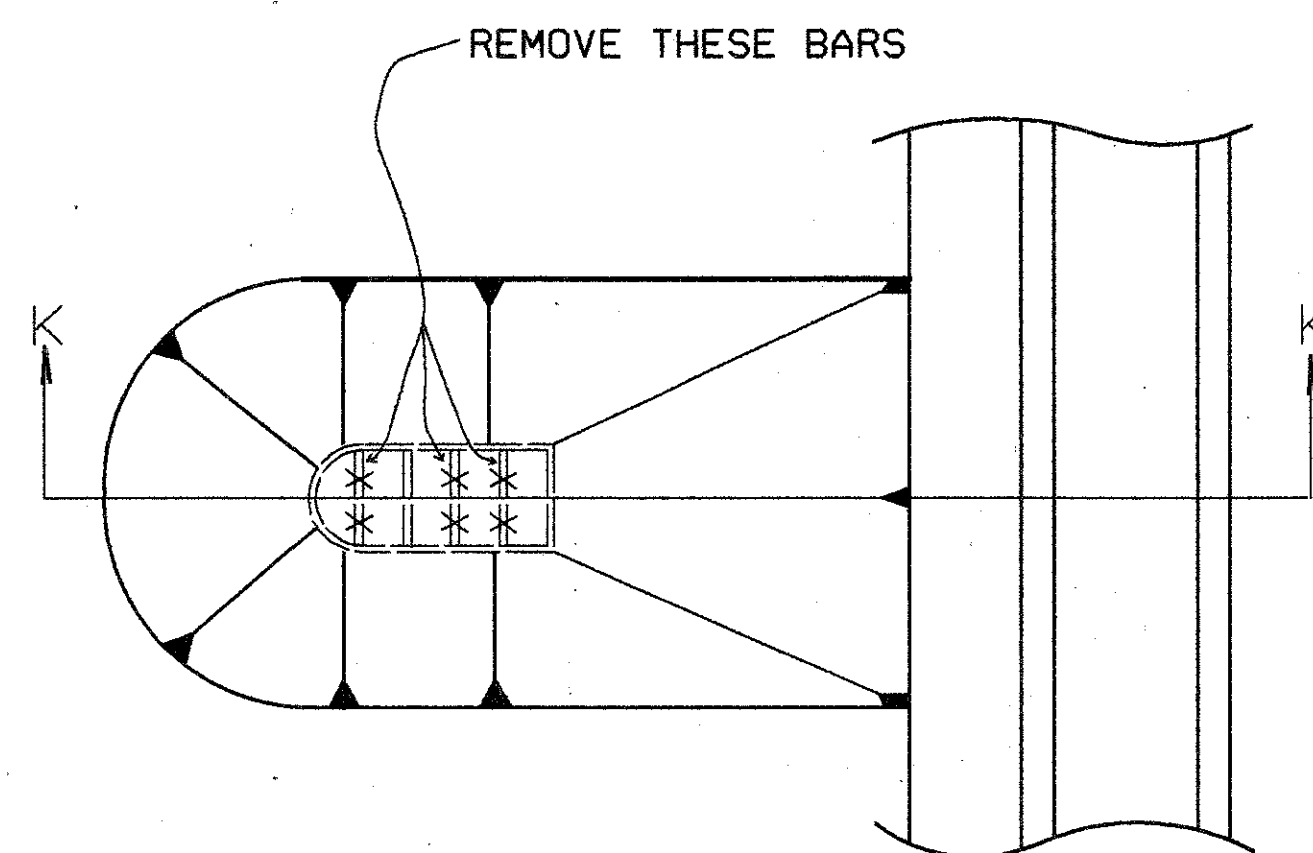
FWA REGION	STATE	
5	OHIO	

86
116

W00-75-3.01 (VARIOUS)

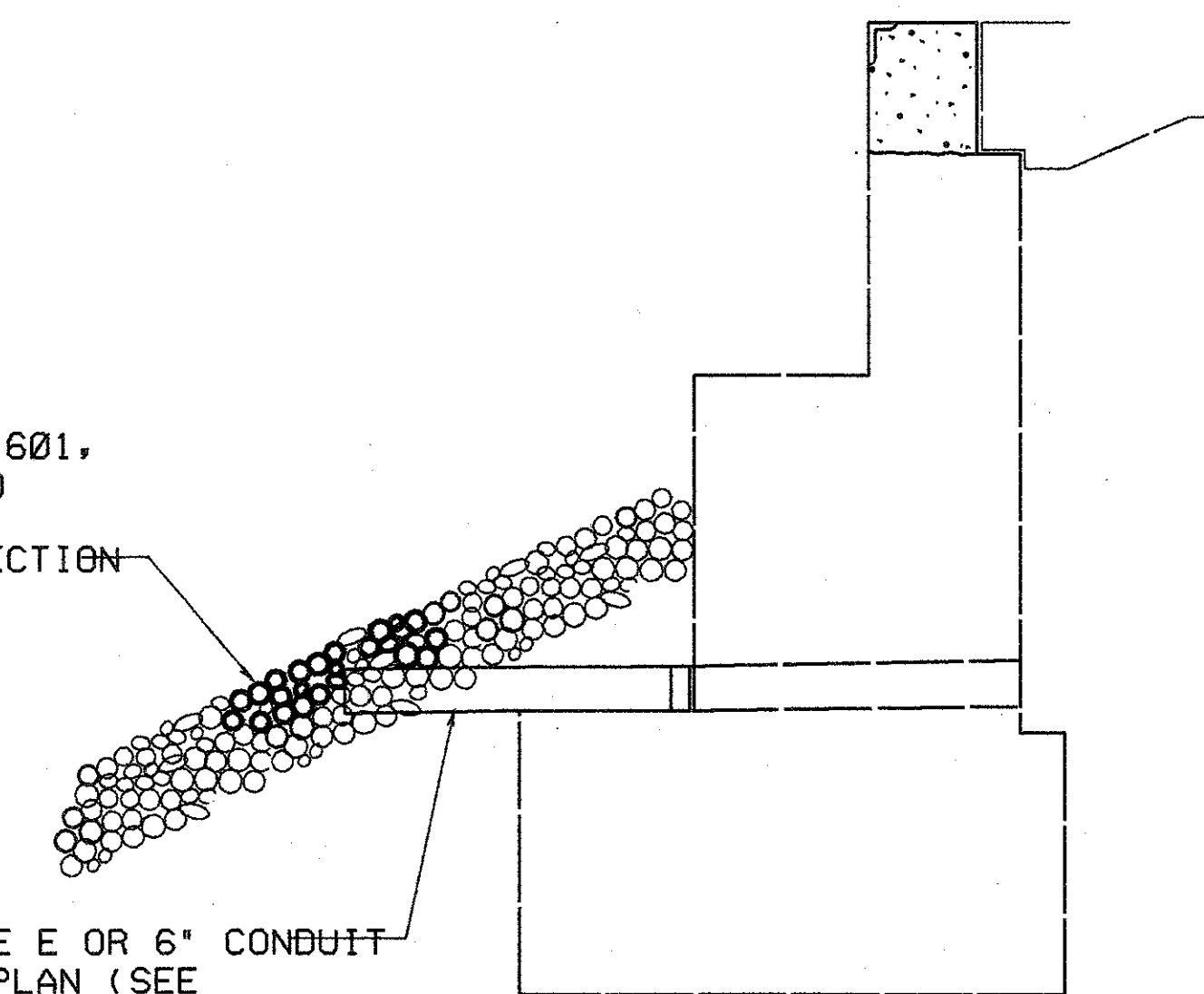
8
8

SCUPPER MODIFICATION DETAIL

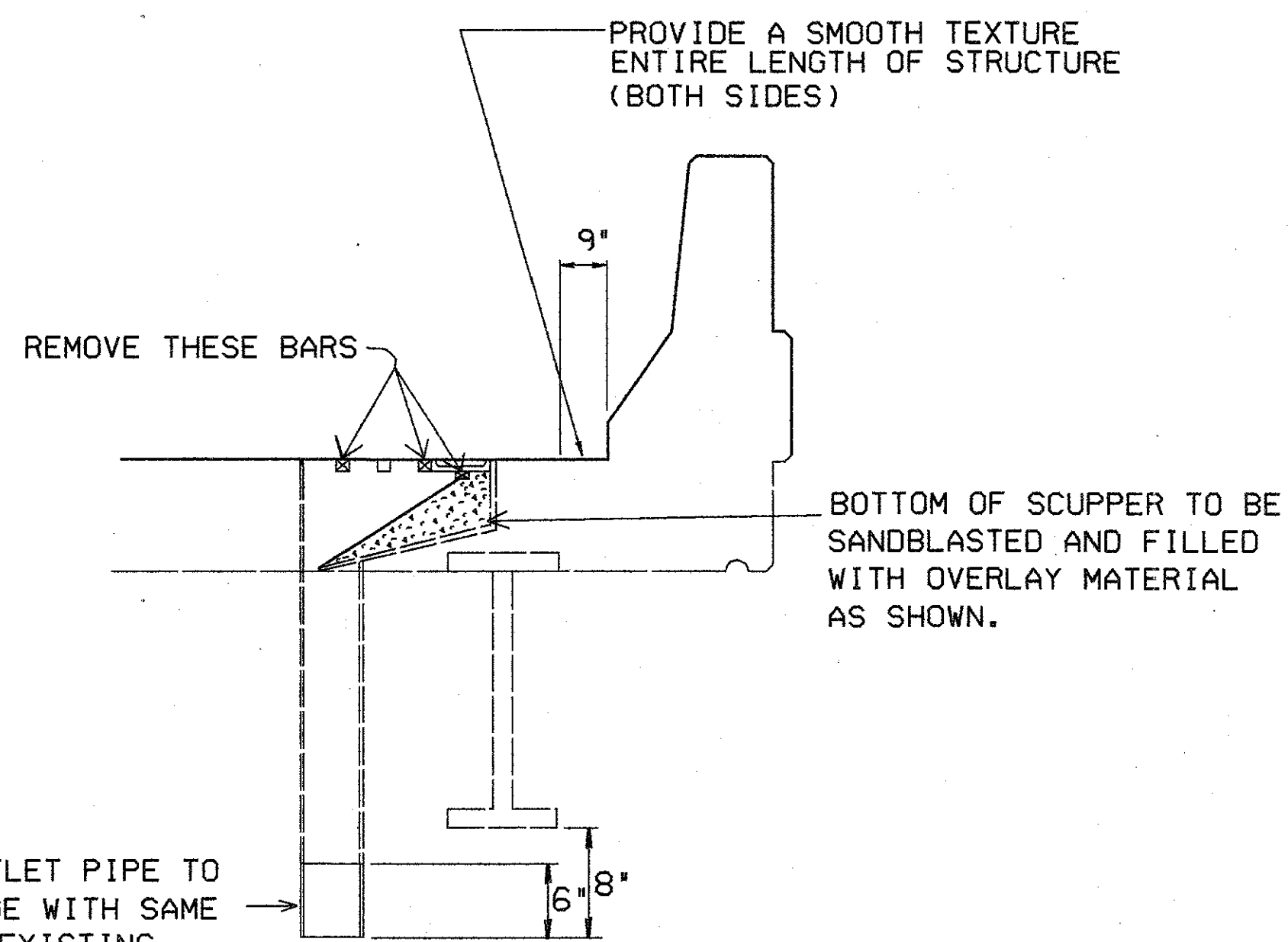


PLAN VIEW

ESTIMATED QUANTITY 25 CU.YD. OF ITEM 601, CRUSHED AGGREGATE SLOPE PROTECTION TO BE USED AS DIRECTED BY THE ENGINEER FOR LEVELING THE EXISTING SLOPE PROTECTION

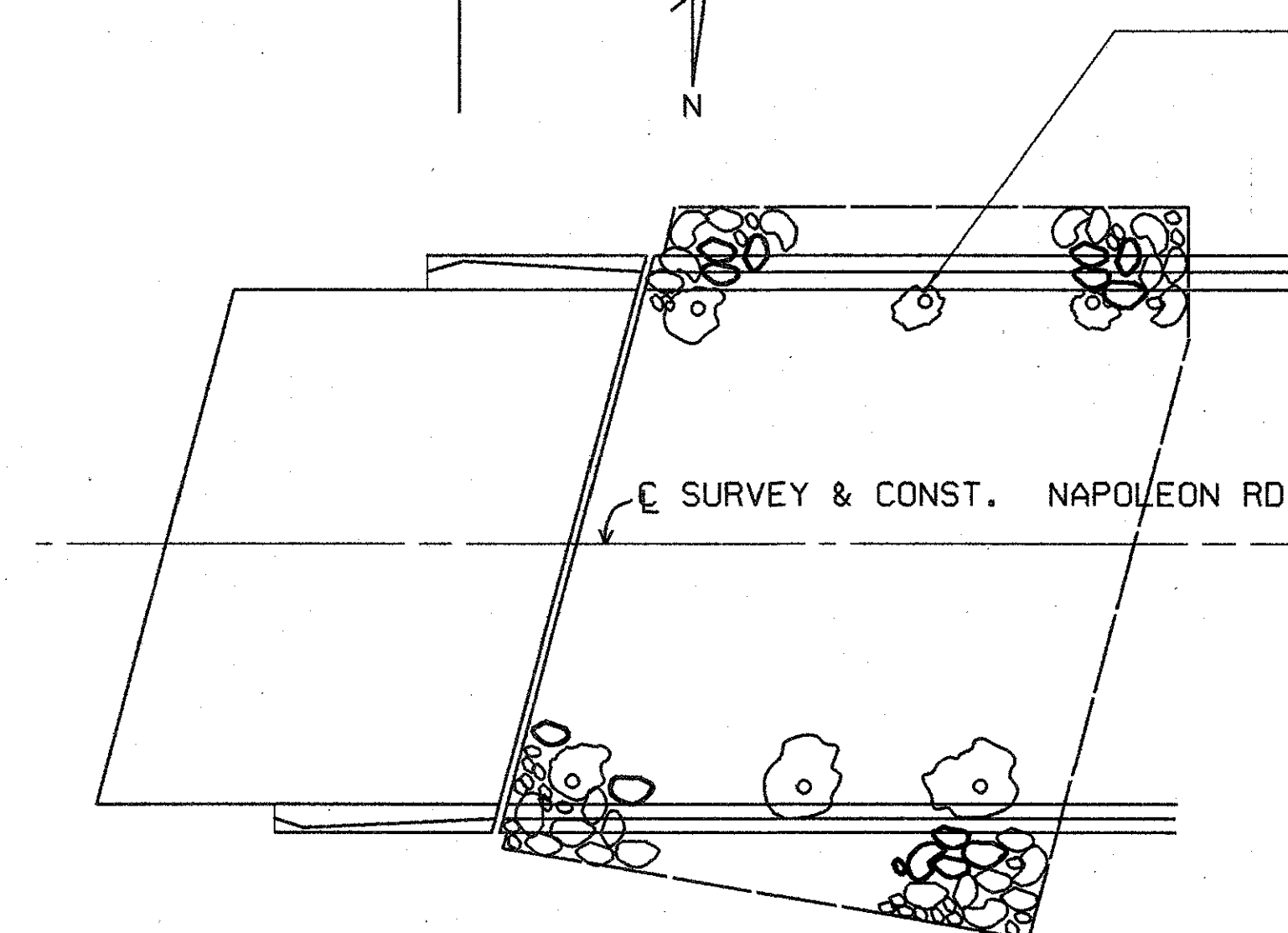
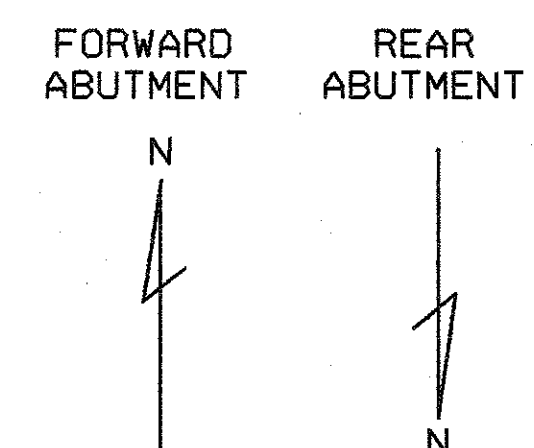


ELEVATION



SECTION K-K

EXTEND EXISTING OUTLET PIPE TO 8" BELOW BEAM FLANGE WITH SAME SIZE STEEL PIPE AS EXISTING. INCLUDE COST IN ITEM 518, SCUPPER MODIFICATION, AS PER PLAN.



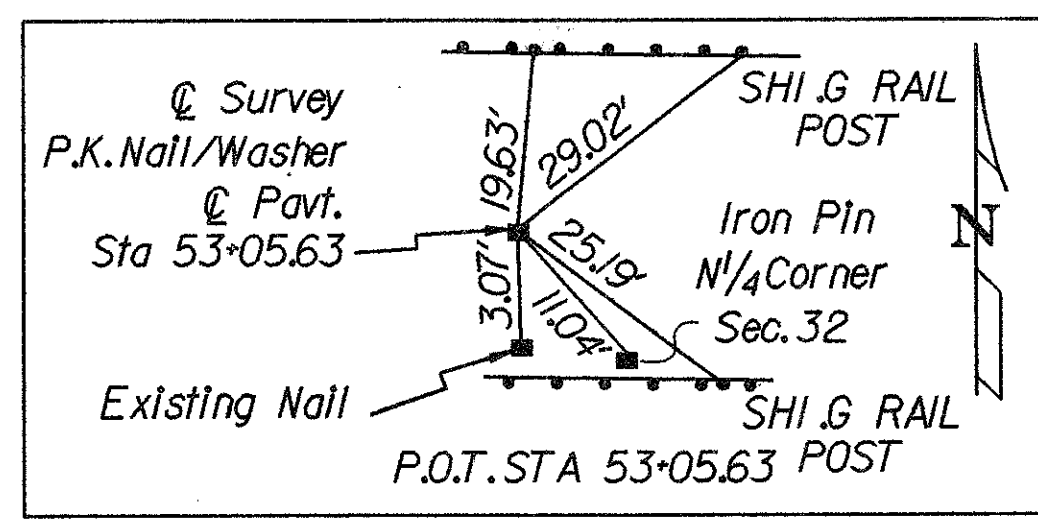
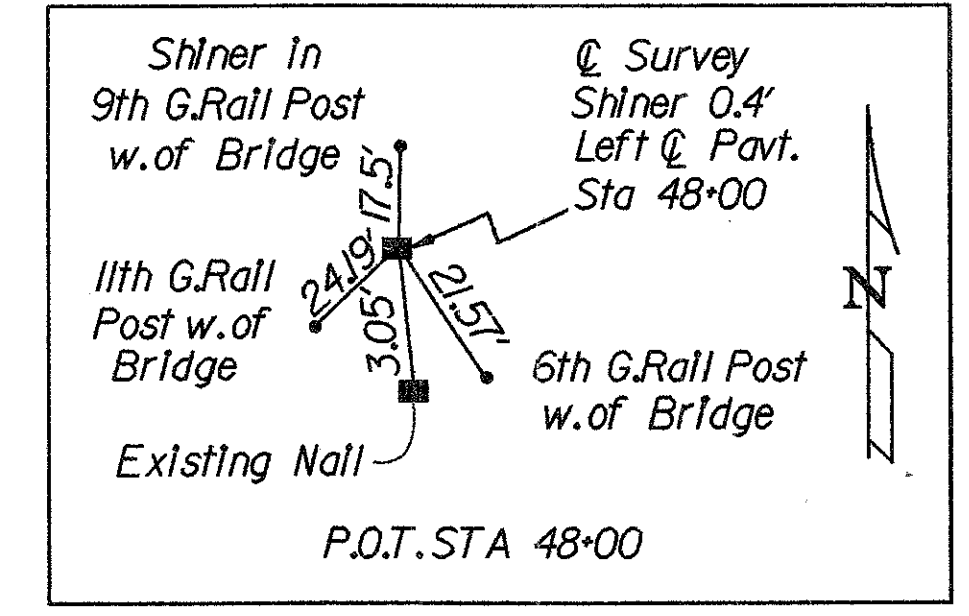
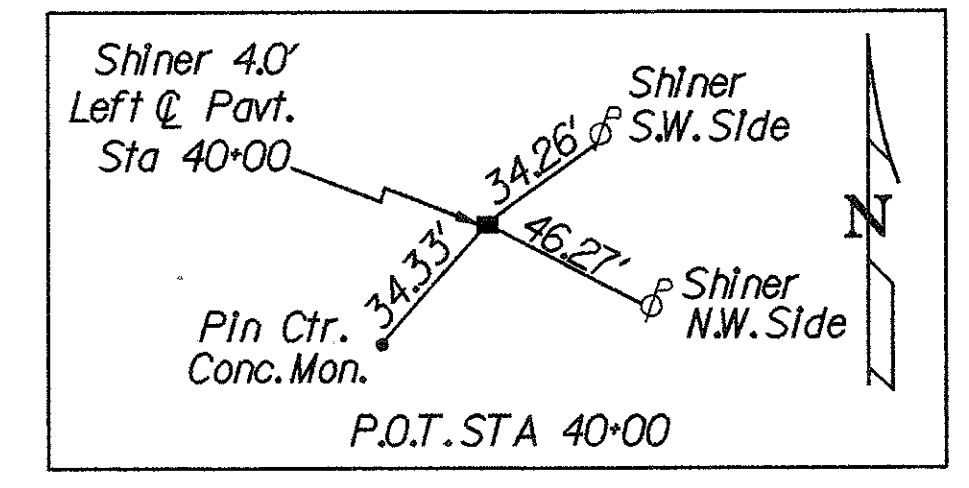
PLAN

THE EXISTING AND PROPOSED CRUSHED AGGREGATE SLOPE PROTECTION DIRECTLY UNDER THE BRIDGE DRAINAGE SCUPPERS SHALL BE PROTECTED BY GROUTING A 5' X 5' AREA OF AGGREGATE AS PER 601.03. AN ESTIMATED QUANTITY OF 34 SQ.YDS. SHALL BE USED AS DIRECTED BY THE ENGINEER FOR THIS PURPOSE.

ZFAI:2002101W75KRSC .DGN:1

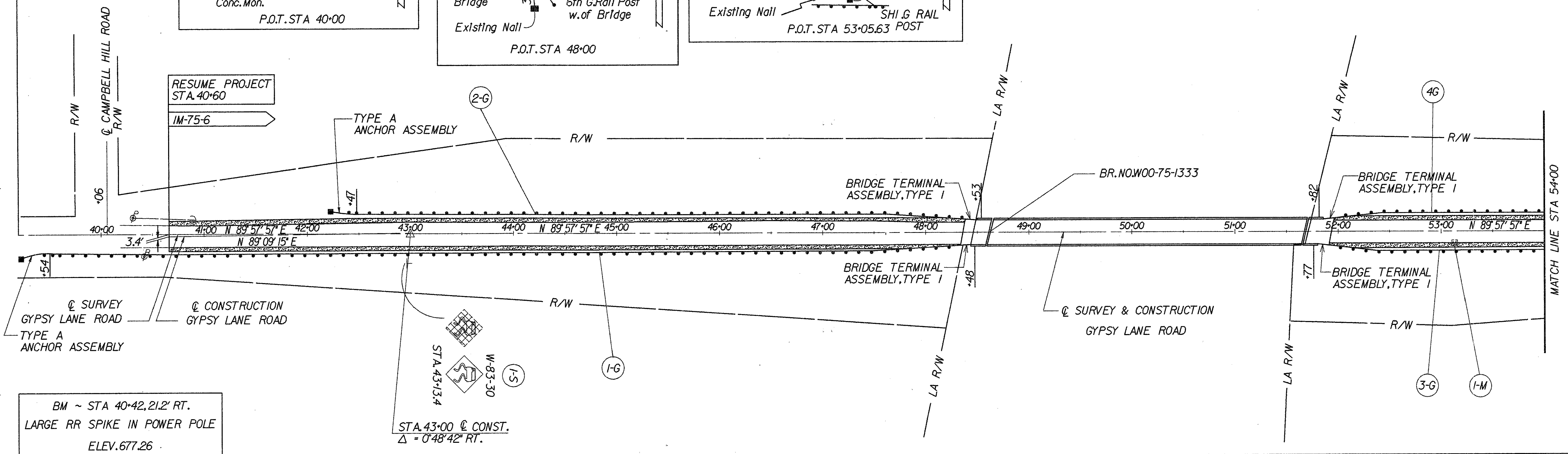
STATE OF OHIO		8 / 8	
DISTRICT 2		DESIGN & PLANNING OFFICE	
MISCELLANEOUS DETAILS			
BRIDGE NO. W00-75-1230			
KRAMER ROAD			
DESIGNED	DRAWN	TRACED	CHECKED
MTG			GG
REVIEWED DATE	7/1/82	REVISED	

PAVEMENT LEGEND
 4' WIDE BITUMINOUS SURFACE
 TREATED SHOULDER



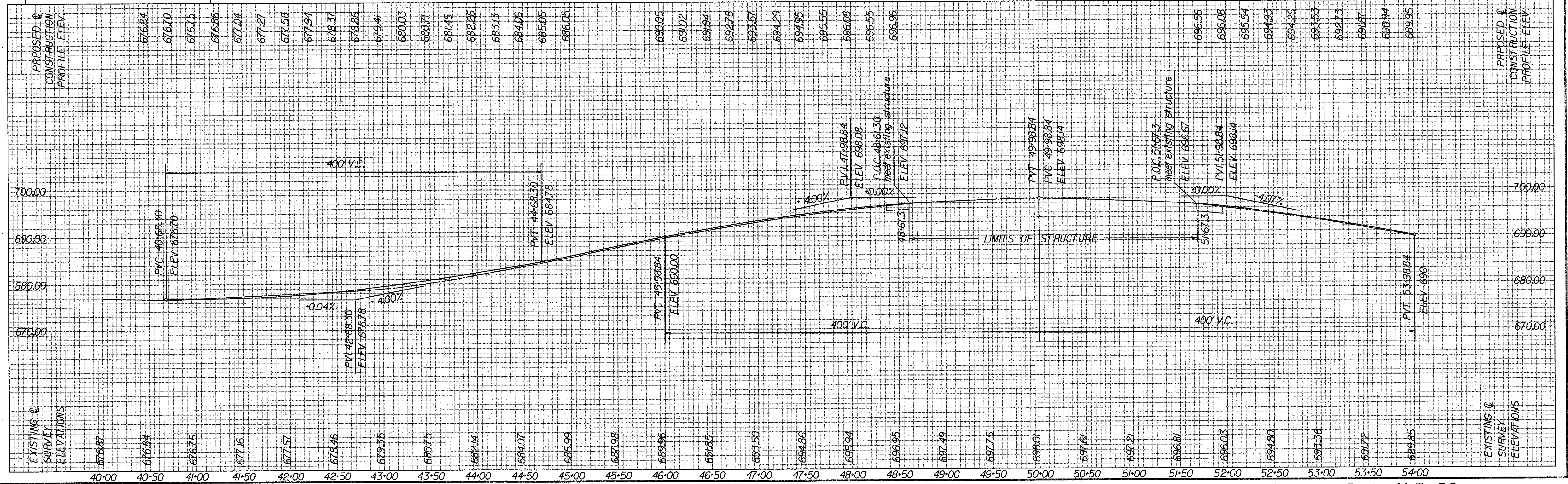
RESUME WORK
STA 39+29

RESUME PROJECT
STA 40+60
IM-75-6



BM ~ STA 40+42.212' RT.
LARGE RR SPIKE IN POWER POLE
ELEV. 677.26

STA. 43+00 @ CONST.
Δ = 0° 48' 42" RT.



STA. 40 + 00 TO STA. 54 + 00 GYPSY LANE RD.

W756L40P.DWG

FHWA REGION	STATE	PROJECT
5	OHIO	

88
116

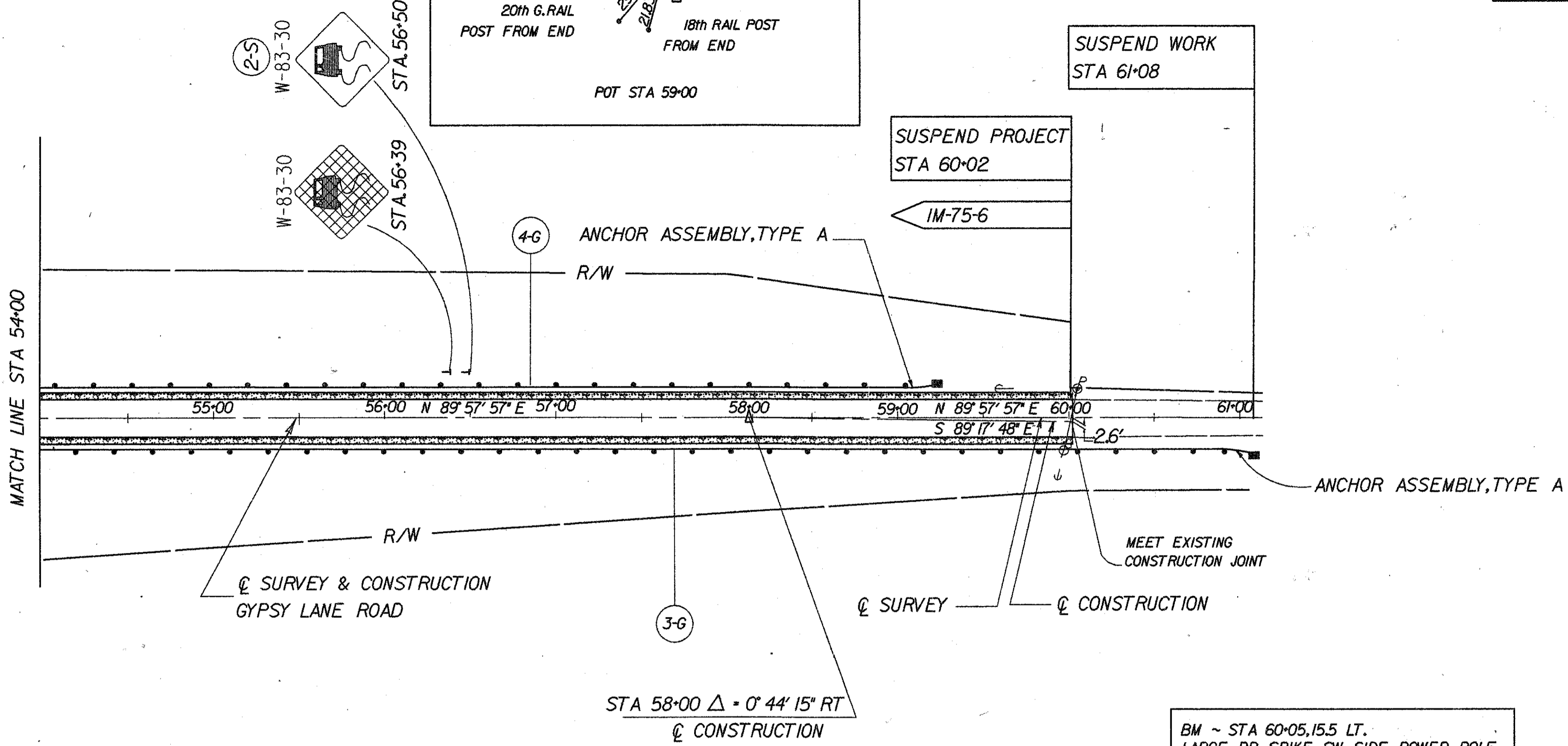
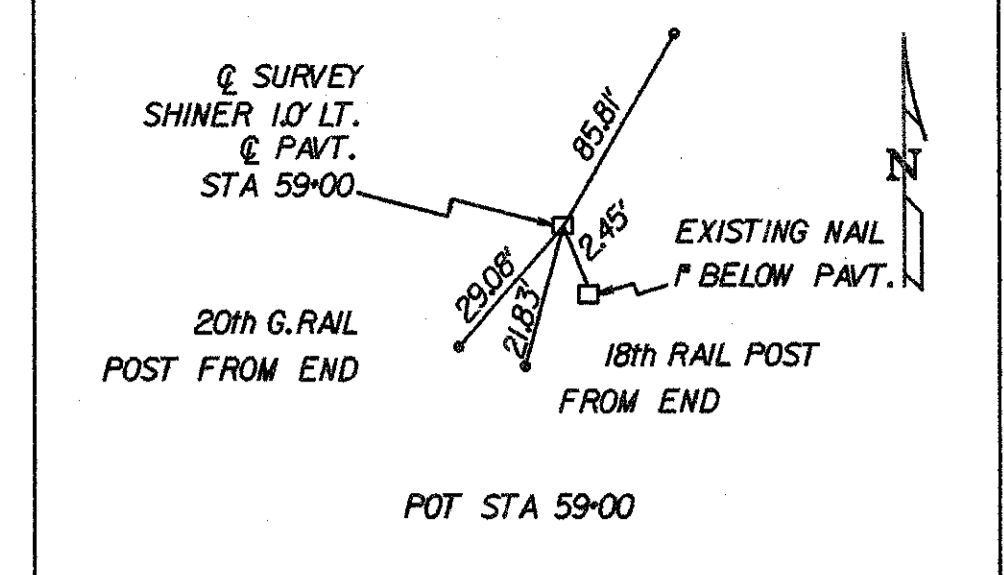
W00-75-3.01 (VARIOUS)

LEGEND

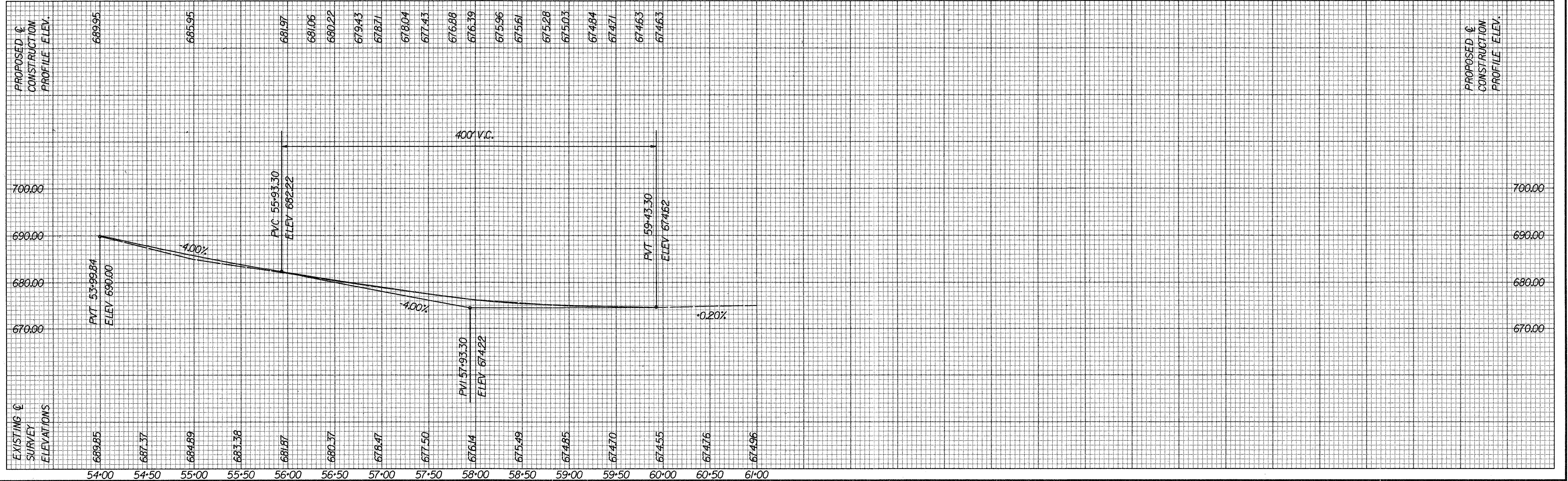
4' WIDE BITUMINOUS SURVEY TREATED SHOULDER

SIGN LEGEND

EXISTING SIGN TO BE REMOVED
NEW SIGN



BM ~ STA 60+05, 15.5 LT. LARGE RR SPIKE SW SIDE POWER POLE ELEV 676.07



STA. 54 + 00 TO STA. 61 + 00 GYPSY LANE RD.

ZFAH2001001W75GL54P.DGN:1

QUANTITIES
CALC. BY GG DATE 2-20-92
CKD. BY HTG DATE 2-21-92

SUBSUMMARY

ITEM	EXT.	TOTAL	UNIT	DESCRIPTION
-ROADWAY-				
202	22900	147	SQ. YD.	APPROACH SLAB REMOVED (T = 13")
202	38000	2720	LIN. FT.	GUARDRAIL REMOVED
203	12000	2174	CU. YD.	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION
203	20000	290	CU. YD.	EMBANKMENT
203	50000	5053	SQ. YD.	SUBGRADE COMPACTION
-MONUMENTS-				
604	38500	1	EACH	MONUMENT ASSEMBLY
606	13000	3125	LIN. FT.	GUARDRAIL TYPE 5
606	25000	4	EACH	ANCHOR ASSEMBLY, TYPE A
606	35000	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1
-EROSION CONTROL-				
802	00300	39	EACH	BARRIER REFLECTOR, TYPE A2, (WHITE)
802	00400	6	EACH	BARRIER REFLECTOR, TYPE B2, (WHITE)
-DRAINAGE-				
605	31100	640	LIN. FT.	AGGREGATE DRAIN
-PAVEMENT-				
301	10002	527	CU. YD.	BITUMINOUS AGGREGATE BASE, AC-20
304	20001	979	CU. YD.	AGGREGATE BASE, AS PER PLAN
-TRAFFIC CONTROL-				
402	20000	176	CU. YD.	ASPHALT CONCRETE, AC-20
404	20000	126	CU. YD.	ASPHALT CONCRETE, AC-20
409	12500	22	CU. YD.	SEAL COAT COVER AGGREGATE NO. 8 FOR SHOULDERS
409	21000	792	GALLON	SEAL COAT BITUMINOUS MATERIAL FOR SHOULDERS
611	25000	159	SQ. YD.	REINFORCED CONCRETE APPROACH SLAB (T=15")
-TRAFFIC CONTROL-				
642	00290	0.38	MILE	CENTERLINE
630	03100	30	LIN. FT.	GROUND MOUNTED SUPPORT, NO. 3 POST
630	80100	13	SQ. FT.	SIGN, FLAT SHEET
630	84900	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
630	86007	1	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL

UNDERDRAIN TABLE

Station	Side	Item	Description	Total
40+75	48+25	RT.	605 Aggregate Drain	16 @ 10' Avg.=160 Lin Ft.
41+00	48+00	LT.	605 Aggregate Drain	15 @ 10' Avg.=150 Lin Ft.
52+00	60+00	RT.	605 Aggregate Drain	17 @ 10' Avg.=170 Lin Ft.
52+25	59+75	LT.	605 Aggregate Drain	16 @ 10' Avg.=160 Lin Ft.
Totals to Subsummary				640 Lin. Ft.

MONUMENT TABLE

Ref.	Station	Side	604 Mon. Assem.
			EACH
1-M	53+09.4	10.4RT.	1
Totals to Subsummary			1

EARTH WORK AND SEEDING TABLE

Station	From	To	203		659
			Excava. Not Inclu. Embank.	Embankment	Seeding and Mulching
			CU. YD.	CU. YD.	SQ. YD.
40+60	46+00		671	192	1407
46+00	48+61.25		466	0	753
51+68.83	55+00		288	1	335
55+00	60+02		749	97	1700
Total to Subsummary			2174	290	4195

PAVEMENT MARKING TABLE

Station	From	To	Length Miles	Item	Description
40+47	50+50	.180	642	4" Yellow Centerline, Solid-Dashed	
50+50	59+65	.183	642	4" Yellow Centerline, Dashed-Solid	
59+65	60+25	.011	642	4" Yellow Centerline, Dashed	
Total to Subsummary			0.375		

GUARDRAIL TABLE

Ref.	Station		Side	202	606	606	606	802	802
	From	To		Guardrail Removed Lin. Ft.	Guardrail Type 5 Lin. Ft.	Anchor Assem. Type A Each	Bridge Term. Type 1 Each	Barrier Reflect. Type A2, WHITE Each	Barrier Reflect. Type B2, WHITE Each
1-G	39+29	48+48	RT.	803	893.75	1	1	10	
2-G	42+22	48+53	LT.	501	606.25	1	1	7	
3-G	51+77	61+08	RT.	865	906.25	1	1	10	
4-G	51+82	59+26	LT.	551	718.75	1	1	8	
Bridge	48+48	51+77	RT.					2	3
Bridge	48+53	51+82	LT.					2	3
Totals to Subsummary				2720	3125.0	4	4	39	6

SIGN TABLE

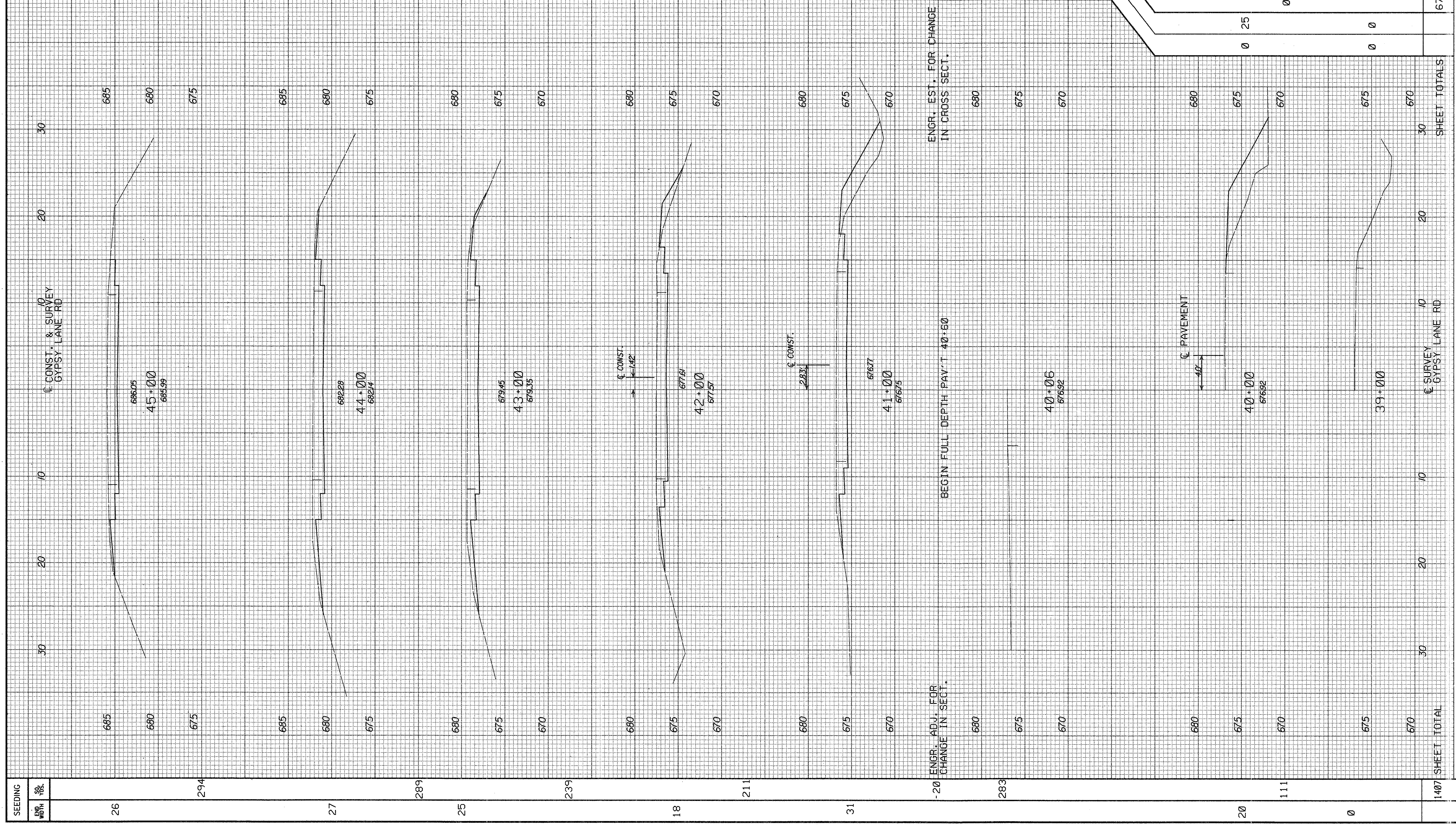
Ref.	Station	Side	Sign Code Number	Sign In Labels	630	No. 3 Post	630	630
					Flat Sheet Sign SQ. FT.		Removal Of Ground Mounted Post Support & Disposal EACH	Removal Of Ground Mounted Sign & Disposal EACH
1-S	43+00	RT.	W-83-30	30 X 30	6.25	15.5	1	1
2-S	56+50	LT.	W-83-30	30 X 30	6.25	14	1	1
Totals to Subsummary					12.5	29.5	1	1

SEEDING END WIDTH	SS.	STATION	END AREA		VOLUME	
			CUT	FILL	CUT	FILL
26		294	34	0	141	0
27		289	42	0	159	4
25		239	44	2	163	13
18		211	44	5	150	46
31		203	37	20	-10	0
		283			68	83
20		111	0	25	0	46
0		0	0	0	0	0
1407 SHEET TOTAL			6711		92	

CALC BY: *CS*
 DATE: 3-20-92
 CHKD BY: *MTG*
 DATE: 3-31-92

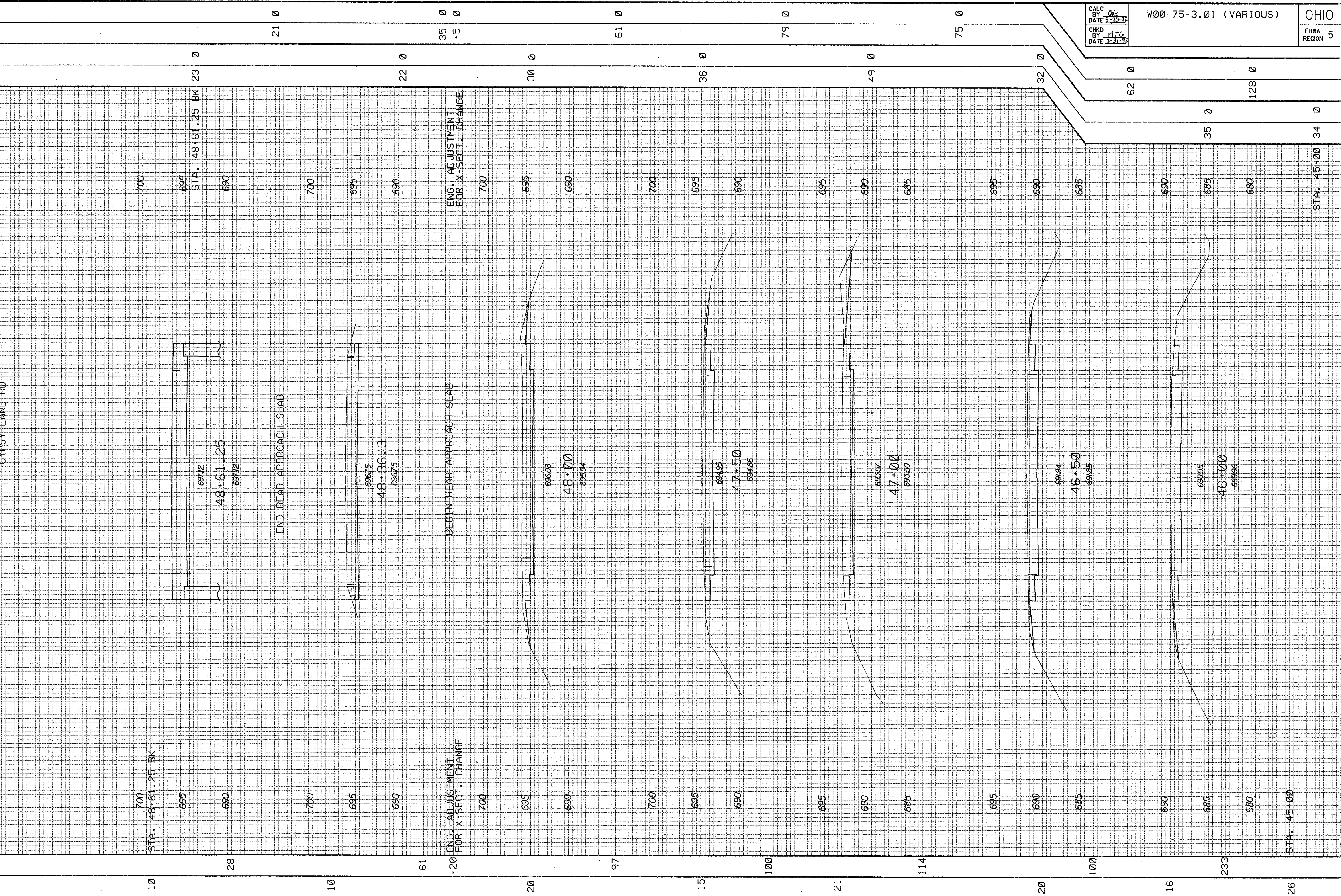
W00-75-3.01 (VARIOUS)
 OHIO
 FHWA REGION 5

90
 116



X-SECTIONS STA. 40+00 TO 45+00 GYPSY LANE RD

SEEDING	END AREA		VOLUME
	CUT	FILL	
10			21 0
28			35 0
10			61 0
61			79 0
20			75 0
15			32 0
100			62 0
21			128 0
114			34 0
20			466 0
100			
16			
233			
26			
753			



CALC BY *DLG*
 DATE *2-3-70*
 CHD BY *MTG*
 DATE *2-3-70*

W00-75-3.01 (VARIOUS)

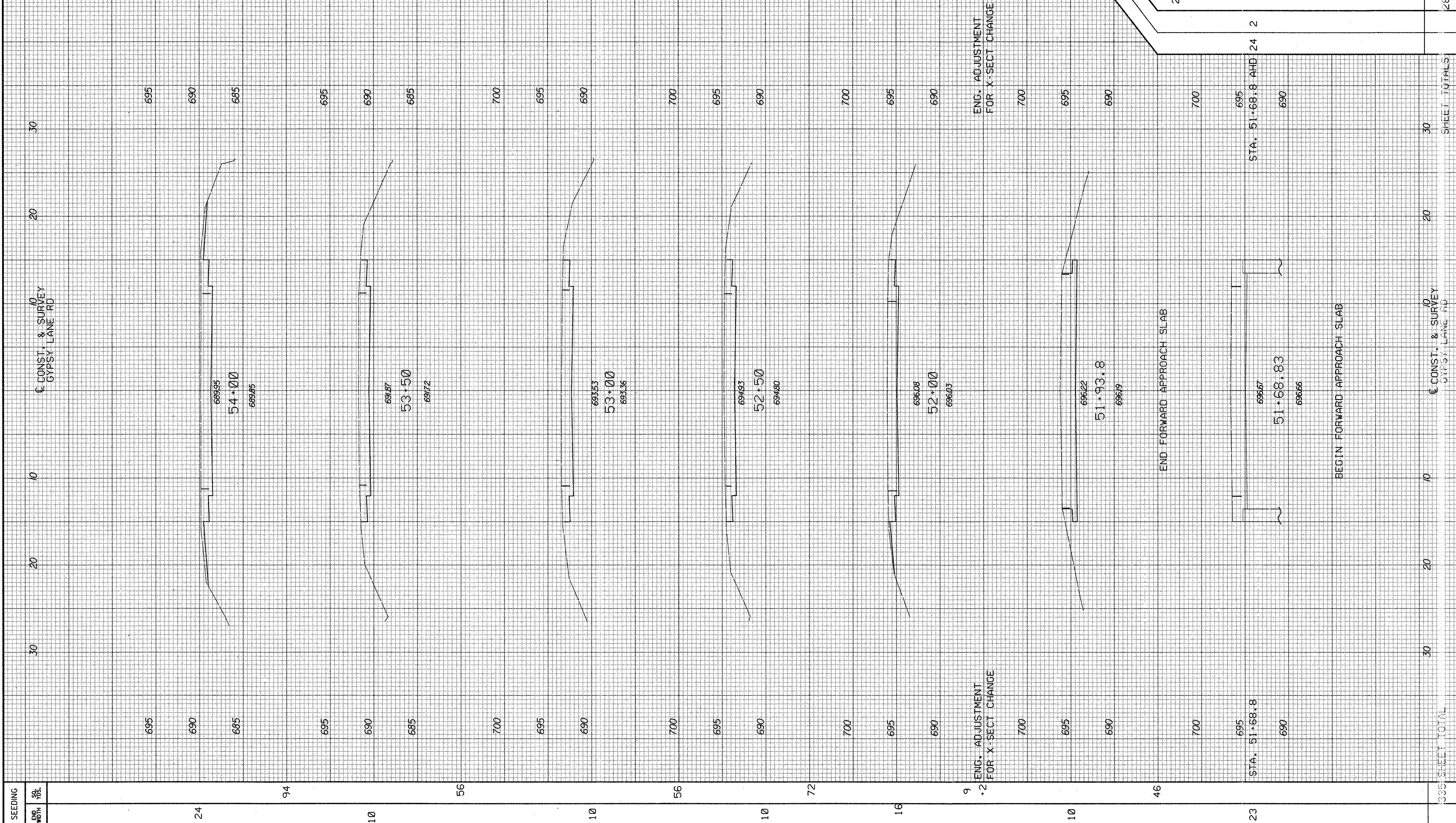
OHIO
 FHWA REGION 5

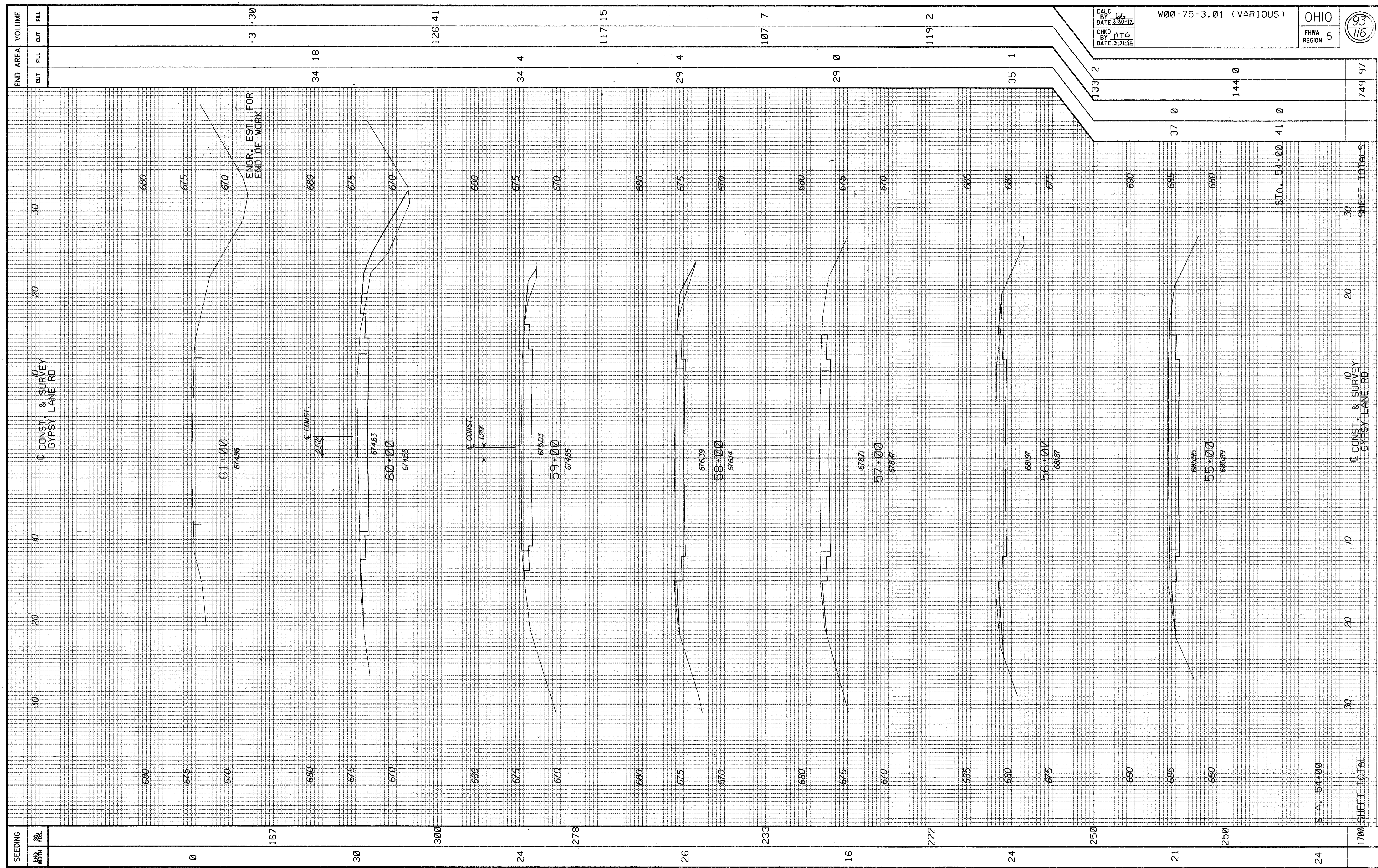
STA. 45+00 34 0
 STA. 48+61.25 BK 23 0

SEEDING SQ. FT.	END AREA CUT	VOLUME CUT	END AREA FILL	VOLUME FILL
24	41	0	0	69
10	33	0	0	61
10	33	0	0	61
10	33	0	0	61
16	40	0	0	68
9	7	0	0	7
10	20	0	0	20
23	20	1	0	288
SHEET TOTALS				

CALC BY: CG
 DATE: 3-3-93
 CHKD BY: MTG
 DATE: 3-7-93

W00-75-3.01 (VARIOUS)
 OHIO
 FHWA REGION 5





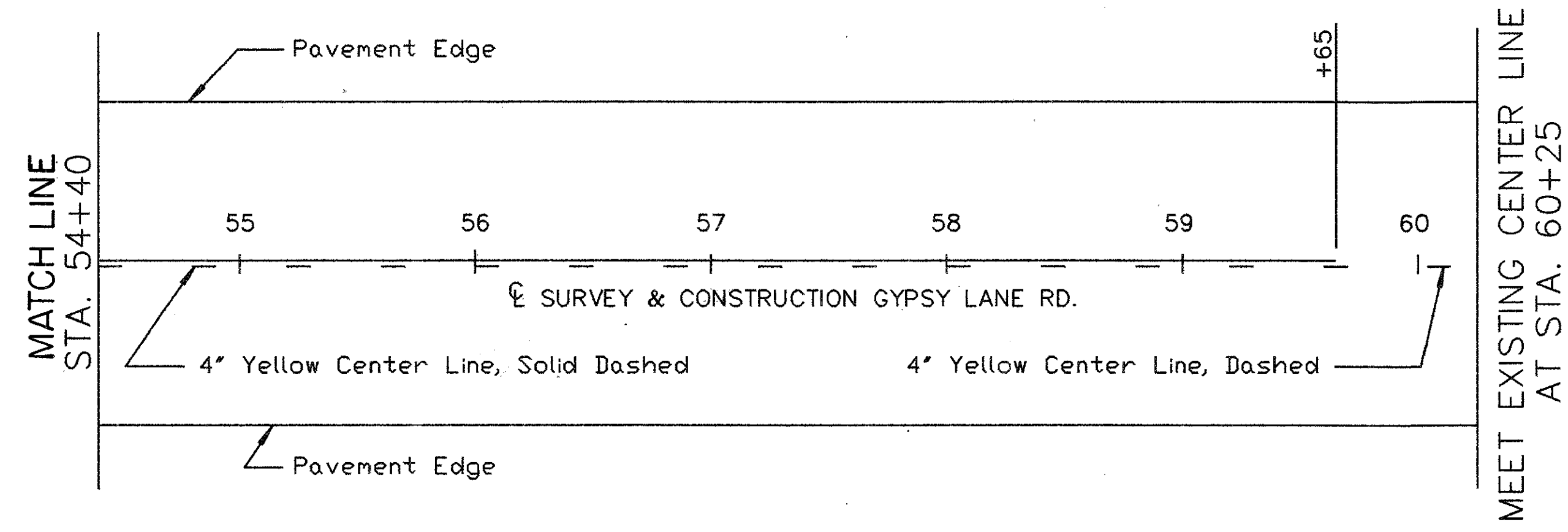
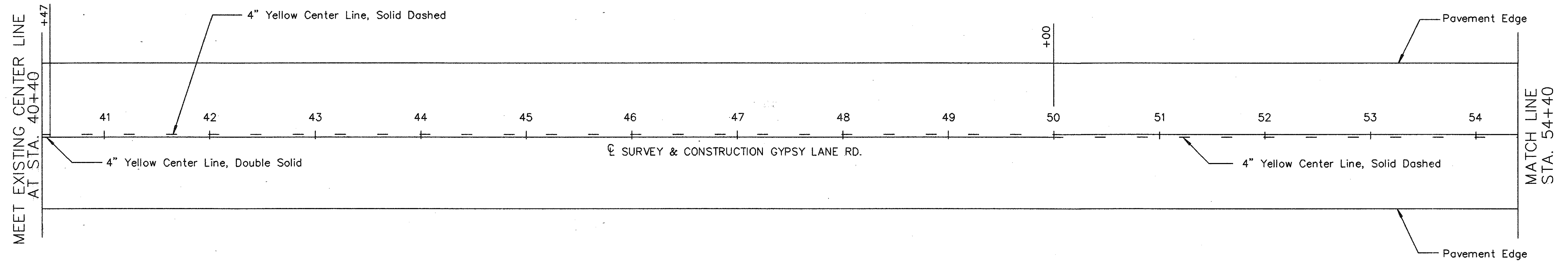
SEEDING	END AREA		VOLUME
	CUT	FILL	
0	34	18	3
167			41
30			15
300			7
24			2
278			0
26			1
233			2
16			2
222			2
24			1
250			2
21			0
250			0
24			0
1700 SHEET TOTAL	133	749	0

PAVEMENT MARKING

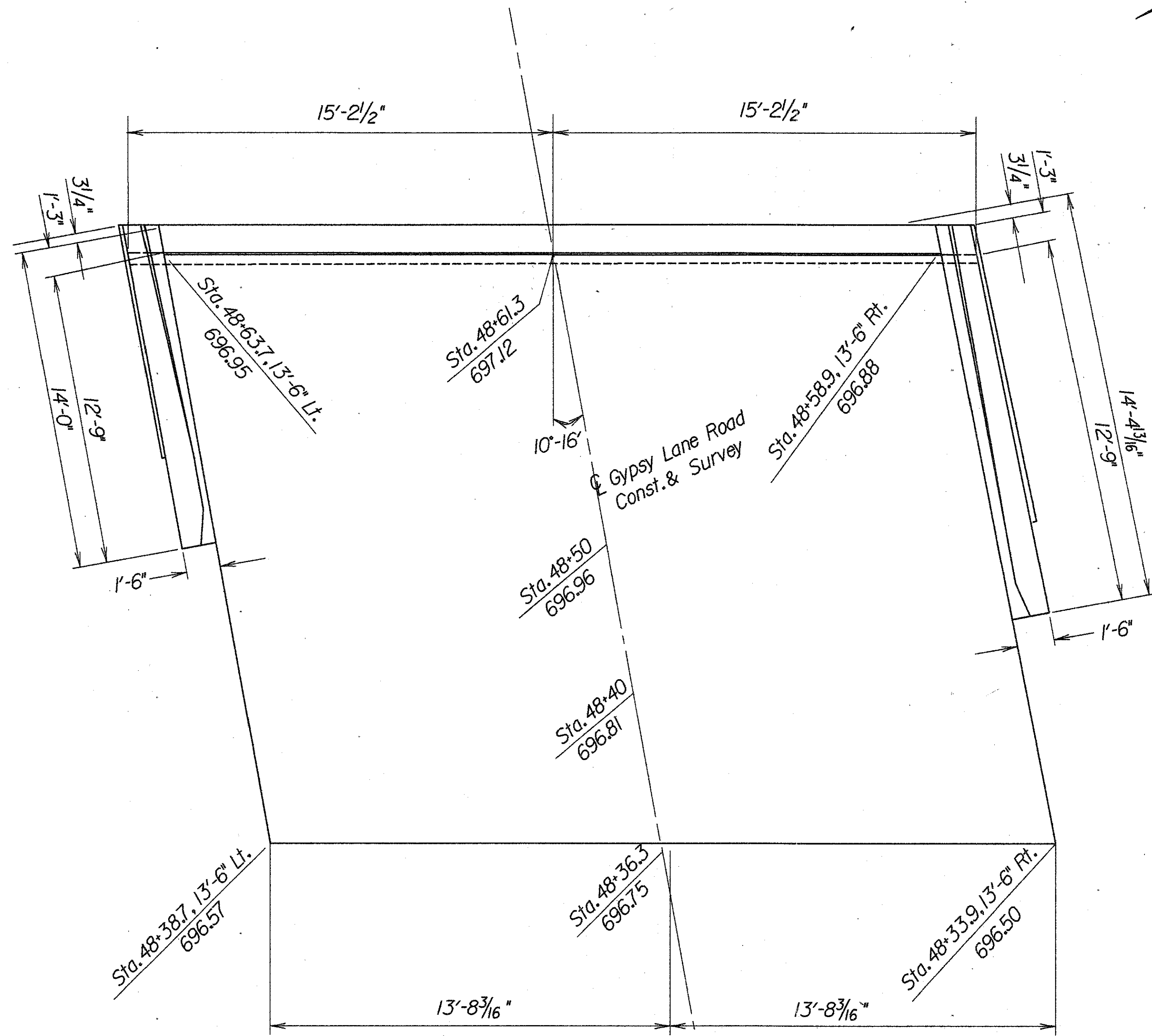
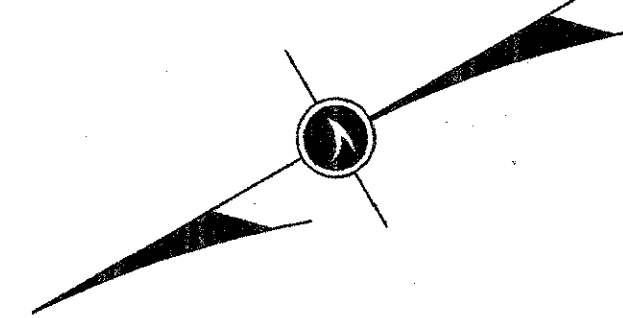
FHWA REGION	STATE	PROJECT	
5	OHIO		

WOO-75-3.01 (VARIOUS)

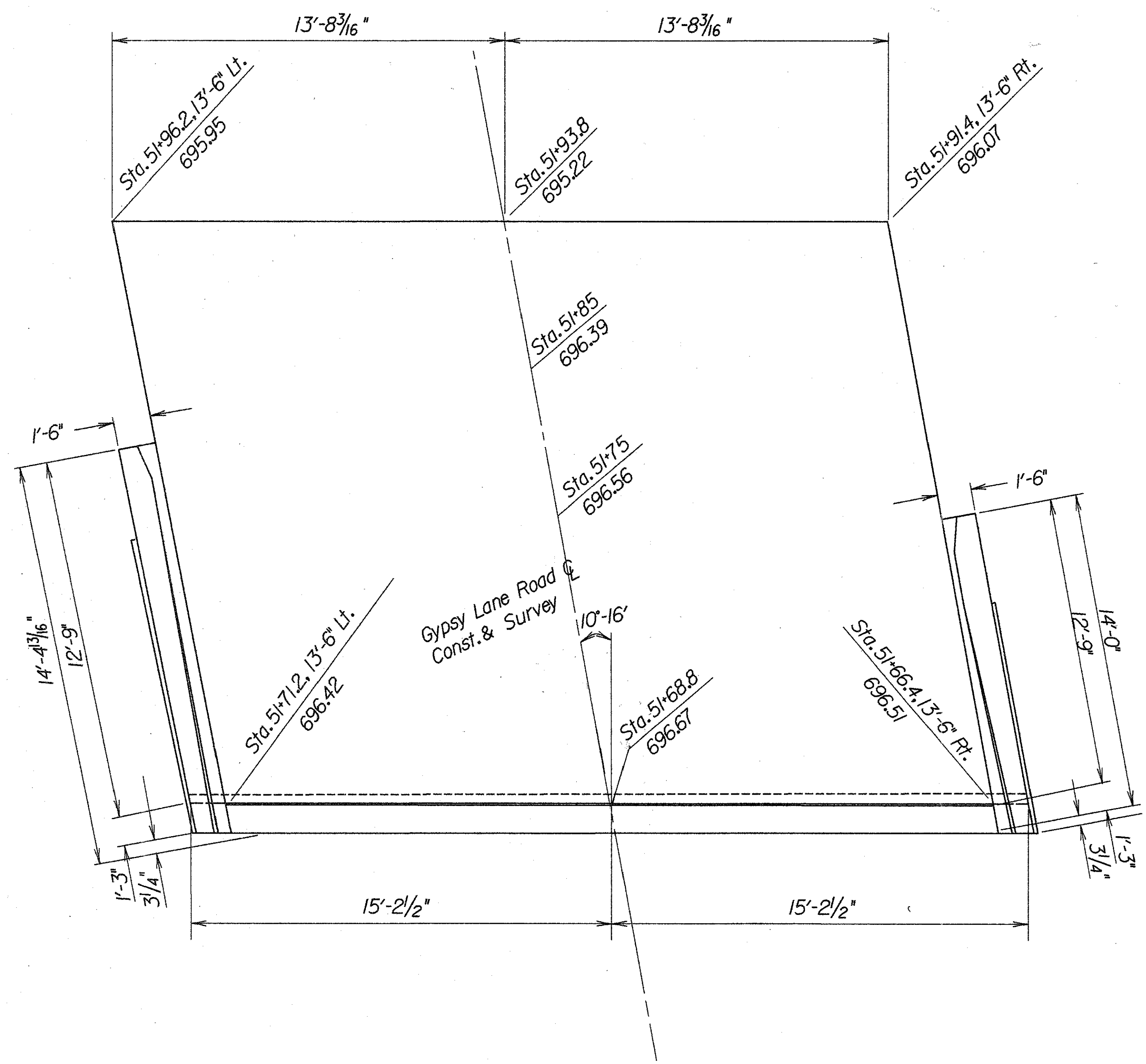
94
116



W75GLPM.DWG(MGE)1



REAR APPROACH SLAB



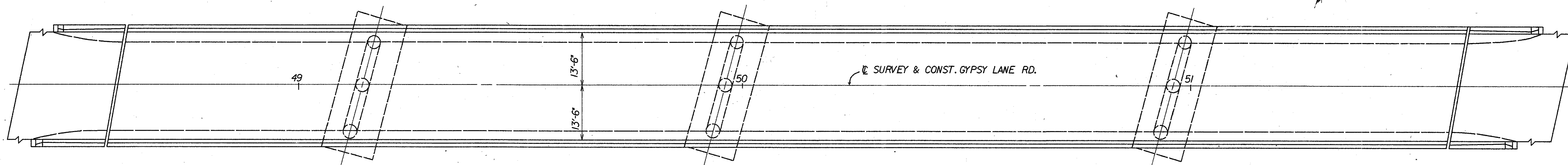
FORWARD APPROACH SLAB

FHWA REGION	STATE	PROJECT	
5	OHIO		

96
116

W00-75-3.01 (VARIOUS)

1
8



PLAN

PROPOSED WORK

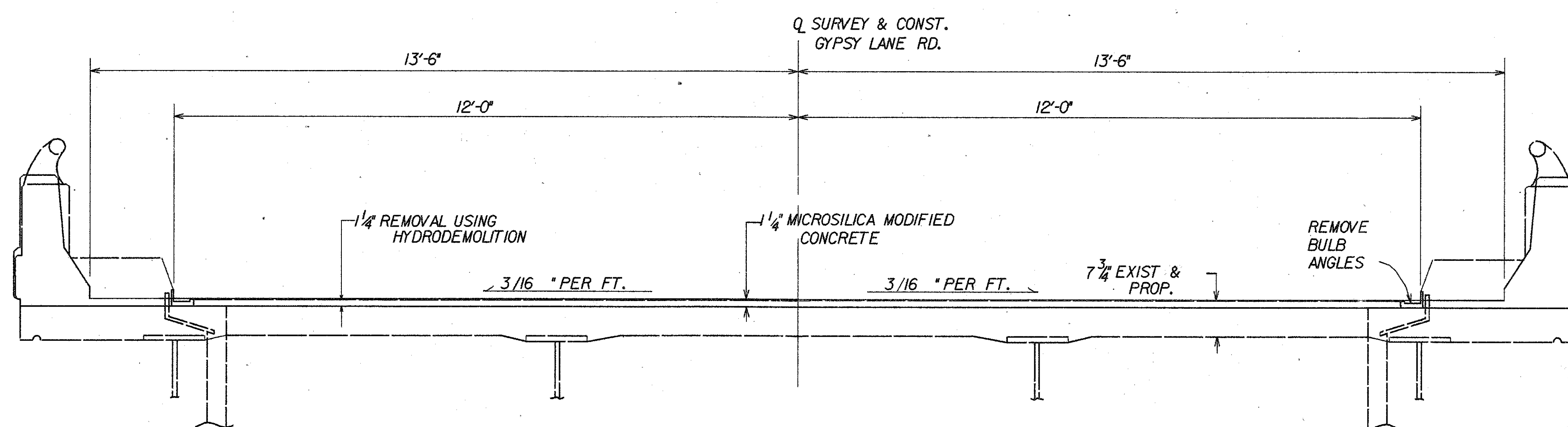
- 1) REMOVE 1 1/4" OF EXISTING DECK USING HYDRODEMOLITION
- 2) REMOVE EXISTING PARAPETS AND STRUCTURAL EXPANSION JOINTS
- 3) BUILD BRIDGE PARAPETS
- 4) REPLACE STRUCTURAL EXPANSION JOINTS WITH STRIP SEALS
- 5) OVERLAY DECK WITH 1 1/4" MICROSILICA
- 6) SEAL ABUTMENTS, PARAPETS AND WINGWALLS WITH EPOXY

EXISTING STRUCTURE DATA

TYPE: CONTINUOUS WELDED GIRDER WITH REINFORCED CONCRETE
 REINFORCED CONCRETE PIER BENTS & STUB ABUTMENTS
 SPANS: 54'-0", 83'-0", 100'-6", 65'-6"
 ROADWAY: 24'-0" F/F CURBS
 LOADING: H-15
 SKEW: 10-16'-00" LEFT FORWARD
 WEARING SURFACE: 1" MONOLITHIC CONCRETE
 APPROACH SLABS: AS-1-54 (25' LONG) SPECIAL
 ALIGNMENT: TANGENT

PROPOSED STRUCTURE DATA

ROADWAY: 27'-0" FACE TO FACE OF PARAPETS
 WEARING SURFACE: 1 1/4" MICROSILICA



TRANSVERSE SECTION

ZFAI200.210JW75GLSP.DGN

STATE OF OHIO
 DEPARTMENT OF TRANSPORTATION
 DISTRICT 2 DESIGN & PLANNING OFFICE

1 / 8

GENERAL PLAN AND TRANSVERSE SECTION
 BRIDGE NO. W00-75-1333
 GYPSY LANE ROAD

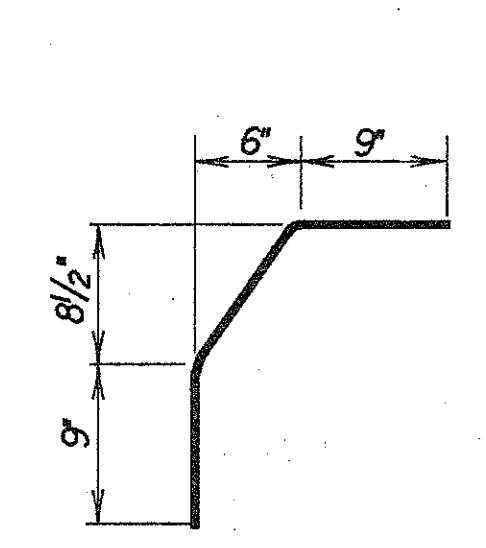
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MTG			GG	LL	7/10/02	

REINFORCING STEEL LIST

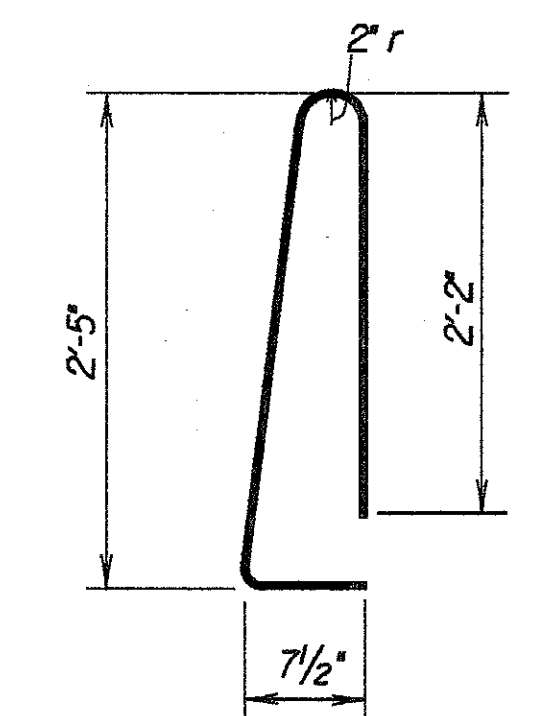
BENDING DIAGRAMS

MARK	NO. IN STRUCTURE			LENGTH	WEIGHT (LBS.)	SHAPE	LAP LENGTH	DOWEL HOLES (LIN. FT.)	
	LT.	RT.	TOTAL						
Superstructure									
ES501	44	44	88	29'-3"	2685	S	1'-8"		
ES502	239	239	478	5'-3"	2617	B			
ES503	239	239	478	1'-6"	748	S		199	
ES504	239	239	478	2'-4"	1163	B		199	
ES505	40	40	80	15'-6"	1293	S			
ES506	88	88	176	5'-6"	1010	S			
ES507	4	4	8	12'-0"	100	S			
Totals for Superstructure					9616			398	

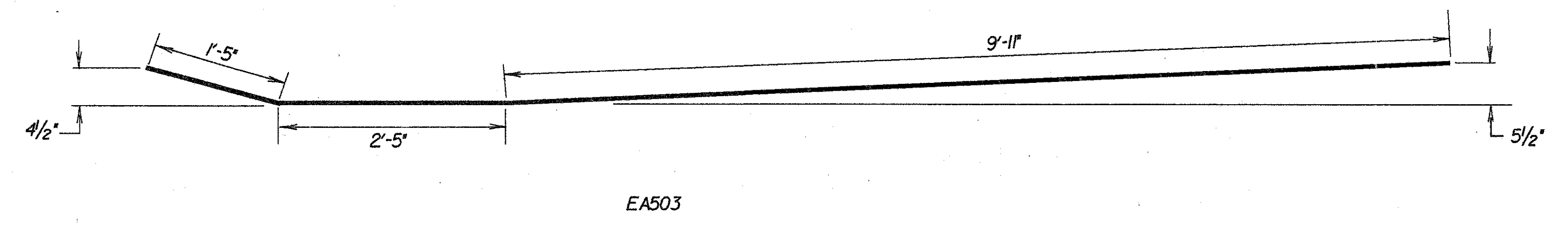
MARK	NO. IN ABUTMENT			LENGTH	WEIGHT (LBS.)	SHAPE	LAP LENGTH	DOWEL HOLES (LIN. FT.)	
	LT.	RT.	TOTAL						
Abutments									
EA801	40	40	80	4'-4"	463	B		80	
EA501	16	16	32	15'-9"	263	S	1'-8"		
EA502	10	10	20	13'-8"	285	S			
EA503	4	4	8	13'-9"	115	B			
EA504	2	2	4	13'-9"	57	B			
EA505	22	22	44	4'-4"	199	B			
EA506	14	14	28	3'-8"	107	B			
EA507	14	14	28	3'-0"	88	B			
EA508	4	4	8	4'-0"	33	B			
Totals for Abutments					1610			80	



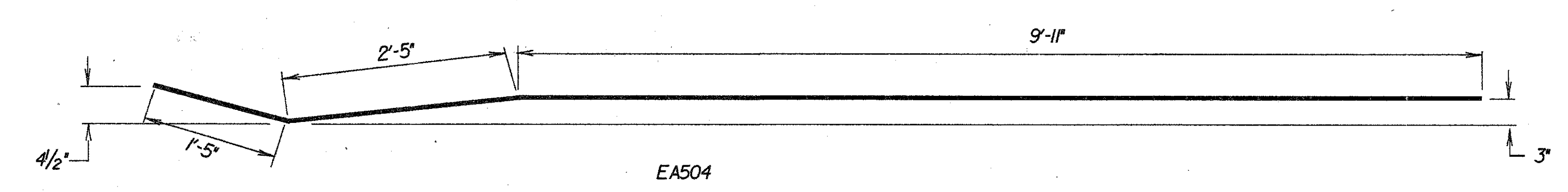
ES504



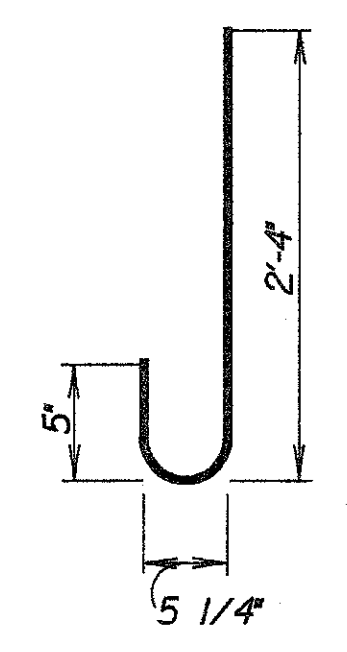
ES502



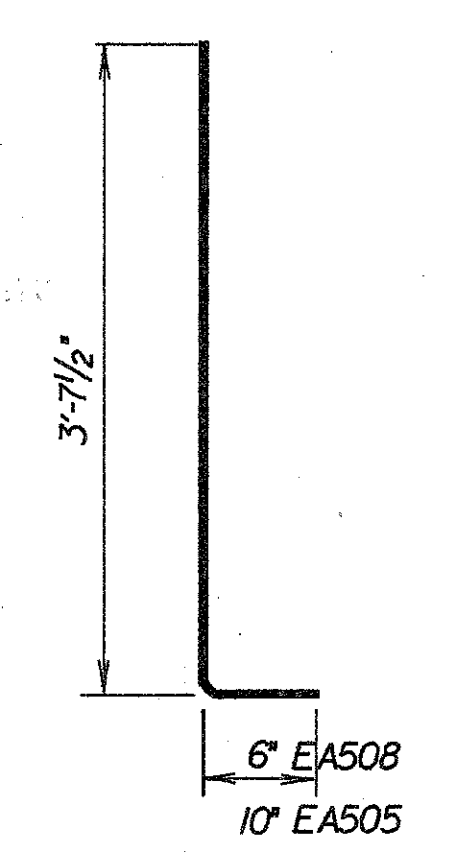
EA503



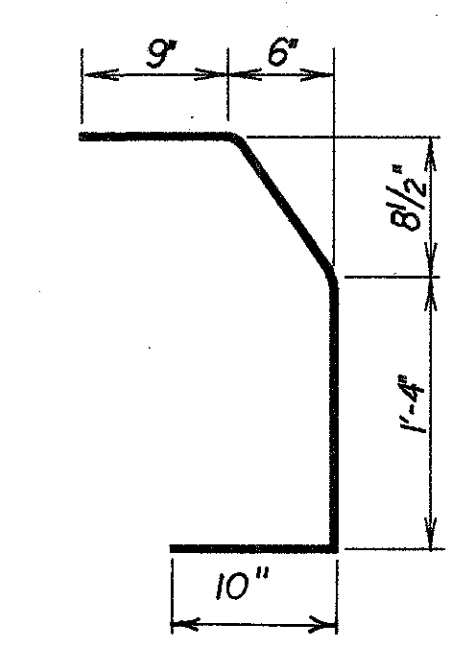
EA504



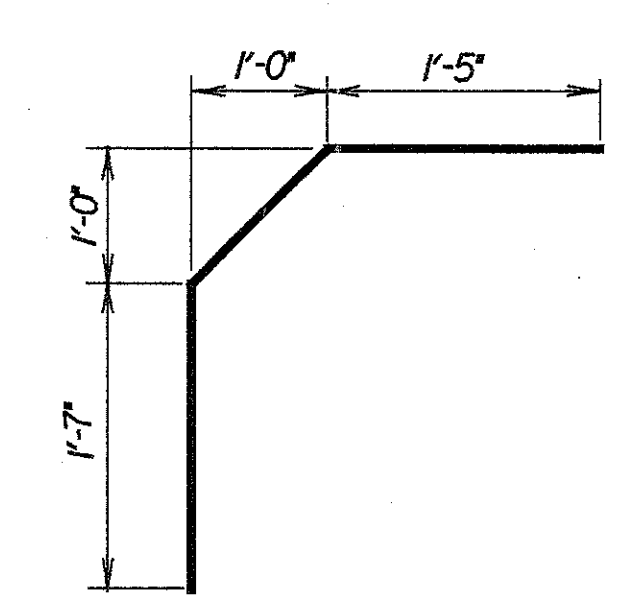
EA507



6" EA508
10" EA505



EA506



EA801

*E in prefix designates epoxy coated

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BUREAU OF LOCATION AND DESIGN						2 / 8
REINFORCING STEEL LIST AND DETAILS BRIDGE NO. WOO-75-1333 GYPSY LANE RD.						
DESIGNED MTG	DRAWN	TRACED	CHECKED GG	REVIEWED LCL	DATE 7/14/82	REVISED

ZFA112002101W75GL.SS1.DGN

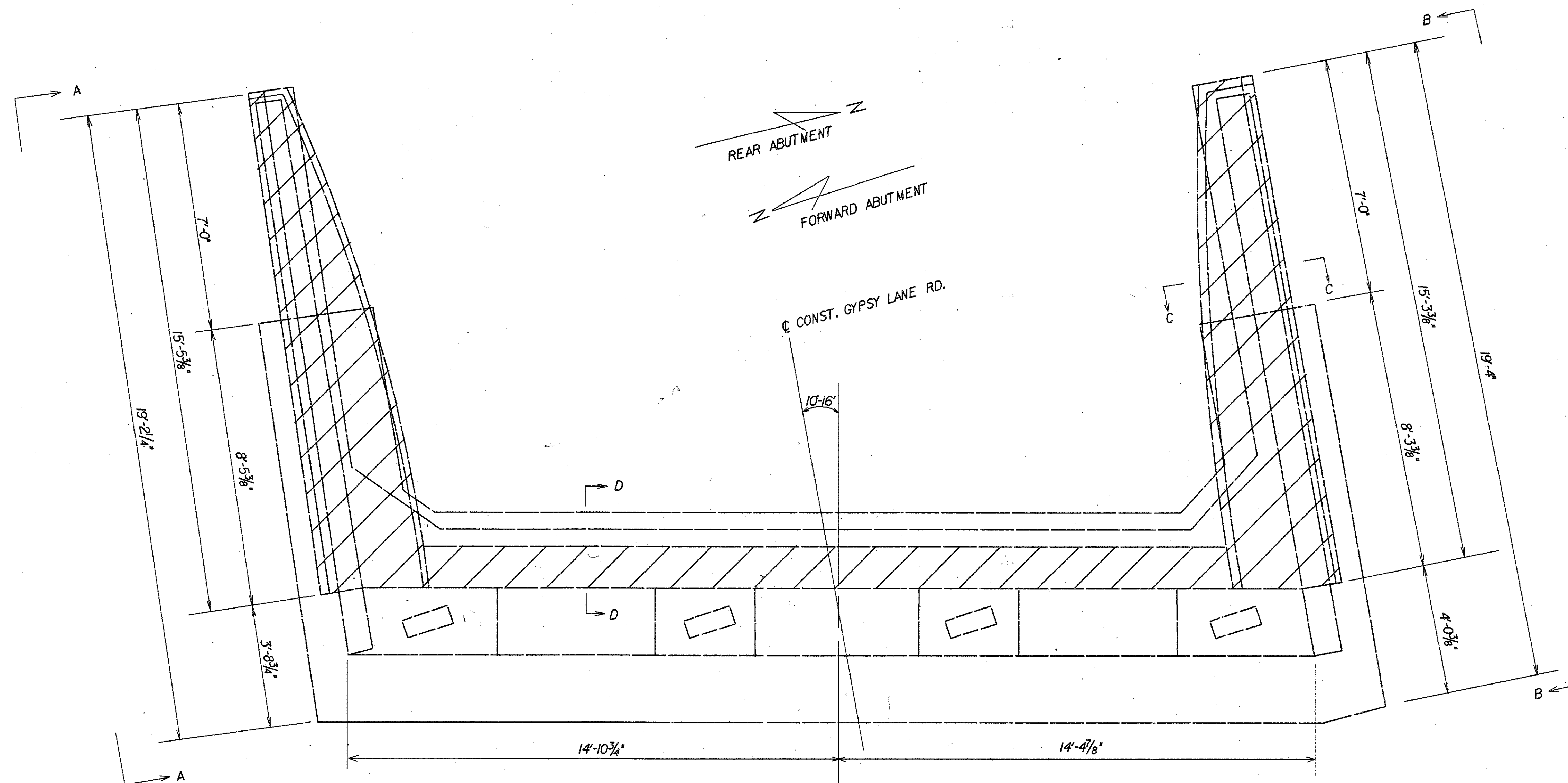
FYNA REGION	STATE	PROJECT
5	OHIO	

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116

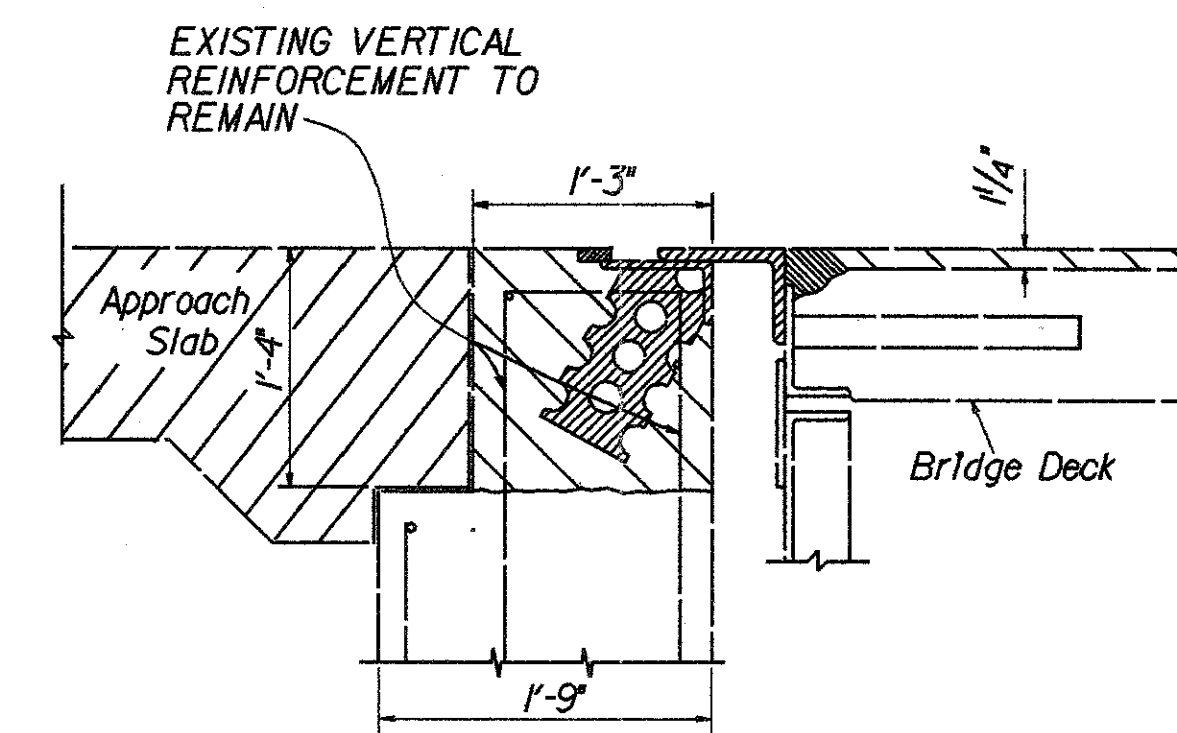
W00-75-3.01 (VARIOUS)

3
8

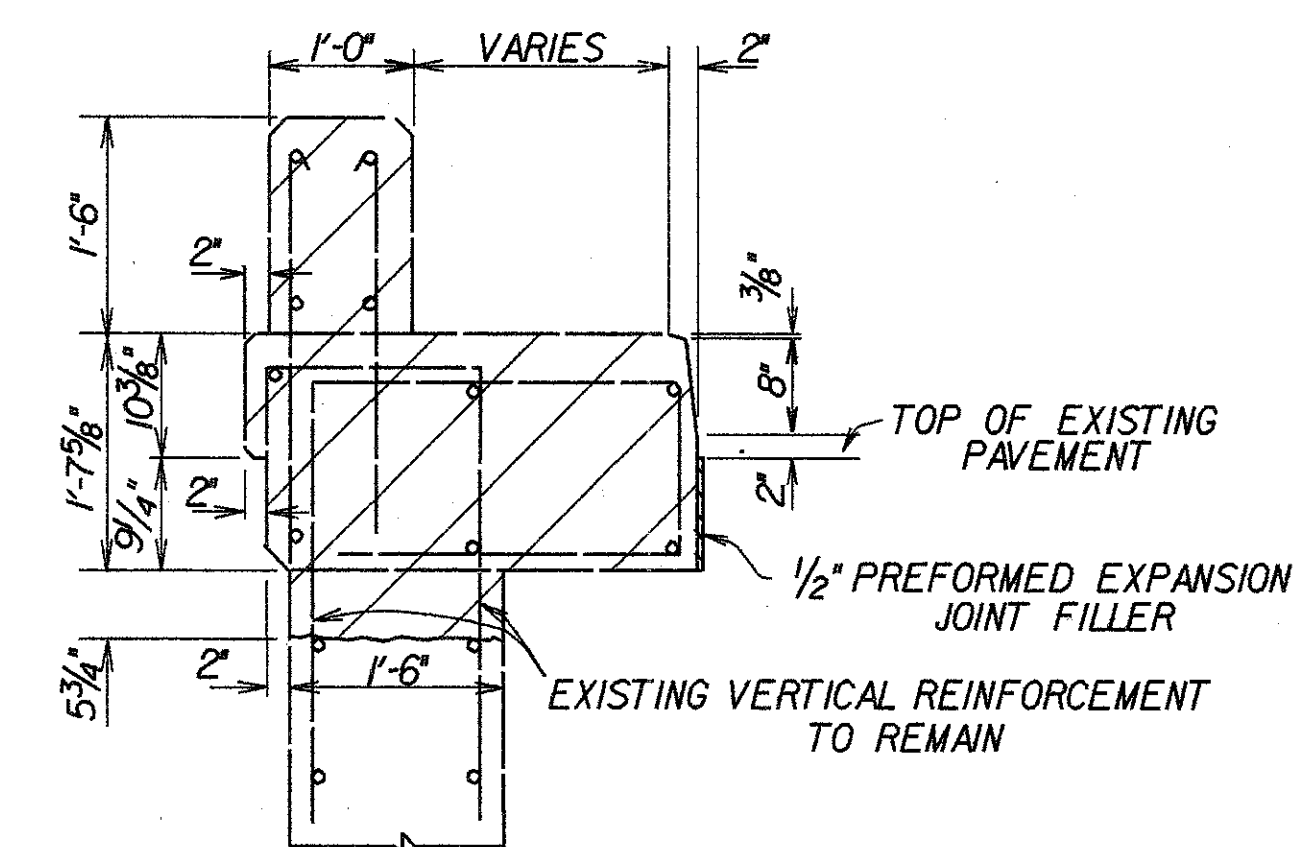
 Removal Limits



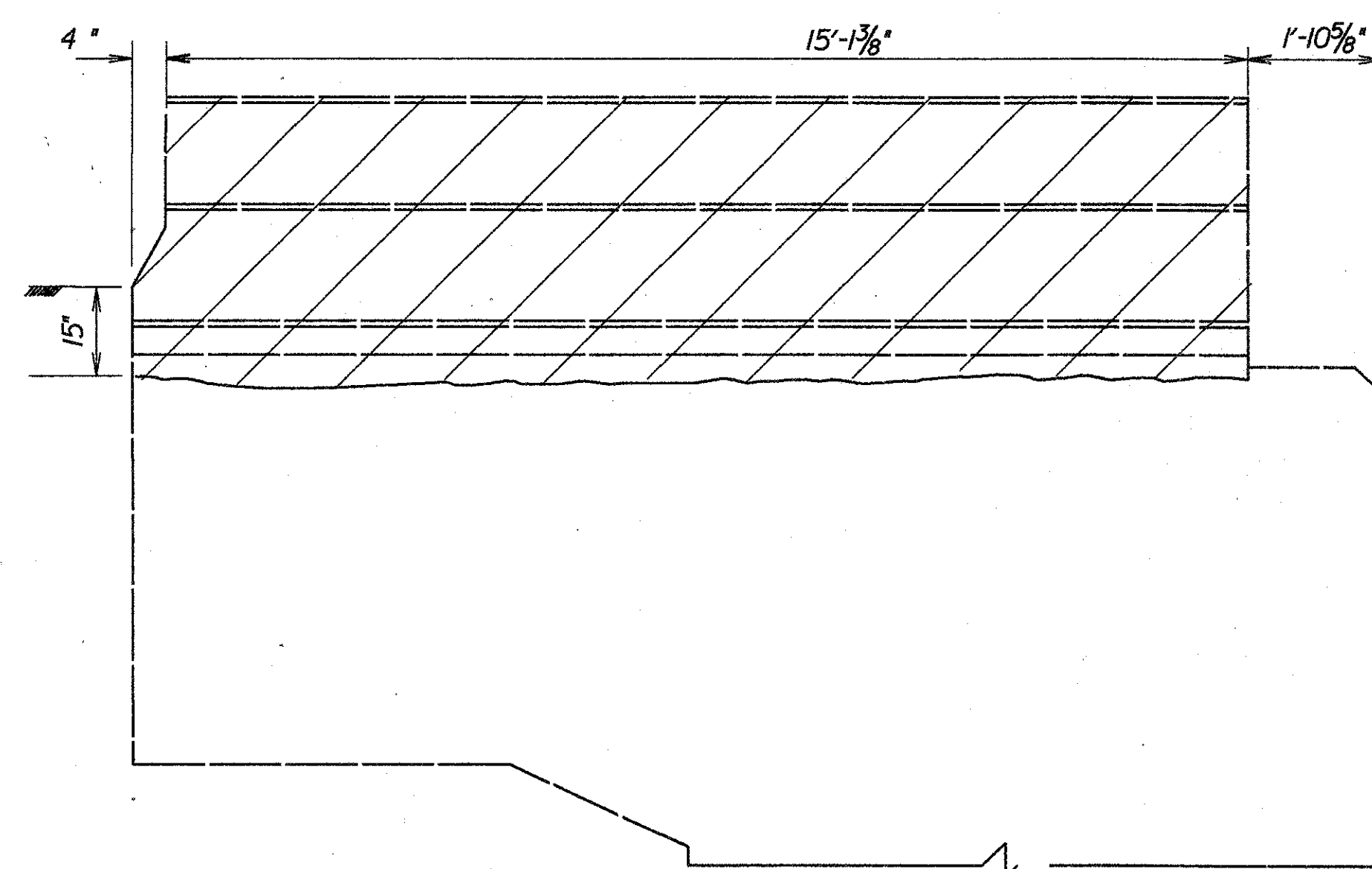
PLAN



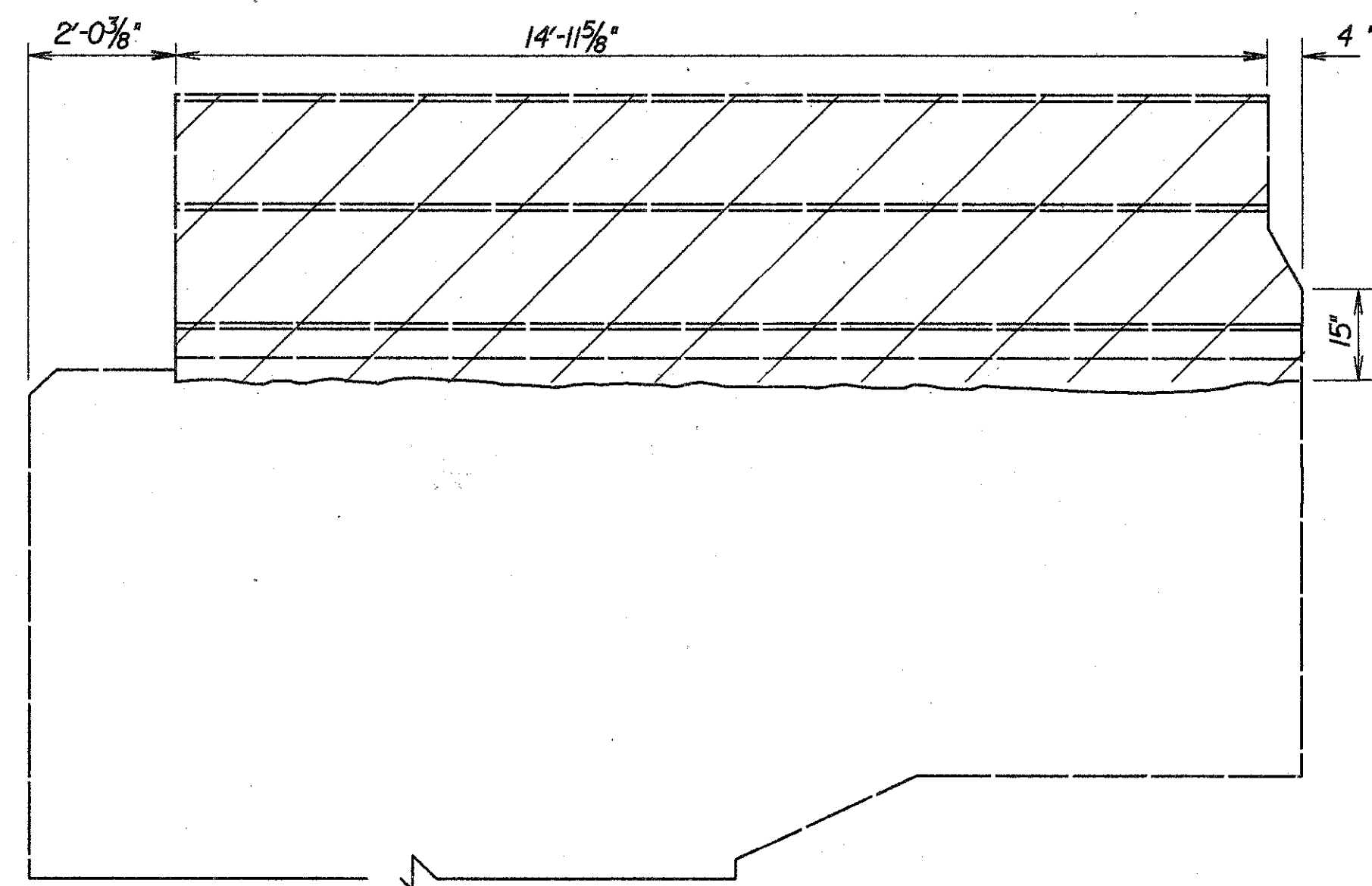
SECTION D-D



SECTION C-C



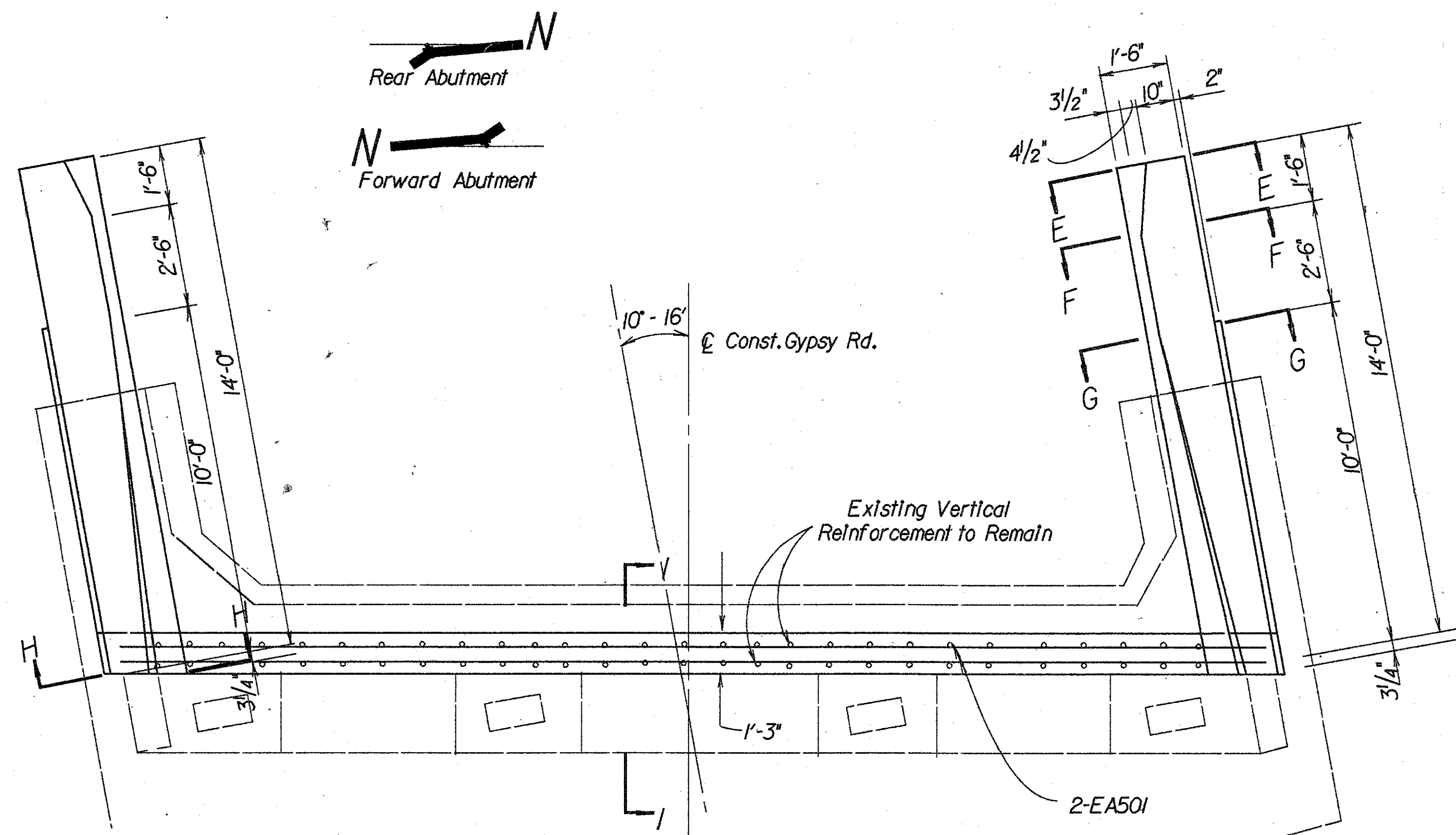
WINGWALL ELEVATION
VIEW A-A



WINGWALL ELEVATION
VIEW B-B

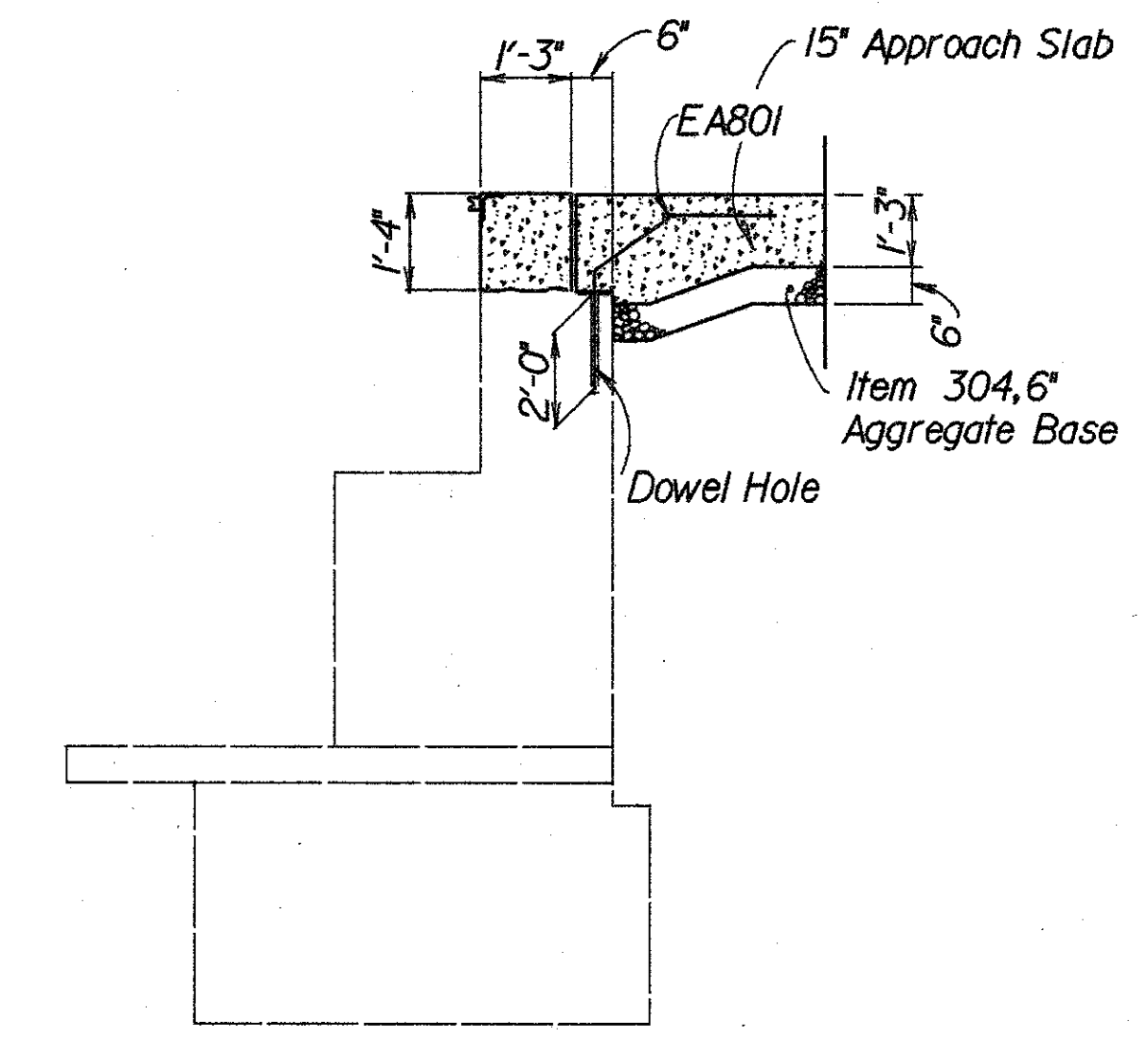
STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES							3 / 8
EXISTING ABUTMENT AND WINGWALL REMOVAL DETAILS BRIDGE NO. W00-75-1333 GYPSY LANE ROAD							
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED	
MTG			GG	LCL	7/14/92		

ZFAH200.210JW75GLSD1.DGN



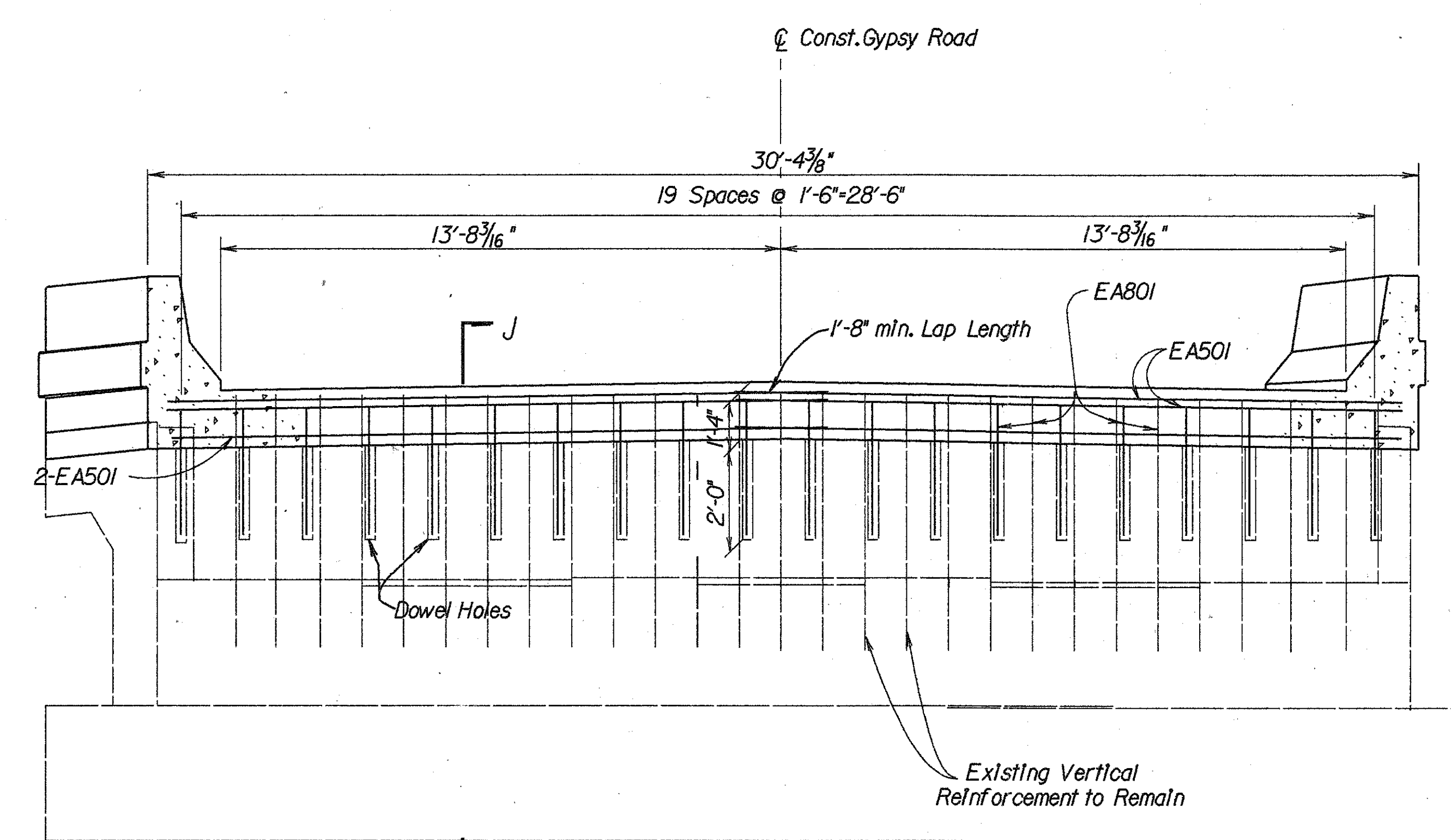
PLAN VIEW

See Sht. 7/8 for Sections E, F, G and H

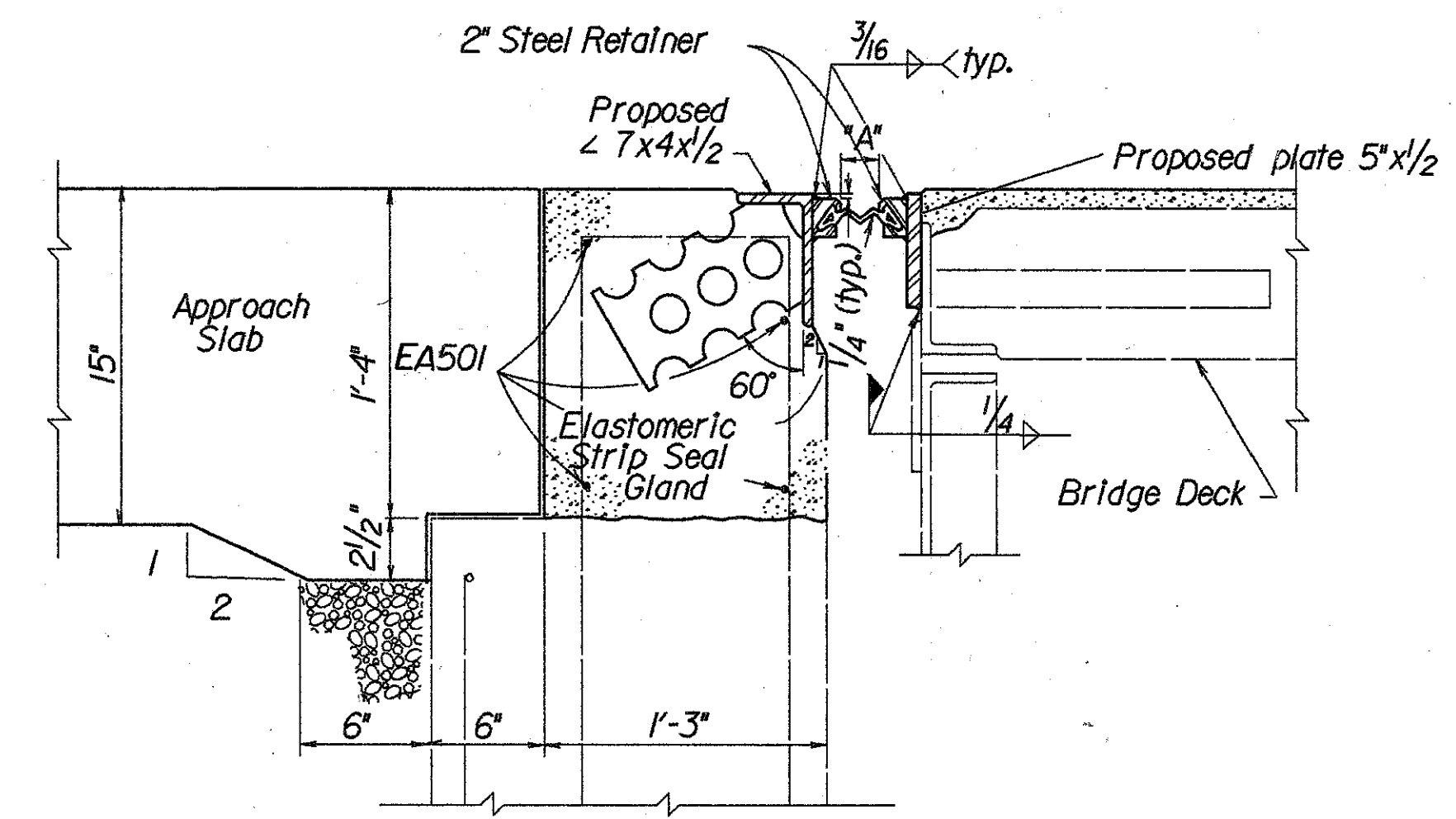


SECTION J-J

NOTE: For Additional Expansion Joint Details See Std. Drwg. EXJ-4-87



ELEVATION VIEW

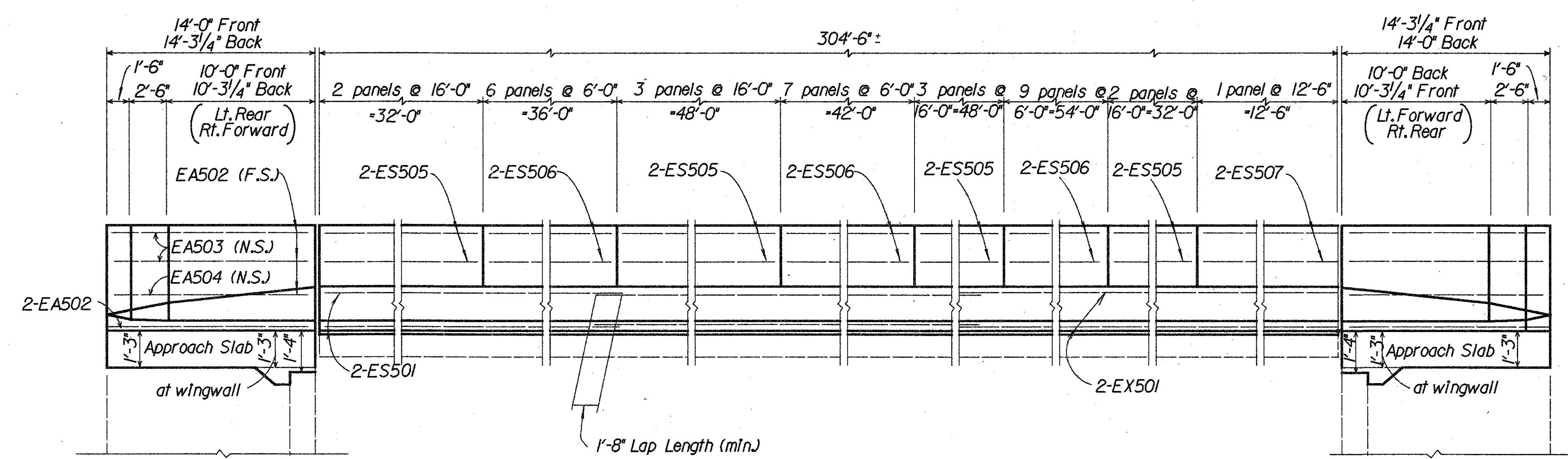


SECTION I-I

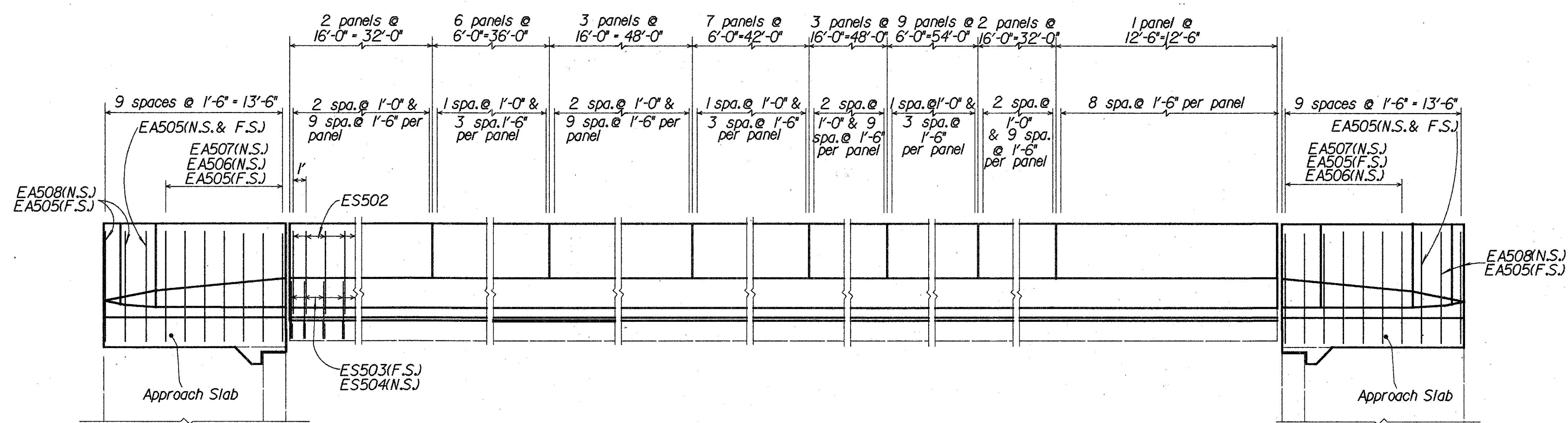
ZF A4L200.230JMT5GLSD5.DGN

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES							4 / 8
EXPANSION JOINT, AS PER PLAN B, ABUTMENT AND WINGWALL REHABILITATION DETAILS BRIDGE NO. W00-75-1333 GYPSY LANE ROAD							
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED	
MTG			GG	LCL	7/14/92		

LEGEND
 (N.S.) Near Side
 (F.S.) Far Side



Elevation
 Horizontal reinforcement in Deflector Parapet



Elevation
 Vertical reinforcement in Deflector Parapet

Z:\FA11\2002101\W75GL\SD3.DGN1

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES							5 / 8
PARAPET DETAILS BRIDGE NO. WOO-75-1333 GYPSY LANE ROAD							
DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	REVISED	
MTG			GG	LCL	7/14/92		

FHWA REGION	STATE	PROJECT
5	OHIO	

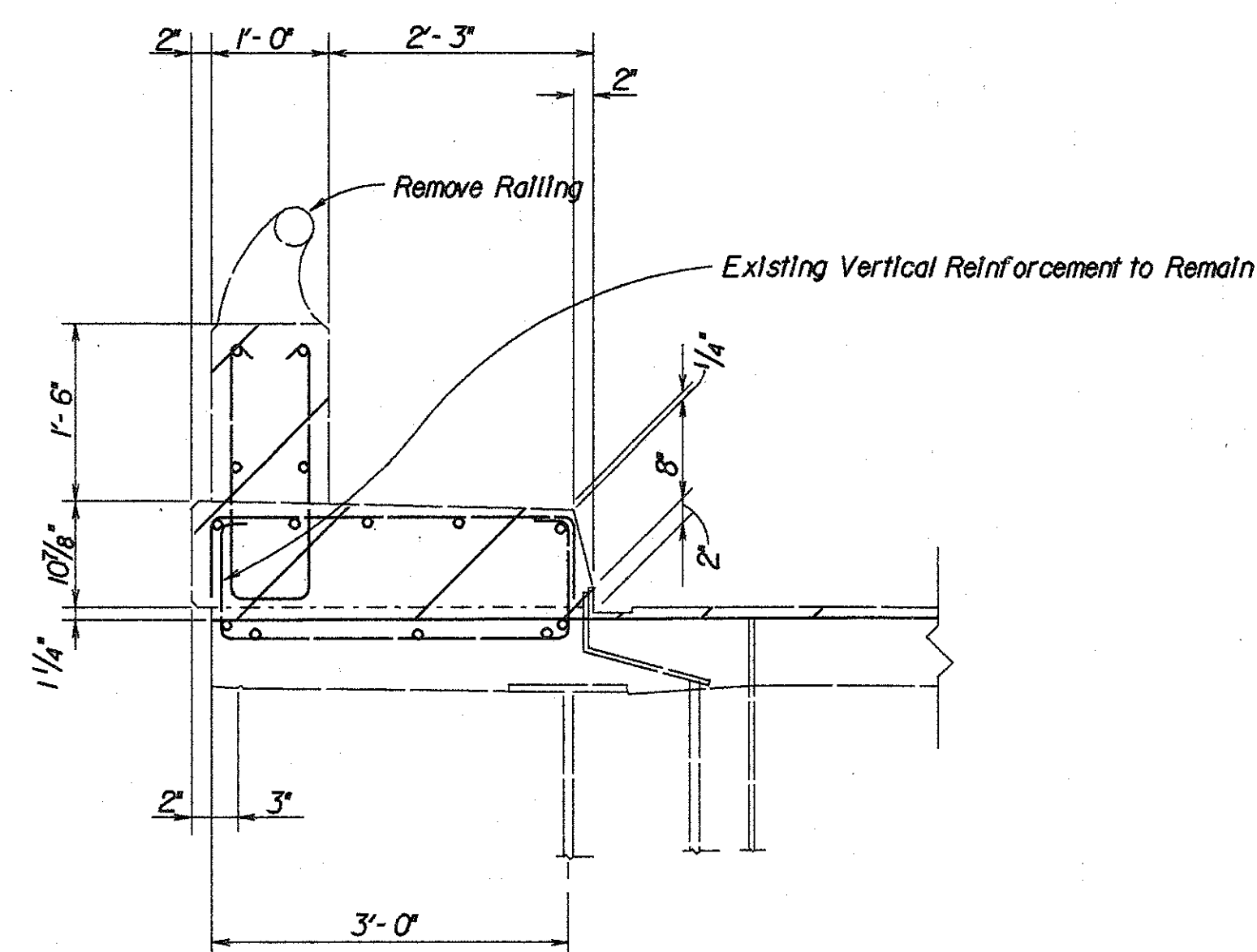
101
116

W00-75-3.01 (various)

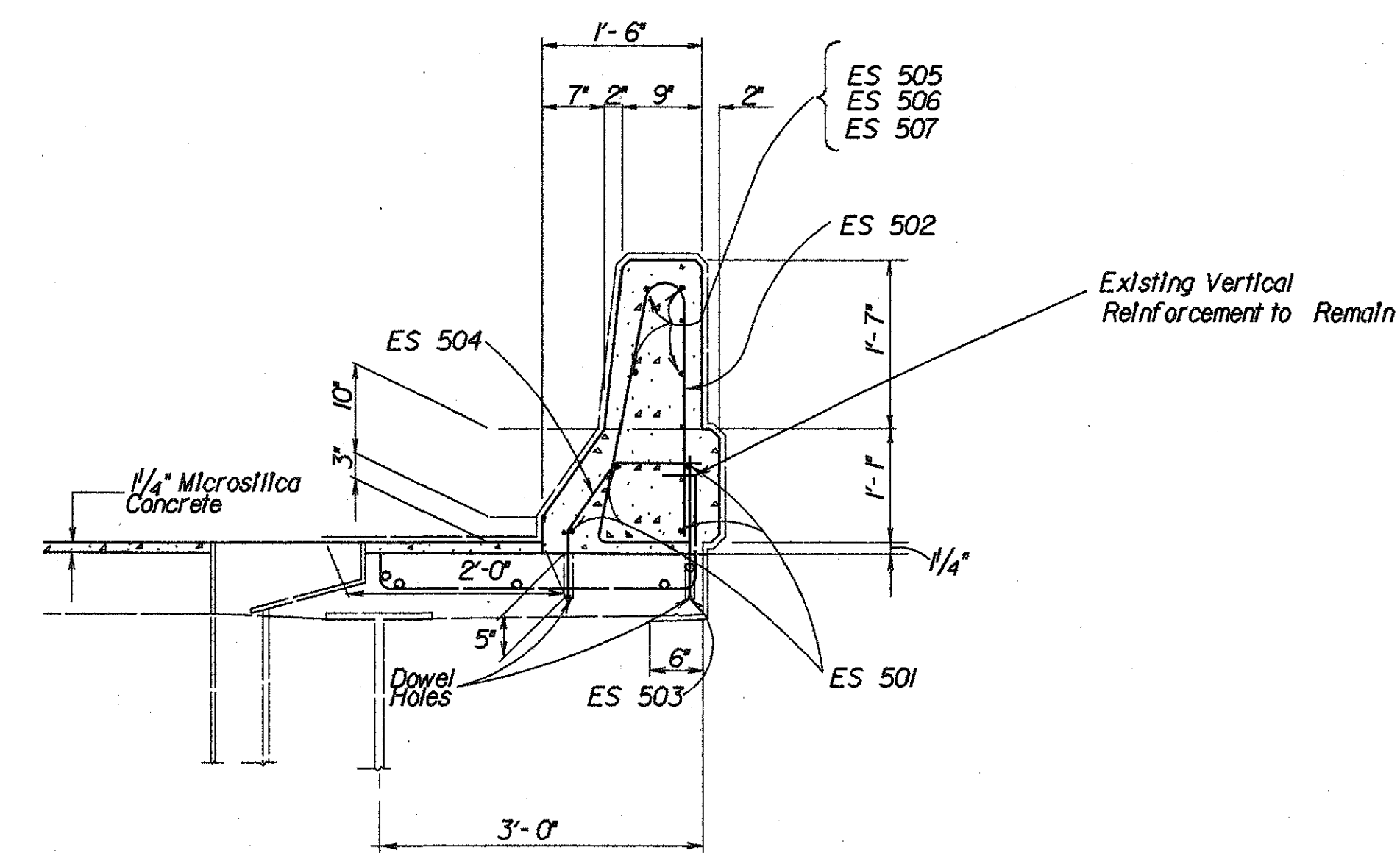
6
8

LEGEND

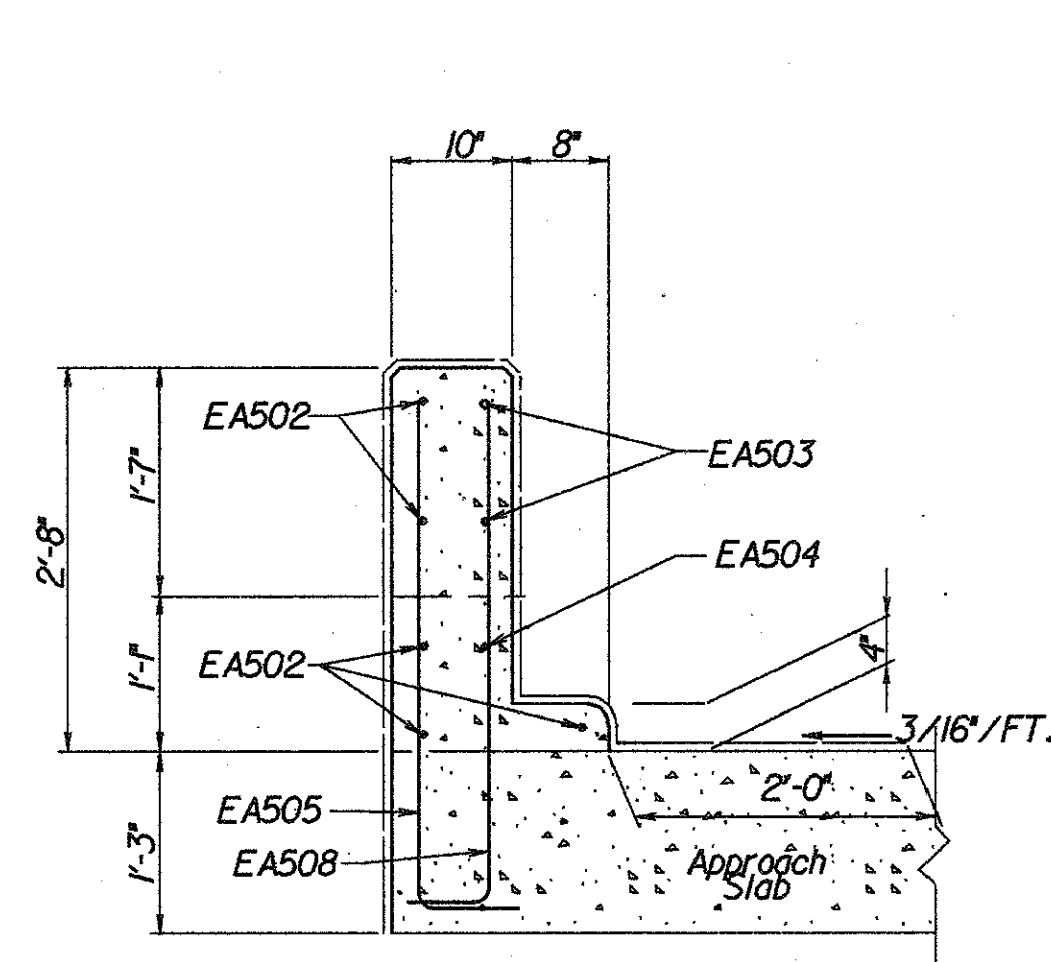
- Limits for Sealing of Concrete Surfaces
- ▨ Removal Limits



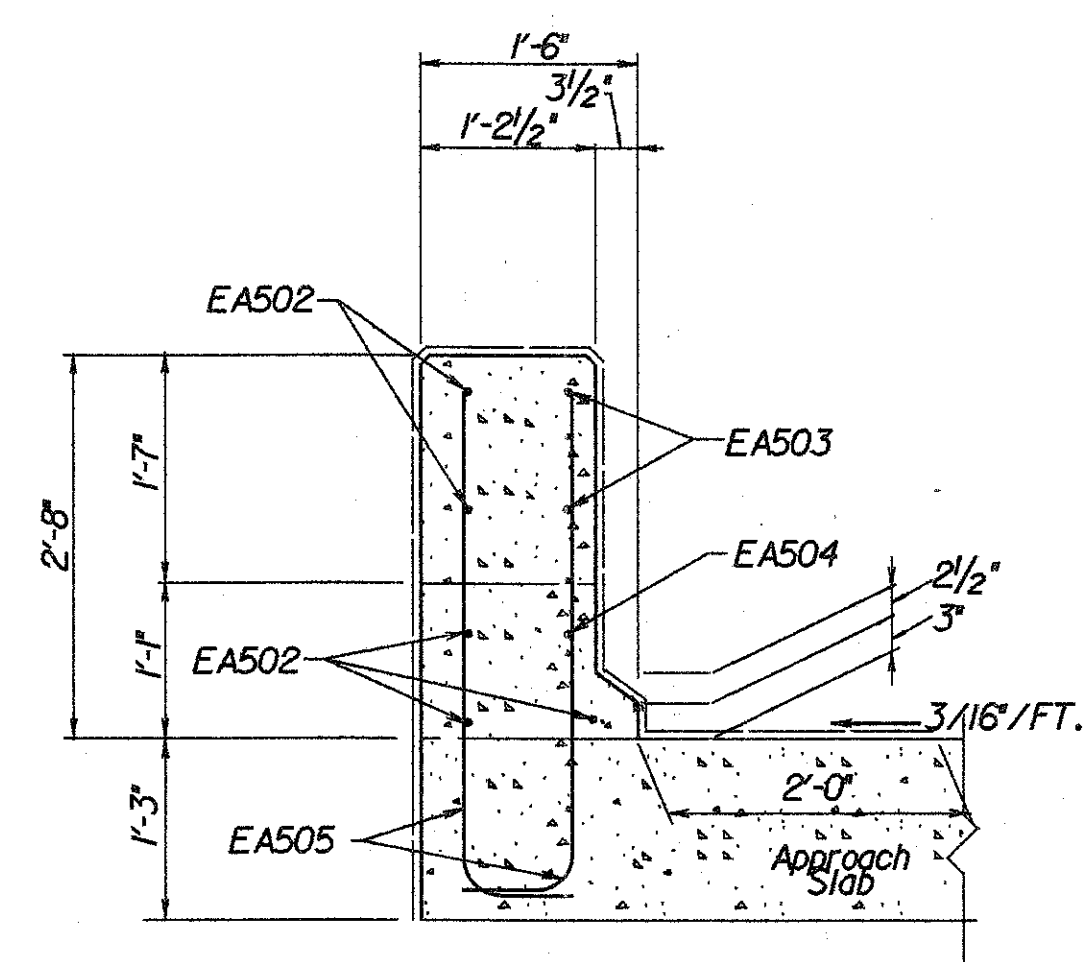
CROSS SECTION OF EXISTING
PARAPET ON STRUCTURE



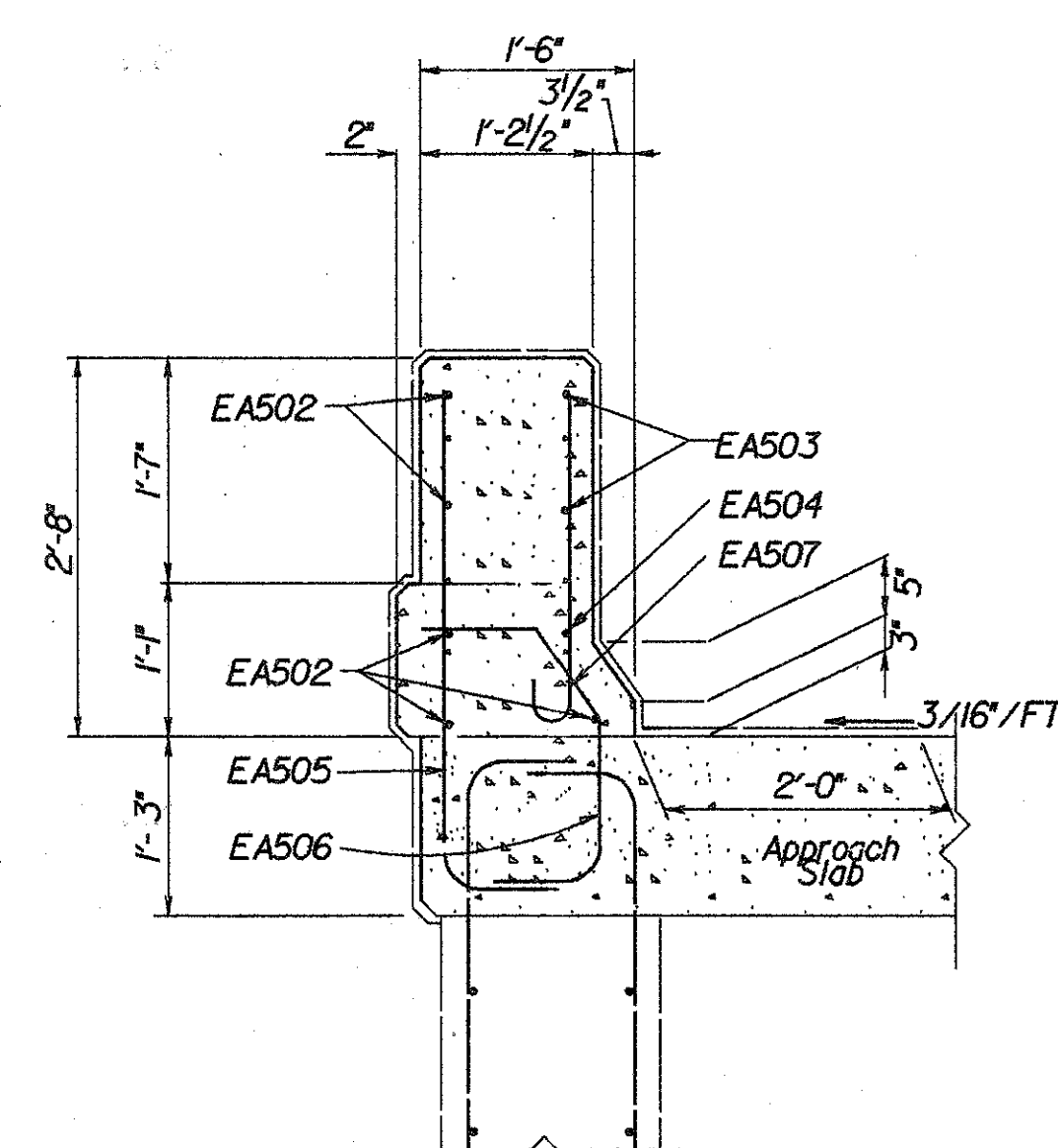
CROSS SECTION OF PROPOSED
PARAPET ON STRUCTURE



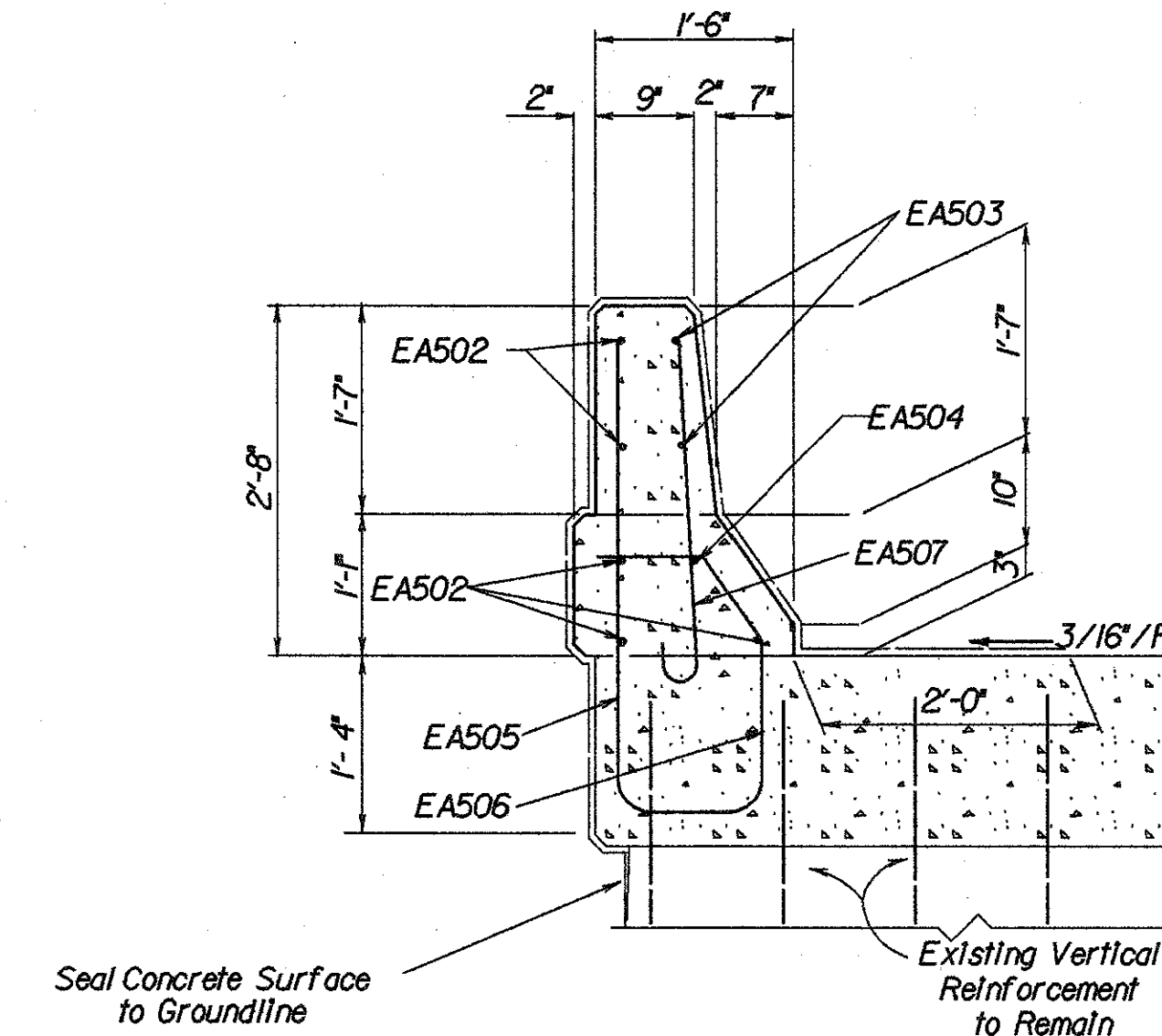
SECTION E-E



SECTION F-F



SECTION G-G



SECTION H-H

ZFA1:2002101W75GLSD4 .DGN

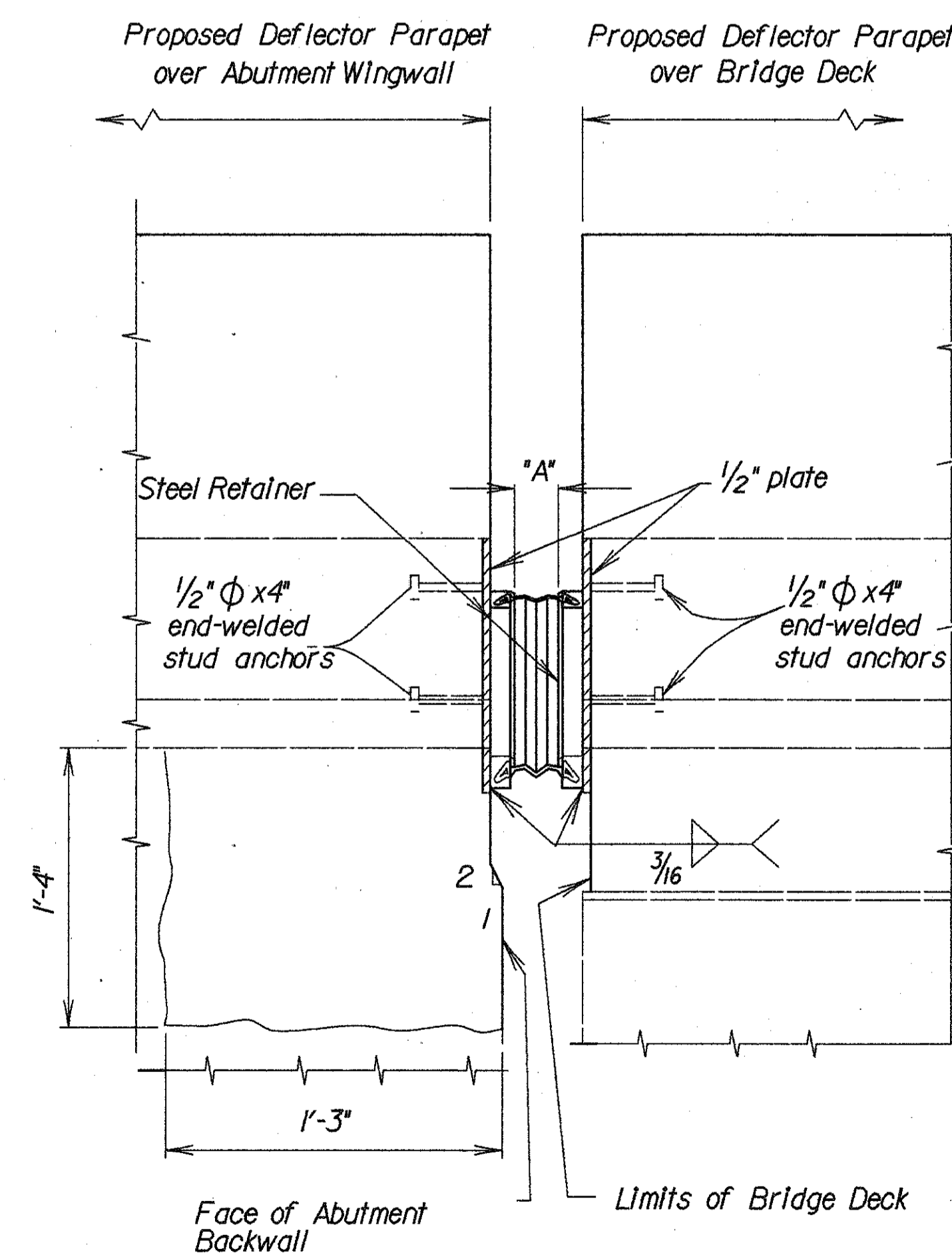
STATE OF OHIO DEPARTMENT OF TRANSPORTATION BUREAU OF LOCATION AND DESIGN						6 / 8
PARAPET DETAILS						
BRIDGE No. W00-75-1333						
GYPSY LANE ROAD						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED	
MTG			GG	LLL 7/14/92		

STRIP SEAL INFORMATION

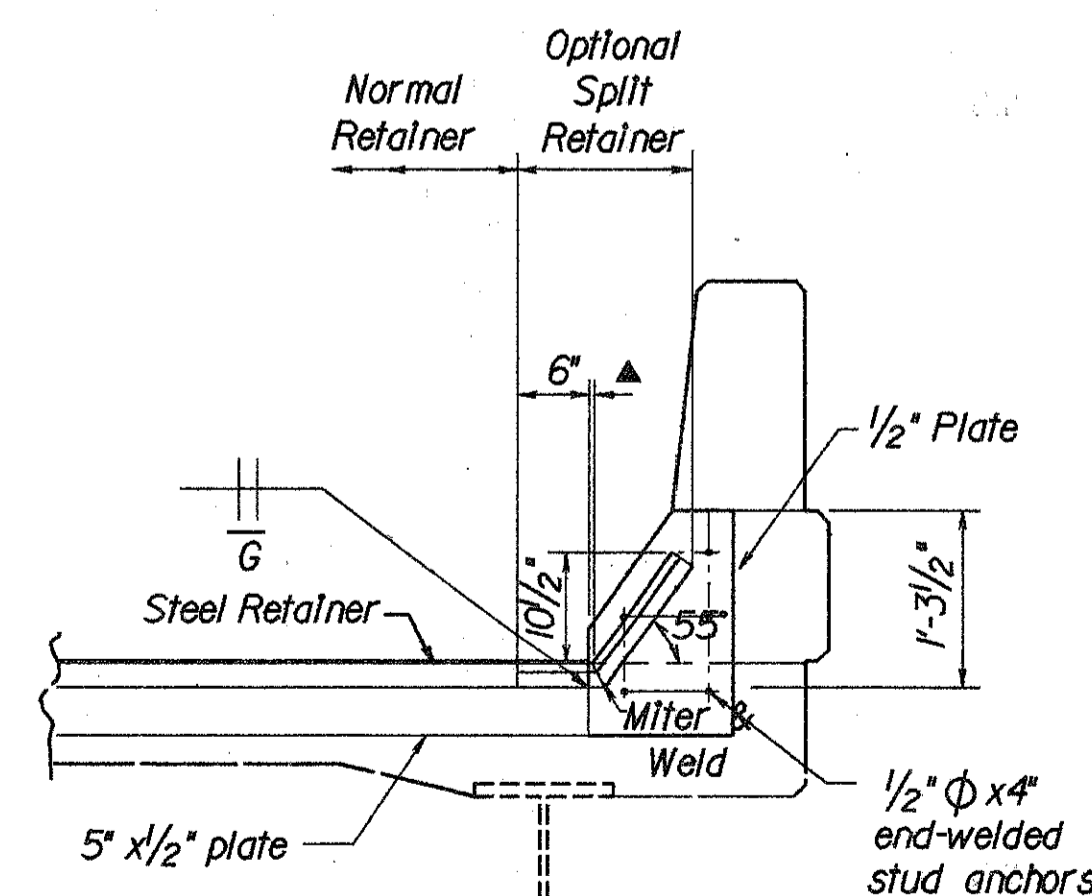
TEMPERATURE, °F	DIMENSION "A", INCHES	
	REAR ABUTMENT	FORWARD ABUTMENT
30	2	2
40	1 1/8	1 1/8
50	1 1/4	1 1/4
60	1 5/8	1 5/8
70	1 1/2	1 1/2
80	1 7/8	1 7/8
90	1 1/4	1 1/4
REQUIRED SEAL SIZE	3"	3"

STRIP SEAL DATA

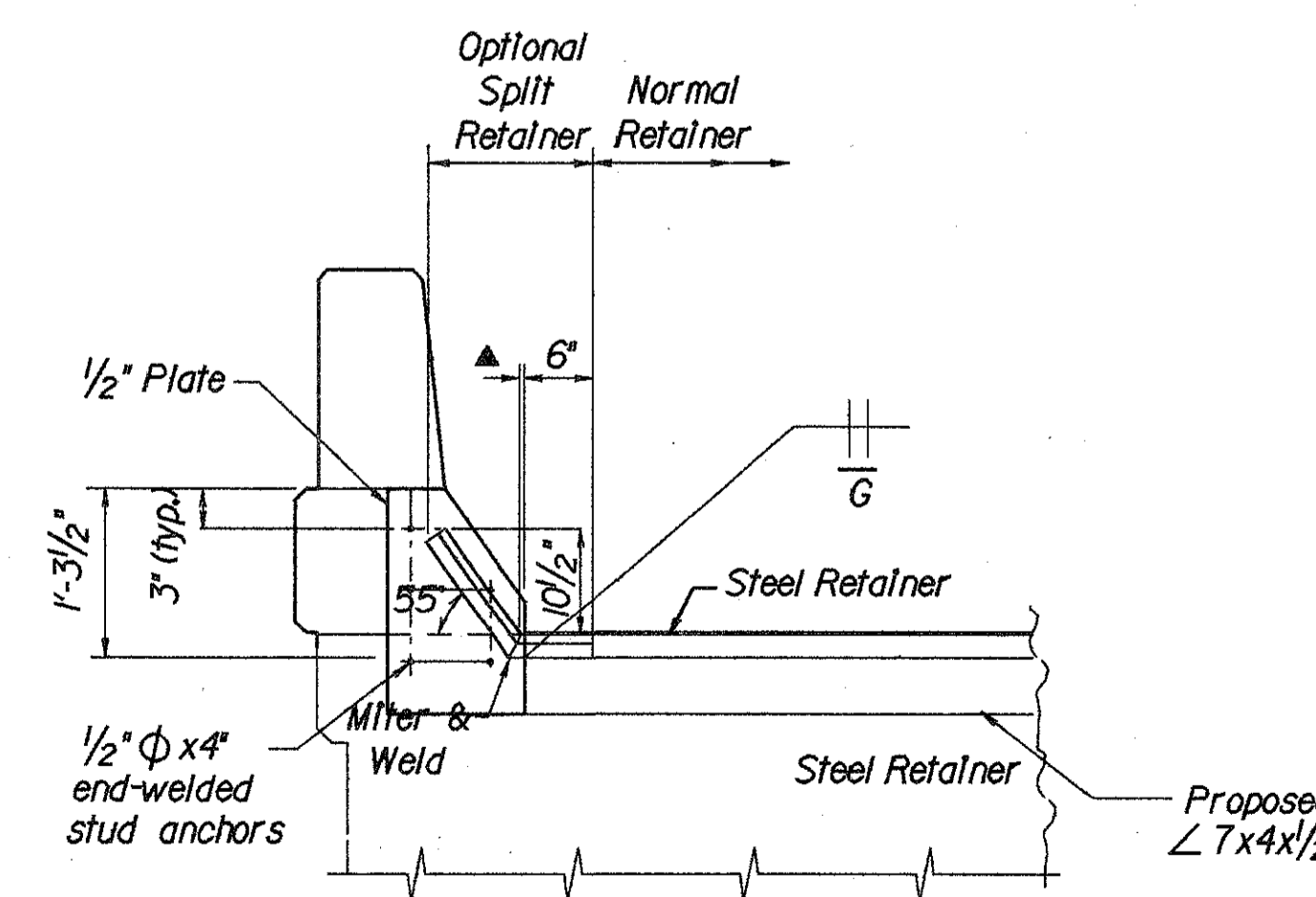
SEAL SIZE	THE D.S. BROWN COMPANY	STRUCTURAL ACCESSORIES INC.	WATSON-BOWMAN & ACME CORP.
3"	300 L	40-SEQ	SE-300



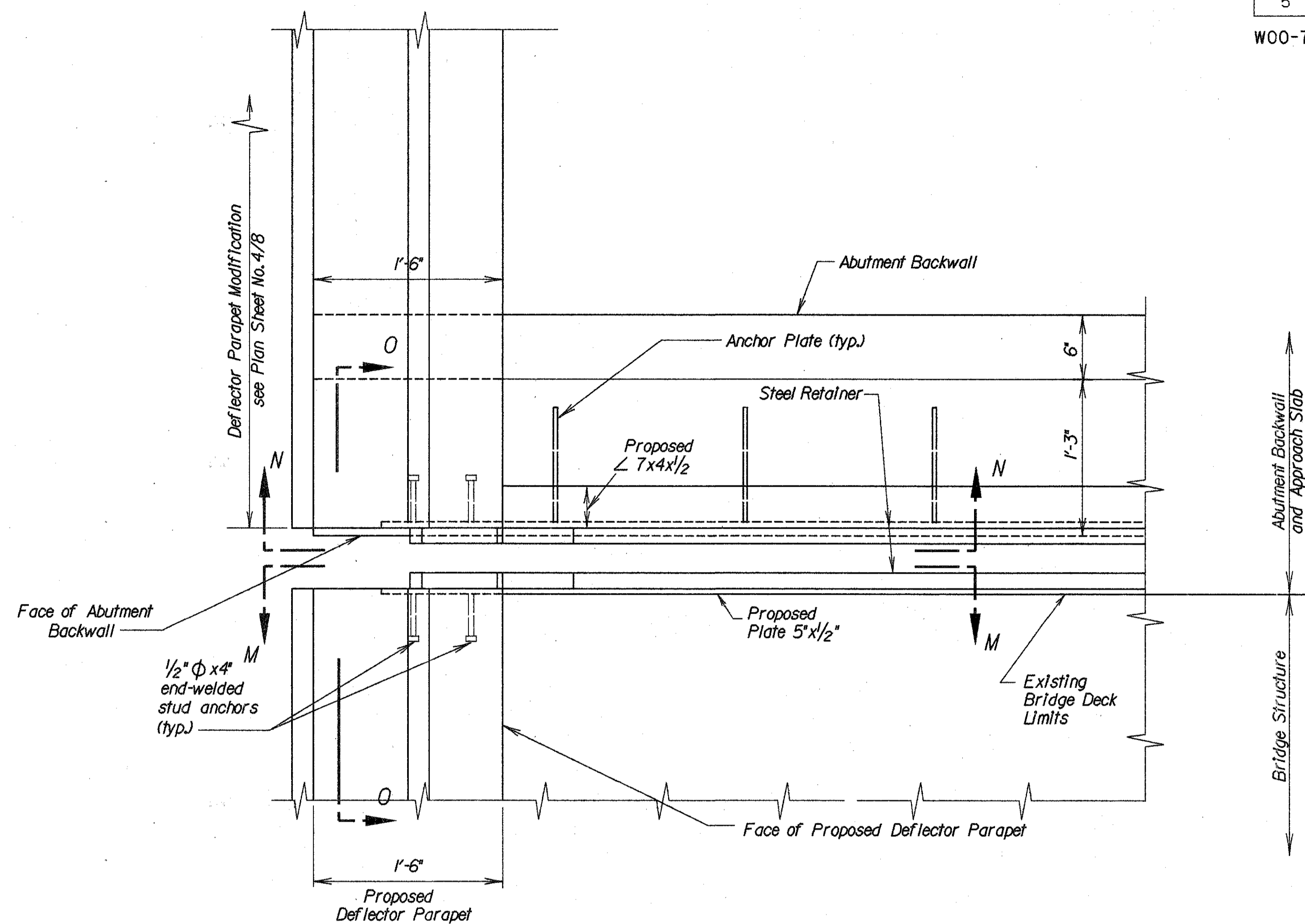
~SECTION 0-0~



▲ 0" min, 1/2" max. to breakpoint
~SECTION M-M~



▲ 0" min, 1/2" max. to breakpoint
~SECTION N-N~

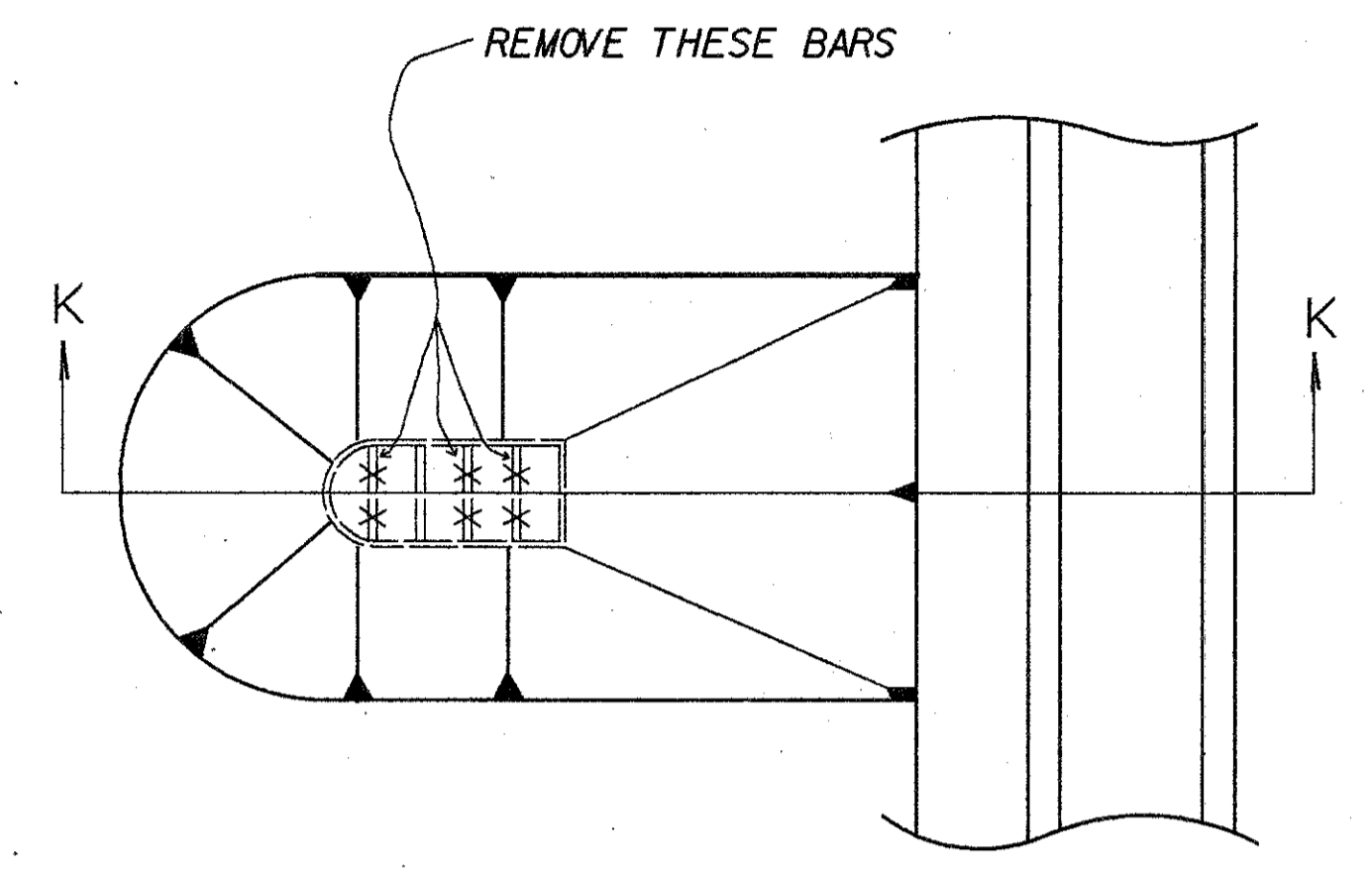


~PLAN VIEW~

ZFAI:12002101W756LSD2 .DGN:1

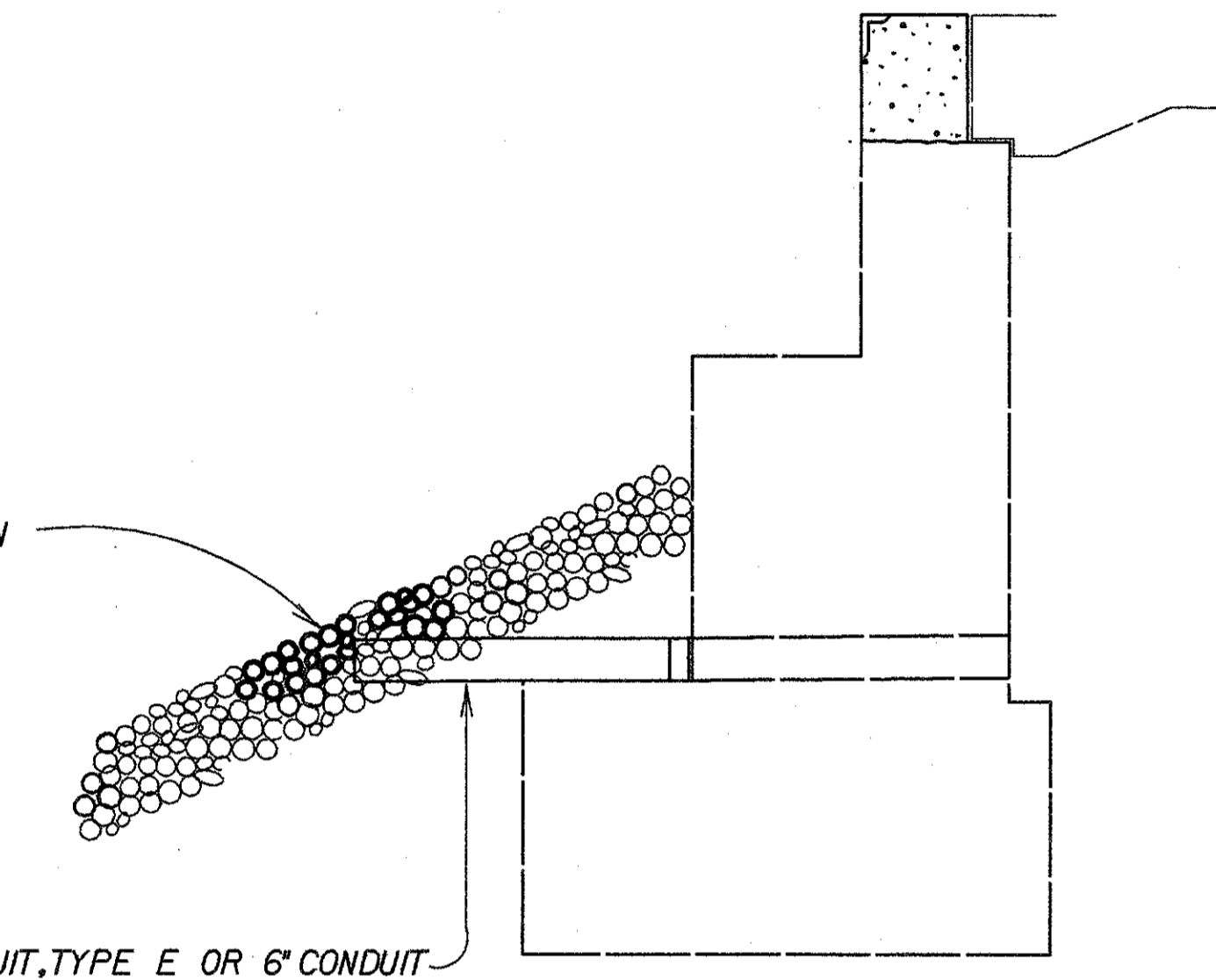
STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES						7 / 8
EXPANSION JOINT, AS PER PLAN B, DETAILS						
BRIDGE NO. W00-75-1333						
GYPSY LANE ROAD						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MTG			GG	GLL	7/14/92	

SCUPPER DETAIL

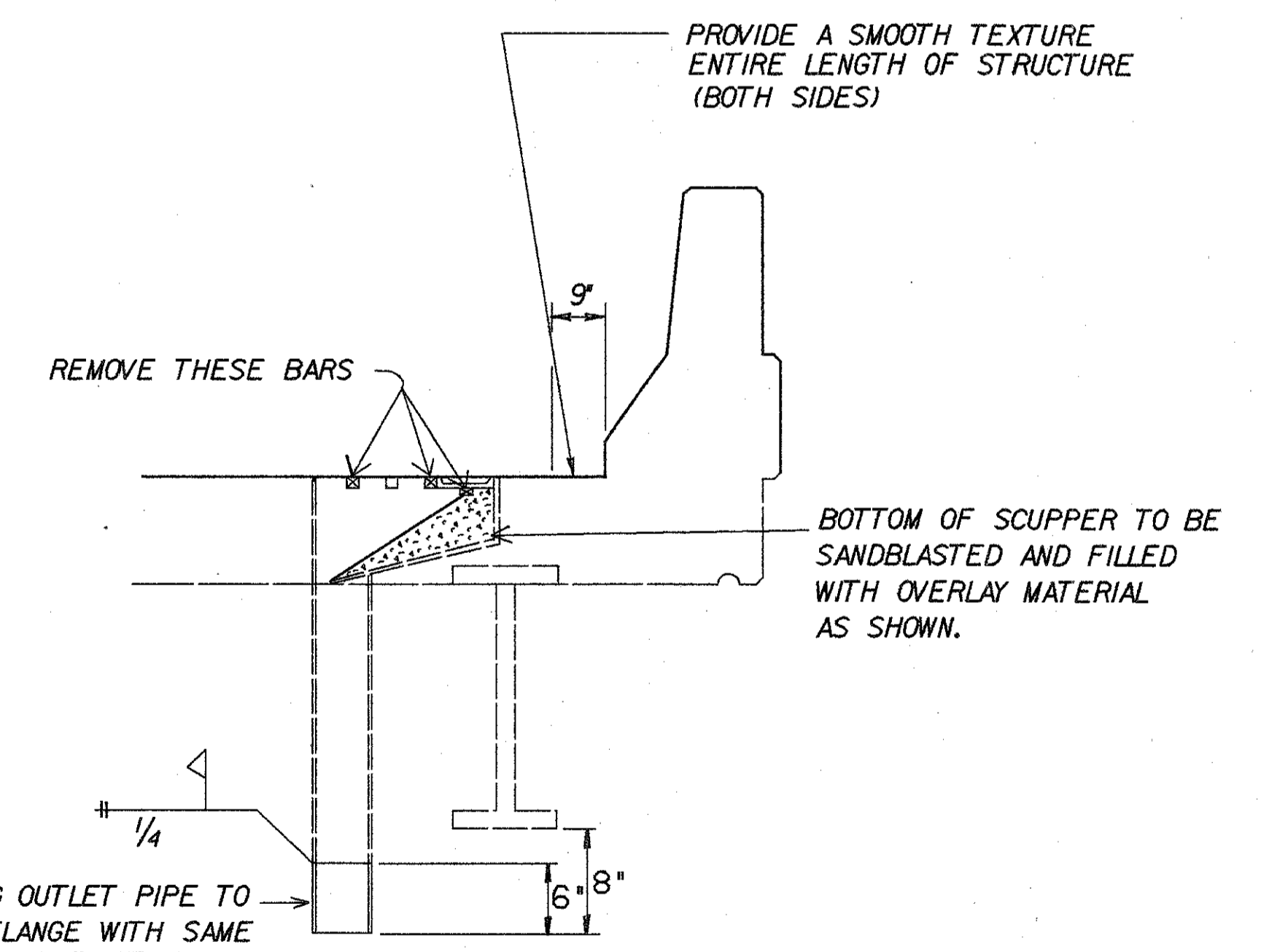


PLAN VIEW

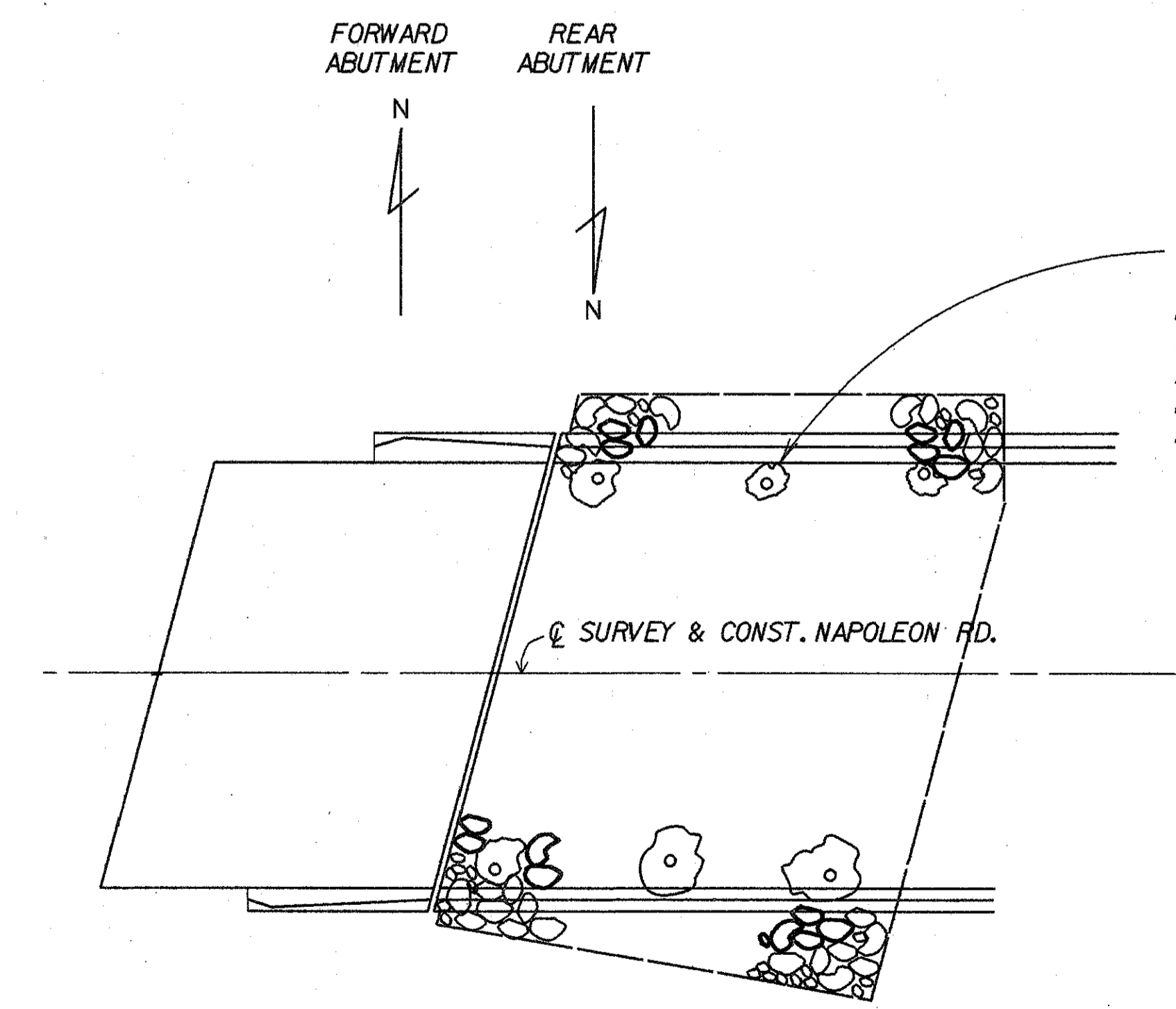
ESTIMATED QUANTITY 25 CU.YD. OF ITEM 601, CRUSHED AGGREGATE SLOPE PROTECTION TO BE USED AS DIRECTED BY THE ENGINEER FOR LEVELING THE EXISTING SLOPE PROTECTION



ELEVATION



SECTION U-U



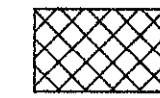
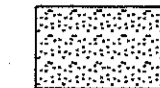
PLAN

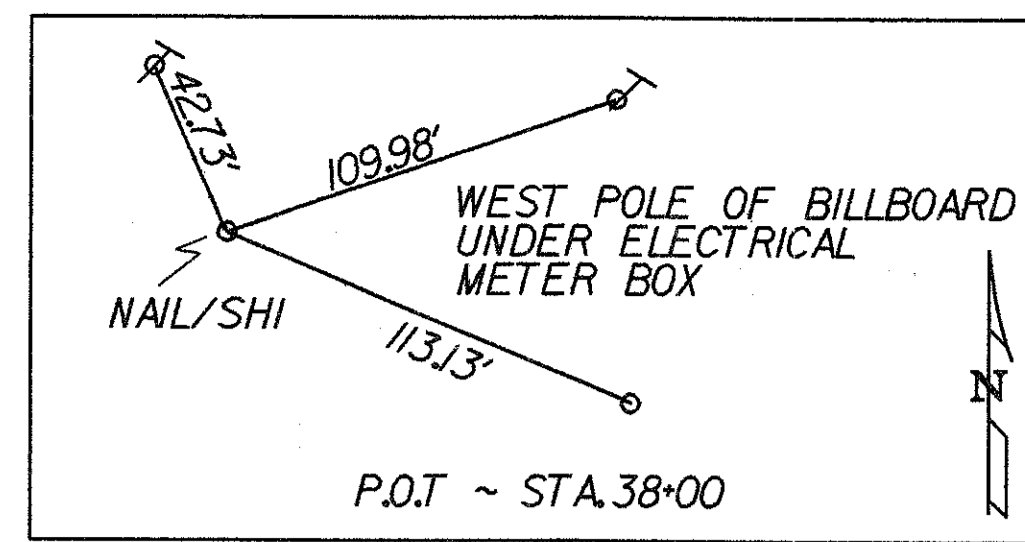
THE EXISTING AND PROPOSED CRUSHED AGGREGATE SLOPE PROTECTION DIRECTLY UNDER THE BRIDGE DRAINAGE SCUPPERS SHALL BE PROTECTED BY GROUTING A 5' X 5' AREA OF AGGREGATE AS PER 601.03. AN ESTIMATED QUANTITY OF 34 SQ.YDS. SHALL BE USED AS DIRECTED BY THE ENGINEER FOR THIS PURPOSE.

ZFA1:2002101W750LSC .DGN1



STATE OF OHIO		8 / 8	
DISTRICT 2		DESIGN & PLANNING OFFICE	
MISCELLANEOUS DETAILS			
BRIDGE NO. W00-75-1333			
GYPSY LANE ROAD			
DESIGNED	DRAWN	TRACED	CHECKED
MTG			GG
REVIEWED DATE	REVIS		
LCL 7/14/82			

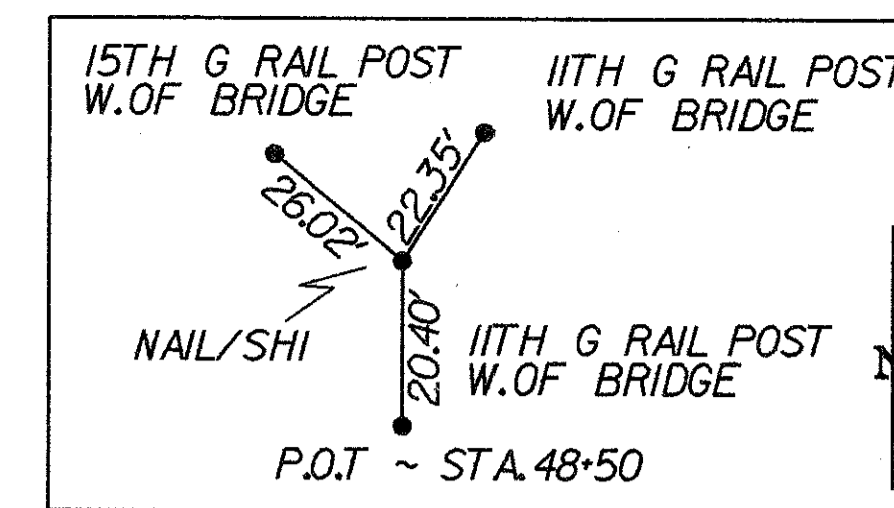
PAVEMENT LEGEND

-  FEATHERED AREAS W/BUTT JOINT AS PER BP-3J
-  4' WIDE BITUMINOUS SURFACE TREATED SHOULDER



SIGN LEGEND

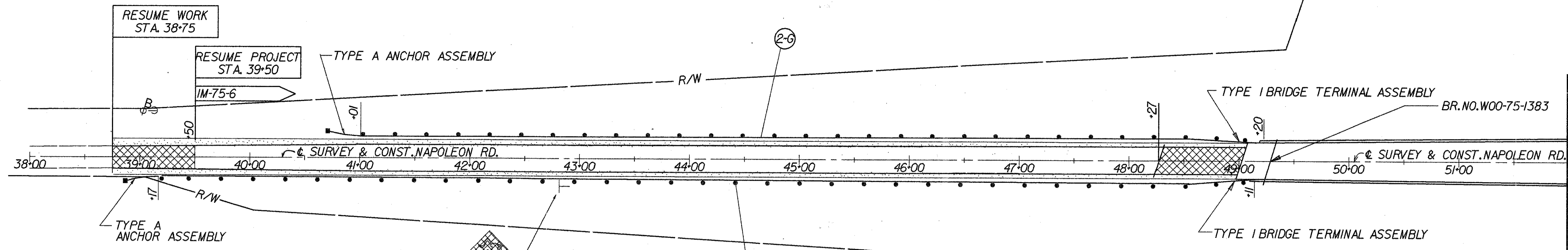
-  EXISTING TO BE REMOVED
-  NEW SIGN



FHWA REGION	STATE	PROJECT
5	OHIO	

104
116

W00-75-3.01 (VARIOUS)



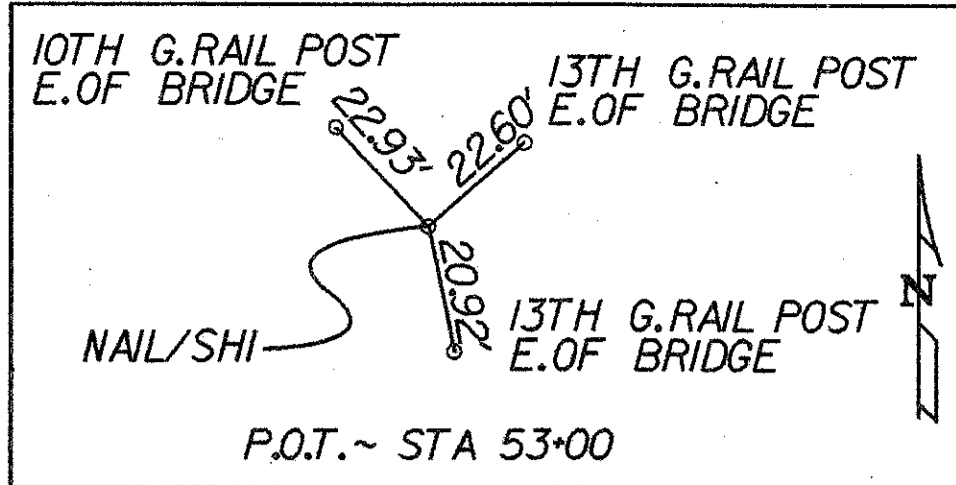
BM ~ STA. 39+03.42' LT. OF & SURVEY SQ. HEADED NAIL IN N. SIDE BRACE POLE ELEV. 676.22

BM ~ STA. 49+25.185' RT. OF & SURVEY SCRATCH ON FACE OF S.W. WINGWALL ELEV. 694.22



ZFA1:2001001W75NA38P .DGN:1

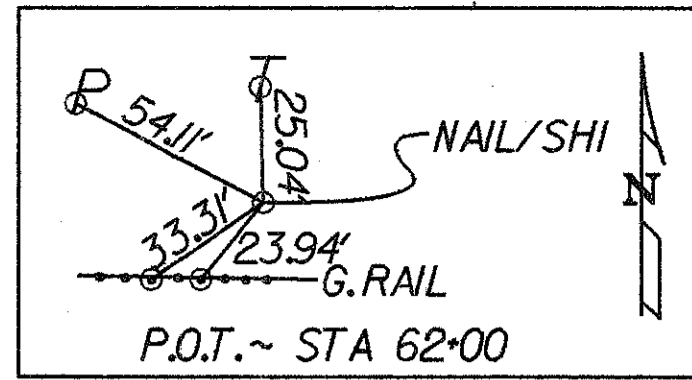
STA. 38 + 00 TO STA. 52 + 00 NAPOLEON RD.



SIGN LEGEND

EXISTING TO BE REMOVED

NEW SIGN

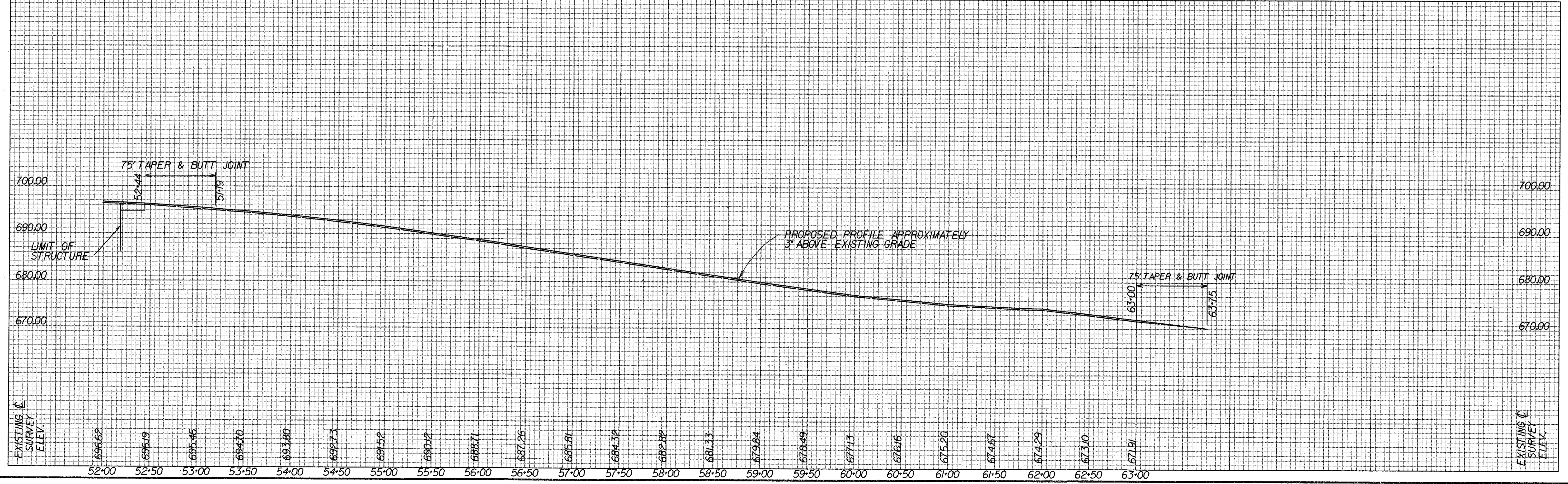
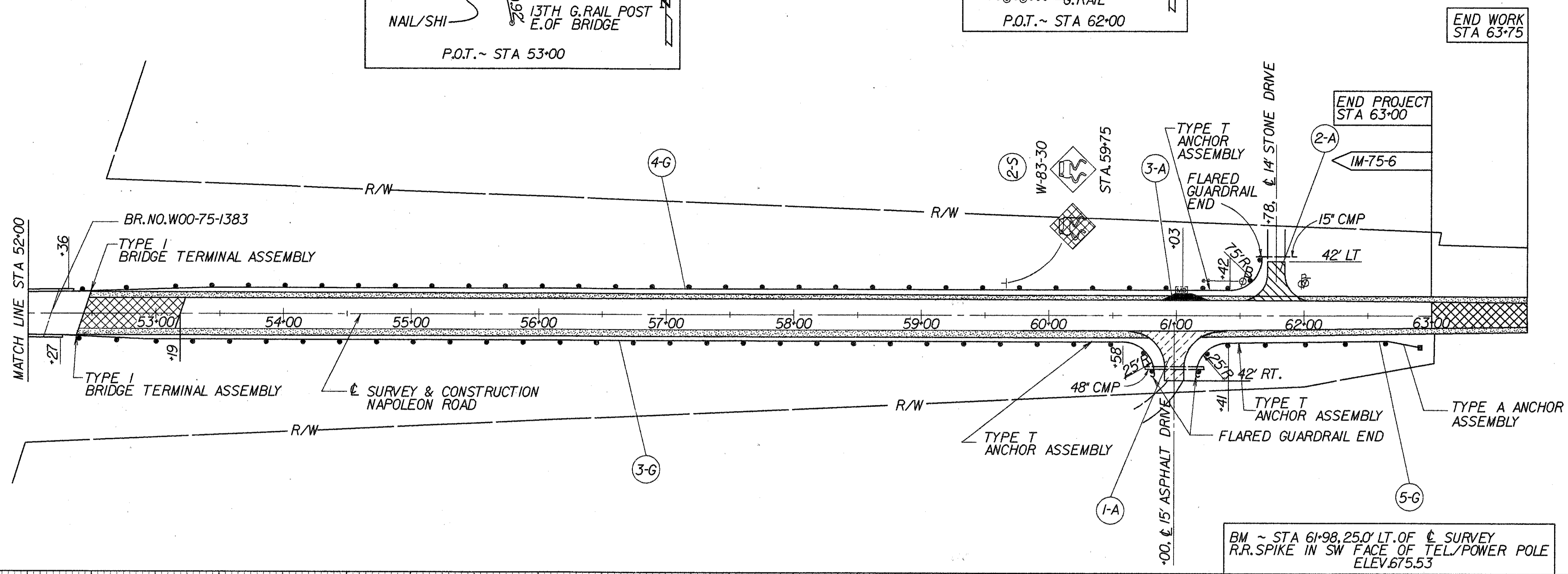


FHWA REGION	STATE	PROJECT
5	OHIO	

105
116

W00-75-3.01 (VARIOUS)

- PAVEMENT LEGEND
- FEATHERED AREA W/ BUTT JOINT AS PER BP-3J
 - 4' WIDE BITUMINOUS SURFACE TREATED SHOULDER
 - AGGREGATE DRIVE FEATHERED TO GRADE W/ ITEM 304
 - BITUMINOUS SURFACE TREATED MAILBOX APPROACH
 - ASPHALT APPROACH FEATHER TO EXISTING



STA. 52 + 00 TO STA. 63 + 75 NAPOLEON RD

QUANTITIES
CALC. BY GG DATE 3-23-92
CKD. BY MTG DATE 3-24-92

SUBSUMMARY

ITEM	EXT.	TOTAL	UNIT	DESCRIPTION
-ROADWAY-				
202	22900	181	SQ. YD.	APPROACH SLAB REMOVED (T = 13")
202	23500	312	SQ. YD.	WEARING COURSE REMOVED
202	38000	3617	LIN. FT.	GUARDRAIL REMOVED
202	98100	1	EACH	MAILBOX SUPPORT REMOVED, AS PER PLAN
203	12000	472	CU. YD.	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION
203	50000	190	SQ. YD.	SUBGRADE COMPACTION
606	13000	3787.5	LIN. FT.	GUARDRAIL, TYPE 5
606	25000	3	EACH	ANCHOR ASSEMBLY, TYPE A
606	26500	3	EACH	ANCHOR ASSEMBLY, TYPE T
606	35000	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1
SPECIAL	69050200	1	EACH	MAILBOX SUPPORT SYSTEM, DOUBLE
802	00300	42	EACH	BARRIER REFLECTOR, TYPE A2 (WHITE)
802	00400	6	EACH	BARRIER REFLECTOR, TYPE A2 (WHITE)
-PAVEMENT-				
304	20001	465	CU. YD.	AGGREGATE BASE, AS PER PLAN
402	20000	285	CU. YD.	ASPHALT CONCRETE, AC-20
404	20000	203	CU. YD.	ASPHALT CONCRETE, AC-20
407	10000	293	GALLON	TACK COAT
409	12500	32	CU. YD.	SEAL COAT COVER AGGREGATE, NO. 8 FOR SHOULDERS
409	21000	1154	GALLON	SEAL COAT BITUMINOUS MATERIAL FOR SHOULDERS
611	25000	195	SQ. YD.	REINFORCED CONCRETE APPROACH SLAB (T = 15")
617	10100	107	CU. YD.	COMPACTED AGGREGATE, TYPE A
-TRAFFIC CONTROL-				
630	04100	34	LIN. FT.	GROUND MOUNTED SUPPORT, NO. 4 POST
630	80100	13	SQ. FT.	SIGN, FLAT SHEET
630	84900	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
630	86002	2	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
642	00290	0.43	MILE	CENTERLINE

PAVEMENT MARKING TABLE

	Station		Length Miles	Item	Description
	From	To			
	38+75	39+45	0.013	642	4" Yellow Centerline, Double Solid
	39+45	49+40	0.188	642	4" Yellow Centerline, Solid-Dashed
	49+40	52+31	0.055	642	4" Yellow Centerline, Double Solid
	52+31	61+65	0.177	642	4" Yellow Centerline, Solid-Dashed
Total to Subsummary			0.433		

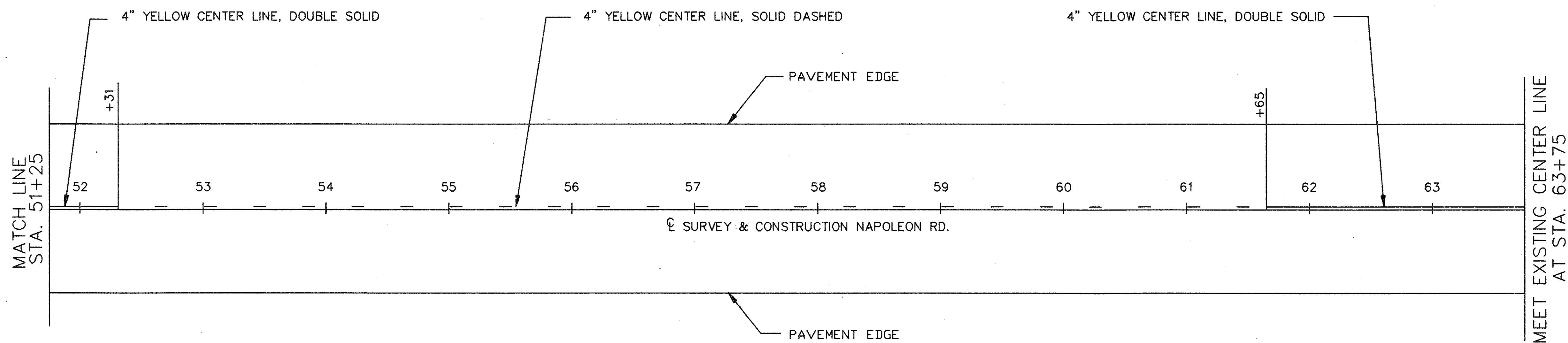
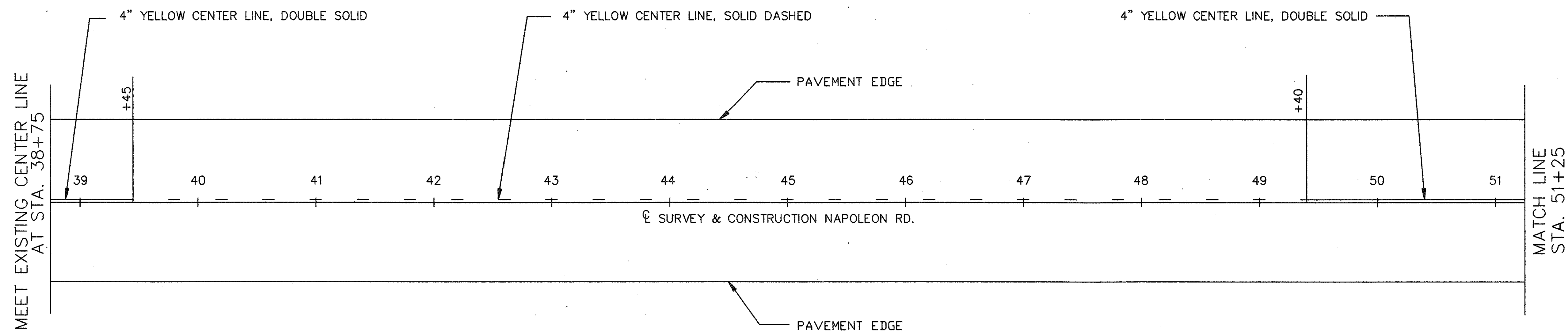
SIGN TABLE

Ref.	Station	Side	Sign Code Number	Sign in Inches	630			
					Flat Sheet Sign Sq. Ft.	Ground Mounted Support, No. 4 Post Lin. Ft.	Removal of Ground Mounted Sign And Support Each	Removal of Ground Mounted Post Support Each
1-S	42+75	RT.	W-83-30	30x30	6.25	16.5	1	1
2-S	59+75	LT.	W-83-30	30x30	6.25	17.0	1	1
Totals to Subsummary					12.50	33.5	2	2

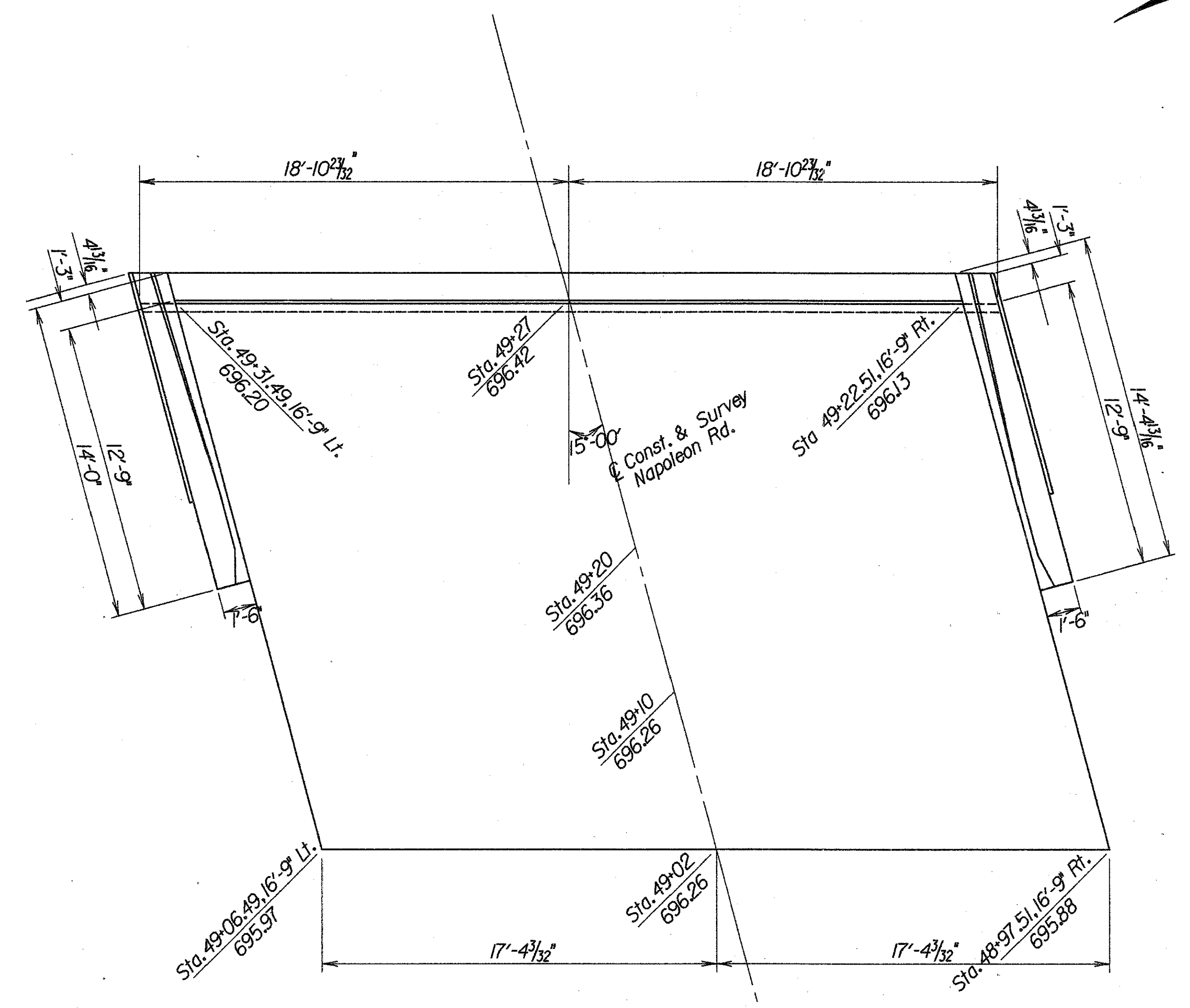
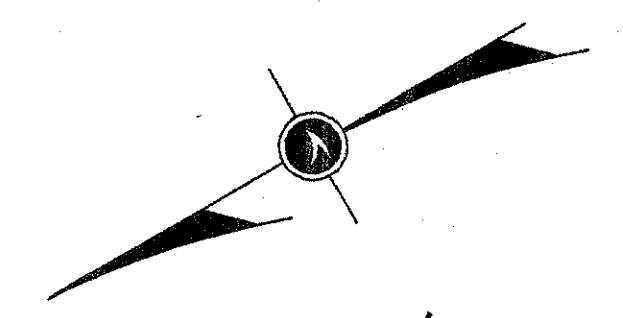
GUARDRAIL TABLE

Ref.	Station		Side	202	606	606	606	606	802	802
	From	To		Guardrail Removed Lin. Ft.	Guardrail Type 5 Lin. Ft.	Anchor Assem. Type A Each	Anchor Assem. Type T Each	Bridge Term. Assem. Type 1 Each	Barrier Reflect. Type A2 (White) Each	Barrier Reflect. Type B2 (White) Each
1-G	38+92	49+24	RT.	987.0	993.75	1		1	11	
2-G	40+76	49+33	LT.	750.0	818.75	1		1	9	
3-G	52+11	60+63	RT.	873.5	868.75		1	1	9	
4-G	52+22	61+67	LT.	800.0	943.75		1	1	10	
5-G	61+16	62+91	RT.	206.0	162.50	1	1		3	
Bridge	49+24	52+11	RT.							3
Bridge	49+33	52+22	LT.							3
Totals to Subsummary				3616.5	3787.50	3	3	4	42	6

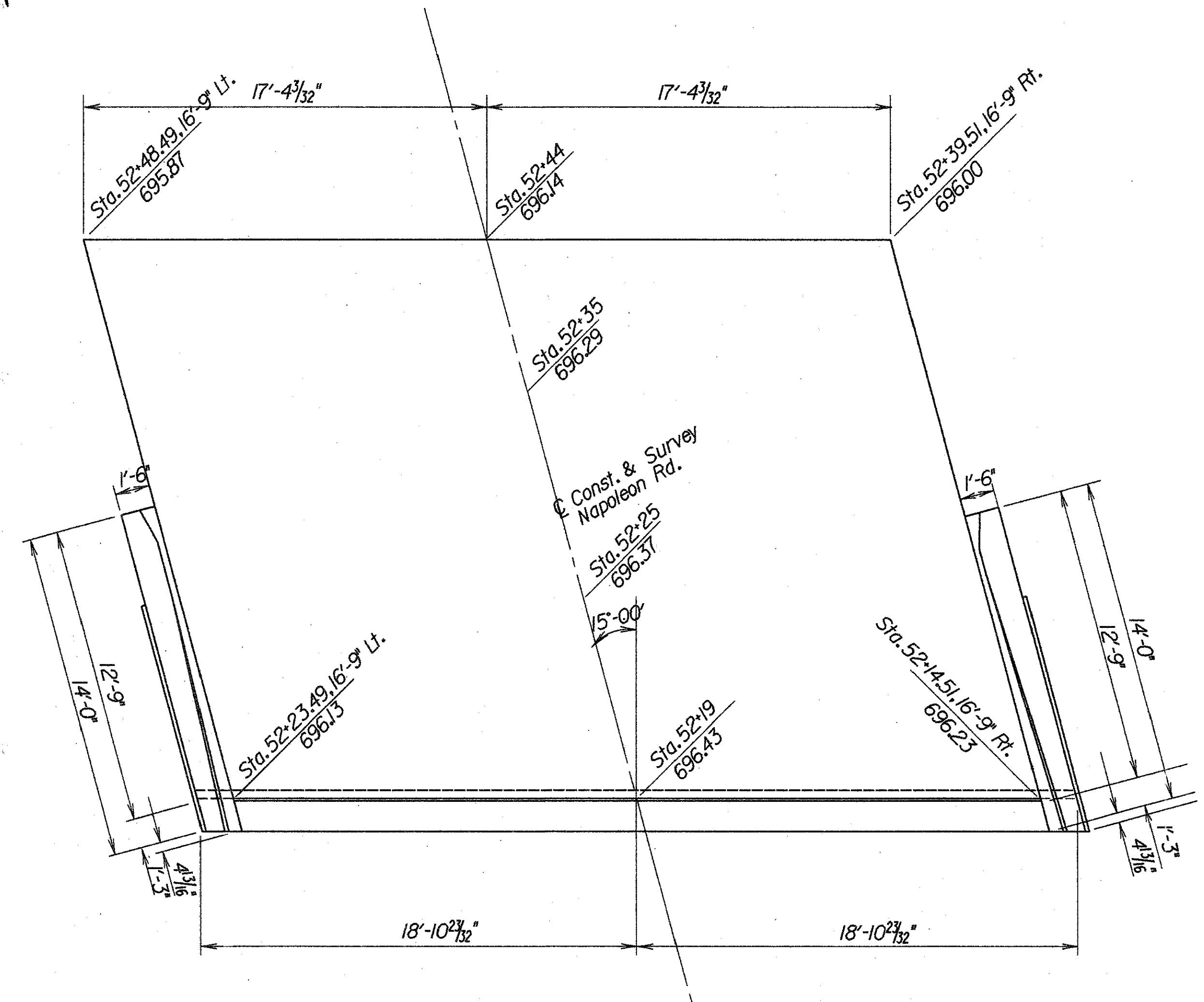
PAVEMENT MARKING



W75NAPM.DWG(MGE):1



REAR APPROACH SLAB



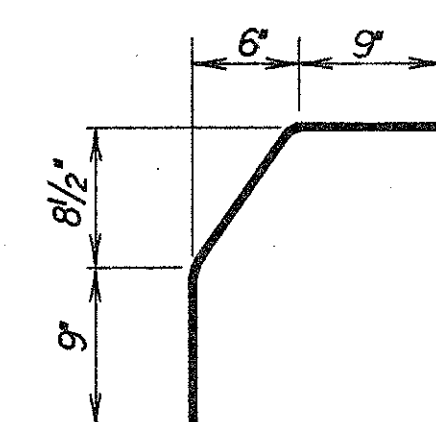
FORWARD APPROACH SLAB

REINFORCING STEEL LIST

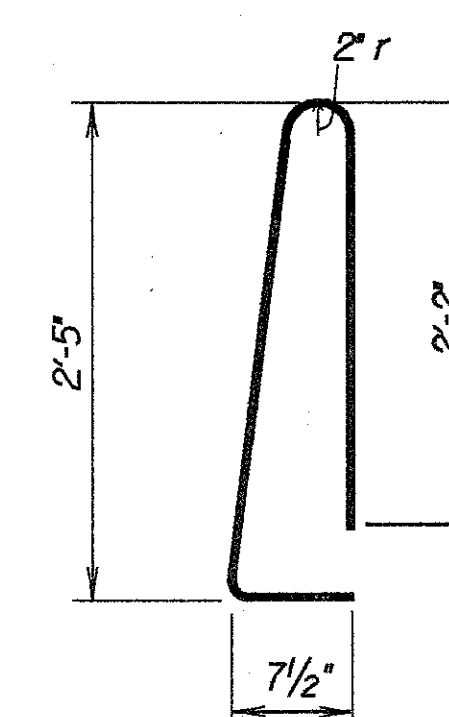
BENDING DIAGRAMS

MARK	NO. IN STRUCTURE			LENGTH	WEIGHT (LBS.)	SHAPE	LAP LENGTH	DOWEL HOLES (LIN. FT.)
	LT.	RT.	TOTAL					
<i>Superstructure</i>								
ES501	44	44	88	27'-9"	2547	S	1'-8"	
ES502	219	219	438	5'-3"	2398	B		
ES503	219	219	438	1'-6"	685	S		183
ES504	219	219	438	2'-4"	1066	B		183
ES505	36	36	72	14'-6"	1089	S		
ES506	84	84	168	4'-6"	789	S		
ES507	8	8	16	15'-6"	259	S		
ES508	4	4	8	16'-0"	134	S		
<i>Totals for Superstructure</i>					8967			366

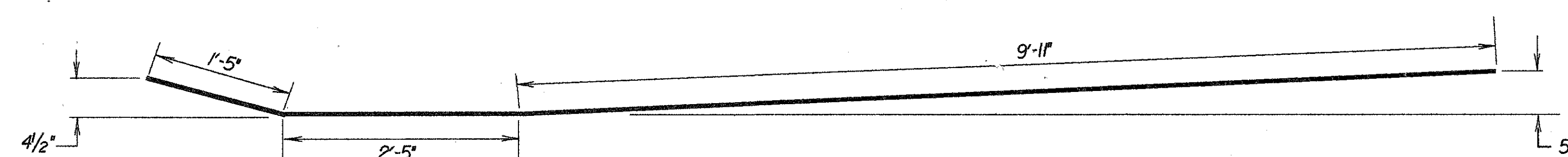
MARK	NO. IN ABUTMENT			LENGTH	WEIGHT (LBS.)	SHAPE	LAP LENGTH	DOWEL HOLES (LIN. FT.)
	LT.	RT.	TOTAL					
<i>Abutments</i>								
EA801	52	52	104	4'-4"	601	B		104
EA501	16	16	32	19'-6"	325	S	1'-8"	
EA502	10	10	20	13'-8"	285	S		
EA503	4	4	8	13'-9"	115	B		
EA504	2	2	4	13'-9"	57	B		
EA505	22	22	44	4'-4"	199	B		
EA506	14	14	28	3'-8"	103	B		
EA508	4	4	8	4'-0"	33	B		
EA507	14	14	28	2'-11"	85	B		
<i>Totals for Abutments</i>					1803			104



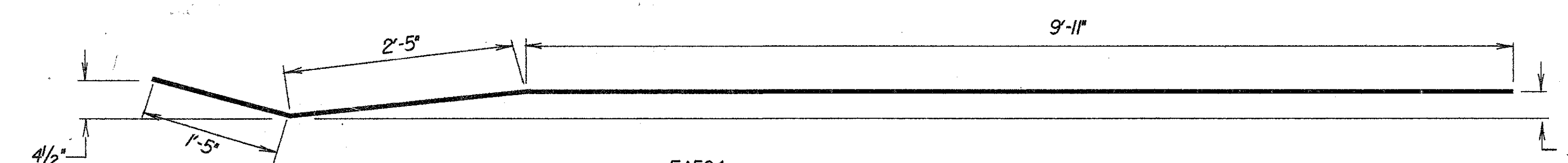
ES504



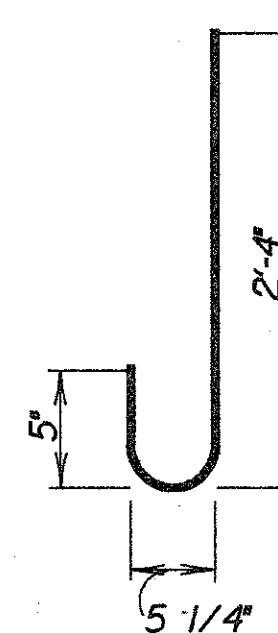
ES502



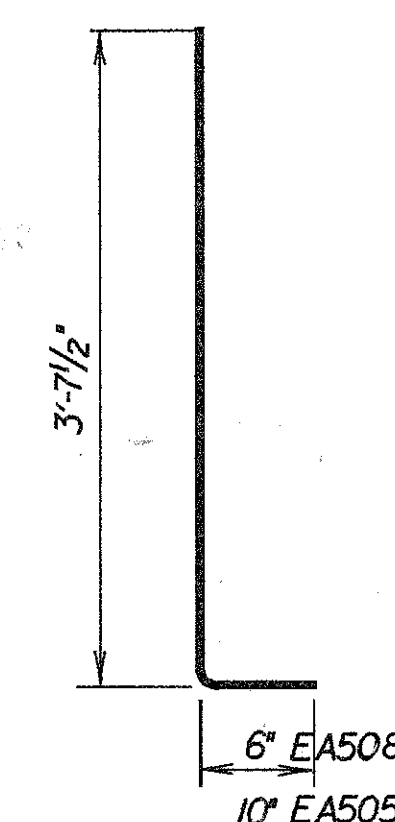
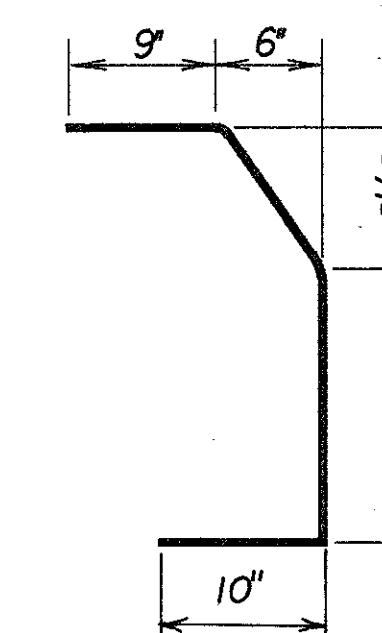
EA503



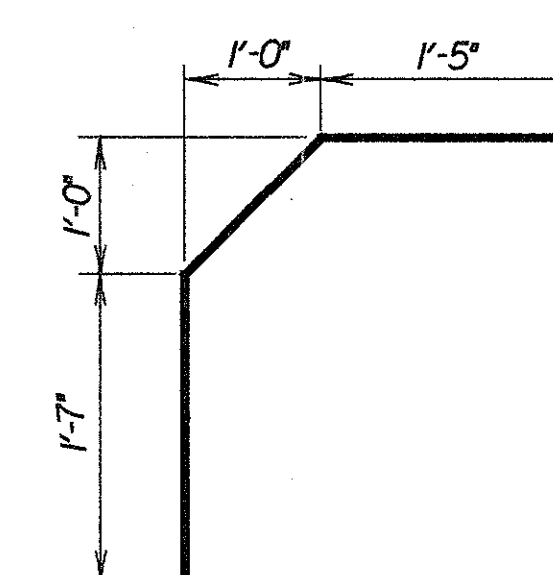
EA504



EA507


6" EA508
10" EA505


EA506



EA801

*E in prefix designates epoxy coated

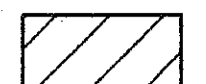
STATE OF OHIO DEPARTMENT OF TRANSPORTATION BUREAU OF LOCATION AND DESIGN							2 / 8
REINFORCING STEEL LIST AND DETAILS BRIDGE NO. W00-75-1383 NAPOLEON RD.							
DESIGNED MTG	DRAWN	TRACED	CHECKED GG	REVIEWED LCL	DATE 7/1/92	REVISED	

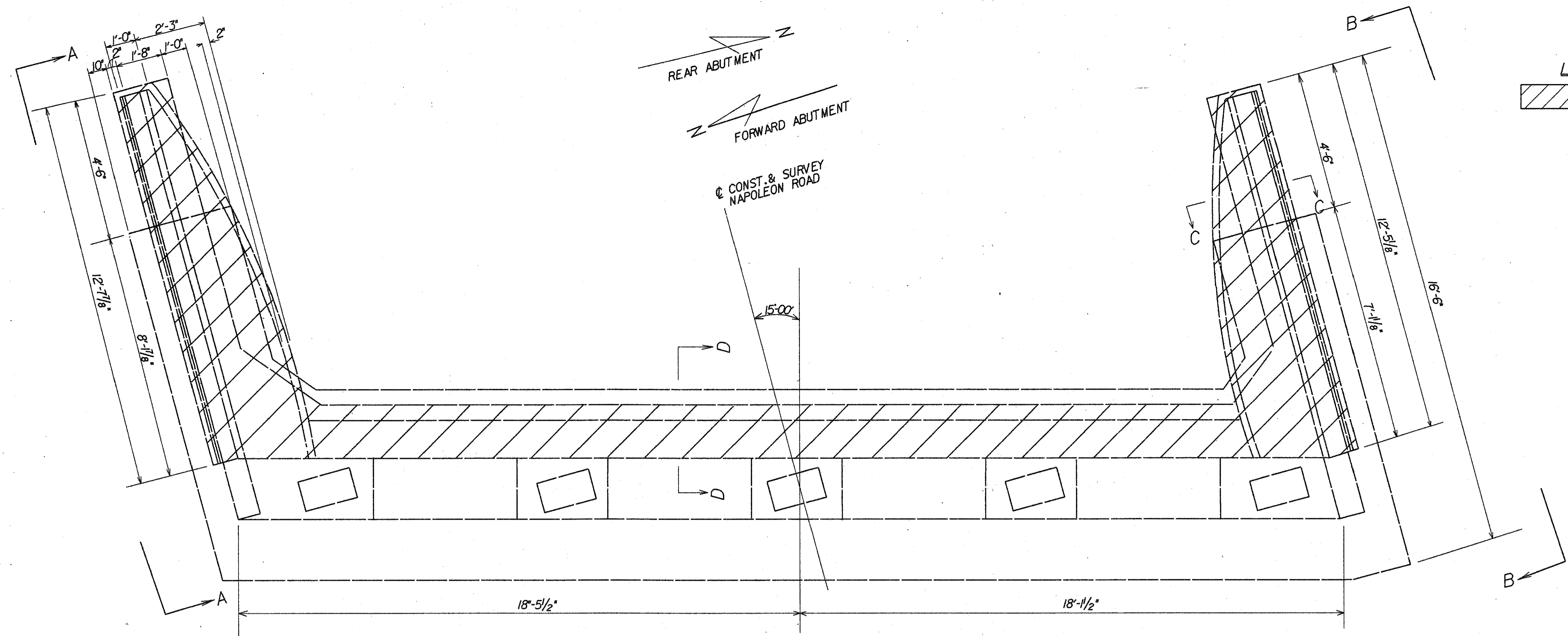
FINA REGION	STATE	PROJECT
5	OHIO	

W00-75-3.01 (VARIOUS)

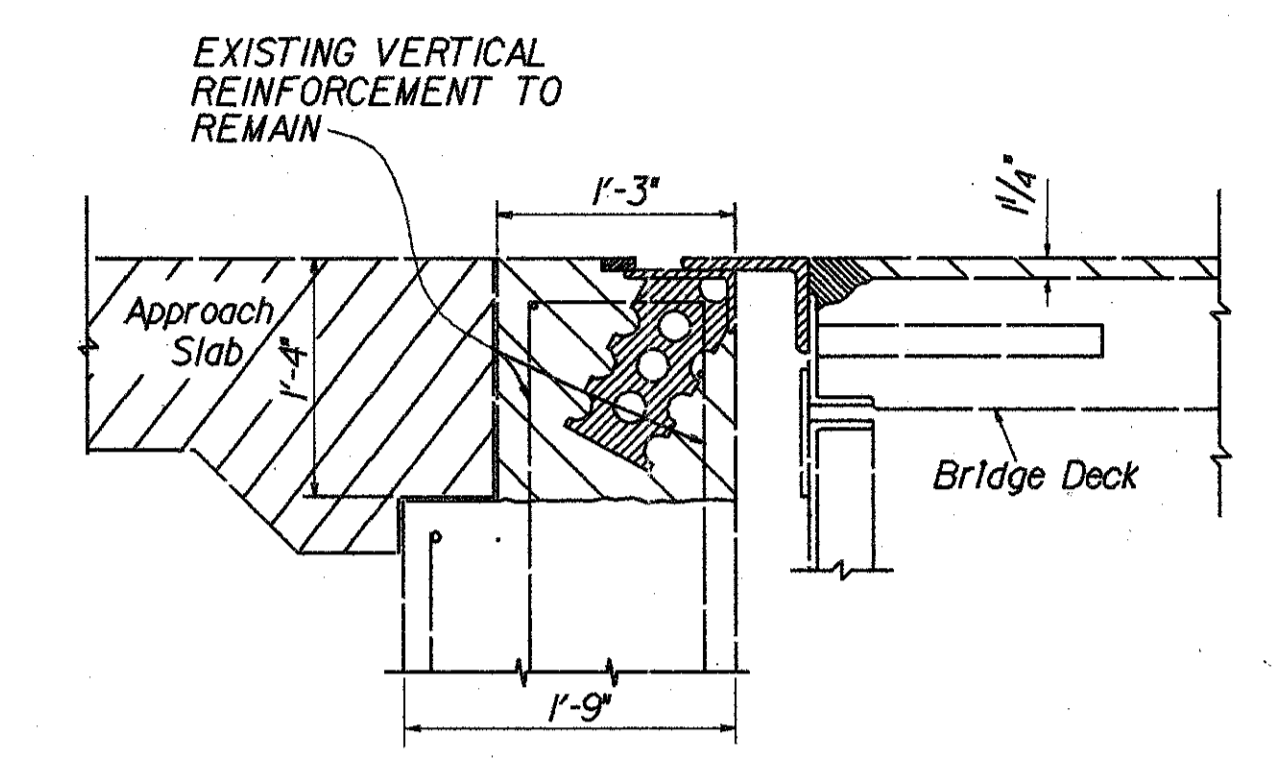
111
116

3
8

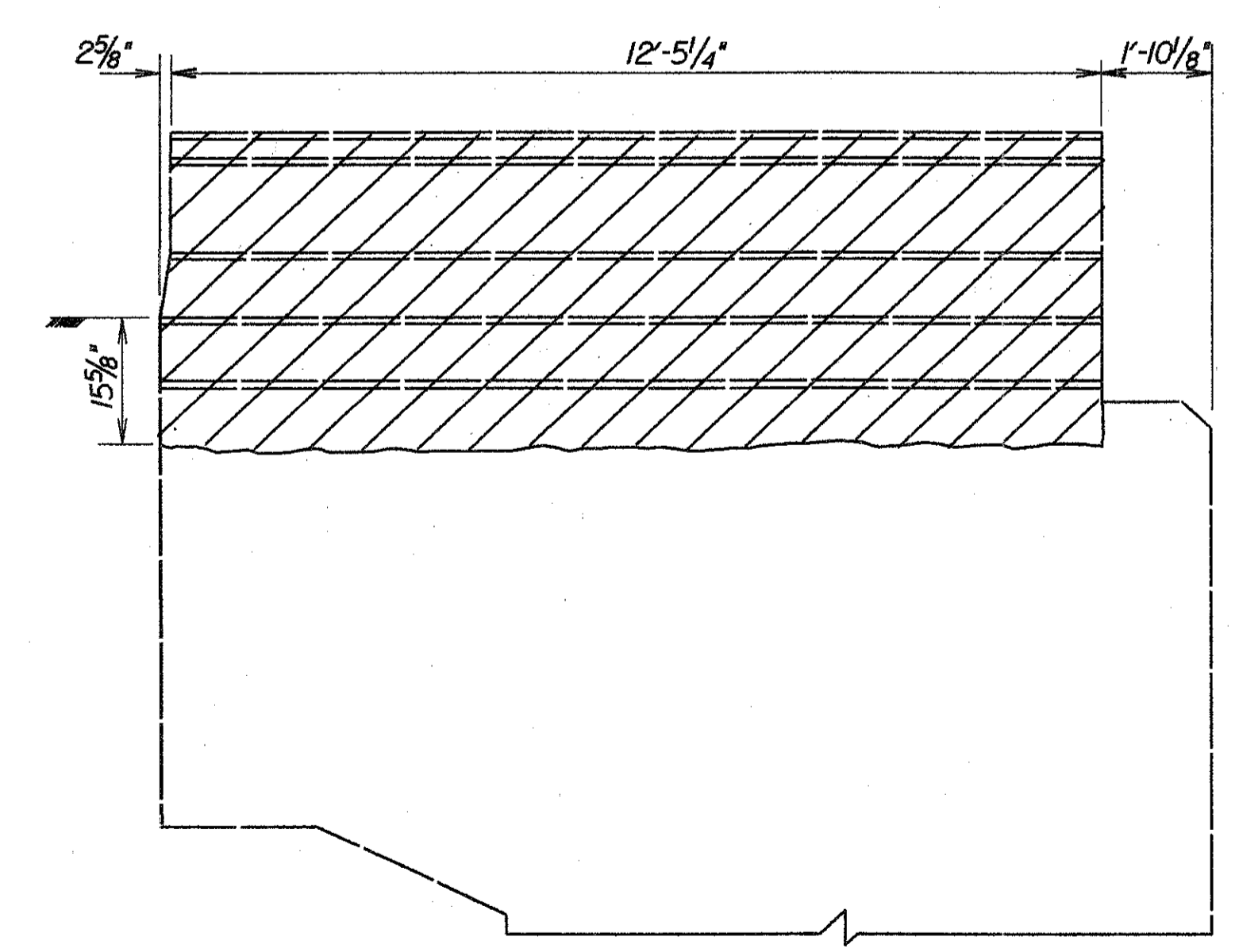
LEGEND
 Removal Limits



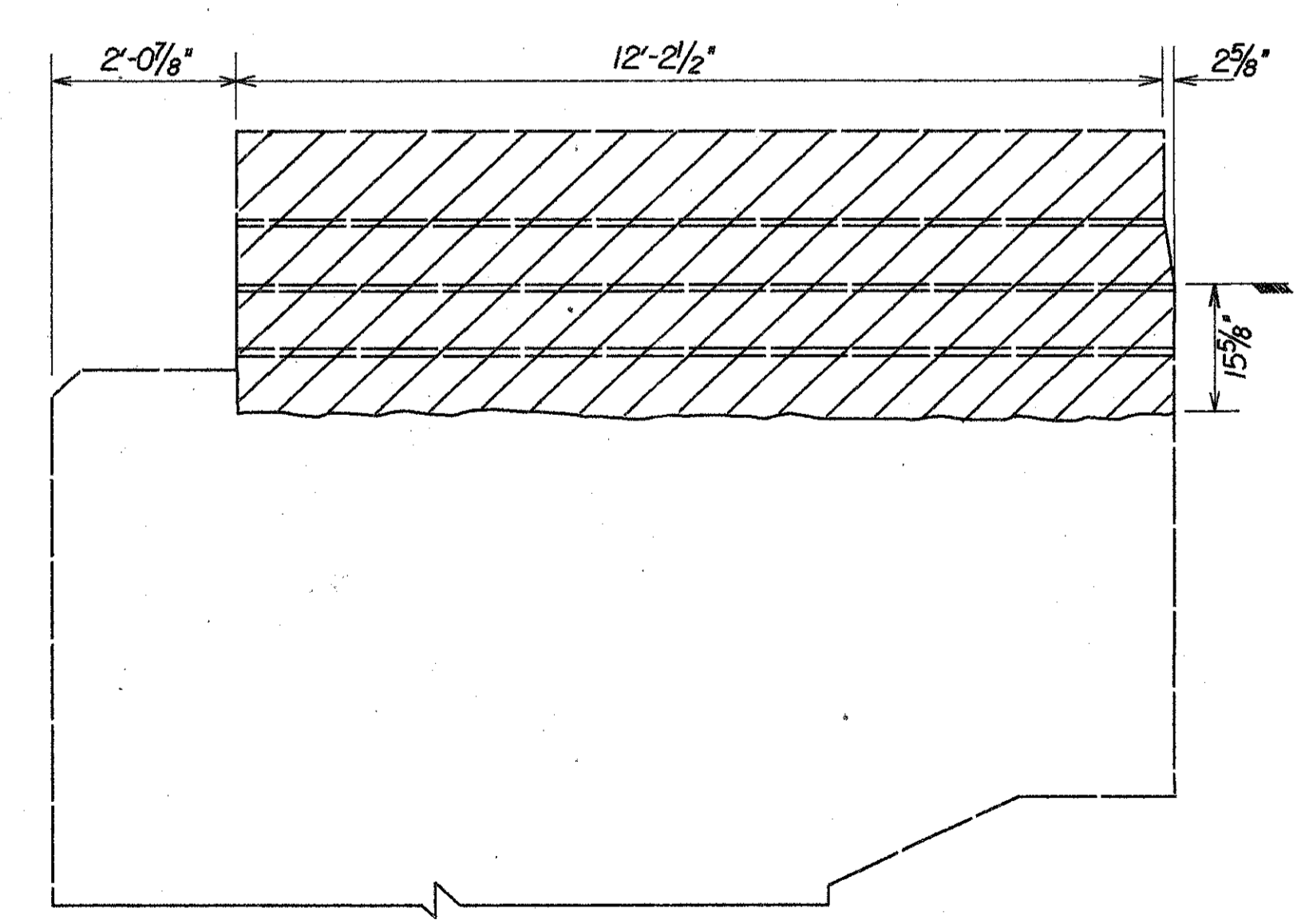
PLAN



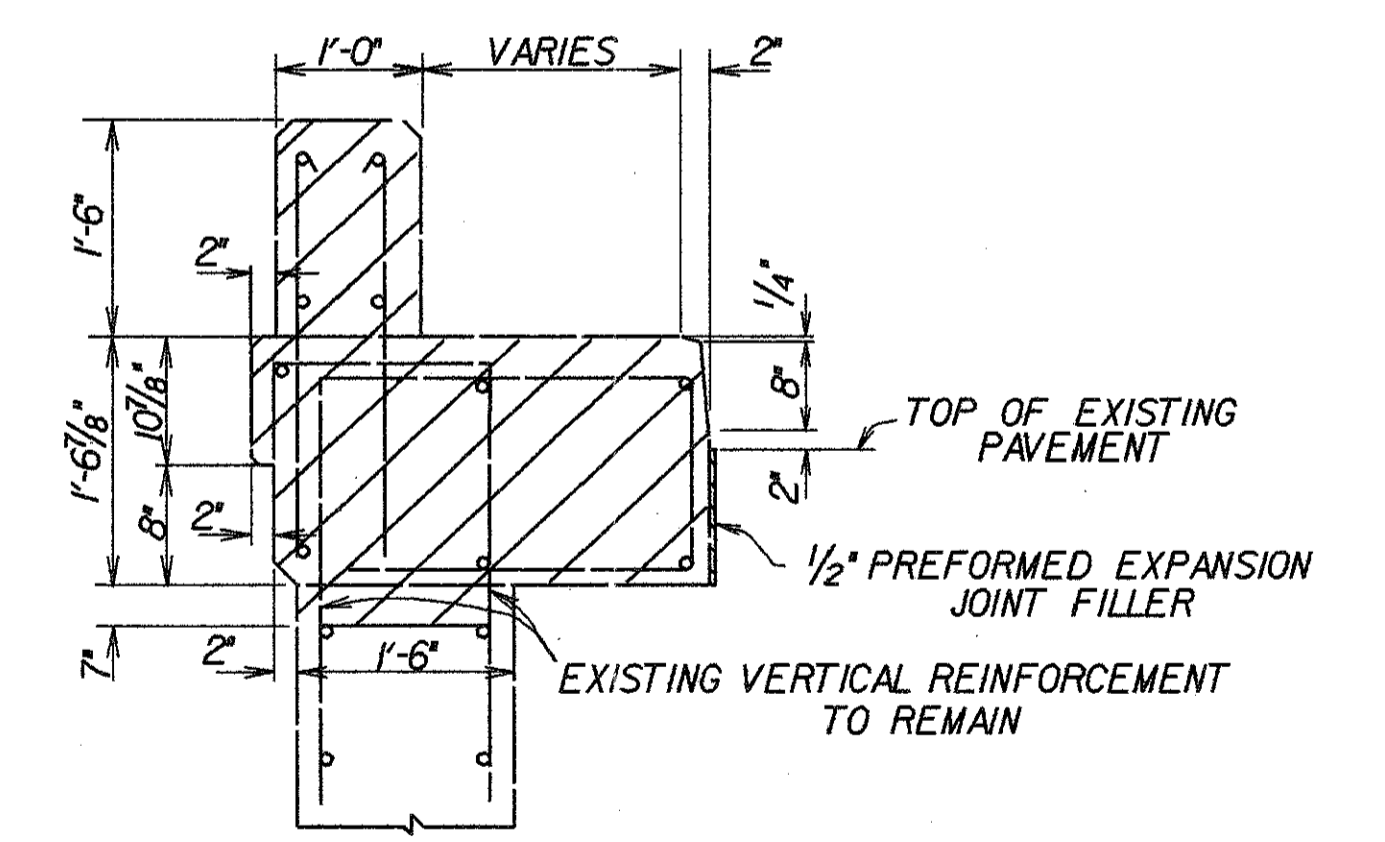
SECTION D-D



WINGWALL ELEVATION
VIEW A-A



WINGWALL ELEVATION
VIEW B-B



SECTION C-C

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES						3 / 8
EXISTING ABUTMENT AND WINGWALL REMOVAL DETAILS BRIDGE NO. W00-75-1383 NAPOLEON ROAD						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MTG			GG	LCC	7/14/02	

ZFAI:200,210JW75NASDI.DGN

ZFAI200.230JW75NASD5.DGN

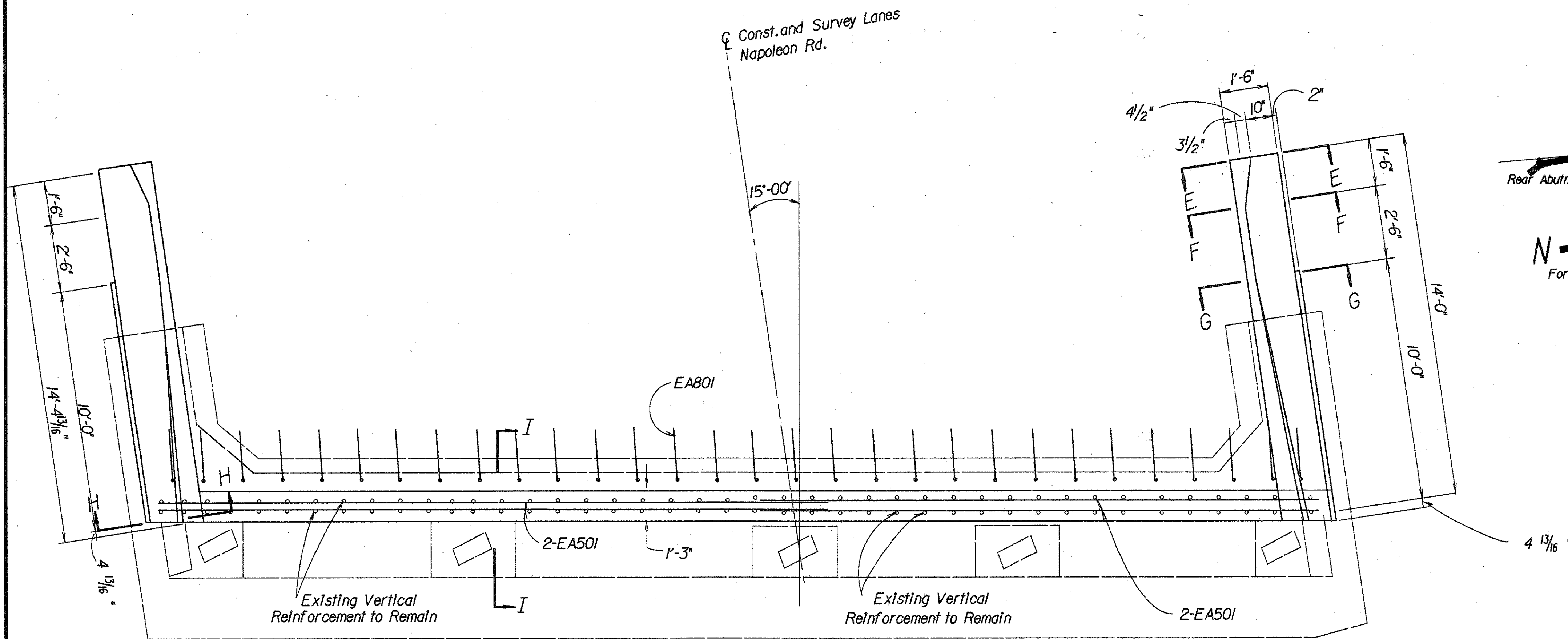
See Sht. No. 6/8 for Sections E-E, F-F, G-G, and H-H

PRNA REGION	STATE	PROJECT	
5	OHIO		

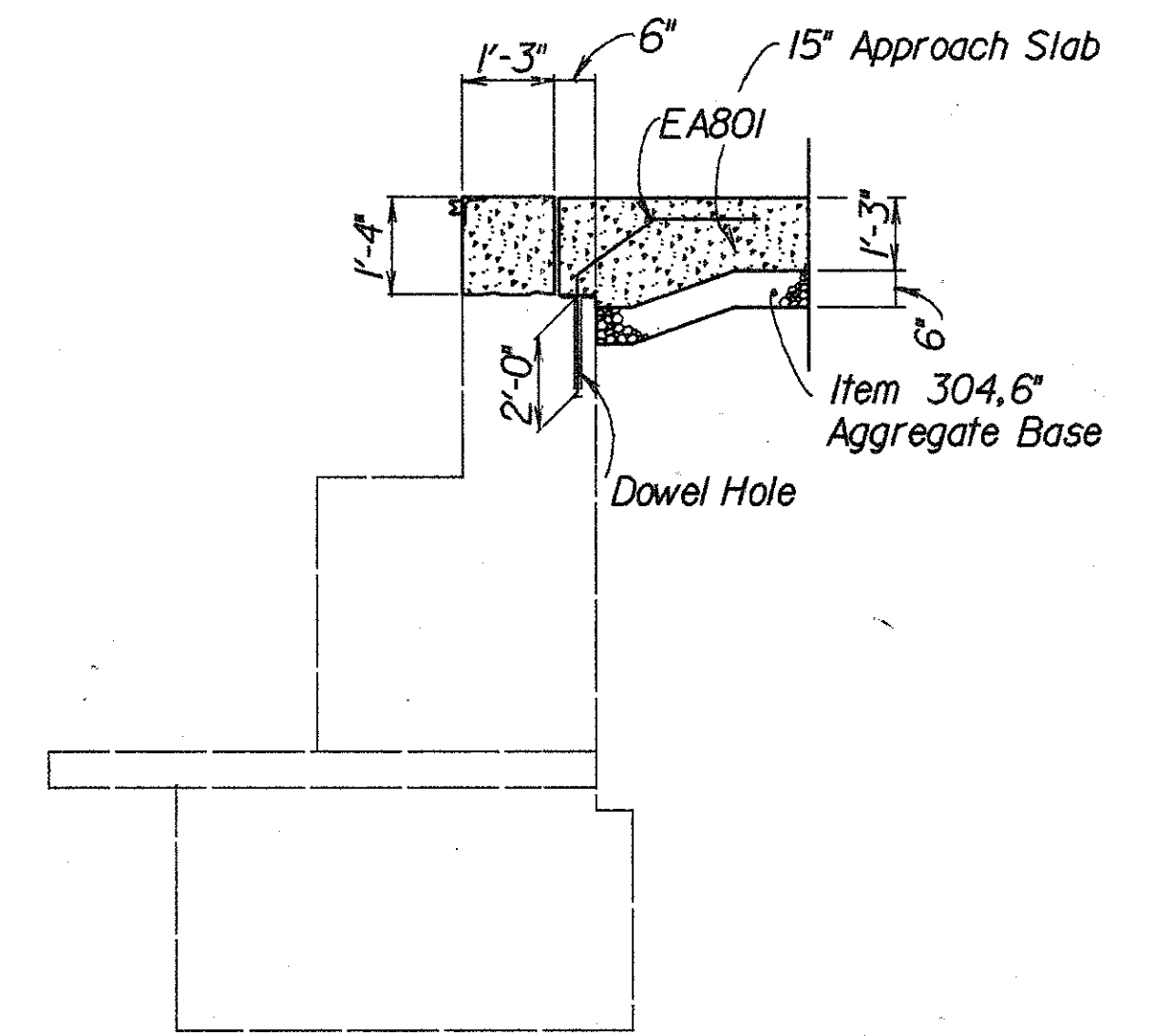
W00-75-3.01 (VARIOUS)

112
116

4
8

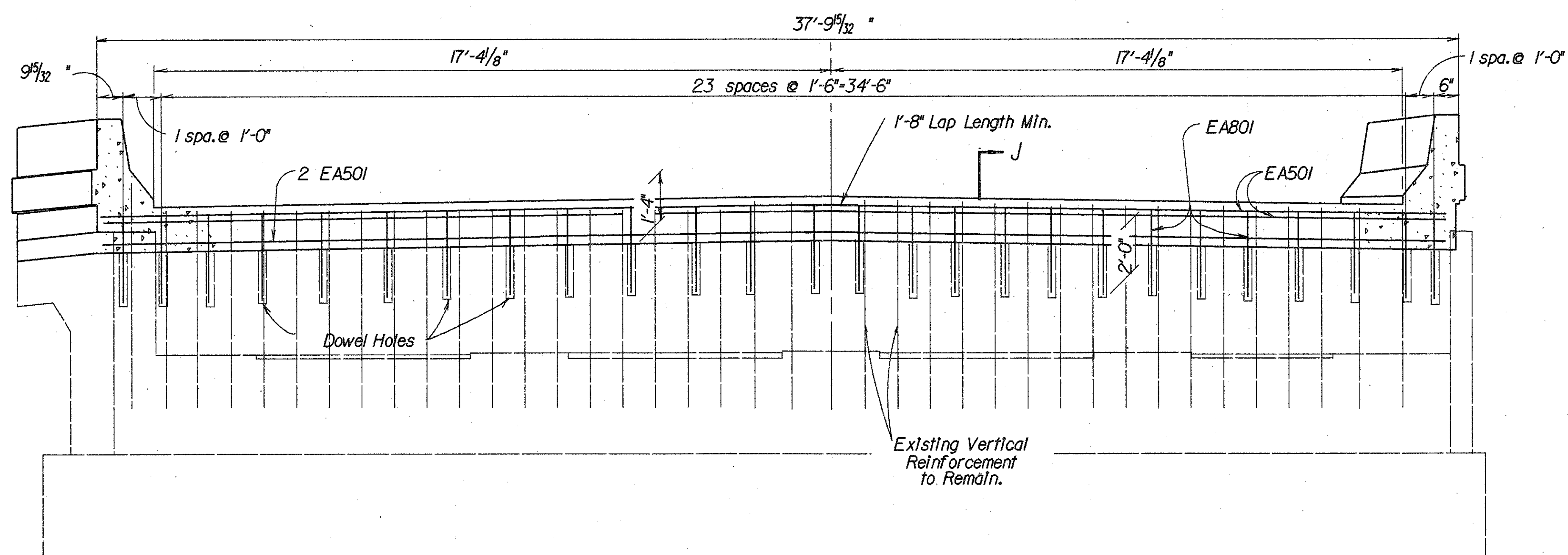


PLAN VIEW

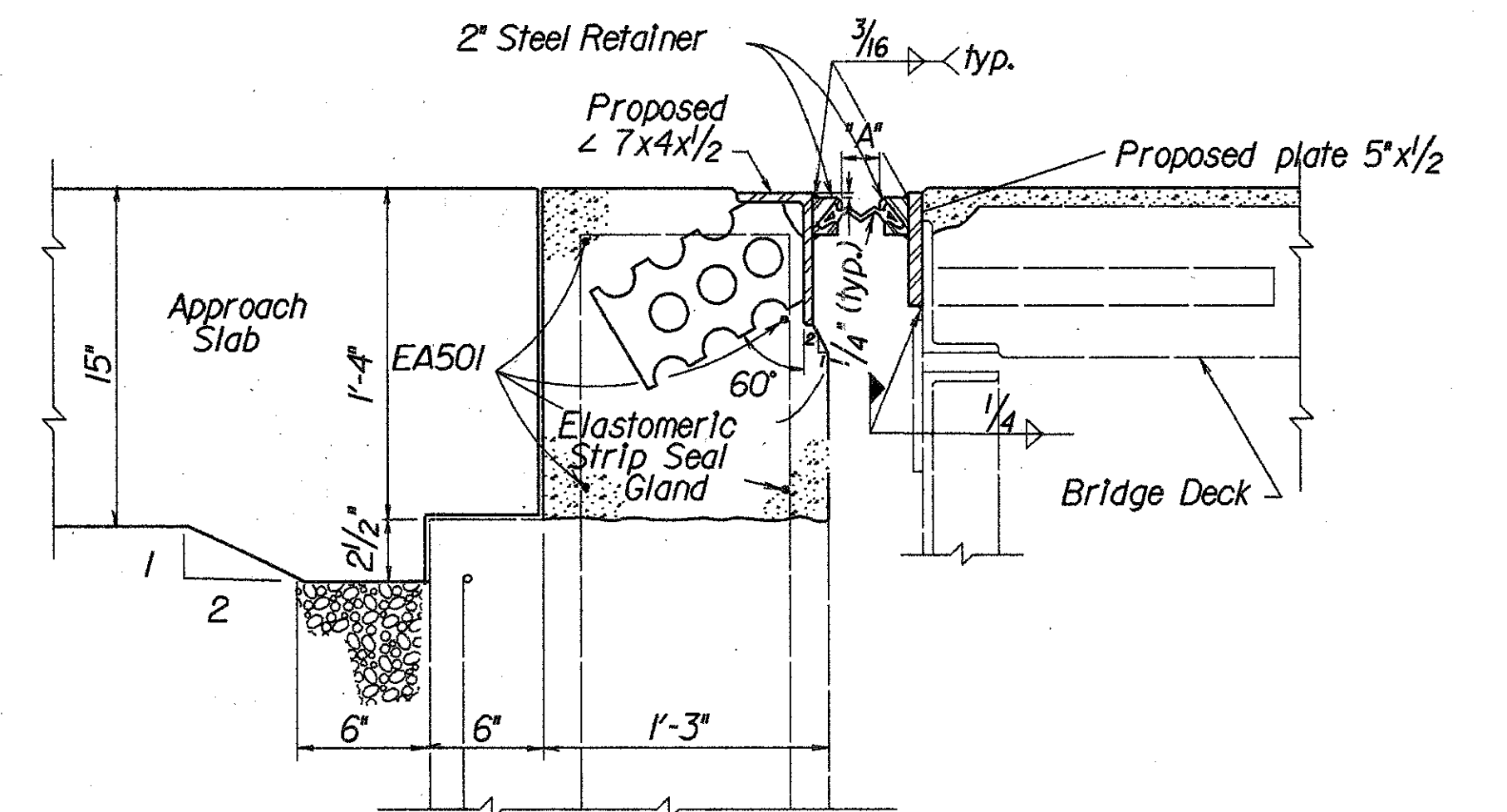


SECTION J-J

NOTE: For Additional Expansion Joint Details, See Std. Dwg. EXJ-4-87.

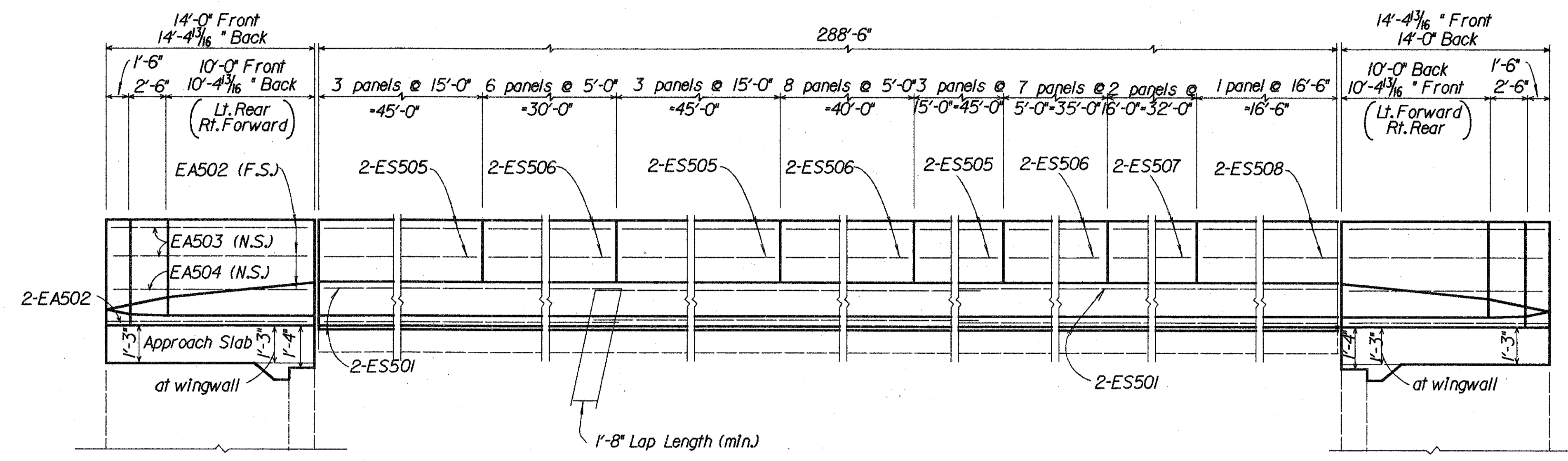


ELEVATION VIEW

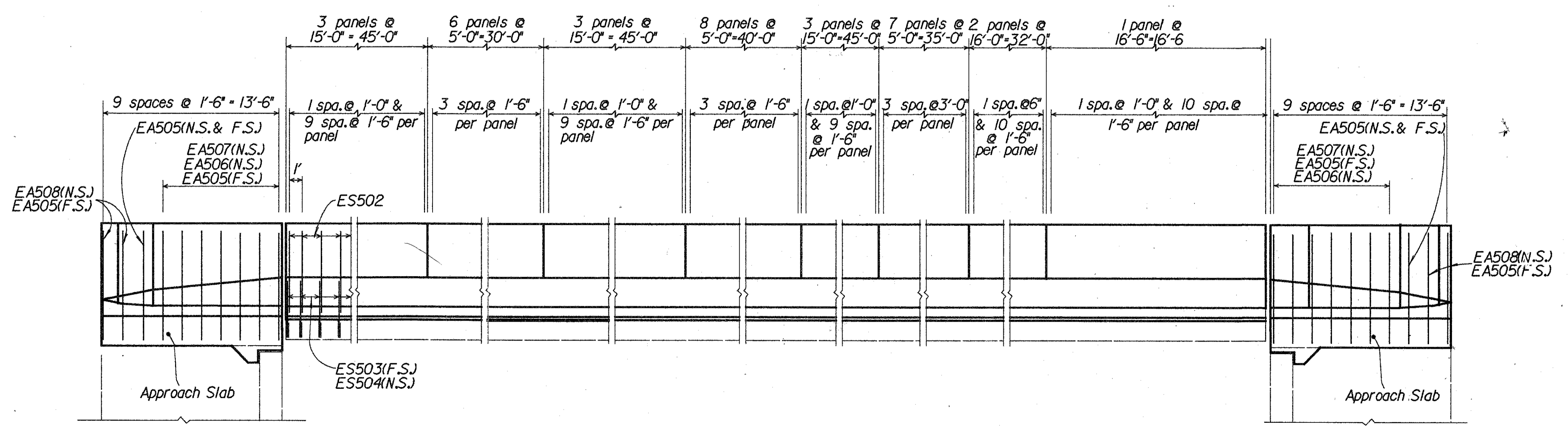


SECTION I-I

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES							4/8
EXPANSION JOINT, AS PER PLAN B, ABUTMENT AND WINGWALL REHABILITATION DETAILS BRIDGE NO. W00-75-1383 L/R NAPOLEON ROAD							
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED	
MTG			GG	LCC	7/14/82		



Elevation
Horizontal reinforcement in Deflector Parapet



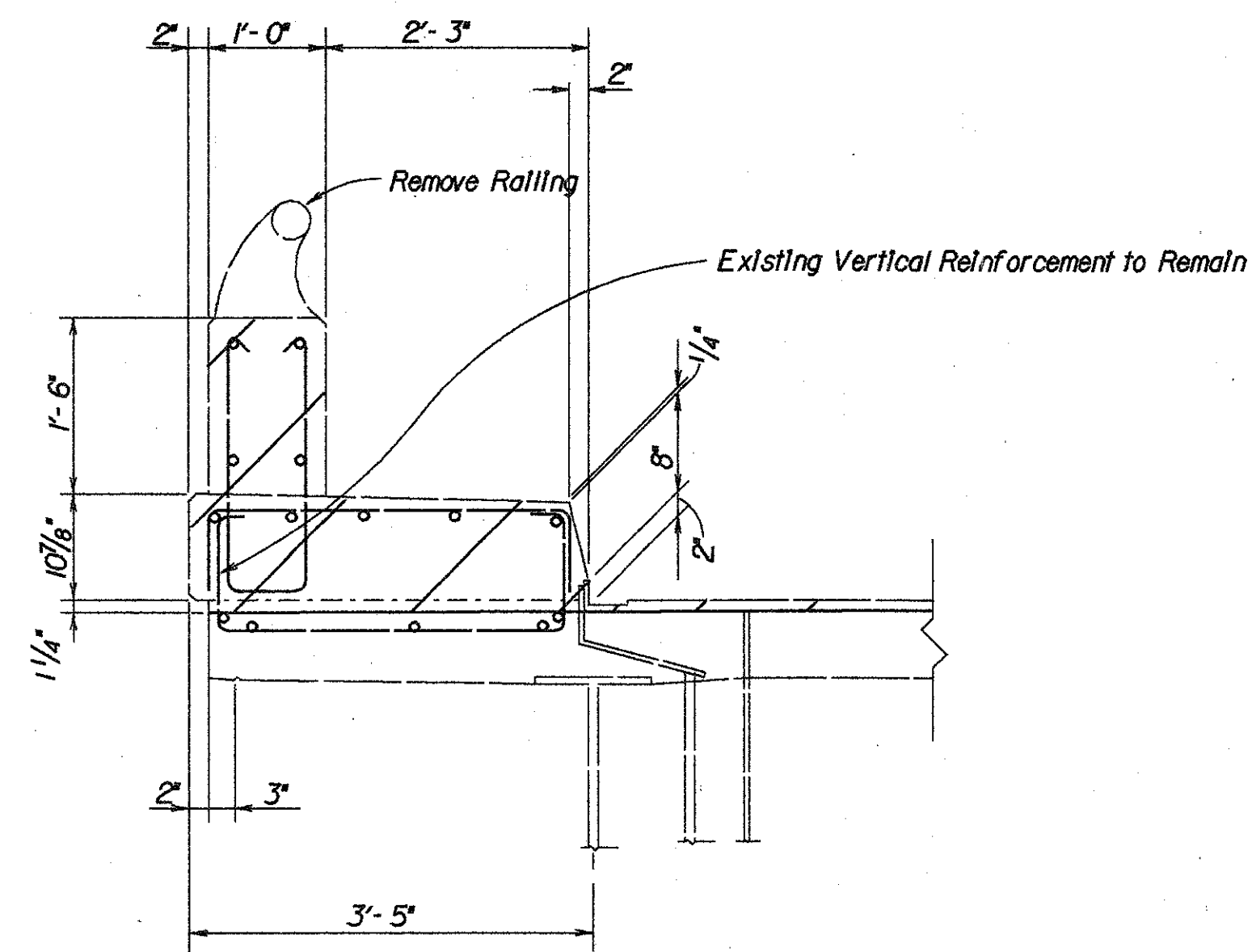
Elevation
Vertical reinforcement in Deflector Parapet

ZFA1t2002101W75NASD3.DGN:1

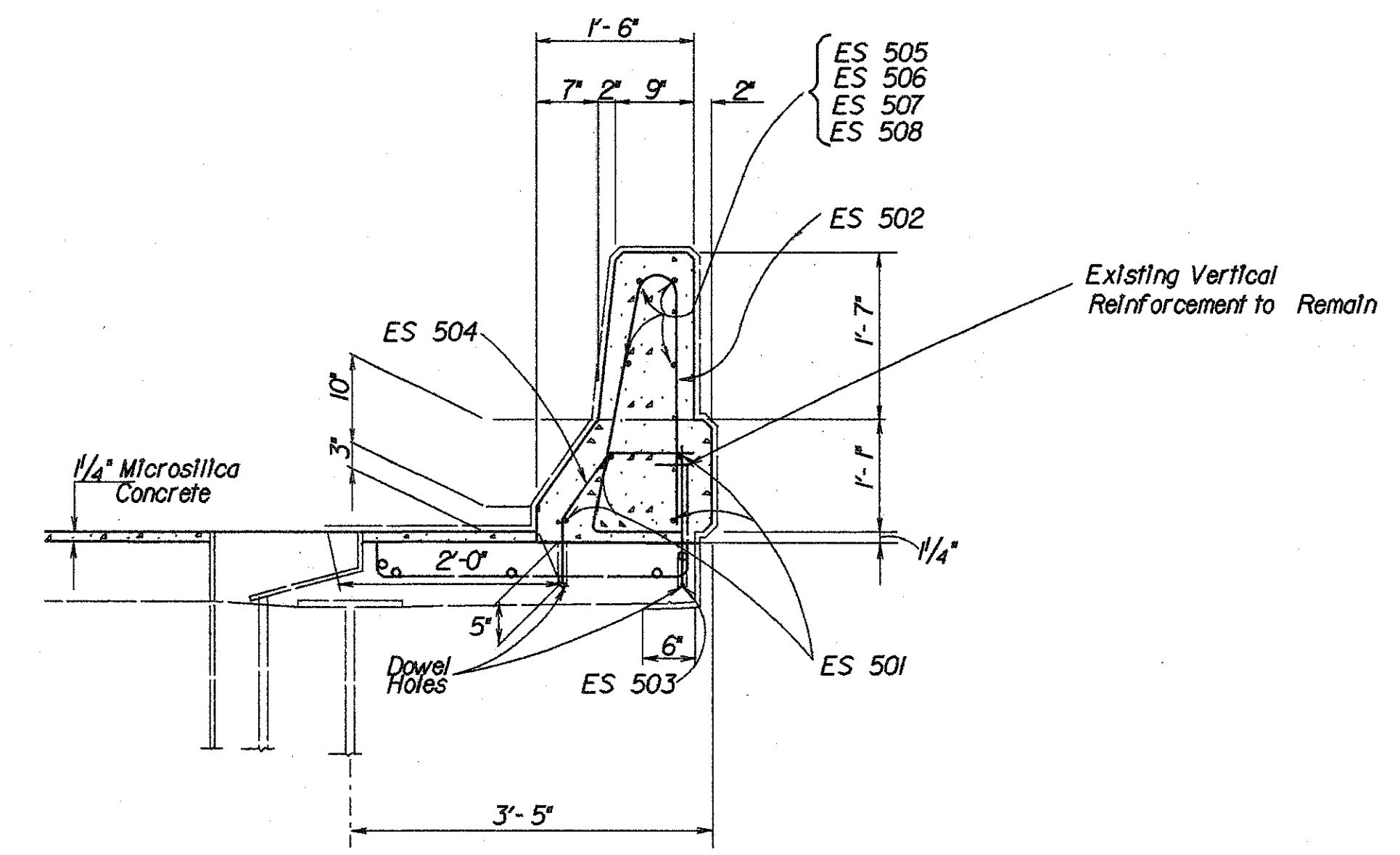
STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES						5 / 8
PARAPET DETAILS BRIDGE NO. W00-75-1383 NAPOLEON ROAD						
DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	REVISED
MTG			GG	LCL	7/14/92	

LEGEND

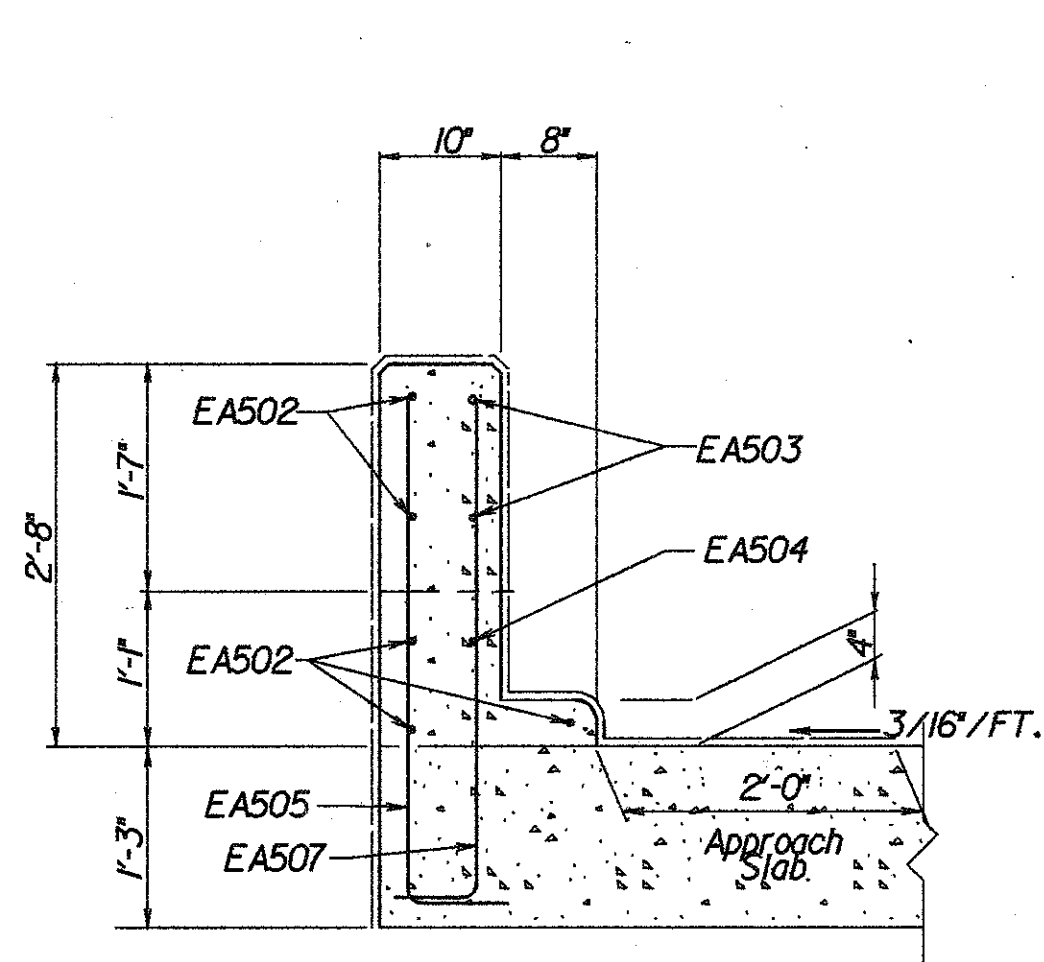
- Limits for Sealing of Concrete Surfaces
- ▨ Removal Limits



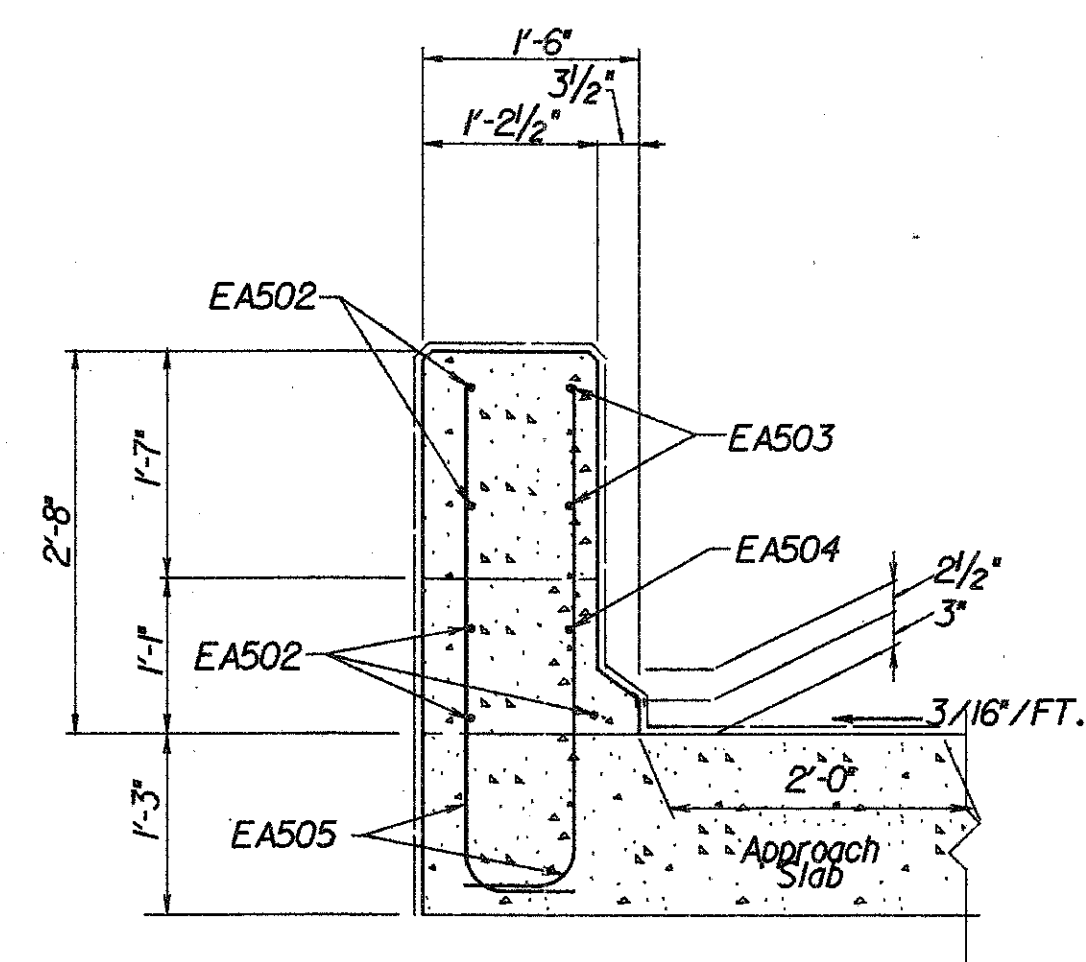
CROSS SECTION OF EXISTING
PARAPET ON STRUCTURE



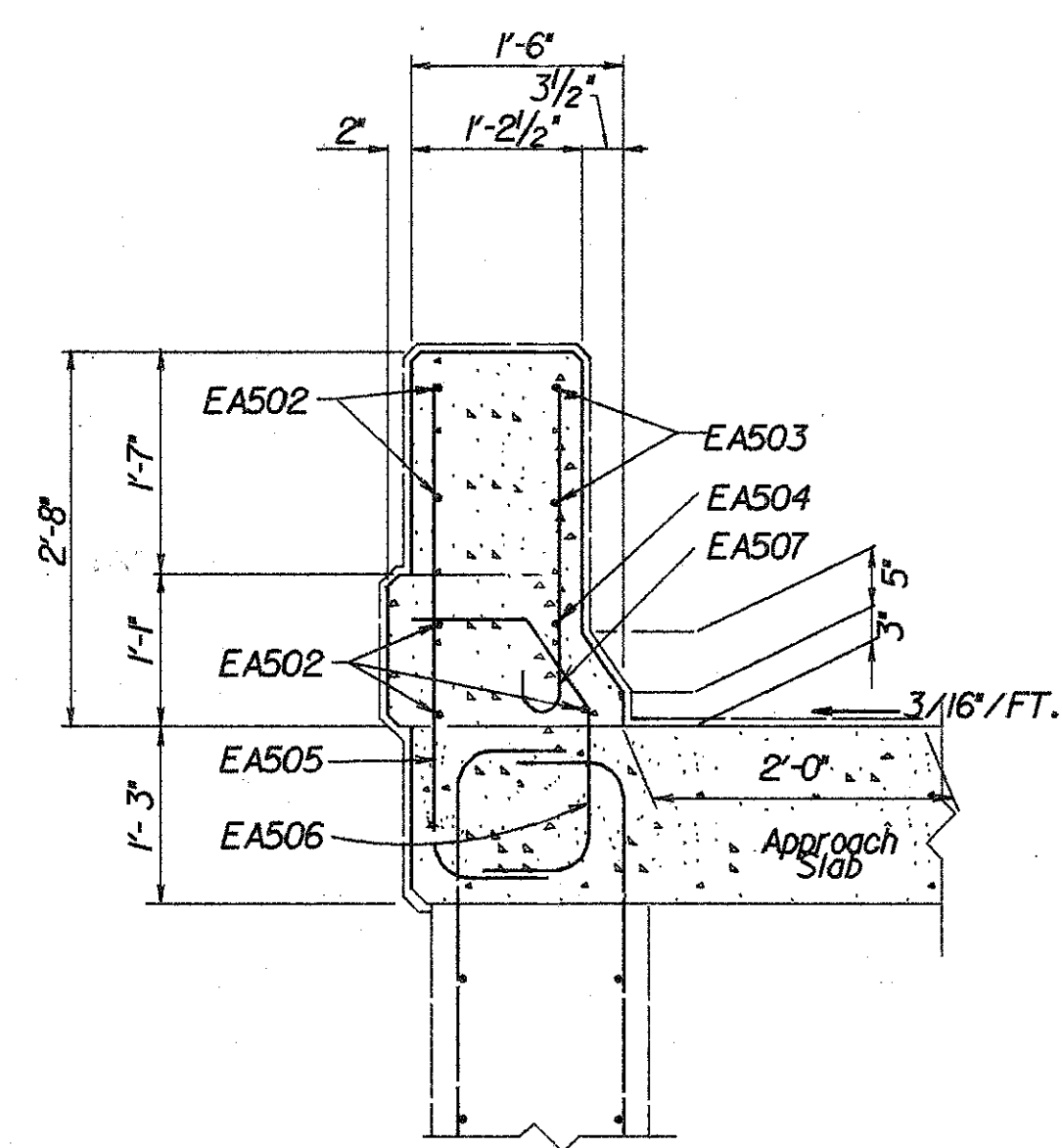
CROSS SECTION OF PROPOSED
PARAPET ON STRUCTURE



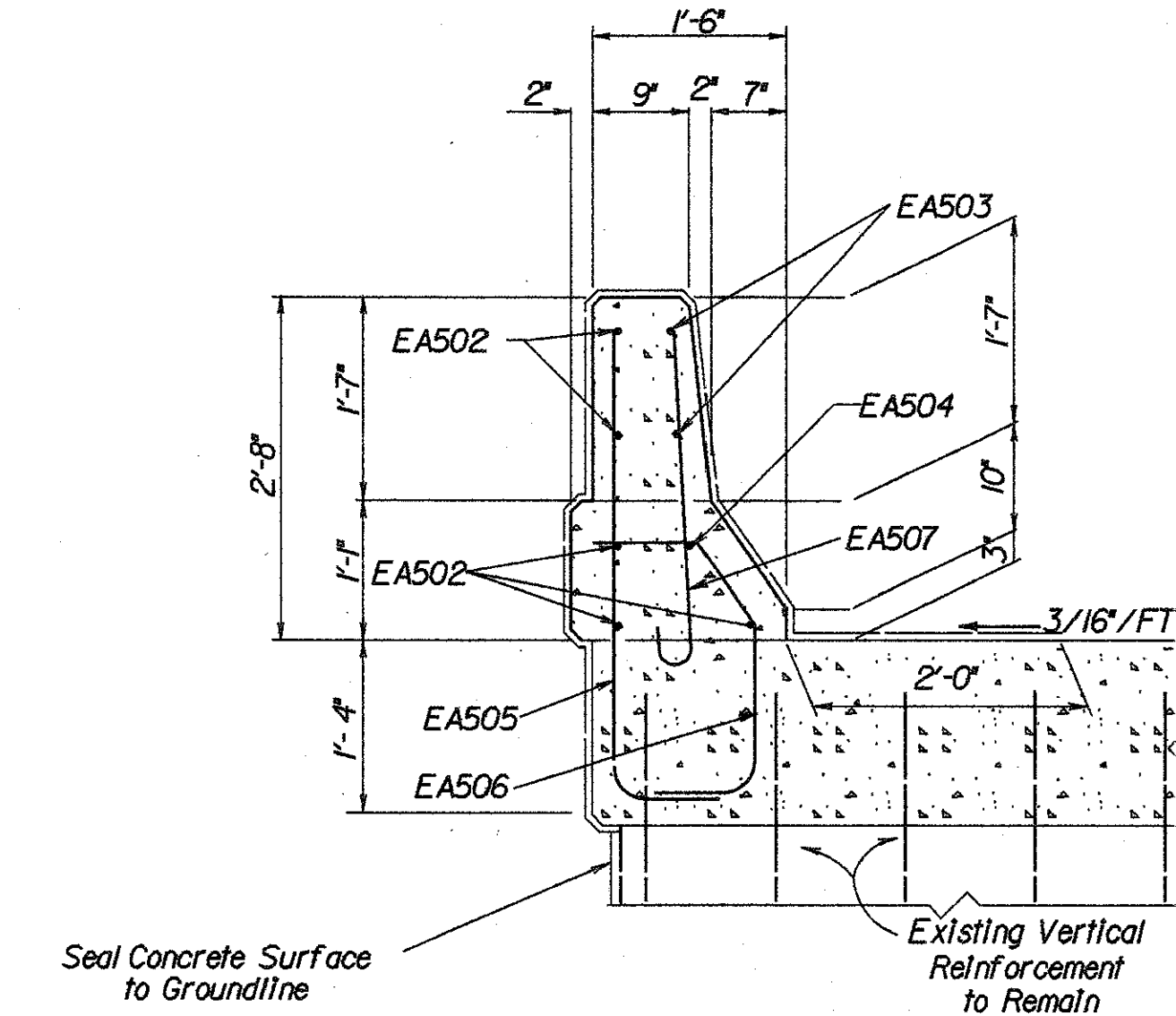
SECTION E-E



SECTION F-F



SECTION G-G



SECTION H-H

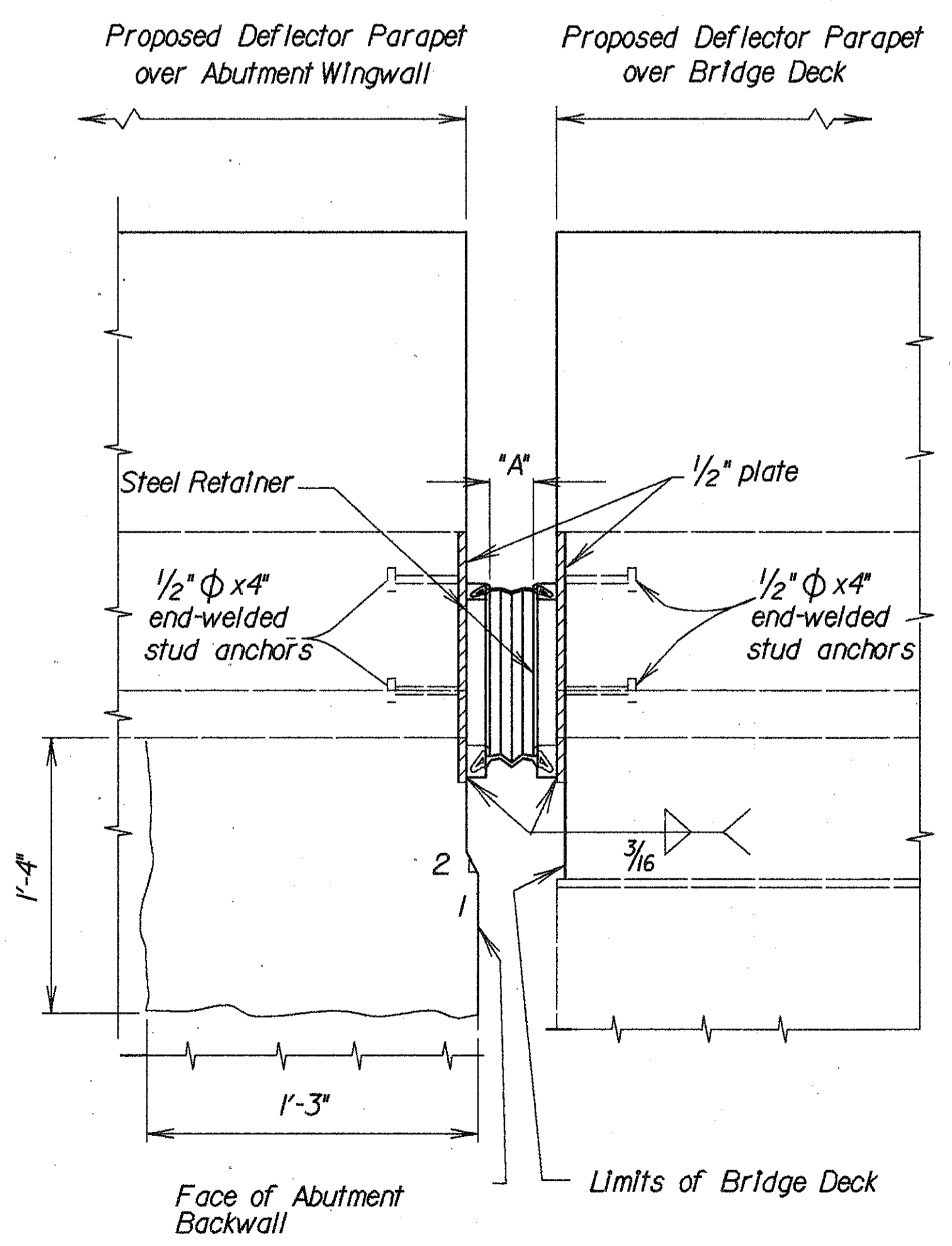
STATE OF OHIO DEPARTMENT OF TRANSPORTATION BUREAU OF LOCATION AND DESIGN						6 / 8
PARAPET DETAILS						
BRIDGE NO. W00-75-1383						
NAPOLEON ROAD						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED	
MTG			GG	LCL 7/14/82		

STRIP SEAL INFORMATION

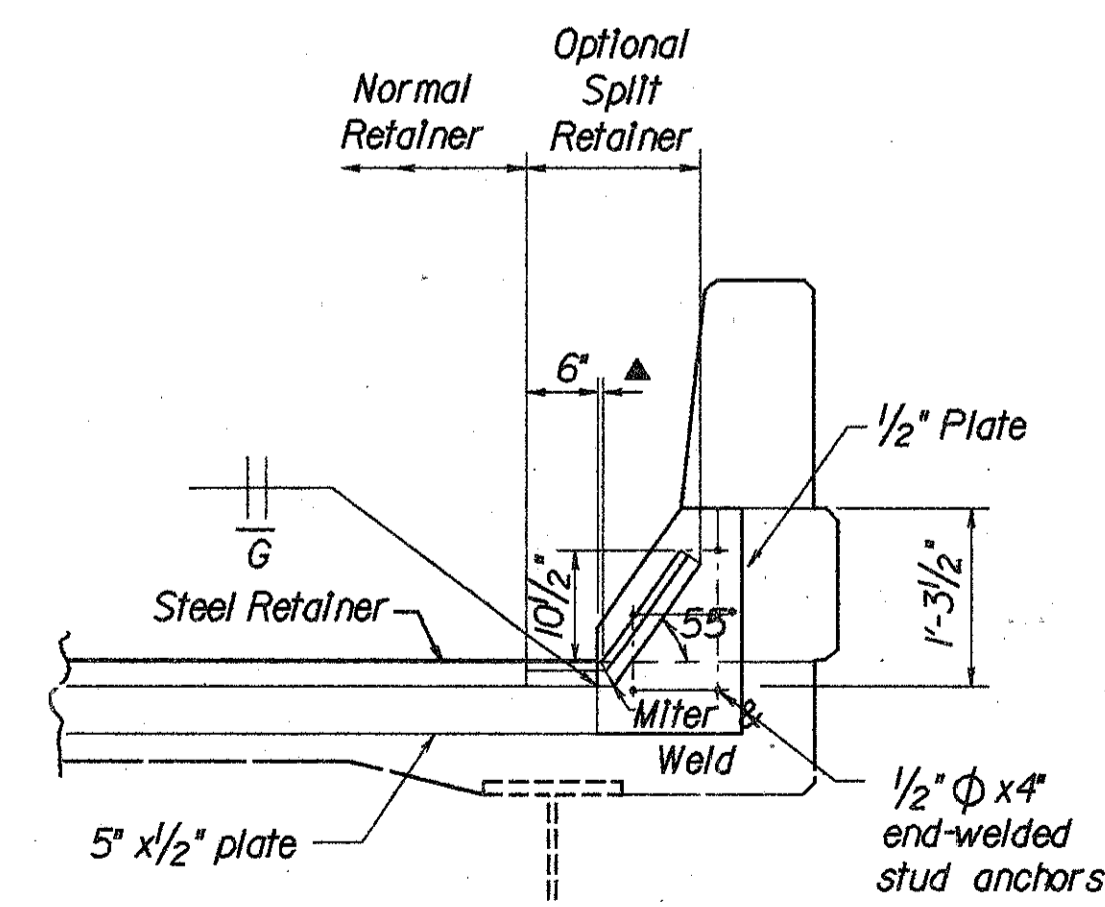
TEMPERATURE, °F	DIMENSION "A", INCHES	
	REAR ABUTMENT	FORWARD ABUTMENT
30	2	2
40	1 7/8	1 7/8
50	1 3/4	1 3/4
60	1 5/8	1 5/8
70	1 1/2	1 1/2
80	1 3/8	1 3/8
90	1 1/4	1 1/4
REQUIRED SEAL SIZE	3"	3"

STRIP SEAL DATA

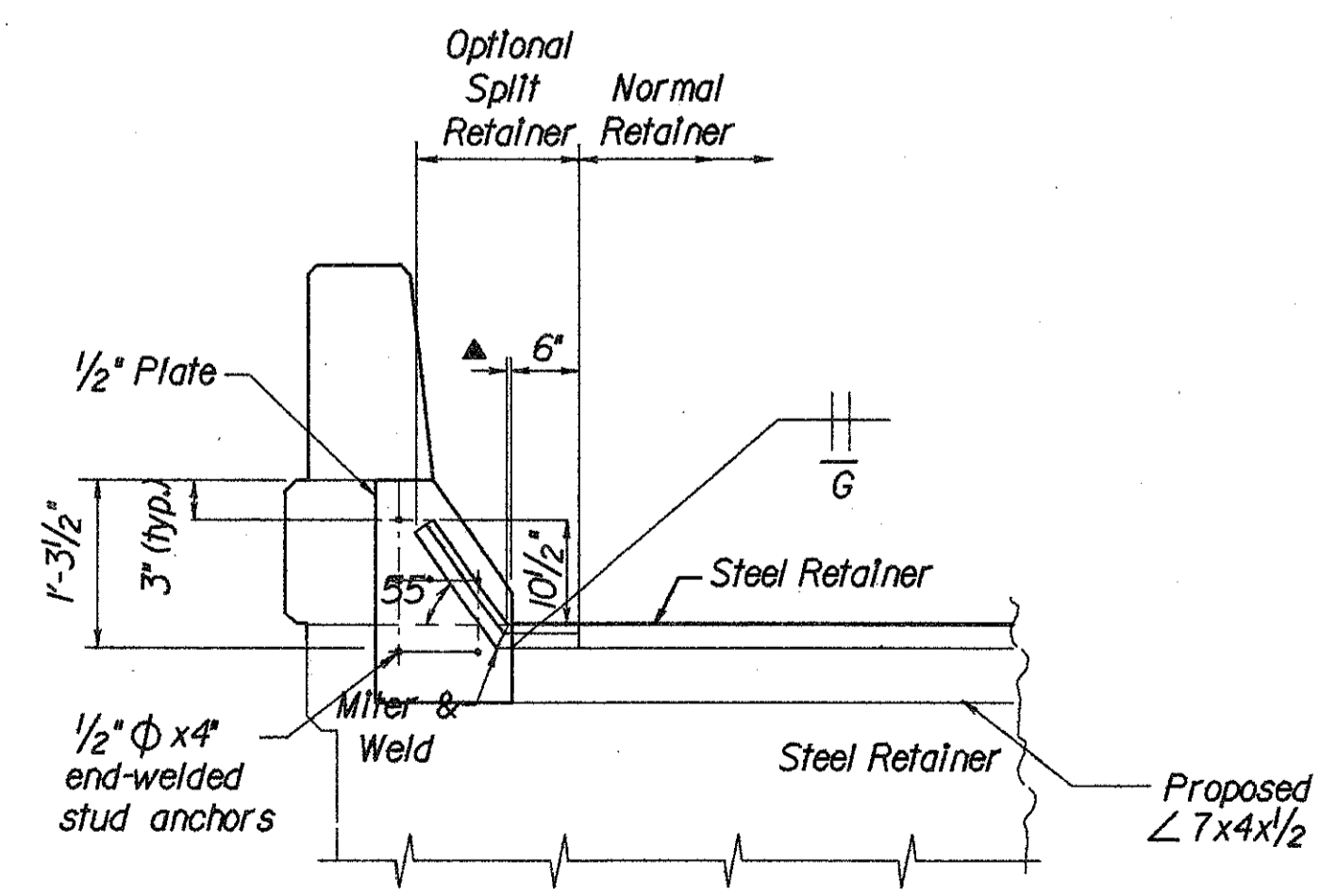
SEAL SIZE	THE D.S. BROWN COMPANY	STRUCTURAL ACCESSORIES INC.	WATSON-BOWMAN & ACME CORP.
3"	300 L	40-SEQ	SE-300



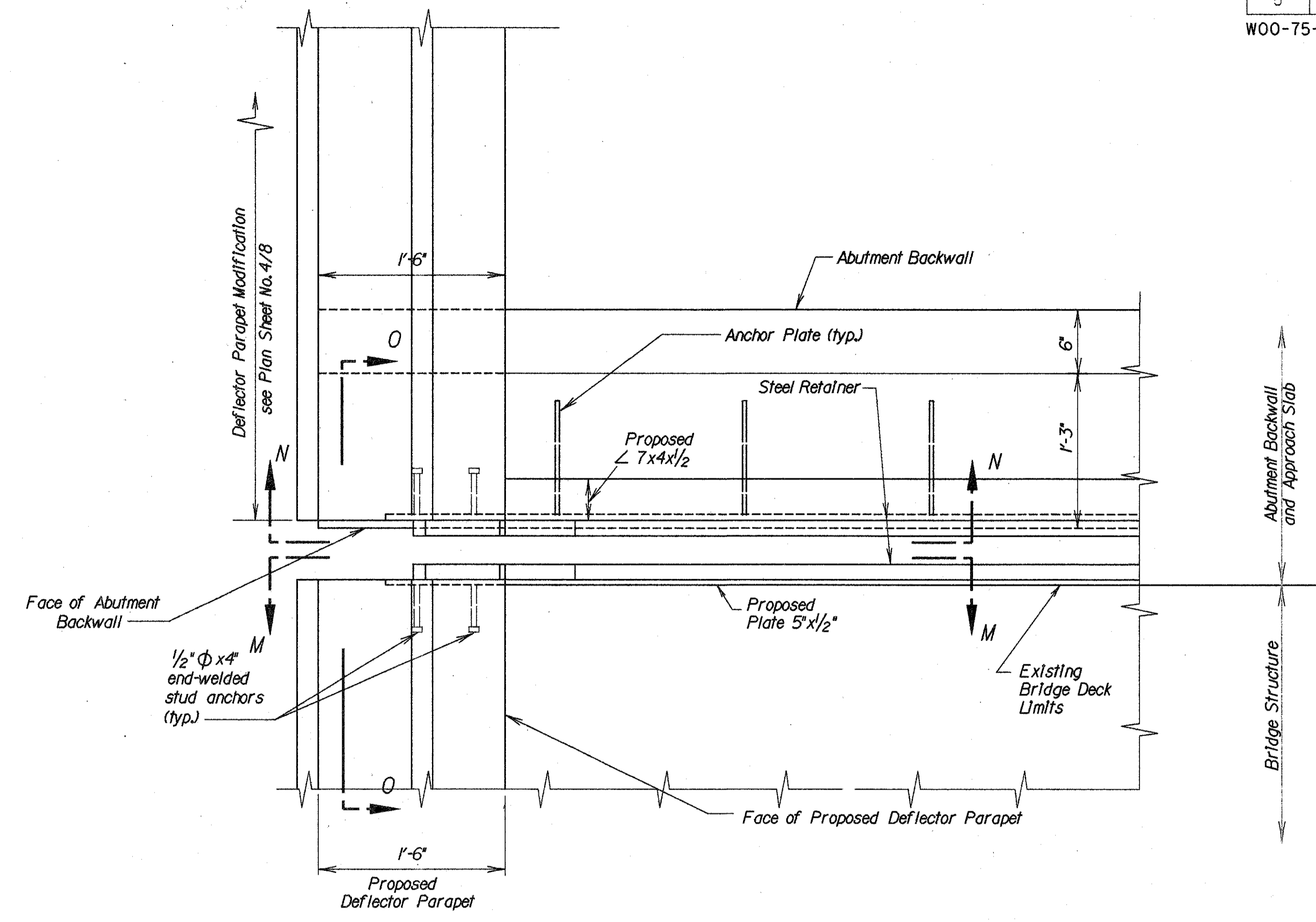
~SECTION 0-0~



~SECTION M-M~



~SECTION N-N~



~PLAN VIEW~

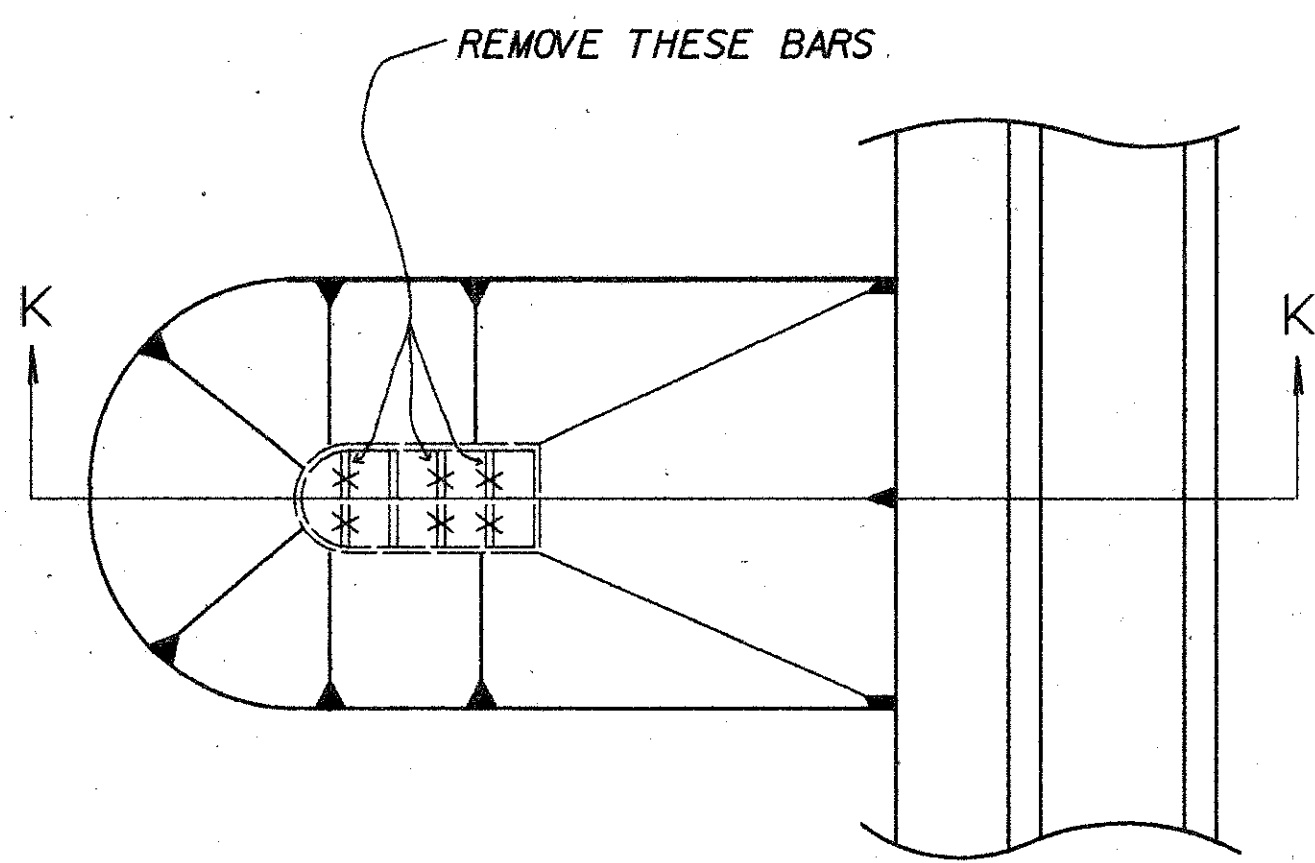
ZFAI:2002101W75NASD2 .DGN1

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

EXPANSION JOINT, AS PER PLAN B DETAILS
BRIDGE NO. W00-75-1383
NAPOLEON ROAD

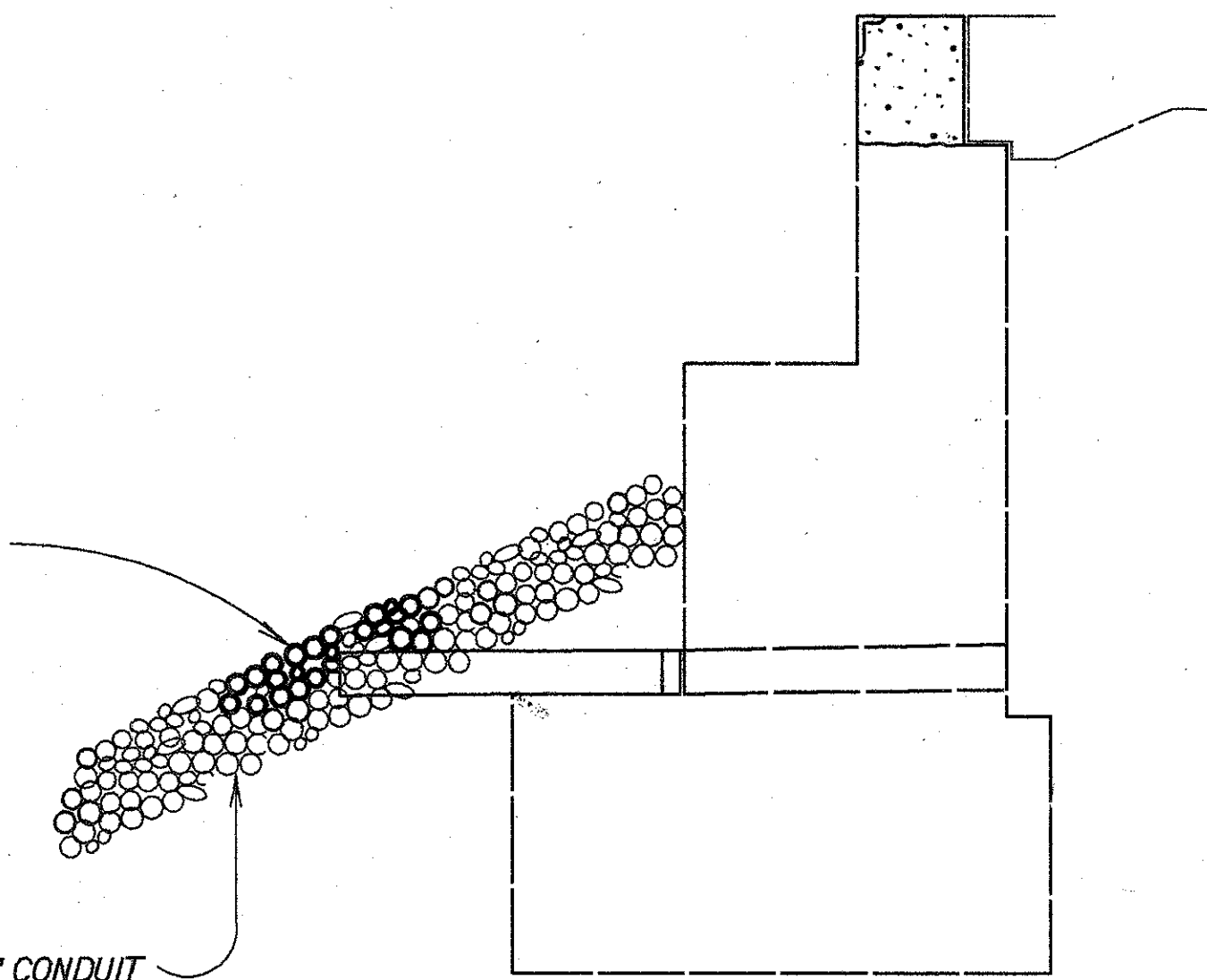
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MTG			GG	LCL	7/14/82	

SCUPPER MODIFICATION DETAIL

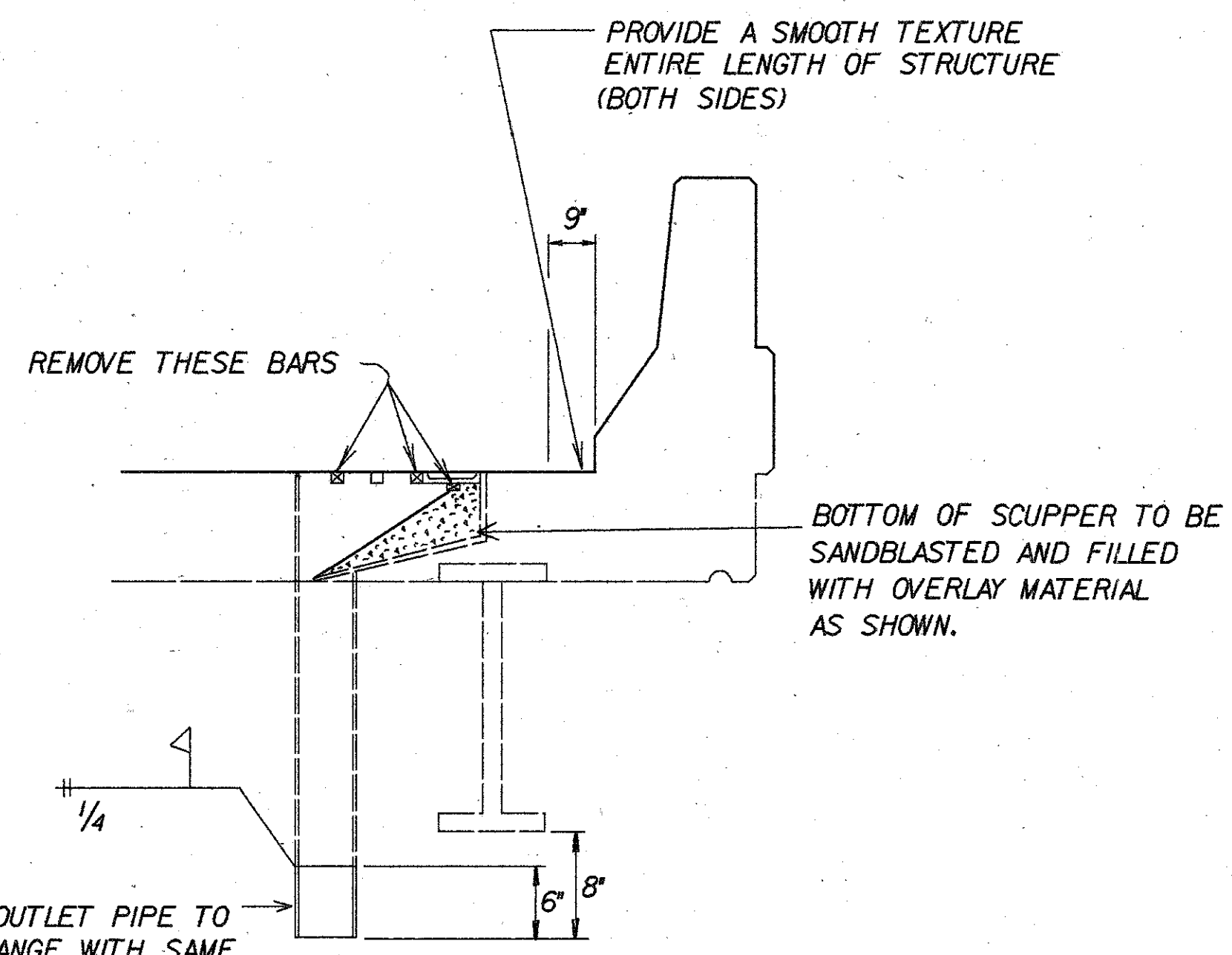


PLAN VIEW

ESTIMATED QUANTITY 25 CU.YD. OF ITEM 601, CRUSHED AGGREGATE SLOPE PROTECTION TO BE USED AS DIRECTED BY THE ENGINEER FOR LEVELING THE EXISTING SLOPE PROTECTION



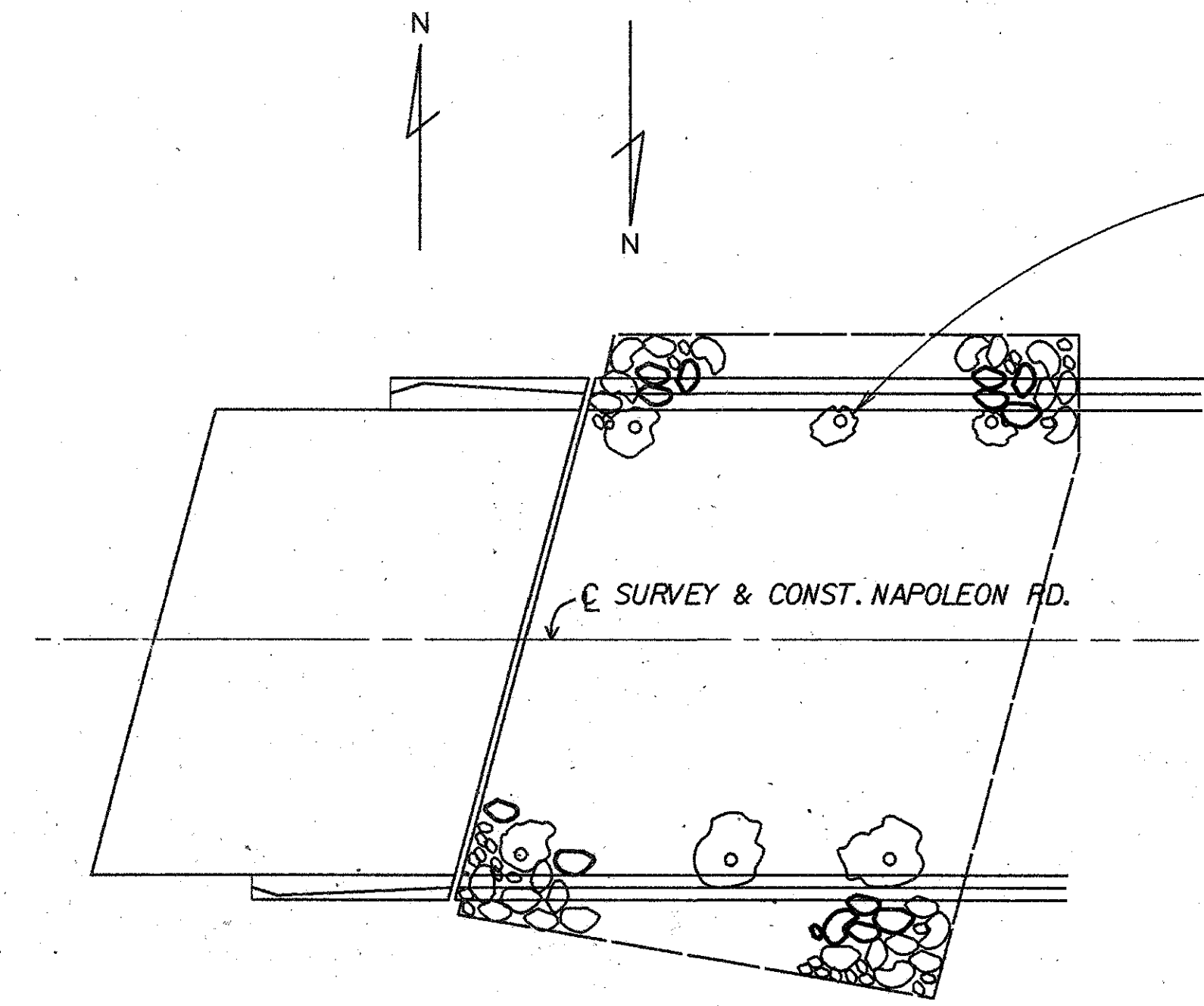
ELEVATION



SECTION K-K

EXTEND EXISTING OUTLET PIPE TO 8\"/>

FORWARD ABUTMENT REAR ABUTMENT



PLAN

THE EXISTING AND PROPOSED CRUSHED AGGREGATE SLOPE PROTECTION DIRECTLY UNDER THE BRIDGE DRAINAGE SCUPPERS SHALL BE PROTECTED BY GROUTING A 5' X 5' AREA OF AGGREGATE AS PER 601.03. AN ESTIMATED QUANTITY OF 34 SQ.YDS. SHALL BE USED AS DIRECTED BY THE ENGINEER FOR THIS PURPOSE.

ZFA112002101W75NASC .DON1

M00-75-301 (10/20/02) # 4

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 2					8 / 8
MISCELLANEOUS DETAILS BRIDGE NO. W00-75-1383 NAPOLEON ROAD					
DESIGNED MTG	DRAWN	TRACED	CHECKED GG	REVIEWED DATE LCL 7/14/02	REVISED