	BY	DATE
DETAILED	J.T.S.	9-12-72
DETAILS CHECKED		
DETAILS INKED	J.T.S.	9-12-72

MICROFILMED
FEB 1 1991

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

I-75-4(20)111

FHWA REGION	STATE	PROJECT	
5	OHIO	I-75-4(20)111	

AUGLAIZE COUNTY

AUG - 75 - 4.97

AUG - 75 - 4.97

AUGLAIZE COUNTY
DUCHOUQUET TOWNSHIP

CONVENTIONAL SIGNS

County Line
Township Line
Section Line
Corporation Line ..... or
Fence Line (existing) — x — 352 — x — (proposed) — x — 353 — x —
Center Line
Trees (12), Stumps, (to be removed)
Utility Poles: Telephone, Power, Light

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)
Railroad
Guardrail (existing) (proposed)
Construction Limits

INDEX OF SHEETS

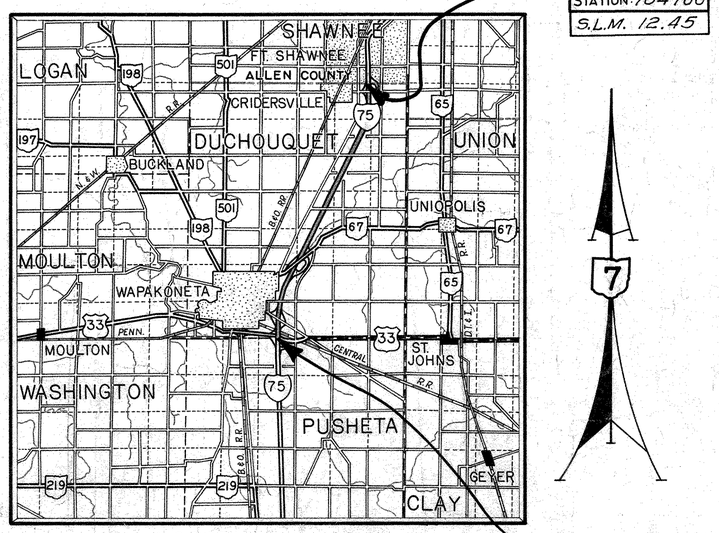
TITLE SHEET	1	MEDIAN OPENING DETAILS	34
PLAN (SCHEMATIC & PROJECT)	2-5	STRUC. SUM. TABLE	35
TYPICAL SECTIONS	6-6-A	STRUCTURE DETAILS	36-54
GENERAL NOTES	7-8	EARTHWORK TABLE	55
TRAFFIC MAINTENANCE	9-11	BASE REPLACEMENT	55
CALCULATIONS	12	CROSS SECTIONS	56-107
GENERAL SUMMARY	13-14	I-75 & U.S.R. 33 INTERCHANGE	108-109
GUARD RAIL TABLE	15	I-75 & C.R 33A INTERCHANGE	110-116
GUARD RAIL DETAILS	16-20	I-75 & S.R 67 INTERCHANGE	117-123
MISCELLANEOUS DETAILS & BRIDGE RESURFACING	20,20A-20D	I-75 & NATIONAL ROAD INTERCHANGE	124-127
PLAN, WEST R.R. AREA	21-23	RAMPS; ROADSIDE REST AREA	128-134
RAMPS, WEST R.R. AREA	24-25	R/W FENCE TABLE	135
PLAN, EAST R.R. AREA	26-29	SIGNING PLANS	136-182, 137A, 137B & 182A
RAMPS, EAST R.R. AREA	30-31	LIGHTING PLANS	183-191
RAMP EXTENSIONS	32-33		
SHEETS DELETED	64, 175-177, 184 & 190		

Sht. No. 14 revised 8-21-74 A.W.G.

LINE DATA

BEGIN WORK AND PROJECT ..... STATION 314+20.55
STATION EQUATION ..... STA. 664+49.88 BACK = STA. 660+47.66 AHEAD

END PROJECT ..... STA. 704+00
END WORK ..... STA. 704+25
TOTAL LENGTH OF PROJECT ..... 39,381.67 LIN. FT. OR 7.458 MILES
TOTAL LENGTH OF WORK ..... 39,406.67 LIN. FT. OR 7.463 MILES



LOCATION MAP

SCALE OF MILES
0 1 2 3 4 5 6 7 8

Portion to be improved
State Roads
Other Roads

SCALES

Plan 0 50 100 200
Profile: Horizontal ..... AS PER PLAN
Profile: Vertical ..... AS PER PLAN

LIMITED ACCESS

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

1973 SPECIFICATIONS

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

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

I hereby approve these plans and declare that the making of this improvement will not require the closing to traffic of the highway and that provisions for the maintenance and safety of traffic will be set forth on the plans and estimates.

Approved _____
Date _____ DISTRICT DEPUTY DIRECTOR OF TRANSPORTATION

Approved Robert B. Pfeifer by EW
Date 1-21-74 ENGINEER, BUREAU OF BRIDGES

Approved E. J. Schnefer
Date 5-16-74 ENGINEER, BUREAU OF ROADWAY DESIGN

Approved William C. Sholl
Date 5-17-74 ASSISTANT DEPUTY DIRECTOR FOR HIGHWAY DESIGN

Approved _____
Date _____ ASSISTANT DEPUTY DIRECTOR FOR REAL ESTATE

Approved William Buckley
Date 5-17-74 ASSISTANT DEPUTY DIRECTOR FOR PROGRAM DEVELOPMENT

Approved _____
Date _____ CHIEF ENGINEER, DIVISION OF HIGHWAYS

Approved William W. Baker
Date 5-17-74 DEPUTY DIRECTOR, DIVISION OF HIGHWAYS

Approved _____
Date _____ ASSISTANT DIRECTOR, DEPARTMENT OF TRANSPORTATION

Approved Phillip Ruble
Date 5/20/74 DIRECTOR, DEPARTMENT OF TRANSPORTATION

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS							
BP-7	1-1-66			GR-2A	1-1-71	HL-1	9-6-73
BP-5	6-1-72	F-2	1-1-71	GR-2B	11-9-71	HL-2	7-27-73
BP-2	12-1-68	F-3	3-10-69	GR-3	11-9-71	HL-3	7-27-73
CB-2-2-A&B	6-1-65			GR-4	11-9-71	HL-8	9-6-73
CB-4	9-1-69	F-5	3-10-69	GR-5	1-1-71	HL-9	9-6-73
CB-8	9-1-69	F-6	10-1-66	GR-6	1-1-71	HL-10	9-6-73
CB-6	6-1-65	816-18.26	9-19-73	L-1	6-1-73	HL-11	4-6-73
		816-12.30	9-19-73	MC-3	6-1-73	MH-1	10-1-68
		816-20.001	9-19-73	MC-4	6-13-69	MH-1A	10-1-68
		816-20.002	9-19-73	MC 5	6-1-65		
		HW-4	1-1-70	SP-53	6-30-61		

SUPPLEMENTAL SPECIFICATIONS	
815	9-20-72
816	9-20-72
1001	9-20-72
836	1-1-71
933	7-6-73
944	12-4-72
S625	1-11-74
S713	1-11-74
830	11-25-70

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ENGINEER ..... DATE

THESE PLANS PREPARED BY DISTRICT 7 UNDER THE SUPERVISION OF SENIOR DESIGN ENGINEER:

Carl C. Reyer
DATE 12-3-73

SEAL

Project: AUG-75-4.97
Date of Letting ..... 19 ..... Contract No.

BRUNING 44-560 14116
LD0300
9 28 70

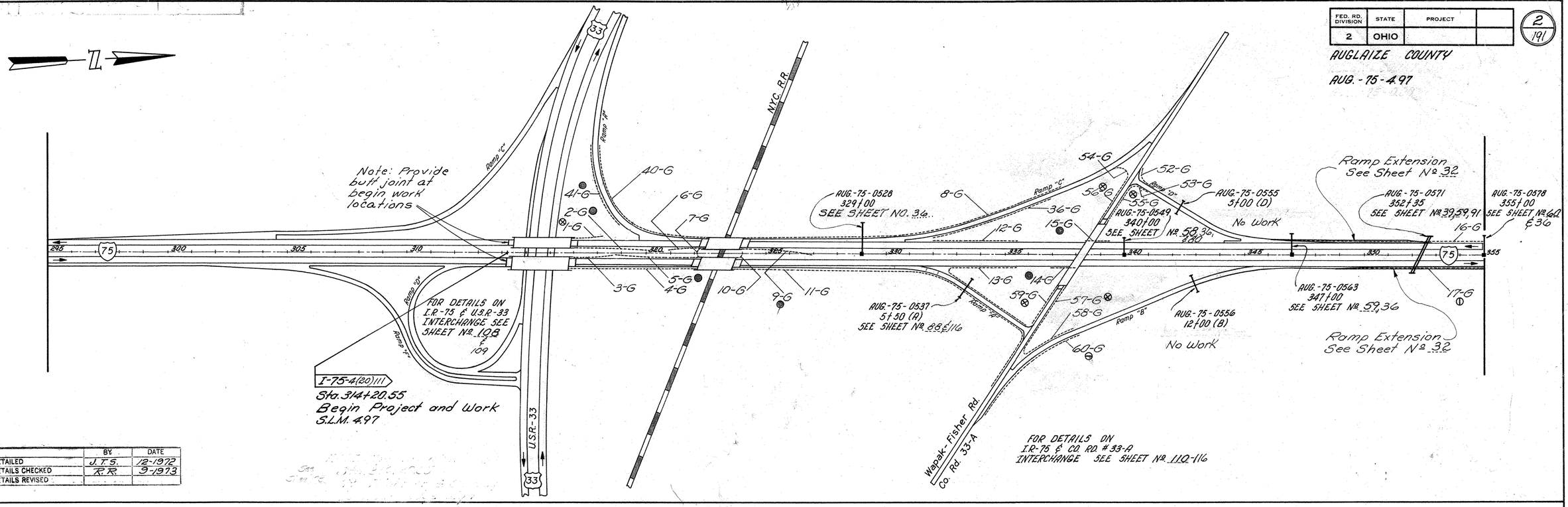
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

2 / 191

AUGLAIZE COUNTY

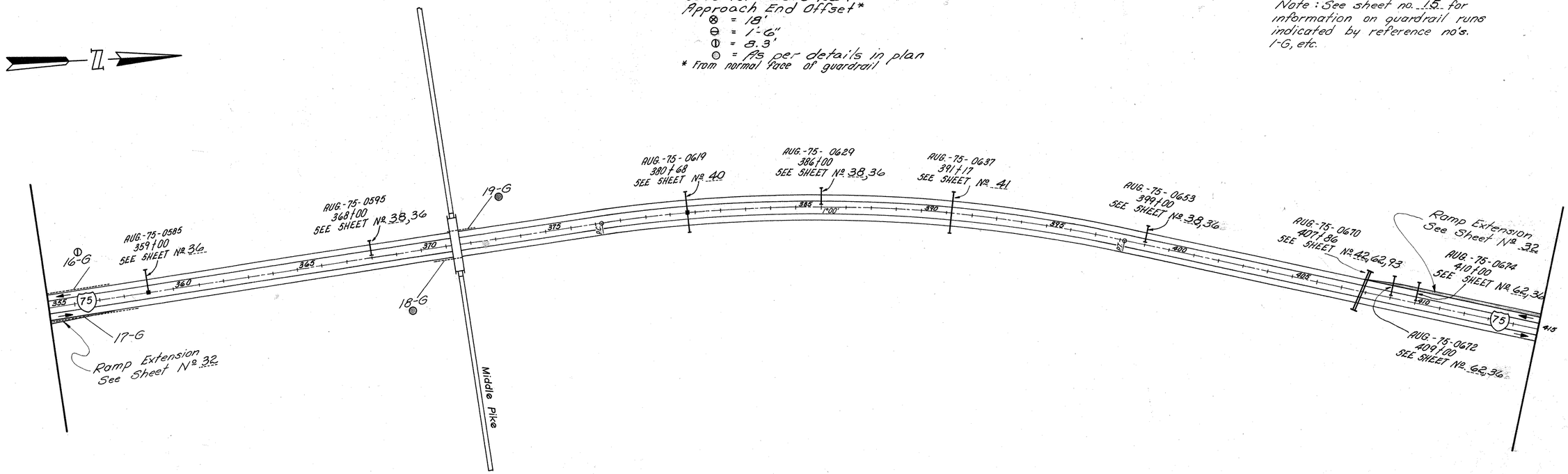
AUG.-75-4.97

	BY	DATE
DETAILED	J.T.S.	12-1972
DETAILS CHECKED	R.R.	3-1973
DETAILS REVISED		



Code for Guard Rail Approach End Offset*
⊗ = 18'
⊖ = 1'-6"
◑ = 8.3'
○ = As per details in plan
* From normal face of guardrail

Note: See sheet no. 15 for information on guardrail runs indicated by reference no's. 1-G, etc.



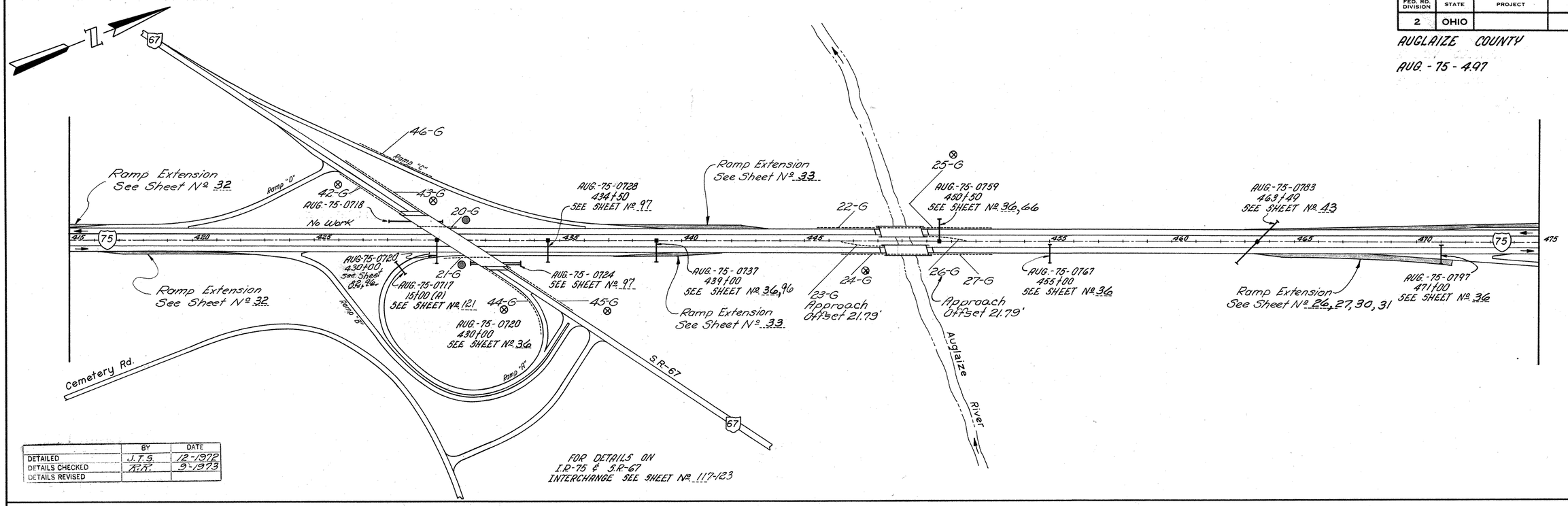
· LOCATION PLAN · STATION 295+00 TO 415+00 · I.R.-75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

3/191

AUGLAIZE COUNTY

AUG.-75-4.97



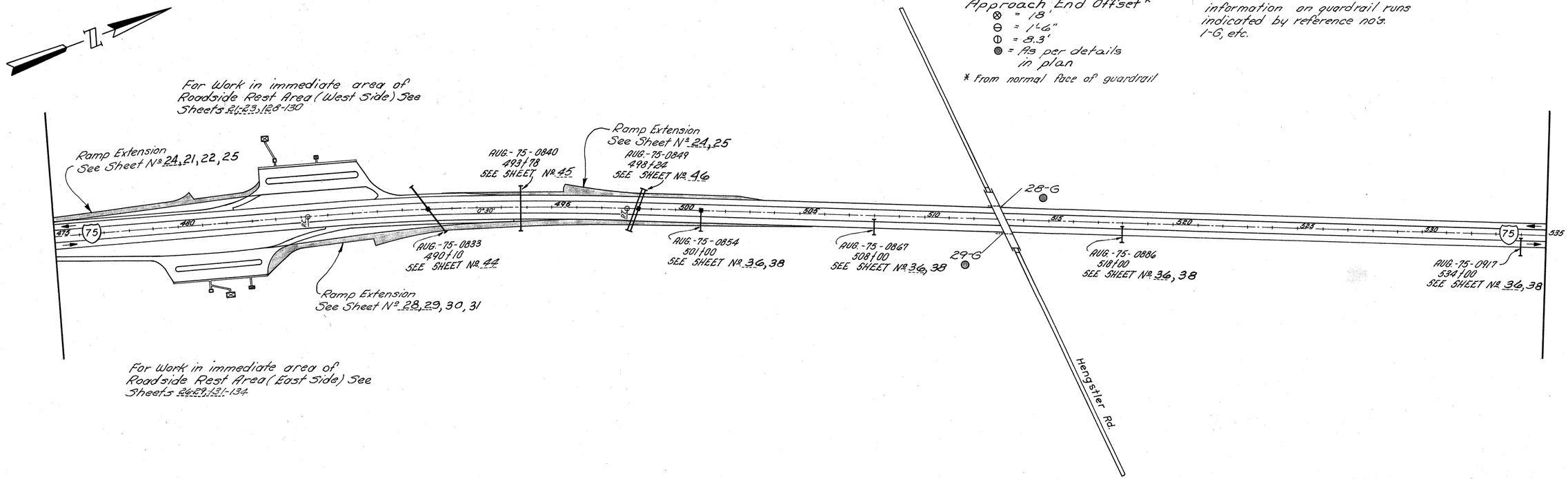
	BY	DATE
DETAILED	J.T.S.	12-1972
DETAILS CHECKED	R.R.	9-1973
DETAILS REVISED		

Code for Guard Rail Approach End Offset*

- ⊗ = 18'
- ⊖ = 1'-6"
- ⊙ = 8.3'
- ● = As per details in plan

* from normal face of guardrail

Note: See sheet no. 15 for information on guardrail runs indicated by reference nos. 1-G, etc.



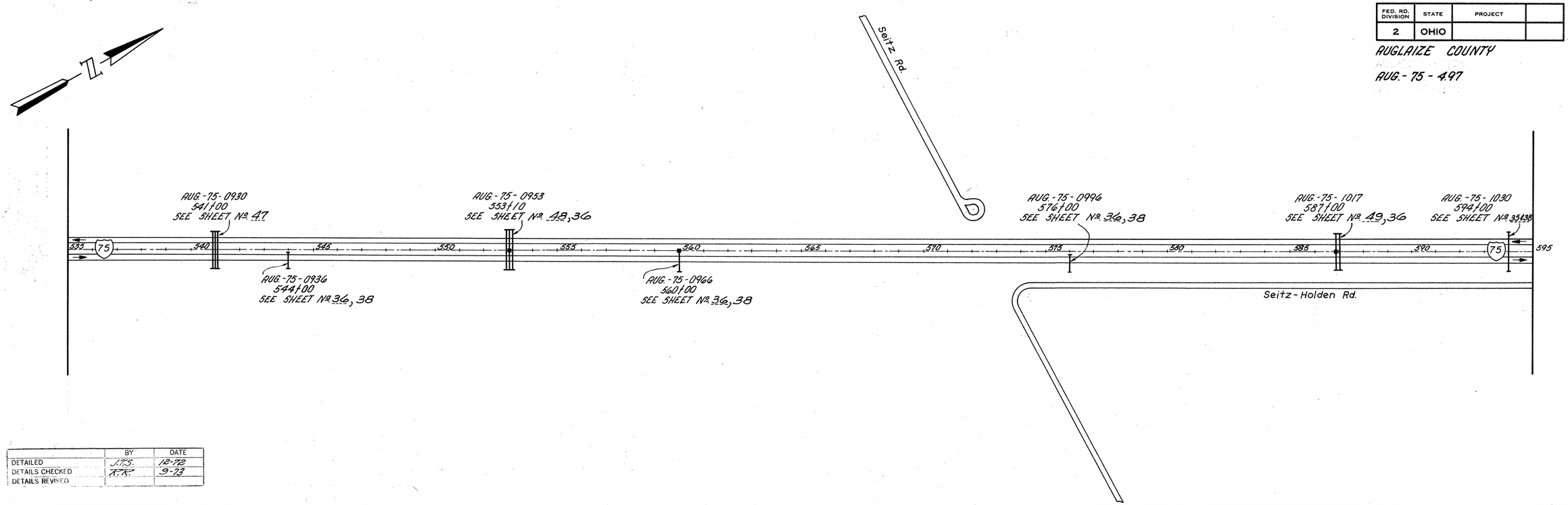
·LOCATION PLAN · STATION 415+00 TO 535+00 · I.R.-75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

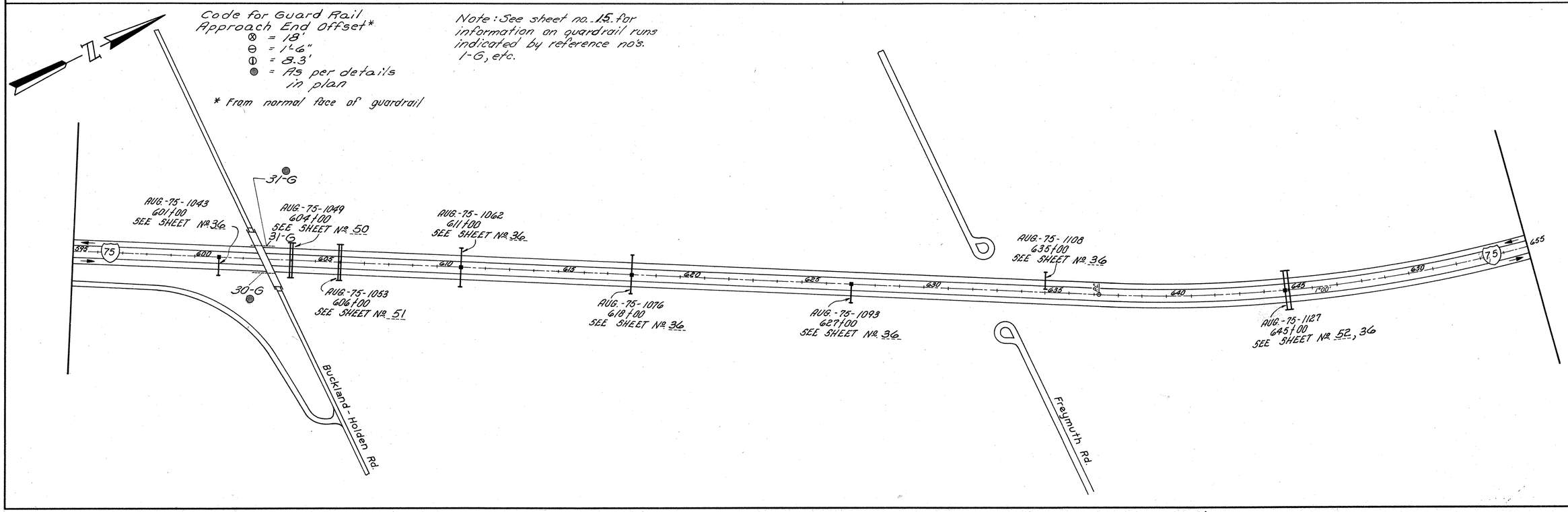
4/19

AUGLAIZE COUNTY

AUG.-75-4.97



	BY	DATE
DETAILED	J.T.S.	12-72
DETAILS CHECKED	A.F.	9-73
DETAILS REVISED		



· LOCATION PLAN · STATION 535+00 TO 655+00 · I.R.-75

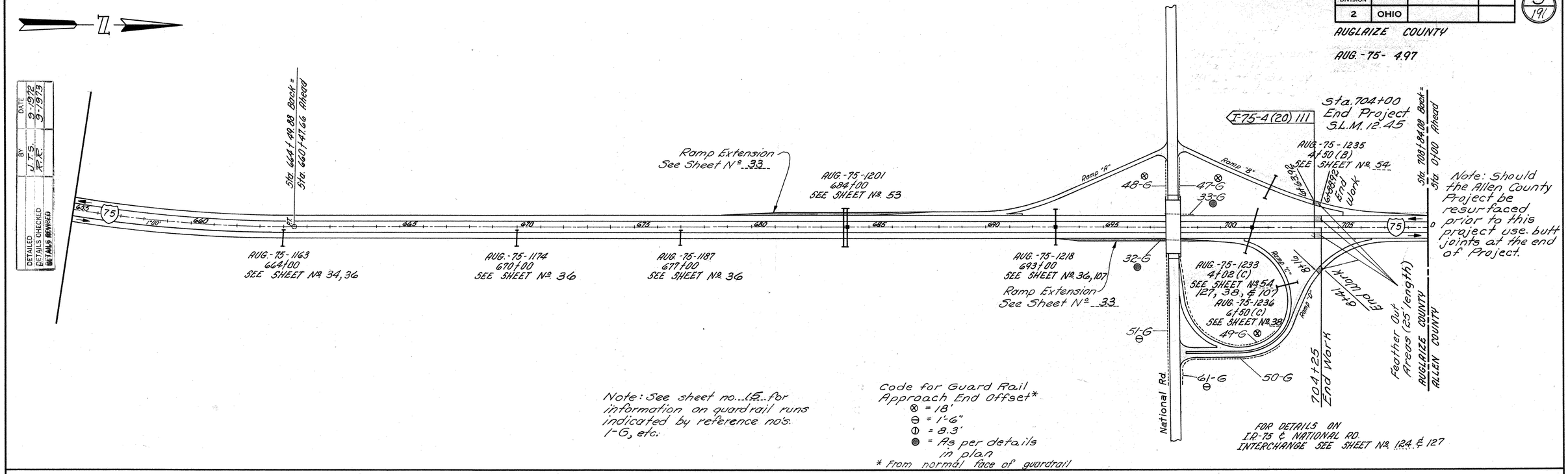
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

5
191

AUGLAIZE COUNTY

AUG.-75- 4.97

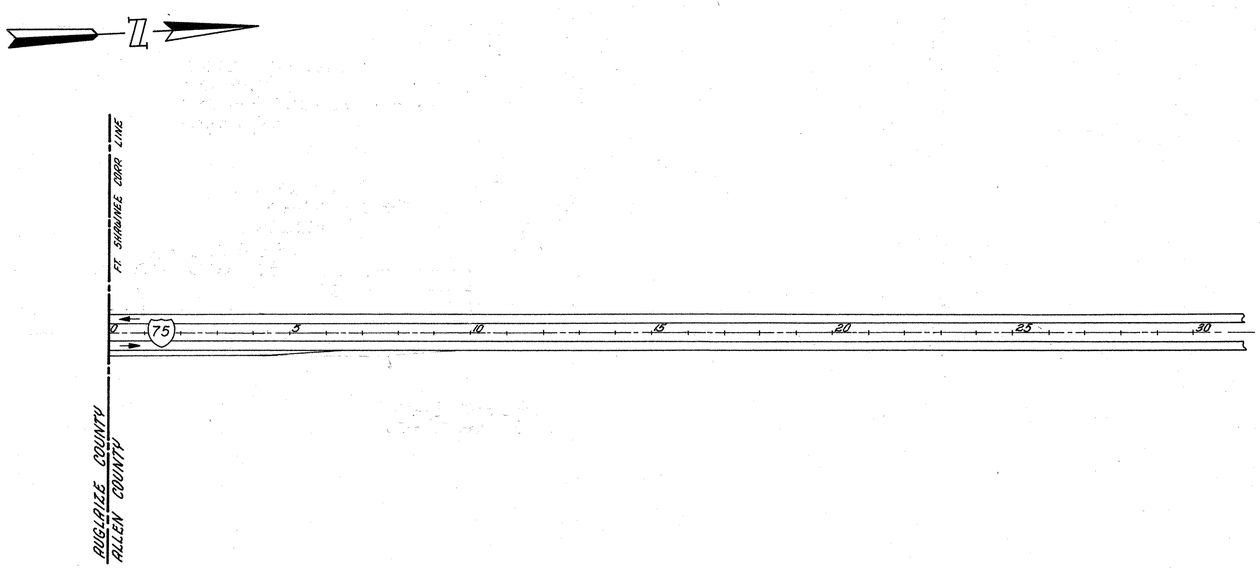
DETAILED	BY	DATE
DETAILS CHECKED	J.T.S.	9-1972
DETAILS REVISED	R.R.	9-1973



Note: See sheet no. 15 for information on guardrail runs indicated by reference no's. 1-G, etc.

Code for Guard Rail Approach End Offset*
⊗ = 18'
⊖ = 1'-6"
⦶ = 8.3'
● = As per details in plan
* From normal face of guardrail

FOR DETAILS ON I.R.-75 & NATIONAL RD. INTERCHANGE SEE SHEET No. 124 & 127



· LOCATION PLAN · STATION 655+00 TO 30+00 · I.R.-75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

6
191

AUGLAIZE COUNTY

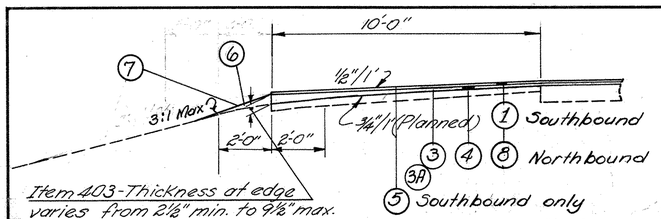
AUG.-75-4.97

TYPICAL SECTIONS

TYPE 404

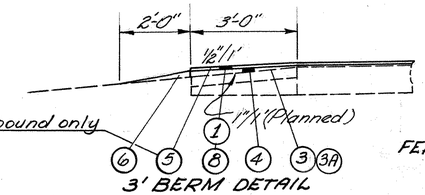
100 % STATE COST (S.B. LANES)

FEDERAL PARTICIPATION (N.B. LANES) OR AS INDICATED

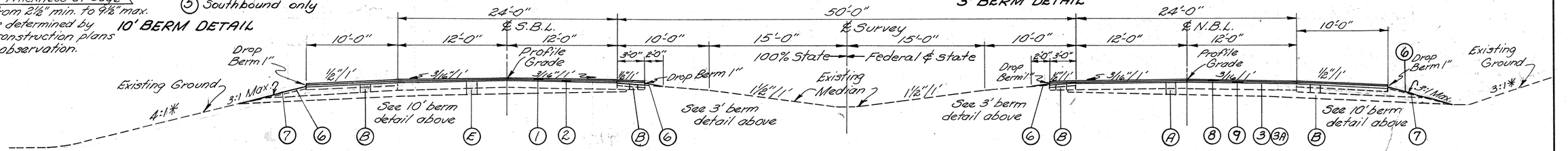


Item 403-Thickness of edge varies from 2½" min. to 9½" max. (ave. 5") as determined by original construction plans and field observation.

10' BERM DETAIL



3' BERM DETAIL



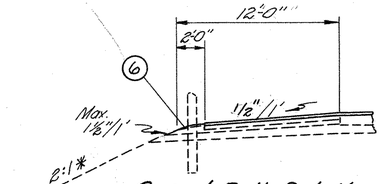
TYPICAL No. 1

Limiting Stations (Normal Crowned)

Sta. 314+45.55	to	Sta. 316+90.09	= Bridge Limits	Sta. 499+25.00	to	Sta. 636+23.00	= 13,698.00 Lin.Ft.
Sta. 316+90.09	to	Sta. 322+37.76	= 547.67 Lin.Ft.	Sta. 662+00.00	to	Sta. 704+00.00	= 4,200.00 Lin.Ft.
Sta. 322+37.76	to	Sta. 323+82.38	= Bridge Limits			Total	= 32,019.63 Lin.Ft.
Sta. 323+82.38	to	Sta. 375+75.00	= 5192.62 Lin.Ft.				
Sta. 398+95.00	to	Sta. 448+19.67	= 4924.67 Lin.Ft.				
Sta. 448+19.67	to	Sta. 449+93.33	= Bridge Limits.				
Sta. 449+93.33	to	Sta. 484+50.00	= 3456.67 Lin.Ft.				

Note: FHWA participation is only for ½" thickness of Item 403 on the berms. Additional material will be 100% State cost.

* Unless otherwise shown on cross-sections



Guard Rail Detail

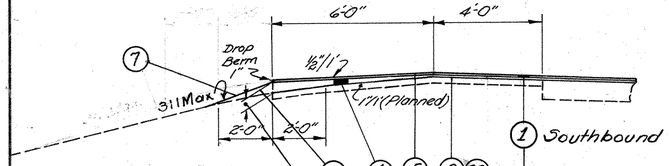
To be used where guard rail is called for on the plans.

TYPICAL No. 2

Limiting Stations (Superelevated)

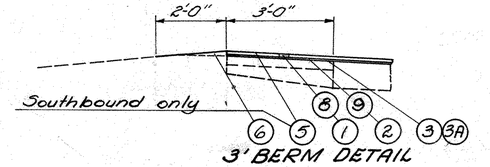
Sta. 375+75.00	to	Sta. 398+95.00	=	2320.00 Lin.Ft.
Sta. 484+50.00	to	Sta. 499+25.00	=	1475.00 Lin.Ft.
** Sta. 636+23.00	to	Sta. 664+49.88	=	2826.88 Lin.Ft.
Sta. 660+47.66	to	Sta. 662+00.00	=	152.34 Lin.Ft.
		Total	=	6774.22 Lin.Ft.

** Station Equation 664+49.88 Back = 660+47.66 Ahead

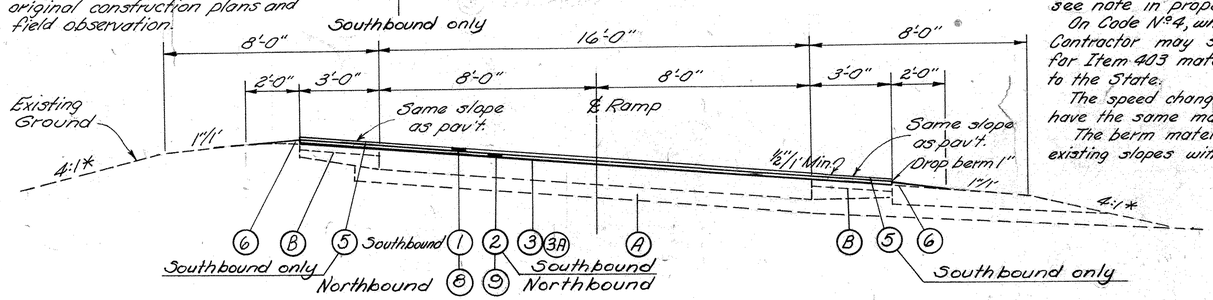


Item 403-Thickness of edge varies from 2½" min. to 9½" max. (ave. 5") as determined by original construction plans and field observation.

10' BERM DETAIL



3' BERM DETAIL



TYPICAL No. 3 (Ramps)

Type: 404

Notes:

For use of automatic paver control, see note in proposal.

On Code No. 4, where depths exceed 3" the Contractor may substitute Item 301 material for Item 403 material, at no additional cost to the State.

The speed change lanes and ramps shall have the same material as the main line

The berm material shall blend into the existing slopes with a max. of a 3:1 slope.

CODE

1	Item 404	1" Asphalt Concrete (60-70 or AC-20) (Southbound Lanes)
2	Item 403	½" Asphalt Concrete (60-70 or AC-20) (Southbound Lanes)
4	Item 403	½"-9½" Variable Asphalt Concrete (60-70 or AC-20)
3	Item 407	Tack Coat @ 0.1 Gal. per Sq. Yd.: 702.04, SS-1, SS-1H, MS-2, or RS-1; or 702.02, RC-70 or RC-250.
5	Item 409	Seal Coat Cover Aggregate #8 at the rate of 0.008 Cu. Yds. per Sq. Yd. on Seal Coat Bituminous Material, 707.02, MC-800 or MC-3000; 702.04, RS-1, RS-2, or CRS-2; or 702.03 CBAE 800, at 0.30 Gal. per Sq. Yd. (Southbound Lanes only)
6	Item 617	Compacted Aggregate, as per plan
7	Item 659	Seeding and Mulching (See General Note)
8	Item Special	3/4" Open Graded Plant Mixed Seal Coat (See note in proposal) NB. Lanes
9	Item 403	1½" Asphalt Concrete (60-70 or AC-20) Northbound Lanes
3A	Item 407	Cover Aggregate
E		Existing Pavement: Asphalt Concrete on Reinforced Concrete
A		Existing Pavement: Reinforced Concrete
B		Existing Berm: Bituminous Macadam on Crushed Aggregate.
C		Existing Berm: Crushed Aggregate
D		Existing 6" Pipe Underdrains

Rev. 7-5-74

TYPICAL SECTIONS RESURFACING

GENERAL NOTES

PUBLIC SAFETY

THE PERIOD OF TIME THAT ANY HAZARD IS LEFT UNPROTECTED BY GUARD RAIL, SHALL BE HELD TO AN ABSOLUTE MINIMUM, AND IN NO CASE LONGER THAN TWO WEEKS. HOWEVER, IN THE AREA WHERE THERE IS NO PROPOSED EMBANKMENT TO BE MADE, THE PROPOSED GUARD RAIL SHALL BE ERECTED WITHIN 36 HOURS AFTER REMOVAL OF THE EXISTING RAIL AND IN NO CASE SHALL THE GUARD RAIL BE REMOVED FROM 2:00 P.M. FRIDAY TO 6:00 A.M. MONDAY. WHERE THE REBUILDING OF ANY RUN OF GUARD RAIL OR BARRIER RAIL IS NOT ACCOMPLISHED WITHIN TWO WEEKS AFTER REMOVAL OF EXISTING GUARD RAIL OR BARRIER RAIL, THE CONTRACTOR WILL ERECT AND MAINTAIN ACCEPTABLE TEMPORARY RAILS IN THE INTERIM, AT NO ADDITIONAL COST TO THE STATE. ON THE TRAFFIC APPROACH END OF THE TEMPORARY RAIL THE END OF THE FIRST SECTION OF RAIL SHALL BE FASTENED TO ITS SUPPORT SO THAT THE BOTTOM OF THE RAIL IS AT THE PAVEMENT OR GROUND SURFACE.

GUARD RAIL, TYPE 5, AS PER PLAN

RAIL ELEMENTS SALVAGED UNDER 202 GUARD RAIL REMOVED FOR RE-USE OR STORAGE ON THIS PROJECT MAY BE USED IN LIEU OF FURNISHING NEW RAIL ELEMENTS FOR 606 GUARD RAIL, TYPE 5, AS PER PLAN OR 606 *GUARD RAIL, TYPE 5, BARRIER DESIGN, AS PER PLAN.* IF SALVAGED RAIL IS USED, IT MUST BE RENOVATED PRIOR TO INSTALLATION AND NEW SPLICE BOLTS FURNISHED.

PAINTED RAIL ELEMENTS SHALL BE DISMANTLED AND ALL PAINT, RUST, DIRT, AND OTHER FOREIGN MATERIAL DETRIMENTAL TO GALVANIZING SHALL BE REMOVED FROM RAILS BEFORE GALVANIZING. SLOTTED HOLES FOR INTERMEDIATE POST BOLTS SHALL BE PUNCHED WHERE REQUIRED FOR TYPE 5, INSTALLATIONS. THE RAIL SHALL THEN BE GALVANIZED IN ACCORDANCE WITH 710.06. PRIOR TO THE AWARD OF THE CONTRACT, THE SUCCESSFUL BIDDER WILL BE REQUIRED TO SUBMIT AN OUTLINE OF THE PLANT OPERATIONS FOR PERFORMING THE GALVANIZING, WHICH SHALL INCLUDE INFORMATION ON THE PLANT CAPACITY AND STORAGE FACILITIES FOR THE ARTICLES AS DELIVERED FOR GALVANIZING AND STORAGE FACILITIES FOR THE ARTICLES AFTER THE WORK IS COMPLETED. THIS OUTLINE, WHEN APPROVED BY THE DEPARTMENT, WILL BECOME A PART OF THE CONTRACT.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS IN ADVANCE OF GALVANIZING ANY LOT OF ARTICLES IN ORDER THAT ARRANGEMENTS MAY BE MADE TO HAVE THE DEPARTMENT INSPECTOR AT THE PLANT WHEN THE WORK IS IN PROGRESS. THE INSPECTOR SHALL HAVE FREE ENTRY, AT ALL TIMES WHILE WORK ON THE CONTRACT IS BEING PERFORMED, TO ALL PARTS OF THE PLANT THAT CONCERN THE CLEANING AND GALVANIZING OF THE ARTICLES. THE CONTRACTOR SHALL AFFORD THE INSPECTOR ALL REASONABLE FACILITIES WITHOUT CHARGE, TO SATISFY HIM THAT THE WORK IS BEING PERFORMED IN ACCORDANCE WITH THESE SPECIFICATIONS.

EXISTING GALVANIZED RAIL ELEMENTS SHALL BE CLEANED OF RUST, DIRT, OR OTHER FOREIGN MATERIALS. *INTERMEDIATE POST BOLT SLOTS (¾"x2½") SHALL BE* FIELD PUNCHED OR DRILLED. AREAS ON WHICH THE SPELTER COATING HAS BEEN DAMAGED AND INTERMEDIATE HOLES SHALL BE REGALVANIZED IN ACCORDANCE WITH AASHO M36-73 I SECTION 23 OR THEY MAY BE REPAIRED UNDER THE DIRECTION OF THE ENGINEER WITH STICK-FORM GALVANIZING REPAIR COMPOUND MEETING THE REQUIREMENTS OF FSSO-G-93.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR 606 GUARD RAIL, TYPE 5, AS PER PLAN OR 606 *GUARD RAIL, TYPE 5, BARRIER DESIGN* AS PER PLAN, *AND 517 BRIDGE RAILING, METAL DEEP BEAM, AS PER PLAN (BRIDE NO. AUG-75-0756, EXIST. ISR 75 OVER AUGLAIZE RIVER) THIS ITEM IS FOR THE ADDITION OF A RAIL ELEMENT JUST BELOW THE EXISTING BRIDGE RAILING.*

~~TRENCH WIDENING~~

~~TRENCH EXCAVATION FOR BASE WIDENING SHALL BE PERFORMED ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH TEMPORARY GUIDE MARKERS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND THE EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.~~

REMOVAL OF EXISTING PIPE

THE REMOVAL OF ALL EXISTING PIPE DRAINS WHICH WOULD NORMALLY BE REMOVED IN VARIOUS EXCAVATION ITEMS SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICES BID FOR THE RESPECTIVE EXCAVATION ITEMS, UNLESS OTHERWISE ITEMIZED IN THE PLANS.

LOCATIONS OF GUARDRAIL

THE LOCATIONS OF GUARDRAIL RUNS AS SHOWN IN THESE PLANS ARE SUBJECT TO ADJUSTMENT TO ASSURE THAT THE PLANNED INSTALLATIONS WILL AFFORD MAXIMUM PROTECTION FOR TRAFFIC.

CONNECTIONS TO EXISTING PIPE

WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED TO, OR TO CROSS EITHER OVER OR UNDER AN EXISTING SEWER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE BOTH AS TO LINE AND GRADE BEFORE HE STARTS TO LAY THE PROPOSED CONDUIT.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 603 CONDUIT ITEMS.

EARTHWORK TRANSITIONS

WHERE ADDITIONAL EARTHWORK IS BEING PLACED OVER PROPOSED PIPE EXTENSIONS OR FOR GUARDRAIL ELIMINATIONS, THESE TRANSITION LENGTHS BACK TO EXISTING SLOPES MAY BE ADJUSTED BY THE ENGINEER DURING CONSTRUCTION TO BLEND SAFELY AND ESTHETICLY WITH EXISTING SLOPES.

ITEM 202 PORTIONS OF STRUCTURES REMOVED

THE CONTRACTOR MAY, AT HIS OPTION REMOVE ENOUGH OF THE ENDWALL TO CONSTRUCT A MASONRY COLLAR IN LIEU OF COMPLETE ENDWALL REMOVAL WHEN SUCH REMOVAL IS CALLED FOR IN THE *PLANS. SEE DETAIL ON SHEET 20,* AT NO ADDITIONAL COST TO THE STATE

* incl. dowels

MAINTENANCE OF SEWER FLOWS

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS AS TO MAINTAIN AT ALL TIMES SEWER FLOWS THROUGH EXISTING FACILITIES TO REMAIN IN PLACE AND THROUGH EXISTING FACILITIES TO BE REPLACED UNTIL NEW FACILITIES ARE COMPLETED AND PLACED IN USE.

PAYMENT FOR ANY ADDITIONAL COSTS INVOLVED IN MAINTAINING THESE FLOWS BY PUMPING OR BY ANY OTHER MEANS APPROVED BY THE ENGINEER SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE RESPECTIVE ITEMS OF 603 CONDUIT.

PIPE ENDS

ALL CULVERTS, WHETHER TERMINATING IN HEADWALLS OR ENDWALLS, SHALL BEGIN AND END WITH PIPE ENDS AS NORMALLY FABRICATED BY THE MANUFACTURE. ENDS SHALL NOT BE CUT TO FIT EITHER SKEW OR SLOPE. IF FIELD CUTTING IS FOUND TO BE NECESSARY TO FIT AN EXACT LENGTH CONTROL, THE CUT END SHALL BE LOCATED AT AN INTERIOR JOINT. CRADLE, COLLAR OR BAND SHALL BE PROVIDED TO ASSURE A STABLE JOINT. PAYMENT FOR THE JOINT SHALL BE INCLUDED IN THE PRICE BID FOR THE PERTINENT 603 CONDUIT ITEM.

EROSION CONTROL

ITEM 601 AND 660 ARE PROVIDED IN THESE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE WILL NOT BE REMOVED IN ORDER TO PLACE ANY OF THESE ITEMS. THE ENGINEER MAY CHECK AND NON-PERFORM ANY QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES FOR THESE ITEMS WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION.

SEEDING

QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN THE WORK LIMITS AS SHOWN ON THE CROSS SECTIONS.

ROUNDING OF CORNERS SHOWN ON THE CROSS SECTIONS

FOUR FOOT (4') ROUNDING OF CORNERS AT ALL BREAK POINTS ON EARTH SLOPES SHALL APPLY TO ALL CROSS SECTIONS EVEN THOUGH OTHERWISE SHOWN IN THESE PLANS.

MATERIAL AND EQUIPMENT STORAGE

NO MATERIALS, EQUIPMENT OR PRIVATE *VEHICLES* OR PARKED SHALL BE STORED WITHIN THE MEDIAN OR WITHIN THIRTY FEET (30') OF THE OUTSIDE EDGE OF THE EXISTING PAVEMENT OF IR-75 THE FIELD OFFICES AND THE CONTRACTORS MAIN STORAGE AREAS SHALL NOT BE LOCATED WITHIN THE LIMITED ACCESS (L/A) FENCE.

ROCK CHANNEL PROTECTION

IT IS NOT NECESSARY TO REMOVE ANY EXISTING ROCK DITCH PROTECTION TO PLACE PROPOSED ROCK CHANNEL PROTECTION. PLACE THE PROPOSED ROCK CHANNEL PROTECTION OVER ANY EXISTING ROCK DITCH PROTECTION OR IN PROPOSED DITCHES SO THAT A TOTAL MINIMUM DEPTH OF 18" IS OBTAINED AS DIRECTED BY THE ENGINEER.

EXCAVATION
ITEM 203 EXCAVATION SHOULD BE CONSTRUED TO BE EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION THROUGHOUT THIS PLAN UNLESS SPECIFICALLY NOTED OTHERWISE

GENERAL NOTES

GENERAL NOTES

AUGLAIZE COUNTY
AUG 75-4.97

8
191

BERM CONSTRUCTION

THE CONTRACTOR SHALL PROVIDE A SHIELD TO PREVENT THE SPRAYING OR DRIFTING OF LIQUID BITUMINOUS MATERIAL ONTO THE EDGE OF THE PAVEMENT OR EDGELINES. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO 107.12 OF THE SPECIFICATIONS.

EMBANKMENT REQUIREMENTS

ADDITIONAL EMBANKMENT MATERIALS REQUIRED TO CONSTRUCT FILLS AS INDICATED IN THE PLANS, MAY BE OBTAINED OFF THE PROJECT. IF THE CONTRACTOR ELECTS, HE MAY SUBMIT A SPECIFIC PLAN AND IF APPROVED BY THE ENGINEER, FLATTEN BACKSLOPES WITHIN THE EXISTING R/W, PROVIDING THAT THESE REGRADED SLOPES ARE SHAPED AND RESEEDED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE STATE OF OHIO FOR EITHER EXCAVATION, SHAPING, OR RESEEDING.

~~EARTHWORK~~

~~EMBANKMENT OR EXCAVATION SHALL BE CONSTRUCTED AS PER TYPICAL SECTION UNLESS SUPERCEDED BY CROSS SECTIONS INCLUDED IN THESE PLANS. AN ESTIMATED QUANTITY FOR EARTHWORK HAS BEEN INCLUDED IN THESE PLANS AND THESE PLAN QUANTITIES SHALL ALSO BE THE FINAL PAY QUANTITIES REGARDLESS OF ACTUAL YARDAGE MOVED BY THE CONTRACTO.~~

FIELD OFFICE

THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE HAVING A MINIMUM OF 300 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.

ESTIMATED QUANTITIES

SPECIFIC LOCATIONS AND USAGE OF ESTIMATED QUANTITIES SET UP ON THIS PLAN TO BE USED "AS DIRECTED BY THE ENGINEER" SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT. ESTIMATED QUANTITIES OF MATERIALS SHALL NOT BE ORDERED FOR DELIVERY TO THE PROJECT UNLESS AUTHORIZED BY THE ENGINEER.

MAINTAINING TRAFFIC

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED FOR THE MAINTENANCE OF TRAFFIC AS DIRECTED BY THE ENGINEER:

ITEM 410	TRAFFIC COMPACTED SURFACE TYPE "A" OR "B"	650 CU.YD.
ITEM 616	CALCIUM CHLORIDE	13 TONS
ITEM 404	ASPHALT CONCRETE OR AN APPROVED BITUMINOUS PREMIXED SURFACE COURSE FOR MAINTAINING TRAFFIC.	200 CU.YD.

UNDERDRAIN OUTLETS

THE EXISTING 8" UNDERDRAIN OUTLETS SHALL BE CONNECTED TO THE PROPOSED 8" CONDUIT, TYPE "F" WITH CORRUGATED METAL CONNECTING BANDS. THE COST OF THESE BANDS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE NEW CONDUIT.

~~CONSTRUCTION LAYOUT STAKE~~

~~SEE NOTE IN PROPOSAL DESCRIBING THE WORK INCLUDED IN THIS LUMP SUM PAY ITEM.~~

ITEM SPECIAL: BRIDGE DECK SURFACE REPAIR; *100% STATE COST*

SEE NOTE IN PROPOSAL

THIS ITEM SHALL CONSIST OF REPAIRING DETERIORATED CONCRETE BRIDGE DECK SURFACES PRIOR TO APPLICATION OF BRIDGE DECK WATERPROOFING IN ACCORDANCE WITH THE PROPOSAL NOTE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THESE PLANS TO BE USED IF AND AS DIRECTED BY THE ENGINEER.

ITEM SPECIAL

* SQ.FT. - BRIDGE DECK SURFACE REPAIR MORE THAN ONE INCH IN DEPTH
* SQ.FT. - BRIDGE DECK SURFACE REPAIR ONE INCH OR LESS IN DEPTH

* SEE SHEET No. 20-A FOR QUANTITIES

~~MEASUREMENT OF ZONE MARKINGS~~

~~IN LIEU OF THE METHOD OF MEASUREMENTS FOR CHANNELIZING LINES, CURBS, AND ISLANDS MARKING AND BROAD TRANSVERSE STRIPES AS CALLED FOR IN ITEM 621.16, *AS PER PLAN. THE ABOVE ITEMS SHALL BE PAID ON A LUMP SUM BASIS.* ALL OTHER PROVISIONS ON ITEM 621 SHALL APPLY, EXCEPT THE STATEMENT IN ITEM 621.05, "APPLICATION" WHICH STATES "PAINT SHALL NOT BE APPLIED TO ANY PAVEMENT OR OTHER SURFACE SOONER THAN TWO WEEKS FOLLOWING ITS COMPLETION."~~

ITEM SPECIAL: BRIDGE DECK WATERPROOFING *N.B. LANES NORMAL PARTICIPATION S.B. LANES 100% STATE COST*

ALL BRIDGES WITHIN THE LIMITS OF RESURFACING SHALL BE WATERPROOFED PRIOR TO RESURFACING IN ACCORDANCE WITH THE PROPOSAL NOTE.

ITEM 403 LEVELING MATERIAL (100% STATE COST)

ITEM 403 ASPHALT CONCRETE IS PROVIDED FOR USE AS DIRECTED BY THE ENGINEER, AT THE RATE OF 75 CU. YDS. PER MILE OF 24 FOOT WIDE PAVEMENT, INCLUDING BERMS, TO CORRECT MINOR DEPRESSIONS AND CORRECTION OF PAVEMENT CROWN. A TOTAL OF 1095 CU. YDS. OF ITEM 403 CARRIED TO THE GENERAL SUMMARY.

WATER POLLUTION, SOIL EROSION, AND SILTATION CONTROL

WHERE EROSION IS LIKELY TO BE A PROBLEM, THE ENGINEER WILL LIMIT THE AREA OF EXCAVATION AND EMBANKMENT OPERATIONS IN PROGRESS COMMENSURATE WITH CONTRACTORS CAPABILITY AND PROGRESS IN KEEPING THE FINISH GRADING, MULCHING, SEEDING, AND OTHERS SUCH PERMANENT CONTROL MEASURES CURRENT IN ACCORDANCE WITH THE ACCEPTED SCHEDULE--SHOULD SEASONAL LIMITATIONS MAKE SUCH COORDINATION UNREALISTIC TEMPORARY EROSION CONTROL MEASURES SHALL BE TAKEN IMMEDIATELY AS DIRECTED BY THE ENGINEER TO THE EXTENT FEASIBLE AND JUSTIFIED. COST OF ALL THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR 203 EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION.

UNDERDRAIN OUTLET

AN ESTIMATED QUANTITY OF *ITEM 603-8" CONDUIT TYPE "F" HAS BEEN* INCLUDED IN THESE PLANS TO BE USED IF AND AS DIRECTED BY THE ENGINEER, TO OUTLET PIPE UNDERDRAIN WHICH MIGHT NOT HAVE BEEN IN PLAN DETAILS. 8"CONDUIT,TYPE "F" *150* LIN.FT.

ITEM 617 COMPACTED AGGREGATE; AS PER PLAN

THE AGGREGATE SHALL BE CRUSHED LIMESTONE AND SHALL MEET THE REQUIREMENTS OF 617.03. IT SHALL ALSO MEET THE FOLLOWING GRADING REQUIREMENTS:

SIEVE SIZE	TOTAL PERCENT PASSING
1"	100%
No. 4	25-60%
No. 40	7-30%
No. 200	0-15%

GUARD RAIL AND BARRIER RAIL REMOVED

GUARD RAIL AND BARRIER RAIL DESIGNATED FOR REMOVAL ON THIS PROJECT SHALL BE CAREFULLY DISMANTLED AND THE RAIL ELEMENTS STORED FOR EITHER RE-USE ELSEWHERE ON THE PROJECT OR REMOVAL BY STATE FORCES. ALL POSTS, BLOCKS, AND BOLTS, AND MISCELLANEOUS HARDWARE SHALL BE DISPOSED OF BY THE CONTRACTOR. ALL POST HOLES SHALL BE CAREFULLY FILLED AND TAMPED AND THE SITE CLEANED AND RESTORED.

THE RESTORATION WILL INCLUDE GRADING OF THE SHOULDER IN THE AREA OF THE GUARD RAIL REMOVAL TO PROVIDE PROPER DRAINAGE AND TRAVERSABLE SHOULDER SLOPES WHERE TRAFFIC OR WEATHER MAY HAVE BUILT A RIDGE OF EARTH AND DEBRIS UNDER THE GUARD RAIL. THE GRADED OR DISTURBED AREA SHALL BE RESEEDED, *EXCEPT (Contd. below)*

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID FOR 202 GUARD RAIL REMOVED FOR RE-USE OR STORAGE OR 202 BARRIER RAIL REMOVE FOR RE-USE OR STORAGE, MEASURED BY THE LINEAR FOOT CENTER TO CENTER OF TERMINAL POSTS OR CENTER OF BRIDGE CONNECTION SPLICES.

WHERE NEW GUARD RAIL IS TO BE CONSTRUCTED, AN AREA UNDER THE NEW GUARD RAIL 3' WIDE, MEASURED FROM ONE FOOT IN FRONT OF THE RAIL (OR CENTERED UNDER GUARD RAIL, BARRIER DESIGN) SHALL NOT BE SEEDED

NOTES CONT'D ON SHEET 6A

GENERAL NOTES

TRAFFIC MAINTENANCE NOTES

IN ADDITION TO THE REQUIREMENTS FOR MAINTAINING TRAFFIC AS INDICATED IN THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL FOR STREETS AND HIGHWAYS," CURRENT EDITION, LATESTS REVISION, AND PERTINENT ITEMS OF THE SPECIFICATIONS, THE FOLLOWING REQUIREMENTS SHALL APPLY:

ONE LANE OF DIRECTIONAL TRAFFIC WILL ONLY BE PERMITTED FOR THE FOLLOWING OPERATIONS: PAVEMENT REMOVAL, BASE REPLACEMENT, *BRIDGE DECK REPAIR AND WATERPROOFING, AND ACTUAL RESURFACE OPERATIONS BETWEEN THE HOURS OF SUNRISE AND SUNSET, TRAFFIC SHALL NOT BE CROSSED OVER THE MEDIAN AT ANY TIME.*

THE CONTRACTOR SHALL SUBMIT IN WRITING A SCHEDULE OF OPERATIONS TO THE DIRECTOR OF HIGHWAY AND RECEIVE APPROVAL BEFORE WORK IS STARTED ON THE PROJECT.

NO WORK ON IR *75* PAVEMENTS, *RAMPS, OR BERMS SHALL BE PERFORMED BY THE CONTRACTOR FROM 2:00 P.M. FRIDAY, TO 6:00 A.M. MONDAY. NO WORK ON I-75 PAVEMENTS OR RAMPS SHALL BE PERFORMED BY THE CONTRACTOR 24 HRS. PRECEDING OR SUCCEEDING AND INCLUDING A NATIONAL HOLIDAY NO WORK ON I-75 PAVEMENTS, RAMPS, OR BERMS SHALL BE PERFORMED BETWEEN THE HOURS OF SUNSET AND SUNRISE. DURING THE ABOVE "NO WORK PERIOD" UNINTERRUPTED TWO-LANE TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED.*

THE CONTRACTOR SHALL FURNISH AND PLACE REFLECTORIZED *CONES* 50'C/C ON CENTERLINE PAVEMENTS IN WORK AREAS WHERE AND ONLY DURING THE TIME ONE-LANE TRAFFIC IS BEING MAINTAINED, UNLESS OTHERWISE SHOWN IN PLANS OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL REQUIRE A WORKMAN TO PATROL AND MAINTAIN REFLECTORIZED *CONES* AT ALL TIMES DURING PERIODS WHEN TRAFFIC IS BEING MAINTAINED ALONG SAID *CONES* AS DIRECTED BY THE ENGINEER.

Spotting (6"x18" spots) shall Consist of Reflective white paint or 6" Circular White OR 6"x6" SQUARE REFLECTIVE PRESSURE SENSITIVE PAVEMENT MARKING TAPE AS MANUFACTURED BY 3M COMPANY AND SHALL NOT BE LESS THAN 9 MILS NOR MORE THAN 16 MILS AND SHALL BE READILY VISIBLE WHEN VIEWED WITH AUTOMOBILE HEADLIGHTS AT NIGHT AND PLACED AT MAXIMUM 40-FOOT INTERVALS, FIVE (5) INCHES LEFT OF CENTERLINE OF PAVEMENT AND SHALL BE PLACED ON THE INITIAL PASS OF EACH COURSE OF ASPHALT CONCRETE OF MAINLINE PAVEMENT BEFORE THE END OF EACH WORKING DAY. COST OF THE ABOVE TO BE INCLUDED IN THE ITEM 614 MAINTAINING TRAFFIC. TEMPORARY MARKERS ON THE LEVELING COURSE MAY BE EITHER 5" LEFT OR RIGHT OF CENTERLINE (CL).

THERE SHALL NOT BE AT ANY TIME MORE THAN ONE PROPOSED COURSE *(1½") ON EXISTING* PAVEMENT OR BERMS BEFORE ADJACENT COURSES ARE PLACED.

AS SOON AS FINAL RESURFACING IS COMPLETE ON ONE PAIR OF DIRECTIONAL LANES, LANE-LINE AND EDGE-LINE MARRING MUST BE COMPLETE PRIOR TO MOVING TO THE OPPOSITE PAIR OF DIRECTIONAL LANES.

AT EACH RAMP, THERE SHALL BE AN AREA OF 175 PLUS OR MINUS FEET IN LENGTH IN THE OUTSIDE DIRECTIONAL LANE WHICH SHALL BE RESURFACED AT THE SAME TIME THE MEDIAN DIRECTIONAL LANE OR SHALL BE OMITTED DURING THE TIME THE OUTSIDE DIRECTIONAL LANE IS BEING RESURFACED TO MAINTAIN ACCESS TO AND FROM RAMPS AT INTERCHANGES. THESE AREAS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROVIDE SAFE FLOW OF TRAFFIC ENTERING AND LEAVING WHILE THE OUTSIDE DIRECTIONAL LANE IS BEING RESURFACED. THE SPEED CHANGE LANES ADJACENT TO THE 175 FEET AREA SHALL BE USED TO PROVIDE ONE-LANE TRAFFIC WHILE THE MEDIAN LANE IS BEING RESURFACED.

RAMPS MAY BE CLOSED TO TRAFFIC ONLY WHEN ACTUAL RESURFACING OPERATIONS ARE IN EFFECT *AND REOPENED AT NIGHT.*

IF THE CONTRACTOR SO ELECTS, HE MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC PROVIDED THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATE PLAN SHALL BE PLACED INTO EFFECT UNTIL APPROVAL HAS BEEN GRANTED, IN WRITING, BY THE DIRECTOR.

IN LIEU OF THE PROVISIONS OF THE SECOND PARAGRAPH OF SUB-PARAGRAPH (C) ITEM 614.03 THE FOLLOWING PROVISIONS SHALL APPLY TO THE PROJECT:

1. ~~THE ERECTION AND REMOVAL OF REGULATORY SIGNS PERTAINING TO CONSTRUCTION OPERATIONS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" OR AS DIRECTED BY THE ENGINEER.~~

2. EXISTING SPEED LIMIT SIGNS SHALL BE COVERED WHEN THE SIGNS FACE A SINGLE DIRECTIONAL LANE OF TRAFFIC, OR WITHIN WORK LIMITS.

3. ALL BARRICADES, *CONES*, MARKERS, SIGNS, ETC., REQUIRED FOR THE MAINTENANCE OF TRAFFIC THROUGHOUT THE PROJECT SHALL BE FURNISHED, ERECTED, AND MAINTAINED IN A CLEAR LEGIBLE AND GOOD WORKING CONDITION, AT ALL TIMES AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR.

PAYMENT FOR PROVIDING, ERECTING, COVERING, MAINTAINING, AND REMOVING BARRICADES, *CONES*, MARKERS, AND OTHER TRAFFIC CONTROL DEVICES, FURNISH STATE HIGHWAY PATROLMEN AS SPECIFIED, AS WELL AS OTHER REQUIREMENTS LISTED ABOVE SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC.

AUGLAIZE COUNTY
AUG-75-4.97

RESTRICTED SPEED ZONES

THE STATE MAY AT ITS DISCRETION JOURNALIZE SPEED ZONES WHERE CONSTRUCTION OPERATIONS HAVE CHANGED ROAD CONDITIONS, SUCH AS, REDUCED NUMBER OF LANES, REDUCED LANE WIDTH, OPEN TRENCHES, TEMPORARY ROADWAYS, ETC. WHERE JOURNALIZED SPEED ZONES ARE USED, ALL EXISTING PRIMA FACIE SPEED LIMIT SIGNS WITHIN THE ZONE SHALL BE COVERED. THE PRIMA FACIE SPEED LIMIT SHOULD NOT BE ALTERED UNLESS THE CHANGED ROAD CONDITIONS ARE EXPECTED TO EXIST FOR EXTENDED PERIODS OF TIME. DURING SHORT PERIODS OF HAZARD ADEQUATE WARNING SIGNS WITH ADVISORY SPEED SIGNS, AND FLAGMAN SHALL BE UTILIZED IN ACCORDANCE WITH THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AS DIRECTED BY THE ENGINEER. PRIOR TO USING SUCH TRAFFIC CONTROL DEVICES A TRAFFIC CONTROL PLAN SHALL BE APPROVED BY THE DISTRICT TRAFFIC ENGINEER IN WRITING. THE MINIMUM LENGTH FOR EITHER JOURNALIZED OR ADVISORY SPEED ZONES SHALL BE 1/2 MILE. ALL SIGNS USED WITHIN THE CONSTRUCTION AREA SHALL BE FURNISHED AND PLACED BY THE CONTRACTOR

ANY SIGNING REQUIRED BEYOND THE CONTRACT LIMITS SHALL BE FURNISHED AND PLACED BY THE DEPARTMENT OF TRANSPORTATION. THE COST OF ALL THE ABOVE SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614, MAINTAINING TRAFFIC.

MEDIAN CONSTRUCTION EQUIPMENT CROSSING

CONSTRUCTION EQUIPMENT SHALL CROSS THE MEDIAN ONLY AT THE EXISTING AND PROPOSED U-TURN CROSSOVERS AND AT OTHER ADDITIONAL DESIGNATED LOCATIONS AS DIRECTED BY THE ENGINEER. THE TOTAL NUMBER OF EQUIPMENT CROSSINGS SHALL BE LIMITED TO ONE (1) PER MILE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF THE ADDITIONAL EQUIPMENT CROSSINGS TO A CONDITION AT LEAST EQUAL TO THAT EXISTING PRIOR TO WORK OPERATIONS. ALL RESTORATION WORK SHALL BE DONE IN ACCORDANCE TO THE PERTINENT SPECIFICATION ITEMS AND AS DIRECTED BY THE ENGINEER.

WHEN MEDIAN CROSSOVERS ARE USED BY CONSTRUCTION EQUIPMENT, THESE CROSSOVERS SHALL BE TREATED AS A WORK AREA ON BOTH NORTHBOUND AND SOUTHBOUND LANES AT EACH LOCATION, AND TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE DRAWING ON SHEET NO. 10.

WHEN THE MEDIAN CROSSOVERS ARE BEING USED IN THE AREA OF ONE LANE TRAFFIC OPERATION, THE CONTRACTOR SHALL PROVIDE THE SERVICES OF A SPECIAL DUTY HIGHWAY PATROLMAN TO CONTROL TRAFFIC FLOW. THE COST OF ALL OF THE ABOVE SHALL BE INCLUDED UNDER ITEM 614.

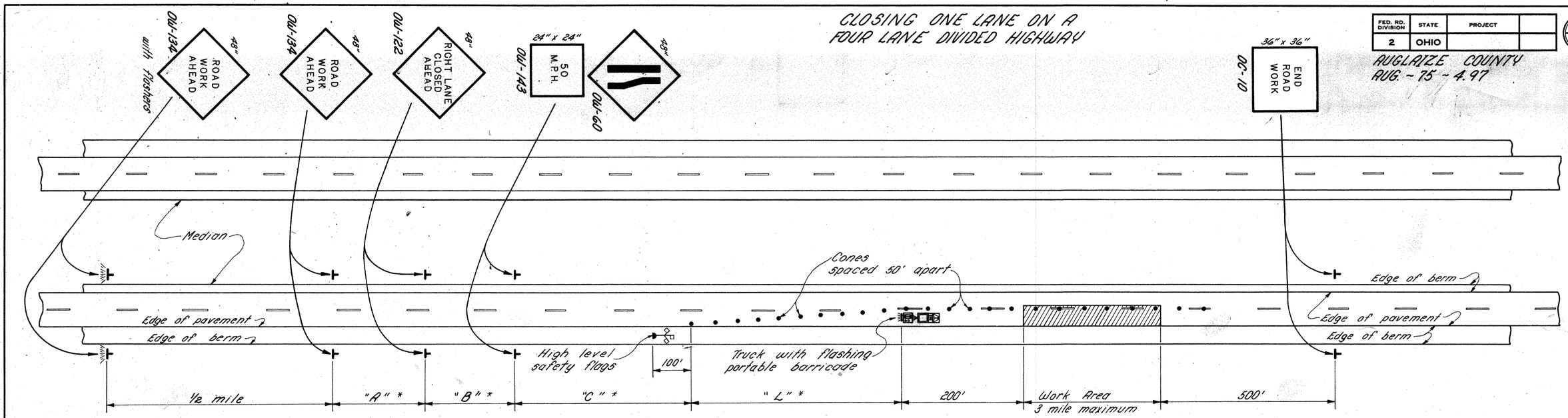
TRAFFIC MAINTENANCE NOTES

CLOSING ONE LANE ON A FOUR LANE DIVIDED HIGHWAY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

10
191

AUGLAIZE COUNTY
AUG. - 75 - 4.97



NOTES

1. Traffic control shall be as required in the proposal and as described below.
2. One lane traffic in each direction shall be maintained at all times and the Contractor shall arrange his operations so as to prevent any interference to the continous flow of traffic in the areas
3. One lane traffic shall be controlled with temporary traffic control devices arranged as indicated.
4. Before traffic is returned to this closed portion of pavement, a temporary 40# Asphalt Concrete surface wedge course two (2) feet wide shall be provided in the event the new pavement is more than 12" inches above the existing berm.
5. All signs that are to convey their messages during the hours of darkness shall be reflectorized or illuminated. All signs shall be post mounted, unless otherwise directed by the Engineer.
6. The contractor shall arrange traffic control devices so that all interchange ramps are open to traffic at all times as directed by the Engineer.
7. Lane Taper - Cones shall be used for lane taper and shall be supplemented by:
   A.) Yellow delineators or yellow lights
8. Center Line - The Contractor shall use cones
9. When work is being preformed in the lane adjacent to the median on a divided highway, "Left lane closed" signs shall be substituted for "right lane closed" signs.
10. All traffic control devices shall be kept in proper position, clean, legible and in good working condition at all times.
11. All vehicles, equipment, men and their activities are restricted at all times to one side of the pavement unless otherwise authorized by the Engineer.

~~12. The Contractor shall provide the services of one (1) special duty State Highway Patrolman for the exclusive purpose of controlling one lane through traffic for each one way traffic zone, except that a patrolman will not be required in the area of pavement removal and replacement when the Contractor is not performing work. Information regarding arrangements and payments by the Contractor for special duty patrol services may be obtained by contacting Ohio Highway Patrol, 660 East Main Street, Columbus, Ohio Telephone (614)-469-2660.~~

13. Payment for providing, erecting, maintaining and removing signs, barricades, cones, markers and etc., shall be included in the lump sum bid for Item 614 Maintaining Traffic.

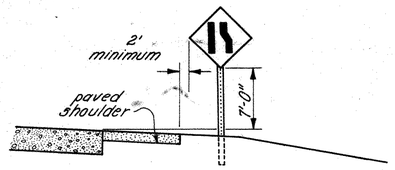
14. The Contractor shall provide the services of one (1) special duty State Highway Patrolman with patrol car for the exclusive purpose of controlling through traffic in each of the following situations
   (a.) Placing or removing pavement which requires men and/or equipment to occupy one or more through lanes.
   (b.) Erection or removal of overhead sign support spans and/or work on overhead signs that are in place over the pavement.
   (c.) Erection of structural steel and/or structural work over the pavement.

Information regarding arrangements and payments by the Contractor for the Special Duty Patrol services may be obtained by contacting Ohio Highway Patrol, 660 East Main Street, Columbus, Ohio, Telephone 614-469-2300.

If, after contacting the Ohio Highway Patrol, Columbus, Ohio, it is determined that they cannot supply the special duty patrolman, then an authorized Municipal or County police officer equipped with a marked and flasher-light equipped official police or patrol car shall be provided.

Temporary closures of all lanes may be required in (b) and (c) above, these closures shall be held to a maximum of fifteen (15) minutes at any one time and any succeeding closure shall not begin until the traffic has been cleared from the previous closure. The patrolman required for the closures of all lanes shall constantly move with the backup of traffic so that he is always in a position on the shoulder near the end of the line of traffic stopped for the closure.

DISTANCE *	A	B	C	L
Urban	200'	200'	200'	425'
Standard	500'	500'	500'	600'
Expressway	2600'	1600'	1000'	840'



TYPICAL SIGN PLACEMENT

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

11/191

AUGLAIZE COUNTY
AUG. - 75 - 4.97

FLASHING PORTABLE BARRICADE

FLASHING PORTABLE BARRICADE

This item of work shall consist of providing, operating, maintaining and subsequently removing a flashing portable barricade as herein described:

The barricade shall consist of the following components:

A. Flasher board with lamps.
B. Flasher control and dimmer.
C. Power supply.
D. Trailer and framework.

COMPONENT SPECIFICATIONS

A. Flasher board with lamps

The flasher board shall be a minimum size of eight feet (8') wide by four feet (4') high and shall be constructed of exterior plywood, aluminum or similar weather resistant material. The board shall be painted with a flat black weather-proof paint.

Fifteen hooded flasher lenses shall be mounted into the board with the pattern and approximate dimensions shown in Diagram "A". Hoods shall be at least five (5") inches long. Flashers shall be sealed beam units with amber lenses and a nominal input of approximately 35 watts.

B. Flasher control and dimmer

The flasher control shall be designed to provide the following seperate displays on the message board and each display shall be composed of the reference numbered flasher units as tabulated and shown on Diagram "A":

(1). LEFT ARROW - Consisting of flasher units Nº's. 1, 3, 4, 5, 6, 7, 8, 9, 10, 11.

(2). RIGHT ARROW - Consisting of flasher units Nº's. 1, 2, 3, 4, 5, 7, 12, 13, 14, 15.

(3). DOUBLE ARROW - Consisting of flasher units Nº's. 1, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15.

(4). BAR - Consisting of flasher units Nº's. 1, 3, 4, 5, 7.

The above displays shall be seperately selectable by switchs, and when selected shall flash with approximately 50% on time and 50% off time. As an alternate, a sequential flashing display may be provided which will illuminate the tail of the arrow(s) first, and progress to the head of the arrow(s). The rate of flashing shall be approximately 30 cycles per minute.

All flasher lamps shall be illuminated to a uniform intensity and this intensity shall be variable by means of a photocell controlled dimmer circuit which shall reduce lamp output during low ambient light conditions. Both the photocell circuit and the dimmer circuit shall be externally adjustable.

All controls and switches shall be housed in a locked weather-proof cabinet.

C. Power supply

The power supply shall consist of a generator and a 4 cycle gasoline engine designed for heavy continous duty. The engine generator set shall be of adequate capacity to supply electrical energy to all flasher units, to the control circuitry, and to charge a storage battery.

The engine shall be of modern design to provide low emission of pollutants, shall be muffled in order that it will not produce excessive noise and shall be weather-proof. It shall be provided with an electric starter operated from a storage battery and with a fuel tank of sufficient size to provide un-attended operation for a minimum of 24 hours.

The generator shall be weather-proof and quiet in operation.

The engine - generator set shall be enclosed in a lockable mesh enclosure to prevent accidental or malicious tampering and to reduce the hazard of moving parts, shocks, or burns. The fuel tank shall have a lockable cap.

D. Trailer and framework

The foregoing components shall be mounted on a trailer of adequate capacity to support the components and to resist a wind load of 25 P.S.F. The trailer shall have warning devices in conformance with the "Ohio Revised Code" as applicable to use on highways within the State of Ohio. The trailer shall be equipped with leveling jacks to provide stable support of the components when the trailer is not hitched to a vehicle. The entire configuration shall, by itself, be stable in winds exerting a force up to 20 P.S.F. in any direction.

The framework shall provide secure mounting for all components and the flasher board shall be located in a vertical position at a minimum distance of ten (10') feet from the ground line to centerline of arrow during operation. The flasher board shall fold flat for storage or trailering. The unit shall be so designed to permit one (1) man to raise and lower the flasher board.

GENERAL REQUIREMENTS

The entire barricade shall be designed for operation in extremes of humidity (up to 100%) and temperature (from -30° to +120°). The barricade shall present no hazards of moving parts, electrical shock, fire, burns or sharp edges.

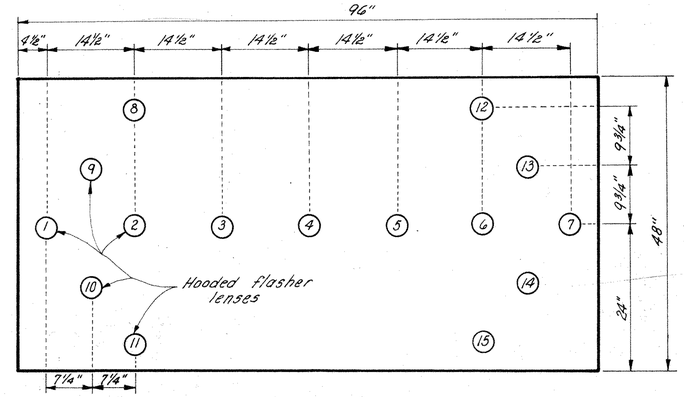
USE AND OPERATION

The barricades shall be located as shown in the traffic maintenance notes or as directed by the Engineer and operated continuously during traffic maintained periods. The contractor shall supply all fuel, lubricants, and all parts necessary to obtain continuous operation and shall provide all service. The contractor shall arrange, with the Engineer, an acceptable method of obtaining service for a malfunctioning barricade within thirty (30) minutes of reported malfunction. In the event that service to the malfunctioning unit is not provided within the allotted time, the State may elect to perform the necessary service and bill the Contractor for the cost of parts, commodities, equipment rental and labor required to repair the barricade and/or to provide temporary protection for traffic.

When not in use, the barricade shall be stored at a location which will not be hazardous to traffic or pedestrians.

At the completion of the project, the barricade, shall be removed and disposed of by the Contractor.

Payment for this item "Flashing portable barricade" will be included in the "Lump Sum" price bid for Item 614, Maintaining Traffic, including maintenance and operation as required, and removal which shall include all labor, equipment, fuels, oils and parts required to obtain the specified operation.



FLASHER BOARD
DIAGRAM "A"

ITEM SPECIAL - OPEN GRADED PLANT MIX SEAL COAT

From Typical Section No. 1 = 32019.63 Lin. Ft.
32019.63 x 24 x 0.0625 ÷ 27 = 1778.87 CU. YD.
From Typical Section No. 2 = 6774.22 Lin. Ft.
6774.22 x 24 x 0.0625 ÷ 27 = 376.35 CU. YD.
From Ramps = 17147 SQ. YDS. From Project AUG-25-5.05
17147 x 9 x 0.0625 ÷ 27 = 357.23 CU. YD.

BERMS
From Typical Section No. 1 = 32019.63 Lin. Ft.
32019.63 x 13 x 0.0625 ÷ 27 = 963.55 CU. YD.
From Typical Section No. 2 = 6774.22 Lin. Ft.
6774.22 x 13 x 0.0625 ÷ 27 = 203.85 CU. YD.
From Ramps = 3521 SQ. YDS.
3521 x 9 x 0.0625 ÷ 27 = 73.35 CU. YD.
Deduct for Interchange Ramp Areas = 4729 SQ. YD.
4729 x 9 x 0.0625 ÷ 27 = -98.52 CU. YD.

TOTAL ITEM SPECIAL, TO GENERAL SUMMARY 3655 CU. YDS.

NORMAL PART.	100% STATE
3655	

ITEM 404 ASPHALTIC CONCRETE (60-70 or AC-20) 100% STATE*

From Typical Section No. 1 = 32019.63 Lin. Ft.
32019.63 x 24 x 0.0833 ÷ 27 = 2370.88 CU. YD.
From Typical Section No. 2 = 6774.22 Lin. Ft.
6774.22 x 24 x 0.0833 ÷ 27 = 501.59 CU. YD.
From Ramps = 16054 SQ. YDS. From Project AUG-25-5.05
16054 x 9 x 0.0833 ÷ 27 = 445.77 CU. YD.

BERMS
From Typical Section No. 1 = 32019.63 Lin. Ft.
32019.63 x 13 x 0.0833 ÷ 27 = 1284.22 CU. YD.
From Typical Section No. 2 = 6774.22 Lin. Ft.
6774.22 x 13 x 0.0833 ÷ 27 = 271.70 CU. YD.
From Ramps = 4393 SQ. YDS.
4393 x 9 x 0.0833 ÷ 27 = 121.98 CU. YD.
Deduct for Interchange Ramp Areas = 5089 SQ. YDS.
5089 x 9 x 0.0833 ÷ 27 = -141.30 CU. YD.

TOTAL ITEM 404, TO GENERAL SUMMARY 4855 CU. YDS.

NORMAL PART.	100% STATE
4855	

ITEM 403 ASPHALT CONCRETE (60-70 or AC-20)

From Typical Section No. 1 = 32019.63 Lin. Ft.
*32019.63 x 24 x 0.0417 ÷ 27 =
32019.62 x 24 x 0.0417 ÷ 27 =
From Typical Section No. 2 = 6774.22 Lin. Ft.
*6774.22 x 24 x 0.0417 ÷ 27 =
6774.22 x 24 x 0.0417 ÷ 27 =

NORMAL PART.	100% STATE
1186.86	
251.10	

From Typical Section No. 1 = 32019.63 Lin. Ft.
*32019.63 x (10x2) x (0.3750 ÷ 2) ÷ 27 =
*32019.63 x 10 x 0.0417 ÷ 27 =
32019.63 x 10 x 0.0417 ÷ 27 =
*32019.63 x (3x2) x (0.1250 ÷ 2) ÷ 27 =
*32019.63 x 3 x 0.0417 ÷ 27 =
32019.63 x 3 x 0.0417 ÷ 27 =
From Typical Section No. 2 = 6774.22 Lin. Ft.
*6774.22 x 3 x (0.1250 ÷ 2) ÷ 27 =
*6774.22 x 3 x 0.0417 ÷ 27 =
6774.22 x 3 x 0.0417 ÷ 27 =
*6774.22 x 4 x 0.0417 ÷ 27 =
*6774.22 x 6 x (0.3750 ÷ 2) ÷ 27 =
*6774.22 x 6 x 0.0417 ÷ 27 =
*6774.22 x 10 x (0.3750 ÷ 2) ÷ 27 =
6774.22 x 10 x 0.0417 ÷ 2 =
From Ramps = 7914 Sq. Yds.
*4393 x 9 x 0.0417 ÷ 27 =
3521 x 9 x 0.0417 ÷ 27 =
Deduct Interchange Ramps 9818 SQ. YDS.
*9818 x 9 x (03750 ÷ 2) ÷ 27 =
*5089 x 9 x 0.0417 ÷ 27 =
4729 x 9 x 0.0417 ÷ 27 =

NORMAL PART.	100% STATE
	4447.17
	494.53
494.53	
	444.72
	148.36
148.36	
	47.04
	31.39
31.39	
	41.85
	282.26
	62.77
	470.43
104.62	
	61.06
48.94	
	613.62
	70.74
-65.73	
2200	7285

TOTAL ITEM 403 TO GENERAL SUMMARY

ITEM 407 TACK COAT (702.04, MS-2 or RS-1, or 702.02, RC-70 or RC 250)
± From Typical Section No. 1 = 32019.63 Lin. Ft.
(32019.63 x 74) ÷ 9 x 0.1 = 26,327 GAL.
± From Typical Section No. 2 = 6774.22 Lin. Ft.
(6774.22 x 74) ÷ 9 x 0.1 = 5570 GAL.
From Ramps and Ramp Berms = 31297 SQ. YDS.
31297 x 0.1 = 3130 GAL.

TOTAL ITEM 407 TO GENERAL SUMMARY

NORMAL PART.	100% STATE
13,164	13,163
2785	2785
1594	1536
17,543	17,484

ITEM 409 SEAL COAT AGGREGATE NO. 8 *

From Typical Section No. 1 = 32019.63 Lin. Ft.
32019.63 x 13 ÷ 9 x 0.008 = 370.00 CU. YD.
From Typical Section No. 2 = 6774.22 Lin. Ft.
6774.22 x 13 ÷ 9 x 0.008 = 78.28 CU. YD.
From Ramps = 4393 SQ. YDS.
4393 x0.008 = 35.14 CU. YD.
Deduct For Interchange Ramp Areas 5089 SQ. YDS.
5089 x 0.008 = -40.71 CU. YD.

TOTAL ITEM 409 AGGREGATE TO GENERAL SUMMARY 443 CU. YDS.

NORMAL PART.	100% STATE
	443

ITEM 617 SHOULDER PREPARATION ±
From Typical Section No. 1 & 2 = 38794 Lin.Ft.
38794 x (5+2) x 2 ÷ 9 = 60,346 SQ. YDS.
Add For Ramps = 21,230 Lin. Ft.
21230 x 2 ÷ 9 = 4,718 SQ. YDS.
TOTAL ITEM 617, SHOULDER PREPARATION TO GENERAL SUMMARY 65,064 SQ.YDS. ±

ITEM 409 SEAL COAT BITUMINOUS MATERIAL *

From Typical Section No. 1 = 32019.63 Lin.Ft.
32019.63 x 13 ÷ 9 x 0.3 = 13875.17 GAL.
From Typical Section No. 2 = 6774.22 Lin. Ft.
6774.22 x 13 ÷ 9 x 0.3 = 2935.50 GAL.
From Ramps = 4393 SQ. YDS.
4393 x 0.3 = 1317.90 GAL.
Deduct For Interchange Ramp Areas = 5089 SQ. YDS.
5089 x 0.3 = -1526.70 GAL.

TOTAL ITEM 409 BITUMINOUS MATERIAL TO GENERAL SUMMARY 16,602 GAL. *

ITEM 617 COMPACTED AGGREGATE (MODIFIED) ±

From Typical Section No. 1 = 32019.63 Lin. Ft.
32019.63 x (0.2500 ÷ 2) x 2 x 2 ÷ 27 = 592.96 CU. YD.
32019.63 x (0.4167 ÷ 2) x 5 x 2 ÷ 27 = 2470.85 CU. YD.
From Typical Section No. 2 = 6774.22 Lin. Ft.
6774.22 x (0.2500 ÷ 2) x 2 x 2 ÷ 27 = 125.45 CU. YD.
6774.22 x (0.4167 ÷ 2) x 5 x 2 ÷ 27 = 522.74 CU. YD.
From Ramps = 21,230 Lin. Ft.
21230 x (0.2500 ÷ 2) x 3 ÷ 27 = 294.86 CU. YD.
Deduct For Interchange Ramp Areas 9211 Lin. Ft.
9211 x (0.4167 ÷ 2) x 5 ÷ 27 = -355.31 CU. YD.

TOTAL ITEM 617 TO GENERAL SUMMARY 3651 CU. YDS. ±

ITEM 659 COMMERCIAL FERTILIZER 12-12-12

TOTAL ITEM 659 SEEDING AND MULCHING 246,801 SQ.YDS.
TOTAL ITEM 660 SODDING 3,817 SQ.YDS.
TOTAL 250,618 SQ.YDS.
250618 x (9x20) ÷ (1000x2000)= 22.56 TONS

TOTAL TO SUMMARY 22.56 TONS

ITEM 407 COVER AGGREGATE FOR TACK COAT

TOTAL GALLONS BITUMINOUS TACK COAT 35,027 GAL.
(35,027 ÷ 0.1) x 7 ÷ 2000 1225 TONS

613 TONS NORMAL
612 TONS 100% STATE

TOTAL TO SUMMARY 1225 TONS

ITEM 617 WATER ±

TOTAL ITEM 617 COMPACTED AGGREGATE 3651 CU.YDS.
3651 x 5 ÷ 1000 = 18.25 M. GALS.

TOTAL TO GENERAL SUMMARY 18 M. GAL. ±

*=100% STATE

± ½ NORMAL & ½ 100% STATE

Rev. 7-5-74

GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

13
19

AUGLAIZE COUNTY
AUG.-75-4.97

* 100% State

TYPE Code 6706 except as noted.

| ITEM | SHEET NUMBER | | |

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

14
191

AUGLAIZE COUNTY
AUG.-75-4.97

GENERAL SUMMARY

TYPE Code 6706 except as noted.

ITEM	SHEET NUMBER: 8	10	12	17	18	20	20A	22	23	27	28	29	32	33	34	35	36	38	53	55	108	124	Normal Part.	* 100% State	ITEM	QUANT.	UNIT	DESCRIPTION
603																24							24		603	24	Lin.Ft.	15"-10"x9"-10" Conduit, Type A, 707.03
603																16							16		603	16	Lin.Ft.	15"-10"x9"-10" Conduit, Type A, 707.03, Reconstructed
603											114												114		603	114	Lin.Ft.	24" Conduit, Type B
603								90				56				66							212		603	212	Lin.Ft.	12" Conduit, Type B
603																30							30		603	30	Lin.Ft.	15" Conduit, Type B
603											276												276		603	276	Lin.Ft.	18" Conduit, Type B
603																125							125		603	125	Lin.Ft.	15" Conduit, Type C
603																274							274		603	274	Lin.Ft.	21" Conduit, Type C
603																116							116		603	116	Lin.Ft.	30" Conduit, Type C, 706.02
603									174							8							182		603	182	Lin.Ft.	6" Conduit, Type E; 706.01 or 706.02
603																82							82		603	82	Lin.Ft.	8" Conduit, Type E, 706.01 or 706.02
603									700							262							962		603	962	Lin.Ft.	10" Conduit, Type E, 706.01 or 706.02
603																70							70		603	70	Lin.Ft.	12" Conduit, Type E, 706.01 or 706.02
																16							16		603	16	Lin.Ft.	18" Conduit, Type E, 706.01 or 706.02
																20							20		603	20	Lin.Ft.	6" Conduit, Type F
603	150															58				60			268		603	268	Lin.Ft.	8" Conduit, Type F
603									58														58		603	58	Lin.Ft.	10" Conduit, Type F
603											10					76							86		603	86	Lin.Ft.	12" Conduit, Type F
603																24							24		603	24	Lin.Ft.	15" Conduit, Type F
603																36							36		603	36	Lin.Ft.	18" Conduit, Type F
603																80							80		603	80	Lin.Ft.	24" Conduit, Type F
509																			251				251		509	251	Lbs.	Reinforcing Steel
602								0.2		0.3	0.4	0.2				54.6		8.6					64.3		602	64.3	Cu.Yd.	Concrete Masonry
605																				*182				182	605	182	Lin.Ft.	Aggregate Drains
604								1			2					12		1					16		604	16	Each	Catch Basin, Standard No. 2-2-B
604																1	17						18		604	18	Each	Catch Basin, Standard No. 4, modified as per plan
604																4							4		604	4	Each	Catch Basin, Standard No. 8, modified as per plan
604																1	2						3		604	3	Each	Catch Basin, Reconstructed as Standard No. 2-2-B
604																	8						8		604	8	Each	Catch Basin, Reconstructed as Standard No. 4
604																	20						20		604	20	Each	Catch Basin, Reconstructed as Standard No. 8
604												1				1							2		604	2	Each	Catch Basin, Standard No. 6, modified as per plan
																												PAVEMENT
Spec.						*3408																		3408	Special	3408	Sq.Ft.	Bridge Deck Surface Repair, more than 1" in depth
Spec.						*3408																		3408	Special	3408	Sq.Ft.	Bridge Deck Surface Repair, 1" or less in depth
609						760																	760		609	760	Lin.Ft.	Asphalt Concrete Curb, Standard Type 1 (60-70 or AC-20)
511						*1.5																	1.5		511	1.5	Cu.Yd.	Class C Concrete
Spec.						464																	464		Special	464	Sq.Ft.	Galvanized Steel Drip Strip
516						*102 96																	606	102	516	798	Lin.Ft.	Raising Structural Expansion Joint, as per plan
301								607	347	244	780		1324	1096	61					*146			5 4464	146	301	4610	Cu.Yd.	Bituminous Aggregate Base: 702.01 (BS-100 or AC-20) or 702.09, RT-11 or RT-12
								184			274												458		609	458	Lin.Ft.	Concrete Curb, Standard Type 6
304															274								274		304	274	Cu.Yd.	Aggregate Base
310								1143	680	465	1547		1116	926	229							6	6112 ~~8381~~		310	6112	Cu.Yd.	Subbase
																							9098	1274	Spec.	10372	Sq.Yd.	Membrane Waterproofing, Sheet Type (See Proposal Note)
403	1095*		2802 1095*					115	45	137	102		121	96									2811 ~~3907~~	~~2201~~	403	11198	Cu.Yd.	Asphalt Concrete (60-70 or AC-20)
404			4835*					188	90	1	52		111	92						*55 286			*5 12 ~~5634~~	~~4841895~~	404	5694	Cu.Yd.	Asphalt Concrete (60-70 or AC-20)
407			*11488 11488					215	51	214	148												23* 18,181	17,507	407	25688	Gals.	Tack Coat: 702.04, SS-1, SS-1H, MS-2, or RS-1; or 702.02, RC-70 or RC-250
								160			130												290		609	290	Lin.Ft.	Concrete Curb, Standard Type 7
409			16602*					731	267		461		473	541	832								6405 ~~23,007~~	16,602	409	23,007	Gals.	Seal Coat Bituminous Material: 702.02, MC-800 or MC-3000; 702.04, RS-1, RS-2, or
								500			518												50 1068		609	1068	Lin.Ft.	Concrete Curb, Standard Type B CRS-2; or 702.03 CBAE 800
409			443*					20	7		12		13	14	105								171 ~~614~~	~~443~~	409	614	Cu.Yd.	Seal Coat Cover Aggregate No. 8
407			*6178 6178																				*0.79 613.35	612.79	407	1226.14	Tons	Cover Aggregate
						*19 128																	128	18	Spec.	146	Cu.Yd.	Sand Asphalt (See Proposal Note)
Spec.			3655							112	164		77	57								2	3967		Spec.	3967	Cu.Yd.	Open Graded Plant Mixed Seal Coat
622				280	238																		518		622	518	Lin.Ft.	Concrete Barrier ~~Traffic~~ See Sheet No. 138
																												For Traffic Control Quantities See Sheet No. 138
																												For Lighting Quantities See Sheet No. 185
623																							Lump		623	Lump	Lump	Construction Layout Stakes
614		Lump																					Lump		614	Lump	Lump	Maintaining Traffic
619	Lump																						Lump		619	Lump	Lump	Field Office

Rev. 8-21-74 A.W.G. Rev. 7-5-74

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY
AUG.-75-4.97

15/197

ITEM 202 EXISTING GUARDRAIL REMOVED FOR STORAGE

LOCATION STATION ± FROM	TO		SINGLE RAIL DESIGN LIN. FT.	BARRIER RAIL DESIGN LIN. FT.	REMARKS
I-R-75 GUARD RAIL					
317+10	15+97 (AA)	Lt.	137.5		Replace as per plan
317+04	322+04.5	Med.	700.0		Replace as per plan
317+01	318+51	Med.	150.0		Do not replace
316+94	322+08.8	Rt.	512.5		Replace as per plan
320+92	322+08.5	Med.	112.5		Do not replace
322+08	322+40.5	Med.			Remains as is.
324+12	7+51.8 (C)	Lt.			Remains as is.
323+93	324+93	Med.	237.5	62.5	Replace as per plan
323+80.5	5-85.5	Med.	230		Do not replace
323+64.5	875+45 (33A)	Rt.	1637.5		Replace as per plan
331+92	335+54.5	Lt.	362.5		Eliminate
6+27 (A)	335+62.5	Rt.	575.0		Eliminate
336+95.4	338+01.65	Rt.	106.25		Replace as per plan
338+36.55	339+42.8	Lt.	143.75		Replace as per plan
352+25	357+50	Lt.	525.0		Eliminate Portion of Run
351+50	358+50	Rt.	700.0		Eliminate Portion of Run
370+46	371+58.5	Rt.	112.5		Replace as per plan
371+16.6	372+29.1	Lt.	112.5		Replace as per plan
429+24.5	430+87	Lt.	162.5		Replace as per plan
430+36	432+23.5	Rt.	187.5		Replace as per plan
445+50.21	452+50 ±	Lt.	700.0		Replace as per plan
446+50	448+20	Med.	87.5	87.5	Replace as per plan
446+50.29	452+62.79	Rt.	612.5		Replace as per plan
449+93.25	451+65	Med.	87.5	87.5	Replace as per plan
512+60	513+60	Rt.	100.0		Replace as per plan
512+57	513+57	Lt.	100.0		Replace as per plan
602+40	603+40	Rt.	100.0		Replace as per plan
602+34	603+34	Lt.	100.0		Replace as per plan
697+07	698+25.75	Rt.	118.25		Replace as per plan
697+69.75	698+88.5	Lt.	118.25		Replace as per plan
USR-33 INTERCHANGE GR.					
11+39.14 (A)	322+60.70 (I-75)	Lt.	737.5		Replace as per plan
11+37 (A)	15+04 (A)	Rt.	375.0		Replace as per plan
WAPAK-FISHER RD. INTERCHANGE					
7+49.69 (D)	8+56.19 (D)	Rt.	125.0		Eliminate
7+53.69 (D)	8+54 (D)	Lt.	125.0		Eliminate
5+38 (C)	5+69 (C)	Lt.	62.5		Eliminate
865+00	867+00	Lt.	200.0		Replace as per plan
864+95	867+20	Rt.	225.0		Replace as per plan
869+85	872+10	Lt.	225.0		Replace as per plan
5+35 (B)	8+55 (B)	Lt.	350.0		Eliminate
870+05	872+05	Rt.	200.0		Replace as per plan
1+21 (B)	8+45 (B)	Rt.	712.5		Replace as per plan
8+47 (C)	13+66 (C)	Lt.	512.5		Eliminate
SR-67 INTERCHANGE					
114+24.65	117+37	Rt.	312.5		Replace as per plan
114+17	118+16.5	Lt.	400.0		Replace as per plan
121+55.5	3+20 (A)	Rt.	362.5		Replace as per plan
122+33	125+57.5	Lt.	325.0		Replace as per plan
6+25 (C)	9+50 (C)	Lt.	325.0		Eliminate
NATIONAL ROAD INTERCHANGE					
8+43.79	10+31	Lt.	187.5		Replace as per plan
8+43.88	10+31	Rt.	187.5		Replace as per plan
8+50 (C)	12+03 (C)	Rt.	325.0		Eliminate
1+00 (D)	4+76 (D)	Rt.	387.5		Replace as per plan
0+96 (D)	18+62	Lt.	200.0		Replace as per plan
12+69.5	18+31.7	Rt.	562.5		Replace as per plan
12+03 (C)	12+69.5	Lt.	62.5		Replace as per plan
Totals to General Summary			16111.5	237.5	

ITEM 606 PROPOSED GUARDRAIL

LOCATION STATION ± FROM	TO		606 GUARD RAIL TYPE 5 LIN. FT.	606 ANCHOR ASSEMBLY BARRIER DESIGN EACH	SFT. BRIDGE RAIL, METAL DEEP BEAM Lin. Ft.	606 ANCHOR ASSEMBLY Each	606 BRIDGE TERMINAL ASSEMBLY "H"	"D"	"E"	"F"	"B"	606 GUARD RAIL TYPE 5 BARRIER DESIGN AS PER PLAN LIN. FT.	REMARKS
317+10	318+60	Lt.	125.0			1			1			200	Std. Roadside Flare; Ref. 1-G, sheet 2
317+04	322+40	Med.	562.5						2			200	Ref. 2-G & 5-G, sheet 2; see detail sheet no. 20
			562.5										Ref. 3-G, sheet 2
316+94	322+08.8	Rt.	512.5						1	1			Ref. 4-G, sheet 2
													Ref. 6-G, sheet 2
													No Work; Ref. 7-G, sheet 2
													No Work; Ref. 8-G, sheet 2
323+93	326+55	Med.	112.5	1					1			25.0	Ref. 9-G, sheet 2; see detail sheet no. 20
													Ref. 10-G, sheet 2
323+60	875+45 (33A)	Rt.	1612.5			1				1			Ref. 11-G, sheet 2
													Ref. 12-G, sheet 2; Regrading
													Ref. 13-G, sheet 2; Extended Struc. & regraded
													Ref. 14-G, sheet 2; Pier Protection, see sheet no. 16
													Ref. 15-G, sheet 2; Pier Protection, see sheet no. 16
352+00	354+50	Lt.	200			2							Ref. 16-G, sheet 2; Eliminated portion of run by regrading
350+00	352+75	Rt.	225			2							Ref. 17-G, sheet 2; Eliminated portion of run by regrading
													Ref. 18-G, sheet 2; Pier Protection, see sheet no. 16
													Ref. 19-G, sheet 2; Pier Protection, see sheet no. 16
													Ref. 20-G, sheet 3; Pier Protection, see sheet no. 16
													Ref. 21-G, sheet 3; Pier Protection, see sheet no. 16 & 17
447+50.21	451+39	Lt.	163.8		173.7	2					2		Ref. 22G & 25G, Sheet 3
446+61 ±	450+57.54	Med.	176.3	1	173.7	1					2	25	Ref. 23-G, sheet 3; Std. Depressed Median Approach
446+79 ±	452+62.79	Rt.	343.8		173.7	2					2		Ref. 27G, Sheet 3;
447+62.01	451+60 ±	Med.	176.3	1	173.7	1					2	25	Ref. 26-G, sheet 3; Std. Depressed Median Approach
													Ref. 29-G, sheet 3; Pier Protection, see sheet no. 16
													Ref. 28-G, sheet 3; Pier Protection, see sheet no. 16
													Ref. 30-G, Sheet 4; Pier Protection, see sheet no. 16
													Ref. 31-G, Sheet 4; Pier Protection, see sheet no. 16
													Ref. 32-G, Sheet 5; See Detail Sheets 18 & 19
													Ref. 33-G, Sheet 5; Pier Protection, See sheet no. 16
11+32 (33-R-A)	322+56 (I-75)	Lt.	712.5			1				1			Ref. 40-G, sheet 2; Replace same location w/bridge tie & anchor asm'bly.
11+37 (33-R-A)	15+01 (33-R-A)	Rt.	350.0			2							Ref. 41-G, sheet 2; see cross section sheet no. 109
													Ref. 52-G, sheet 2; Eliminated by fill construction
													Ref. 53-G, sheet 2; Eliminated by fill construction
													Ref. 54-G, sheet 2; Eliminated by fill construction
865+50 (33A)	867+00 (33A)	Lt.	150.0			1	1			1			Ref. 55-G, sheet 2; Replaced with Standard Approach
865+70 (33A)	867+20 (33A)	Rt.	150.0			1	1						Ref. 56-G, sheet 2; Replaced with Standard Approach
869+85 (33A)	871+35 (33A)	Lt.	150.0			1	1						Ref. 57-G, sheet 2; Replaced with Standard Approach
													Ref. 58-G, sheet 2; Eliminated by fill construction
870+05 (33A)	871+55 (33A)	Rt.	150.0			1	1						Ref. 59-G, sheet 2; Replaced with Standard Approach
1+21 (33A-R-B)	8+45 (33A-R-B)	Rt.	662.5			2							Ref. 60-G, sheet 2; Replaced as is but with Anchor Assemblies
													Ref. 36-G, sheet 2; Eliminated by fill construction
115+96 ±	117+43 ±	Rt.	125.0			1	1						Ref. 42-G, Sheet 3; Standard Roadside Approach Flare
116+27 ±	118+23 ±	Lt.	175.0			1	1						Ref. 43-G, Sheet 3; Standard Roadside Approach Flare
121+49 ±	0+90 (A)	Rt.	125.0			1	1						Ref. 44-G, sheet 3; Standard Roadside Approach Flare
122+28 ±	123+75 ±	Lt.	125.0			1	1						Ref. 45-G, sheet 3; Standard Roadside Approach Flare
													Ref. 46-G, Sheet 3; Eliminated by fill construction
8+88 ±	10+36 ±	Lt.	125.0			1	1						Ref. 47-G, Sheet 5; Replaced with Standard Approach
8+88 ±	10+36 ±	Rt.	125.0			1	1						Ref. 48-G, sheet 5; Replaced with Standard Approach
													Ref. 49-G, Sheet 5;
1+00 ±	4+76	Rt.	362.5			1							Ref. 50-G, Sheet 5; Replaced as is but with Anchor Assembly
0+96 (D)	18+62	Lt.	175.0			1							Ref. 61-G, Sheet 5; Replaced as is but with Anchor Assembly
12+64 ±	18+31.7	Rt.	537.5			1	1						Ref. 51-G, Sheet 5; Replaced as is but with Anchor Assembly
13+94 (C)	12+64	Lt.	175			1	1						Ref. 49-G, Sheet 5
			8583.2	3	694.8	31	12		5	4	8	275	

8583.2 5 4 275

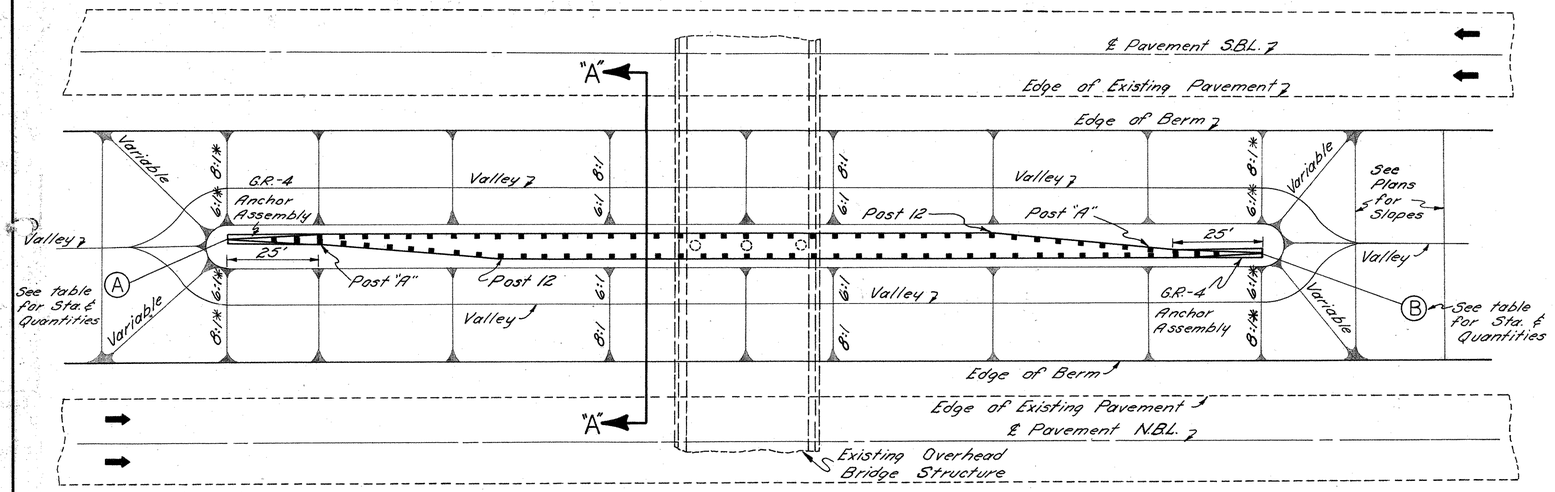
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

16/191

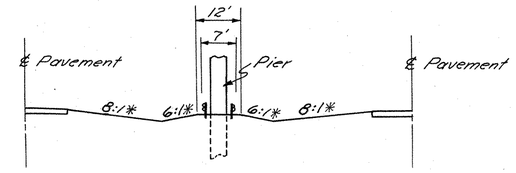
AUGLAIZE COUNTY
AUG.-75-4.97

PIER PROTECTION DETAIL

Using G.R.-6 for depressed median

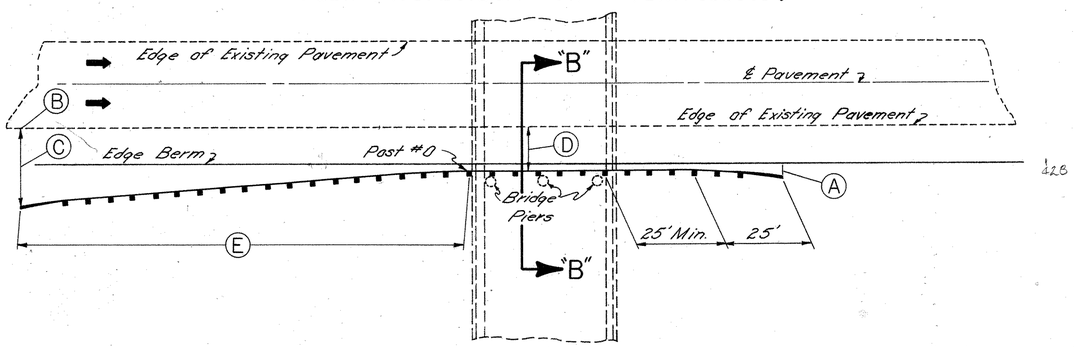


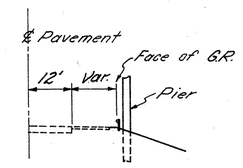
* Unless otherwise shown



SECTION "A-A"

PIER PROTECTION G.R.-5 (Introduced)





SECTION "B-B"

	BY	DATE
DETAILED	WJM	7-73
DETAILS CHECKED	RR	9-73
DETAILS REVISED	CEK	10-73

Note: Quantity totals from this sheet carried to General Summary.
Total Rail 4837.5
Total Anchors 32

SOUTHBOUND LANES

Stationing, offsets, & Quantities for Pier Protection

Ref. Nº	Station (A)	Station (B)	©	(D)	(E)	606 Guard-Rail Type 5	606 Anchor Ass'bly
			Ft.	Ft.	Ft.	Lin. Ft.	Each
15G	337+91	340+28.5	30.0	12	150	187.5	2
19G	370+73	372+85.5	17.3	9	125	162.5	2
20G	428+72	431+47	17.8	9-6	125	225.0	2
28G	512+09	514+21.5	19.55	11-3	125	162.5	2
31G	601+88	604+24	28.75	10-9	150	187.5	2
33G	697+23	699+47	19.8	11-6	125	175.0	2
	Total					1100	12

MEDIAN

PIER PROTECTION LOCATION & QUANTITIES

Station (A)	Station (B)	606 Guard-Rail Type G.R.-5	606 Anchor Assembly Barrier Design
		Lin. Ft.	Each
336+75	339+62.5	475.0	2
369+98	372+85.5	475.0	2
428+92	432+42	600.0	2
511+66	514+53.5	475.0	2
601+46	604+33.5	475.0	2
696+41	699+53.5	525.0	2
Total		3025	12

NORTHBOUND LANES

Stationing, offsets, & Quantities for Pier Protection

Station (A)	Station (B)	©	(D)	(E)	606 Guard-Rail Type 5	606 Anchor Ass'bly	Ref. Nº
		Ft.	Ft.	Ft.	Lin. Ft.	Each	
338+48	336+35.5	20.3	12	125	162.5	2	14G
372+03	369+90.5	17.3	9	125	162.5	2	18G
432+65	429+90	Concrete Barrier Median See Sht. 17					21G
514+12.5	512+00	19.55	11-3	125	162.5	2	29G
604+23.5	601+50	28.75	10-9	150	225.0	2	30G
698+78.5	696+16	Concrete Barrier Median See Sht. 18 & 19					32G
Total					712.5	8	

PIER PROTECTION DETAIL

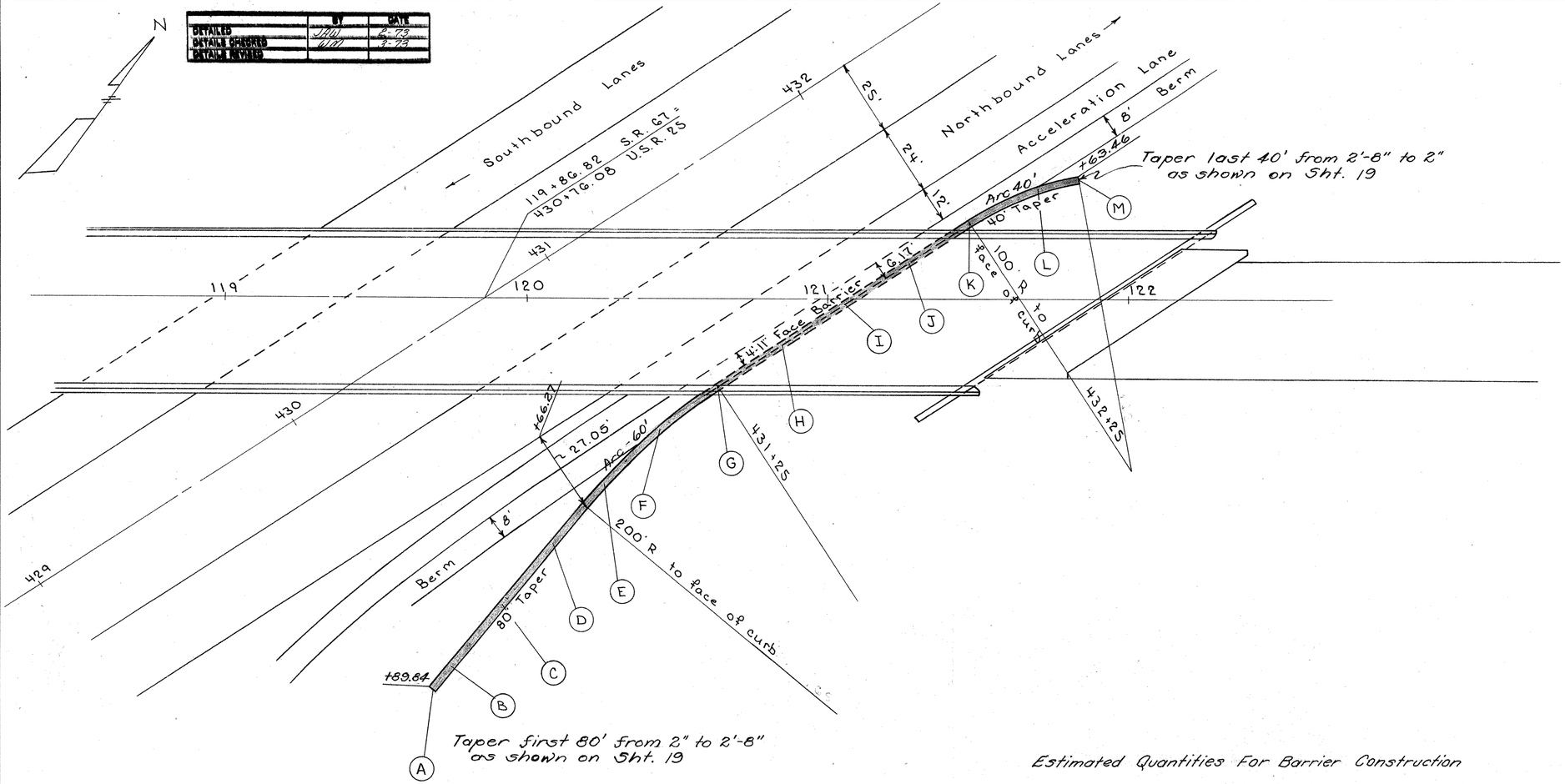
DETAILED	BY	DATE
DETAILS CHECKED	JAW	2-73
DETAILS APPROVED	WM	3-73

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

17/191

AUGLAIZE COUNTY

AUG - 75 - 4.97



Note: For dimensions and design on barrier see sheet 18&19

Point	Offset from edge NBL Pvmt. to ℄ of Barrier	Elevation at bottom on ℄ of Barrier	Station
A	50.69	891.97	429+89.84
B	47.55	892.13	430+00
C	39.81	892.81	430+25
D	32.08	893.57	430+50
E	24.56	894.09	430+75
F	19.75	894.38	431+00
G	18.17	894.38	431+25
H	18.17	894.31	431+50
I	18.17	894.23	431+75
J	18.17	894.16	432+00
K	18.17	894.09	432+25
L	21.39	893.89	432+50
M	25.97	893.58	432+63.46

Estimated Quantities For Barrier Construction

Item 622 Concrete Barrier 280 Lin. Ft.

Quantities to General Summary

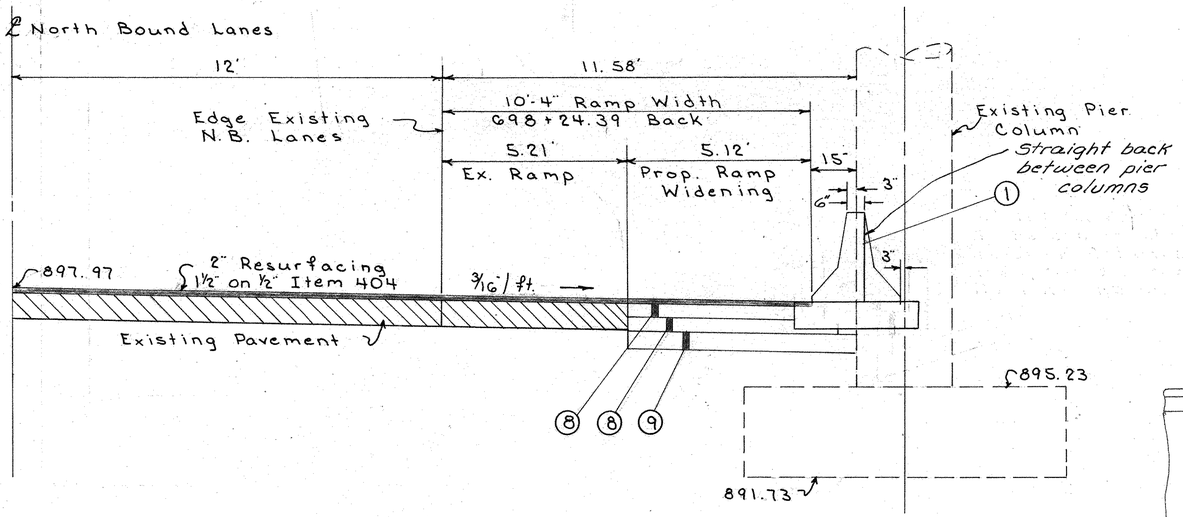
PIER PROTECTION DETAILS FOR BRIDGE # AUG-75-0721 S.R-67 OVER I.R-75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

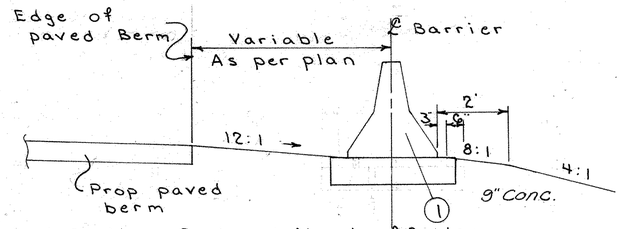
18
191

AUGLAIZE COUNTY

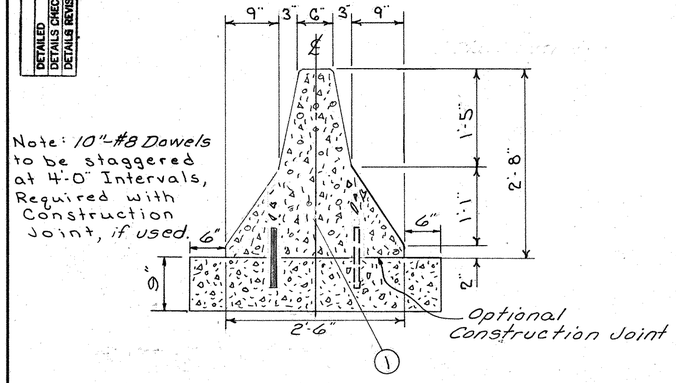
AUG -75- 4.97



CROSS SECTION AT 698+24.39
Typical Through Bridge



Typical Section Back and Ahead of Bridge



Note: 10"-#8 Dowels to be staggered at 4'-0" Intervals, Required with Construction Joint, if used.

TYPICAL CROSS SECTION OF BARRIER

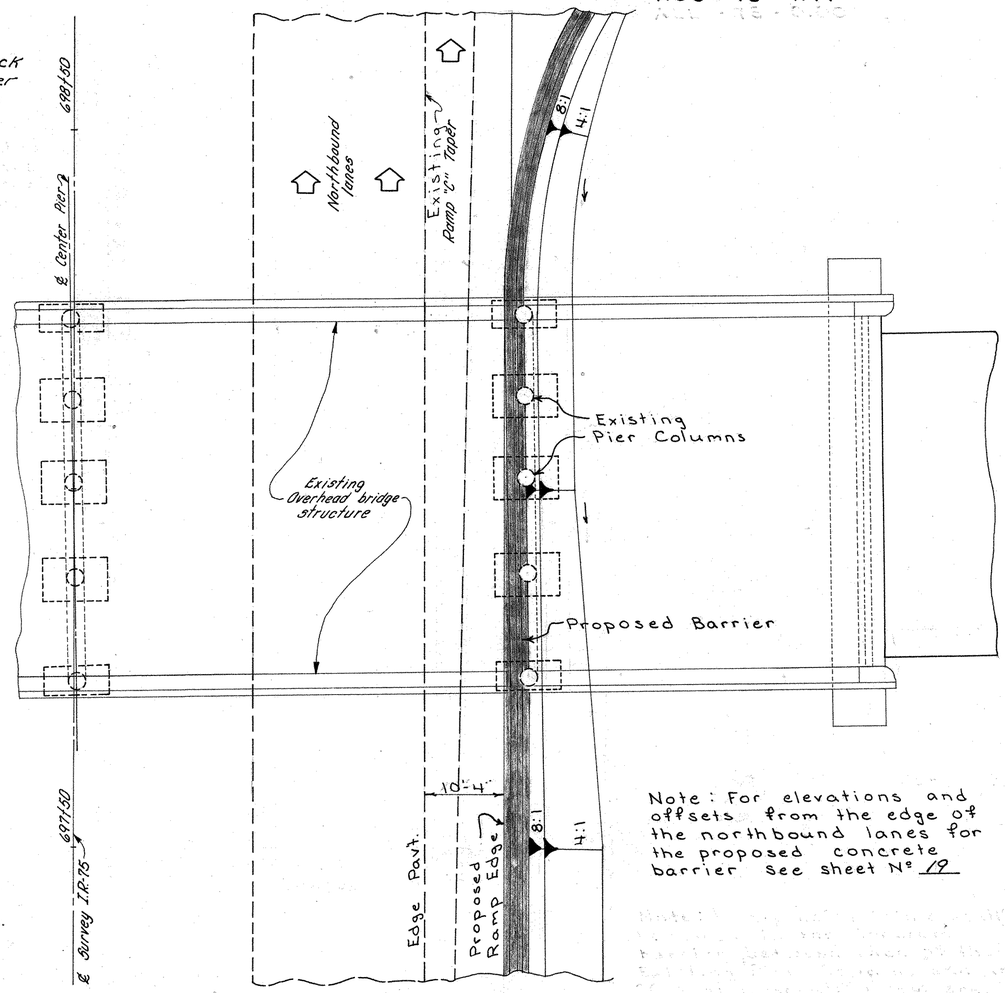
Estimated Quantities for Barrier Construction

Item			
622	Concrete Barrier	237.5	Lin. Ft.

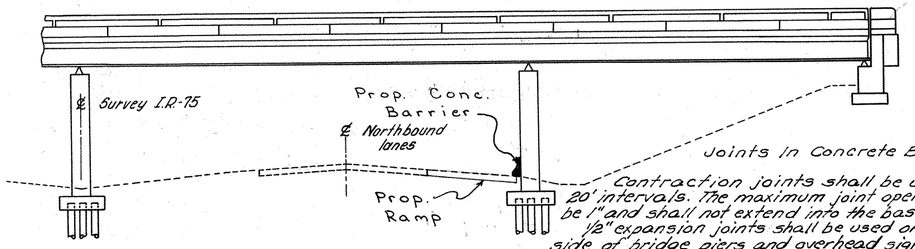
Quantities to General Summary

LEGEND

① Item 622 Concrete Barrier, as per plan
⑧ Item 301 4½" Bituminous Aggregate Base
⑨ Item 310 6" Subbase



Note: For elevations and offsets from the edge of the northbound lanes for the proposed concrete barrier see sheet N° 19



PROFILE

Joints in Concrete Barrier

Contraction joints shall be used at 20' intervals. The maximum joint opening shall be 1" and shall not extend into the base.
½" expansion joints shall be used on either side of bridge piers and overhead sign supports or as required by the Engineer.
The cost of all the above shall be included in the unit price bid per lineal foot of the concrete barrier.

BY	DATE
	6-23
	7-23

DETAILED
DETAILS CHECKED
DETAILS REVISED

PIER PROTECTION DETAILS FOR BRIDGE # AUG-75-1234 ~ NATIONAL RD. OVER I.R-75

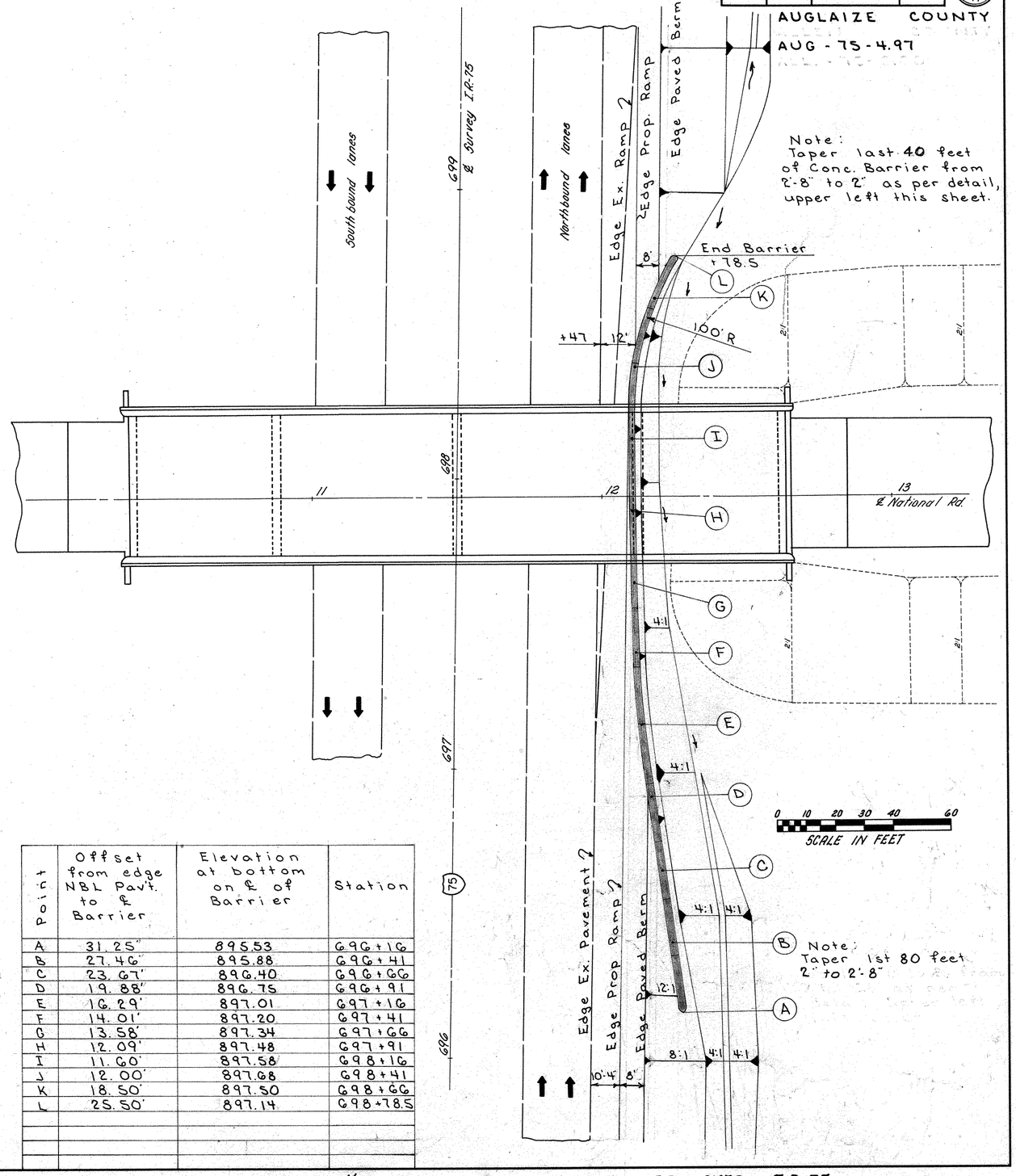
	BY	DATE
DETAILED	JAW	3-73
DETAILS CHECKED	RP	5-73
DETAILS REVISED		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

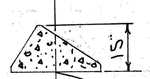
19
191

AUGLAIZE COUNTY

AUG - 75 - 4.97

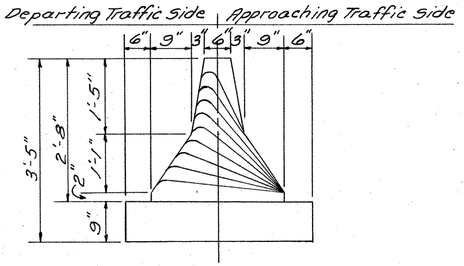


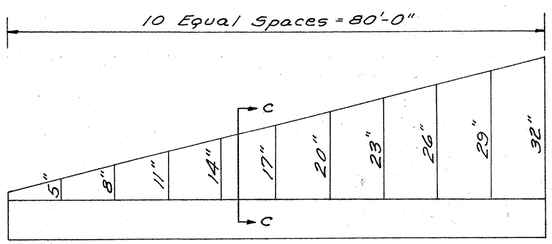
℄ Concrete Barrier



Offset & Elev. Location in table below

Section C-C





Detail Of End Transition for Concrete Barrier Wall

Point	Offset from edge NBL Pavt. to ℄ Barrier	Elevation at bottom on ℄ of Barrier	Station
A	31.25'	895.53	696+16
B	27.46'	895.88	696+41
C	23.67'	896.40	696+66
D	19.88'	896.75	696+91
E	16.29'	897.01	697+16
F	14.01'	897.20	697+41
G	13.58'	897.34	697+66
H	12.09'	897.48	697+91
I	11.60'	897.58	698+16
J	12.00'	897.68	698+41
K	18.50'	897.50	698+66
L	25.50'	897.14	698+78.5

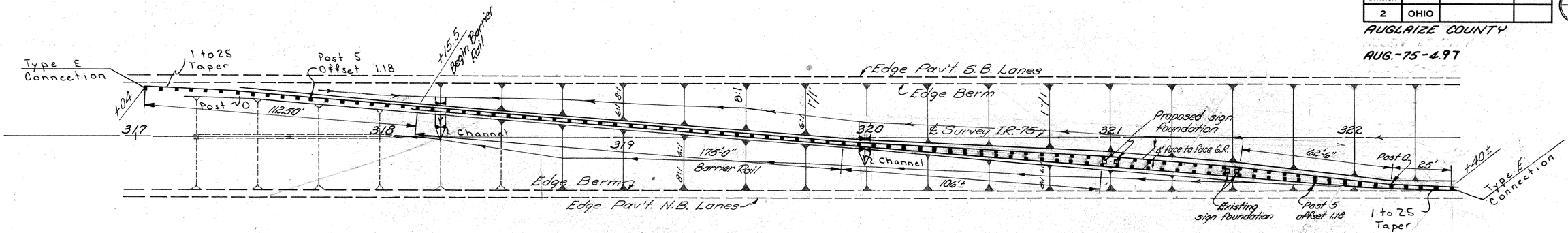
PIER PROTECTION DETAILS FOR BRIDGE # AUG-75-1234 ~ NATIONAL RD. OVER I.R-75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

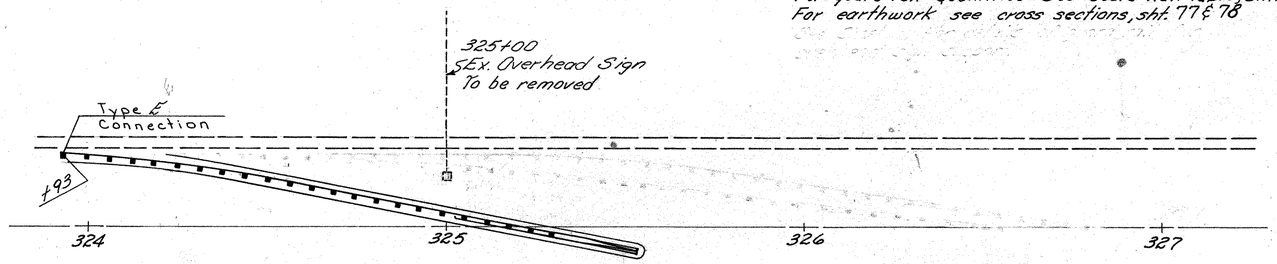
20/191

AUGLAIZE COUNTY

AUG.-75-4.97



GUARD RAIL DETAIL (Ref. 2-C, see sheet 2℄)
For guard rail Quantities see Guard Rail Table, sht. 15
For earthwork see cross sections, sht. 77 & 78



GUARD RAIL DETAIL (Ref. 9-C, see sht. 2℄)
For guard rail Quantities see Guard Rail Table, sht. 15
For earthwork see cross sections, sht. 78 & 79

ITEM	ESTIMATED QUANTITIES	
606	Guardrail, Type 5, as per plan	112.5 Lin. Ft.
606	Guard rail, Type 5, Barrier Design, as per plan	50 Lin. Ft.

ITEM	ESTIMATED QUANTITIES	
606	Guard rail, Type 5, as per plan	562.5 Lin. Ft.
606	Guard rail, Type 5, Barrier Design, as per plan	200 Lin. Ft.

SYMBOLS

Pavement Removal

Item 404, 1" Asphalt Concrete (60-70 or AC 20) Southbound Lanes, Item Special, ¾" Open Graded Plant Mixed Seal Coat for Northbound Lanes, on 403, ½" Asphalt Concrete (60-70 or AC-20) on Item 301, 4½" Bituminous Agg. Base, on Item 301, 4½" Bit. Aggregate Base, on Item 310, 6" Subbase.

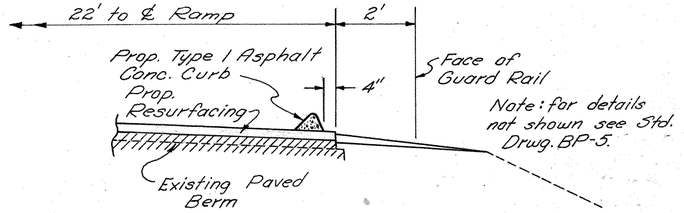
Item 409 Seal Coat Cover Aggregate (Southbound Lanes only) on Item 409 Seal Coat Bituminous Material (Southbound Lanes Only) on Item 404, 1" Asphalt Concrete (60-70 or AC 20) Southbound Lanes, Item Special, 1" Open Graded Plant Mix Seal Coat for Northbound Lanes, on 403, ½" Asphalt Concrete (60-70 or AC-20) on Item 301, 4½" Bituminous Agg. Base on Item 310, 4½" subbase.

Item 404, 0" to 2½" Asphalt Concrete (60-70 or AC20) on Item 407 Tack Coat @ 0.1 Gal Per Sq. Yd.

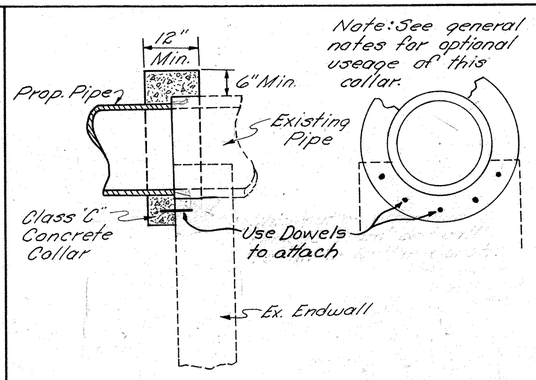
	BY	DATE
DETAILED	WJM	3-73
DETAILS CHECKED	RP	5-73
DETAILS REVISED		

Work Required: Construct curb on left side of Ramp "A" of U.S.R.-33 & I.R.-75 Interchange from Sta. 111+32 to Sta. 322+61 as shown. See Sht. 20A

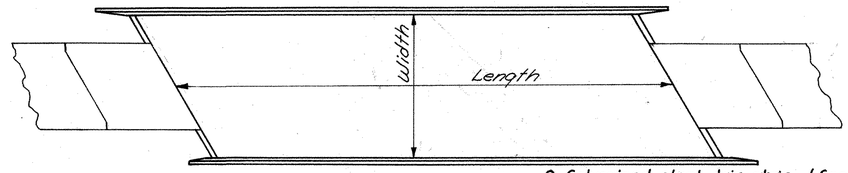
Estimated Quantities: 760' Lin. Ft. Item 609 Asphalt Conc. Curb carried to Gen. Summary.



DETAIL OF ASPHALT CONCRETE CURB



MASONRY COLLAR DETAIL



○ Galvanized steel drip strip (See Sh. 20B), Item Special
△ Membrane Waterproofing, Sheet Type, Item Special
□ Raising structural expansion joint, as per plan, Item 516

BRIDGE RESURFACING QUANTITY TABLE

On ℄ Survey From	On ℄ Survey To	* Length	* Width	Sq. Ft.	ITEM 406 QU. YDS.	Δ Sq. Yd.	□ Lin. Ft.	○ S.F.	Sand Asphalt Sq. Ft.	Remarks
867+15.34	869+90.70	275.36	28'	7710.08	23.79	856.68	66.67		11.91	Wapak-Fisher Rd. over I-75
314+45.55	316+90.09	244.54	51.67'	12635.38	39.00	1364.60	104.67		19.51	Crossing U.S.R. 33 – N.B.L.
314+45.55	316+90.09	244.54	39.58'	9678.89	29.87	1040.60	80.33		14.95	Crossing U.S.R. 33 – S.B.L.
117+92.66	121+93.98	401.32	46'	18460.72	56.95	2051.19	170.33		28.51	S.R. 67 over I-75
322+37.76	323+82.38	144.62'	30'	4338.60	13.39	474.06	–		6.70	Crossing N.Y.C.R.R. – N.B.L.
322+37.76	323+82.38	144.62'	30'	4338.60	13.39	474.06	–		6.70	Crossing N.Y.C.R.R. – S.B.L.
13+89.75	16+10.25 **	220.50	24'	5292.00	16.33	588.00	48.00		8.17	Middle Pike over I-75
448+19.67	449+93.33	173.66'	44'	7641.04	23.58	832.15	91.00	232	11.80	Crossing Auglaize River – N.B.L.
448+19.67	449+93.33	173.66'	44'	7641.04	23.58	832.15	91.00	232	11.80	Crossing Auglaize River – S.B.L.
10+35.33	12+64.83	229.50'	46'	10557.00	32.57	1173.00	92.00		16.30	National Road over I-75
13+71.45	16+28.55 **	257.10'	24'	6170.40	19.04	685.60	54.33		9.53	Buckland-Holden Rd. over I-75
			L x W = S.F. →	94463.75	291.49	10372.09	798.33	464	145.88	Quantities to Gen. Sum.

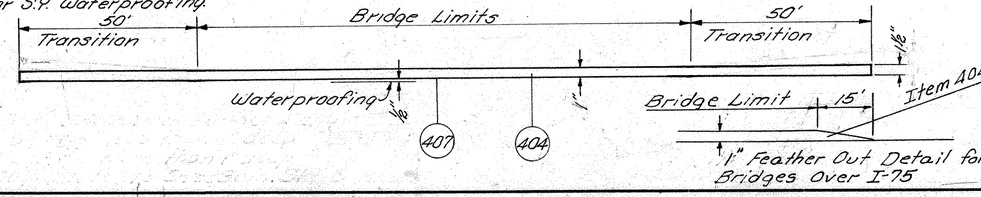
* Bulb Angles where they occur deducted from width and Bridge Limits minus 3.33 ÷ Cos. Skew used for lgth. in Calc. for S.Y. Waterproofing.

S.F. x .0833 ÷ 2.7 = C.Y.

S.F. ÷ 9 = S.Y.

S.F. x .0417 ÷ 27 = C.Y.

** 100% State Financed



DETAILS AND BRIDGE RESURFACING TABLE

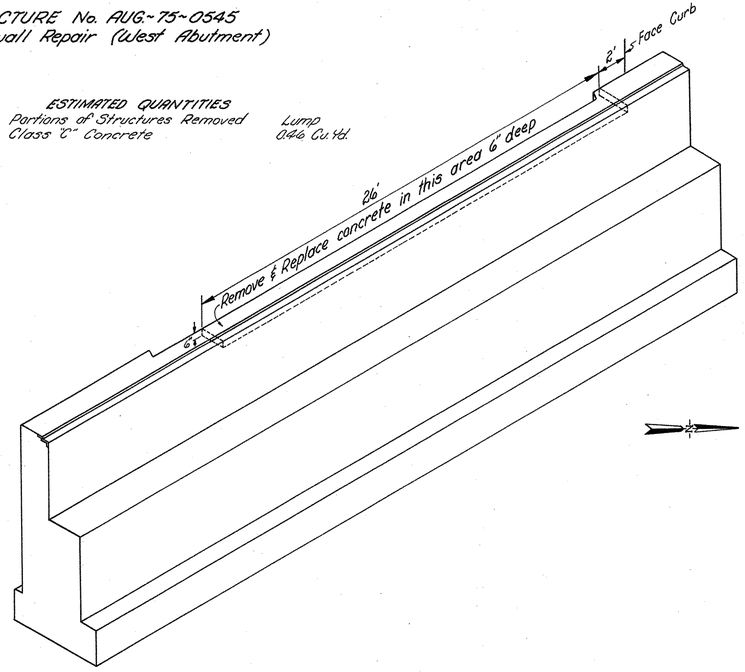
FHWA REGION	STATE	PROJECT	
5	OHIO		

20A
79

AUGLAIZE COUNTY
AUG.-75-4.97

STRUCTURE No. AUG.-75-0545
Backwall Repair (West Abutment)

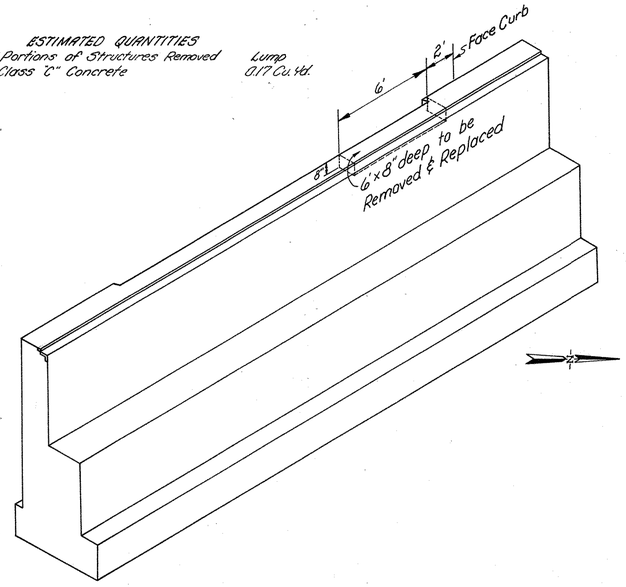
ITEM	ESTIMATED QUANTITIES	
202	Portions of Structures Removed	Lump
511	Class "C" Concrete	0.46 Cu. Yd.



DATE
BY
DETAILED
DETAILS CHECKED
DETAILS REVISED

STRUCTURE No. AUG.-75-1047
Back Repair (West Abutment)

ITEM	ESTIMATED QUANTITIES	
202	Portions of Structures Removed	Lump
511	Class "C" Concrete	0.17 Cu. Yd.



BRIDGE DECK SURFACE REPAIR QUANTITIES

100% STATE

	PARTICIPATING		100% STATE					
	More than 1" Sq. Ft.	1" or less Sq. Ft.	More than 1" Sq. Ft.	1" or less Sq. Ft.		More than 1" Sq. Ft.	1" or less Sq. Ft.	202 wearing course removed Sq. Ft.
AUG.-75-0515 AUG.-75-0754					AUG-75-0498R AUG-75-0498L	125 125	125 125	28 28
AUG.-75-0545 WAPAK-FISHER RD.			88	88	AUG-75-0515R AUG-75-0515L	250 125	250 125	56 28
AUG-67-0345			845	845	AUG-75-0754R AUG-75-0754L	250 125	250 125	56 28
AUG-75-0608 MIDDLE PIKE			1050	1050	Total Sub Total	1000 2408	1000 2408	224 —
AUG-75-1234 NATIONAL RD.			221	221	Grand Total	3408	3408	224
AUG-75-1047 BUCKLAND-HOLDEN RD.			204	204				
SUBTOTAL			2408	2408				

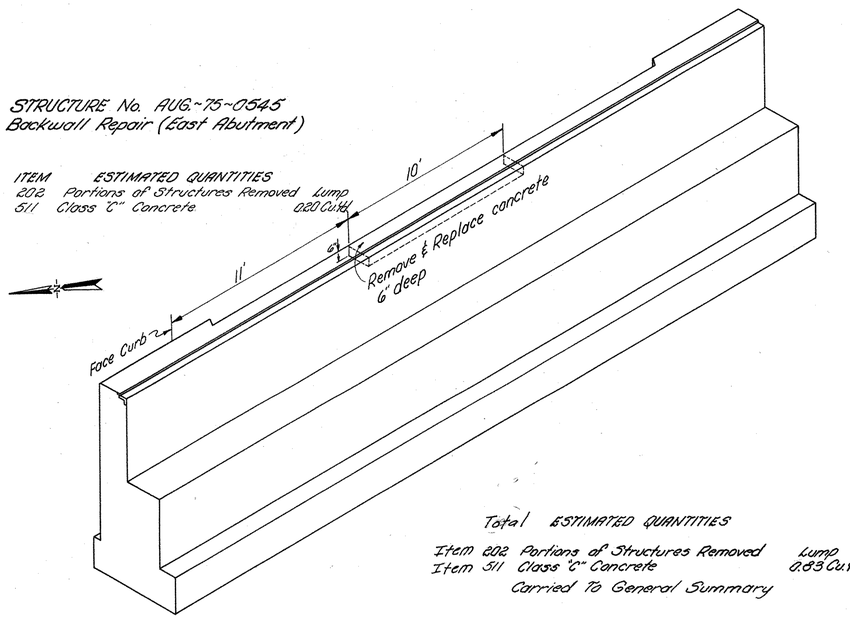
Totals Carried to General Summary
(100% STATE COST)

ITEM	ESTIMATED QUANTITIES	
609	Asphalt Concrete Curb	760 Lin. Ft.
601	Paved Gutter, Type 1-2	91 Lin. Ft.
660	Sodding	48 Sq. Yd.

Carried To General Summary
(Normal Participation)

STRUCTURE No. AUG.-75-0545
Backwall Repair (East Abutment)

ITEM	ESTIMATED QUANTITIES	
202	Portions of Structures Removed	Lump
511	Class "C" Concrete	0.20 Cu. Yd.

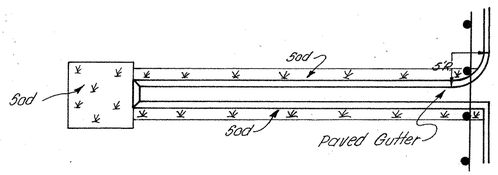


Total ESTIMATED QUANTITIES

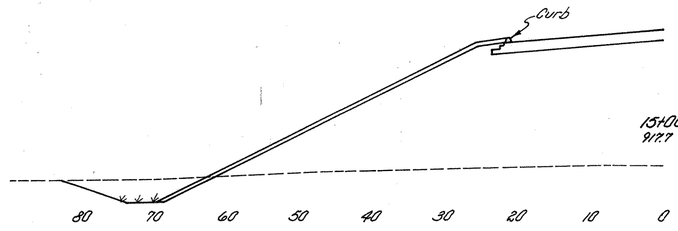
Item 202	Portions of Structures Removed	Lump
Item 511	Class "C" Concrete	0.83 Cu. Yd.

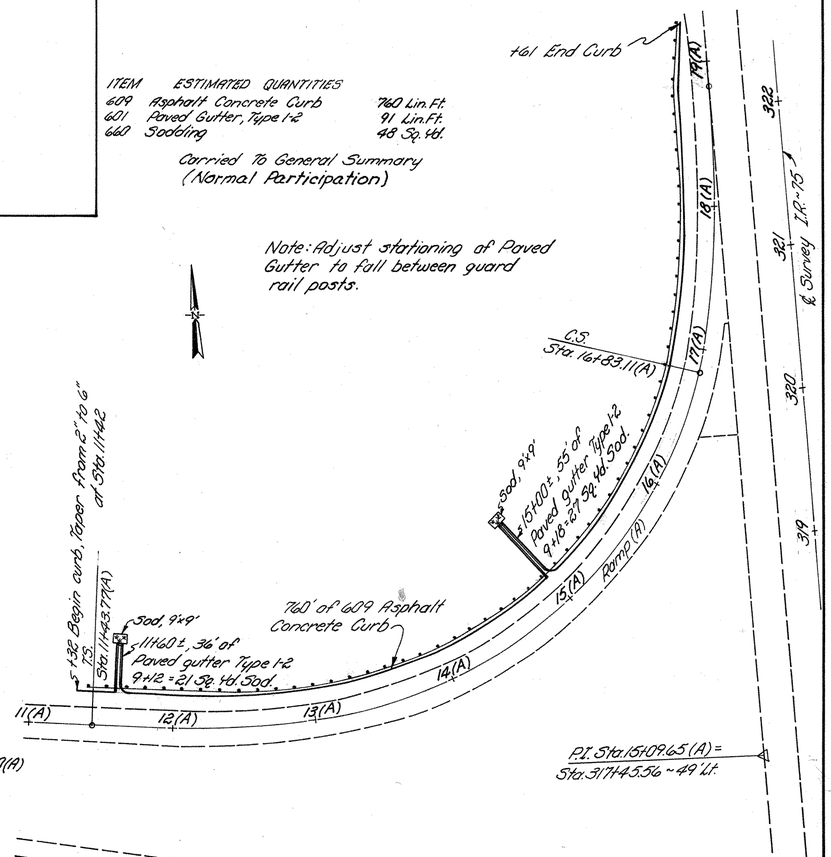
Carried To General Summary

DETAIL FOR PAVED GUTTER TYPE 1-2



NOTE: For details not shown See Standard Drawing MC-5.





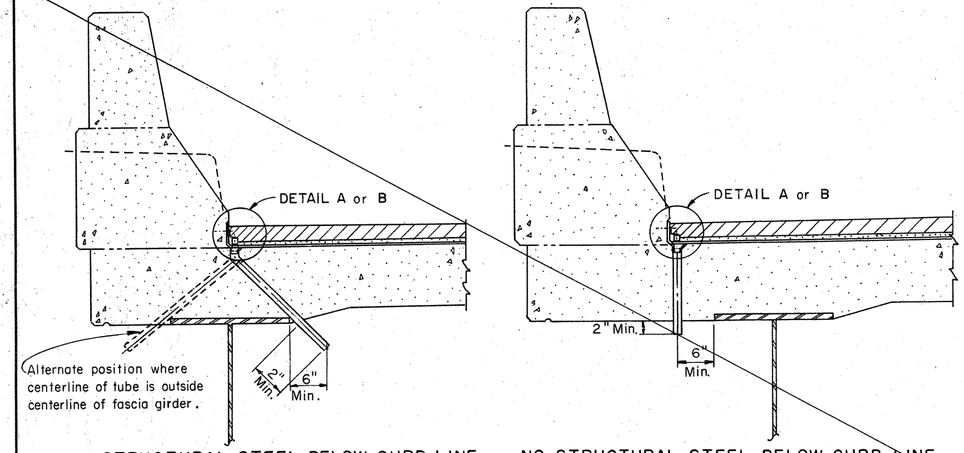
Rev. 7-5-74

DETAILS

FHWA REGION	STATE	PROJECT	
5	OHIO		

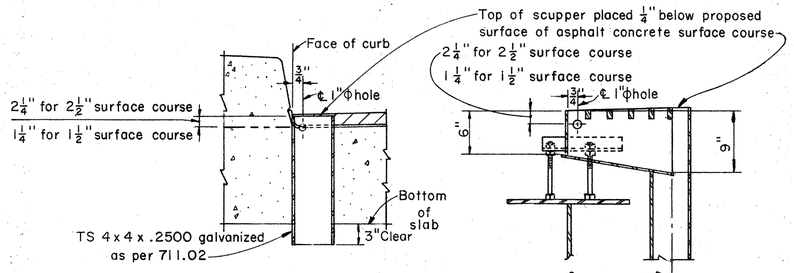
20-B
191

AUGLAIZE COUNTY
AUG.-75-4.97



STRUCTURAL STEEL BELOW CURB LINE NO STRUCTURAL STEEL BELOW CURB LINE

DRAINAGE TUBE ARRANGEMENT

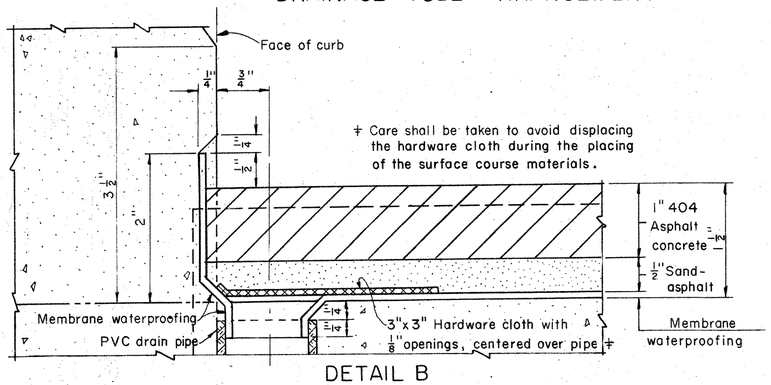


FOR SLAB BRIDGE

FOR GIRDER OR BEAM BRIDGE

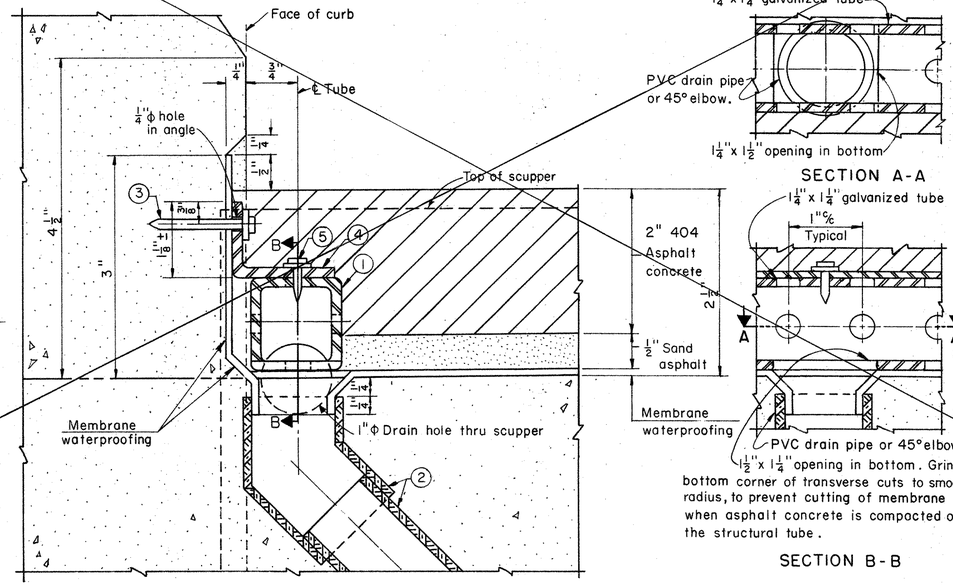
SCUPPER DETAILS

(Scupper details conform to SD-1-69 except as noted)



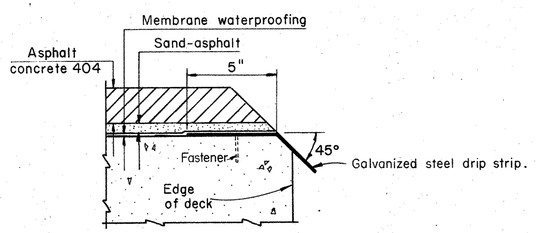
DETAIL B

SUBDRAINAGE FOR 1½" SURFACE COURSE



DETAIL A

SUBDRAINAGE FOR 2½" SURFACE COURSE



DRIP STRIP
BRIDGES WITHOUT CURBS

Galvanized Steel Drip Strip: Prior to applying deck membrane waterproofing a bent galvanized steel drip strip, 8"x0.105" shall be installed along the edges of the deck as shown. The strips shall be fastened at 3'-0"% maximum with power driven pins or # 10 galvanized expansion screws, subject to the approval of the Engineer. The strips shall be placed the full length of the deck. Where splices are required a 3"(min.) lap shall be used, with a fastener through the lap. Steel shall meet the requirements of ASTM A568 and galvanizing shall be in accordance with 711.02. Payment shall be at the contract price bid for Item Special, Sq. Ft., Galvanized steel drip strip, which shall include all materials, labor, tools and incidentals necessary to complete the item.

SUBDRAINAGE FOR ASPHALT CONCRETE SURFACE COURSE

The subdrainage system shall consist of PVC pipes and fittings and structural tubes as specified on this sheet. The pipes shall be spaced at approximately six foot intervals with a pipe placed within one foot of each expansion joint, except that they shall be relocated or extended as necessary for any discharge to clear bridge seats, structural members such as beams, diaphragms and crossbracing by at least six (6) inches. Pipes shall not be placed over or within four (4) feet of a pavement or sidewalk, within ten (10) feet of the centerline of a railroad track or along curb lines where the deck configuration does not permit water to accumulate.

Where the plans specify a two and one half (2½) inch surface course, the subdrainage shall be as shown on Detail A. The structural tube may be placed in any convenient lengths using butt joints. The price bid per linear foot for this drainage system shall include all PVC pipe and fittings, structural tubes, and all labor necessary to complete the item. The quantity will be the actual length of structural tube required. Payment will be made at the contract price for: Item 518, Lin. Ft., Subdrainage for wearing course, as per plan.

Where the plans specify a one and one half (1½) inch surface course, the subdrainage shall be as shown in Detail B. The price bid for each drain shall include the PVC pipe and fitting, the hardware cloth and all necessary labor to complete the item. Payment will be made at the contract price for: Item 518, Ea., Subdrainage for wearing course, as per plan.

If no sand-asphalt is specified, the 404 shall be either 2½" placed in two 1¼" courses or 1½" placed in one course.

(1) 1¼"x1¼" galvanized, perforated, structural tube with $\frac{11}{32}$" ± Φ holes 1" on centers on all four sides as shown. Cut 1½" ± x 1¼" opening in bottom, centered over each PVC drain pipe. The steel for the structural tube shall conform to the following:
PREGALVANIZED, ASTM A446, Grade A Steel, Galvanizing as per ASTM A525.
POSTGALVANIZED, ASTM A569 or A366, Galvanizing as per 711.02.

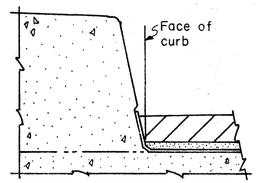
The minimum steel thickness shall be 0.105".
Any damaged galvanizing shall be repaired as per AASHO M36.

(2) 1" PVC DRAIN PIPE AND 45° ELBOW, SCHEDULE 40. Position accurately to match 1½"x1¼" openings in perforated tube. Place membrane to lap into the pipe, and seal the hole around the lip of the pipe. (This operation is important to the servicability of the membrane.) The drain pipe and elbow shall comply with the dimensions and markings of ASTM D1785 and ASTM D2466, Type I and II respectively. The elbow shall be used only where structural steel is below curb line. Where the elbow is not adequate to provide clearance between the PVC pipe and the structural steel, the elbow shall be canted as required and cut on a line ¼" below and parallel with the deck surface. The solvent cement for the pipe and fittings shall conform to ASTM D2564.

(3) 1½"x$\frac{5}{32}$"x¼" flat head drive pin and washer.
Fastening of the structural tube by methods other than shown shall be subject to approval by the Engineer. (Driving pins into bridge deck is prohibited.)

(4) L 1½"x1½"x⅛", 3" long, clipped and galvanized, or bent galvanized steel plate 2½"x3"x0.105" thick. Attach to curb at approximately 10'-0"% except near joints, where the angle shall be placed within 6" of the end of each tube section.

(5) ½"x⅛"x¼" flat head drive pin and washer driven thru angle and tube.



SHAPE OF SIDEWALK CURB

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BUREAU OF BRIDGES

DECK DRAINAGE DETAILS FOR BRIDGES WITH ASPHALT CONCRETE SURFACE COURSE

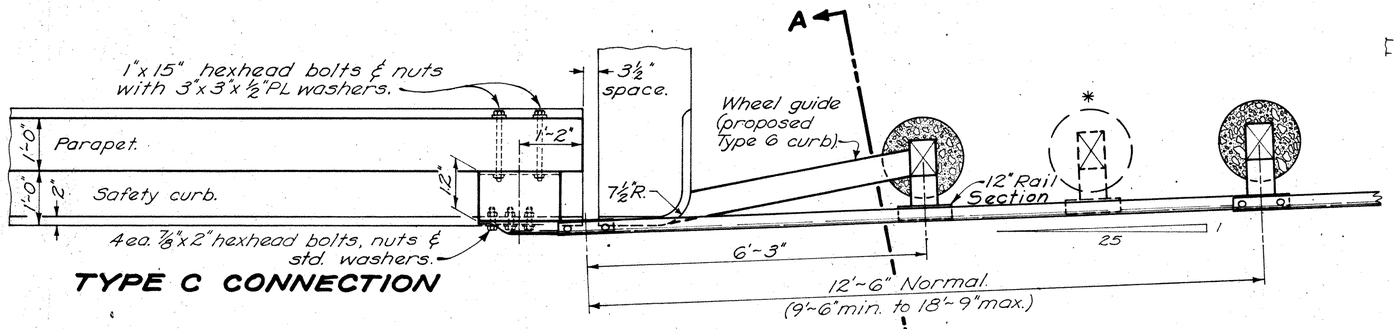
AUG.-75-4.97

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
DLM	GF JJ	——	CPD	WJJ	7-27-73	

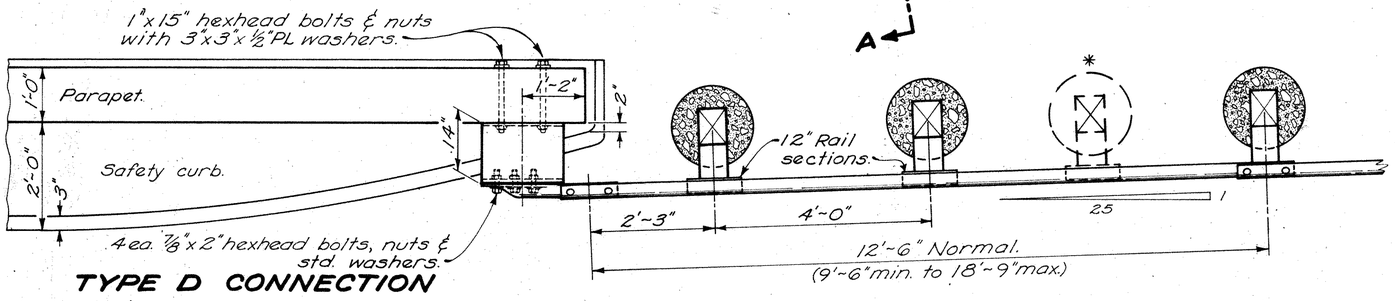
FHWA REGION	STATE	PROJECT	
5	OHIO		

2DC 191

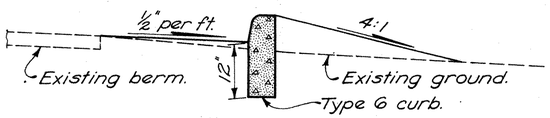
AUG-75-4.97



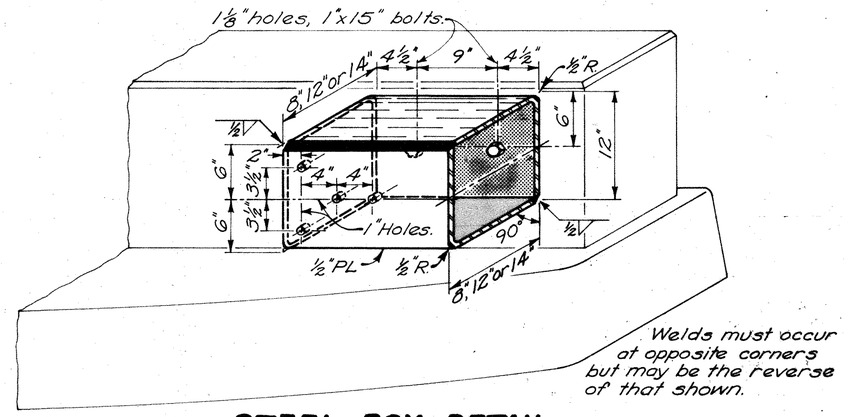
TYPE C CONNECTION



TYPE D CONNECTION



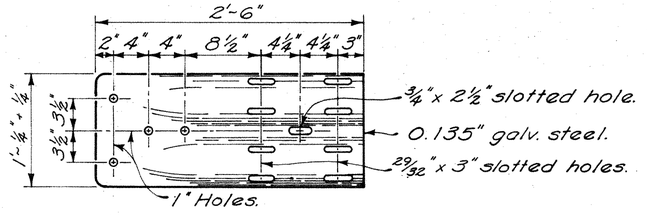
SECTION A-A



Welds must occur at opposite corners but may be the reverse of that shown.

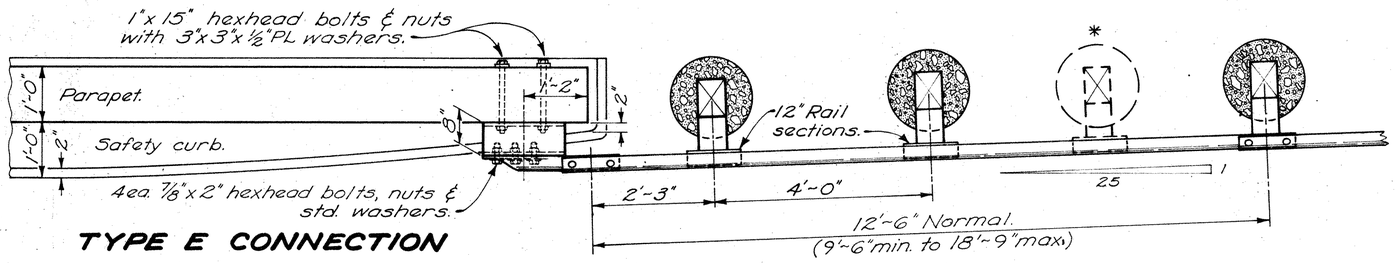
STEEL BOX DETAIL

A galv. steel box of the appropriate size (see connection type) shall be used on all approaches.

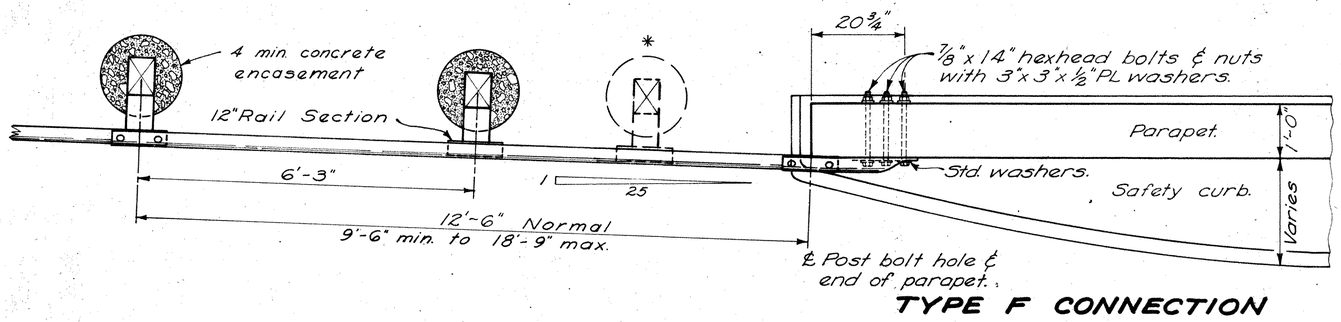


SPECIAL END SHOE

APPROACH ENDS



TYPE E CONNECTION



TYPE F CONNECTION

TRAILING END

NOTES

GENERAL: This drawing shall govern where a conflict arises. For details not shown, see Standard Drawings GR-2B & GR-4.

All steel parts shall be galvanized in accordance with 710.06 or 710.10, whichever may apply.

ANCHORS: Self-drilling anchors (of the appropriate size) may be substituted for the 1" and ⅞" hexhead bolts shown in the parapets. Anchors may be of the snap-off chuck-end type or of the flush-end type conforming to Federal Specification No. FF-S-325, Group III, Type 1(a) or (c), or Type 2.

Bolts for use with the self-drilling anchors shall be ⅞"x1½" or 1"x2" as required.

***POSTS:** Place one additional encased post halfway between adjacent posts, or post and parapet, when panel length exceeds 12'-6".

All posts shall be 6"x8" wood or W6x15.5 steel.

GUARDRAIL TERMINATION, as directed by the Engineer. To avoid locating new posts of the adjacent run of guardrail in or near old backfilled post holes **or to close existing gaps between rail and parapet, the 12'-6" normal rail section may vary as dimensioned.** The horizontal dimensions (1'-2" or 20¾") of the end shoe location may be increased to avoid existing parapet steel.

PAYMENT: Price bid for bridge terminal assemblies shall include the additional cost, in excess of normal guardrail cost, for steel posts, concrete encasement, steel boxes, special end shoes, self-drilling anchors, curbing and embankment.

Connections shall be paid for as 606 Bridge terminal assembly, Type ___.

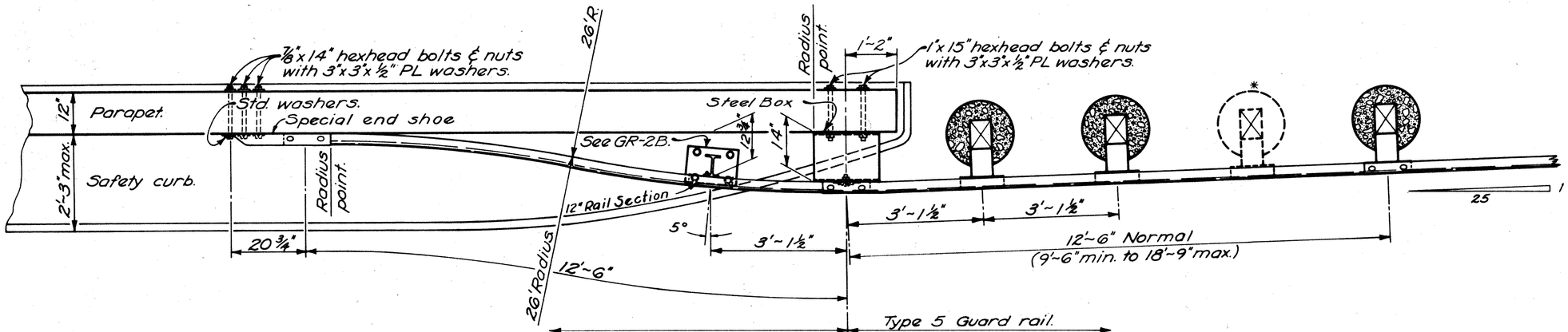
DATE
6-8-70
1-1-71
12-15-71
7-24-72

GUARDRAIL CONNECTIONS TO EXISTING BRIDGES

FHWA REGION	STATE	PROJECT	
5	OHIO		

20D
191

AUG-75-4.97

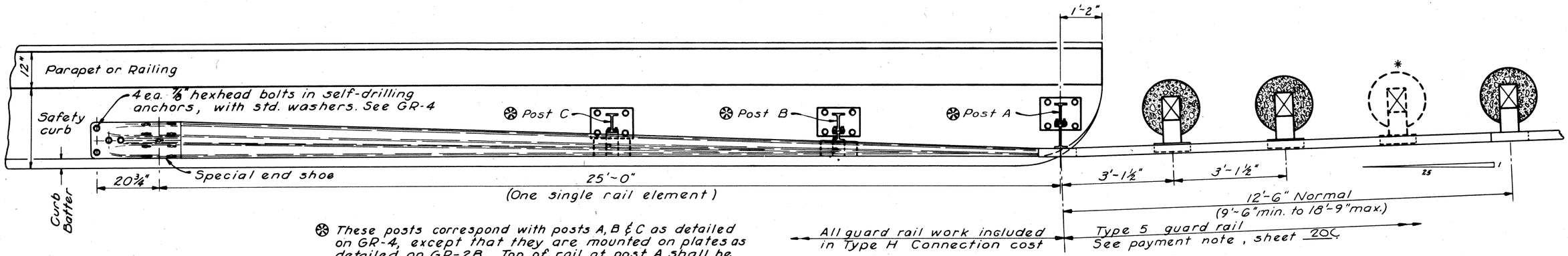


Bolts in panel adjacent to end shoe shall be tightened for expansion, as per section 606.05.

TYPE G CONNECTION

(2-Way Cross Road)

See sheet 20C for pertinent notes including *POSTS* note.



⊛ These posts correspond with posts A, B & C as detailed on GR-4, except that they are mounted on plates as detailed on GR-2B. Top of rail at post A shall be 27"± above bridge deck.

TYPE H CONNECTION

DATE
7-24-72

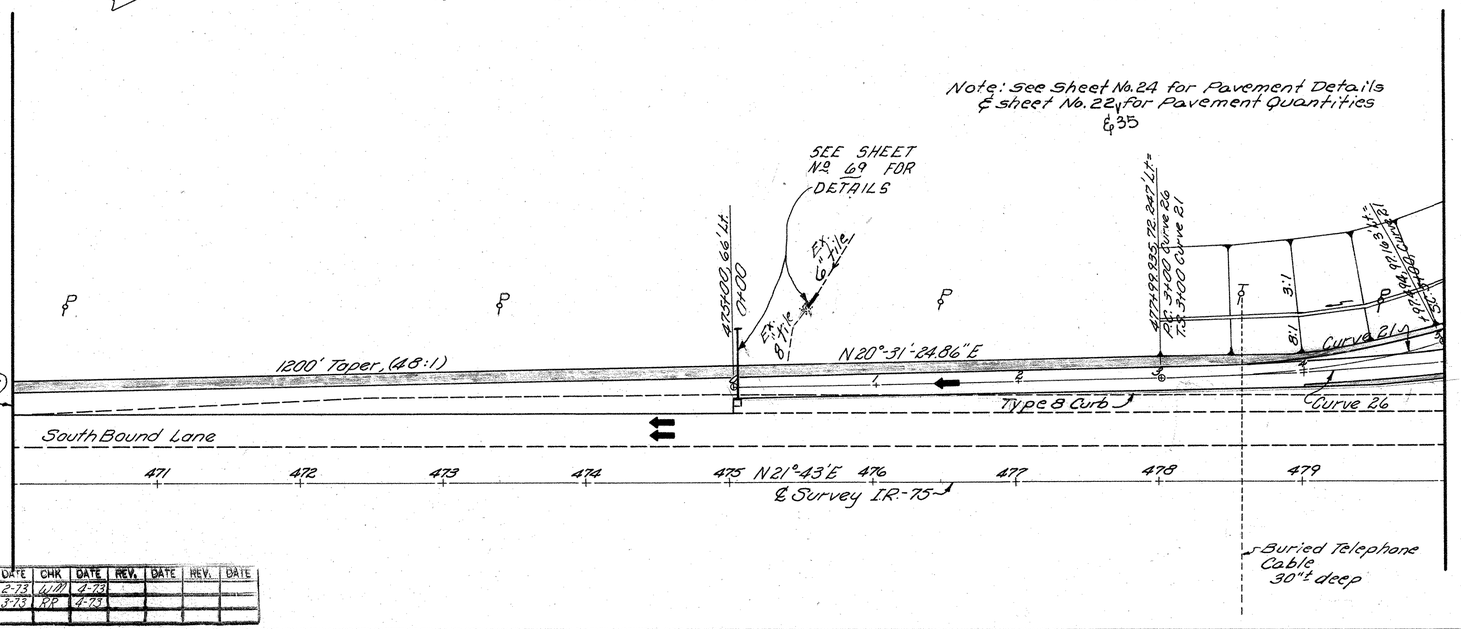
GUARDRAIL CONNECTIONS TO EXISTING BRIDGES

AUGLAIZE COUNTY
AUG-75-4.97

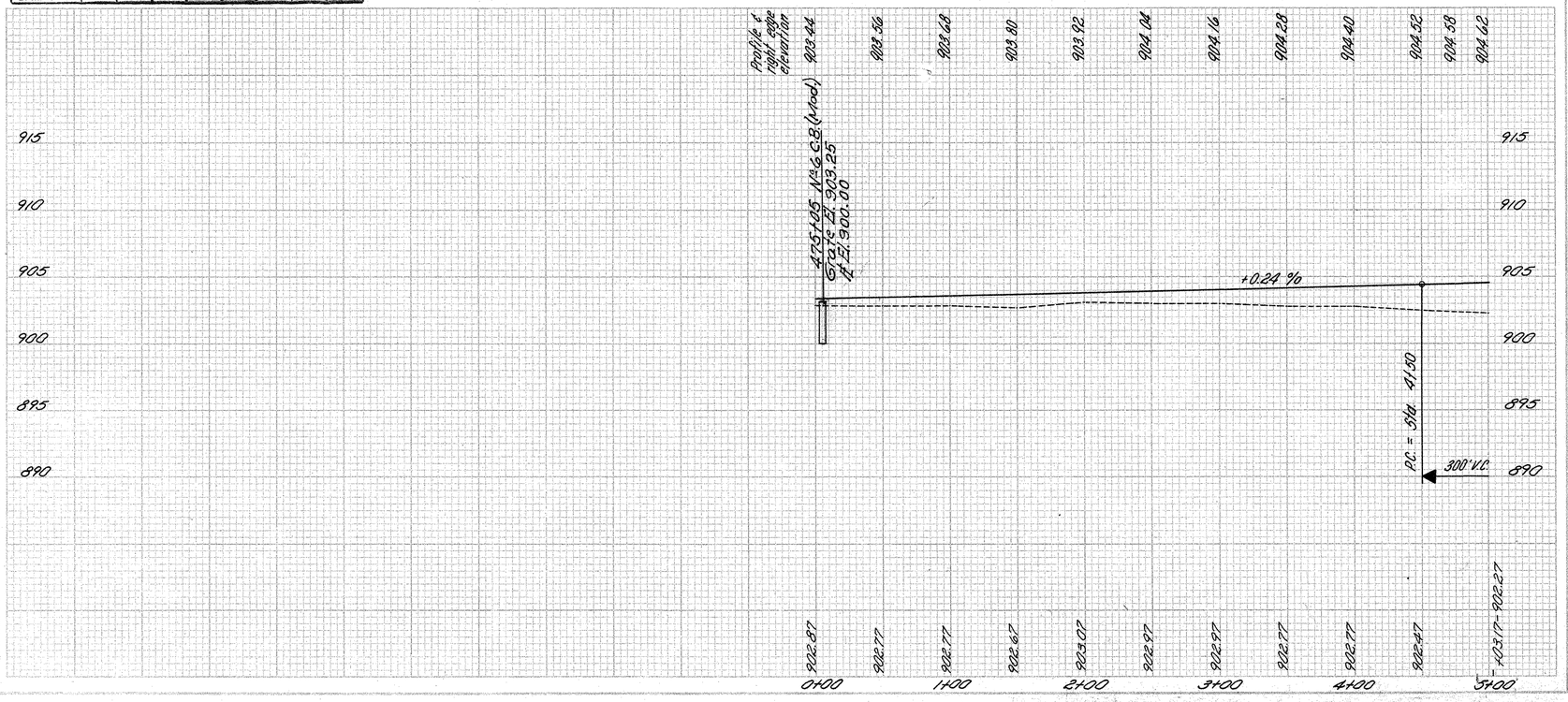
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

Curve Data ~ Curve 21
T.T.L.=244.412' Δ=48°-12'-20.1" S.Tan.=67.30'
Rc=318.31' Ec= 1.814' Xc=198.035'
Dc=18° L.C.= 67.681 Yc= 20.797'
Lc=67.809' Ls=200' P= 5.218'
Tc=34.033' L.Tan.=134.029' K= 99.672'

Curve Data ~ Curve 26
R=2864.789' Deg. 2°
L= 203.168' Δ=4°-3'-48.06"
T= 101.626'
E= 1.802'
L.C.=203.125'



PROFILE	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	JTS	2-73	WM	4-73				
GRADE	JTS	3-73	RR	4-73				
B. M. #8								



ESTIMATED QUANTITIES

SEE SHEET NO.

REF. NO.	STATION TO STATION	SIDE

PLAN & PROFILE WEST PARK TRUCK RAMP STATION 470+00 TO STATION 480+00 I.R. 75

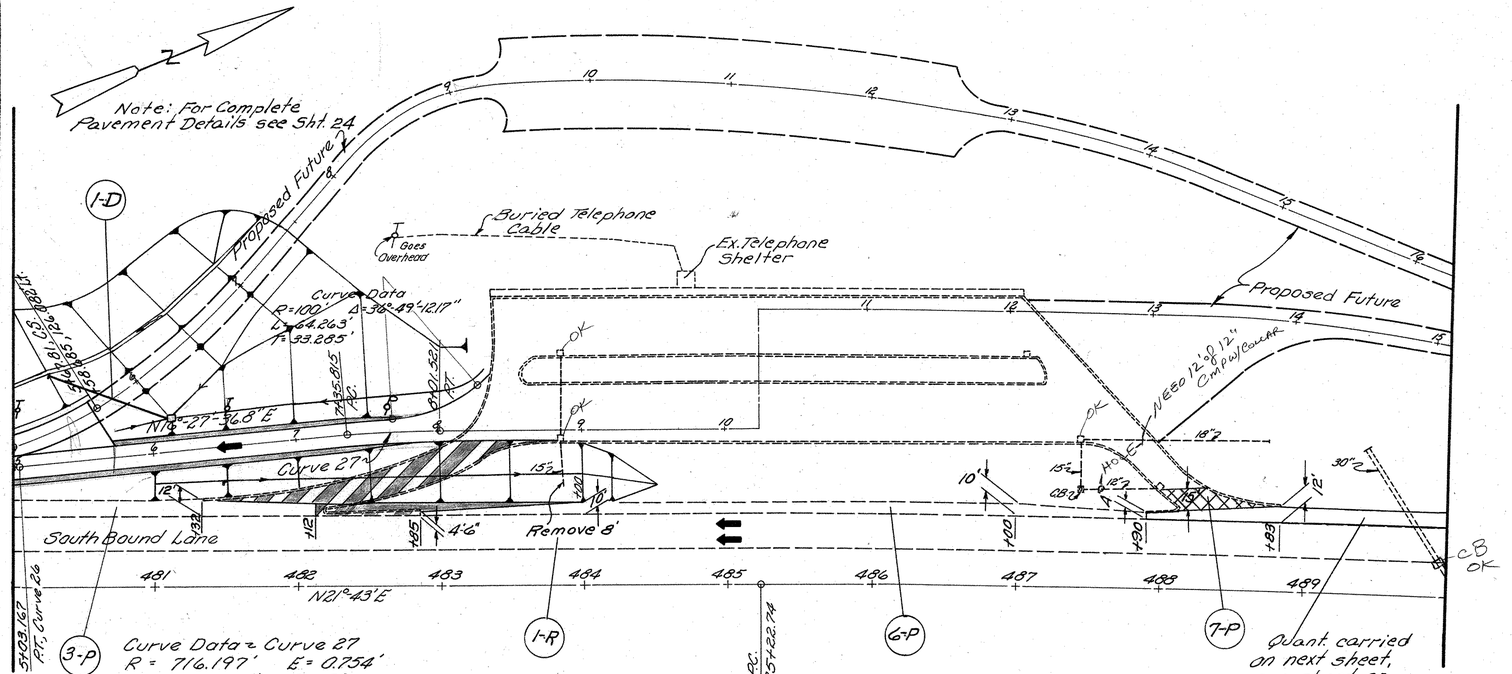
AUGLAIZE COUNTY
AUG-75-4.97

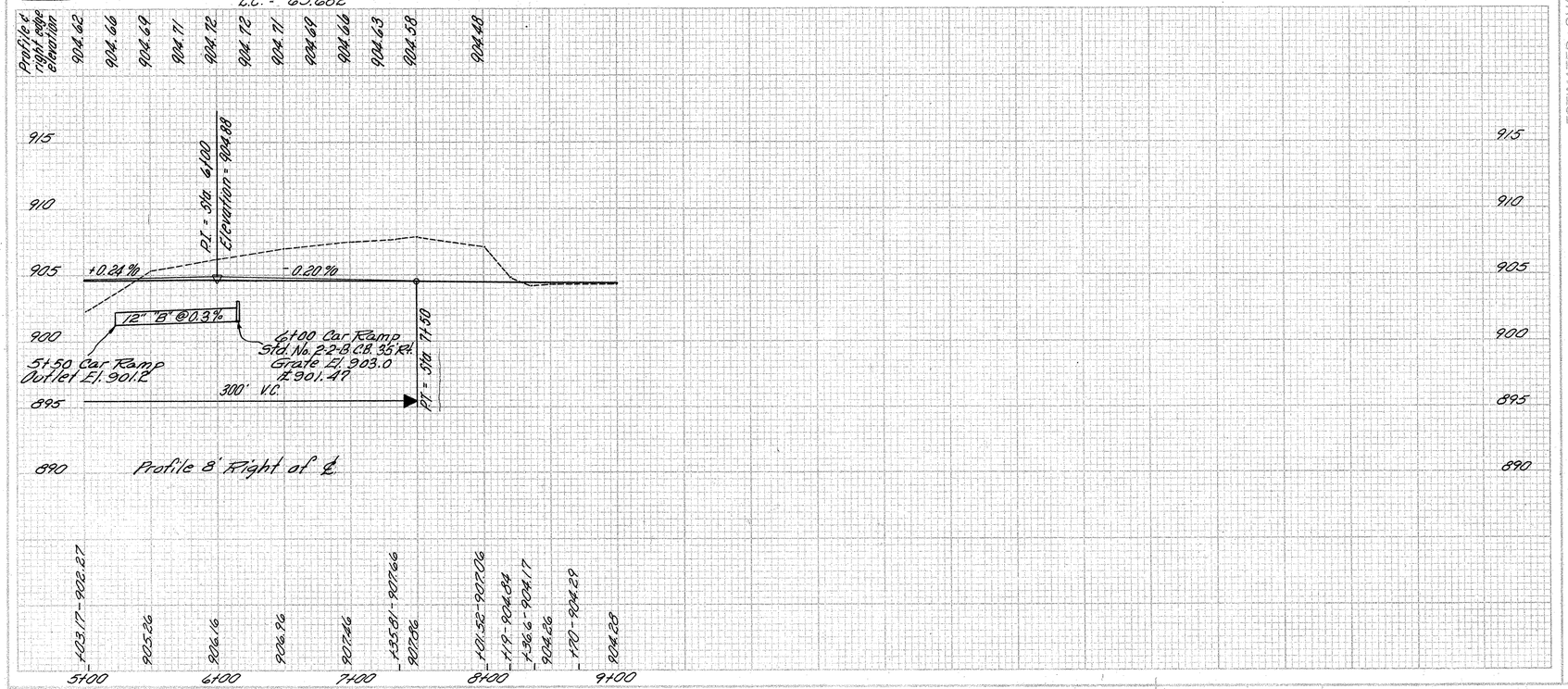
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

22/191

PLAN	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
TOPO.	JJS	2-73	WP	4-73				
GEOMETRICS	JJS	2-73	WP	4-73				
CATCH BASINS								
SUBSURFACE								
QUANTITIES								
PROF. NAV.								
DRAIN QUANT.								

PROFILE	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	JJS	2-73	WP	4-73				
GRADE	JJS	3-73	WP	4-73				
B.M.'S								





ESTIMATED QUANTITIES

REF NO.	STATION TO STATION	SIDE	603 12" Type 1, 3 Lin. Ft.	604 Std. 2-2-B Catch Basin Each	202 Pipe Removed 24" & Under Lin. Ft.	202 Curb Type 2-B Removed Lin. Ft.	203 Subgrade Compac-tion Sq. Yd.	407 Tack Coat Gal.	202 Pavt. Removal Sq. Yd.	609 Curb Type 6	7	8	602 Conc. only C.Y.	SEE SHEET NO.
1-D	5+50 C.R. to 6+00 C.R.	Lt&Rt.	90	1	8								0.2	
1-R	8+85	Rt.												
1-P	463+00 to 8+21.1	Lt.					4459							
2-P	477+00 to 480+00	Lt.					167							
3-P	478+00 to 482+12	Lt.						142						
4-P	482+12 to 494+00	Lt.					80							
5-P	Feather	Lt.						15						
6-P	482+84 to 487+90	Lt.						50						
7-P	Feather	Lt.						8						
1-RR	475+00 to 477+00	Lt.							39					
2-RR	481+32 to 483+60	Lt.							319					
1-C	0+00 to 5+00	Rt.					68			160	500			
2-C	7+67 to 8+60	Lt&Rt.					10		184					
1-CR	481+32 to 483+60	Lt.					454							
TOTALS, to Gen. Sum.			90	1	8	454	4784	215	358	184	160	500	0.2	

404 Asphalt Concrete (Secondary or AC-20)	Co.Yd.	123.84	6.92	563.54	1194.65	13.16	494	24
		4.63	2.31	20.83	20.83	1.33	50	24
		39.38	19.69					
		3.47	1.74	16.62	17.60	1.00	38	24
		2.12	1.06					
		13.77	27.68			3.97	149	
		1.16	0.58					
403 Asphalt Concrete (Base or AC-20)	Co.Yd.							24
								24
301 B.I.T. P.G.9. Base	Co.Yd.							24
								24
310 Subbase	Co.Yd.							24
409 Seal Coat Cover Aggregate	Co.Yd.							
409 Seal Coat Bit. Material	Gal.							

PLAN & PROFILE WEST PARK TRUCK RAMP STATION 480+00 TO STATION 490+00 I.R. 75

1884	144.9	607.0	1143.1	19.5	731

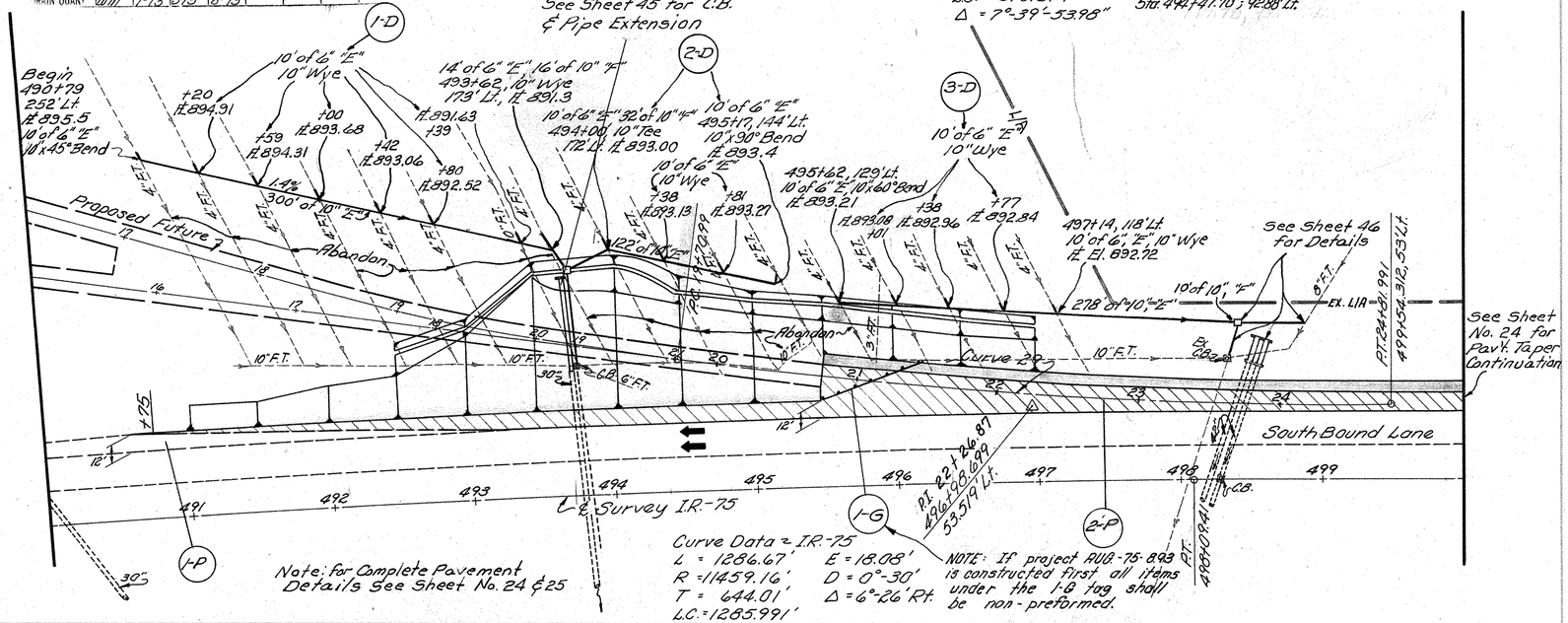
AUGLAIZE COUNTY
AUG-75-4.97

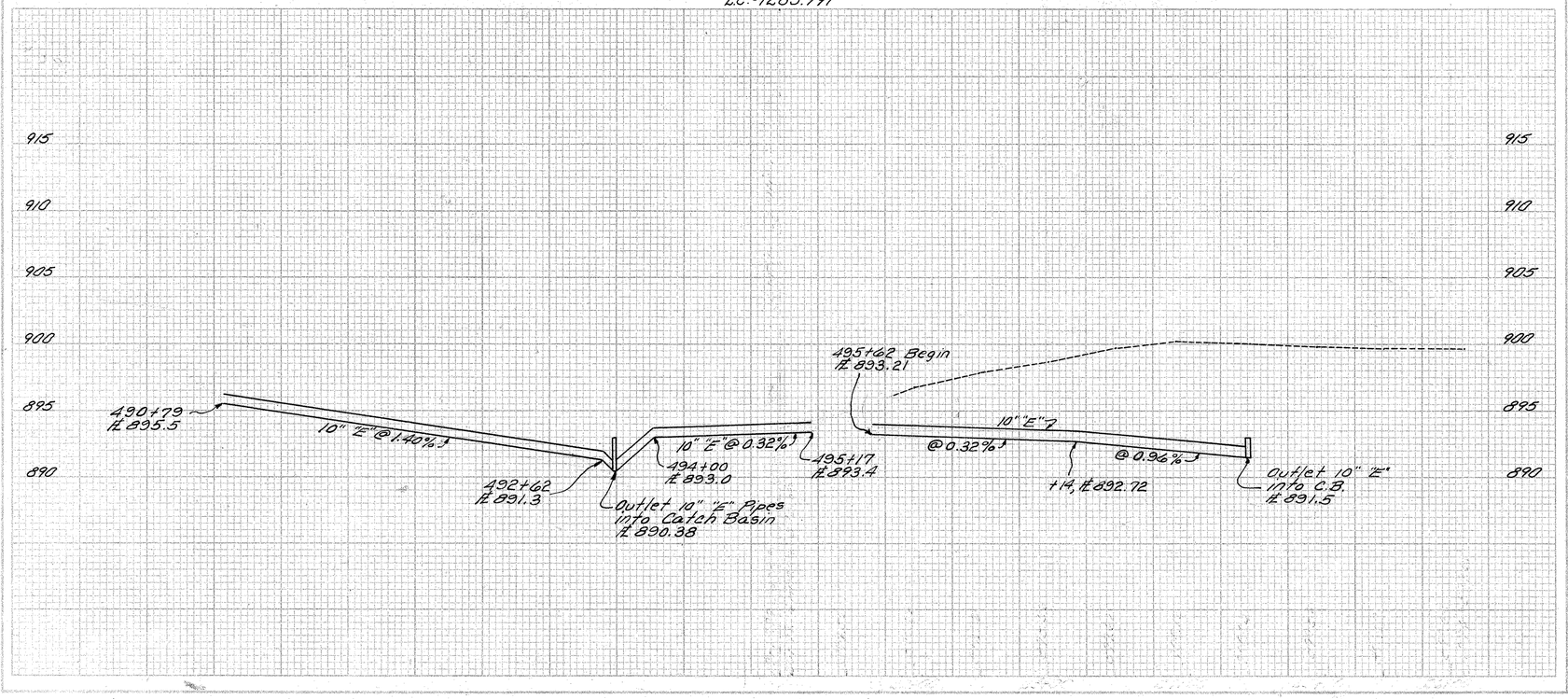
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

23
191

PLAN	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
TOPO	JTS	2-73	WM	2-73				
GEOMETRICS	CEK	3-73	RP	3-73				
DITCHES	"	"	"	"				
STORM SEWERS	"	"	"	"				
CONTROLS	"	"	"	4-73				
EARTH QUANT	RP	4-73	CEK	4-73				
WORK LIMITS	WM	5-73	JTS	6-73				
PROP. R/W	WM	6-73	JTS	7-73				
TRAIN QUANT	WM	7-73	JTS	8-73				

PROFILE	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING GRADE	JTS	2-73	WM	4-73				
B. M.'S	JTS	3-73	WM	4-73				





ESTIMATED QUANTITIES

REF NO.	STATION TO STATION	SIDE	606 Guard Rail Type 5 Ln. Ft.	203 Sub-grade Comp. Sq. Yd.	407 Tack Coat Gal.	409 Seal Coat Bit. Mat'l Gal.	603 Conduit Type "E" 6" 10"		603 Conduit Type "E" 10"		603 Conduit Type "F" 10"	
1-D	490+79 to 493+17	Lt.					84	300	16			
2-D	493+17 to 495+17	Lt.					40	122	32			
3-D	495+52 to 498+40	Lt.					50	278	10			
1-P	487+90 to 493+25	Lt.		2746	51	267						
2-P	497+75 to 503+46	Lt.										
1-G	495+47 to 496+15	Lt.	75*									
TOTALS, to Gen. Sum.			75	2746	51	267	174	700	58			

REF NO.	STATION TO STATION	SIDE	606 Guard Rail Type 5 Ln. Ft.	203 Sub-grade Comp. Sq. Yd.	407 Tack Coat Gal.	409 Seal Coat Bit. Mat'l Gal.	603 Conduit Type "E" 6" 10"		603 Conduit Type "E" 10"		603 Conduit Type "F" 10"	
1-D	490+79 to 493+17	Lt.					84	300	16			
2-D	493+17 to 495+17	Lt.					40	122	32			
3-D	495+52 to 498+40	Lt.					50	278	10			
1-P	487+90 to 493+25	Lt.		2746	51	267						
2-P	497+75 to 503+46	Lt.										
1-G	495+47 to 496+15	Lt.	75*									
TOTALS, to Gen. Sum.			75	2746	51	267	174	700	58			

SEE SHEET NO.						
Bends & Branches	409 Seal Coat Bit. Mat'l Gal.	310 Sub-base Cu. Yd.	301 Bit. Conc. Base Cu. Yd.	403 Asphalt Concrete Class "B" or HC-20 Cu. Yd.	404 Asphalt Concrete Class "B" or HC-20 Cu. Yd.	
						8"-45° Bend 7-10" Wyes 6"x6"x6" Wye 10"x6"x6" Wye 10"x10"x6" Wye 10"x10" Tee
				14.03	7.02	7.11
				26.24	38.21	347.39 679.55 7.11
						347.4 679.6 7.11
						45.2
						30.3

* Barricade

PLAN & PROFILE WEST PARK TRUCK RAMP STATION 490+00 TO STATION 500+00 I.R. 75

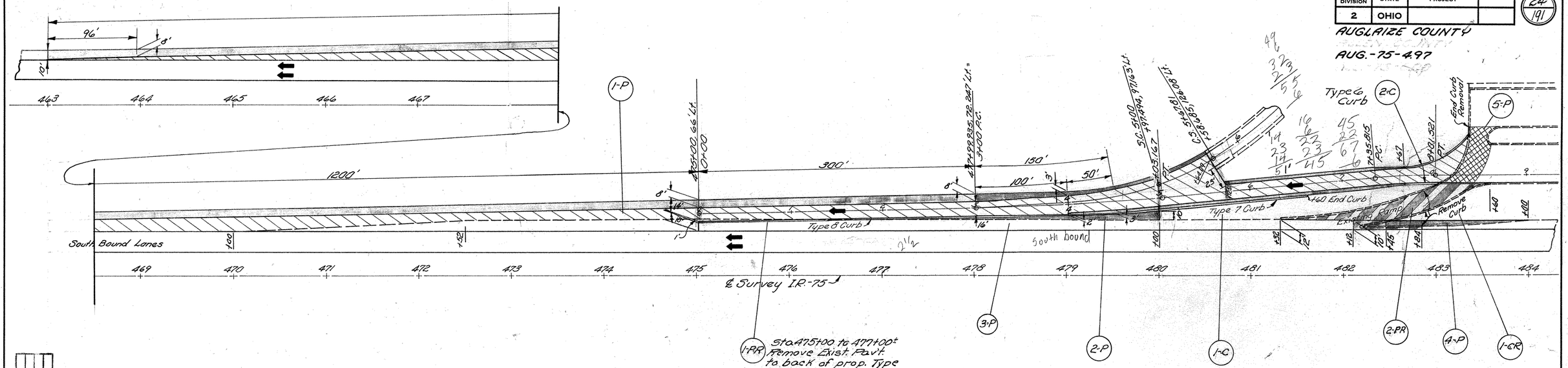
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

24
191

AUGLAIZE COUNTY

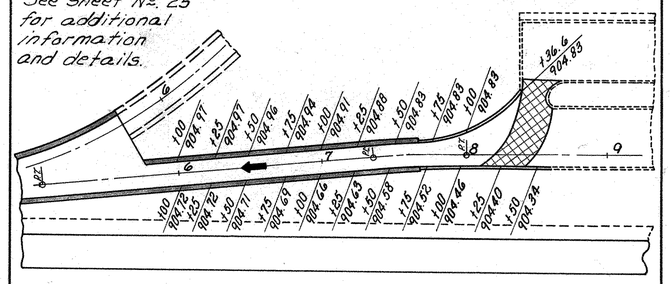
AUG.-75-4.97

BY	DATE
DETAILED	12-72
DETAILS CHECKED	12-72
DETAILS REVISED	

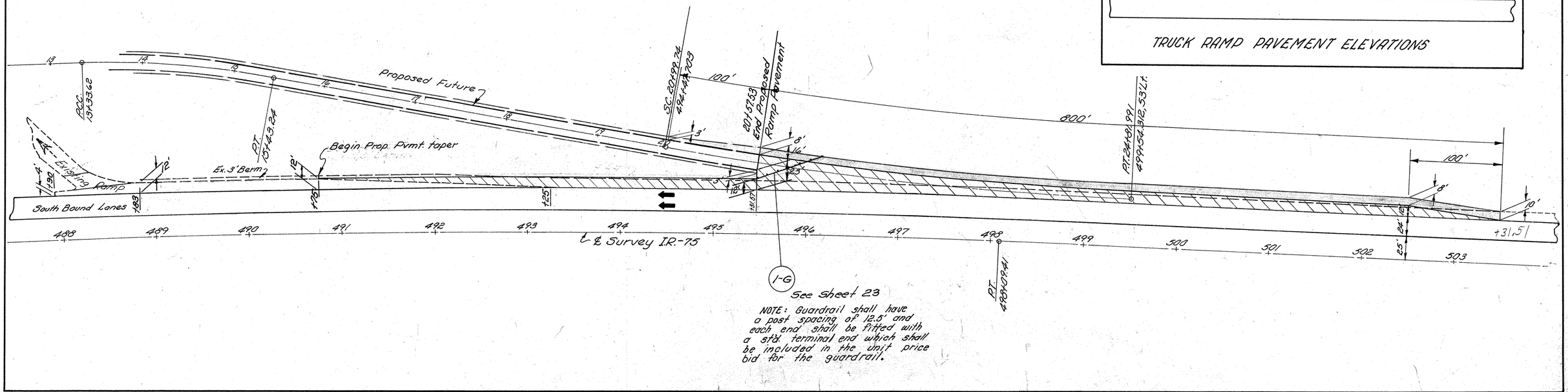


For Item No's. 1-P, 1-PR, 3-P, 2-P, 1-C, 2-C, 5-P, 2-PR 4-P & 1-CR see sheet 22 for quantities.

See Sheet No. 25 for additional information and details.



TRUCK RAMP PAVEMENT ELEVATIONS



NOTE: Guardrail shall have a post spacing of 12.5' and each end shall be fitted with a std. terminal end which shall be included in the unit price bid for the guardrail.

PT. 498+09.41

WEST PARK RAMP PAVEMENT DETAILS

	BY	DATE
DETAILED	J.T.S.	2-73
DETAILS CHECKED	R.R.	2-73
DETAILS REVISED		

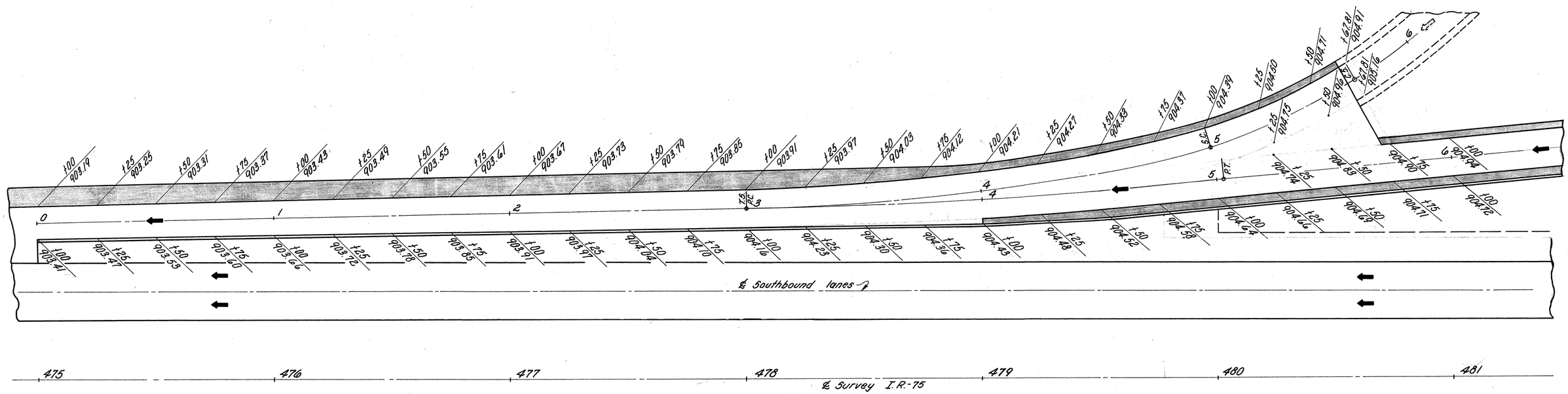
WEST PARK ENTRANCE RAMP TERMINAL ELEVATIONS

SCALE : 1"=20'

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

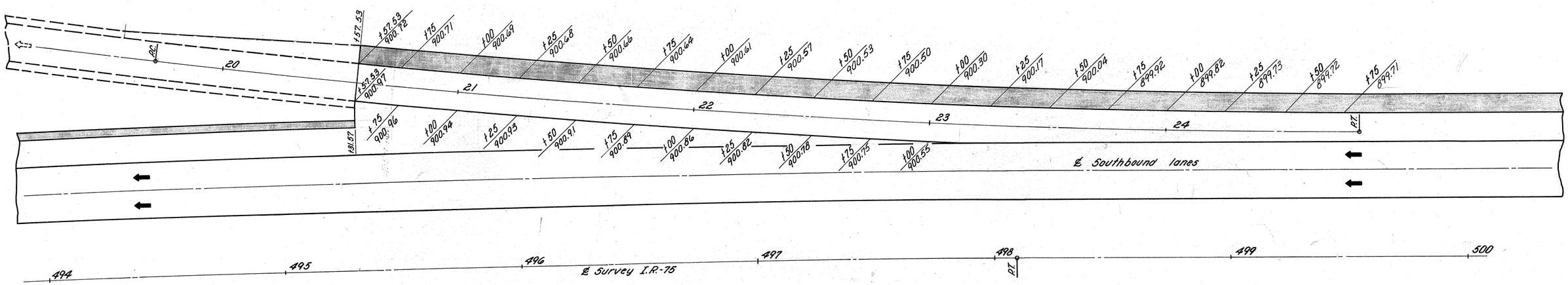
25/191

AUGLAIZE COUNTY
AUG.-75-4.97



WEST PARK EXIT RAMP TERMINAL ELEVATIONS

SCALE : 1"=20'

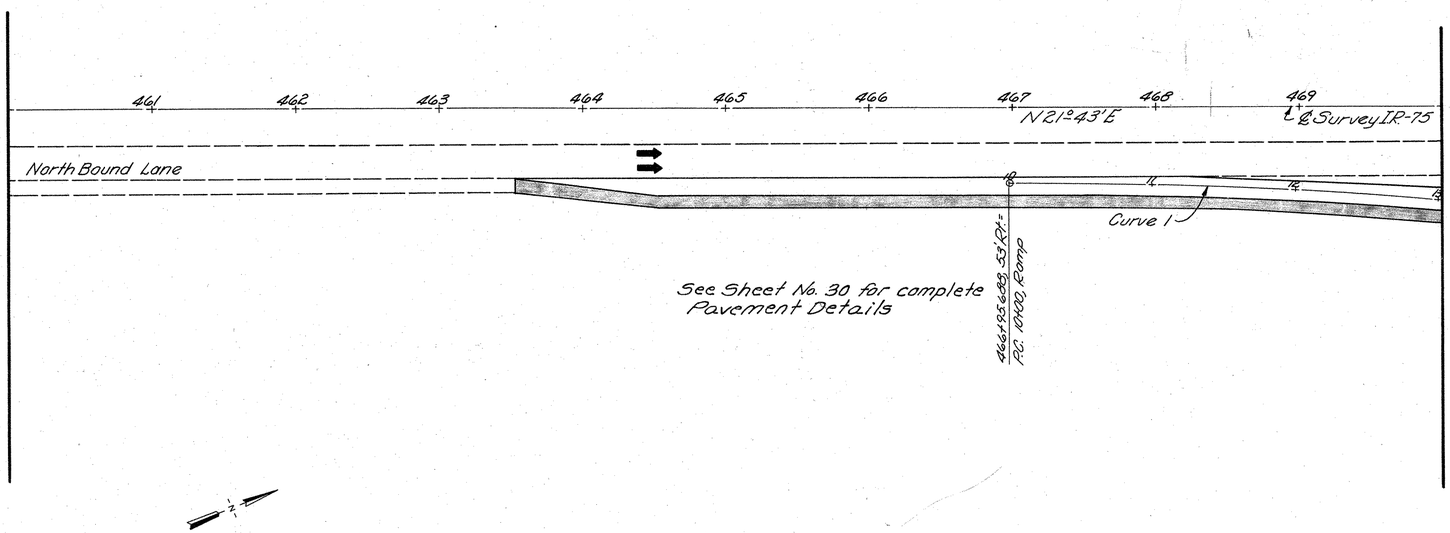


WEST PARK ENTRANCE AND EXIT RAMP TERMINAL ELEVATIONS

AUGLAIZE COUNTY
AUG-75-4.97

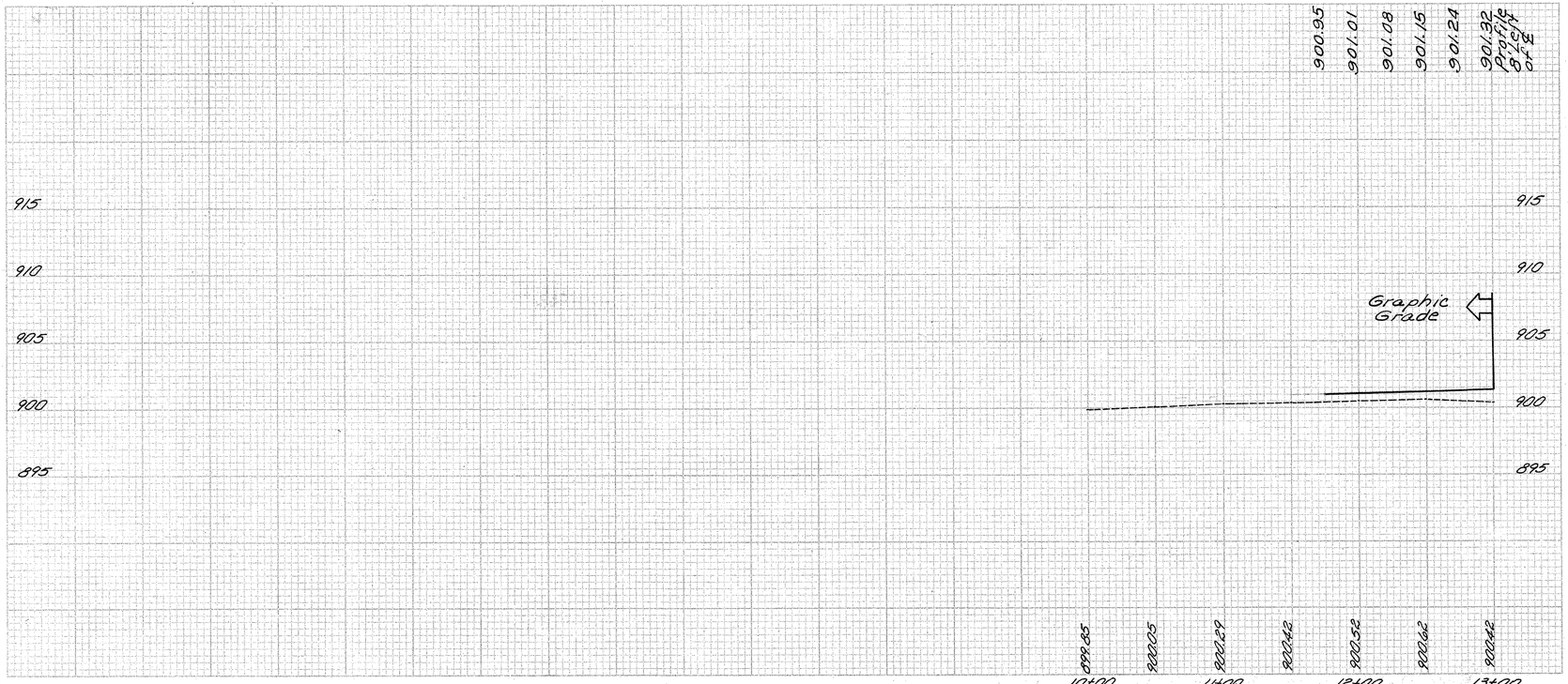
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

PLAN	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
TOPO	JTS	2-73	WM	2-73				
GEOMETRICS	CEK	3-73	RR	3-73				
DITCHES	"	"	"	"				
STORM SEWERS	"	"	"	"				
CULVERTS	"	"	"	4-73				
PAV'T QUANT	RR	4-73	CEK	4-73				
WORK LIMITS	WM	5-73	JTS	6-73				
PROP. RIW	WM	6-73	JTS	7-73				
DRAIN QUANT	WM	7-73	JTS	8-73				



Curve Data ~ Curve 1
R=3827.721' L.C.=838.998'
L=840.687' Deg.=1°29'-48.71"
T=422.041' Δ=12°-35'-02.19"
E=23.197'

PROFILE	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	JTS	2-73	WM	4-73				
GRADE	JTS	3-73	RR	4-73				
B. M.'S								



ESTIMATED QUANTITIES

SEE SHEET NO.

REF. NO. | STATION TO STATION | SIDE

TOTALS

PLAN & PROFILE EAST PARK TRUCK RAMP STA. 460+00 TO STA. 470+00 I.R. 75

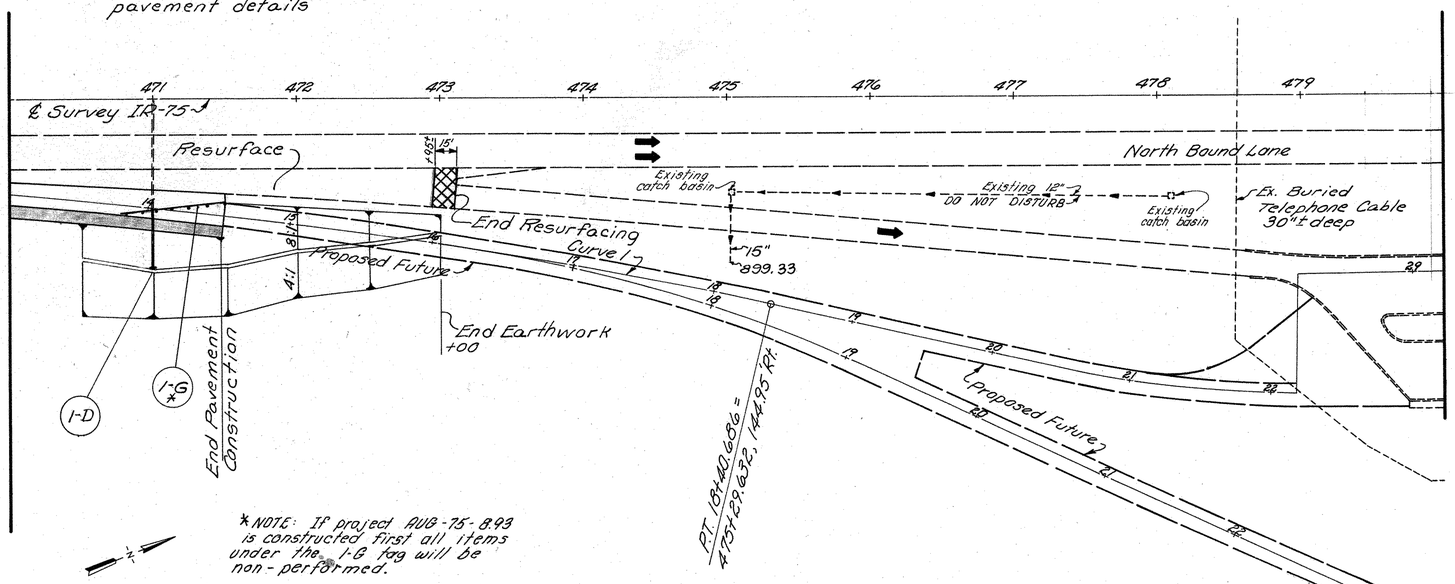
AUGLAIZE COUNTY
AUG-75-4.97

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

27
191

See sheet No. 30 for complete pavement details

PLAN	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
TOPO	JTS	2-73	WJM	2-73				
GEOMETRICS	RAP	3-73	RP	3-73				
DITCHES	"	"	"	"				
STORM SEWERS	"	"	"	"				
CULVERTS	"	"	"	"	4-73			
PAVT. ITEMS	RP	4-73	RP	4-73	4-73			
WORK LIMITS	WJM	4-73	JTS	4-73	4-73			
PROP. R/W	WJM	4-73	JTS	4-73	4-73			
DRAIN. QUANT	WJM	2-73	JTS	12-73				



* NOTE: If project AUG-75-8.93 is constructed first all items under the 1-G tag will be non-performed.

PROFILE	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	JTS	2-73	WJM	4-73				
GRADE	JTS	3-73	RP	4-73				
B. M. 'S								

* Temp. Guard Rail installation until such time that the future ramps are built.

Profile of Left ℄

901.32	901.38	901.44	901.50	901.56	901.62	901.68	454.91

915
910
905
900
895

920.42 | 920.02 | 900.02 | 899.22 | 899.18

13+00 | 14+00 | 15+00

* Barricade

ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	5 sec. Contract Pavt. Concrete Mixed and Cured (f'c=28 or 3500 psi) C.Yd.	403 Bit. Pavt. Concrete Base (f'c=28 or 3500 psi) C.Yd.	301 Bit. Pavt. Base C.Yd.	310 Sub-base C.Yd.	203 Subgrade Compaction Man Sq.Yd.	404 Asphalt Concrete (64-70-22) (f'c=28) C.Yd.	407 Tack Coat Gal.
1-P	463+50 to 471+50	Rt.	53.42	26.48	244.13	444.75	1924	.56	84
2-P	468+34 to 473+60	Rt.	22.37	11.17					130
3-P	473+10 to 485+15	Rt.	36.20	99.58					
1-D	471+00	Rt.							
1-G	470+77 to 471+50	Rt.							
TOTALS, to Gen. Sum.			112.0	137.4	244.1	444.8	1924	0.6	214

SEE SHEET NO.	202 Portions of Guard Rail Type 5 Removed Lin. Ft.	606 Guard Rail Type 5 Lin. Ft.
30		
30		
30		
100		
		75 *
	25	75
	38	Lump
	025	025
	38	Lump
	025	025

PLAN & PROFILE EAST PARK TRUCK RAMP STA. 470+00 TO STA. 480+00 I.R. 75

AUGLAIZE COUNTY
AUG-75-4.97

FED. RO. DIVISION	STATE	PROJECT	
2	OHIO		

28
191

Note: See Sheet No. 30 For Complete Pavement Details

N21°-43'E

481 482 483 484 485 486 487 488 489

℄ Survey IR-75

PC 483+22.74

32+75 Begin Type 6 Curb

Ex. Inlet

Ex. 18"

Ex. 15"

Remove

Curve 1

End Tan. 191.395'

Curve 4

N15°-24'-15.65"E

North Bound Lane

488+51.74, 74.263' Rt.

Curve 15

Curve 16

Curve Data
L=57.965'
T=29.822'
E=4.352'
L.C.=57.157'
R=100'

PC 335+37.668

PT 336+02.273

PC 33+03.369

Existing Parking Area

Ex. Inlet

Ex. Telephone Shelter

Buried Telephone Cable, 30"± deep

Future 12"

Proposed Future 2

Proposed Future Parking Area For Cars

1-C 1-CR 1-D 1-P 1-PR 1-R 2-C 2-CR 2-D 2-P

Note: Place 10' of 12" Conduit Type "F" and seal

Curve Data = Curve 15
R=716.197' Deg.=8°
L=395.03' Δ=31°-35'-10"
T=202.68'
E=28.13'

Curve Data = Curve 3
R=716.197' L.C.=78.864'
L=78.904' Deg.=8°
T=39.492' Δ=6°-18'-44.35"
E=1.088'

Curve Data = Curve 4
R=2864.789' Deg.=2°
L=393.381' Δ=7°-52'-03"
T=197.00'
E=6.765

ITEM	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
TUPO	MS	2-23	WLP	4-23				
GEOMETRICS	LTS	3-23	RP	4-23				
DITCHES								
STORM SEWERS	"	"	"	"				
CULVERTS	"	"	"	"				
PAVT QUANT	RP	4-23	WLP	4-23				
WORK LIMITS	WLP	4-23	LTS	4-23				
ROW & R/W	WLP	4-23	LTS	4-23				
DRAIN QUANT	WLP	4-23	LTS	4-23				

PROFILE	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING GRADE	LTS	2-23	WLP	4-23				
B.M.'S	LTS	3-23	RP	4-23				

Profile & left edge elevation
910.02 909.52 909.02 908.52 908.02 907.77 907.52 907.27 907.02 906.74 906.43 906.09 905.72 905.32 904.92 904.52 904.12 903.72 903.33 903.00 902.73 902.54 902.41 902.34 902.28 902.22 902.16

165 Ft. Inlet - Leave In Place
Grate El. 908.55
℄ El. 899.71

-1.00%

P.I. = Sta. 35+00
Elevation = 906.52

35+35 - 58 Ft. Std. No. 2-2B Catch Basin
Grate El. 900.30
℄ El. 892.00

-1.60%

P.C. = Sta. 34+25

P.I. = Sta. 37+50

-0.84%

18" B @ 0.80%

24" B @ 0.80

897.50'

250' V.C.

250' V.C.

P.C. = Sta. 33+75

P.T. = Sta. 34+25

P.C. = Sta. 36+25

P.T. = Sta. 37+50

Elevation = 902.52

31+25 Car Ramp
50' Rt. Outlet El. 896.09
Std. HW-4 headwall

915 910 905 900 895

32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00

ESTIMATED QUANTITIES

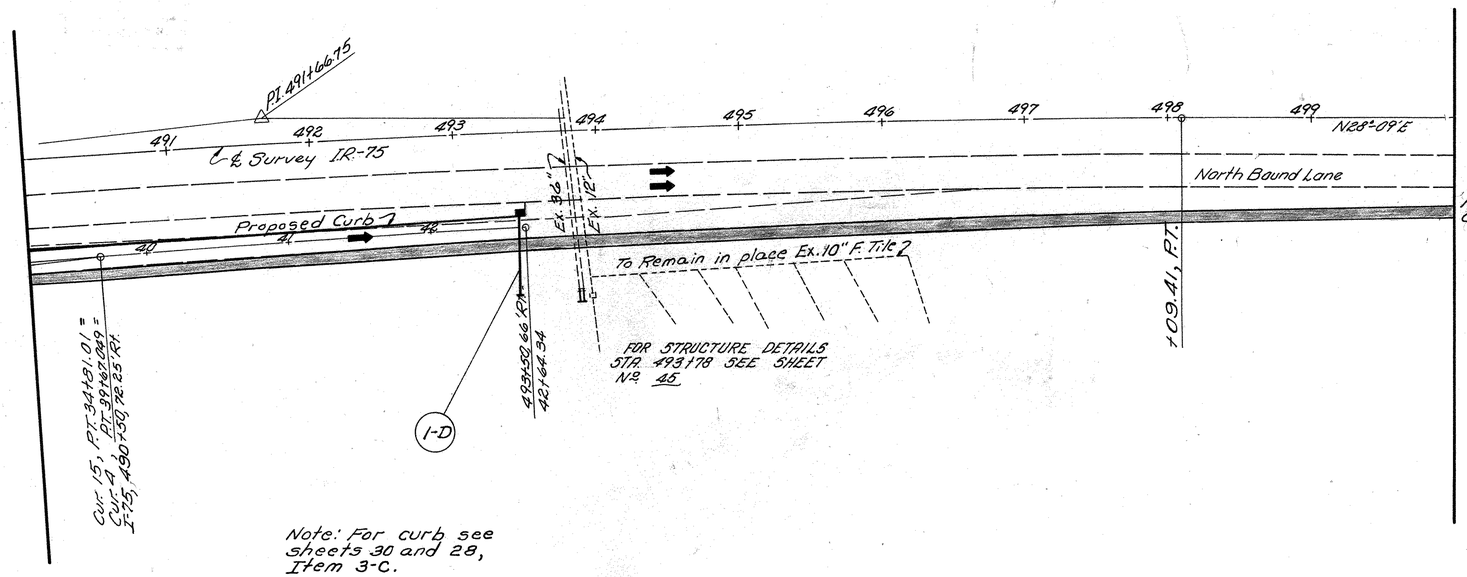
| REF. NO. | STATION TO STATION | SIDE | 404 Asphalt Conc. (Ac-20 or Pe-20) Cu.Yd. | 603 Conduit Type "B" Lin.Ft. | 604 Std. No. 2-2B Catch Basin Each | 608 Sidewalk 4" Lin.Ft. | 609 Curb, Type 6 Lin.Ft. | 407 Tack Coat Gal. | 203 Subgrade Comp. Lin.Ft. | 202 Removal of Pavt. Lin.Ft. | 202 Removal of Sidewalk Lin.Ft. | 202 Removal of Curb Lin.Ft. | 202 Removal of 24" Under Lin.Ft. | 202 Removal of Basin Each | 202 Removal of Culvert Lin.Ft. | 603 Conduit Type "F" 12" Lin.Ft. | 603 Conduit Type "F" 18" Lin.Ft. | 603 Conduit Type "F" 24" Lin.Ft. | 608 Sidewalk Detail "A" Sq.Ft. | 608 Sidewalk Detail "B" Sq.Ft. | 608 Sidewalk Detail "C" Sq.Ft. | 608 Sidewalk Detail "D" Sq.Ft. | 608 Sidewalk Detail "E" Sq.Ft. | 608 Sidewalk Detail "F" Sq.Ft. | 608 Sidewalk Detail "G" Sq.Ft. | 608 Sidewalk Detail "H" Sq.Ft. | 608 Sidewalk Detail "I" Sq.Ft. | 608 Sidewalk Detail "J" Sq.Ft. | 608 Sidewalk Detail "K" Sq.Ft. | 608 Sidewalk Detail "L" Sq.Ft. | 608 Sidewalk Detail "M" Sq.Ft. | 608 Sidewalk Detail "N" Sq.Ft. | 608 Sidewalk Detail "O" Sq.Ft. | 608 Sidewalk Detail "P" Sq.Ft. | 608 Sidewalk Detail "Q" Sq.Ft. | 608 Sidewalk Detail "R" Sq.Ft. | 608 Sidewalk Detail "S" Sq.Ft. | 608 Sidewalk Detail "T" Sq.Ft. | 608 Sidewalk Detail "U" Sq.Ft. | 608 Sidewalk Detail "V" Sq.Ft. | 608 Sidewalk Detail "W" Sq.Ft. | 608 Sidewalk Detail "X" Sq.Ft. | 608 Sidewalk Detail "Y" Sq.Ft. | 608 Sidewalk Detail "Z" Sq.Ft. | 608 Sidewalk Detail "AA" Sq.Ft. | 608 Sidewalk Detail "BB" Sq.Ft. | 608 Sidewalk Detail "CC" Sq.Ft. | 608 Sidewalk Detail "DD" Sq.Ft. | 608 Sidewalk Detail "EE" Sq.Ft. | 608 Sidewalk Detail "FF" Sq.Ft. | 608 Sidewalk Detail "GG" Sq.Ft. | 608 Sidewalk Detail "HH" Sq.Ft. | 608 Sidewalk Detail "II" Sq.Ft. | 608 Sidewalk Detail "JJ" Sq.Ft. | 608 Sidewalk Detail "KK" Sq.Ft. | 608 Sidewalk Detail "LL" Sq.Ft. | 608 Sidewalk Detail "MM" Sq.Ft. | 608 Sidewalk Detail "NN" Sq.Ft. | 608 Sidewalk Detail "OO" Sq.Ft. | 608 Sidewalk Detail "PP" Sq.Ft. | 608 Sidewalk Detail "QQ" Sq.Ft. | 608 Sidewalk Detail "RR" Sq.Ft. | 608 Sidewalk Detail "SS" Sq.Ft. | 608 Sidewalk Detail "TT" Sq.Ft. | 608 Sidewalk Detail "UU" Sq.Ft. | 608 Sidewalk Detail "VV" Sq.Ft. | 608 Sidewalk Detail "WW" Sq.Ft. | 608 Sidewalk Detail "XX" Sq.Ft. | 608 Sidewalk Detail "YY" Sq.Ft. | 608 Sidewalk Detail "ZZ" Sq.Ft. | 609 Curb, Type 6 Lin.Ft. | 609 Curb, Type 6 Lin.Ft. Mass Conc. | 609 Curb, Type 6 Lin.Ft. Mass Conc. Only | 609 Curb, Type 8 Lin.Ft. | 609 Curb, Type 8 Lin.Ft. Mass Conc. | 609 Curb, Type 8 Lin.Ft. Mass Conc. Only | 609 Curb, Type 10 Lin.Ft. | 609 Curb, Type 10 Lin.Ft. Mass Conc. | 609 Curb, Type 10 Lin.Ft. Mass Conc. Only | 609 Curb, Type 11 Lin.Ft. | 609 Curb, Type 11 Lin.Ft. Mass Conc. | 609 Curb, Type 11 Lin.Ft. Mass Conc. Only | 609 Curb, Type 12 Lin.Ft. | 609 Curb, Type 12 Lin.Ft. Mass Conc. | 609 Curb, Type 12 Lin.Ft. Mass Conc. Only | 609 Curb, Type

AUGLAIZE COUNTY

AUG.-75-4.97

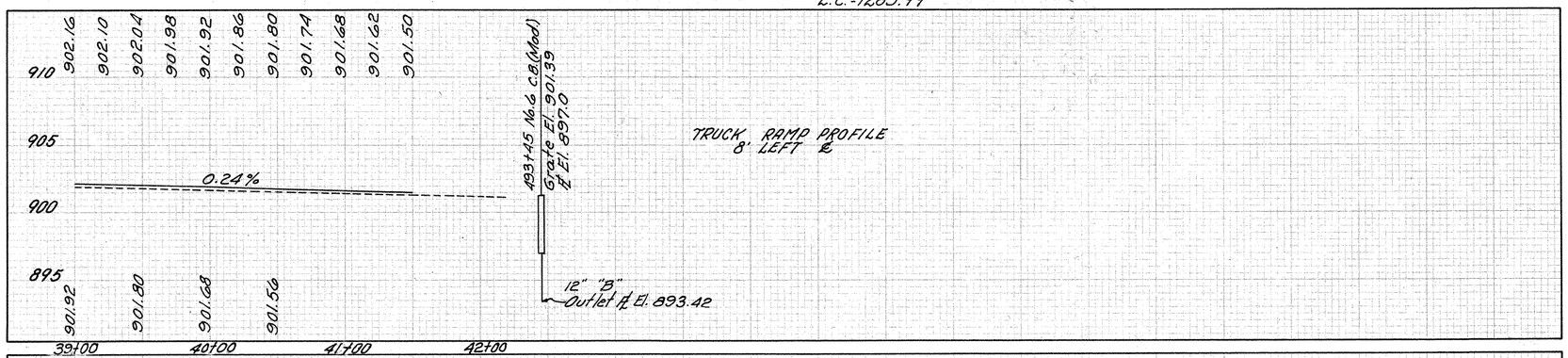
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

29/191



Note: For curb see sheets 30 and 28, Item 3-C.

Curve Data ~ I-75
R = 11459.16' Deg. 0°30'
L = 1286.67' Δ = 6°26'
T = 644.01'
E = 18.08'
L.C. = 1285.99'



ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	603 12" Conduit Masonry Type "B" Lin. Ft.	602 C.P.C. Cu. Yd.	604 Std. No. 6 Catch Basin (Mod.) Each
I.D.	493+45	Rt.	56	0.20	1
TOTALS, To Gen. Sum.			56	0.20	1

SEE SHEET NO. 103

~ PLAN & PROFILE EAST PARK TRUCK RAMP ~ STATION 490+00 TO 500+00 I.R.-75 ~

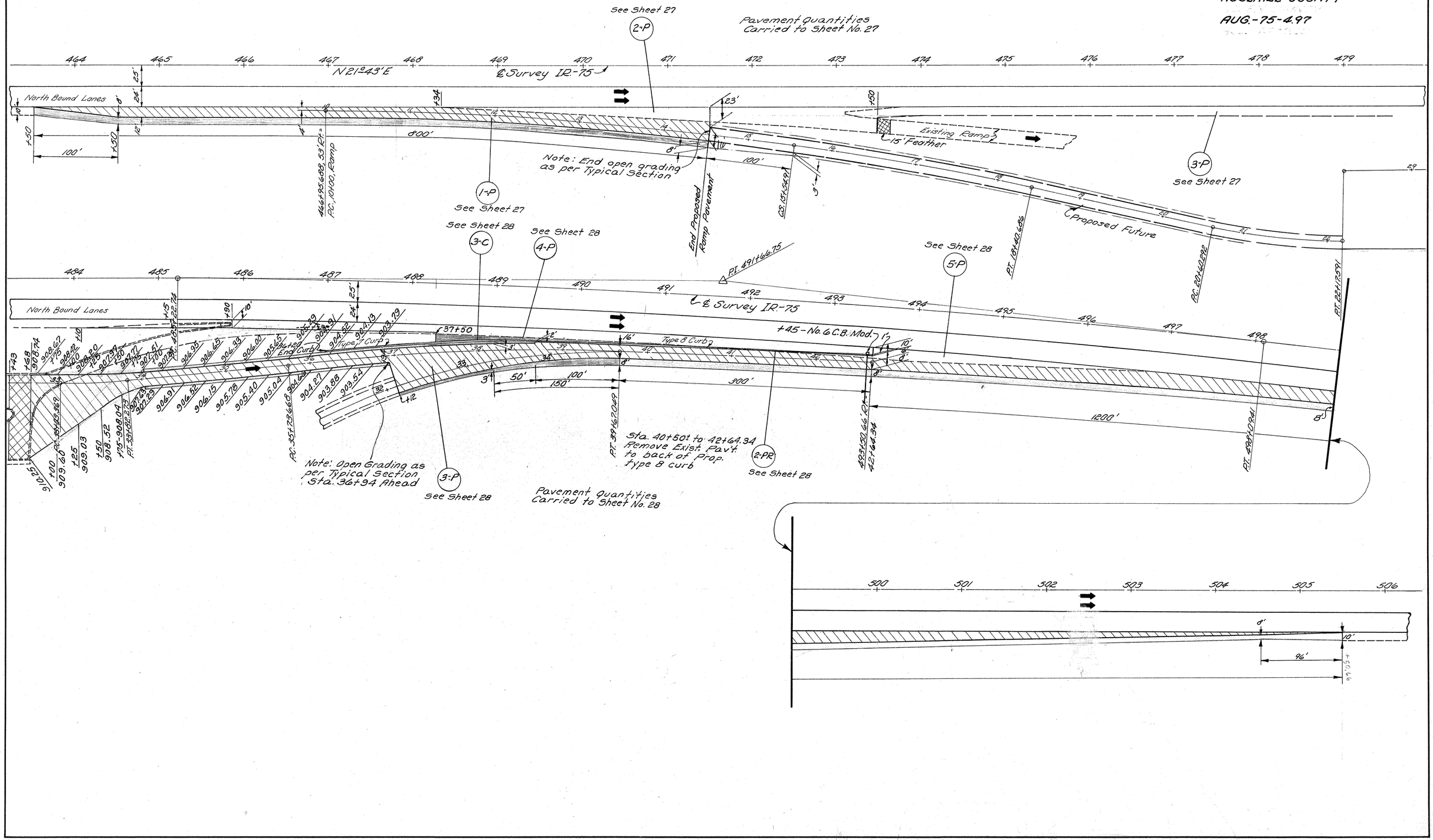
	BY	DATE
DETAILED	WM.	12-72
DETAILS CHECKED	RR	12-72
DETAILS REVISED		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG.-75-4.97

30
191



EAST PARK RAMP PAVEMENT DETAILS

	BY	DATE
DETAILED	J.T.S.	2-73
DETAILS CHECKED		
DETAILS REVISED		

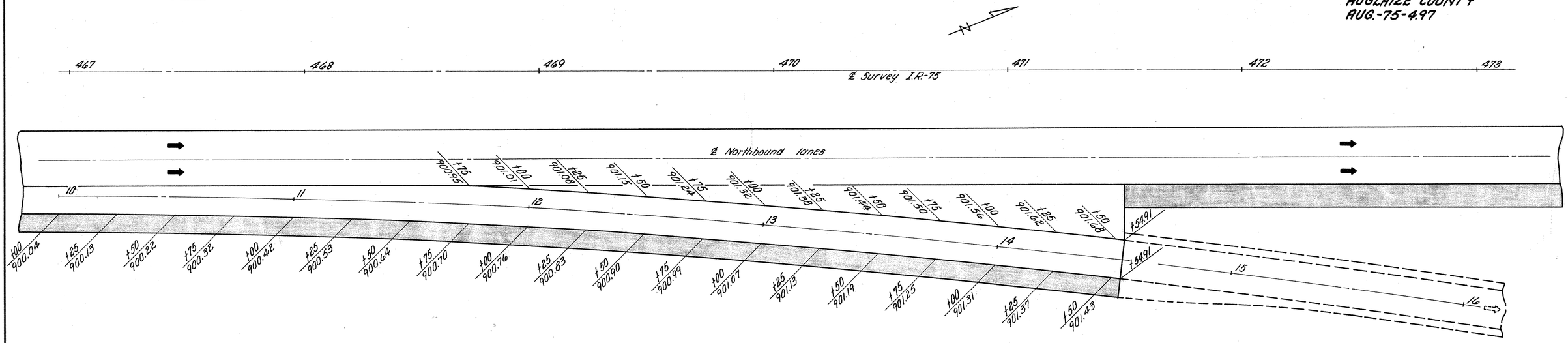
EAST PARK EXIT RAMP TERMINAL ELEVATIONS

SCALE: 1"=20'

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

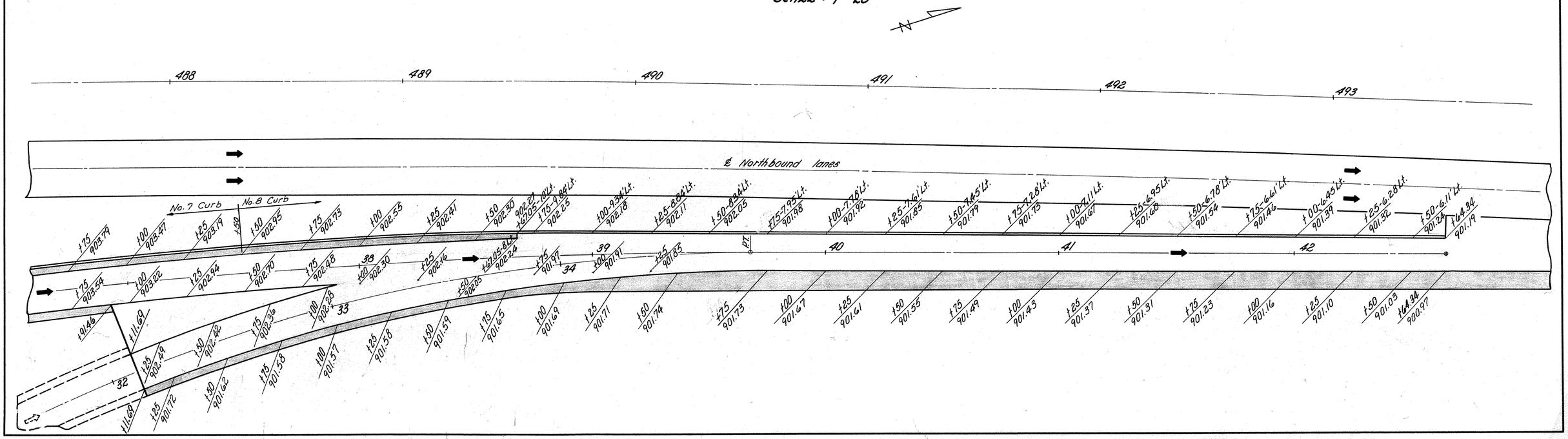
AUGLAIZE COUNTY
AUG.-75-4.97

31
191

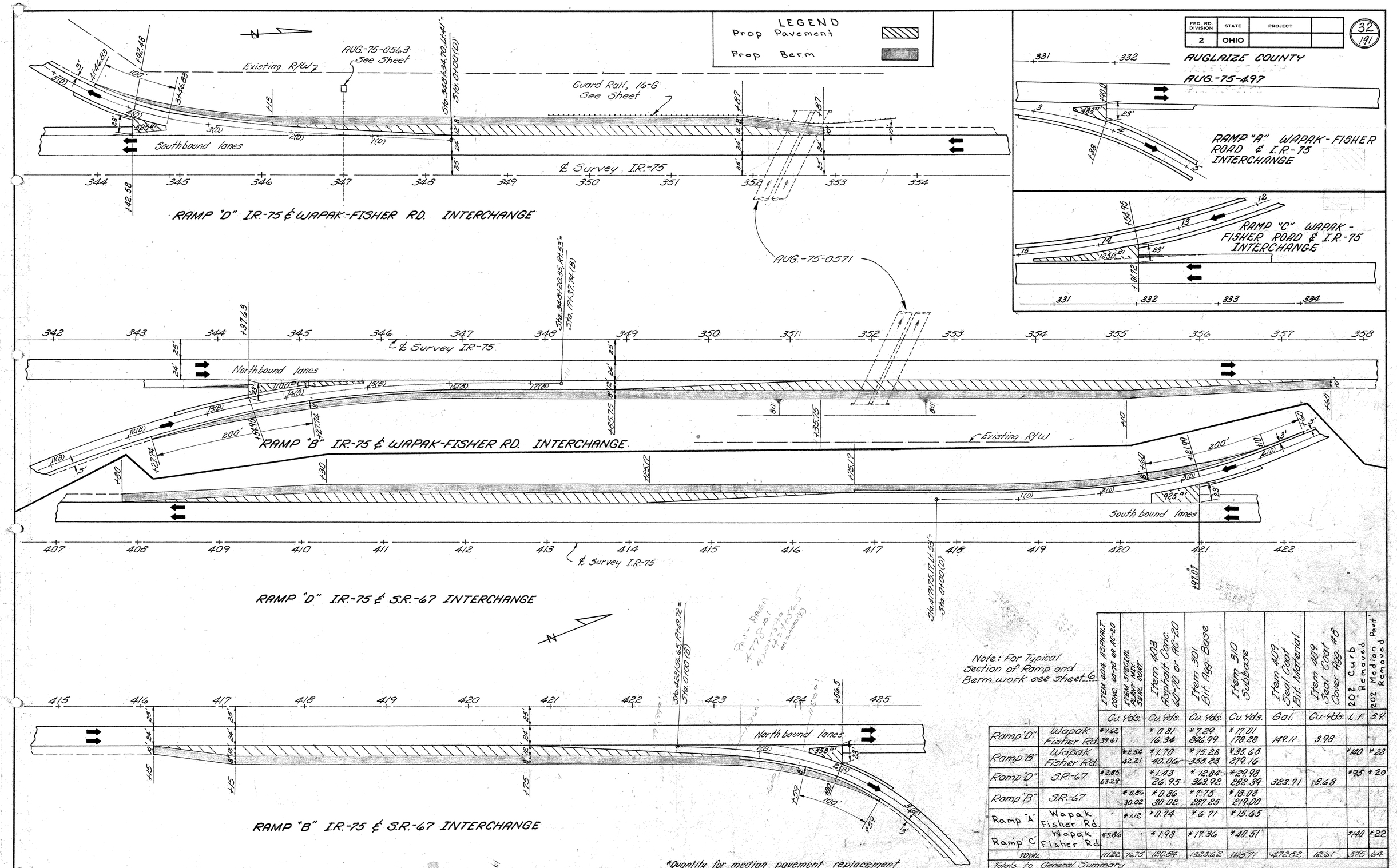


EAST PARK ENTRANCE RAMP TERMINAL ELEVATIONS

SCALE: 1"=20'



EAST PARK ENTRANCE AND EXIT RAMP TERMINAL ELEVATIONS



FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

32/191

Note: For Typical Section of Ramp and Berm work see sheet 6

		ITEM 404 ASPHALT CONC. 60-70 OR AC-20	ITEM SPECIAL PLANT MIX SEAL COAT	Item 403 Asphalt Conc. 60-70 or AC-20	Item 301 Bit. Agg. Base	Item 310 Subbase	Item 409 Seal Coat Bit. Material	Item 409 Seal Coat Cover Agg. #8	202 Curb Removed	202 Median Pavt. Removed
		Cu. Yds.		Cu. Yds.	Cu. Yds.	Cu. Yds.	Gal.	Cu. Yds.	L.F.	S.Y.
Ramp "D"	Wapak Fisher Rd.	*1.62 39.61		*0.81 16.34	*7.29 246.99	*17.01 178.28	149.11	3.98		
Ramp "B"	Wapak Fisher Rd.		*2.54 42.21	*1.70 40.06	*15.28 358.23	*35.65 279.16			*140	*22
Ramp "D"	S.R.-67	*2.85 63.28		*1.43 26.95	*12.84 363.92	*29.98 282.39	323.71	8.63	*95	*20
Ramp "B"	S.R.-67		*0.86 30.02	*0.86 30.02	*7.75 287.25	*18.08 219.00				
Ramp "A"	Wapak Fisher Rd.		*1.12	*0.74	*6.71	*15.65				
Ramp "C"	Wapak Fisher Rd.	*3.86		*1.93	*17.36	*40.51			*140	*22
TOTAL		111.22	76.75	120.84	1323.62	1115.71	472.82	12.61	375	64

Totals to General Summary

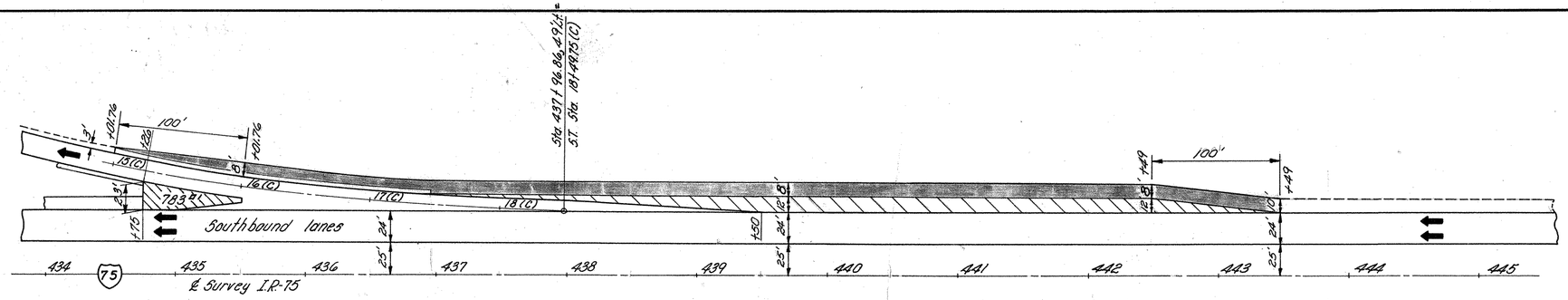
*Quantity for median pavement replacement

RAMP EXTENSIONS - RAMPS B & D WAPAK-FISHER ROAD RAMPS B & D S.R.-67

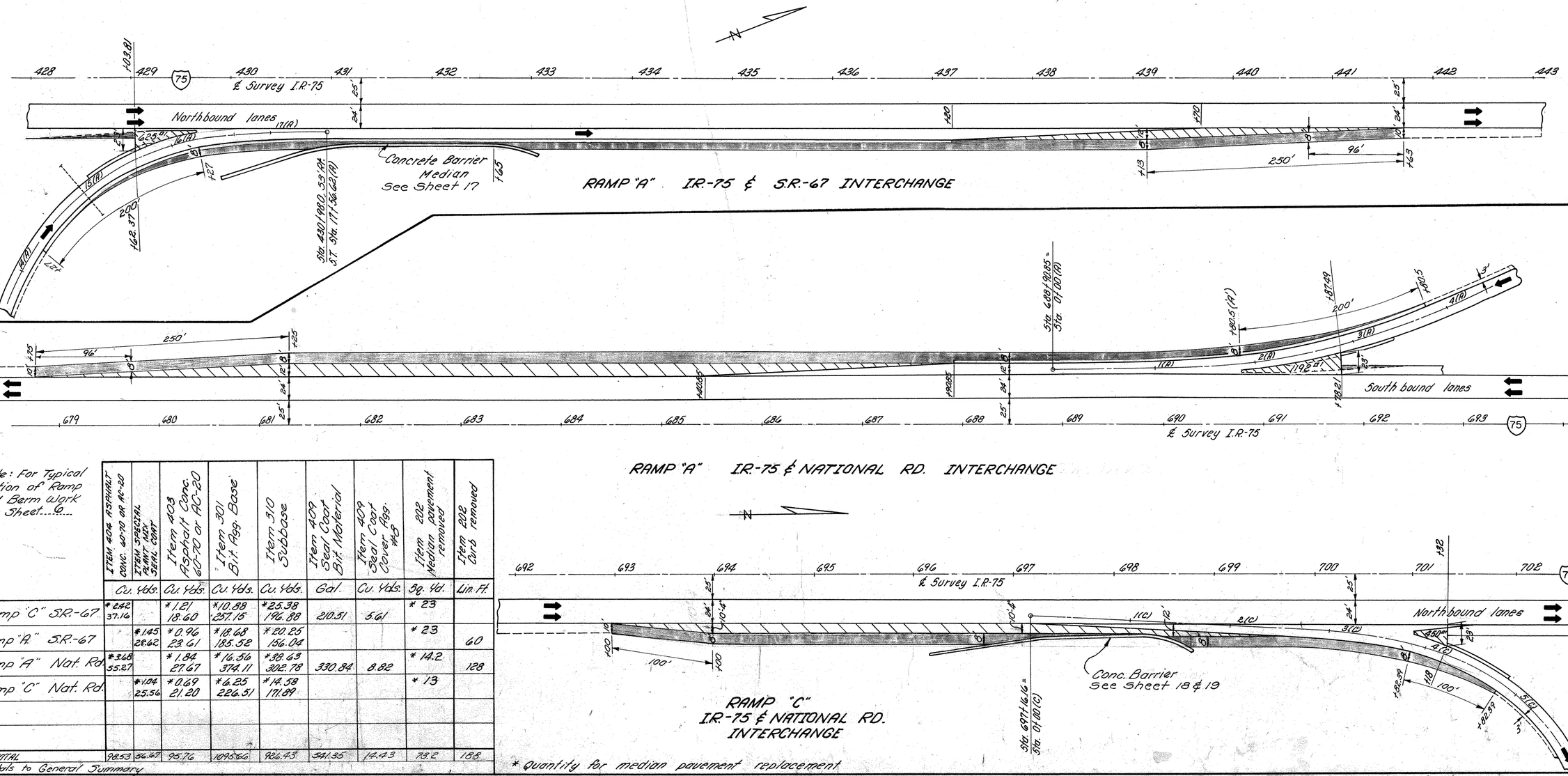
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG.-75-4.97



RAMP "C" I.R.-75 & S.R.-67 INTERCHANGE



RAMP "A" I.R.-75 & S.R.-67 INTERCHANGE

RAMP "A" I.R-75 & NATIONAL RD. INTERCHANGE

RAMP "C"
I.R.-75 & NATIONAL RD.
INTERCHANGE

Note: For Typical Section of Ramp and Berm Work see Sheet....9....

		ITEM 404 ASPHALT CONC. 40-70 OR AC-20	ITEM SPECIAL PLANT MIX SEAL COAT	Item 403 Asphalt Conc. 60-70 or AC-20	Item 301 Bit. Agg. Base	Item 310 Subbase	Item 409 Seal Coat Bit. Material	Item 409 Seal Coat Cover Agg. #8	Item 202 Median pavement removed	Item 202 Curb removed
		Cu. Yds.	Cu. Yds.	Cu. Yds.	Cu. Yds.	Cu. Yds.	Gal.	Cu. Yds.	Sq. Yd.	Lin. Ft.
4-R	Ramp "C" SR-67	* 242 37.16		* 1.21 18.60	* 10.88 257.15	* 25.38 196.88	210.51	5.61	* 23	
3-R	Ramp "A" SR-67		* 1.45 28.62	* 0.96 23.61	* 18.68 185.52	* 20.25 156.04			* 23	60
1-R	Ramp "A" Nat. Rd.	* 3.68 55.27		* 1.84 27.67	* 16.56 374.11	* 38.63 302.78	330.84	8.82	* 14.2	128
2-R	Ramp "C" Nat. Rd.		* 1.04 25.56	* 0.69 21.20	* 6.25 226.51	* 14.58 111.89			* 13	
	TOTAL	98.53	54.67	95.76	1095.66	936.43	541.35	14.43	73.2	188
	Totals to General Summary									

* Quantity for median pavement replacement

RAMP EXTENSIONS - RAMPS A & C S.R.-67 RAMPS A & C NATIONAL ROAD

	BY	DATE
DETAILED	WM	4-73
DETAILS CHECKED	RR	4-73
DETAILS REVISED		

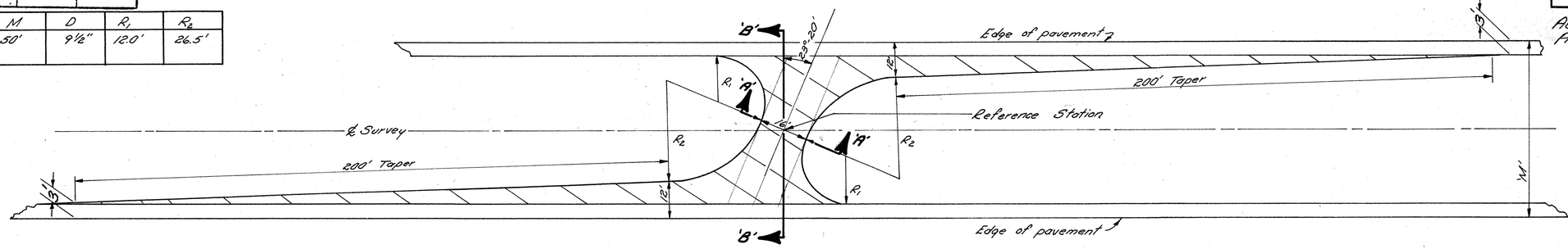
M	D	R_1	R_2
50'	9½"	12.0'	26.5'

STANDARD U-TURN MEDIAN OPENINGS

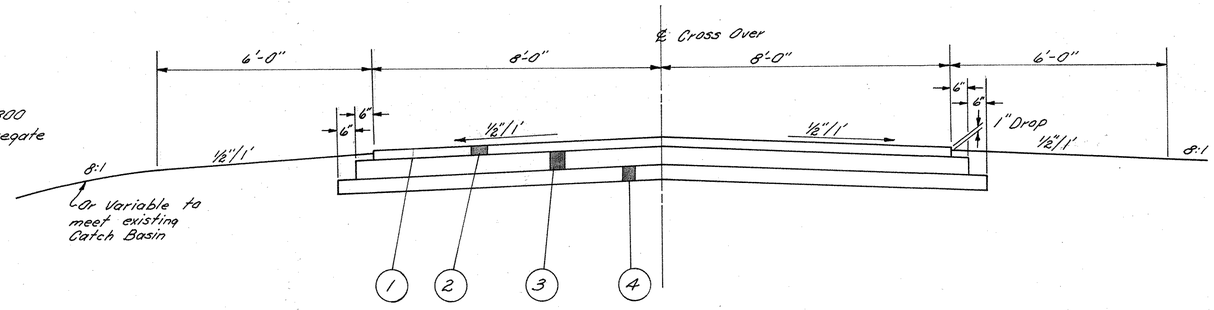
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

34
191

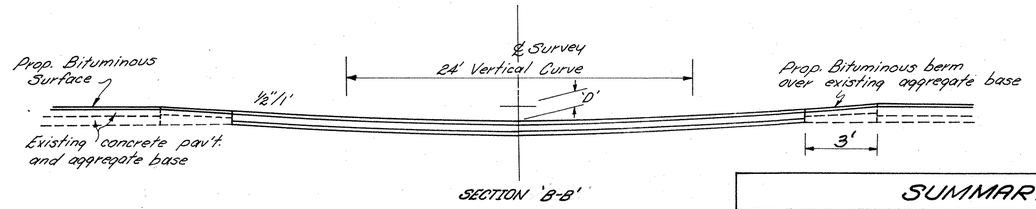
AUGLAIZE COUNTY
AUG.-75-4.97



PROPOSED MEDIAN OPENING



SECTION 'A-A'



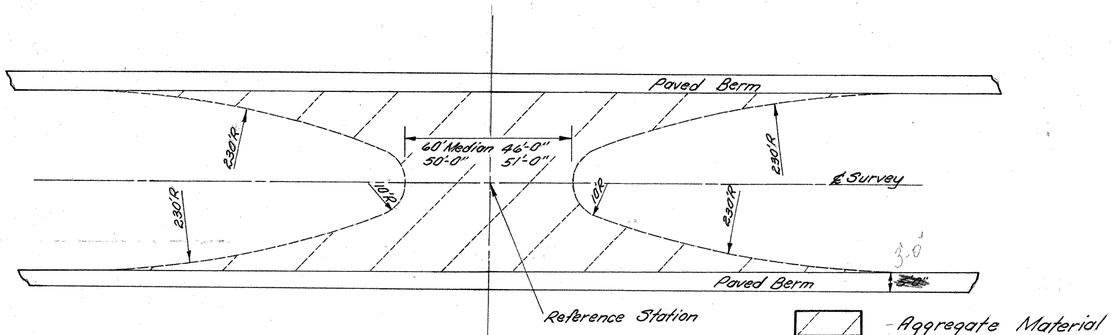
SECTION 'B-B'

~ CODE ~

1. 409 Seal Coat using 0.3 gal. of Bituminous Material. 702.04 RS-1 or RS-2 or 702.02 MC-800 or MC-3000 and 0.008 Cu. yds. of N°8 Aggregate per. sq. yd.
2. 3" of 301 Bituminous Aggregate Base
3. 6" of 304 Aggregate Base
4. 4½" of 310 Subbase

Notes:
The aggregate material of the existing gravel median openings shall be removed to the limits shown in Detail "B". The removal shall be included in the unit bid price for Item 203 Excavation not including embankment construction. After removal the areas not occupied by the proposed openings shall be backfilled with suitable topsoil and seeded.

All work, equipment, and incidentals necessary to complete the above Items shall be included in the price bid for each. The quantities for Item 203 Excavation not including Emb.; Item 203 Embankment; and Item 659 Seeding and Mulching as shown in the summary shall be used for final payment.



EXISTING OPENINGS
(To Be Removed)
Detail 'B'

SUMMARY OF QUANTITIES

PROPOSED OPENING

Station	409 Seal Coat Bituminous Material	409 Seal Coat RS-2 Cover Aggregate	301 Bituminous Aggregate Base	304 Aggregate Base	310 Subbase	203 Excavation not including Embankment	203 Embankment	659 Seeding and Mulching					
	Gal.	Cu.Yd.	Cu.Yd.	Cu.Yd.	Cu.Yd.	Cu.Yd.	Cu.Yd.	Sq.Yd.					
877+00	982.9	26.21	15.17	68.57	57.35	300.11	387.63	1116.34					
454+00	982.9	26.21	15.17	68.57	57.35	300.11	387.63	1116.34					
559+00	982.9	26.21	15.17	68.57	57.35	300.11	387.63	1116.34					
654+00	982.9	26.21	15.17	68.57	57.35	300.11	387.63	1116.34					
Totals	3931.6	104.84	60.68	274	229	1200	1551	4465					

Quantities carried to General Summary

~ DETAILS FOR U-TURN MEDIAN OPENING ~

	BY	DATE
DETAILED	JTS	6-73
DETAILS CHECKED	RP	9-73
DETAILS REVISED		

STRUCTURE DETAILS SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

35
191

AUGLAIZE COUNTY

AUG.-75-4.97

| ℄ STATION | STRUCTURE NUMBER | SIDE | % GRADE OF PROPOSED CONDUIT | 202 PIPE REMOVED 24" & UNDER LIN. FT. | 202 PIPE REMOVED OVER 24" LIN. FT. | 202 PIPE REMOVED FOR RE-USE LIN. FT. | 202 CATCH BASIN REMOVED EACH | 202 CATCH BASIN ABANDONED EACH | 202 PORTIONS OF STRUCTURES REMOVED LUMP | 203 EXCAVATION (not including emb. construction) CU. YD. | 203 EMBANKMENT CU. YD. | 659 SEEDING AND MULCHING SQ. YD. | 601 ROCK CHANNEL PROT. TYPE "B" CU. YD. | 601 RIPRAP 6" Reinf. concrete slab SQ. YD. | 660 SODDING SQ. YD. | 602 CONCRETE MASONRY CU. YD. | 603 CONDUIT TYPE "A" SEC.-707.03 15"-10" 9"-10" LIN. FT. | 603 RECONSTR. CONDUIT TYPE "A" LIN. FT. | 603 CONDUIT TYPE "A" 706.01 12" | 603 CONDUIT TYPE "A" 706.02 15" | 603 CONDUIT TYPE "A" 706.02 21" | 603 CONDUIT TYPE "A" 706.02 24" | 603 CONDUIT TYPE "A" 706.02 27" | 603 CONDUIT TYPE "A" 706.02 30" | 603 CONDUIT TYPE "A" 706.02 36" | 603 CONDUIT TYPE "A" 706.02 42" | 603 CONDUIT TYPE "A" 706.02 48" | 603 CONDUIT TYPE "A" 706.02 54" | 603 CONDUIT TYPE "B" 12" | 603 CONDUIT TYPE "B" 15" | 603 CONDUIT TYPE "C" 706.02 21" | 603 CONDUIT TYPE "F" 8" | 603 CONDUIT TYPE "F" 10" | 603 CONDUIT TYPE "F" 12" | 603 CONDUIT TYPE "F" 15" | 603 CONDUIT TYPE "F" 18" | 603 CONDUIT TYPE "F" 24" | 603 CONDUIT TYPE "E" 6" | 603 CONDUIT TYPE "E" 8" | 603 CONDUIT TYPE "E" 10" | 603 CONDUIT TYPE "E" 12" | 603 CONDUIT TYPE "E" 18" | 603 CONDUIT TYPE "C" 15" | 603 CONDUIT TYPE "C" 30" | 603 CONDUIT 6" TYPE "F" LIN. FT. | 202 PAVED GUTTER REMOVED LIN. FT. | 604 CATCH BASIN #6 EACH | 604 CATCH BASIN #6 MOD. #6 22B | 604 CATCH BASIN #6 MOD. 4 | 604 CATCH BASIN #6 MOD. 8 | SEE SHEET NUMBER # |
|---|---|---|---

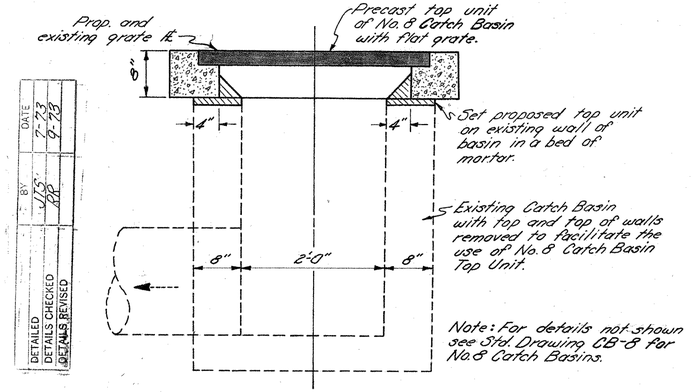
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

36
191

AUGLAIZE COUNTY
AUG.-75-4.97

604 CATCH BASIN ; RECONSTRUCTED AS Nº 8 ; AS PER PLAN

Note: Reconstructed Basins to be furnished with new grate and casting.



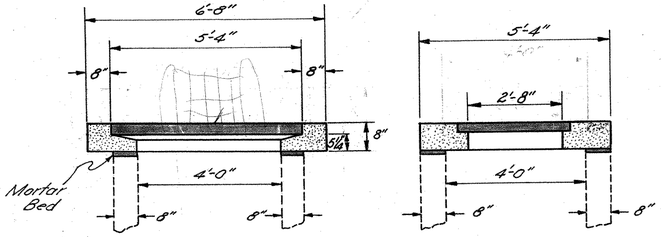
DETAILED BY JJS 7-73
DETAILS CHECKED DB 7-73
DETAILS REVISED

(1)

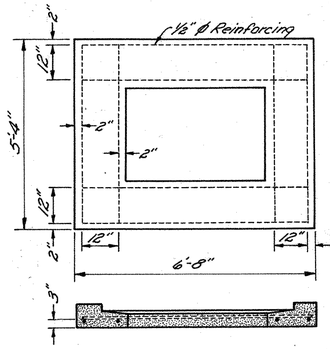
Work Required: Remove existing grate and walls of the existing catch basin to a depth of at least 8½" below existing inlet ℄ elevation; replace with No.8 Catch Basin Top unit as shown above; grade around catch basin in accordance with Standard Drawing CB-8 for No.8 Catch Basins. Concrete apron and jute matting will not be included in this construction.

STATION LOCATIONS		GRATE TYPE	
Sta. 329+00	℄ Survey	Sloped grate	
Sta. 4125 Ramp "D" 20' Lt. ℄		Flat grate	(Wapak - Fisher Rd. Interchange)
Sta. 4125 Ramp "B" 20' Lt. ℄		Flat grate	(Wapak - Fisher Rd. Interchange)
Sta. 347+00	℄ Survey	Sloped grate	
Sta. 355+00	℄ Survey	Sloped grate	
Sta. 359+00	℄ Survey	Flat grate	
Sta. 151+70	64' Lt. ℄	Flat grate	(Middle Pike Road)
Sta. 12+00 Ramp "C" 34' Rt. ℄		Flat grate	(National Road Interchange)
Sta. 430+00	℄ Survey	Flat grate	
Sta. 434+00	℄ Survey	Flat grate	
Sta. 439+00	℄ Survey	Flat grate	
Sta. 450+48	℄ Survey	Flat grate	
Sta. 501+00	℄ Survey	Flat grate	
Sta. 560+00	℄ Survey	Flat grate	
Sta. 601+00	℄ Survey	Flat grate	
Sta. 340+00	℄ Survey	Flat grate	

604 CATCH BASIN ; RECONSTRUCTED AS Nº 4 ; AS PER PLAN



Note: For Details not shown see Std. Drwg. CB-4. The proposed ℄ elevation is to be the same as the existing.



(2)

Work Required: Remove top of existing catch basin to at least 8½" below the inlet ℄ elevation. Construct rein. conc. slab to dimensions indicated and as shown. Grade around catch basin in accordance with Std. dwg. CB-4. Concrete apron and jute matting will not be included in this construction.

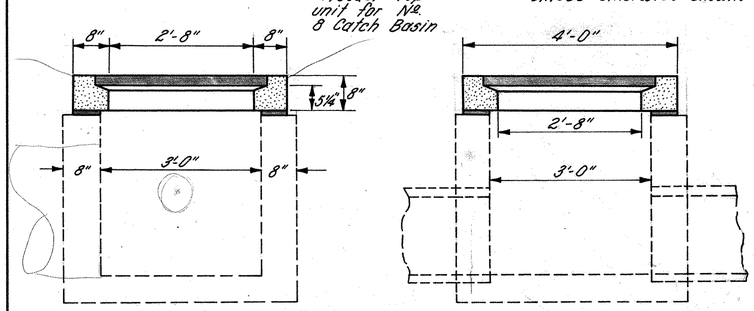
STATION	LOCATION	GRATE TYPE	℄ ELEVATION	EMBANKMENT	SEEDING
Sta. 553+10	℄ Survey	Flat Grate			
Sta. 587+00	℄ Survey	Sloped Grate	910.01	232	1200
Sta. 645+00	℄ Survey	Flat Grate	895.66	5	50
Sta. 701+34.4	℄ Survey	Flat Grate	901.23	64	2200
Sta. 380+68	℄ Survey	Flat Grate	Same as existing	—	—
Sta. 463+49	℄ Survey	Sloped Grate	" " "	—	—
Sta. 498+24	℄ Survey		TOTALS	301	3450

Note: Reconstructed Basins to be furnished with new grate and casting.

604 CATCH BASIN; RECONSTRUCTED AS Nº 8 ; AS PER PLAN

FOR DETAILS NOT SHOWN SEE STD. DWG. CB-8 FOR ADDITIONAL INFORMATION

(3) The proposed ℄ is to be the same as existing elevation unless otherwise shown.



WORK REQUIRED: Remove top and walls of existing catch basin to at least 8½" below ℄ elevation. Replace with pre-cast Nº 8 top unit as shown. Grade around catch basin in accordance with Std. Dwg. CB-8. Concrete apron and jute matting will not be included in this construction.

STATION	LOCATION	GRATE TYPE	℄ ELEVATION	EMBANKMENT	SEEDING
Sta. 490+10	℄ Survey	Sloped Grate	899.44	—	—
Sta. 611+00	℄ Survey	Flat Grate	907.19	25	700
Sta. 618+00	℄ Survey	Flat Grate	907.80	10	300
Sta. 693+00	℄ Survey*	Flat Grate	892.57	407	1900
Note: Reconstructed Basins to be furnished with new grate and casting.			TOTALS	442	2900

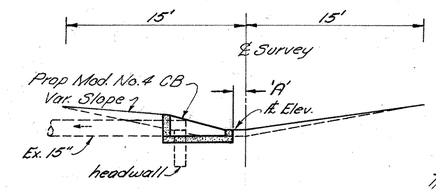
* Regrade ditch from sta. 685+00 to 693+00 & 693+00 to 696+00 ; slope to drain.

CATCH BASIN REPLACEMENT SUMMARY TABLE

REFERENCE NUMBER	QUANTITY FROM SHEET NUMBER	202 PORTIONS OF STRUCTURES REMOVED	203 EMBANKMENT	203 EXCAVATION NOT INCL. EMBANK. CONSTRUCTION	659 SEEDING AND MULCHING	604 CATCH BASIN RECONSTR AS # 8 AS PER PLAN	604 CATCH BASIN # 4 MODIFIED AS PER PLAN	604 CATCH BASIN RECONSTR. AS # 4 AS PER PLAN	604 CATCH BASIN RECONSTR. AS # 2-3-6 AS PER PLAN
		LUMP	CU. YD.	CU. YD.	CU. YD.	EACH	EACH	EACH	EACH
1	36					16			
2	36		301		3450			7	
3	36		442		2900	4			
4	36	Lump	1908	5	12976		17		
5	37		5		50			1	
6	37								2
TOTALS *		Lump	2656	5	19376	20	17	8	2

* QUANTITIES CARRIED TO GENERAL SUMMARY

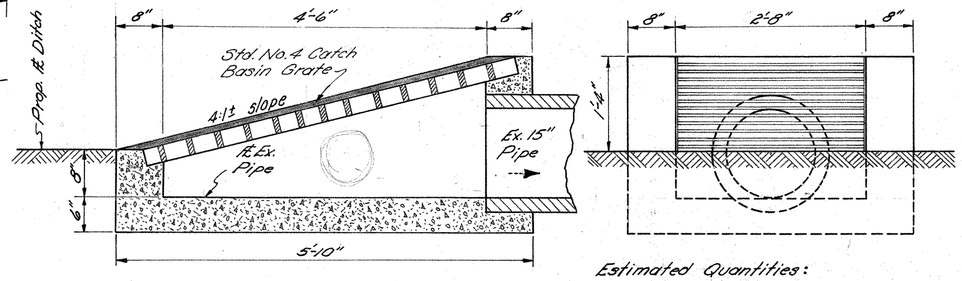
604 CATCH BASIN ; Nº 4 MODIFIED ; AS PER PLAN



Median Section At Culvert

Work Required: Remove headwall and pipe as required from existing structure. Construct Mod. No.4 Std. Catch Basin to dimensions and elevations shown. Grade as indicated and seed and mulch all graded areas.

Note: Basins to be furnished with new grate and casting. Pipe removal and headwall removal bottl; paid for under 202



Modify Standard No.4 Catch Basin as shown. Conc. Apron and jute matting will not be included in this construction. See Std. Drawing I-8 CB. No.8 for details not shown.

(4)

STATION LOCATION	GRADING (STA. TO STA.)	DIMENSION "A"	EMBANKMENT	EXCAVATION	SEEDING	C.B.
Sta. 368+00	367+90 to 369+00	1'-0"	41	0	183	1
Sta. 386+00	381+00 to 390+00 ①	1'-0"	511	0	2663	1
Sta. 399+00	398+00 to 399+10	1'-0"	34	0	184	1
Sta. 409+00	407+80 to 409+10	1'-0"	27	0	349	1
Sta. 417+00	409+10 to 417+00	1'-0"	220	0	2633	1
Sta. 455+00	454+25± to 456+00	1'-0"	46	0	350	1
Sta. 471+00	470+90 to 472+00	1'-0"	29	0	220	1
Sta. 508+00	506+90 to 509+00 ②	1'-0"	70	0	470	1
Sta. 518+00	516+90 to 519+00 ③	1'-0"	81	0	440	1
Sta. 534+00	533+00 to 535+10 ④	1'-0"	62	0	440	1
Sta. 544+00	543+00 to 545+10 ⑤	1'-0"	70	0	459	1
Sta. 576+00	573+00 to 581+00	1'-0"	264	0	1600	1
Sta. 627+00	624+80 to 627+20 ⑥	1'-0"	0	5	125	1
Sta. 635+00	633+00 to 640+00 ⑦	1'-0"	259	0	1400	1
Sta. 664+00	663+00 to 664+10	1'-0"	42	0	240	1
Sta. 670+00	668+00 to 670+10	1'-0"	72	0	620	1
Sta. 677+00	675+00 to 677+10	1'-0"	80	0	600	1
		TOTALS	1908	5	12976	17

Estimated Quantities:

202	Portions of Structures Removed	Lump
604	Catch Basins, No.4 Mod.; as per plan -	17 Each
203	Embankment	1908 Cu. Yds.
659	Seeding and Mulching	12976 Sq. Yds.
203	Excavation	5 Cu. Yds.

① Ex. elev. 381+00 ; +1.07% to 382+00 ; -0.4% to 386+00 ; +0.4% to 389+00 ; -3.28% to 390+00
② Fill median at sta. 507+90 to elevation 906.57
③ Fill median at sta. 517+90 to elevation 913.74
④ Fill median at sta. 534+10 to elevation 913.78
⑤ Fill median at sta. 544+10 to elevation 907.77
⑥ ℄ ditch at sta. 627+00 = 907.0 ; ℄ Grate of catch basin = 906.30
⑦ Grade from sta. 633+00 to 634+00 = +0.30% ; 634+00 to 635+00 = 0.33% ; 635+00 to 640+00 = 0.15%

CATCH BASIN DETAILS

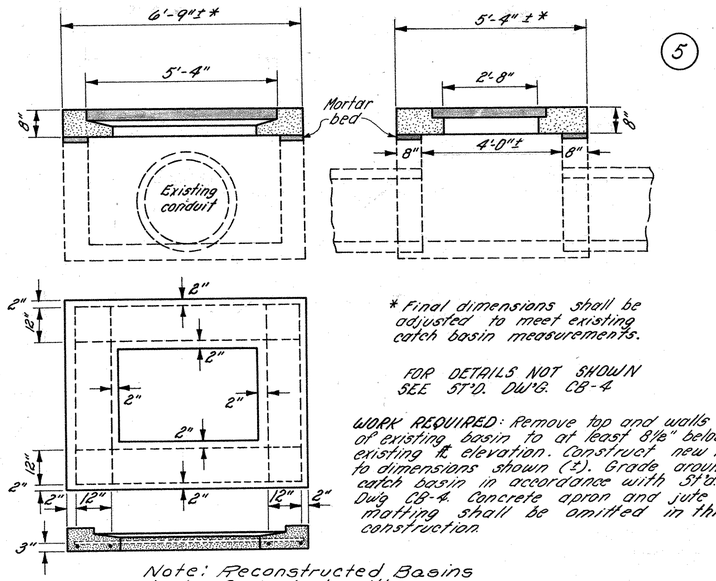
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

37/91

AUGLAIZE COUNTY
AUG.-75-4.97

604 CATCH BASIN; RECONSTRUCTED AS Nº 4 ; AS PER PLAN

DETAILED	BY	DATE
DETAILS CHECKED	J.S.	7-73
DETAILS REVISED	KP	9-73



(5)

* Final dimensions shall be adjusted to meet existing catch basin measurements.

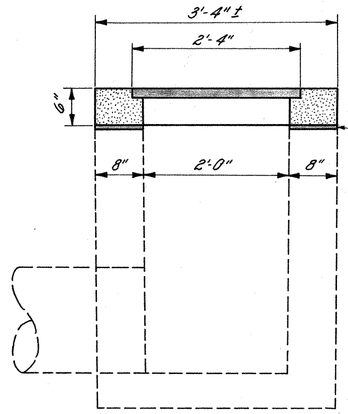
FOR DETAILS NOT SHOWN SEE ST'D. DW'G. CB-4

WORK REQUIRED: Remove top and walls of existing basin to at least 8 1/6" below existing ℄ elevation. Construct new top to dimensions shown (±). Grade around catch basin in accordance with St'd. Dw'g CB-4. Concrete apron and jute matting shall be omitted in this construction.

Note: Reconstructed Basins to be furnished with new grate and casting

STATION LOCATION	GRATE TYPE	℄ ELEVATION	EMBANKMENT	SEEDING	C.B.
Sta. 684+00 ℄ Survey	Flat grate	892.98	5	50	1
TOTALS CARRIED TO SHEET Nº 36			5	50	1

604 CATCH BASIN; RECONSTRUCTED AS Nº 2-2-B; AS PER PLAN



(6)

FOR DETAILS NOT SHOWN SEE ST'D. DW'G. CB-2-2-B

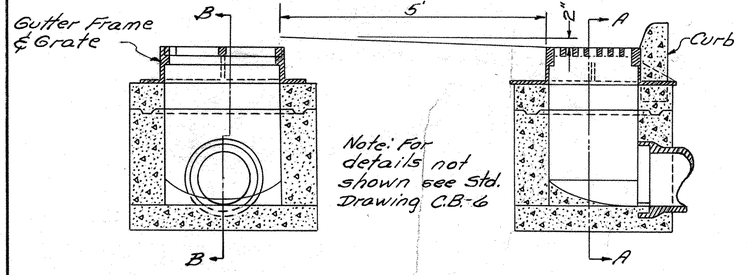
The proposed ℄ elevation is to be the same as the existing unless otherwise shown.

WORK REQUIRED: Remove top and walls of existing basin to at least 6 1/6" below existing ℄ elevation. Construct new top as shown (±). Grade around catch basin to insure adequate drainage. Concrete apron and jute matting will be omitted in this construction.

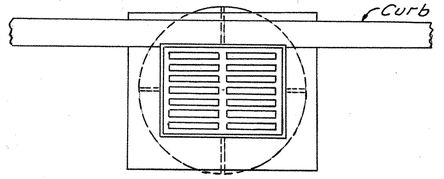
Note: Reconstructed Basins to be furnished with new grate and casting.

STATION LOCATION		C.B.
Sta. 381+32	See sheet no. 40 for details not shown	1
Sta. 632+86	70' Lt.	1
TOTALS CARRIED TO SHEET Nº 36		2

STANDARD NO. 6 CATCH BASIN MODIFIED

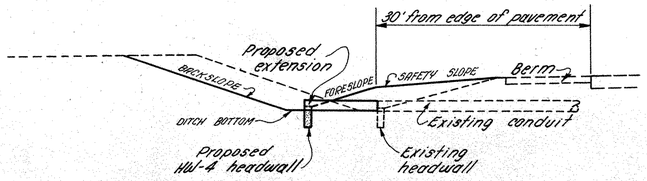


The No. 6 Catch Basin modification shall consist of depressing the grate an extra 2" and warping the soulder pavement around the catch basin for a distance of 5 feet.



CATCH BASIN DETAILS

	BY	DATE
DETAILED	W.M.	3-73
DETAILS CHECKED	R.R.	3-73
DETAILS REVISED		



STRUCTURE SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

38
191

AUGLAIZE COUNTY
AUG. - 75 - 4.97

Structure number	Station	Side	Safety Slope	Fore Slope	Ditch Bottom	Back Slope	% grade of proposed conduit	Transition earthwork between stations From	To	202E Portions of structures removed	203 Excavation	Embankment	659 Seeding and Mulching	602 Concrete Masonry	603 Conduit Type "A" 706.02 15"	18"	36"	603 Conduit Type "B" 706.05 15"	660 Sod-ding	609 Conduit Type A 706.02 30"	694 Catch Basin 2-2-B	
							%			Lump	Cu. Yd.	Cu. Yd.	Sq. Yd.	Cu. Yd.	Lin. Ft.			Lin. Ft.	Sq. Yd.	Lin. Ft.	Each	
AUG.-75-0595	368+00	Lt.	16:1	5:1	2'	4:1	0.45%	366+00	370+00	Lump	444	224	1112	0.25	16							
AUG.-75-0629	386+00	Lt.	10:1	4:1	2'	4:1	0.43%	384+00	388+00	Lump	88	280	844	0.25	12							
AUG.-75-0653	399+00	Lt.	10:1	4:1	2'	4:1	0.30%	397+00	401+00	Lump	96	164	800	0.25	12							
AUG.-75-0854	501+00	Rt.	8:1	4:1	2'	4:1	1.25%			Lump				0.25	12							
AUG.-75-0867	508+00	Rt.	12:1	3:1	2'	3:1	0.45%	506+00	510+00	Lump	888	268	1224	0.25	12							
AUG.-75-0886	518+00	Rt.	16:1	4:1	2'	3:1	0.45%	516+00	520+00	Lump	1132	224	1376	0.25	16							
AUG.-75-0917	534+00	Rt.	12:1	4:1	2'	3:1	0.57%	532+00	536+00	Lump	444	348	1044	0.25	12							
AUG.-75-0936	544+00	Rt.	8:1	4:1	2'	3:1	0.49%	543+00	546+00	Lump	258	415	1278	0.25	4							
AUG.-75-0966	560+00	Rt.	8:1	2:1	16'	3:1	1.28%	558+00	562+00	Lump	200	460	1488	0.25	4							
AUG.-75-0996	576+00	Rt.	10:1	2:1	16'	2:1	1.25%	574+00	578+00	Lump	172	304	1112	0.31		8						
AUG.-75-1229	12+00	Rt.	8:1	4:1	4'	4:1	0.60%	—	—	Lump	—	—	—	0.25				36	See X-Sections for Earthwork and Seeding, Culvert on Ramp "C" National Road Interchange			
AUG.-75-1233	10+00	Rt.	8:1	4:1	4'	4:1	0.60%	—	—	Lump	—	—	—	0.69			24		See X-Sections for Earthwork and seeding, Culvert on Ramp "C" National Road Interchange			
AUG.-75-1236	6+58	Rt.	8:1	4:1	2'	4:1	0.80%	—	—	Lump	—	—	—	0.25	10				See X-Sections for Earthwork and Seeding, Culvert on Ramp "C" National Road Interchange			
Aug-75-0767	455+00	Rt.	8:1	4:1	2'	3:1	0.36%	453+00	457+00	Lump	237	193	1766	0.25	10				100	Sod ditch bottom, 9' wide, 453+00 to 454+00		
Aug-75-1030	594+00	Rt.	8:1	4:1	—	—	0.4%	592+00	596+00	Lump	0	459	888	0.56						8		
Aug-75-1030	594+00	Lt.	8:1	4:1	2'	3:1	0.4%	592+00	596+00	Lump	163	363	1956	0.56						6		
Aug-75-1062	611+00	Rt.	8:1	4:1	—	—	0.3%	609+00	613+00	Lump	0	196	800	0.56						6		
Aug-75-1062	611+00	Lt.	8:1	4:1	2'	3:1	0.3%	609+00	613+00	Lump	148	166	888	0.56						6		
Aug-75-1076	618+00	Rt.	8:1	4:1	8'	3:1	0.3%	616+00	620+00	Lump	126	393	2222	0.56						4		
Aug-75-1076	618+00	Lt.	8:1	4:1	2'	3:1	0.3%	616+00	620+00	Lump	185	333	2044	0.56						6		
Aug-75-1093	627+00	Rt.	8:1	4:1	2'	3:1	0.512%	625+00	629+90	Lump	141	252	1867	0.25	10							
Aug-75-1108	635+00	Lt.	16:1	4:1	2'	4:1	0.6%	633+00	636+25	Lump	72	156	1300	0.25	12						1	Replace Catch Basin at 636+23, 73' Left
Aug-75-1163	664+00	Rt.	8:1	4:1	2'	3:1	0.428%	662+00	661+98	Lump	570	222	3289	0.25	8							
Aug-75-1174	670+00	Rt.	8:1	4:1	2'	3:1	0.571%	668+00	672+00	Lump	207	67	2222	0.25	10							
Aug-75-1184	677+00	Rt.	8:1	4:1	2'	3:1	1.81%	675+00	679+00	Lump	444	281	2133	0.25	8							See Sheet 35 for Protection at Outlet 3'x9'x2.5'
TOTALS TO GENERAL SUMMARY										Lump	6015	5768	31653	8.61	168	8	24	36	100	36	1	

	BY	DATE
DETAILED	JTS	9-72
DETAILS CHECKED	RR	10-72
DETAILS REVISED		

STRUCTURE STATION 352+35

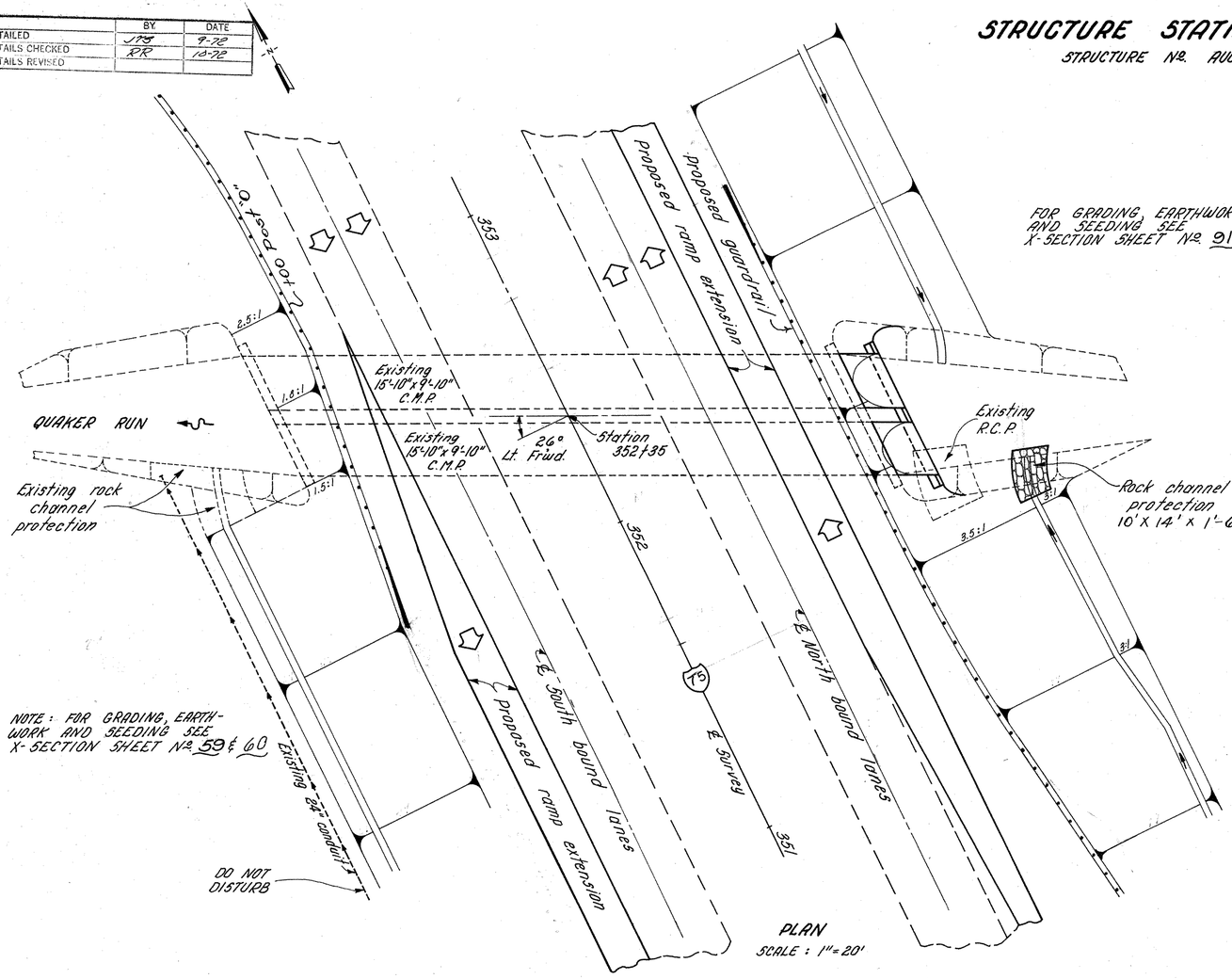
STRUCTURE No. AUG.-75-0571

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

39/191

AUGLAIZE COUNTY

AUG.-75-4.97



PLAN

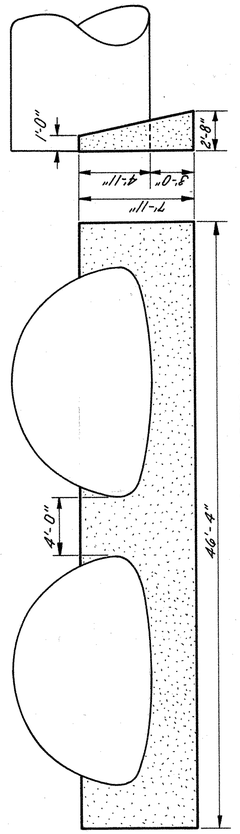
SCALE : 1"=20'

FOR GRADING, EARTHWORK AND SEEDING SEE X-SECTION SHEET No. 91

WORK REQUIRED: Remove existing headwall and construct new headwall as shown. Remove the existing skewed end plates for re-use. Install sufficient standard uniform plates to insure a 12' extension of the existing pipe as shown. Reinstall the removed skewed plates at the pipe end. Any plates damaged during construction shall be replaced, as directed by the Engineer, at no additional cost to the State. Place rock channel protection as shown.

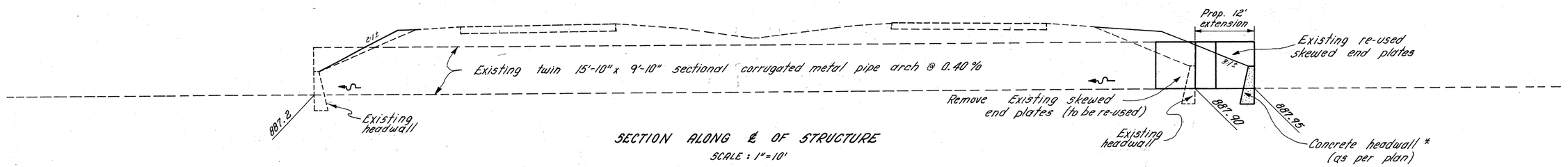
ESTIMATED QUANTITIES

603	15'-10" x 9'-10" Conduit ; Type "A" ; 707.03	- 24 Lin. Ft.
602	Concrete Masonry	- 16.2 Cu. Yd.
601	Rock Channel Protection ; Type "B"	- 10.4 Cu. Yd.
202	Portions of structures removed	- Lump
202	Pipe removed for re-use	- 16 Lin. Ft.
603	15'-10" x 9'-10" Conduit reconstructed ; Type "A"	- 16 Lin. Ft.



CONCRETE HEADWALL DETAIL *

DATUM LINE ELEVATION = 915.00



SECTION ALONG ℄ OF STRUCTURE

SCALE : 1"=10'

	BY	DATE
DETAILED	JTS	9-72
DETAILS CHECKED	RR	10-72
DETAILS REVISED		

STRUCTURE STATION 352+35

STRUCTURE STATION 380+68

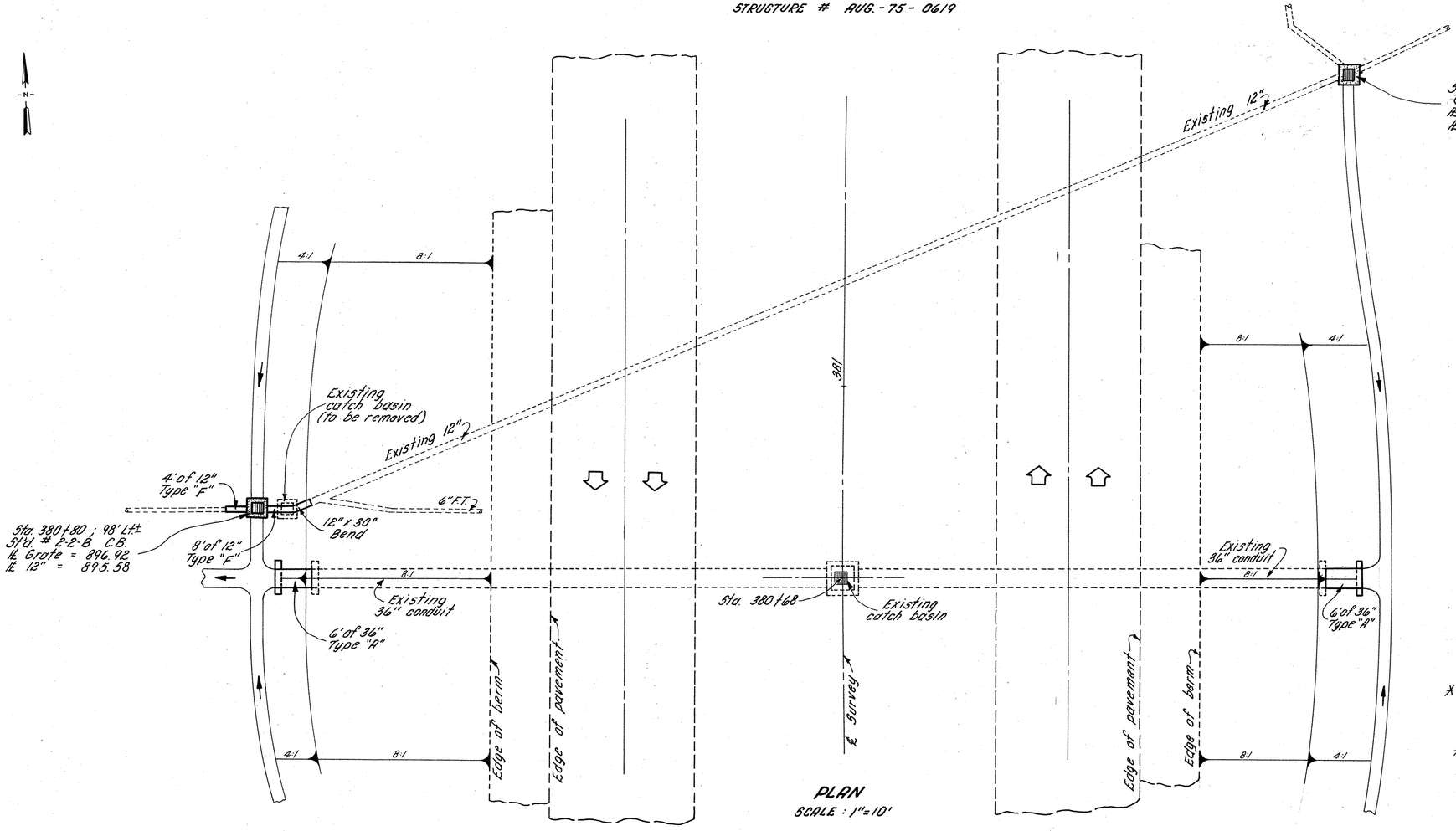
STRUCTURE # AUG.-75-0619

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

40
191

AUGLAIZE COUNTY

AUG. 75-4.97



PLAN

SCALE : 1"=10'

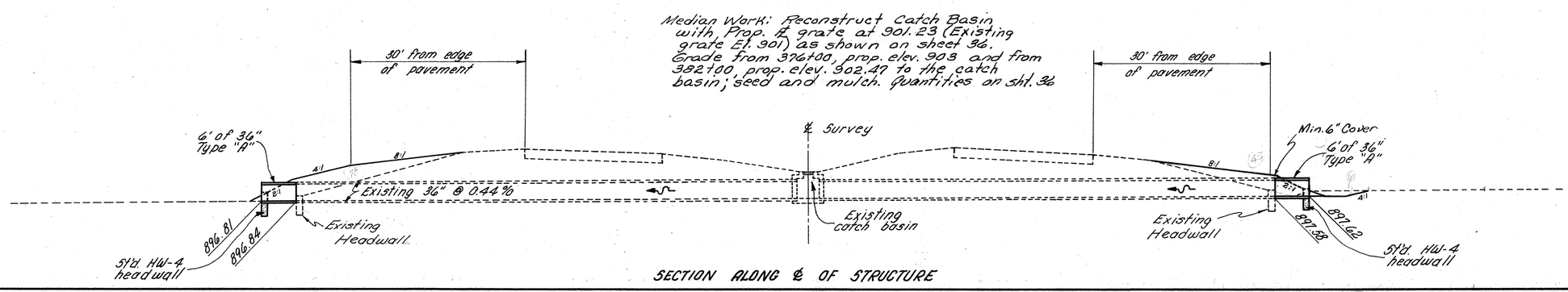
WORK REQUIRED: Remove existing headwalls from structure. Extend existing 36" conduit as shown and construct new headwalls. Construct proposed # 2-2-B catch basins, right and left and outlet existing pipes as shown. Transition earthwork and grading from station 378+68(Rt.) to 382+68(left) and 381+68±(right). Seed and mulch all graded areas unless otherwise protected.

ITEM	ESTIMATED QUANTITIES	
603	36" Conduit ; Type "A" ; 706.02 Cl. II	- 12 Lin. Ft.
603	12" Conduit ; Type "F" ;	- 20 Lin. Ft.
604	Std. # 2-2-B Catch Basins	- 1 Each
602	Concrete Masonry	- 1.38 Cu. Yd.
202	Portions of structures removed	- Lump
202	Catch Basins removed	- 1 Each
203	Excavation	- 33 Cu. Yd.
203	Embankment	- 825 Cu. Yd.
659	Seeding and Mulching	- 1666 Sq. Yd.
* 604	Catch Basin, Reconstructed as N°. 2-2-B, as per plan	- 1 Each

* quantity carried to sheet 37

Other quantities carried to sheet 35

DATUM LINE ELEVATION = 940.00



SECTION ALONG ℄ OF STRUCTURE

STRUCTURE STATION 380+68

DETAILED
DETAILS CHECKED
DETAILS REVISED

DATE	BY
3-8-76	TS
10-8-76	RR

	BY	DATE
DETAILED	JTS	9-72
DETAILS CHECKED	RR	10-72
DETAILS REVISED		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

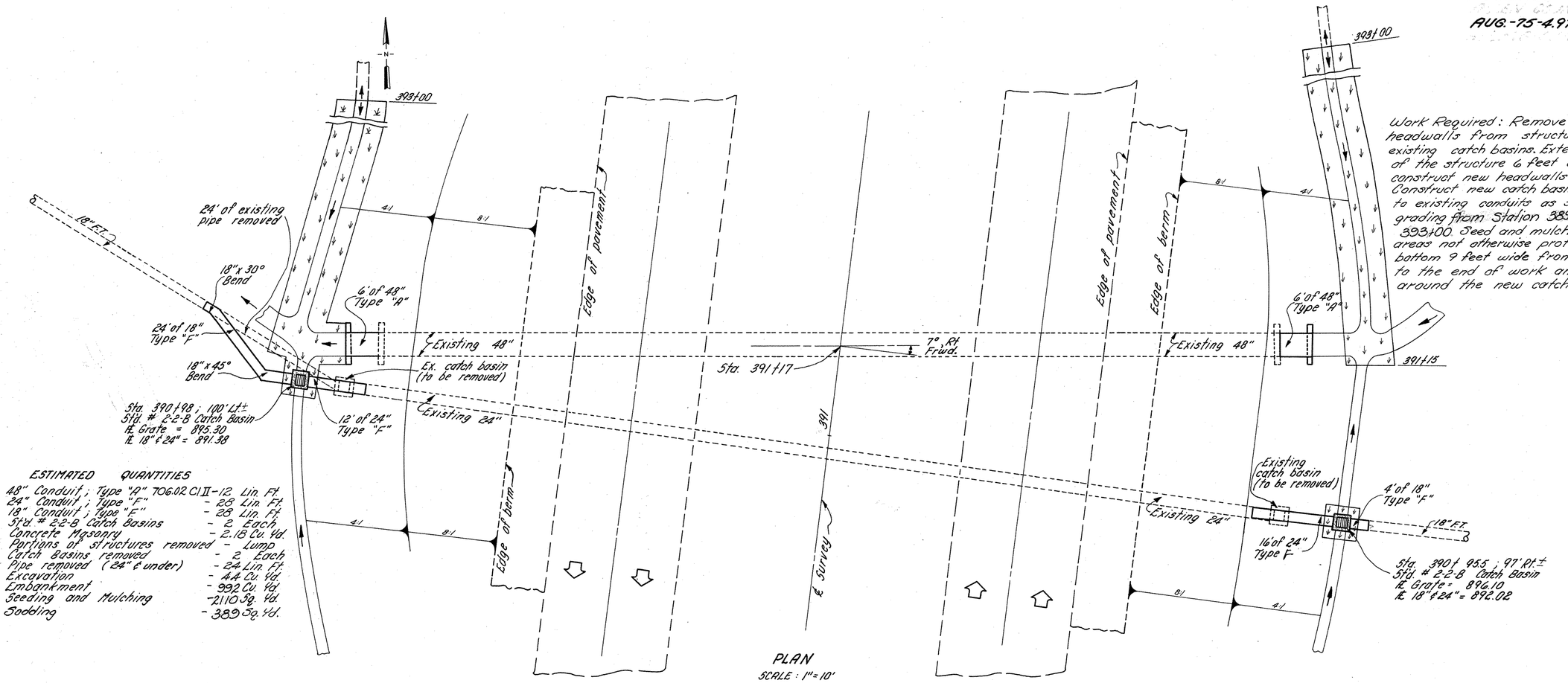
41
191

AUGLAIZE COUNTY

AUG.-75-4.97

STRUCTURE STATION 391+17

STRUCTURE # AUG.-75-0637



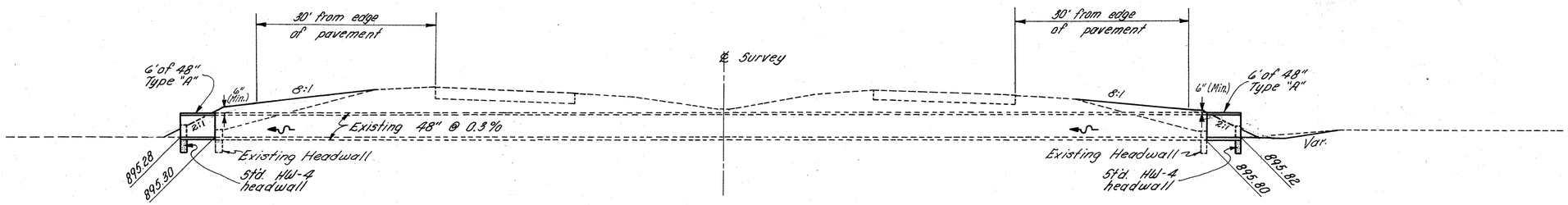
PLAN

SCALE : 1" = 10'

Work Required: Remove existing headwalls from structure and the existing catch basins. Extend the length of the structure 6 feet at each end, construct new headwalls as shown. Construct new catch basins and connect to existing conduits as shown. Transition grading from Station 389+17 to Station 393+00. Seed and mulch all graded areas not otherwise protected. Sod ditch bottom 9 feet wide from structure ahead to the end of work and for 18 inches around the new catch basins.

ITEM	ESTIMATED QUANTITIES	
603	48" Conduit ; Type "A" 706.02 C II	- 12 Lin. Ft.
603	24" Conduit ; Type "F"	- 28 Lin. Ft.
603	18" Conduit ; Type "F"	- 28 Lin. Ft.
604	Std. # 2-2-B Catch Basins	- 2 Each
602	Concrete Masonry	- 2.18 Cu. Yd.
202	Portions of structures removed	- Lump
202	Catch Basins removed	- 2 Each
202	Pipe removed (24" & under)	- 24 Lin. Ft.
203	Excavation	- 44 Cu. Yd.
203	Embankment	- 992 Cu. Yd.
659	Seeding and Mulching	- 2110 Sq. Yd.
660	Sodding	- 389 Sq. Yd.

DATUM LINE ELEVATION = 940.00



SECTION ALONG ℄ OF STRUCTURE

STRUCTURE STATION 391+17

DETAILED BY JTS DATE 9-72
DETAILS CHECKED BY RR DATE 10-72
DETAILS REVISED

STRUCTURE STATION 407+86

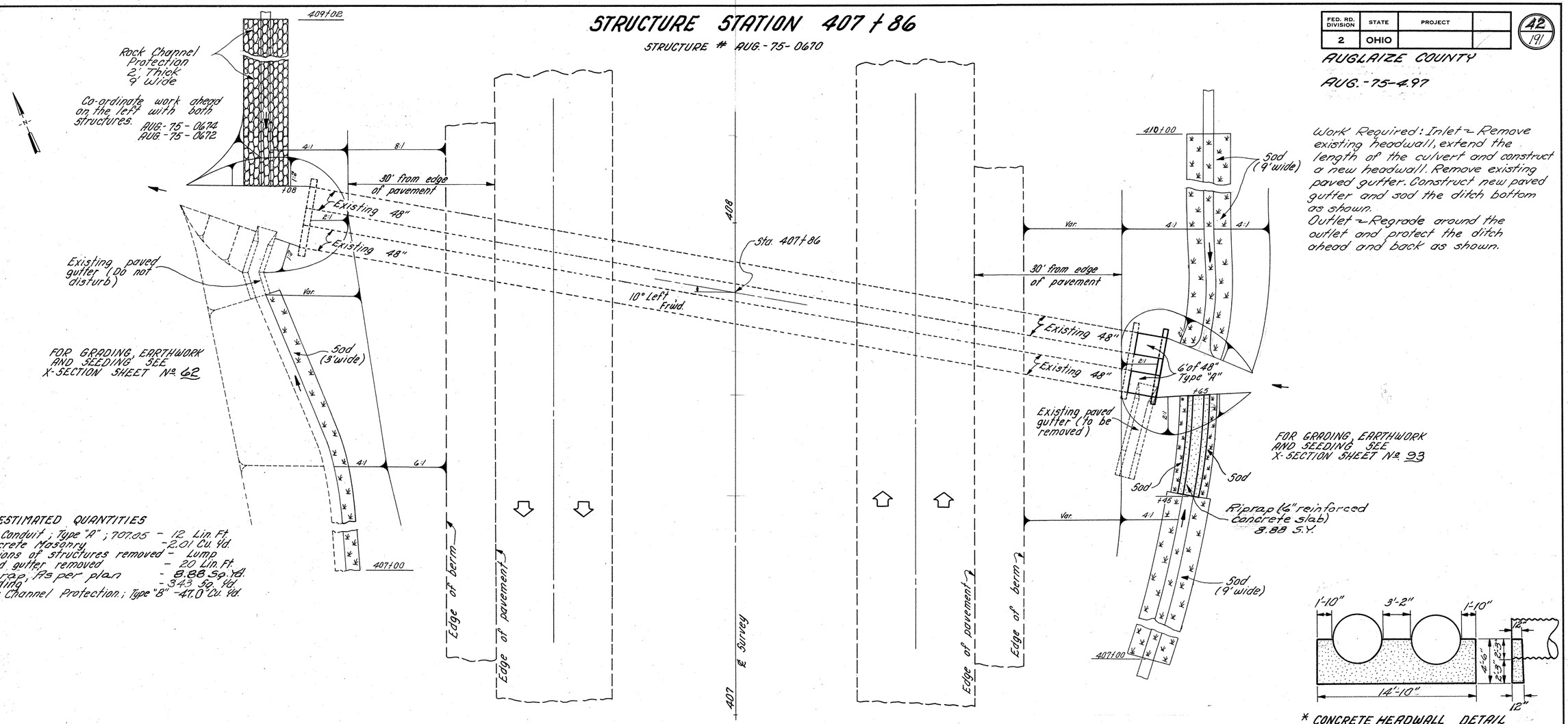
STRUCTURE # AUG.-75-0670

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

42
191

AUGLAIZE COUNTY

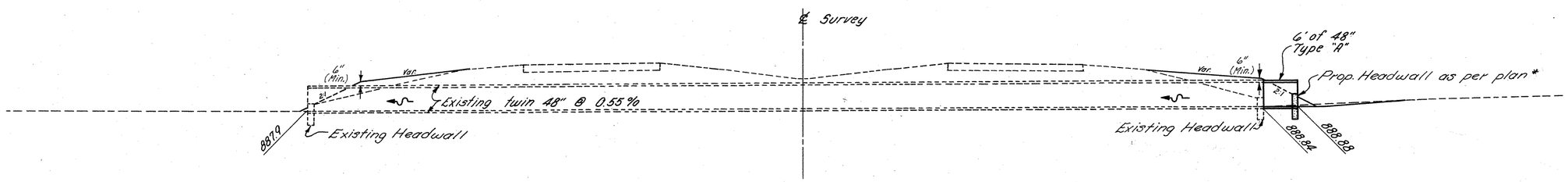
AUG.-75-4.97



Work Required: Inlet - Remove existing headwall, extend the length of the culvert and construct a new headwall. Remove existing paved gutter. Construct new paved gutter and sod the ditch bottom as shown.
Outlet - Regrade around the outlet and protect the ditch ahead and back as shown.

ITEM	ESTIMATED QUANTITIES	
603	48" Conduit; Type "A"; 707.05	- 12 Lin. Ft.
602	Concrete Masonry	- 2.01 Cu. Yd.
202	Portions of structures removed	- Lump
202	Paved gutter removed	- 20 Lin. Ft.
601	Riprap, As per plan	- 8.88 Sq. Yd.
660	Sodding	- 343 Sq. Yd.
601	Rock Channel Protection; Type "B"	- 47.0 Cu. Yd.

* CONCRETE HEADWALL DETAIL



SECTION ALONG ℄ OF STRUCTURE

DETAILED	BY	DATE
DETAILS CHECKED	TS	9-1972
DETAILS REVISED	RR	10-1972

STRUCTURE STATION 407+86

	BY	DATE
DETAILED	JTS	9-72
DETAILS CHECKED	RR	10-72
DETAILS REVISED		

STRUCTURE STATION 463+49

STRUCTURE # AUG-75-0783

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

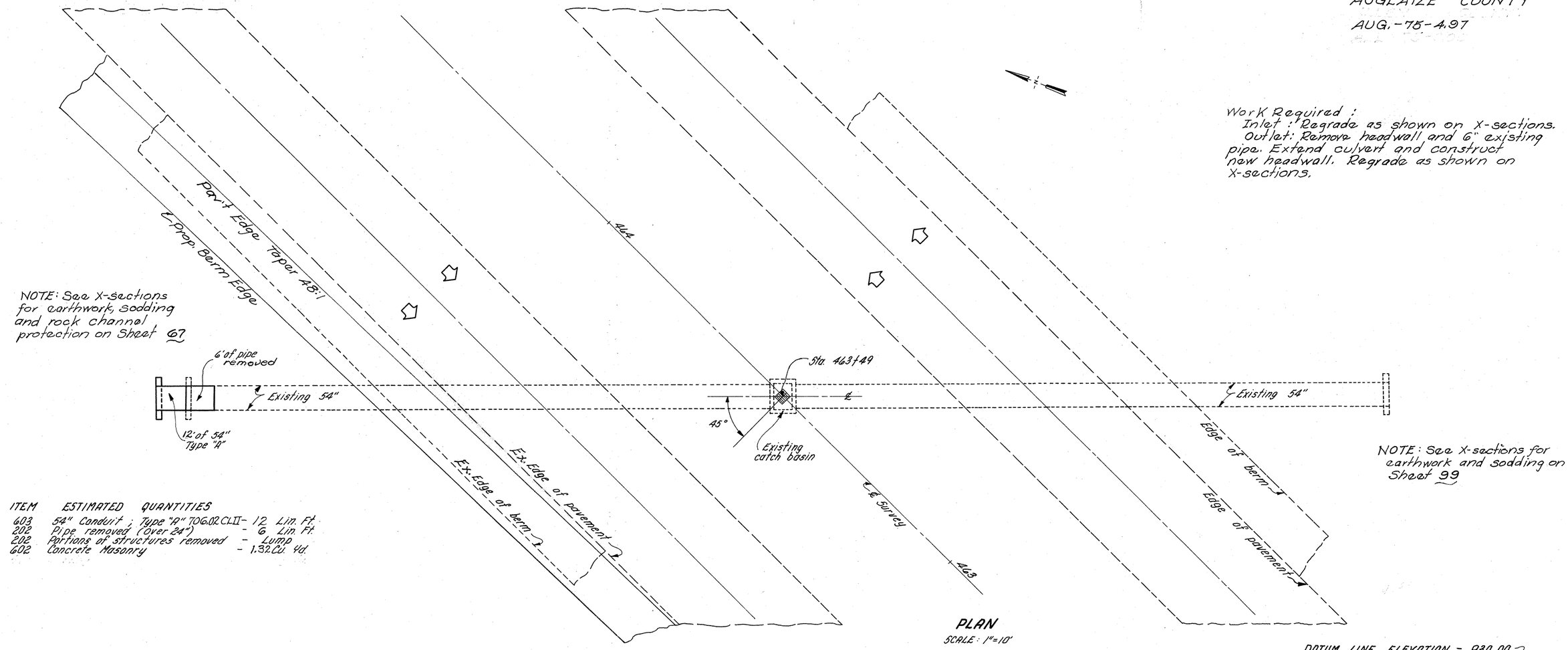
43
191

AUGLAIZE COUNTY

AUG.-75-4.97

Work Required :
Inlet : Regrade as shown on X-sections.
Outlet: Remove headwall and 6" existing pipe. Extend culvert and construct new headwall. Regrade as shown on X-sections.

NOTE: See X-sections for earthwork, sodding and rock channel protection on Sheet 67



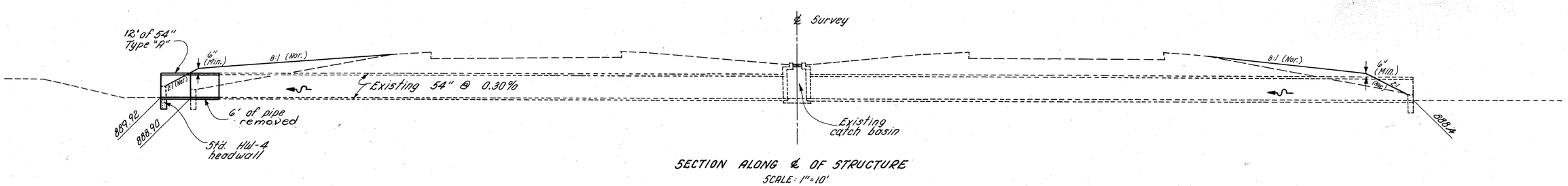
NOTE: See X-sections for earthwork and sodding on Sheet 99

PLAN
SCALE: 1"=10'

ITEM	ESTIMATED QUANTITIES	
603	54" Conduit ; Type "A" 706.02 CL II	- 12 Lin. Ft.
202	Pipe removed (Over 24")	- 6 Lin. Ft.
202	Portions of structures removed	- Lump
602	Concrete Masonry	- 1.32 Cu. Yd.

DATUM LINE ELEVATION = 930.00

FOR MEDIAN CATCH BASIN WORK SEE SHEET No. 36



SECTION ALONG ℄ OF STRUCTURE
SCALE: 1"=10'

STRUCTURE STATION 463+49

	BY	DATE
DETAILED	J.T.S.	12-72
DETAILS CHECKED	R.R.	2-73
DETAILS REVISED		

STRUCTURE STATION 490+10

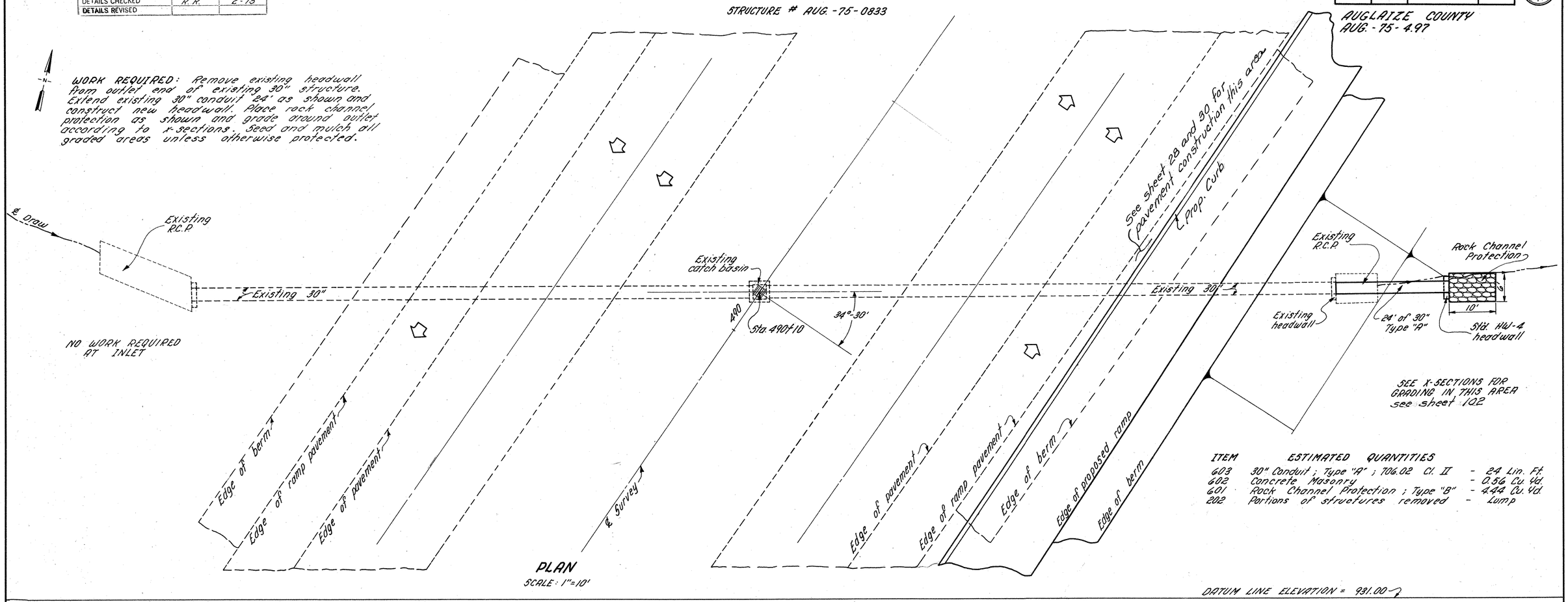
STRUCTURE # AUG.-75-0833

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

44
191

AUGLAIZE COUNTY
AUG.-75-4.97

WORK REQUIRED: Remove existing headwall from outlet end of existing 30" structure. Extend existing 30" conduit 24' as shown and construct new headwall. Place rock channel protection as shown and grade around outlet according to x-sections. Seed and mulch all graded areas unless otherwise protected.

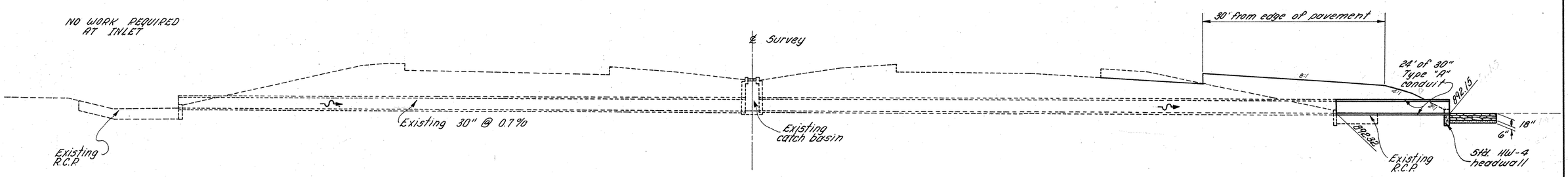


PLAN
SCALE: 1"=10'

ITEM	ESTIMATED QUANTITIES	
603	30" Conduit; Type "A"; 706.02 Cl. II	- 24 Lin. Ft.
602	Concrete Masonry	- 0.56 Cu. Yd.
601	Rock Channel Protection; Type "B"	- 444 Cu. Yd.
202	Portions of structures removed	- Lump

DATUM LINE ELEVATION = 931.00

Note: For median catch basin work
See sheet No. 36



SECTION ALONG ℄ OF STRUCTURE
SCALE: 1"=10'

STRUCTURE STATION 490+10

STRUCTURE STATION 493+78

STRUCTURE # AUG.-75-0840

	BY	DATE
DETAILED	JTS	3-73
DETAILS CHECKED	RR	4-73
DETAILS REVISED		

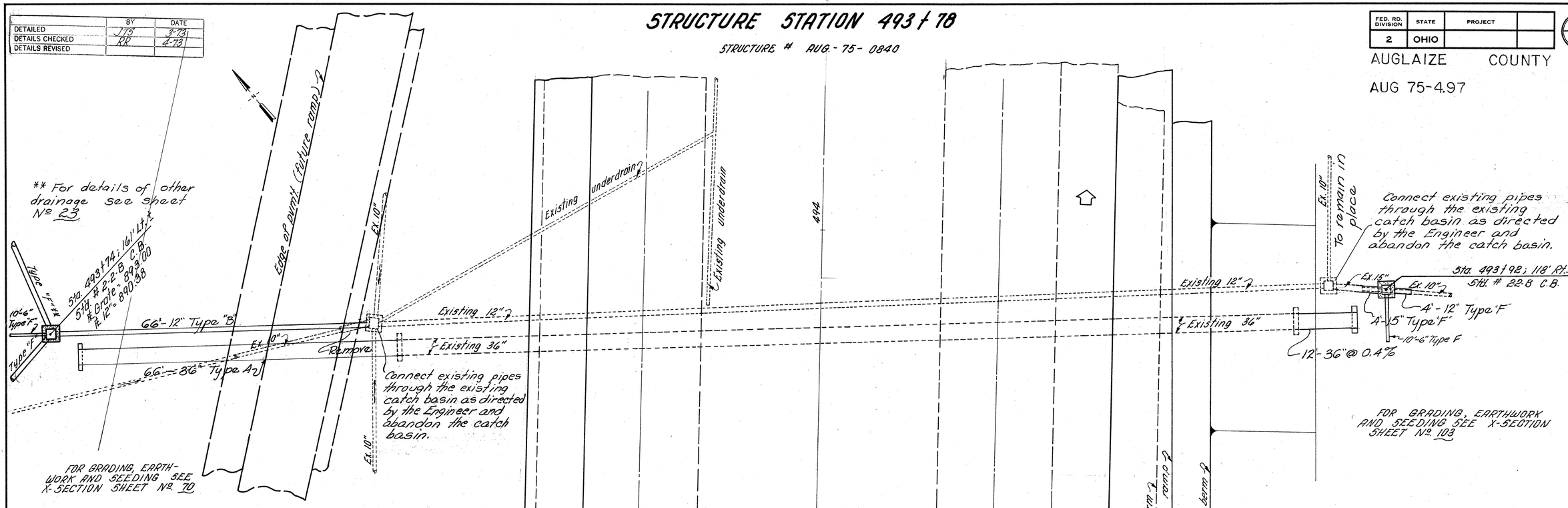
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

45/191

AUGLAIZE COUNTY

AUG 75-4.97

** For details of other drainage see sheet No 23



FOR GRADING, EARTHWORK AND SEEDING SEE X-SECTION SHEET No. 10

FOR GRADING, EARTHWORK AND SEEDING SEE X-SECTION SHEET No. 103

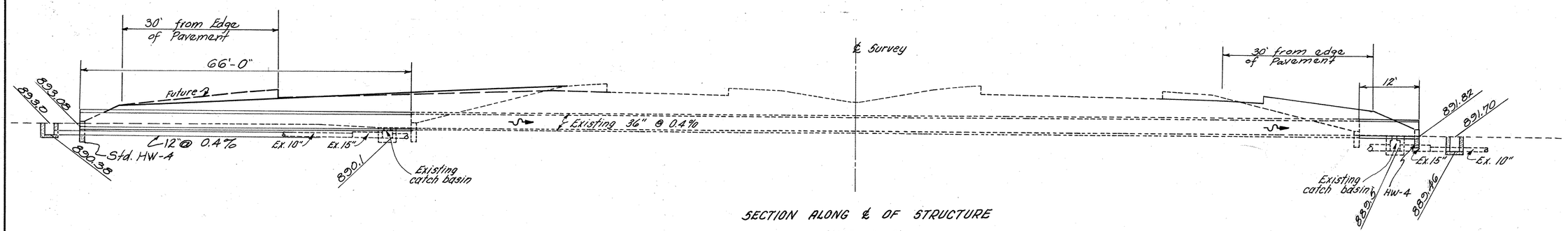
PLAN

SCALE : 1"=10'

ITEM	ESTIMATED QUANTITIES	
603	36" Conduit, Type "A" 706.02 Cl. II	78 Lin. Ft.
603	12" Conduit, Type "B"	66 Lin Ft.
603	15" Conduit, Type "F"	4 Lin Ft.
603	12" Conduit Type "F"	4 Lin. Ft.
603	6" Conduit Type "F"	20 Lin. Ft.
602	Concrete Masonry	1.38 Cu. Yd.
202	Portion of Structure Removed	Lump
202	Catch Basin Abandoned	2 Each
604	Standard 2-2B Catch Basin	2 Each
202	Pipe Removed 24" and Under	6 Lin. Ft.

WORK REQUIRED: Remove existing headwall from existing 36" structure. Extend existing 36" conduit as shown and construct new headwall. Construct new catch basins right and left as shown, connect secoundary drainage system into catch basins and abandon existing catch basins as shown Grade around the structure according to x-sections. Seed and mulch all graded areas unless otherwise protected. Construct 10'-6" Type "F" in each catch basin, as shown, and seal.

DATUM LINE ELEVATION = 930.00



SECTION ALONG ℄ OF STRUCTURE

SCALE : 1"=10'

STRUCTURE STATION 493+78

STRUCTURE STATION 498+24

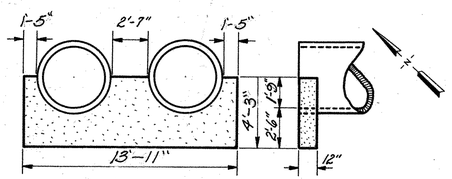
STRUCTURE # AUG.-75-0849

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

46 / 191

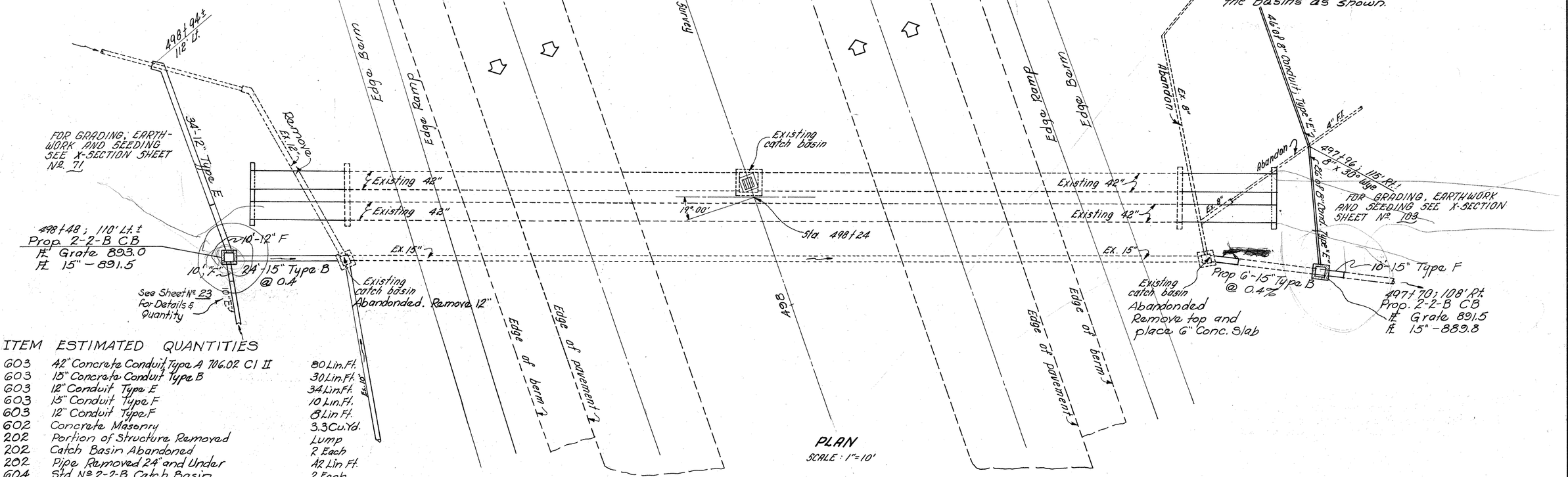
AUGLAIZE COUNTY

AUG. 75-4.97



CONCRETE HEADWALL DETAIL

Work Required: Remove headwalls from existing 42" twin Conduit. Connect pipes through the existing catch basins as indicated, Rt. & Lt., then abandon the basins. Extend the length of the twin 42" structure and construct new headwalls as shown. Construct new catch basins Rt. and Lt. and connect the tile lines to the basins as shown.



PLAN

SCALE : 1" = 10'

ITEM ESTIMATED QUANTITIES

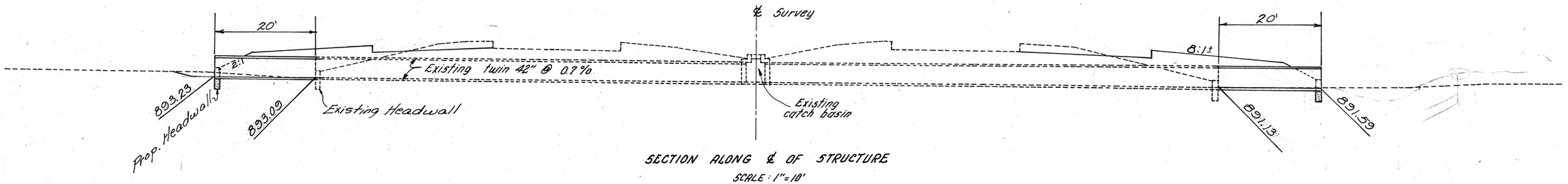
603	42" Concrete Conduit Type A 706.02 Cl II	80 Lin. Ft.
603	15" Concrete Conduit Type B	30 Lin. Ft.
603	12" Conduit Type E	34 Lin. Ft.
603	15" Conduit Type F	10 Lin. Ft.
603	12" Conduit Type F	8 Lin. Ft.
602	Concrete Masonry	3.3 Cu. Yd.
202	Portion of Structure Removed	Lump
202	Catch Basin Abandoned	2 Each
202	Pipe Removed 24" and Under	42 Lin. Ft.
604	Std Nº 2-2-B Catch Basin	2 Each
603	8" Conduit ; Type "E"	72 Lin. Ft.

	BY	DATE
DETAILED	JTB	5-73
DETAILS CHECKED	RJP	6-73
DETAILS REVISED		

Note : For median catch basin See Sheet No. 36

Median Work : Reconstruct Catch Basin with Prop. ℄ grate at 897.18 (Existing grate ℄ 896.97) as shown on sheet 36. Grade from 497+00 and from 500+00 to the catch basin, seed & mulch graded area.

DATUM LINE ELEVATION = 926.00



SECTION ALONG ℄ OF STRUCTURE

SCALE : 1" = 10'

STRUCTURE STATION 498+24

	BY	DATE
DETAILED	JTS	9-72
DETAILS CHECKED	RR	10-72
DETAILS REVISED		

STRUCTURE STATION 541+00

STRUCTURE # AUG.-75-0930

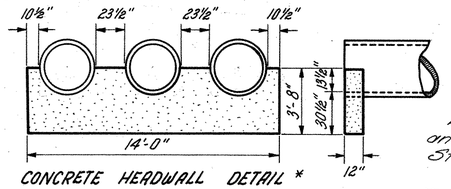
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

47
191

AUGLAIZE COUNTY

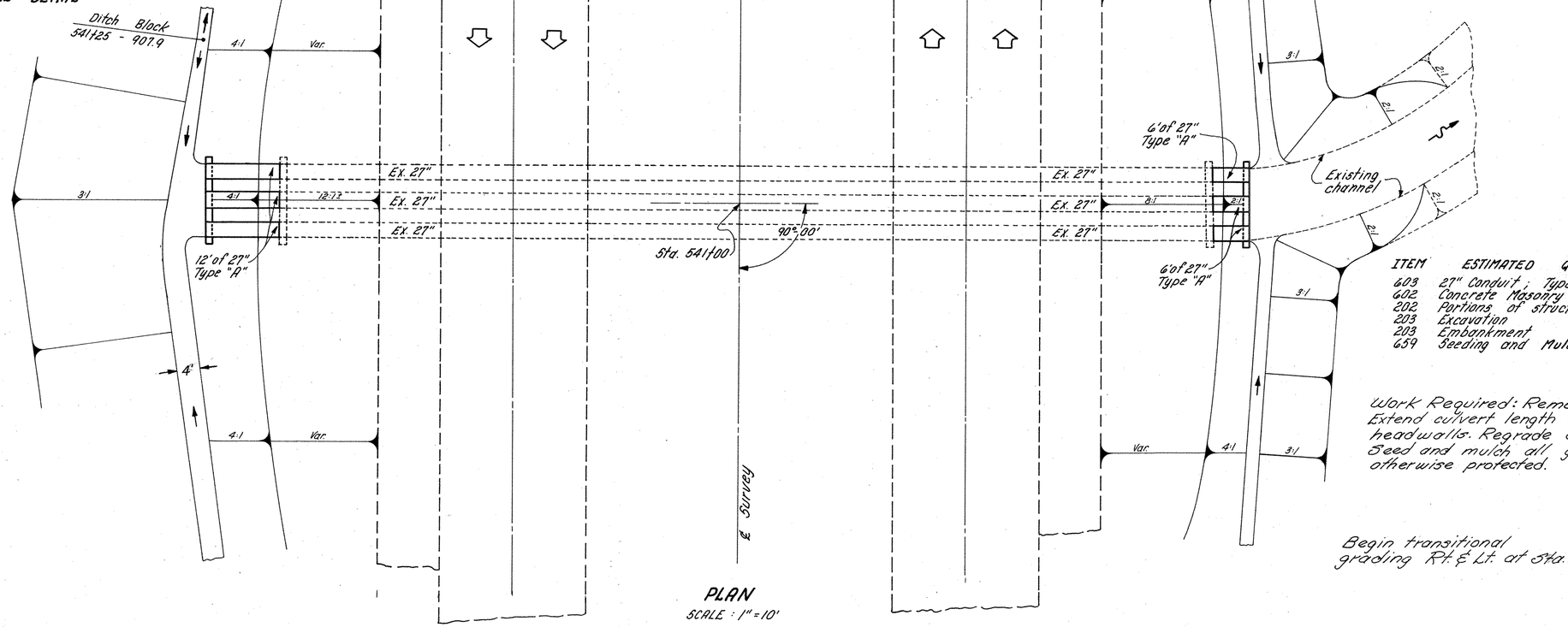
AUG.-75-497

NOTE: Co-ordinate work on this structure with AUG-75-0936. Earthwork, grading and seeding shall continue ahead on the right to the structure at station 544+00. Earthwork quantities for both structures on the right are broken at station 543+00. See sheet nr. 38 for details on AUG-75-0936.



CONCRETE HEADWALL DETAIL *

End Earthwork and seeding at Sta. 543+00, Lt.



PLAN

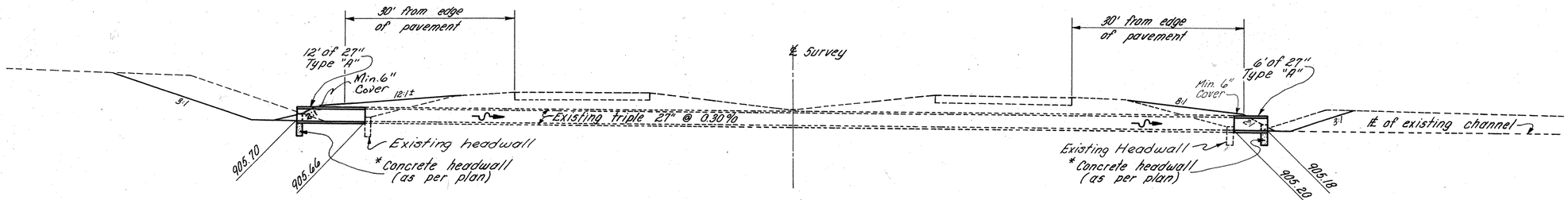
SCALE: 1" = 10'

ITEM	ESTIMATED QUANTITIES	
603	27" Conduit, Type "A", 706.02 CL II	- 54 Lin. Ft.
602	Concrete Masonry	- 3.34 Cu. Yd.
202	Portions of structures removed	- Lump
203	Excavation	- 1,105 Cu. Yd.
203	Embankment	- 1,067 Cu. Yd.
659	Seeding and Mulching	- 3,022 Sq. Yd.

Work Required: Remove existing headwalls. Extend culvert length and construct new headwalls. Regrade as shown and noted. Seed and mulch all graded areas not otherwise protected.

Begin transitional grading Rt. & Lt. at Sta. 539+00

DATUM LINE ELEVATION = 945.00



SECTION ALONG ℄ OF STRUCTURE

SCALE: 1"=10'

STRUCTURE STATION 541+00

	BY	DATE
DETAILED	JTS	9-78
DETAILS CHECKED	RR	10-78
DETAILS REVISED		

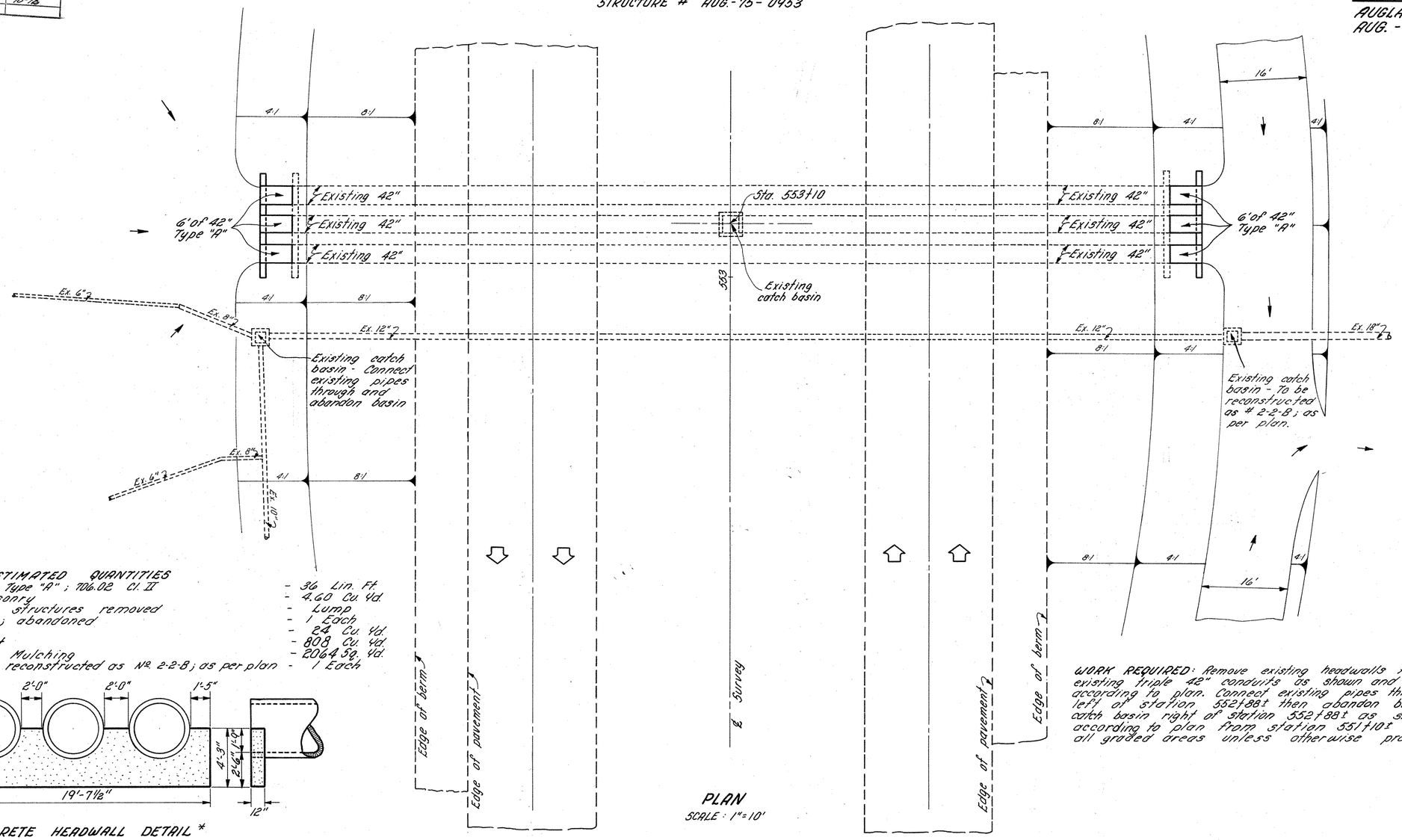
STRUCTURE STATION 553+10

STRUCTURE # AUG.-75-0953

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

48
191

AUGLAIZE COUNTY
AUG.-75-4.97



PLAN
SCALE: 1"=10'

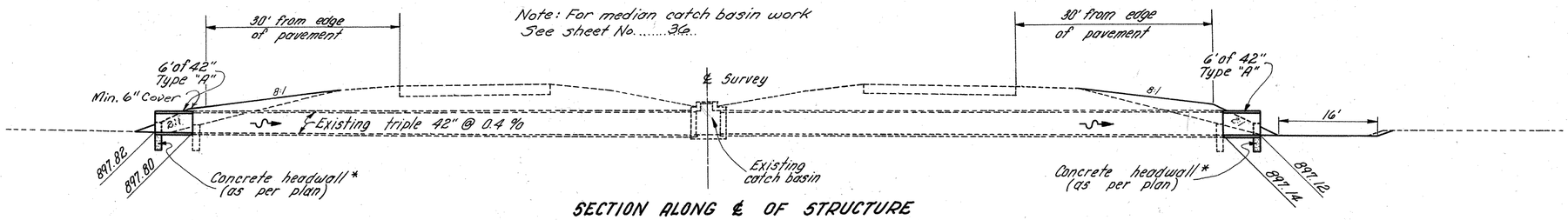
ESTIMATED QUANTITIES

603	42" Conduit; Type "A"; 706.02 Cl. II	- 36 Lin. Ft.
602	Concrete Masonry	- 4.60 Cu. Yd.
202	Portions of structures removed	- Lump
202	Catch Basin; abandoned	- 1 Each
203	Excavation	- 24 Cu. Yd.
203	Embankment	- 808 Cu. Yd.
659	Seeding and Mulching	- 2064 Sq. Yd.
604	Catch Basin; reconstructed as No. 2-2-B; as per plan	- 1 Each

CONCRETE HEADWALL DETAIL *

WORK REQUIRED: Remove existing headwalls from structure. Extend existing triple 42" conduits as shown and construct new headwalls according to plan. Connect existing pipes through existing catch basin left of station 552+88± then abandon basin. Reconstruct existing catch basin right of station 552+88± as shown. Transition grading according to plan from station 551+10± to 555+10±. Seed and mulch all graded areas unless otherwise protected.

DATUM LINE ELEVATION = 920.00



Note: For median catch basin work See sheet No. 3a.

SECTION ALONG ℄ OF STRUCTURE
SCALE: 1"=10'

	BY	DATE
DETAILED	JTS	9-78
DETAILS CHECKED	RR	10-78
DETAILS REVISED		

	BY	DATE
DETAILED	JTS	9-72
DETAILS CHECKED	RR	10-72
DETAILS REVISED		

STRUCTURE STATION 587+00

STRUCTURE # AUG.-75-1017

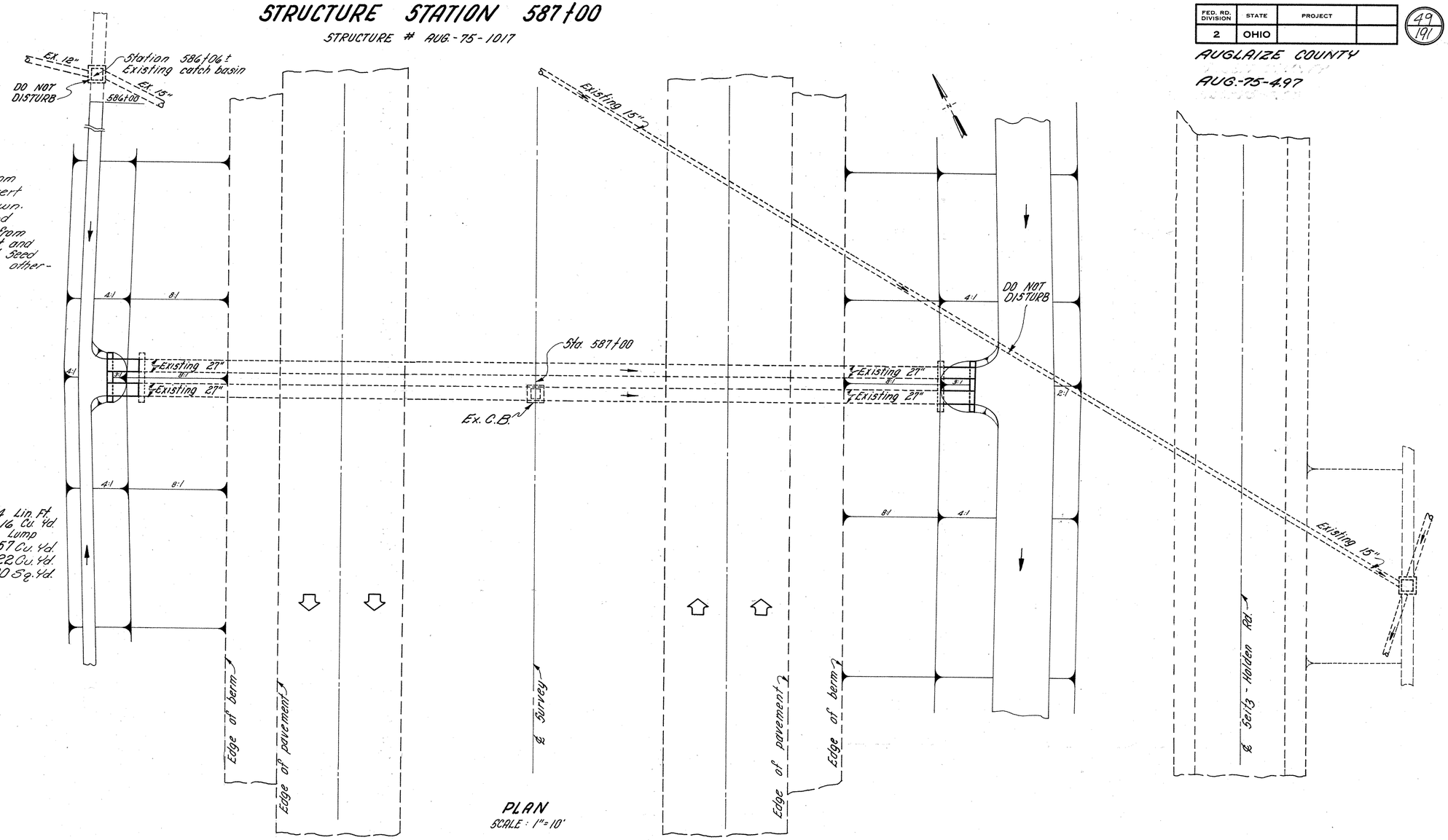
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG.-75-497

49/191

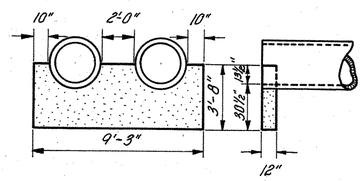
Work Required: Remove headwalls from existing culvert. Extend length of culvert and construct new headwalls as shown. Regrade as shown at the culvert and transition grading according to plan from station 585+00 to 589+00 on the right and from station 585+00 to 586+00 on the left. Seed and mulch all graded areas unless otherwise protected.



PLAN

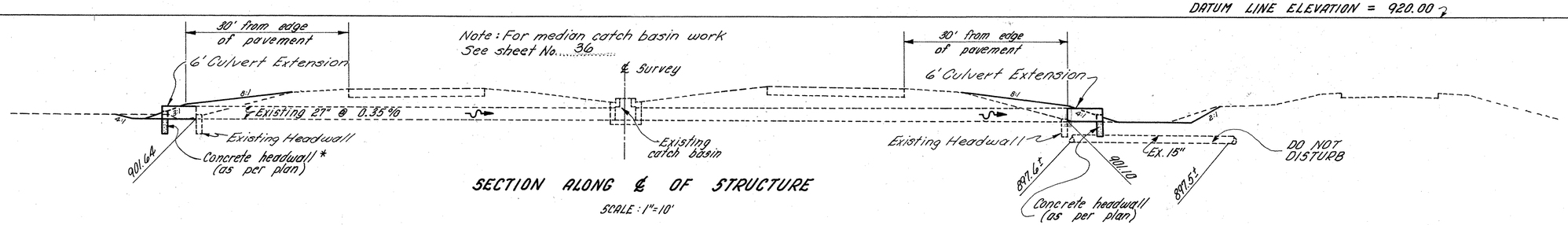
SCALE : 1"=10'

ITEM	ESTIMATED QUANTITIES	
603	27" Conduit ; Type "A" ; 706.02	- 24 Lin. Ft.
602	Concrete Masonry	- 2.16 Cu. Yd.
202	Portions of structures removed	- Lump
203	Excavation	- 57 Cu. Yd.
203	Embankment	- 522 Cu. Yd.
659	Seeding and Mulching	- 1890 Sq. Yd.



*CONCRETE HEADWALL DETAIL

DATUM LINE ELEVATION = 920.00



SECTION ALONG ℄ OF STRUCTURE

SCALE : 1"=10'

STRUCTURE STATION 587+00

	BY	DATE
DETAILED	JTS	9-72
DETAILS CHECKED	RR	10-72
DETAILS REVISED		

	BY	DATE
DETAILED	JTS	9-72
DETAILS CHECKED	RR	10-72
DETAILS REVISED		

STRUCTURE STATION 604+00

STRUCTURE # AUG.-75-1049

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG.-75-497

50 / 191

Co-ordinate work with structure # AUG.-75-1053

Conduit ahead of Wye carried with AUG.-75-1053

Work Required: Remove headwall from Inlet of existing culvert, extend culvert and construct new headwall as shown. Relocate 10" tile line as indicated. Transition earthwork involved with extension of culvert in 100 feet ahead and back of culvert. Seed and mulch all graded areas not otherwise protected.

No work to outlet of AUG.-75-1049. Outlet to be protected by Guard Rail.

Prop. No. 4 C.B. Prop. 12" Conduit see sheet 85

Outlet through w.a.l. of Ex. 21"

Existing twin 21"

Existing catch basin Cap and abandon

SEE X-SECTION SHEET No. 85 FOR DETAILS NOT SHOWN IN MEDIAN AREA

Existing overhead structure

Existing crib wall

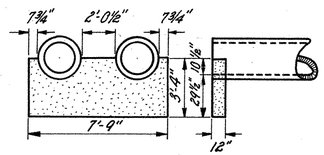
Buckland - Holden Rd.

Edge of berm

Edge of pavement

℄ Survey

ITEM	ESTIMATED QUANTITIES	
603	21" Conduit; Type "A", 706.02	- 24 Lin. Ft.
602	Concrete Masonry	- 0.85 Cu. Yd.
202	Portions of structures removed	- Lump
603	10" Conduit; Type "E"	122 Lin. Ft.
603	6" Conduit; Type "E"	8 Lin. Ft.
203	Excavation	12 Cu. Yd.
203	Embankment	126 Cu. Yd.
659	Seeding and Mulching	444 Sq. Yd.

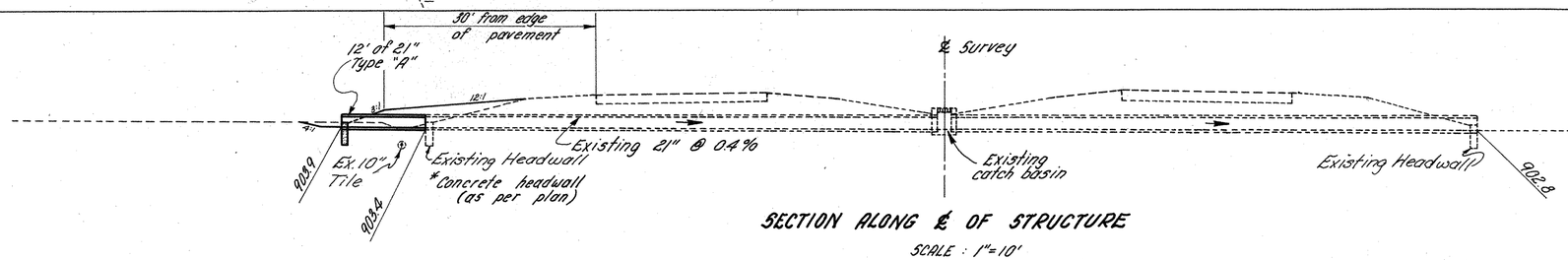


CONCRETE HEADWALL DETAIL *

PLAN

SCALE : 1"=20'

DATUM LINE ELEVATION = 920.00



SECTION ALONG ℄ OF STRUCTURE

SCALE : 1"=10'

STRUCTURE STATION 604+00

	BY	DATE
DETAILED	JTS	9-72
DETAILS CHECKED	RR	10-72
DETAILS REVISED		

STRUCTURE STATION 606+00

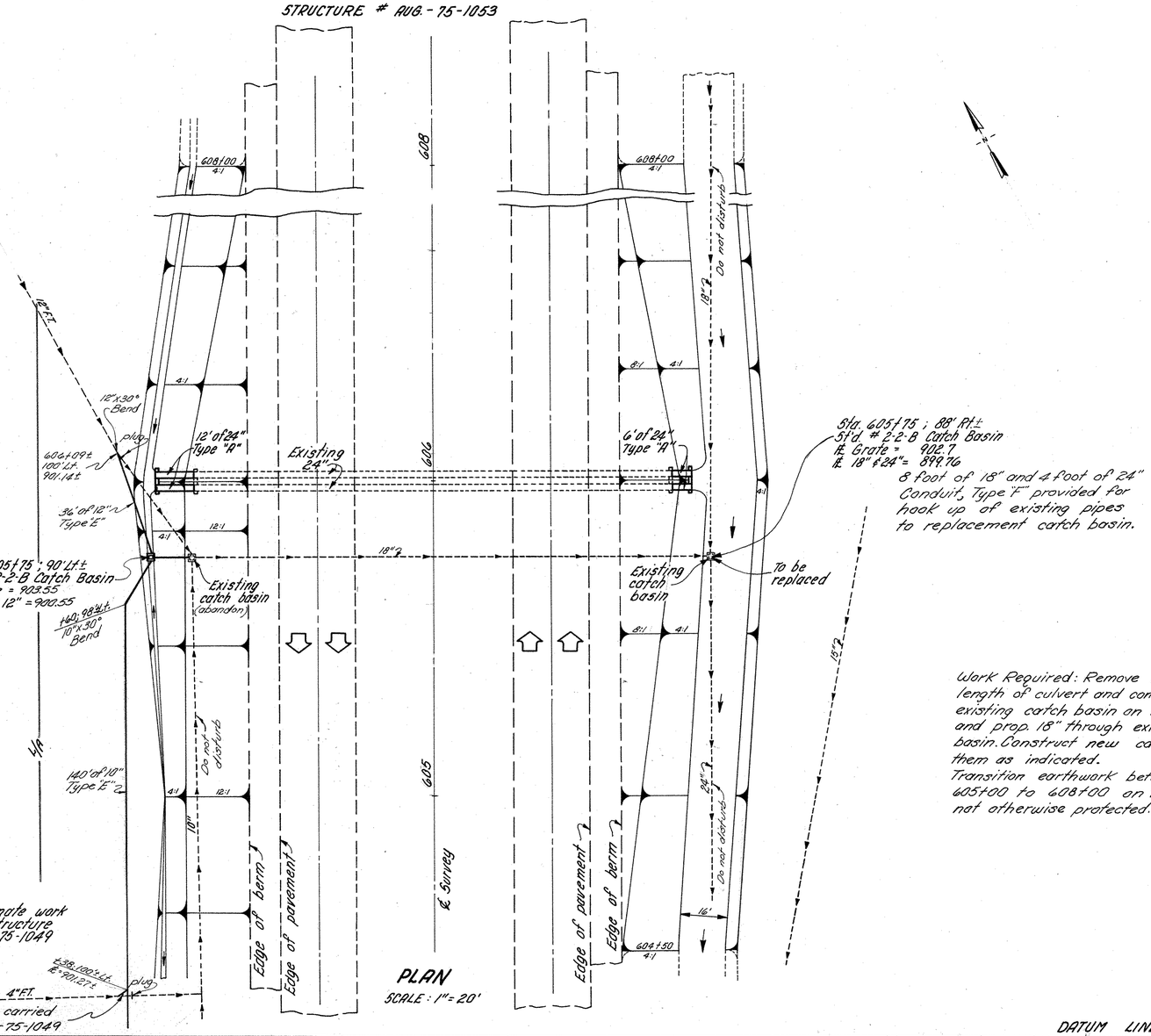
STRUCTURE # AUG.-75-1053

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

51
191

AUGLAIZE COUNTY

AUG.-75-4.97



PLAN

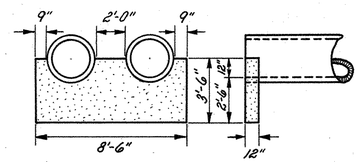
SCALE : 1" = 20'

Work Required: Remove headwalls from existing structure. Extend length of culvert and construct new headwalls as shown. Replace existing catch basin on right as indicated. Connect existing pipes and prop. 18" through existing catch basin and abandon the catch basin. Construct new catch basins and hook the existing pipes to them as indicated.
Transition earthwork between 604+50 and 608+00 on the right and 605+00 to 608+00 on the left. Seed and mulch all graded areas not otherwise protected.

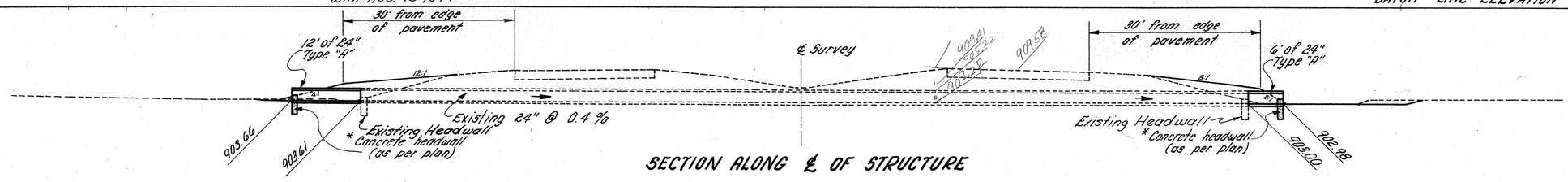
DATUM LINE ELEVATION = 920.00

ITEM ESTIMATED QUANTITIES

603	24" Conduit; Type "A"	-36	Lin. Ft.
602	Concrete Masonry	-1.90	Cu. Yd.
202	Portions of structures removed	- Lump	
603	10" Conduit; Type "E"	- 36	Lin. Ft.
603	12" Conduit; Type "E"	-140	Lin. Ft.
202	Catch Basin; abandoned	- 1	Each
603	18" Conduit; Type "F"	-16	Lin. Ft.
203	Excavation	- 59	Cu. Yd.
203	Embankment	-637	Cu. Yd.
659	Seeding and Mulching	-2120	Sq. Yd.
603	18" Conduit; Type "F"	- 8	Lin. Ft.
603	24" Conduit; Type "F"	- 4	Lin. Ft.
604	Catch Basin, 2-2-B	-2	Each



CONCRETE HEADWALL DETAIL*



SECTION ALONG ℄ OF STRUCTURE

SCALE : 1" = 10'

STRUCTURE STATION 606+00

	BY	DATE
DETAILED	JRS	8-72
DETAILS CHECKED	RR	10-72
DETAILS REVISED		

STRUCTURE STATION 645+00

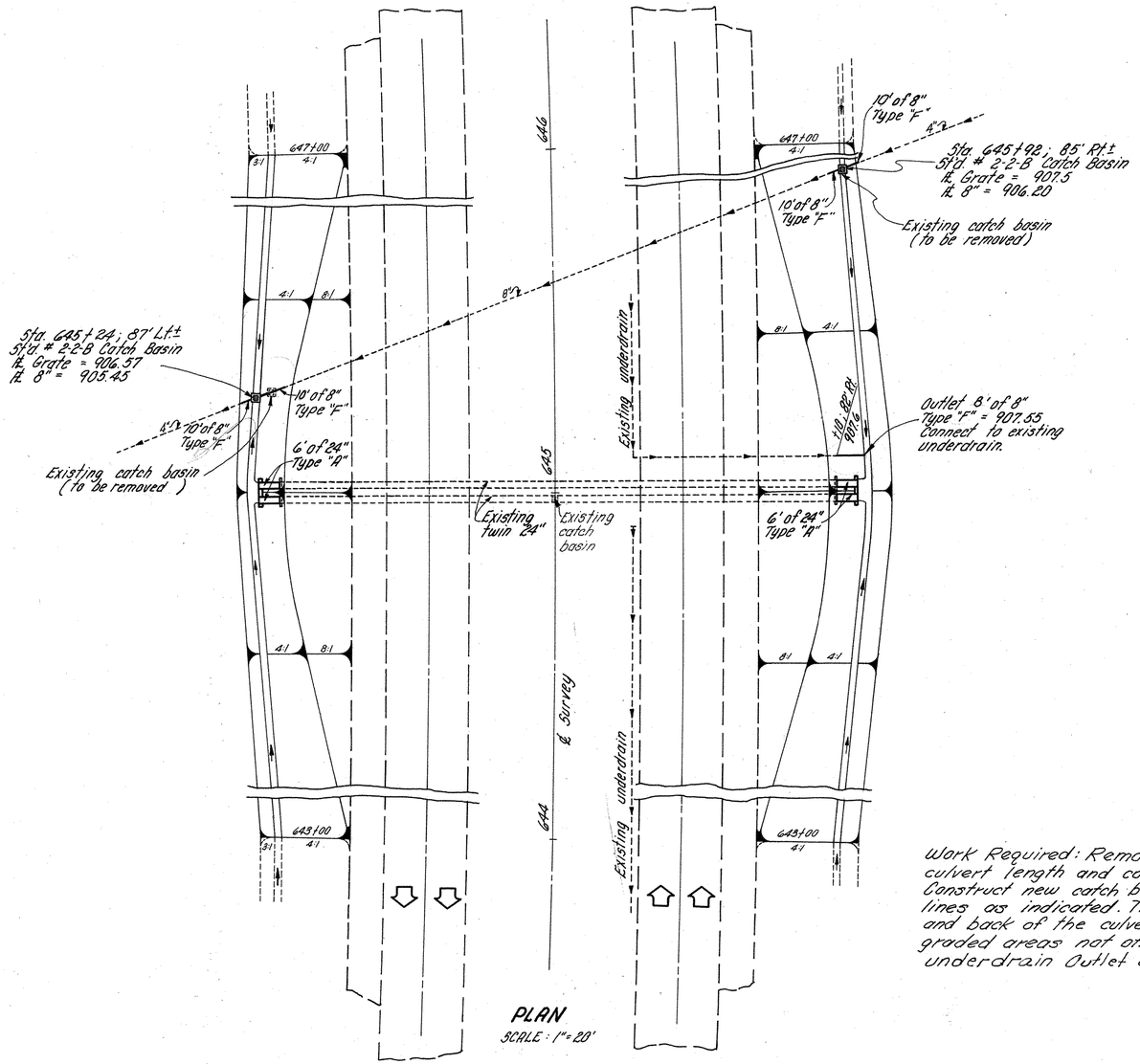
STRUCTURE # AUG-75-1127

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

52
191

AUGLAIZE COUNTY

AUG.-75-4.97



PLAN

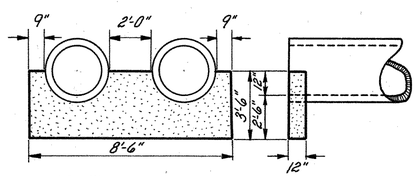
SCALE: 1"=20'

Work Required: Remove headwalls from culvert. Extend culvert length and construct new headwalls as shown. Construct new catch basins and connect to existing tile lines as indicated. Transition grading in 200 feet ahead and back of the culvert on both sides. Seed and mulch all graded areas not otherwise protected. Extend the underdrain Outlet as indicated.

DATUM LINE ELEVATION = 930.00

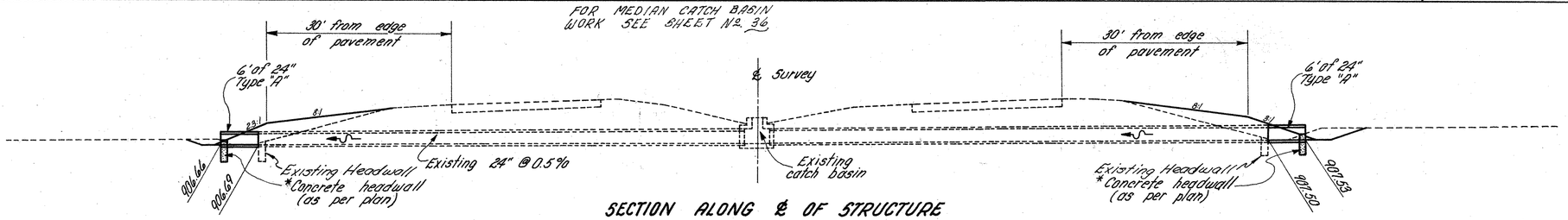
ESTIMATED QUANTITIES

ITEM		
603	24" Conduit; Type "A"	- 24 Lin. Ft.
602	Concrete Masonry	- 1.90 Cu. Yd.
202	Catch Basins removed	- 2 Each
202	Portions of structures removed	- Lump
604	Std. # 2-2-B Catch Basin	- 2 Each
603	8" Conduit; Type "F"	- 48 Lin. Ft.
203	Excavation	- 132 Cu. Yd.
203	Embankment	- 668 Cu. Yd.
659	Seeding and Mulching	- 1776 Sq. Yd.



CONCRETE HEADWALL DETAIL *

FOR MEDIAN CATCH BASIN WORK SEE SHEET No. 36



SECTION ALONG & OF STRUCTURE

SCALE: 1"=10'

STRUCTURE STATION 645+00

STRUCTURE STATION 684+00

STRUCTURE # AUG.-75-1201

	BY	DATE
DETAILED	JTS	9-1972
DETAILS CHECKED	RR	10-1972
DETAILS REVISED		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG-75-4.97

53 / 191

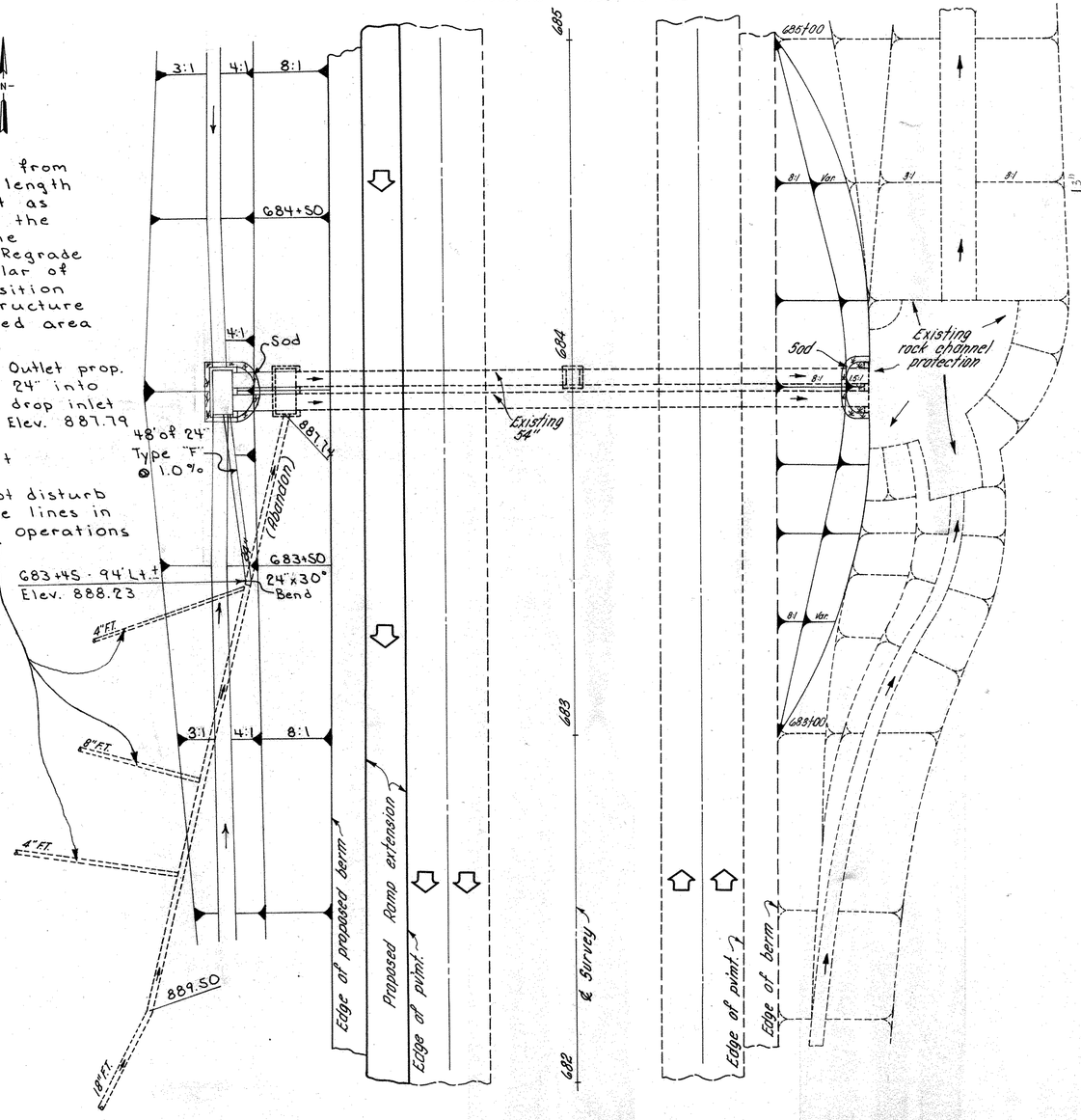
Work Required: Remove existing drop inlet from the existing structure. Extend the structure length at the inlet and construct a new drop inlet as shown. Place an 18" collar of sod around the pipes and inlet as indicated. Connect the existing 54" to the Proposed 54" extension. Regrade and seed the outlet as shown. Place 18" Collar of sod around pipes at outlet as shown. Transition earthwork in 100' ahead and back of structure at outlet and seed and mulch the regraded area where not otherwise protected.

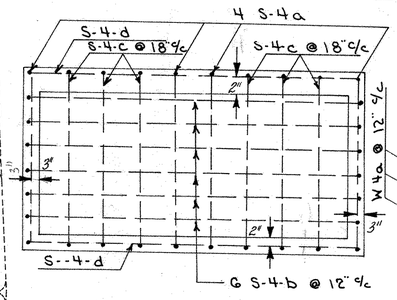
Note: For grading and seeding at the inlet see the cross sections Sheet No. 73.

Note: Do not disturb existing tile lines in regrading operations

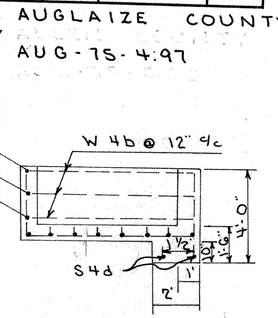
ITEM	ESTIMATED QUANTITIES	
603	54" Conduit; Type "A", 706.02	- 36 Lin. Ft.
603	24" Conduit; Type "F"	- 48 Lin. Ft.
602	Concrete Masonry	- 5.76 Cu. Yd.
* 509	Reinforcing Steel	- 1251 lbs.
203	Embankment	- 118 Cu. Yds.
202	Portions of structures removed	- Lump
660	Sodding	- 12 Sq. Yd.
659	Seeding and Mulching	- 310 Sq. Yds.

Quantities carried to sheet 35
*Quantity carried to Gen. Summary





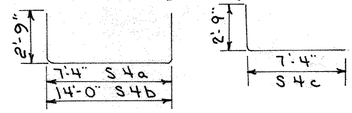
Drop Inlet Reinforcing Bar Detail

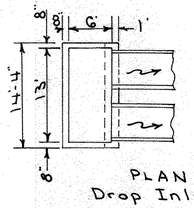


Drop Inlet Detail

Steel List					
REF. No.	No. OF BARS	SIZE	Lgth.	Wt.	Remark
S4a	4	½" ϕ	13'-10"	37.0	Bent
S4b	6	½" ϕ	19'-6"	78.0	Bent
S4c	6	½" ϕ	10'-1"	40.5	Bent
S4d	4	½" ϕ	14'-0"	31.9	Straight
W4a	3	½" ϕ	14'-0"	28.0	"
W4b	6	½" ϕ	7'-4"	29.4	"
Total 251.0					

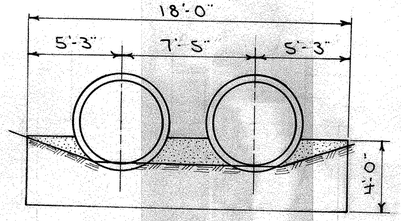
Bending Diagram



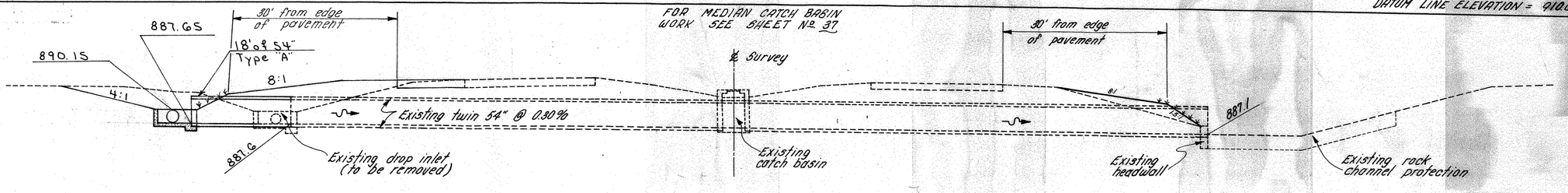


PLAN
Drop Inlet

CONCRETE HEADWALL DETAIL



DATUM LINE ELEVATION = 910.00



SCALE: 1"=10'

STRUCTURE STATION 684+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

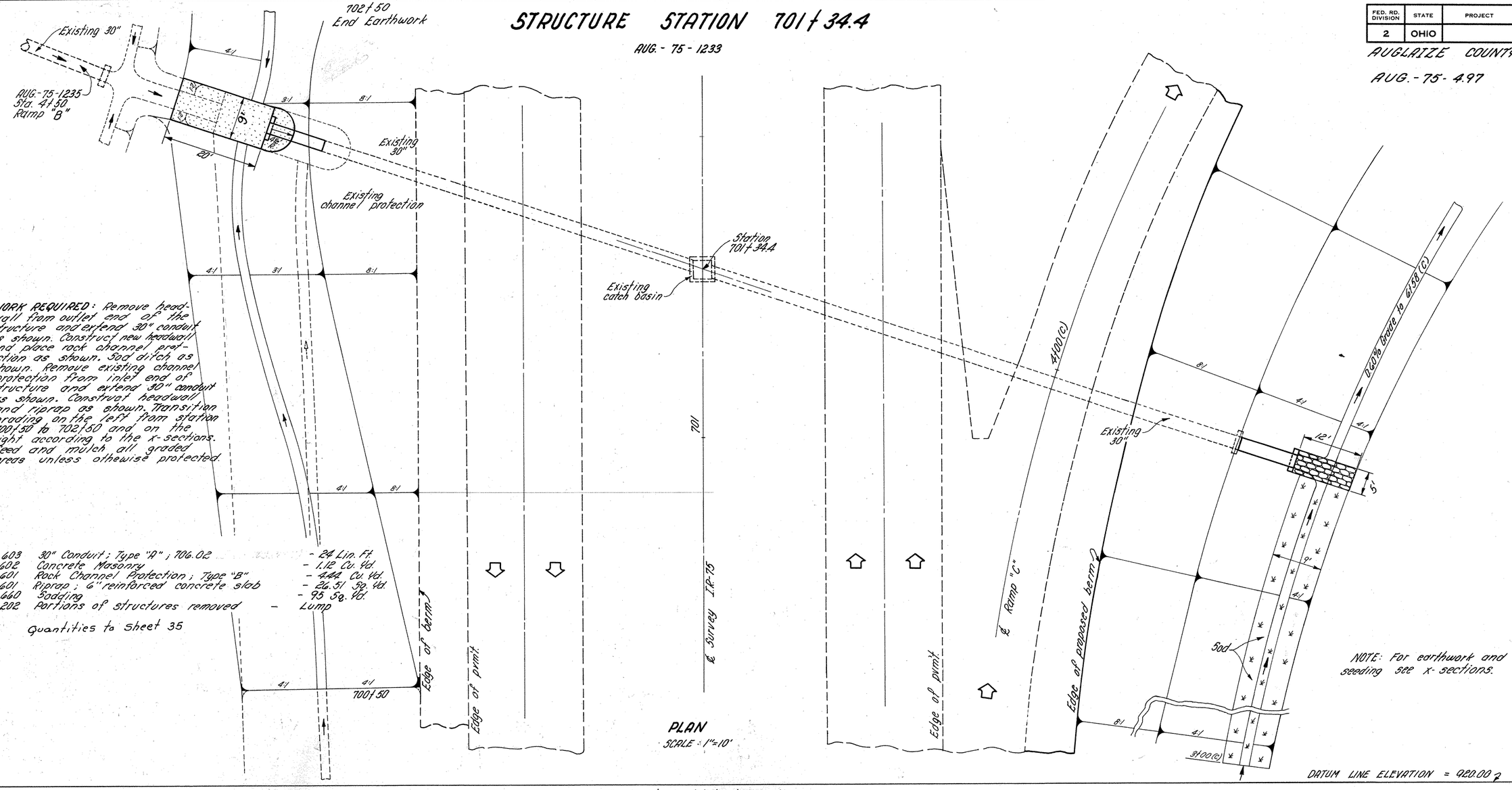
54
191

AUGLAIZE COUNTY

AUG.-75-4.97

STRUCTURE STATION 701+34.4

AUG.-75-1233



WORK REQUIRED: Remove headwall from outlet end of the structure and extend 30" conduit as shown. Construct new headwall and place rock channel protection as shown. Sod ditch as shown. Remove existing channel protection from inlet end of structure and extend 30" conduit as shown. Construct headwall and riprap as shown. Transition grading on the left from station 700+50 to 702+50 and on the right according to the x-sections. Seed and mulch all graded areas unless otherwise protected.

603	30" Conduit; Type "A"; 706.02	- 24 Lin. Ft.
602	Concrete Masonry	- 1.12 Cu. Yd.
601	Rock Channel Protection; Type "B"	- 4.44 Cu. Yd.
601	Riprap; 6" reinforced concrete slab	- 26.51 Sq. Yd.
660	Sodding	- 95 Sq. Yd.
202	Portions of structures removed	- Lump

Quantities to Sheet 35

PLAN

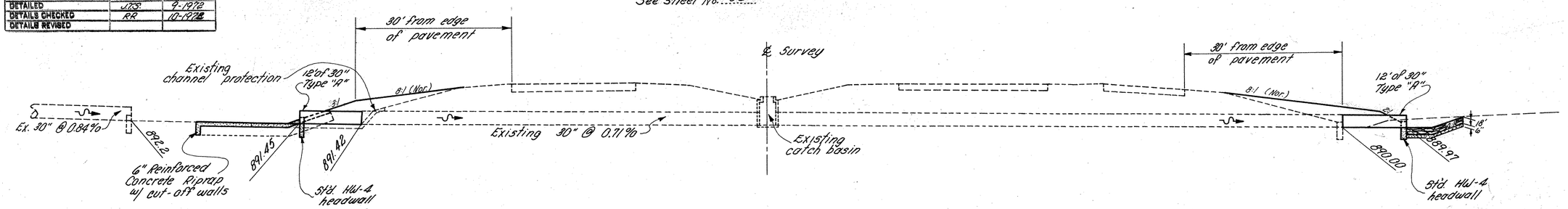
SCALE: 1"=10'

NOTE: For earthwork and seeding see x-sections.

DATUM LINE ELEVATION = 920.00 ?

	BY	DATE
DETAILED	JTS	9-1972
DETAILS CHECKED	RR	10-1972
DETAILS REVISED		

Note: For median catch basin work See sheet No. 36



STRUCTURE STATION 701+34.4

DETAILED	BY	DATE
DETAILS CHECKED		
DETAILS REVISED		

EARTHWORK TABLES

SHEET NUMBER	STATION LOCATION FROM	TO	SIDE	203 EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION CU. YDS.	203 EMBANKMENT CU. YDS.	659 SEEDING & MULCHING SQ. YDS.	601 Rock Channel Prot. Type "B" Cu.Yds.	660 Sodding Sq.Yd.	603 8" Conduit Type "2" Lin. Ft.
56	317+10	320+00	Lt.	14	372	579			
57	331+50	337+50	Lt.	0	1528	1678			
58	338+50	340+50	Lt.	52	50	511			
59	345+00	353+00	Lt.	647	3325	4528			
60	353+50	371+25	Lt.	630	1657	3317			
61	371+50	373+25	Lt.	46	0	352			
62	407+00	417+00	Lt.	2995	1242	5766			
63	428+50	429+25	Lt.	0	0	0			
65	435+00	444+00	Lt.	1742	2476	6691			
66	444+50	453+00	Lt.	281	3568	5371			
67	460+00	465+00	Lt.	199	445	1621			
68	465+50	470+00	Lt.	492	1282	2877	12	550	
69	470+00	478+00	Lt.	7534	378	5612	24		
70	490+00	497+00	Lt.	424	3039	4272			
71	497+50	505+00	Lt.	584	2386	4434			
72	513+00	604+50	Lt.	118	4	685			
73	678+00	687+50	Lt.	2049	1245	5213			
74	688+00	700+00	Lt.	598	246	2341			10
75	691+50	694+00	Lt.	6	250	1647			
76	694+50	697+00	Lt.	0	140	702			
77	317+00	320+00	M.	53	124	921			
78	320+00	326+00	M.	64	164	1334			
79	326+25	327+50	M.	69	2	429			
80	336+00	340+50	M.	0	336	1001			
81	369+00	376+00	M.	21	687	1581			
82	428+00	433+50	M.	27	484	1866			
83	446+00	451+98	M.	11	56	667			
84	511+00	515+25	M.	85	381	1434			
85	600+50	605+50	M.	17	318	1053			
86	695+50	701+34	M.	0	470	1060			
87	324+00	331+00	Rt.	0	0	0			
88	331+50	334+50	Rt.	8	2171	1463			
89	335+00	338+48	Rt.	283	332	1364			
90	342+00	360+00	Rt.	0	0	0			
91	348+00	358+00	Rt.	715	4772	5367			
92	369+50	371+25	Rt.	30	0	269			
93	407+74	415+50	Rt.	2777	917	6092			30
94	416+00	424+00	Rt.	3771	525	5519			
95	424+50	429+00	Rt.	23	909	2320			
96	429+50	442+00	Rt.	2845	1215	6517			20
97	432+50	436+50	Rt.	1145	519	2662			
98	446+00	453+00	Rt.	0	518	2065			
99	460+00	463+50	Rt.	151	437	1880			
100	464+00	473+00	Rt.	4191	1207	5954	700		
101	483+50	485+50	Rt.	295	275	1273			
102	486+00	492+50	Rt.	100	1999	2016			
103	493+00	499+00	Rt.	319	2750	2721			
104	499+50	507+00	Rt.	556	1437	2861		1030	
105	511+50	603+50	Rt.	219	172	1647			
106	604+00	605+00	Rt.	0	0	0			
107	692+00	701+00	Rt.	651	1287	3924			
	Sub Total			36,837	48,097	125,457	736	1580	60

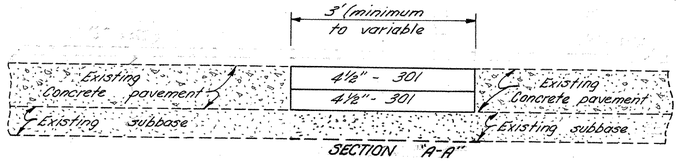
SHEET NUMBER	STATION LOCATION FROM	TO	SIDE	203 EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION CU. YDS.	203 EMBANKMENT CU. YDS.	659 SEEDING & MULCHING SQ. YDS.	660 Sodding Sq.Yd.	603 8" Conduit Type "2" Lin. Ft.	601 Rock Channel Prot. Type "B" Cu. Yds.
	I-75 & U.S.R. 33 INTERCHANGE								
109	11+00 (A)	15+50 (A)	Rt.	0	67	391			
	I-75 & C.R. 33A INTERCHANGE								
111	864+25	865+50	Rt&L	13	884	1222			
112	866+00	870+00	Rt&L	0	1294	1589			
113	870+50	872+39	Rt&L	0	3264	1855	150		
114	8+00 (C)	11+00 (C)	Lt.	57	1308	1662	100		
115	6+50 (D)	8+60 (D)	Rt&L	0	769	1499			
116	5+50 (A)	8+50 (A)	Lt.	0	2535	1667			
	5+50 (B)	9+50 (B)	Lt.	0	3454	2445	300		
	I-75 & S.R. 67								
118	114+25	118+00	Rt&L	255	5290	5662	275		
119	122+00	126+00	Lt.	12	1670	2194			
120	0+00	4+00 (A)	Rt.	214	1910	3126			
121	12+50 (A)	15+00 (A)	Lt.	64	156	1089			
	3+00 (B)	5+00 (B)	Lt.	10	224	817			
122	2+50 (C)	6+00 (C)	Rt.	—	—	—			
	5+74 (C)	10+00 (C)	Lt.	71	1839	2708			
123	0+00 (D)	4+10 (D)	Lt.	625	229	2423			
	I-75 & NATIONAL ROAD INTERCHANGE								
125	8+45	10+30	Rt&L	59	1161	1778			
126	12+70	17+25	Rt.	0	1727	2978			
127	4+00 (C)	15+50 (C)	Rt.	13	5689	4120			
	ROADSIDE REST AREA RAMPS ~ WEST SIDE								
128	3+00	6+50	Rt&L	137.35	56	4306			
129	4+50	8+01.52	Rt&L	4046	108	2079			
130	8+19	10+00	Rt&L	465	40	807			
	ROADSIDE REST AREA RAMPS ~ EAST SIDE								
131	27+61.35	31+25	Rt&L	0	516	863			
132	31+50	34+80.96	Rt&L	131	2593	2186			
133	31+50	34+00	Rt&L	3	791	359			
134	34+19	38+00	Rt&L	5	2020	996			
	Sub-Total Col.-2			19778	39594	50811	825		
	Sub-Total Col.-1			36,837	48,097	125,457	1580	60	736
	TOTALS (Normal Participation)			56,615	87,691	176,268	2405	60	736

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

55
191

AUGLAIZE COUNTY

AUG.-75-4.97



SECTION "A-A"

Note: The existing concrete pavement shall be sawed full depth.

ITEM ESTIMATED QUANTITIES FOR

301	Bituminous Aggregate Base:	12.5	C.Y.
301	Bituminous Aggregate Base:	12.5	C.Y.
202	Pavement removed as per plan	100	S.Y.

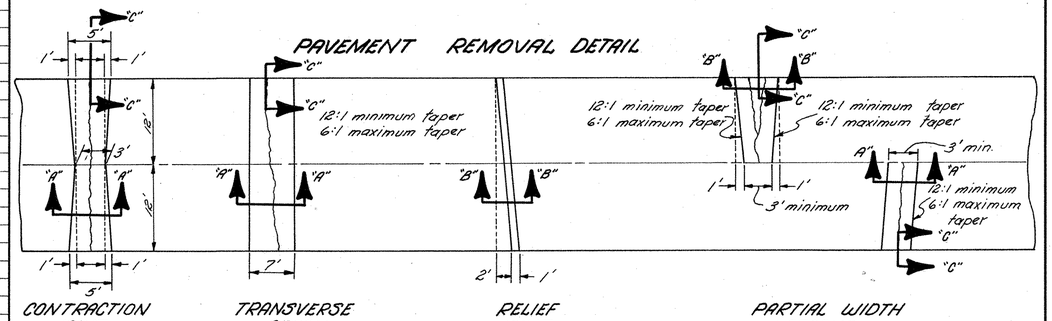
(See Lower Right For Berms)

301 Bituminous Aggregate Base: 11.2 C.Y.

605 Aggregate Drains: 182 L.F.

TOTALS CARRIED TO GENERAL SUMMARY (100% STATE COST)

PAVEMENT REMOVAL DETAIL

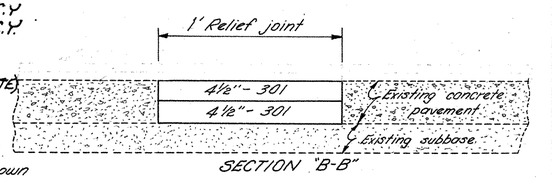


CONTRACTION JOINT | TRANSVERSE CRACK | RELIEF JOINT | PARTIAL WIDTH CRACKS

ITEM ESTIMATED QUANTITIES FOR RELIEF JOINTS

301	Bituminous Aggregate Base:	54.6 C.Y.
301	Bituminous Aggregate Base:	54.6 C.Y.
202	Pavement Removed, as per plan	436.8 S.Y.

TOTALS CARRIED TO GENERAL SUMMARY (100% STATE)



SECTION "B-B"

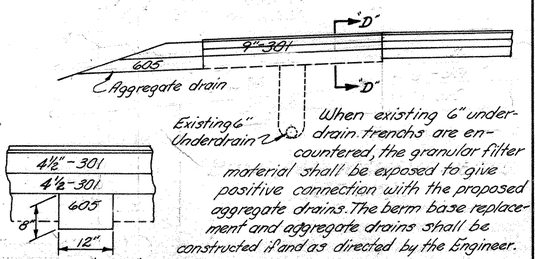
RELIEF JOINT DETAIL

PAVEMENT REMOVAL NOTES

The existing deteriorated pavement shall be removed as shown by one of the details above: the contraction joint detail, the transverse crack detail or the partial width crack detail as directed by the Engineer.

In addition to these removals, relief joints shall be constructed at each end of all bridges at a distance of (80') eighty feet plus or minus (10') ten feet from the bridges. These relief joints shall be constructed at least (10') ten feet from any contraction joint and shall be constructed as shown above.

See proposal Note: "FULL DEPTH RIGID PAVEMENT REMOVAL AND FLEXIBLE PAVEMENT REPLACEMENT"



Section "D-D"

When existing 6" underdrain trenchs are encountered, the granular filter material shall be exposed to give positive connection with the proposed aggregate drains. The berm base replacement and aggregate drains shall be constructed if and as directed by the Engineer.

BASE REPLACEMENT DETAIL FOR BERMS - SECTION "C-C"

Rev. 7-5-74

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WDM.	2-73	JAW	2-73				
TEMPLATE	CEK	2-73						
DITCHES								
AREAS	W.M.	2-73						
VOLUMES	W.M.	2-73						
SEEDING	W.M.	2-73						

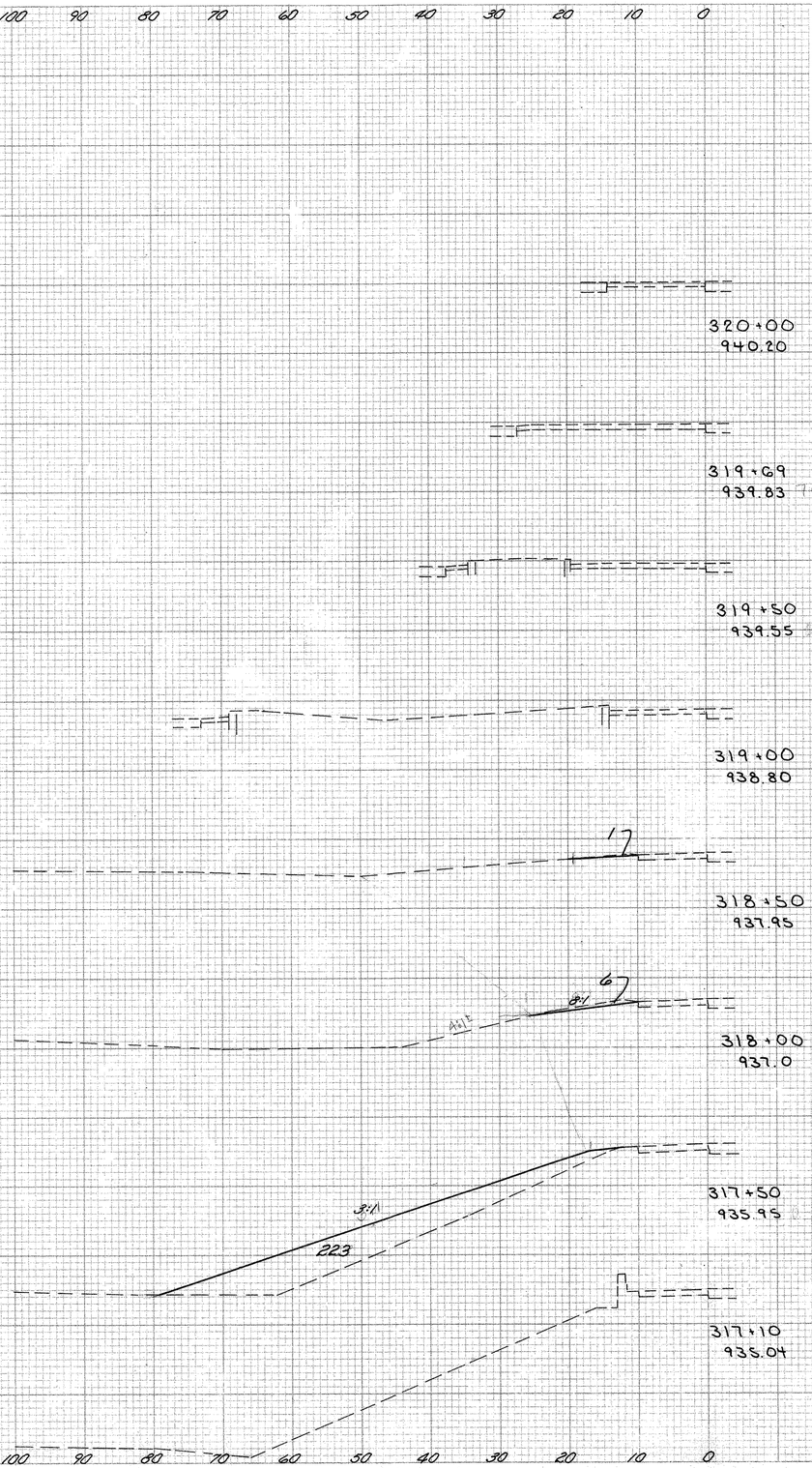
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

56
191

AUGLAIZE COUNTY

AUG.-75-4.97

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
0	0				
42	15			1	0
97	20			7	0
269	77			6	207
171	0			0	165
0	0			0	0
579	Total Carried To Sheet No. 55			14	372



Totals carried To Sheet No. 55

X-SECTIONS STA. 317+10 to 320+00 (LEFT) IR-75

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WM.	7-72	JF	7-72				
TEMPLATE	RP	7-72	CEK	1-73				
DITCHES	RP	7-72	CEK	1-73				
AREAS	RP	7-72	JF	8-72				
VOLUMES	RP	7-72	JF	8-72				
SEEDING	RP	7-72	JF	8-72				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG. - 75 - 4.97

57
191

SEEDING		END AREA		VOLUME		SEEDING	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL	END WIDTH	SQ. YDS.
0		0	0				
117				0	115		
42		0	62				
283				0	156		
60		0	107				
397				0	378		
83		0	302				
406				0	483		
63		0	221				
300				0	300		
45		0	103				
175				0	96		
0		0	0				
1678	Total carried to Sheet No. 55			0	1528	Totals carried to Sheet No. 55	

Zero Section 3367+50

335+50 915.75

Included in Ramp C

912.0

335+00 917.25

914.0

334+50 918.75

916.0

334+00 920.25

918.6

333+50 921.75

Zero Section 920.8

333+00 923.25

332+50 924.75

332+00 926.25

331+50 927.75

Work Required:
To eliminate use of guard rail grade as shown. Seed and Mulch graded areas.

906.4±

337+50 909.83

907.0±

337+00 911.25

907.8±

336+50 912.75

908.00±

336+00 914.25

X-SECTIONS STA 331+50 to 337+50 (LEFT) IR-75

SEEDING	
END WIDTH	SQ. YDS.
0	51
37	110
42	108
36	85
25	56
15	40
14	40
15	21
0	
	511

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WMB	7-72	JAW	7-72				
TEMPLATE	KR	7-72	CEK	1-73				
DITCHES	KR	7-72						
AREAS	KR	7-72	LE	8-72				
VOLUMES	KR	7-72	LE	8-72				
SEEDING	KR	7-72	LE	8-72				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

58
191

AUGLAIZE COUNTY

AUG.-75-4.97

110 100 90 80 70 60 50 40 30 20 10 0

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
341+00 Zero Section	0	0		
			5	6
340+50 904.88 +28.5 End G.R.	11	14		
			15	14
340+25 905.06 AUG-75-0549	21	17		
			18	14
340+00 905.29	17	12		
			8	11
339+75 905.56	1	11		
			2	5
339+50 905.86	3	0		
			2	0
339+25 906.20	2	0		
			2	0
339+00 906.60	3	0		
			2	0
Zero Section 338+75 907.03	0	0		
337+91 Begin G.R. 338+50 907.51				
Earthwork totals carried to Sheet N° 55			52	50

Estimated Quantities

602	Concrete Masonry	0.25 Cu. Yds.
603	15" Conduit Type "A"	12 Lin. Ft.
202	Portions of Structures Removed	Lump

Work Required:
Remove endwall from existing structure. Extend structure as shown and construct standard HW-4 headwall.

Quantities for structure carried to sheet N° 35

Work Required:
Sta. 338+50 to 339+50 regrade as shown for Guard Rail Flare bench. Ahead grade for structure extension. Seed and Mulch graded areas.

Total carried to Sheet N° 55

X-SECTIONS STA. 338+50 TO 340+50 (LEFT) I.R.-75

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	7-72	JRS	8-72				
TEMPLATE	RR	7-72	CEK	1-73				
DITCHES	RR	7-72	CEK	1-73				
AREAS	W.M.	9-72	TS	10-72				
VOLUMES	W.M.	9-72	TS	10-72				
SEEDING	W.M.	9-72	TS	10-72				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

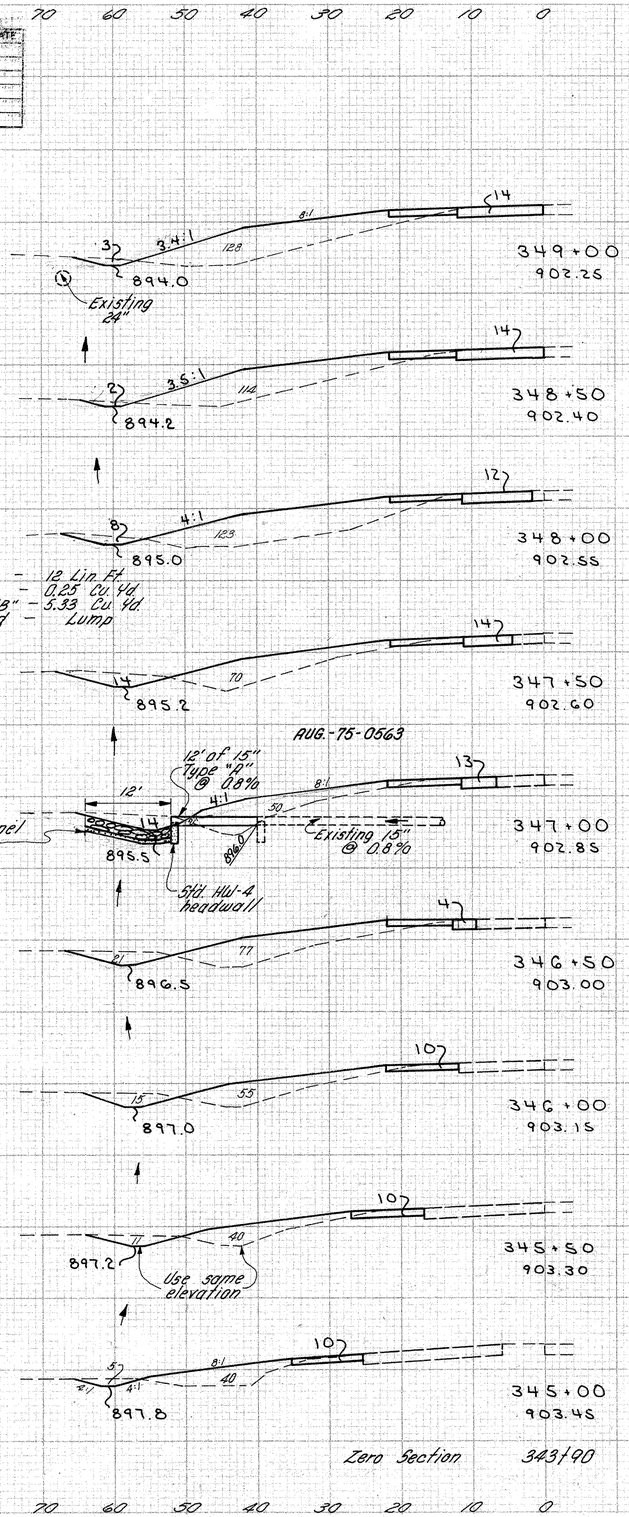
59
191

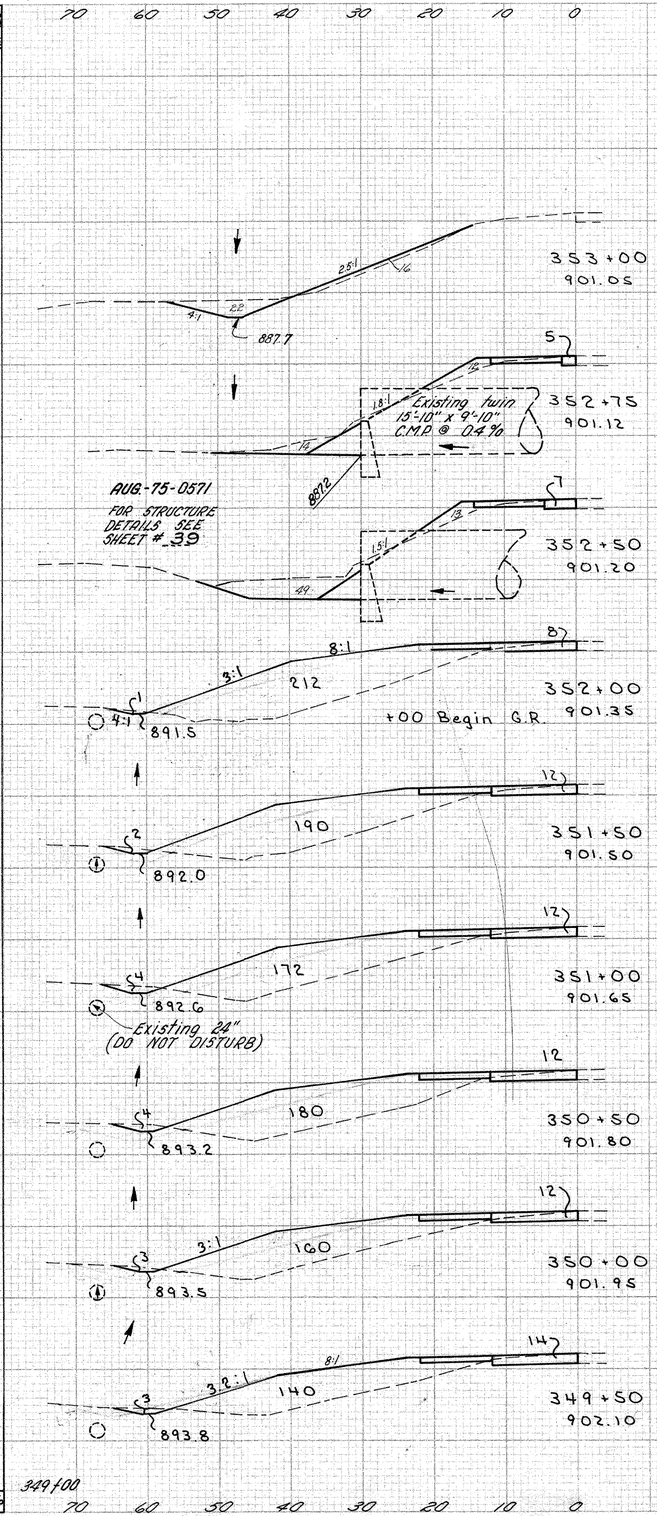
AUGLAIZE COUNTY

AUG.-75-4.97

SEEDING END WIDTH	SEEDING SQ. YDS	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL	SEEDING End Width	SEEDING Sq. Yds.
51		17	128				
	278			30	224		47
49		16	114				127
	275			34	220		44
50		20	123				124
	289			45	179		46
52		28	70				258
	292			51	111		48
53		27	50				269
	283			48	118		49
49		25	77				269
	261			46	122		48
45		25	55				286
	236			43	88		55
40		21	40				297
	203			34	74		52
33		15	40				294
	201			31	81		54
0		0	0				292
	2312 TOTAL			362	1217		2216

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
22	16		
		19	13
19	12		
		35	12
56	13		
		60	209
9	212		
		22	372
14	190		
		28	335
16	172		
		30	326
16	180		
		29	315
15	160		
		30	278
17	140		
		32	248
17	128		
	285	2108	



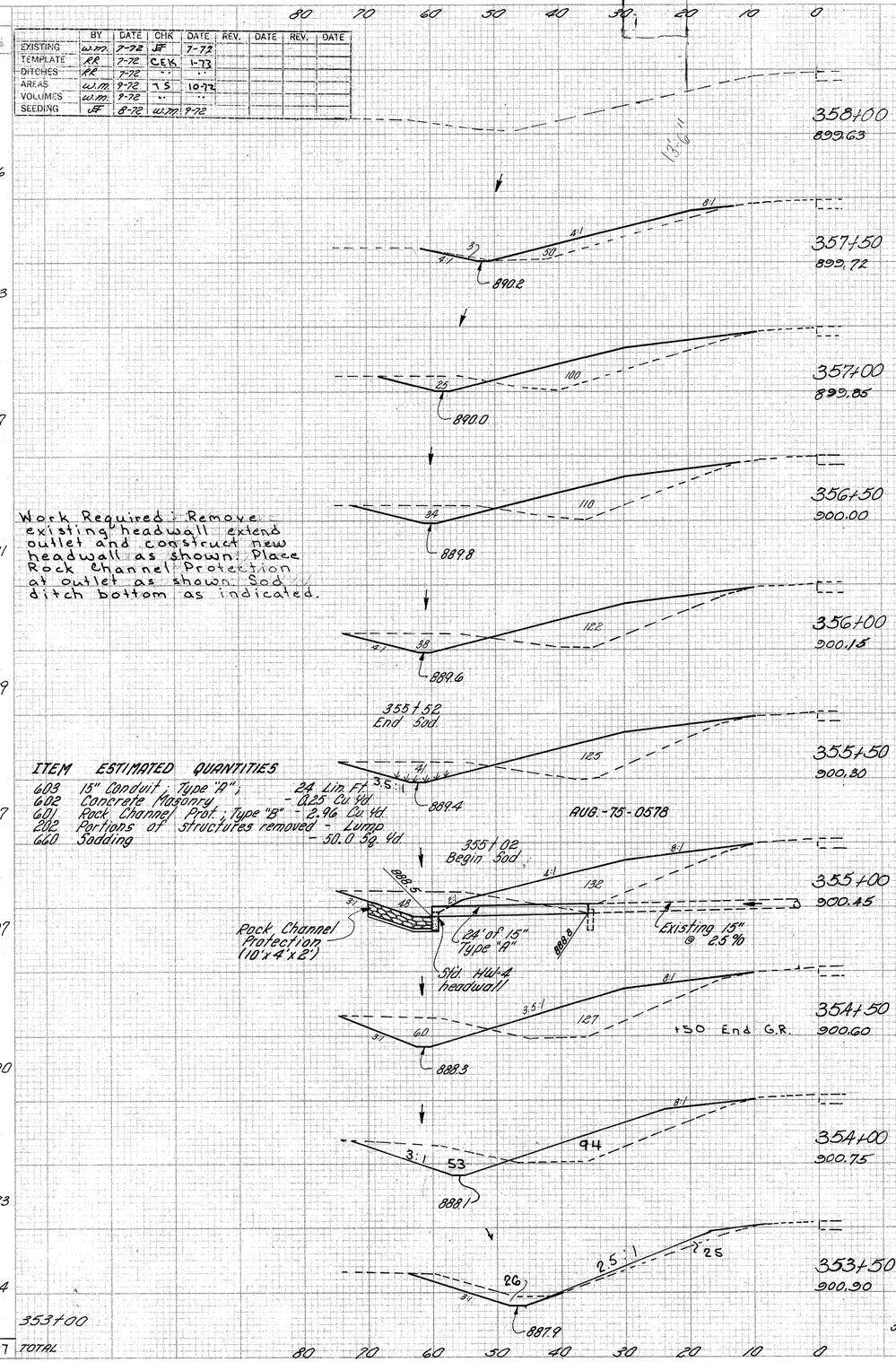


X-SECTIONS STA. 345+00 TO 353+00 (LEFT) IR-75

Total to Sheet 55

SEEDING	
END WIDTH	SQ. YDS.
0	
156	
56	
333	
64	
367	
68	
381	
69	
389	
71	
397	
71	
397	
72	
400	
72	
283	
30	
214	
47	
3317	TOTAL

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	7-72	JF	7-72				
TEMPLATE	RR	7-72	CEK	1-73				
DITCHES	RR	7-72	"	"				
AREAS	W.M.	9-72	"	10-72				
VOLUMES	W.M.	9-72	"	"				
SEEDING	JF	8-72	W.M.	9-72				



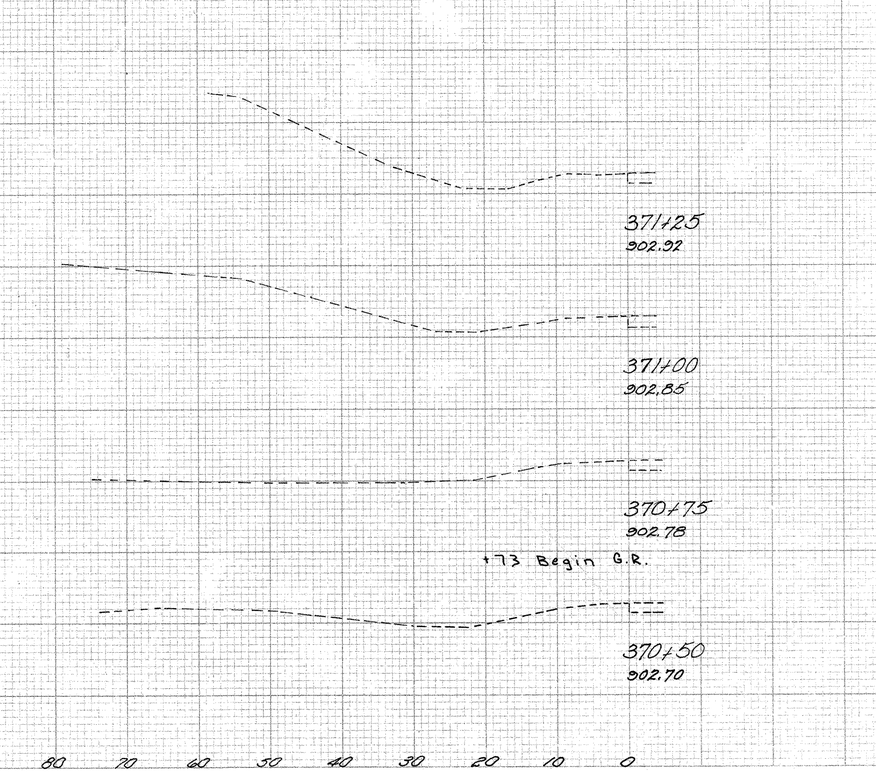
ITEM ESTIMATED QUANTITIES

603	15" Conduit; Type "A"	24 Lin. Ft.
602	Concrete Masonry	- 0.25 Cu. Yd.
601	Rock Channel Prot.; Type "B"	- 2.96 Cu. Yd.
202	Portions of structures removed	- Lump
660	Sodding	- 50.0 Sq. Yd.

Work Required: Remove existing headwall extend outlet and construct new headwall as shown. Place Rock Channel Protection at outlet as shown. Sod ditch bottom as indicated.

END AREA		VOLUME		SEEDING	
CUT	FILL	CUT	FILL	END WIDTH	SQ. YDS.
0	0				
		3	47		
3	50				
		26	139		
25	100				
		55	195		
34	110				
		67	216		
38	122				
		73	229		
41	125				
		83	238		
48	132				
		100	240		
60	127				
		105	205		
53	94				
		73	110		
26	25				
		45	38		
353+00	22	16			
TOTAL		630	1657		

X-SECTIONS STA. 353+50 TO 358+00 (LEFT) I.R.-75



X-SECTIONS STA. 370+50 TO 371+25 (LEFT) I.R.-75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

60
191

AUGLAIZE COUNTY
ALLEN COUNTY
AUG.-75-4.97
ALL.-75-0.00

END AREA		VOLUME	
CUT	FILL	CUT	FILL

SEEDING	90	80	70	60	50	40	30	20	10	0

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WM	7-72	CFT	7-72				
TEMPLATE	RB	8-72	CEK	1-73				
DITCHES	"	"	"	"				
AREAS	JAW	1-73	WM	1-73				
VOLUMES	"	"	"	"				
SEEDING	"	"	"	"				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG - 75 - 4.90

61
191

END WIDTH	SQ. YDS.
0	
	28
20	
	56
20	
	60
23	
	64
23	
	63
22	
	56
18	
	25
0	
	352

373+25 Zero Section

67
8:1
+85.5 End Guard Rail
373+00
903.45

72
372+75
903.38

103
372+50
903.30

117
372+25
903.23

87
372+00
903.15

67
8:1
371+75
903.08

371+50
903.00
Zero Section

370+73 Begin Guard Rail

Total to Sheet 55

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	0		
		30	
60			
		60	
70			
		80	
100			
		100	
110			
		90	
80			
		70	
60			
		30	
00			
		460	

Total to Sheet 55

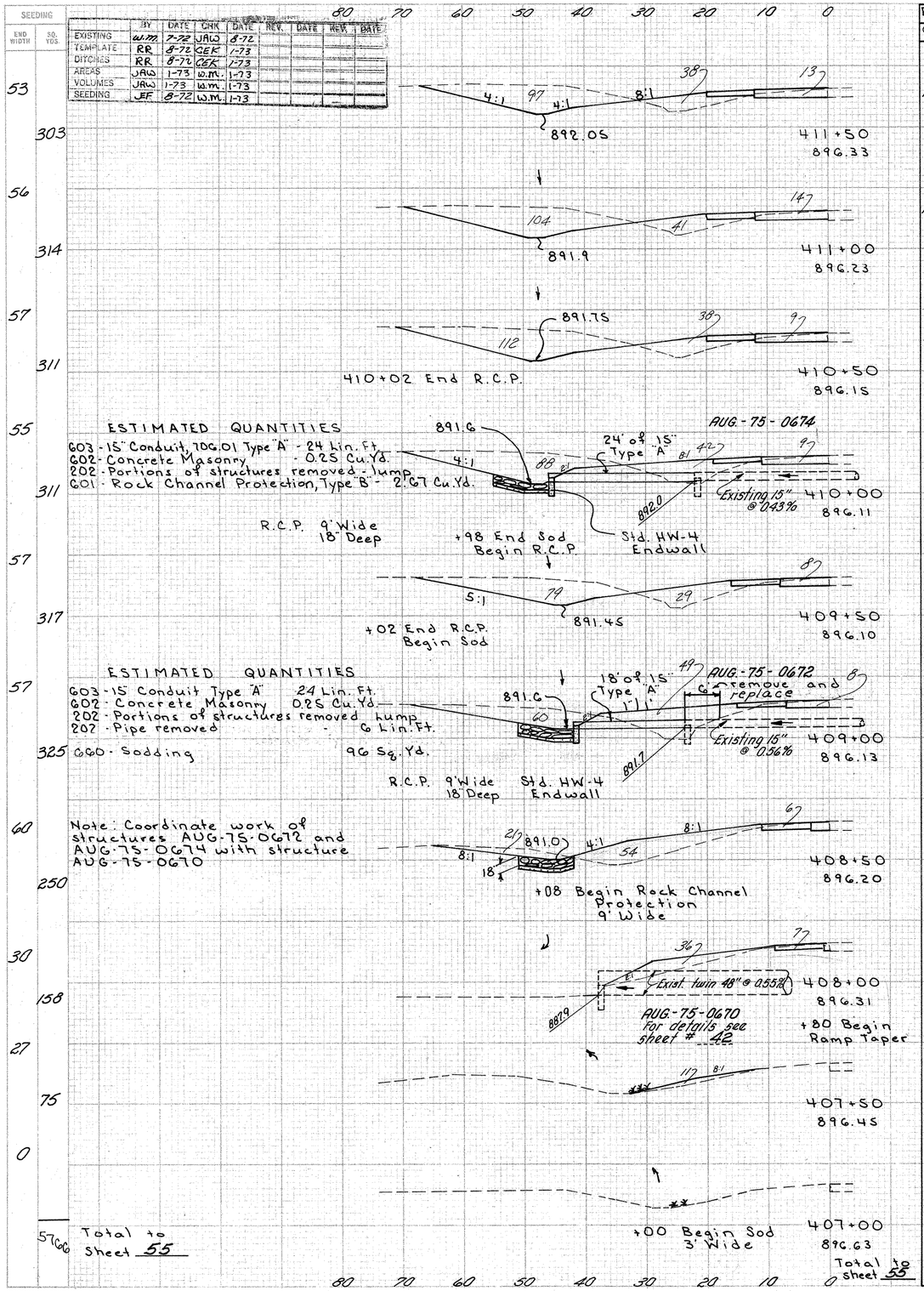
X-SECTIONS STA. 371+50 to 373+00 (LEFT) IR-75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

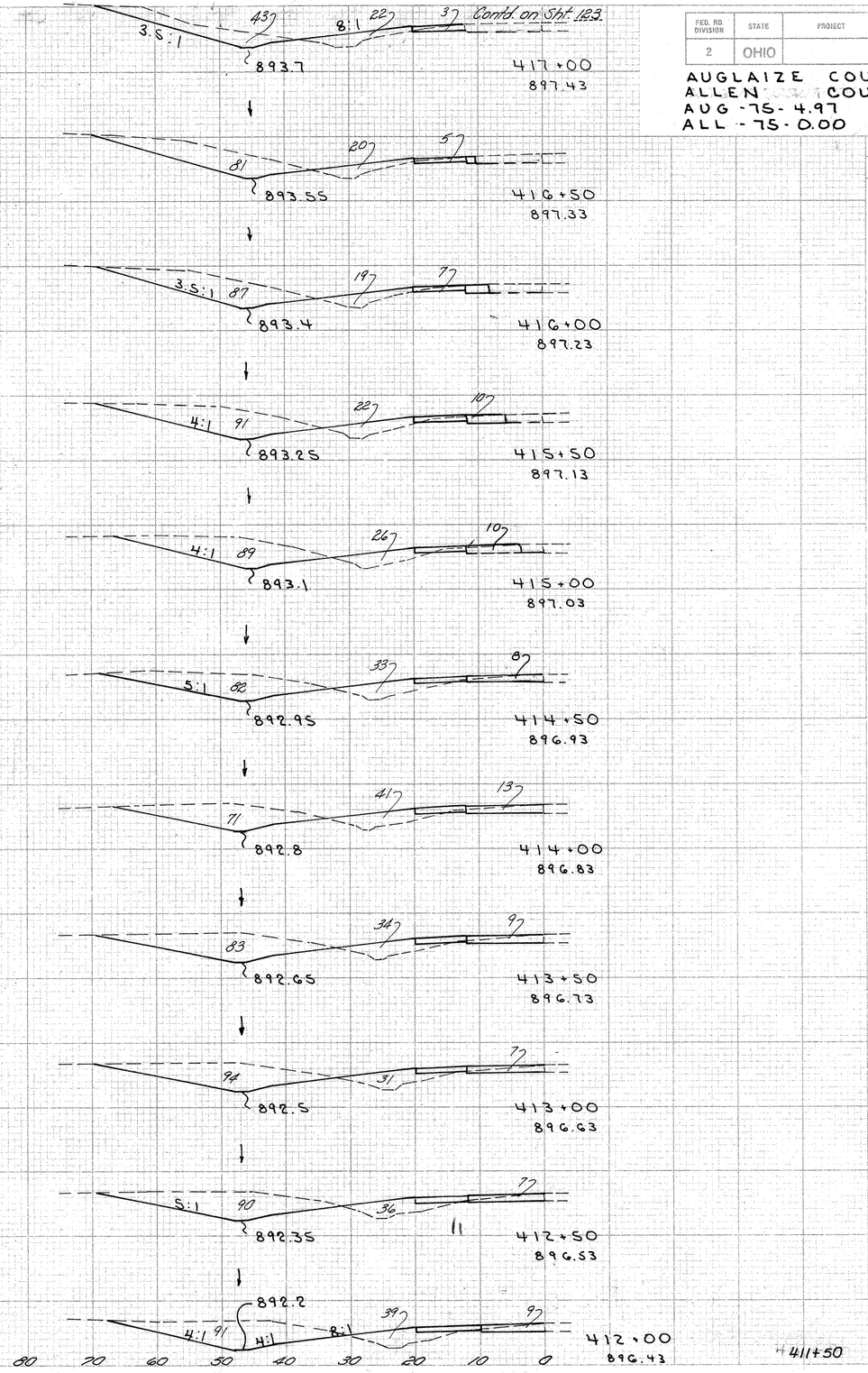
62
191

AUGLAIZE COUNTY
ALLEN COUNTY
AUG-75-4.97
ALL-75-0.00

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	7-72	JAW	8-72				
TEMPLATE	RR	8-72	CEK	1-73				
DITCHES	RR	8-72	CEK	1-73				
AREAS	JAW	1-73	W.M.	1-73				
VOLUMES	JAW	1-73	W.M.	1-73				
SEEDING	JEF	8-72	W.M.	1-73				



End Area Cut	End Area Fill	Volume Cut	Volume Fill	Seeding End Width	Seeding Sq. Yds.
110	38			54	300
		211	73	54	297
118	41				
		222	73	53	297
121	38				
		202	74	54	292
97	42				
		170	65	51	289
87	29				
		144	72	53	292
68	49				
		88	96	52	294
27	54				
		32	84	54	300
7	36				
		6	44	54	300
0	11				
		0	10	54	297
0	0				
				53	294
		2995	1242	53	



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
46	22		
		122	39
86	20		
		167	36
94	19		
		180	38
101	22		
		185	45
99	26		
		175	55
90	33		
		161	69
84	41		
		163	70
92	34		
		172	67
94	38		
		177	69
97	36		
		182	70
100	39		
		194	72
110	38		

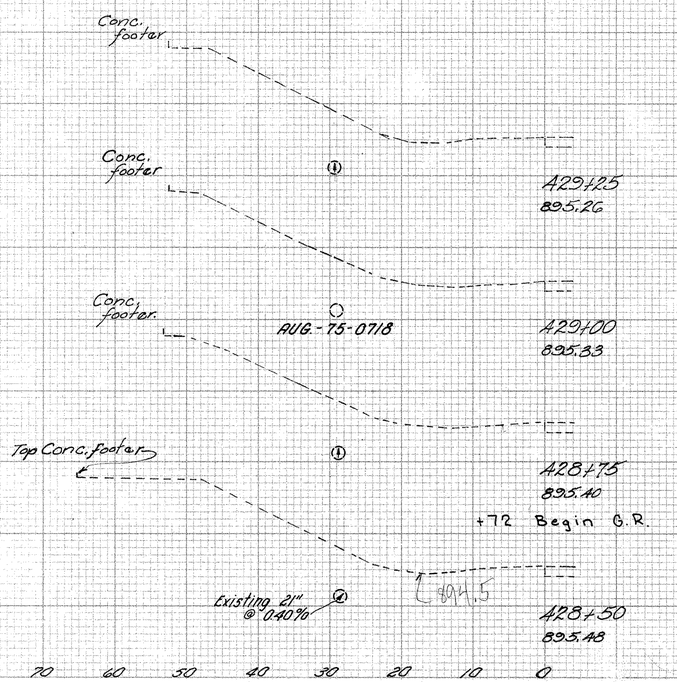
411+50

X-SECTIONS STA. 407+00 TO 417+00 (LEFT) I.R.-75

SEEDING		70	60	50	40	30	20	10	0
END WIDTH	SQ. YDS.								

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WJM	7-72	JF	7-72				
TEMPLATE	RR	7-72	CEK	1-73				
DITCHES	RR	7-72	CEK	1-73				
AREAS	RR	7-72	JF	8-72				
VOLUMES	RR	7-72	JF	8-72				
SEEDING	RR	7-72	JF	8-72				

No work this sheet



X-SECTIONS STA 428+50 TO 429+25 (LEFT) TR-25

END AREA		VOLUME		SEEDING	
CUT	FILL	CUT	FILL	END WIDTH	SQ. YDS.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG-75-4.97

63
191

END AREA		VOLUME	
CUT	FILL	CUT	FILL

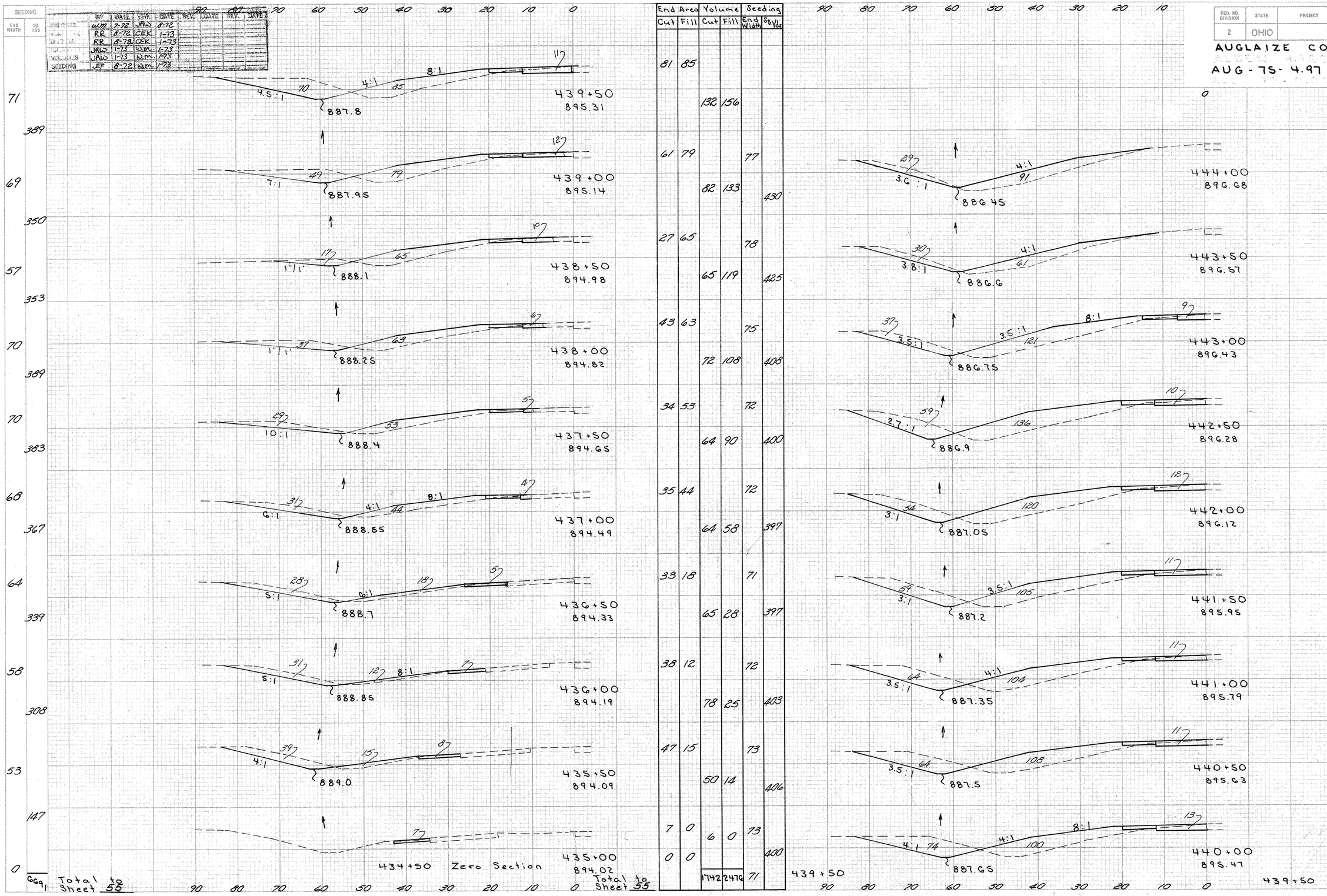
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

65/191

AUGLAIZE COUNTY

AUG-75-4.97

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
[illegible]	WM	7-72	JAW	8-72				
[illegible]	RR	8-72	CEK	1-73				
[illegible]	RR	8-72	CEK	1-73				
[illegible]	JAW	1-73	WM	1-73				
VOLUMES	JAW	1-73	WM	1-73				
SEEDING	JEF	8-72	WM	1-73				



X-SECTIONS STA. 435+00 TO 444+00 (LEFT) I.R.-75

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	8-72	JEF	8-72				
TEMPLATE	RR	11-72	CEK	1-73				
DITCHES	RR	11-72	CEK	1-73				
AREAS	W.M.	1-73	JAW	1-73				
VOLUMES	W.M.	1-73	JAW	1-73				
SEEDING	W.M.	1-73	JAW	1-73				

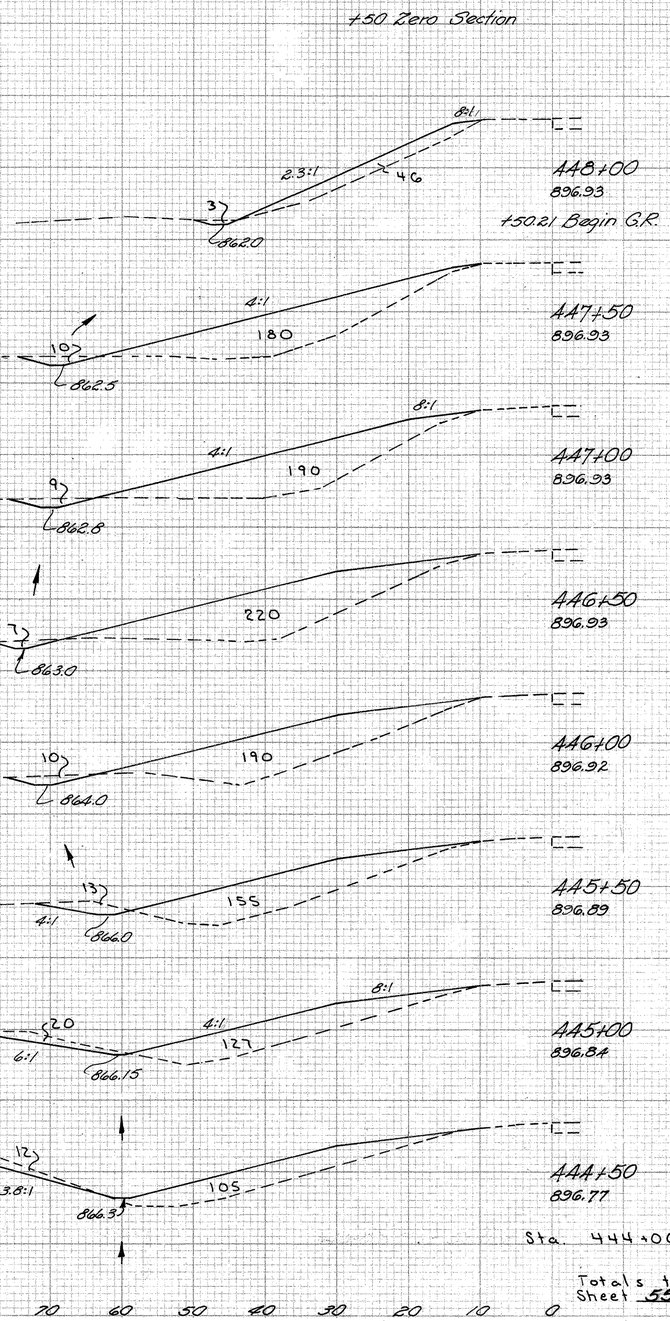
FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

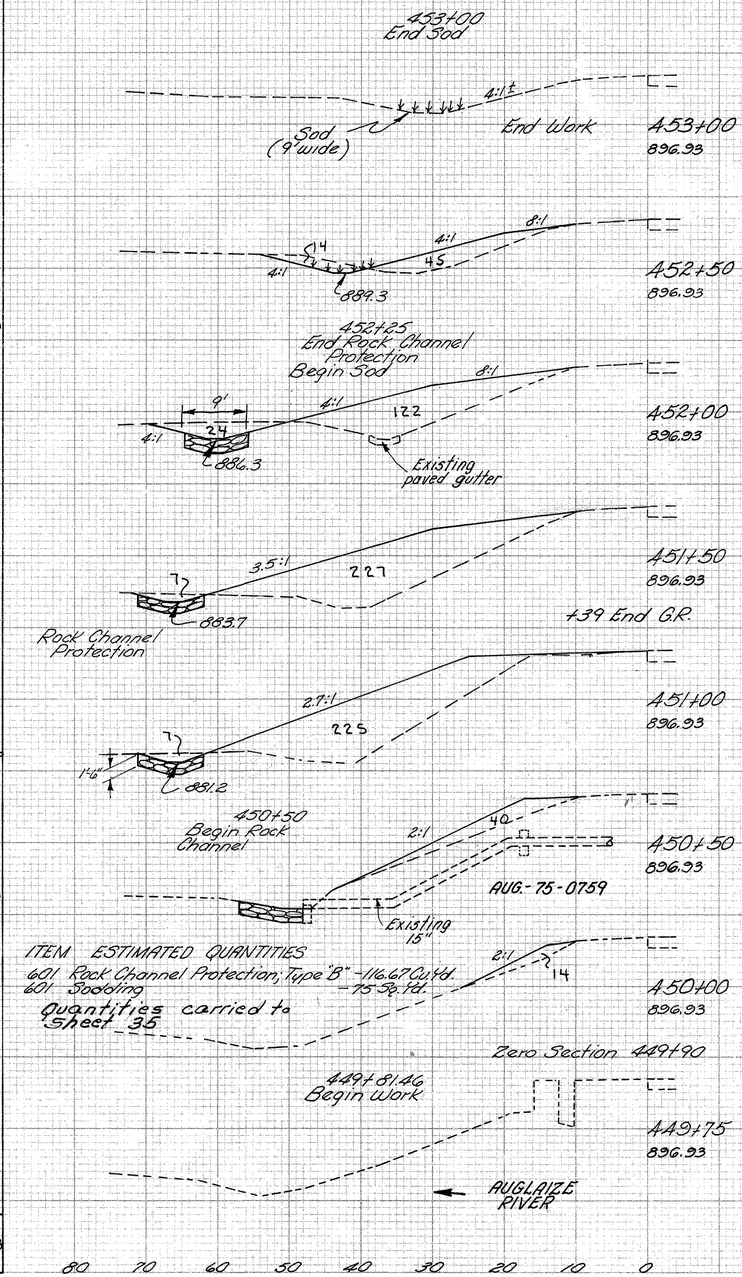
66/191

AUGLAIZE COUNTY

AUG.-75-4.97

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL	SEEDING END WIDTH	SEEDING SQ. YDS.
0		0	0				
				3	43		
	144	3	46			0	
52				12	210		153
	356						
76		10	180			55	
	425			18	343		350
77		9	190			71	
	436			15	379		400
80		7	220			73	
	439			16	379	406	
78		10	190			73	
	419			22	320	306	
73		13	155			37	
	433			31	261	178	
83		20	127			27	
	464			30	215	15	
84		12	105			0	
	447			36	182		
77		29	91				
	3563			183	2332		1808





END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	0		
		13	42
14	45		
		36	153
24	122		
		29	323
7	227		
		13	419
7	225		
		7	246
0	40		
		0	50
0	14		
		0	3
0	0		
		98	1236

X-SECTIONS STA 444+50 to 448+00 (LEFT) IR-75

X-SECTIONS STA 449+75 to 453+00 (LEFT) IR-75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

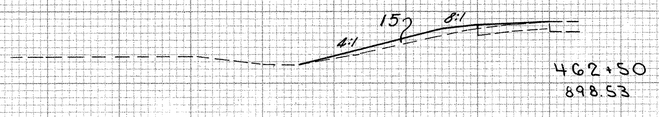
AUGLAIZE COUNTY

AUG-75-4.97

67
191

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WTM	2-73	JAW	2-73				
TEMPLATE	CEK	2-73	RR	3-73				
DITCHES	CEK	2-73	RR	3-73				
AREAS	WTM	2-73	CFH	4-73				
VOLUMES	WTM	2-73	CFH	4-73				
SEEDING	WTM	2-73	CFH	4-73				

SEEDING END WIDTH	SEEDING SQ. YDS.	End Area CUT	End Area FILL	Volume CUT	Volume FILL	Seeding
30		0	15			64
	83			0	14	412
0		0	0			66
						315
						66
						358
						63
						272
						35
						181
						30
Total		199	445	1621		



462+50
898.53

Zero Section

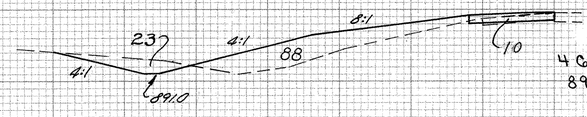
462+00
898.33

461+50
898.13

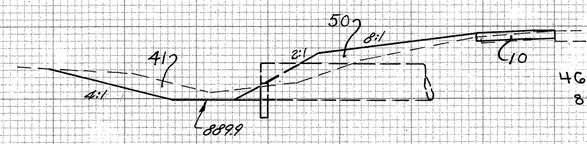
461+00
897.93

460+50
897.73

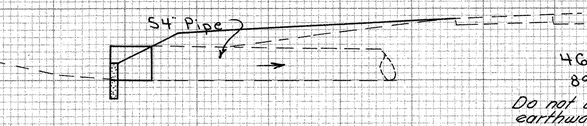
460+00
897.54



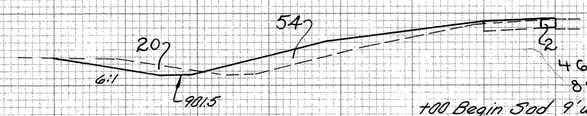
465+00
899.53



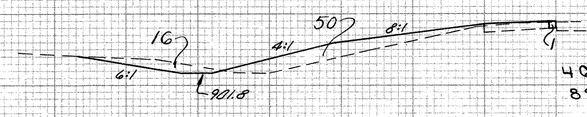
464+43
899.33



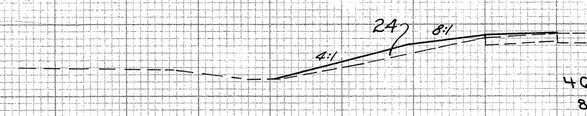
464+01 Skewed
899.14
Do not use for earthwork



464+00
899.13
+00 Begin Sod 9' wide



463+50
898.93



463+00 Begin Ramp Taper
898.73

462+50

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
33	88		
			89 146
51	50		
58	83		
22	54		
			36 97
17	50		
			16 69
0	24	0	36
0	15		

X-SECTIONS STA. 460+00 TO 465+00 LEFT I.R. 75

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WJW	2-73	JAW	2-73				
TEMPLATE	CEK	2-73	RR	3-73				
DITCHES	CEK	2-73	RR	3-73				
AREAS	WJW	2-73	CFT	4-73				
VOLUMES	WJW	2-73	CFT	4-73				
SEEDING	WJW	2-73	CFT	4-73				

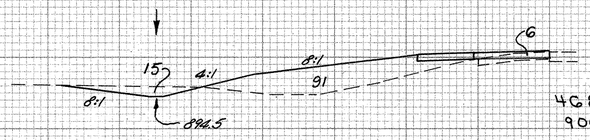
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

68
191

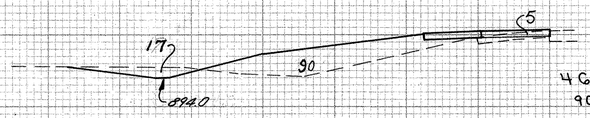
AUGLAIZE COUNTY

AUG.-75-4.97

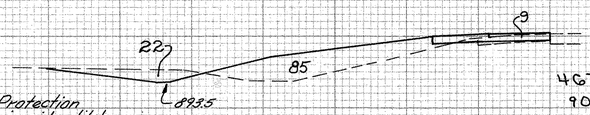
SEEDING END WIDTH	SEEDING SQ. YDS.	End Area CUT	End Area FILL	Volume CUT	Volume FILL	Seeding CUT	Seeding FILL
55	306	21	91	40	168		
55	317	22	90	46	162		
59	331	31	85	58	163		
60	339	26	91	47	160	47	281
62	350	24	82	54	155	54	297
64	356	29	85	58	160	53	300
64		33	88	Total	492	282	55 287



468+00
900.73



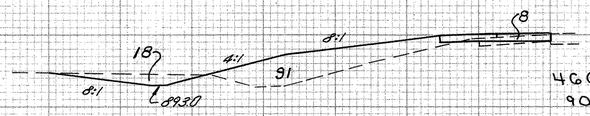
467+50
900.53



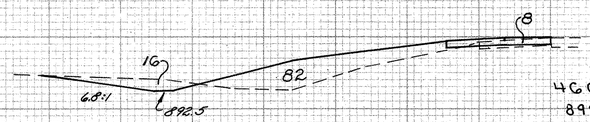
467+00
900.33

466+60± Place Rock Channel Protection on backslope to outlet draw in side ditch.
Item 601-27'x6'x18"=12 Cu. Yd.
469+00 to 469+50 place sod 9' wide in ditches.
Item 660-550 Sq. Yd.

Quantities to Sheet 55

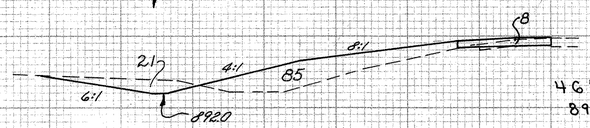


466+50
900.13



466+00
899.93

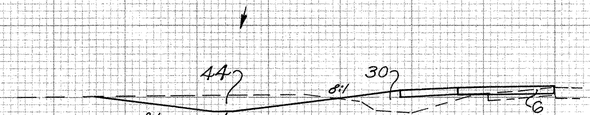
Earthwork & Seeding totals carried to Sht. 55



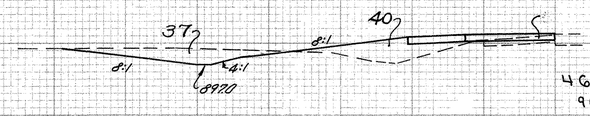
465+50
899.73

465+00

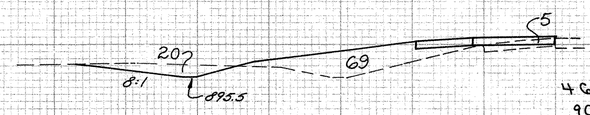
Continued



469+50
901.33



469+00
901.13



468+50
900.93

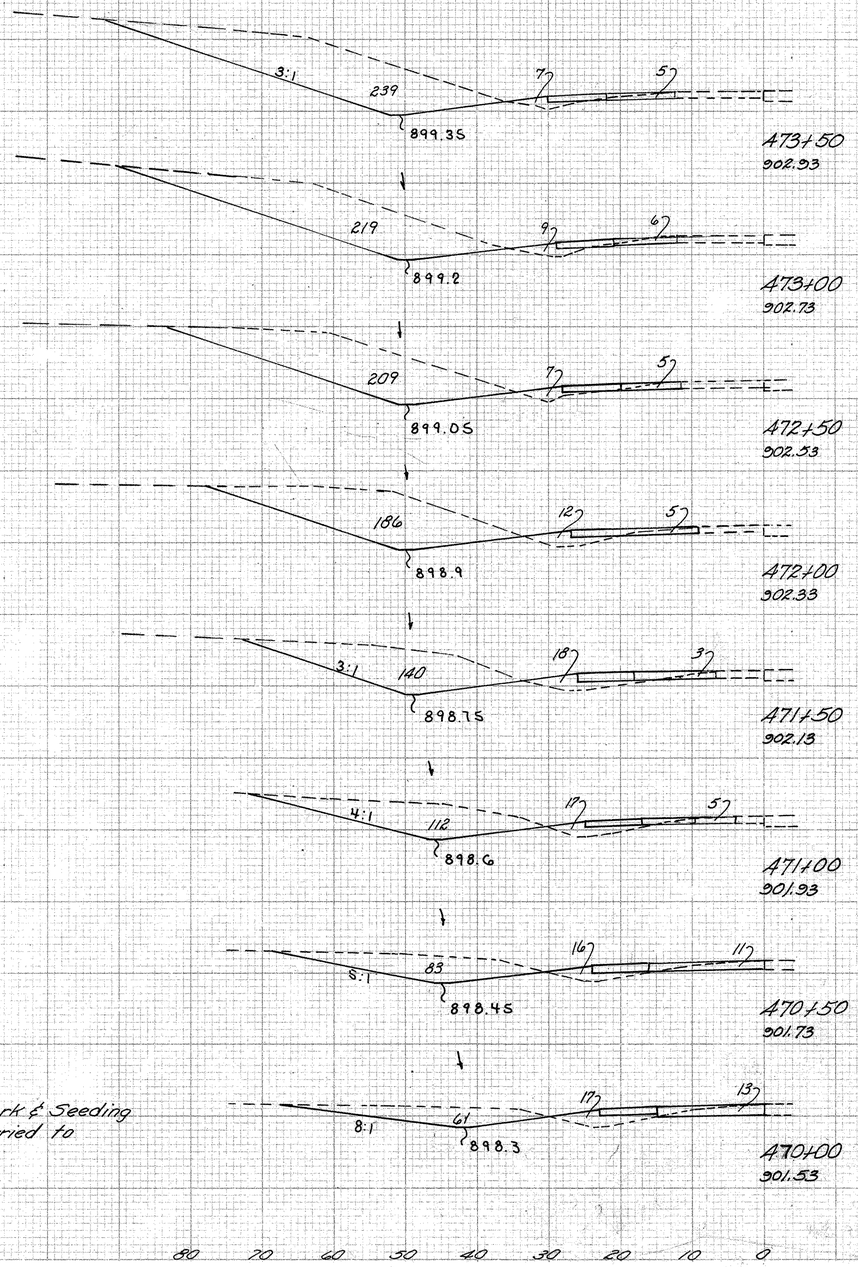
468+00

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
50	30		
		85	65
41	40		
		61	101
25	69		
		43	148
21	91		

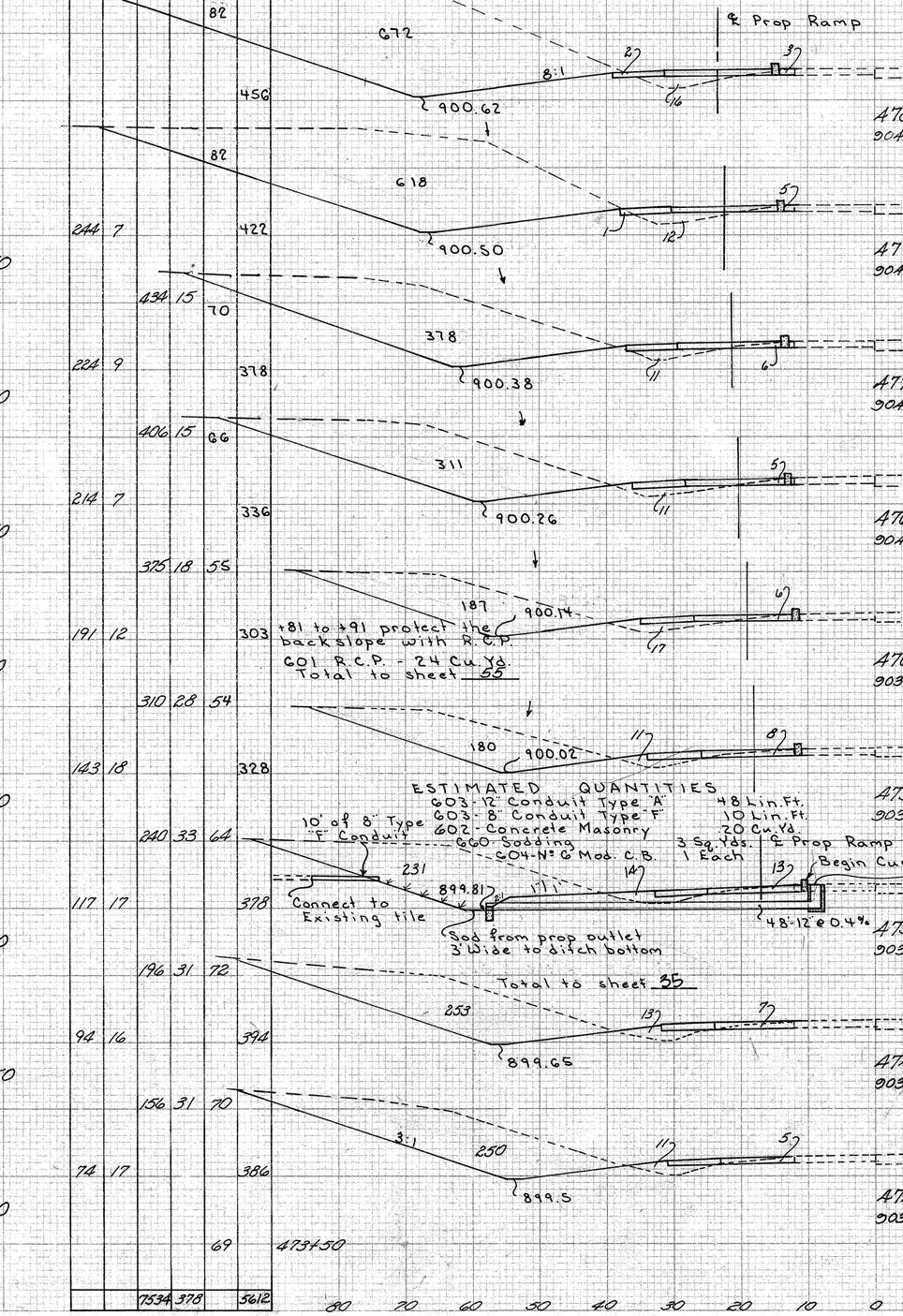
X-SECTIONS STA 465+50 TO 470+00 I.R. 75 LEFT

SEEDING	
END WIDTH	SQ. YDS.
69	
380	
68	
361	
62	
331	
57	
306	
53	
292	
52	
283	
50	
278	
50	

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WJM	8-72	JF	8-72				
TEMPLATE	RR	11-72	CEK	1-73				
DITCHES	RR	11-72	CEK	1-73				
AREAS	JAW	1-73	WJM	1-73				
VOLUMES	JAW	1-73	WJM	1-73				
SEEDING	JAW	1-73	WJM	1-73				



END AREA		VOLUME		SEEDING	
CUT	FILL	CUT	FILL	END WIDTH	SQ. YDS.
				82	
				456	
				82	
244	7			422	
		434	15	70	
224	9			378	
		406	15	66	
214	7			336	
		325	18	55	
191	12			303	
		310	28	54	
143	18			328	
		240	33	64	
117	17			378	
		196	31	72	
94	16			394	
		156	31	70	
74	17			386	
				69	473+50
		7534	378		5612



END AREA		VOLUME	
CUT	FILL	CUT	FILL
672	16		
		1204	26
624	12		
		934	22
384	11		
		648	20
316	11		
		472	26
193	17		
		353	26
188	11		
		400	23
244	14		
		467	25
260	13		
		477	22
255	11		
		462	17
244	7		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG-75-4.97

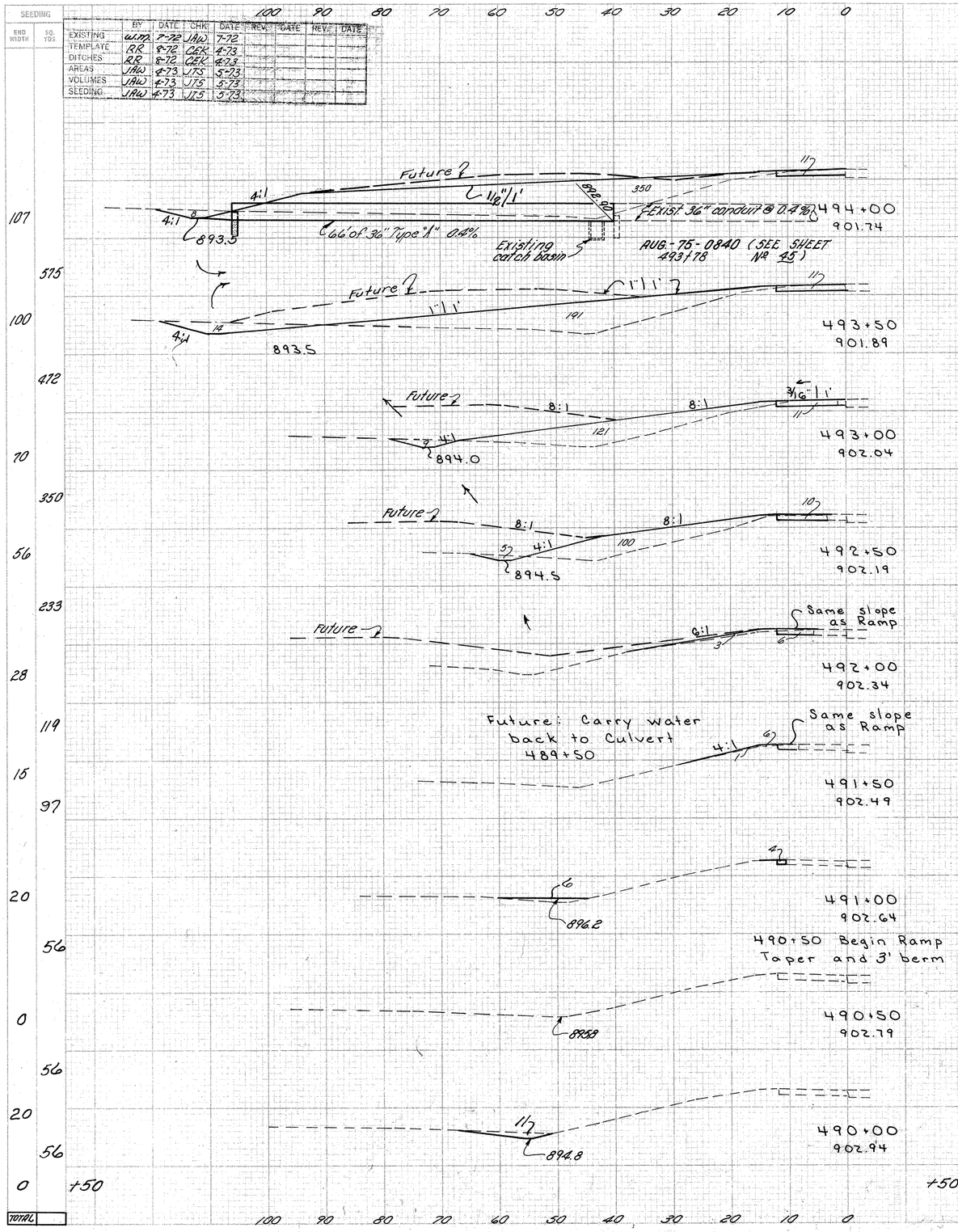
X-SECTIONS STA. 470+00 to 478+00 (LEFT) I.R.-75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

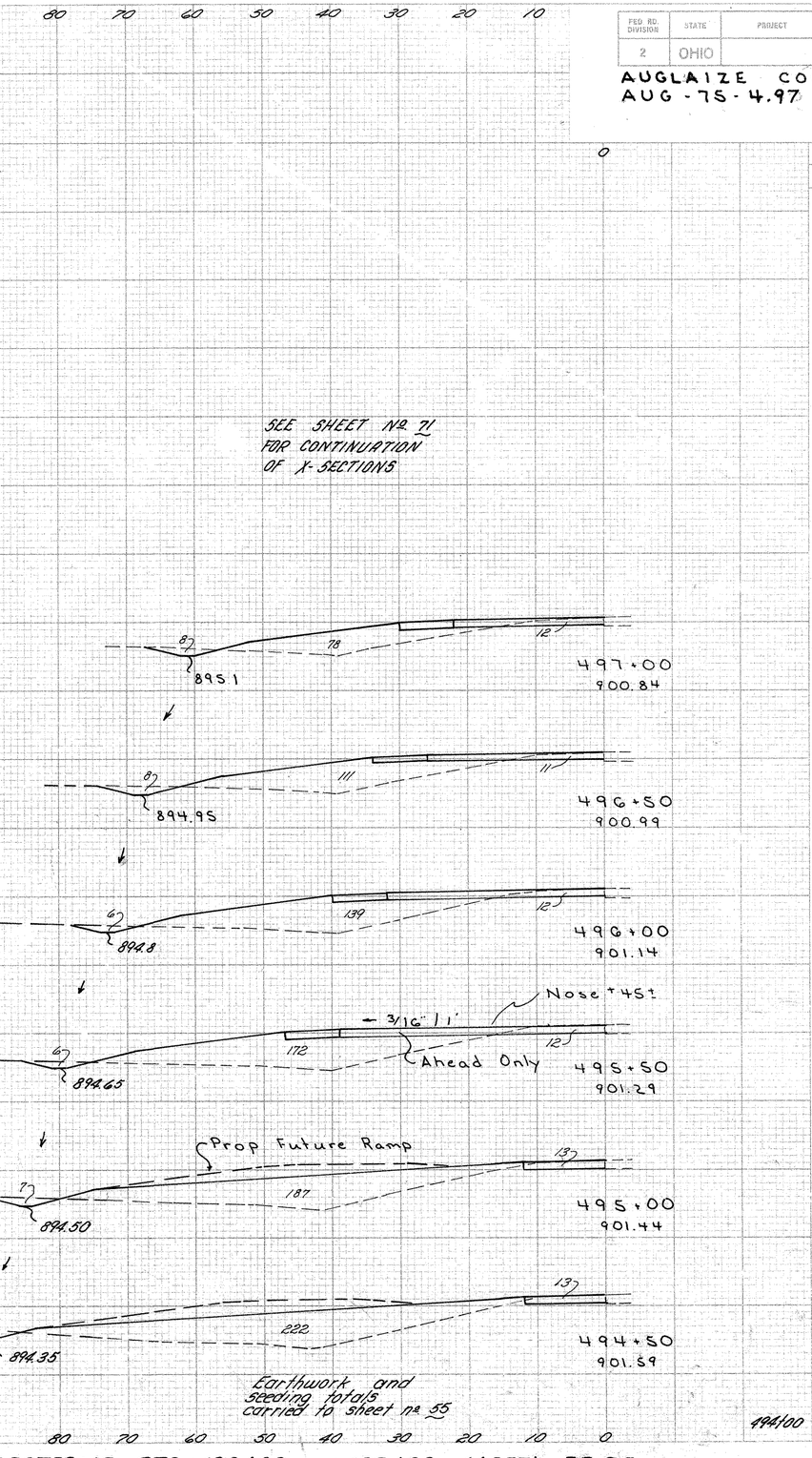
70/191

AUGLAIZE COUNTY
AUG-75-4.97

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	7-72	JAW	7-72				
TEMPLATE	RR	8-72	CEK	4-73				
DITCHES	RR	8-72	CEK	4-73				
AREAS	JAW	4-73	JTS	5-73				
VOLUMES	JAW	4-73	JTS	5-73				
SEEDING	JAW	4-73	JTS	5-73				



End Area Cut	End Area Fill	Volume Cut	Volume Fill	Seeding End Width	Seeding Sq. Yds.
19	350				
		41	501		
25	191				
		42	289		
				0	
20	121				
					117
		33	205		
				42	
15	100				
		20	96		242
6	3			45	
		11	4		244
6	1			43	
		10	1		244
4	6			45	
		4	6		353
0	0			82	
		10	0		494
11	0			96	
		10	0		564
0	0			107	
TOTAL		424	3039		4272



End Area Cut	End Area Fill	Volume Cut	Volume Fill
20	78		
		36	175
19	111		
		35	232
18	139		
		35	288
19	172		
		36	333
20	187		
		51	379
35	222		
		50	530
494+00 19	350		

X-SECTIONS STA. 490+00 TO 497+00 (LEFT) I.R.-75

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WM.	2-73	JAW	3-73				
TEMPLATE	RR	4-73	CEK	5-73				
DITCHES	RR	4-73	CEK	6-73				
AREAS	RR	4-73	JAW	5-73				
VOLUMES	RR	4-73	JAW	5-73				
SEEDING	RR	4-73	JAW	5-73				

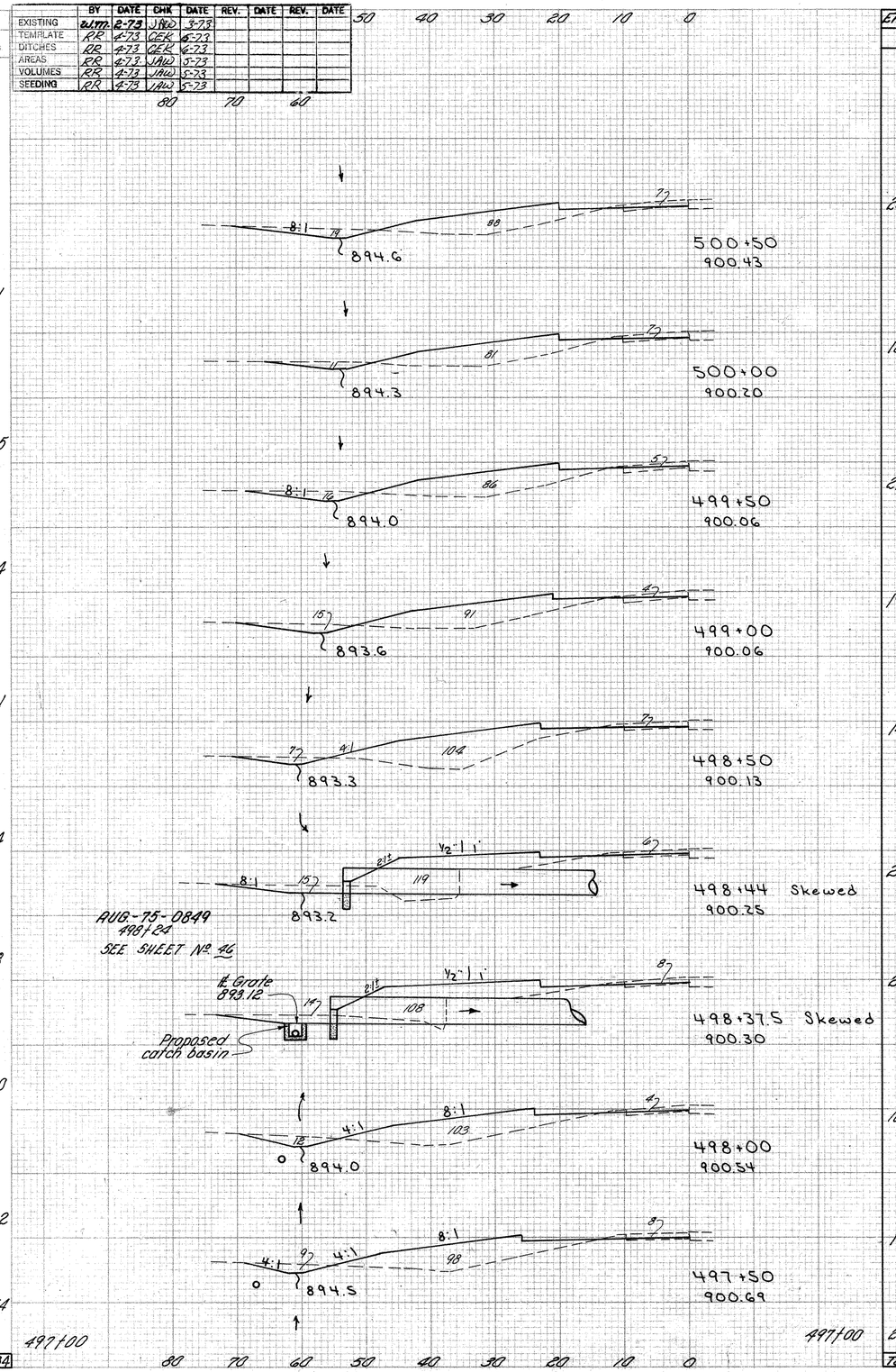
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

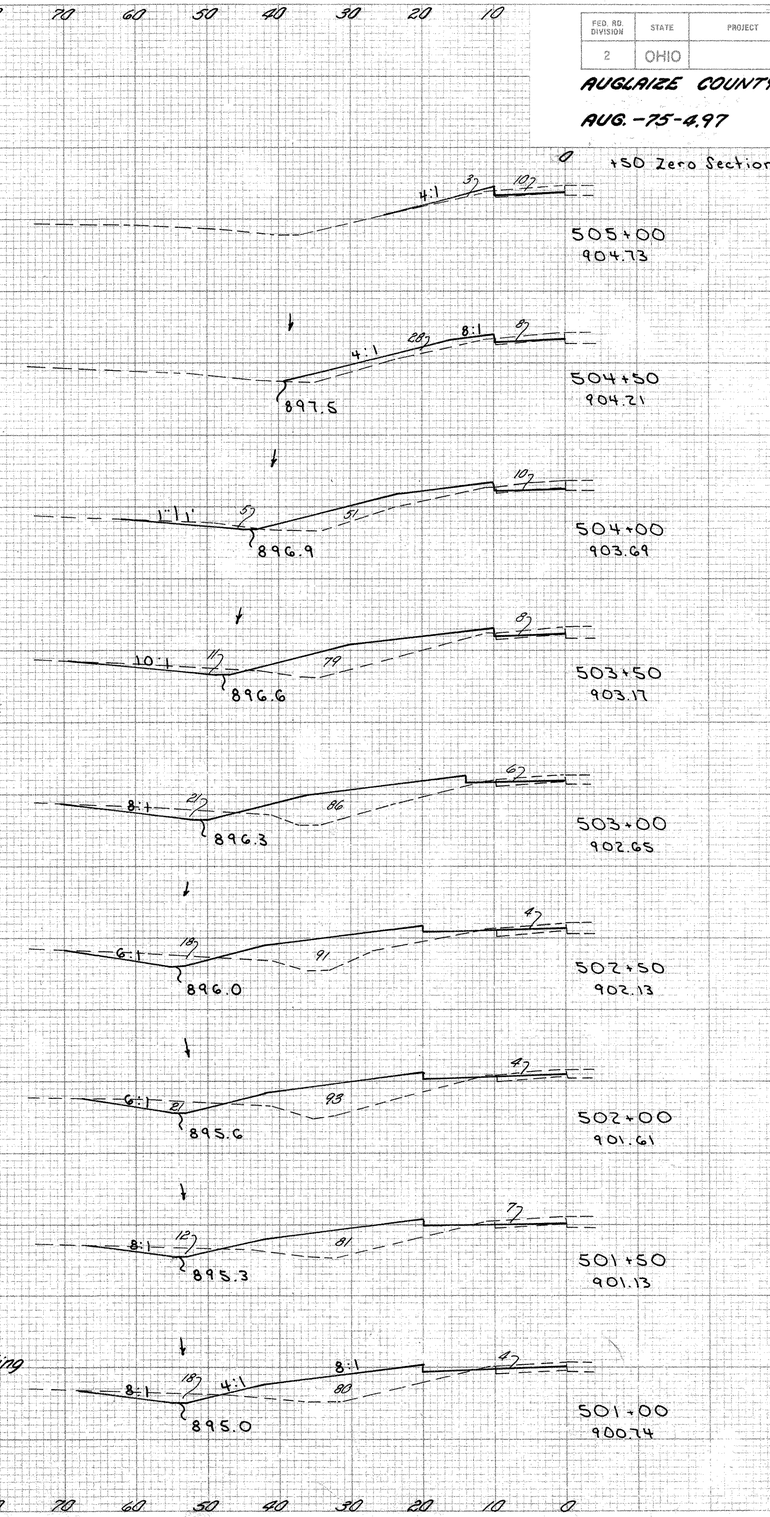
71
191

AUGLAIZE COUNTY

AUG.-75-4.97

SEEDING END WIDTH	SEEDING SQ. YDS	End Area CUT	End Area FILL	Volume CUT	Volume FILL	Seeding
						0
53	281	26	88			18
				40	157	139
48	275	18	81			32
				36	154	239
51	284	21	86			54
				37	164	322
51	281	19	91			62
				31	180	336
50	244	14	104			59
				4	25	308
53	262	21	119			52
				6	29	283
53	210	22	108			50
				27	149	278
48	262	16	103			50
				31	186	281
46	244	17	98			51
				35	163	289
42	497+00	20	78			53
Total	4434	Total		584	2386	





END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	0		
		10	3
10	3		
		17	28
8	28		
		22	73
15	51		
		32	121
19	79		
		43	153
27	86		
		46	164
22	91		
		44	171
25	93		
		40	161
19	81		
		38	149
22	80		
		45	156
26	88		

X-SECTIONS STA. 497+50 TO 505+00 LEFT

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

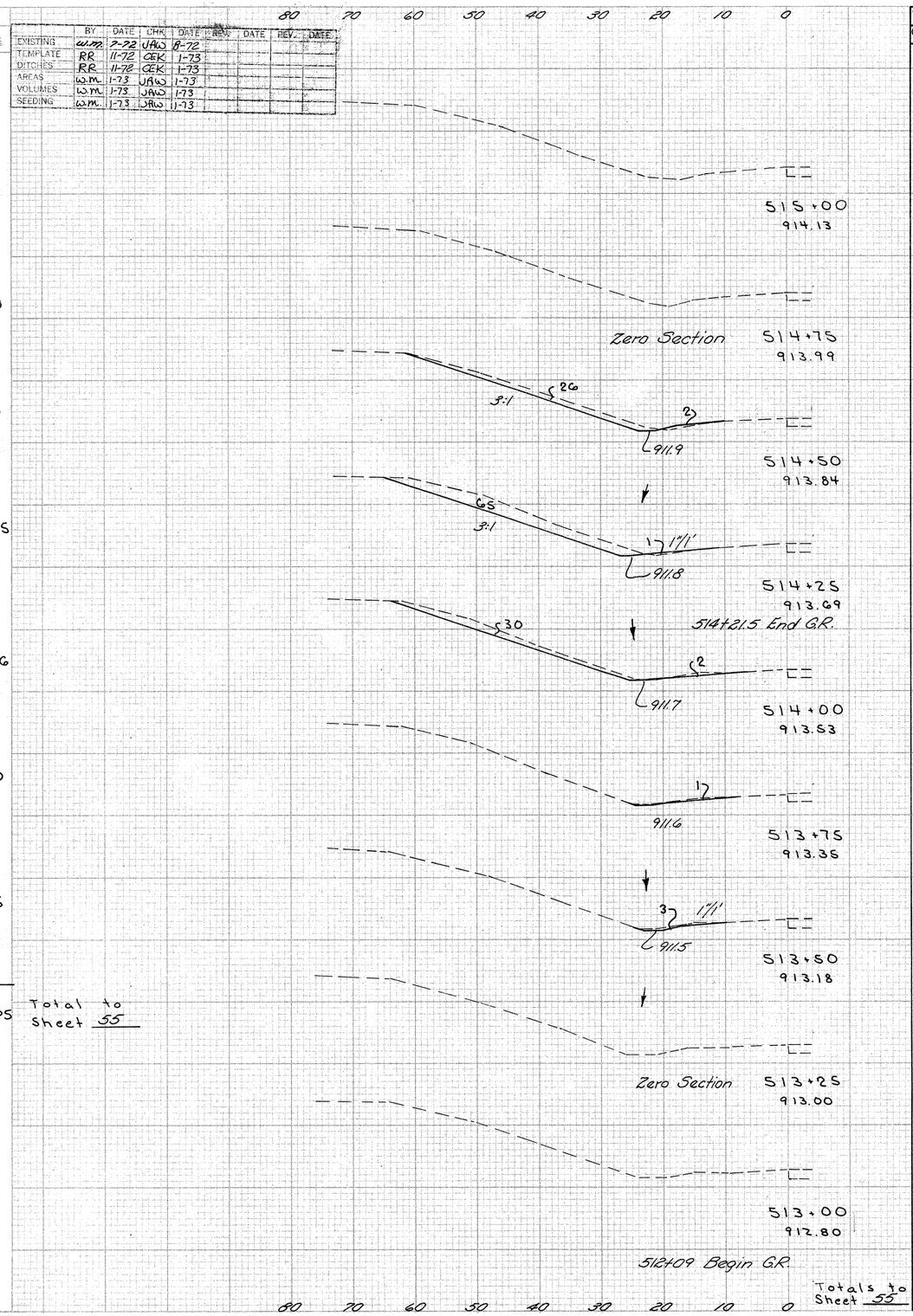
72/191

AUGLAIZE COUNTY

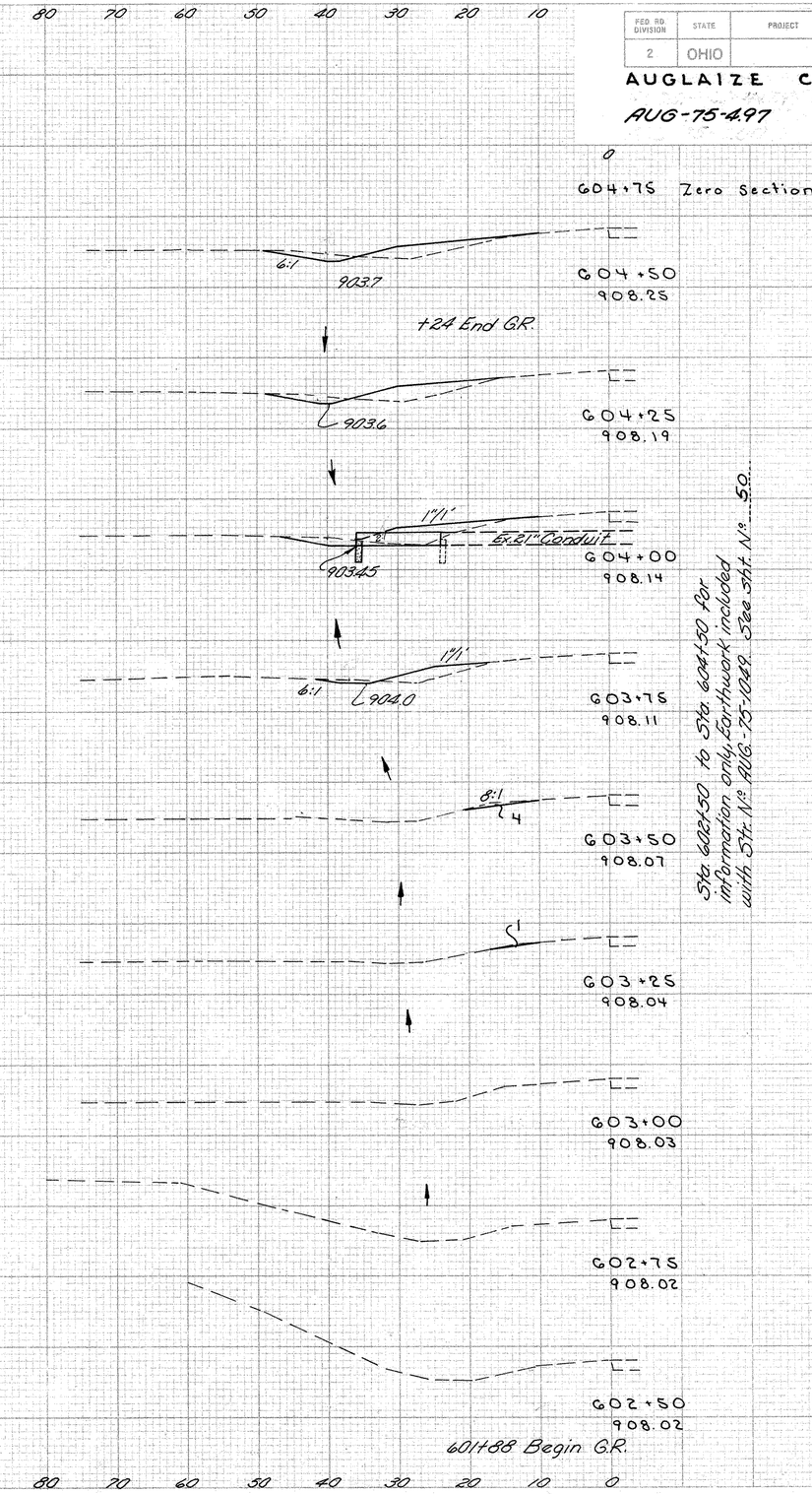
AUG-75-4.97

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	7-72	JAW	8-72				
TEMPLATE	RR	11-72	CEK	1-73				
DITCHES	RR	11-72	CEK	1-73				
AREAS	W.M.	1-73	JAW	1-73				
VOLUMES	W.M.	1-73	JAW	1-73				
SEEDING	W.M.	1-73	JAW	1-73				

SEEDING END WIDTH	SEEDING SQ. YDS.	End Area Cut	End Area Fill	Volume Cut	Volume Fill	Seeding End Width	Seeding Sq. Yds.
0							
	88	0	0				
63				12	1		
	181	26	2				
67				42	2		
	185	65	1				
66				45	1		
	126	32	0				
25				15	0		
	70	1	0				
25				2	0		
	35	3	0				
0				2	0		
	685	0	0				
	Totals to Sheet 55			118	4		



X-SECTIONS STA. 513+00 TO 515+00 (LEFT) IR-75



Sta. 602+50 to Sta. 604+50 for information only, Earthwork included with Str. No. AUG-75-1049. See sht. No. 50.

X-SECTIONS STA. 602+50 TO 604+50 (LEFT) IR-75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

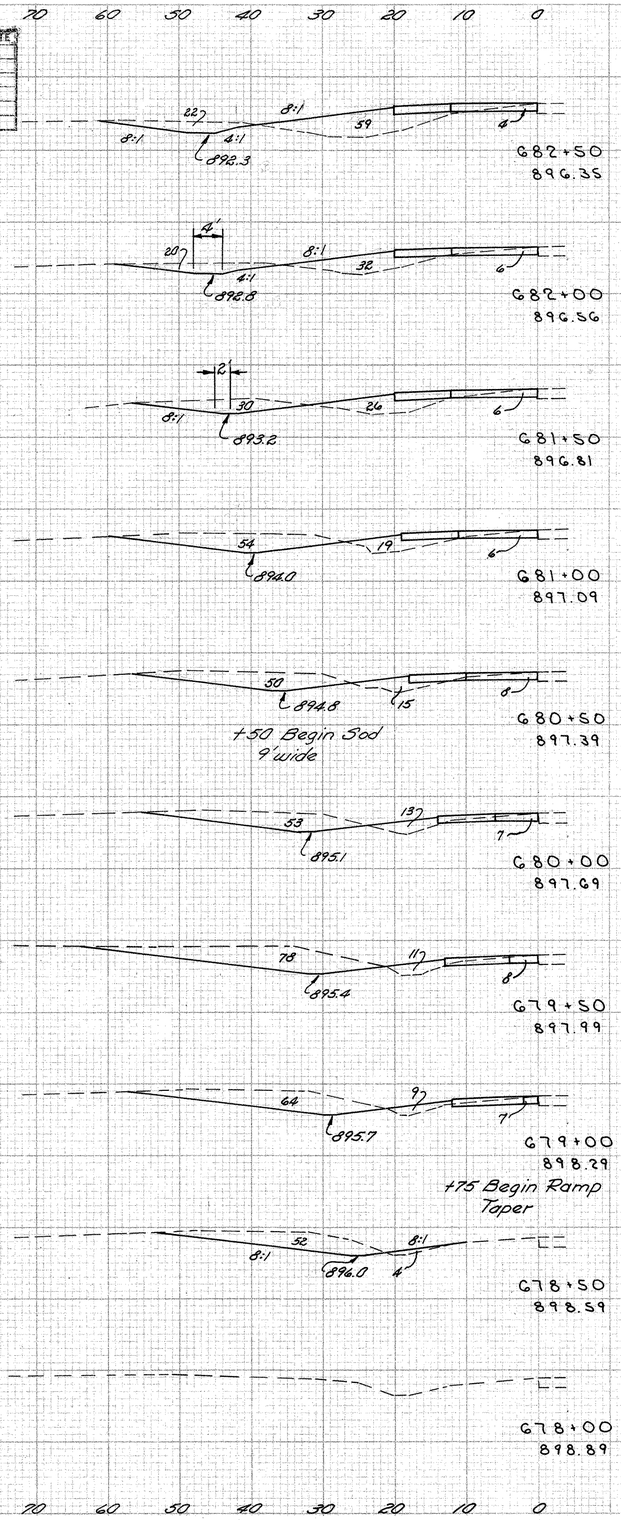
AUGLAIZE COUNTY

AUG-75-4.97

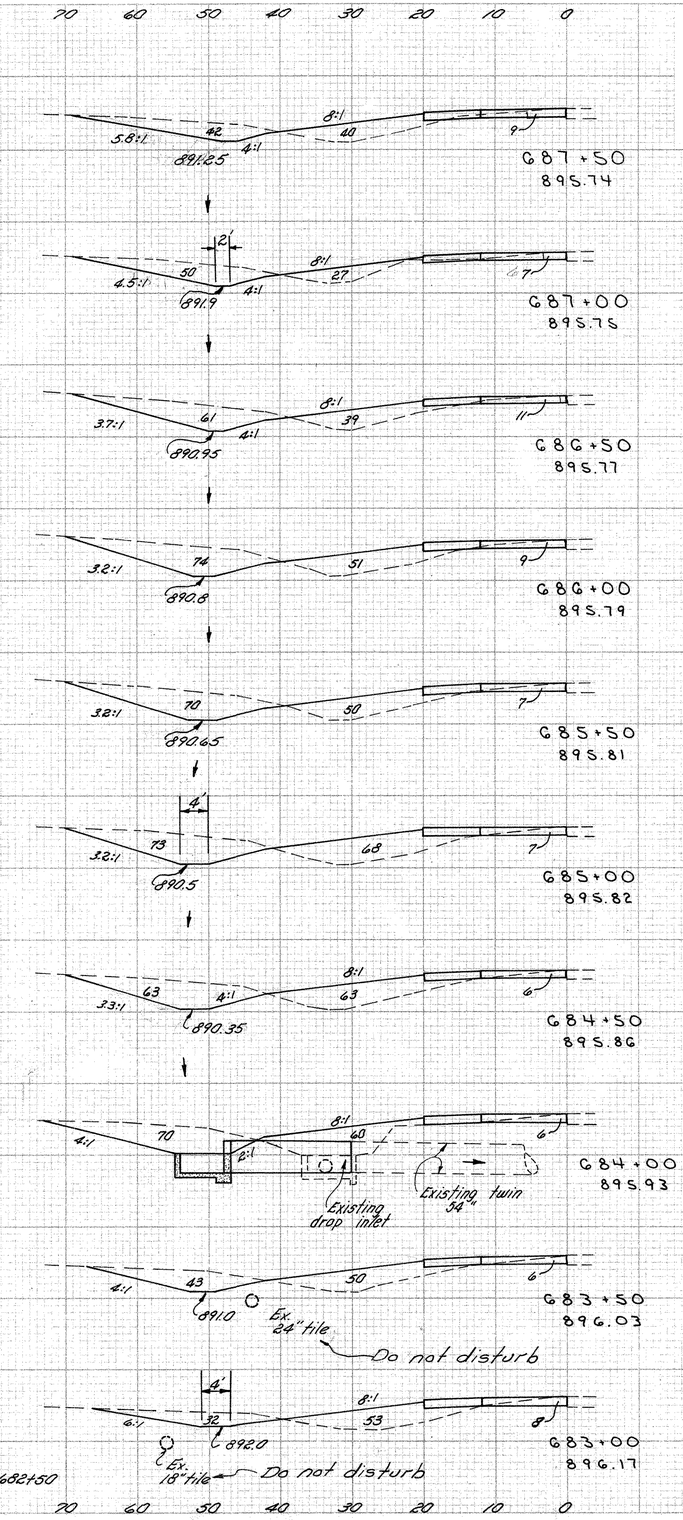
73
191

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WJM	7-72	JAW	8-72				
TEMPLATE	TS	10-72	RR	11-72	CRK.	1-73		
DITCHES	TS	10-72	RR	11-72	CRK.	1-73		
AREAS	RR	11-72	WJM	1-73				
VOLUMES	RR	11-72	WJM	1-73				
SEEDING	RR	11-72	WJM	1-73				

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
46	250	51	40	100	62
44	236	57	27	120	61
41	242	72	39	144	84
46	250	83	51	148	94
44	250	77	50	146	110
46	283	80	68	138	122
56	297	69	63	135	114
51	278	76	60	116	102
49	136	49	50	83	96
0	0	40	53	61	104
		682+50	26	59	



End Area		Volume		Seeding	
Cut	Fill	Cut	Fill	End Width	Sq. Yds.
26	59			55	
		48	85		306
26	32			55	
		58	54		306
36	26			55	
		89	42		308
60	19			56	
		110	32		311
58	15			56	
		110	26		311
60	13			56	
		135	22		311
86	11			56	
		146	19		297
71	9			51	
		114	12		286
52	4			52	
		48	4		286
0	0			51	
				269	
				46	
Total		2049	1245		5213



AUG.-75-1201
For details see
sheet no. 53

X-SECTIONS STA 678+00 TO 687+50 (LEFT) IR-75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG.-75-4.97

74
191

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WJM	7-72	JAW	7-72				
TEMPLATE	JTS	10-72	CEK	1-73				
DITCHES	JTS	10-72	CEK	1-73				
AREAS	RR	1-73	WJM	2-73				
VOLUMES	RR	1-73	WJM	2-73				
SEEDING	RR	1-73	WJM	2-73				

SEEDING END WIDTH	SEEDING SQ. YDS.	End Area Cut	End Area Fill	Volume Cut	Volume Fill	Seeding End Width	Seeding Sq. Yds.
0		0	0				
83				19	2		
30		20	2				
181				51	6		
35		35	4				
208				64	9		
40		33	5				
420				105	20		
43		29	7				
267				65	26		
53		41	21				
294				74	37		
53		39	19				
294				71	40		
53		37	24				
294				68	46		
53		36	25	81	60		
300		31	40				
55	687+50	Total		598	246		
2341	Total						

4+00 (A)
896.51

Zero Section 3+50 (A)
895.15

3+00 (A)
894.45

2+50 (A)
894.18

2+00 (A)
894.13

690+00 =
895.65
1+09.15 Ramp (A)

689+50
895.67

689+00
895.69

688+50
895.70

#18 reoutlet existing 8" field tile into back slope

603 8" Conduit, Type F. -10 Lin. Ft.

Quantity to Sheet No. 55

688+00
895.72

687+50

X-SECTIONS STA. 688+00 TO 690+00 (LEFT) I.R.-75

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL

700+00
898.35

699+75
898.25

699+50
898.15

699+47 End Guardrail

699+25
898.05

699+00
897.95

698+75
897.85

698+50
897.75

698+25
897.65

Earthwork & Seeding totals carried to Sht. 55

697+23 Begin Guardrail

698+00
897.55

No earthwork required 699+00 to 700+00 Left

X-SECTIONS STA. 698+00 TO 700+00 (LEFT) I.R.-75

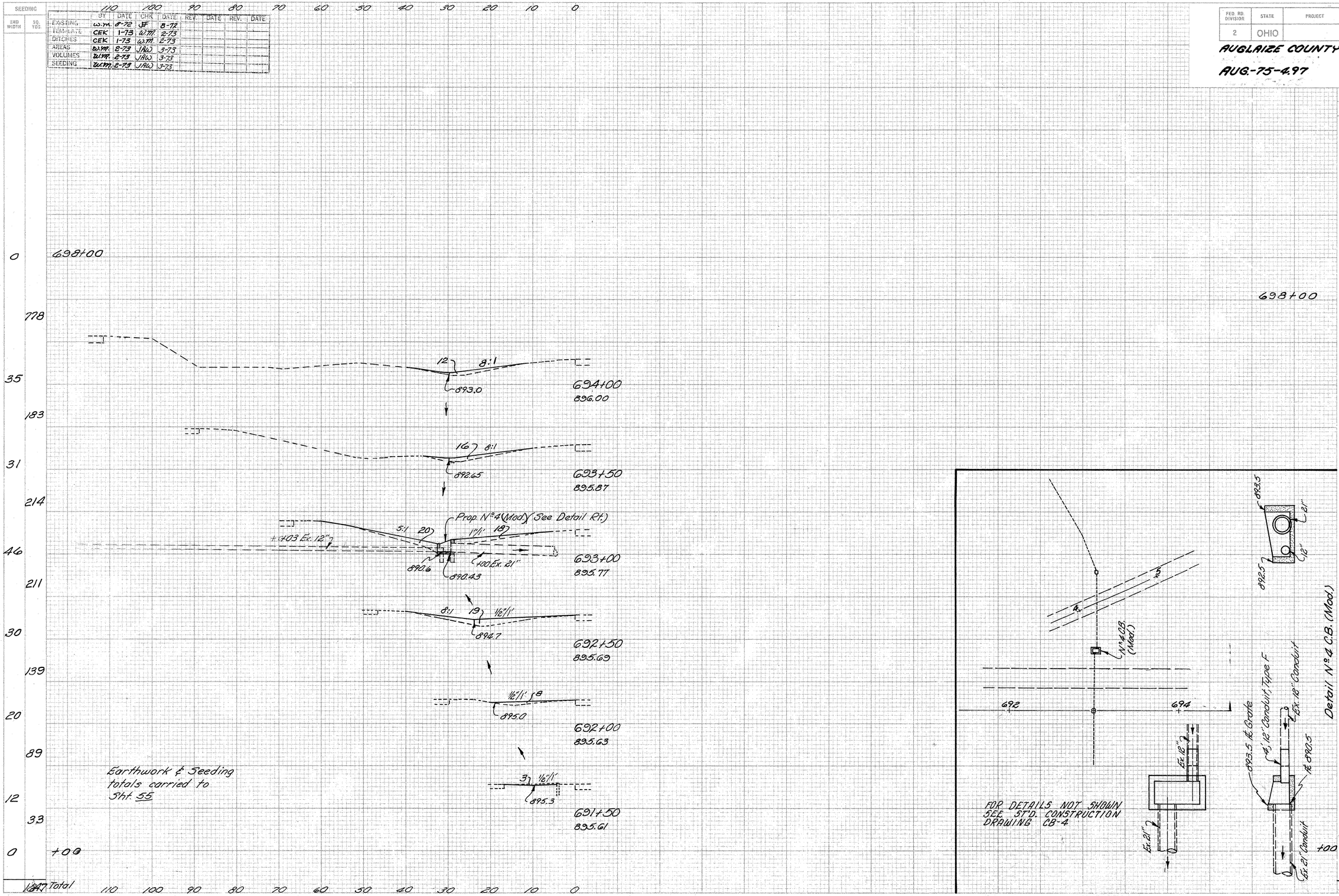
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

75
191

AUGLAIZE COUNTY

AUG.-75-4.97

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	8-72	JF	8-72				
TEMPLATE	CEK	1-73	W.M.	2-73				
DITCHES	CEK	1-73	W.M.	2-73				
AREAS	W.M.	2-73	JAW	3-73				
VOLUMES	W.M.	2-73	JAW	3-73				
SEEDING	W.M.	2-73	JAW	3-73				



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
698+00	0	0		
			0	88
	0	12		
			0	26
	0	16		
			0	50
	0	38		
			0	53
	0	19		
			0	25
	0	8		
			3	8
	3	0		
			3	0
+00	0	0		
Total			6	250

X-SECTIONS STA. 691+50 TO 694+00 (LEFT) TR-75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

76/191

AUGLAIZE COUNTY

AUG.-75-4.97

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	2-73	JAW	2-73				
TEMPLATE	CEK	2-73	W.M.	2-73				
DITCHES	CEK	2-73	W.M.	2-73				
AREAS	W.M.	2-73	RR	3-73				
VOLUMES	W.M.	2-73	RR	3-73				
SEEDING	W.M.	2-73	RR	3-73				

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
		100 90 80 70 60 50 40 30 20 10 0			
		150 140 130 120 110			
		697+00			
		897.15			
0		696+50 Zero Section	0	0	
		896.95			
	58	6:1 3			0 3
21		696+00	0	3	
		896.75			
	133				0 21
		8:1 19			
27		893.9	0	19	
		695+50			
		896.55			
	150				0 37
		21			
27		893.7	0	21	
		695+00			
		896.35			
	169				0 44
		8:1 26 8:1			
34		893.4	0	26	
		694+50			
		896.16			
	192				0 35
35		694+00	0	12	
		150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0			
	702 Total			Total	0 140

Earthwork & Seeding totals carried to Sht. 55

X-SECTIONS STA. 694+50 TO 697+00 (LEFT)

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	ALMA	7-72	JF	7-72				
TEMPLATE	RR	9-72	WM	9-72				
DITCHES	RR	9-72	WM	9-72				
AREAS	ALMA	9-72	TS	9-72				
VOLUMES	ALMA	9-72	TS	9-72				
SEEDING	ALMA	9-72	TS	9-72				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

77
191

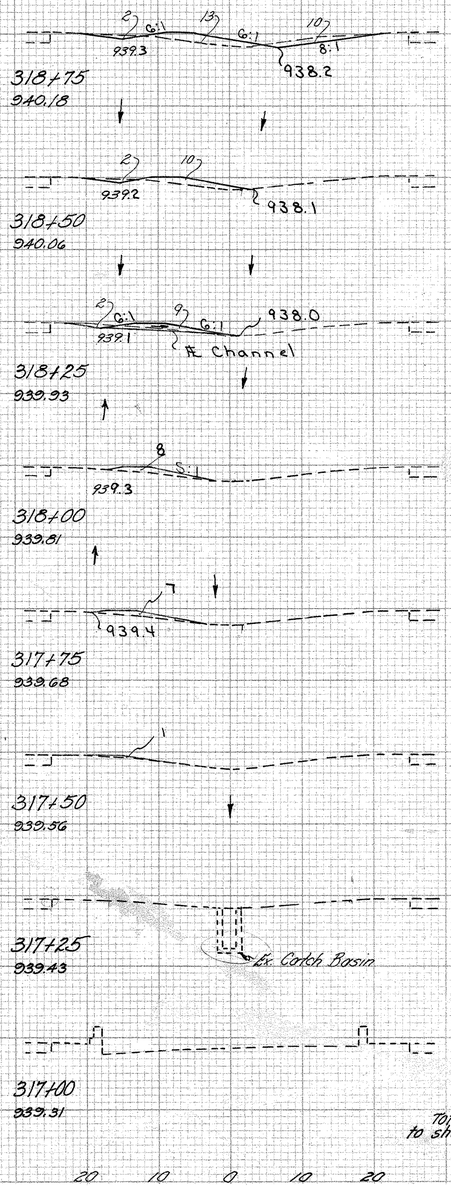
AUGLAIZE COUNTY

AUG.-75-4.97

SEEDING	
END WIDTH	SQ. YDS.
47	104
28	78
28	59
15	44
17	35
10	14
0	
	921

Total carried to sheet no. 55

20 10 0 10 20



Total carried to sheet no. 55

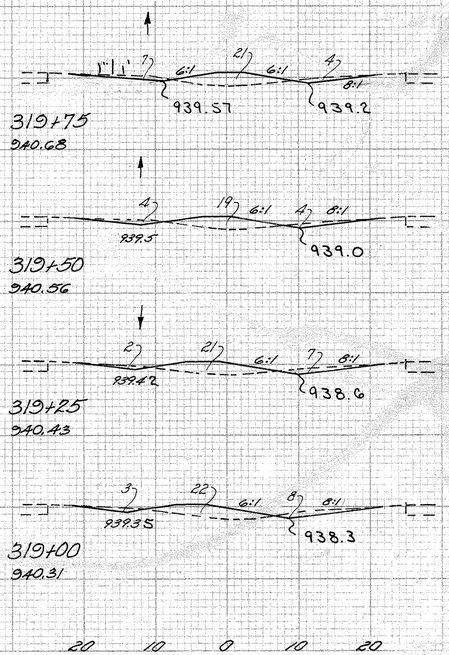
END AREA		VOLUME		SEEDING	
CUT	FILL	CUT	FILL	END WIDTH	SQ. YDS.
12	13				
		7	11		
2	10				
		2	9		
2	9				
		2	8		
0	8			0	
		0	7	65	
0	7			47	
		0	4	129	
0	1			46	
		0	1	129	
0	0			47	
				132	
				48	
				132	
		53	124	47	

Total carried to sheet no. 55

20 10 0 10 20

Work Required: Regrade Median for creation of a Bench for proposed guard rail. Seed and Mulch all graded areas.

Continued on Sheet 78



3/8+75

20 10 0 10 20

END AREA		VOLUME	
CUT	FILL	CUT	FILL
11	21		
		9	19
8	19		
		8	19
9	21		
		9	20
11	22		
		11	16
12	13		

3/8+75

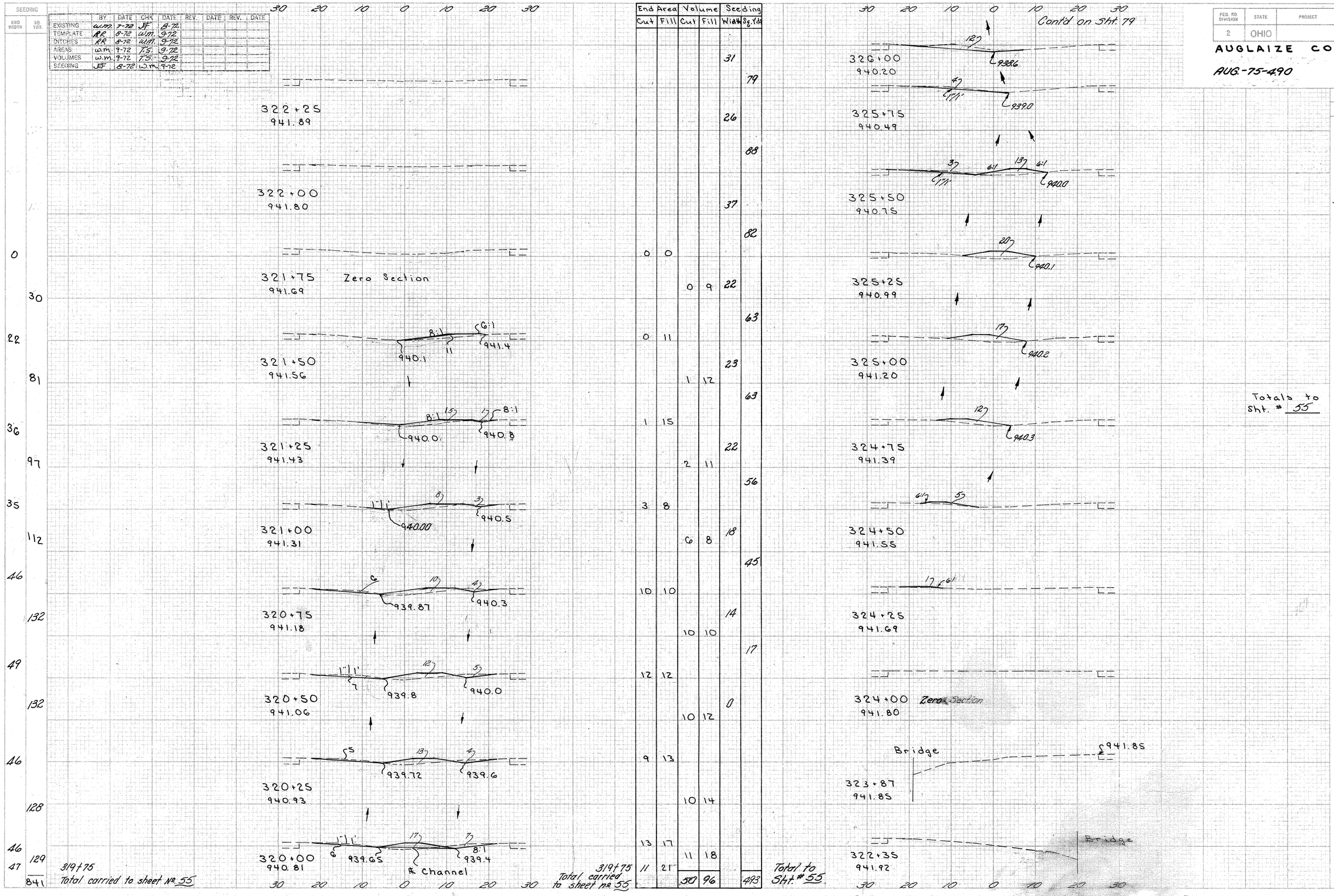
X-SECTIONS STA. 3/7+00 to 3/8+75 (MEDIAN) IR-75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG.-75-490

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	7-72	JF	8-72				
TEMPLATE	RR	8-72	W.M.	9-72				
DITCHES	RR	8-72	W.M.	9-72				
AREAS	W.M.	9-72	T.S.	9-72				
VOLUMES	W.M.	9-72	T.S.	9-72				
SEEDING	JEF	8-72	W.M.	9-72				



End Area Cut	End Area Fill	Volume Cut	Volume Fill	Seeding Width	Seeding Sq. Yds.
				31	79
				26	88
				37	82
0	0				
		0	9	22	63
0	11				
		1	12	23	63
1	15				
		2	11	22	56
3	8				
		6	8	18	45
10	10				
		10	10	14	17
12	12				
		10	12	0	
9	13				
		10	14		
13	17				
		11	18		
11	21				
		50	96		493

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
12	0		
		8	0
4	0		
		4	6
3	13		
		2	16
0	20		
		0	18
0	17		
		0	14
0	12		
		0	8
0	5		
		0	3
0	1		
		0	1
0	0		
		14	68

Totals to Sht. # 55

X-SECTIONS STA. 320+00 TO 326+00 (MEDIAN) IR-75

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	ZOTT	8-73	JAL	2-73				
TEMPLATE	CEK	2-73	RR	3-73				
DITCHES	CEK	2-73	RR	3-73				
AREAS	W.M.	2-73	RR	3-73				
VOLUMES	W.M.	2-73	RR	3-73				
SEEDING	W.M.	2-73	JAL	3-73				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

79/191

AUGLAIZE COUNTY

AUG.-75-4.97

SEEDING END WIDTH	SEEDING SQ. YDS.		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0		Zero Section 327+50 937.95	0	0		
	25				2	0
18		327+25 938.39	3	0		
	64				9	0
28		327+00 938.80	17	0		
	85				17	1
33		326+75 939.19	20	1		
	86				16	1
29		326+50 939.55	15	0		
	83				13	0
31		326+25 939.89	13	0		
	86				12	0
31		326+00	12	0		
429		Total			69	2

Earthwork & Seeding totals carried to Sht. 55

X-SECTIONS STA. 326+25 TO 327+50 (MEDIAN) I.R.-75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG.-75-4.97

80
191

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WM	7-72	AW	7-72				
TEMPLATE	RR	8-72	CEK	1-73				
DITCHES	RR	8-72	"	"				
AREAS	W.M.	9-72	TS	10-72				
VOLUMES	W.M.	9-72	"	"				
SEEDING	JF	8-72	W.M.	9-72				

SEEDING		End Area		Volume		Seeding	
END WIDTH	SQ. YDS	Cut	Fill	Cut	Fill	End Width	Sq. Yd.
26	72	0	34				
				0	29		
26		0	28				
	70			0	25		
24		0	26				
	75			0	23		
30		0	24				
	83			0	23		
30		0	26				0
	83			0	29		
30		0	37				
	81			0	31		
28		0	30				
	58			0	15		
14		0	2				
	20			0	1		
0		0	0				
	100	Total carried to Sheet No. 55					

Totals carried to Sheet No. 55

								0	0

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

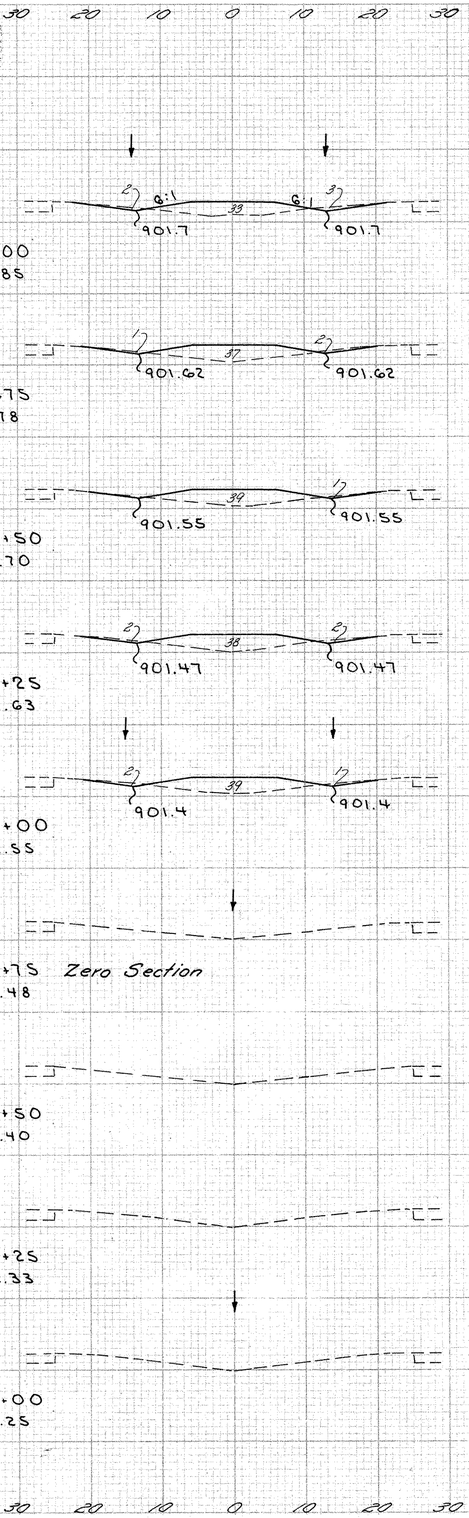
AUGLAIZE COUNTY

AUG.-75-4.97

81 / 191

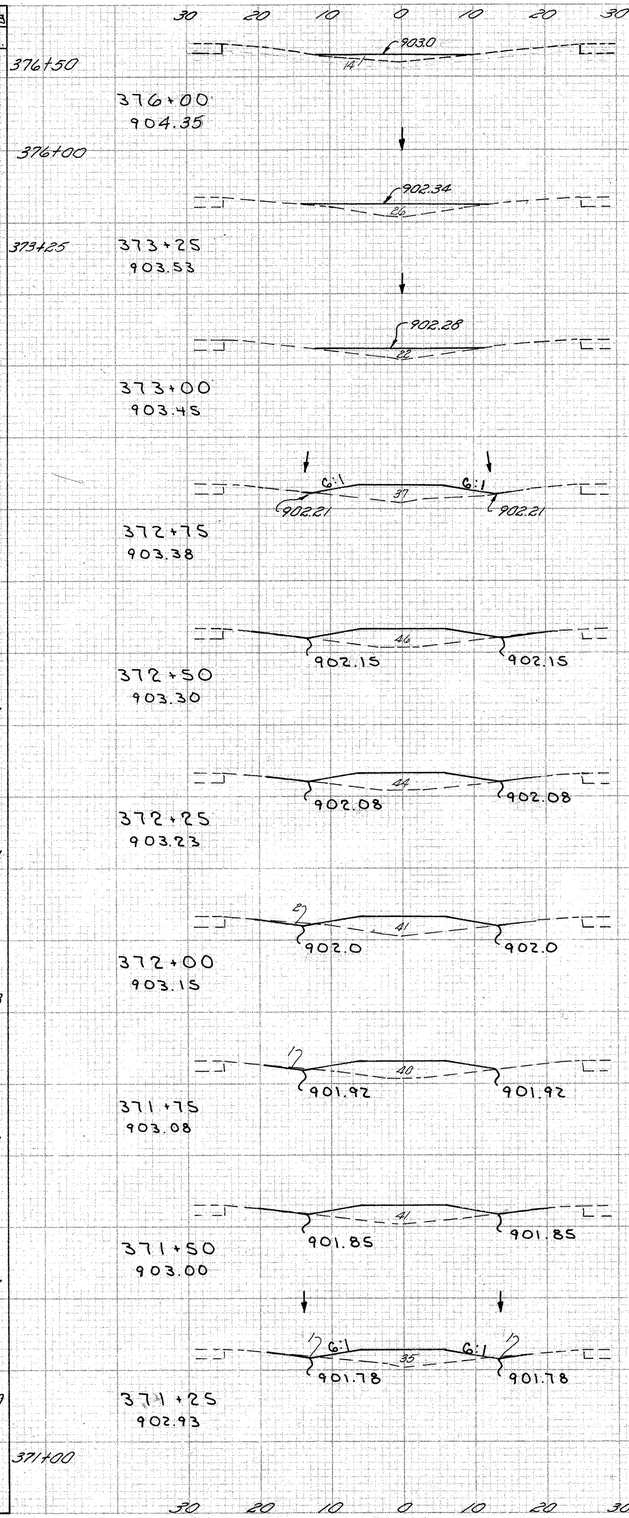
	BY	DATE	CHK.	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	7-72	TS	10-72				
TEMPLATE	RR	9-72	CEK	1-73				
DITCHES	RR	9-72	CEK	"				
AREAS	W.M.	9-72	TS	10-72				
VOLUMES	W.M.	9-72	"	"				
SEEDING	W.M.	9-72	"	"				

SEEDING END WIDTH	SEEDING SQ. YDS.
46	127
45	124
44	122
44	122
44	61
0	
TOTAL	1581



Earthwork & Seeding totals carried to Sht. 55

End Area Cut	End Area Fill	Volume Cut	Volume Fill	Seeding End Width	Seeding Sq. Yd.
				0	
					72
				26	
5	33				
				29	
		4	33		
					78
3	37			27	
		2	35		82
1	39			32	
					106
		2	36		
4	38			44	
					117
		3	36		
3	39			40	
					114
		2	18		
0	0			42	
					108
				36	
					111
				44	
					117
				40	
					120
				46	
TOTAL		21	687		



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
376+50 Zero Section	0	0		
376+00	0	14	0	13
373+25	0	26	0	204
			0	22
	0	22		
			0	27
	0	37		
Work Required: Regrade median as shown to create a bench for the proposed guardrail.			0	39
	0	46		
			0	42
	0	44		
			1	39
	2	41		
			2	38
	1	40		
			1	38
	0	41		
			1	35
	2	35		
			3	32
371+00	5	33		

X-SECTIONS STA. 369+00 to 373+50 (MEDIAN) I.R.-75

SEEDING	
END WIDTH	SQ. YDS.

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WM.	7-72	JAW	8-72				
TEMPLATE	RR	8-72	CEK	1-73				
DITCHES	RR	8-72	CEK	1-73				
AREAS	RR	8-72	TS	10-72				
VOLUMES	RR	8-72	JEF	8-72				
SEEDING	RR	8-72	JEF	8-72				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

82
191

AUGLAIZE COUNTY

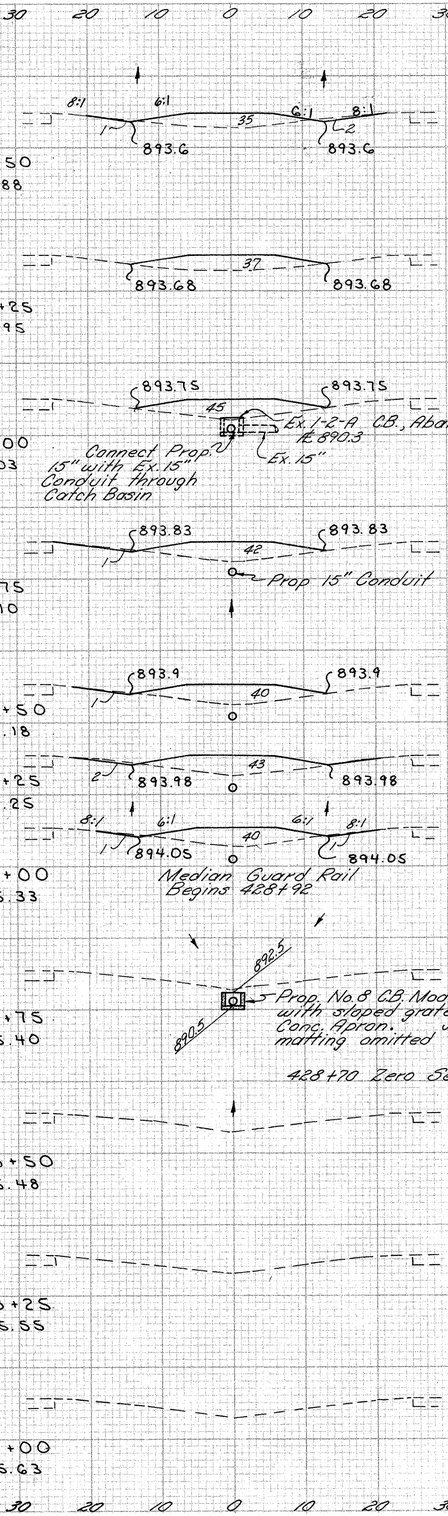
AUG.-75-4.97

Work Required: Construct a Std. No.8 Catch Basin at Sta. 428+75 as shown. Outlet this prop. catch basin with a 15" conduit ahead, to the existing catch basin at Sta. 430+00. Connect through the existing basin the prop. and existing 15" Conduits and abandon the existing catch basin.

Estimated Quantities

202	Catch Basin Abandoned	1 Each
604	Catch Basin, Std. No.8 Mod. per plan	1 Each
603	15" Conduit, Type "C"	125 Lin. Ft.

Quantities carried to Sheet No. 35.



0		432+75
	128	
46		432+25
	1661	
46		429+00
	77	
0		428+70

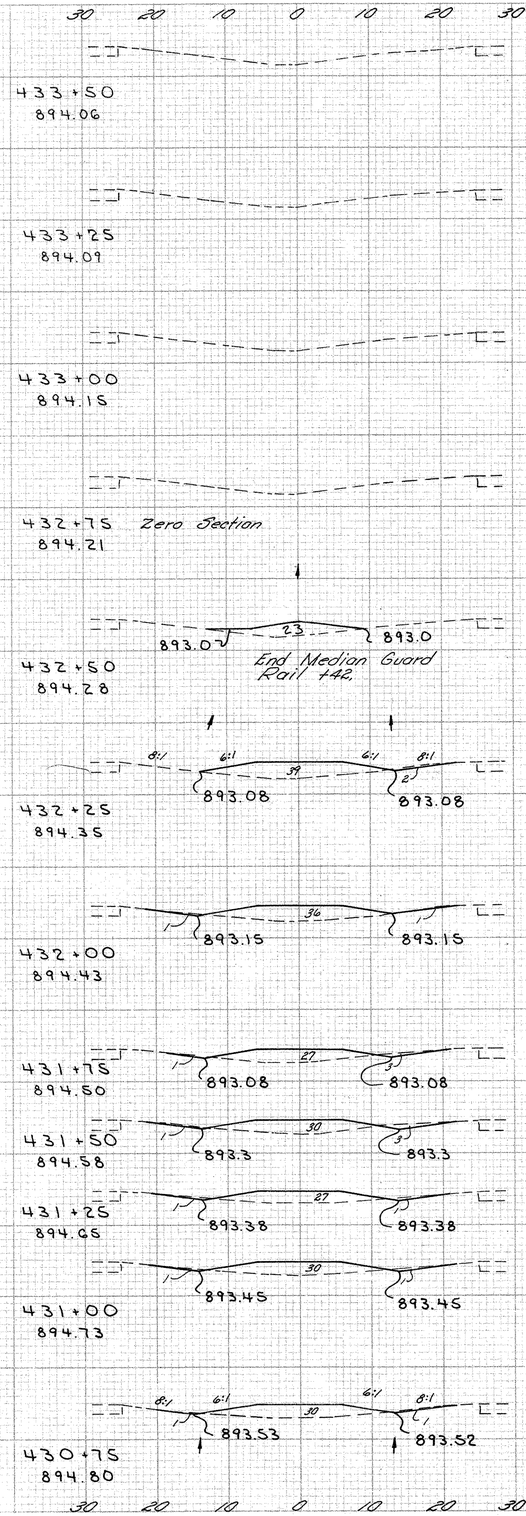
Totals carried to Sht. No. 55.

	TOTAL
1866	

End Area		Volume		Seeding	
Cut	Fill	Cut	Fill	End Width	Sq. Yd.
3	35				
		2	33		
0	37				
		0	38		
0	45				
		1	40		
1	42				
		1	38		
1	40				
		1	38		
2	43				
		2	38		
2	40				
		1	19		
0	0				
			27	484	

Totals carried to Sht. No. 55.

TOTAL



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
		0	11
0	23		
		1	29
2	39		
		2	34
2	36		
		3	29
4	27		
		4	26
4	30		
		3	27
2	27		
		2	26
2	30		
		2	28
2	30		
		2	30
3	35		

X-SECTIONS STA. 428+00 to 433+50 (MEDIAN) IR-75

SEEDING										
END WIDTH	SQ. YDS.		BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
		EXISTING	WM.	8-72	JF	8-72				
		TEMPLATE	RR	9-72	CEK	1-73				
		DITCHES	RR	9-72	"	"				
		AREAS	W.M.	9-72	TS	10-72				
		VOLUMES	W.M.	9-72	"	"				
		SEEDING	W.M.	9-72	"	"				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

83
191

AUGLAIZE COUNTY

AUG.-75-4.97

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL	SEEDING END WIDTH	SEEDING SQ. YDS.
0	0				
		0	2	0	
0	3				33
		0	3		24
0	3				61
		0	8	20	
0	13				55
		2	9	20	
4	7				51
		5	3	17	
8	0				55
		4	0	23	
0	0				55
				17	
					24
				0	
		11	25		334

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	0		
		0	5
0	11		
		0	8
0	6		
1			0 5
0	4		
		0	3
0	3		
		0	4
0	5		
		0	4
0	4		
		0	2
0	0		
		0	31

30 20 10 0 10 20 30

+20 End Guard Rail

A48+00
896.93

Work Required: Regrade median as indicated to allow construction of Standard Guard Rail approach to Bridge.

A47+75 Zero Section
896.93

A47+50
896.93
3
895.9 896.0

A47+25
896.93
13
895.8 895.7

A47+00
896.93
4 7
895.7 895.5

+0.1 Begin Guard Rail

A46+75
896.93
8
895.0

A46+50
896.93

A46+25 Zero Section
896.93

A46+00
896.92

Totals carried to Sht. No. 55.

TOTAL

A51+98
896.93

A51+75 Zero Section
896.95

+60 ± End Guard Rail

A51+50
896.93
11

Work Required: Regrade median as shown to allow construction of Standard Guard Rail approach to bridge.

A51+25
896.93
6

A51+00
896.93
4

A50+75
896.93
3

A50+48
896.93
892.87 Grate & Prop. C.B.
5
Ex. Catch Basin

See sheet 36 for Prop. Catch Basin

A50+25
896.93
4

A50+00
896.93 Zero Section

+99.5 Begin Guard Rail

Totals carried to Sht. No. 55.

TOTAL

X-SECTIONS STA 446+00 to 448+00 (MEDIAN) IR.-75

SECTIONS STA 450+00 to 451+98 (MEDIAN) IR.-75

SEEDING	
END WIDTH	SQ. YDS.
27	105
49	136
49	136
49	136
49	105
27	35
0	
1434 TOTAL	

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WM	7-72	JTS	7-72				
TEMPLATE	RR	9-72	CEK	1-73				
DITCHES	RR	9-72	"	"				
AREAS	W.M.	9-72	SAW	1-73				
VOLUMES	W.M.	9-72	"	"				
SEEDING	W.M.	9-72	"	"				

513+00
912.80
4:1 41 4:1
911.45 911.45

512+75
912.60
3 38 5
911.3

512+50
912.39
4 37 5
911.1

512+25
912.17
6 37 5
911.0

512+00
911.95
5 34 5
910.75

511+75
911.71
4:1 35 4:1
910.5

+66 Begin Guard Rail

511+50 Zero Section
911.47

511+25
911.23

511+00
910.95

Total Carried to sheet 55

End Area		Volume		Seeding	
Cut	Fill	Cut	Fill	End Width	Sq Yd
0	41				
		4	36		
8	38				
		8	35		
9	37			0	
		9	34		49
11	37			35	
		10	33		117
10	34			49	
		5	32		136
0	35			49	
		0	16		136
0	0			49	
					119
				37	
					119
				49	
					105
				27	
85	381				

Total Carried to sheet 55

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

84
191

AUGLAIZE COUNTY

AUG.-75-4.97

515+25
914.26

515+00
914.13

514+75 Zero Section
913.99

+53.5 End Guard Rail

514+50
913.84
6 3:1 31 3:1 6:1
911.9

514+25
913.69
6 28 8
911.82

514+00
913.53
5 28 6
911.75

513+75
913.35
4 30 6
911.67

513+50
913.18
31 6
911.6

513+25
913.00
3:1 40 3:1 6
911.53

513+00

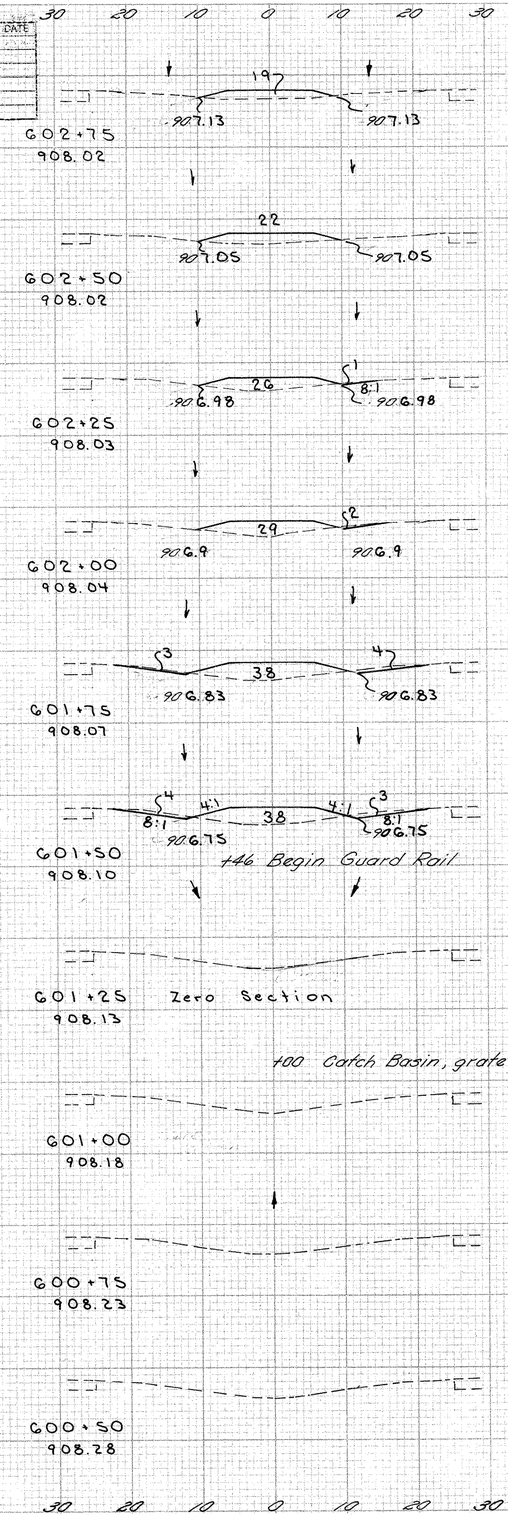
Work Required: Regrade the median as shown to allow construction of Guard Rail for Pier Protection.

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	0	0		
			3	14
	6	31		
			9	27
	14	28		
			11	27
	11	29		
			10	28
	10	30		
			8	28
	6	31		
			5	33
	6	40		
			3	38
513+00	0	41		

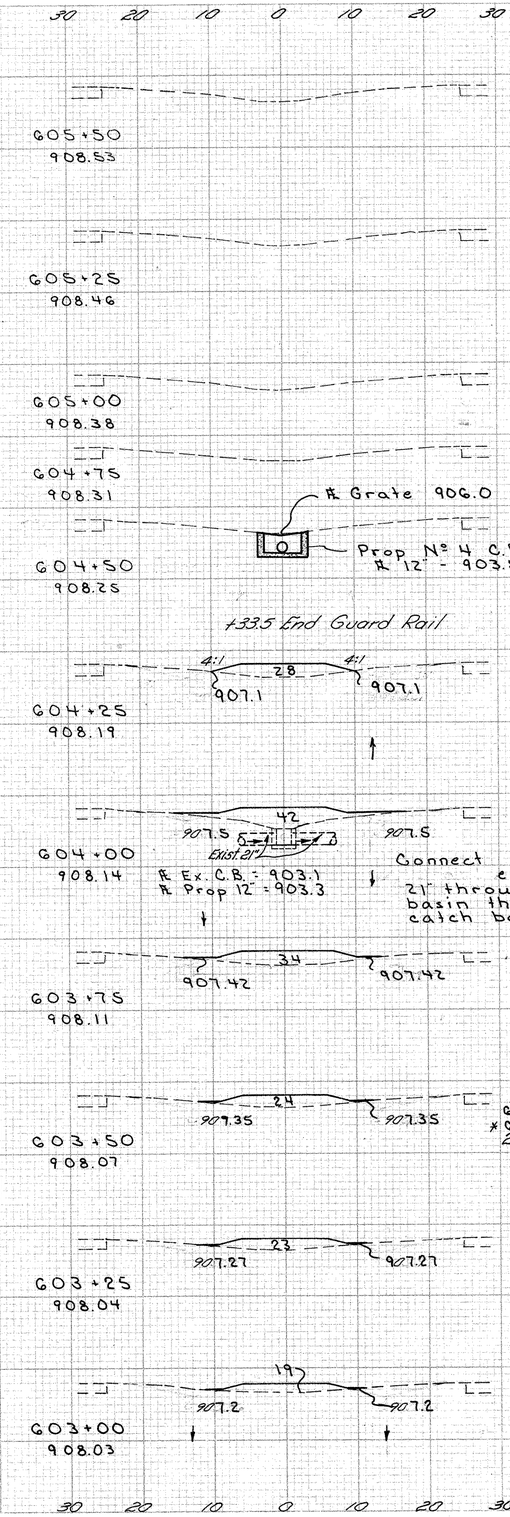
X-SECTIONS STA. 511+00 to 515+25 (MEDIAN) I.R.-75

SEEDING	
END WIDTH	SQ. YDS.
24	67
24	74
29	85
32	112
49	136
49	68
0	
	1053 TOTAL

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	w.m.	7-72	JAW	8-72				
TEMPLATE	RR	8-72	CEK	1-73				
DITCHES	RR	8-72	CEK	1-73				
AREAS	w.m.	9-72	JAW	1-73				
VOLUMES	w.m.	9-72	JAW	1-73				
SEEDING	w.m.	9-72	JAW	1-73				



End Area		Volume		Seeding	
Cut	Fill	Cut	Fill	End Width	Sq. Yds.
0	19				
		0	19		
0	22				
		1	22		
1	26				
		2	26		
2	29			0	
		4	31		35
7	38			25	
		7	35		88
7	38			38	
		3	18		102
0	0			35	
				90	
				30	
				83	
				30	
				81	
				28	
				72	
				24	
TOTAL		17	318		



FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG.-75-4.97

85
191

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
+50	0	0		
			0	13
	0	28		
			0	32
	0	42		
			0	35
	0	34		
			0	27
	0	24		
			0	22
	0	23		
			0	20
	0	19		
			0	18
602+75	0	19		

Work Required: Regrade median as shown to allow construction of Guard Rail for Pier Protection.

Connect Prop. 12" Conduit from Prop. No. 4 C.B. through wall of the existing northerly tube of the 21" pipe structure

Connect existing 21" through catch basin then abandon catch basin.

ESTIMATED QUANTITIES
603 - 12" Conduit, Type "F" - 50 Lin. Ft.
*604 - Std. No. 4 Catch Basins - 1 Each
202 - Catch Basin Abandoned - 1 Each

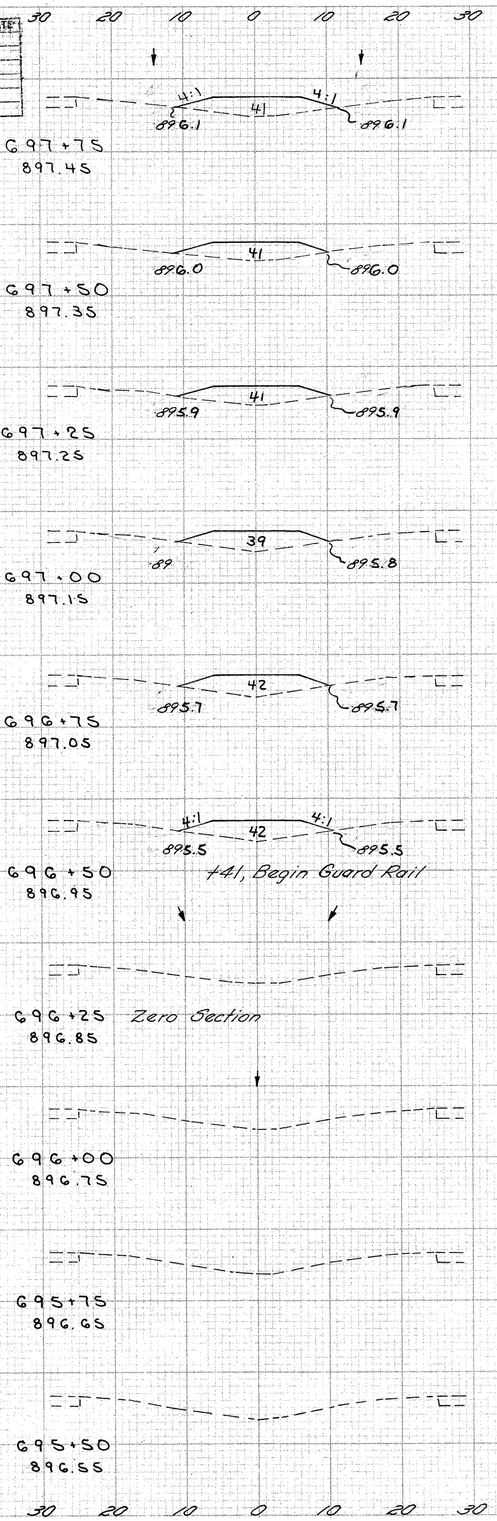
Quantities carried to Sheet 35

* Modify Catch Basin by elimination of Conc. Apron and Jute matting

X-SECTIONS STA. 600+50 to 605+50 (MEDIAN) I.R.-75

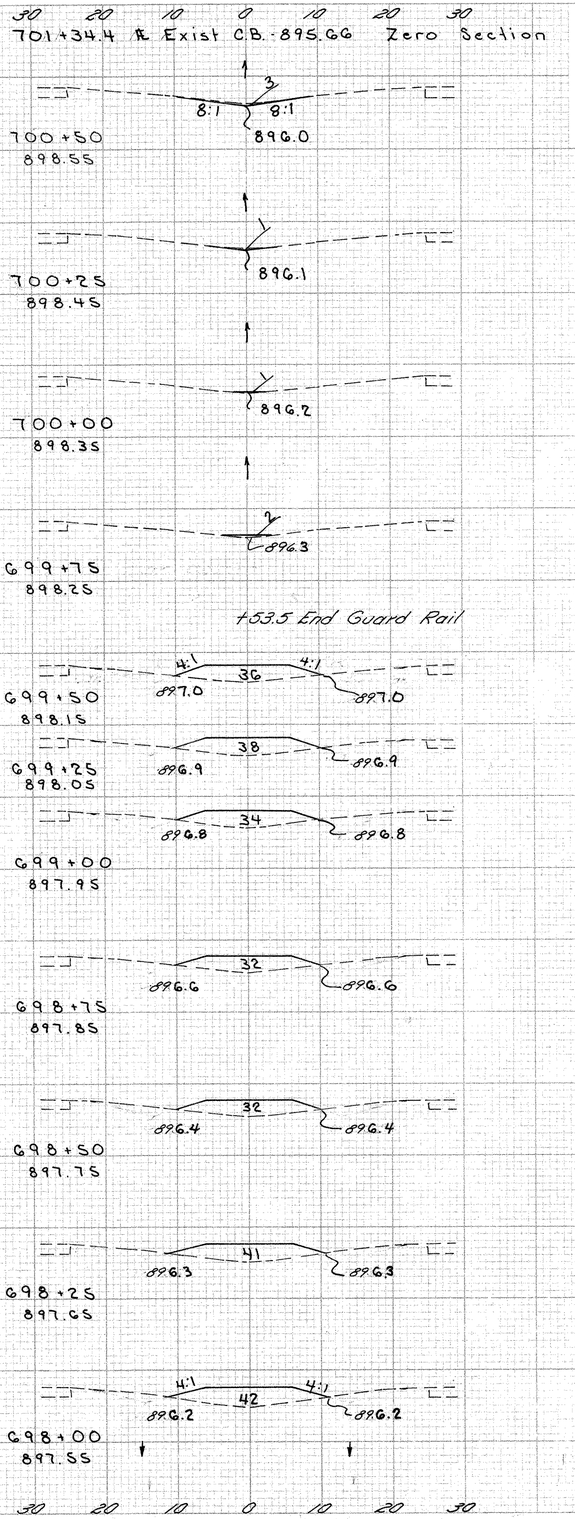
	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	7-72	JAW	8-72				
TEMPLATE	RR	8-72	CEK	1-73				
DITCHES	RR	8-72	CEK	1-73				
AREAS	W.M.	9-72	JAW	1-73				
VOLUMES	W.M.	9-72	JAW	1-73				
SEEDING	W.M.	9-72	JAW	1-73				

SEEDING	
END WIDTH	SQ. YDS.
27	74
26	73
26	73
26	73
26	73
26	36
0	
1060 TOTAL	



Earthwork & Seeding totals carried to Sht. 55

End Area Cut	End Area Fill	Volume Cut	Volume Fill	Seeding End Width	Seeding Sq. Yds.
				0	
0	41			14	20
		0	38		33
0	41			10	
		0	38		27
0	41			9	
		0	37		25
0	39			9	
		0	38		47
0	42			25	
		0	39	25	70
0	42			25	
		0	19		70
0	0			25	
					70
				25	
					72
				27	
					77
				28	
				27	77
TOTAL		0	470	27	



FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

86
191

AUGLAIZE COUNTY

AUG.-75-4.97

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
+34.4	0	0	1	0
	3	0	2	0
	1	0		
			1	1
	0	1		
			0	2
	0	2		
			0	18
	0	36		
			0	34
	0	38		
			0	33
	0	34		
			0	31
	0	32		
			0	30
	0	32		
			0	34
	0	41		
			0	39
	0	42		
			0	39
697+75	0	41		

X-SECTIONS STA. 695+50 TO 700+50 (MEDIAN) I.R.-75

SEEDING

END WIDTH	SQ. YDS.

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WTR	7-72	CFT	7-72				
TEMPLATE	RR	8-72	CEK	8-72				
DITCHES	RR	8-72	CEK	8-72				
AREAS	RR	8-72	JF	8-72				
VOLUMES	RR	8-72	JF	8-72				
SEEDING	RR	8-72	JF	8-72				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG.-75-4.97

87
191

END AREA		VOLUME	
CUT	FILL	CUT	FILL

0 10 20 30 40 50 60 70 80 90

328+00
937.00

327+50
937.95

327+00
938.80

326+50
939.55

326+00
940.20

325+50
940.75

325+00
941.20

324+50
941.55

324+00
941.80

No Work This Sheet

331+00
929.25

330+50
930.75

330+00
932.20

329+50
933.55

329+00
934.80

328+50
935.95

X-SECTIONS STA. 324+00 TO 331+00 (RIGHT) I.R.-75

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WM	7-72	JF	7-72				
TEMPLATE	RR	8-72	CEK	8-72				
DITCHES	"	"	"	"				
AREAS	RR	8-72	JF	8-72				
VOLUMES	RR	8-72	JF	8-72				
SEEDING	RR	8-72	JF	8-72				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

88
191

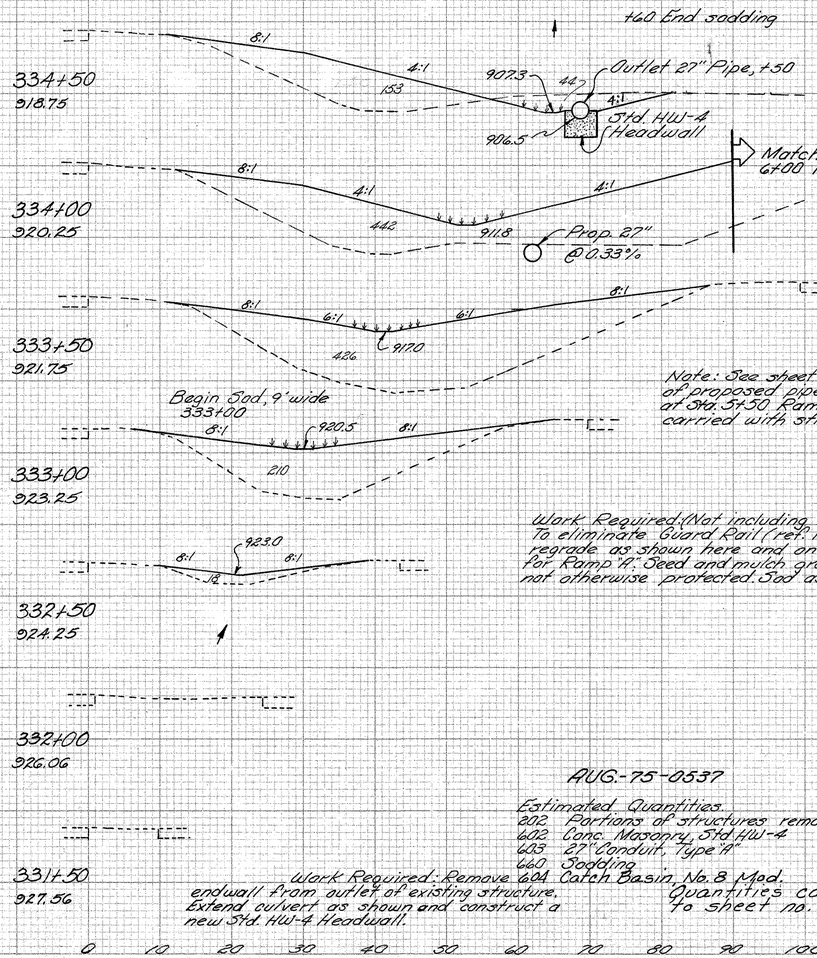
AUGLAIZE COUNTY

AUG.-75-4.97

SEEDING END WIDTH	SEEDING SQ. YDS	
67		Back Only
	386	
72		
	400	
72		
	344	
52		
	239	
34		
	94	
0		322+00
	1463	Total To Sheet No. 55

0 10 20 30 40 50 60 70 80 90 100

See Sheet 116 For Plan View



Note: See sheet 116 for connection of proposed pipe to existing structure at Sta. 3+50 Ramp "A"; sodding as shown, carried with structure AUG-75-0537.

Work Required: (Not including structure) To eliminate Guard Rail (ref. 13-6) regrade as shown here and on sheet 116 for Ramp "A". Seed and mulch graded areas not otherwise protected. Sod as shown.

AUG.-75-0537

Estimated Quantities

202	Portions of structures removed	Lump
602	Conc. Masonry, Std. HW-4	0.49 Cu.Yd.
625	27" Conduit, Type "A"	90 Lin.Ft.
660	Sodding	140 Sq.Yd.
		1 Each

Work Required: Remove 604 Catch Basin No. 8 Mod. endwall from outlet of existing structure. Extend culvert as shown and construct a new Std. HW-4 Headwall.

Quantities carried To sheet no. 35

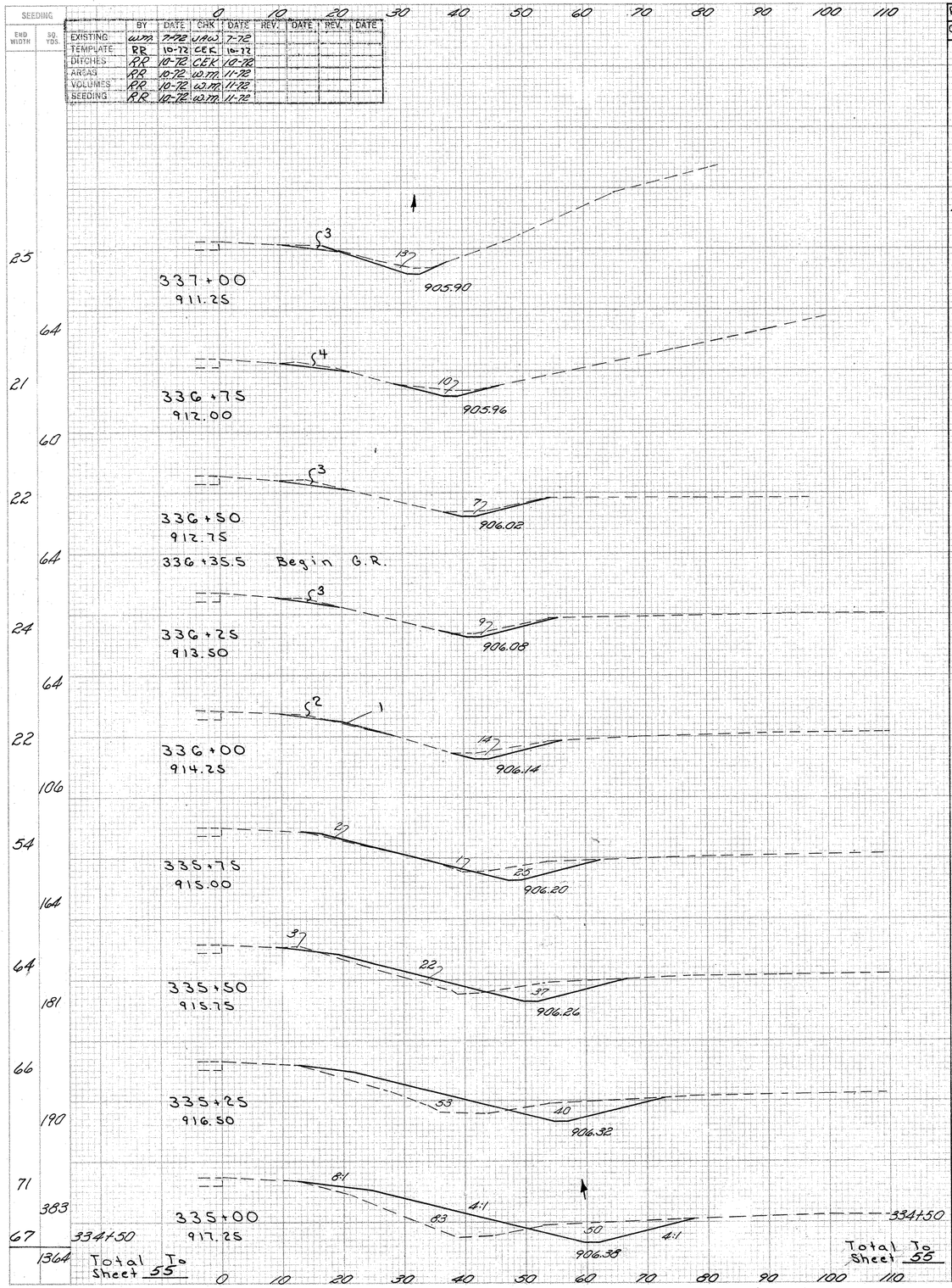
0 10 20 30 40 50 60 70 80 90 100

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Back Only	44	153		8
Begin Cut +40	0			0 551
			0	442
			0	803
			0	426
			0	589
			0	210
			0	211
			0	18
			0	17
	0	0		
Total To Sheet 55			8	2171

X-SECTIONS STR. 331+50 to 334+50 (RIGHT) IR-25

SEEDING	
END WIDTH	SQ. YDS.

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WJM	7-72	JAW	7-72				
TEMPLATE	RR	10-72	CEK	10-72				
DITCHES	RR	10-72	CEK	10-72				
AREAS	RR	10-72	WJM	11-72				
VOLUMES	RR	10-72	WJM	11-72				
SEEDING	RR	10-72	WJM	11-72				



End Area Cut	End Area Fill	Volume Cut	Volume Fill	Seeding End Width	Seeding SQ. YDS.
16	0				
		14	0		
14	0				
		11	0		
10	0				
		10	0		
12	0				
		13	1		
16	1				
		19	2		
25	3				
		30	12		
40	22				
		37	35		
40	53			0	27
		42	63		
50	83			19	
		87	219		
44	153			61	
		283	332	25	
337+00					

0 10 20 30 40 50 60 70 80 90

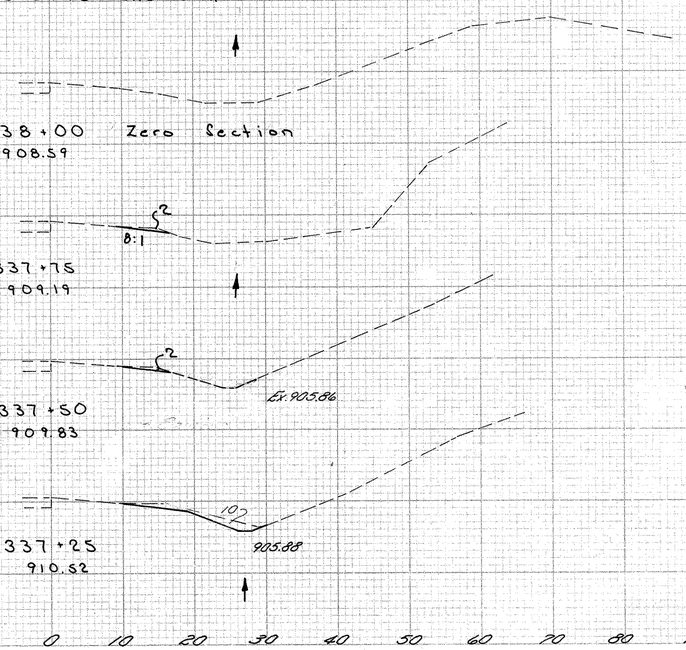
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG.-75-4.97

89
191

Work Required: Regrade the existing ditch from the proposed outlet of structure AUG-75-0537 at Sta. 334+00, 68.5' Rt., Elev. 906.5' to Sta. 337+30; 30' as to drain; as shown.



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	0		
		1	0
2	0		
		2	0
2	0		
		5	0
10	0		
		12	0
15	0		

X-SECTIONS STA. 335+00 to 338+00 (RIGHT) I.R-75

SEEDING	
END WIDTH	SQ. YDS

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	7-72						
TEMPLATE								
DITCHES								
AREAS								
VOLUMES								
SEEDING								

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

90
191

AUGLAIZE COUNTY

AUG.-75-4.97

END AREA		VOLUME	
CUT	FILL	CUT	FILL

344+50
903.60

344+00
903.75

343+50
903.90

343+00
904.05

12+00 (B)
904.15

900.3

Existing 30" @ 0.80%

AUG.-75-0556
No Work

342+50
904.20

342+00
904.35

0 10 20 30 40 50 60 70 80 90 100

X-SECTIONS STA. 342+00 TO 344+50 (RIGHT) I.R.-75

No Work this Sheet

360+00
899.63

359+50
899.57

359+00
899.55

358+50
899.57

0 10 20 30 40 50 60 70 80

X-SECTIONS STA. 358+50 TO 360+00 (RIGHT) I.R.-75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

91
191

AUGLAIZE COUNTY

AUG.-75-4.97

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	7-72	JRD	8-72				
TEMPLATE	RR	8-72	CEK	1-73				
DITCHES	RR	8-72	CEK	1-73				
AREAS	W.M.	9-72	TS	10-72				
VOLUMES	W.M.	9-72	TS	10-72				
SEEDING	W.M.	8-72	TS	10-72				

SEEDING	
END WIDTH	SQ. YDS.
57	317
57	124
55	187
57	317
57	314
56	308
55	297
52	275
47	253
44	247
45	
5367	TOTAL

0 10 20 30 40 50 60 70

35Rt75 End GR.

352+50
901.20
11
180
3.2:1
26
3:1
891.4

AUG.-75-0571
For details see
Sheet # 39

352+00
901.35
11
141
2:1
49
887.9

351+80
901.41
11
Existing twin
15'-10" x 9'-10"
C.M.P. @ 0.4%
140
2:1
5
47
887.9

351+50
901.50
12
3:1
130
77
890.2

351+00
901.65
13
89
67
891.0

350+50
901.80
10
84
3:1
97
4
892.0

350+00 Begin G.R.
901.95
8
132
3.5:1
3
892.8

349+50
902.10
7
115
4:1
5
4:1
894.0

349+00
902.25
11
80
4

348+50
902.40
9
76
5

348+00 Ahead Only
902.55
8
84
69
4:1
5
4:1
896.0

Earthwork & Seeding totals carried to Shr. 55

0 10 20 30 40 50 60 70

End Area Cut	End Area Fill	Volume Cut	Volume Fill	Seeding End Width	Seeding Sq. Yds.
				0	
					103
				37	
37	180				
					44
		90	297		
					250
60	141				
					46
		28	106		
					264
16	146			49	
		20	153		281
19	130				
					52
		35	203		
					294
19	89				
					54
		30	172		
					297
14	97				
					53
		23	212		
					306
11	132				
					57
		22	229		
					311
12	115				
		25	181	55	
15	80				
		27	145		308
14	76				
		25	135		56
13	69				314
					57
		715	4772	352+50	

TOTAL

358+00 Zero Section
899.63

357+50
899.72
8
81
55
4:1
892.8

357+00
899.85
10
94
892.7

356+50
900.00
12
116
892.55

356+00
900.15
9
144
3
892.4

355+50
900.30
11
169
4:7
892.25

355+00
900.45
12
176
3
892.1

354+50
900.60
12
167
5
4:1
892.05

354+00
900.75
16
180
4:1
12
3:1
891.9

353+50
900.90
17
183
3:1
19
891.75

353+00
901.05
13
212
3:1
22
3:1
891.6

352+50

0 10 20 30 40 50 60 70

END AREA Cut	END AREA Fill	VOLUME Cut	VOLUME Fill
358+00 0	0		
		9	51
9	55		
		19	138
11	94		
		22	195
13	116		
		23	241
12	144		
		25	290
15	169		
		28	320
15	176		
		30	318
17	167		
		42	322
28	180		
		60	336
36	183		
		65	365
35	212		
		67	363
352+50	37 180		

X-SECTIONS STA. 348+00 to 358+00 (RIGHT) I.R.-75

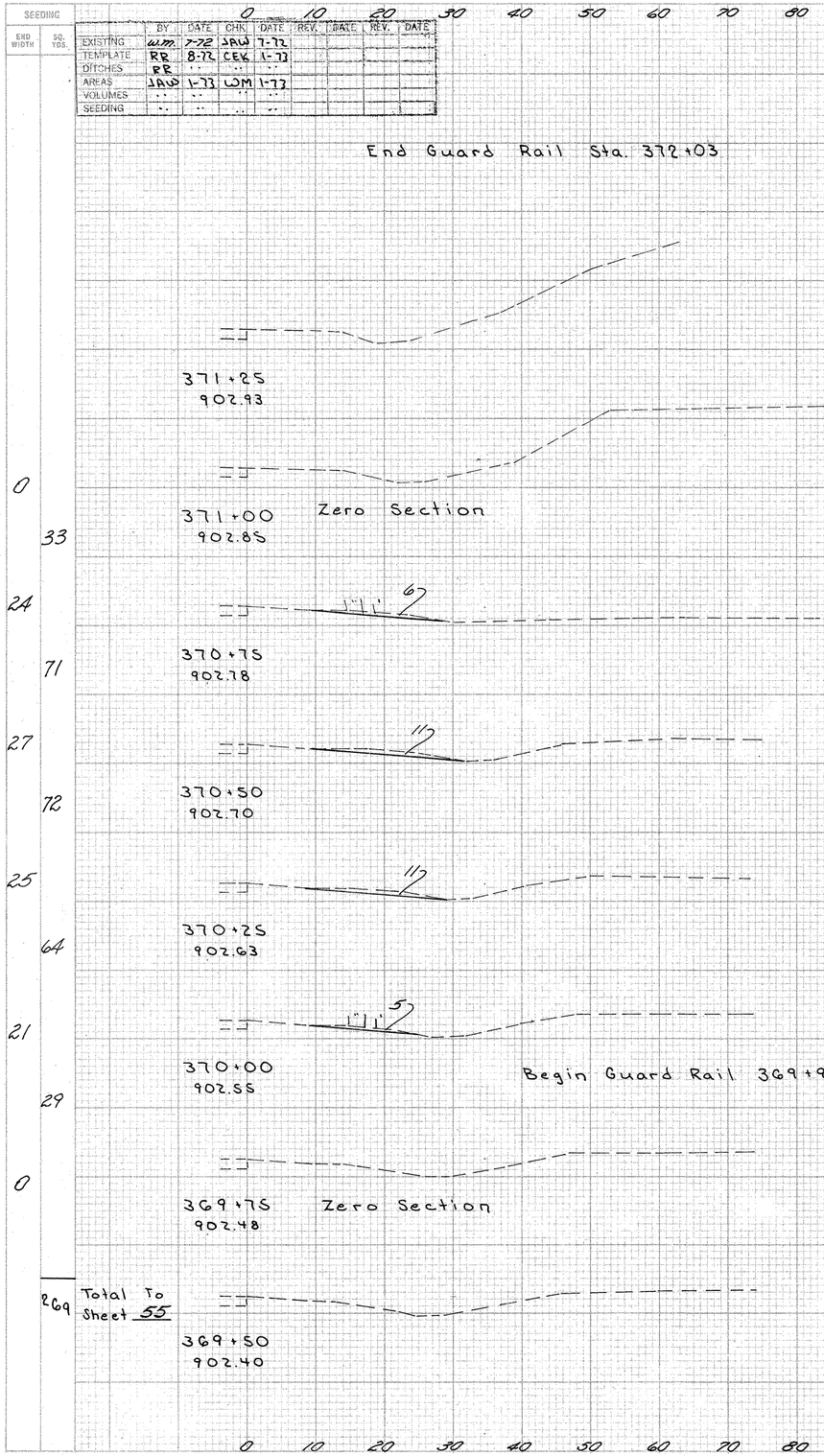
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

92
191

AUGLAIZE COUNTY

AUG-75-4.97

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	7-72	JAW	7-72				
TEMPLATE	RR	8-72	CEK	1-73				
DITCHES	RR	"	"	"				
AREAS	JAW	1-73	WM	1-73				
VOLUMES	"	"	"	"				
SEEDING	"	"	"	"				



Work Required: Regrade as shown to allow Guard Rail Construction. Seed and mulch all graded areas.

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	0		
		3	0
6	0		
		8	0
11	0		
		10	0
11	0		
		7	0
5	0		
		2	0
0	0		
		30	0

Total to Sheet 55

X-SECTIONS STA. 369+50 TO 371+25 (RIGHT) I.R.-75

SEEDING									
END WIDTH	SQ. YDS.		BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
		EXISTING	W.M.	7-72	JF	7-73				
		TEMPLATE	RR	8-72	CEK	2-73				
		DITCHES	RR	8-72	CEK	2-73				
		AREAS	W.M.	2-73	JAW	2-73				
		VOLUMES	W.M.	2-73	JAW	2-73				
		SEEDING	JF	8-72	W.M.	2-73				

0 10 20 30 40 50 60 70 80

A11+00
896.23

105 21

8:1 4:1 5.8:1

+69 reoutlet existing 4" field tile into back slope

603 8" Conduit, Type F 10 L.F.
Quantity to Sheet No. 55

A10+50
896.15

96 20

8:1 6.5:1

+20 reoutlet existing 8" field tile into back slope

603 8" Conduit, Type F 10 L.F.
Quantity to Sheet No. 55

A10+00
896.11

93 20

8:1 6.6:1

+00 End Sod

A09+50
896.10

96 26

8:1 5.5:1

A09+00
896.23

85 41

8:1 5:1

A08+50
896.20

52 62

8:1 4:1 5:1

A08+00
896.31

25 51

8:1 5:1

A07+80
896.36

32 62

12:1 5:1

Existing 48" @ 0.55%

AUG.-75-0670
For details see sheet # 42

A07+74
896.37

0 52

12:1 2:1

Existing 48" @ 0.55%

405+74 Zero Section

405+74

END AREA CUT 0 0

VOLUME CUT 0 192 2777

FILL 917

SEEDING END WIDTH 66 66 367 66 367 66 367 66 367 66 367 66 367 66 367 66 66

SEEDING SQ. YDS. 367 367 367 367 367 367 367 367 367 367 367 367 367 367 6098

411+00

0 10 20 30 40 50 60 70 80

A15+50
897.13

106 14

8:1 5.5:1

A15+00
897.03

112 13

8:1 5.5:1

A14+50
896.93

110 17

8:1 5.5:1

A14+00
896.83

113 18

8:1 6:1

A13+50
896.73

107 18

8:1 5.5:1

A13+00
896.63

113 15

8:1 5.4:1

A12+50
896.53

111 14

8:1 5:1

A12+00
896.43

110 21

8:1 5.2:1

+43 reoutlet existing 4" field tile into back slope.
603 Conduit, 8" Type F 10 L.F.
quantity to sheet 55

A11+50
896.33

115 21

8:1 4:1 5.3:1

411+00

END AREA CUT 106 112 110 113 107 113 111 110 115 105

FILL 14 13 17 18 18 15 14 21 21

VOLUME CUT 202 206 207 204 204 208 205 209 204

FILL 25 28 33 34 31 27 33 39 39

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

93
191

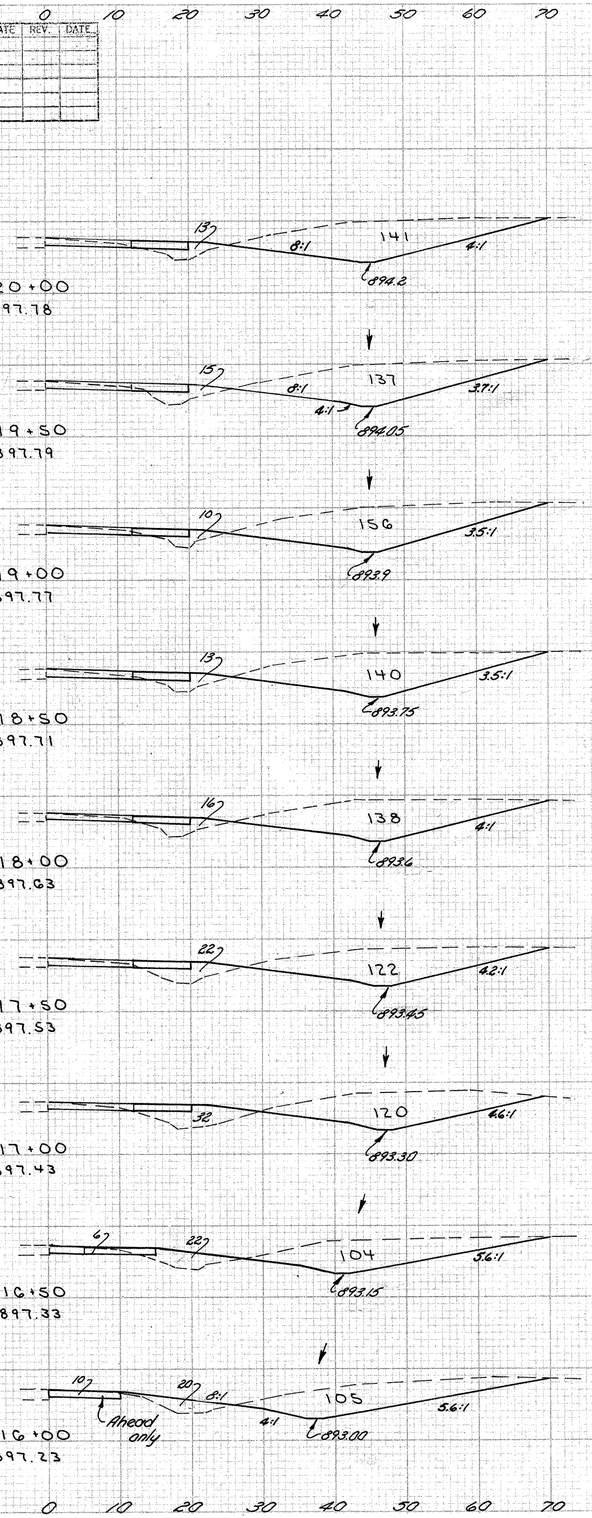
AUGLAIZE COUNTY

AUG.-75-4.97

X-SECTIONS STA. 407+74 TO 415+50 (RIGHT) IR.-75

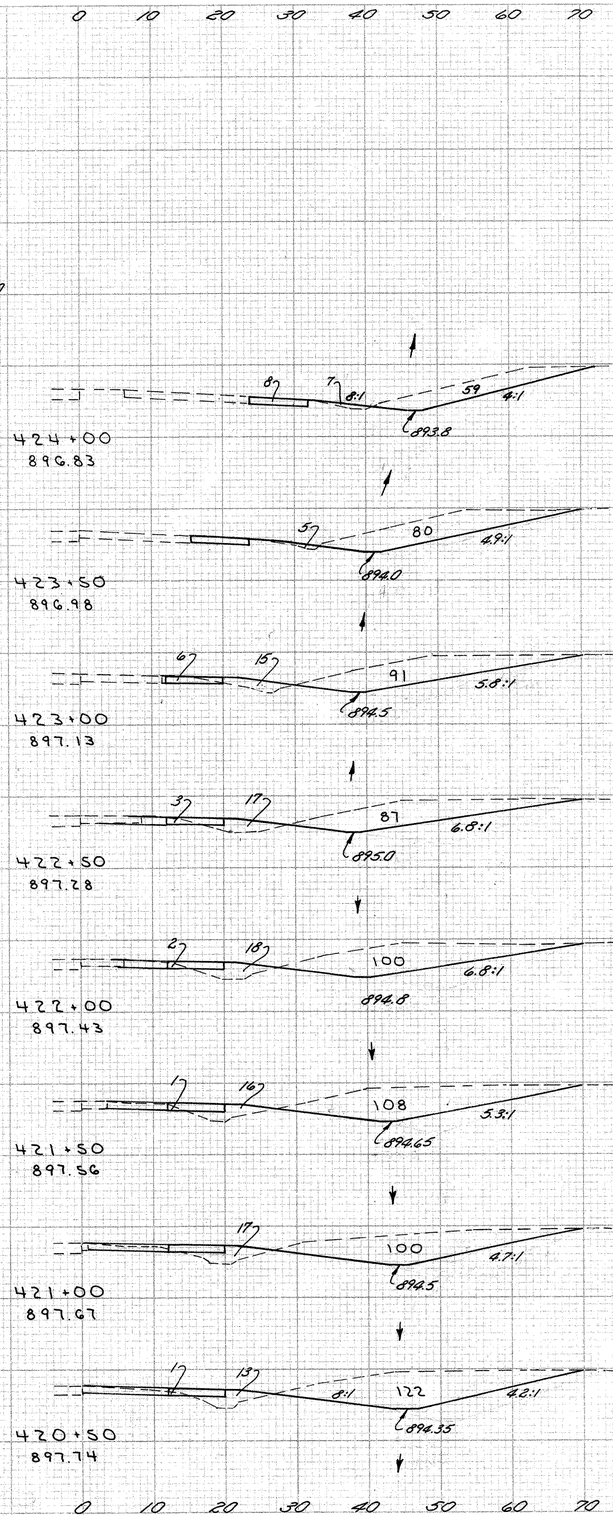
SEEDING	
END WIDTH	SQ. YDS
55	306
55	306
55	306
55	306
55	306
55	306
55	306
55	320
60	347
65	364
66	

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WMR	7-72	JAW	8-73				
TEMPLATE	RR	8-72	CEK	2-73				
DITCHES	RR	8-72	CEK	2-73				
AREAS	WMR	2-73	JAW	2-73				
VOLUMES	WMR	2-73	JAW	2-73				
SEEDING	WMR	2-73	JAW	2-73				



Earthwork & Seeding totals carried to Sht. 55

End Area		Volume		Seeding	
Cut	Fill	Cut	Fill	End Width	Sq. Yds.
141	13				
				55	0
		258	26		
				55	250
137	15				
				55	45
		272	23		
				55	269
156	10				
				55	52
		274	22		
				55	297
140	13				
				55	55
		258	27		
				55	306
138	16				
				55	55
		241	35		
				55	306
122	22				
				55	55
		224	50		
				55	306
120	32				
				55	55
		213	50		
				55	306
110	22				
				55	55
		209	39		
				55	306
115	20				
				55	55
		205	32		
				55	306
106	14				
Total		3771	525		5519



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
		124	13
67	7		
		136	11
80	5		
		164	19
97	15		
		173	30
90	17		
		178	33
102	18		
		196	32
109	16		
		194	31
100	17		
		207	28
123	13		
		245	24
141	13		

FED. RD. DIVISION	STATE		
2	OHIO		

94
191

AUGLAIZE COUNTY

AUG.-75-4.97

X-SECTIONS STA. 416+00 to 424+00 (RIGHT) I.R.-75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

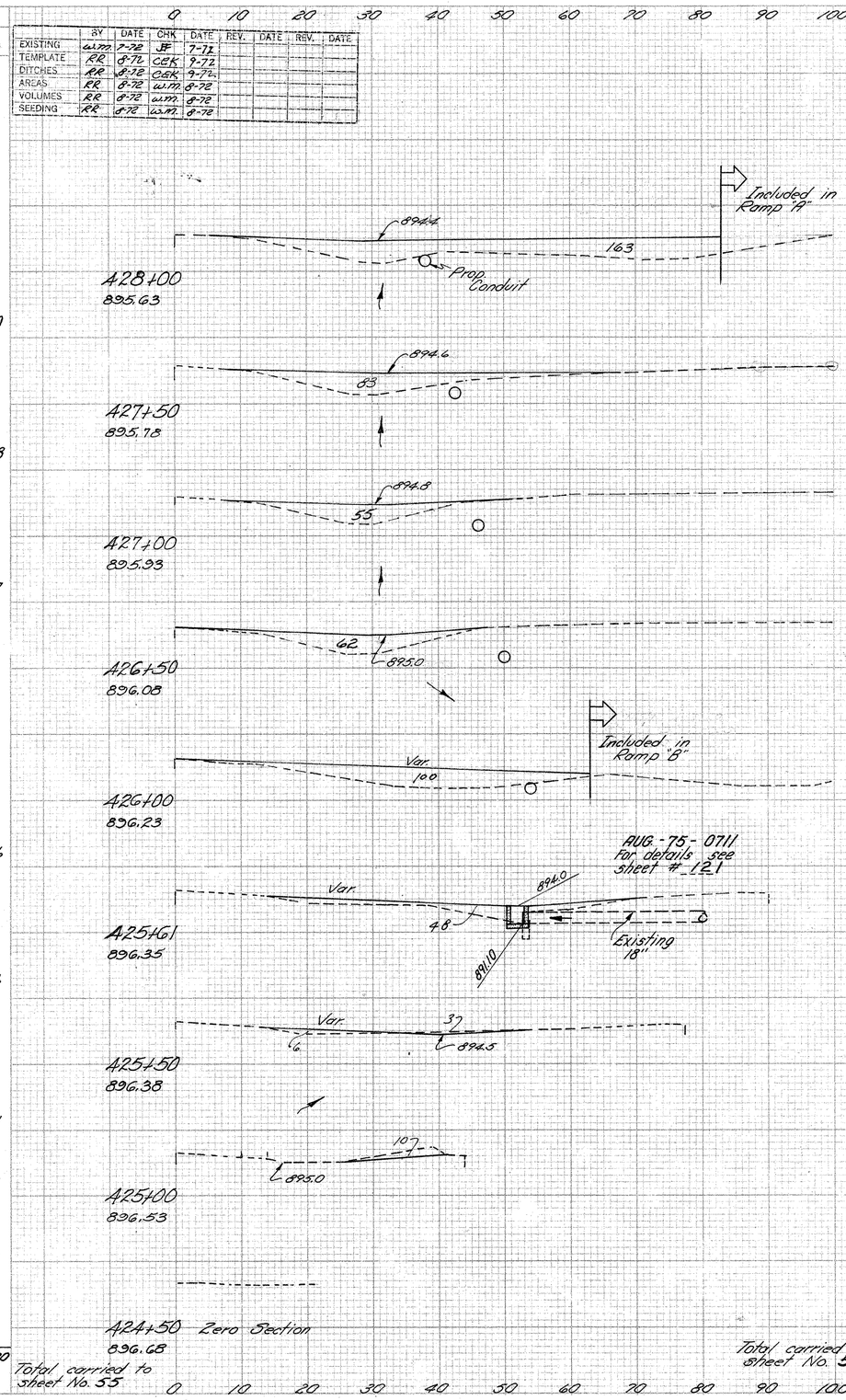
95/191

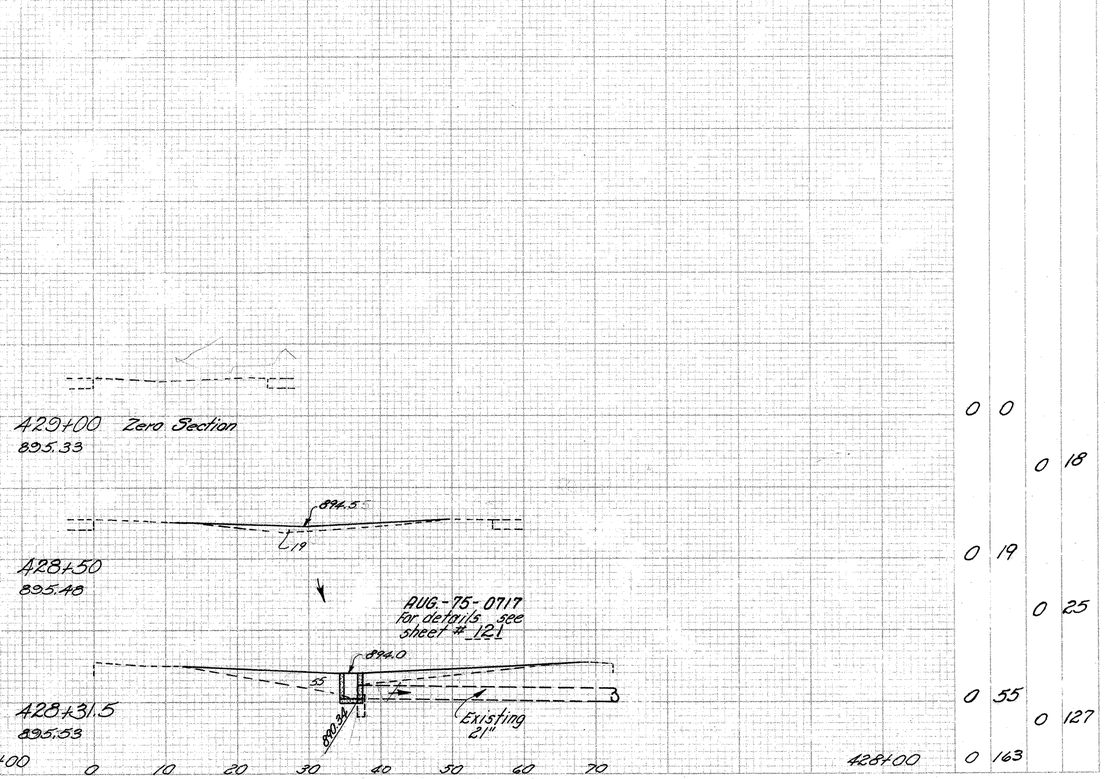
AUGLAIZE COUNTY
AUG.-75-4.97

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WM.	7-72	JF	7-72				
TEMPLATE	RR	8-72	CEK	9-72				
DITCHES	RR	8-72	CEK	9-72				
AREAS	RR	8-72	WM.	8-72				
VOLUMES	RR	8-72	WM.	8-72				
SEEDING	RR	8-72	WM.	8-72				

SEEDING		END AREA		VOLUME		SEEDING	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL	END WIDTH	SQ. YDS.
80		0	163				
	400			0	228		
64		0	83				
	308			0	128		
47		0	55				
	267			0	109		
49		0	62				
	311			0	150		
63		0	100				
	266	3	100	0	107		
60		0	48				
	64	0	43	1	11		
45		3	6			0	
	181	3	3	12	6	117	
20		10	0				
	56	10	0	10	0	42	
0		0	0			60	
	2320			23	909	245	
						80	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
		0	18
0	19		
		0	25
0	55		
		0	127
0	163		



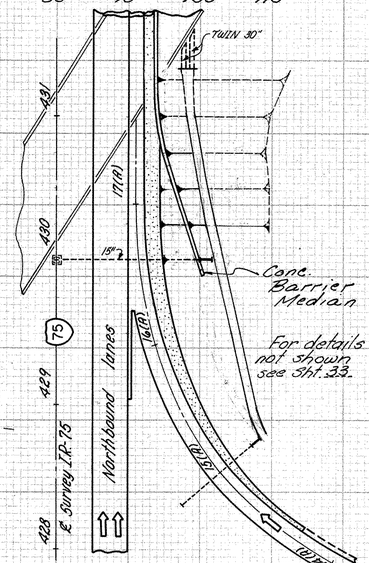


X-SECTIONS STA. 424+50 to 429+00 (RIGHT) I.R.-75

SEEDING		0	10	20	30	40	50	60	70	80	90	100	110
END WIDTH	SQ. YDS.												

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	a.m.m.	7-72	JAW	8-72				
TEMPLATE	JTS	9-72	RR	11-72	CEK	12-72		
DITCHES	JTS	9-72	RR	11-72	CEK	1-73		
AREAS	JTS	9-72	CFT	1-73				
VOLUMES	JTS	10-72	CFT	1-73				
SEEDING	JTS	10-72	CFT	1-73				

See sheet 97 for Sta. 432+50



End Area Cut	End Area Fill	Volume Cut	Volume Fill	Seeding End Width	Seeding Sq. Yds.
				0	
					217
4	4			78	
		3	4		453
5	3			85	
		3	4		467
2	6			83	
		3	7		453
4	8			80	
		5	7		442
7	6			79	
		7	7		428
8	9			75	
		36	14		417
70	20			75	
		65	19		417
71	21			75	
		88	18		417
118	17			75	
		110	15		417
119	15			75	
		110	17		417
118	21			75	
		110	20		422
0	0			77	
		2845	1215		6517
				Total	

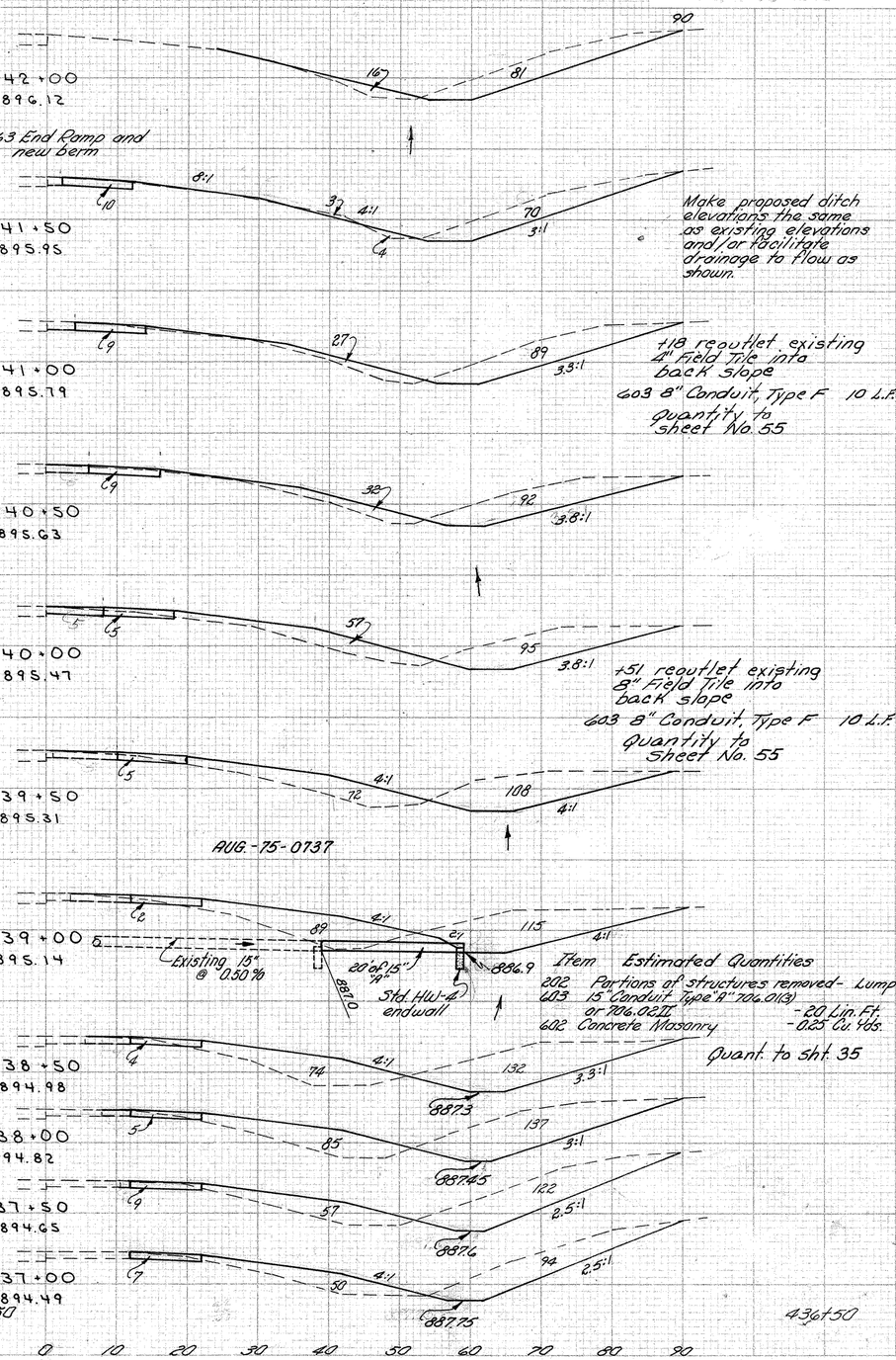
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG-75-4.97

9d 191

442+50 Zero Section



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	0		
		75	15
81	16		
		152	19
83	4		
		168	29
98	27		
		184	55
101	32		
		186	83
100	57		
		197	120
113	72		
		213	149
117	89		
		235	151
136	74		
		258	147
142	85		
		253	132
131	57		
		215	99
101	50		
		169	84
81	40		

X-SECTIONS STA 429+50 to 432+00 (RIGHT) I.R.-75

X-SECTIONS STA 427+00 to 442+00 (RIGHT) I.R.-75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG. - 75 - 4.97

97
191

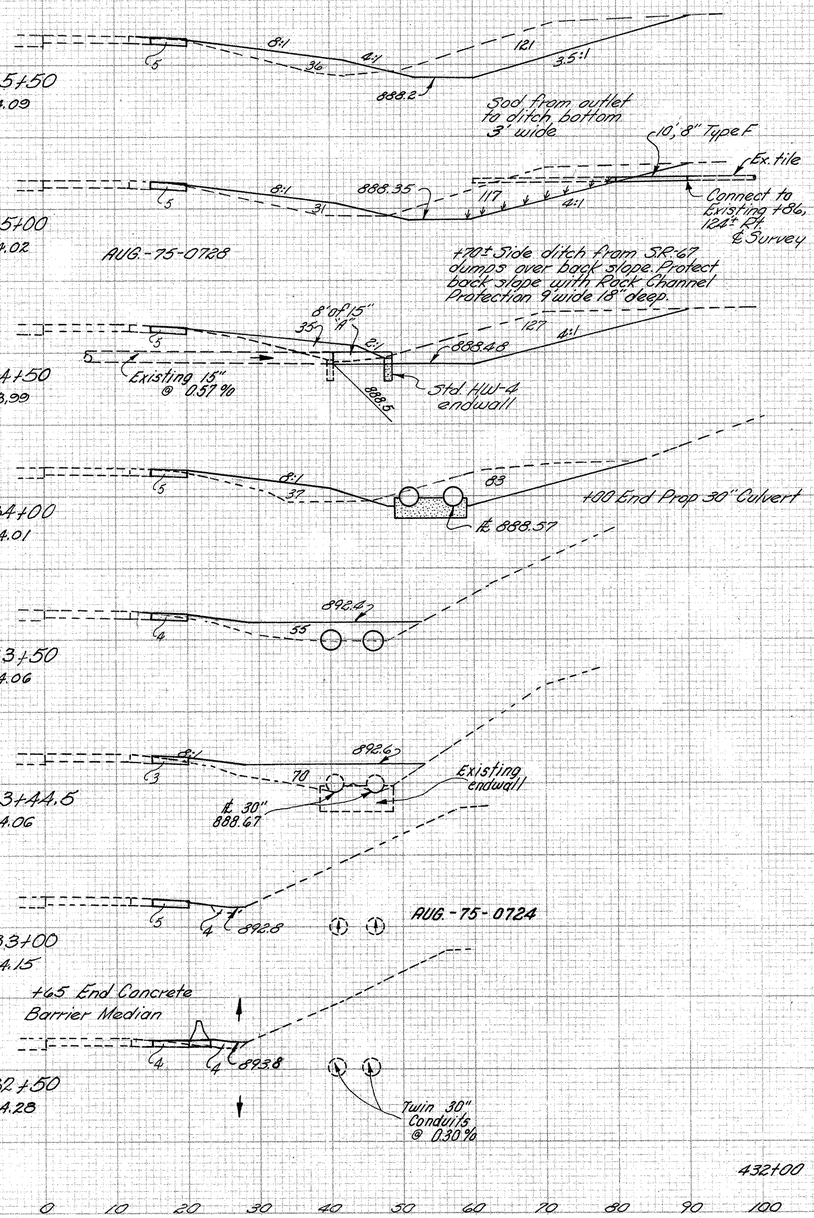
	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WJM	8-72	JF	8-72				
TEMPLATE	RR	11-72	CEK	1-73				
DITCHES	RR	11-72	CEK	1-73				
AREAS	RR	11-72	WJM	6-73				
VOLUMES	RR	11-72	WJM	6-73				
SEEDING	RR	11-72	WJM	6-73				

Estimated Quantities AUG.-75-0728

603	15" Conduit Type A 706.01(3) or 706.02 II	8 Lin. Ft.
602	Concrete Masonry	0.25 Cu. Yds.
202	Portions of Structures Removed	Lump Lump
603	8" Conduit, Type F	10 Lin. Ft.
660	Seeding	7 Sq. Yds.
601	Rock Channel Protection, Type B	21 Cu. Yds.

Work Required: Remove headwall from existing structure, extend structure length and construct new headwall as shown. Provide new outlet for tile line outleting on back slope and sod as indicated. Provide slope protection for back slope as noted.

Quant. to Sht. 35



END AREA		VOLUME		SEEDING	
CUT	FILL	CUT	FILL	END WIDTH	SQ. YDS
121	36				
		221	62		
117	31				
		226	61		
127	35				
		195	67		
83	37				
		81	85		
4	55				
		1	13		
3	70				
		7	61		
5	4				77
		9	8		425
4	4				76
		8	8		419
4	4				75
1145	519				2662

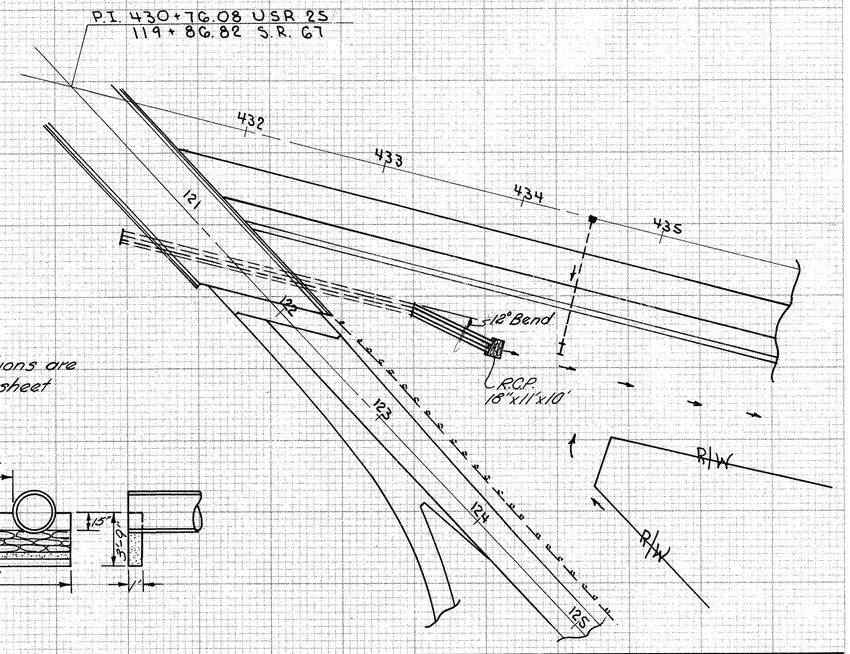
Work Required: Remove headwall from existing structure, extend structure length and construct new headwall as shown. Place sod at outlet end of structure 11' wide & 10' long.

AUG.-75-0724

Estimated Quantities

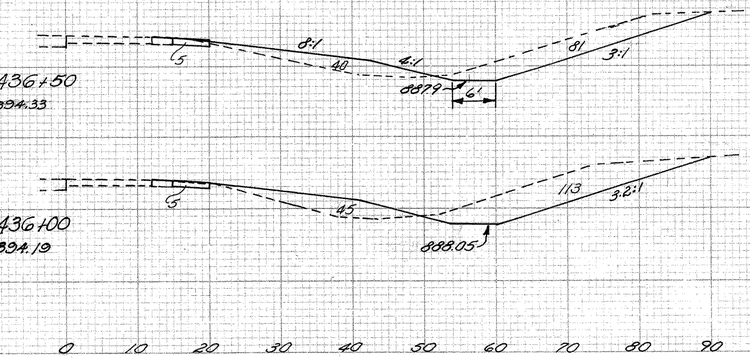
603	30" Conduit, Type "C" 706.02 II	116 Lin. Ft.
602	Concrete Masonry	1.32 Cu. Yds.
202	Portions of Structures Removed	Lump
601	Rock Channel Protection Type "B"	81 Cu. Yds.

Quant. to Sht. 35



Prop. X-Sections are left and on sheet No. 119

SEE SHEET NO. 96 FOR 437+00



END AREA		VOLUME		
CUT	FILL	CUT	FILL	
81	40			
				180 79
113	45			
				217 75
121	36			

X-SECTIONS STA. 432+50 TO 436+50 (RIGHT) I.R.-75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

98/191

AUGLAIZE COUNTY

AUG.-75-4.97

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	8-72	JF	8-73				
TEMPLATE	RR	10-72	CEK	1-73				
DITCHES	RR	10-72	CEK	1-73				
AREAS	RR	10-72	W.M.	1-73				
VOLUMES	RR	10-72	W.M.	1-73				
SEEDING	RR	10-72	W.M.	1-73				

SEEDING		END AREA		VOLUME		SEEDING	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL	END WIDTH	SQ. YDS.
0						0	
	72					69	
40						25	
	203					180	
33						40	
	189					236	
35						45	
	219					256	
44						47	
	219					228	
35						35	
	97					97	
0						0	
	999						

AA8+32.5
896.93
+30 Zero Section

448+00
896.93
8:1, 25?, 3:1

447+50
896.93
8:1, 24?, 3:1

447+00
896.93
8:1, 40
+79 Begin Guard Rail

446+50
896.93
8:1, 4?, 4:1

446+00
896.92
8:1, 8?, 4:1

445+50 Zero Section

Totals to sheet 55

END AREA				VOLUME			
CUT	FILL			CUT	FILL		
0	0						
0	0						
0	25			0	15		
0	24			0	46		
0	40			0	60		
0	47			0	80		
0	21			0	63		
0	0			0	20		
				0	284		

Totals to sheet 55

A53+00
896.93
Zero Section
490
480.94

Guard Rail ends at 452+62.79

452+50
896.93
8:1, 10?, 2:1

452+00
896.93
24?

Note: Do not disturb paved gutter or sod ditch bottom between Sta. 451+25 and 452+00

451+50
896.93
41?

451+00
896.93
40?

450+50
896.93
8:1, 10?, 2:1

450+05.5
896.93

450+00
896.93

Work Required: Regrade from the bridge ahead to allow an adequate bench on which to construct guardrail as indicated.

Totals to sheet 55

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
		0	10
0	10		
		0	32
0	24		
		0	60
0	41		
		0	75
0	40		
		0	47
0	10		
		0	10
0	0		
		0	234

X-SECTIONS STA 446+00 to 448+32.5 (RIGHT) I.R-75

X-SECTIONS STA. 450+00 to 453+00 (RIGHT) I.R-75

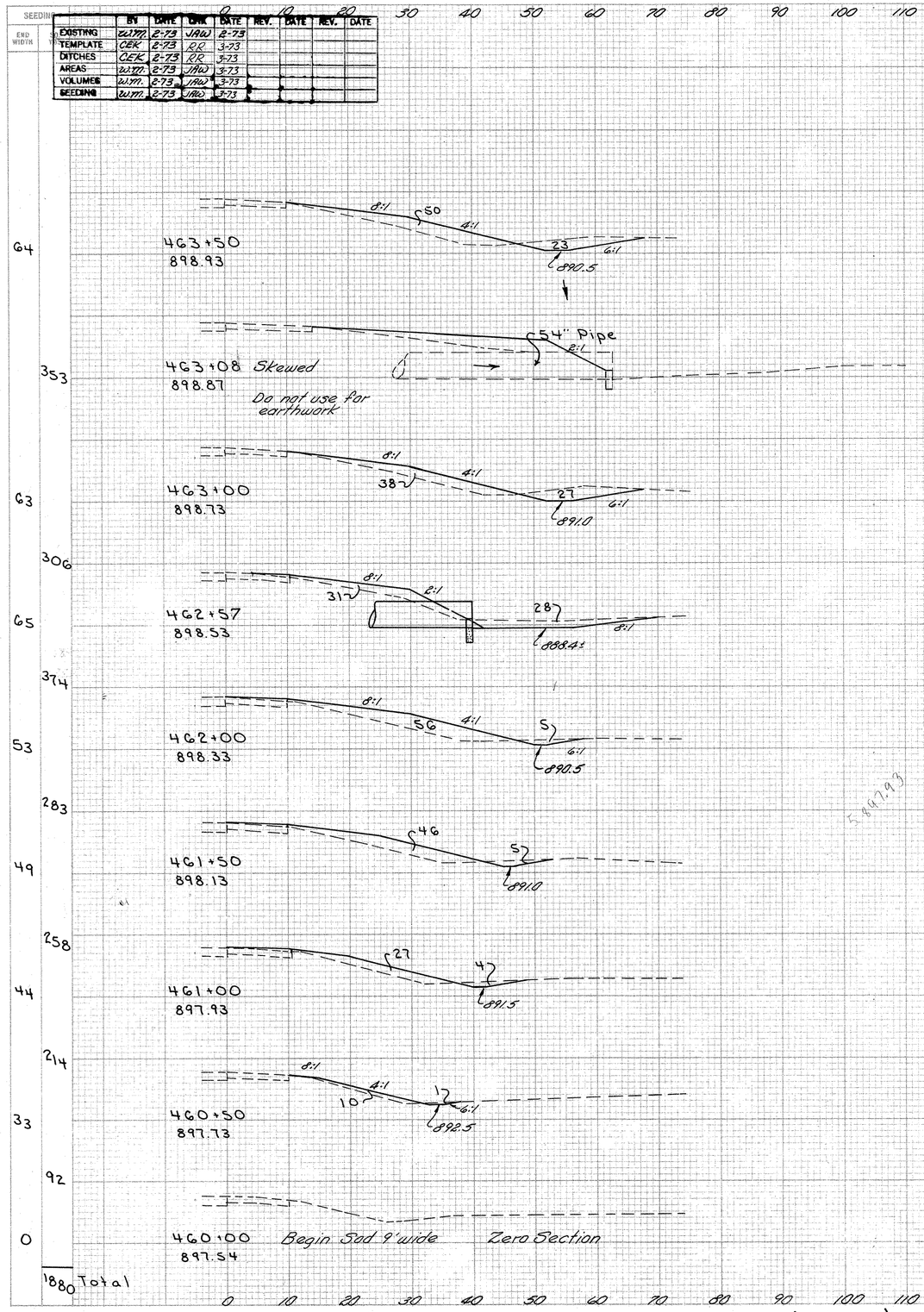
	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	2-73	JAW	2-73				
TEMPLATE	CEK	2-73	RR	3-73				
DITCHES	CEK	2-73	RR	3-73				
AREAS	W.M.	2-73	JAW	3-73				
VOLUMES	W.M.	2-73	JAW	3-73				
SEEDING	W.M.	2-73	JAW	3-73				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

99/191

AUGLAIZE COUNTY

AUG.-75-4.97



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
23	50		
		47	82
27	38		
		44	55
28	31		
		35	92
5	56		
		10	95
5	46		
		9	68
4	27		
		5	35
1	10		
		1	10
0	0		
Total		151	437

Totals to Sheet 55

X-SECTIONS STA. 460+00 TO 463+50 (RIGHT) I.R. 75

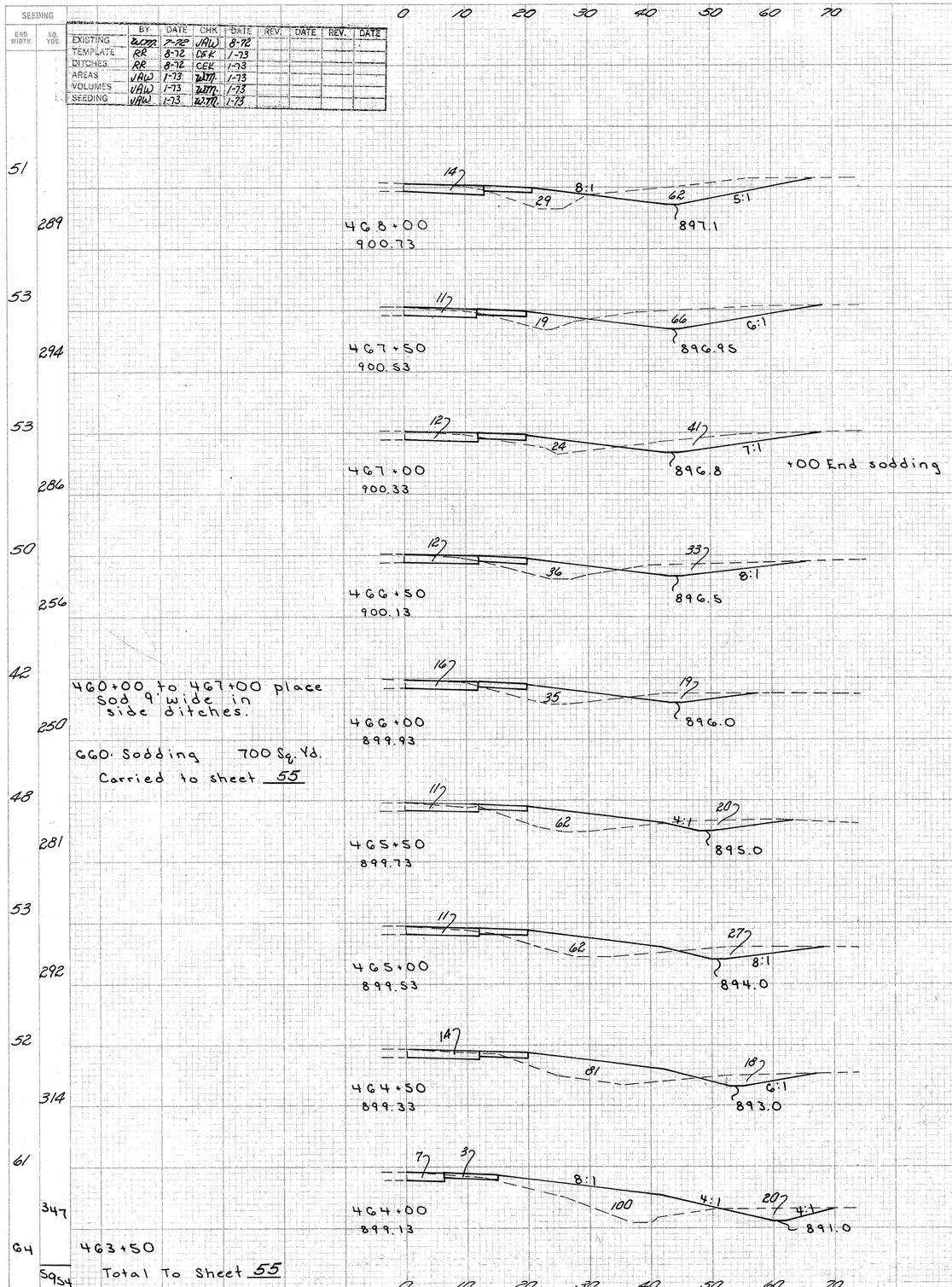
SEEDING		BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
END WIDTH	SQ. YDS.								
		EXISTING	WMM	2-72	JAW	8-72			
		TEMPLATE	RR	8-72	CEK	1-73			
		DITCHES	RR	8-72	CEK	1-73			
		AREAS	JAW	1-73	WMM	1-73			
		VOLUMES	JAW	1-73	WMM	1-73			
		SEEDING	JAW	1-73	WMM	1-73			

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

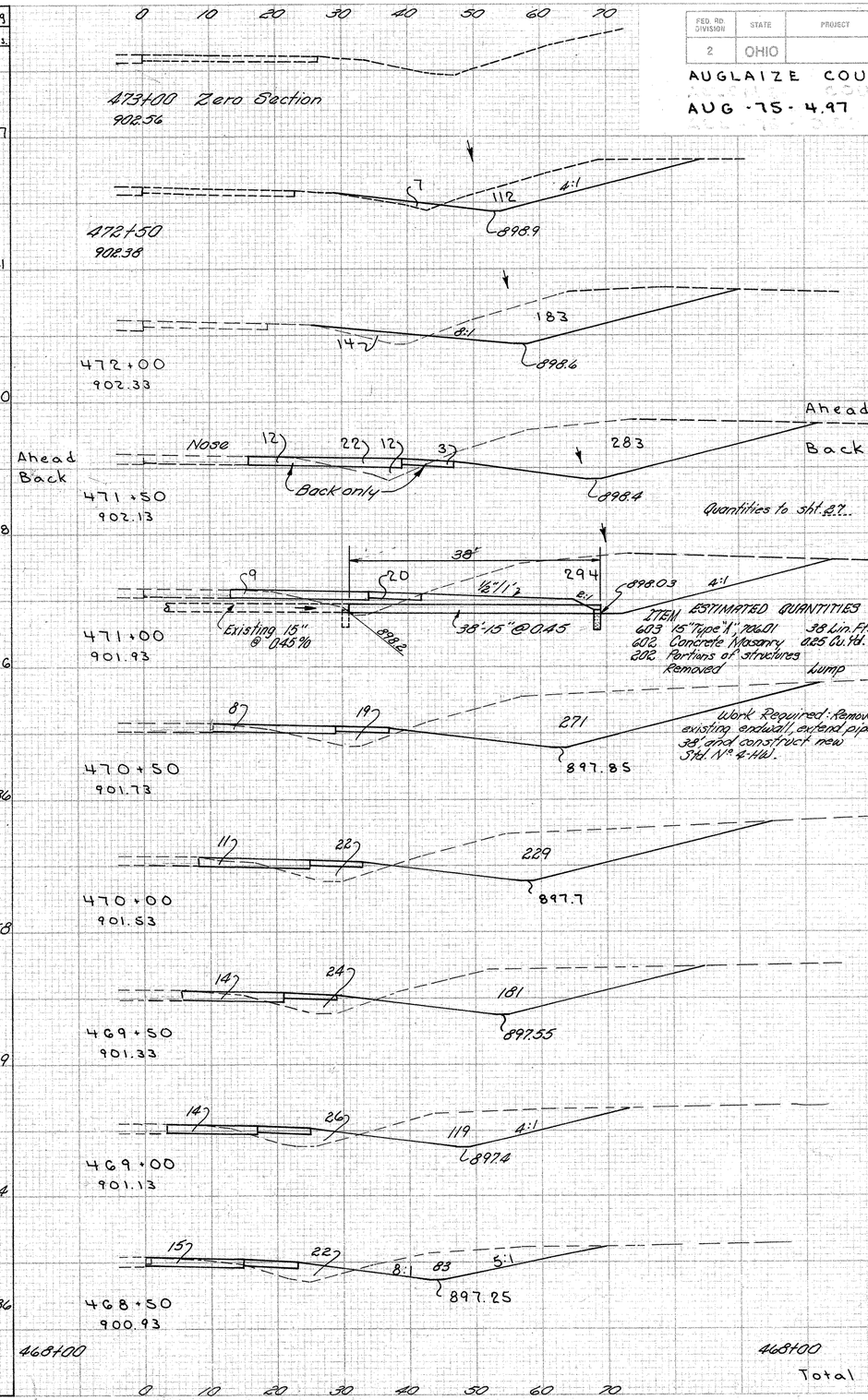
100
191

AUGLAIZE COUNTY

AUG-75-4.97



End Area		Volume		Seeding	
Cut	Fill	Cut	Fill	End Width	Sq. Yds.
				0	
					167
76	29			60	
		142	45		361
77	19			70	
		120	40		430
53	24			85	
				61	
		91	56		358
45	36			68	
		74	66		386
35	35			71	
		61	90		386
31	62			68	
		64	115		358
38	62			61	
		65	133		319
32	81			54	
		58	167		294
30	100			52	
		49	139		286
23	50			51	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
		104	7
112	7		
		273	20
183	14		
		432	45
283	34		
Ahead			
298	12		
Back			
		557	30
303	20		
		539	36
279	19		
		481	38
240	22		
		403	42
195	24		
		303	46
133	26		
		214	45
98	22		
		161	47
76	29		
Total		4191	1207

X-SECTIONS STA. 464+00 to 472+00 (RIGHT) I.R.-75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG-75-4.97

101
191

	BY	DATE	CHK	DATE
QUANTITIES	MLM	8-72	GRD	9-72
SURVEY	CGL	1-73	RR	2-73
NOTES	CEK	1-73	RR	2-73
CHECKED	JAD	4-73	WM	4-73
AREAS	JAD	4-73	WM	4-75
VOLUMES	JAD	4-73	WM	4-75
SEEDING	MW	4-73	WM	4-73

SEEDING

END WIDTH	SQ. YDS
42	250
48	275
51	289
53	303
56	156
0	1273 Total

Zero Section 483+00

Earthwork & Seeding totals carried to Sht. 55

485+50
903.75
902.5
Included in Truck Ramp

485+00
903.83
902.45

484+50
903.94
902.40

+00.17 Rt. Catch Basin Std. No. 2-2-B

484+00
904.14
Grate El. 902.36
R El. 900.95
See note

483+50
904.28
902.5
Included in Truck Ramp

Estimated Quantities

604 Catch Basin Std. No. 2-2-B	1 Each	Quantities carried to Sheet 28, Ref. 1-D	
202 Catch Basin Removed	1 Each		
603 12" Conduit, Type A	64 Lin. Ft.		

Work required: Remove the existing Catch Basin at 484+50 and construct a new No. 2-2-B C.B. at the same location with the grate and flow line elevations shown. Outlet this basin with a new 12" line into the existing C.B. at Sta. 92+65, 11 Lt. (Truck Ramp) at El. 900.82. Once all new pipes are connected into the existing basin raise the bottom of the catch basin to El. 900.82

64' "A" @ 9.2% 12" Conduit

work required

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
5	111		
		23	148
20	49		
		50	74
34	31		
		83	40
55	12		
		95	12
47	1		
		44	1
0	0		
Total		895	275

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240

X-SECTIONS STA 483+50 TO STA. 485+50 RT. I.R. 75

BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	6-72	JF	8-72			
TEMPLATE	CER.	1-73	RR	2-73			
DITCHES	CER.	1-73	RR	2-73			
AREAS	JAW	4-73	W.M.	4-73			
VOLUMES	JAW	4-73	W.M.	4-73			
SEEDING	JAW	4-73	W.M.	4-73			

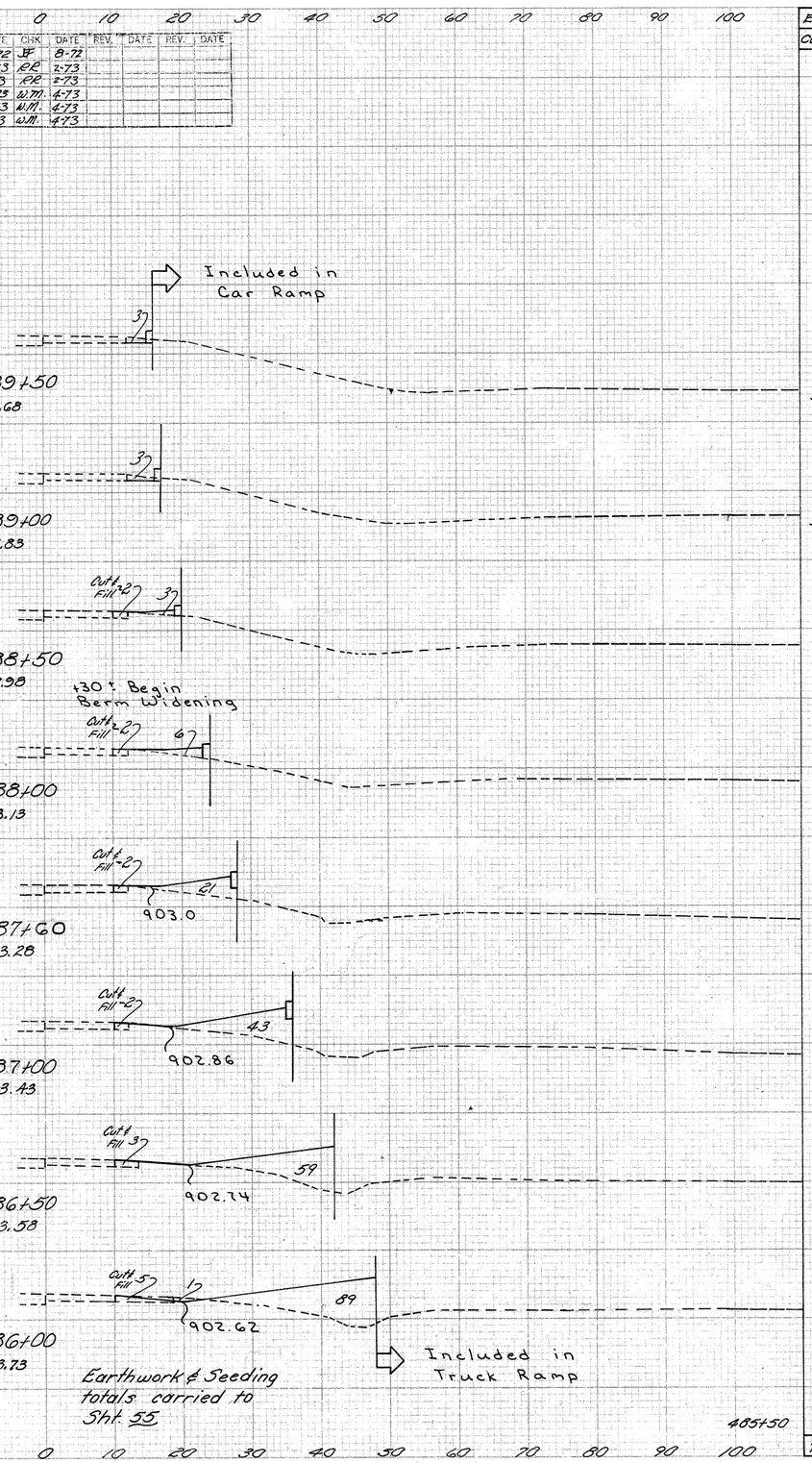
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

102
191

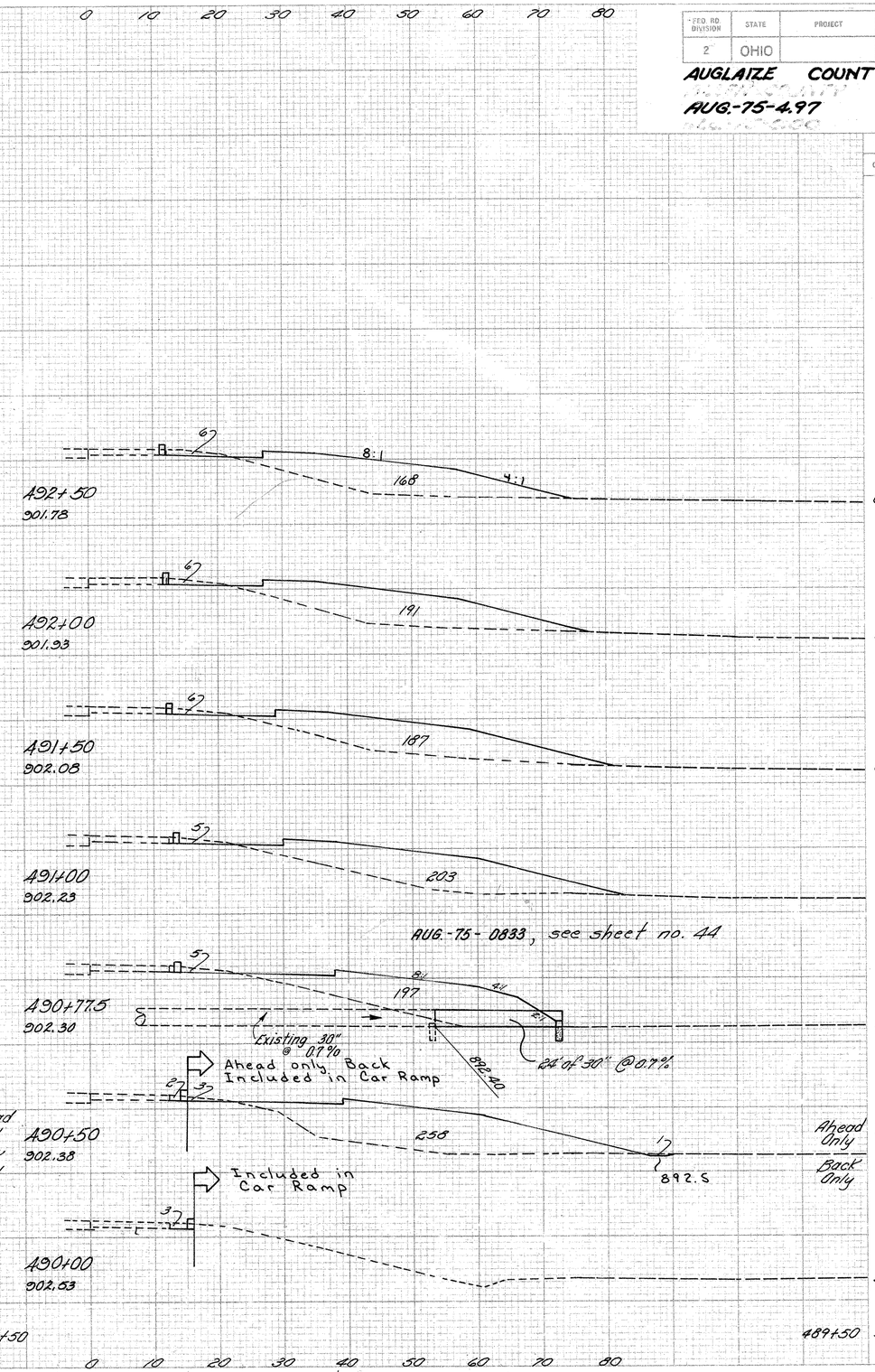
AUGLAIZE COUNTY

AUG.-75-4.97

SEEDING		END AREA		VOLUME		SEEDING	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL	END WIDTH	SQ. YDS.
0							
	25	3	0	6	0		
9							51
	61	3	0				
13				5	5		289
	83	2	5				53
17				4	12		
	117	2	8				300
25				4	29		55
	158	2	23				308
32				4	76		56
	194	2	45				116
38				5	99		39
	222	3	62				143
42				9	145		53
		6	94				0
				10	190		0
		5	111				0
		Total		100	1999		2016



END AREA		VOLUME		
CUT	FILL	CUT	FILL	
6	168			
		11	333	
6	191			
		11	350	
6	187			
		10	361	
5	203			
		4	163	
5	197			
		6	236	
Ahead Only	6	258		
Back Only	2	0		
		5	0	
3	0			
		6	0	
3	0			



X-SECTIONS STA. 486+00 to 492+50 (RIGHT) I.R.-75

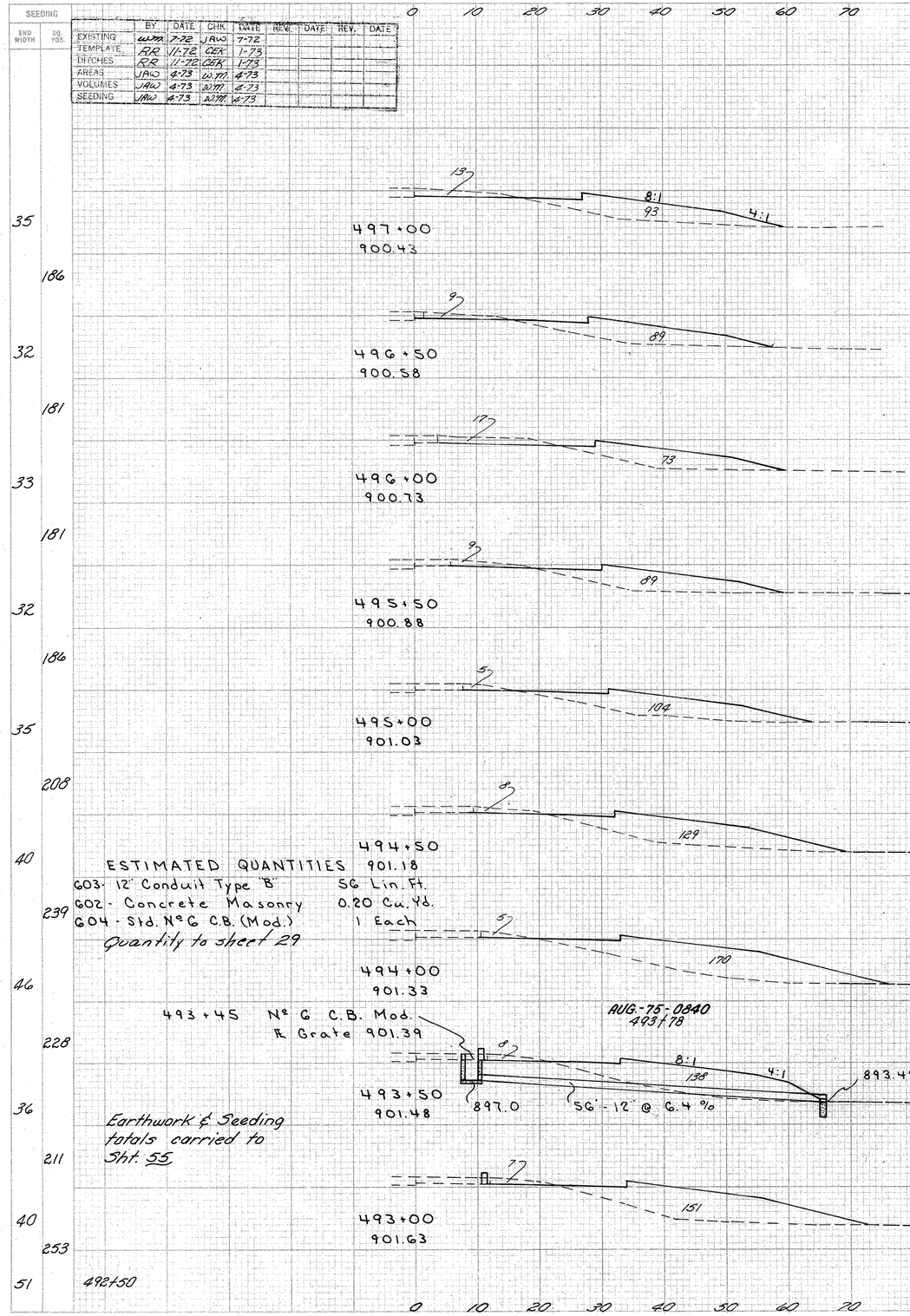
	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WTA	7-72	JAW	7-72				
TEMPLATE	RR	11-72	CEK	1-73				
DITCHES	RR	11-72	CEK	1-73				
AREAS	JAW	4-73	WTA	4-73				
VOLUMES	JAW	4-73	WTA	4-73				
SEEDING	JAW	4-73	WTA	4-73				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG.-75-4.97

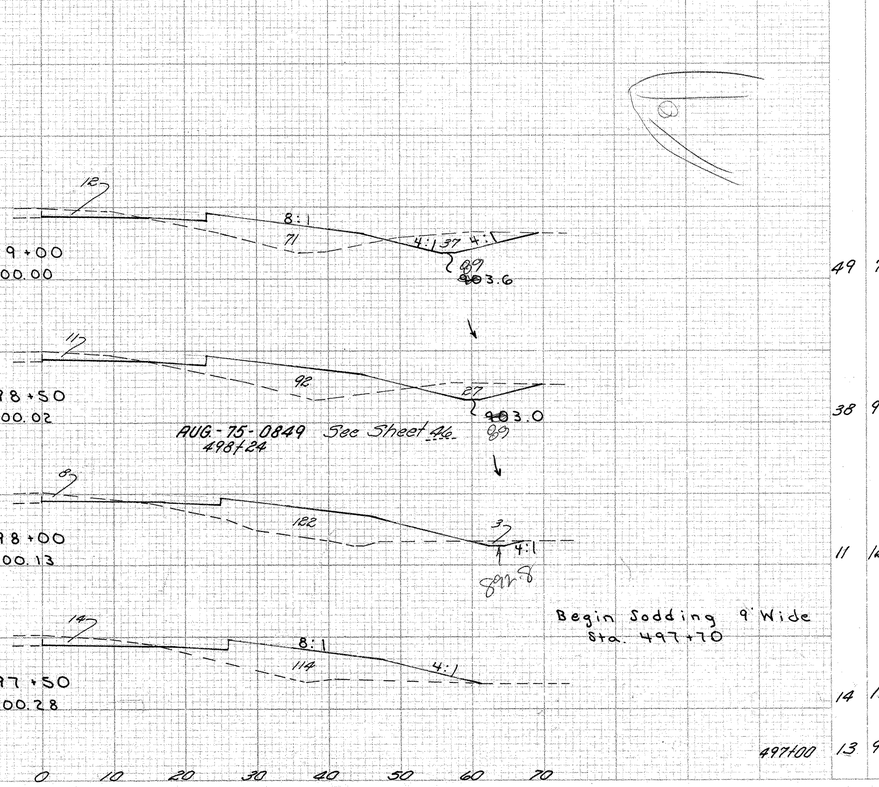
103
191



ESTIMATED QUANTITIES

G03 - 12" Conduit Type B 56 Lin. Ft.
G02 - Concrete Masonry 0.20 Cu. Yds.
G04 - Std. Nº G C.B. (Mod.) 1 Each
Quantity to sheet 29

Earthwork & Seeding totals carried to Sht. 55



X-SECTIONS STA. 493+00 to 499+00 (RIGHT) IR-75

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	2-73	JAW	2-73				
TEMPLATE	RR	2-73	C&K	3-73				
DITCHES	RR	2-73	C&K	3-73				
AREAS	JAW	4-73	W.M.	4-73				
VOLUMES	JAW	4-73	W.M.	4-73				
SEEDING	JAW	4-73	W.M.	4-73				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

104
191

AUGLAIZE COUNTY

AUG.-75-4.97

ESTIMATED QUANTITIES

660 SODDING 1030 Sq. Yds.

Quantity carried to Sheet No. 55

SEEDING END WIDTH	SEEDING SQ. YDS.	End Area Cut	End Area Fill	Volume Cut	Volume Fill	Seeding End Width	Seeding Sq. Yds.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
45	247	35	45	60	102	0		0	0		
44	231	30	65	48	103	50	0	0	5	0	5
39	208	22	46	36	113	125	18	0	5	4	22
36	194	17	76	31	143	164	27	4	19	16	52
34	178	16	78	29	142	172	32	13	37	22	75
30	175	15	75	32	143	186	30	11	44	25	78
33	214	19	79	60	148	231	37	16	40	44	83
44	233	46	81	88	141	253	46	31	49	61	87
40		49	71				45	35	45		
		Total		556	1437		2861				

507+00
906.81
End Sodding 9' Wide

506+50
906.29

506+00
905.77
902.3

505+50
905.25
900.5

505+00
904.73
899.5

504+50
904.21
899.0

504+00
903.69
898.8

503+50
903.17
898.0

503+00

499+00
902.65
897.6

502+50
902.13
896.7

502+00
901.61
896.0

501+50
901.13
895.1

501+00
900.74
894.0

500+50
900.43
894.9

500+00
900.20
894.8

499+50
900.06
894.0

499+00

Earthwork & Seeding totals carried to Sht. 55

X-SECTIONS STA. 499+50 TO 507+00 RIGHT I.R. 75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG.-75-4.97

105/191

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WM.	7-72	JAW	7-72				
TEMPLATE	RR	11-72	CEK	1-73				
DITCHES	RR	11-72	"	"				
AREAS	W.M.	11-72	JAW	1-73				
VOLUMES	W.M.	11-72	"	"				
SEEDING	W.M.	11-72	"	"				

SEEDING END WIDTH	SEEDING SQ. YDS.
0	
	15
11	
	40
18	
	52
19	
	85
42	
	121
45	
	135
52	
	142
50	
	115
33	
	46
0	
	751

Total To Sheet 55

Work Required: Regrade as shown for Pier protection - Guard Rail Construction. Seed and mulch graded areas.

514+12.5 End G.R.

513+50 Zero Section
913.18

513+25
913.00
8:1, 2

513+00
912.80
8:1, 8, 4:1

512+75
912.60
10

512+50
912.39
2, 7, 12, 3:1

512+25
912.17
2, 1, 17, 3.5:1

+00 Begin Guard Rail

512+00
911.95
17, 8:1, 2, 60, 4:1

511+75
911.71
8:1, 40, 4:1

511+50
911.47
19, 4:1

511+25 Zero Section

Total to Sheet 55

End Area Cut	End Area Fill	Volume Cut	Volume Fill	Seeding End Width	Seeding Sq. Yds.
0	0				
		1	0		
2	0				
		5	0	0	32
8	0			23	
		8	0		71
10	0			28	
		14	0		71
19	0			30	
		18	1		111
19	1			50	
		37	2		139
61	2			50	
		47	2		140
40	1			51	
		27	1		136
19	0			47	
		9	0		131
0	0			47	
				0	65
		166	6		896

604+23.5 End G.R.

603+50
908.07

603+25
908.04

603+00
908.03
Zero Section

602+75
908.02
4, 8:1, 5:1

602+50
908.02
6, 5:1

602+25
908.03
2, 10, 4:1

602+00
908.04
17, 9, 10', 4, 6:1, 902.78

601+75
908.07
17, 8:1, 4:1, 4, 12, 902.7

601+50
908.10
8:1, 24, 10, 6:1, 902.62

+50 Begin G.R.

601+25
908.13
8:1, 4:1, 28, 12, 4:1, 902.55

See sheet 35 for culvert quantities

601+00
908.18
15" @ 0.53%
8:1, 38, 902.46, 5, 6:1

600+00 Zero Section

Total to Sheet 55

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	0		
		2	0
4	0		
		5	0
6	0		
		4	5
2	10		
		3	9
5	9		
		5	10
5	12		
		7	17
10	24		
		10	24
12	28		
		8	31
5	38		
0	0	9	70
		53	166

AUG.-75-1043

ITEM	ESTIMATED QUANTITIES	
603	15" Conduit, Type "A"	8 Lin. Ft.
402	Concrete for 15" H.W.A.	0.25 Cu. Yd.
202	Portion of structure Removed	Lump

Quant. to sheet 35

X-SECTIONS STA. 511+50 to 513+50 (RIGHT) I.R.-75

X-SECTIONS STA. 601+00 to 603+50 (RIGHT) I.R.-75

SEEDING

END WIDTH | 50 YDS

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WJM	8-72	JF	8-72				
TEMPLATE								
DITCHES								
AREAS								
VOLUMES								
SEEDING								

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

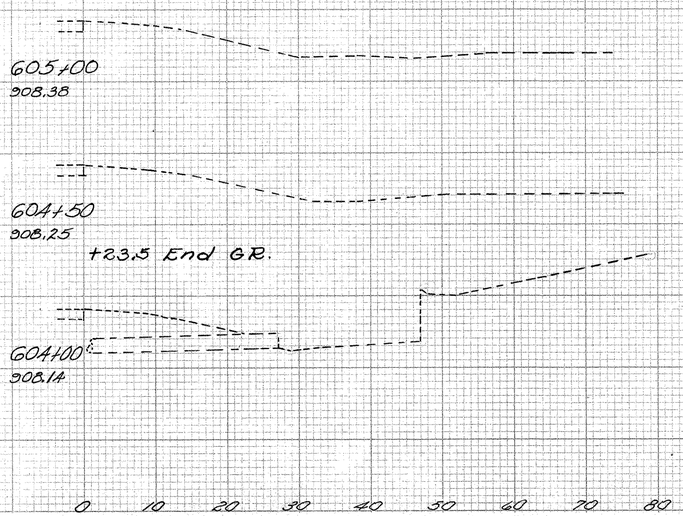
106
191

AUGLAIZE COUNTY

AUG.-75-4.97

END AREA		VOLUME	
CUT	FILL	CUT	FILL

"No Work This Sheet"

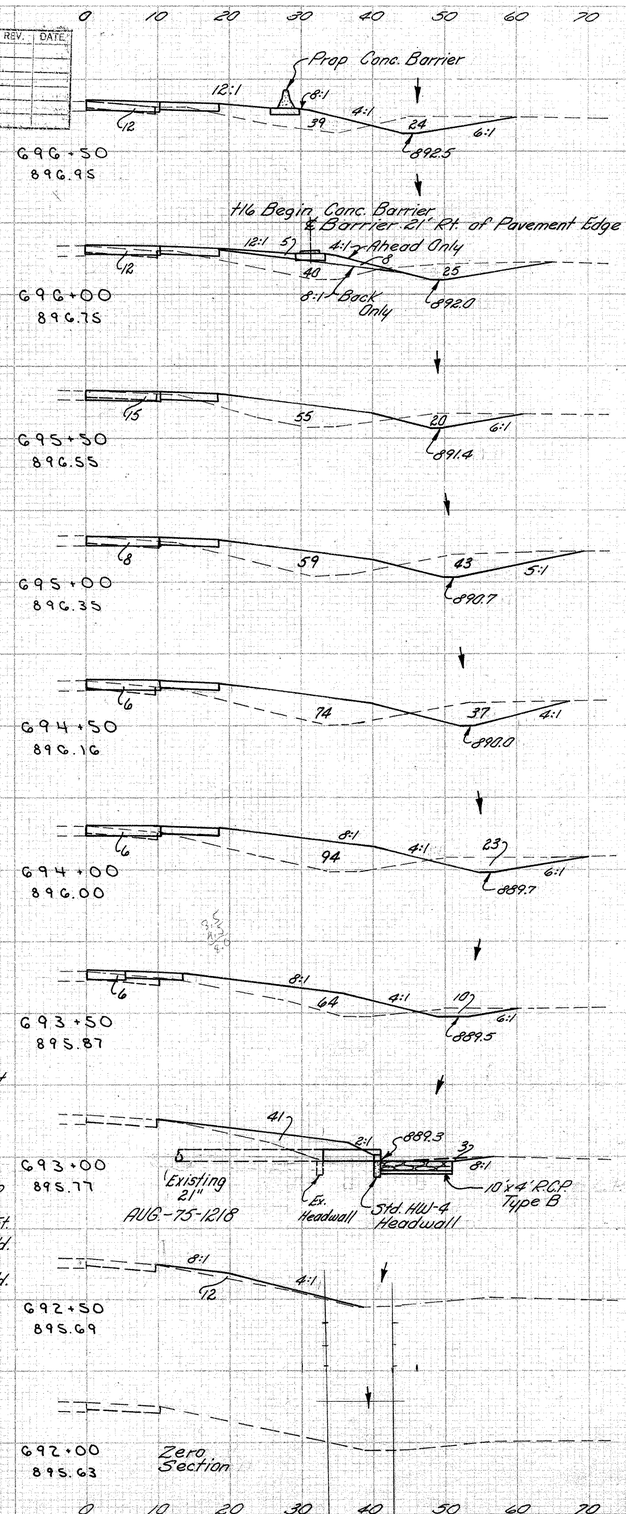


X-SECTIONS STA. 604+00 TO 605+00 (RIGHT) I.R.-75

SEEDING	
END WIDTH	SQ. YDS.
43	
	250
47	
51	
	275
48	
	292
57	
	311
55	
	311
57	
	303
52	
	289
52	
	239
34	
	94
0	

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WTM	7-72	JAW	8-72				
TEMPLATE	RR	11-72	CEK	2-73				
DITCHES	RR	11-72	CEK	2-73				
AREAS	RR	11-72	WTM	2-73				
VOLUMES	WTM	2-73	CET	4-73				
SEEDING	WTM	2-73	CET	4-73				

Ahead
Back

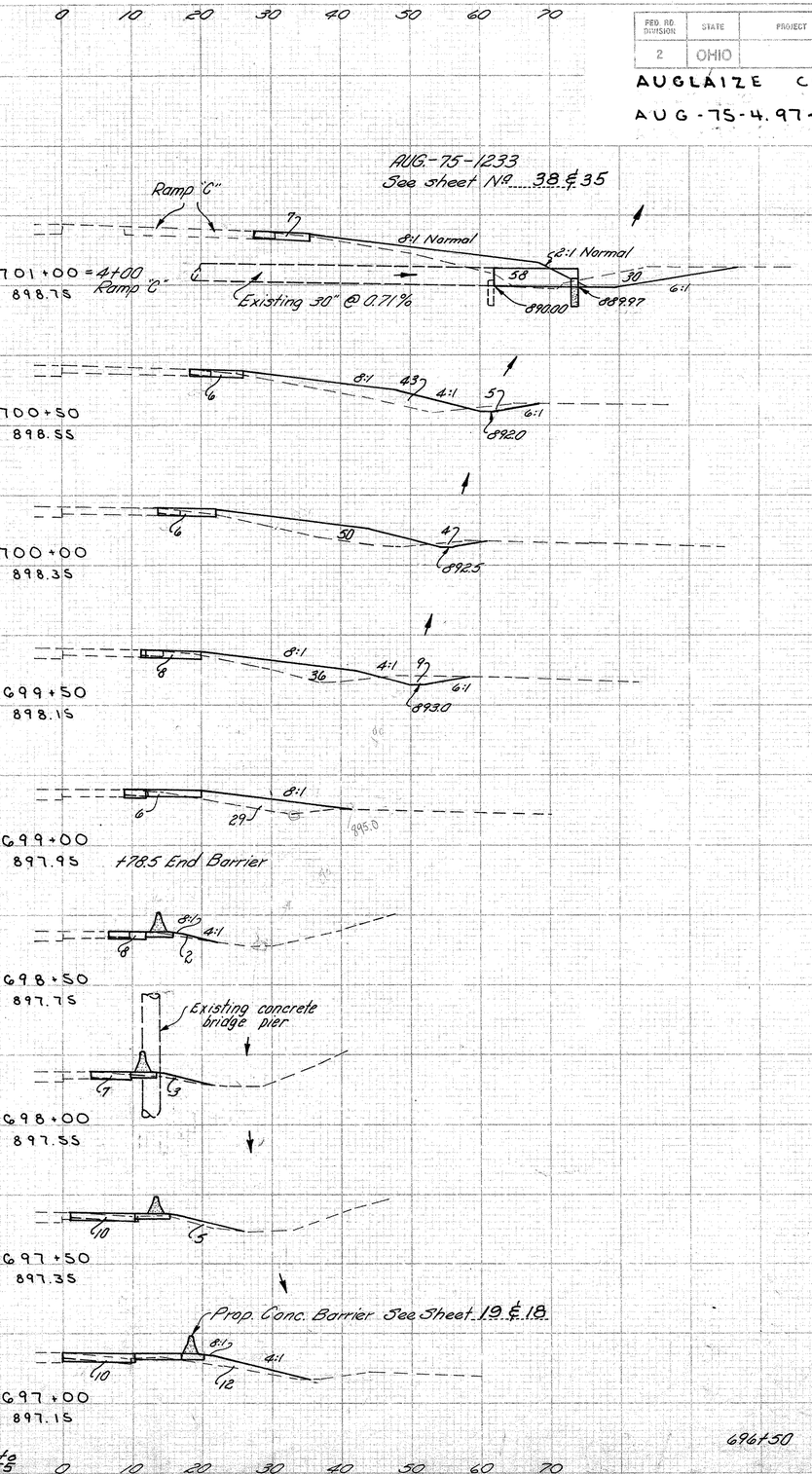


Work Required: Remove headwall from existing structure. Extend the length of the structure, construct a new headwall, and protect the ditch at the outlet as shown.

Item	Estimated Quantities	
202	Portions of structures removed	Lump
603	21" Conduit; Type "A" 706.01(3) or 706.02 II	8 Lin. Ft.
602	Concrete Masonry	3.7 Cu. Yd.
601	Rock Channel Protection Type "B"	3 Cu. Yd.

Quantities to Sheet No. 35

End Area		Volume		Seeding	
Cut	Fill	Cut	Fill	End Width	Sq. Yds.
36	39				
		68	85		
Ahead	37	53			67
Back	37	40			
		67	88		319
35	55			48	
		80	106		250
51	59			44	
		87	123		244
43	74			44	
		67	156		197
29	94			27	
		42	147		108
16	64			12	
		19	97		72
4	41			14	
		4	49		83
0	12			16	
		0	11		103
				21	
0	0			178	
				43	
		651	1287	3924	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
37	58		
		45	94
11	43		
		20	86
10	50		
		25	80
17	36		
		22	60
6	29		
		13	29
8	2		
		14	5
7	3		
		16	8
10	5		
		19	16
10	12		
		43	47
36	39		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG-75-4.97

107
191

AUG-75-1233
See sheet No. 38 & 35

X-SECTIONS STA. 692+00 to 701+00 (RIGHT) IR-75

I.R.-75 & U.S.R.-33 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

108 / 191

AUGLAIZE COUNTY

AUG.-75-4.97

Feather Out Areas

		Ref. 1-P	Ref. 2-P	Ref. 3-P	Ref. 4-P	Total State	Total Fed	
404	Asphalt Concrete	1.85		.39	1.66	4.90		Cu. Yds.
403	Asphalt Concrete	.92	1.33	–	–	.92	1.33	Cu. Yds.
407	Tack Coat	6.67	10.00	6.67	9.56	22.9	10.00	Gals.
407	Cover Aggregate	0.23	0.35	0.23	0.33	0.79	0.35	Ton
Spec.	Graded Plant Mixed Seal Coat		2.08				2.08	Cu. Yds.
202	Pavement Removed	67	94				161	Sq. Yds.

Quantities carried to the Gen. Sum.

Estimated Quantities

Ref. #	202 CURB REMOVED	202 MEDIAN PAVEMENT REMOVED	203 EXCAVATION INCL. EMB. CONSTR.	659 SEEDING AND MULCHING		
	Lin. Ft.	Sq. Yds.	Cu. Yds.	Sq. Yds.		
I-R	208	10	5	12		
Totals	208	10	5	12		

IR-75 & USR-33 INTERCHANGE

SEEDING	
END WIDTH	SQ. YDS.
0	
	93
33	
	153
22	
	103
15	
	42
0	
	391

	BY	DATE	CHK.	DATE	REV.	DATE	REV.	DATE
EXISTING	WJM	7-72	JF	7-72				
TEMPLATE	AR	8-72	CEK	8-72				
DITCHES	AR	8-72	CEK	8-72				
AREAS	AR	8-72	JF	8-72				
VOLUMES	AR	8-72	JF	8-72				
SEEDING	AR	8-72	JF	8-72				

0 10 20 30 40 50 60 70 80

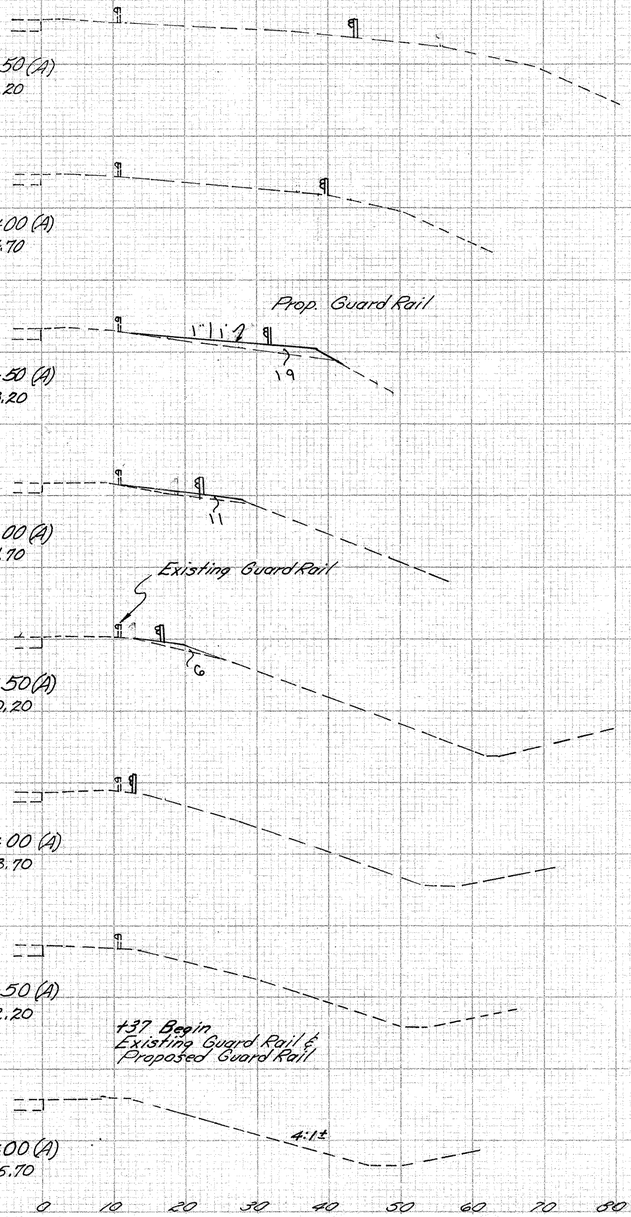
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

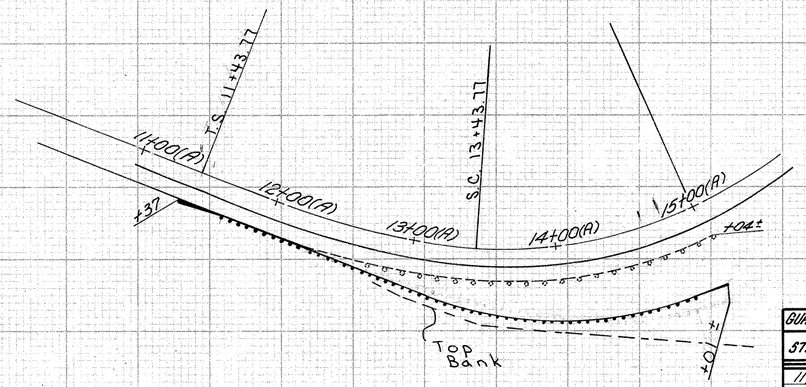
109/191

AUGLAIZE COUNTY

AUG.-75-4.97

END AREA		VOLUME	
CUT	FILL	CUT	FILL

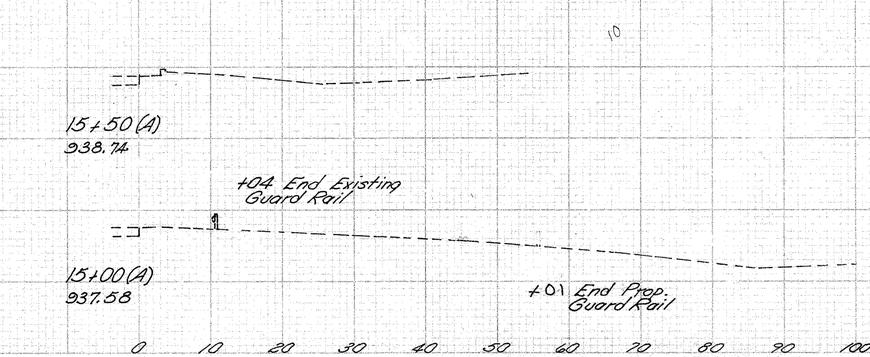




GUARDRAIL POST TABLE	
STATION	DISTANCE FROM E.P. TO FACE OF RAIL
11+37±	10.0'
11+50	10.2'
11+75	11.0'
12+00	12.2'
12+25	13.2'
12+50	14.0'
12+75	18.6'
13+00	21.3'
13+25	26.2'
13+50	31.1'
13+75	35.4'
14+00	39.0'
14+25	41.6'
14+50	42.8'
14+75	43.3'
15+01±	44.3'

Work Required: To remove and store existing guard rail. Construct new guard rail as shown with Anchor Assembly at each end.

Note: For Guard Rail Quantities see sheet number 15



14+00	0	0	
			0 18
13+50	0	19	
			0 28
13+00	0	11	
			0 15
12+50	0	6	
			0 6
12+00	0	0	
			0 67

Total To Sheet # 55

Total To Sht. # 55

X-SECTIONS STA. 11+00(A) TO 15+50(A) I.R.-75 & U.S.R.-33 INTERCHANGE

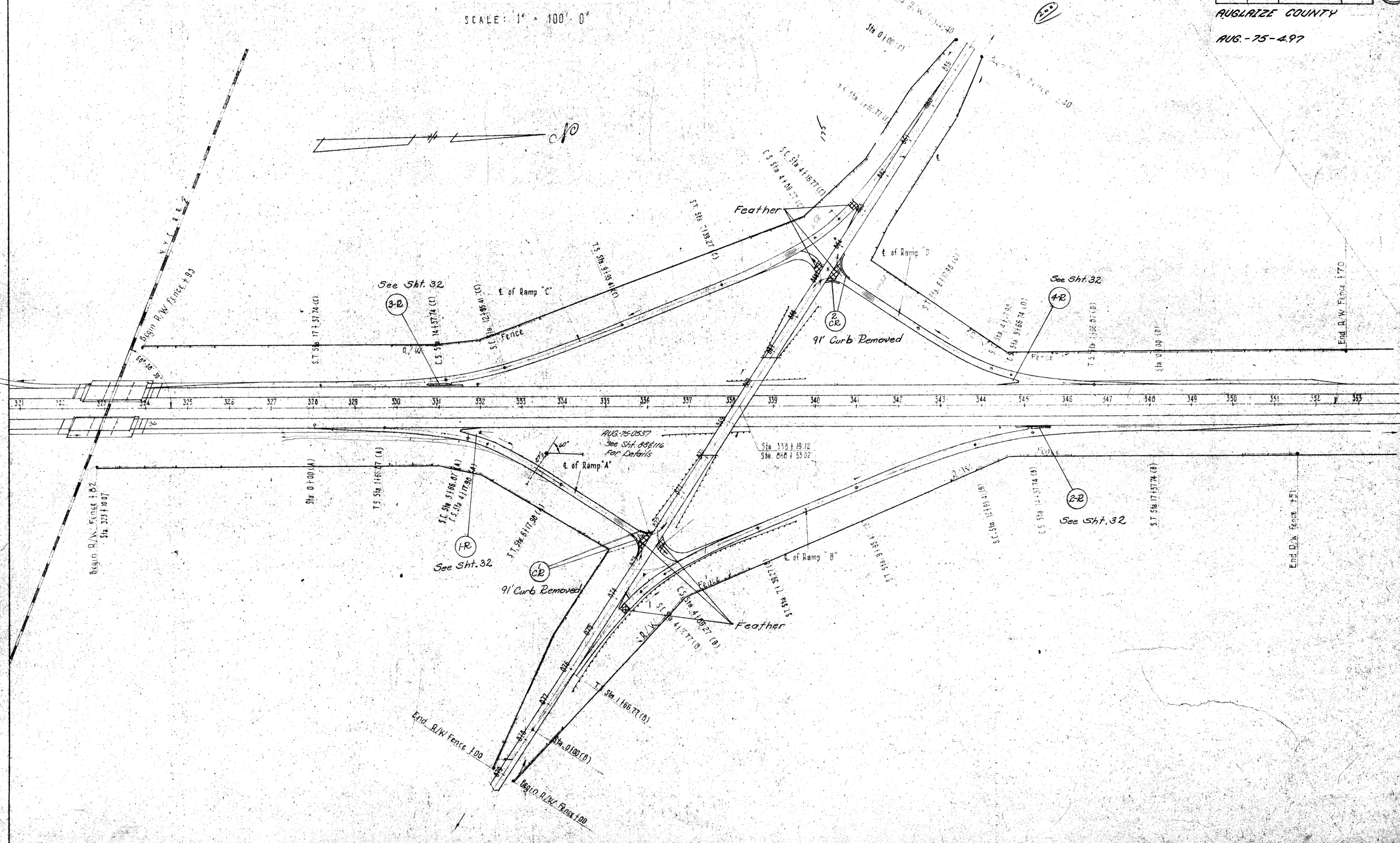
I.R.-75 & WAPAK-FISHER ROAD (C.R.-33 A) INTERCHANGE

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

110
191

AUGLAIZE COUNTY

AUG.-75-4.97



IR-75 & WAPAK-FISHER ROAD (C.R.-33A) INTERCHANGE

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	CFT	10-70	RLT	10-70				
TEMPLATE	RR	9-72						
DITCHES	RR	9-72						
AREAS	RR	9-72	JEF	8-72				
VOLUMES	RR	9-72	JEF	8-72				
SEEDING	RR	9-72	JEF	8-72				

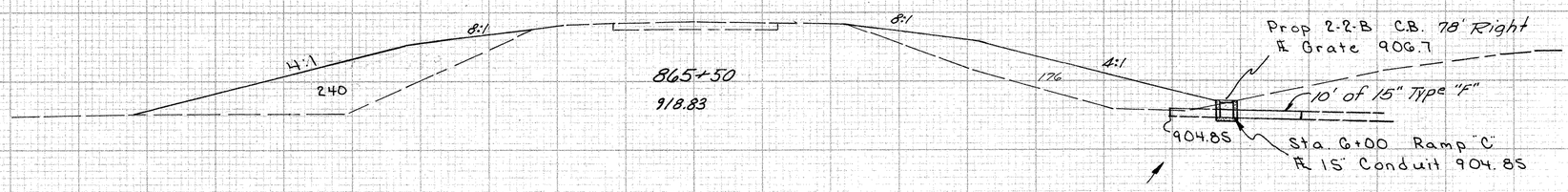
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

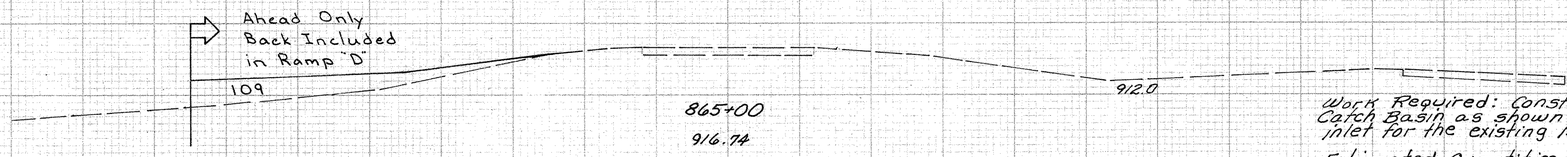
111/191

AUGLAIZE COUNTY

AUG.-75-4.97

Work Required: Regrade as shown from 864+85 Ahead to Bridge to allow Standard Guard Rail Flares to be constructed Right and Left and to eliminate some Guard Rail (Ref. 54-G, 55-G, and 56G on sheet 2)



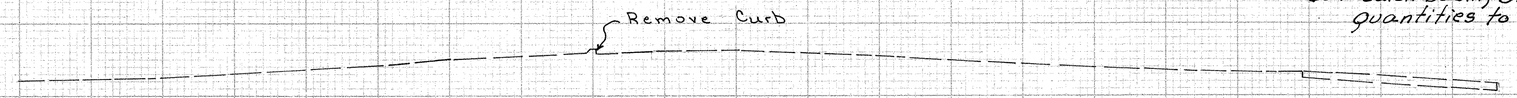


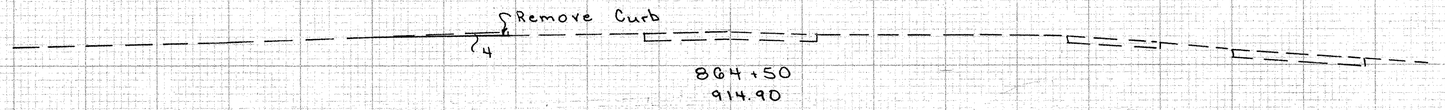
Work Required: Construct a Std. 2-2-B Catch Basin as shown to provide the inlet for the existing 15" Structure.

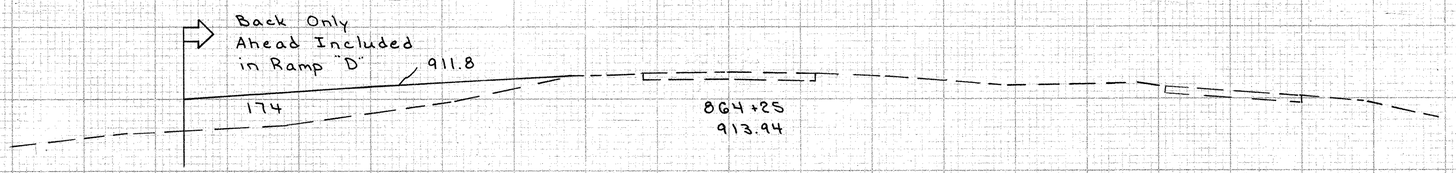
Estimated Quantities

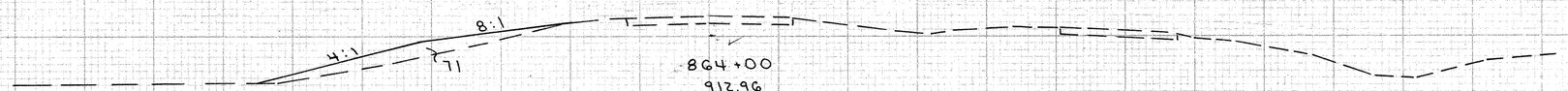
202	Portions of Structures Removed	Lump
603	15" Conduit, Type "F"	10 Lin. Ft.
604	Catch Basin, Std. 2-2-B	1 Each

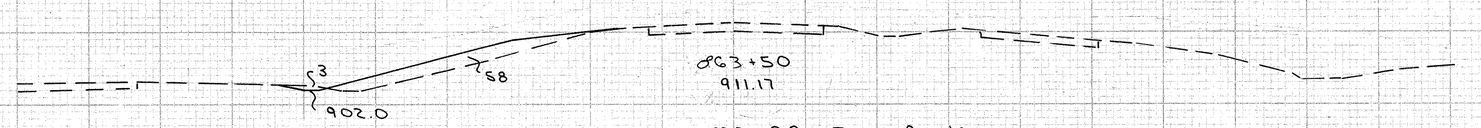
Quantities to sheet 35











	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
120	0	41		
472			0	48
50	0	10		
42			0	30
0	0	0		
43			3	0
22	4	0		
106			4	81
54	0	17		
142		4	0	114
48	0	7		
275		1	3	120
51	3	5		
142	8		3	53
0	0	0		
1222			13	884

Total To Sht. # 55

Total To Sht. # 55

X-SECTIONS STA 864+25 TO 865+50 WAPAK FISHER RD. CR. 33 A

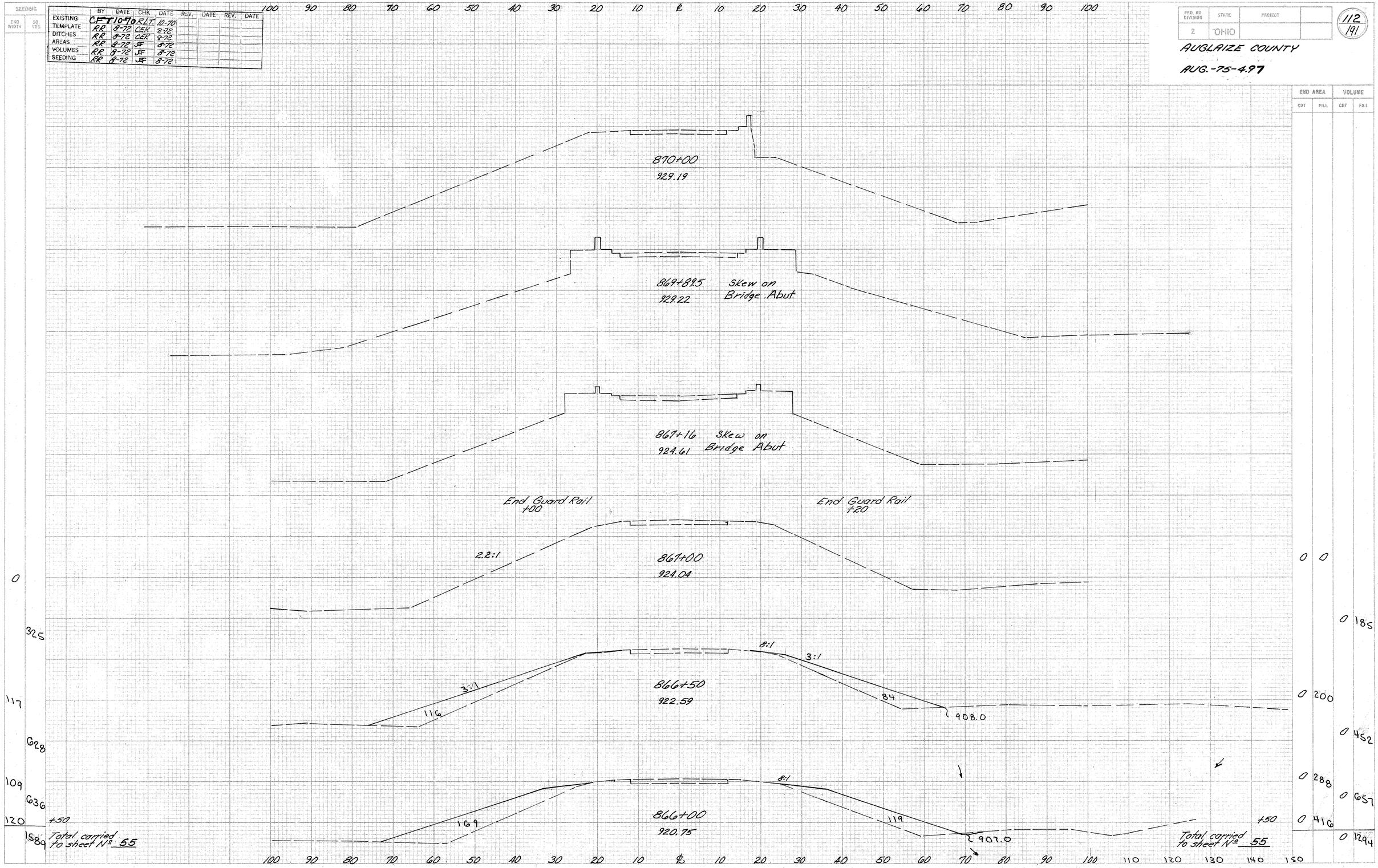
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

112/191

AUGLAIZE COUNTY

AUG.-75-4.97

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	CFT	10-70	RLT	10-70				
TEMPLATE	RR	8-72	CEK	8-72				
DITCHES	RR	8-72	CEK	8-72				
AREAS	RR	8-72	JFF	8-72				
VOLUMES	RR	8-72	JFF	8-72				
SEEDING	RR	8-72	JFF	8-72				



X-SECTIONS STA 866+00 TO 870+00 WAPAK FISHER RD. CR. 33 A.

	BY	DATE	CHK	DATE	CHK	DATE	CHK	DATE
EXISTING	CFT	10-70	RLI	10-70				
TEMPLATE	RR	9-72			RR	10-72	CEK	1-73
DITCHES	RR	9-72	CEK					
AREAS	RR	9-72	JEF	8-72	RR	10-72		
VOLUMES	RR	9-72	JEF	8-72	RR	10-72		
SEEDING	RR	9-72	JF	8-72	RR	10-72		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

113
191

AUGLAIZE COUNTY

AUG.-75-4.97

SEEDING END WIDTH	SEEDING SQ. YDS.		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0			0	0		
	350				0	614
126		Ahead Only				
88		Back Only				
		Ahead Only			0	663
		Back Only			0	563
	508					1009
95		Ahead Only				
115		Back Only				
		Ahead Only			0	527
		Back Only			0	569
	658					920
122					0	425
	339					557
					0	177
0		Sta. 870+00	0	0		164
	1855	Totals carried to sheet N° 55			0	32604

Zero Section 872+22
927.99

872+39.5 Ramp Lt. & Rt.
927.72

Ahead Only
Back Included in C.R. 33A

Back and Ahead

872+00
928.29

924.0

100

123

Match Line to 8700 Section Ramp "A"

440

Note: Sod ditch 9' Wide
Sta. 870+50 to 872+00

150 Sq. Yd. Sodding
Carried to Sheet 55

Included in Ramp "B"

871+50
928.83

920.0

202

8:1

4:1

325

42

Earthwork Ahead + Lt. carried with Ramp "B"

Work Required:
Regrade as shown from the Bridge ahead to allow Standard Guard Rail Flares to be constructed Right and Left. (Ref. 57-G, and 59-G on sheet 2)

Back and Ahead

Back only
Ahead included in Ramp "A"

Included in Ramp "B"

871+00
929.19

913.0

3:1

264

161

870+50
929.41

175

Sta. 870+00

Totals carried to sheet N° 55

X-SECTIONS STA 870+50 TO 872+39.5 WAPAK-FISHER RD. C.R. 33 A

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY.

AUG.-75-4.97

114
191

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	CLM	7-72	JF	7-72				
TEMPLATE	RR	7-72	CEK	8-72				
DITCHES	RR	7-72	CEK	8-72				
AREAS	RR	7-72	JF	8-72				
VOLUMES	RR	7-72	JF	8-72				
SEEDING	RR	7-72	JF	8-72				

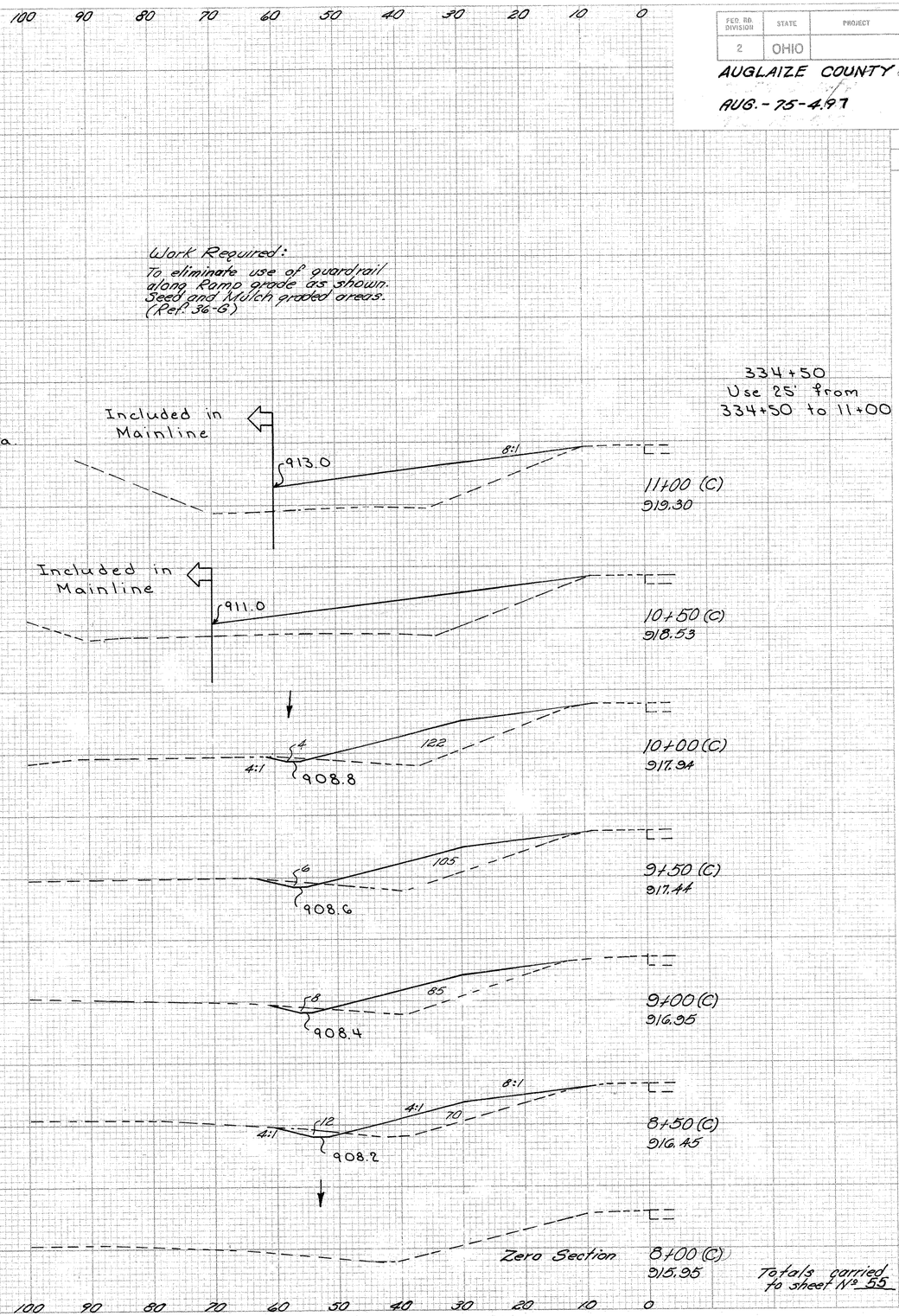
Work Required:
To eliminate use of guardrail along Ramp grade as shown. Seed and Mulch graded areas. (Ref. 36-G)

Note: Sod ditch 9' Wide Sta 10+00 to 11+00
100 Sq. Yd. Sodding Carried to sheet 55

334+50
Use 25' from 334+50 to 11+00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
52	320	0	211	0	398
63	328	4	315		
55	306	4	122	10	210
55	291	6	105	13	176
50	278	8	85	19	144
50	139	12	70	11	65
0		0	0		
1662	Total carried to Sheet No. 55			57	1308

Totals carried to sheet No. 55



X-SECTIONS STA. 8+00 TO 11+00 Ramp "C" IR-75 & WAPAK-FISHER RD. INTERCHANGE

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WM	7-72	JBF	7-72				
TEMPLATE	AR	7-72	CEK	8-72				
DITCHES	AR	7-72	CEK	8-72				
AREAS	AR	7-72	JBF	8-72				
VOLUMES	AR	7-72	JBF	8-72				
SEEDING	AR	7-72	JBF	8-72				

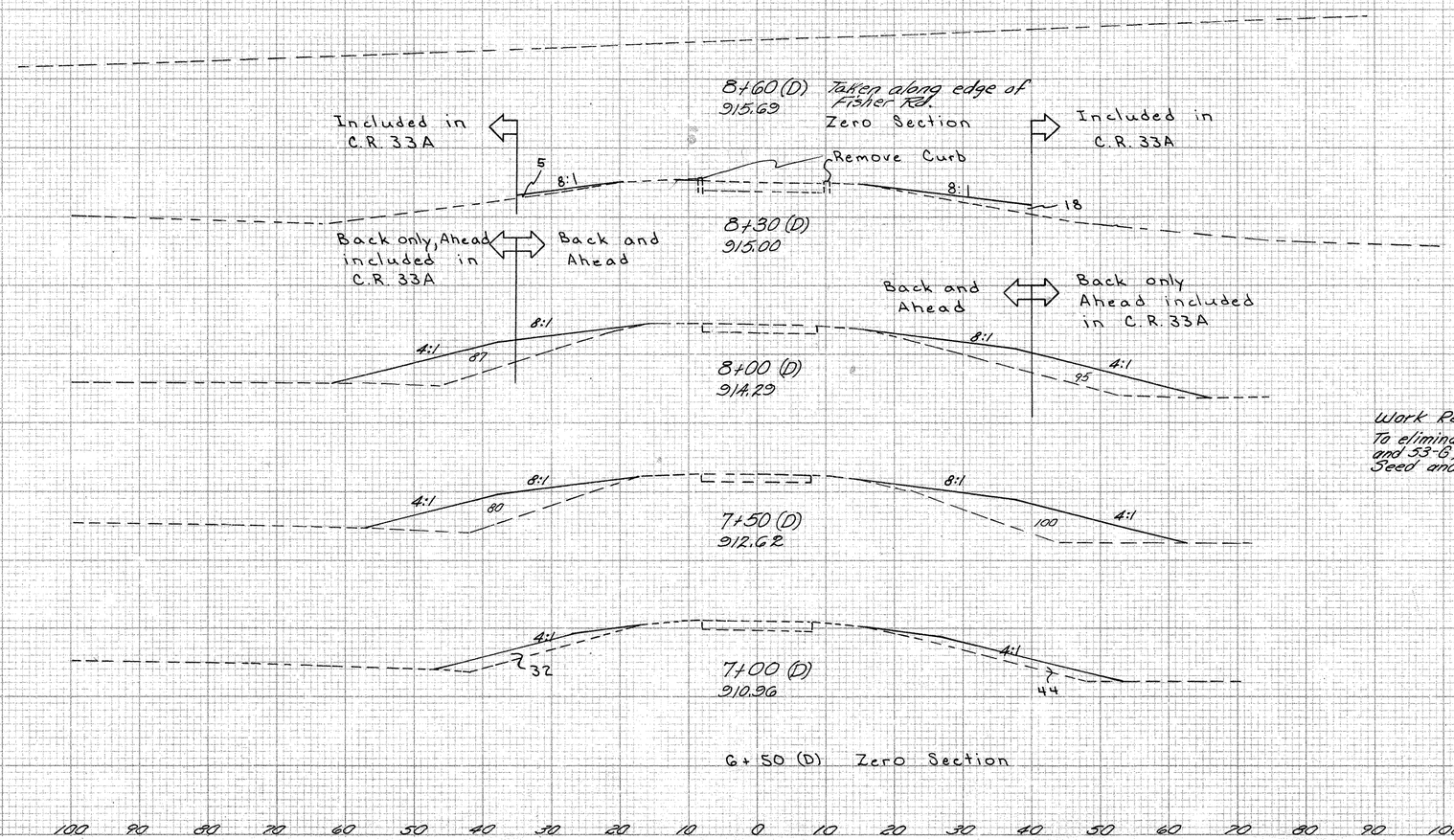
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

115/191

AUGLAIZE COUNTY

AUG.-75-4.97

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0		0	0		
0	66			0	13
40		0	23		
233				0	114
100		0	182		
528				0	335
90		0	180		
456				0	237
74		0	76		
206				0	70
0		0	0		
1480				0	769



Work Required:
To eliminate Guard Rail (Ref. 52-G and 53-G) regrade as shown. Seed and Mulch graded areas.

Total carried to Sheet No. 55

Totals carried to Sheet No. 55

X-SECTIONS STA. 7+00 TO 8+60 Ramp "D" I.R.-75 & WAPAK-FISHER RD. INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

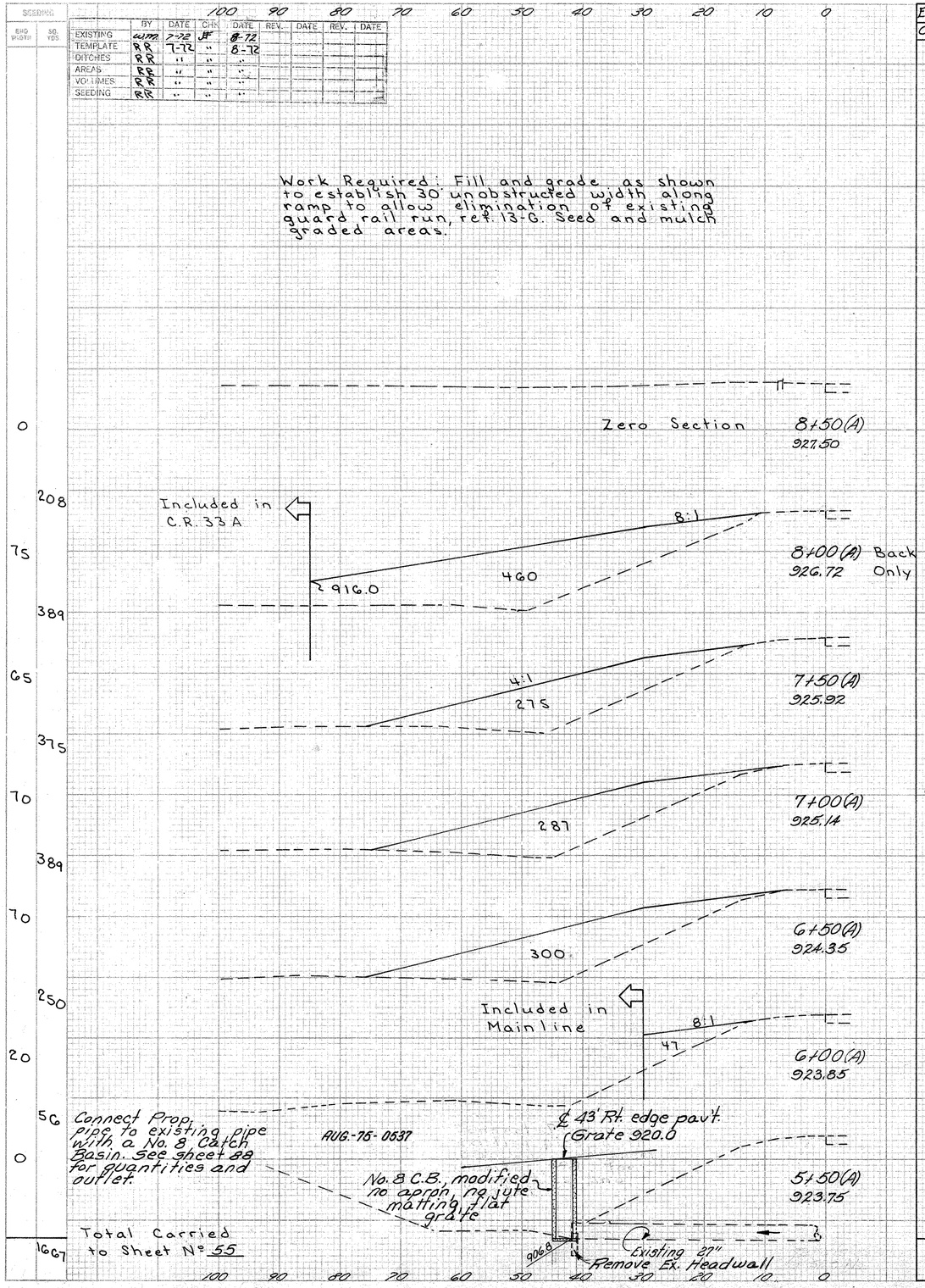
116
191

AUGLAIZE COUNTY

AUG-75-4.97

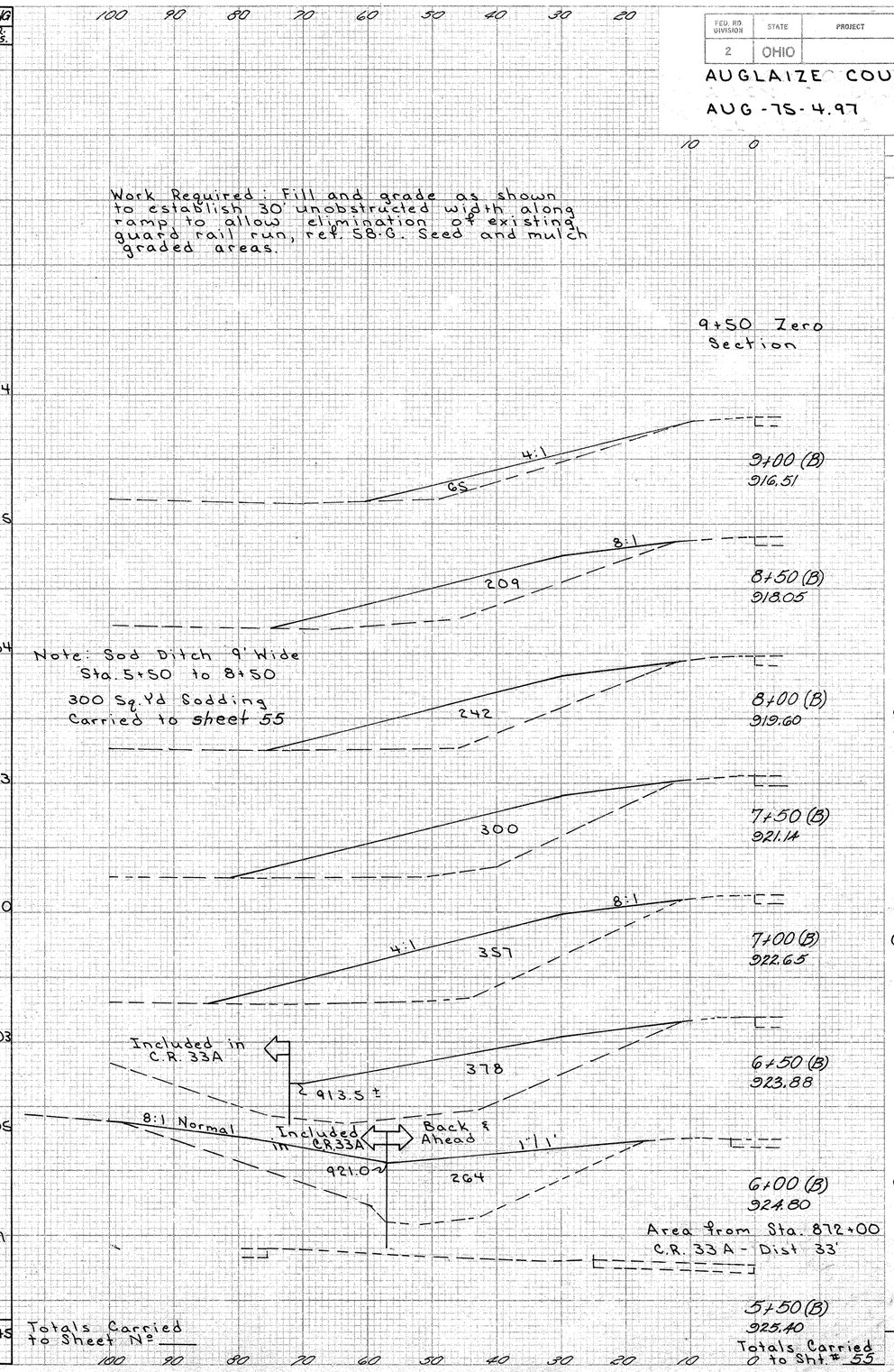
	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WM	7-72	JF	8-72				
TEMPLATE	RR	7-72	"	8-72				
DITCHES	RR	"	"	"				
AREAS	RR	"	"	"				
VOLUMES	RR	"	"	"				
SEEDING	RR	"	"	"				

Work Required: Fill and grade as shown to establish 30' unobstructed width along ramp to allow elimination of existing guard rail run, ref. 13-G. Seed and mulch graded areas.



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL	SEEDING END WIDTH	SEEDING SQ. YDS.
				0	
					144
0	0			52	
		0	426		325
0	460			65	
		0	680		364
0	275			66	
		0	520		383
0	287			72	
		0	544		410
0	300			75	
		0	321		403
0	47			70	
		0	44		305
				40	
0	0				111
				0	
		0	2535		2445

Work Required: Fill and grade as shown to establish 30' unobstructed width along ramp to allow elimination of existing guard rail run, ref. 58-G. Seed and mulch graded areas.



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	0		
		0	60
0	65		
		0	254
0	209		
		0	418
0	242		
		0	502
0	300		
		0	609
0	357		
		0	680
0	378		
		0	687
0	264		
		0	244
0	0		
		0	3454

X-SECTIONS STA. 5+50 to 8+50 Ramp "A" I.R.-75 & WAPAK-FISHER RD. INTERCHANGE

X-SECTIONS STA. 5+50 to 9+00 Ramp "B" I.R.-75 & WAPAK-FISHER RD. INTERCHANGE

I.R.-75 & S.R.-67 INTERCHANGE

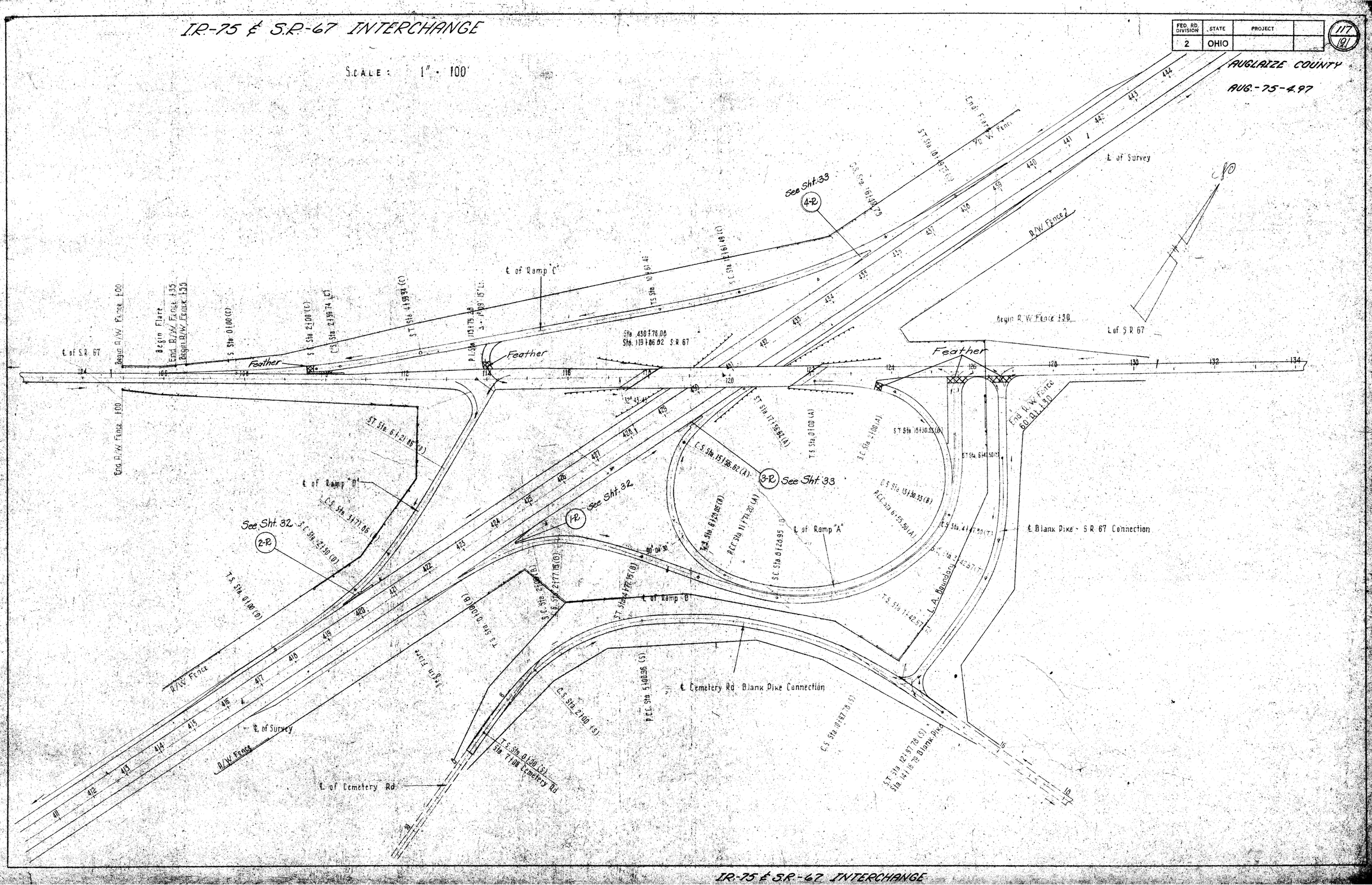
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

117/197

AUGLAIZE COUNTY

AUG.-75-4.97

SCALE: 1" = 100'



IR-75 & SR-67 INTERCHANGE

SEEDING	
END WIDTH	SQ. YDS.
0	
195	
70	
389	
70	
395	
72	
422	
80	
416	
70	
350	
56	
295	
50	
256	
42	
94	
25	
0	35
2847	

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WJB	7-72	JF	7-72				
TEMPLATE	RR	11-72	"	11-"				
DITCHES	RR	" "	JAW	1-73				
AREAS	"	"	"	"				
VOLUMES	"	"	"	"				
SEEDING	"	"	"	"				

70 60 50 40 30 20 10 0

Zero Section +40

118+23
End Guard Rail

Work Required: Fill and grade as shown to allow construction of standard roadside approach guard rail and to eliminate portion of existing guard rail run.

118+00
916.08

3:1
113

117+50
915.50

8:1
162

117+00
914.66

227

116+50
913.84

898.5
339

+27 Begin G.R.

116+00
912.66

899.5
247

115+50
911.52

901.0
150

115+00
910.10

901.5
110

Note: Sod 114+25 to 117+00
275 Sq. Yd. Sodding carried to Sheet No. 55

114+50
908.62

903.5
4:1
50
8:1

114+25
907.83

9

114+00 Zero Section
Totals to Sheet No. 55

Total to Sht. 55

100 90 80 70 60 50 40 30 20 10 0

X-SECTIONS STA. 114+25 to 118+00 (LEFT) S.R.-67

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL	SEEDING END WIDTH	SEEDING SQ. YDS.
0	0				
		0	84		
0	113			0	
		0	255	17	
				15	
0	162				
		0	360	132	
0	227			64	
		0	524	386	
0	339			75	
		0	543	469	
0	247			94	
		0	368	536	
0	150			100	
		0	240	558	
0	110			101	
		0	148	544	
0	50			95	
		0	27	166	
0	9				
		0	4	25	7
0	0			0	28 15
		0	2553		

0 10 20 30 40 50 60 70 80 90 100

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

118
191

AUGLAIZE COUNTY

AUG-75-4.97

117+50 Zero Section

+43 End Guard Rail

117+30
915.19

5

117+00
914.66

2.5:1
41

116+50
913.84

8:1
219

116+00
912.66

3.4:1
411
21
892.0

+71 Guard Rail Begins

115+50
911.52

3.8:1
370
36
892.25

115+00
910.10

4:1
290
61
892.5

114+50
908.62

4.6:1
201
31
893.0

114+25
907.83

8:1
4:1

+20 Zero Section

Total To Sht. 55

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	0		
		0	3
0	5		
		0	26
0	41		
		0	240
0	219		
		20	583
21	411		
		53	723
36	370		
		90	611
61	290		
		85	454
31	201		
		7	96
0	7		
		0	1
0	0		
		255	2737

X-SECTIONS STA. 114+25 to 117+30 (RIGHT) S.R.-67

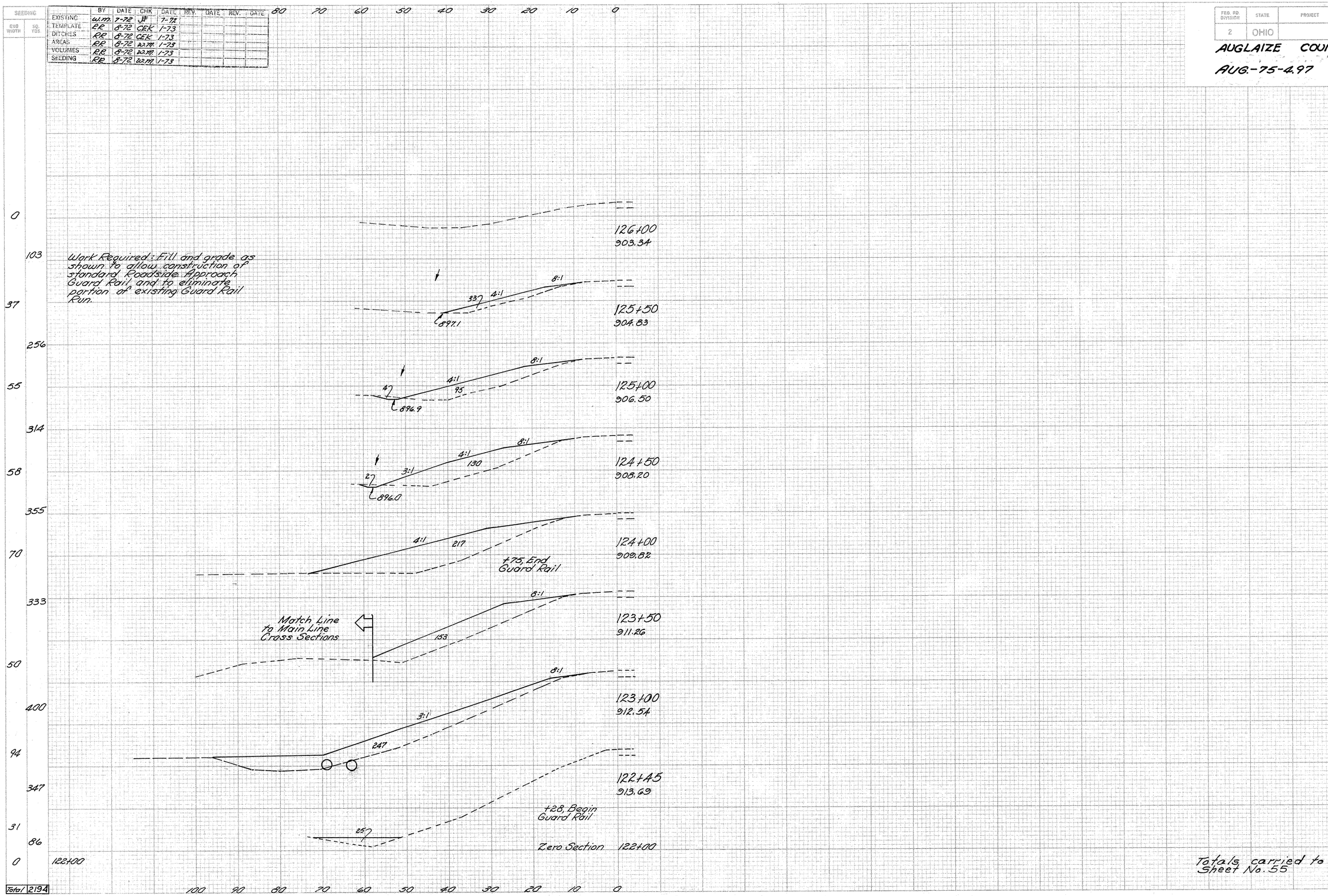
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

119
191

AUGLAIZE COUNTY

AUG.-75-4.97

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	7-72	JF	7-72				
TEMPLATE	RR	8-72	CEK	1-73				
DITCHES	RR	8-72	CEK	1-73				
AREAS	RR	8-72	W.M.	1-73				
VOLUMES	RR	8-72	W.M.	1-73				
SEEDING	RR	8-72	W.M.	1-73				



SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0		0	0		
	103			0	31
37		0	33		
	256			4	119
55		4	95		
	314			6	209
58		2	130		
	355			2	322
70		0	217		
	333			0	343
50		0	153		
	400			0	371
94		0	247		
	347			0	252
31		0	25		
	86			0	23
0		0	0		
Total	2194	Total		12	1670

Totals carried to Sheet No. 55

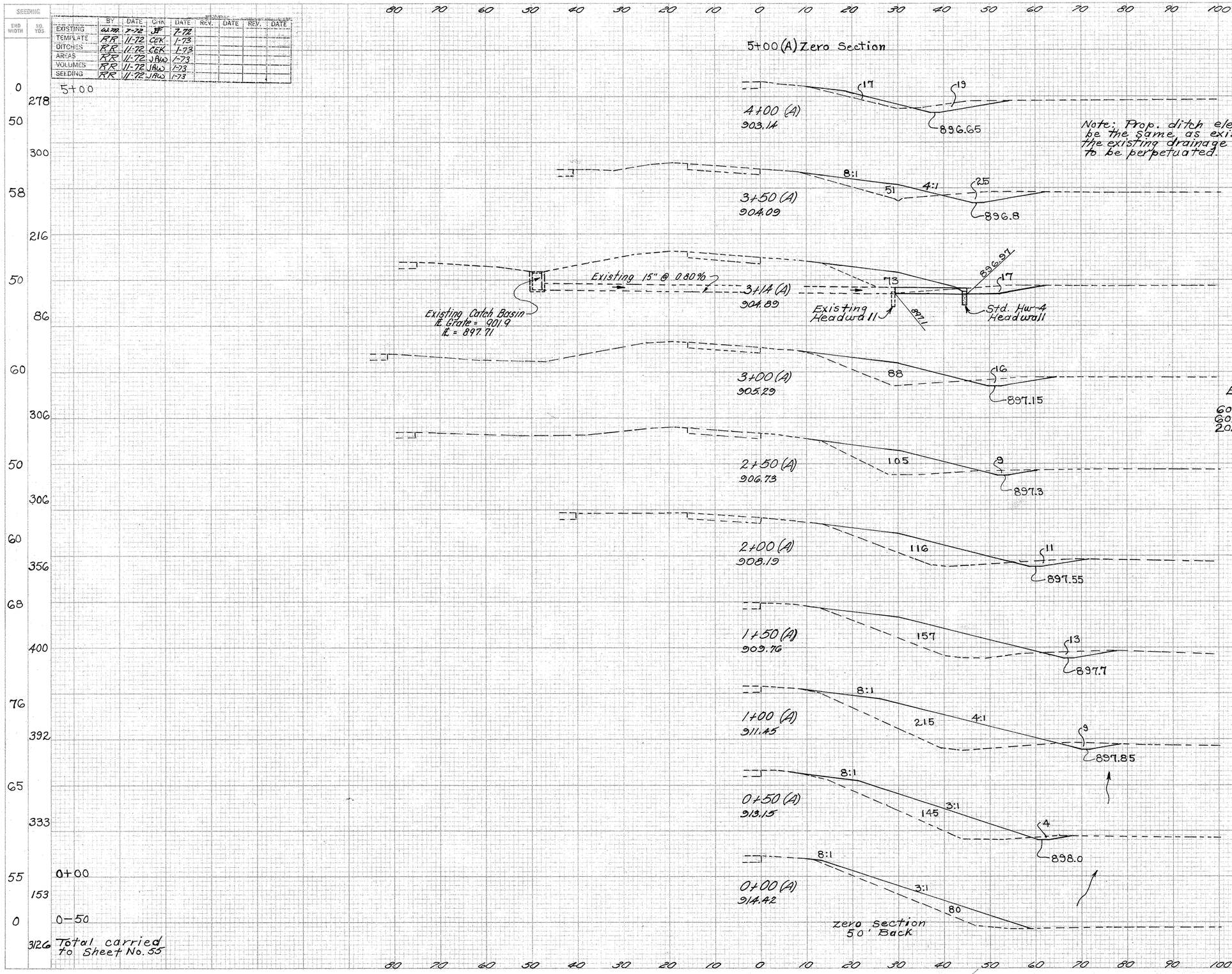
X-SECTIONS STA. 122+45 TO 126+00 (LEFT) S.R.-67

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

120
191

AUGLAIZE COUNTY
AUG.-75-4.97

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	7-72	JF	7-72				
TEMPLATE	RR	11-72	CEK	1-73				
DITCHES	RR	11-72	CEK	1-73				
AREAS	RR	11-72	JAW	1-73				
VOLUMES	RR	11-72	JAW	1-73				
SEEDING	RR	11-72	JAW	1-73				



Note: Prop. ditch elevations to be the same as existing and the existing drainage pattern is to be perpetuated.

Work Required: Remove the existing headwall from the structure, extend the length 16 feet and construct a new headwall as shown.

Estimated Quantities:

603	15" Conduit, Type 'A'	16 Lin. Ft.
602	Concrete Masonry	0.25 Cu. yds.
202	Portions of Structures Removed	Lump

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
5+00	0	0	35	31
	19	17	41	63
	25	51		
			28	83
	17	73		
			9	42
	16	88		
			23	272
	9	105		
			19	205
	11	116		
			22	253
	13	157		
			21	345
	9	215		
			12	334
	4	145		
			4	208
0+00	0	80		
			0	74
0-50	0	0		
Total carried to Sheet No. 55			214	1910

X-SECTIONS STA. 0+00 TO 4+00 Ramp "A" I.R.-75 & S.R.-67 INTERCHANGE

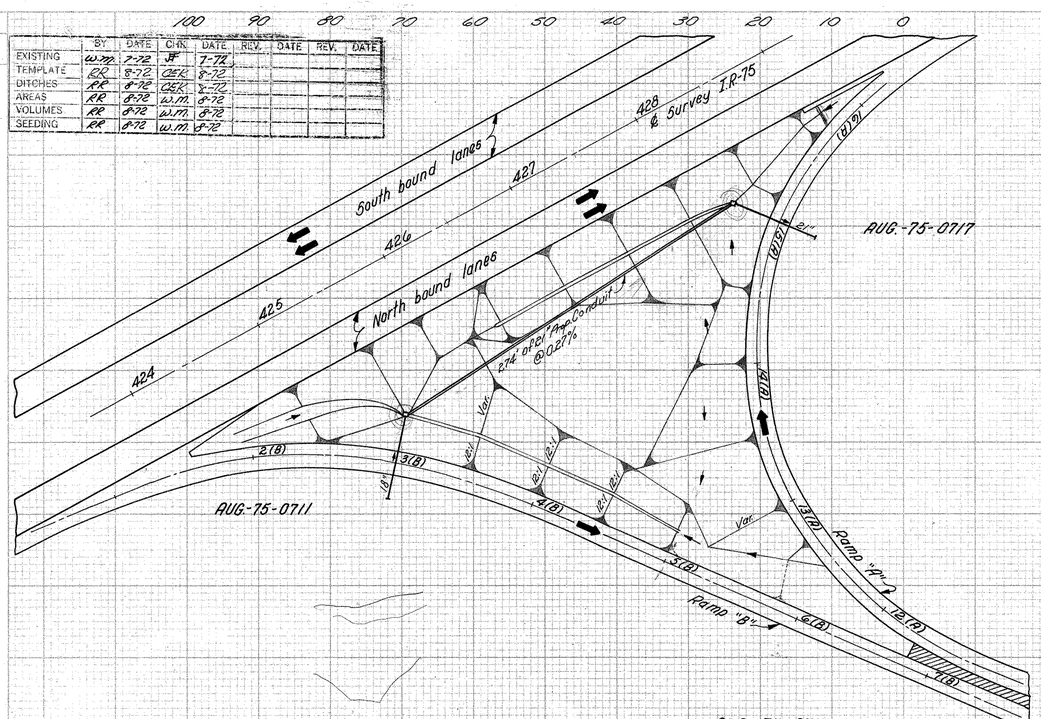
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

121/191

AUGLAIZE COUNTY

AUG-75-4.97

	BY	DATE	CHK.	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	7-72	JF	7-72				
TEMPLATE	RR	8-72	CEK	8-72				
DITCHES	RR	8-72	CEK	8-72				
AREAS	RR	8-72	W.M.	8-72				
VOLUMES	RR	8-72	W.M.	8-72				
SEEDING	RR	8-72	W.M.	8-72				



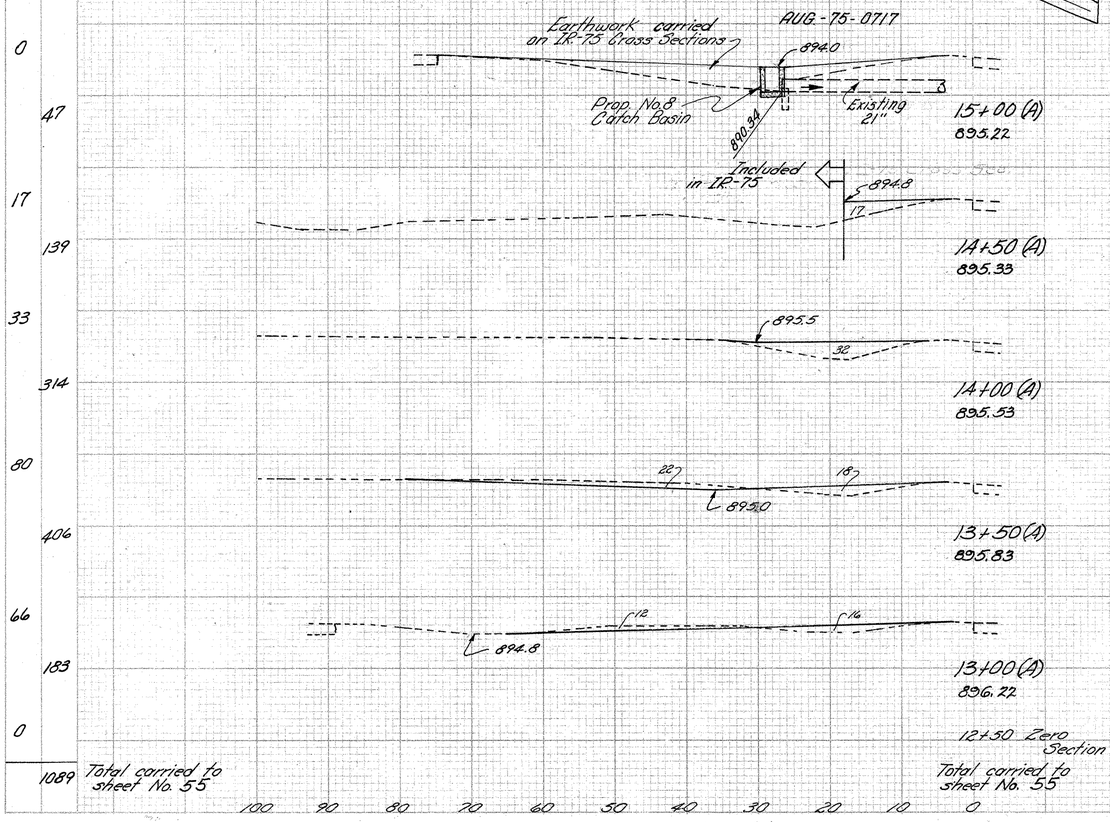
Work Required: Remove outlet headwall from structure AUG-75-0711 and inlet headwall from structure AUG-75-0717. Construct Mod. No. 8 Catch Basins at the outlet of AUG-75-0711 and at the inlet of AUG-75-0717 as shown. Connect the two proposed catch basins with 21" conduit as shown. Regrade area as indicated here and on I-75 Cross Sections. Seed and mulch the regraded areas not otherwise protected.

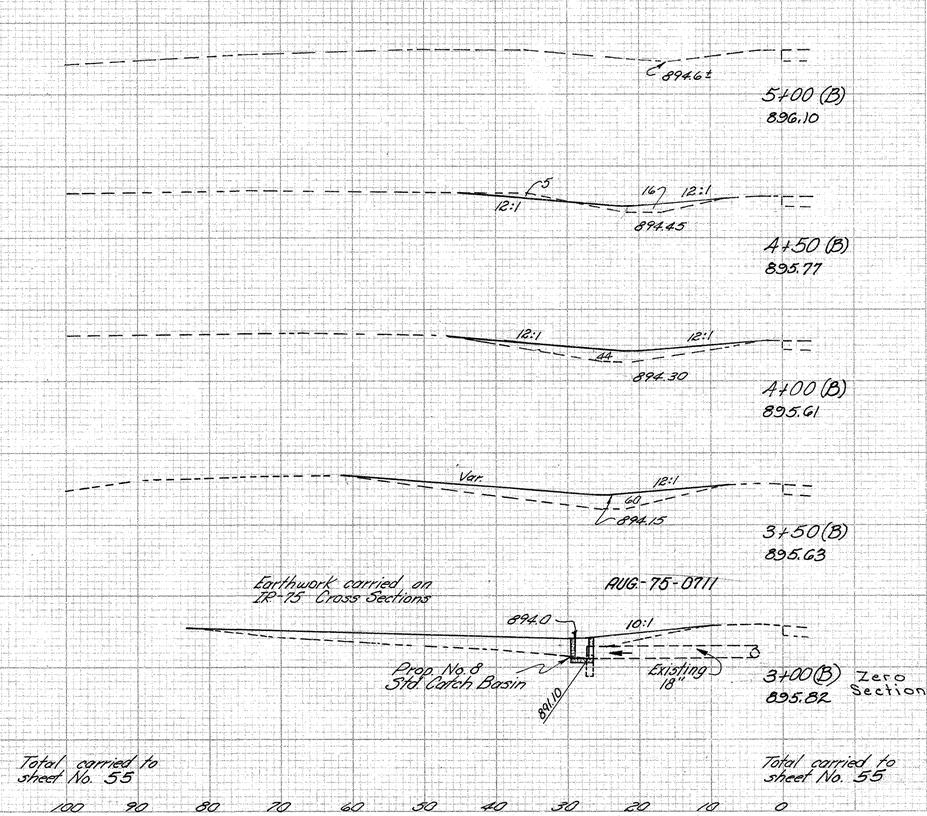
~ESTIMATED QUANTITIES~

604	Catch Basin Mod. No. 8*	2 Each
603	21" Conduit Type "C"	274 Lin. Ft.
202	Portions of structures removed	Lump

Quantities carried to sheet # 35

* Catch Basin is modified by elimination of jute matting and conc. aprons.





END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	0		
		5	15
5	16		
		5	56
0	44		
		0	97
0	60		
		0	56
0	0		
		10	224

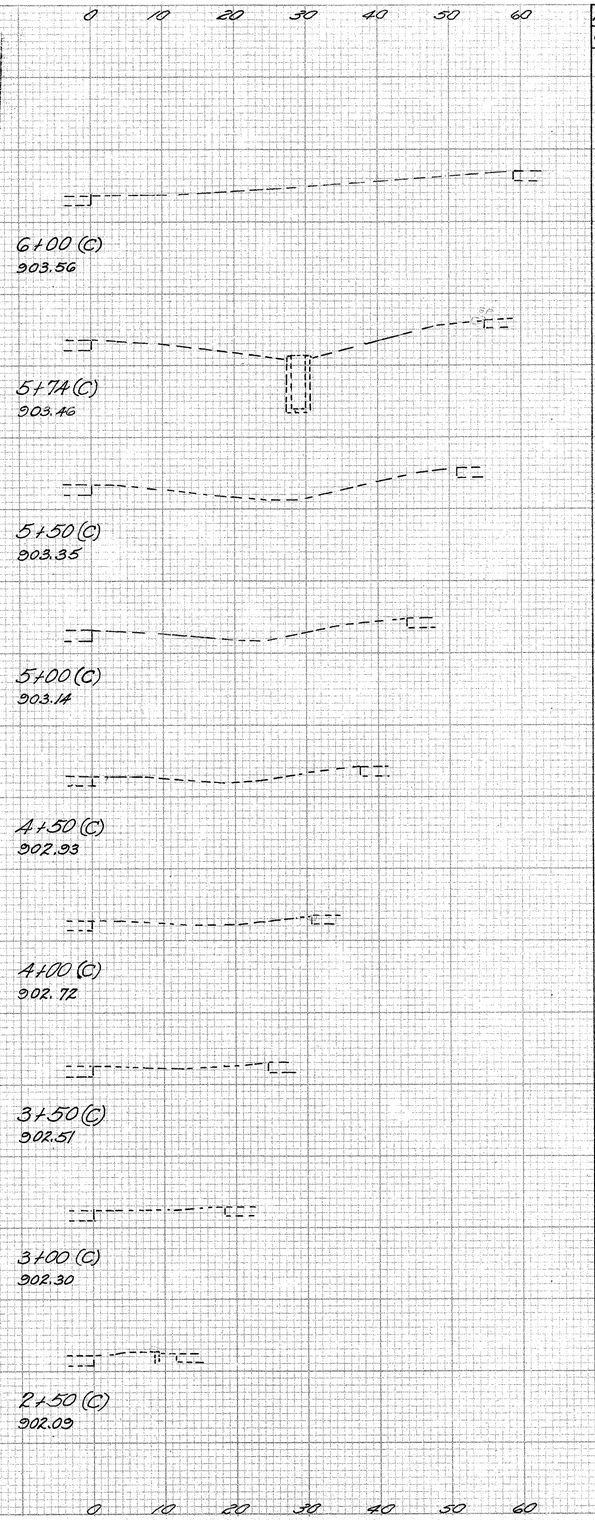
X-SECTIONS STA. 13+00 TO 15+00 Ramp "A" I.R.-75 & S.R.-67 INTERCHANGE

X-SECTIONS STA. 3+00 TO 5+00 Ramp "B" I.R.-75 & S.R.-67 INTERCHANGE

SEEDING

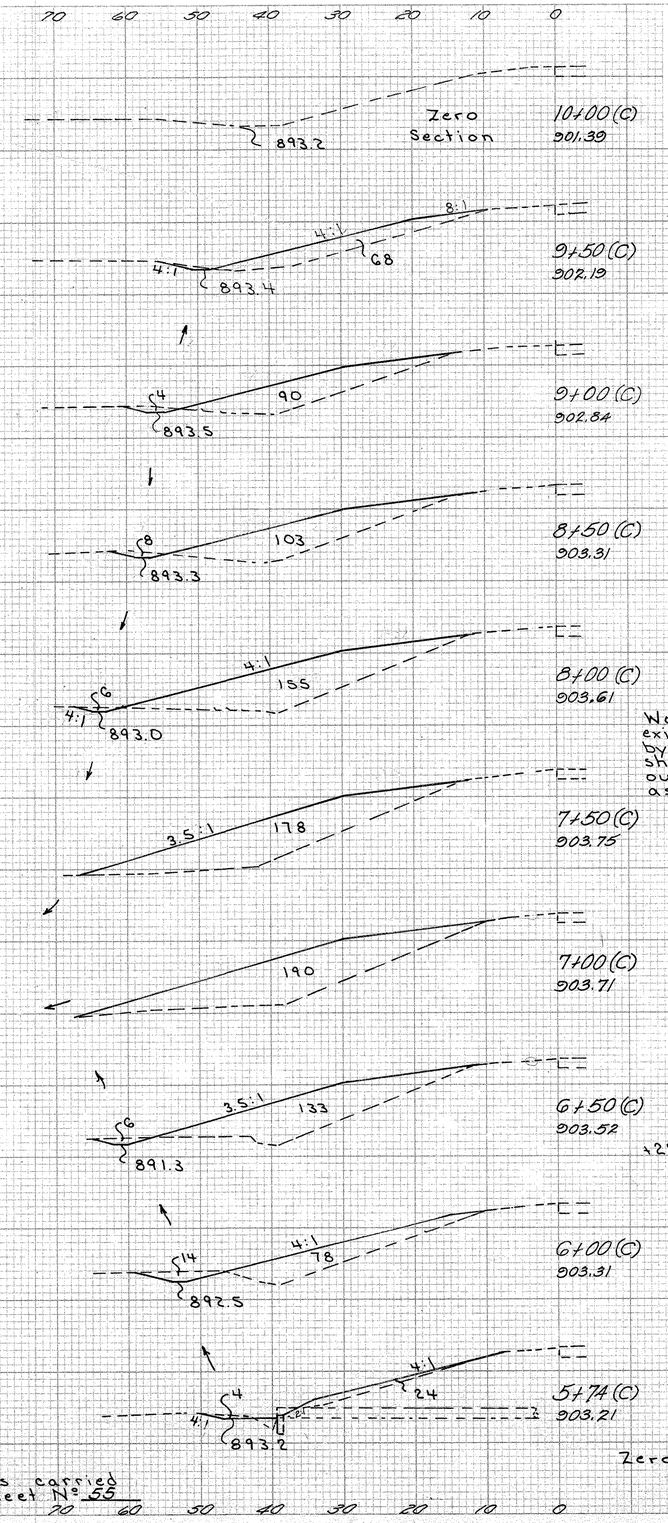
END WIDTH	SQ. YDS.

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WMM	7-72	JEF	7-72				
TEMPLATE	RR	9-72	JEF	9-72				
DITCHES	"	"	JAW	1-73				
AREAS	"	"	"	"				
VOLUMES	"	"	"	"				
SEEDING	"	"	"	"				



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL	SEEDING END WIDTH	SEEDING SQ. YDS.
				0	
					130
				47	
					269
				50	
					292
				55	
					319
				60	
					333
				60	
					333
				60	
					322
				56	
					308
				55	
					277
				45	
					125
				0	
					2708

Totals carried to Sheet No. 55



FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG-75-4.97

122
191

+50 End Existing Guard Rail

Work required: Eliminate existing guard rail run by fill construction as shown. Regrade around outlet of pipe at 5+74 as shown

+25 Begin Existing Guard Rail

Zero Section 5+50

Totals carried to Sheet No. 55

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
10+00	0	0	
		0	63
9+50	0	68	
		4	146
	4	90	
		11	179
	8	103	
		13	239
	6	155	
		6	309
	0	178	
		0	340
	0	190	
		6	299
	6	133	
		19	195
	14	78	
		9	47
	4	24	
		3	22
	0	0	
		71	1839

X-SECTIONS STA. 2+50 TO 6+00 Ramp "C" (RIGHT) & STA. 5+74 TO 10+00 Ramp "C" (LEFT) IR-75 & SR-67 INTERCHANGE

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.T.T.	2-73	JAW	2-73				
TEMPLATE	CEK	2-73	RR	4-73				
DITCHES	CEK	2-73	RR	4-73				
AREAS	W.T.T.	2-73	C.F.T.	4-73				
VOLUMES	W.T.T.	2-73	C.F.T.	4-73				
SEEDING	W.T.T.	2-73	C.F.T.	4-73				

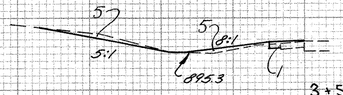
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

123
191

AUGLAIZE COUNTY

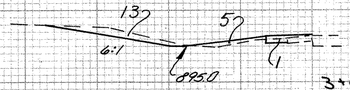
AUG.-75-4.97

SEEDING END WIDTH	SEEDING SQ. YDS	End Area Cut	End Area Fill	Volume Cut	Volume Fill	Seeding	
0		0	0				
	124			7	5		
37		6	5				
	203			19	10		
36		14	5				
	217			35	10		
42		24	6				
	250			43	17		
48		22	12				
	278			50	22		
52		32	12				
	292			65	27		
53		38	17				
	303			95	38		
56		64	24				
	306			135	41		
54		81	20				
	450			176	59		
54		46	22				
2423 Totals		625	229	Totals to Sheet 55			



4+10 (D) Zero Section

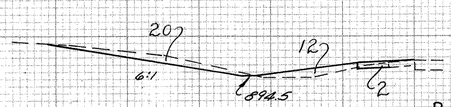
3+50 (D)
896.74



3+00 (D)
896.43



2+50 (D)
896.36



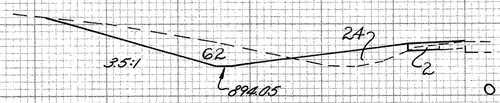
2+00 (D)
896.49



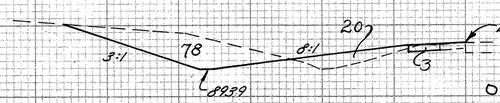
1+50 (D)
896.76



1+00 (D)
897.03



0+50 (D)
897.31



0+00 (D) = 417+75
897.39

417+00

417+00

8+00 (D)
901.87

5+50 (D)
900.75

5+00 (D)
899.59

4+50 (D)
898.44

4+10 (D) End berm widening
897.34

X-SECTIONS STA. 0+00 TO 6+00 Ramp(D) I.R.-75 & S.R.-67 INTERCHANGE

IR-75 & NATIONAL ROAD INTERCHANGE

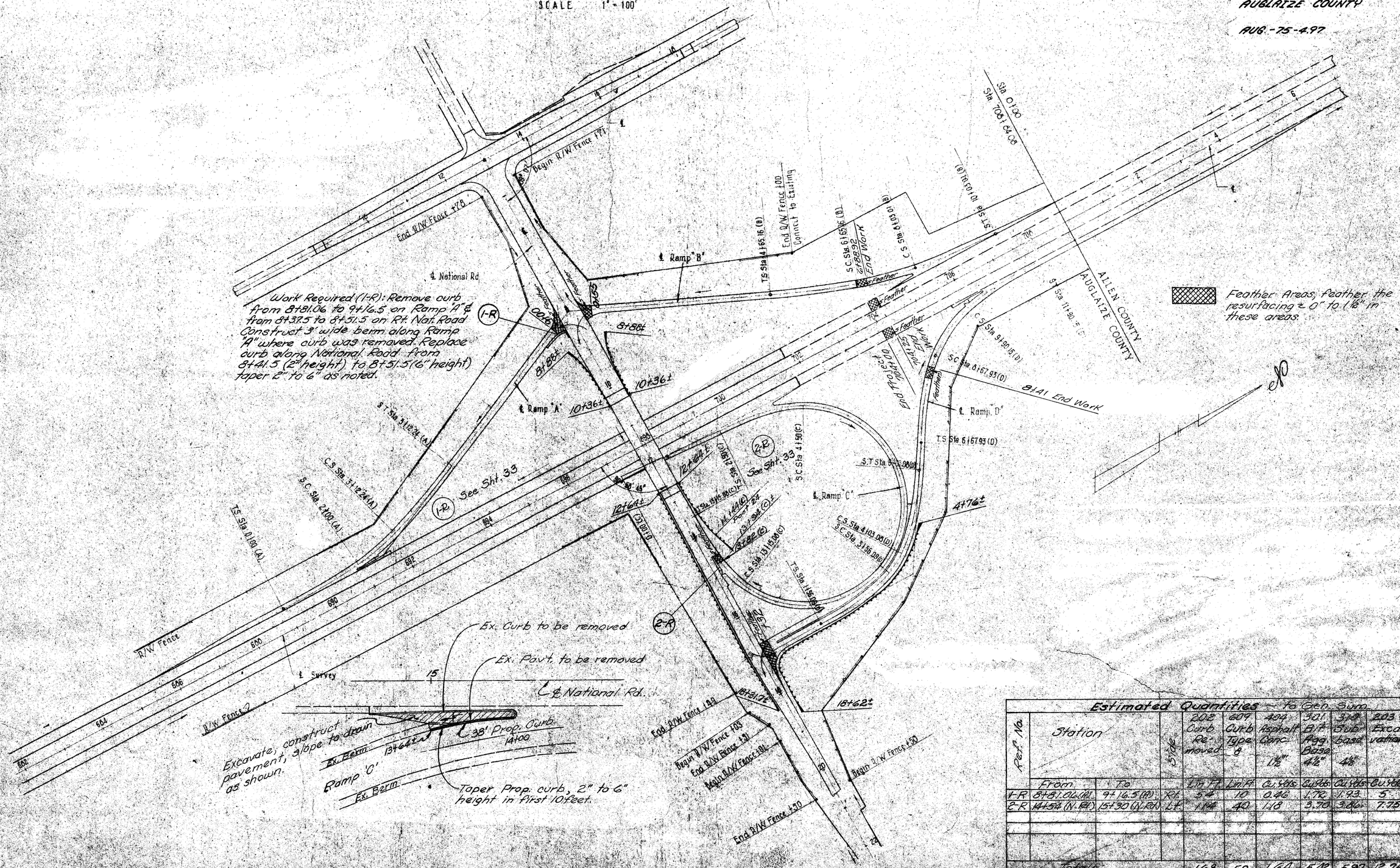
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

124/191

AUGLAIZE COUNTY

AUG.-75-4.97

SCALE 1" = 100'



Ref. No.	Station From	Station To	Side	202 Curb Removed Lin. Ft.	609 Curb Type 8 Lin. Ft.	404 Asphalt Conc. 1½" Cu. Yds.	301 Bit. Agg. Base 4½" Cu. Yds.	310 Sub-base 4½" Cu. Yds.	203 Excavation Cu. Yds.	202 Pav't. Removed Sq. Yds.
1-R	8+81.06 (A)	9+16.5 (A)	Rt.	54	10	0.46	1.72	1.93	5	—
2-R	14+54 (N. Rd.)	15+30 (N. Rd.)	Lt.	114	40	1.18	3.70	3.86	7.75	13
Totals				168	50	1.64	5.42	5.97	12.75	13

IR-75 & NATIONAL ROAD INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

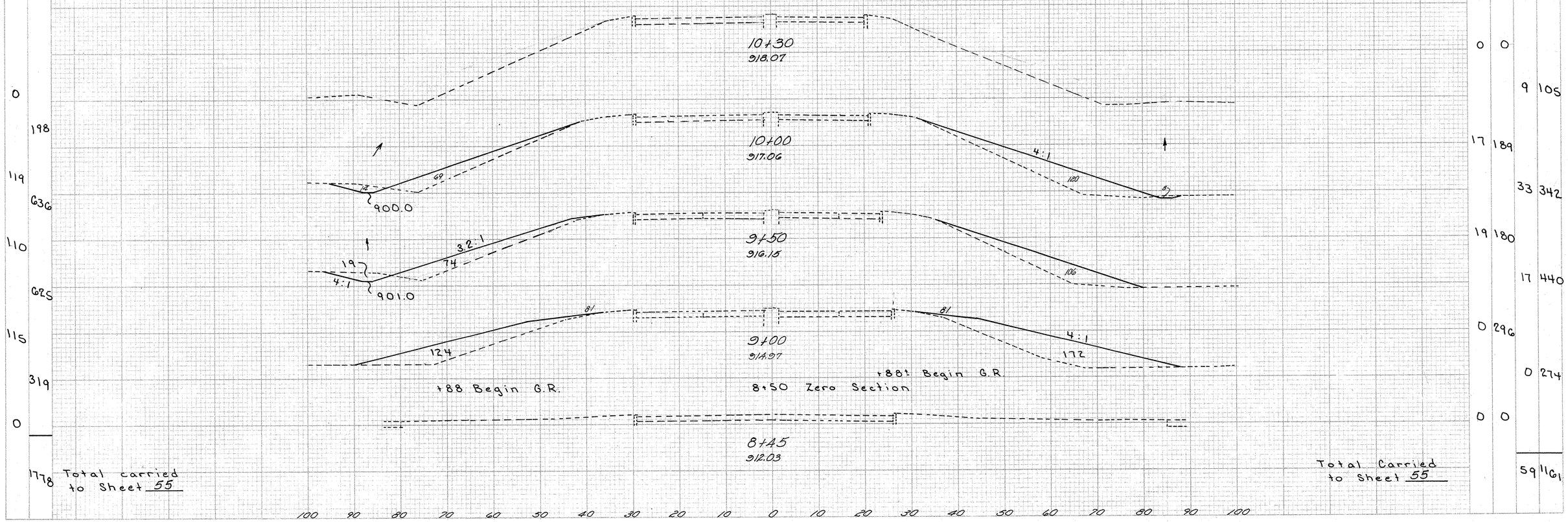
125/191

AUGLAIZE COUNTY

AUG. - 75 - 4.97

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	8-72	JF	8-72				
TEMPLATE	RR	11-72	CEK	11-72				
DITCHES	..	..	..	..				
AREAS	..	..	JAW	1-73				
VOLUMES	..	..	..	..				
SEEDING	..	..	..	..				

WORK REQUIRED: Regrade as shown, Right and Left to allow standard guardrail approach flares to be constructed and less erodable slopes. Seed and mulch all graded areas.



X-SECTIONS STA. 8+45 TO 10+30 NATIONAL ROAD

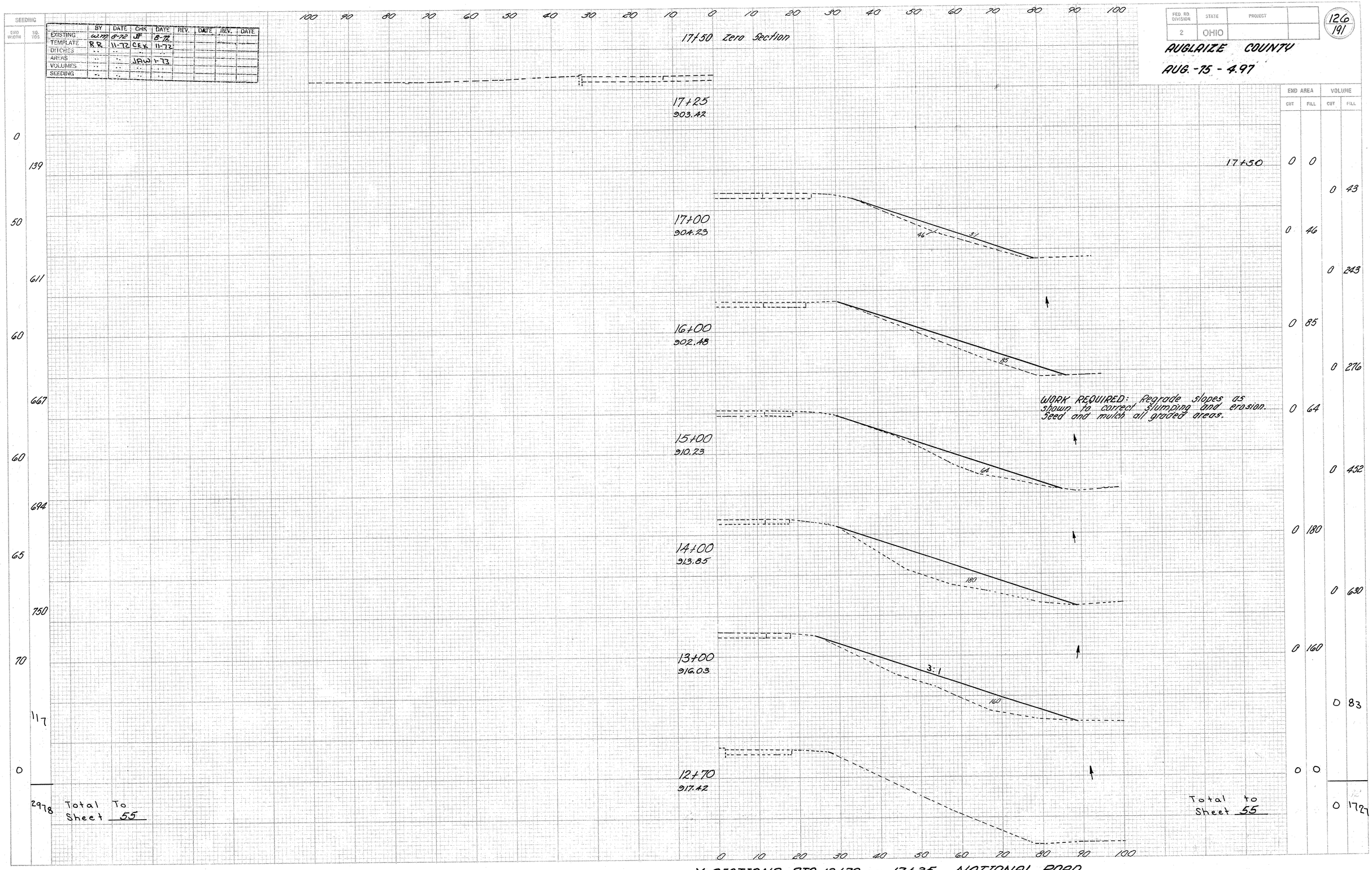
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

126
191

AUGLAIZE COUNTY

AUG.-75 - 4.97

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	8-72	JF	8-72				
TEMPLATE	R.B.	11-72	CEK	11-72				
DITCHES	..	..	..	..				
AREAS	..	..	JAW	1-73				
VOLUMES	..	..	..	..				
SEEDING	..	..	..	..				



X-SECTIONS STA. 12+70 TO 17+25 NATIONAL ROAD

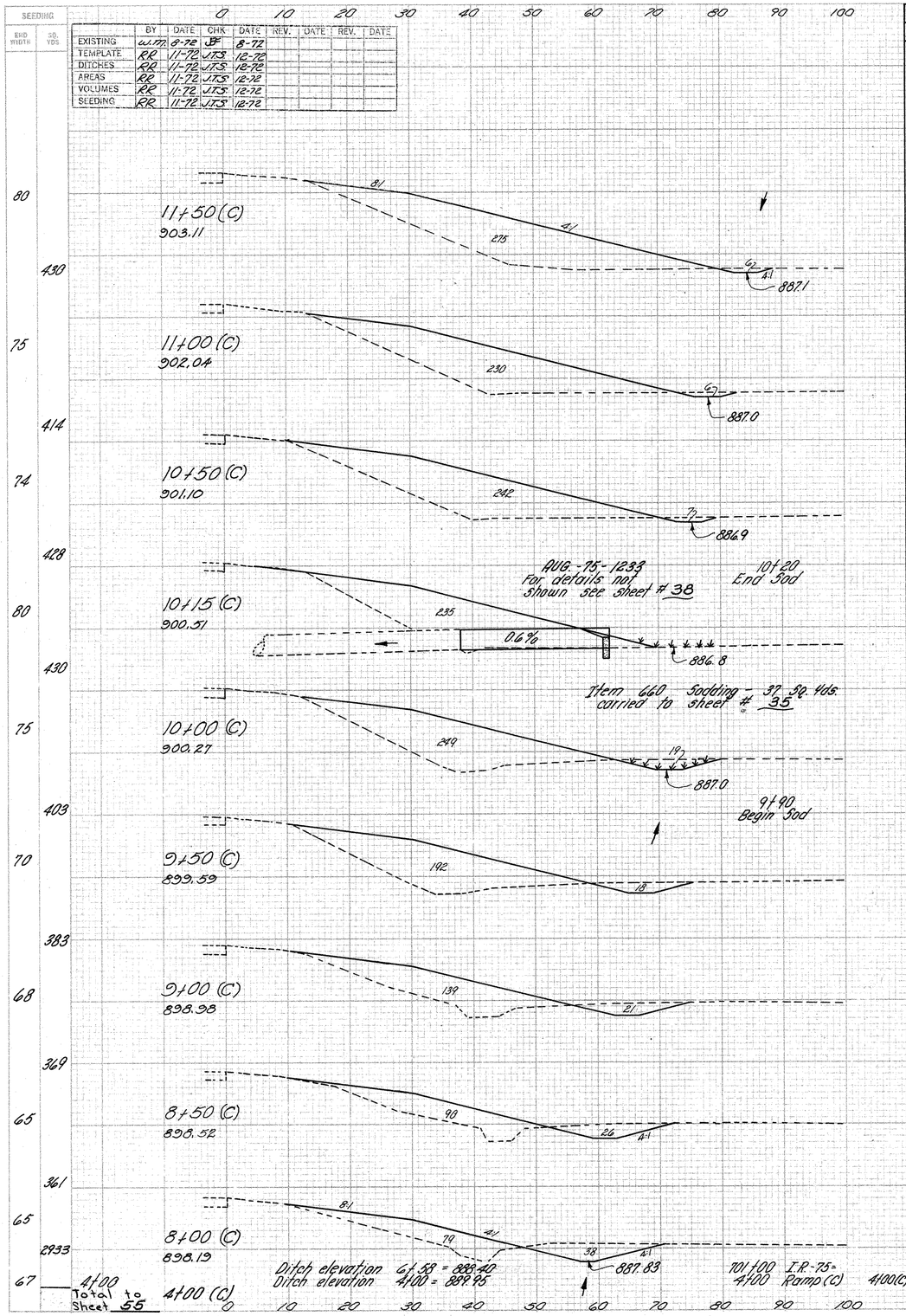
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

127
191

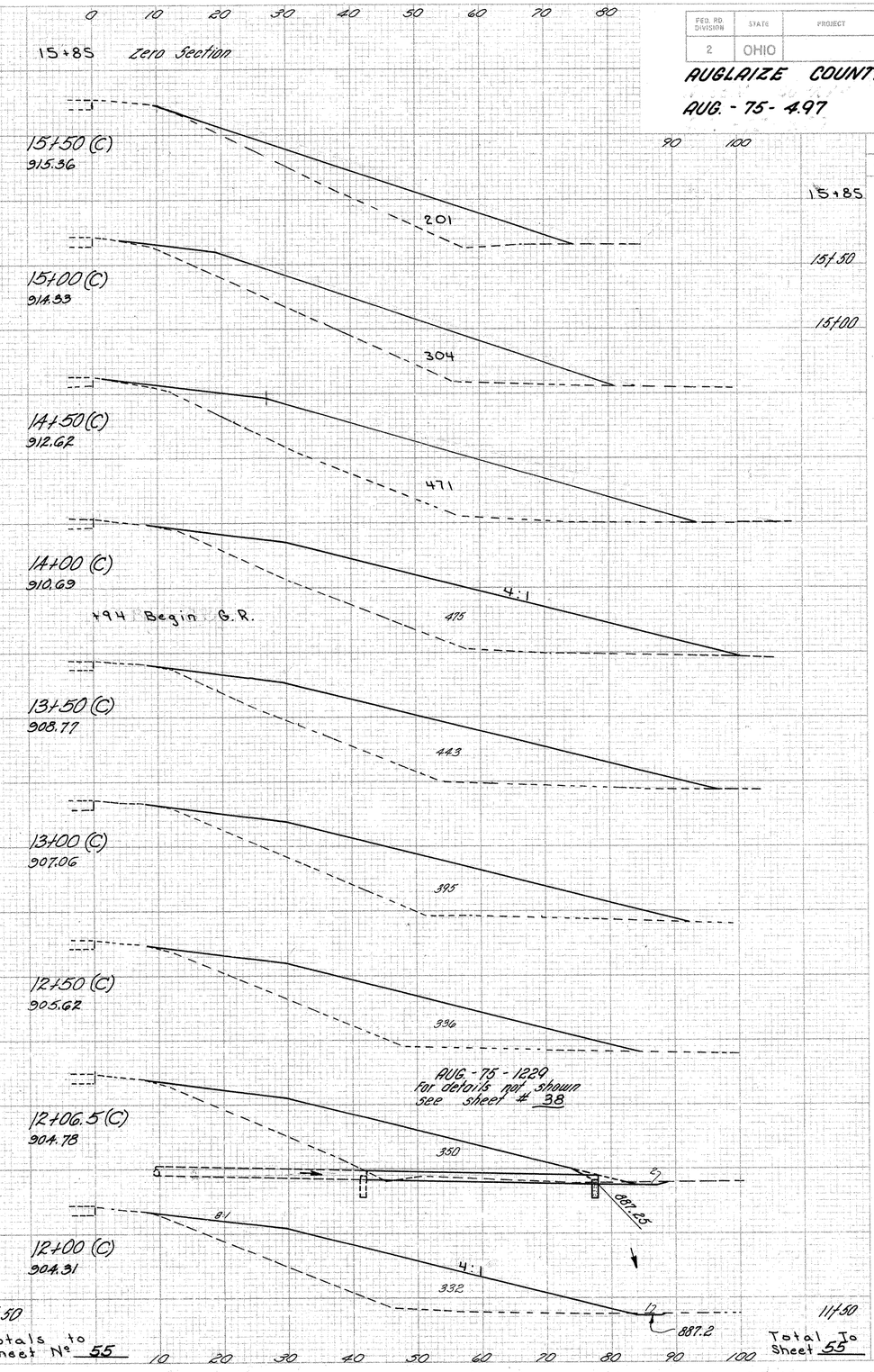
AUGLAIZE COUNTY

AUG. - 75 - 4.97

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	8-72	JF	8-72				
TEMPLATE	RR	11-72	J.T.S.	12-72				
DITCHES	RR	11-72	J.T.S.	12-72				
AREAS	RR	11-72	J.T.S.	12-72				
VOLUMES	RR	11-72	J.T.S.	12-72				
SEEDING	RR	11-72	J.T.S.	12-72				



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL	SEEDING END WIDTH	SEEDING SQ. YDS.
				0	
					208
				75	
6	275				442
		11	468		
				84	
6	230				533
		12	437		
				108	
7	242				564
		7	442		
				95	
0	235				514
		18	448		
				90	
19	249				489
		35	409		
				86	
18	192				461
		36	307		
				80	
21	139				394
		44	212		
				85	
26	90				57
		60	157		
				85	
38	79				458
		556	1016		
4+00 (C) 37	58			80	
					4120



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
15+85	0	0		
			0	130
15+50	0	201		
			0	467
15+00	0	304		
			0	717
	0	471		
			0	876
	0	475		
			0	850
	0	443		
			0	776
	0	395		
			0	677
	0	336		
			2	552
	2	350		
			4	82
	1	332		
			7	562
11+50	6	275		
Total To Sheet 55			13	5689

X-SECTIONS STA. 8+00 TO 15+50 Ramp "C" I.R.-75 & NATIONAL ROAD INTERCHANGE

7+50 Zero Section
Taper to Existing

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WM	12-72	JAW	12-72				
TEMPLATE	JTS	1-73	CEK	3-73				
DITCHES	JTS	1-73	CEK	3-73				
AREAS	JAW	4-73	WM	4-73				
VOLUMES	JAW	4-73	WM	4-73				
SEEDING	JAW	4-73	WM	4-73				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

128
191

AUGLAIZE COUNTY

AUG -75 - 4.97

SEEDING END WIDTH	SEEDING SQ. YDS		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0			0	0		
	286				731	0
103			789	0		
	558				1484	0
98			814	0		
	578				1672	0
110			992	0		
	404				1201	0
117		Ahead Only	1035	0		
74		Back Only	1081	0		
	158				757	0
84			1189	0		
	467				2038	0
84			1012	0		
	469		1036	5	1758	10
85			862	6		
	472				1507	12
85			765	7		
	464				1350	15
82			693	9		
	450				1237	19
80		Ahead Only	643	11		
	4306	Total	Total		13735	56

Earthwork & Seeding totals carried to Sht. 55

X-SECTIONS STA. 3+00 TO 6+50 WEST PARK CAR RAMP

SEEDING		BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
	EXISTING	WTM	12-72	JAW	2-73				
	TEMPLATE	CEK	2-73	RR	3-73				
	DITCHES	CEK	2-73	RR	3-73				
	AREAS	JAW	4-73	WTM	4-73				
	VOLUMES	JAW	4-73	WTM	4-73				
	SEEDING	JAW	4-73	WTM	4-73				

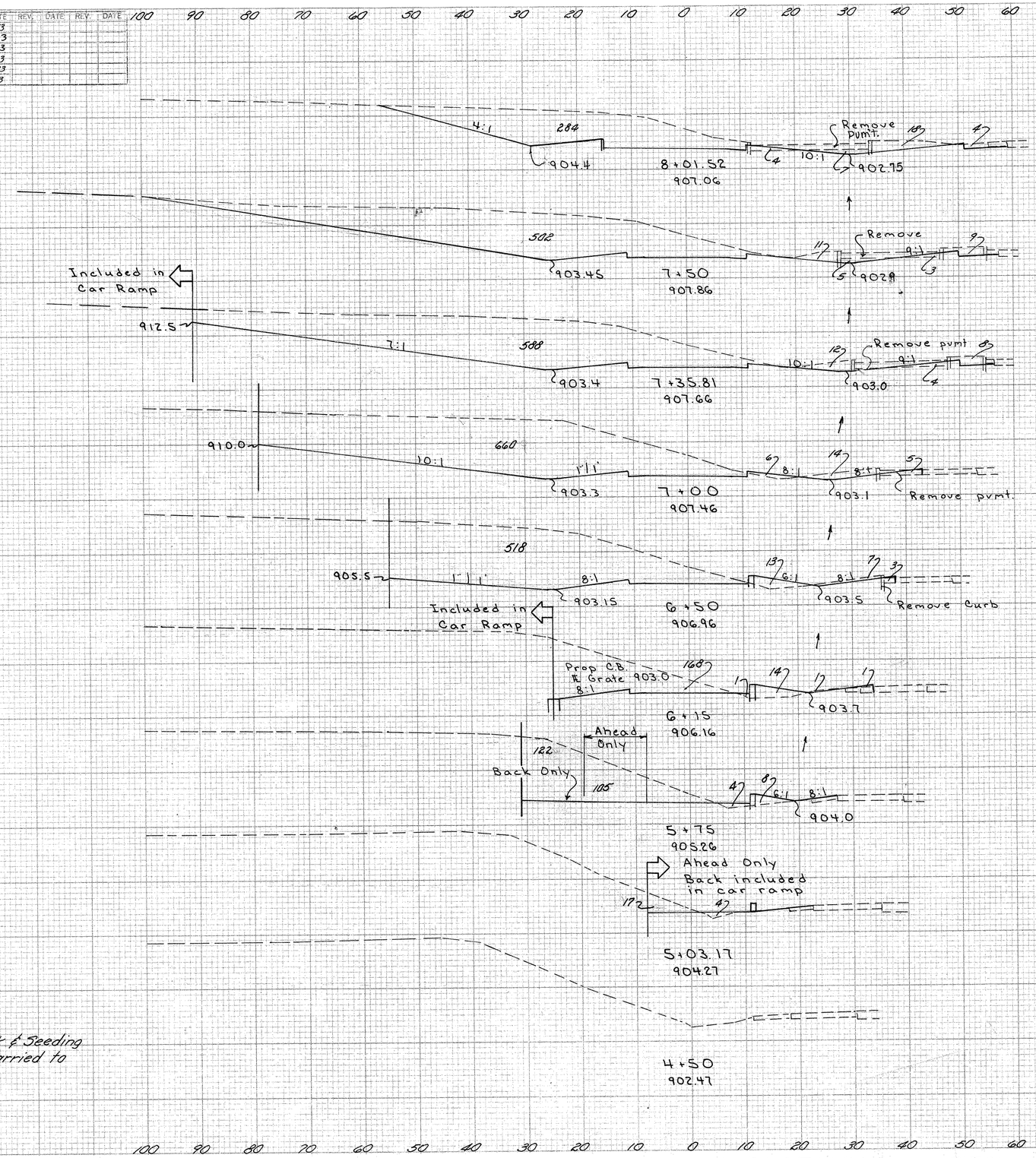
END WIDTH	SQ. YDS.
81	
	609
130	
	194
119	
	438
100	
	469
69	
	200
34	
	109
15	
	60
0	
2079	Total

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG-75-4.97

129
191



Earthwork & Seeding totals carried to Sht. 55

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	313	4		
			809	7
	527	3		
			294	2
	608	4		
			855	10
	674	11		
			1110	25
	525	16		
			450	21
	169	16		
			203	21
Ahead Only	105	12		
Back Only	227	12		
			325	22
Ahead Only	17	4		
Total	4046	108		

X-SECTIONS STA. 4+50 TO 8+01.52 WEST PARK TRUCK RAMP

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY

AUG - 76 - 4.97

130
191

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WM	12-72	JAW	2-73				
TEMPLATE	RR	2-73	C&K	3-73				
DITCHES	RR	2-73	C&K	3-73				
AREAS	JAW	4-73	WM	4-73				
VOLUMES	JAW	4-73	WM	4-73				
SEEDING	JAW	4-73	WM	4-73				

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
		0	0		
0				5	1
16					
12		11	1		
77				21	5
36		29	8		
90				30	6
41					
135		48	8		
40				50	8
88		41	7		
39				36	4
56		56	4		
38				26	1
108		50	7		
95				26	0
70				92	8
142		225	17		
81				179	7
807	Total	313	4		
		Total		465	40

Floor 910.0

10+00
904.64

9+74 Steps Lt.
904.52

9+50
904.37

9+21 Steps Lt.
904.30

9+00
904.28

8+85 Outlet 15" Pipe
20' from c.b.
Fl. El. 901.57

8+70
904.29

8+50
904.26

Remove curb

Remove Pavement

8+36.6
904.17

8+19
904.84

Add for Sections on for Right

Earthwork & Seeding totals carried to Sht. 55

Sta. 8+01.52

0+00 = 8+38.3 92.9' Left

0+00 905.97

0+10 905.77

0+25 905.52

0+40 905.35

0+50

Base Line Face curb 8+38.3

Cons.

20' Maple

Included in Truck Ramp

Included in Truck Ramp

Add for Sections Left

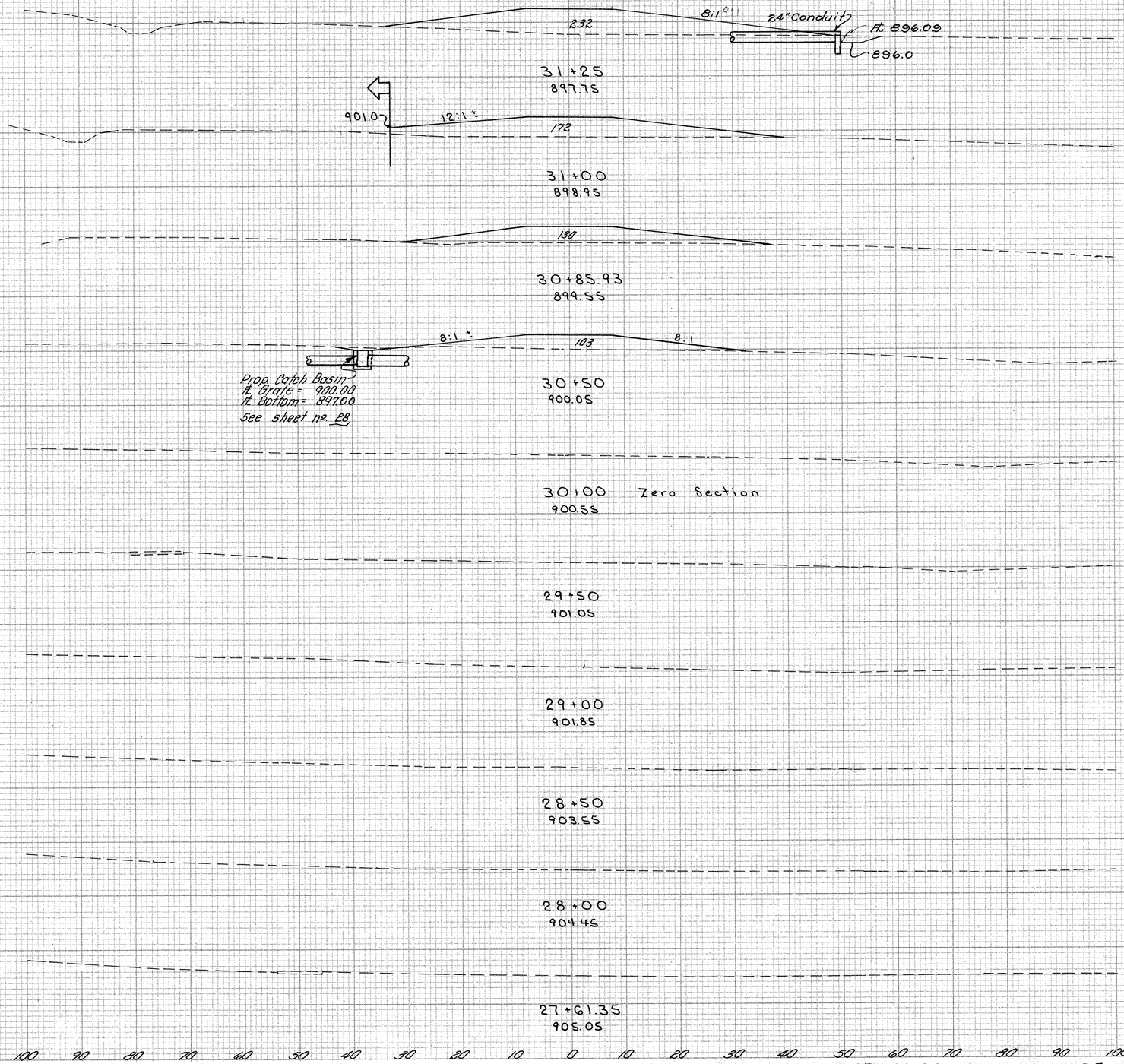
Sta. 8+01.52

X-SECTIONS STA. 8+19 TO 10+00 WEST PARK TRUCK RAMP

SEEDING	
END WIDTH	SQ. YDS.
87	225
75	115
73	304
79	219
0	

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	1-73	JAW	2-73				
TEMPLATE	RR	2-73	CER	3-73				
DITCHES	RR	2-73	CER	3-73				
AREAS	JAW	4-73	W.M.	4-73				
VOLUMES	JAW	4-73	W.M.	4-73				
SEEDING	JAW	4-73	W.M.	4-73				

100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100



FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

131/191

AUGLAIZE COUNTY

AUG-75-4.97

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	232		
		0	187
0	172		
		0	78
0	130		
		0	155
0	103		
		0	96
0	0		

X-SECTIONS STA. 27+61.35 TO 31+25 EAST PARK CAR RAMP

SEEDING	
END WIDTH	SQ. YDS
49	
	179
55	
	306
55	
	297
52	
	278
48	
	267
48	
	198
46	
	430
79	
	231
87	

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	W.M.	1-73	JAW	2-73				
TEMP.	RR	2-73	CBK	3-73				
DTL.	RR	2-73	CEK	3-73				
AR.	JAW	4-73	W.M.	4-73				
VOL.	JAW	4-73	W.M.	4-73				
SEEDING	JAW	4-73	W.M.	4-73				

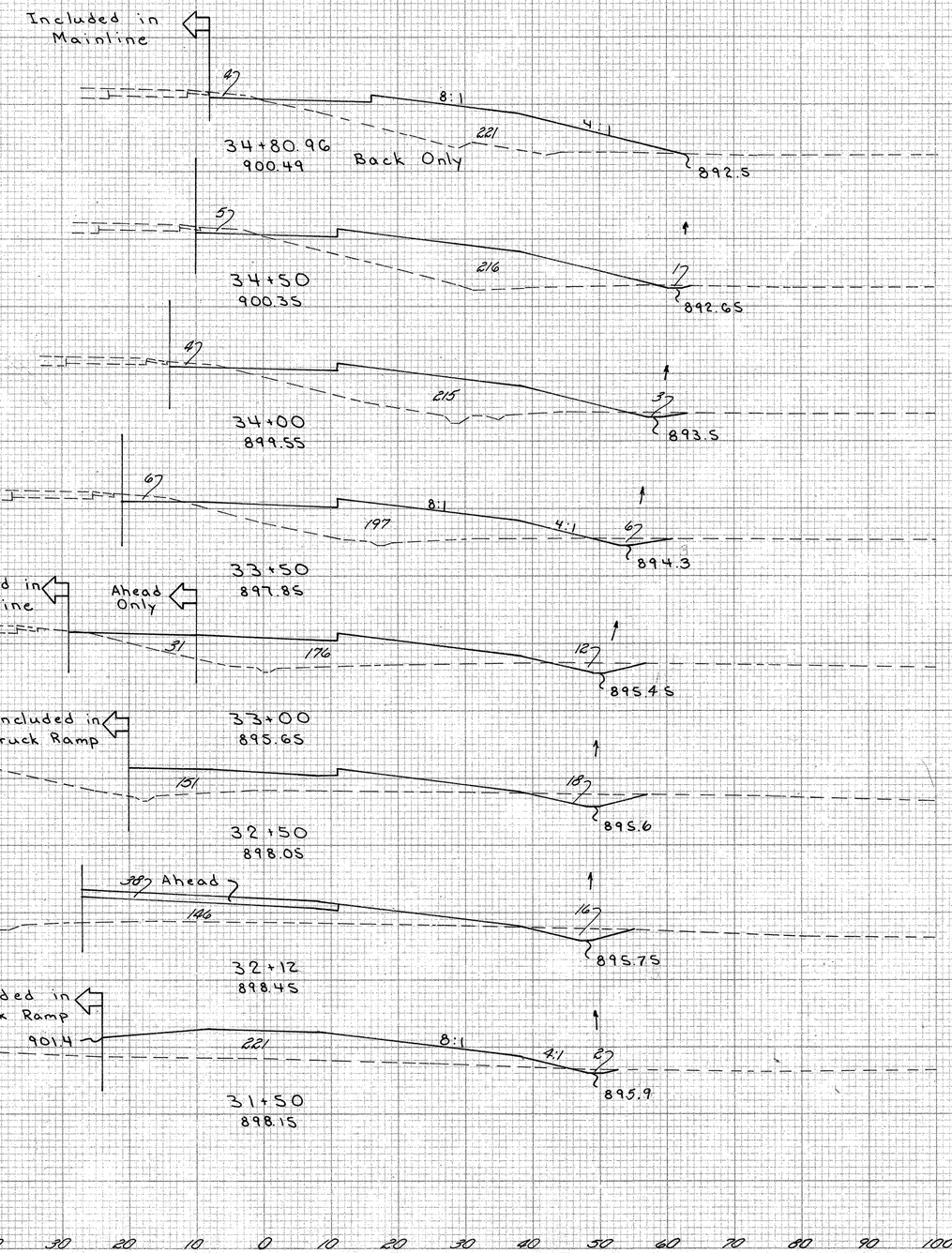
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

132
191

AUGLAIZE COUNTY

AUG -75 - 4.97

34+80.96 Car Ramp :
39+66.05 Truck Ramp



END AREA		VOLUME	
CUT	FILL	CUT	FILL
4	221		
		6	251
6	216		
		12	399
7	215		
		18	382
12	197		
		22	374
Ahead 12	207		
Back 12	176		
		28	303
18	151		
		24	209
Ahead 16	146		
Back 16	184		
		20	465
2	221		
		1	210
0	232		

Back Only

Sta. 31+25

EXCAVATION 131 Cu.Yd.
EMBANKMENT 3109 Cu.Yd.
SEEDING 3049 Sq.Yd.

X-SECTIONS STA. 31+50 TO 34+80.96 EAST PARK CAR RAMP

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	WJM	1-73	JAW	2-73				
TEMPLATE	RR	3-73	CEK	3-73				
DITCHES	RR	3-73	CEK	3-73				
AREAS	JAW	4-73	WJM	4-73				
VOLUMES	JAW	4-73	WJM	4-73				
SEEDING	JAW	4-73	WJM	4-73				

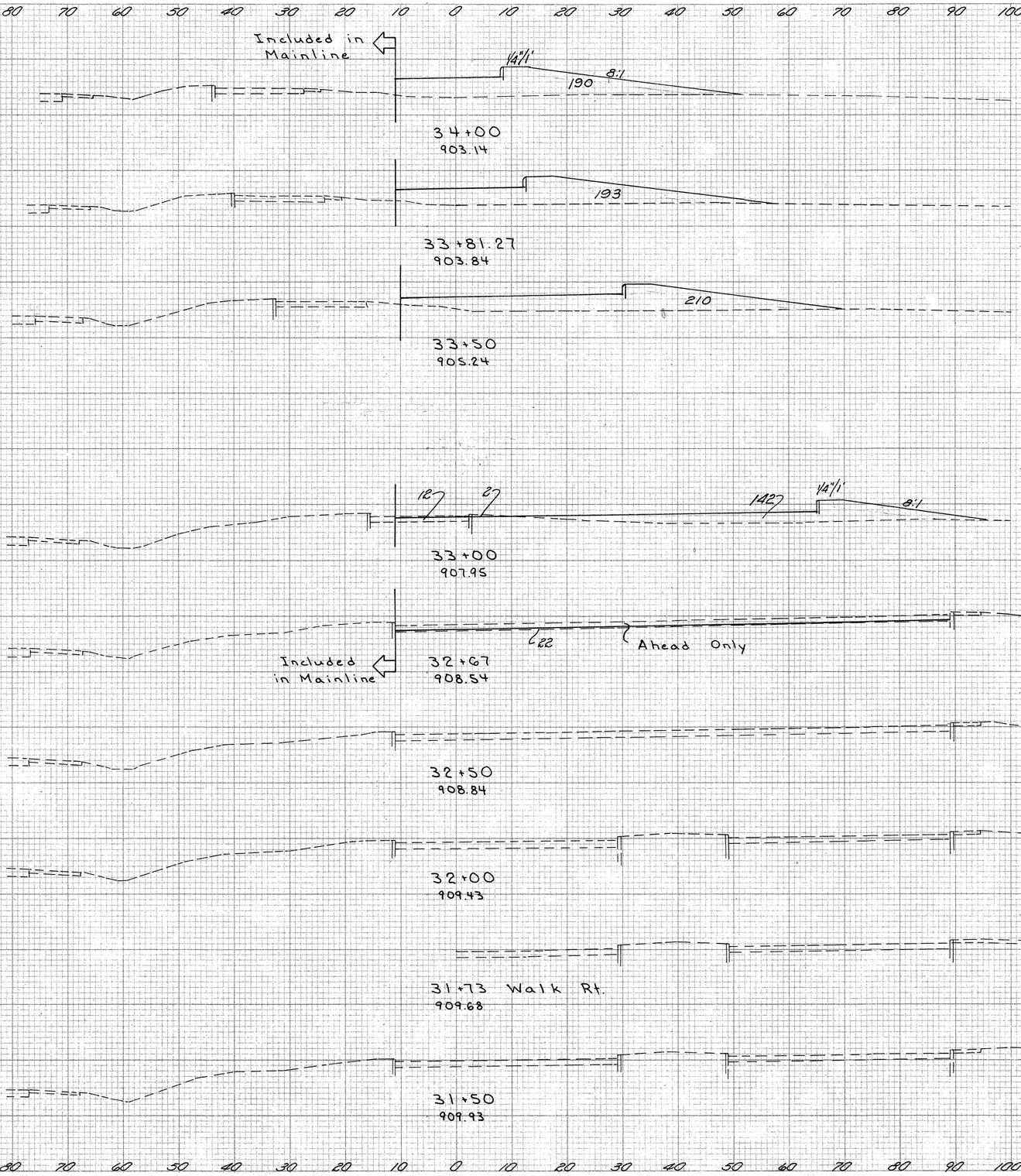
SEEDING	
END WIDTH	SQ. YDS.
35	71
32	109
31	142
20	37
0	Ahead Only

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

133
191

AUGLAIZE COUNTY

AUG - 75 - 4.97



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	190		
		0	132
0	193		
		0	233
0	210		
		2	326
2	142		
		1	100
0	22		

X-SECTIONS STA. 31+50 TO 34+00 EAST PARK TRUCK RAMP

SEEDING			BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
END WIDTH	SQ. YDS.	EXISTING	WTM	1-73	JAW	2-73				
		TEMPLATE	ER	2-73	GEK	3-73				
		DITCHES	RR	2-73	GEK	3-73				
		AREAS	JAW	4-73	WTM	4-73				
		VOLUMES	JAW	4-73	WTM	4-73				
		SEEDING	JAW	4-73	WTM	4-73				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

134
191

AUGLAIZE COUNTY

AUG -75- 4.97

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	1	29	1	67
	0	43	0	97
	0	61	0	208
	0	163	0	327
	0	190	0	194
	0	199	2	268
	3	182	2	235
	0	180	0	317
	0	162	0	184
	0	159	0	123
34+00	0	190		

EXCAVATION 8 Cu. Yd.
EMBANKMENT 281 Cu. Yd.
SEEDING 1955 Sq. Yd.

Included in Mainline

12

29

Included in Car Ramp

38+00
899.66

Back Only

43

37+50
899.16

61

37+00
898.66

901.8

163

36+50
897.46

190

901.2

36+00
899.16

Included in Car Ramp

199

~901.0

35+72.67
900.26

182

32

Proposed Catch Basin
℄ Grate = 900.00
℄ Bottom = 897.60

35+35
900.48

180

35+00
901.28

162

34+50
900.68

159

Included in Mainline

34+19
901.68

34+00

X-SECTIONS STA. 34+19 TO 38+00 EAST PARK TRUCK RAMP

R/W FENCE TABLE

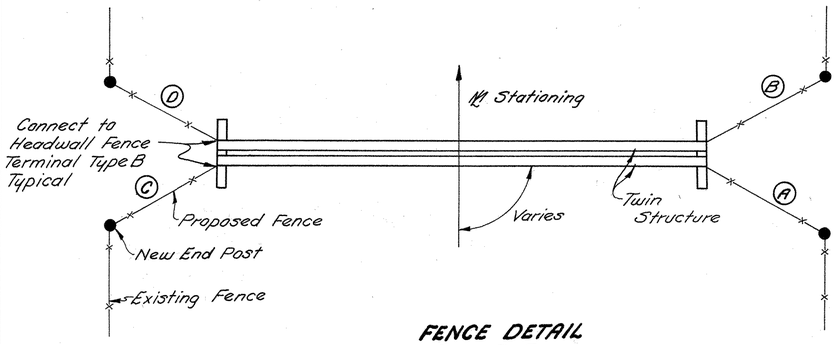
Approximate Stationing	℄ Ref.	Description of Installment	Group	Type 47 Ⓐ L.F.	Ⓑ L.F.	Ⓒ L.F.	Ⓓ L.F.	Ⓔ L.F.	Ⓕ L.F.	Ctl. Rock* Channel Protection Type B Cu. Yd.	Line Post in Dia. Each	End Post Ass'bly Each	Corner Post Ass'bly Each	Fence Terminal Type A Each	Fence Terminal Type B Each	Abutment Connection Each	Crossing Type II Each	Crossing Type III Each	Remarks * Rock channel protection provided to be used if and as directed by the Engineer
Sta. 322+82 to Sta. 323+95			V	312							4		2						N. of N.Y.C. R.R. tracks Take behind piers
Sta. 320+32 to Sta. 323+41			V	805							4		2	1					S. of N.Y.C. R.R. tracks Take behind piers
WAPAK-FISHER IR-75 Sta. 83+90 Rt. to Sta. 331+00 Lt.			V	1430							3	1	2	1					Closure along Ramp "C" Wapak-Fisher Rd.
Sta. 352+54 to Sta. 352+70	Lt.	TWIN STRUC.	I				58						1		1				
Sta. 352+93 to Sta. 353+28	Rt.	TWIN STRUC.	I			49							1		1				
Sta. 351+51 to Sta. 351+73	Lt.	TWIN STRUC.	I		36								1		1				
Sta. 351+99 to Sta. 352+09	Rt.	TWIN STRUC.	I	41									1		1				
Sta. 370+63 to Sta. 371+18	Rt.	Bridge	III	57									1	1		1	1		
Sta. 371+58 to Sta. 372+01	Rt.	Bridge	III		46								1	1		1	1		
Sta. 370+63 to Sta. 371+18	Lt.	Bridge	III			57							1	1		1	1		
Sta. 371+58 to Sta. 371+98	Lt.	Bridge	III				43						1	1		1	1		
Sta. 447+94 to Sta. 448+03	Lt.	Bridge	IV	62									1	1		1	1		
Sta. 448+17 Tgt. to Sta. 448+23	Rt.	Bridge	IV		31						1			2		1			
Sta. 448+38 to Sta. 448+58	Rt.	Bridge	IV			67							1	1		1	1		
Sta. 449+57 to Sta. 449+76	Lt.	Bridge	IV				65						1	1		1	1		
Sta. 449+91 Tgt. to Sta. 449+95	Rt.	Bridge	IV					25			1			2		1			
Sta. 450+99 to Sta. 450+10	Rt.	Bridge	IV						60				1	1		1	1		
Sta. 462+20 to Sta. 462+70	Rt.		II	50								2						1	
Sta. 513+23 to Sta. 513+46	Rt.	Bridge	III	26									1	1		1	1		
Sta. 513+93 to Sta. 514+24	Rt.	Bridge	III		33								1	1		1	1		
Sta. 512+01 to Sta. 512+27	Lt.	Bridge	III			27							1	1		1	1		
Sta. 512+73 to Sta. 513+84	Lt.	Bridge	III				112						1	1		1	1		
Sta. 540+50 to Sta. 541+85	Rt.		II	135								2						1	
Sta. 602+65 to Sta. 603+24	Rt.	Bridge	III	60									1	1		1	1		
Sta. 603+71 to Sta. 604+29	Rt.	Bridge	III		59								1	1		1	1		
Sta. 601+46 to Sta. 602+03	Lt.	Bridge	III			59							1	1		1	1		
Sta. 602+51 to Sta. 603+03	Lt.	Bridge	III				54						1	1		1	1		
Sta. 17+52 to Sta. 17+63	Rt.	Struc.	I	30								1			1		1		National Road
Sta. 18+13 to Sta. 18+17	Lt.		II	50									2					1	National Road
				3058	205	259	332	25	60	30*	13	6	28	22	5	18	18	3	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

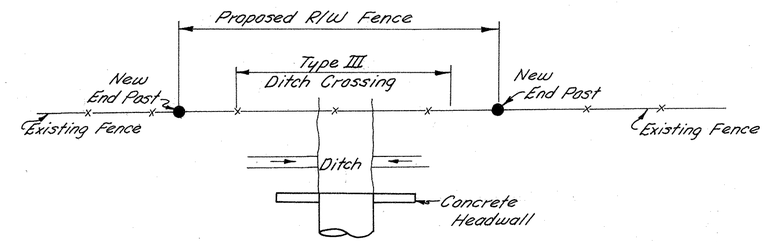
135
191

AUGLAIZE COUNTY

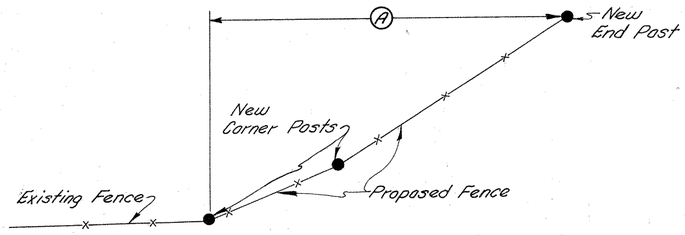
AUG.-75-4.97



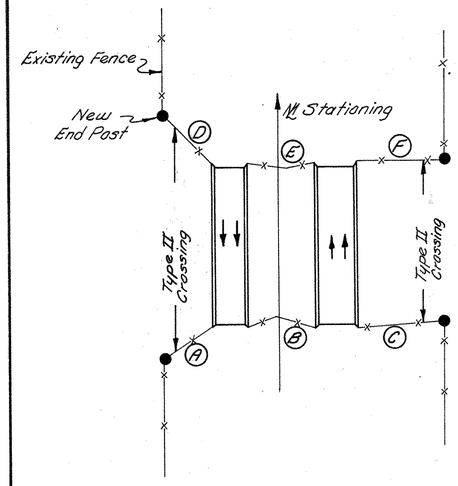
FENCE DETAIL GROUP I



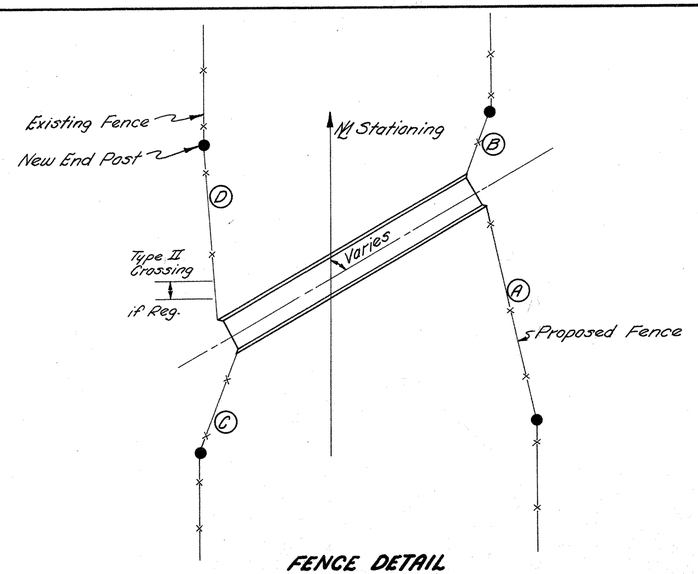
FENCE DETAIL GROUP II



FENCE DETAIL GROUP V



FENCE DETAIL GROUP IV



FENCE DETAIL GROUP III

	BY	DATE
DETAILED		
DETAILS CHECKED		
DETAILS REVISED		

7-73 Master

815 SIGNING NOTES

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

136/191

AUGLAIZE COUNTY
AUG. - 75 - 4.97

815 Signs, Extrusheet Type, as per plan

The extrusheet panels shall be fabricated in accordance with Shts. 166 167 (Dwg. ECD-1, and ECD-2). Mounting clips shall be included as part of the signs, in the quantity specified on the above mentioned drawings.

Sign face background material shall be Type F reflective sheeting. The proposed background color and legend type shall be indicated on each sign layout shop drawing submitted for review. The following code shall be used:

CODE	COLOR DESCRIPTION
RSG	Green
RSB	Blue
RSW-B	Silver-White, Grade 1
RSY	Yellow
RSBR	Brown
RSO	Orange

The sign legend shall include letters, digits, route shields, symbols, borders, and outlines coded and described in accordance with the following schedule and indicated on each shop drawing submitted for review.

CODE	DESCRIPTION	COLOR
DCW	Demountable Reflective Unit Type	White
DCBK	Demountable Non-reflective Type	Black
DAW	Direct Applied Reflective Sheeting, Silver-White, Grade 2	White
DAB	Direct Applied Non-reflective Sheeting	Black

Interstate route shields mounted on signs shall be of reflective sheeting type, mounted as separate and complete units using Silver-White Grade 2 reflective sheeting, Type F, with reverse screen transparent red and blue overlay. Numerals and borders shall be white demountable reflective unit type copy.

Ohio and US route shields shall be mounted as separate and complete units, using Silver-White Grade 1 reflective sheeting, Type F, with black silk screen paste numerals.

Exit number panels, where required, shall include 4-pound drive post bracing (6-foot lengths) and mounting clips in accordance with Sht. 169 (Drawing TPS-1). The same method shall be used for supplementary signs such as NEXT EXIT_____ MILES signs.

Extrusheet panel signs shall have a glare shield included as part of the signs, if the signs are to be illuminated. The glare shield shall be of the same material as the sign panels and shall be interlocked or bolted to the sign. The face material of the glare shield shall be non-reflective sheeting such as Scotchcal, Tedlar, or an approved equal. Notches shall be cut in the glare shields to the dimensions shown on the approved shop drawings. The area of the glare shield shall be measured in the same manner as extrusheet panel signs and shall be paid for at the unit price bid for extrusheet panel signs.

The unit price bid per square foot for Item 815 Signs, Extrusheet Type, as per plan, shall include payment for all required legend, hardware and all necessary equipment, labor, and materials necessary to furnish and erect the completed signs including packaging, delivery and storage when needed.

815 Signs, Flat Sheet Overlay Type

If specified in the plans, overlay signs shall consist of aluminum flat sheet (.063 inch thick) with reflective sheeting of a color compatible with the color used on the underlying sign unless otherwise noted. Sign legend shall be similar to that specified for Aluminum Extrusheet Type signs. Shop drawings submitted for review shall be coded similar to requirements for Aluminum Extrusheet Type signs.

Overlay signs are to be shop mounted onto extrusheet signs. Method of attachment shall be by rivets of adequate length at one foot (1'-0") maximum spacing on the periphery of sections and complete overlay sheeting and at two feet (2'-0") maximum spacing over the entire surface area of the overlay sheeting. Overlay signs over 8 feet by 4 feet in size may be furnished in two sections rather than one.

The unit price bid per square foot for Item 815 Signs, Flat Sheet Overlay Type, as per plan shall include payment for all required legend, hardware, equipment, labor and tools necessary to furnish and mount the overlays as specified.

815 Signs, Flat Sheet Type, as per plan

The aluminum flat sheet sign blanks shall be fabricated in accordance with Sheet 168 (Drawing SBD).

Mounting hardware, i.e., bolts, washers, bearing plates, and nuts shall be included as part of the signs. The number and sizes furnished of each of these items shall conform with that shown on Sheets 168-178-179 (Drawings SBD, SOW, and GMSS, and MSI).

Sign face background material shall be reflective sheeting, Type F.

The typical sign legend shall be silk screened and include letters, digits, symbols, borders and outlines. The following color coding shall be shown on shop drawing submitted for review and approval:

CODE	COLOR
RSTR	Silver-White, Grade 2, with reverse screen transparent red
RSY	Yellow
RSW-B	Silver-White, Grade 1
RSTRB	Silver-White, Grade 2, with reverse screen transparent blue and red
RSTB	Silver-White, Grade 2, with reverse screen transparent blue
RSTG	Silver-White, Grade 2, with reverse screen transparent green
RSG	Green

For Type Code _____
Signs, direct applied sheeting shall be used for legend including letters, digits, symbols, borders and outlines. The following color coding shall be shown on shop drawings submitted for review and approval:

CODE	DESCRIPTION
RSW-A	Reflective Sheeting, Type F (Silver-White, Grade 2)
SPBK	Silk Screen Paste (Black)
DAW	Reflective Sheeting, Direct Applied (Silver-White, Grade 2)
DAB	Non-reflective Sheeting, Direct Applied (Black)

The unit price bid per square foot 815 Signs, Flat Sheet Type, as per plan, shall include payment for all required legend, hardware, plus all necessary equipment, labor and tools to furnish and erect the signs including packaging, delivery and storage when needed.

Sign Legends

Sign legend shall be in accordance with the American Association of State Highway Officials "Manual for Signing and Pavement Marking of the National System of Interstate and Defense Highways" 1970 edition. Sign lettering when indicated as a series type such as C, D, etc., shall be designed in accordance with the "Standard Alphabets for Highway Signs" published by the Federal Highway Administration. Copies of the above references are on file in the Division of Highways, Bureau of Design Services, 25 South Front Street, Columbus, Ohio 43215.

Clear Coating of Reflective Sheeting:

The provisions of Section 815.10 apply except where pressure sensitive reflective sheeting is used. Pressure sensitive reflective sheeting shall not be clear coated and only the edge sealer is required for this type of sheeting.

Colors:

Colors proposed and shown on each sign layout shop drawing submitted for review shall conform to those shown in the Ohio Manual of Uniform Traffic Control Devices for Streets and Highway, current edition, latest revision, or, in special circumstances, as may be indicated in the plans.

In addition to the requirements of Supplemental Specification 815, colors for reflective sheeting shall conform to the latest edition of Color Tolerance charts produced by the Federal Highway Administration.

Processing of Sign Shop Drawings

1. The State will furnish the following information to the contractor upon award of the contract:
   a. Sign Design Layout Standards for Directional Guide Signs.
   b. Traffic Standard Drawings for regulatory, warning, and route marker signs.
   c. Special design layout criteria as applicable.
2. The contractor shall submit 8 copies of individual shop drawings as follows:
   a. Each separate sign message layout including legend size and spacing with reference and/or code number. Shop drawings for standard warning, regulatory, and route marker signs are not required unless specifically requested by the State in information furnished under Item 1 above.
   b. Sign backing material designs showing overall dimensions, extrusheet panel widths, overlay panel widths, notches in glare shields, and number of mounting clips.
   c. Proposed sign face colors including legend, border, and background of sign.

815 Packaging, Shipment, and Storage of Signs

In addition to the requirements of Supplemental Specification 815, the following requirements shall be adhered to:

Extrusheet Signs:

1. Signs shall be protected by crating or by temporary vertical backbracing attached to signs to assure that the sign is rigid and protected during packaging, loading, shipment, and handling or storage of signs at the job site prior to erection.

   Vertical bracing (if signs are not crated) shall be at a minimum spacing of 6 feet and maximum of 8 feet on each sign with temporary mounting devices attaching signs to backbracing at a maximum of 2 feet intervals. Bracing shall extend a minimum of 3 inches below bottom of signs to assure that the bottom of sign is kept above ground during shipment or storage.

2. Sign faces shall be protected by a plastic coated paper with the plastic surface adjacent to the sign face and heavy corrugated cardboard, blankets or equivalent covering over the plastic material attached to the sign.

3. Signs shall be shipped completely assembled in 1 piece, except for signs over 8 feet in height which may be shipped in 2 pieces for assembly at the project site.

   Sign identification shall also be provided on the back of each extrusheet sign. This identification shall be inconspicuously located or in a detachable form.

   Signs or sign components which are shipped with aluminum overlays mounted on the extrusheet panels shall have adequate identification to permit assembly and erection at the proper location without detaching the overlay.

Flat Sheet Signs:

1. Flat sheet signs of like size may be packaged together.
2. Sign faces shall be protected by slip sheets which have plastic coated finish on the side adjacent to each sign face. Oily or waxy paper slip sheets are not acceptable.

Storage of Signs:

Sign faces shall not become wet during shipment or storage. If it is necessary to store signs on or near the project site prior to erection, adequate protection by approved shelter or protective covering is required at all times to assure that signs are not exposed to weather elements.

Extrusheet signs shall be stored in a vertical position in crates or supported by temporary bracing above natural ground, with the top edge of sign up. Under no circumstances shall extrusheet signs be stored in a horizontal position.

Rev 8-17-73
APRIL 28, 1971

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

137/191

AUGLAIZE COUNTY
AUG. - 75 - 4.97

SIGNING NOTES

SIGN LOCATIONS:
All signs shall be placed normal to the roadway on which they are stationed unless otherwise noted on the plans.

816 BREAKAWAY SIGN SUPPORT CONNECTION:
This item consists of cutting and drilling the structural support; furnishing and attaching the fuse plate; and furnishing and attaching the base plates for each structural sign support as indicated on the plans. All materials, labor and equipment required to fabricate and install this item for each sign support (exclusive of the structural sign support) will be measured and paid for at the unit price bid each for Item 816 Breakaway Sign Support Connection.

816 STRUCTURAL SUPPORTS, STEEL BEAMS (TYPE):
The structural steel beam supports including 6 pound beams, 4 pound posts and hardware shall be galvanized in accordance with ASTM A-123 and A-153 respectively. All fabrication shall be completed prior to galvanizing.
Quantities for Item 816 "Structural Supports, Steel Beam (Type), appearing in the quantity tables are approximate. The Contractor shall be responsible for determining exact support lengths prior to fabrication and galvanizing of supports. Payment shall be at the contract unit price bid per lin. ft. which price and payment shall include all costs in connection with the embedment of the supports. The cost of the concrete used for embedment if required will be a separate pay item.

CONSTRUCTION LAYOUT STAKES FOR SIGNS:
The contractor shall stake out all sign supports in accordance with Supplemental Specification 816 prior to installation of any foundations or supports.
After stakeout the contractor shall notify the Engineer a minimum of seven (7) days in advance of scheduled work.
Support locations for each support will be field checked taking into account both underground and overhead obstructions and conflicts and approved by the Engineer who shall coordinate with the District Traffic Engineer prior to proceeding with the construction work required.
If both major and minor type supports are included within the project it will be permissible to perform the construction stake out and field inspection in two (2) stages, one for major supports and one for minor supports.
Cost for this item of work will be included in the lump sum bid for Item 623 "Construction Layout Stakes".

PLAN SPECIFICATION REFERENCES
References to Item 625 and 713 in these plans shall be considered to read as respective references to Items S625 and S713.

SEQUENCE OF OPERATIONS:
The grouping of items of work into pay items as indicated above is not intended to establish the sequence in which construction is to be performed. However the installation of all new sign supports should be completed before any existing signs to be relocated are removed. Only one sign in the sequence of three guide signs for any interchange should be down at any time. To insure maintenance of adequate traffic control at all times, no guide signs are to be removed without the approval of the Engineer.
The Contractor may regroup other items of work in a manner which will add to the efficiency, economy and safety of operations in securing a complete workable installation in conformance with the plans.

202 REMOVAL OF EXISTING GROUND MOUNTED SIGNS, OVER AND UNDER 40 SQ. FT., AS PER PLAN:
This work shall consist of the removal of existing ground mounted signs as indicated in the plans. All signs removed shall be stored neatly within the limits of the project at locations approved by the Engineer for removal by State Forces.
To assure maintenance of adequate traffic control at all times, no signs are to be removed without the approval of the Engineer.
Payment for removal of existing signs shall include all necessary labor and equipment required to perform the required work as indicated above:
1. Basis of payment shall be as follows for signs forty (40) square feet or greater: Removal of existing major signs as per plan at the contract unit price per each.
2. Basis of payment shall be as follows for all other signs: Removal of existing signs as per plan at the contract price bid per each.

816 STRUCTURAL SUPPORTS, 6 LB. BEAM, AS PER PLAN, DRIVEN:
This item shall consist of the furnishing, assembly, and installation of two (2) 3 lb. per foot drive posts (6 lb. beam) in combination with a square welded or seamless galvanized tubular post extension spliced to the top of the 6 lb. beam. Details are shown on Sheet 178.
Square tubular post material shall conform to ASTM A-570 Grade "B" after fabrication.
Work shall include all labor, materials, equipment, tools, and hardware necessary to perform the required item of work.
Basis of payment shall be for Structural Supports, 6 lb. Beam, As Per Plan Driven per linear foot measured by total length of combination beam from end to end.

816 STRUCTURAL SUPPORTS DRIVEN TYPE:
Driven type structural supports will be driven to a depth of five feet (5'-0") minimum below ground line in such a manner that no deformation within the length of the support, or damage to the support will occur.
Prior to installation each support shall be significantly marked with paint at a location on the support 5'-6" from the embedded end, and approved by the Engineer.
"Structural Supports 6 pound beam, driven and 6 pound beam, as per plan, driven" will include the 10" x 12" x ¼" soil plate detailed in the plans.
Payment for installation of sign supports by the above method shall be included in the cost of the various support types specified including all labor, equipment and materials required.

GROUNDING
Each sign support or structure shall be grounded with a #4 insulated conductor. The grounding conductor shall be connected to the switch then to the compression connector in the sign support then to a 1"x10' ground rod. Ground conductor shall be exothermically welded to ground rod and then taped with plastic electrical tape at each exposed portion of conductor. The welded connection and taped portion shall be painted 2 coats of insulating enamel.

SIGN SUPPORTS REMOVED FOR STORAGE
This work shall consist of the removal of existing sign supports and foundations as indicated in the plans. In addition to the provisions of Item 202, the following shall apply:
All existing ground mounted sign supports and existing overhead supports and accessories to be removed with this project shall remain the property of the State. These items shall be carefully removed in such a manner as to avoid bending, twisting or other deformation damage and stored on the right of way as directed by the Engineer for disposal by the State's Forces. The Foundations shall be removed to a minimum of one foot below the ground surface. Backfilling, restoration and disposal of waste material shall be in accordance with the Specifications.
This item shall be paid at the unit price bid per each "Sign Support Removed for Storage, By Type".
Type A — 8 lb. beams or smaller
Type B — Beams larger than 8 lb.
Type C — Overhead sign supports

620 DELINEATORS, AS PER PLAN:
The Contractor shall have the option of driving or concrete embedding the delineator post in accordance with details of Sheet 180.
Posts may be trimmed on the embedded ends to adjust for grade and required delineator mounting height.
Concrete shall be Class "C".
In either case, the Contractor shall be responsible for damage to underground utilities or cable during performance of this item of work.
The quantity furnished and installed shall be paid for at the price bid per each which price shall be full compensation for either type of installation.

816 OVERPASS STRUCTURE MOUNTED SIGN SUPPORT
This item of work shall consist of the furnishing, fabrication and erection of the materials for the overpass structure mounted sign supports in accordance with materials and requirements specified and detailed in these plans.
Work shall include all necessary framing, sign brackets, welding and bolts.
Basis of payment shall be at the bid price per each Overpass Structure Mounted Sign Support, By Type including all materials, equipment, labor and incidentals required to perform the item of work.

POLYVINYL CHLORIDE PLASTIC CONDUIT
1. Scope. This specification covers polyvinyl chloride conduit for either direct burial in earth or for encasement in concrete and shall be of the size and type specified.
2. Detail comply with one of the following.
(A) Conduit conforming to NEMA Standards Publication No. TC1 with the exceptions that (1) conduit and conduit fittings composed of styrene polymers or copolymers shall not be acceptable and (2) the physical requirements, TC1-303 Deflection Temperature, TC1-304 Tensile Properties, and the test methods, TC1-405 Deflection Temperatures, TC1-406 Tensile Properties, shall not be required.
(B) Conduit conforming to NEMA Standards Publication No. TC6 with the exception that conduit and conduit fittings composed of acrylonitrile-butadiene-styrene (ABS) shall not be acceptable.
(C) Conduit conforming to the requirements of (A), above, with the additional exceptions that where 4 inch nominal size conduit is to be encased in concrete it shall be permissible to use conduit having a minimum wall thickness of 0.075 inches and an outside diameter not less than 4.202 inches nor more than 4.360 inches instead of those dimensions specified in NEMA Standards Publication No. TC1.

For any given installation the mixed use of the conduits described in (A) and (B) shall be prohibited.
When the conduit described in (C) is used in a given installation all such conduit shall be the product of a single manufacturer.

AUGLAIZE COUNTY
AUG - 75 - 4.97

625 MERCURY VAPOR SIGN LIGHTING LUMINAIRE, WITH BALLAST AND LAMP, BY RATING

This item of work shall consist of furnishing mercury vapor sign lighting luminaires with lamp and integral ballast as specified below.

The luminaire shall be no more than 8½" high overall by 16" wide by 18¼" deep including the ballast enclosure. These measurements shall be checked when the luminaire is resting on a horizontal table top with the lens up.

The outer housing of the luminaire, the frame for the lens, and the ballast housing shall be of cast aluminum with a finish of gray baked acrylic base enamel.

The lamp housing body shall bave 3-5/16" diameter holes drilled according to the mounting plate design shown on Sheet 182A. The centerline of two of the boltholes shall be 1 3/8" away from and parallel with the projection of the lamp centerline on the base of the lamp housing.

The reflector shall be made of a single piece of aluminum, die formed to shape and processed to distribute the light evenly over the sign area. A heavy duty mogul base lampholder shall be securely fastened to the reflector and the reflector shall be securely fastened to the lamp housing.

The luminaire shall have a borosilicate glass lens capable of withstanding thermal shock and impact of freezing rain and hail. The lens shall be either clear or have a mild diffusion pattern molded into its inner surface. A permanent, flexible, waterproof sealer shall be used to seal the lens into its frame. A continuous water proof gasket shall be provided to seal the lens and frame unit to the lamp housing. This gasket shall be so designed to stay in the proper position for at least 10 years regardless of the number of times the lens unit is opened for service or adjustment.

The lens unit shall be hinged on one edge and fastened on the other edge with spring loaded latches that require no tools to open. The hinges, latches and all other external fasteners shall be of stainless steel.

The luminaire shall be provided with an integral ballast of at least 90% power factor, and of the constant wattage autotransformer type to provide plus or minus 5% lamp watt variation for a plus or minus 10% line voltage variation. Primary supply voltage shall be 60 hertz and 120, 208, 240, 277 or 480 volts as specified in the plans. The luminaire shall operate satifactorily over any expected outdoor temperatures down to -20 degrees F. Self-ballasted mercury vapor lamp type luminaires are not acceptable.

Basis of payment for this item shall be at contract unit price per each "625 Mercury Vapor Sign Lighting Luminaire With Ballast and Lamp, By Rating" furnished to the job for installation under item 625 Mercury Vapor Lighted Sign Wired Complete.

625 MERCURY VAPOR LIGHTED SIGN, WIRED COMPLETE:

This item shall consist of the installation of the mercury vapor luminaires furnished under "625 Mercury Vapor Sign Lighting Luminaire, with Lamp By Rating". It will also include furnishing and installation of the electrical components and hardware from the disconnect switch to the luminaire including furnishing and installing the 2.16#/ft. aluminum channel and fixture mounting plate with "J" bolts. These items will be mounted on the "G" Support arm which is included with Item 816 Overhead Sign Support By Type.

Luminaires shall be mounted as shown on Sheet 182A. Wiring shall be not less than #12 THW in 3/4" dia. conduit. The wires should be continuous from a junction box on the top chord of the sign support or on structure mounted conduit to the first fixture, and then continuous to the second, third and fourth fixtures on a single sign. On multiple sign installations each sign shall have a separate junction box so that, if maintenance is needed, the sign and all electrical devices attached to it can be disconnected as a unit from the support by disconnecting only two wires and the U bolts attaching it to the support.

Conduit for the mercury vapor sign lighting shall be as follows:

1. A screw-on-cover, 1¼" double hub junction box shall be fastened to a 1¼" coupling welded to the top truss chord of the sign support arm with a short 1¼" nipple. On structure mounted signs the junction box shall be attached to the conduit mounted on structure.

2. A length of 3/4" P.V.C. covered flexible waterproof conduit shall connect the junction box through a 1¼"x3/4" bushing to a 3/4" LR or LL condulet on the sign bracket nearest tha pole on which the switch enclosure is mounted.

3. 3/4" rigid conduit shall connect the LR or LL condulet to a 3/4" LB condulet so arranged to line up the short end with the 1 1/8" dia. holes in the sign bracket and fixture support arm. This rigid conduit shall be fastened to the sign bracket with not less than 2 conduit clamps placed within 3" of the condulet fittings and not more than 24" c/c.

4. 3/4" rigid conduit shall connect the above LB condulet to the short end of another LB condulet fitting at the other end of the fixture support arm. This conduit shall be run through both 1 1/8" dia. holes in the fixture support arm, be jogged out of the way of the fasteners on the diagonal bracing rods, when required, be fastened near each end an at not less than 24" c/c, and be made to a length that, when screwed into both condulet fittings, the rear condulet shall be approximately centered on the sign bracket web and the front condulet shall fit snugly against the outer plate of the fixture support arm. The long end of the front condulet shall be angled downward approximately 30 degrees, when viewed from the front of the sign, to allow the next piece of conduit to be jogged easily to lay along the centerline and approxmiately 3/8" in front of flange of the channel that supports the lighting fixtures.

5. A 3/4" type "T" condulet fitting shall be located within approximately 18" of the near edge of each fixture on the sign. 3/4" rigid conduit shall be connected from the LB condulet fitting described above to the first "T" condulet. Straight lengths of conduit shall connect as many "T" condulets as are required for the number of luminaires specified for the sign. A threaded plug shall be used to close the opening in the last "T" condulet used on each sign installation. Suitable conduit clamps shall be used on 24" centers to hold the entire run of conduit on the centerline of the channel flange as listed under Item 4 above. The Type "T" condulets shall be so oriented that the third tapped opening shall be perpendicular to the face of the sign.

6. A length of 2/4" P.V.C. covered waterproof flexible conduit shall connect each fixture to each corresponding "T" condulet. The length of this conduit shall be so arranged to make a neat and gradual curve into the fixture without either sharp bends or drooping appearance. Wiring for mercury vapor sign lighting shall be sized and installed according to the National Electrical Code but shall be not less than No. 12 THW and shall be spliced only in junction boxes or in the wiring enclosure of the luminaire. All wiring shall be in conduit, inside structural chords and poles, or in electrical boxes and fixtures. Solderless connectors, of the proper size and type, may be used where splices and junctions are allowed above ground level. However, when used, they shall be securely taped with water resistant electrical tape to form a waterproof joint. When solderless connectors are not used, all splices and junctions above ground shall be soldered and double taped to make a waterproof electrical joint.

Payment for this item shall be at the contract unit price bid for the following:

1. 625 Mercury Vapor Lighted Sign, Wired Complete.

2. 625 Mercury Vapor Lighted Sign, Wired Complete (Structure Mounted).

Payment shall include all labor and materials to connect all luminaires on one sign into the disconnect switch enclosure, including conuit on structure for structure mounted signs. When more than one sign is mounted on an installation, each sign shall be considered as a separate pay item.

DISCONNECT SWITCH WITH ENCLOSURE

This item shall include furnishing of a 30 amp. 600 volt fused disconnect switch in a NEMA 4 stainless steel enclosure attached to each sign support by means of mounting brackets as described in detail on Standard Drawing 816-80.00R.

The disconnect switch shall be a 3 pole, solid neutral type meeting the requirements of 713.19, 10.

The enclosure shall meet the requirements of 713.20 with the following exceptions.

1) The stenciled legend or plate shall read "sign lighting".

2) A chase nipple shall be furnished and installed in the back of the enclosure.

3) Factory installed hubs shall not be provided on the top.

4) A screened ventilation opening shall not be provided.

5) Mounting poles, slots and chase nipple location shall match those provided on the switch enclosure bracket and sign support.

Each switch enclosure shall be furnished with one padlock. Padlocks shall have a brass body and wrought iron shackle equal to Russwin No. 2882 KA or Master No. KA or approved equal. Padlocks shall be all keyed alike with Master Key 3476.

Basis of payment for this item shall be per each at contract unit price, which shall include all labor, material, and equipment to complete this item of work.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

137B
191

AUGLAIZE COUNTY
AUG.-75-4.97

OVERHEAD SIGN SUPPORT FABRICATION
In lieu of plan details the following are fabrication requirements for supports in this project:
All handholes fabricated for supports shall be 4" X 8" in size with face flush with pole exterior at the required locations described in the plans.
The electrical service entry through each vertical sign support pole shall be provided by means of a two inch (2") half coupling centered at a height of 5'-0" above the bottom of the base plate.
The disconnect switch enclosure shall be mounted in such a manner that the bottom of the enclosure will be 4'-9½" (± 1/4") above the bottom of the base plate.
Payment for the fabrication requirements specified above shall be incidental to the cost of each support structure.

816 CONCRETE FOUNDATION FOR SIGN SUPPORTS
Payment for this item shall be based on plan dimensions (or dimensions as modified by the Engineer in lieu of plan quantities) as required in Supplemental Specification 816.
Payment for reinforcing steel and installation only of conduit ells shall be included in the cost of concrete foundations for overhead sign supports. Concrete shall be class "C".
Basis of payment shall be as follows:
1. Concrete for overhead sign support foundations, per cubic yard.
2. Concrete for ground mounted sign support foundations, per cubic yard.

816 OVERHEAD SIGN SUPPORT, BY TYPE
All component parts of the overhead sign supports shall be steel except for the truss and components for the Number 7 series which shall be aluminum. For specific details and materials, see Sheet Numbers 171.
Cost of furnishing and installing the sign brackets and the fixture support arm, length "G", with mounting holes and hardware shall be included in the contract unit price bid for overhead sign supports.
Modifying Supplemental Specification 816 switch enclosure mounting brackets including mounting bolts and drilled holes shall be furnished and installed under payment for 816 Overhead Sign Support Structure at the contract price per overhead sign support, by type.
Payment for this item shall be made at the contract unit price bid for each overhead sign support, by type, installed in place and accepted, which price shall be full compensation for furnishing all anchor bolts, 2" and 3/4" EHT conduit ells (For installation under 816 Concrete Foundations for Sign Supports) and for furnishing and installing each overhead sign support structure shown in the plans including fixture support arms, switch enclosure mounting bracket, sign brackets and all component parts necessary to make a complete workable installation ready for sign erection, installation of disconnect switch and enclosure, ground rod and wire connections and sign wiring.
Erection of these supports shall be accomplished in a manner meeting the requirements of Supplemental Specification 816.

ALTERNATE DESIGNS FOR OVERHEAD SIGN SUPPORTS
If the Contractor desires to furnish an alternate design for overhead sign supports, the alternate design must be submitted to the State at least 21 days prior to opening of bids. The bidder will be notified as to acceptance or rejection of alternate design at least 7 days before bids are to be opened. Alternate designs must utilize tubular structural members. Submissions shall be made to Ohio Department of Transportation, Bureau of Design Services, 25 South Front Street, Columbus, Ohio 43215.

ERECTION OF OVERHEAD SPAN TYPE SIGN SUPPORTS (7 SERIES)
In all cases, span type overhead sign supports and signs shall be erected concurrently. At no time shall the box trusses be erected without the sign being in place within eight (8) hours.

CERTIFICATION AND APPROVAL OF SIGN SUPPORT AND SIGN LIGHTING ITEMS
The Contractor shall submit through proper channels the drawings, information and samples as required below:
A. 8 copies of shop drawings and material lists for approval
   1. Overhead sign supports
   2. Breakaway sign supports
   3. Sign lighting items
B. 8 copies of catalog cuts descriptions of samples of fabricators standard items as shown in the plans or their equals for approval of their use.
C. Certifications and/or samples for all material which have been approved under "A" and "B".
D. Approval of items under "A" and "B" shall be in the hand of the Contractor prior to any purchase or installation.
E. Certifications of samples under "C" must be in hand and approved prior to contract completion.

CAPPING OF CONDUIT
All conduit in foundations which will not have wire or cable pulled into it during construction shall have the ends closed with capped bushings or otherwise sealed in an approved manner to completely keep all moisture and foreign matter out of the conduit.

815 REMOVE AND RE-ERECT EXISTING GROUND MOUNTED SIGNS ON NEW BREAKAWAY SUPPORTS
This work item shall consist of the careful removal of existing ground mounted signs and their re-erection on new breakaway supports at a location specified in the plans in a manner satisfactory to the Engineer. This work shall be paid at the unit price per square foot for 815 Remove and Re-erect Existing Ground Mounted Signs on New Breakaway Supports.

815 REMOVE AND RE-ERECT EXISTING GROUND MOUNTED SIGNS ON NEW YIELDING SUPPORTS
This work shall consist of the careful removal of existing ground mounted signs and their re-erection on new yielding supports (4 lb. post, 6 lb. beam) at a location specified in the plans in a manner satisfactory to the Engineer.
This work shall be paid at the unit price per square foot for 815 Remove and Re-erect Existing Ground Mounted Signs on New Yielding Supports.

SIGNING

GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

138
191

AUGLAIZE COUNTY
AUG.-75-4.97

TYPE CODE 6706

| ITEM | SHEET NUMBER | | |

621 PAVEMENT MARKING

PAVEMENT	SIDE	STATION FROM	STATION TO	4" WHITE EDGE LINE LIN. FT.	6" LANE LINE LIN. FT.		8" CHANNEL LINE LIN. FT.	BROAD TRANSVERSE LINE LIN. FT.	4" YELLOW EDGE LINE LIN. FT.		AIR SPEED LINES LIN. FT.	24" STOP LINES LIN. FT.	CROSS WALK LINES LIN. FT.	CURB MARKING LIN. FT.	ISLAND MARKING SQ. FT.	LANE ARROWS EACH	4" LANE LINE LIN. FT.		REMARKS
		IR-75 MAINLINE																	
	Rt.	314+30	330+00	1,570	1,570				1,570										
	Rt.	330+00	421+00	8,390	9,100				9,100										
	Rt.	421+00	689+00	25867.78	27,202.22				27,202.22										
	Rt.	689+00	704+00	1116.16	1,500				1,500										
*	Lt.	314+00	330+00	1,420	1,600				1,600										
*	Lt.	330+00	415+00	8,070.30	8,500				8,500										
*	Lt.	415+00	689+00	27491.13	27,802.22				27,802.22										
*	Lt.	689+00	704+00	1315	1,500				1,500										
*	Lt.	480+48									130								
*	Lt.	493+68									130								
*	Lt.	506+88									130								
*	Lt.	520+09									130								
*	Lt.	533+28									130								
		INTERCHANGES																	
		US R-33 & I.R-75																	
*	Lt.	319+70	321+70				401	260											
*	Rt.	0+00(A)	9+00(A)						900										
*	Rt.	11+30(A)	16+50(A)						520										
*	Lt.	0+00(A)	13+25(A)	1,325															
		WILPAK-FISHER RD. & I.R-75																	
	Rt.	329+50	331+50				401	260											
		2+00(A)	8+65(A)	665															
		31+50(A)	84+9(A)						515										
		84+90(A)										60							
*	Lt.	329+15	330+75				160												
	Rt.	0+00(B)	20+50(B)	2,050															
	Lt.	3+60(B)	5+30(B)						170										
	Lt.	6+40(B)	14+90(B)						850										
	Rt.	0+00(BS)	0+70(BS)	70															
	Lt.	0+00(BS)	0+70(BS)						70										
*	Lt.	344+80	346+90				401	260											
*	Rt.	0+00(C)	15+60(C)	1,560															
*	Lt.	3+40(C)	5+40(C)						230										
*	Lt.	6+70(C)	14+90(C)						820										
*	Rt.	0+00(CS)	0+70(CS)	70															
*	Lt.	0+00(CS)	0+70(CS)						70										
	Rt.	345+65	347+25				160												
*	Rt.	0+00(D)	8+65(D)	865															
*	Lt.	3+50(D)	8+65(D)						515										
		8+65(D)										65				1			
		S.R-67 & I.R-75																	
*	Lt.	418+20	419+80				160												
	Rt.	0+00(A)	26+15(A)	2,615															
	Lt.	1+40(A)	3+60(A)						220										
	Lt.	11+50(A)	15+95(A)						445										
	Rt.	0+00(AS)	1+65(AS)	165															
	Lt.	0+00(AS)	1+65(AS)						165										
	Rt.	422+15	423+15				401	260											
	Rt.	0+00(B)	16+45(B)	1645															
	Lt.	1+65(B)	6+10(B)						425										
		16+45(B)										40				1			
	Rt.	431+00	432+60				160												
*	Rt.	1+90(C)	6+30(C)						450										
*	Rt.	9+65(C)	16+10(C)						945										
*	Lt.	0+00(C)	17+00(C)	1,700															
*	Rt.	0+00(CS)	1+70(CS)	170															
*	Lt.	0+00(CS)	1+70(CS)						170										
		0+00(CS)										20				1			
	Lt.	0+00(D)	8+80(D)	880															
	Rt.	3+00(D)	9+80(D)						680										
	Lt.	4+95+50	437+50				401	260											
		NATIONAL RD. & I.R-75																	
*	Lt.	689+25	690+85				160												
*	Rt.	1+90(A)	9+50(A)						760										
*	Lt.	0+00(A)	9+50(A)	950															
	Rt.	699+00	701+00				401	260											
*	Rt.	0+00(B)	6+70(B)						670										
*	Lt.	0+00(B)	6+70(B)	670															
		0+00(B)										55				1			
	Rt.	0+00(C)	17+00(C)	1,700															
	Lt.	3+85(C)	8+05(C)						420										
	Lt.	11+30(C)	14+10(C)						280										
	Rt.	0+00(CS)	1+70(CS)	170															
		1+70(CS)										15				1			
	Rt.	0+00(D)	7+75(D)	775															
	Lt.	5+20(D)	7+75(D)						255										
		IR-75 MAINLINE																	
*	Lt.	346+80	349+30														250		
	Rt.	347+25	348+75														150		
*	Lt.	416+70	418+20														150		
	Rt.	419+65	422+15														250		
*	Lt.	437+50	440+00														250		
	Rt.	432+60	434+10														150		
*	Lt.	687+75	689+25														150		
	Rt.	696+50	699+00														250		
							* QUANTITIES IN THESE ROWS ARE 100% STATE PARTICIPATION													
NORMAL PART.				46,798.38	39,372.22		1523	780	43,207.22			255				6	800		
		MILES		8.86	7.46				8.18								0.15		
100% STATE				46,986.43	39,402.22		1683	780	46,132.22		65						800		
		MILES		8.90	7.46				8.74								0.15		
			LIN. FT.																
Totals carried to the General Summary →				Miles 17.76	Miles 14.92		3206	1560	Miles 16.92		65	255				6	0.30		

FED. DIV. 2 | STATE OHIO | PROJECT

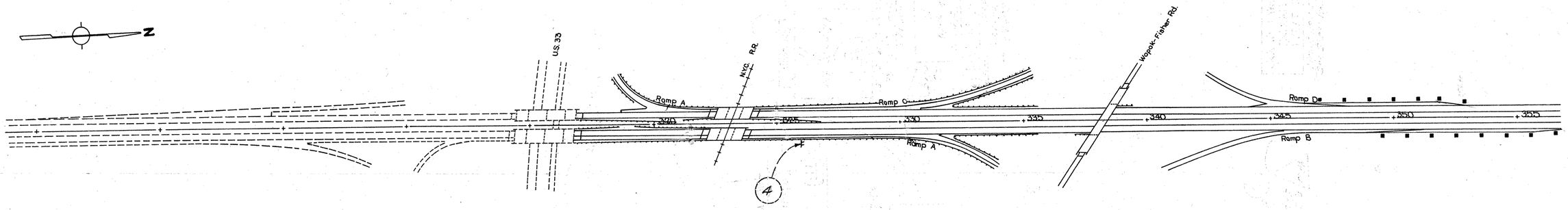
REALIGN COUNTY RDS-75-4.97

	BY	DATE
DETAILED	LGD	9-73
DETAILS CHECKED	WM	10-73
DETAILS REVISED		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

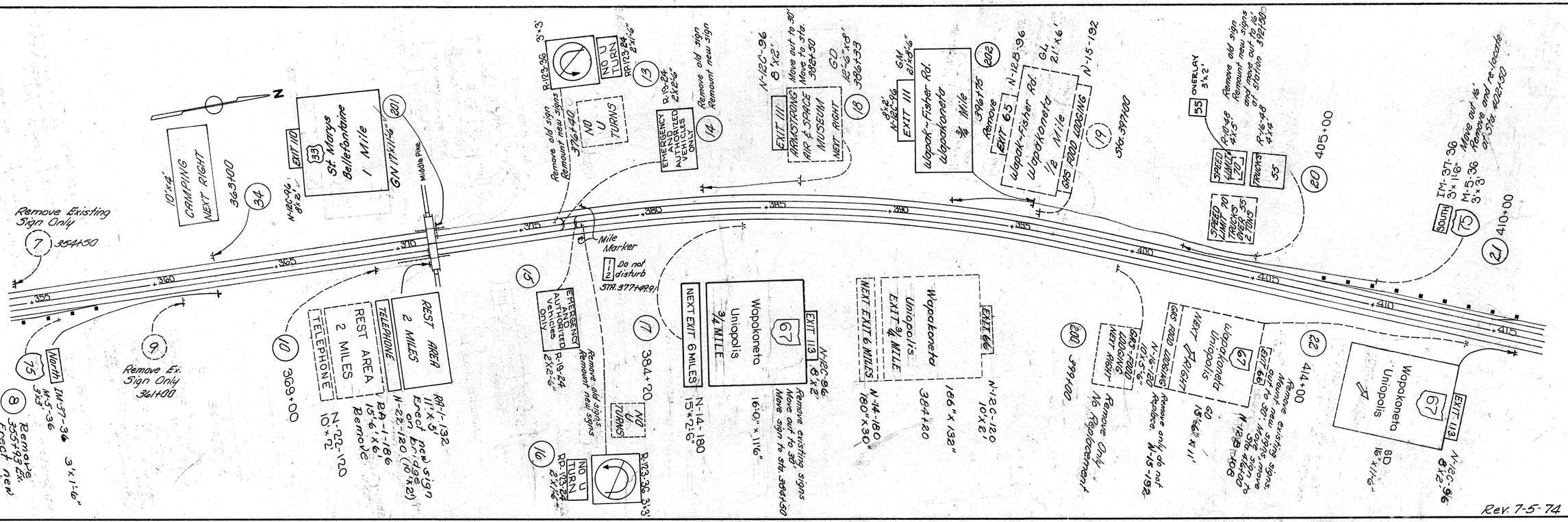
140
191

AUGLAIZE COUNTY
AUG.-75-4.97



FOR DETAILS SEE SHEET 141

FOR DETAIL OF INTERCHANGE SEE SHEET 142



Rev. 7-5-74

SIGN LAYOUT

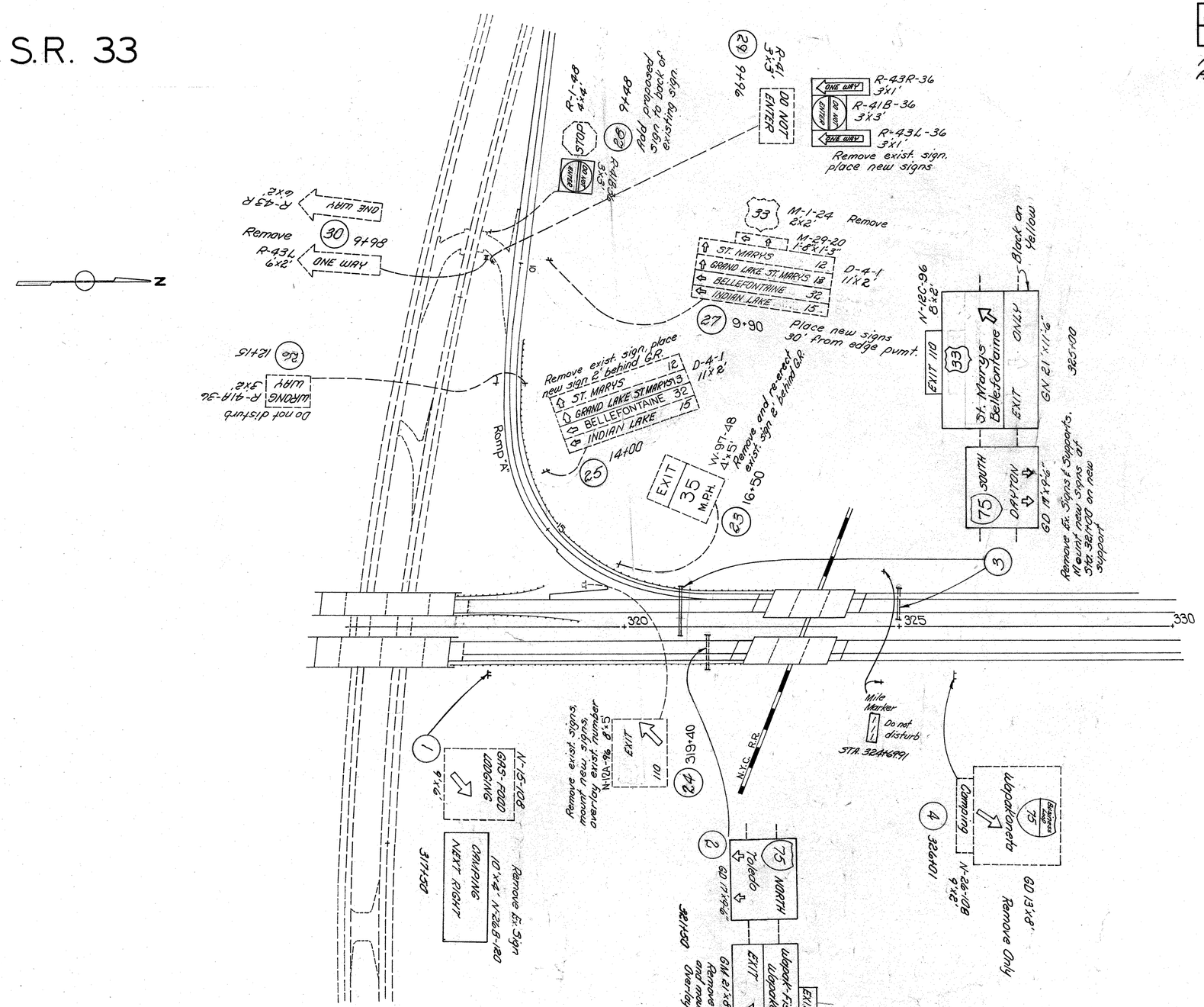
	BY	DATE
DETAILED	LGD	9-73
DETAILS CHECKED	WJH	10-73
DETAILS REVISED		

U.S.R. 33

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

141/191

AUGLAIZE COUNTY
AUG.-75-4.97



Rev. 7-5-74

SIGN LAYOUT U.S.R. 33

	BY	DATE
DETAILED	LGD	4-73
DETAILS CHECKED	WM	10-73
DETAILS REVISED		

WAPAK-FISHER RD.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

142
191

AUGLAIZE COUNTY
AUG.-75-4.97

N

Ramp "A"
Ramp "B"
Ramp "C"
Ramp "D"

325 330 335 340 345 350

SIGN LAYOUT WAPAK-FISHER RD.

	BY	DATE
DETAILED	LBD	9-73
DETAILS CHECKED	WM	10-73
DETAILS REVISED		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

143
191

AUGLAIZE COUNTY
AUG.-75-4.97

N

(63) 419+67
Remove YIELD
R-2-60 4'-6"x4'-6"x4'-6"
Ramp D
Ramp B
Ramp A
Ramp C
415 420 425 430 435 440 445 450 455 460 465 470 475
S.R.67
FOR DETAIL OF INTERCHANGE SEE SHEET 144
IM-38 2x1' Remove
M-3 2'x2' (64) 433+29
Replace exist. signs, Move to sta. 443+50
OVERLAY EXIT No. EXIT 113 67 Uniopolis Wapakoneta N-12C-96 8'x2' GD 18'x11'-6"
(66) 443+50
(65) 445+00
IM-38-36 3'x1'-6" M-5-36 3'x3' Remove and erect new signs at sta. 447+00
(75) NORTH
EMERGENCY AUTHORIZED Vehicles ONLY R-19-24 2'x2'-6" Replace exist. sign (69)
(70) Replace exist. sign with new signs
NO U TURN RP-123-36 18"x12" R-123-36 3'x3'
NO U TURNS
(71) 455+00
SPEED LIMIT 70 TRUCKS 55 R-10-48 4'x5' R-16-48 4'x4' Do not disturb
(67) Replace exist. sign with new signs
R-123-36 3'x3'
NO U TURNS
EMERGENCY AUTHORIZED Vehicles ONLY R-19-24 2'x2'-6" (68) Replace exist. sign
OVERLAY EXIT No. EXIT 113 67 Uniopolis Wapakoneta N-12C-96 8'x2' GB 18'x11'-6"
Replace exist. signs Move out to 30'±. Move to sta. 462+00
N-15-108 9'x4' Remove only do not replace
GAS-FOOD LODGING 1/2 MILE
(73) 460+00
(72) 463+50
REST AREA RA-3-132 11'x5'-0" Replace exist. sign Move out 30' Move to sta. 463+50
(74) 474+90
REST AREA RA-4-72 6'x5'6" Replace exist. sign

Rev. 7-5-74

Relocate at Sta. 481+00
W-49-48 4'x4' WP-49-18 2'x1' MERGE (76) 483+00
RA-4-72 9'x5'6" Replace exist. sign Move to sta. 488+80
REST AREA (77) 488+80
RA-3-132 11'x5' Replace exist. sign Move out 30' Move to sta. 503+80
REST AREA (78) 498+00
Rest Area
Rest Area
Mile Marker
Do not disturb
Sta. 483+08.91
480 485 490 495 500 505 510 515 520 525 530 535
(75) 485+00
MERGE WP-49-18 2'x1' W-49-48 4'x4'
Relocate at Sta. 487+50
(79) 502+00
Circleville 1 Mile 87 GH 10'x4'
Replace exist. sign Move to sta. 512+50
Hargister Rd.

SIGN LAYOUT

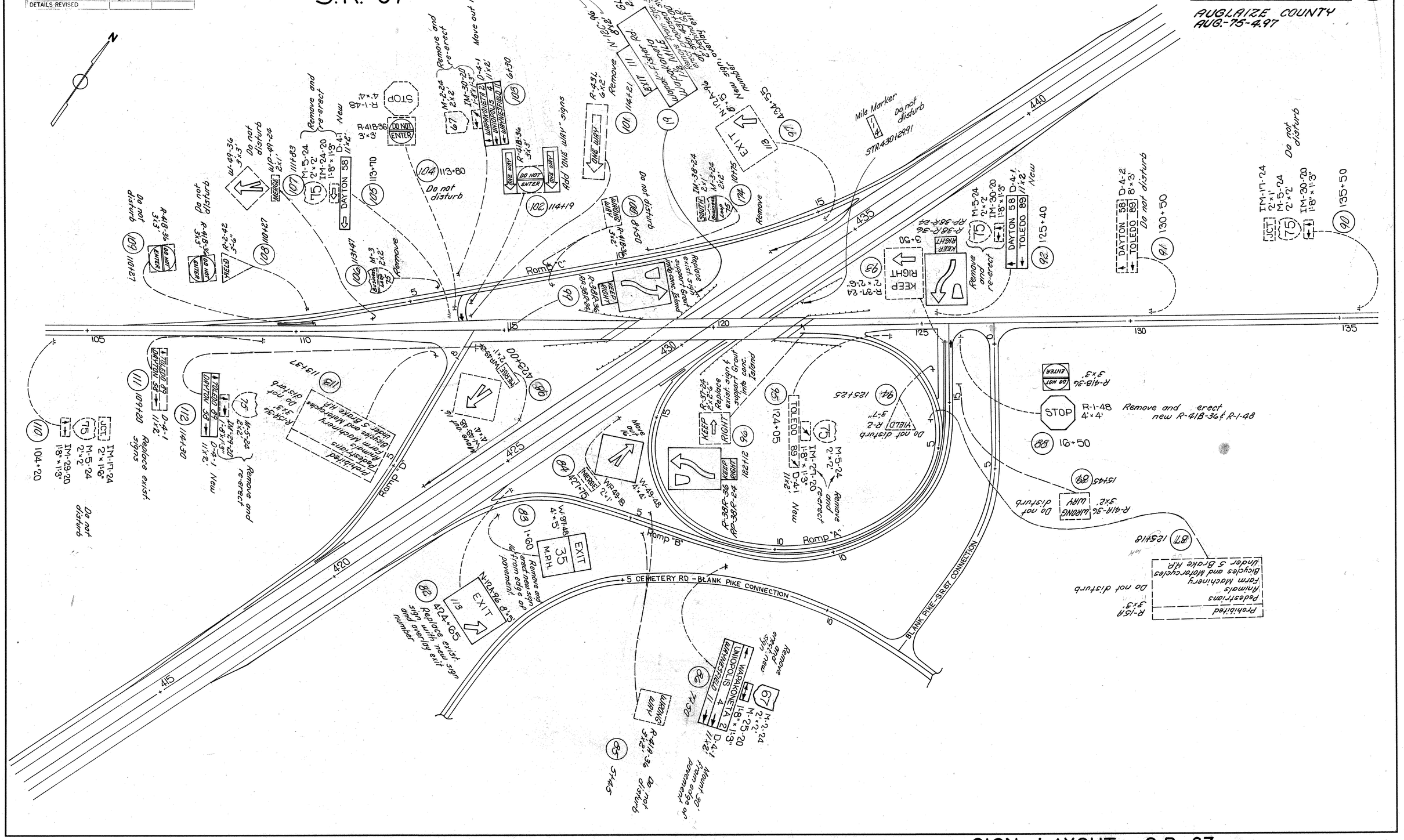
	BY	DATE
DETAILED	LGD	9-73
DETAILS CHECKED	WM	10-73
DETAILS REVISED		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

144
191

AUGLAIZE COUNTY
AUG.-75-4.97

S.R. 67



SIGN LAYOUT S.R. 67

	BY	DATE
DETAILED	LGD	4-73
DETAILS CHECKED	WJM	10-73
DETAILS REVISED		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

145
191

AUGLAIZE COUNTY
AUG.-75-4.97

N

Mile Marker
1-5
Do not disturb
STA. 535+89.91

+535 +540 +545 +550 +555 +560 +565 +570 +575 +580 +585 +590 +595

(114) 550+00
EMERGENCY STOPPING ONLY
R-43-48 4'×5'
Remove sign and supports

(115)
R-123-36 3'×3'
NO U TURN
RP-123-24 16"×2"
Replace exist. sign with new signs
NO U TURNS

(116)
R-19-24 2'×2'-6"
EMERGENCY AND AUTHORIZED VEHICLES ONLY
Replace exist. sign

(117)
R-19-24 2'×2'-6"
EMERGENCY AND AUTHORIZED VEHICLES ONLY
Replace exist. sign

(118)
R-123-36 3'×3'
NO U TURNS
NO U TURN
RP-123-24 16"×2"
Remove exist. sign and Replace with new signs

(119) 592+00

(120) 594+97
Slower Traffic Keep Right
R-35 4'×5'
Remove

REST AREA 2 MILES
RA-1-132 11"×42"
TELEPHONE
N-22-120 10"×2"
Replace exist. signs and move out to 30' Move to sta. 592+75

Mile Marker
1-6
Do not disturb
STA. 588+69.91

(121) 600+00
KEEP OFF MEDIAN
R-42-48 4'×5'
Remove sign and supports

Holden Rd

+595 +600 +605 +610 +615 +620 +625 +630 +635 +640 +645 +650 +655

Mile Marker
1-7
Do not disturb
STA. 641+49.91

(122) 649+20
Remove the existing wooden signs, the existing supports and the remains of the concrete foundations. Re-erect the salvaged sign at N-122 and Gt. signs as per plan. Sta. 649+50

(123)
EXIT 118
GL 15'6" × 6'
Remove

(124)
NEXT EXIT 3 MILES
N-14-180 15"×2'-6"
Remove

(125)
R-123-36 3'×3'
NO U TURN
RP-123-24 16"×2"
Replace exist. sign with new signs
NO U TURNS

(126)
R-19-24 2'×2'-6"
EMERGENCY AND AUTHORIZED VEHICLES ONLY
Replace exist. sign

(127)
R-19-24 2'×2'-6"
EMERGENCY AND AUTHORIZED VEHICLES ONLY
Replace exist. sign

(128)
R-123-36 3'×3'
NO U TURN
RP-123-24 16"×2"
Remove exist. sign and mount new signs
NO U TURNS

Rev. 7-5-74

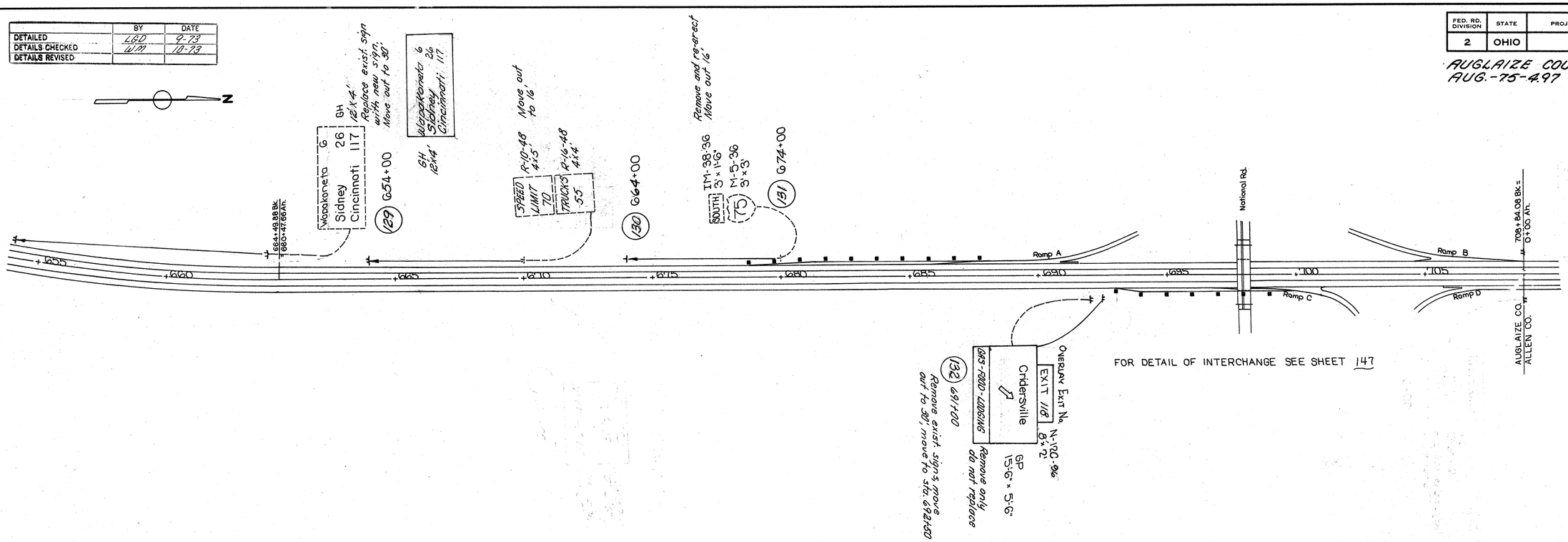
SIGN LAYOUT

	BY	DATE
DETAILED	LGD	9-73
DETAILS CHECKED	WM	10-73
DETAILS REVISED		

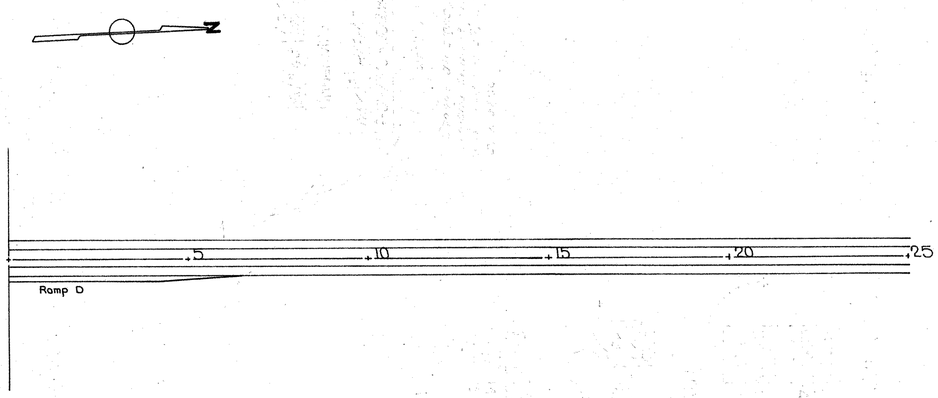
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

146/191

AUGLAIZE COUNTY
AUG.-75-4.97



FOR DETAIL OF INTERCHANGE SEE SHEET 147



NOTE: Delineators
The following quantities have been included in these plans to be used if and as directed by the Engineer:
Item 620 Delineators Type "A", post mounted 100 Each
Item 620 Delineators Type "D", post mounted 25 Each

TOTAL TO SIGNING SUMMARY

620
DELINEATOR TABLE

CODE	STATION TO STATION		SIDE	INTERVAL	TYPE "D" POST	TYPE "D" BRACKET
	Wapak.-Fisher & IR.-75					
620	346+87	352+87	Lt.	100'	7	
620	349+60	357+60	Rt.	100'	9	
	SR.-67 & IR.-75					
620	407+80	415+80	Lt.	100'	9	
620	416+15	423+15	Rt.	100'	8	
620	437+49	443+49	Lt.	100'	7	
620	437+63	441+63	Rt.	100'	5	
	IR.-75, Rest Area					
620	463+00	482+00	Lt.	100'	19	
620	463+50	467+50	Rt.	100'	5	
620	491+50	503+50	Lt.	100'	11	
620	485+50	505+50	Rt.	100'	20	
	National Rd. & IR.-75					
620	673+75	687+75	Lt.	100'	10	
620	693+00	699+00	Rt.	100'	5	2
Totals					115	2

SIGN LAYOUT

	BY	DATE
DETAILED	LGD	9-73
DETAILS CHECKED	WJM	10-73
DETAILS REVISED		

NATIONAL ROAD

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

147 / 191

AUGLAIZE COUNTY
AUG.-75-4.97

N

Rev. 7-5-74

SIGN LAYOUT NATIONAL ROAD

SIGN SUB-SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

148/191

AUGLAIZE COUNTY
AUG.-75-4.97

SHEET NO.		MARK NO.	LOCATION	SIDE	SIGN REFERENCE OR CODE NO.	SIZE	FLAT SHEET TYPE AS PER PLAN SQ. FT.	EXTRUSHEET TYPE AS PER PLAN SQ. FT.	FLAT SHEET OVERLAY AS PER PLAN SQ. FT.	REMOVE & RE-ERECT EXIST. GROUND MOUNTED SIGNS ON NEW YIELDING SUPPORTS SQ. FT.	EACH	OVERPASS STRUCTURE SIGN MOUNTED SUPPORT EACH	BREAKAWAY SIGN SUPPORT CONNECTIONS EACH	STRUCTURAL SUPPORT 4 LB POST LIN. FT.	STRUCTURAL SUPPORT 6 LB. BEAM LIN. FT.	STRUCTURAL SUPPORT STEEL BEAM 8 WF 17 L.F.	L.F.	STRUCTURAL SUPPORT STEEL BEAM 10 WF 21 L.F.	L.F.	L.F.	STRUCTURAL SUPPORT STEEL BEAM 12 WF 31 L.F.	L.F.	L.F.	CONCRETE FOR GROUND MOUNTED SIGN SUPPORT FOUNDATIONS FOUNDATION CU. YD	WIDTH	DEPTH	A	B	C	D	E	SIGN SUPPORTS REMOVED FOR STORAGE, TYPE A EACH	SIGN SUPPORTS REMOVED FOR STORAGE, TYPE B EACH	REMOVAL OF EXIST. MAJOR SIGN, AS PER PLAN EACH	REMOVAL OF EXIST. SIGNS, AS PER PLAN EACH	SIGN SUPPORTS REMOVED FOR STORAGE, TYPE C Each	TYPE 'O' DELINEATORS POST MOUNTED Each	OVERHEAD SIGN SUPPORT 816 #R.30-9 MOD Each
			I.R. 75																																		
141 E 158		1	317+50		N-15-108																																
					N-268-120	10'x4'		40*							20'	21'-6"	23'																2		1				
141 E 157		2	321+50	Rt.	GD	12'x9'																															
					GD	17'x10'-6"		178.5*																												1				
					N-12C-96	8'x2'																																	
																																			1			
					N-12C-96	8'x2'		16	7*																														
					GM	21'x6'																																
					GM	21'x9'-6"		199.5*																												1				
141 E 157		3	325+00	Lt	GD	12'x9'																															
					GN	21'x8'																														1		1		
					N-12C-96	8'x2'																																	
																																				1			
			321+00	Lt.	GD	17'x10'-6"		178.5*																															
					GN	21'x12'-6"		262.5*																															
					N-12C-96	8'x2'		16	7*																														
141 E 158		4	326+01	Rt.	GD	13'x8'																															
					N-26-108	9'x2'																																	
					No replacement for this removed sign																																	
142 E 158		5	332+62	Rt.	N-12C-96	8'x2'																															
					GD	2'x8'																																	
			323+50	Rt.	N-12C-96	8'x2'		16	7*																														
					GD	24'x9'-6"		228*																																
142 E 158		6	345+20	Rt.	R-2-60	5'																															
140 E 158		7	354+50	Lt.	N-12C-96	8'x2'																															
					GP	21'x5'-6"																																	
					N-26-108	9'x2'																																	
					No replacement for this removed sign																																	
140 E 158		8	355+93	Rt.	IM-37-36	3'x1'-6"																															
					M-5-36	3'x3'																																	
			362+50	Rt.	IM-37-36	3'x1'-6"		4.5*							18.5'																10'-0"		1'-6"						
					M-5-36	3'x3'		9*																									16'-0"	7'-0"	8'-6"	1'-6"					
140 E 158		9	361+00	Rt.	R-10-48	4'x5'																															
					R-16-48	4'x4'																																	
					No replacement for this removed sign																																	
140		34	363+00	Rt	N-268-120	10'x4'		40*							19'	19'																					
140 E 16A		10	369+00	Rt	RA-1-186	15'-6"x6'																															
					N-22-120	10'x2'																																	
					RA-1-132	11'x5'		55*			1																												
					N-22-120	10'x2'		20*																															
140 E 16A		201	370+16	Lt	N-12C-96	8'x2'		16	7*		1																										
					GN	17'x11'-6"		195.5*																															
140 E 16A		202	396+75	Lt	N-12C-96	8'x2'		16	7*																												
					GM	21'x8'-6"		178.5*				3				22'-6"	22'-9"	23'-0"		3.75	2'-6"	6'-9"	34'-0"	5'-0"	12'-0"	2.94'	7.56											
140 E 158		13	376+40	Med.	R-23-36	3'x4'																															
					R-123-36	3'x3'	9								17																								
					RP-123-24	2'x1'-6"	3																																
140 E 158		14	376+70	Med.	R-19-18	1'-6"x1'																															
					R-19-24	2'x2'-6"	5								14																								
140 E 158		15	377+30	Med.	R-19-18	1'-6"x1'																															
					R-19-24	2'x2'-6"	5								14																								
140 E 158		16	377+50	Med.	R-23-36	3'x4'																															
					R-123-36	3'x3'	9																																
					RP-123-24	2'x1'-6"	3								17																								
	* 100% State Participation						13.5	1576	35																													
	Normal Participation						340	80				2	3	28	155				68.25'		3.75										18	4	9	16	1	4	1	

SIGN SUB-SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

149/191

AUGLAIZE COUNTY
AUG.-75-4.97

SHEET NO.		MARK NO.	LOCATION	SIDE	SIGN REFERENCE OR CODE NO.	SIZE	FLAT SHEET TYPE AS PER PLAN SQ. FT.	EXTRUSHEET TYPE AS PER PLAN SQ. FT.	FLAT SHEET OVERLAY AS PER PLAN SQ. FT.	REMOVE & RE-ERECT EXIST. GROUND MOUNTED SIGNS ON NEW YIELDING SUPPORTS SQ. FT.		SPECIAL SIGN SUPPORT SA.5.0 EACH	BREAKAWAY SIGN SUPPORT CONNECTIONS EACH	STRUCTURAL SUPPORT 4 LB. POST LIN. FT.	STRUCTURAL SUPPORT 6 LB. BEAM LIN. FT.	STRUCTURAL SUPPORT STEEL BEAM 8 WF 17 L.F.	L.F.	L.F.	STRUCTURAL SUPPORT STEEL BEAM 10 WF 21 L.F.	L.F.	L.F.	STRUCTURAL SUPPORT STEEL BEAM 12 WF 31 L.F.	L.F.	L.F.	CONCRETE FOR GROUND MOUNTED SIGN SUPPORT FOUNDATIONS FOUNDATION CU. YD.	WIDTH	DEPTH	A	B	C	D	E	SIGN SUPPORTS REMOVED FOR STORAGE, TYPE A EACH	SIGN SUPPORTS REMOVED FOR STORAGE, TYPE B EACH	REMOVAL OF EXIST. MAJOR SIGN, AS PER PLAN EACH	REMOVAL OF EXIST SIGNS, AS PER PLAN EACH	REMOVE & RE-ERECT EXIST. GROUND MOUNTED SIGN ON NEW BREAKAWAY SUPPORTS SQ. FT.	TYPE "D" DELINEATORS POST MOUNTED EACH
140 & 158		17	384+20	Rt.	N-12C-120	10'x2'																															
			384+50	Rt.	N-12C-96	8'x2'		16	7*																													
			384+20	Rt.	GB	15'-6"x11'																																
			384+50	Rt.	GB	16'x11'-6"		184.5*					2										31'-3"	30'-8"	3.00	2'-6"	8'-3"	30'	8'-0"	17'-5"	3'-4"	8'-9"						
			384+20	Rt.	N-14-180	15'x2'-6"																																
			384+50	Rt.	N-14-180	15'x2'-6"		37.5*																														
140 & 158		18	382+50	Lt.	N-12C-96	8'x2'		16	7*					12'-0"																							
					GD	12'-6"x8'							2							22'-6"	24'-6"				2.50	2'-6"	6'-9"	30'	5'-0"	14'-0"	2'-9"	7'		2			100	
140 & 158		19	397+00	Lt.	N-12B-96	9'x2'																																
					GL	21'x6'																																
					N-15-192	16'x2'-6"																																
144			430+25	Lt.	N-12C-96	8'x2'		16	7*							19'-5"	21'-0"	22'-8"							3.50	2'-6"	5'-9"	14'-0"	7'	14'-0"	3'	7'-6"						
					GL	21'x6'		126*																														
140 & 158		20	405+00	Lt.	R-2-78	6'-6"x5'																												2		1		
			392+50	Lt.	R-10-48	4'x5'	20*		6*					23'-6"/23'-0"																	16'	11'	14'	0'-2"	2'-3"					
				Lt.	R-16-48	4'x4'	16*																																
140 & 158		21	410+00	Lt	IM-37-36	3'x1'-6"																												1	-	1		
					M-5-36	3'x3'																														1		
			402+50	Lt	IM-37-36	3'x1'-6"	4.5*								17																	16'	7'	9'	1'-6"					
					M-5-36	3'x3'	9*																																
140 & 158		22	414+00	Rt.	N-12B-108	9'x2'																												2		1		
					GD	15'-6"x11'																														1		
					N-15-192	16'x2'-6"																																
			416+00	Rt.	N-12C-96	8'x2'		16	7*															28'-5"	27'-5"												
					GD	16'x11'-6"		184*					2												3.00	2'-6"	8'-3"	30'	5'-0"	14'-5"	3'-5"	9'-2"						
143		63	419+67	Lt.	R-2-60		Removal Only																											1		1		
143		64	433+29	Lt.	IM-38-24	2'x1'	Removal Only																													1		
					M-3-24	2'x2'	Removal Only																													1		
143 & 158		65	445+00	Rt.	IM-38-36	3'x1'-6"																												1				
					M-5-36	3'x3'																																
			447+50	Rt	IM-38-36	3'x1'-6"				4.5					18																	16'	7'	11'	1'-6"					
					M-5-36	3'x3'				9																													
143 & 158		66	443+50	Lt.	N-12C-96	8'x2'		16	7*																									2		1		
			446+00	Lt.	GD	15'-6"x11'																																
			443+50	Lt.	GD	16'x11'-6"		184.0*					2										30'-5"	28'-5"	3.00	2'-6"	8'-3"	30'	5'-0"	16'-5"	3'-4"	8'-9"						
143 & 159		67	453+50	Med.	R-23-36	3'x4'																												1		1		
					R-123-36	3'x3'	9								16'-6"																	15'	7'	10'-6"	1'-6"					
					RP-123-36	2'x1'-6"	3																																
143 & 159		68	453+70	Med.	R-19-18	1'-6"x1'																												1		1		
					R-19-24	2'x2'-6	5								14																	24'	5'	9'-9"	1'-0"					2
143 & 159		69	454+30	Med.	R-19-18	1'-6"x1'																												1		1		
					R-19-24	2'x2'-6"	5								14																	24'	5'	9'-9"	1'-0"					2
143 & 159		70	454+60	Med.	R-23-36	3'x4'																												1		1		
					R-123-36	3'x3'	9								16'-6"																	15'	7'	10'-6"	1'-6"					
					RP-123-36	2'x1'-6"	3																																
143		71	455+00	Rt.	R-10-48	4'x5'	No Work Required																																
					R-16-48	4'x4'	No Work Required																																
143 & 159		72	467+80	Rt.	RA-3-138	11'-6"x4'-6"																												2		1		
			463+50		RA-3-138	11'x5'		55*							19 20 21																	30'	5'-0"	12'-3"	1'-6"	4'-0"					
140		200	393+00	Rt.	N-16-120	10'x5'-6"																												2		1		
					No Replacement for this Sign.																																		
			* 100% State Participation				49.5	771.0	41.0																														
			Normal Participation				34.0	80.0		13.5		8	40.0'	174.5'	63.08		47.0		176.58		15.0												10	15	8	14	100	4

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

150
191

AUGLAIZE COUNTY
AUG.-75-4.97

SIGN SUB-SUMMARY

SHEET NO.		MARK NO.	LOCATION	SIDE	SIGN REFERENCE OR CODE NO	SIZE	FLAT SHEET TYPE AS PER PLAN SQ FT	EXTR. SHEET TYPE AS PER PLAN SQ FT	FLAT SHEET OVERLAY "TYPE" AS PER PLAN SQ FT	REMOVE & RE-ERECT EXIST. GROUND MOUNTED SIGNS ON NEW YIELDING SUPPORTS SQ FT		BREAKAWAY SIGN SUPPORT CONNECTIONS EACH	STRUCTURAL SUPPORT 4 LB. POST LIN. FT.	STRUCTURAL SUPPORT GLB. BEAM LIN. FT.	STRUCTURAL SUPPORT STEEL BEAM 8 WF 17 L.F.			STRUCTURAL SUPPORT STEEL BEAM 10 WF 21 L.F.			STRUCTURAL SUPPORT STEEL BEAM 12 WF 31 L.F.			CONCRETE FOR GROUND MOUNTED SIGN SUPPORT FOUNDATIONS FOUNDATION CU. YD	WIDTH	DEPTH	A	B	C	D	E	SIGN SUPPORTS REMOVED FOR STORAGE, TYPE A EACH	SIGN SUPPORTS REMOVED FOR STORAGE, TYPE B EACH	REMOVAL OF EXIST. MAJOR SIGNS AS PER PLAN EACH	REMOVAL OF EXIST. SIGNS, AS PER PLAN EACH	DELINEATORS POST MOUNTED TYPE "D" EACH
143 & 159		73	469+80	Lt.	GB	15'-6"x11'																													1			
			469+80		N-15-108	9'x4'																																		
			460+00		GB	16'x11'-6"		184.0*				2																												
			460+00		N-12C-96	8'x2'		16	7*																															
143		74	474+90	Rt.	RA-4-78	6'x5'-6"																														2				
					RA-4-78	6'x5'-6"		33*						17'-6"/17'-6"																										
143		75	431+00	Rt.	W-49-48	4'x4'				16				17'-9"																					16'	7'	9'-6"	1'-5"	3'-8"					
			437+50	Rt.	WP-49-18	2'x1'				2																									12'	7'	11'-3"	2'-10"		1				
143		76	485+00	Lt.	W-49-48	4'x4'				16				17'-9"																					12'	7'	11'-3"	2'-10"		1				
			431+00	Lt.	WP-49-18	2'x1'				2																																		
143		77	487+70	Lt.	RA-4-72	6'x5'-6"																														2				
			488+80	Lt.	RA-4-72	6'x5'-6"		33*						17'-6"/17'-6"																					16'	7'	9'-6"	1'-5"	3'-8"					
143 & 159		78	498+00	Lt.	RA-3-132	11'x4'-6"																																						
			503+50	Lt.	RA-3-132	11'x5'		55*						19|19-6|20																					30'	5'-0"	12'-3"	1'-6"	4'-0"					
145		114	550+00	Rt.	R-43-48	4'x5'																																						
145 & 159		115	558+30	Med.	R-23-36	3'x4'																																						
					R-123-36	3'x3'	9																													15'	7'	10'-6"	8"	1'-8"					
					RP-123-36	2'x1'-6"	3							17																														
145 & 159		116	558+50	Med.	R-19-18	1'-6"x1'																																						
					R-19-24	2'x2'-6"	5							14																					24'	5'	9'-9"	1'		1				2
145 & 159		117	559+10	Med.	R-19-18	1'-6"x1																																						
					R-19-24	2'x2'-6"	5							14																					24'	5'	7'	1'		1				2
145 & 159		118	559+50	Med.	R-23-36	3'x4'																																						
					R-123-36	3'x2'	9																													15'	7'	10'-6"	8"	1'-8"					
					RP-123-36	2'x1'-6"	3							17																														
145 & 159		119	592+75	Lt.	RA-1-132	11'x5'		55*						21|21|21																					30'	7'-6"	12'-0"	1'-6"	4'-0"	2		1	1	
					N-22-120	10'x2'		20*																													5'-0"								
145		120	594+97	Lt.	R-35-48	4'x5'																														1				1				
145		121	600+00	Rt.	R-42-48	4'x5'																														1				1				
145 & 159		124	649+20	Rt.	N-12B-108	9'x2'																																		1				
					GL	15'-6"x6'																															2	1			1			
					N-14-180	15'x2'-6"																																						
			649+50	Rt.	N-12C-96	8'x2'		16	7*					18'-0"																													
					GL	16'x6'		96*				2																																	
145 & 159		125	653+30	Med.	R-23-36	3'x4'																																						
					R-123-36	3'x3'	9							17																														
					RP-123-36	2'x1'-6"	3																													15'	7'	10'-6"	8"	1'-8"					
145 & 159		126	653+70	Med.	R-19-18	1'-6"x1'																																						
					R-19-24	2'x2'-6"	5							14																					24'	5'	9'-9"	1'		1				2
145 & 159		127	654+30	Med.	R-19-18	1'-6"x1'																																						
					R-19-24	2'x2'-6"	5							14																					24'	5'	9'-9"	1'		1				2
145 & 159		128	654+60	Med.	R-23-36	3'x4'																																						
					R-123-36	3'x3'	9							17																														
					RP-123-36	2'x1'-6"	3																													15'	7'	10'-6"	8"	1'-8"					
146 & 159		129	654+00	Lt.	GH	16'x8'																																						
					GH	12'x4'		48						20'-0"|19'-5"																					30'	5'-0"	10'-0"	2.64'	6.72'			2	1	
146 & 159		130	664+00	Lt.	R-10-48	4'x5'				20				21'-2"|19'-8"																													
					R-16-43	4'x4'				16																											19'-0"	5'-0"	11'-4"	0'-2"	3'-8"			2		
146 & 159		131	674+00	Lt.	IM-38-36	3'x1'-6"				4.5				19'-6"																													
					M-5-36	3'x3'				9																											18'-0"	7'	11'-3"	1'-6"				1		
			* 100% State Participation					476.0	14																																			
			Normal Participation					68.0	80	85.5		4	74.0	394.4		42.83		52.00		5.5																		22	8	5	17	8

SIGN SUB-SUMMARY

SIGN SUB-SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

151/197

AUGLAIZE COUNTY
AUG.-75-4.97

SHEET NO.		MARK NO.	LOCATION	SIDE	SIGN REFERENCE OR CODE NO.	SIZE	FLAT SHEET TYPE AS PER PLAN SQ FT	EXTRUSHEET TYPE AS PER PLAN SQ FT	FLAT SHEET OVERLAY TYPE" AS PER PLAN SQ FT	REMOVE & RE-ERECT EXIST. GROUND MOUNTED SIGNS ON NEW YIELDING SUPPORTS SQ FT		OUND S.S. 18.26 DES 2 EACH	BREAKAWAY SIGN SUPPORT CONNECTIONS EACH	STRUCTURAL SUPPORT 4 LB. POST LIN. FT.	STRUCTURAL SUPPORT G1&B BEAM LIN. FT.	STRUCTURAL SUPPORT STEEL BEAM 8 WF 17 L.F.	L.F.	L.F.	STRUCTURAL SUPPORT STEEL BEAM 10 WF 21 L.F.	L.F.	L.F.	STRUCTURAL SUPPORT STEEL BEAM 12 WF 31 L.F.	L.F.	L.F.	CONCRETE FOR GROUND MOUNTED SIGN SUPPORT FOUNDATIONS FOUNDATION CU. YD.	WIDTH	DEPTH	A	B	C	D	E	SIGN SUPPORTS REMOVED FOR STORAGE, TYPE A EACH	SIGN SUPPORTS REMOVED FOR STORAGE, TYPE B EACH	REMOVAL OF EXIST. MAJOR SIGNS AS PER PLAN EACH	REMOVAL OF EXIST. SIGNS, AS PER PLAN EACH	REMOVE & RE-ERECT EXIST. GROUND MOUNTED SIGN ON NEW BREAKAWAY POSTS SQ.FT.	STRUCTURAL STEEL SIGN SUPPORT AS PER PLAN
146 1159		132	691+00	Rt.	N-12B-108	9'X2'																															
					GP	15'6"X56"																																	
					N-15-192	16'X2'6"																																	
			693+00	Rt.	N-12C-96	8'X2'		16	7*																														
					GP	16'X6"		96*					2		21'-0"	22'-0"									2.3	2'-6"	5'-9"	30'	5'-0"	14'-5"	3'-5"	8'-8"							
143 1160		70	502+00	Rt.	GH	12'X6'																															
			512+50	Rt.	GH	10'X4'		40				1																							2	1			
																																					1		
			INTERCHANGES																																				
			USR 33																																				
141		23	16+50 (A)	Lt.	W-97-48																																1			
					W-97-48	4'X5'					20			18'-6"																			16'	7'	9'-6"	2'				
141 1158		24	319+40	Lt.	N-12A-72	6'X5'																															2		1	
					N-12A-96	8'X5'		40	8*					16'/16'																			16'	6'	9'-6"	1'-9"	4'-6"			
141 1160		25	14+00 (A)	Lt.	D-4-1 (3)	11X2'(3)																															2		3	
					D-4-1 (4)	11X2'(4)		88*							22'-5"	24'-1"									2.3	2'-6"	5'-9"	14'-0"	6'-0"	14'-0"	2'-5"	6'-2"							
141		26	12+15 (A)	Rt&L	No Work To be Performed																																			
141 1160		27	9+90 (A)	Lt.	M-1-24	2'X2'																															2		1	
					M-29-20	1'-8"X1'-3"																																		1	
					D-4-1 (4)	11X2'(4)																																		4	
					M-1-24	2'X2'	4*								4'-0"																									
					M-29-20	1'-8"X1'-3"	2.1*																																	
					D-4-1 (4)	11X2'(4)		88*					2				26'-0"	24'-0"							2.5	2'-6"	6'-9"	33'-0"	5'-0"	15'-0"	2'-5"	6'-2"							
141 1160		28	9+48 (A)	Rt.	R-41B-36	3'X3'	9																																	
141		29	9+96 (A)	Rt.	R-41	3'X3'																															1		1	
					R-41B-36	3'X3'	9																																	14'-0"
					R-43R-36	3'X1'	3																																	
					R-43L-36	3'X1'	3																																	
141		30	9+98		R-43R	6'X2'																																1		
					R-43L	6'X2'																																1		1	
			WAPAK-FISHER ROAD																																				
142		31	3+50 (A)	Rt.	W-97-48	4'X5'					20			16																			12'	7'	9'-6"	2'		1		
142		32	332+20	Rt.	N-12A-72	6'X5'																															2		1	
					N-12A-96	8'X5'		40	8*					16/16																			16'	6'	9'-6"	1'-9"	4'-6"			

SIGN SUB-SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

152 / 197

AUGLAIZE COUNTY
AUG-75-4.97

SHEET NO.		MARK NO.	LOCATION	SIDE	SIGN REFERENCE OR CODE NO.	SIZE	FLAT SHEET TYPE AS PER PLAN SQ. FT.	EXTRUSHEET TYPE AS PER PLAN SQ. FT.	FLAT SHEET OVERLAY "TYPE" AS PER PLAN SQ. FT.	REMOVE & RE-ERECT EXIST. GROUND MOUNTED SIGNS ON NEW YIELDING SUPPORTS SQ. FT.		BREAKAWAY SIGN SUPPORT CONNECTIONS EACH	STRUCTURAL SUPPORT 4 LB. POST LIN. FT.	STRUCTURAL SUPPORT 6 LB. BEAM LIN. FT.	STRUCTURAL SUPPORT STEEL BEAM 8 WF 17 L.F.	STRUCTURAL SUPPORT STEEL BEAM 10 WF 21 L.F.	STRUCTURAL SUPPORT STEEL BEAM 12 WF 31 L.F.	CONCRETE FOR GROUND MOUNTED SIGN SUPPORT FOUNDATIONS CU. YD.	WIDTH	DEPTH	A	B	C	D	E	SIGN SUPPORTS REMOVED FOR STORAGE, TYPE A EACH	SIGN SUPPORTS REMOVED FOR STORAGE, TYPE B EACH	REMOVAL OF EXIST. MAJOR SIGN AS PER PLAN EACH	REMOVAL OF EXIST SIGNS, AS PER PLAN EACH	REMOVE & RE-ERECT EXIST. GROUND MOUNTED SIGN ON NEW BREAKAWAY POSTS SQ. FT.
			WAPAK-FISHER ROAD																												
142		33	6+00 (A)	Rt.	D-4-1 (2)	11'x2'(2)																					2			2	
			6+50 (A)	Rt.	D-4-1 (3)	11'x2'(3)		66*					21-5	22.22-5							30'	5'-0"	13'5"	1'-6"	4'-0"					
142		35	6+50 (A)	R&L	R-4|A-36						6															1				
142		36	872+50	Lt.	R-2-43	No Work Required																									
142		37	8+30 (A)	Lt.	R-43R-36	3'x1' 3	Mount on existing R-31B-36 sign and post																								
					R-43L-36	3'x1' 3																									
142		38	872+80	Rt.	M-5-24	2'x2'																								1	
					IM-24-20	1'8"x1'3"																								1	
					D-4-1																									
					M-5-24	2'x2' 4*							5'7"														2				
					IM-24-20	1'8"x1'3" 2.1*																								1	
					D-4-1	11'x2' 22*								15'5"/16'5"							30'	6'-0"	12'-0"	2'-5"	6'-2"					
142		39	8+40 (A)	Rt.	R-1-48	No Work Required																									
					R-41B-36	No Work Required																									
142		40	878+50	Lt.	IM-17-24	2'x1'																								1	
					M-5-24	2'x2'																								1	
					IM-17-24	2'x1' 2*	Mount new signs on existing post																									
					M-5-24	2'x2' 4*																									
142		41	873+45	Lt.	M-5-24	2'x2'																								1	
					IM-31-20	1'8"x1'3"																								1	
					D-4-1 (2)	11'x2'(2)																					2			2	
					M-5-24	2'x2' 4*							7'-7"																		
					IM-31-20	1'8"x1'3" 2.1*																									
					D-4-1 (2)	11'x2'(2)		44*						17'1/17'							18'	7'	10'-0"	2'-5"	6'-2"					
142		42	6+00 (B)	Rt.	R-15A-36	3'x3'					9		15'								16'	7'	8'-6"	1'-6"		1				
142		43	5+50 (B)	Rt.	R-44L	2'x2'-6"																								1	
					R-43L-36	3'x1' 3*	Mount new sign on existing post																									
142		44	872+89	Lt.	M-5-24	2'x2'																								1	
					IM-24-20	1'8"x1'3"																								1	
					N-5-30	2'-6"x1'-6"	Re-mount existing sign on existing post															7'		1'-3"							
142		203	344+40	Lt.	N-12A-72	6'x5'																					2			1	
					N-12A-96	8'x5'		40 8*						16'/16'							16'	6'	9'-6"	1'-9"	4'-6"					
142		45	342+00 (75)	Rt.	W-49-48	4'x4'					16			17'-9"							16'	7'	9'-6"			1				
					WP-49-24	2'x1'					2																				
142/157	5-4-20	46	344+40	Lt.	N-12B-108	9'x2'																								1	
					GM	21'x8'																								1	
					N-12B-108	9'x2'																								1	
					GD	17'x10'																									
			346+40	Lt.	N-12C-96	8'x2'		16 7*																							
Clare Hall					GM	17'x12'-6"		212.5*																							
Clare Shirell					N-12C-96	8'x2'		16 7*																							
					GD	20'x7'		140*																							
142		47	3+50 (D)	Rt.	W-97-48	4'x5'					20		18'-6"								16'	7'	10'	2'		1				
142		48	6+00 (D)	Rt.	D-4-1 (2)	8'x1'-6"(1)																					2			2	
			6+65 (D)	Rt.	D-4-1 (3)	11'x2'(3)		66*				2		22'-0" 24'0"					2.3	2'-6" 5'-9"	16'	7'	15'	2'-5"	6'-2"					
142		49	6+65 (D)	R&L	R-41A-36						6															1				
142		50	8+40 (D)	Rt.	R-1-48	No Work Required																									
					R-41B-36	No Work Required																									
142		51	9+30 (D)	Lt.	R-43R-36	3'x1' 3	Mount on existing R-31B-36 sign and post																								
					R-43L-36	3'x1' 3																									
			* 100% State Participation				21.2	550.5	220.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Normal Participation				12	72	—	59.0	-	-	2	46.66'	181.42	46	-	-	-	-	-	-	2.3	-	-	1	-	-	-	-	15	-	2	19

SIGN SUB-SUMMARY

SIGN SUB-SUMMARY

SHEET NO.		MARK NO.	LOCATION	SIDE	SIGN REFERENCE OR CODE NO.	SIZE	FLAT SHEET TYPE AS PER PLAN SQ. FT.	EXTRUSHEET TYPE AS PER PLAN SQ. FT.	FLAT SHEET OVERLAY "TYPE" AS PER PLAN SQ. FT.	REMOVE & RE-ERECT EXIST. GROUND MOUNTED SIGNS ON NEW YIELDING SUPPORTS SQ. FT.		O.H. S.S. 18.26 Design 4 EACH	BREAKAWAY SIGN SUPPORT CONNECTIONS EACH	STRUCTURAL SUPPORT 4 LB. POST LIN. FT.	STRUCTURAL SUPPORT 6 LB. BEAM LIN. FT.	STRUCTURAL SUPPORT STEEL BEAM 8 WF 17 L.F.	L.F.	L.F.	STRUCTURAL SUPPORT STEEL BEAM 10 WF 21 L.F.	L.F.	L.F.	STRUCTURAL SUPPORT STEEL BEAM 12 WF 31 L.F.	L.F.	L.F.	CONCRETE FOR GROUND MOUNTED SIGN SUPPORT FOUNDATIONS FOUNDATION CU. YD.	WIDTH	DEPTH	A	B	C	D	E	SIGN SUPPORTS REMOVED FOR STORAGE, TYPE A EACH	SIGN SUPPORTS REMOVED FOR STORAGE, TYPE B EACH	REMOVAL OF EXIST. SIGNS WHERE VIS. MASTER PLAN EACH	REMOVAL OF EXIST. SIGNS AS PER PLAN EACH	REMOVE & RE-ERECT EXIST. GROUND MOUNTED SIGN ON NEW BREAKAWAY POSTS SQ. FT.
			WAPAK-FISHER ROAD																																		
142		52	864+34	Lt.	R-43L-72	6'x2'																													1	
					R-43R-72	6'x2'																													1	
142		53	864+30	Lt.	M-5-24	2'x2'																													1	
					IM-24-20	1'-8"x1'-3"																													1	
					D-4-1	8'x1'-6"																													1	
					M-5-24	2'x2' 4*									6																		2			
					IM-24-20	1'-8"x1'-3" 2.1*																															
					D-4-1	11'x2' 22*										16	16													16'	7'	10'-0"	2'-5"	6'-2"				
142		54	864+45	Rt.	N-5-30	2'6"x1'6"	No Work Required																														
142		55	859+50	Rt.	IM-17-24	2'x1'	No Work Required																														
					M-5-24	2'x2'	No Work Required																														
					IM-31-20	1'-8"x1'-3"	No Work Required																														
142		56	4+30(C)	Lt.	M-5-24	2'x2'																													1	
					IM-31-20	1'-8"x1'-3"																													1	
					D-4-1 (2)	8'x3' (2)																													2	
					M-5-24	2'x2' 4*									6																		2			
					IM-31-30	2'6"x2' 5*																															
					D-4-1 (2)	11'x2' (2) 44*										17	18													11'	7'	10'	2'-5"	6'-2"				
142		57	864+40	Rt.	R-2-43		No Work Required																														
142		58	866+95	Rt.	R-10-24	2'x2'-6"																													1	
					R-10-24	2'x2'-6" 5*									14'-6"															16'	7'	8'-3"	1'					
142		59	5+55(C)	Rt.	R-23-30	2'-6"x3'																													1	
					R-43L-36	3'x1' 3*	Erect on existing support																															
142		60	6+00(C)	Rt.	R-15A-36	3'x3'	No work required																														
142/161		61	332+00	Lt.	W-49-48	4'x4'											16												16'	7'	9'-6"	2'-10"		1			
					WP-49-24	2'x1'											2																				
142		62	339+35	Lt	GP	23'x6'-6"						1			149.5*																			3	1		
					N-12C-96	8'x2'									16 7*																						
144		82	424+65	Rt.	N-12A-96	8'x5'																													1		
					N-12A-96	8'x5'									40 8*														16'/16'-6"								
144		83	1+60(B)	Rt.	W-97-48	4'x5'																													1		
					W-97-48	4'x5' 20*																							18'-0"	16'	7'	10'-5"	2'				
144		84	427+75	Rt.	W-49-48	4'x4'											16												18'-5"	16'	7'	10'-0"	2'-10"		1		
					WP-49-18	2'x1'											2																				
144		85	5+45(B)	Rt. & Lt.	R-41A-36	3'x2'	NO WORK REQUIRED																														
144		86	7+50(B)	Rt.	M-2-24	2'x2'																													1		
					M-25-20	1'-8"x1'-3"																													1		
					D-4-1 (3)	11'x2' (3)																													2	3		
					M-2-24	2'x2' 4*									6																						
					M-25-20	1'-8"x1'-3" 2.1*																															
					D-4-1 (3)	11'x2' (3) 66*						2					20	17										2.3	2'-6"	5'-9"	30'	7'	13'	2'-5"	6'-2"			
144		87	126+18	Rt.	R-15A-36	3'x3'	No Work Required																														
144		88	16+50(B)	Rt.	R-1-48	4'x4'																													1		
					R-1-48	4'x4' 16*																															
					R-41B-36	3'x3' 9										17														12'	7'	10'	2'					
144		89	15+45(B)	Rt.	R-41A-36	3'x2'	No Work Required																														
					* 100 % State Participation		65.2	281.5	15.0																													
					Normal Participation		90	56.0	-	36.0		1	2	32.5	170.66	37.0										2.3								11	6	2	18	

SIGN SUB-SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

154/191

AUGLAIZE COUNTY
AUG.-75-4.97

SHEET NO.		MARK NO.	LOCATION	SIDE	SIGN REFERENCE OR CODE NO.	SIZE	FLAT SHEET TYPE AS PER PLAN SQ FT	EXTRUSHEET TYPE AS PER PLAN SQ FT	FLAT SHEET OVERLAY "TYPE" AS PER PLAN SQ FT	REMOVE & RE-ERECT EXIST. GROUND MOUNTED SIGNS ON NEW YIELDING SUPPORTS SQ. FT.		BREAKAWAY SIGN SUPPORT CONNECTIONS EACH	STRUCTURAL SUPPORT 4 LB POST LIN. FT.	STRUCTURAL SUPPORT 6 LB. BEAM LIN. FT.	STRUCTURAL SUPPORT STEEL BEAM 8 WF 17 L.F.		STRUCTURAL SUPPORT STEEL BEAM 10 WF 21 L.F.		STRUCTURAL SUPPORT STEEL BEAM 12 WF 31 L.F.		CONCRETE FOR GROUND MOUNTED SIGN SUPPORT FOUNDATIONS FOUNDATION CU YD	WIDTH	DEPTH	A	B	C	D	E	SIGN SUPPORTS REMOVED FOR STORAGE, TYPE A EACH	SIGN SUPPORTS REMOVED FOR STORAGE, TYPE B EACH	REMOVAL OF EXIST. MAJOR SIGNS AS PER PLAN EACH	REMOVAL OF EXIST. SIGNS AS PER PLAN EACH	REMOVE & RE-ERECT EXIST. GROUND MOUNTED SIGN ON NEW BREAKAWAY POSTS SQ. FT.
			State Route 67																															
144		90	135+50	Lt.	IM-17-24	2'x1'	No Work Required																											
					M-5-24	2'x2'	No work required																											
					IM-30-20	1'8"x1'3"	No work required																											
144		91	130+50	Lt.	D-4-1 (2)	8'x1'-6"(2)	No Work Required																											
144		92	125+40	Lt.	M-5-24	2'x2'				4																								
					IM-30-20	1'8"x1'3"				2.1																								
					D-4-1 (2)	8'x1'-6"(2)																												
					D-4-1 (2)	11'x2'(2)		44 *					18'|19'|20'															30'	7'	12'-0"	2'-5"	6'-2"	2		2	
144		93	3+50 (A)	Lt.	R-37-24	2'x2'-6"																												
					R-38R-36	3'x4'	12*						16'															18'	7'	13'-6"			1		1	
					RP-38R-24	2'x1'-6"	3*																												
144		94	125+25	Rt.	R-2		No Work Required																											
144		95	124+05	Rt.	M-5-24	2'x2'				4																								
					IM-27-20	1'8"x1'3"				2.1																								
					D-4-1	8'x1'-6"																												
					D-4-1	11'x2"		22*					19'/19'													30'	7'	9'-6"	2'-5"	6'-2"	2		1		
144		96	122+12	℄	R-37-24																											1		1	
					R-38R-36	3'x4'	12*						16'													1'	7'	3'-6"	2'						
					RP-38R-24	2'x1'-6"	3*																												
144		97	434+55	Lt.	N-12A-72	6'x2'																												
					N-12A-96	8'x5'		40	8*				16'/17'													14'	6'	15'-6"	1'-9"	4'-6"	2		1		
144		98	423+00	Lt.	W-49-48	4'x4'				16			17'-9"													16'	7'	12'	2'-10"		1				
144		99	115+10	℄	WP-49-24	2'x1'				2																								
					R-37-24	2'x2'-6"																												
					R38R-36	3'x4'	12*						16'													0'-2"	7'	8'-3"	2'-5"		1		1		
					RP-38R-24	2'x1'-6"	3*																												
144		100	8+50 (C)	Rt & L	R-41B-36	3'x2'	No Work Required																											
144		101	114+21	Lt.	R-43L																											1		1	
		102	114+19	Lt.	R-43R-36	3'x1'	3	Mount on Ex. R-41B-36 and support																											
					R-43L-36	3'x1'	3																												
144		103	6+30 (C)	Lt.	M-2-24	2'x2'				4				6'-8"																				
					IM-30-20	1'8"x1'3"				2.1																									
					D-4-3	8'x4'-6"																													
					D-4-3	11'x2(3)		66*			8			21'-4" 23'-4"				2.3	2'-6"	5'-9"	16'	5'	14'-5"	2'-5"	6'-2"	2				3			
144		104	113+80	Lt.	R-1-48	4'x4'	No Work Required																											
					R-41B-36	3'x3'																													
144		105	113+70	Lt.	M-5-24	2'x2'				4				5'-7"																				
					IM-24-20	1'8"x1'3"				2.1																									
					D-4-1	8'x1'-6"																													
					D-4-1	11'x2"		22*						15'-5" 16'-5"													30'	7'	10'-5"	2'-5"	6'-0"	2		1		
144		106	113+47	Lt.	M-3-24	2'x2'																											1		1	

SIGN SUB-SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

155/191

AUGLAIZE COUNTY
AUG-75-4.97

SHEET NO.		MARK NO.	LOCATION	SIDE	SIGN REFERENCE OR CODE NO.	SIZE	FLAT SHEET TYPE AS PER PLAN SQ. FT.	EXTRUSHEET TYPE AS PER PLAN SQ. FT.	FLAT SHEET OVERLAY "TYPE" AS PER PLAN SQ. FT.	REMOVE & RE-ERECT EXIST. GROUND MOUNTED SIGNS ON NEW YIELDING SUPPORTS SQ. FT.		BREAKAWAY SIGN SUPPORT CONNECTIONS EACH	STRUCTURAL SUPPORT 4 LB. POST LIN. FT.	STRUCTURAL SUPPORT 6 LB. BEAM LIN. FT.	STRUCTURAL SUPPORT STEEL BEAM 8 WF 17 L.F.			STRUCTURAL SUPPORT STEEL BEAM 10 WF 21 L.F.			STRUCTURAL SUPPORT STEEL BEAM 12 WF 31 L.F.			CONCRETE FOR GROUND MOUNTED SIGN SUPPORT FOUNDATIONS FOUNDATION CU. YD.	WIDTH	DEPTH	A	B	C	D	E	SIGN SUPPORTS REMOVED FOR STORAGE, TYPE A EACH	SIGN SUPPORTS REMOVED FOR STORAGE, TYPE B EACH	REMOVAL OF EXIST. MTOR SIGN/SPER PLAN EACH	REMOVAL OF EXIST. SIGNS, AS PER PLAN EACH	REMOVE & RE-ERECT EXIST. GROUND MOUNTED SIGN ON NEW BREAKAWAY POSTS SQ. FT.
			State Route 67																																			
144		107	111+83	Lt.	W-49-36	3'x3'	No Work Required																															
					WP-49-24	2'x1'																																	
144		108	110+27	Lt.	R-2-42	3'-6"	No Work Required																															
					R-41B-36	3'x3'																																	
144		109	110+27	Lt.	R-41B-36	3'x3'	No Work Required																															
144		110	104+20	Rt.	IM-17-24	2'x1'-6"	No Work Required																															
					M-5-24	2'x2'																																	
					IM-29-20	1'-8"x1'-3"																																	
144		111	109+20	Rt.	D-4-1 (2)	8'x1'-6"																																	
					D-4-1 (2)	11"x2" (2)		44*						19'-6" | 18'-6"																30'	5'-0"	11'-5"	2'-5"	6'-2"	2			2	
144		112	114+30	Rt.	M-5-24	2'x2'				4			6																									
					IM-29-20	1'-8"x1'-3"				2.1																													
					D-4-1 (2)	8'x1'-6"																																	
					D-4-1 (2)	11"x2" (2)		44*						17'-6" | 17'-6"																30'	7'	18'-0"	2'-5"	6'-2"	2			2	
144		113	113+37	Rt.	R-15A-36	3'x3'	No Work Required																															
144		174	10+80 (C)	Rt.	IM-38-24	2'x1'																															1			1	
					M-3-24	2'x2'																																	1		
			National Road																																					
147		138	3+85 (C)	Rt.	W-37-48	4'x5'				20			18'6																16'	7'	3'-6"	2'		1				
147		139	701+40	Rt.	N-12A-72	6'x5'																															2		1	
					N-12A-96	8'x5'		40	8*					17'. 17'																12'	6'	9'-6"	1'-9"	4'-6"					
147		140	704+00	Rt.	W-49-48	4'x4'				16			20																16'	7'	9'	2'-5"		1				
					WP-49-24	2'x1'				2																														
147		149	694+00	Lt.	W-49-24	4'x4'				16			28																24'	7'	9'	2'-5"		1				
					WP-49-24	2'x1'				2																														
147		150	690+76	Lt.	R-2	4'x6'																															1		1	
147		151	1+35 (D)	Lt.	D-4-1 (2)	8'x3'																															2		2	
					D-4-1 (2)	11"x2 (2)		44*					2		18	18													2.3	2'-6"	5'-9"	1'	7'	9'	2'-5"	6'-2"				
147		152	0+30 (D)	Lt.	R-43R-36	3'x1'	3	} Mount on existing R-1-48 & R-41B-36 signs and post																																
					R-43L-36	3'x1'	3																																	
147		153	14+50	Lt.	R-2																																1		1	
			14+50	Lt.	R-41B-36	3'x3'	9						15																7'-6"	7'	8'-5"	1'-6"						
					* 100% State Participation			132.0	8.0	-																														
					Normal Participation		15.0	40.0		62.1		2	21.0	173.5	36.0												2.3										14		11	

SIGN SUB-SUMMARY

SIGN SUB-SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

156 / 191

AUGLAIZE COUNTY
AUG-75-4.97

SHEET NO.		MARK NO.	LOCATION	SIDE	SIGN REFERENCE OR CODE NO.	SIZE	FLAT SHEET TYPE AS PER PLAN SQ. FT.	EXTRUSHEET TYPE AS PER PLAN SQ. FT.	SQ. FT.	REMOVE & RE-ERECT EXIST. GROUND MOUNTED SIGNS ON NEW YIELDING SUPPORTS SQ. FT.		EACH	BREAKAWAY SIGN SUPPORT CONNECTIONS EACH	STRUCTURAL SUPPORT 4 LB. POST LIN. FT.	STRUCTURAL SUPPORT 6 LB. BEAM LIN. FT.	STRUCTURAL SUPPORT STEEL BEAM B WF 17 L.F.	L.F.	L.F.	STRUCTURAL SUPPORT STEEL BEAM 10 WF 21 L.F.	L.F.	L.F.	STRUCTURAL SUPPORT STEEL BEAM 12 WF 31 L.F.	L.F.	L.F.	CONCRETE FOR GROUND MOUNTED SIGN SUPPORT FOUNDATIONS FOUNDATION CU. YD.	WIDTH	DEPTH	A	B	C	D	E	SIGN SUPPORTS REMOVED FOR STORAGE, TYPE A EACH	SIGN SUPPORTS REMOVED FOR STORAGE, TYPE B EACH	REMOVAL OF EXIST. MAJOR SIGN, AS PER PLAN EACH	REMOVAL OF EXIST. SIGNS, AS PER PLAN EACH	REMOVE & RE-ERECT EXIST. GROUND MOUNTED SIGN ON NEW BREAKAWAY POSTS SQ. FT.
			National Road																																		
		154	12+17 Nat. Rd.	Lt.	R-37A-24	2'X2'6"																												1			1	
147			R-38B-24		R-38B-24	2'X2'6"	5.0*																																
			RP-38B-24		RP-38B-24	2'X1'6"	3.0*							14															0'	7.0'	8.25'	1.0'						
147		155	21+00	Lt.	IM-17-24	2'X1'	No	Work	Required																														
					M-5-24	2'X2'	No	Work	Required																														
					IM-29-20	1'-8"X1'-3"	No	Work	Required																														
147		156	0+50 (D)	Lt.	R-37-24	2'X2'-6"																												1			1	
					B-38R-24	2'X2'-6"	5.0*																																
					RP-38R-24	2'X1'-6"	3.0*																								0'	7.0'	8.25'	1.0					
147		157	0+70 (D)	Rt	R-15A-36	3'X3'	No	work	required																														
147		159	7+00 (C)	Rt+Lt	R-41A-36	3'X2'	No	work	required																														
147		160	3+50 (B)	Rt.	D-4-1	8'X3'																												2			2	
					D-4-1 (2)	11'X2'(2)		44.*							20/20														16'	7.0'	8.5'	2.42'	6.16'					
147		161	0+45 (B)	Rt.	R-1-48	4'X4'	No	Work	Required																														
					R-31B-36	3'X3'	No	Work	Required																														
147		162	8+45 Nat. Rd.	Rt.	M-5-24	2'X2'																																
					IM-29-20	1'-8"X1'-3"										4																						
					D-4-2	8'X3'										2.1																						
					D-4-1 (2)	11'X2'(2)		44*																						30'	7.0'	15'	2.42'	6.16'				2	
		167	0+70 (B)	Rt	R-43E-36	3'X1'	3.0	} Mount on existing R-41B-36 Support							16'-6"	15'-6"																						
					R-43L-36	3'X1'	3.0																																
147		163	8+20 (A)	Lt.	R-15A-36	3'X3'	No	Work	Required																														
147		164	8+86 Nat. Rd.	℄	R-37A-24	2'X2'-6"																												1			1	
					R-38B-24	2'X2'-6"	5.0*																																
					RP-38B-24	2'X1'-6"	3.0*							14															0'	7.0'	8.25'	1.0'						
147		165	10+17 Nat. Rd.	Rt.	R-9-18	1'-6"X2'																												1			1	
147		166	14+70 Nat. Rd.	Rt.	R-36-30	2'-6"X3'																												1			1	
					R-36-30	2'-6"X3'	7.5*							16															16'	7.0'	8.5'	1.25'						
147		168	8+44 Nat. Rd.	Lt.	R-43L-72	6'X2'																															1	
					R-43L-36	3'X1'	3*	PLACE ON EXISTING POST																															
					R-43R-72	6'X2'																															1	
					R-43R-36	3'X1'	3*	PLACE ON EXISTING POST																															
147		170	7+90 Nat. Rd.	Lt.	M-5-24	2'X2'										4																						
					IM-24-20	1'-8"X1'-3"										2.1																						
					D-4-1	8'X1'-6"																												2			1	
					D-4-1	11'X2'		22*							16'-6"	18'-6"													12'	7.0'	9'-6"	2.42'	6.16'					
147		171	17+10 Nat. Rd.	Rt.	M-5-24	2'X2'										4																						
					IM-24-20	1'-8"X1'-3"										2.1																						
					D-4-1	8'X1'-6"																												2			1	
					D-4-1	11'X2'		22*							19'-6"	21'-6"													16'	7.0'	15'	2.42'	6.16'					
147		173	16+60 Nat. Rd.	Rt.	M-5-24	2'X2'										4																						
					IM-29-20	1'-8"X1'-3"										2																						
					D-4-2	8'X3'																												2			2	
					D-4-1 (2)	11'X2'(2)		44*							19'-0"	19'-0"													16'	7.0'	10'	2.42'	6.16'					
			* 100% State Participation				37.5	176.0																														
			Normal Participation				6.0			24.3				44.0'	186.0'																		13			15	

SIGN SUB-SUMMARY

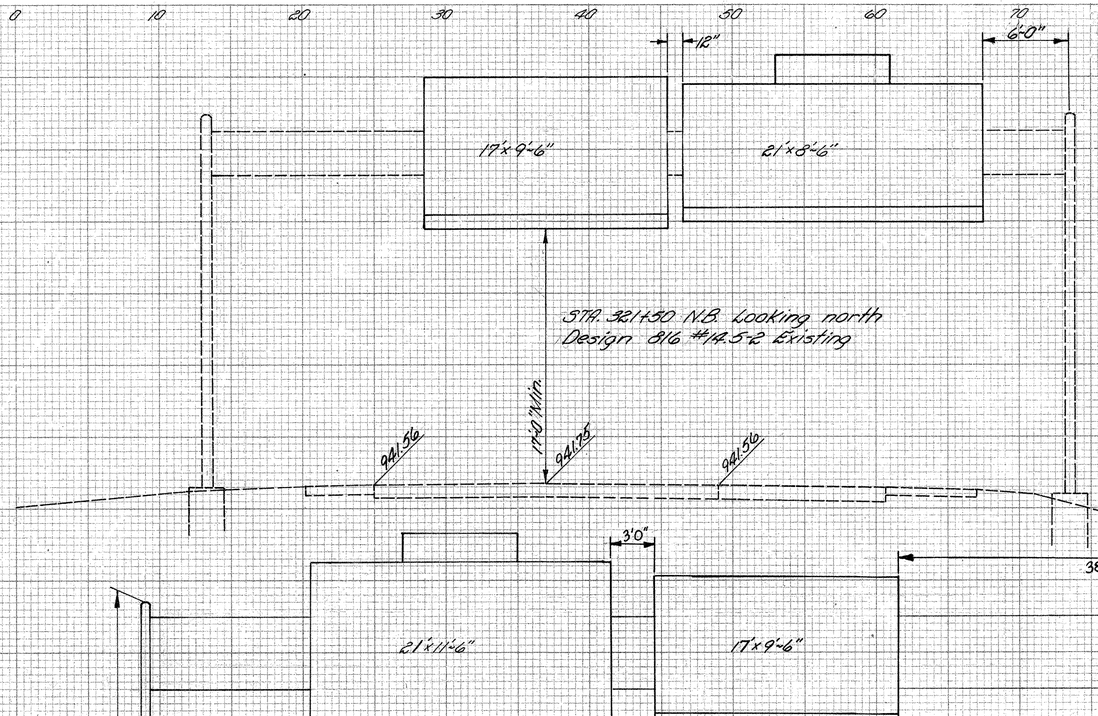
SEEDING	
END WIDTH	SQ. YDS.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

157
191

AUGLAIZE COUNTY
AUG.-75-4.97

END AREA		VOLUME	
CUT	FILL	CUT	FILL



Remove existing signs and mount new signs on the existing supports.

SEE SHEET 141 & 148

(2)

ITEM — SIGN NO. 2

625 MERCURY VAPOR SIGN LIGHTING LUMINAIRE WITH BALLAST AND LAMP, BY RATING — 3-Each 175 Watt
625 MERCURY VAPOR LIGHTED SIGN, WIRED COMPLETE — 2-Each
625 DISCONNECT SWITCH WITH ENCLOUSURE — 1-Each
625 GROUND ROD — 1-Each

(3)

Remove existing signs and existing support structure. Mount new signs on new support at sta. 321+00

SEE SHEET 141 & 148

ITEM — SIGN NO. 3

816 Overhead Sign Support Nº 7.5 Design 4 Mod. — 1-Each
816 Concrete for Overhead Sign Support Foundations — 8.95 Cu.Yd.

625 MERCURY VAPOR SIGN LIGHTING LUMINAIRE WITH BALLAST AND LAMP, BY RATING
3-Each 250 Watt
2-Each 175 Watt
625 MERCURY VAPOR LIGHTED SIGN, WIRED COMPLETE — 2-Each
625 DISCONNECT SWITCH WITH ENCLOUSURE — 1-Each
625 GROUND ROD — 1-Each

SEE SHEET 142 & 162

(46)

ITEM — SIGN NO. 46

816 Overhead Sign Support Nº 7.5 Design 1 Mod. — 1-Each
816 Concrete for Overhead Sign Support Foundations — 3.41 Cu.Yd.

625 MERCURY VAPOR SIGN LIGHTING LUMINAIRE WITH BALLAST AND LAMP, BY RATING — 3-Each 175 Watt
625 MERCURY VAPOR LIGHTED SIGN, WIRED COMPLETE — 2 Each 250 Watt
2-Each
625 DISCONNECT SWITCH WITH ENCLOUSURE — 1-Each
625 GROUND ROD — 1-Each

816 ITEMS carried to Sheet Nº 138
625 ITEMS carried to Sheet Nº 138

SIGNING CROSS SECTIONS

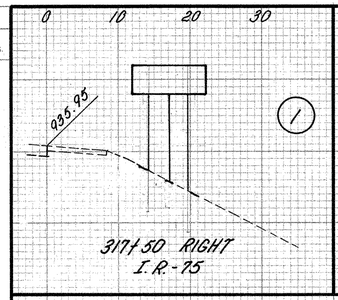
SEEDING	
END WIDTH	SQ. YDS.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

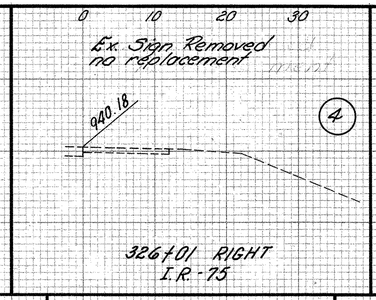
158
191

AUGLAIZE COUNTY
AUG.-75-4.97

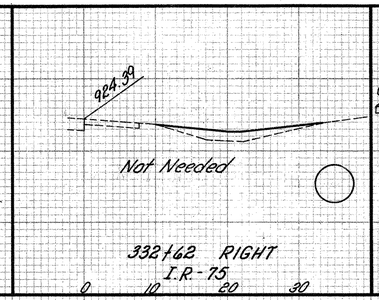
END AREA		VOLUME	
CUT	FILL	CUT	FILL



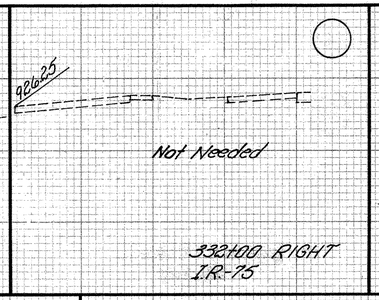
317+50 RIGHT
I.R.-75



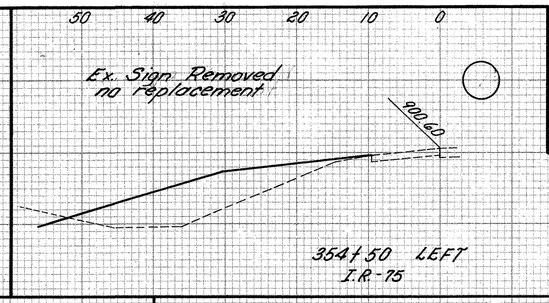
326+01 RIGHT
I.R.-75



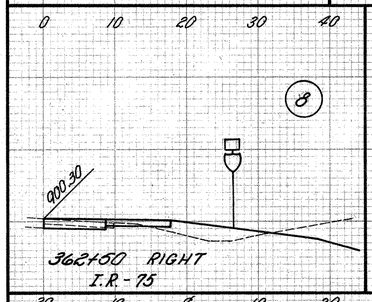
332+62 RIGHT
I.R.-75



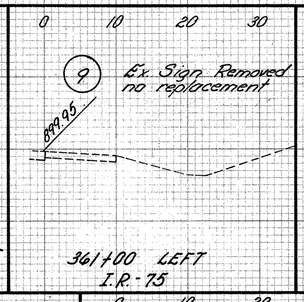
332+00 RIGHT
I.R.-75



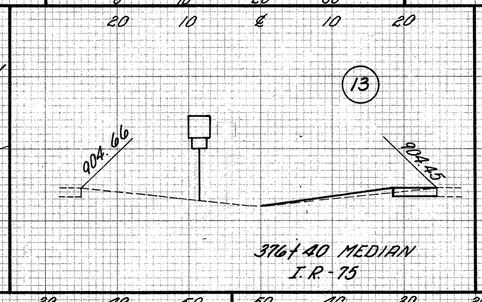
354+50 LEFT
I.R.-75



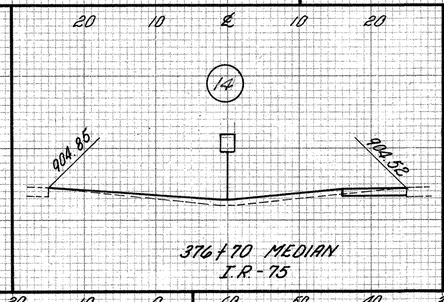
362+50 RIGHT
I.R.-75



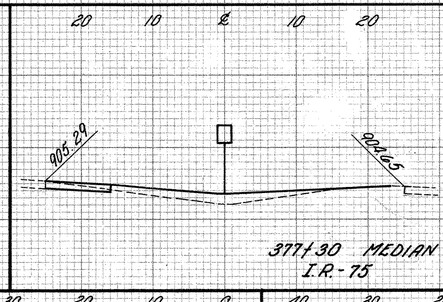
361+00 LEFT
I.R.-75



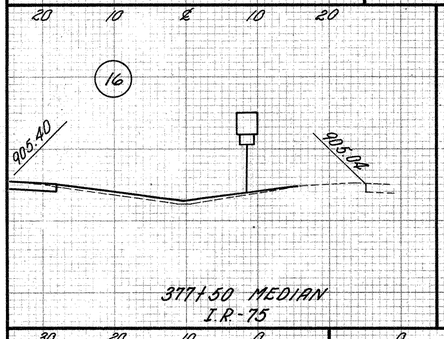
376+40 MEDIAN
I.R.-75



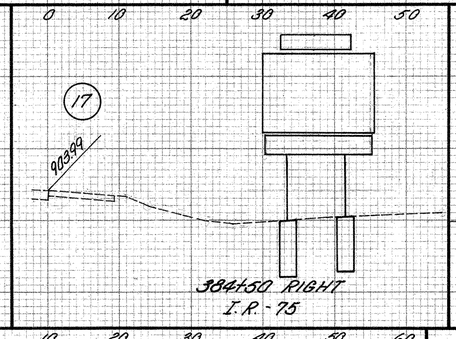
376+70 MEDIAN
I.R.-75



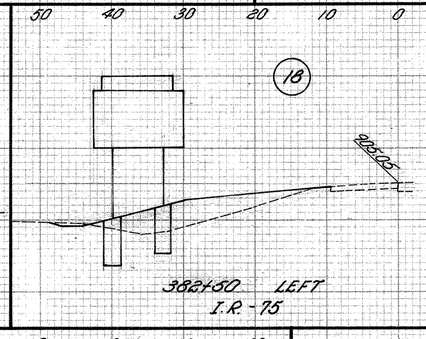
377+30 MEDIAN
I.R.-75



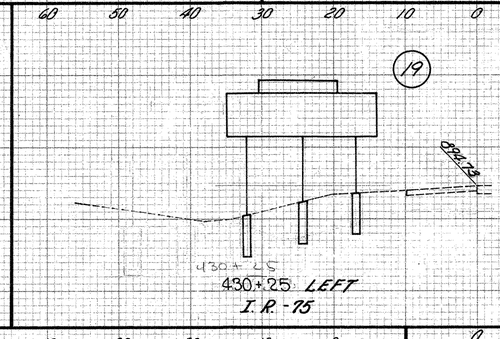
377+50 MEDIAN
I.R.-75



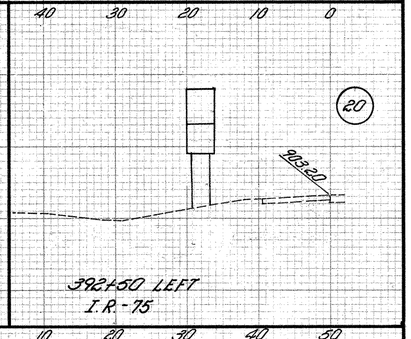
384+50 RIGHT
I.R.-75



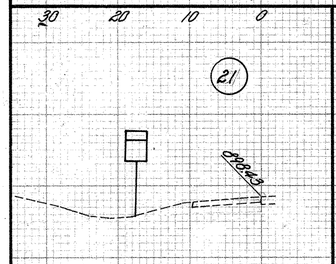
382+50 LEFT
I.R.-75



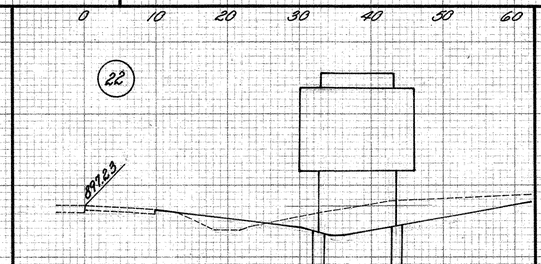
430+25 LEFT
I.R.-75



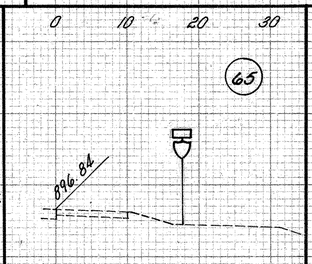
392+50 LEFT
I.R.-75



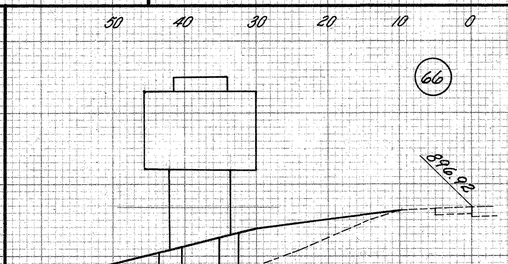
402+50 LEFT
I.R.-75



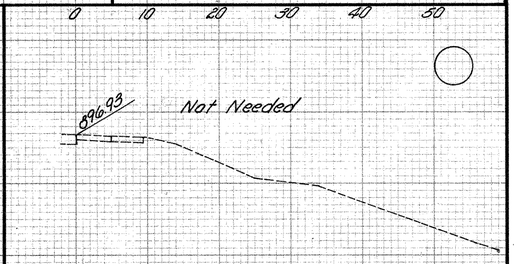
416+00 RIGHT
I.R.-75



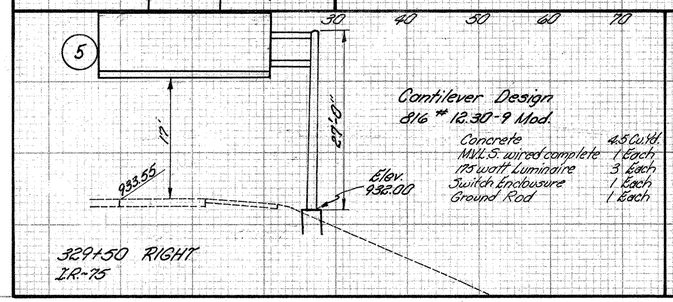
445+00 RIGHT
I.R.-75



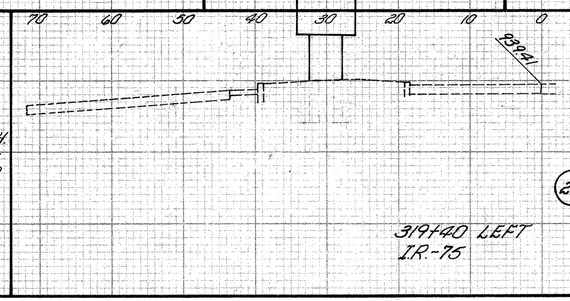
446+00 LEFT
I.R.-75



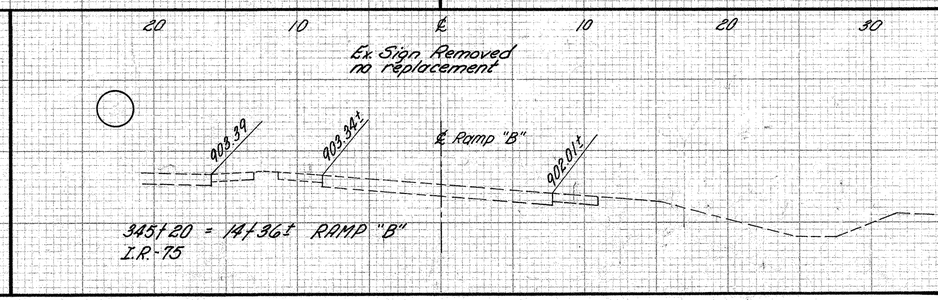
447+50 RIGHT
I.R.-75



329+50 RIGHT
I.R.-75



319+40 LEFT
I.R.-75



345+20 = 14+36.7 RAMP "B"
I.R.-75

SIGNING CROSS SECTIONS

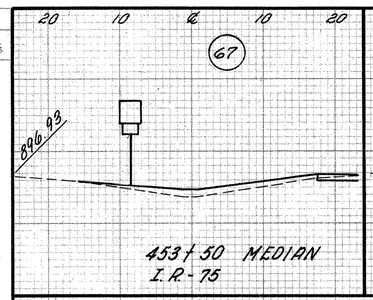
SEEDING	
EIID WIDTH	SQ. YDS.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

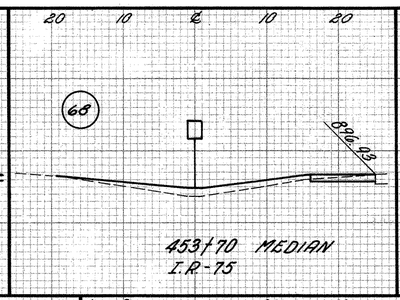
159/191

AUGLAIZE COUNTY
AUG.-75-9.47

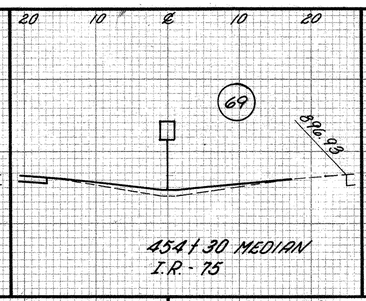
END AREA		VOLUME	
CUT	FILL	CUT	FILL



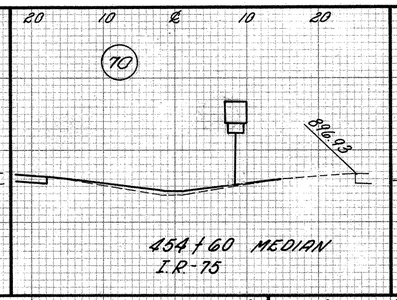
453+50 MEDIAN
I.R.-75



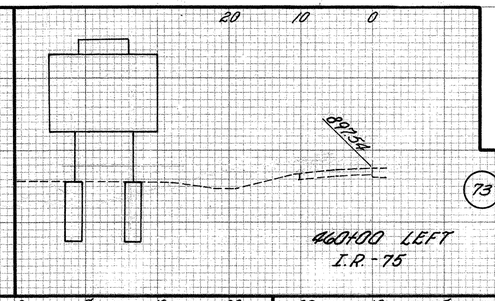
453+70 MEDIAN
I.R.-75



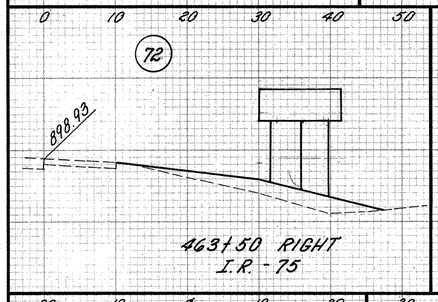
454+30 MEDIAN
I.R.-75



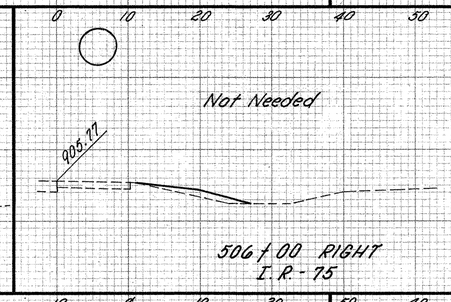
454+60 MEDIAN
I.R.-75



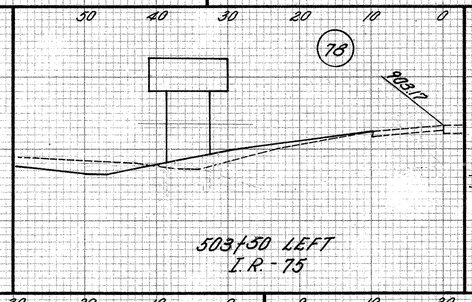
460+00 LEFT
I.R.-75



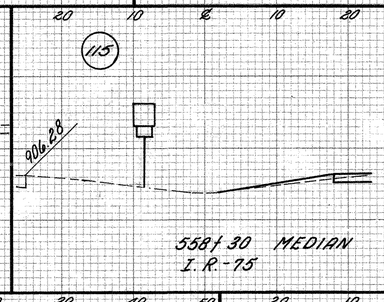
463+50 RIGHT
I.R.-75



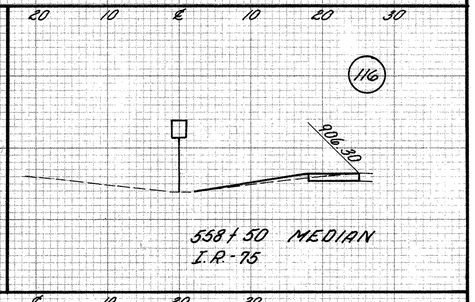
506+00 RIGHT
I.R.-75



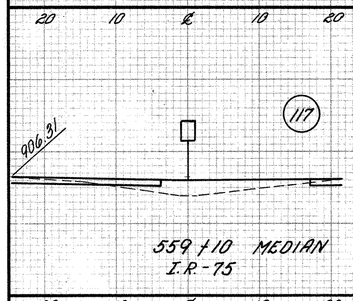
503+50 LEFT
I.R.-75



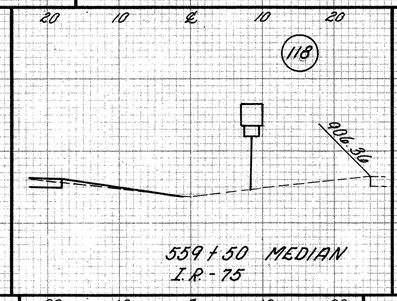
558+30 MEDIAN
I.R.-75



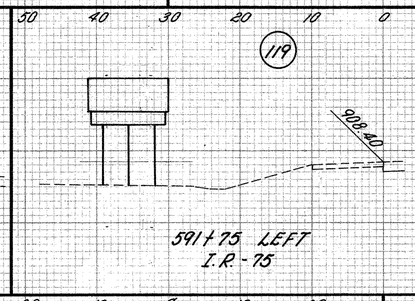
558+50 MEDIAN
I.R.-75



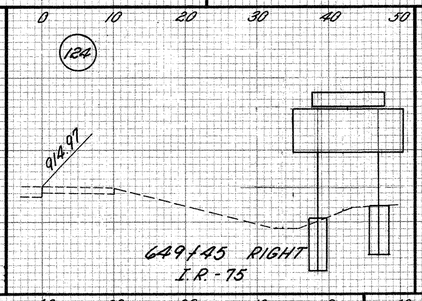
559+10 MEDIAN
I.R.-75



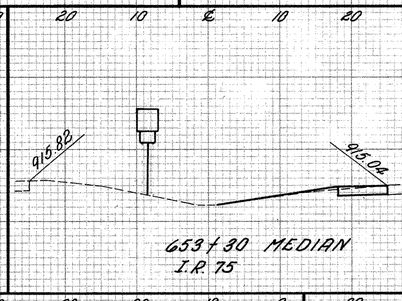
559+50 MEDIAN
I.R.-75



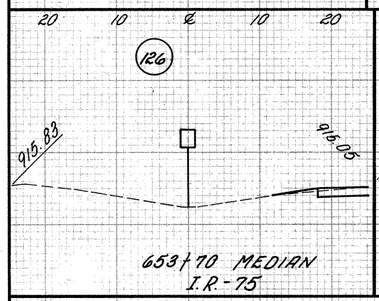
591+75 LEFT
I.R.-75



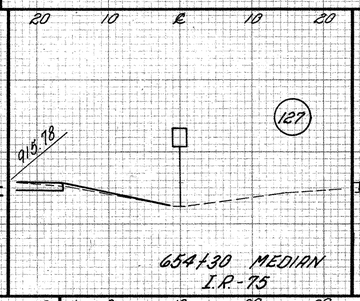
649+45 RIGHT
I.R.-75



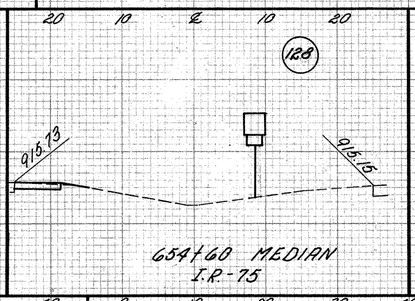
653+30 MEDIAN
I.R.-75



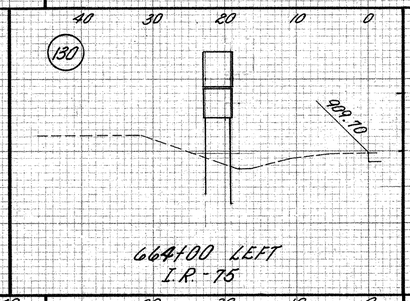
653+70 MEDIAN
I.R.-75



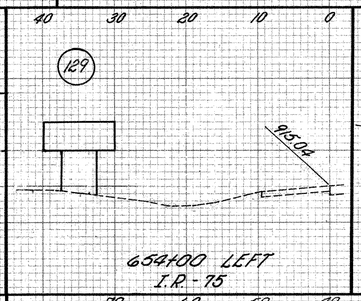
654+30 MEDIAN
I.R.-75



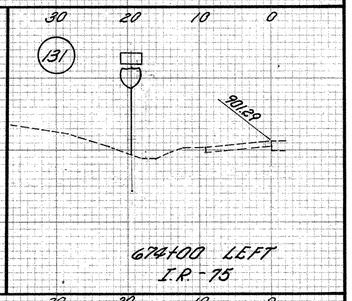
654+60 MEDIAN
I.R.-75



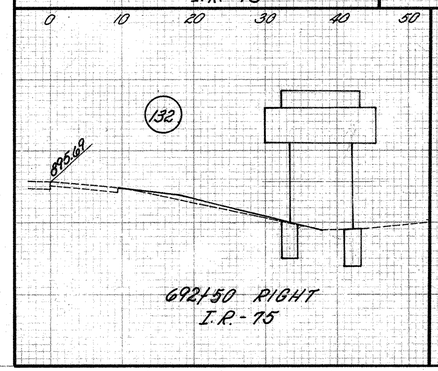
664+00 LEFT
I.R.-75



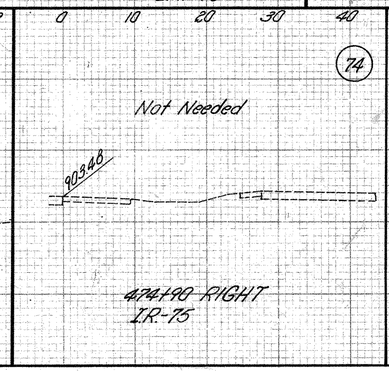
654+00 LEFT
I.R.-75



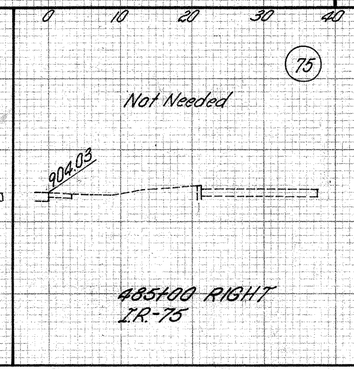
674+00 LEFT
I.R.-75



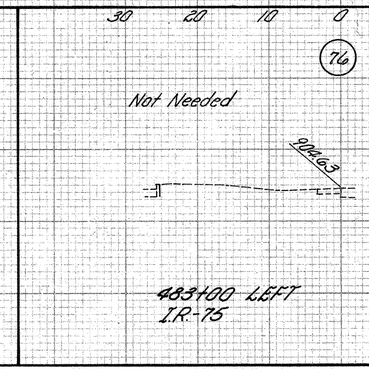
692+50 RIGHT
I.R.-75



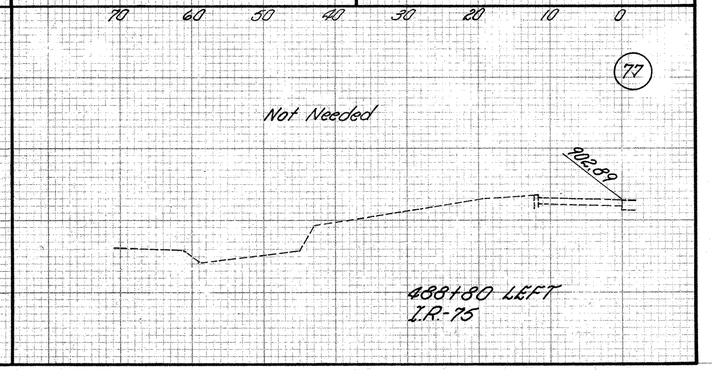
474+90 RIGHT
I.R.-75



485+00 RIGHT
I.R.-75



483+00 LEFT
I.R.-75



488+80 LEFT
I.R.-75

SIGNING CROSS SECTIONS

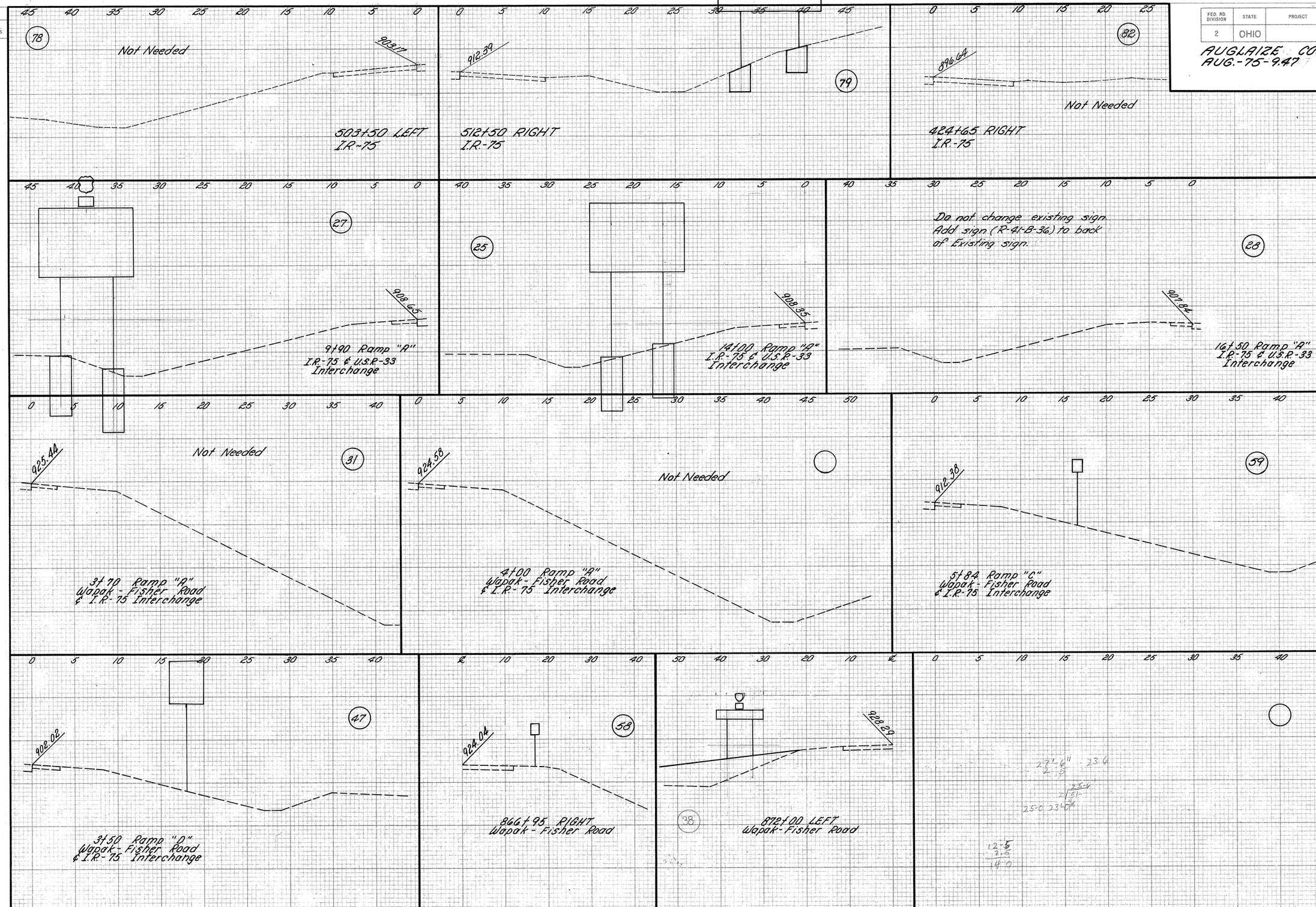
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

160/191

AUGLAIZE COUNTY
AUG.-75-9.47

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



SIGNING CROSS SECTIONS

SEEDING	
END WIDTH	SQ. YDS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AUGLAIZE COUNTY
AUG.-75-4.97

161
191

END AREA		VOLUME	
CUT	FILL	CUT	FILL

61

915.15

335+70 LEFT
I.R.-75

45

Not Needed

904.95

342+00 RIGHT
I.R.-75

84

896.71

Proposed Conduit

427+75 RIGHT
I.R.-75

98

896.31

425+75 LEFT
I.R.-75

150

895.81

690+76
I.R.-75

149

Not Needed

826.87

696+30 LEFT
I.R.-75

140

899.95

704+00 RIGHT
I.R.-75

83

895.37

1+60 Ramp "B"
I.R.-75 & S.R.-67
Interchange

86

899.17

7+50 Ramp "B"
I.R.-75 & S.R.-67
Interchange

89

No work required
to existing sign.

904.38

15+45 Ramp "B"
I.R.-75 & S.R.-67
Interchange

103

893.43

6+30 Ramp "C"
I.R.-75 & S.R.-67
Interchange

174

Not Needed

900.15

10+75 Ramp "C"
S.R.-67 & I.R.-75
Interchange

99

900.81

115+10
S.R.-67

SIGNING CROSS SECTIONS

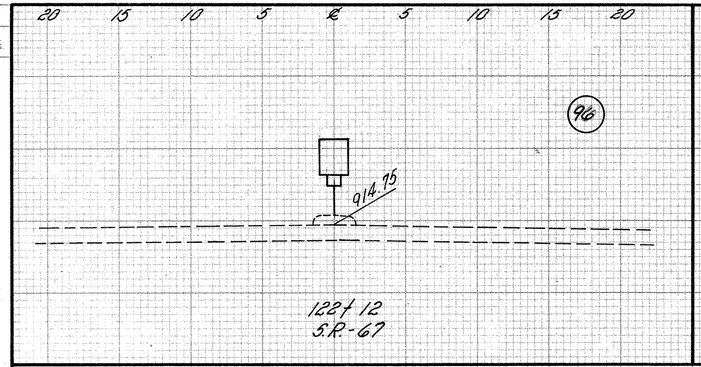
SEEDING	
END WIDTH	SQ. YDS.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

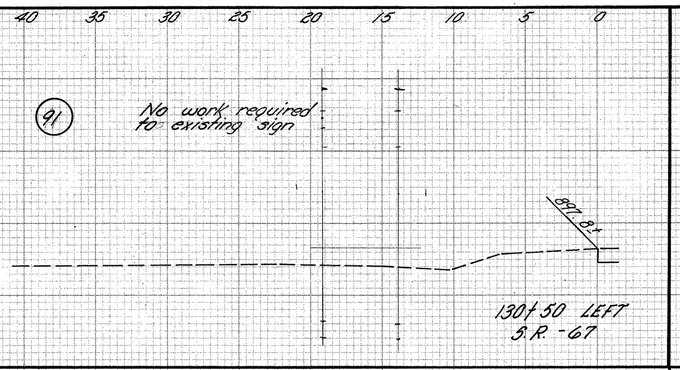
162
191

AUGLAIZE COUNTY
AUG.-75-4.97

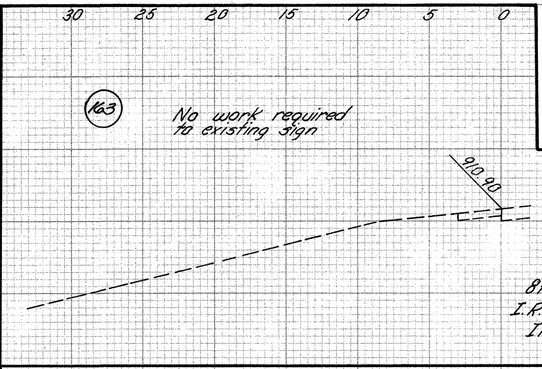
END AREA		VOLUME	
CUT	FILL	CUT	FILL



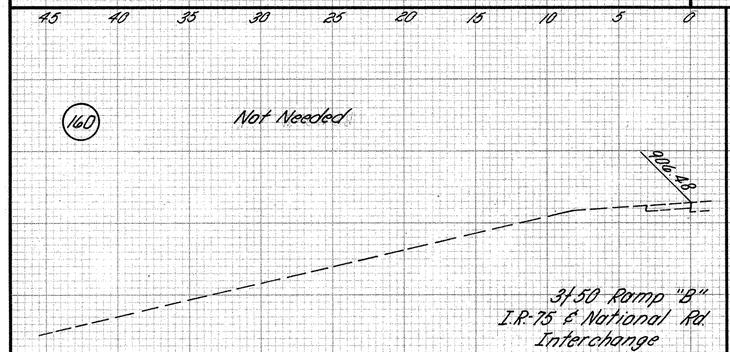
122+12
S.R.-67



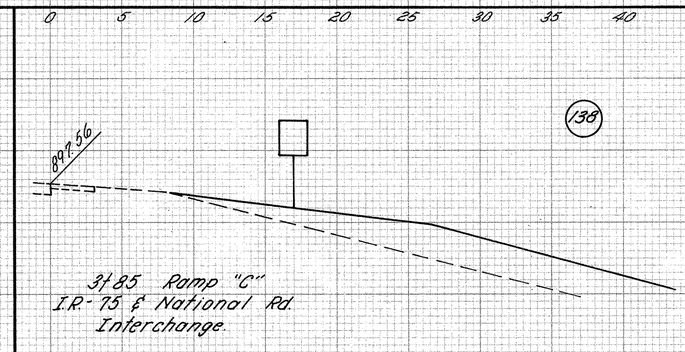
130+50 LEFT
S.R.-67



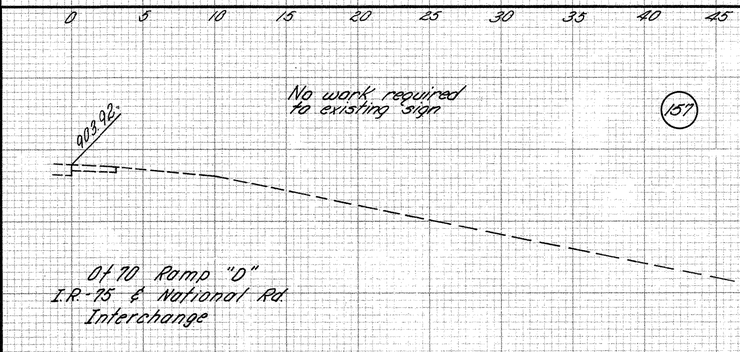
8+70 Ramp "A"
I.R.-75 & National Rd.
Interchange



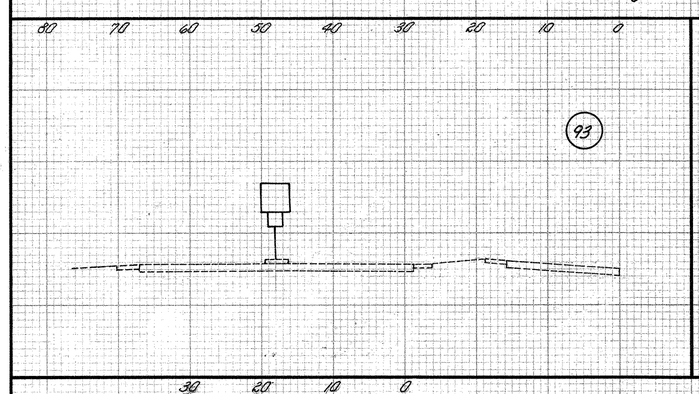
3+50 Ramp "B"
I.R.-75 & National Rd.
Interchange

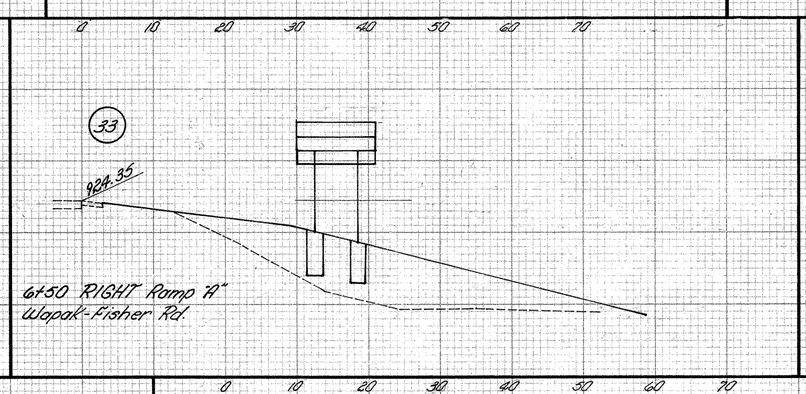


3+85 Ramp "C"
I.R.-75 & National Rd.
Interchange

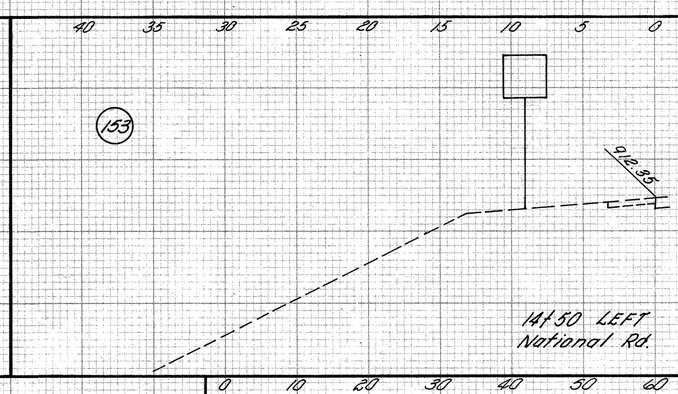


0+70 Ramp "D"
I.R.-75 & National Rd.
Interchange

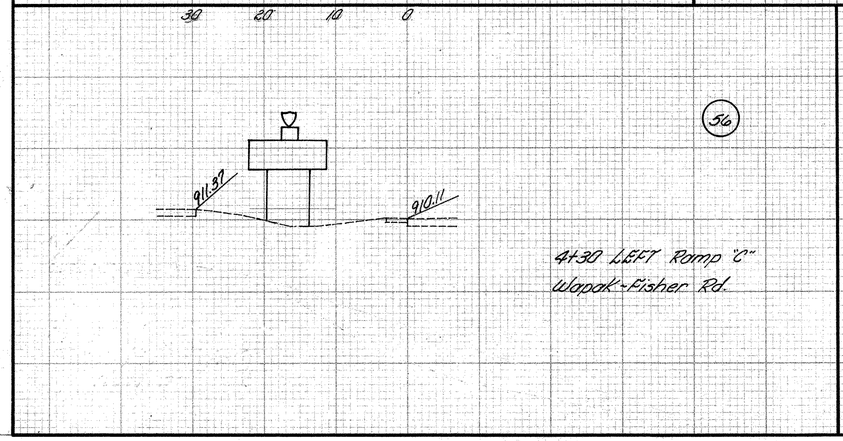




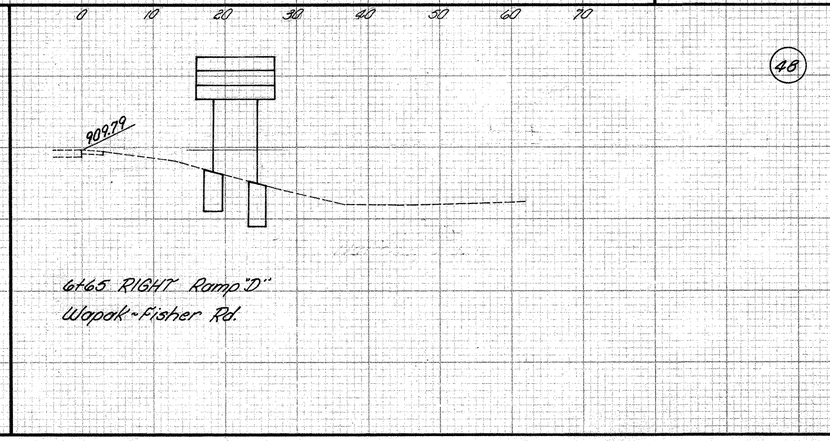
6+50 RIGHT Ramp "A"
Wapak-Fisher Rd.



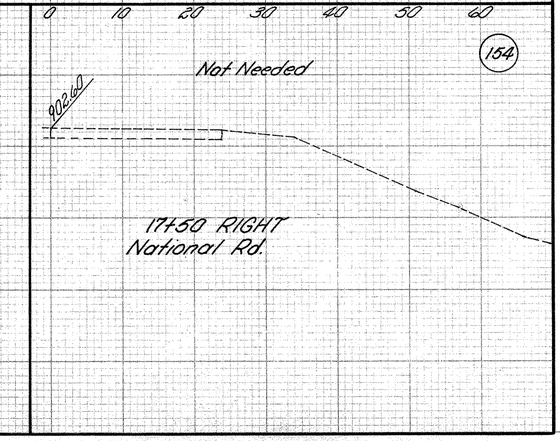
14+50 LEFT
National Rd.



4+30 LEFT Ramp "C"
Wapak-Fisher Rd.



6+65 RIGHT Ramp "D"
Wapak-Fisher Rd.



17+50 RIGHT
National Rd.

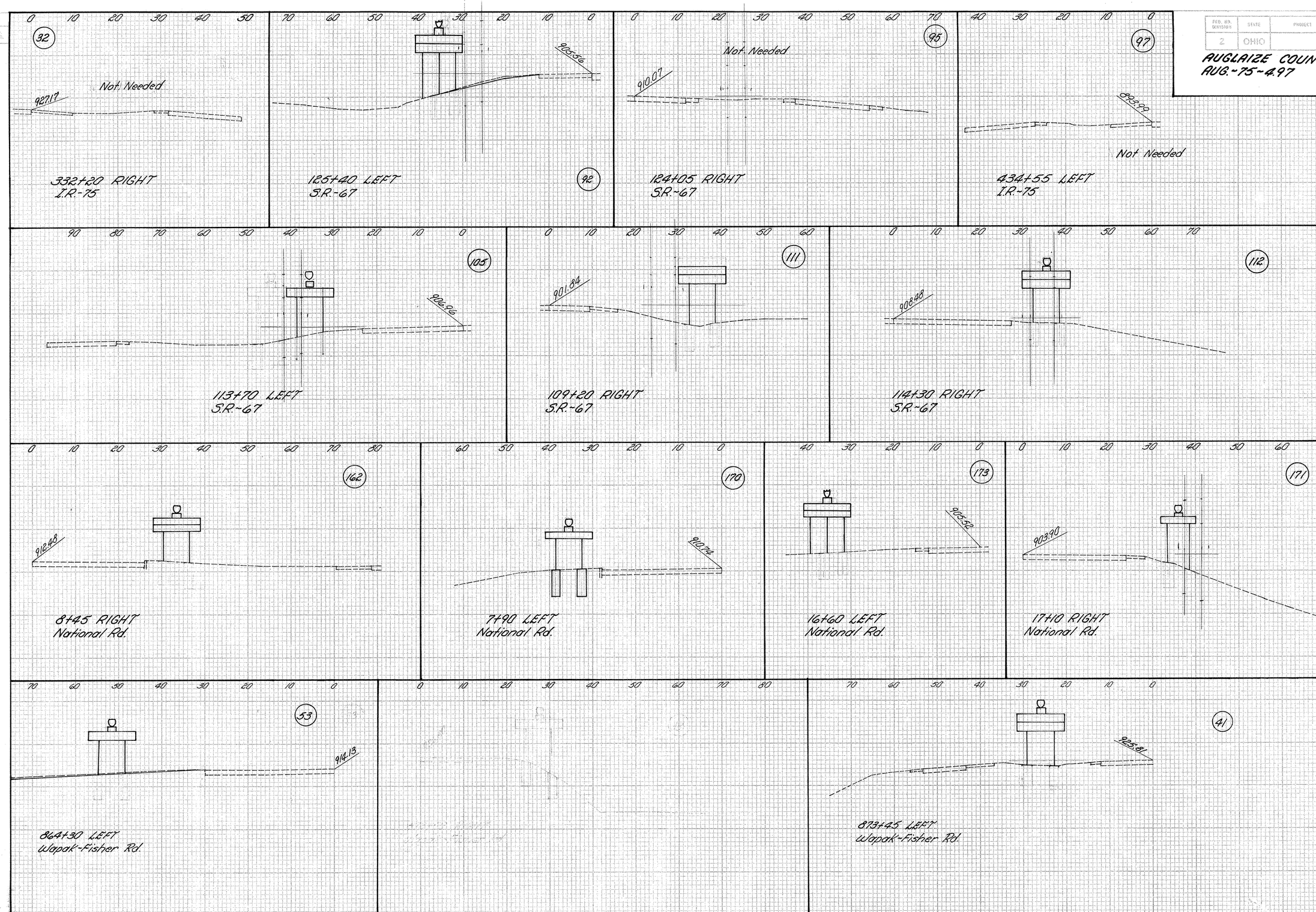
SIGNING CROSS SECTIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

163
191

AUGLAIZE COUNTY
AUG.-75-4.97

END AREA		VOLUME	
CUT	FILL	CUT	FILL



SIGNING CROSS SECTIONS

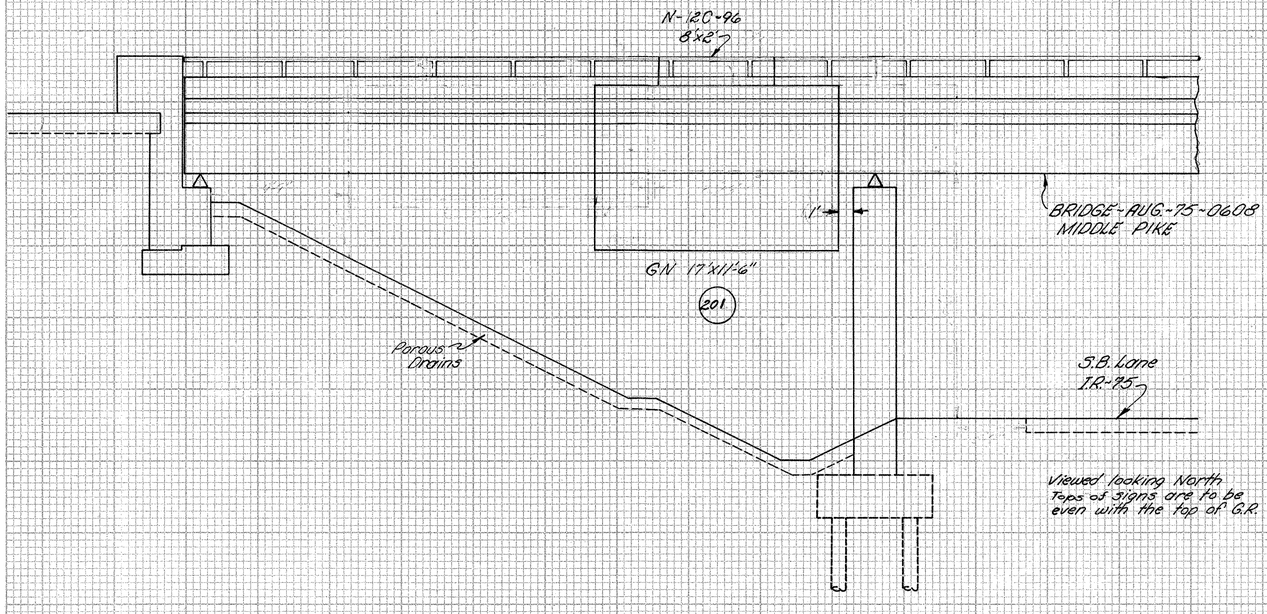
SEEDING

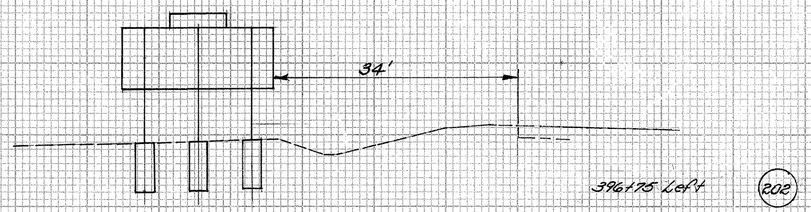
END AREA		VOLUME	
CUT	FILL	CUT	FILL

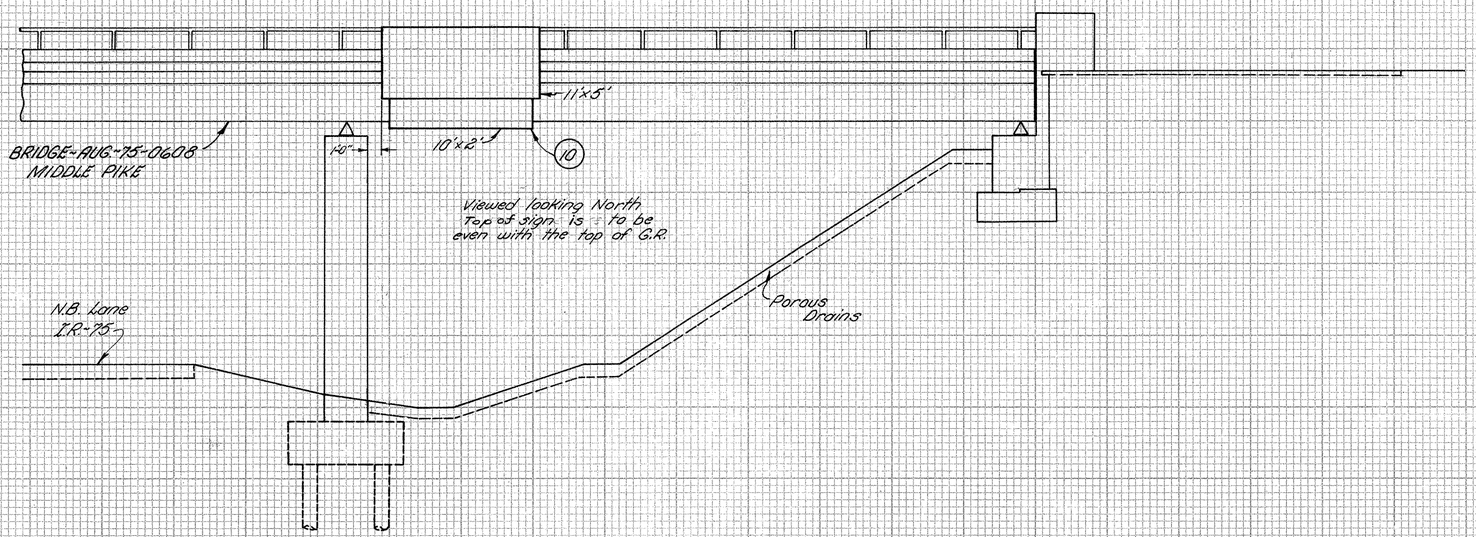
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

164
191

AUGLAIZE COUNTY
AUG.-75-4.97







SEEDING

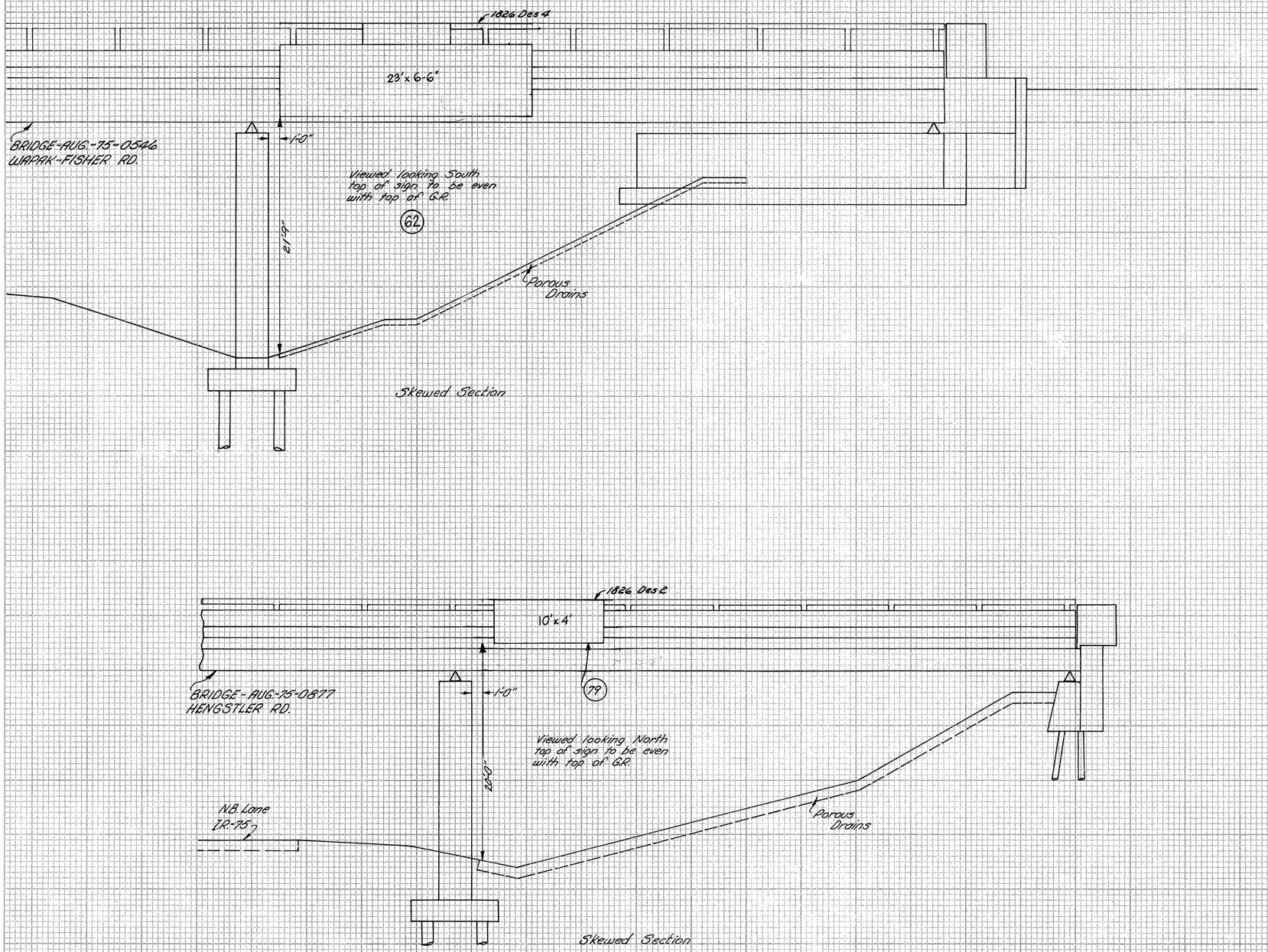
END WIDTH	SQ. YDS.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

165
191

AUGLAIZE COUNTY
AUG.-75-4.97

END AREA		VOLUME	
CUT	FILL	CUT	FILL

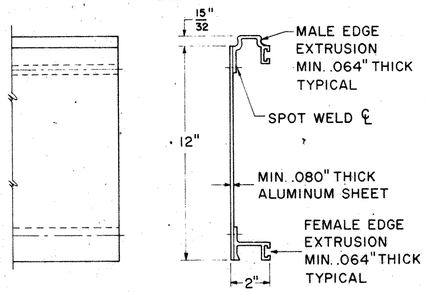


FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

166/191

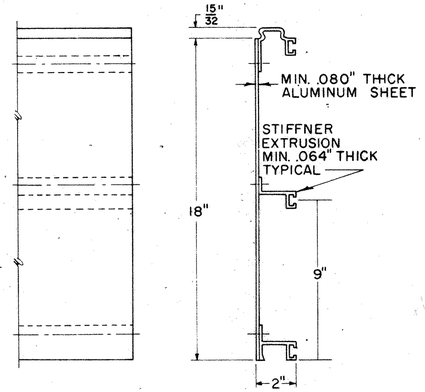
AUGLAIZE COUNTY
AUG. - 75 - 4.97

12" EXTRUSHEET PANEL



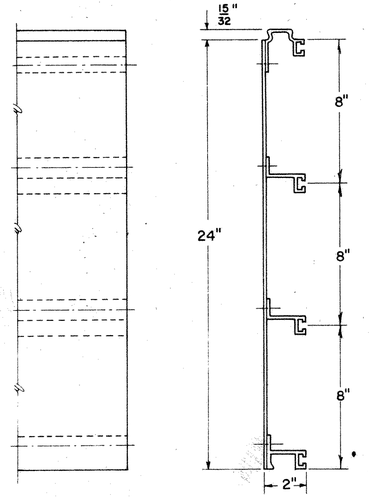
FRONT VIEW SIDE VIEW

18" EXTRUSHEET PANEL



FRONT VIEW SIDE VIEW

24" EXTRUSHEET PANEL



FRONT VIEW SIDE VIEW

NOTES:

EXTRUSHEET PANELS SHALL BE ALUMINUM; SPOT WELDING AND ALL MATERIALS SHALL CONFORM WITH SUPPLEMENTAL SPECIFICATION NO. 815

COMBINATIONS OF 12", 18", AND 24" PANELS ARE USED TO ATTAIN REQUIRED SIGN HEIGHT.

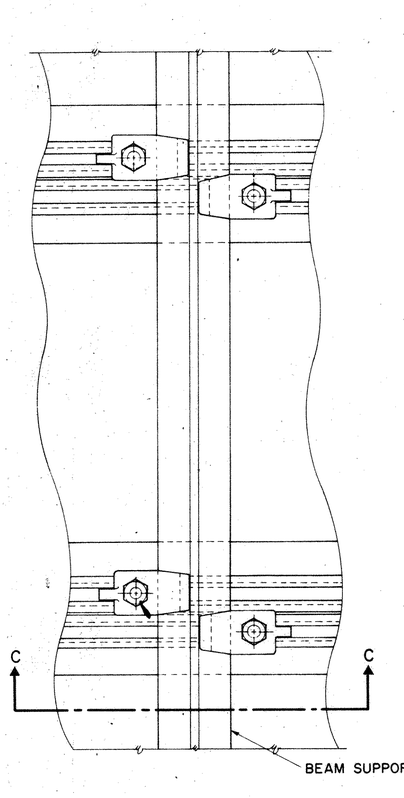
INDIVIDUAL PANELS SHALL BE THE SAME LENGTH AS THE HORIZONTAL LENGTH OF SIGN WITH NO SPLICES.

PANELS SHALL BE INTERLOCKED AND ERECTED WITH THE MALE EXTRUSION LOCATED AT THE TOP EDGE OF THE SIGN.

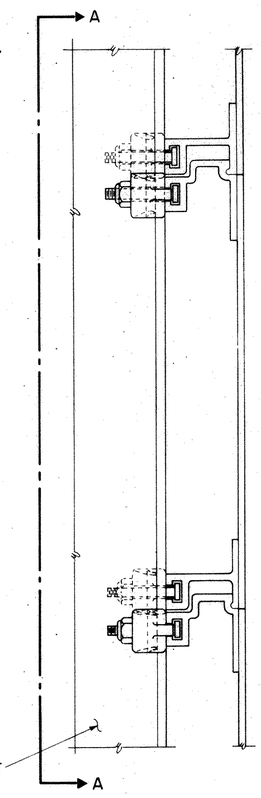
EXTRUSHEET PANELS SHALL BE FASTENED TO EACH VERTICAL SUPPORT MEMBER WITH MOUNTING CLIPS; ALTERNATELY AT EACH HORIZONTAL EXTRUSION; BOTH SIDES AT EACH JOINT; AND ON BOTH SIDES AT TOP AND BOTTOM EDGE OF SIGN.

THE PANELS SHALL BE DESIGNED TO WITHSTAND A WIND LOAD OF 35 POUNDS PER SQUARE FOOT, IN ACCORDANCE WITH THE A.A.S.H.O. SPECIFICATION FOR DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS.

THE MAXIMUM SIGN LENGTH FOR TWO SUPPORTS IS 19'-0".
THE MAXIMUM SIGN LENGTH FOR THREE SUPPORTS IS 29'-0".

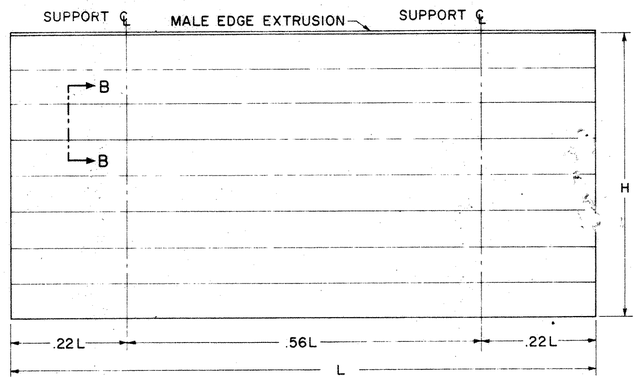


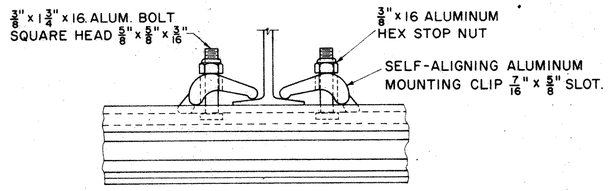
SECTION A-A



SECTION B-B

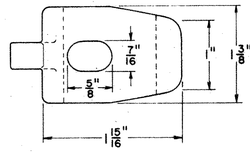
GENERAL ARRANGEMENT

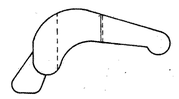




SECTION C-C

CLIP DETAIL





SPOT WELDS

PANEL SIZE	MAXIMUM SPOT WELD SPACING	
	CENTER TO CENTER	BETWN ROWS
12 INCH	4 INCH	10 INCH
18 & 24 INCH	4 INCH	8 INCH

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

ALUMINUM EXTRUSHEET PANEL SIGN

ECD 1

DATE
9-25-63
5-19-64
10-21-65
5-24-67

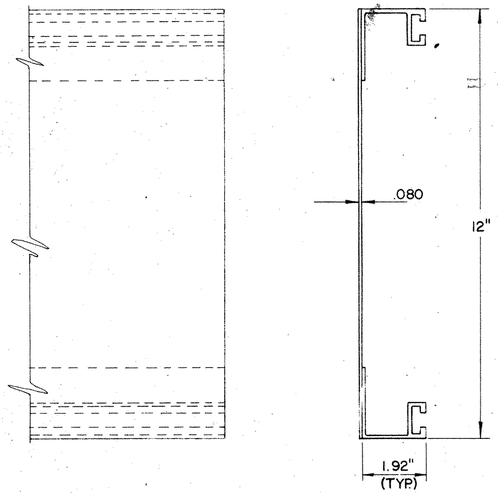
APPROVED Fred C. Talbot
ENGINEER OF TRAFFIC

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

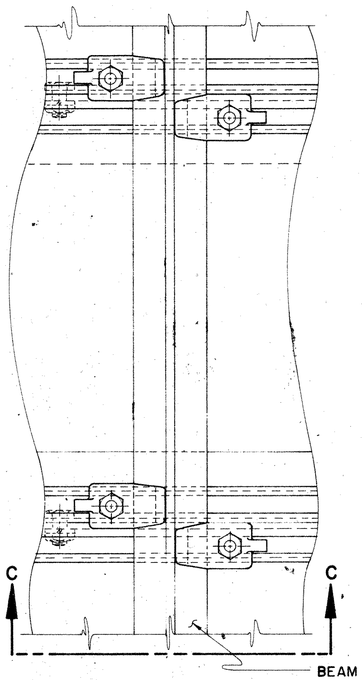
167
191

AUGLAIZE COUNTY
AUG. - 75 - 4.97

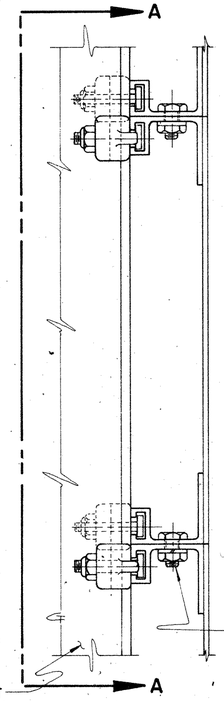
12" BOLTED-EXTRUSHEET PANEL



FRONT VIEW SIDE VIEW

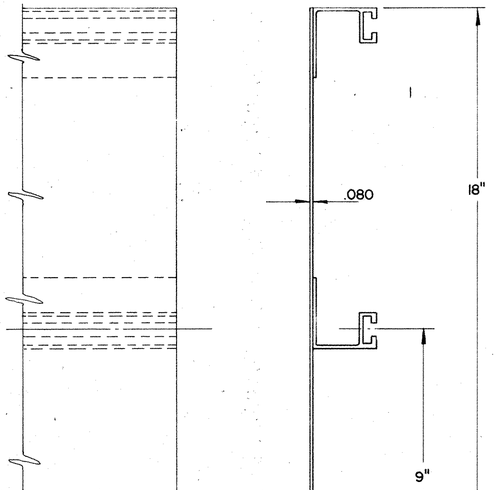


SECTION A-A

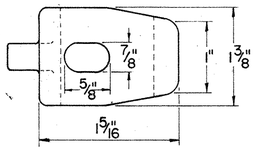


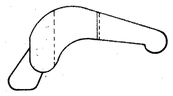
SECTION B-B

18" BOLTED-EXTRUSHEET PANEL

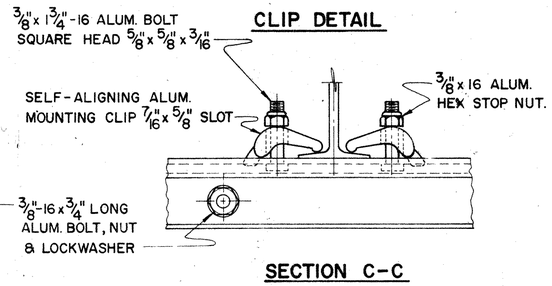


FRONT VIEW SIDE VIEW



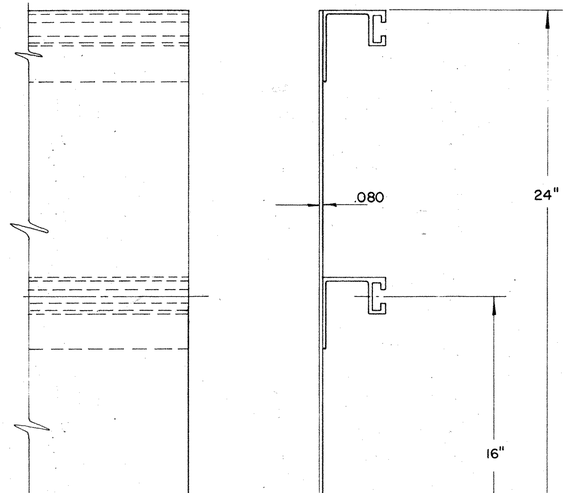


CLIP DETAIL

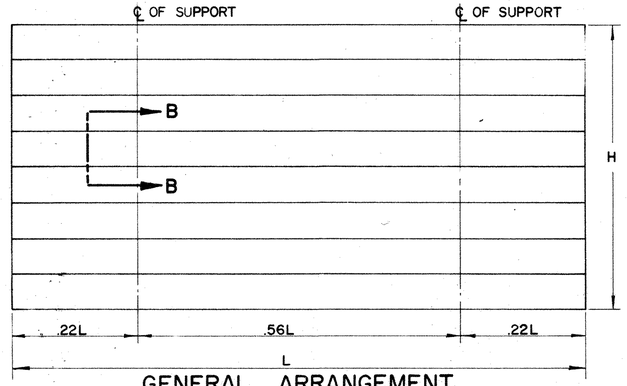


SECTION C-C

24" BOLTED-EXTRUSHEET PANEL



FRONT VIEW SIDE VIEW



GENERAL ARRANGEMENT

NOTES

EXTRU-SHEET PANELS SHALL BE ALUMINUM; SPOT WELDING, MATERIALS AND HARDWARE SHALL CONFORM WITH SPECIFICATION NO. 815

COMBINATIONS OF 12", 18" AND 24" PANELS ARE TO BE USED TO ATTAIN REQUIRED SIGN HEIGHT.

INDIVIDUAL PANELS SHALL BE THE SAME LENGTH AS THE HORIZONTAL LENGTH OF SIGN, WITH NO SPLICES.

THE PANELS SHALL BE ERECTED HORIZONTALLY AND BOLTED ON 24" CENTERS.

THE PANELS SHALL BE FASTENED TO EACH VERTICAL SUPPORT MEMBER WITH MOUNTING CLIPS; ALTERNATELY AT EACH HORIZONTAL EXTRUSION; BOTH SIDES AT EACH JOINT, AND BOTH SIDES AT TOP AND BOTTOM EDGES OF SIGN.

THE PANELS SHALL BE DESIGNED IN ACCORDANCE WITH THE A.A.S.H.O SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, BASE ON A WIND LOAD OF 35#/SQ.FT.

THE MAXIMUM SIGN LENGTH FOR TWO SUPPORTS IS 19'-0". THE MAXIMUM SIGN LENGTH FOR THREE SUPPORTS IS 29'-0".

SPOT WELDS

PANEL SIZE	MAXIMUM SPOT WELD SPACING	
	CENTER TO CENTER	BETWN ROWS
12 INCH	4 INCH	10 INCH
18 & 24 INCH	4 INCH	8 INCH

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

ALUMINUM BOLTED EXTRUSHEET PANEL SIGN	ECD 2	DATE 10-14-65

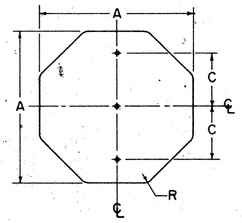
APPROVED Fred C. Talbot
ENGINEER OF TRAFFIC

ALUMINUM BOLTED-EXTRUSHEET PANEL SIGN

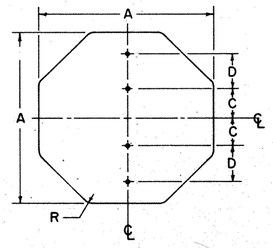
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

168
191

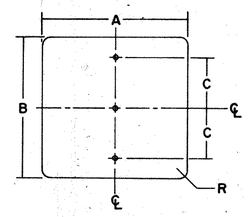
AUGLAIZE COUNTY
AUG. - 75 - 4.97



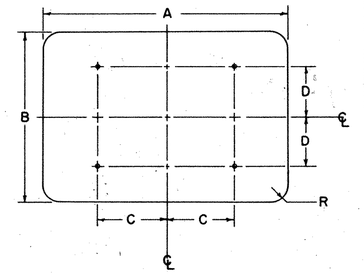
A	C	R	GAUGE
30	8	1 1/2	.080
36	8	1 1/2	.080



A	C	D	R	GAUGE
48	8	10	1 1/2	.100

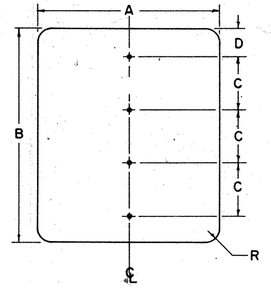


A	B	C	R	GAUGE
24	30	8	1 1/2	.063
24	48	15	1 1/2	.100
30	36	11	1 1/2	.080
30	42	12	1 1/2	.080
36	36	11	1 1/2	.080
36	42	15	1 1/2	.080
36	48	15	1 1/2	.080
48	24	10	3	.100
48	36	13	3	.100

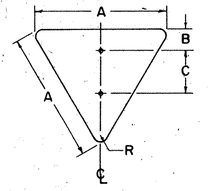


A	B	C	D	R	GAUGE
48	48	22	16	3	.100
48	60	22	22	3	.100

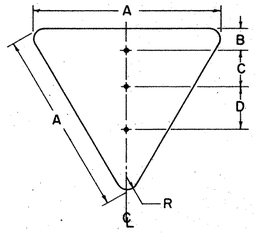
SPEED LIMIT SIGNS ON TWO SUPPORTS



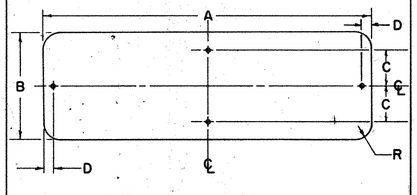
A	B	C	D	R	GAUGE
48	48	12	6	3	.100
48	60	15	7 1/2	3	.100



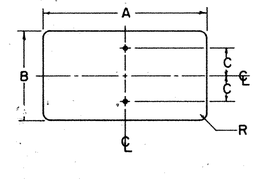
A	B	C	R	GAUGE
36	3	16	2 1/2	.080



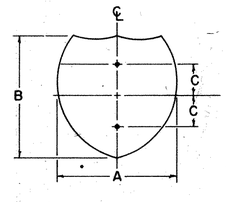
A	B	C	D	R	GAUGE
48	4	10	15	3	.100
60	5	10	15	4	.100



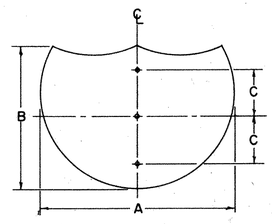
A	B	C	D	R	GAUGE
36	12	4	1	1 1/2	.080
72	12	—	16	1 1/2	.100
60	**12**	**—**	**13**	**1 1/2**	**.100**



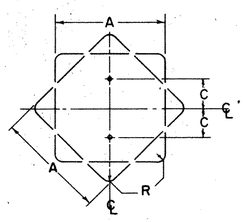
A	B	C	R	GAUGE
12	6	1 1/2	1 1/2	.063
20	15	6	1 1/2	.063
24	12	4 1/2	1 1/2	.063
24	18	7 1/2	1 1/2	.063
8	26	8	1	.063
36	18	7 1/2	1 1/2	.080



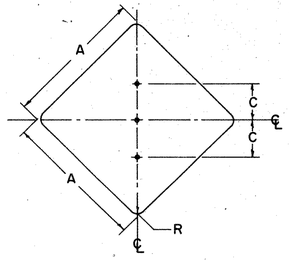
A	B	C	GAUGE
24	24	8	.063
30	24	8	.080



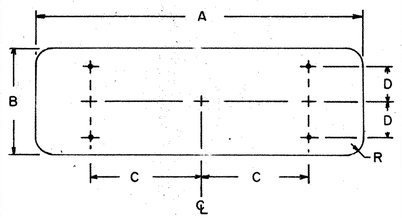
A	B	C	GAUGE
36	36	11	.080
48	36	11	.100



A	C	R	GAUGE
18	7 1/2	1 1/2	.063
24	8	1 1/2	.063
30	8	1 1/2	.080

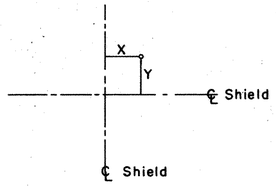


A	C	R	GAUGE
36	12	1 1/2	.080
48	14	3	.100



A	B	C	D	R	GAUGE
72	18	20	6	1 1/2	.100
72	24	20	8	1 1/2	.100
60	30	17	10	1 1/2	.100
96	18	27	6	1 1/2	.100

Location of holes on "Demountable Shields" (attached to guide signs)



SIZE	NO. HOLES	X	Y
(26) 24X24	4	7	7
30X24	4	8	8
(39) 36X36	4	10	10
		0	10
48X36	6	15	10

For notes on fastening see drawing for miscellaneous "Signing Items" sheet.

NOTES:

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

MATERIAL

FLAT SIGN BLANKS SHALL BE FURNISHED IN ALUMINUM ALLOY 6061-T6, (ASTM-B209, GS11A-T6) WITH MILL FINISH.

BOLT HOLES

THE BOLT HOLES SHALL BE 3/8" IN DIAMETER, AND MAY BE DRILLED, BLANKED OR PUNCHED TO FINISHED SIZE.

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

SIGN BLANK DETAILS

SBD

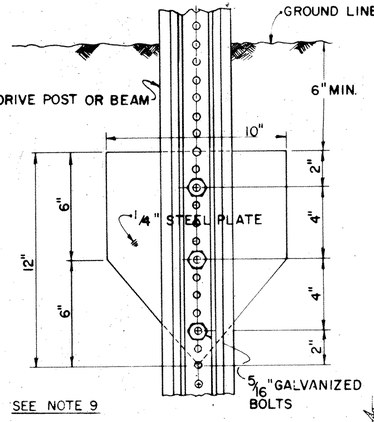
DATE
4-14-67
5-10-68
10-1-68
5-27-69
6-18-69

APPROVED _____
ENGINEER OF TRAFFIC

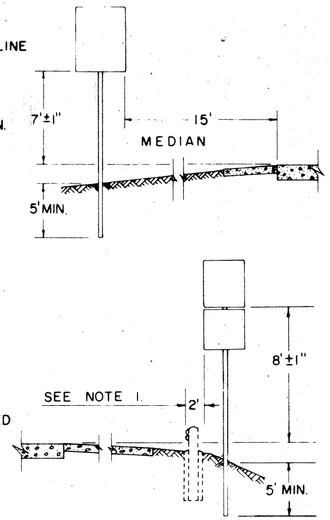
FED. RD. DIVISION	STATE	PROJ.	
2	OHIO		

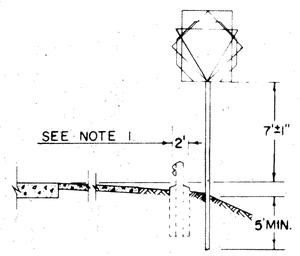
169
191

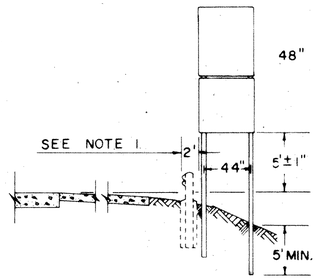
AUGLAIZE COUNTY
AUG.-75-4.97

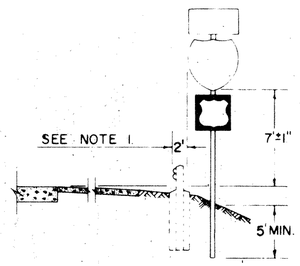


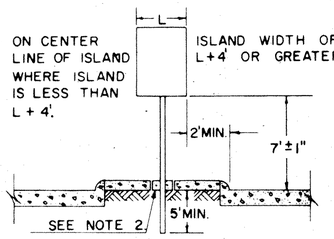
SOIL PLATE DETAIL

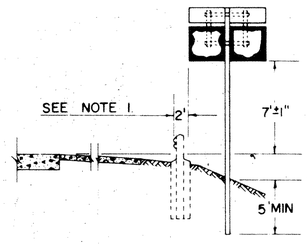


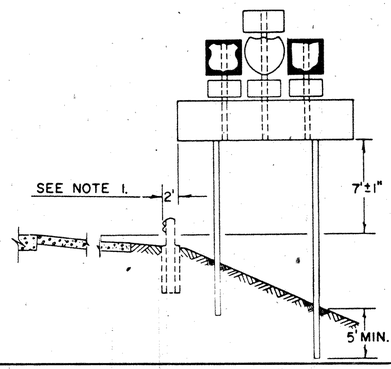


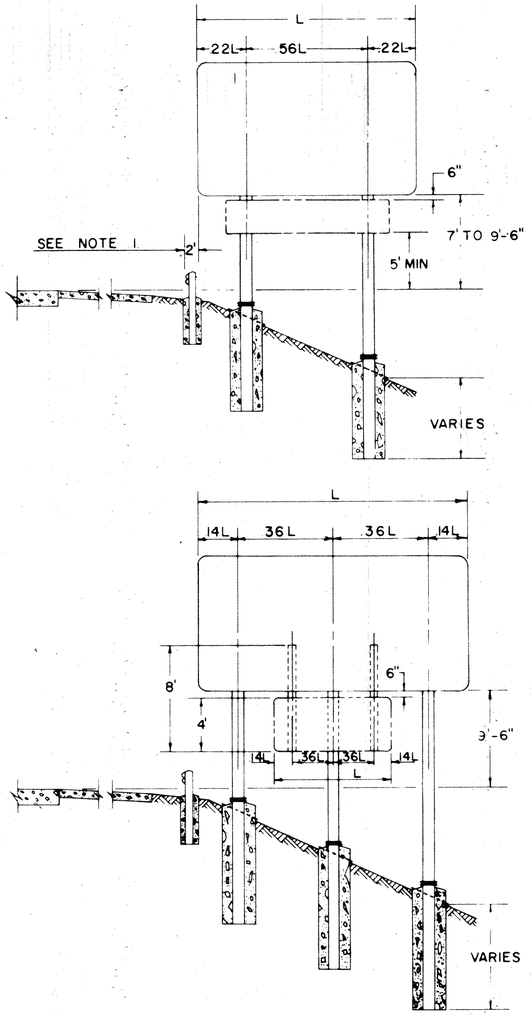


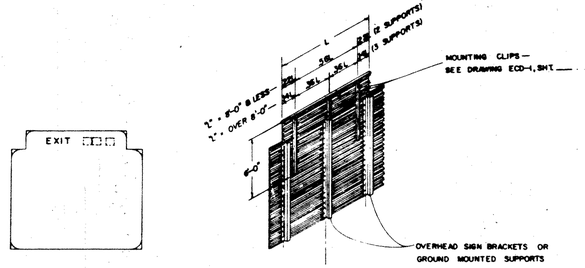




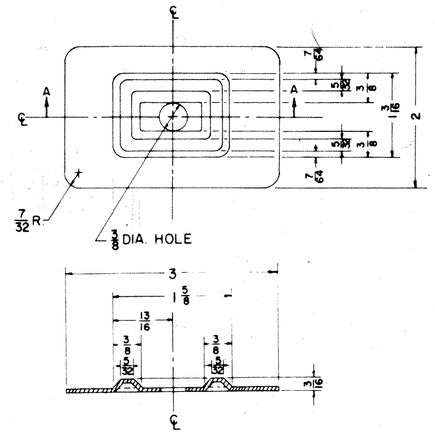








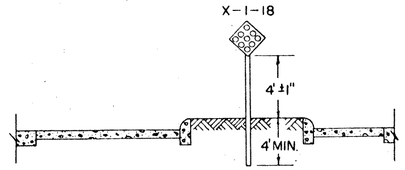
"EXIT" SIGN ATTACHMENT DETAIL



SECTION AA

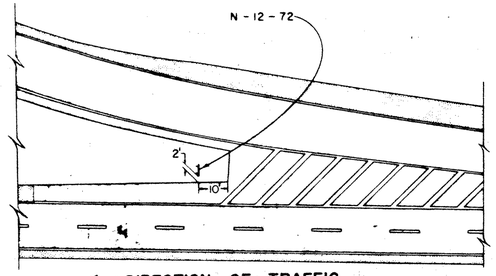
NOTE
THE PLATE IS SYMMETRICAL ABOUT EITHER CENTERLINE.
METAL SHALL BE 16 GAUGE STEEL.
ALL DIMENSIONS ARE IN INCHES.

BEARING PLATE DETAIL



SIGN SUPPORT SPACING

L+FT	2 SUPPORTS .22	2 SUPPORTS .56	3 SUPPORTS .14	3 SUPPORTS .36	L+FT	2 SUPPORTS .22	2 SUPPORTS .56	3 SUPPORTS .14	3 SUPPORTS .36
5.0	1.10	2.80	0.70	1.80	17.0	3.74	9.52	2.38	6.12
6.0	1.32	3.36	0.84	2.16	18.0	3.96	10.08	2.52	6.48
7.0	1.54	3.92	0.98	2.52	19.0	4.18	10.64	2.66	6.84
8.0	1.76	4.48	1.12	2.88	20.0			2.80	7.20
9.0	1.98	5.04	1.26	3.24	21.0			2.94	7.56
10.0	2.20	5.60	1.40	3.60	22.0			3.08	7.92
11.0	2.42	6.16	1.54	3.96	23.0			3.22	8.28
12.0	2.64	6.72	1.68	4.32	24.0			3.36	8.64
13.0	2.86	7.28	1.82	4.68	25.0			3.50	9.00
14.0	3.08	7.84	1.96	5.04	26.0			3.64	9.36
15.0	3.30	8.40	2.10	5.40	27.0			3.78	9.72
16.0	3.52	8.96	2.24	5.76	28.0			3.92	10.08



DIRECTION OF TRAFFIC

NOTES

1. THE NEAR EDGE OF ALL MAIN LINE SIGNS, EXCEPT GORE INSTALLATIONS, SHALL BE LOCATED TWO FEET (2') BACK OF GUARD RAIL FACE. THIS DIMENSION SHALL BE DETERMINED BY ROADWAY TYPICAL SECTION & USED WHETHER OR NOT GUARD RAIL IS PRESENT.
   ON RAMPS THE NEAR EDGE OF SIGNS SHALL BE LOCATED TWO FEET (2') BACK OF GUARD RAIL FACE. THIS DIMENSION WILL BE DETERMINED AND USED AS FOR MAIN LINE ABOVE.
   ON APPROACHES THE NEAR EDGE OF SIGNS SHALL BE
   (A) TWO FOOT (2') BEHIND EXISTING GUARD RAIL
   (B) TWO FEET (2') FROM THE EDGE OF PAVED OR TRAVELED SHOULDER WITH A MINIMUM OF 6' FROM EDGE OF ROADWAY PAVEMENT.

2. POSTS PLACED IN CONCRETE MEDIANS SHALL BE INSTALLED BY DRIVING THROUGH A 6" SLEEVE OR CORE DRILLED HOLE. THE HOLE SHALL BE FILLED WITH ASPHALTIC CONCRETE AFTER THE POST IS IN THE PROPER POSITION.

3. HORIZONTAL BACK BRACING SHALL ALWAYS BE MOUNTED ON THE FRONT FLANGE OF THE SUPPORT EXCEPT WHERE SIGNS ARE MOUNTED BACK TO BACK. BACK BRACING SHALL NEVER EXTEND ABOVE TOP EDGE OF UPPERMOST SIGN PLATE AND SHALL BE ATTACHED TO SUPPORTS USING 5/16" GALVANIZED STEEL BOLTS.

4. SCREWS, NUTS, AND WASHERS FOR SIGN ERECTION SHALL BE ALUMINUM EXCEPT AS NOTED ABOVE. 5/16" TRUSS HEAD SLOTTED MACHINE SCREWS WITH HEX. NUTS PLAIN AND LOCKWASHERS SHALL BE USED. PLAIN WASHERS SHALL BE 5/16" "WIDE", USED ON SIGN FACE ONLY.

5. SIGN INSTALLATIONS SHALL BE PLACED SO THAT SUPPORTS ARE NOT PLACED IN DRAINAGE DITCHES.

6. HORIZONTAL CLEARANCES SHOWN PERTAIN TO NON-CURBED SECTIONS. SECTIONS WITH UNMOUNTABLE CURB SHALL HAVE A HORIZONTAL CLEARANCE OF 2'-0" MINIMUM FROM THE CURB FACE TO THE SIGN EDGE.

7. VERTICAL AND HORIZONTAL CLEARANCE BETWEEN SIGNS ON ONE ASSEMBLY SHALL BE A MAXIMUM OF 2" AND A MINIMUM OF 1".

8. GALVANIZED STEEL BEARING PLATES SHALL BE INCLUDED BETWEEN ALL SHEET ALUMINUM SIGNS ATTACHED TO VERTICAL SUPPORTS AT EACH SIGN BOLT LOCATION.

9. SOIL PLATES SHALL BE ATTACHED TO ALL 6 LB. BEAMS BETWEEN POSTS AS DETAILED ON THIS SHEET, EXCEPT WHERE BEAMS ARE PLACED IN CONCRETE MEDIANS AS COVERED IN NOTE 2.

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

TYPICAL PLACEMENT OF SIGNS

TPS-1

DATE
9-27-67
7-12-68
5-13-69
3-5-71
12-21-71
3-7-72

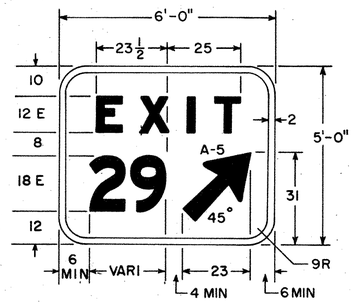
APPROVED _____
ENGINEER OF TRAFFIC

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

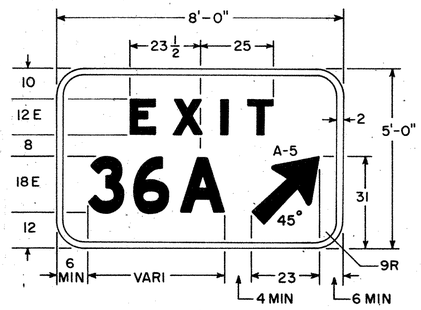
170/191

AUGLAIZE COUNTY
AUG. ~ 75 ~ 4.97

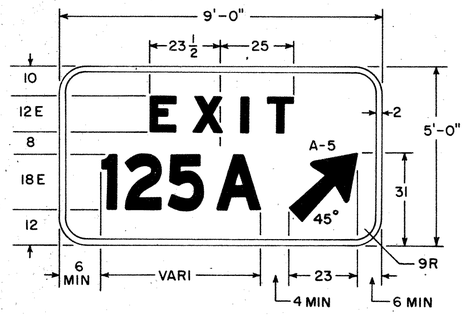
N-12A-72

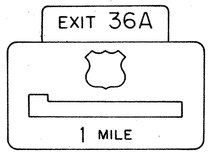


N-12A-96



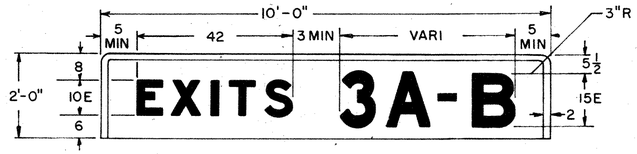
N-12A-108



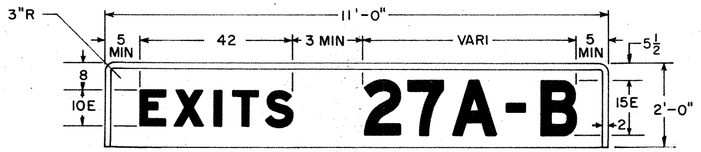


TYPICAL SIGN

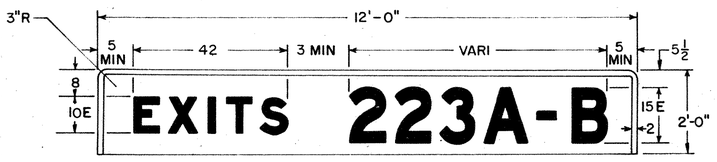
N-12C-120



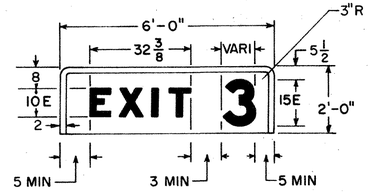
N-12C-132



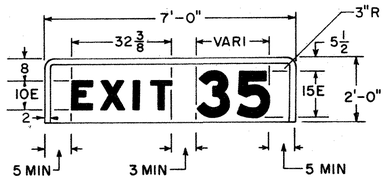
N-12C-144



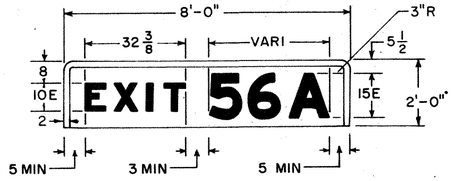
N-12C-72



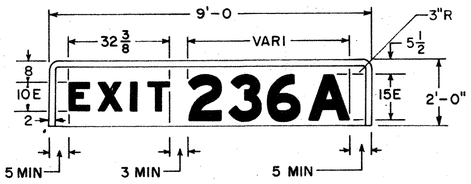
N-12C-84



N-12C-96



N-12C-108



	E		X		I		T		S	TOTAL
10"E	6.75	2.50	7.62	3.37	2.12	3.25	6.75	2.25	7.37	42
			E		X		I		T	TOTAL
12"E			8.37	5.62	9.12	7.62	2.50	6.87	8.37	48½

	E		X		I		T	TOTAL
10"E	6.75	2.50	7.62	3.37	2.12	3.25	6.75	32⅜

NOTE

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

THE LEGEND AND OUTLINE ARE WHITE. THE BACKGROUND IS GREEN.

CODE NUMBER	DIGIT AND/OR LETTER COMBINATION
N-12A-72	ONE OR TWO DIGITS, ONE DIGIT AND ONE LETTER
N-12A-96	THREE DIGITS, TWO DIGITS AND ONE LETTER
N-12A-108	THREE DIGITS AND ONE LETTER
N-12C-72	ONE DIGIT
N-12C-84	TWO DIGITS, OR ONE DIGIT AND ONE LETTER
N-12C-96	THREE DIGITS, OR TWO DIGITS AND ONE LETTER
N-12C-108	THREE DIGITS AND ONE LETTER
N-12C-120	ONE DIGIT AND TWO LETTERS
N-12C-132	TWO DIGITS AND TWO LETTERS
N-12C-144	THREE DIGITS AND TWO LETTERS

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

EXPRESSWAY GUIDE SERIES

N-12A, N-12C

DATE 4-13-71 4-24-72

DRAWN BY: C.R.

APP. BY: R.D. McMillan Jr.

BRUNING 44.560 10943

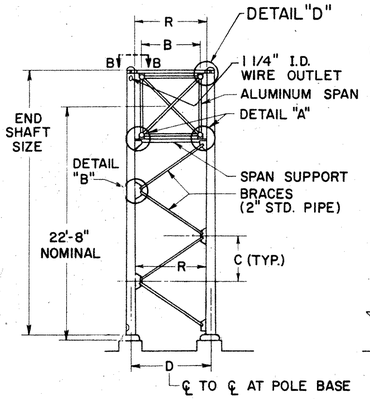
8-17-73 Master

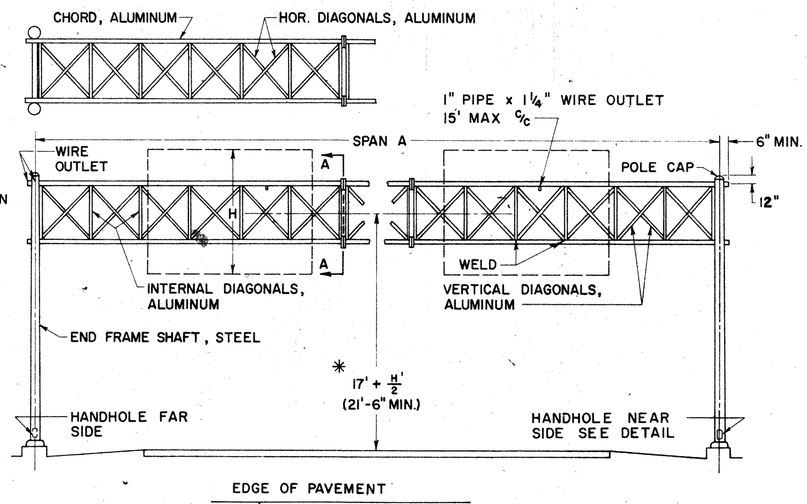
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

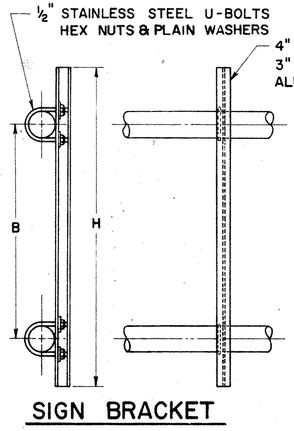
171/191

AUGLAIZE COUNTY
AUG.-75-4.97

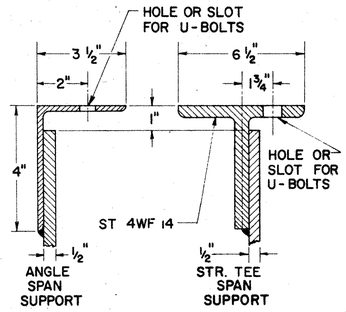
DIRECTION OF TRAFFIC







SIGN BRACKET



SECTION D-D

NOTES

MATERIALS

THE OVERHEAD SPAN TRUSS SHALL BE ALUMINUM AND THE END FRAMES SHALL BE STEEL.

SPAN TRUSS AND END FRAMES, INCLUDING HARDWARE, SHALL BE IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 816 UNLESS OTHERWISE NOTED.

STEEL POLE BASES AND GUSSETS SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A-373.

AFTER FABRICATION THE TAPERED POLES SHALL HAVE A MINIMUM YIELD STRENGTH OF 48,000 PSI.

FABRICATION

THE ENTIRE STEEL END FRAME SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SEC. 711.02

MAXIMUM LENGTH OF SPAN SECTIONS IS 30 FT.

ERECTION

USE A MINIMUM OF 1" CAMBER IN SPAN TRUSS MEMBER FOR A 50' SPAN; ADD 1/4" OF CAMBER FOR EACH 5' OF INCREASE IN SPAN OVER 50'.

PAYMENT

PAYMENT FOR THE GALVANIZED CONDUIT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OVERHEAD SIGN SUPPORTS.

SOILS

THE FOUNDATION DETAILS SHOWN ARE FOR AVERAGE SOIL CONDITIONS (MEDIUM CLAY, CEMENTED SAND AND GRAVEL, SANDY CLAY, OR STIFF CLAY).

FOR POOR SOIL CONDITIONS, INCREASE "D" MIN. BY: 50% IN DRY OR WET SAND, 60% IN SILTY CLAY, 100% IN SOFT CLAY, AND FROM 75% TO 150% IN WET SILT, DEPENDING ON QUICKSAND ACTION.

REINFORCING STEEL

COST OF REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 816 CONCRETE FOR SIGN SUPPORT FOUNDATIONS.

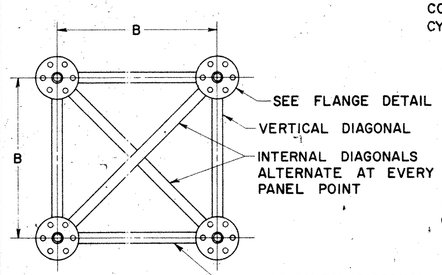
BAR SIZE IS INDICATED IN THE BAR MARK. THE FIRST DIGIT WHERE THREE DIGITS ARE USED AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATE THE BAR SIZE NUMBER.

*FOUNDATION ELEVATION

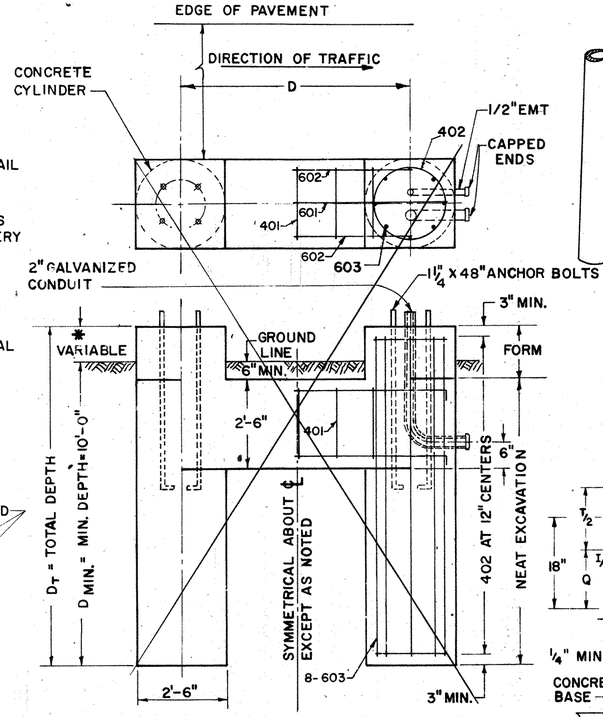
ELEVATION OF TOPS OF FOUNDATIONS SHALL BE BUILT UP SO THAT 17' CLEARANCE IS MAINTAINED OVER THE ENTIRE WIDTH OF PAVEMENT AND SHOULDERS.

DESIGN

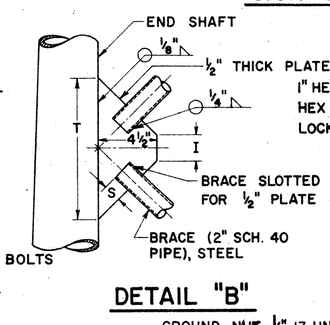
THE DESIGN OF OVERHEAD SUPPORTS IS IN ACCORDANCE WITH A.A.S.H.O. SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, ADOPTED JUNE 12, 1961.



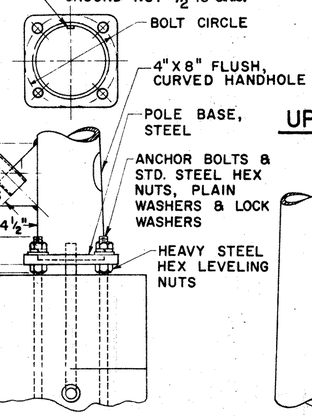
SECTION A-A



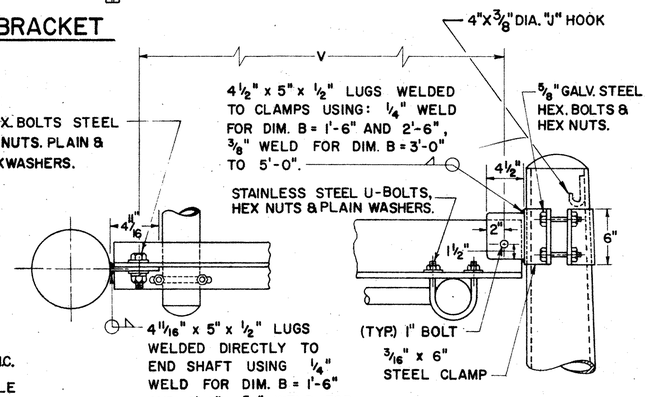
FOUNDATION DETAIL
(RIGHT HAND SHOWN — LEFT HAND OPPOSITE)



DETAIL "B"



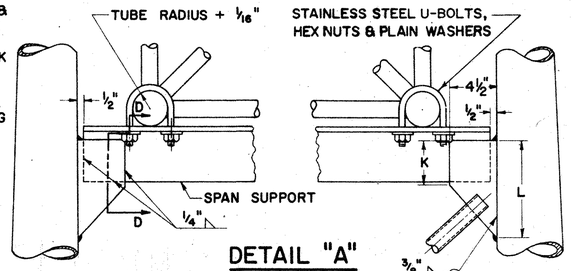
POLE BASE DETAIL



VIEW B-B

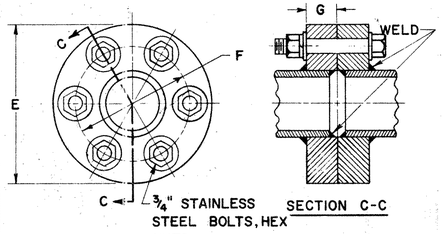
DETAIL "D"

UPPER SPAN SUPPORT (ALTERNATE METHODS)



DETAIL "A"

LOWER SPAN SUPPORT

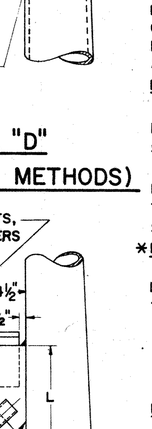


CAST FLANGE, B-26 ALLOY SG 70A-T7 (356-T7)

FLANGE DETAIL

DESIGN NO.	SPAN A	B	C	D	E	END SHAFT	BRACE LENGTH	F	G	I	K	L	P	Q	R	S	T	U BOLTS	V	BOLT CIRCLE	SPAN SUPPORT SECTION D-D	CHORDS	HORIZONTAL AND INTERNAL DIAGONAL	VERTICAL DIAGONAL
1	50' THRU 70'	3'-0"	4'-1 3/4"	4'-5"	9 1/4"	8"X4.5"X 25'-0", 3GA	5'-10 3/16"	7 7/16"	1 3/8"	3 1/2"	4 3/4"	8"	12"	6 5/8"	3'-9"	1 1/2"	10"	5/8"	3'-3 5/8"	11"	SPLIT TEE 3'—8"	4 3/4"X.188"	1.900"X.145"	1.660"X.140"
2	71' THRU 80'	4'-0"	4'-10 1/4"	5'-7"	9 1/4"	8"X6.22"X25'-6", 3GA	6'-7 1/8"	7 7/16"	1 3/8"	5/8"	4 3/8"	7 3/4"	12"	6 1/4"	4'-11"	1 1/2"	9 1/2"	5/8"	4'-5 5/8"	11"	SPLIT TEE 4'—10"	4 3/4"X.188"	2" X.188"	1.900"X.145"
3	81' THRU 86'	4'-0"	4'-10 1/4"	5'-7"	11"	8"X6.22"X25'-6", 3GA	6'-7 1/8"	8 1/2"	1 1/2"	5/8"	4 3/8"	7 3/4"	12"	6 1/4"	4'-11"	1 1/2"	9 1/2"	5/8"	4'-5 5/8"	11"	SPLIT TEE 4'—10"	5 1/2"X.250"	2" X.188"	1.900"X.145"
4	86' THRU 110'	5'-0"	4'-8 1/2"	6'-7"	11"	8"X6.18"X26'-0", 3GA	7'-3 1/4"	8 1/2"	1 1/2"	—	3 1/2"	7 3/4"	12"	7 1/4"	5'-11"	1 3/4"	11 1/4"	3/4"	5'-5 5/8"	11"	SPLIT TEE 5'—10"	5 1/2"X.250"	2 1/2"X.188"	2 1/2"X.188"

REINFORCEMENT SCHEDULE			
MARK NO.	LENGTH	TYPE	
401	12"C/C	8'-6"	102
402	12"C/C	7'-6"	103
601	4	D+4'-0"	101
602	8	D+2'-0"	101
603	32	D_T — 6"	STR.



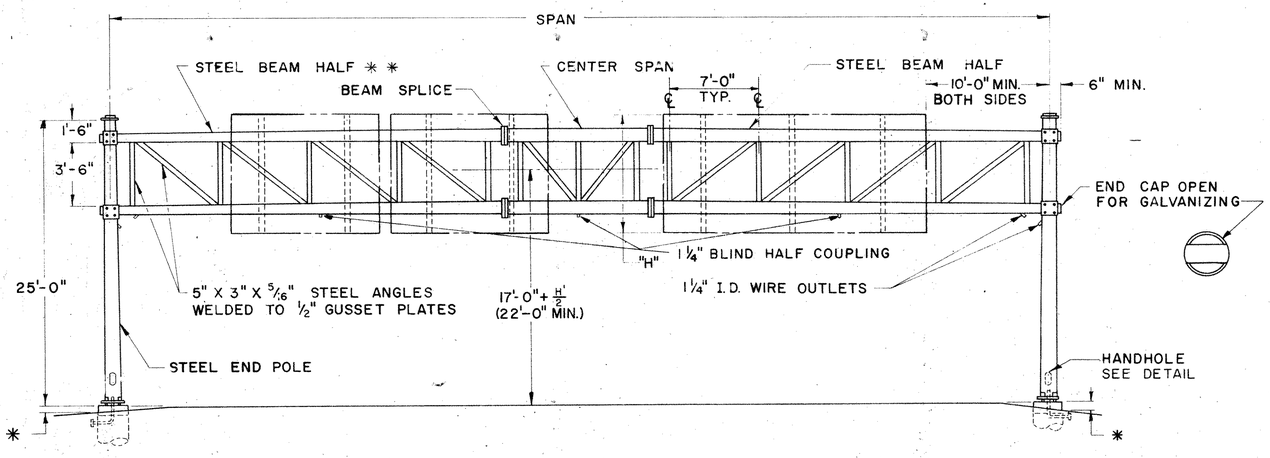
BUREAU OF TRAFFIC OHIO DEPARTMENT OF HIGHWAYS		
OVERHEAD SIGN SUPPORTS	816 No. 7.5	DATE 5-2-62, 7-25-62, 4-20-64, 6-20-66
APPROVED Robert E. Comer ENGINEER OF TRAFFIC		

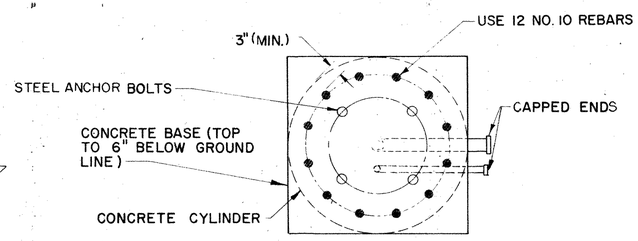
500 SQ. FT. SIGN AREA — OVERHEAD SIGN SUPPORT, 816 NO. 7.5

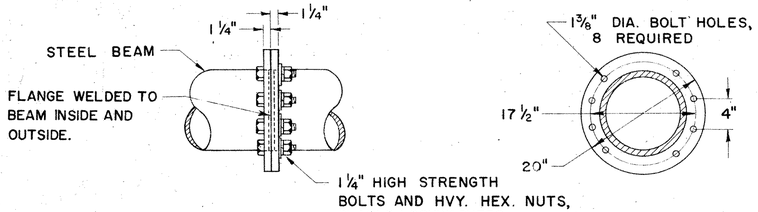
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

192
191

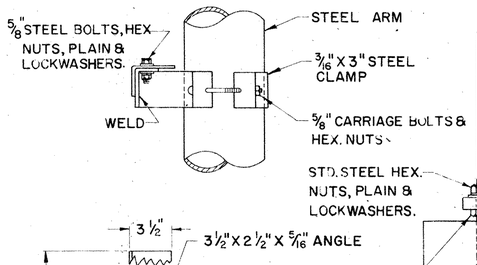
AUGLAIZE COUNTY
AUG.-75-4.97



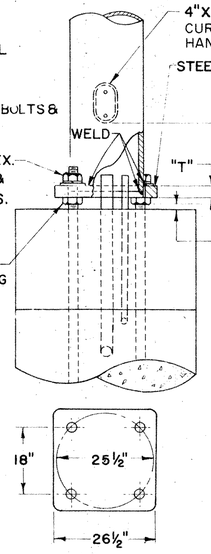




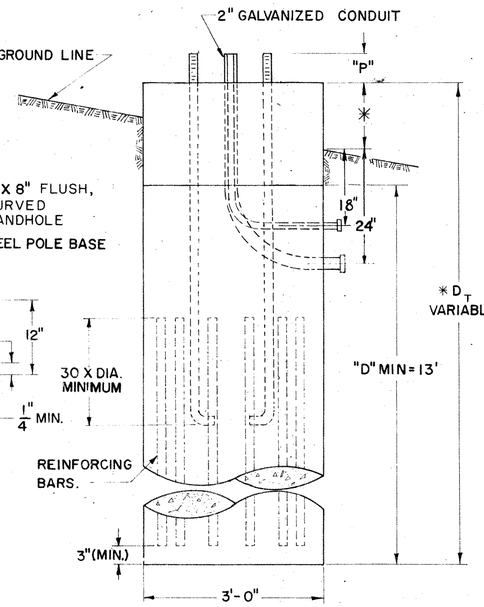
BEAM SPLICE DETAIL



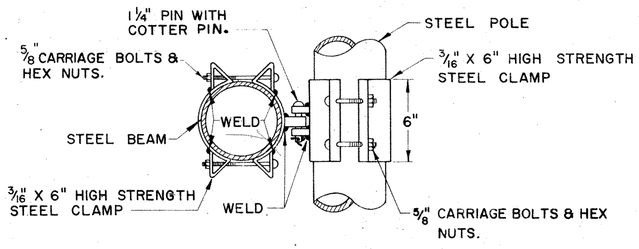
SIGN ATTACHMENT DETAIL



POLE DETAIL



FOUNDATION DETAIL



BEAM ATTACHMENT DETAIL

NOTES

FABRICATION – ALL PORTIONS OF THE SIGN SUPPORT, INCLUDING SIGN ATTACHMENTS, SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF A.S.T.M. DESIGNATIONS A-123 AND A-153. THE CONDUIT SHALL BE GALVANIZED IN ACCORDANCE WITH SEC. 625.13 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OVERHEAD SIGN SUPPORTS FOR PAYMENT.

* FOUNDATION – THE TOP ELEVATION OF FOUNDATIONS SHALL BE VARIED SO AS TO MAINTAIN THE PROPER CLEARANCE BETWEEN THE CROSS-MEMBER CENTER LINE AND THE HIGHWAY CROWN.

* * ERECTION – WHEN THE SPAN IS LESS THAN THE MAXIMUM, DECREASE THE LENGTH OF THE TAPERED BEAM-HALVES ON THE SMALL DIA. END.

MATERIAL – STEEL POLE BASES, AND FLANGES SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A30 GRADE B. HIGH STRENGTH STEEL BOLTS SHALL CONFORM TO ASTM SPECIFICATION A193 GRADE B7. AFTER FABRICATION TAPERED POLES AND BEAM HALVES SHALL HAVE A MINIMUM YIELD STRENGTH OF 48,000 PSI.

SOILS – THE FOUNDATION DETAILS SHOWN ARE FOR AVERAGE SOIL CONDITIONS (MEDIUM CLAY, CEMENTED SAND AND GRAVEL, SANDY CLAY, OR STIFF CLAY.) FOR POOR SOIL CONDITIONS, INCREASE "D" MIN. BY: **50% IN DRY OR WET SAND, 60% IN SILTY CLAY.** 100% IN SOFT CLAY, AND FROM 75% TO 150% IN WET SILT, DEPENDING ON QUICKSAND ACTION.

REINFORCING STEEL – REINFORCING STEEL AS SHOWN IN DETAIL SHALL BE INSTALLED WHEN "D"$_T$ EXCEEDS THE ANCHOR BOLT LENGTH BY MORE THAN 3 FT. THE COST AND PLACEMENT OF REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 816 CONCRETE FOR SIGN SUPPORT FOUNDATIONS.

DESIGN

THE DESIGN OF OVERHEAD SUPPORTS IS IN ACCORDANCE WITH A.A.S.H.O. SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, ADOPTED JUNE 12, 1961.

DESIGN NO.	SPAN	END POLE SIZE	BEAM HALF SIZE * *	CENTER SPAN FOR MAXIMUM SPAN	DIM. P	DIM. T	ANCHOR BOLTS	MAX SIGN AREA SIGN SPREAD, FT. 30	40	50	60	70
1	50'	0 Ga. 18" X 14.5" X 25'-0"	.250" X 14.25" X 10.68" X 25'-6"	NONE	8¼"	2"	2" X 144"	540				
2	60'	0 Ga. 18" X 14.5" X 25'-0"	.250" X 14.25" X 9.98" X 30'-6"	NONE	8¼"	2"	2" X 144"	430	480			
3	70'	0 Ga. 18" X 14.5" X 25'-0"	.250" X 1425" X 10.4" X 27'-6"	.312" X 14.238" X 16'-0"	9½"	2½"	2¼" X 144"	410	460	530		
4	80'	0 Ga. 18" X 14.5" X 25'-0"	.250" X 14.25" X 10.19" X 29'-0"	.312" X 14.238" X 23'-0"	9½"	2½"	2¼" X 144"	360	400	440	490	
5	90'	0 Ga. 18" X 14.5" X 25'-0"	.250" X 14.25" X 9.98" X 30'-6"	.312" X 14.238" X 30'-0"	9½"	2½"	2¼" X 144"	310	340	375	410	460

FOR REFERENCE ONLY

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

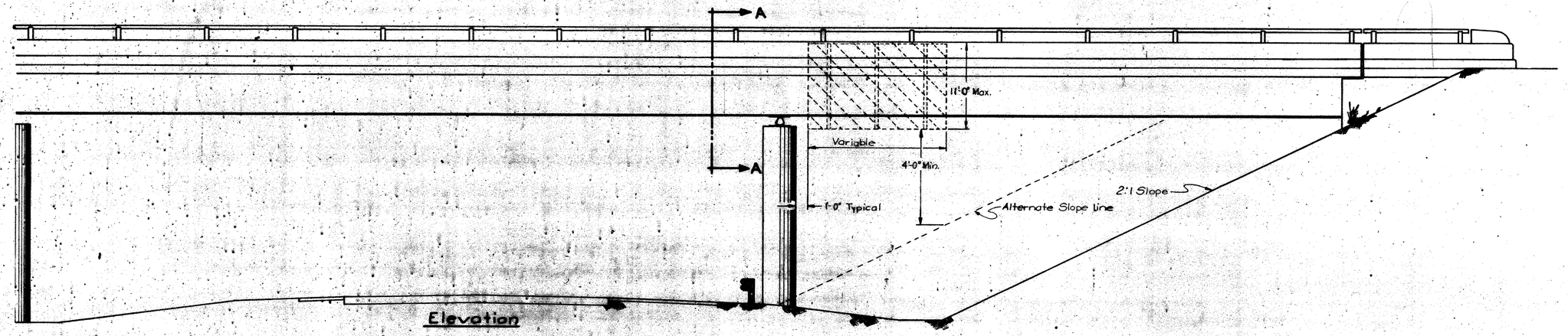
OVERHEAD SIGN SUPPORT | 816 No. 14.5 | DATE 11-13-61, 4-12-62, 7-5-62

APPROVED Robert E. Cowen
ENGINEER OF TRAFFIC

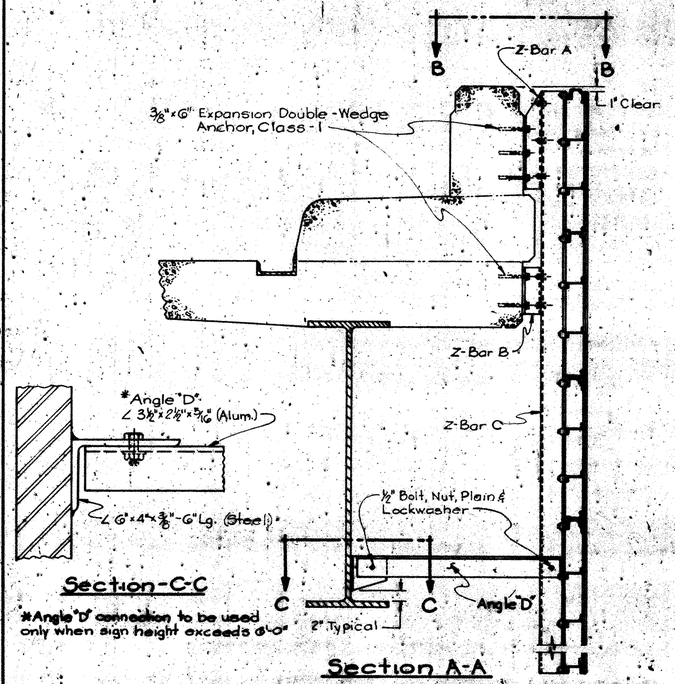
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

173/191

AUGLAIZE COUNTY
AUG. - 75 - 4.93



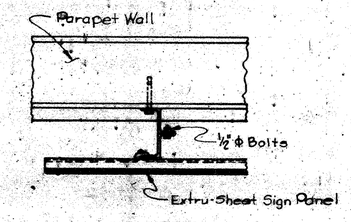
Elevation



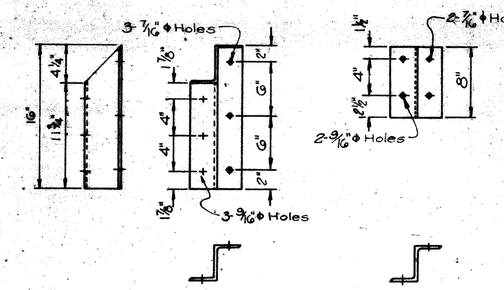
Section-C-C

*Angle "D" connection to be used only when sign height exceeds 6'-0"

Section A-A



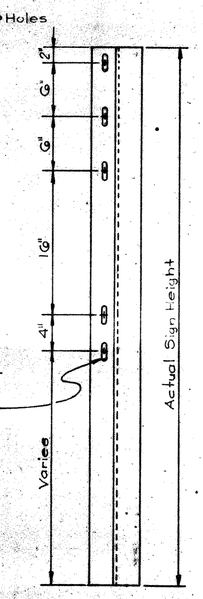
View B-B



Z-Bar "A"

Z-Bar "B"

All "Z" Members Shall Be Alum. 4"×3 1/16"×1/4" @ 8.5#/ft



Z-Bar "C"

BRACKET SPACING							
Sign Length	No. of Brackets	Spacing Factors *					
6'-0" to 11'-0"	2	.22L	.56L	.22L			
12'-0" to 17'-0"	3	.14L	.36L	.36L	.14L		
18'-0" to 23'-0"	4	.11L	.26L	.26L	.26L	.11L	
24'-0" to —	5	.08L	.21L	.21L	.21L	.21L	.08L

* L = Sign Length Example: If "L" = 6'-0" the space equals .22 × 6'-0" or 1.32'.

OHIO DEPARTMENT OF HIGHWAYS
OFFICE OF DESIGN SERVICES
TRAFFIC CONTROL SECTION

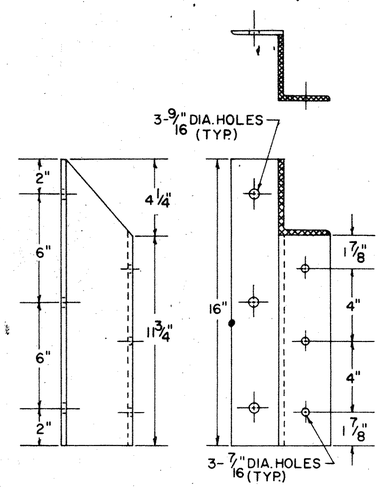
TITLE	NO.
SPECIAL SIGN SUPPORT	816 S.P.L. 5

Designed	Drawn	Checked	Date	Revised	Revised
A.H.H.	G.J.		11-9-67		

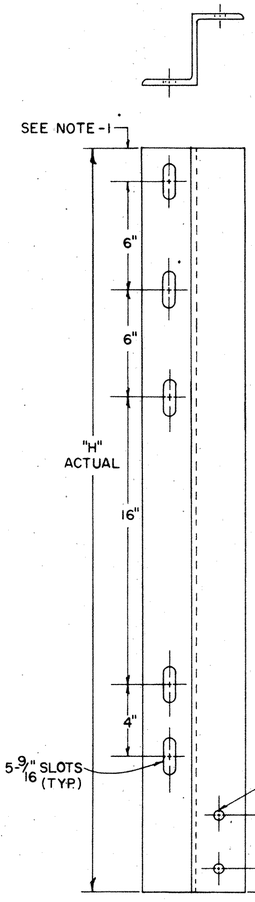
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

174
191

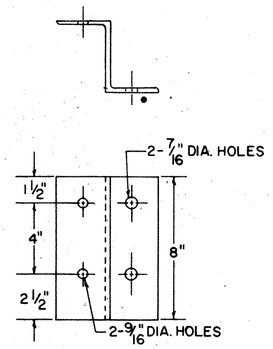
AUGLAIZE COUNTY
AUG. - 75 - 4.97



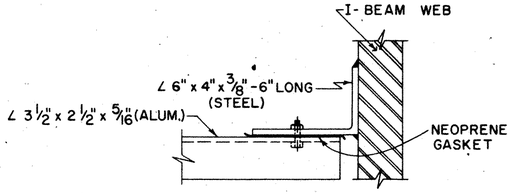
"Z" BAR-A
(4"x3 1/16"x 1/4" @ 2.85 LB.)



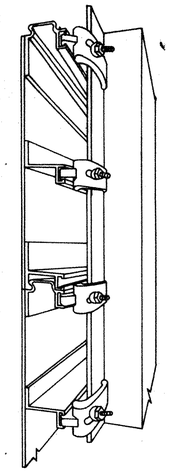
"Z" BAR-C
(4"x3 1/16"x 1/4" @ 2.85 LB.)



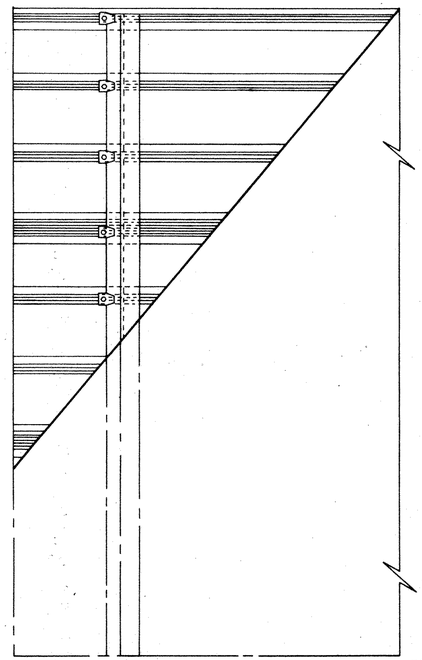
"Z" BAR-B
(4"x3 1/16"x 1/4" @ 2.85 LB.)



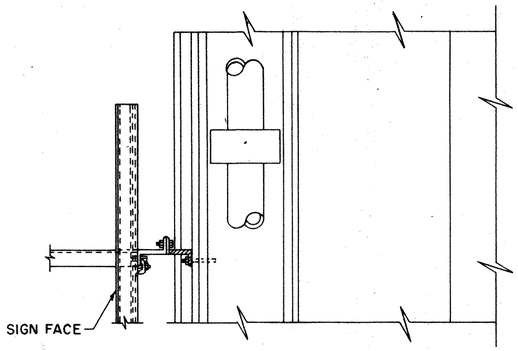
SECTION A-A



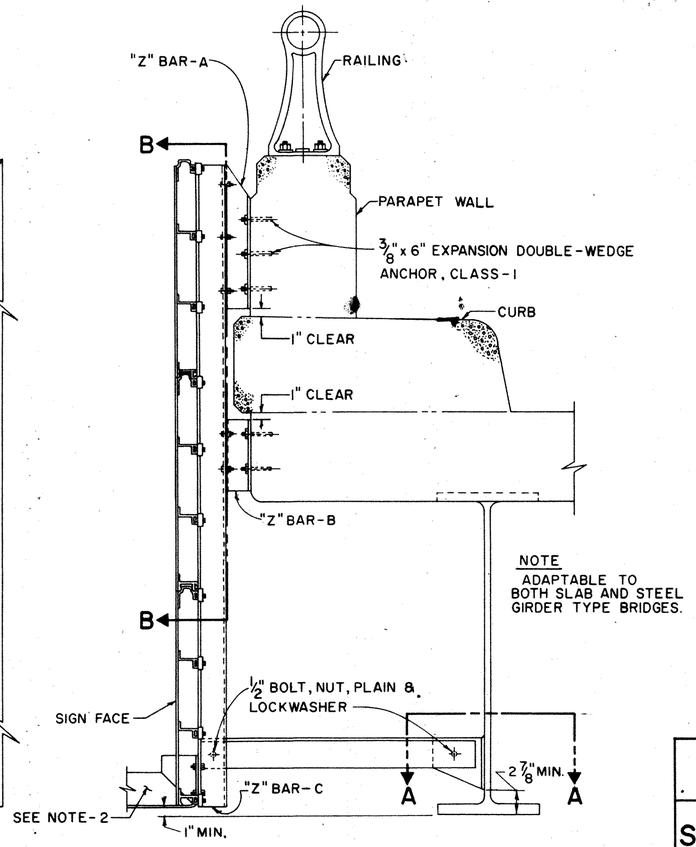
CLAMP ASSEMBLY



SECTION B-B



TOP VIEW



SIDE VIEW BRIDGE MOUNT

NOTES

ALL STRUCTURAL SHAPES TO BE ALUMINUM, EXCEPT AS NOTED.

EXPANSION BOLTS TO BE GALVANIZED STEEL.

(1.) THIS DIMENSION VARIES FOR SIGNS OVER 4'-6" ON SLAB TYPE BRIDGES AND SIGNS OVER 5'-6" ON STEEL GIRDER TYPE BRIDGES.

(2.) FOR ELECTRICAL DETAIL SEE DRAWINGS,
E1-1 PAGE _____.
E1-2 PAGE _____.

(3.) ALL MATERIALS SHALL CONFORM TO THE STATE OF OHIO, CONSTRUCTION & MATERIALS SPECIFICATIONS, AND THE SUPPLEMENTAL SPECIFICATIONS 816, OR AS OTHER-WISE SPECIFIED.

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

SPECIAL SIGN SUPPORT

SPL-816

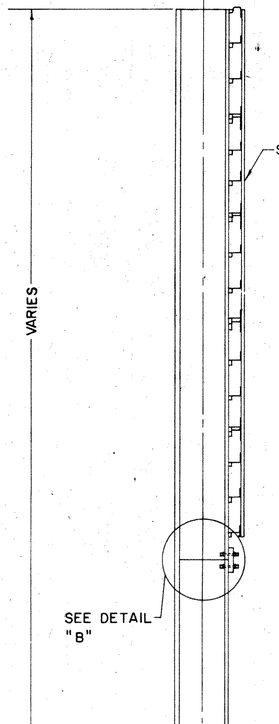
DATE
1-24-68
4-24-69

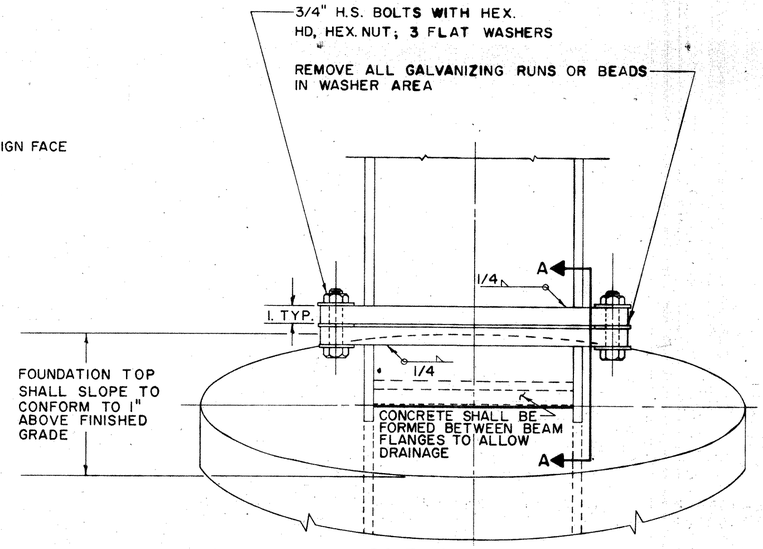
APPROVED _____
ENGINEER OF TRAFFIC

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

178
191

AUGLAIZE COUNTY
AUG.- 75- 4.97

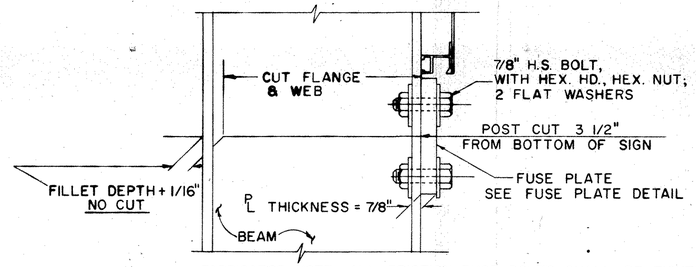




BOLTING PROCEDURE

1. ASSEMBLE POST TO STUB W/BOLTS & ONE FLAT WASHER ON EACH BOLT BETWEEN PLATES.
2. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE W/12" TO 15" WRENCH TO BED & TO CLEAN BOLT THREADS. LOOSEN EACH BOLT IN TURN & RETIGHTEN BOLTS IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE OF 750 IN. LBS.
3. BURR THREADS AT JUNCTION W/NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

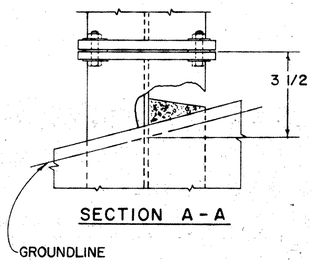
NOTE: TIGHTEN THE H.S. BOLTS IN THE BASE CONNECTION ONLY TO GIVEN TORQUE DO NOT OVER TIGHTEN



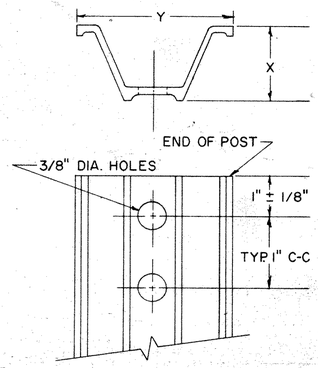
FABRICATOR NOTE: ALL FRICTION FUSE BOLTS SHALL BE TIGHTENED IN THE SHOP FOLLOWING A METHOD APPROVED BY THE ENGINEER. TIGHTENING SHALL BE TO SUCH A DEGREE AS TO OBTAIN MINIMUM RESIDUAL TENSION IN EACH BOLT OF 36,050 LBS.

NOTE: INSTALL FUSE PLATE WITH NOTCHES TOWARD BASE

DETAIL "B"

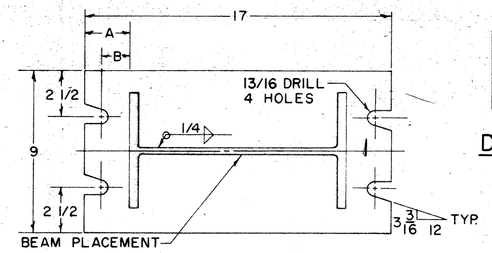


SECTION A-A



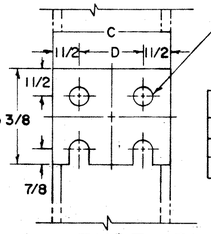
WEIGHT PER FOOT	X ± 3/32"	Y ± 1/8"
2.00 #	1 15/32"	3 1/16"
3.00 #	1 7/8"	3 1/2"
4.00 #	2"	3 5/8"

DRIVE POST DETAIL



BEAM SIZE	A	B
W 8 X 17	4 1/2"	3 5/8"
W 10 X 21	3 1/2"	2 5/8"
W 12 X 31	2 1/2"	1 5/8"

BASE PLATE DETAIL
(TOP VIEW)



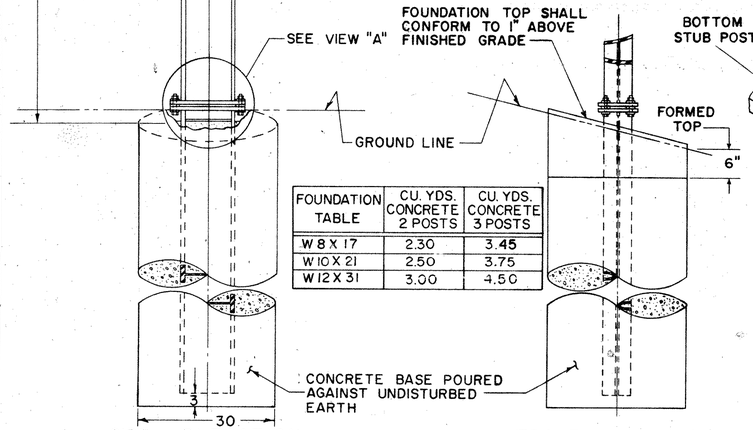
BEAM SIZE	C	D
W 8 X 17	5 1/4"	2 1/4"
W 10 X 21	5 3/4"	2 3/4"
W 12 X 31	6 1/2"	3 1/2"

FUSE PLATE DETAIL

NOTES: ALL MATERIALS SHALL CONFORM TO THE STATE OF OHIO, CONSTRUCTION & MATERIALS SPECIFICATIONS OR AS OTHERWISE SPECIFIED

1) 511 FOUNDATIONS
2) 711.01 STRUCTURAL STEEL SHAPES & PLATES
3) 711.09 H.S. STEEL BOLTS, NUTS & WASHERS

ALL DIMENSIONS IN INCHES UNLESS OTERWISE SHOWN



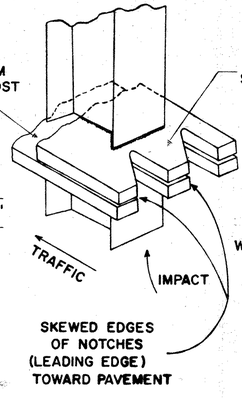
FOUNDATION TABLE	CU. YDS. CONCRETE 2 POSTS	CU. YDS. CONCRETE 3 POSTS
W 8 X 17	2.30	3.45
W 10 X 21	2.50	3.75
W 12 X 31	3.00	4.50

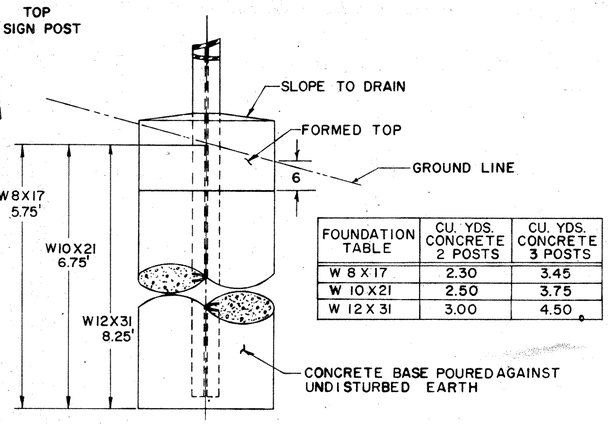
SIDE ELEVATION

FRONT ELEVATION

BREAK-AWAY SUPPORT

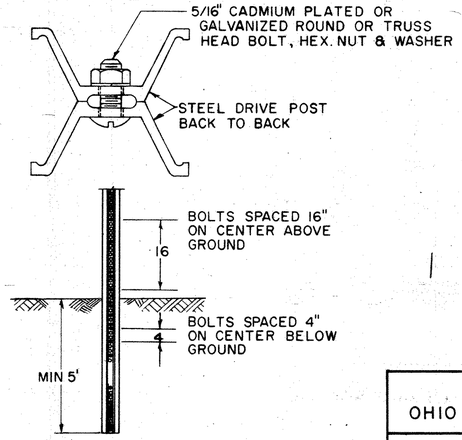
BREAKAWAY SIGN SUPPORT BASE PLATE ORIENTATION





FOUNDATION TABLE	CU. YDS. CONCRETE 2 POSTS	CU. YDS. CONCRETE 3 POSTS
W 8 X 17	2.30	3.45
W 10 X 21	2.50	3.75
W 12 X 31	3.00	4.50

FRONT ELEVATION
STANDARD SUPPORT



6# BEAM DETAIL

STRUCTURAL SUPPORTS

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

GROUND MOUNTED SIGN SUPPORTS

GMSS

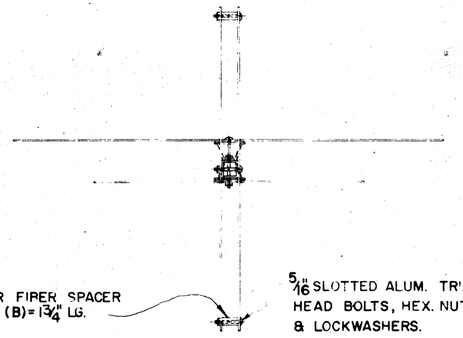
DATE
5-10-68
7-12-68
5-23-69
9-16-69
12-20-71

APPROVED _____
ENGINEER OF TRAFFIC

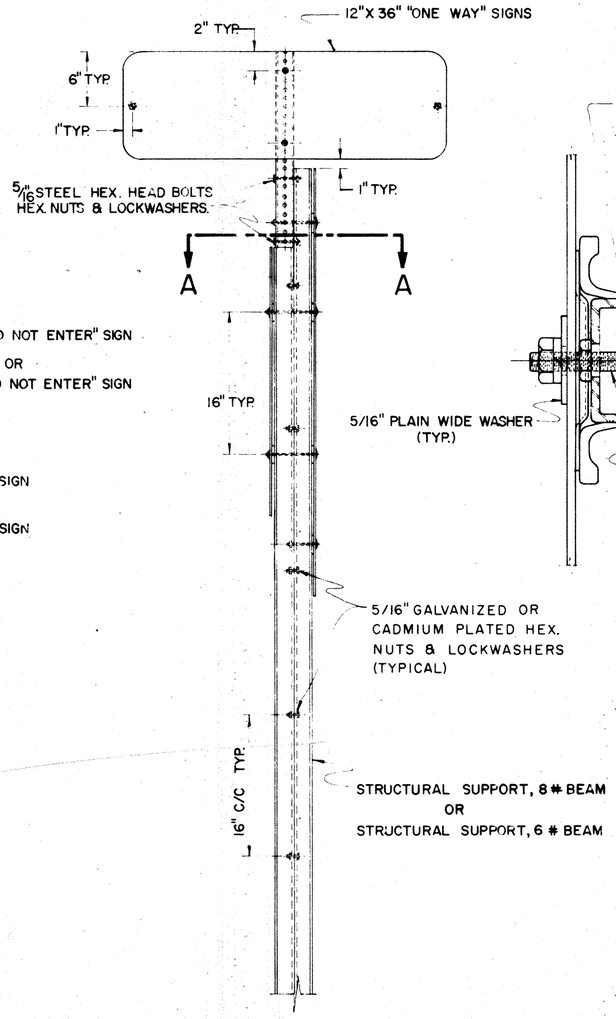
2	OHIO		

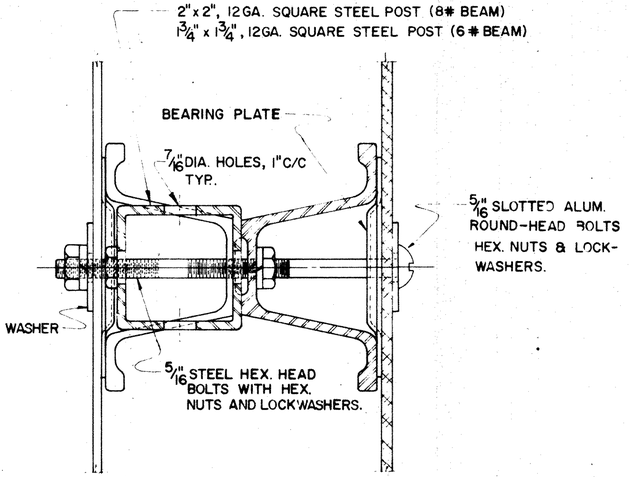
179
191

AUGLAIZE COUNTY
AUG. - 7.5 - 4.97



"ONE WAY", "STOP", "DO NOT ENTER",
SIGN INSTALLATION.





SECTION A-A

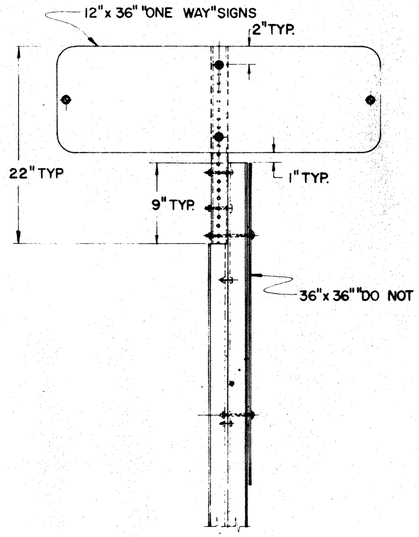
NOTES

MATERIALS

ALL SIGN MATERIALS SHALL BE IN ACCORDANCE WITH SUPPLEMENT SPECIFICATION 815.

ALL STRUCTURAL MATERIALS SHALL BE IN ACCORDANCE WITH SUPPLEMENT SPECIFICATION 816.

FOR SPECIFICATIONS FOR THE 2" & 1 3/4" SQUARE STEEL POST SEE GENERAL NOTES, SHEET NO. ____.



"ONE WAY", "DO NOT ENTER"
SIGN INSTALLATION

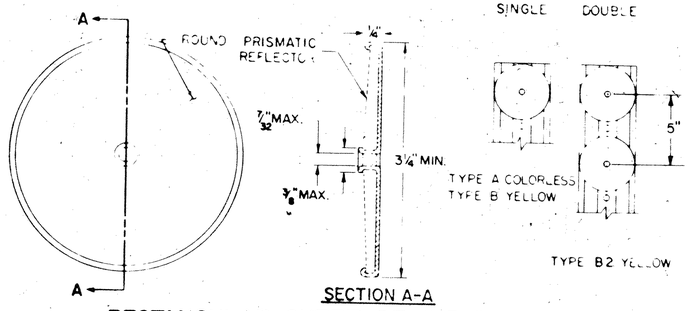
BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

SPECIAL "ONE WAY" SIGN SUPPORT DETAILS	SOW	DATE 2-7-66 4-18-67
APPROVED ____ ENGINEER OF TRAFFIC		

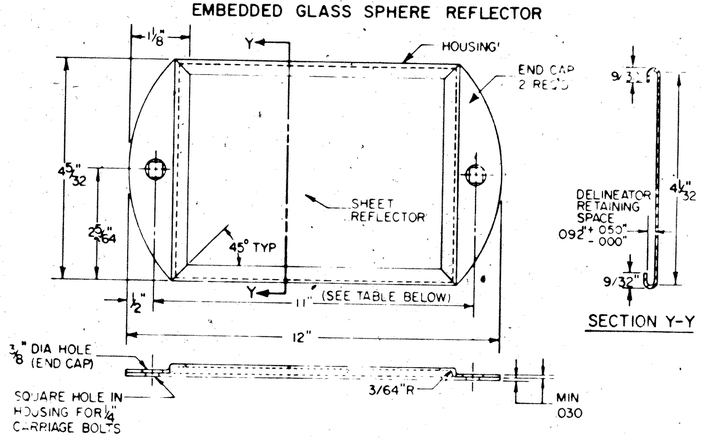
SPECIAL "ONE WAY" SIGN SUPPORT DETAILS

8-17-73 Master

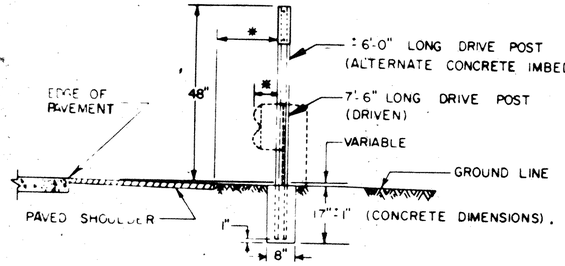
ROUND DELINEATORS



RECTANGULAR SHEET DELINEATORS

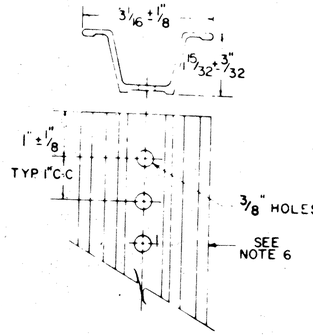


RECTANGULAR TYPES
C - COLORLESS
D - YELLOW
E - RED



LATERAL PLACEMENT OF DELINEATORS

* DELINEATORS SHALL BE 6" BEHIND FACE OF TYPICAL GUARDRAIL LOCATION BUT WITH A MINIMUM DISTANCE OF 2'6" FROM EDGE OF PAVED SHOULDER WHERE GUARDRAIL IS NOT PRESENT



2 LB./FT. DELINEATOR DRIVE POST



TAMPER RESISTANT FASTENERS SHALL BE USED TO FASTEN DELINEATORS TO POST AS/OR SIMILAR TO ONE SHOWN ABOVE.

TAMPER RESISTANT FASTNERS

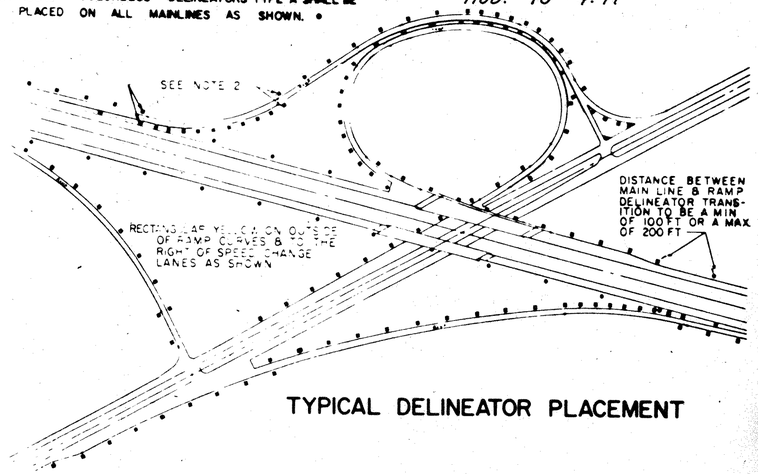
NOTE

(A) RECTANGULAR YELLOW DELINEATORS TYPE D SHALL BE PLACED ON ALL RAMPS AS SHOWN. *

(B) ROUND COLORLESS DELINEATORS TYPE A SHALL BE PLACED ON ALL MAINLINES AS SHOWN. *

AUGLAIZE COUNTY
AUG. - 75 - 4.97

(180/191)



TYPICAL DELINEATOR PLACEMENT

DELINEATOR SPACING ON RAMP HORIZONTAL CURVES

RADII, FT.		SPACING ON CURVE	* TRANSITION SPACING		
FROM	TO				
TANGENT	1,801	100'	100'		100'
1,800	1,401	80'	100'		100'
1,400	1,001	70'	100'		100'
1,000	751	60'	100'		100'
750	551	50'	80'		100'
550	326	40'	70'		100'
325	——	30'	60'		100'

* SUCH AS 40' TO 70' TO 100' OR 100' TO 80' TO 50' OR ANY OTHER COMBINATION SHOWN ABOVE.

NOTES

1. TYPE A DELINEATORS ON THE RIGHT OF THE THROUGH ROADWAY ARE TO BE SPACED AT 200 FT. INTERVALS THROUGHOUT, REGARDLESS OF CURVES.

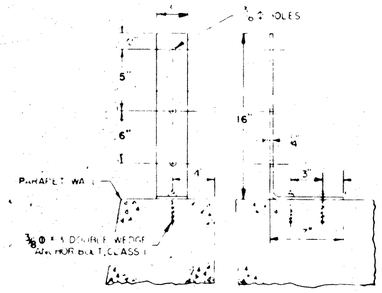
2. WHEN CROSSING FROM LEFT TO RIGHT OR FROM RIGHT TO LEFT ON THE RAMPS THE DELINEATORS AT THE POINT OF CROSSOVER ARE TO BE AT THE SAME STATION ON EACH SIDE.

3. NO DELINEATORS ARE TO BE PLACED IN PAVED BERM

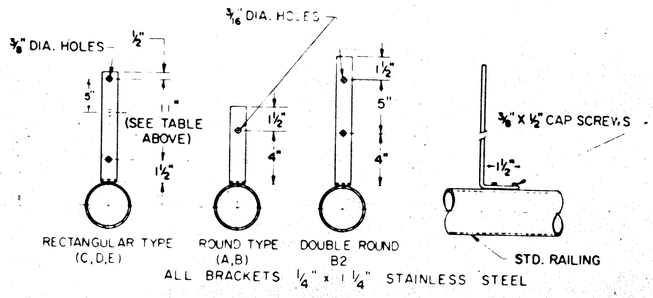
4. WHEN RADII OF CURVE ON RAMPS REQUIRE 100' SPACING THE DELINEATORS SHALL BE PLACED ON THE RIGHT IN RELATION TO THE FLOW OF TRAFFIC.

5. IN ADDITION TO MATERIALS LISTED IN 620.02, RECTANGULAR SHEET REFLECTORS MAY CONSIST OF REFLECTIVE SHEETING COMPOSED OF GLASS SPHERES IMBEDDED IN A WEATHER PROOF SYNTHETIC RESIN SHEET, THE REFLECTIVE FACE OF WHICH SHALL BE PLACED BEHIND AND SEALED TO A WEATHERPROOF RIGID PLASTIC FACE OF METHYL METHACRYLATE OF 0.060 INCHES MINIMUM THICKNESS.

6. SUPPLEMENTING THE DRIVE POST DETAILS SHOWN, ALTERNATE POST SECTIONS MAY BE FURNISHED. ANY ALTERNATE SECTION FURNISHED SHALL MEET ALL THE MATERIAL REQUIREMENTS OF 620, HAVE A SHAPE APPROXIMATELY AS DETAILED, AND HAVE A MOMENT OF INERTIA EQUAL TO OR GREATER THAN THE SECTION DETAILED. THE REQUIREMENTS OF 712.20 REALTIVE TO MAXIMUM WEIGHT TOLERANCE ARE HEREBY WAIVED. NO ALTERNATE SECTION FURNISHED SHALL EXCEED THE WEIGHT OF THE CORRESPONDING SECTION BY MORE THAN 10 PERCENT.



BRIDGE PARAPET BRACKET



BRIDGE RAIL BRACKET

BUREAU OF DESIGN SERVICES
DIVISION OF HIGHWAYS
OHIO DEPARTMENT OF TRANSPORTATION

DELINEATOR DETAILS

DATE 1/1/73 3/12/73

APPROVED _____
ENGINEER OF DESIGN SERVICES

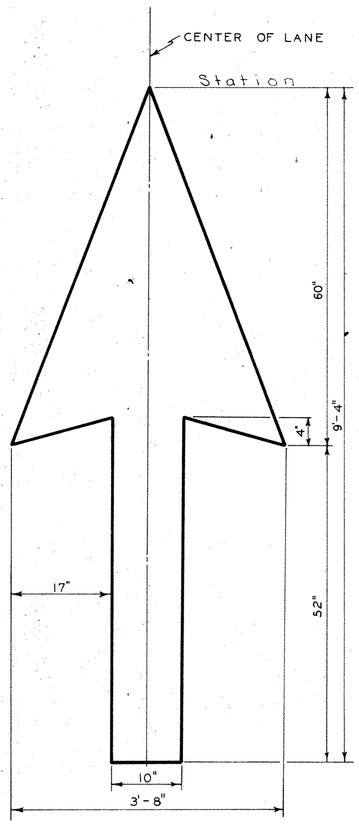
LGD 9-71
WLR 9-71

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

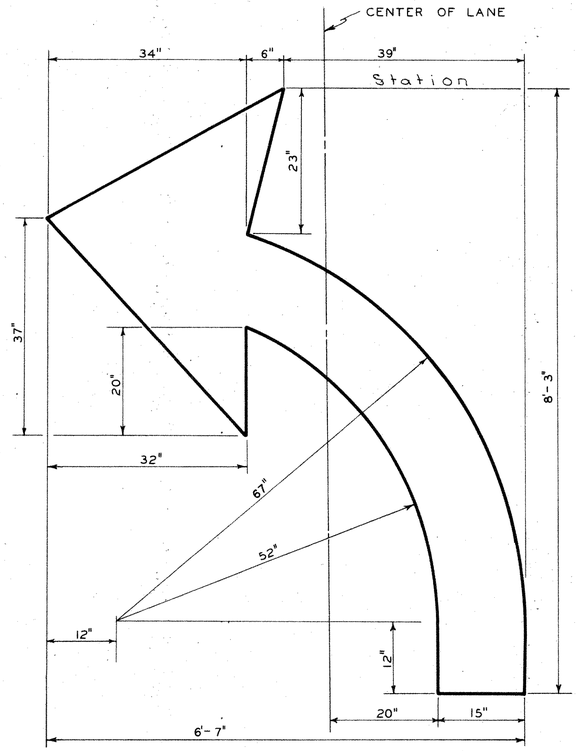
181
191

AUGLAIZE COUNTY
AUG.-75-4.97

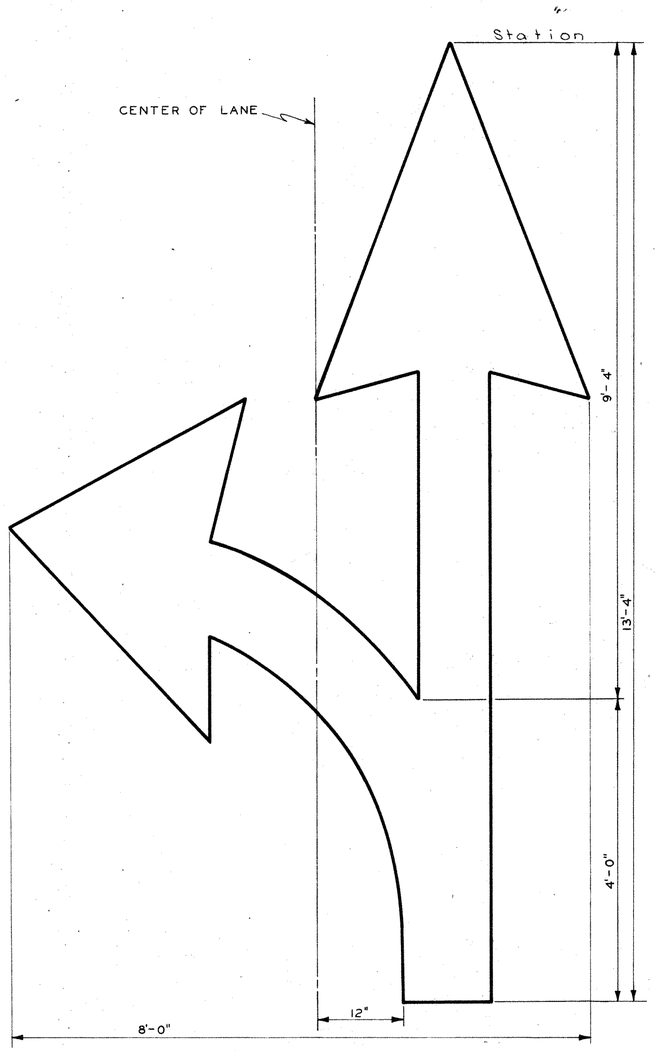
PAVEMENT ARROWS



THROUGH ARROW



TURN ARROW



COMBINED ARROWS

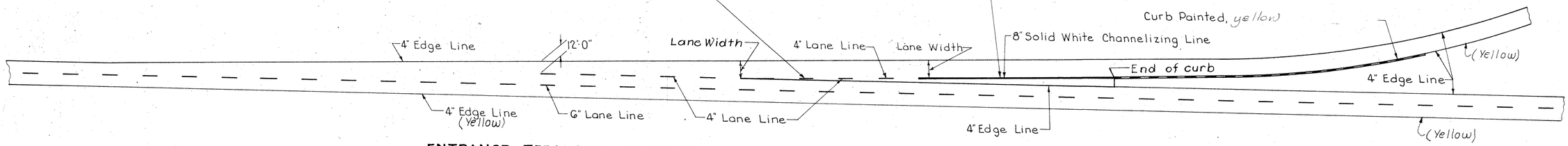
NOTE: THE LANE ARROWS SHALL BE PLACED IN THE LOCATIONS AS SHOWN ON THE PLANS TO CONFORM TO ITEM NO. 621 AND DEFINED IN SECTION 621.131.

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

182
191

AUGLAIZE COUNTY
AUG. ~ 75 - 4.97

The 8" Channelizing line is an extension of the left edge of the ramp, and is parallel to the right edge.
The solid line must be carried to within 6'-0" of the edge of the through lane or to the end of the ramp curve if closer.
The 4" dashed line should continue to the edge of the through lane.



ENTRANCE TERMINAL - TAPERED ACCELERATION LANE

÷NOTES÷

EDGE LINES: Shall be placed in the locations as shown to conform to Item Nº G21 and defined in section G21.06.

LANE LINES: Shall be placed in the locations as shown to conform to Item Nº G21 and defined in section G21.07.

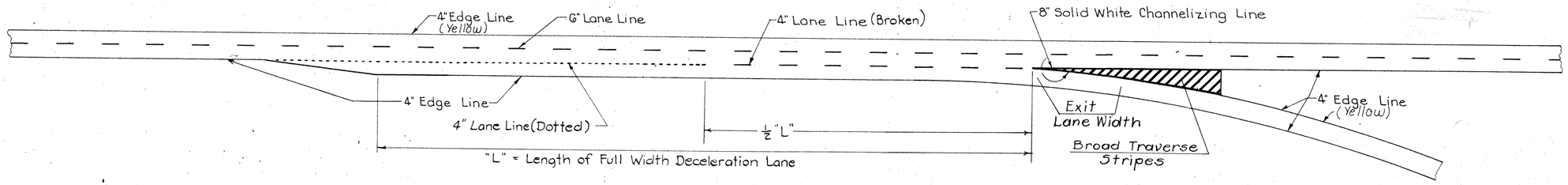
CHANNELIZING LINES: Shall be continuous white beaded stripes 8" in width placed in the locations as shown to conform to Item Nº G21 and defined in section G21.09.

BROAD TRAVERSE STRIPES WITHIN EXIT RAMP MARKINGS

Shall be 2' wide white beaded stripes set at a 45° angle to the center line of the through pavement and slanted in the direction of the flow of traffic on said pavement. Space between the 2' diagonal stripes shall be 12' as measured parallel to the center line of the through pavement
Paint on the diagonal stripes shall be applied at the rate of one gallon to each 100 square feet and glass beads shall be applied at the rate of six pounds per gallon of paint. Diagonal white stripes shall be placed between the two 8" white channelizing lines at exit ramps as shown to conform to Item Nº G21 and defined in section G21.11.

AIR SPEED LINES: Shall be placed in the locations shown. The location of these lines shall be certified by a registered professional surveyor.

EXIT TERMINAL - PARALLEL DECELERATION LANE

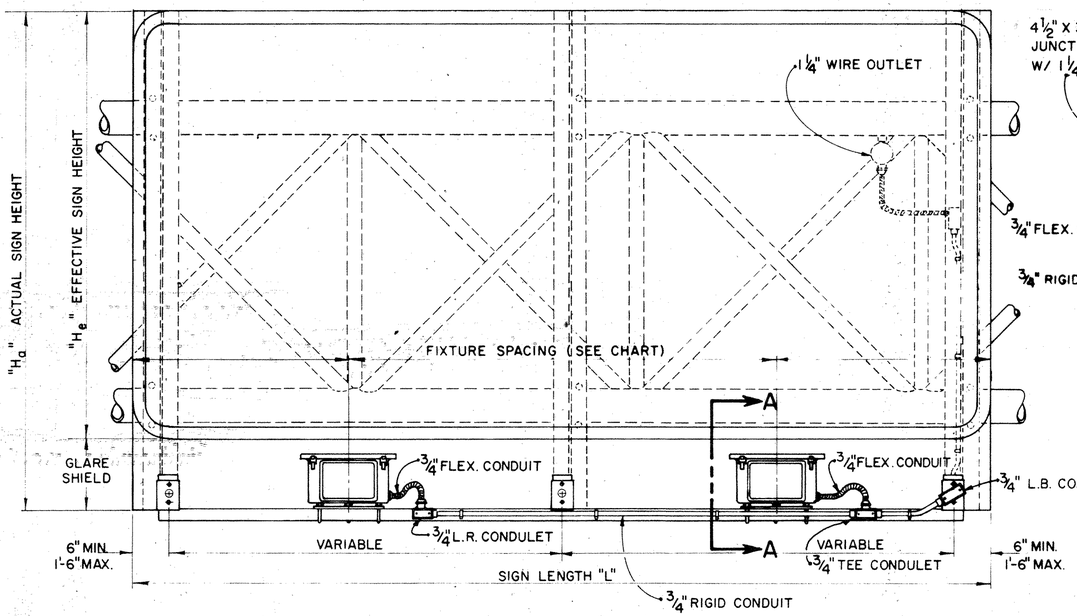


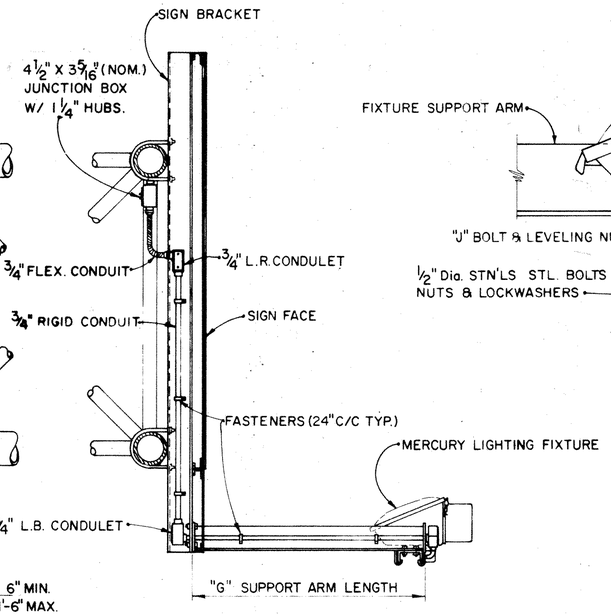
PAVEMENT MARKING DETAILS

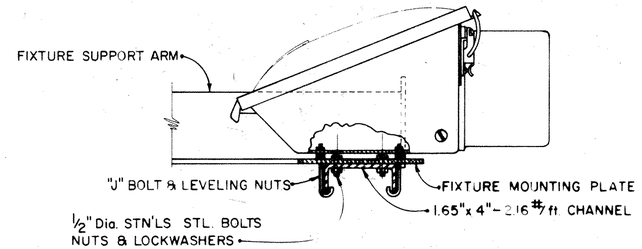
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

182A / 191

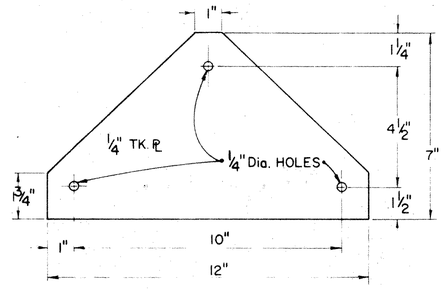
AUGLAIZE COUNTY
AUG. - 75 - 4.97







SECTION A-A



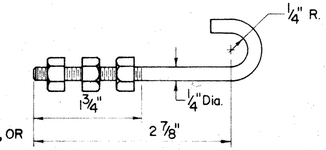
SIGN LENGTH "L"	NO. OF FIXTURES	LIGHT FIXTURE SPACING						SUPPORT ARM SPACING					NO. OF SIGN BRACKETS
4'-0"	1	2'-0"	2'-0"					6"	36"	6"			2
5'-0"	1	2'-6"	2'-6"					6"	48"	6"			2
6'-0"	1	3'-0"	3'-0"					6"	60"	6"			2
7'-0"	1	3'-6"	3'-6"					6"	72"	6"			2
8'-0"	1	4'-0"	4'-0"					10 3/8"	75 3/8"	10 1/4"			2
9'-0"	1	4'-6"	4'-6"					16 3/8"	75 3/8"	16 1/4"			2
10'-0"	1	5'-0"	5'-0"					10 3/8"	99 3/8"	10 1/4"			2
11'-0"	1	5'-6"	5'-6"					16 3/8"	99 3/8"	16 1/4"			2
12'-0"	2	3'-0"	6'-0"	3'-0"				6"	66"	66"	6"		3
13'-0"	2	3'-6"	6'-0"	3'-6"				6"	72"	72"	6"		3
14'-0"	2	4'-0"	6'-0"	4'-0"				8 5/8"	75 3/8"	75 3/8"	8 5/8"		3
15'-0"	2	4'-6"	6'-0"	4'-6"				14 5/8"	75 3/8"	75 3/8"	14 5/8"		3
16'-0"	2	4'-0"	8'-0"	4'-0"				8 5/8"	75 3/8"	99 3/8"	8 5/8"		3
17'-0"	2	4'-6"	8'-0"	4'-6"				14 5/8"	75 3/8"	99 3/8"	14 5/8"		3
18'-0"	2	4'-0"	10'-0"	4'-0"				8 5/8"	99 3/8"	99 3/8"	8 5/8"		3
19'-0"	2	4'-6"	10'-0"	4'-6"				14 5/8"	99 3/8"	99 3/8"	14 5/8"		3
20'-0"	3	4'-0"	6'-0"	6'-0"	4'-0"			7"	75 3/8"	75 3/8"	75 3/8"	6 7/8"	4
21'-0"	3	4'-6"	6'-0"	6'-0"	4'-6"			13"	75 3/8"	75 3/8"	75 3/8"	12 7/8"	4
22'-0"	3	4'-0"	7'-0"	7'-0"	4'-0"			7"	75 3/8"	75 3/8"	99 3/8"	6 7/8"	4
23'-0"	3	4'-6"	7'-0"	7'-0"	4'-6"			13"	75 3/8"	75 3/8"	99 3/8"	12 7/8"	4
24'-0"	3	4'-0	8'-0"	8'-0	4'-0"			7"	75 3/8"	99 3/8"	99 3/8"	6 7/8"	4
25'-0"	3	4'-6"	8'-0"	8'-0"	4'-6			13"	75 3/8"	99 3/8"	99 3/8"	12 7/8"	4
26'-0"	4	4'-0"	6'-0"	6'-0"	6'-0"	4'-0"		7"	99 3/8"	99 3/8"	99 3/8"	6 7/8"	4
27'-0"	4	4'-6"	6'-0"	6'-0"	6'-0"	4'-6"		13"	99 3/8"	99 3/8"	99 3/8"	12 7/8"	4

EFFECTIVE SIGN HEIGHT "H"	SUPPORT ARM LENGTH "G"	APPROX. AIMING ANGLE	LAMP WATTS	ANSI LAMP CODE	BALLAST TYPE
3'-0" to 5'-0"	2'-9"	0°	100	H38-4HT	CMRI-100-(a)
5'-1" to 6'-6"	3"-3"	0°	175	H39-22KB	CMRI-175-(a)
6'-7" to 10'-0"	4'-3"	2°	175	H39-22KB	CMRI-175-(a)
10'-1" to 13'-0"	5'-9"	8°	250	H37-5KB	CMRI-250-(a)
13'-1" to 15'-0"	7'-3"	8°	250	H37-5KB	CMRI-250-(a)

(a) = OPERATING VOLTAGE (120V., 208V., 240V., 277V., OR 480V.)

FIXTURE MOUNTING PLATE

(ALUMINUM)



"J" BOLT

(STAINLESS STEEL BOLT, NUTS & LOCKWASHERS)

BUREAU OF DESIGN SERVICES
OHIO DEPARTMENT OF HIGHWAYS

MERCURY VAPOR SIGN LIGHTING DETAILS

STANDARD CONSTRUCTION DRAWING

APPROVED _____
ENGINEER OF DESIGN SERVICES

DATE 4-13-72

BRUNING 44-560 10943

LIGHTING NOTES

SPECIFICATIONS

These notes are supplemental to Items 625 and 713 of the State of Ohio Department of Transportation Construction and Material Specifications.

625.03 - GENERAL

Electrical Service for the Roadside Rest Area will be furnished by Midwest Electric Co., P.O. Box 10, St. Marys, Ohio 45885.

Telephone Service for the Rest Areas shall be provided by Telephone Service Co., 6 Willipie Street, Wapakoneta, Ohio 45895.

PLAN SPECIFICATION REFERENCES

References to Items 625 and 713 in these plans shall be considered to read as respective references to Items S625 and S713.

625.07 – 713.11 LUMINAIRES

400 Watt Luminaires shall have dual rated 240/480 Volt integral regulator ballasts and shall be General Electric M400, Westinghouse OV-25, McGraw-Edison "Unistyle," or equal approved by the Engineer.

625.08 - 713.14 LAMPS

Mercury lamps shall be General Electric "Bonus Line", Westinghouse "Lifeguard", Sylvania "Rough Service", or equal approved by the Engineer

HIGH VOLTAGE DIRECT CURRENT TEST

A high voltage direct current test, as described in Supplemental Specification 839, shall be performed on all Secondary, Distribution, and Duct Cable Systems to be installed on this project. The test shall not be performed until after all new construction, such as guard rail, fence, delineator posts, sign supports, etc., in the immediate vicinity of the location of the cable run being tested, has been completed.

ITEM 625 MARKERS

An estimated quantity of "15 each of 625 Markers" is provided in the lighting general summary for use as directed by the Engineer in providing ground surface indication of the location of underground circuits. The markers shall be located directly over the centerline of the cable or duct. It is intended that a marker shall be provided at a point midway between adjacent side-mounted light units where the distance between units exceeds 300 feet but does not exceed 450 feet, and at intervals of approximately 200 feet on all other circuit sections located outside of paved areas.

ITEM 625 - CONDUIT JACKED UNDER PAVEMENT, AS PER PLAN

This item shall consist of furnishing and installing conduit of the size or sizes indicated under existing pavement and continuous shoulders by an approved method such as "drilling" or "jacking". Conduit shall be placed at a depth of 42 inches.

The Contractor shall place the conduit with the least amount of disturbance to the existing pavement, subbase, berm pavement, or shoulders of the roadway. All push pits or any necessary excavations shall be backfilled and restored in accordance with 625.01.

Measurement of the conduit shall be the actual amount of lineal feet installed under pavement and shoulders, measured in place, as accepted by the Engineer. The unit price bid for Item 625 "Conduit Jacked Under Pavement, as per plan" shall be full compensation for excavation, drilling, or jacking, backfilling, compaction, restoration, and all labor, material, equipment, and incidentals necessary to complete the work as specified.

CONCRETE PAD FOR TRANSFORMER BASE, AS PER PLAN

This item shall consist of the construction of a concrete pad for the mounting of a transformer. It shall conform to the details as shown on Sheet No. 191. Cost of all labor and materials shall be included in the unit price bid for Item 625, "Concrete Pad For Transformer Base, as per plan."

PRIMARY SERVICE

The Contractor will trench and backfill for the direct burial of primary cable placed by the Power Company from a point 125' left of STA 467+25.3 to a point 330' left of STA 478+30. The Contractor shall place 4" conduit from the termination point of the buried cable to the transformer pads, this work shall consist of the placing of the 4" conduit, manholes and transformer pads.

The Contractor shall cooperate with and coordinate his work with Midwest Electric Co. This work shall be accomplished prior to the disturbance of any existing electrical facilities.

TELEPHONE SERVICE

The Contractor shall place a 1" metal conduit (With Pull Wire) in the trench with the 4" Conduit from a point 330' left of STA 478+30 to both Motorist Service Buildings, except from 115' left of STA 478+30 to 85' right of STA 478+30. The Telephone Service Co. shall install the telephone cable in the conduit and make the connections to the existing buried cable across IR 75.

STANDARD CONSTRUCTION DRAWING HL-3

Pole base details shown on this drawing are essentially for galvanized steel poles. For aluminum designs, or other permitted steel material designs, variations from these details will be acceptable, as approved by the Engineer.

The Contractor shall cooperate with and coordinate his work with the Telephone Service Co. to provide minimum inconvenience to all parties and the public.

202 REMOVAL OF EXISTING LIGHT POLES AND ELECTRICAL EQUIPMENT FOR STORAGE

This work shall consist of the removal of existing light poles and foundations as indicated in the plans.

In addition to Item 202 the following provisions shall apply: The foundations shall be removed to a minimum of one (1) foot below the ground service and the holes shall be backfilled. The poles, bracket arms, luminaires, and lamps shall be carefully removed and stored neatly within the limits of the project at locations approved by the Engineer for removal by State forces. The connector kits and pole and bracket cable shall be removed and disposed by the Contractor. Distribution cable shall be abandoned. This work shall include the disposal of all waste material. This item shall be paid for at the unit price bid per each for "Removal of Existing Light Poles and Electrical Equipment for Storage, as per plan."

ITEM 605, 4-INCH SHALLOW PIPE UNDERDRAINS

An estimated quantity of "120 lin. ft. of 605, 4-inch shallow pipe underdrains" is provided in the lighting general summary for use as directed by the Engineer in providing positive drainage for pull boxes in fill areas. It is intended that all pull boxes in these areas be provided with such drainage, provided the length of underdrain necessary to obtain a satisfactory outfall does not exceed 20 Ft. approximately. A perforated PVC pipe or conduit material approved by the Engineer may be used in the construction of this item.

CONNECTOR KITS

At the option of the Contractor, Type IX cable connections may be substituted where Type II or III cable connections are specified in hand holes or transformer bases of light poles.
Type I through Type VII cable connections in pull boxes, junction boxes, and other enclosures below ground may be accomplished by the use of either of the following:

1. A sleeve or tee cable connector conforming to the general requirements of Style "S" or "H", or other connecting device approved by the Engineer. The connector shall be installed in accordance with the manufacturer's directions and the connection shall be sealed and waterproofed with a hi-dielectric compound such as "Aqua Seal" as manufactured by Kearney, or equal approved by the Engineer. The sealing material shall be applied in accordance with the manufacturer's directions to make a water-tight connection. Connections not accomplished in-line or in tee form shall be additionally protected by use of a hi-dielectric PVC, or other approved material, boot with an approved fastening device.
2. A preassembled Kit, as manufactured by Joy or Bussman, or approved equal, with a waterproof or water-tight rating acceptable to the Engineer.

FHWA REGION	STATE	PROJECT	
5	OHIO		

AUGLAIZE COUNTY
AUG.-75-4.97

TYPE CODE 6706

ESTIMATED LIGHTING QUANTITIES

ROADWAY SHT. 186	SHT. 187	SHT. 188	SHT. 189	100% STATE	ITEM	GRAND TOTAL	UNIT	DESCRIPTION
11					625	11	EACH	Light Pole Design Nº AT15B34.2
8					625	8	EACH	Light Pole Design Nº AT12B34.2
2					625	2	EACH	Luminaire, Type II 400 w, 713.11
17					625	17	EACH	Luminaire, Type III 400 w, 713.11
19					625	19	EACH	Lamps, 400 w, 713.14 Mercury
19					625	19	EACH	Light Pole Foundation, 24"x6'0" deep
6				6	625	12	EACH	Pull Box, 18" Circular 713.09
19					625	19	EACH	Ground Rod
5470					625	5470	LIN. FT.	Trench, 24" Deep
				32	625	32	LIN. FT.	Conduit, 1" 713.04, Jacked Under Pavement, as per plan
				1520	625	1520	LIN. FT.	Conduit, 1" 713.04
235					625	235	LIN. FT.	Conduit, 3" 713.04
1814					625	1814	LIN. FT.	No. 10 AWG, Pole & Bracket Cable
550					625	550	LIN. FT.	No. 4 AWG, 600 volt Distribution Cable
5445					625	5445	LIN. FT.	1½" Duct Cable, 3 No 4 AWG 600 V
10					625	10	EACH	Connector Kit, Type I, as per plan
19					625	19	EACH	Connector Kit, Type II, as per plan
19					625	19	EACH	Connector Kit, Type III, as per plan
4					625	4	EACH	Connector Kit, Type VII B, as per plan
	2	4	2		202	8	EACH	Removal Of Existing Light Poles & Electrical Equipment for Storage, as per plan
		6			604	6	EACH	Manholes; Standard No.1 Modified as per plan
		2			625	2	EACH	Concrete Pad for Transformer Base, as per plan
		1640			625	1640	LIN. FT.	Conduit; 4" 713.04
		312			625	312	LIN. FT.	Conduit, 4" 713.04, Jacked Under Pavement, as per plan
	1000	1720			625	2720	LIN. FT.	Trench; 3'-6" deep
120					605	120	LIN. FT.	4" Shallow pipe underdrains
	7		8		625	15	EACH	Marker
		LUMP			625	LUMP	LUMP	Temporary Service Connection, as per plan
	LUMP	LUMP	LUMP		839	LUMP	LUMP	High Voltage Test

LIGHT POLE DATA TABLE

LOCATION & TYPE	POLE DESIGN NUMBER	ANCHOR BOLTS SIZE DIA. x LENGTH	ANCHOR BOLTS BOLT CIRCLE DIA.	TRANSFORMER BASE SIZE
	AT15B34.2	1"x40"	15"	AT-A
	AT12B34.2	1"x40"	15"	AT-A

TEMPORARY SERVICE CONNECTION, AS PER PLAN

This item shall consist of maintaining rest area lighting and electrical service to the existing Motorist Service Buildings during project construction.
Prior to the removal of power poles by Midwest Electric Company the Contractor shall furnish and install all materials necessary to provide a temporary service connection from the proposed pad mounted transformer to the Motorist Service Building for each rest area. This work shall include conduits, cable, trench, two 120/240 volt step-up transformers required for service to existing roadway lighting units, and all incidentals necessary to maintain electrical service. The Midwest Electric Company shall make cable connections at each pad mounted transformer. The Contractor shall notify the Engineer one week prior to the start of this work.
The lump sum price bid for Item 625 - "Temporary Service Connection, as per plan" shall include payment for all equipment, labor, and materials necessary to complete the work as specified. Component parts not specifically mentioned but required for satisfactory operation of this item shall be furnished and considered paid for as part of the item.

DETAILS REVISED

LIGHTING QUANTITIES - SUB-SUMMARY

AUGLAIZE COUNTY
AUG.-75-4.97

FHWA REGION	STATE	PROJECT	
5	OHIO		

(186/191)

				LIGHT POLE																														
REFERENCE 1/8	SIDE	STATION			DESIGN AT 158.34.2	DESIGN AT 163.34.2			LIGHT POLE FOUNDATION 24"x6'-0"		LUMINAIRE, TYPE III 400 WATT	LUMINAIRE, TYPE II 400 WATT	LAMPS 400 WATT	GROUND ROD		PULL BOX 18" CIRCULAR	TRENCH 24" DEEP	4" SHALLOW PIPE UNDERDRAIN	MARKER		CONDUIT 3"		DISTRIBUTION CABLE No 4	POLE & BRACKET CABLE No 0	DUCT, CABLE 600V 1/8" 7/20 No 4	CONNECTOR KIT TYPE I	CONNECTOR KIT TYPE II	CONNECTOR KIT TYPE III	CONNECTOR KIT TYPE III B		
		FROM	TO		EA.	EA.			EA.		EA.	EA.	EA.	EA.		EA.	L.F.	L.F.	EA.		L.F.		L.F.	L.F.	L.F.	EA.	EA.	EA.	EA.		
		NORTHBOUND																																
NB-13	Rt.	464+50			1				1		1		1	1										98			1	1					
	Rt.	464+50	471+10														660		3						670								
NB-12	Rt.	471+10			1				1		1		1	1										98			1	1					
	Rt.	471+10	15+40														125								135								
	Rt.	15+40														1	25	20							35	2							
		SOUTHBOUND																																
SA-12	Lt.	466+80			1				1		1		1	1										98			1	1					
	Lt.	466+80	470+25														345		1						355								
SA-11	Lt.	470+25			1				1		1		1	1										98			1	1					
	Lt.	470+25	473+45														320		1						330								
SA-10	Lt.	473+45			1				1		1		1	1										98			1	1					
	Lt.	473+45	3+00														455		2						465								
SA-9	Lt.	3+00				1			1		1		1	1										92			1	1					
	Lt.	3+00	5+25														225								235								
SA-8	Lt.	5+25				1			1		1		1	1										92			1	1					
	Lt.	5+25	6+08														80								90								
	Lt.	6+08	6+71													1	95	20			95		210			2							
SA-6	Lt.	6+71				1			1				1	1										92			1	1					
	Lt.	6+71	8+20														150								160								
SA-7	Lt.	8+20				1			1		1		1	1										92			1	1					
	Lt.	8+20	8+35														15								25								
		NORTHBOUND																																
	Rt.	32+73	33+30														60				60		140			2							
NA-7	Rt.	33+30				1			1		1		1	1										92			1	1					
	Rt.	33+30	35+20														200								210								
NA-6	Rt.	35+20				1			1				1	1										92			1	1					
	Rt.	35+20	31+68														130								140								
	Rt.	31+68														2	40	40			40		100			2				2			
	Rt.	31+68	32+55														85								95								
NA-8	Rt.	32+55				1			1		1		1	1										92			1	1					
	Rt.	32+55	490+25														195								205								
NA-9	Rt.	490+25				1			1		1		1	1										92			1	1					
	Rt.	490+25	495+05														480		3						490								
NA-10	Rt.	495+05			1				1		1		1	1										98			1	1					
	Rt.	495+05	498+30														325		1						335								
NA-11	Rt.	498+30			1				1		1		1	1										98			1	1					
	Rt.	498+30	501+75														345		1						355								
NA-12	Rt.	501+75			1				1		1		1	1										98			1	1					
		SOUTHBOUND																																
	Lt.	491+70	492+42														270								280								
SB-11	Lt.	492+42			1				1		1		1	1										98			1	1					
	Lt.	492+42	2+66														65								75								
	Lt.	2+66														2	40	40			40		100			2				2			
	Lt.	2+66	495+89														75								85								
SB-12	Lt.	495+89			1				1		1		1	1										98			1	1					
	Lt.	495+89	502+50														665		3						675								
SB-13	Lt.	502+50			1				1		1		1	1										98			1	1					
		TOTAL			11	8	—	—	19	—	17	2	19	19		6	5470	120	15	—	235	—	550	1814	5445	10	19	19	4	—	—			

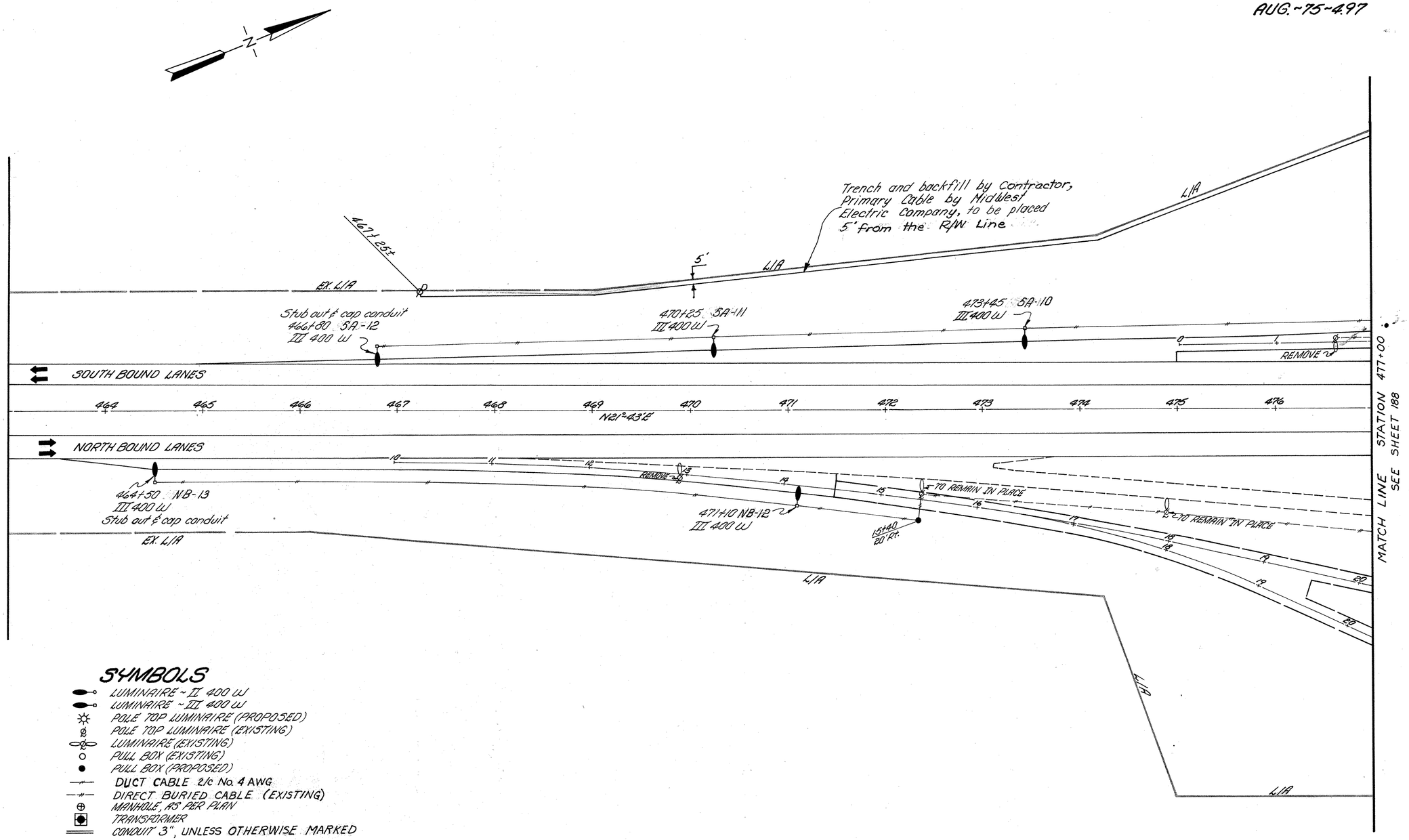
DATE	
DETAILED	5-73
DETAILS CHECKED	7-73
DETAILS REVISED	

LIGHTING QUANTITIES SUB-SUMMARY

FHWA REGION	STATE	PROJECT	
5	OHIO		

187
191

AUGLAIZE COUNTY
AUG.-75-4.97



SYMBOLS

- LUMINAIRE ~ II 400 W
- LUMINAIRE ~ III 400 W
- POLE TOP LUMINAIRE (PROPOSED)
- POLE TOP LUMINAIRE (EXISTING)
- LUMINAIRE (EXISTING)
- PULL BOX (EXISTING)
- PULL BOX (PROPOSED)
- DUCT CABLE 2/c No. 4 AWG
- DIRECT BURIED CABLE (EXISTING)
- MANHOLE, AS PER PLAN
- TRANSFORMER
- CONDUIT 3", UNLESS OTHERWISE MARKED

	BY	DATE
DETAILED	FHH	5-73
DETAILS CHECKED	DEK	7-73
DETAILS REVISED		

Rev. 7-5-74

LIGHTING SYMBOLS & LIGHTING PLANS

FHWA REGION	STATE	PROJECT	
5	OHIO		

188
191

AUGLAIZE COUNTY
AUG.-75-4.97

DETAILED
DETAILS CHECKED
DETAILS REVISED

BY	DATE
FHH	5-73
CEK	7-73

SEE SHEET 187
MATCH LINE STATION 477+00

MATCH LINE STATION 490+00
SEE SHEET 189

L/A

Trench and backfill by Contractor, Primary Cable by Midwest Electric Company.

M.H. #1 478+30; 330' Lt. ±

5'

See Note 1 This sheet

1" Conduit & 4" Conduit

Approximate location of telephone pole

Proposed telephone cable

See Note 1 This sheet

M.H. # 2 477+81; 300' Lt. ±

1" Conduit & 4" Conduit

STA 10+65 75' Lt. ±

Elevation for top of transformer base = 908.75

Transformer Pad

SEE SHEET No. 191 FOR DETAILS ON TRANSFORMER BASE

SEE SHEET No. 191 FOR MANHOLE DETAILS

1" Conduit & 4" Conduit

M.H. #3 478+30; 75' Lt. ±

See Notes 1 & 2 This sheet

6+08 20 Lt.

5+25 SA-8 III 400 W

6+71 SA-6 II 400 W

8+20 SA-7 III 400 W

3+00 SA-9 III 400 W

EXISTING PULL BOX

TO REMAIN IN PLACE

EXISTING PULL BOX

EXISTING PULL BOX

TO REMAIN IN PLACE

REMOVE

REMOVE

2-4" Conduits jacked under pvmt.

SOUTHBOUND LANES

478 478+57 479 480 481 482 483 484 485 486 487 488 489

478+30

N21°43'E

Existing buried telephone cable

NORTHBOUND LANES

M.H. # 4 478+30; 85' Rt. ±

See Notes 1 & 2 This sheet

REMOVE

REMOVE

31+68 20 Lt.

31+68 20 Rt.

35+20 NA-6 II 400 W

32+55 NA-8 III 400 W

33+30 NA-7 III 400 W

TO REMAIN IN PLACE

TO REMAIN IN PLACE

EXISTING PULL BOX

EXISTING PULL BOX

TO REMAIN IN PLACE

EXISTING PULL BOX

See Note 1 This sheet

1" Conduit & 4" Conduit

M.H. # 5 478+30; 245' Rt. ±

To existing service building

See Note 1 This sheet

M.H. # 6 251+80; 50' Lt. ±

31+58 15' Rt. ±

Transformer Pad

SEE SHEET No. 191 FOR DETAILS ON TRANSFORMER BASE

23+55; 25' Lt. 30° Bend

L/A

L/A

L/A

L/A

NOTES

1. An 18" pull box shall be provided in the immediate vicinity of the manhole, as shown, for 1" telephone conduit terminations and telephone cable connections. Between pull boxes 1" telephone conduit and 4" electrical conduit shall have common trench.
2. Telephone cable to be connected to existing buried telephone cable under I-75 by the Telephone Service Company.
3. Pull boxes and 1" conduit installed for telephone service shall be 100% stat participation.

Rev. 7-5-74

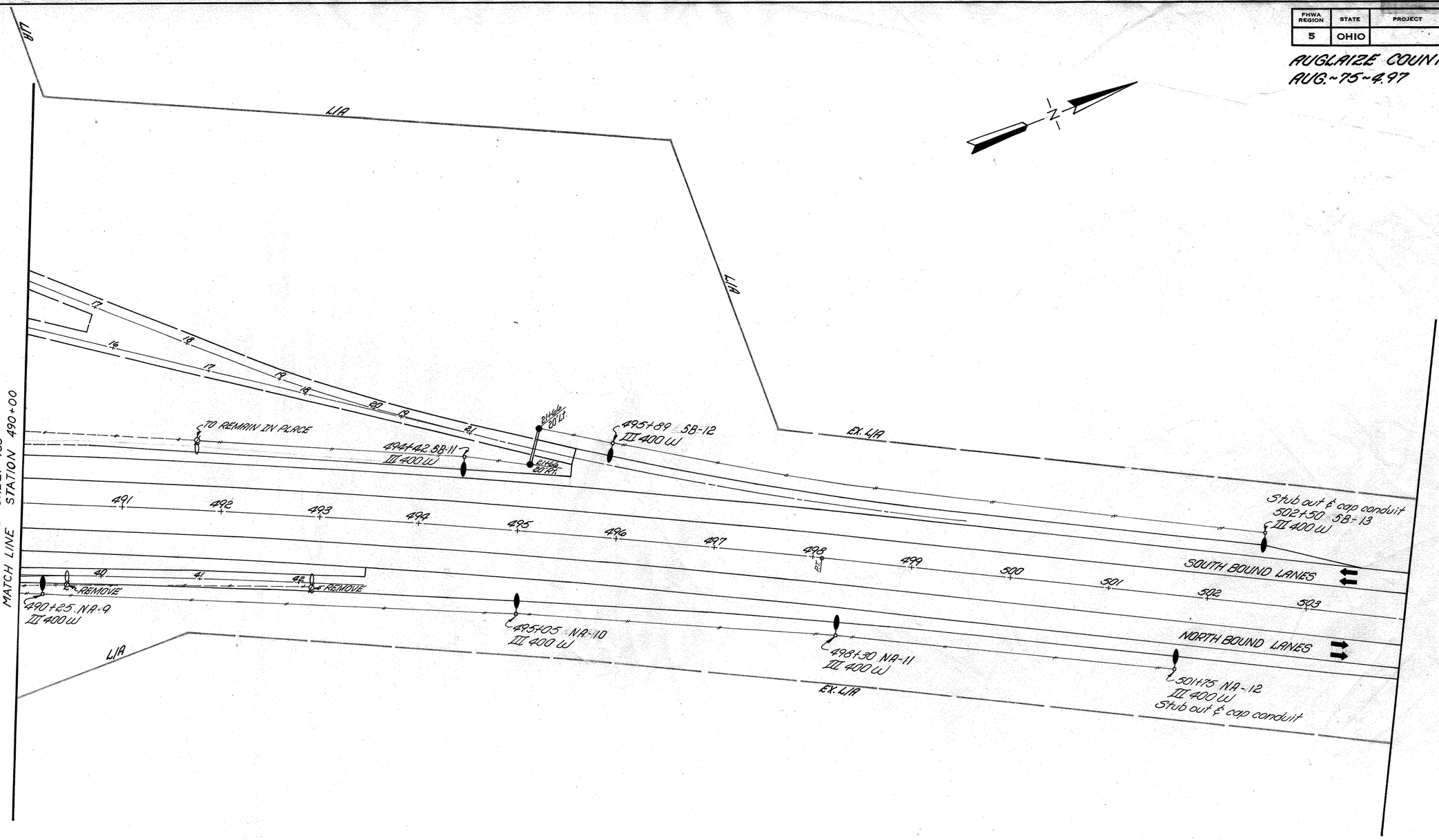
LIGHTING PLANS

FHWA REGION	STATE	PROJECT	
5	OHIO		

189
191

AUGLAIZE COUNTY
AUG.-75-4.97

	BY	DATE
DETAILED	FMH	5-73
DETAILS CHECKED	CEK	7-73
DETAILS REVISED		



LIGHTING PLANS