STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

WYANDOT COUNTY WYA-30-14.47	OHIO	1
	FHWA REGION 5	34
HES-49(50)	FEDERAL PROJECT	

WYA-30-14.47
CRANE TOWNSHIP
WYANDOT COUNTY

HES-49(50)

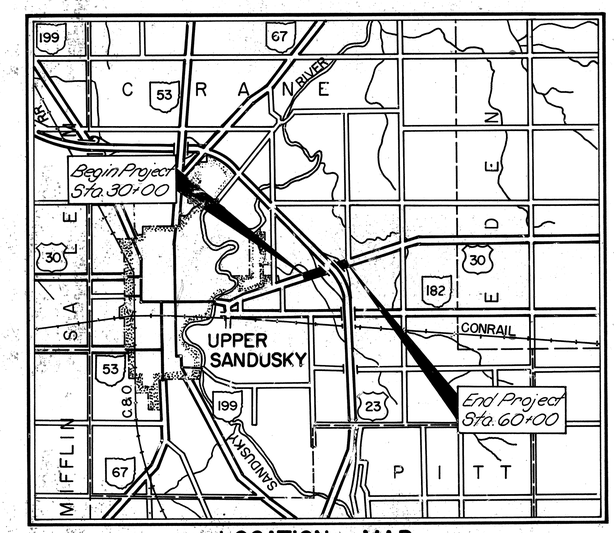
CONVENTIONAL SIGNS

County Line
Township Line
Section Line
Corporation Line or
Fence Line (existing) (proposed)
Center Line 352 353
Trees, 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 or
Guardrail (existing) (proposed)

INDEX OF SHEETS

REVISED 3-30-87, G.P.D.



LOCATION MAP

SCALE IN MILES 0 1 2 3 4

Portion to be improved
State & Federal Routes
Other Roads

LINE DATA

Begin Project ~ Sta. 30+00
End Project ~ Sta. 60+00
Net Length of Project = 3000 Lin. Ft. = 0.568 Mile

Begin Work ~ Sta. 29+20
End Work ~ Sta. 60+25
Net Length of Work = 3105 Lin. Ft. = 0.588 Mile

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
Call···800-362-2764 (Toll free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST BE CALLED DIRECTLY

SCALES

Plan 0' 50' 100'
Profile: Horizontal 0' 50' 100', Vertical 0' 5' 10'
Cross Section: Horizontal 0' 5' 10', Vertical 0' 5' 10'

1987 SPECIFICATIONS

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

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

SUPPLEMENTAL SPECIFICATIONS	
847/947 10-17-83	

Approved James L Schmenk
Date 4-17-86 District Deputy Director of Transportation

Approved
Date Engineer, Bureau of Bridges and Structural Design

Approved James R. Longenecker
Date 10-27-86 Deputy Director of Operations

Approved Warren J. Smith
Date 2-6-87 Director, Department of Transportation

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

REV. 3-30-87, G.P.D.

Plan Prepared By:
DISTRICT NO. 1
OHIO DEPARTMENT
OF TRANSPORTATION

SEAL

Project: WYA-30-14.47
Date of Letting 19, Contract No.

LD 0300 Rev. 1-1-81

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS

BP-5	1-11-85	GR-5	2-5-82			
BP-6	6-1-65	MC-4	7-26-76			
		MC-9	1-30-81			
CB-22-A&B	5-1-79					
	—	MC-11	8-1-78			
GR-1	1-11-85	TC 71.10	4-9-79			
GR-2B	2-5-82	MT-99.20	11-14-86			
GR-3	1-21-85	—				
GR-4	2-5-82					
HW-4A	4-1-80					
HW-4B	4-1-80					

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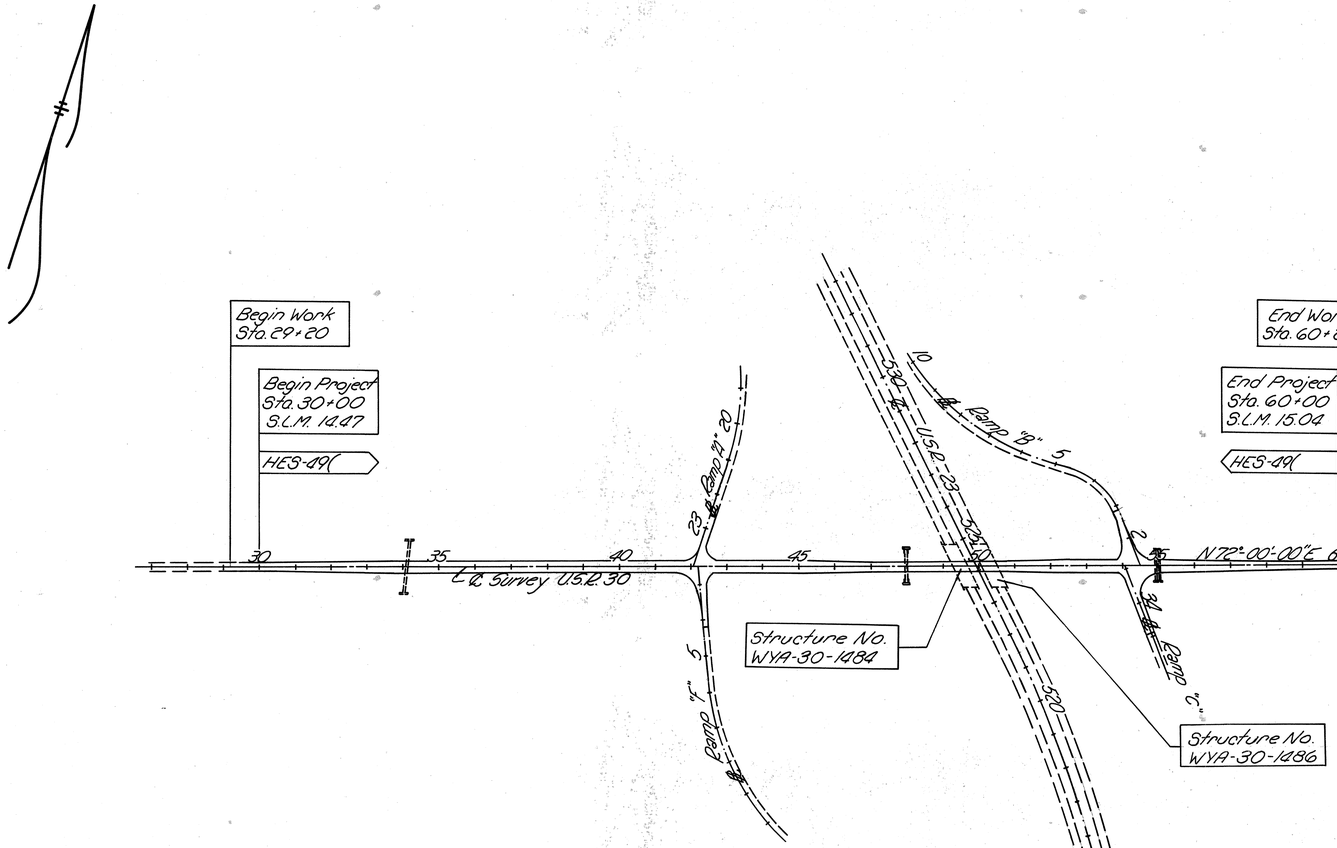
WYANDOT COUNTY
WYA-30-14.47

SCHEMATIC PLAN
U.S.R. 30

SCALE: 0' 100' 200' 400'



DESIGN DESIGNATION

Current A.D.T. (1985)	=	6005
Design Year A.D.T. (2005)	=	11,582
D.H.V.	=	1158
D	=	50%
T	=	23%
V	=	55 m.p.h.

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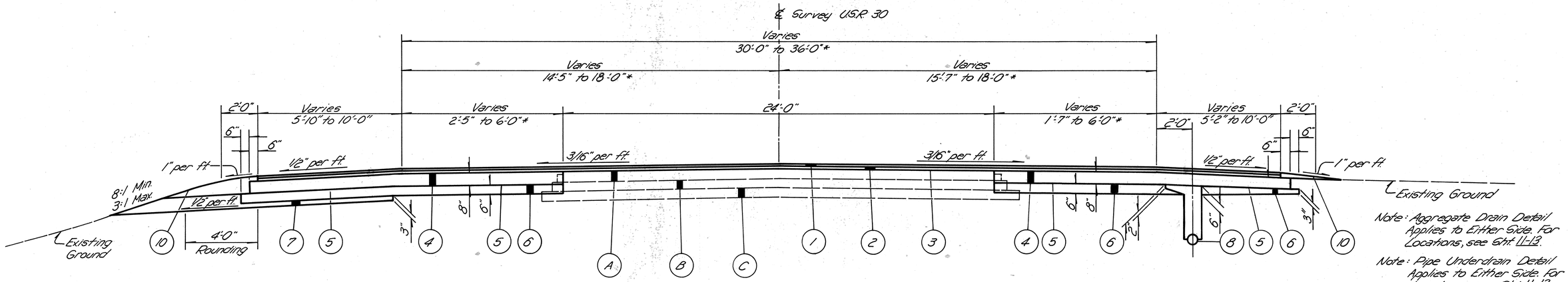
WYANDOT COUNTY
WYA-30-14.47

TYPICAL SECTIONS
TYPE 404

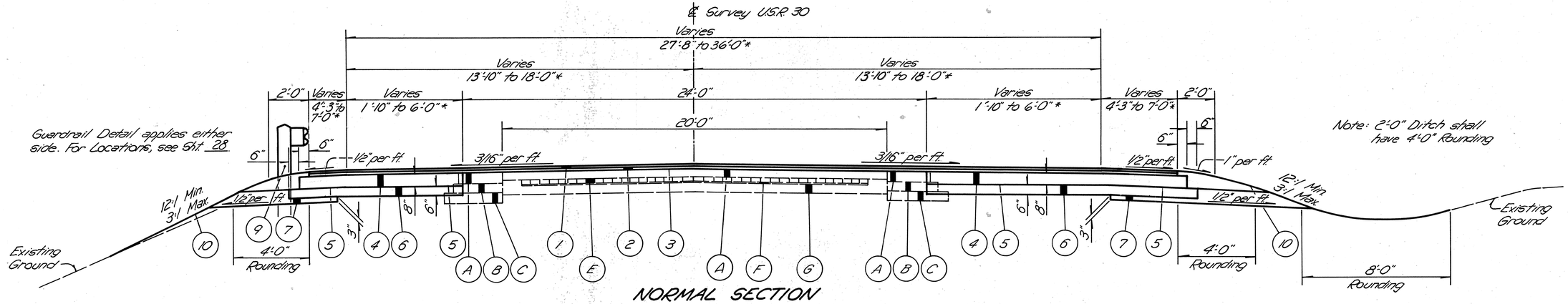


NORMAL SECTION

SECTION APPLIES at:
Sta. 31+50 to Sta. 41+31 = 981 Lin. Ft.
Total = 981 Lin. Ft.

Note: Aggregate Drain Detail Applies to Either Side. For Locations, see Sht. 11-13.

Note: Pipe Underdrain Detail Applies to Either Side. For Locations, see Sht. 11-13.



NORMAL SECTION

SECTION APPLIES at:
Sta. 42+75 to Sta. 48+125 = 5375 Lin. Ft.
Sta. 53+05 to Sta. 53+80 = 75 Lin. Ft.
Sta. 55+51 to Sta. 58+50 = 299 Lin. Ft.
Total = 5749 Lin. Ft.

* For Pavement Transition details & locations, see Sht. 6.

Note: Pipe Underdrain Details shown in above Typical Section also applies to either side of this Typical Section for Locations, See Sht. 11-13.

EXISTING LEGEND

- (A) Asphalt Concrete
- (B) Insulation Course
- (C) Classified Embankment Material
- (E) Brick
- (F) Sand Cushion
- (G) 5 1/2" Portland Cement Concrete

PROPOSED LEGEND

1. Item 404 ~ 1 1/4" Asphalt Concrete, AC-20
2. Item 402 ~ 1 3/4" Asphalt Concrete, AC-20
3. Item 407 ~ Tack Coat and Cover Aggregate
4. Item 301 ~ Bituminous Aggregate Base; AC-20
5. Item 408 ~ Bituminous Prime Coat, applied at a rate of 0.40 Gal/per Sq. Yd.
6. Item 304 ~ Aggregate Base
7. Item 605 ~ Aggregate Drains
8. Item 605 ~ 6" Pipe Underdrains, as per plan (See Plan & Profile Sheets for F.L. Elevations)
9. Item 606 ~ Guardrail, Type 5
10. Item 659 ~ Seeding and Mulching

Revised 4/29/87 K.M.S.

TYPICAL SECTIONS

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WYANDOT COUNTY
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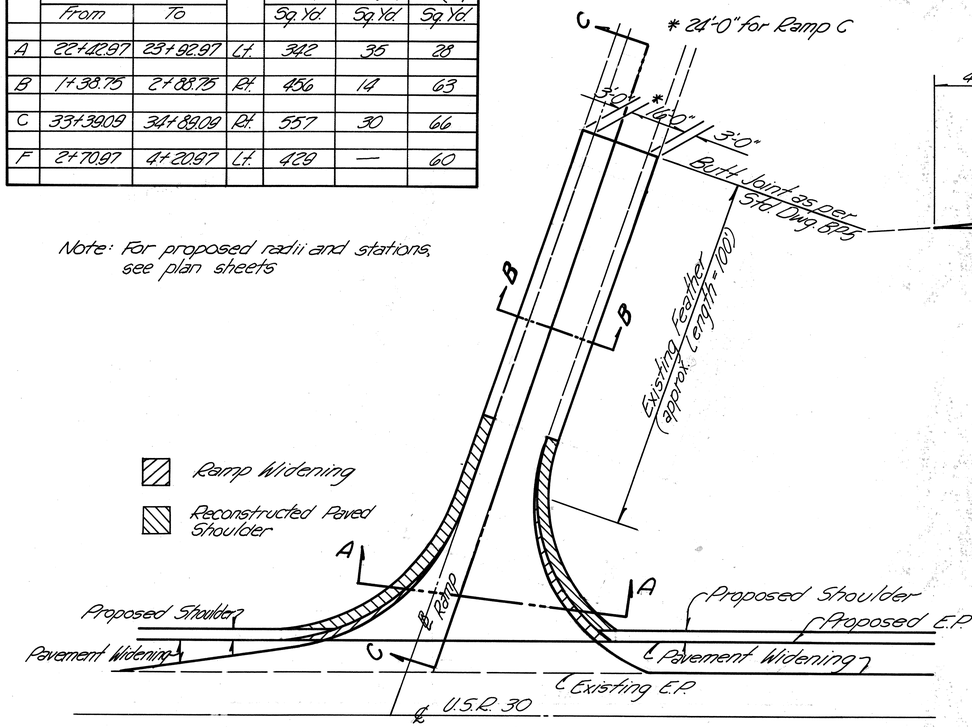
RAMP AREAS

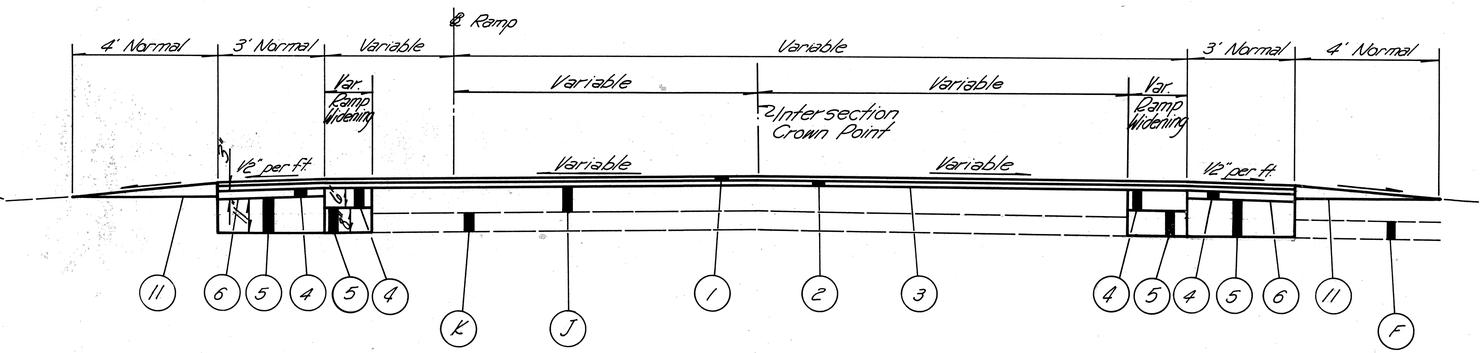
Ramp	Station From	Station To	Side	Ramp Areas: Existing Ramp Pavement Sq. Yd.	Ramp Areas: Proposed Pavement Widening and 4'-0" Shoulder Sq. Yd.	Ramp Areas: Proposed Reconstructed Paved Shoulder Sq. Yd.
A	22+82.97	23+92.97	Lt.	342	35	28
B	17+38.75	27+88.75	Rt.	456	14	63
C	33+39.09	34+89.09	Rt.	557	30	66
F	2+70.97	4+20.97	Lt.	429	—	60

Note: For proposed radii and stations, see plan sheets

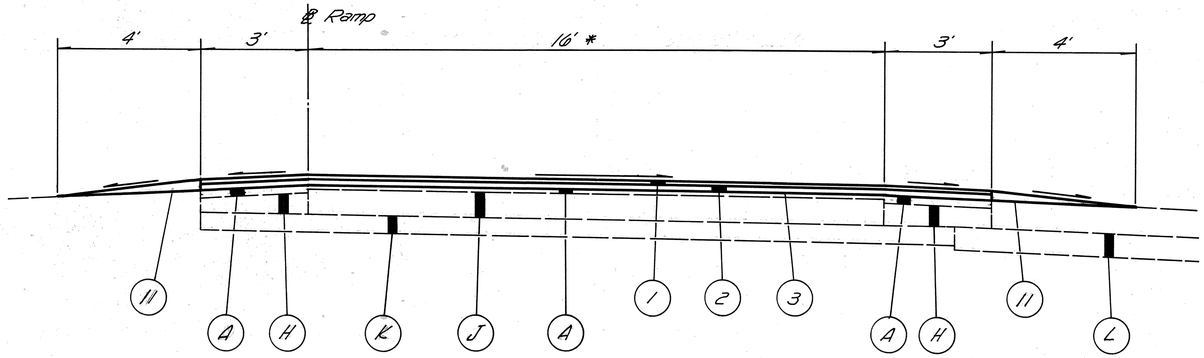


PLAN VIEW OF RAMP INTERSECTION

TYPICAL SECTIONS
RAMPS
TYPES 404 & 402



SECTION A-A



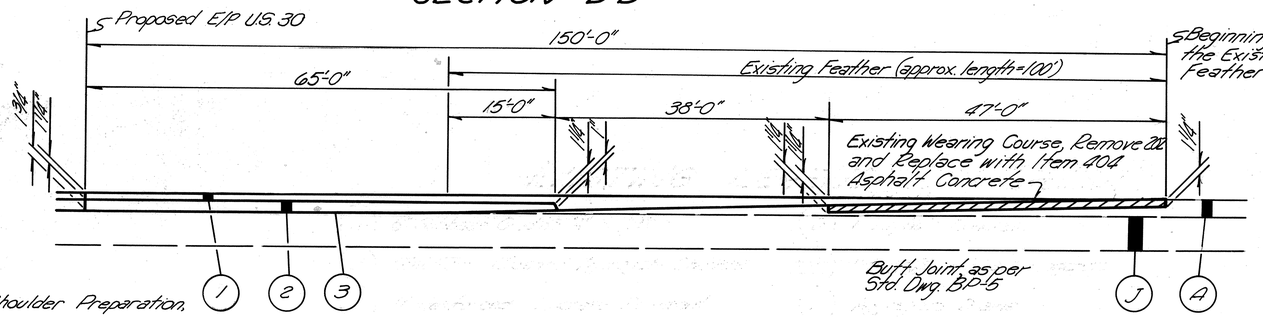
SECTION B-B

EXISTING LEGEND

- (A) Asphalt Concrete
- (H) Stabilized Crushed Aggregate Shoulder
- (J) 8" Reinforced Concrete Pavement
- (K) Subbase
- (L) Aggregate Drains

PROPOSED LEGEND

- (1) Item 404 Asphalt Concrete, AC-20 (Var. Thickness)
- (2) Item 402 Asphalt Concrete, AC-20 (Var. Thickness)
- (3) Item 407 Tack Coat with Cover Aggregate
- (4) Item 301 3" Bituminous Aggregate Base, AC-20
- (5) Item 408 Bituminous Prime Coat, applied at a rate of 0.40 gal. per Sq. yd.
- (6) Item 304 Bituminous Aggregate Base, AC-20
- (11) Item 617 Reconditioning Shoulders, Including Shoulder Preparation, Compacted Aggregate, and Water



SECTION C-C

Revised 4/30/87 JVP

TYPICAL SECTIONS

TRANSITION DETAILS

FHWA REGION	STATE	PROJECT	
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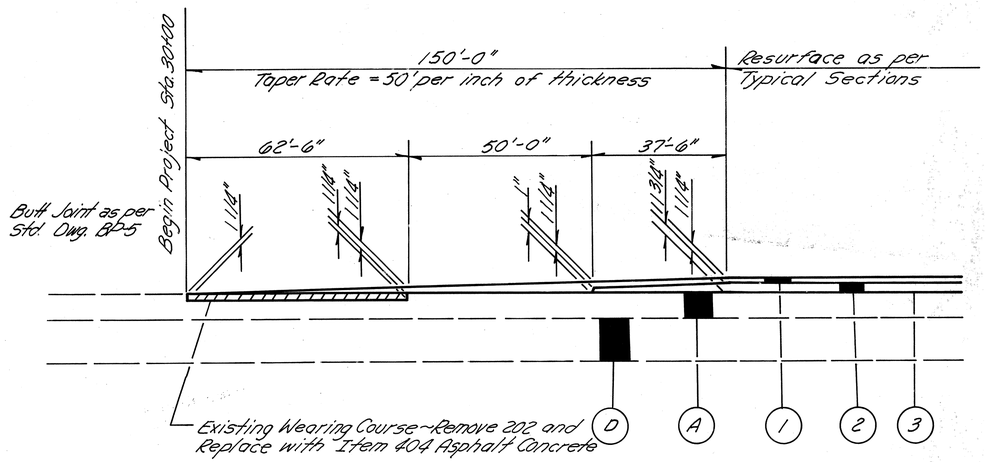
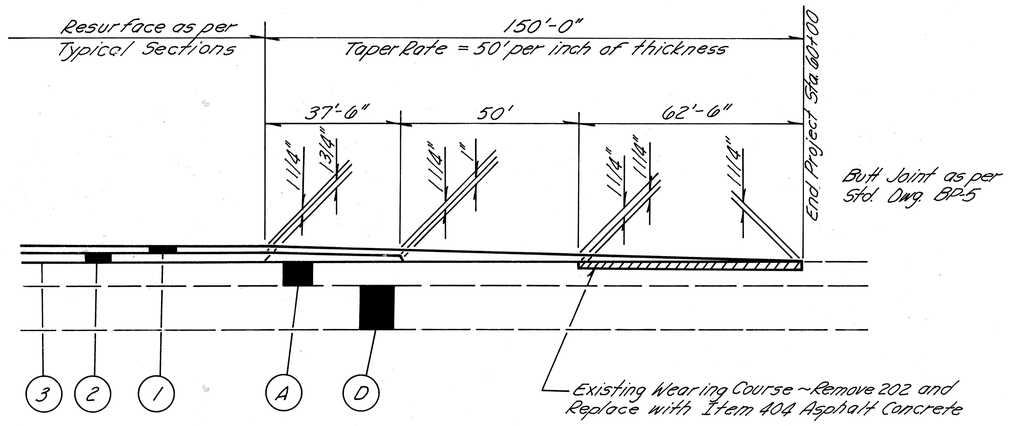
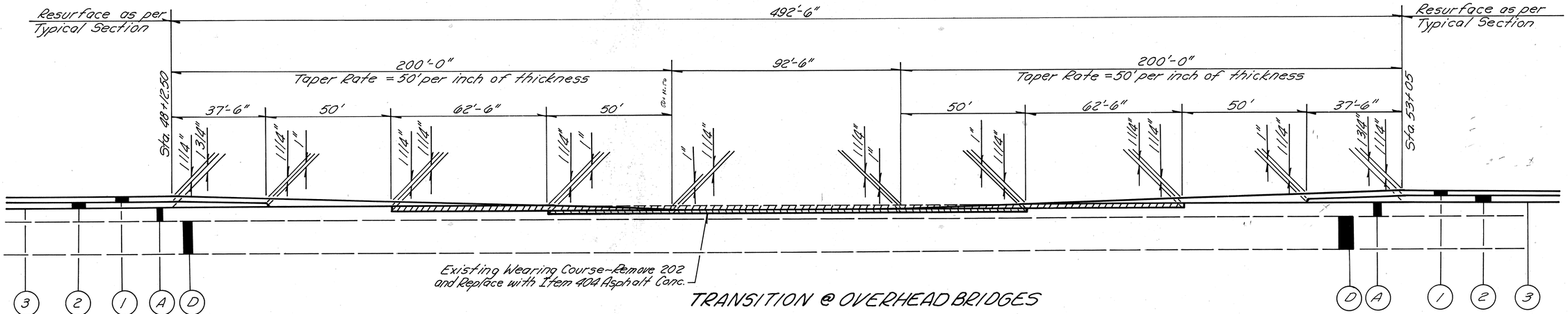
WYANDOT COUNTY
WYA-30-14.47 HES-49(50)



TRANSITION @ BEGIN PROJECT

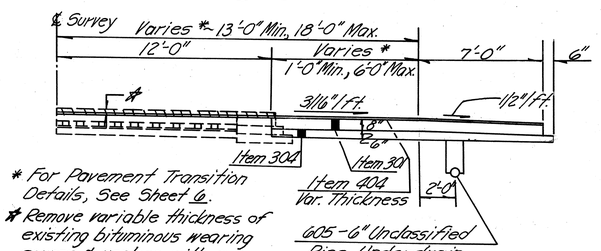


TRANSITION @ END PROJECT



TRANSITION @ OVERHEAD BRIDGES

Section Applies At:
Sta. 48+12.50 to Sta. 53+05 = 492.50 Lin. Ft.



* For Pavement Transition Details, See Sheet 6.

* Remove variable thickness of existing bituminous wearing course & replace with a variable thickness of Item 404, See Transition Detail Sheet 5.

HALF TRANSVERSE SECTION

(Symmetrical about ℄ Survey)
Sta. 48+12.50 to Sta. 53+05

EXISTING LEGEND

(A) Asphalt Concrete

(D) Base Materials

PROPOSED LEGEND

(1) Item 404 ~ 1 1/4" Asphalt Concrete, AC-20

(2) Item 402 ~ 1 3/4" Asphalt Concrete, AC-20

(3) Item 407 ~ Tack Coat and Cover Aggregate

PAVEMENT WIDTH And DEPTH TRANSITION

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WYANDOT COUNTY
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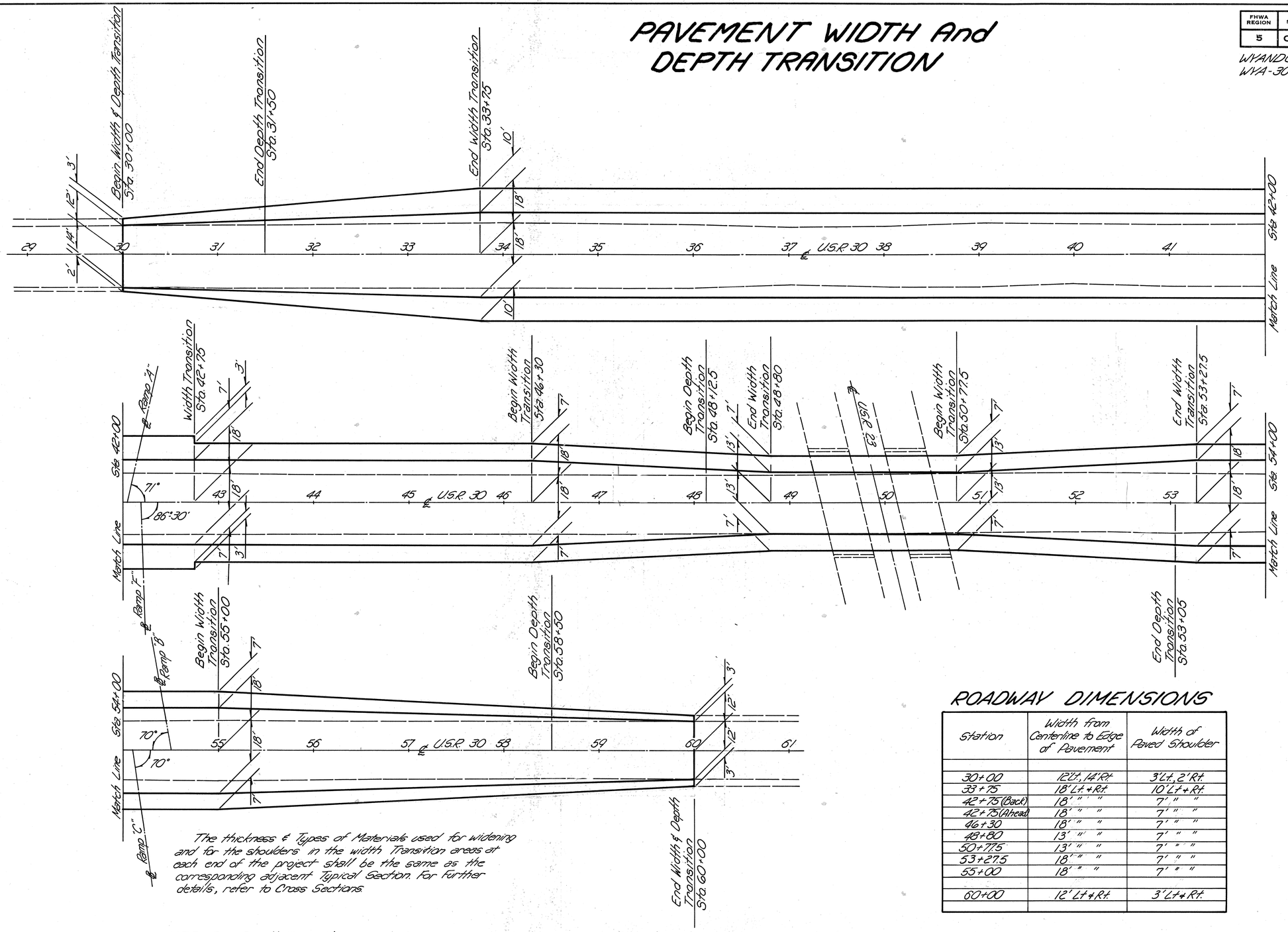

The thickness & Types of Materials used for widening and for the shoulders in the width Transition areas at each end of the project shall be the same as the corresponding adjacent Typical Section. For further details, refer to Cross Sections.

NOTE: For Depth Transition Details, See Sheet 5.

ROADWAY DIMENSIONS

Station	Width from Centerline to Edge of Pavement	Width of Paved Shoulder
30+00	12'Lt, 14'Rt	3'Lt, 2'Rt.
33+75	18'Lt+Rt	10'Lt+Rt.
42+75 (Back)	18' " "	7' " "
42+75 (Ahead)	18' " "	7' " "
46+30	18' " "	7' " "
48+80	13' " "	7' " "
50+77.5	13' " "	7' " "
53+27.5	18' " "	7' " "
55+00	18' " "	7' " "
60+00	12'Lt+Rt.	3'Lt+Rt.

PAVEMENT WIDTH & DEPTH TRANSITION Revised 4/22/87 KM

GENERAL NOTES

Computations By Initials Date	FHWA REGION	STATE	PROJECT	7 / 34
Computations Checked By Initials Date	5	OHIO		
Final Revisions By Initials Date	WYANDOT COUNTY WYA-30-14.47			

FIELD OFFICE, *AS PER PLAN*

THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE HAVING A MINIMUM OF 300 SQ. FT. OF FLOOR SPACE. PAYMENT SHALL BE AT THE LUMP SUM PRICE BID FOR ITEM 619, FIELD OFFICE.

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS

THE ROUNDED CORNERS SHOWN ON THE TYPICAL SECTIONS, APPLY TO ALL CROSS SECTIONS EVEN THOUGH OTHERWISE SHOWN ON THESE PLANS.

UNDERGROUND UTILITIES

THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC.

UTILITY OWNERSHIP

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

ELECTRIC	OHIO POWER CO. 301 CLEVELAND AVE., S.W. P.O. BOX 400 CANTON, OHIO 44701 216-456-8173
WATER	CITY OF UPPER SANDUSKY, OHIO MUNICIPAL OFFICES 119 N.SEVENTH ST. UPPER SANDUSKY, OHIO 43351 419-294-3862
TELEPHONE	OHIO BELL TELEPHONE CO. 1600 MADISON AVE. TOLEDO, OHIO 43624 419-245-7218

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

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LOCATION OF GUARDRAIL

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

SEEDING

QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN TEN (10) FEET OUTSIDE THE WORK LIMITS, AS SHOWN ON THE CROSS SECTIONS, OR TO THE RIGHT-OF-WAY LINE, IF SUCH LINE IS LESS THAN TEN (10) FEET FROM THE WORK LIMITS.

ITEM 605 – 6" PIPE UNDERDRAINS AS PER PLAN

BACKFILLING OF THESE UNDERDRAINS WILL BE AS PER SPEC 605.03 USING #8 OR #9 NATURAL AGGREGATE ONLY. NO SAND OR SLAG MATERIAL WILL BE ALLOWED.

GUARDRAIL REPLACEMENT

NO HAZARD SHALL BE LEFT UNPROTECTED EXCEPT FOR ACTUAL TIME NECESSARY TO REMOVE, GRADE, AND REINSTALL GUARDRAIL IN A CONTINUOUS OPERATION. THE REMOVAL OF ALL GUARDRAIL SHALL AT ALL TIMES BE AS DIRECTED BY THE ENGINEER. NO GUARDRAIL SHALL BE REMOVED UNTIL THE REPLACEMENT MATERIAL IS ON THE SITE, READY FOR INSTALLATION. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE DEEMED SUFFICIENT CAUSE TO ORDER WORK SUSPENDED ON THIS PROJECT UNTIL SUCH TIME THAT THE ENGINEER IS ASSURED OF SAID COMPLIANCE.

CONNECTION 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.

FARM DRAINS

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS UNDER THE DIRECTION OF THE ENGINEER. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE CONSTRUCTION LIMITS BY ITEM 603 CONDUIT, TYPE B, ONE (1) COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF THE ROADWAY DITCHES, SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 603 CONDUIT, TYPE F. THE OPTIMUM OUTLET ELEVATION SHALL BE, IF POSSIBLE, ONE (1) FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL FIELD TILE WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY ITEM 603, TYPE E, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REQUIRED REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION, AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

NECESSARY BENDS AND BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEM.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE.

ITEM 603	8" CONDUIT, TYPE B	50 LIN. FT.
ITEM 603	8" CONDUIT, TYPE C	50 LIN. FT.
ITEM 603	10" CONDUIT, TYPE F	20 LIN. FT.

NONE OF THE ABOVE MATERIALS SHALL BE ORDERED BY THE CONTRACTOR UNTIL AUTHORIZED BY THE ENGINEER.

EROSION CONTROL PADS AND ANIMAL GUARDS

EROSION CONTROL PADS AND ANIMAL GUARDS SHALL BE PROVIDED AT THE OUTLET END OF ALL PIPE UNDERDRAINS AND FARM DRAINS, AS PER STANDARD CONSTRUCTION DRAWING MC-4, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE.

PAYMENT FOR THE EROSION CONTROL PADS AND THE ANIMAL GUARDS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 603, 8" CONDUIT, TYPE F.

ITEM 407 TACK COAT

THE TACK COAT AND COVER AGGREGATE OPERATION SHALL BE DETERMINED AS PER SPEC 407.05. PLAN QUANTITIES INDICATE AVERAGE APPLICATION RATE OF 0.10 GALLONS PER SQUARE YARD OF TACK COAT AND 7 POUNDS PER SQUARE YARD OF COVER AGGREGATE FOR ESTIMATING PURPOSES ONLY.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS 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.

ITEM 614 MAINTAINING TRAFFIC

THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIFICATION 614. TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING OR COMPLETED PAVEMENT.

WHEN IT IS NECESSARY TO CLOSE ONE LANE OF TRAFFIC ADJACENT TO THE WORK, THE CLOSURE SHALL BE ACCOMPLISHED BY THE APPLICATION OF TRAFFIC CONTROL DEVICES AS SHOWN ON SHEET 33. FLAGGER PROCEDURES SHALL BE AS SHOWN ON PLATE C-10 OF THE O.M.U.T.C.D.

ALL ADVANCE WARNING SIGNS FOR ANY CONDITION WHICH RESTRICTS TRAFFIC SHALL BE ERECTED BEFORE ANY SUCH RESTRICTION IS PUT INTO EFFECT. ALL SUCH SIGNS SHALL BE COVERED OR REMOVED FROM THE VIEW OF TRAFFIC WHEN THEY ARE NOT APPLICABLE, AS DETERMINED BY THE ENGINEER.

FAILURE TO COMPLY WITH THE ABOVE REQUIREMENTS SHALL BE DEEMED SUFFICIENT CAUSE TO ORDER WORK SUSPENDED ON THIS PROJECT UNTIL SUCH TIME THAT THE ENGINEER OBTAINS COMPLIANCE WITH THOSE REQUIREMENTS.

THE FOLLOWING ITEMS ARE TO BE USED BY THE ENGINEER TO FACILITATE TRAFFIC CONTROL.

410	TRAFFIC COMPACTED SURFACE, TYPE A or B	= 35 CU.YD.
616	CALCIUM CHLORIDE	= 1 TON
616	WATER	= 50 M.GAL.

PAYMENT FOR ALL THE ABOVE SHALL BE INCLUDED UNDER THE APPROPRIATE ITEM.

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER, FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES:

207	TEMPORARY SEEDING AND MULCHING	3663 SQ. YD.
207	STRAW OR HAY BALES	50 EACH
207	TEMPORARY SLOPE DRAINS	60 LIN. FT.
207	TEMPORARY BENCHES, DIKES DAMS AND SEDIMENT BASINS	30 CU. YD.
601	TYPE C ROCK CHANNEL PROTECTION WITHOUT FILTER.	2.40 CU. YD.
659	COMMERCIAL FERTILIZER	0.16 TON
659	REPAIR SEEDING AND MULCHING	916 SQ. YD.

BARRIER REFLECTORIZATION

THE TRAFFIC SIDE OF THE TYPE 5 GUARDRAIL AND CONCRETE BARRIER SHALL BE DELINEATED IN BOTH DIRECTIONS AT 100' INTERVALS USING AMBER TRAFFIC BARRIER RETROREFLECTORS. THE COST OF THE REFLECTORS AND PLACING THEM ON THE BARRIER SHALL BE CONSIDERED INCIDENTAL TO THE COST OF ITEM 606 GUARDRAIL TYPE 5 AND ITEM 622 CONCRETE BARRIER TYPE D. SEE FURTHER REQUIREMENTS LISTED IN THE PROPOSAL.

MISCELLANEOUS COMPUTATIONS

Computations By	
Initials SHK	Date 4/14/86
Computations Checked By	
Initials JMB	Date 4-16-86
Final Revisions By	
Initials	Date

FHWA REGION	STATE	PROJECT	
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WYANDOT COUNTY
WYA-30-14.47

EARTHWORK

SHEET NO.	203 EXCAVATION CU.YDS.	203 EMBANKMENT CU.YDS.
11	1782	1215
12	1596	998
13	712	196
TOTALS	4090	2409

SEEDING

SHEET NO.	659 SEEDING AND MULCHING SQ.YDS.
14	1806
15	1772
16	2405
17	422
18	39
19	1282
20	1035
21	3305
22	1550
23	1878
24	314
25	1090
26	1914
TOTALS	18812

202 PAVEMENT REMOVAL
CALCULATION APPLIES TO DRIVES @ STA. 37+75.5 & 39+56
[((25x25) x .2146 x 2) + (83x1) + (37x33)] ÷ 9 =174.69 SQ.YD.
QUANTITY: 174.69 x 2 = 349.38 SQ.YD. (QUANTITY CARRIED TO SHEET 27.

605 AGGREGATE DRAINS
AUG. LENGTH AGGREGATE DRAINS = 9'-0"
QAUNTITY:
[(3000x2) − 3068 − 350] ÷ 50 x 9 =465 LIN.FT.
NOTE: WHERE 6" UNCLASSIFIED PIPE UNDERDRAINS ARE NOT SHOWN, PROVIDE AGGREGATE DRAINS 50 FT. O.C., STAGGER EACH SIDE OF ROADWAY.

659 SEEDING & MULCHING
FROM SEEDING TABLE = 18812 SQ.YD.
NET SEEDING & MULCHING = 18812 SQ.YD.

659 COMMERICAL FERTILIZER @ 20 LBS. PER 1000 SQ.FT.
NET SEEDING & MULCHING = 18812 SQ.YD.
QAUNTITY: 18812 x 9 x 20 ÷ 1000 ÷ 2000
TOTAL COMMERICAL FERTILIZER = 1.69 TON

614 TEMPORARY CENTER LINES, CLASS II
STA. 30+00 TO STA. 60+00
QAUNTITY: 3000 x 2 (COURSES) = 6000 LIN.FT.
= 1.14 MILES
NOTE: TEMPORARY PAVEMENT MARKS SHALL BE PLACED ON EITHER SIDE OF THE CENTERLINE OF SURVEY.

Revised 4/30/87 JVF

MICROFILMED
AUG 20 1987

PAVEMENT TABLE

Computations By Initials RLS Date 4-16-86
Computations Checked By Initials SHK Date 4/14/86
Final Revisions By Initials Date

FHWA REGION	STATE	PROJECT	
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WYANDOT COUNTY
WYA-30-14.47

STATION FROM	STATION TO	RAMP	TRANSITION WIDTH (W) or DEPTH (D)	LENGTH	202	203	301	304	402	404	407		408	617	
					WEARING COURSE REMOVED	SUBGRADE COMPACTION	BITUMINOUS AGGREGATE BASE	AGGREGATE BASE	1 3/4" ASPHALT CONCRETE	1 1/4" ASPHALT CONCRETE	TACK COAT	COVER AGGREGATE	BITUMINOUS PRIME COAT	SHOULDER PREPARATION	COMPACTED AGGREGATE
				LIN.FT.	SQ.YDS.	SQ.YDS.	CU.YDS.	CU.YDS.	CU.YDS.	CU.YDS.	GAL.	TON	GAL.	SQ.YDS.	CU.YDS.
30+00	31+50			150.0	166.67										
ROADWAY			D				11.11	8.33	2.43	15.05	40.00	1.40	20.00		
SHOULDERS			W			320.00	31.48	26.39	6.08	4.34			50.00		
31+50	33+75			225.0											
ROADWAY							58.06	43.54	38.89	27.78	60.00	2.10	104.50		
SHOULDERS			W			1360.0	88.89	70.83	18.23	13.02			150.00		
33+75	41+31			756.0											
ROADWAY							224.00	168.00	147.00	105.00	201.60	7.06	403.20		
SHOULDERS						2688.0	392.00	308.00	56.39	40.27			497.14		
41+31	42+75			144.0											
ROADWAY							12.23	9.17	28.00	20.00	58.95	2.06	22.01		
SHOULDERS						174.54	42.74	58.67	6.39	4.56			52.57		
4+20.97	3+35.97	F		85.0	114.89										
ROADWAY			D							6.64	15.91	0.56			
SHOULDERS			D				0.83	3.06	2.66	1.90	4.47	0.16	4.00	37.78	3.15
3+35.97	2+70.97	F		65.0											
ROADWAY			W						10.31	9.38	27.00	0.95			
SHOULDERS							4.17	15.28	2.43	1.74			20.00	73.17	6.10
23+92.97	23+27.97	A		65.0	114.89										
ROADWAY			W				7.78	5.83	9.03	7.88	19.19	0.67	14.00		
SHOULDERS							2.33	8.56	1.55	1.15	0.50	0.02	11.20	92.07	7.67
23+27.97	22+42.97	A		85.0											
ROADWAY			D							6.19	15.11	0.53			
SHOULDERS			D							2.32	5.67	0.20		75.56	6.30
42+75	46+30			355.0											
ROADWAY							127.94	95.95	69.03	49.31	94.67	3.31	189.33		
SHOULDERS						1271.11	131.48	105.19	26.84	19.17			236.67		
46+30	48+80			250.0											
ROADWAY							61.36	46.02	59.44	42.46	66.67	2.33	110.44		
SHOULDERS			W			385.0	92.59	74.07	18.90	13.50			155.56		
48+80	50+77.5			197.5	473.33										
ROADWAY							9.75	7.31	9.24	23.45	52.67	1.84	17.56		
SHOULDERS						351.11	73.15	58.52	14.93	10.67			122.89		
50+77.5	53+27.5			250.0	373.33										
ROADWAY							43.21	32.41	15.49	27.49	44.00	1.54	77.78		
SHOULDERS			W			385.0	92.59	74.07	18.90	13.50			155.56		
53+27.5	55+00			172.5											
ROADWAY							51.11	38.33	33.54	23.96	27.55	0.96	92.00		
SHOULDERS						298.42	63.89	51.11	13.04	9.32			107.33		
33+39.09	34+24.09	C		85.0	156.67										
ROADWAY			D							9.28	22.67	0.79			
SHOULDERS			D				1.00	3.67	0.58	2.13	4.60	0.16	4.80	77.33	6.44
34+24.09	34+89.09	C		65.0											
ROADWAY			W				6.67	5.00	14.06	12.50	33.00	1.16	12.00		
SHOULDERS							4.50	16.50	2.63	1.88			21.60	69.78	5.81
1+38.75	2+03.75	B		65.0											
ROADWAY			W				3.11	2.33	11.76	10.56	29.00	1.02	5.60		
SHOULDERS							3.08	11.31	1.80	1.28			14.80	48.89	4.07
2+03.75	2+88.75	B		85.0	114.89										
ROADWAY			D							11.11	16.59	0.58			
SHOULDERS			D				2.17	7.94	1.26	1.99	3.13	0.11	10.40	76.44	6.37
55+00	58+50			350.0		687.88									
ROADWAY							67.41	50.56	60.12	42.94	85.36	2.99	121.33		
SHOULDERS			W				95.06	77.78	18.90	13.50			155.56		
58+50	60+00			150.0	166.67	171.11									
ROADWAY			D				6.67	5.00	3.82	13.89	37.33	1.31	12.00		
SHOULDERS			W				12.96	9.72	2.84	2.03			23.33		
TOTALS					1681.34	8316.19	1825.32	1498.45	726.51	623.14	965.64	33.81	2995.16	551.02	45.91

Revised 7/30/87

GENERAL SUMMARY

Computations By Initials Date
Computations Checked By Initials Date
Final Revisions By Initials Date

FHWA REGION	STATE	PROJECT		
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WYANDOT COUNTY
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ITEM	SHEET NUMBER 7	8	9	11	12	13	27	28	32	ITEM	QUANT.	UNIT	DESCRIPTION
													ROADWAY
201										201	LUMP	LUMP	CLEARING AND GRUBBING
202				177		23				202	200	LIN.FT.	PIPE REMOVED, 24" AND UNDER
202							349			202	349	SQ.YD.	PAVEMENT REMOVED
202			1681							202	1681	SQ.YD.	WEARING COURSE REMOVED
202							20			202	20	LIN.FT.	CURB REMOVED
202								925		202	925.0	LIN.FT.	GUARDRAIL REMOVED
202				6		1				202	7	EACH	CATCH BASIN OR INLET REMOVED
202				1						202	1	EACH	CATCH BASIN ABANDONED
203		4090								203	4090	CU.YD.	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION
203		2409								203	2409	CU.YD.	EMBANKMENT
203			8316							203	8316	SQ.YD.	SUBGRADE COMPACTION
410	35									410	35	TON	TRAFFIC COMPACTED SURFACE, TYPE A or B
606								262.5		606	262.5	LIN.FT.	GUARDRAIL, TYPE 5
606								150		606	150.0	LIN.FT.	GUARDRAIL, TYPE 5 , MODIFIED AS PER PLAN
606								4		606	4	EACH	BRIDGE TERMINAL ASSEMBLY, STANDARD TYPE A , MODIFIED AS PER PLAN
606								4		606	4	EACH	ANCHOR ASSEMBLY, STANDARD TYPE A
622								288		622	288	LIN.FT.	CONCRETE BARRIER, STANDARD TYPE D
616	50									616	50	M.GAL.	WATER
616	1									616	1	TON	CALCIUM CHLORIDE
													EROSION CONTROL
207	3663									207	3663	SQ.YD.	TEMPORARY SEEDING AND MULCHING
207	10									207	50	EACH	STRAW OR HAY BALES
207	60									207	60	LIN.FT.	TEMPORARY SLOPE DRAINS
207	30									207	30	CU.YD.	TEMPORARY BENCHES, DIKES, DAMS, AND SEDIMENT BASINS
601				8						601	8	CU.YD.	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
601	2									601	2	CU.YD.	ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER
659		18812								659	18812	SQ.YD.	SEEDING AND MULCHING
659	0.16	1.69								659	1.69	TON	COMMERCIAL FERTILIZER
659	916									659	916	SQ.YD.	REPAIR SEEDING AND MULCHING
													DRAINAGE
602				0.8	1.3					602	2.1	CU.YD.	CONCRETE MASONRY
603	50									603	50	LIN.FT.	8" CONDUIT, TYPE B
603						8				603	8	LIN.FT.	15" CONDUIT, TYPE B
603					36					603	36	LIN.FT.	53"X34" CONDUIT, TYPE B
603				23						603	23	LIN.FT.	6" CONDUIT, TYPE C
603	50			32		8				603	90	LIN.FT.	8" CONDUIT, TYPE C
603				707		30				603	737	LIN.FT.	12" CONDUIT, TYPE C
603				514						603	514	LIN.FT.	12" CONDUIT, TYPE B
603				54	20	20				603	94	LIN.FT.	8" CONDUIT, TYPE F
603	20									603	20	LIN.FT.	10" CONDUIT, TYPE F
603				80						603	80	LIN.FT.	12" CONDUIT, TYPE F
604				9		1				604	10	EACH	CATCH BASIN, STANDARD NO. 2-2-B
605		465								605	465	LIN.FT.	AGGREGATE DRAINS
605				1503	1168	567				605	3238	LIN.FT.	6" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN
													PAVEMENT
301			1825				164			301	1989	CU.YD.	BITUMINOUS AGGREGATE BASE: AC-20
304			1498	33		29	179			304	1739	CU.YD.	AGGREGATE BASE
402			727				52			402	779	CU.YD.	ASPHALT CONCRETE, AC-20
404			623							404	623	CU.YD.	ASPHALT CONCRETE, AC-20
404				11		4	37			404	52	CU.YD.	ASPHALT CONCRETE, AC-20 (DRIVEWAYS)
407			966							407	966	GAL.	TACK COAT
407			34							407	34	TON	COVER AGGREGATE
408			2995	80		28	295			408	3398	GAL.	BITUMINOUS PRIME COAT
451							336			451	336	SQ.YD.	8" REINFORCED CONCRETE PAVEMENT
617			551							617	551	SQ.YD.	SHOULDER PREPARATION
617			46							617	46	CU.YD.	COMPACTED AGGREGATE, TYPE A
													TRAFFIC
614									1.14	614	1.14	MILES	TEMPORARY CENTER LINES, CLASS II
614									20	614	20	EACH	WORK ZONE MARKING SIGNS
621									0.88	621	0.88	MILE	CENTER LINES
621									1.08	621	1.08	MILE	EDGE LINES
621									472	621	472	LIN.FT.	CHANNELIZING LINES
621									1450	621	1450	LIN.FT.	TRANSVERSE LINES
621									13	621	13	EACH	LANE ARROWS
621									4	621	4	EACH	WORD "ONLY" ON PAVEMENT
847									95	847	95	LIN.FT.	STOP LINES, 947.02
													MISCELLANEOUS
614										614	LUMP	LUMP	MAINTAINING TRAFFIC
619										619	LUMP	LUMP	FIELD OFFICE, AS PER PLAN
623										623	LUMP	LUMP	CONSTRUCTION LAYOUT STAKES
624										624	LUMP	LUMP	MOBILIZATION

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FED RD. DIVISION	STATE	PROJECT		11 / 33
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Computations By Initials SHK Date 4/14/86
Computations Checked By Initials MJB Date 4/16/86
Final Revisions By Initials Date

DRAINAGE "D"

Bends & Branches													
6" Unclassified	6025	Lin Ft			190	1-6"Tee	525	1-6"Tee	313	1-6"Tee	475	1-8"x6"	1,503
Catch Basin Standard No. 22-B	6024	Each									1		1
											4	1-12"x6"	9
Conduit Lin Ft	6023	Type F	8"	12"	11		11		21		20	20	80
											20	20	54
		C	8"	12"	9		4		10		32		32
		B	6"	12"							146	207	707
												60	54
												294	23
													5.14
Concrete Masonry	6022	Cu Yd									0.20	0.20	0.80
											326	188	5.14
Rock Channel Protection, Type C, 18" Thick w/Filter	6019	Cu Yd									2	2	8
													0.80
Catch Basin Abandoned	202	Each									1	1	1
C.B. or Inlet Removed		Each			1				1		1	2	6
Pipe Removed 24" and Under		Lin Ft											177
												65	
												112	
Side			Lt		Lt		Lt		Rt		Lt	Rt	
Station		To	33+40		41+00		35+27		41+00		34+14	39+80	Totals
		From	31+50		35+75		30+00		36+25		32+20	33+92	
												33+27	
												39+00	
												39+35	
Ref No.			1-D		2-D		3-D		4-D		5-D	6-D	
			7-D		8-D		9-D						

Begin Project Sta. 30+00 S.L.M. 14.47
HES-49(
Begin Sheet
End Sheet
Sta 29+00
Sta 41+00
P.O.T. Sta. 31+00
Shiner
Fence Post
℄ Survey
0.50
U.S.R. 30
5355' 5500'
Corner Post
Water Valve
2 Story Frame Res.
Rock Channel Protection Type C, 18" Thick, with Filter
Note: Quantities for Approaches from Sta. 37+00 to Sta. 40+00, See Sheet 27
Rock Channel Protection Type C, 18" Thick, with Filter
For Drive Details & Dimensions, See Sheet 30.
Note: All buried cable originally placed at 30" depth.
Evergreen Grove
Exist. R/W
1 Story Frame Res.
Telephone Pedestal
Evergreens
Rock
George R. Paul Etux.
Pole Bldg.
Gas Sta.
Roof
McDonald Corp.
Water Valve
Water Valve
Fire Hydrant
Underground Electric 36" Deep
8" Tee with plug 4' Deep
Cable in Iron Pipe and approximately 30" below the pavement
Gas America-White Petroleum, Inc.
Gas Station
Bus Dr.
Rest Dr.
Store
Light Post
Iron Post
Wood Post
Telephone Pedestal
Telephone Booths
Light Posts
Telephone Pedestals
2 Telephone Booths
Iron Pin
Telephone Pedestal
2"x2" Cor. (202)
L.A. R/W
Plug
Abandon
Abandoned
Evergreen
Deciduous
Bus Dr. 34' Asphalt
Bus Dr. 30' Asphalt
Bus Dr. 41' Asphalt
Bus Dr. 40' Asphalt
Bus Dr. 33' Concrete
Bus Dr. 33' Asphalt
Bus Dr. 33' Concrete
Rest Dr. 10' Gravel
Rest Dr. 0' Gravel
Rest Dr. 10' Stone
Rest Dr. 10' Stone
Rock
Rocks
Rocks
Rocks

Computations By Initials	Date
Computations Checked By Initials	Date
Final Revisions By Initials	Date

FED RD. DIVISION	STATE	PROJECT		12/34
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WYANDOT COUNTY
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DRAINAGE "D"

Station From	Station To	Side	603 Conduit, Lin. Ft. Type B 33"x 24"	603 Conduit, Lin. Ft. Type F 8"	605 6" Unclassified Pipe Underdrains, as per plan Lin. Ft.	622 Concrete Masonry Cu. Yd.
41+00	41+85	Lt.			85	
48+15	53+00	Lt.			496	
41+00	41+85	Rt.		10	85	
48+12	53+00	Rt.			502	132
47+98	48+00	Lt. & Rt.	36	20		132
Totals			36	30	1168	264

Ref. No.	Sta.	Elev.
1-D	41+00	851.20
2-D	48+15	850.71
	48+85	850.65
3-D	41+26	850.55
	41+38	850.38
4-D	53+00	850.40
	53+26	850.25
	53+46	850.12
	53+60	850.11
	53+80	850.01
	53+88	849.88

Sta. 41+00 to Sta. 53+00

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Sta 41+00 — Restaurant — McDonald Corp. — 3 Bushes Corner Post — Sta. 41+11.53 Rt. — L.A. R/W — Sta. 41+76.54 — 71' Lt. — 23 @ Ramp "A" 22 — End Feather — Sta 42+04.97 @ U.S.R. 30 = Sta 24+15.18 @ Ramp "A" — Sta 42+19.00 @ U.S.R. 30 = Sta. 2+49.91 @ Ramp "F" — 3' Walk — 6"x85'-605 — 60' R — 24 — 42 — 71° — 43 — 44 — U.S.R. 30 — 45 — 46 — 47 — 48 — 49 — 50 — 51 — 52 — 86°30' — 50R — 6"x85'-605 — 60' R — 50R — Begin Sheet — Sta 53+00 — End Sheet — N72°-00'-00"E — 6"x50²-605 — 50"x31"x60' CMP Arch — 8"x10'F — Headwall HW-48 — 6"x496'-605 — Sta 52+04.38 26.25' Lt End Guardrail — 526 @ U.S.R. 23 525 — Sta 524+13.18 @ U.S.R. 23 = Sta 49+94.69 @ U.S.R. 30 — 1-D — 2-D — 3-D — 4-D — 5-D — Headwall HW-48 — 8"x10'F — Sta 48+10.70 26.25' Lt Begin Guardrail — See Sheet 28 for Culvert Details and Concrete Barrier and Guardrail Details and Quantities — All buried cable originally placed at 30" depth. Cable is within protective conduit between Sta. 41+50 and Sta. 56+00. — Note: For pavement width transition details, see Sheet 6. — Sta 47+83.55 26.25' Rt Begin Guardrail — Sta 51+89.87 26.25' Rt End Guardrail — 523 N43°-47'-00"W 522 — C.B.T. M.H. #1 — Telephone Pedestal — 4" Inlet — Iron Pin — Corner Post — Sta. 41+45.38 — L.A. R/W — Sta. 41+63.82 81' Rt. — Sta. 3+45.89 "F" — 4 — Ramp "F" — 5 — End Feather

B.M.#4, Sta. 41+45
"x" in S.W. Post East Rice sign
70' Rt., Eleu. 851.50

B.M.#5, Sta 47+45
Chiseled "x" in ctr. bolt
West end (South) Guardrail
225' Rt., Eleu. 846.91

B.M.#6, Sta 52+23
Chiseled "x" in ctr. bolt
East end (South) Guardrail
225' Rt., Eleu. 849.99

Excavation = 1596 Cu. Yd.
Embankment = 998 Cu. Yd.

860 — 855 — 850 — 845 — 840 — 835

87.5' Feather — 112.5' Feather & Wearing Course Removal — 92.5' Wearing Course Removal & Replace with 1½" 404 — 112.5' Feather & Wearing Course Removal — 87.5' Feather

+15, 46' Lt @ Outlet F.L. Elev. 845.00
+15, 21.2' Lt @ Bend F.L. Elev. 845.50
+12, 21.2' Rt @ Bend F.L. Elev. 845.50
+12, 47' Rt @ Outlet F.L. Elev. 844.50
+85, 24.5' Rt F.L. Elev. 847.80
6"-605, Rt
6"-605, Lt
+85, 24' Lt F.L. Elev. 846.77
+00, 22.2' Lt F.L. Elev. 847.9
6"-605, Lt
6"-605, Rt
50"x31" Corrugated Metal Pipe Arch F.L. Elev. 843.30

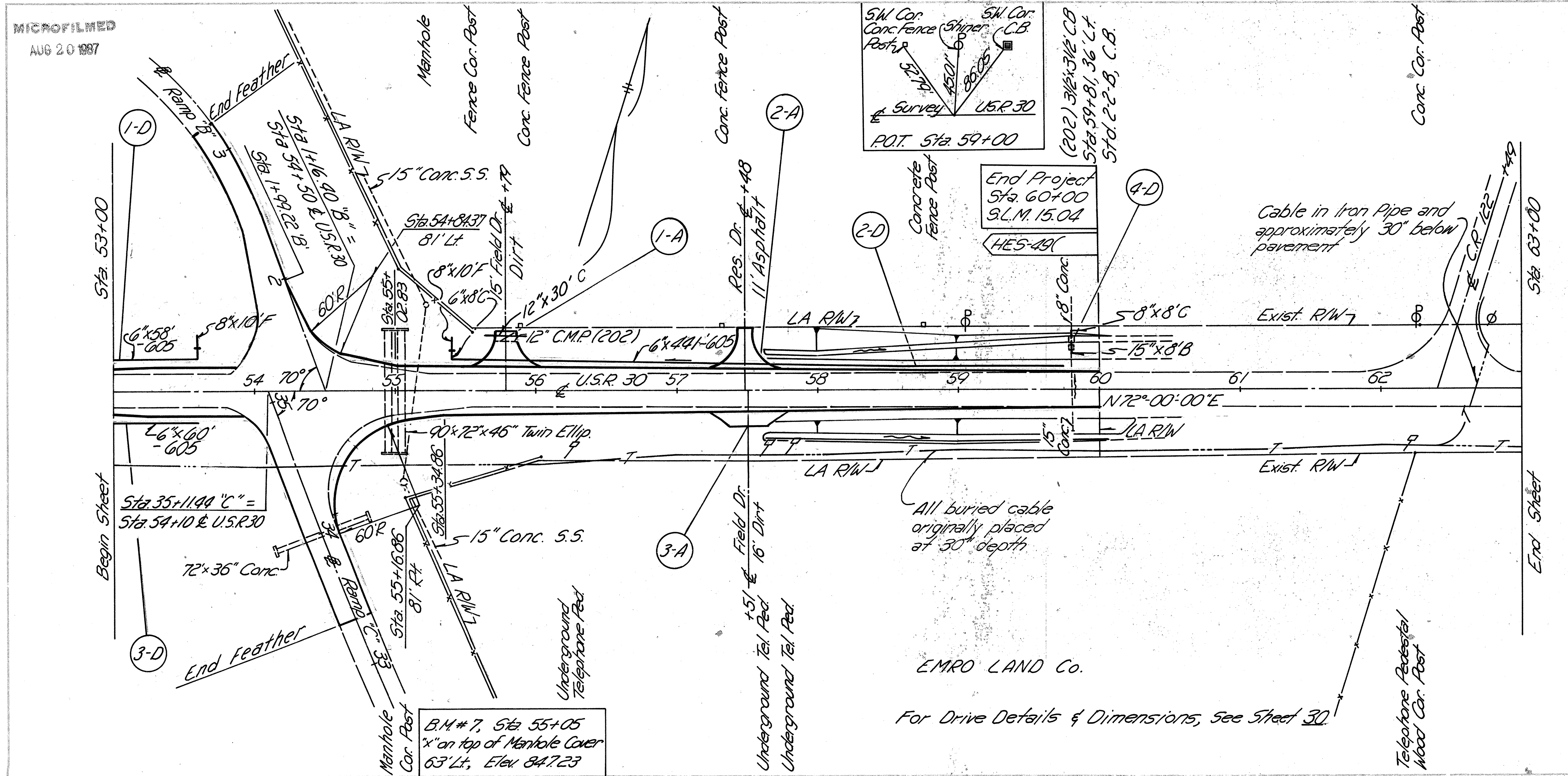
For further details of 6"-605 Underdrains See Cross Sections.

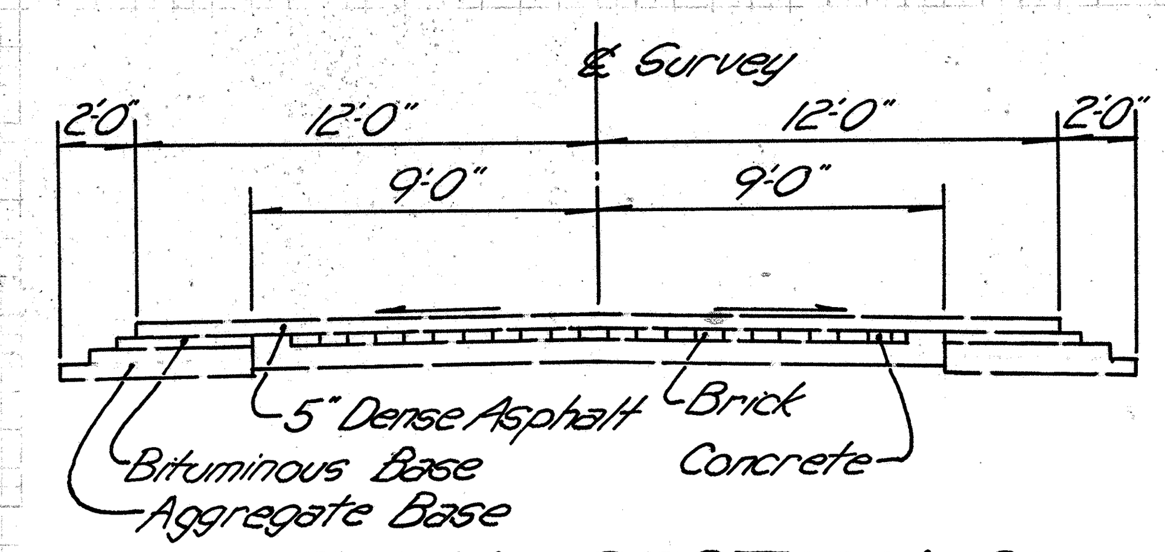
| | | |

PED RD. DIVISION	STATE	PROJECT
	OHIO	

WYANDOT COUNTY
WYA-30-14.47

Computations By Initials SHK Date 4/16/86
Computations Checked By Initials MJB Date 4-16-86
Final Revisions By Initials Date





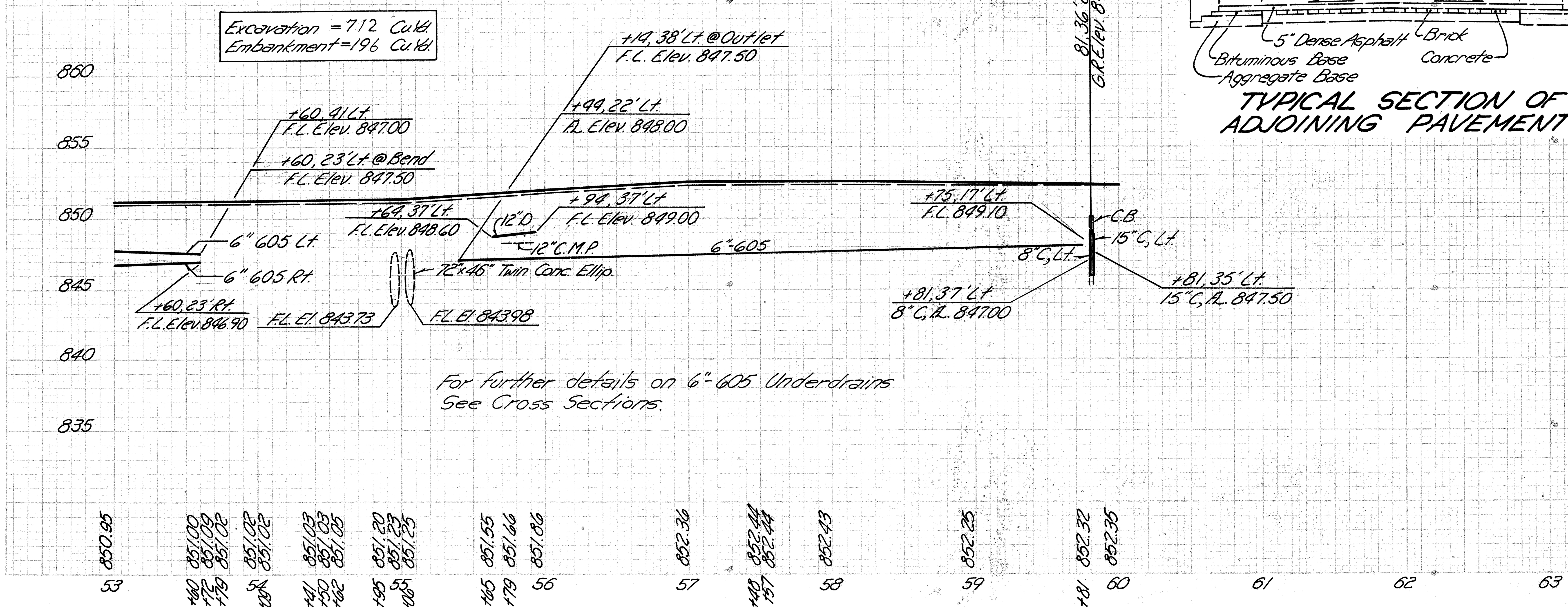
TYPICAL SECTION OF ADJOINING PAVEMENT

SIDE APPROACHES "A"

Ref. No.	Station	Side	202 Pipe Removed 24" and Under Lin. Ft.		304 6" Aggregate Base		404 2" Asphalt Concrete	408 Bituminous Prime Coat	603 Conduit Type "C" 12" Lin. Ft.	Remarks	Width	Driveways Length 304	Driveways Length 404
1-A	55+79	Lt.	23		10.85				30	Field	15	25	—
2-A	57+48	Lt.			11.60		3.87	27.83		Res.	11	29	27
3-A	57+51	Rt.			6.59					Field	16	10	—
	Totals		23		29.04		3.87	27.83	30				

DRAINAGE "D"

Ref. No.	Station From	Station To	Side	202 Catch Basin or Inlet Removed Each	604 Catch Basin Standard No. 2-2-B Each	603 Conduit Lin. Ft.	603 Conduit Type C 8"	603 Conduit Type F 8"	603 Conduit Type	603 Conduit Type B 15"	605 6" Unclassified Pipe Underdrains as per plan Lin. Ft.	Bends & Branches
1-D	53+00	53+60						10'			74	1-90°
2-D	55+90	59+75						10'			441	1-90°
3-D	53+00	53+60									60	
4-D	59+79	59+83		1	1		8'			8'		
	Totals			1	1		8	20'		8'	567	



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Fed. No. Division	State	Project
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WYANDOT COUNTY
WYA-30-14.47

Computations By Initials DRL Date 4-16-86
Computations Checked By Initials NJW Date 4-16-86
Final Revisions By Initials Date


SEEDING
END WIDTH
SQ. YDS.
END AREA CUT FILL
VOLUME CUT FILL
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55
-31 Correction, Dr. Lt.
8" Water Line
6"-605
32+72
851.41
10' Asphalt Res. Dr. Lt. (On Skew)
8" F.T. (Aban)
12" C
Correction, Dr. Lt.
-11 -1
R/W
5:1
Std. 2-2B Catch Basin
Sta. 32+53, 38' Lt.
Gr. Elev. 849.00
8" F
6" C
6"-Tee
32+53
851.56
202 Remove
End 8" C, Bk.
Sta. 32+52, 38' Lt.
F.L. Elev. 842.75
8" Water Line
8" F.T. +53, 37' Lt.
F.L. Elev. 847.00
Begin 12" C, Ahd.
Sta. 32+54, 38' Lt.
F.L. Elev. 842.72
73
38 20
849.25
32+00
851.91
4:1
3:1
848.67
6"-605
Telephone Cable
135 63
789
8" Water Line
Begin 6"-605
Sta. 31+50, 17.6' Lt.
F.L. Elev. 848.50
69
35 14
849.73
31+00
852.45
6"-605
849.73
Telephone Cable
47 22
291
8" Water Line
62
28 16
849.92
30+60
852.60
6"-605
850.15
Telephone Cable
8" Water Line
397
61 21
-31 Correction, Dr. Rt.
Correction, Dr. Rt.
-16
2.4%
8" Plastic, F.L. 850.28 (30+56)
6"-605
851.76
Telephone Cable
30+48
852.70
10' Stone Res. Dr. Rt. (On Skew)
57
27 3
360
850.21
30+00
852.86
851.83
Begin 6"-605
Sta. 30+00, 16' Rt.
F.L. Elev. 849.50
Telephone Cable
40 4
24
Sta. 29+20
8" Water Line
Sta. 29+20
0 0
1806 Sheet Total
Begin Earthwork Lt.
Sta. 29+20
Begin Earthwork Rt.
Sta. 29+20
75 75 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
Sta. 30+00 to Sta. 32+72
Rev. 4-29-87 DRL

SEEDING
END WIDTH | SQ YDS

75 70 65 60 55 50 45 45 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55

Computations By Initials BRL Date 4-16-86
Computations Checked By Initials MJV Date 4-16-86
Final Revisions By Initials Date

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

15
34

WYANDOT COUNTY
WYA-30-14.47

END AREA CUT | END AREA FILL | VOLUME CUT | VOLUME FILL

Begin 12" F
Sta. 34+32, 79' Lt.
F.L. Elev. 833.00

3.5:1

34+28
850.20

℄ 8" Water Line

72" Conc.

8" Conc. Bk.

8" Conc. Ahd.

F.L. 827.98

R/W

105 100 95 90 85 80

34+00
850.36

℄ 8" Water Line

End 12" F
Sta. 34+14.80' Lt.
F.L. Elev. 830.50

R/W

100 95 90 85 80 75

℄ 12" F

Begin 12" F
Sta. 34+07, 73' Rt.
F.L. Elev. 831.80

3:1

72" Conc.

Telephone Cable

8" Conc., Ahd.

8" Conc., Bk.

33+75
850.59

℄ 8" Water Line

℄ 8" S.S. (Abandon)

End 12" F
Sta. 33+95, 75' Rt.
F.L. Elev. 834.00

F.L. 829.29

℄ 8" Conc. (Abandon)

℄ 12" C
Telephone Cable

R/W

℄ 12" C

95 90 85 80 75

75 80 85

33+21
851.05

6"-605
Elev. 847.62

Sta. 33+09, 218 Rt.
F.L. Elev. 848.00

4:1

6"-605

8" Conc. (Abandon)

8" F

C.B. 202 (Abondon)
End 8" F, Sta. 33+21.41 Rt.
F.L. Elev. 846.00

Telephone Cable
Std. 2-2B Catch Basin
Sta. 33+21.42' Rt.
Gr. Elev. 847.40

Begin 12" C
Sta. 33+22.42' Rt.
F.L. Elev. 845.00

R/W

33+00
851.20

6"-605

℄ 8" Water Line

℄ 8" S.S. (Abandon)

℄ 12" C

6"-605

4:1

3:1

847.61

Telephone Cable

Sta. 32+00

Sta. 32+00

1772 Sheet Total

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
Sta. 33+00 to Sta. 34+28

Rev. 4-29-87 BRL

MICROFILMED
AUG 21 1987

Computations By	
Initials DRK	Date 4-16-86
Computations Checked By	
Initials NW	Date 4-16-86
Final Revisions By	
Initials	Date

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

WYANDOT COUNTY
WYA-30-14.47

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55
SEEDING
21 Lt, Sta. 36+56
Std. 2-2B Catch Basin
Sta. 36+56, 34' Lt.
Gr. Elev. 848.80
R/W
12:1
6"-605 (Tee)
Elev. 845.50
6"C
8" Water Line
8"F
8" Vit.
F.L. 844.20
12"C ℄ 844.80 Bk.
12"D ℄ 844.90 Ahd.
202 Removal
+56, 33' Lt.
F.L. Elev. 845.00
36+56
849.89
Sta. 36+56, Lt. 17 7
24 Rt., Sta. 36+53
156 Lt.
162 Rt.
12:1
36+53
849.88
6"-605
Telephone Cable
12"C
Sta. 36+53, Rt. 16 6
Lt. 38 10
8" S.S. (Abandon)
Begin 6"-605
Sta. 36+25, 23' Rt.
F.L. Elev. 847.00
Rt. 31 23
29 Lt. Ahd.
31 Rt. Ahd.
60 Bk.
7:1
7:1
4:1
36+00
849.92
6"-605
8" Water Line
12"C
8" S.S.
Telephone Cable
12"C
8" S.S. (Abandon)
Lt. Ahd. 20 3
Rt. Ahd. 16 17
Bk. 36 20
230
33 43
3.5:1
35+70
849.83
6"-605
Elev. 845.70
12" Adjusted to 1' Cover
8" Water Line
8" S.S.
Telephone Cable
12"C
8" S.S. (Abandon)
78
23 58
61 191
696
75 80 85 90
Sta. 35+00 24 89
83 350
101 Sta. 35+00
1161
108 Sta. 34+00
35+00
849.87
3.5:1
8" Water Line
12"C
8" S.S.
Telephone Cable
12"C
8" S.S. (Abandon)
Sta. 34+00 21 100
2405 Sheet Total 90 85 80 75
75 80 85 90 95 100
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
Sta. 35+00 to Sta. 36+56

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

WYANDOT COUNTY
WYA-30-14.47

17
34

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55

SEEDING END WIDTH	SEEDING SQ. YDS.
39	Ahd.
17	Lt., Bk
22	Rt. Bk.
34	Lt.
17	Lt.
-68	Correction, Dr. Lt.
46	Lt.
235	Rt.
17	Lt.
-109	Correction, Dr. Rt.
22	Rt., Sta. 37+22
-96	Correction, Dr. Lt.
252	Lt.
-48	Correction, Dr. Rt.
176	Rt.
21	Lt. Sta. 36+56
24	Rt. Sta. 36+53
422	Sheet Total

38+18
850.56

Telephone Cable
12"D
8" Water Line
6"-605
6"-605
Std. 2-2B Catch Basin
Sta. 38+18, 39' Rt.
Gr. Elev. 848.90
12"D Æ 846.77, Bk. @ C.B.
12"D Æ 846.87, Ahd. @ C.B.
12:1
5:1
Telephone Cable

38+00
850.50

Sta. 37+98 Lt
30' Asphalt Dr.
6"-605
12" C.M.P.
12"D
Telephone Cable

37+75.5
850.36

Telephone Cable
Std. 2-2B Catch Basin
Sta. 37+59, 31.5' Lt.
Gr. Elev. 849.50
12"B
8" Water Line
6"-605
12"D F.L. Elev. 845.82 Bk. @ C.B.
12"D F.L. Elev. 845.92 Ahd. @ C.B.
202 Pavement Removal
33' Concrete Bus. Dr. Rt.
6"-605
12" C.M.P. F.L. 846.45 (37+39)
12"D
Telephone Cable

37+22
850.14

202 Removal
6" Inlet, 37+98
6" F.T.
12"D
8" Water Line
6"-605

37+22, 23' Rt.
6"-605 (Tee)
Æ Elev. 846.60
C.B. 202 Removal
6"C
8"F
8" F.T.
12:1
5:1
Telephone Cable
Std. 2-2B Catch Basin
Sta. 37+22, 39' Rt.
Gr. Elev. 848.50
12"C Æ 845.90 Bk. @ C.B.
12"D Æ 846.00 Ahd. @ C.B.

37+14
850.08

34' Stone & Asphalt Dr. Lt.
37+22, 38' Rt.
F.L. Elev. 846.10

37+10
850.08

10' Stone Res. Dr. Rt.
12:1
6"-605
12"C
8" S.S. (Abandon)
Telephone Cable

37+00
850.03

12"D
8" Water Line
6"-605
6"-605
12:1
12"C
8" S.S. (Abandon)
Telephone Cable

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Ahd.	54	11		
Sta. 38+18 Bk. Lt.	31	0		
Bk Rt.	23	11		
Lt.			19	0
Lt.	25	0		
Lt.			28	0
Correction Dr. Lt.			+23	
Rt.			80	59
Lt.	36	0		
Correction, Dr. Rt.			-44	
Rt.	22	22		
Lt.			117	15
Correction, Dr. Lt.			+78	-12
Rt.			49	36
Correction, Dr. Rt.			+7	-2
Sta. 36+56, Lt.	17		7	
Sta. 36+53, Rt.	16		6	

Computations By	Initials B.R.L	Date 4-16-86
Computations Checked By	Initials MJV	Date 4-16-86
Final Revisions By	Initials	Date

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

Sta. 37+00 to Sta. 38+22

Computations By Initials D.R.L. Date 4-16-86
Computations Checked By Initials MJV Date 4-16-86
Final Revisions By Initials Date

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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WYANDOT COUNTY
WYA-30 -14.47

SEEDING: END WIDTH | SQ. YDS

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55

Std. 2-2B Catch Basin
Sta. 39+80, 36.5' Lt.
Gr. Elev. 850.00

End 12"D
Sta. 39+79, 36.5' Lt.
F.L. Elev. 847.75

202 Pavement Removal

R/W

Telephone Cable — 12"D — 6"-605 — 8" Water Line

39+56
851.29
33' Concrete Bus. Dr. Rt.

6"-605 — Telephone Cable

END AREA CUT | FILL — VOLUME CUT | FILL

-109 Correction, Dr. Lt.

Correction, Dr. Rt. -44

Asphalt Parking Lot — R/W

202 Removal

Telephone Cable — 12"D — 6"-605 — 6" Trap plug & Aban. — 8" Water Line

39+51
851.27
22" Inlet Lt. (202)

40' Asphalt Bus. Dr. Lt.
Sta. 39+36

Correction, Dr. Lt. +28

22 Rt. Sta. 39+09

Rt. 33 1

39+09
851.12

6"-605 — C.B. 202 Removal — 12" Conc. (202) — 12:1 — 6:1 — Telephone Cable

Std. 2-2B Catch Basin
Sta. 39+09, 39' Rt
Gr. Elev. 849.65

End 12" D
Sta. 39+08, 39 Rt.
F.L. Elev. 847.42

847.42

22 Rt. — Rt. 10 1

17 Lt. Ahd.
22 Rt Ahd.
39 Bk.

Telephone Cable — Std. 2-2B Catch Basin Sta. 38+91, 33' Lt. Gr. Elev. 850.07 — 6"-605 — 8" Water Line — 12"D F.L. Elev. 847.12 Bk @ C.B. — 12"D F.L. Elev. 847.22 Ahd. @ C.B.

39+00
851.08

12" conc. — 6"-605 — 12"B — Telephone Cable

Ahd., Lt. 38 0
Ahd., Rt. 29 0
Bk. 67 0

-109 Correction, Dr. Rt.

Telephone Cable — 12"B — 6"-605 — 8" Water Line

38+60
850.80
40' Asphalt Bus. Dr. Rt.

12" Conc. (202) — 6"-605 — 12"B — Telephone Cable

355 — 184 17

Correction, Dr. Rt. +43

-120 Correction, Dr. Lt.

Telephone Cable — 12"B — 6"-605 — 8" Water Line

38+45
850.68
44' Asphalt Bus. Dr. Lt.

6"-605 — 12" Conc. (202) — 12"B — Telephone Cable

Correction, Dr. Lt. +36

39 Sta. 38+18 — Sta. 38+18 54 11

39 Sheet Total

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

Sta. 38+45 to Sta. 39+56

Computations By Initials D.R.B. Date 4-16-86
Computations Checked By Initials WJV Date 9-16-86
Final Revisions By Initials Date

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

WYANDOT COUNTY
WYA-30 - 14.47

19
34

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55

SEEDING	
FIND WIDTH	SQ. YDS.

+45 Correction, Ramp "A" Lt.

92+12
850.48
℄ Ramp "A" Lt. (on skew)

24 Back

53

42+00
850.55

Telephone Cable

Back 19 0

12 0

39

53

41+85
850.65

End 6"-605
Sta. 41+85, 24' Lt.
F.L. Elev. 846.77

End 6"-605
Sta. 41+85, 24.5' Rt.
F.L. Elev. 847.80

Telephone Cable

24 0

11 1

56

L.A.
R/W

4:1

6"-605

41+75
850.71

6"-605

5:1

848.02

5:1

Telephone Cable

38 3

126 19

396

39

L.A.
R/W

4:1

6"-605

41+00
851.20

6"-605

5:1

848.87

L.A.
R/W

Telephone Cable

53 11

196 30

433

39 Ahd.
17 Lt., Bk.
22 Rt., Bk.
189 Lt.
222 Rt.
-109 Correction for Dr. @ 39+56 Rt.
22 Rt. Sta. 39+09
17 Lt. Sta. 39+00

1282 Sheet Total

L.A.
R/W

Fire Hydrant
Sta. 39+96

850.21

Telephone Cable

8" Water Valve
Sta. 39+96

6"-605

40+00
851.95

6"-605

12:1

5:1

850.00

L.A
R/W

Telephone Cable

Ahd. 53 5
Bk., Lt. 28 0
Bk., Rt. 25 5

Lt. 122 0
Rt. 98 10

Sta. 39+09, Rt. 33 1
Sta. 39+00, Lt. 38 0

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

Sta. 40+00 to Sta. 42+12

END AREA		VOLUME	
CUT	FILL	CUT	FILL

Computations By Initials DRL Date 4-16-86
Computations Checked By Initials NJC Date 4-16-86
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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

20
34

WYANDOT COUNTY
WYA-30-14.47

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
66		38	27		
	733			161	93
66		49	23		
	143			34	14
63		42	14		
	109			24	5
35	Ahead	23	0		
				15	0
		Ahead	35	0	
	+50 Correction, Ramp "F" Rt.				
	1035 Sheet Total			Correction, Ramps Lt. & Rt.	+12

845.80
44+00
849.00
4:1
4:1
846.34
℄ Telephone Cable

846.72
43+00
849.88
4:1
4:1
847.20
℄ Telephone Cable

846.85
42+80
850.01
4:1
847.35
℄ Telephone Cable

42+60
850.12
Telephone Cable

42+46
850.25
Telephone Cable

42+26 ℄ Ramp "F" Rt.
850.40
Telephone Cable

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
Sta. 42+26 to Sta. 44+00

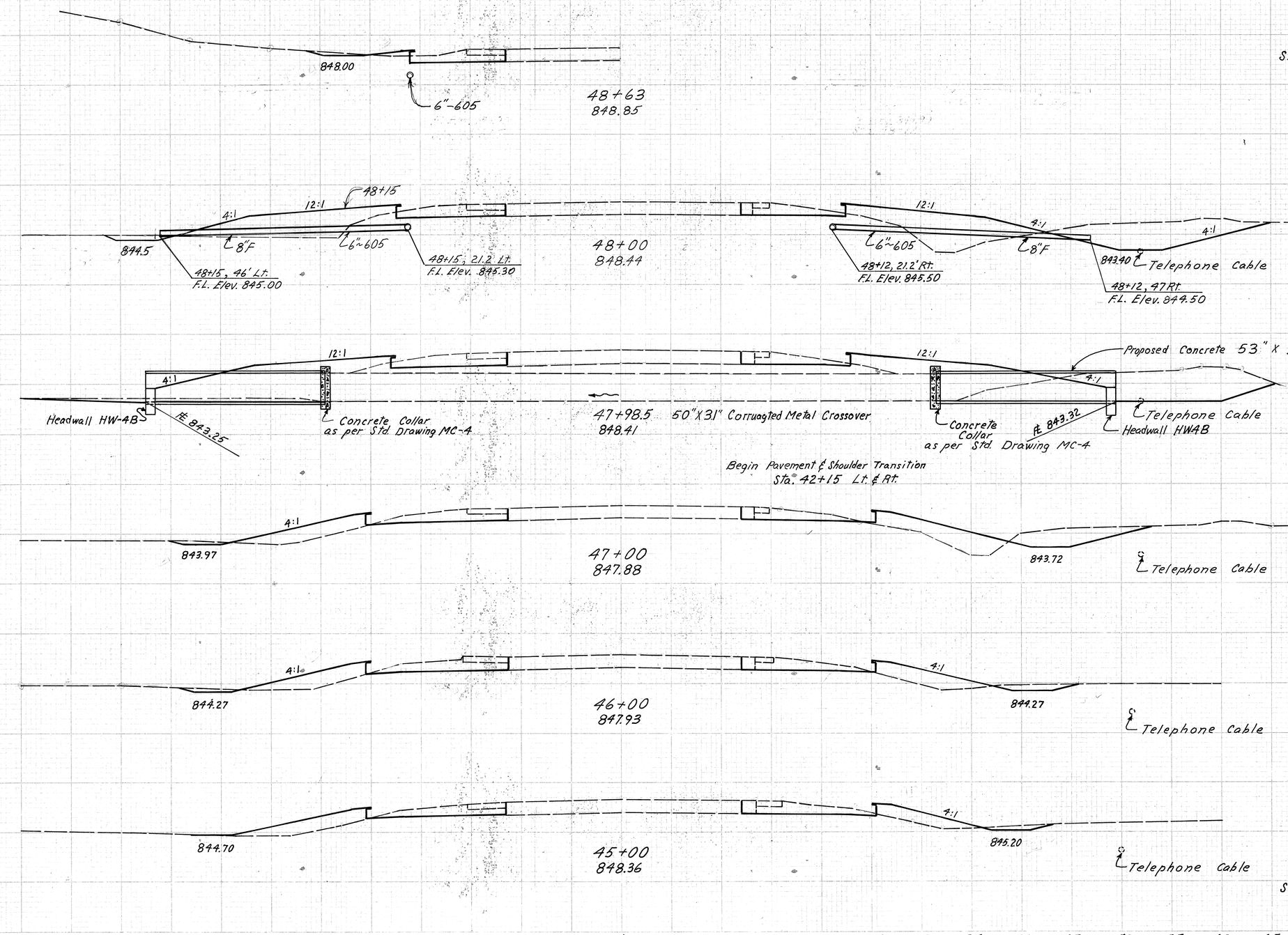
Computations By Initials D.R.S. Date 4-16-86
Computations Checked By Initials MJC Date 4-16-86
Final Revisions By Initials Date

FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO		

21
34

WYANDOT COUNTY
WYA-30-14.47

SEEDING END WIDTH	SEEDING SQ YDS		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
					Sta. 48+63, Lt.	13 2
23		Lt				
	238	Lt.			Lt.	30 75
45		Lt., Ahd.			Ahd., Lt.	13 62
55		Rt., Ahd.			Ahd., Rt.	50 43
100		Bk.			Bk.	63 105
	956					193 269
72						41 40
	756					135 131
64						32 31
	672					111 107
57						28 27
	683					122 100
66		Sta. 44+00			Sta. 44+00	38 27
	3305	Sheet Total				



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
Sta. 45+00 to Sta. 48+63

Computations By Initials D.R.L.	Date 4-16-86
Computations Checked By Initials MJC	Date 4-16-86
Final Revisions By Initials	Date

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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WYANDOT COUNTY
WYA-30-14.47

SEEDING

END WIDTH	SQ. YDS

Computations By	
Initials D.R.S	Date 4-16-86
Computations Checked By	
Initials NJV	Date 4-16-86
Final Revisions By	
Initials	Date

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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34

WYANDOT COUNTY
WYA-30-14.47

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS	CUT	FILL	CUT	FILL
27	Rt. Back, Sta. 53+79				
	53+79 851.02				
	Back, Rt.	17	4		
	Telephone Cable				
61	Rt.				
	Sta. 53+72, Lt.	17	17		
36	Lt.				
	53+72 851.09				
	Rt.			12	5
50	Lt.				
	Lt.			10	7
	Ahd., Lt	26	15		
	Ahd., Rt.	17	10		
39	Lt., Ahd				
31	Rt., Ahd				
70	Bk				
	Bk.	43	25		
	4:1 4:1 8"F 6"-605 +60, 23' Lt. 6"-605 F.L. Elev. 847.50				
	53+60 851.00				
	End 6"-605 Sta. 53+60, 23' Rt. F.L. Elev. 846.90				
	Telephone Cable				
	+60, 41' Lt., 8"F F.L. Elev. 847.00			98	57
467					
70	4:1 4:1 6"-605				
	53+00 850.95				
	6"-605				
	Telephone Cable				
		45	26		
717	End Pavement & Shoulder Transition Sta. 52 + 42.5 Lt. & Rt.			146	70
59	4:1 4:1 6"-605, +00, 22' Lt. F.L. Elev. 847.90				
	52+00 851.04				
	6"-605				
	Telephone Cable				
		34	12		
583				106	24
	4:1 4:1 6"-605				
	51+28 851.01				
	Telephone Cable				
46	Sta. 51+00				
	Sta. 51+00	23	1		
1878	Sheet Total				

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

Sta. 51+28 to Sta. 53+79

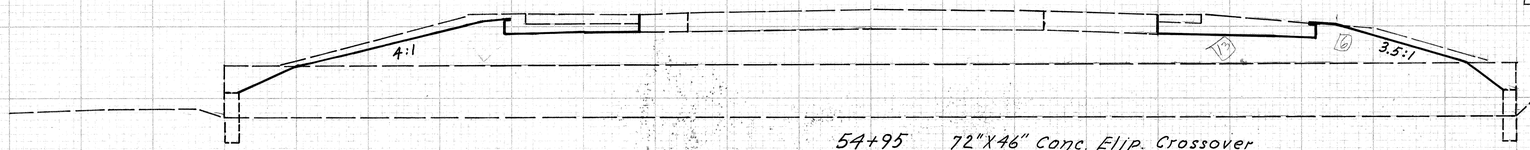
Computations By Initials D.K.L Date 4-16-86
Computations Checked By Initials WJV Date 4-16-86
Final Revisions By Initials Date

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

24
34

WYANDOT COUNTY
WYA-30-14.47

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55



SEEDING END WIDTH	SEEDING SQ. YDS.		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
35		Ahd.	Ahd	42	0	
20		Lt., Bk.	Bk., Lt.	23	0	
15		Rt., Bk	Bk., Rt.	19	0	
		54+95 851.20 72"X46" Conc. Elip. Crossover				
		℄ Telephone Cable				
	53	Rt.	Rt.			18 0
			Lt.			33 0
14		Rt. Sta. 54+62, Ahead	Ahead, Rt.	10	0	
	105	Lt.				
		54+62 851.05				
		℄ Telephone Cable				
		54+50 851.03				
22		Lt., Ahead	Sta. 54+50, Ahead Lt.	17	0	
		54+41 851.03 ℄ Ramp "B" Lt., (on skew)				
+55		Correction, Ramp "C" Rt.	Correction, Ramps. Lt. & Rt.			+10
+45		Correction, Ramp "B" Lt.				
		54+09 851.02 ℄ Ramp "C" Rt. (on skew)				
		℄ Telephone Cable				
0		Lt., Back	Back, Lt.	16	0	
		54+00 851.02				
		℄ Telephone Cable				
	56	Lt.	Lt.			17 9
36		Lt., Sta. 53+72	Sta. 53+72, Lt.	17	17	

314 Sheet Total

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

Sta. 54+00 to Sta. 54+95

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

25/34

WYANDOT COUNTY
WYA-30-14.47

Computations By Initials D.R.L.	Date 4-16-86
Computations Checked By Initials	Date
Final Revisions By Initials	Date

SEEDING END WIDTH	SEEDING SQ YDS	END AREA CUT	END AREA FILL	VOLUMES CUT	VOLUMES FILL
		32	8		
52					
	572				128 28
51					
		37	7		
-47	Correction, Dr. Lt.				
	202			47	11
				-1	-3
53		36	10		
	302			74	13
39		32	3		
34				7	1
63		32	1		
27				7	1
35	Sta. 54+95	42	0		
1090	Sheet Total				

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55

L.A. R/W — 4:1 — 6:1 — 4:1 — 4:1 — L.A. R/W — Telephone Cable

6"-605

57+00
852.36

L.A. R/W — 4:1 — 6:1 — 4:1 — 4:1 — L.A. R/W — Telephone Cable

6"-605

56+00
851.86

End 12"D
Sta. 55+94, 37' Lt.
F.L. Elev. 849.00

L.A. R/W

12"D — 12" C.M.P. (202) — 6"-605

55+79
851.66

15' Field Dr. Lt.

Correction, Dr. Lt.

Begin 12"D
Sta. 55+64, 37' Lt.
F.L. Elev. 848.60

L.A. R/W — 4:1 — 3:1 — 4:1 — 4:1 — L.A. R/W

848.50 — 8"F
Sta. 55+44, 38' Lt.
F.L. Elev. 847.50

6"-605
Sta. 55+44, 22' Lt.
F.L. Elev. 848.00

55+65
851.55

Telephone Cable

4:1 — 3:1 — 4:1 — 4:1 — 2:1

Manhole
55+21

18" Conc.
F.L. 840.64

F.L. 843.95

15" Conc.
F.L. 840.83

55+06
851.25

72"X46" Conc. Elip. Crossover

F.L. 844.00 Telephone Cable

15" Conc.
F.L. 841.43

Manhole
55+05

15" Conc.
F.L. 841.08

15" Conc.
F.L. 841.38

4:1 — 4:1

55+00
851.23

Telephone Cable

Begin Pavement Transition Sta. 55+00 Lt & Rt.

Sta. 54+95

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

Rev. 4-29-87 D.R.L. Sta. 55+00 to Sta. 57+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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WYANDOT COUNTY
WYA-30-14.47

Computations By Initials D.K.S.	Date 4-16-86
Computations Checked By Initials M.V.	Date 4-16-86
Final Revisions By Initials	Date

SEEDING
END WIDTH

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55

12 Rt., Sta. 60+25
12 Lt., Sta. 60+10
61 Rt. 25
23 Lt. 10
30 Lt., Ahd.
32 Rt., Ahd.
62 Bk.

End Earthwork Lt. Sta. 60+10
End Pavement Transition Sta. 60+00
End Earthwork Rt. Sta. 60+25

L.A. R/W
5:1
849.15
60+00
852.35
7:1
L.A. R/W
℄ Telephone Cable

672
L.A. R/W
5:1
+81, 45' Lt. 8"Conc.
Connect 8" C to Existing 8"
+81, 37' Lt.
F.L. Elev. 847.00
8"C
202 Removal
2-2B C.B. Sta. 59+81, 36' Lt.
grate Elev. 848.90
℄ 15" Conc. 847.50
℄ 8" Conc. 847.00
15"B
+81, 35' Lt.
F.L. 847.00
℄ 15" Conc.
+81, 27' Lt.
Connect 15" to Existion 15"B
59+81
852.32
℄ 848.28

59
L.A. R/W
6:1
End 6"-605
Sta. 59+75, 17' Lt.
F.L. Elev. 849.10
6"-605
59+00
852.25
5:1
L.A. R/W
℄ Telephone Cable

633
55
L.A. R/W
5:1
12:1
6"-605
58+00
852.43
6:1
4:1
L.A. R/W
℄ Telephone Cable

594
-18 Correction, Dr. Rt.
L.A. R/W
57+51
852.44
16' Field Dr. Rt.
L.A. R/W
℄ Telephone Cable
Correction, Dr. Rt.

-51 Correction, Dr. Lt.
L.A. R/W
6"-605
57+48
852.44
11' Asphalt Dr. Lt.
Correction, Dr. Lt.

52 Sta. 57+00
1914 Sheet Total
Sta. 57+00

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta. 60+25, Rt.	0	0		
Sta. 60+10, Lt.	0	0		
Rt.			2	2
Lt.			1	1
Ahd., Lt	4	2		
Ahd. Rt.	5	4		
Bk.	9	6		
			44	22
	15	6		
			94	19
			36	4
			126	22
-7				
			-8	
Sta. 57+00	32	8		

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

Rev. 4-29-87 D.K.S. Sta. 57+48 to Sta. 60+00

Computations By Initials SHK Date 4/16/86
Computations Checked By Initials MJB Date 4-16-86
Final Revisions By Initials Date

FHWA REGION	STATE	PROJECT	
5	OHIO		

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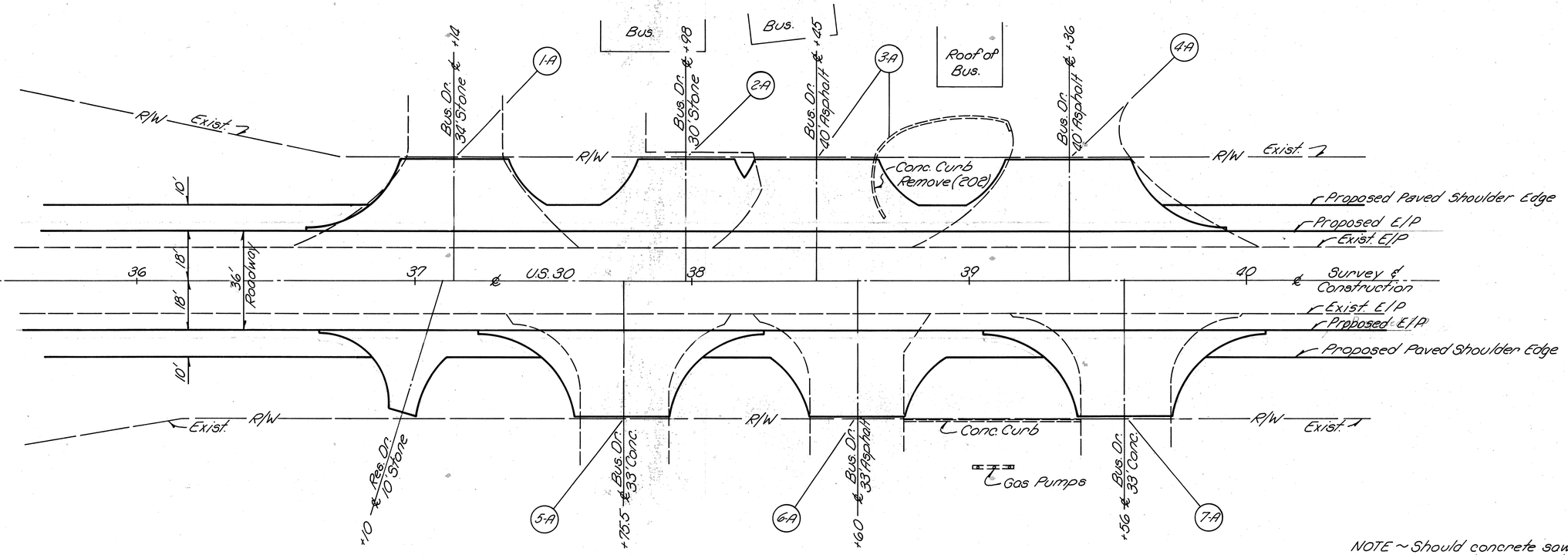
WYANDOT COUNTY
WYA-30-14.07

SIDE APPROACHES
(Sta. 37+00 to Sta. 40+00)



For Quantities for Residence Drive at Sta. 37+10, See Sheet 11.

For Drive Details & Dimensions, See Sheet 30.

NOTE ~ Should concrete sawing be necessary for the Approaches at Stations 37+75.5 & 39+56, the cost shall be included with Item 451 - 8" Reinforced Concrete Pavement

SIDE APPROACHES "A"

Ref. No.	Station	Side	202 Pavement Removal Sq. Yd.	202 Curb Removal Lin. Ft.	304 6" Aggregate Base Cu. Yd.	301 8" Bituminous Aggregate Base Cu. Yd.	402 1¾" Asphalt Concrete Cu. Yd.	404 1½" Asphalt Concrete Cu. Yd.		408 Bituminous Prime Coat Gal.	451 8" Reinforced Concrete Pavement Sq. Yd.	Remarks	Driveways Width L.F.	Length 304 L.F.	Length 402, 301 or 451 L.F.
1-A	37+14	Lt.			21.48	32.64	7.14	5.10		58.74		Bus.	34	27	27
2-A	37+98	Lt.			19.29	25.72	5.63	4.02		46.30		Bus.	30	27	27
3-A	38+45	Lt.		20	23.91	31.88	6.97	4.98		57.38		Bus.	40	27	27
4-A	39+36	Lt.			27.24	36.32	7.95	5.68		65.38		Bus.	40	27	27
5-A	37+75.5	Rt.	174.69		27.86		8.12	5.80			167.13	Bus.	33	32	32
6-A	38+60	Rt.			27.83	37.10	8.12	5.80		66.79		Bus.	33	32	32
7-A	39+56	Rt.	174.69		28.08		8.19	5.85			168.47	Bus.	33	32	32
	Totals		349.38	20	178.69	163.66	52.12	37.23		294.59	335.60				

Rev. 4/29/87 KMS

SIDE APPROACHES

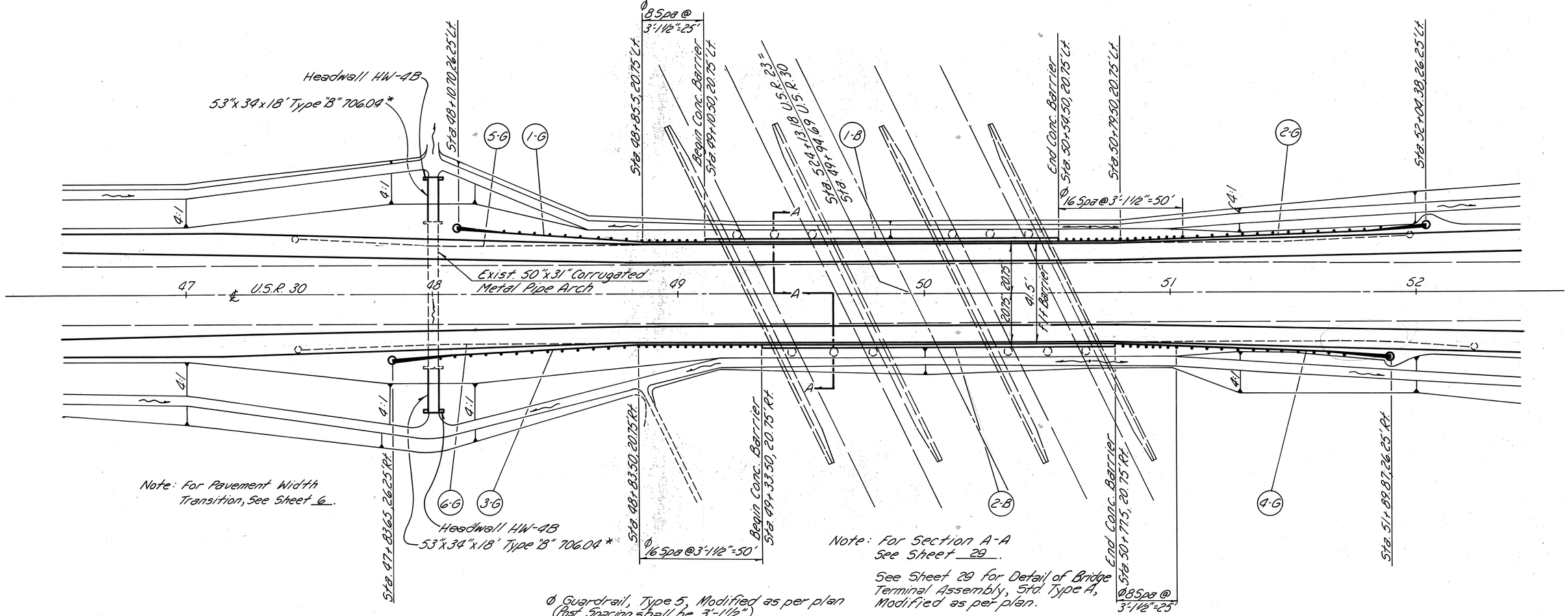
CULVERT EXTENSION & BARRIER/GUARDRAIL LAYOUT

Computations By Initials SHK Date 11/16/86
Computations Checked By Initials SHK Date 11/16/86
Final Revisions By Initials Date

FHWA REGION	STATE	PROJECT	
5	OHIO		

28/34

WYANDOT COUNTY
WYA-30-14.47



Note: For Pavement Width Transition, See Sheet 6.

Note: For Section A-A See Sheet 29.

See Sheet 29 for Detail of Bridge Terminal Assembly, Std. Type A, Modified as per plan.

Ø Guardrail, Type 5, Modified as per plan (Post Spacing shall be 3'-1 1/2")

* The Contractor shall remove the existing headwalls. Care shall be taken so as to not break or tear the ends of the existing pipe. A concrete collar shall be cast around the Corrugated Metal & Concrete Pipe as per the Engineer. A concrete invert shall be cast inside the pipe so that a desired flow line is accomplished as per the Engineer. The cost of removing the headwall, the cast in place collar, and invert will be included in the price of the extension length of Item 603, Conduit, Type "B".

For F.L. Elevations of 53"x34" Pipe, See Cross Section Sheet 23.

For other drainage details, See Sheet 12&13.

GUARDRAIL "G" & BARRIER "B"

Ref. No.	Station From	Station To	Side	202 Guardrail Removed	606 Guardrail Std. Type "5"	606 Guardrail Std. Type 5, Modified as per plan	606 Bridge Terminal Assembly, Std. Type A, Mod. as per plan	606 Anchor Assembly, Std. Type "A"		622 Concrete Barrier Std. Type "D" #
				Lin. Ft.	Lin. Ft.	Lin. Ft.	Each	Each		Lin. Ft.
1-G	48+10.70	49+10.50	Lt.		50.00	25.00	1	1		
2-G	50+54.50	52+04.38	Lt.		75.00	50.00	1	1		
3-G	47+83.65	49+33.50	Rt.		75.00	50.00	1	1		
4-G	50+77.50	51+89.87	Rt.		62.5	25.00	1	1		
5-G	47+94.00	51+97.00	Lt.	450.00						
6-G	47+45.00	52+23.00	Rt.	475.00						
1-B	49+10.50	50+54.50	Lt.*							144
2-B	49+33.50	50+77.50	Rt.*							144
	Totals			925.00	262.50	150.00	4	4		288

Offsets of Type "D" Concrete Barrier are measured to face of Barrier. (See Section A-A, Sheet 29.)

SCALE
1" = 20'-00"
0 10 20 40

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CULVERT EXTENSION & BARRIER/GUARDRAIL LAYOUT

FHWA REGION	STATE	PROJECT	
5	OHIO		

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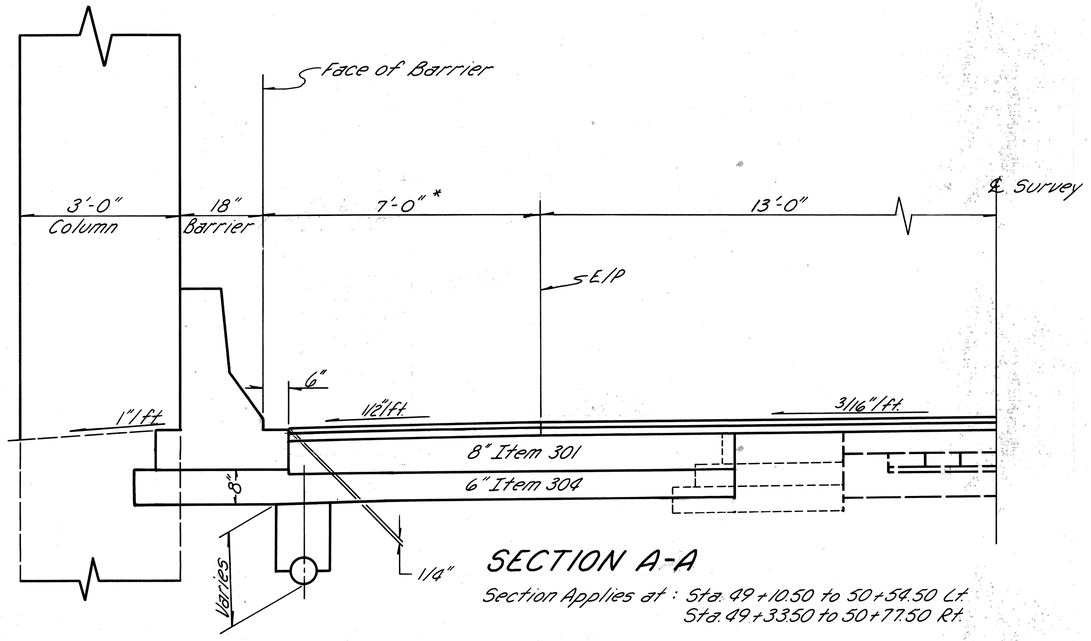
WYANDOT COUNTY
WYA-30-14.47

BARRIER & BRIDGE TERMINAL ASSEMBLY, MODIFIED AS PER PLAN

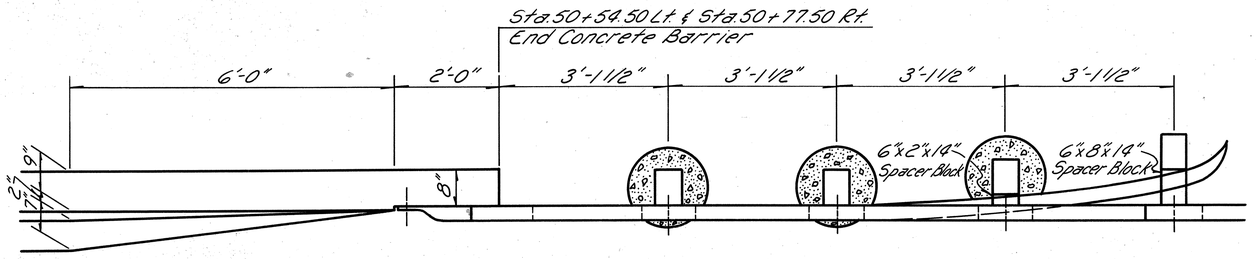


SECTION A-A

Section Applies at : Sta. 49+10.50 to 50+54.50 Lt.
Sta. 49+33.50 to 50+77.50 Rt.

Note: For Locations of Section A-A, See Sheet 28.

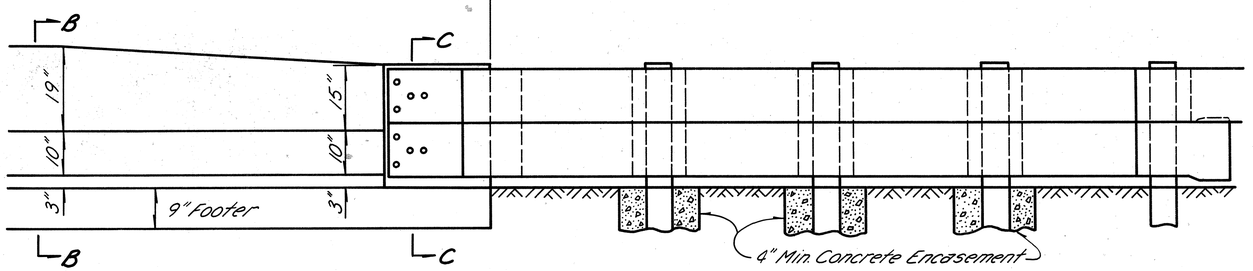
*The Type D, Concrete Barrier shall be placed flush against the 3'-0" columns.



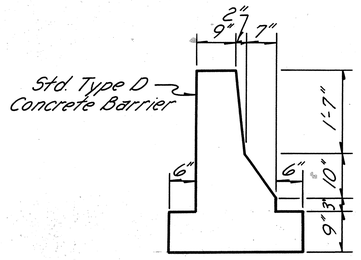
For Details not shown, See Std. Dwg. GR-3.

PLAN VIEW

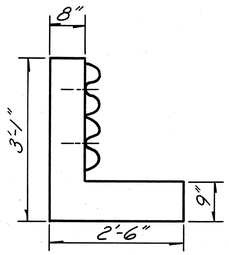
Bridge Terminal Assembly, Modified as per plan



ELEVATION



SECTION B-B



SECTION C-C

Rev. 4/29/87 KMS

APPROACH DETAILS

FHWA REGION	STATE	PROJECT	
5	OHIO		

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WYANDOT COUNTY
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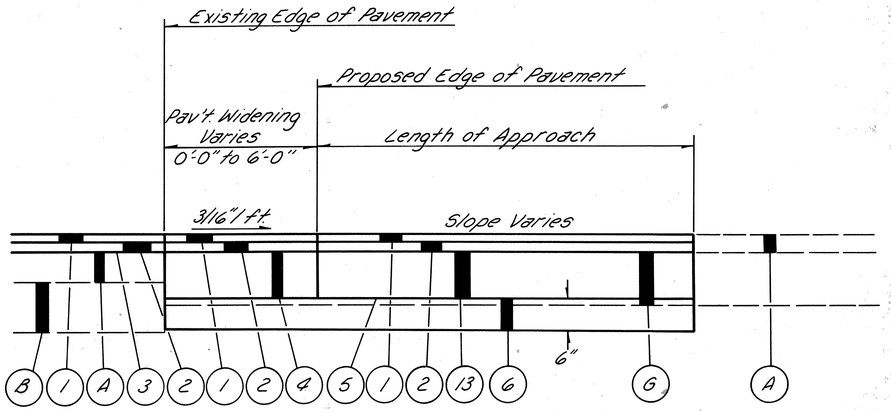
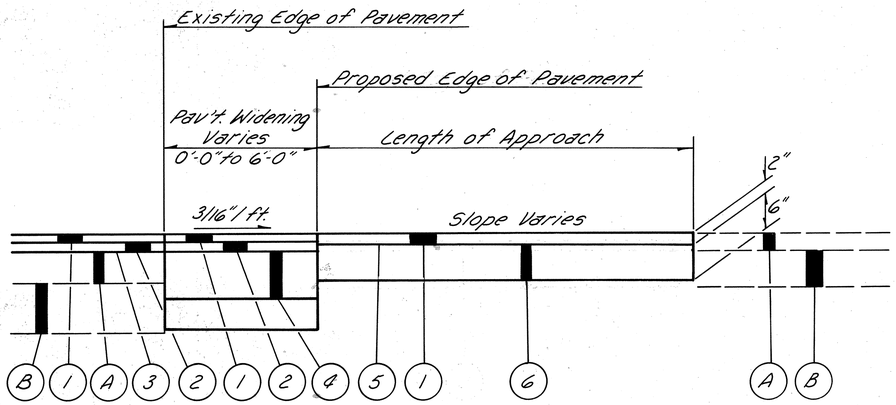
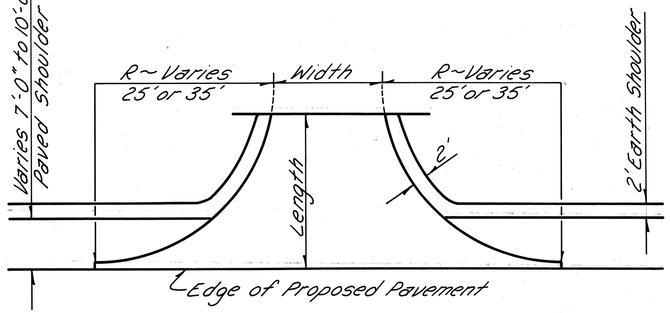


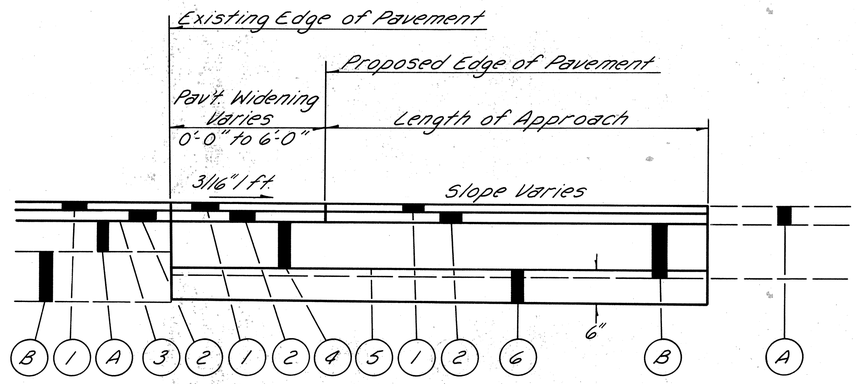
DETAIL "A"
Business Drives with Rigid Pavement



DETAIL "B"
Residential Drives



PLAN VIEW
All Drives



DETAIL "C"
Business Drives with Flexible Pavement

DRIVE DIMENSIONS

℄ Station	Side	Detail "A"	Detail "B"	Detail "C"	Length	Width	Radius	Type
					Ft.	Ft.	Ft.	
30+98	Rt.		X		31	10	25	Res.
32+72	Lt.		X		25	10	25	Res.
37+10	Rt.		X		31	10	25	Res.
37+14	Lt.			X	27	34	35	Bus.
37+75.5	Rt.	X			32	33	35	Bus.
37+98	Lt.			X	27	30	35	Bus.
38+45	Lt.			X	27	40	35	Bus.
38+60	Rt.			X	32	33	35	Bus.
39+36	Lt.			X	27	40	35	Bus.
39+56	Rt.	X			32	33	35	Bus.
55+79	Lt.				25	15	25	Field
57+48	Lt.			X	29	11	25	Res.
57+51	Rt.				10	16	25	Field

Note: For Details not shown see Std. Dwg. BP-6

PROPOSED LEGEND

*(1) 404 ~ 1 1/4" Asphalt Concrete, AC-20
(2) 402 ~ 13/4" Asphalt Concrete, AC-20
(3) 407 ~ Tack Coat and Cover Aggregate
(4) 301 ~ Bituminous Aggregate Base; AC-20, RT-11, or RT-12
(5) 408 ~ Bituminous Prime Coat Applied at a rate of 0.40 gal./sq.yd.
(6) 304 ~ Aggregate Base
(7) 451 ~ 8" Reinforced Concrete Pavement

EXISTING LEGEND

(A) Asphalt Concrete
(B) Base Material
(G) Concrete Pavement

*Detail "B"-Residential Drives - 404 Thickness shall be 2"

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APPROACH DETAILS

Computations By Initials SHK Date 4/16/86	FHWA REGION 5	STATE OHIO	PROJECT	
Computations Checked By Initials Date				
Final Revisions By Initials Date				

WYANDOT COUNTY
WYA-30-14.47

614 WORK ZONE PAVEMENT MARKINGS

GENERAL

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND WHEN NECESSARY, REMOVE WORK ZONE RETROREFLECTIVE PAVEMENT MARKINGS ON EXISTING, RECONSTRUCTED, RESURFACED OR TEMPORARY ROADS WITHIN THE WORK LIMITS, IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS.

THE MARKINGS SHALL BE EVALUATED BY THE ENGINEER IN ACCORDANCE WITH THE THREE PERFORMANCE PARAMETERS CONTAINED IN SUPPLEMENT 1047. THE MARKINGS SHALL BE REPAIRED OR REPLACED WHEN THE NUMERICAL RATING OF A PARAMETER IS (a) SIX OR LOWER FOR DURABILITY, (b) FOUR OR LOWER FOR VISUAL EFFECTIVENESS AND (c) FOUR OR LOWER FOR NIGHT VISIBILITY. THE CONTRACTOR SHALL REPAIR OR REPLACE UNSATISFACTORY MARKINGS IMMEDIATELY AND AT NO ADDITIONAL COST TO THE STATE.

THE CONTRACTOR SHALL, IN ADVANCE OF ANY SECTION OF ROADWAY LACKING OMUTCD FULL PATTERN STANDARD DIMENSION EDGE LINE OR CENTER LINE MARKINGS, ERECT A "NO EDGE LINES" (OW-167-36) SIGN OR "UNMARKED NO PASSING ZONES" (OW-168-36) SIGN OR BOTH AS MAY BE APPROPRIATE. THESE SIGNS SHALL BE IN PLACE PRIOR TO EXPOSING THE ROADWAY TO TRAFFIC. THESE SIGNS SHALL ALSO BE ERECTED ON EACH ENTRANCE RAMP, AT INTERSECTIONS OF THROUGH ROADS TO WARN ENTERING OR TURNING TRAFFIC OF THE CONDITION AND AT LEAST ONCE EVERY TWO MILES ALONG THE ROADWAY. THESE SIGNS SHALL BE REMOVED WHEN THEY NO LONGER APPLY.

TEMPORARY PAVEMENT MARKING MATERIALS

UNLESS OTHERWISE INDICATED ON THE PLANS, TEMPORARY PAVEMENT MARKINGS MAY BE EITHER 621.02 PAINT OR 947.03 TYPE B OR C PREFORMED MATERIAL.

PAINT

PAINTED MARKINGS SHALL BE IN ACCORDANCE WITH 621 EXCEPT THAT (1) PARAGRAPH 621.14 SHALL NOT APPLY, (2) WHERE THE MARKINGS ARE NOT LIABLE TO BE TRACKED, EITHER CONVENTIONAL OR FAST DRY PAINT MAY BE USED FOR 621.02, AND (3) WHEN APPLIED TO NEW ASPHALT PAVEMENT SURFACES OR PLANED ASPHALT PAVEMENT SURFACES, THE SPECIFIED APPLICATION RATE SHALL BE AS FOLLOWS:

WIDTH OF LINE, IN.	GALLONS PER MILE OF LINE				
	4	6	8	12	24
SOLID LINE	24	36	48	72	144
DASHED LINE	6	9			
DOTTED LINE	8	12			

TYPE B AND TYPE C PREFORMED MATERIAL

PREFORMED MATERIAL SHALL COMPLY WITH 947.03 EXCEPT THAT NO PREFORMED MATERIAL CONTAINING METAL SHALL BE PLACED ON ANY SURFACE UNLESS IT WILL BE REMOVED LATER BY THE CONTRACTOR. TEMPORARY PAVEMENT MARKINGS OF 947.03 PREFORMED MATERIAL SHALL BE REMOVED PRIOR TO PLACEMENT OF 621 OR 847 SURFACE COURSE MARKINGS AT THAT LOCATION. PREFORMED MATERIAL SHALL BE APPLIED IN ACCORDANCE WITH 847 EXCEPT AS MODIFIED HEREIN.

PLACEMENT

TEMPORARY MARKINGS SHALL BE COMPLETE AND IN PLACE ON ALL PAVEMENT, INCLUDING RAMPS, PRIOR TO EXPOSING IT TO TRAFFIC. WHEN TEMPORARY MARKINGS CONFLICT WITH THE TRAFFIC PATTERN, THEY SHALL BE REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH 621.134.

LINE PLACEMENT TOLERANCE FOR FINAL SURFACES SHALL BE IN ACCORDANCE WITH 621.052. ON SURFACES OTHER THAN THE FINAL, THE TOLERANCE PERMITTED SHALL BE TWICE THAT IN 621.052.

LAYOUT AND PREMARKING SHALL BE IN ACCORDANCE WITH 621.051.

TEMPORARY MARKING CLASSES

CLASS I MARKINGS

CLASS I MARKINGS SHALL BE APPLIED TO THE FULL DIMENSIONS AS DEFINED IN 621 WITH THE FOLLOWING ADDITIONS OR EXCEPTIONS:

1) TRANSVERSE LINES SHALL BE 8-INCHES IN WIDTH.
2) STOP LINES SHALL BE 12-INCHES IN WIDTH.
3) CROSS WALK LINES SHALL BE 8-INCHES IN WIDTH.

CLASS II MARKINGS

CLASS II MARKINGS (ABBREVIATED) SHALL BE DEFINED AS FOLLOWS:

CENTER LINES SHALL CONSIST OF SINGLE, YELLOW 4-INCH WIDE BY A MINIMUM OF 48-INCH LONG DASHES SPACED AT A MAXIMUM OF 40-FOOT INTERVALS.

LANE LINES SHALL CONSIST OF WHITE 4-INCH WIDE BY A MINIMUM OF 48-INCH LONG DASHES SPACED AT A MAXIMUM OF 40-FOOT INTERVALS.

GORE MARKINGS SHALL BE TWO CONTINUOUS, WHITE 4-INCH LINES PLACED AT THE THEORETICAL GORE OF AN EXIT RAMP OR DIVERGING ROADWAYS.

THE PAINT APPLICATION RATE SHALL BE NOT LESS THAN 2.4 GALLONS PER MILE FOR LANE LINE AND CENTER LINE AND 24 GALLONS PER MILE FOR GORE MARKINGS.

CONFLICTING EXISTING MARKINGS

THE CONTRACTOR SHALL, PRIOR TO PLACING TEMPORARY MARKINGS, REMOVE ALL CONFLICTING EXISTING MARKINGS VISIBLE TO THE TRAVELING PUBLIC DURING DAYLIGHT OR NIGHTTIME HOURS IN ACCORDANCE WITH 621.134. THE COST FOR REMOVAL OF CONFLICTING MARKINGS SHALL BE INCLUDED IN 614 MAINTAINING TRAFFIC UNLESS SPECIFICALLY ITEMIZED.

THE CONTRACTOR SHALL ALSO REMOVE THE PRISMATIC RETRO-REFLECTOR WITHIN ANY RAISED PAVEMENT MARKER (RPM) WHICH IS IN CONFLICT WITH THE TEMPORARY PAVEMENT MARKINGS. WHEN THE TEMPORARY PAVEMENT MARKINGS ARE REMOVED AND THE RPM IS NO LONGER IN CONFLICT, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE RECESSED REFLECTOR ATTACHMENT AREA OF THE CASTING AND INSTALL A NEW PRISMATIC RETRO-REFLECTOR OF THE SAME KIND AND COLOR. THE COST FOR THIS WORK SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS.

INTERIM MARKINGS

WITHIN 21 CALENDAR DAYS AFTER OPENING ANY LENGTH OF PAVEMENT TO TRAFFIC, THE 621 OR 847 PAVEMENT MARKINGS CALLED FOR IN THE PLANS SHALL BE APPLIED. EQUIVALENT 614 CLASS I, PAINT MARKINGS MAY BE USED IN LIEU OF FINAL MARKINGS. IN THIS EVENT, THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIAL NECESSARY TO PLACE AND MAINTAIN 614 CLASS I PAINT MARKINGS AS PART OF THE LUMP SUM BID FOR 614 MAINTAINING TRAFFIC

FOR EACH CALENDAR DAY BEYOND 21 DAYS THAT THIS WORK SHALL REMAIN UNCOMPLETED, THE SUM OF $200 PER CALENDAR DAY WILL BE DEDUCTED FROM ANY MONEY DUE THE CONTRACTOR, NOT AS A PENALTY BUT AS LIQUIDATED DAMAGES.

METHOD OF MEASUREMENT

TEMPORARY PAVEMENT MARKINGS WILL BE MEASURED COMPLETE IN PLACE, BY CLASS AND MATERIAL, IN THE UNITS DESIGNATED. LINE QUANTITIES WILL BE THE LENGTH OF THE COMPLETED STRIPE, INCLUDING GAPS, INTERSECTIONS, AND OTHER SECTIONS OF PAVEMENT NOT NORMALLY MARKED.

TEMPORARY PAVEMENT MARKINGS WILL INCLUDE THE LAYOUT, APPLICATION AND REMOVAL OF THE MARKINGS, WHEN REQUIRED.

NOTE: PERMANENT PAVEMENT MARKINGS AND SIGNING SHALL BE PERFORMED BY OTHERS.

BASIS OF PAYMENT

PAYMENT FOR ACCEPTED QUANTITIES COMPLETE IN PLACE WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR PLACEMENT, MAINTENANCE AND NECESSARY REMOVAL OF THE MARKINGS.

ITEM	QTY.	UNIT	DESCRIPTION
614		MILES	TEMPORARY LANE LINES, CLASS _____, _____ *
614	1.14	MILES	TEMPORARY CENTER LINES, CLASS II, _____ *
614		LIN. FT.	TEMPORARY CHANNELIZING LINES, CLASS I, _____ *
614		MILES	TEMPORARY EDGE LINES, CLASS I, _____ *
614		LIN. FT.	TEMPORARY GORE MARKINGS, CLASS II, _____ *
614		LIN. FT.	TEMPORARY STOP LINES, CLASS I, _____ *
614		LIN. FT.	TEMPORARY CROSSWALK LINES, CLASS I, _____ *
614		EACH	TEMPORARY LANE ARROWS, CLASS I, _____ *
614		EACH	TEMPORARY RAILROAD SYMBOL MARKINGS, CLASS I, _____ *
614		EACH	TEMPORARY WORD "ONLY" ON PAVEMENT, 72-INCH, CLASS I, _____ *
614		LIN. FT.	TEMPORARY TRANSVERSE LINES, CLASS I, _____ *
614		LIN. FT.	TEMPORARY DOTTED LINES, CLASS I, _____ *

*TYPE MATERIAL (621 PAINT, 947.03 TYPE B OR 947.03 TYPE C OR LEFT BLANK TO PERMIT ANY OF THE THREE)

fh4

614 WORK ZONE MARKING SIGNS

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND SUBSEQUENTLY REMOVE WORK ZONE MARKING SIGNS (OW-167 AND OW-168) WITHIN THE WORK LIMITS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS.

THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED BUT GOOD CONDITION PROVIDED THE SIGNS MEET CURRENT DEPARTMENT SPECIFICATIONS. SIGN FACES SHALL BE REFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF 730.19. WORK ZONE MARKING SIGNS SHALL BE PROVIDED WITH SUITABLE YIELDING SUPPORTS OF SUFFICIENT STRENGTH AND STABILITY.

WORK ZONE MARKING SIGNS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGN AND NECESSARY SUPPORTS. ALL OTHER WORK ZONE SIGNS SHALL BE INCLUDED IN 614 MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE, IN PLACE WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTIALS AND EQUIPMENT FOR PLACEMENT, MAINTENANCE AND REMOVAL OF THE SIGNS.

ITEM	UNIT	DESCRIPTION
614	EACH	WORK ZONE MARKING SIGNS

A QUANTITY OF 20 EACH WORK ZONE MARKING SIGNS (12 EACH "NO EDGE LINES" OW-167 AND 8 EACH "UNMARKED NO PASSING ZONES" OW-168) ARE CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

PLACE "NO EDGE LINES" SIGN OW-167-36 AT STA.30+00 FOR EASTBOUND TRAFFIC AND THERE AFTER APPROXIMATELY EVERY 500 FT..

PLACE "NO EDGE LINES" SIGN OW-167-36 AT STA.60+00 FOR WESTBOUND TRAFFIC AND THERE AFTER APPROXIMATELY EVERY 500 FT..

PLACE "UNMARKED NO PASSING ZONE" SIGN OW-168-36 AT STA.30+00, STA.44+00 AND STA.56+00 FOR EASTBOUND TRAFFIC.

PLACE "UNMARKED NO PASSING ZONE" SIGN OW-168-36 AT STA.60+00, STA.53+00 AND STA.41+00 FOR WESTBOUND TRAFFIC.

SIGNING AND PAVEMENT MARKING

(Signing Performed By Others)

FHWA REGION	STATE	PROJECT	
5	OHIO		

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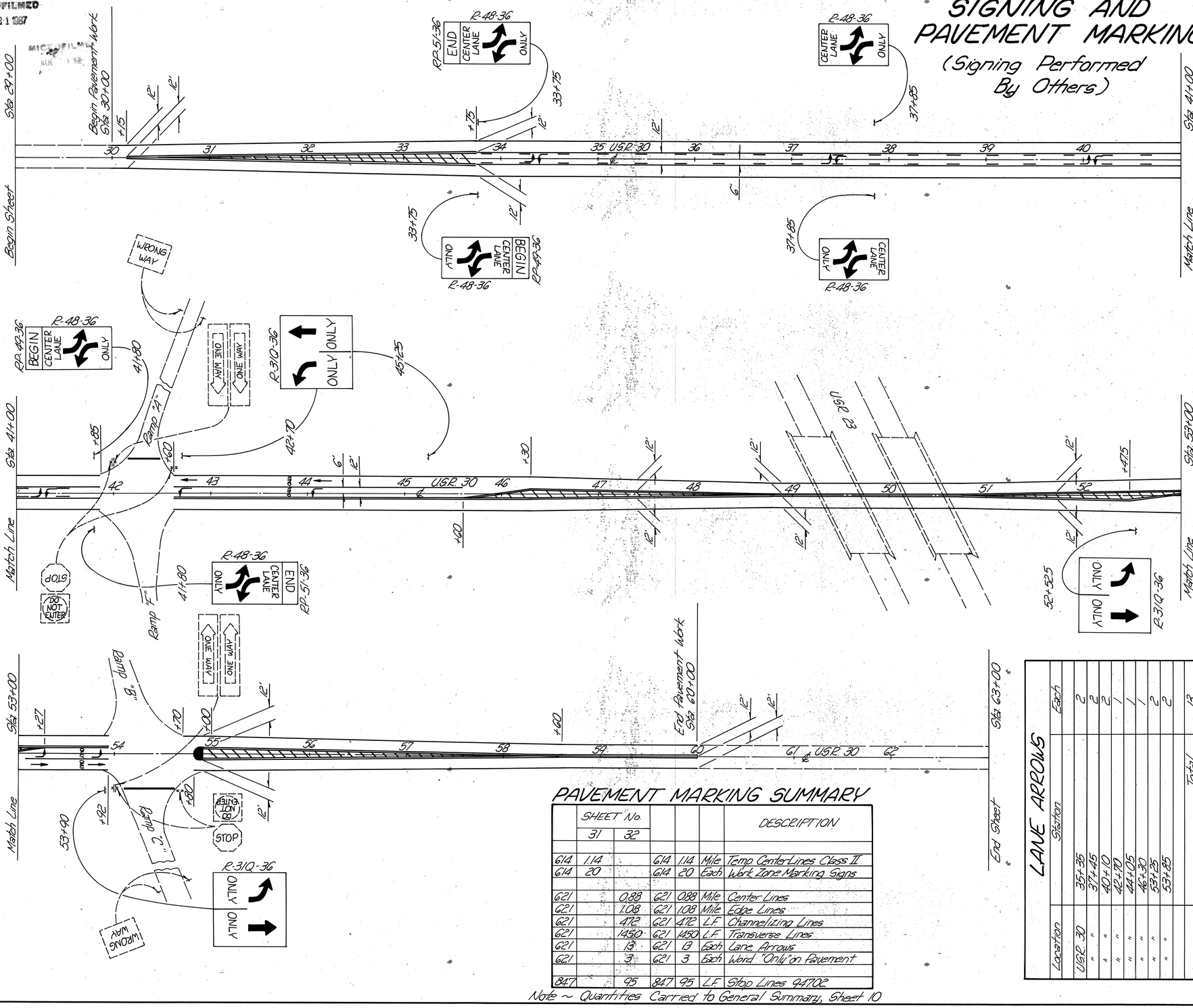
WYANDOT COUNTY
WYA-30-14.47 HES-49(50)



PAVEMENT MARKING SUMMARY

SHEET No. 31	SHEET No. 32				DESCRIPTION
614	1.14		614	1.14	Mile Temp. Center Lines Class II
614	20		614	20	Each Work Zone Marking Signs
621		0.88	621	0.88	Mile Center Lines
621		1.08	621	1.08	Mile Edge Lines
621		472	621	472	L.F. Channelizing Lines
621		1450	621	1450	L.F. Transverse Lines
621		13	621	13	Each Lane Arrows
621		3	621	3	Each Word "Only" on Pavement
847		95	847	95	L.F. Stop Lines 947.02

Note ~ Quantities Carried to General Summary, Sheet 10

LANE ARROWS

Location	Station	Each
U.S.R. 30	35+35	2
" "	37+45	2
" "	40+10	2
" "	42+00	1
" "	44+05	1
" "	46+30	1
" "	53+25	2
" "	53+85	2
	Total	13

CENTER LINES

Location	Station	Lin. Ft. SB*	Lin. Ft. DS**
U.S.R. 30	30+15 to 33+75		720
" "	33+75 to 41+85	1620	
" "	42+60 to 46+45		885
" "	46+45 to 53+05		1327
" "	53+05 to 53+92		87
" "	54+92 to 60+00		508
	Sub-total	1620	3027
	Totals	4647 Lin. Ft.	
	Totals (Miles)	0.88 Mile	

*~SB = Solid, Broken **~DS = Double Solid

4" EDGE LINE MARKINGS

Location	Station	Lin. Ft.
U.S.R. 30	30+00 to 60+00	5684
	Total	5684
	Total (Miles)	1.08

8" CHANNELIZING LINE (WHITE)

Location	Station	Lin. Ft.
U.S.R. 30	42+60 to 46+45	385
" "	53+05 to 53+92	87
	Total	472

24" TRANSVERSE LINES

Location	Station	Lin. Ft.
U.S.R. 30	30+15 to 33+75	300
" "	45+60 to 53+27	808
" "	54+92 to 58+94	342
	Total	1450

847-24" STOP LINE

Location	Station	Lin. Ft.
Ramp "A"	42+10 to 42+50	40
" "C"	54+10 to 54+65	55
	Total	95

WORD "ONLY" ON PAVEMENT

Location	Station	Each
U.S.R. 30	43+80	2
" "	53+60	2
	Total	4

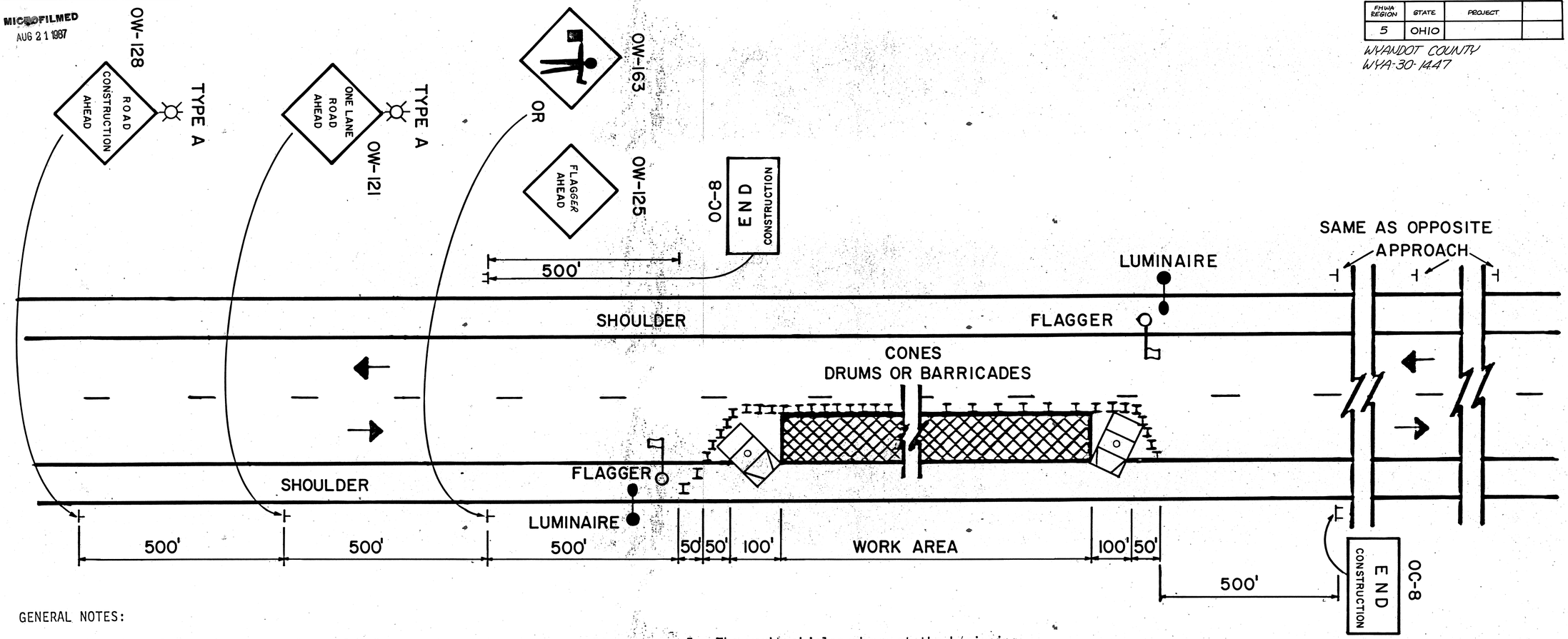
Rev. 4/29/87 KMS

SIGNING & PAVEMENT MARKING

FHWA REGION	STATE	PROJECT	
5	OHIO		

33
34

WYANDOT COUNTY
WYA-30-14.47



GENERAL NOTES:

1. The location of the advance warning signs should be adjusted to provide for adequate sight distance for the existing vertical and horizontal roadway alignment. The distances shown are minimums.

2. Flaggers shall be used to control traffic continuously for as long as a one lane operation is in effect. The flaggers shall communicate with each other at all times as described in the Ohio Manual of Uniform Traffic Control Devices (OMUTCD) in Section 7H: Control of Traffic Through Work Areas.

3. Cones drums or barricades shall be spaced at approximately 50' to 60' center to center for the first 1000 feet of the work area and at a maximum of 100' to 120' center to center for the balance of the work area. Cones, drums or barricades on the advance and return tapers shall be spaced at 10' center to center. Cones may be substituted for barricades or drums for short term lane closures. Cones shall be reflectorized, delineated or internally illuminated for short term night lane closures.

4. Several small work sites close together shall be combined into one work area to make a closure not more than 2000 feet long including tapers. Closures of more than 2000 feet may be approved by the Engineer. The minimum length between closures shall be 2000 feet. Only one side of the road shall be closed in any one work area.

5. The work vehicles shown at the beginning and end of the work area shall be in place and unoccupied whenever workers are in the work area. These work vehicles shall be removed from the pavement whenever workers are not in the work area. Other protective devices may be used in lieu of of the work vehicles shown when approved by the Engineer. The vehicles shall be equipped with a 360° rotating or flashing amber beacon clealy visible in all directions a minimum of a 1/4 mile.

6. The Type A flashing barricade warning lights shown on the "Road Construction Ahead" and the "One Lane Road Ahead" signs are required whenever a night lane closure is necessary.

7. Type C steady burning barricade warning lights shall be erected on drums or barricades for night lane closures. The maximum spacing shall be identical to the channelizing device spacing requirements described in Note 3.

8. Adequate area illumination to clearly identify the flagger station at night for long term operations shall be provided by using 150 watt minimum high pressure sodium luminaires or 250 watt minimum mercury luminaires. Luminaires shall be located adjacent to one flagger station for each direction of traffic as shown above. The mounting height for temporary luminaires shall be a minimum of 27 feet above the pavement and the overhead conductor clearance shall be 20 feet above the pavement.

OHIO DEPARTMENT OF TRANSPORTATION

FLAGGER CLOSING I LANE OF A 2 LANE

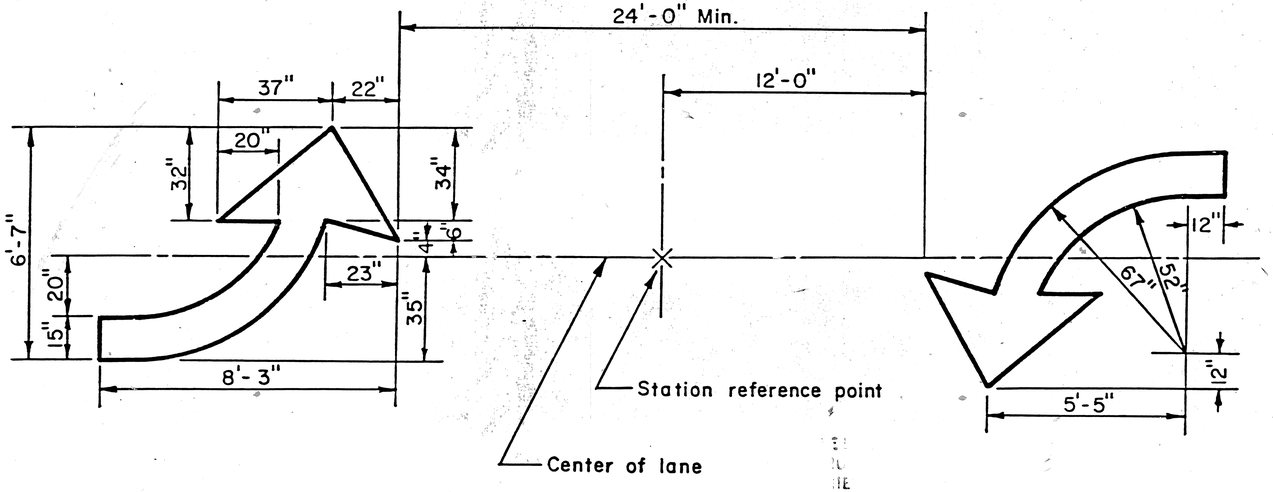
DATE 12/82

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO		

34
34

PLAN NO.

Note :
All dimensions
are typical



TWO-WAY LEFT TURN PAVEMENT ARROW DETAIL

11-84

T2