

MICROFILMED
JUN 22 1982

MICROFILMED
DEC 27 1985

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BRO - 774 - 7.93
CLARK TOWNSHIP
BROWN COUNTY

BROWN COUNTY OHIO
BRO-774-7.93 FHWA REGION 5
FEDERAL PROJECT

1
9

R.O.S. 1007 (3)

MICROFILMED
DEC 9 1985

CONVENTIONAL SIGNS

County Line _____
Township Line _____
Section Line _____
Corporation Line _____ or _____
Fence Line (existing) -x-x- (proposed) -x-x-
Center Line _____
Trees (to be removed) X X
Utility Poles: Telephone ϕ , Power ϕ , Light ϕ
Limited Access (only) _____ LA
Right of Way (only) _____ RW
Limited Access & Right of Way _____ LA & RW
Existing Right of Way _____
Property Line (in existing fence) -x-x-
Railroad _____
Guardrail (existing) -o-o- (proposed) -o-o-

INDEX OF SHEETS

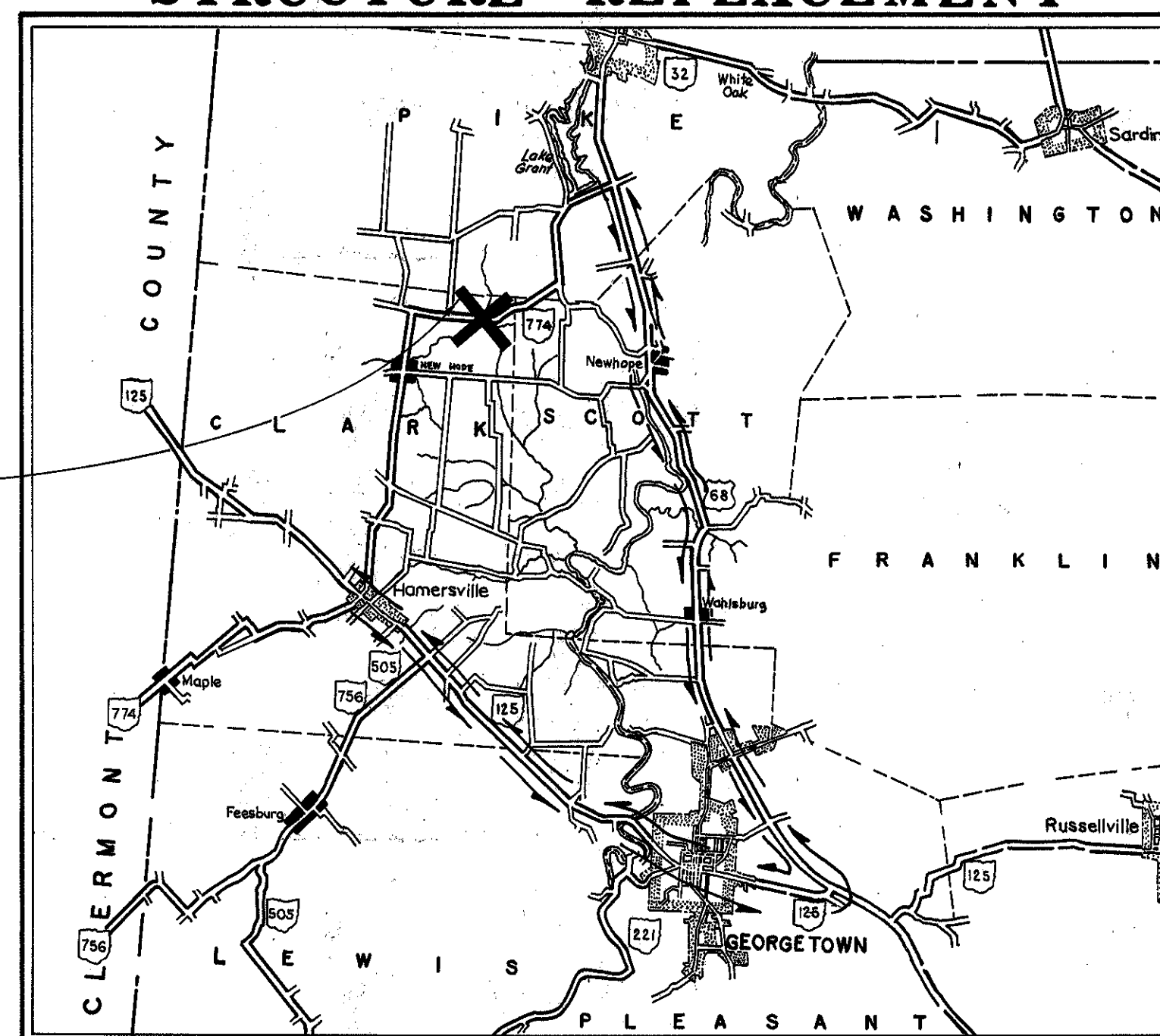
Title Sheet. 1
Plan & Profile. 2
General Notes, Typical Section and General Summary. 3
Box Section & Headwall Plan. 4
Cross Sections. 5-6
Right of Way. 7-9

LINE DATA

Begin Work Sta. 417+00
End Work Sta. 423+00

Net Length of Work = 600 Lin. Ft. or 0.114 Miles
Begin Project Sta. 417+50
End Project Sta. 423+00
Net Length of Project = 550 Lin. Ft. or 0.104 Miles

STRUCTURE - REPLACEMENT



LOCATION AND DETOUR MAP

0 1 2 3 4 5 6
SCALE OF MILES

Portion to be improved _____
State Roads _____
Other Roads _____

SCALES

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

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS

CB-2-2-A&B	6-1-65
MC-3	6-1-73
GR-2B	12-6-76
GR-4	12-6-76
MC-1	6-13-69
MC-4	7-26-76
GR-1	12-6-76

SUPPLEMENTAL SPECIFICATIONS

1001 1-3-77
955 6-3-78

1979 SPECIFICATIONS

The standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications in the proposal shall govern this improvement.

The right of way for this improvement will be provided by the State of Ohio.

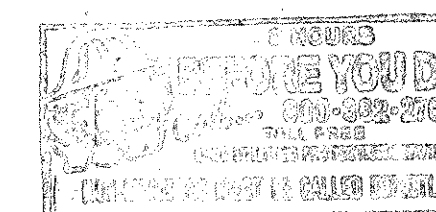
I hereby approve these plans and declare that the making of this improvement will require the closing to traffic of the highway and that detours will be provided as indicated on the plans.

Approved: Herald E. Ham
Date 6-22-77 District Deputy Director of Transportation.

Approved: Robert B. Pfeiffer
Date 2/2/78 Engineer, Bureau of Bridges and Structural Design.

Approved: George A. Nelson
Date 3-24-78 Chief Engineer, Planning and Design or Chief Engineer, Operations.

Approved: David A. Weiss
Date 3-26-79 Director, Department of Transportation.



DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR

DATE

Project: BROWN COUNTY BRO-774-7.93
Date of Letting: 19____, Contract No. _____

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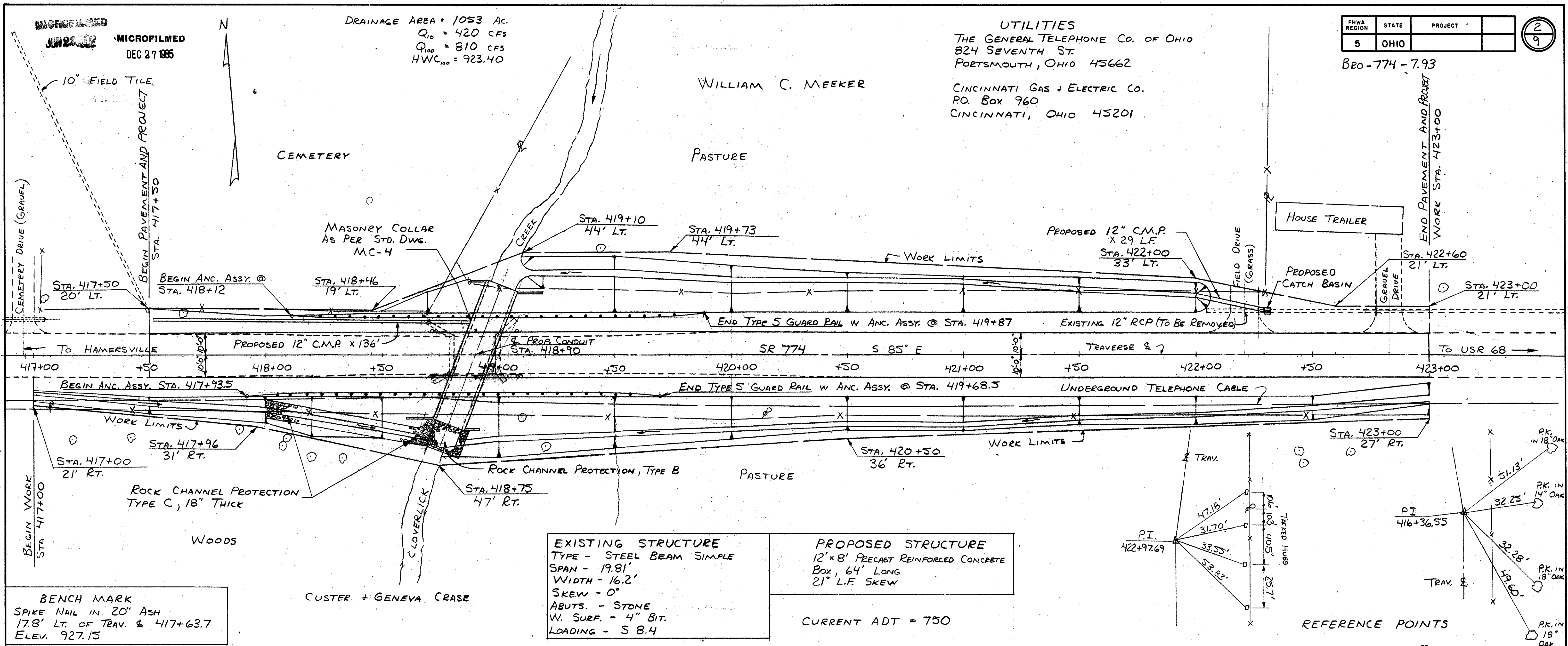
DRAINAGE AREA = 1053 AC.
 $Q_{10} = 420$ CFS
 $Q_{100} = 810$ CFS
HWC₁₀₀ = 923.40

UTILITIES
THE GENERAL TELEPHONE CO. OF OHIO
824 SEVENTH ST.
PORTSMOUTH, OHIO 45662
CINCINNATI GAS & ELECTRIC CO.
P.O. Box 960
CINCINNATI, OHIO 45201

FHWA REGION	STATE	PROJECT
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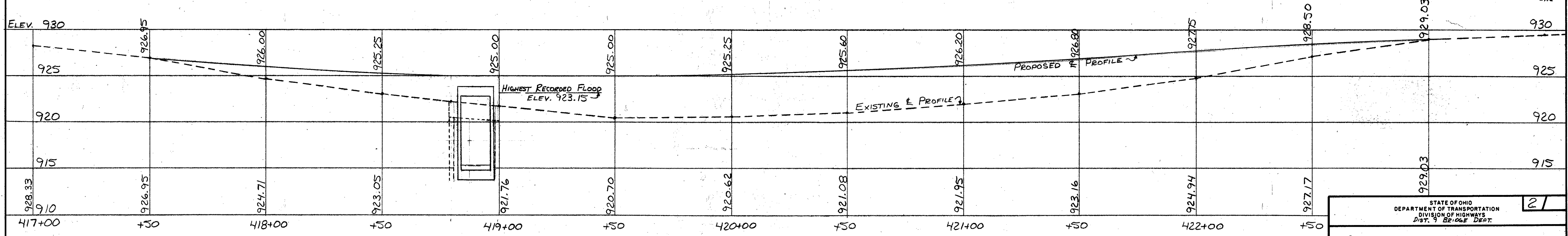
Bro-774-7.93



BENCH MARK
SPIKE NAIL IN 20" ASH
17.8' LT. OF TRAV. & 417+63.7
ELEV. 927.15

EXISTING STRUCTURE	PROPOSED STRUCTURE
TYPE - STEEL BEAM SIMPLE	12' x 8' PRECAST REINFORCED CONCRETE
SPAN - 19.81'	Box, 64' LONG
WIDTH - 16.2'	21' L.F. SKEW
SKEW - 0°	
ABUTS. - STONE	
W. SURF. - 4" BIT.	
LOADING - S 8.4	

CURRENT ADT = 750



STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DIST. 9 BRIDGE DEPT.					
PLAN AND PROFILE BRIDGE No. Bro-774-0796 OVER CLOVERLICK CREEK					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
JB	JB	JB	DAB		2-79

Revised 4/17/79

GENERAL NOTES

REFERENCE SHALL BE MADE TO STANDARD DRAWINGS:

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CB-2-2-A+B DATED 6-1-65
MC-3 DATED 6-1-73
GR-2B DATED 12-6-76
GR-4 DATED 12-6-76
MC-1 DATED 6-13-69
MC-4 DATED 7-26-76
GR-1 " 12-6-76

FIELD OFFICE: THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE HAVING A MINIMUM OF 150 SQ. FT. OF FLOOR SPACE AND IN ADDITION TO THE REQUIREMENTS OF ITEM 619, HE SHALL PROVIDE AND MAINTAIN SANITARY PROVISIONS AS PER 107.06. ALL THE ABOVE IS INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 619, FIELD OFFICE.

MONUMENTS SHALL BE CONSTRUCTED AS PER STD. DWG. MC-1 AND AT THE LOCATIONS SHOWN ON SHEET No. 9

STRUCTURE REMOVED, ITEM 202: WHEN NO LONGER NEEDED TO MAINTAIN TRAFFIC THE BRIDGE SHALL BE REMOVED. THE EXISTING 10" I-BEAMS (EIGHT) SHALL BE CAREFULLY DISMANTLED AND PLACED ALONG THE RIGHT-OF-WAY FOR PICKUP BY STATE FORCES. THE REMAINDER OF THE BRIDGE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY HIM.

SIDE DITCH PIPE CONNECTION TO CONCRETE BOX: ALL WORK AND MATERIALS REQUIRED TO EFFECT THIS CONNECTION, INCLUDING THE CONCRETE COLLAR, SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 603, 12'x8' PRECAST BOX. THE SIDE DITCH PIPE SHALL BE LAID ON A GRADE ROUGHLY PARALLEL TO THE EXISTING DITCH. THE OUTLET ELEVATION OF THE 12" SIDE DITCH PIPE SHALL BE APPROXIMATELY 918.00. (ALSO INCLUDES CUTTING HOLE IN BOX).

ITEM 304, AGGREGATE BASE IS INTENDED FOR USE ON THE FIELD DRIVE AND RESIDENCE DRIVE AT THE FORWARD END OF THE PROJECT. IT SHALL BE PLACED ON THESE DRIVES TO THE LINES AND GRADES AS DIRECTED BY THE ENGINEER.

PRECAST REINFORCED CONCRETE BOX SECTIONS:

DESCRIPTION: THIS ITEM SHALL CONSIST OF FURNISHING AND CONSTRUCTING PRECAST REINFORCED CONCRETE BOX SECTIONS (SUPPLEMENTAL SPECIFICATION 955) AT THE LOCATION INDICATED.

MATERIALS: MATERIAL FOR THE PRECAST STRUCTURE SHALL BE IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 955. GRANULAR BEDDING AND BACKFILL MATERIAL SHALL MEET THE REQUIREMENTS OF 603.02 AND FILL MATERIALS, WHEN SPECIFIED, SHALL BE IN ACCORDANCE WITH 203.

INSTALLATION: THIS STRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 603 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, EXCEPT AS MODIFIED HEREIN.

603.03 SHALL BE REQUIRED AS FOLLOWS:

WHERE THE BOX SECTION IS TO BE PLACED IN A TRENCH, A MINIMUM TRENCH WIDTH OF 2 FEET ON EACH SIDE OF THE BOX SECTION SHALL BE REQUIRED. WHERE THE BOX SECTION IS TO BE PLACED WITHIN AN EMBANKMENT OR THE BOX SECTION IS ABOVE THE EXISTING GROUND, THE REQUIREMENT THAT THE EMBANKMENT SHALL BE CONSTRUCTED AT LEAST TO THE SPRINGLINE BEFORE TRENCHING IS WAIVED.

603.04 SHALL BE REQUIRED AS FOLLOWS:

THE BEDDING SHALL CONSIST OF A BED OF GRANULAR MATERIAL HAVING A THICKNESS OF AT LEAST 6 INCHES BELOW THE BOTTOM OF THE BOX SECTION AND EXTENDING 2 FEET ON EACH SIDE OF THE BOX SECTION.

603.06 SHALL BE MODIFIED AS FOLLOWS:

WHEN JOINTS ARE OF CEMENT MORTAR TYPE, THE JUTE GASKET SHALL NOT BE REQUIRED.

603.08 SHALL BE MODIFIED AS FOLLOWS: WHEN THE TOP OF THE TRENCH IS ABOVE THE TOP OF BOX, BACKFILLING SHALL BE IN ACCORDANCE WITH TYPE A OR TYPE B CONDUIT. WHEN THE TOP OF THE BOX SECTION IS ABOVE THE TOP OF THE TRENCH, GRANULAR MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM DEPTH OF 2 FEET OVER THE TOP OF THE BOX SECTIONS (WHERE APPLICABLE) AND FOR A WIDTH OF 4 FEET ON EACH SIDE OF THE BOX SECTION OR AS DIRECTED BY THE ENGINEER. THE REMAINDER OF THE ADJACENT EMBANKMENT MATERIAL SHALL BE FURNISHED, PLACED AND PAID FOR IN ACCORDANCE WITH 203. BACKFILL AND FILL MATERIAL SHALL BE PLACED UNIFORMLY ON BOTH SIDES OF THE BOX SECTION.

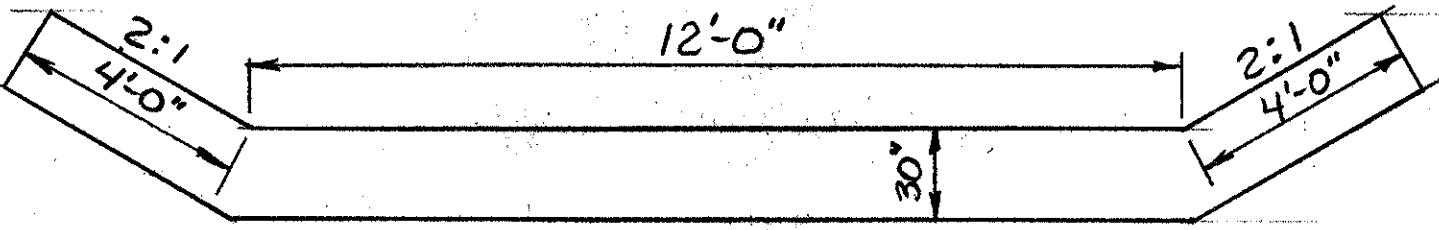
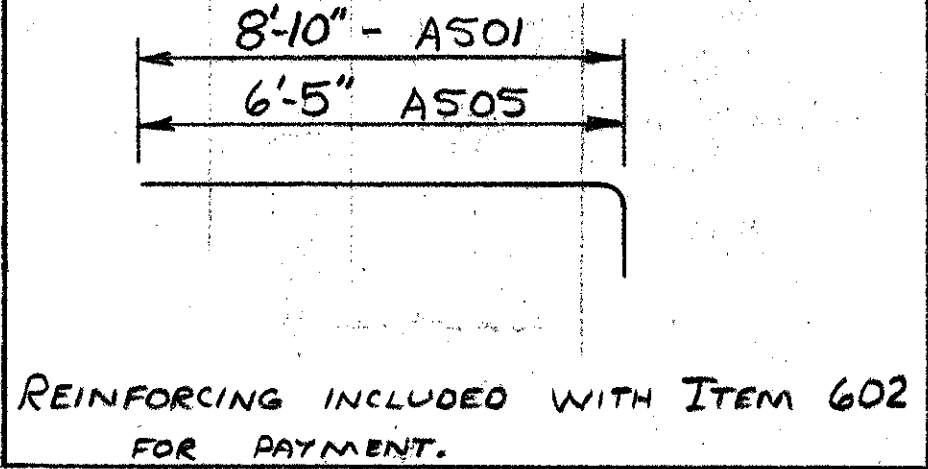
UTILIZING STEEL HARDWARE SHALL HAVE TYPE A WATERPROOFING IN ACCORDANCE WITH 512.05. (APPLICABLE TO 850 DESIGN)
BASIS FOR PAYMENT:

ITEM	UNIT	DESCRIPTION
603	LINEAR FOOT	SPAN' x RISE' PRECAST REINFORCED CONCRETE BOX SECTIONS (AS PER SS 955) 850 TABLE 2

PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR THE ABOVE ITEM 603. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE INSTALLATION. (ASTM C 789 SPECS ARE AVAILABLE FROM DISTRICT 9 OR CENTRAL OFFICE BRIDGE BUREAU)

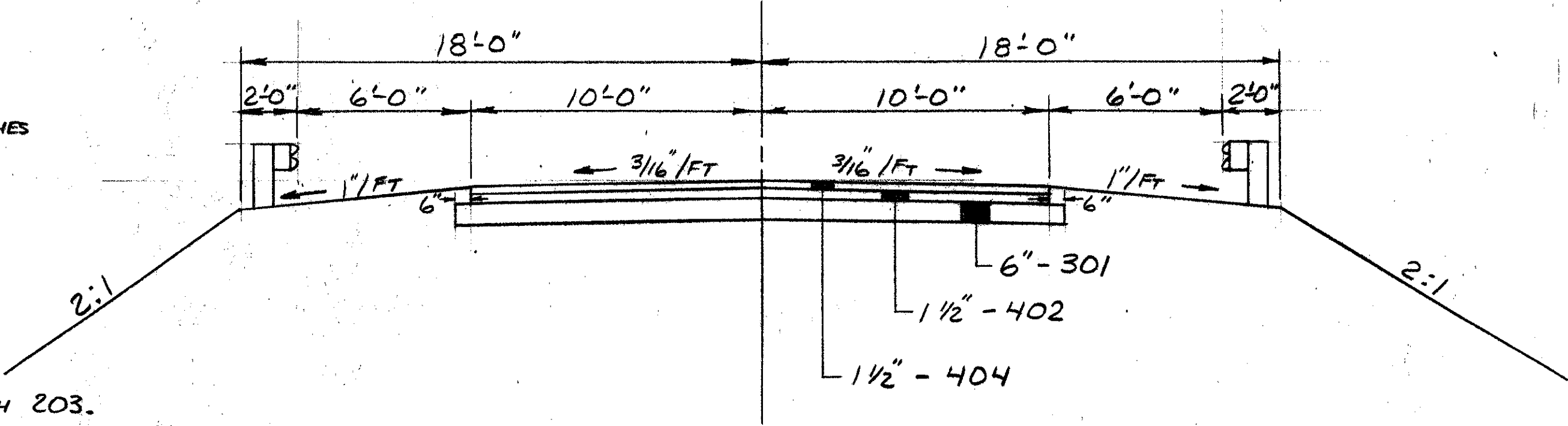
STEEL LIST				
MARK	NO.	LGTH.	WGT.	SHR.
A500	6	33'-0"	207	F.B.
A501	18	9'-7"	180	B
A502	18	6'-7"	124	S
A503	10	12'-8"	133	F.B.
A504	10	11'-8"	122	S
A505	10	7'-2"	75	B
A506	10	4'-2"	44	S
A507	8	7'-8"	64	F.B.
A508	8	7'-2"	60	S
A509	28	2'-1"	61	S

(FIELD BEND)



TYPICAL SECTION
ROCK CHANNEL PROTECTION, TYPE B, WITH BEDDING
OUTLET ONLY, 12' LONG

AVG. WIDTH = 14.5' + 8' = 22.5'
VOL. = 22.5' x 12' x 2.5'/27 = 25 CY



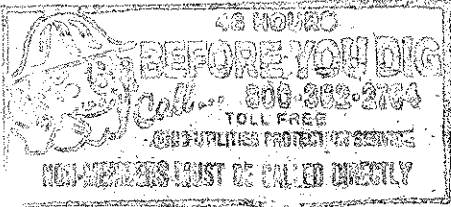
TYPICAL SECTION
STAS. 417+00 TO 423+00

FHWA REGION	STATE	PROJECT	
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BR0-774-7.93

GENERAL SUMMARY TYPE CODE 6203 UNLESS OTHERWISE SHOWN			
ITEM	TOTAL	UNIT	DESCRIPTION
201	LUMP	LUMP	CLEARING AND GRUBBING
202	LUMP	LUMP	STRUCTURE REMOVED
202	24	LIN. FT.	PIPE REMOVED, 15" AND UNDER
203	381	CU. YD.	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION
203	2332	CU. YD.	EMBANKMENT
203	1223	SQ. YD.	SUBGRADE COMPACTION
624	LUMP		MOBILIZATION
SPECIAL	47	SQ. YD.	MEMBRANE WATERPROOFING
301	214	CU. YD.	BITUMINOUS AGGREGATE BASE AC-20 OR (RT-11 OR RT-12)
304	6	CU. YD.	AGGREGATE BASE
402	53	CU. YD.	ASPHALT CONCRETE, AC-20
404	53	CU. YD.	ASPHALT CONCRETE, AC-20
510	18	EACH	DOWEL HOLES
602	24	CU. YD.	CONCRETE MASONRY
603	64	LIN. FT.	12x8' PRECAST REINFORCED CONCRETE BOX SECTION, AS PER SS 955, ASTM-C850 TABLE 2
603	165	LIN. FT.	12" CONDUIT, TYPE C, 107.05
604	1	EACH	CATCH BASIN 2-2-B
604	6	EACH	REFERENCE MONUMENTS
606	250	LIN. FT.	GUARDRAIL, TYPE 5, AS PER PLAN
606	4	EA.	ANCHOR ASSEMBLY
614	LUMP	LUMP	MAINTAINING TRAFFIC
619	LUMP	LUMP	FIELD OFFICE
623	LUMP	LUMP	CONSTRUCTION LAYOUT STAKES
EROSION CONTROL TYPE CODE Y005			
659	1.29	TON	AGRICULTURAL LIMING
659	2871	SQ. YD.	SEEDING AND MULCHING
659	0.26	TON	COMMERCIAL FERTILIZER (12-12-12)
601	32	CU. YD.	ROCK CHANNEL PROTECTION, TYPE C, WITHOUT BEDDING
601	25	CU. YD.	ROCK CHANNEL PROTECTION, TYPE B, WITH BEDDING



STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DIST. 9 BRIDGE DEPT.					
GENERAL NOTES, TYPICAL SECTION, AND GENERAL SUMMARY BR0-774-0796					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
JB	JB	JB	DAB		

3
9

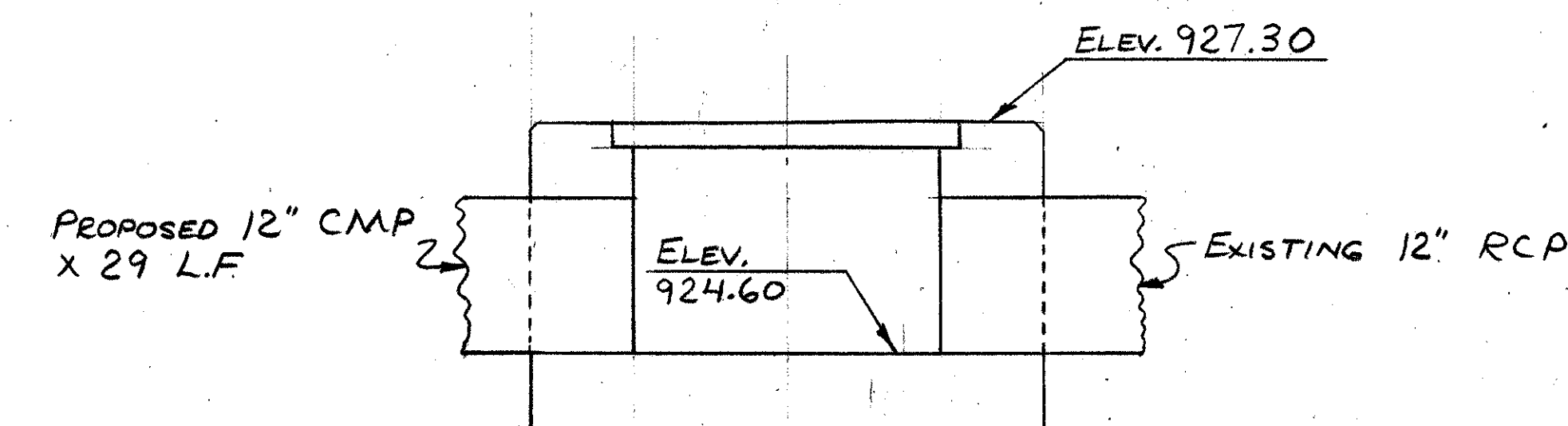
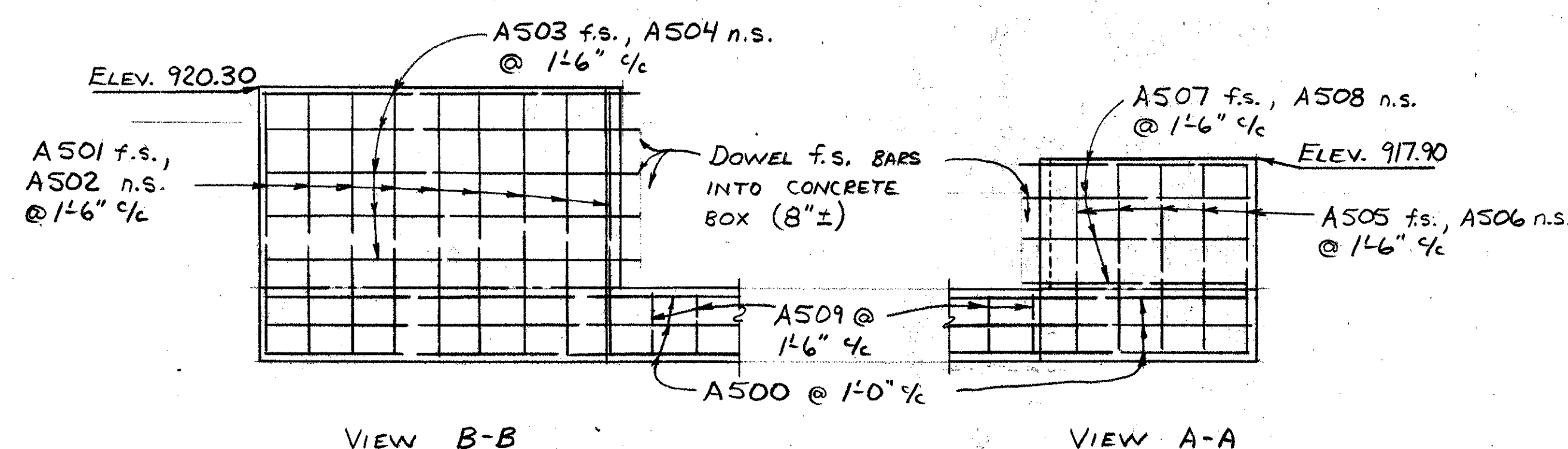
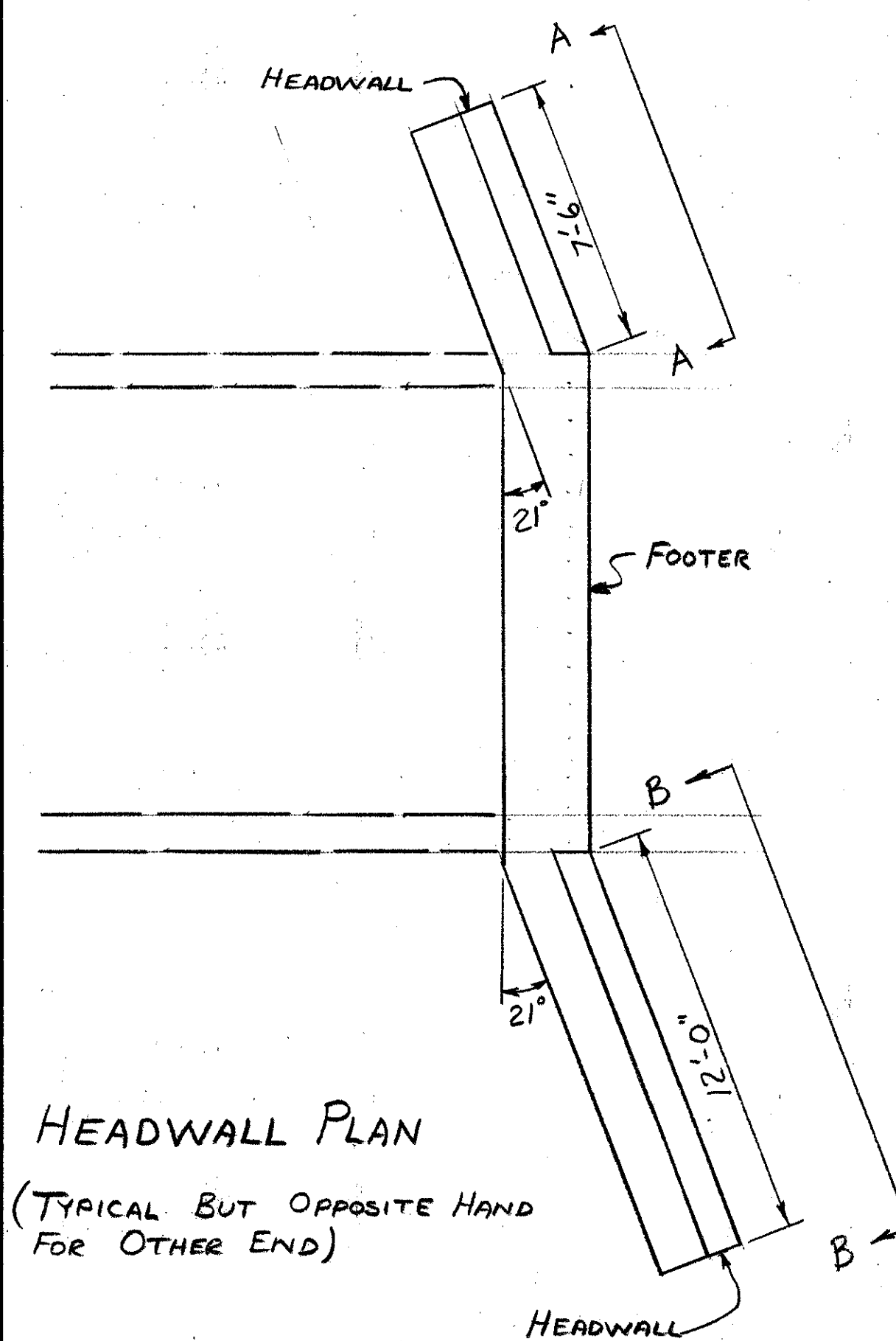
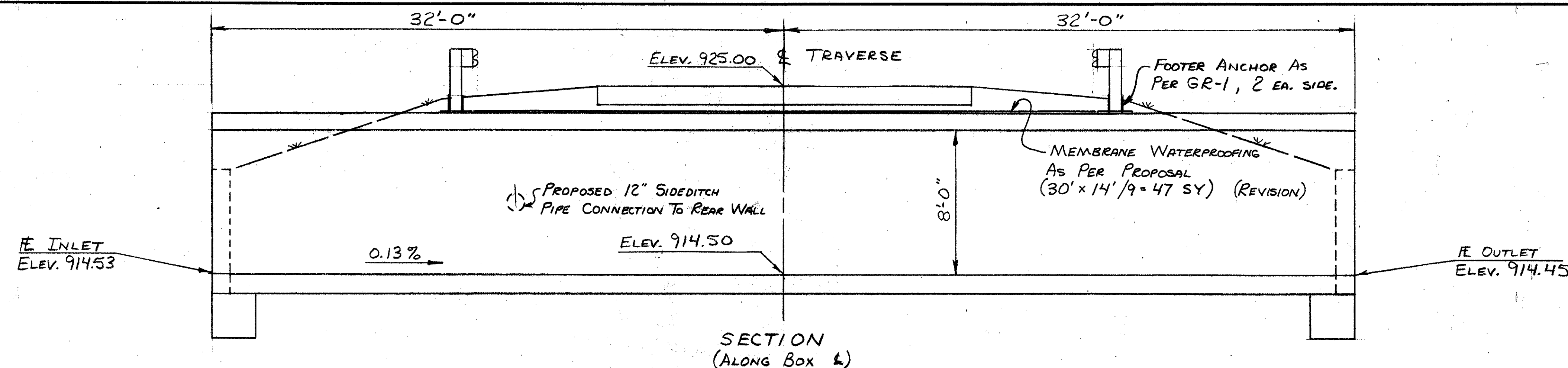
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79

RECEIVED
JUN 22 1979

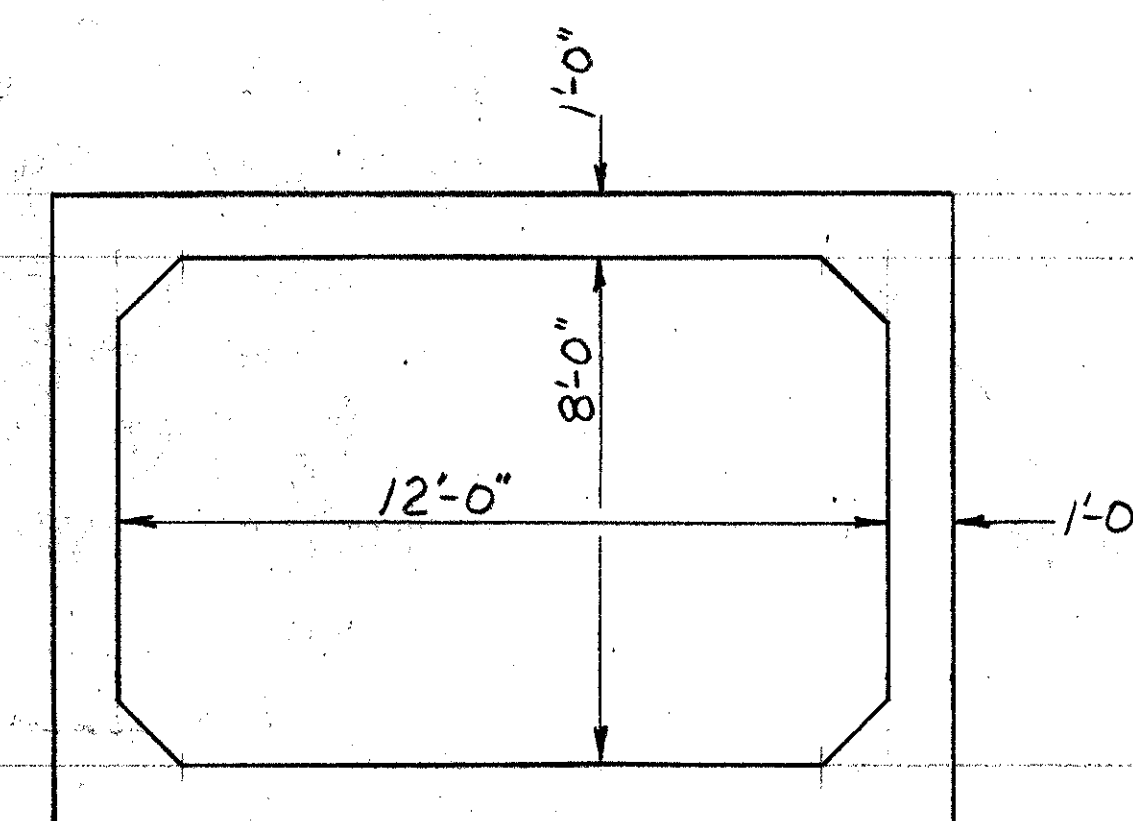
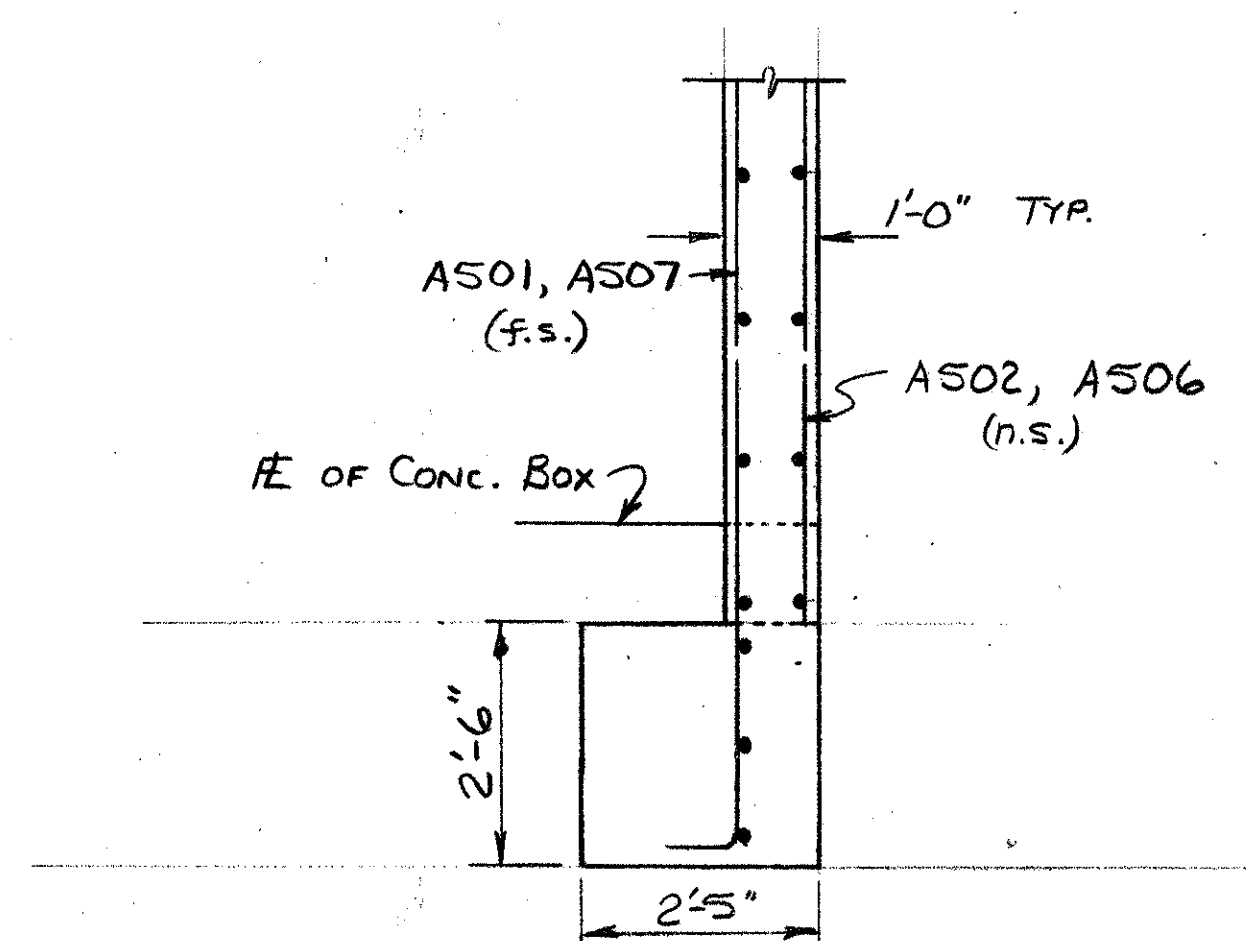
FHWA REGION	STATE	PROJECT
5	OHIO	

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BR0-774-7.93



PROPOSED CATCH BASIN @
STA. 422+29.2, 18.8' LT.
(BUILD AS PER STD. DWG. 2-2-B)



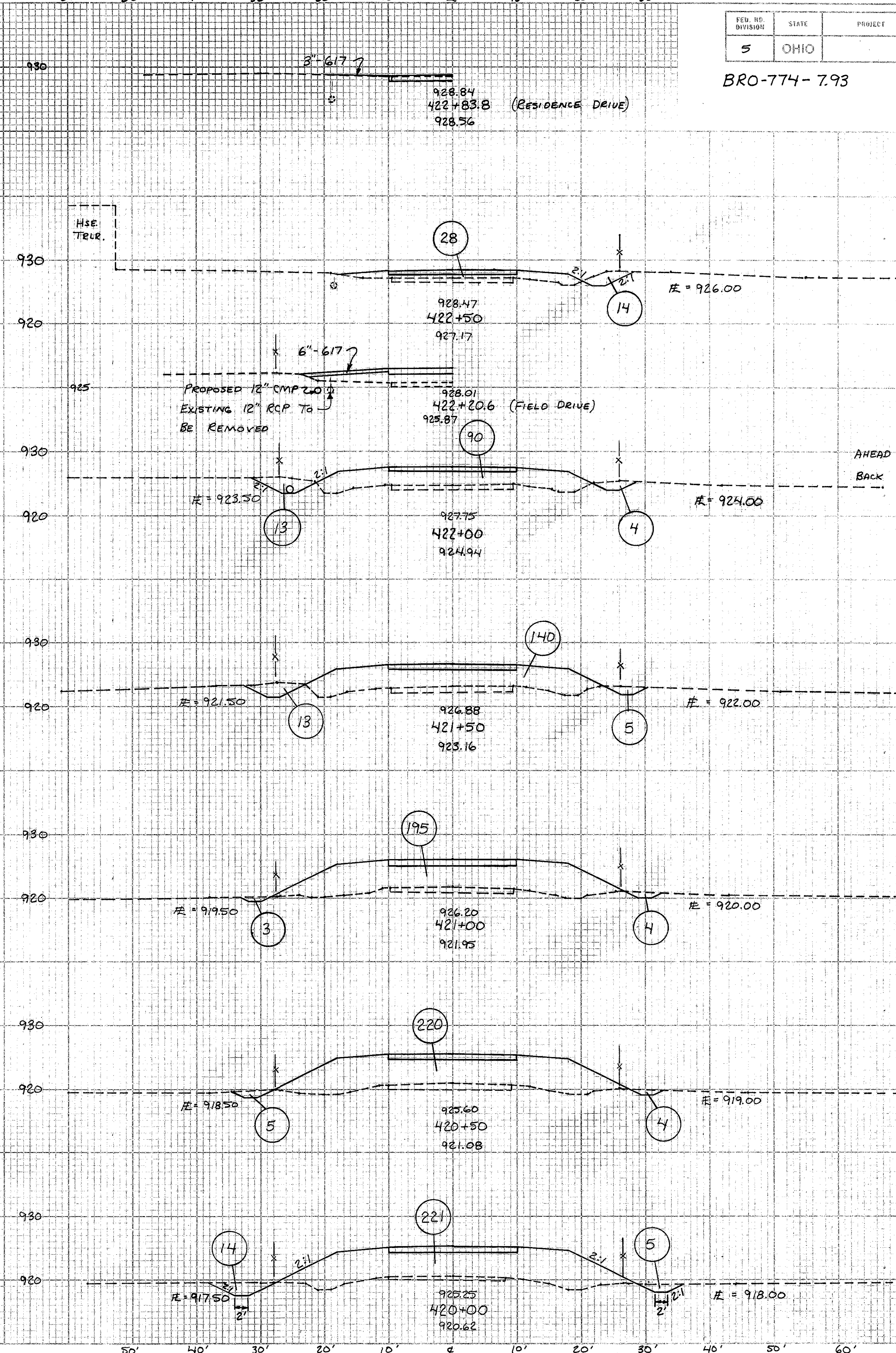
STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DIST. 9 BRIDGE DEPT.						
BOX SECTION AND HEADWALL PLAN						
BR0-774-0796						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
gB	gB	gB	DAB			2-79 JB

Revised 4/17/79

SEEDING		END WIDTH	50 YDS.
68	920	920	920
381	920	920	920
69	920	920	920
273	920	920	920
29	920	920	920
94	920	920	920
27	920	920	920
53	920	920	920
20	920	920	920
131	920	920	920
27	920	920	920
114	920	920	920
14	920	920	920

[illegible]

	181
27	
	195
43	
	248
46	
	264
49	
	278
51	
	306
59	
	353



59

Bro-774-0796

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JUN 28 1990

SEEDING
ERD
WIDTH
SO.
YDS.

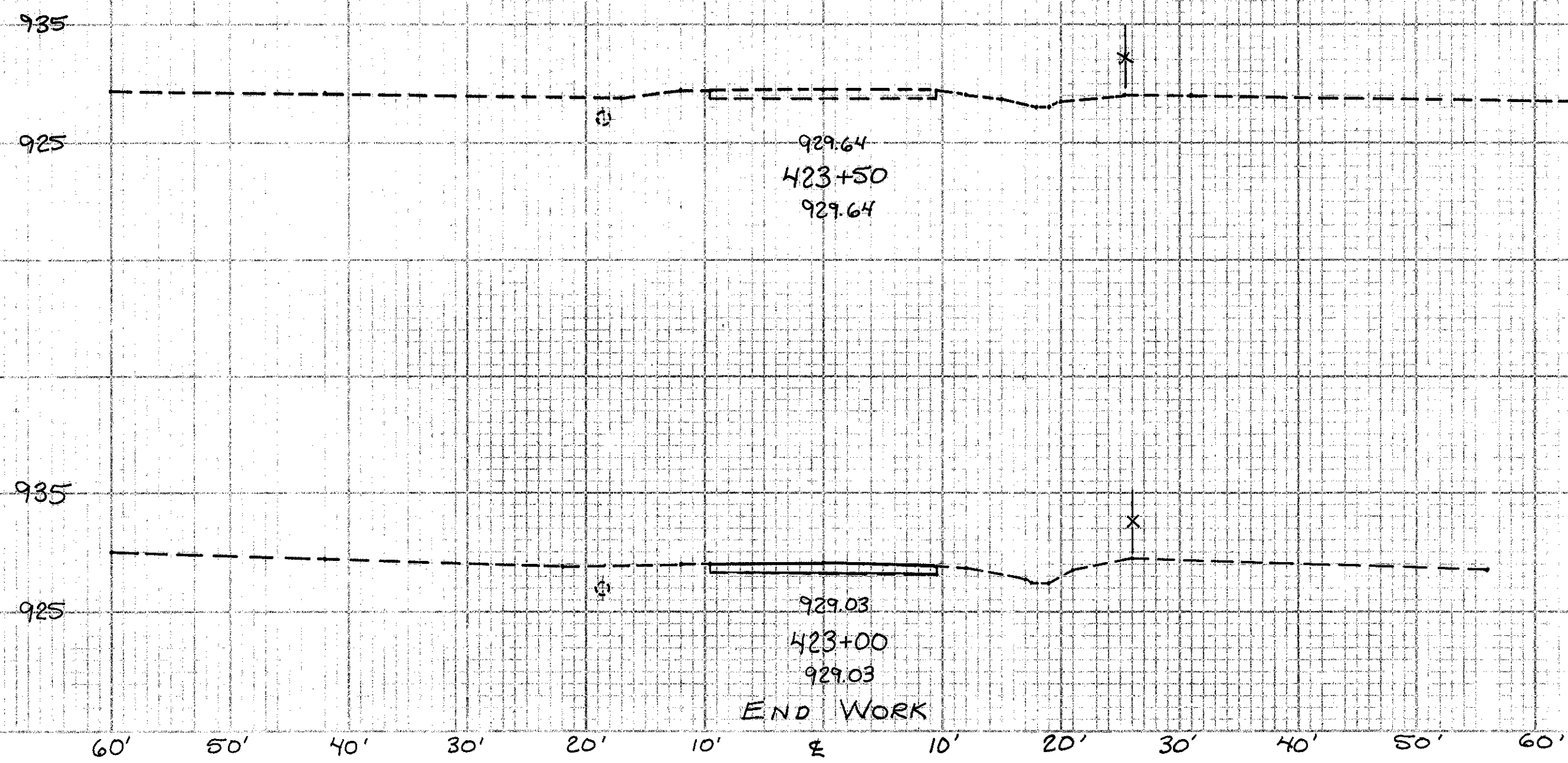
FED. RD DISTRICT	STATE	PROJECT	
5	OHIO		

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BRO-774-7.93

2871 = PLAN TOTAL SEEDING

38



PLAN
TOTAL 381 2854
- 522
2332

0 0

0 0

13 26

STAS. 423+00 TO 423+50

BRO-774-0796