

D04 - Preventative Maintenance-04/Vari
 040047 PID - 24671
 Dist 4 1/21/2004

PROJECT DESCRIPTION

MICROSURFACING

PROJECT EARTH DISTURBED AREA - N/A (MAINTENANCE PROJECT)
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA - N/A (MAINTENANCE PROJECT)
 NOTICE OF INTENT EARTH DISTURBED AREA - N/A (MAINTENANCE PROJECT)

STATE OF OHIO

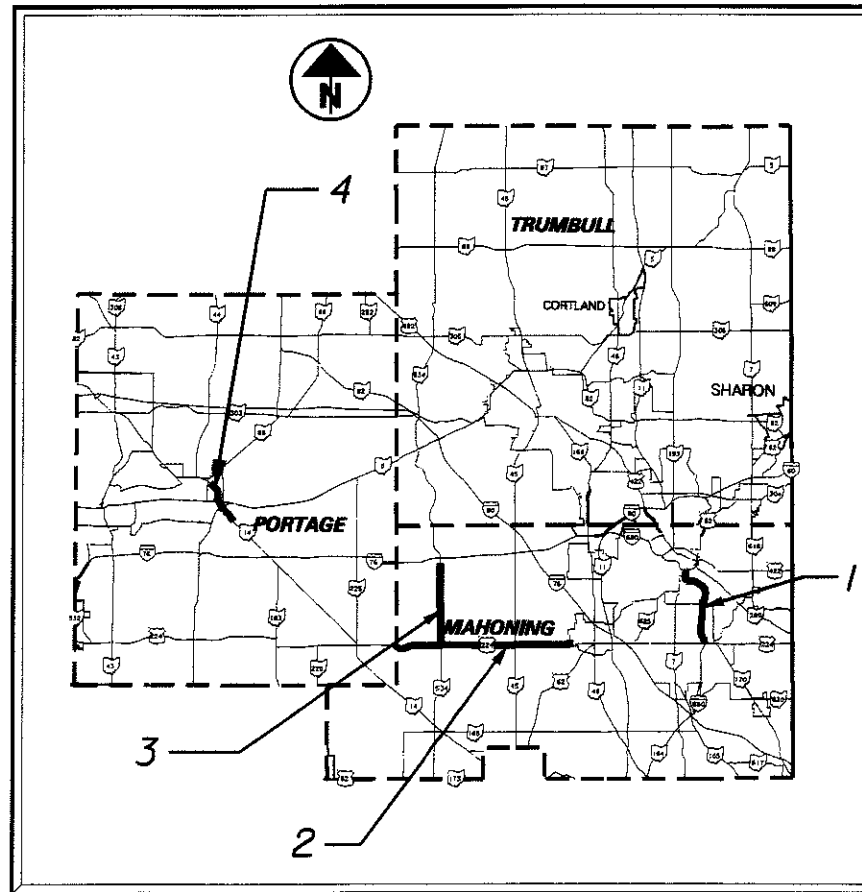
DEPARTMENT OF TRANSPORTATION

D04 PREVENTIVE MAINTENANCE '04

DESIGN EXCEPTIONS - NONE

INDEX OF SHEETS:

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LOCATION MAP

LATITUDE: ° ' " LONGITUDE: ° ' "

PORTION TO BE IMPROVED -----

LOCATION	COUNTY	ROUTE	PROJECT TERMINI		LENGTH MILES
			BEGIN	END	
1	MAH	I 680	6.61	12.08	5.47
2	MAH	US 224	0.00	11.25	11.25
3	MAH	SR 534	8.62	13.80	5.18
4	POR	SR 14	11.33	15.16	3.83
TOTAL					25.73

2002 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.

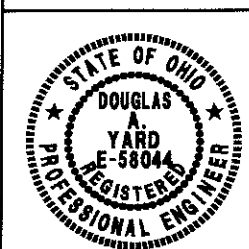
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES

UNDERGROUND UTILITIES
 TWO WORKING DAYS
BEFORE YOU DIG
 CALL 1-800-362-2764 (TOLL FREE)
 OHIO UTILITIES PROTECTION SERVICE
 NON-MEMBERS
 MUST BE CALLED DIRECTLY

PLAN PREPARED BY:



ENGINEERS SEAL:



SIGNED: *Douglas A. Yard*
 DATE: 10/23/03

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	
		TC-41.20	01-19-01	MT-35.10	04-20-01	832	02-12-03
		TC-42.20	04-20-01	MT-95.30	04-19-02	833	02-12-03
RM-4.2	01-18-02	TC-52.10	04-20-01	MT-95.31	04-19-02	881	10-18-02
		TC-52.20	04-20-01	MT-95.32	04-19-02	1082	01-11-00
		TC-65.10	10-19-01	MT-97.10	04-19-02		
		TC-65.11	10-19-01	MT-97.11	04-19-02		
DM-4.3	07-19-02	TC-65.12	10-19-01	MT-99.20M	01-30-95		
DM-4.4	07-19-02	TC-71.10	04-19-02	MT-105.10	10-18-02		
		TC-72.20	01-19-01	MT-105.11	10-18-02		
		TC-73.10	01-19-01				
						SPECIAL PROVISIONS	

APPROVED: *[Signature]*
 DATE: 11-23-03 DISTRICT DEPUTY DIRECTOR

APPROVED: *[Signature]*
 DATE: 11-3-03 DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. E035(875)
 PID NO. 24671
 CONSTRUCTION PROJECT NO.
 RAILROAD INVOLVEMENT
 NORFOLK SOUTHERN CORP.
 D04 PM '04
 33

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CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CONVERSION OF STANDARD CONSTRUCTION DRAWINGS

THE METRIC STANDARD DRAWINGS REFERENCED IN THIS PLAN SHALL BE CONVERTED TO ENGLISH UNITS USING THE SI (METRIC) TO ENGLISH CONVERSION FACTORS PROVIDED IN SECTION 109.011 OF THE 1997 CONSTRUCTION AND MATERIALS SPECIFICATIONS. THE APPENDIX OF ASTM E 380 SHALL BE UTILIZED FOR ANY ADDITIONAL CONVERSION FACTORS REQUIRED. CONVERSIONS SHALL BE APPROPRIATELY PRECISE AND SHALL REFLECT STANDARD INDUSTRY ENGLISH VALUES WHERE SUITABLE.

UTILITIES

THE CONTRACTOR SHALL USE THE FOLLOWING PROCEDURE AT EACH LOCATION WHERE WORK IS PERFORMED, IN ACCORDANCE WITH SECTIONS 105.06 AND 107.17 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS:

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE OHIO UTILITIES PROTECTION SERVICE (UOPS), THE OHIO & GAS PROCEDURES UNDERGROUND PROTECTION SERVICE (OGPUPS), THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEADQUARTERS AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN ALL AREAS.

UOPS 1-800-362-2764 (CONTACT LIMITED BASIS PARTICIPANTS DIRECTLY)

OGPUPS 1-800-925-0988

ODOT 330-297-0801 KEN GREENE EXT. 305

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN ON THE PLANS, BUT CAN BE OBTAINED FROM THE OWNERS OF THE UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.

ENDANGERES SPECIES HABITAT

THIS PROJECT IS WITHIN THE RANGE OF THE FEDERALLY ENDANGERED INDIANA BAT (MYOTIS SODALIS) AND MAY IMPACT SUMMER ROOSTING HABITAT FOR THIS SPECIES. THE SUMMER ROOSTING HABITAT FOR THE INDIANA BAT CONSISTS OF LIVING OR DEAD TREES OR SNAGS WITH EXFOLIATING, PEELING OR LOOSE BARK, SPLIT TRUNKS AND/OR BRANCHES OR CAVITIES. THEREFORE, ANY UNAVOIDABLE CUTTING OF SUCH TREES WILL BE PERFORMED ONLY AFTER SEPTEMBER 15 AND BEFORE APRIL 15.

WETLANDS/STREAMS AVOIDANCE

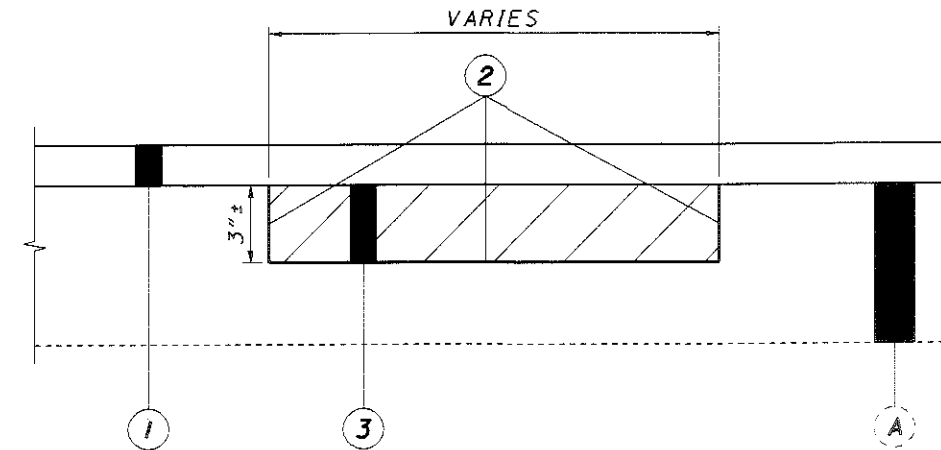
NO EXCAVATION, GRADING, OR FILLING OPERATIONS SHALL BE PERFORMED IN ANY WETLANDS, STREAMS OR OTHER WATERS OF THE UNITED STATES. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE EQUIPMENT AND/OR MATERIALS IN ANY WETLANDS, STREAMS OR OTHER WATERS OF THE UNITED STATES.

PAVEMENT MARKINGS, AS PER PLAN

IN LIEU OF THE REQUIREMENTS OF 642.04, THE APPLICATION RATES OF 614.11.B.3 SHALL BE USED IN PLACING PERMANENT PAVEMENT MARKINGS.

ITEM 642- PAVEMENT MARKINGS, TYPE 1, AS PER PLAN

ALL PAVEMENT MARKINGS (EDGE LINE, LANE LINE AND CENTERLINE), TYPE 1, FOR THIS PROJECT SHALL BE WATERBORNE FAST DRY TRAFFIC PAINTS, CHOSEN FROM NTPEP, 60 SECOND DRY TIME. THE PAINT SHALL BE CHOSEN FROM THE APPROVED LIST.



ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THE ITEM SHALL CONSIST OF REPAIRING EXISTING LOCATIONS EXHIBITING SURFACE DETERIORATION AND PLACING 3.00"± OF ITEM 448 ASPHALT CONCRETE, TYPE 2. THE ASPHALT CONCRETE SHALL BE COMPACTED WITH A TYPE 1 PNEUMATIC TIRE ROLLER AND A STEEL WHEEL ROLLER AS PER 401.11.

PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REPAIR.

THE FOLLOWING ESTIMATED QUANTITIES FOR ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR ARE PROVIDED

- 700 SY FOR LONGITUDINAL JOINT REPAIR USING 18" WIDTH FOR RAMPS ON I-680
- 150 SY MAIN LINE I-680
- 2000 SY US 224
- 250 SY SR 534
- 50 SY SR 14

LEGEND

- ① 421 or 881 MICROSURFACING
- ② 407 TACK COAT
- ③ 251 3"± PARTIAL DEPTH PAVEMENT REPAIR
- Ⓐ EXISTING ASPHALT PAVEMENT

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MAINTENANCE OF TRAFFIC

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS AND RAMPS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

1. A MINIMUM OF ONE TEN FOOT BIDIRECTIONAL LANE SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK, EXCEPT AS STATED BELOW:

1-680 EASTBOUND LANES:

ALL EXISTING LANES SHALL REMAIN OPEN FROM 7:00 AM TO 9:00 AM MONDAY THRU FRIDAY. A MINIMUM OF ONE ELEVEN (11) FOOT LANE SHALL REMAIN OPEN FROM 8:00 PM TO 7:00 AM SEVEN DAYS A WEEK. AT ALL OTHER TIMES TWO ELEVEN (11) FOOT LANES SHALL REMAIN OPEN.

1-680 WESTBOUND LANES:

ALL EXISTING LANES SHALL REMAIN OPEN FROM 4:00 PM TO 6:00 PM MONDAY THRU FRIDAY. A MINIMUM OF ONE ELEVEN (11) FOOT LANE SHALL REMAIN OPEN FROM 8:00 PM TO 7:00 AM SEVEN DAYS A WEEK. AT ALL OTHER TIMES TWO ELEVEN (11) FOOT LANES SHALL REMAIN OPEN.

ALL OTHER ROADWAYS:

ALL EXISTING LANES SHALL REMAIN OPEN FROM 6:00 AM TO 9:00 AM AND FROM 4:00 PM TO 6:00 PM MONDAY THRU FRIDAY.

2. THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 297-0801 EXT 209, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.

3. CONES SHALL NOT BE ACCEPTABLE TRAFFIC CONTROL DEVICES FOR LANE RESTRICTIONS OR LANE REDUCTIONS THAT ARE IN OPERATION ONE-HALF HOUR AFTER SUNSET OR ONE HALF-HOUR BEFORE SUNRISE. ALL NIGHTTIME LANE RESTRICTIONS SHALL REQUIRE DRUMS OR BARRICADES AT A MAXIMUM SPACING OF FIFTY (50) FEET. WEIGHTED CHANNELIZERS MAY BE USED IN ACCORDANCE WITH THE ADDITIONAL NOTE HEREIN.

4. LANE RESTRICTIONS OR LANE REDUCTIONS SHALL NOT BE PERMITTED AFTER NORMAL WORKING HOURS. NORMAL WORKING HOURS SHALL BE THOSE HOURS DURING WHICH THE CONTRACTOR HAS A FULL COMPLEMENT OF EMPLOYEES AND EQUIPMENT ACTIVELY REMOVING AND/OR PLACING PAVEMENT MATERIALS.

5. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND SUBSEQUENTLY REMOVE ALL FLAGS, BARRICADES, SIGNS, SIGN SUPPORTS AND FURNISH AND MAINTAIN ALL FLAGGERS, WATCHERS AND INCIDENTALS RELATED THERETO.

6. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE PERMITTED TO HAVE SUCCESSIVE WORK ZONES UNLESS THE DISTANCE BETWEEN THE DRUMS, BARRICADES OR CONES EXCEEDS TWO (2) MILES RURAL OR ONE (1) MILE URBAN.

7. IN ADDITION TO THE REQUIREMENTS OF 614 WORK ZONE PAVEMENT MARKINGS (614.11), AT THE END OF EACH DAY OF WORK, THE CONTRACTOR SHALL REPLACE (WITH TEMPORARY MARKINGS) ALL LANE, CENTER, STOP OR CHANNELIZING LINES THAT WERE REMOVED OR COVERED DURING THE PAVEMENT REMOVAL OR PLACEMENT OPERATIONS. QUANTITIES FOR SUCH REPLACEMENT ARE CARRIED AS PART OF THE ITEMS LISTED UNDER 614 WORK ZONE PAVEMENT MARKINGS.

8. A QUANTITY OF 5 CU. YDS. (1-680) AND 20 CU. YDS. (ELSEWHERE) OF 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC SHALL BE PROVIDED FOR USE IN MAINTAINING PAVEMENT, SHOULDERS AND OTHER LOCATIONS PRIOR TO RESURFACING, AS DIRECTED BY THE ENGINEER.

9. PRIOR TO OPENING TO TRAFFIC, EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION. ALL TRANSVERSE JOINTS SHALL EXTEND ACROSS THE FULL LANE AND SHOULDER WIDTH AND EACH LANE SHALL BE FREE FROM UNEVEN LONGITUDINAL JOINTS. THE CONTRACTOR SHALL PROVIDE ASPHALT WEDGES FOR TRANSVERSE JOINTS WHEREVER THERE ARE PAVEMENT ELEVATION DIFFERENCES.

10. THE USE OF SHOULDERS TO MAINTAIN TRAFFIC IS PROHIBITED. SHOULD ANY EXISTING OR NEW SHOULDER AREAS BECOME DAMAGED OR DESTROYED DUE TO THE CONTRACTOR'S NEGLIGENCE OR FAILURE TO PROVIDE ADEQUATE SIGNS, BARRICADES, CONES, FLAGGERS OR OTHER TRAFFIC CONTROL DEVICES, THE RESTORATION OF THE SHOULDERS WILL BE AT THE CONTRACTORS EXPENSE, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

11. A QUANTITY OF ITEM 614 WORK ZONE MARKING SIGN HAS BEEN INCLUDED IN THE PLAN. THIS QUANTITY SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING SIGNS: OW-62 [BUMP], OW-71 [TWO-WAY TRAFFIC], OW-167 [NO EDGE LINES], OW-171 [UNEVEN LANES SYMBOL]. THESE QUANTITIES SHALL BE AS PER 614.04.

THE FOLLOWING QUANTITIES SHALL BE USED FOR THE MAINTENANCE OF TRAFFIC ON THIS PROJECT:

1-680		
ITEM 614 WORK ZONE LANE LINE, CLASS 1	45.24 MILE	
ITEM 614 WORK ZONE STOP LINE, CLASS 1	204 FT.	
ITEM 614 WORK ZONE CHANNELIZING LINE, CLASS 1	15,796 FT.	
ITEM 614 WORK ZONE MARKING SIGN	12 EACH	

ELSEWHERE

ITEM 614 WORK ZONE CENTER LINE, CLASS 1	21.93 MILE	
ITEM 614 WORK ZONE LANE LINE, CLASS 1	1.06 MILE	
ITEM 614 WORK ZONE STOP LINE, CLASS 1	194 FT.	
ITEM 614 WORK ZONE CHANNELIZING LINE, CLASS 1	1785 FT.	
ITEM 614 WORK ZONE MARKING SIGN	64 EACH	

WEIGHTED CHANNELIZERS

THE WEIGHTED CHANNELIZER SHALL BE PREDOMINATELY ORANGE IN COLOR AND SHALL BE MADE OF A LIGHTWEIGHT, FLEXIBLE, AND DEFORMABLE MATERIAL. THEY SHALL BE AT LEAST 42 INCHES IN HEIGHT WITH A WEIGHTED BASE. THEY MAY HAVE A "HANDLE" OR LIFTING DEVICE WHICH EXTENDS ABOVE THE 42" MINIMUM HEIGHT.

THE MARKINGS ON THE WEIGHTED CHANNELIZER SHALL BE HORIZONTAL, CIRCUMFERENTIAL, ALTERNATING ORANGE AND WHITE RETROREFLECTIVE STRIPES 6 INCHES WIDE. EACH WEIGHTED CHANNELIZER SHALL HAVE A MINIMUM OF TWO ORANGE AND TWO WHITE STRIPES. ANY NON-RETROREFLECTIVE SPACES BETWEEN THE HORIZONTAL ORANGE AND WHITE STRIPES SHALL NOT EXCEED 2 INCHES WIDE. THE WEIGHTED CHANNELIZER SHALL HAVE A 4-INCH MINIMUM WIDTH, REGARDLESS OF ORIENTATION.

ON FREEWAYS AND MULTILANE HIGHWAYS:

USE OF WEIGHTED CHANNELIZERS ON FREEWAYS AND MULTILANE HIGHWAYS SHALL BE LIMITED TO SHORT-TERM OPERATION, GENERALLY TWELVE HOURS OR LESS, FOR EITHER DAY OR NIGHT. UPON COMPLETION OF WORK WITHIN THE ABOVE NOTED TIME PERIOD, THE WEIGHTED CHANNELIZERS SHALL BE REMOVED. THE WEIGHTED CHANNELIZERS MAY AGAIN BE PLACED ON THE HIGHWAY WHEN THE WORK IS TO RESUME ON THE FOLLOWING DAY OR NIGHT. ANY LANE CLOSURE USING CHANNELIZATION DEVICES, EXPECTED TO REMAIN FOR MORE THAN TWELVE HOURS, SHALL REQUIRE THE USE OF DRUMS OR BARRIERS.

WHEN USED AT NIGHT, WEIGHTED CHANNELIZERS SHALL ONLY BE PLACED IN THE "TANGENT AREA". THE "TANGENT AREA" IS DEFINED AS THE AREA AFTER THE TRANSITION TAPER WHERE THE WORK TAKES PLACE. DRUMS SHALL BE USED IN THE TRANSITION TAPERS FOR NIGHT OPERATIONS.

ON OTHER HIGHWAYS:

THERE ARE NO DURATIONS OF WORK RESTRICTIONS FOR USE OF WEIGHTED CHANNELIZERS ON ALL OTHER TYPES OF HIGHWAYS, DAY OR NIGHT. ON THESE ROADWAYS THE WEIGHTED CHANNELIZER MAY BE USED IN THE TRANSITION TAPERS AS WELL AS IN THE TANGENT AREAS, DAY OR NIGHT.

MAXIMUM SPACING OF THE WEIGHTED CHANNELIZER SHALL BE 40 FEET.

STEPS SHOULD BE TAKEN TO ENSURE THAT THE WEIGHTED CHANNELIZERS WILL NOT BE BLOWN OVER OR DISPLACED BY WIND OR MOVING TRAFFIC. BALLASTS SHOULD NOT PRESENT A HAZARD IF THE WEIGHTED CHANNELIZERS ARE INADVERTENTLY STRUCK, NOR SHOULD THEY AFFECT THE VISIBILITY OF THE WEIGHTED CHANNELIZERS. ALL BALLASTS USED SHOULD BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

CONTRACTOR'S EQUIPMENT - OPERATION AND STORAGE

A QUALIFIED FLAGGER SHALL BE EMPLOYED WHERE THE CONTRACTOR'S EQUIPMENT MUST MERGE WITH THE TRAFFIC STREAM. THE CONTRACTOR'S EQUIPMENT SHALL BE EQUIPPED WITH AT LEAST ONE AMBER FLASHING LIGHT. PAVERS, ROLLERS AND OTHER EQUIPMENT MAY BE PARKED IN AREAS ALONG THE HIGHWAY WHEN PAVING OPERATIONS ARE SCHEDULED TO CONTINUE WITHIN THE NEXT WORKDAY. OTHERWISE, THE EQUIPMENT SHALL BE STORED AT A STORAGE AREA OUTSIDE THE R/W, THE LOCATION OF WHICH SHALL HAVE PRIOR APPROVAL OF THE ENGINEER. WHEN PARKING ALONG THE HIGHWAY, THE EQUIPMENT SHALL BE PLACED AND DELINEATED AS PER 614.03. NO EQUIPMENT SHALL BE PARKED IN THE MEDIAN OF THE HIGHWAY. ADEQUATE BARRICADES AND LIGHTS SHALL BE PLACED ON THE PAVEMENT SIDE OF THE EQUIPMENT TO IDENTIFY THE LIMITS OF THE EQUIPMENT. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT THE APPROVED CONTRACTOR'S STORAGE AREA. NO EQUIPMENT SHALL BE PARKED ON PRIVATE PROPERTY UNLESS PRIOR APPROVAL OF THE OWNER AND THE PROJECT ENGINEER/SUPERVISOR HAS BEEN GRANTED.

TRAFFIC CONTROL INSPECTOR

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER, TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL OR A QUALIFIED REPRESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS SHALL BE EQUIPPED WITH CELLULAR PHONES AND THEIR NAMES AND PHONE NUMBERS SHALL BE GIVEN TO THE PROJECT ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE DESIGNATED INDIVIDUAL MAY HAVE OTHER CONSTRUCTION RELATED DUTIES AS LONG AS IMMEDIATE ATTENTION IS GIVEN TO TRAFFIC CONTROL. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

ITEM 614 - MAINTAINING TRAFFIC

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS	NEW YEARS
MEMORIAL DAY	FOURTH OF JULY
LABOR DAY	THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF THE WEEK	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 12:00N MONDAY
MONDAY	12:00N FRIDAY THROUGH 12:00N TUESDAY
TUESDAY	12:00N MONDAY THROUGH 12:00N WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 12:00N THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 12:00N MONDAY
FRIDAY	12:00N THURSDAY THROUGH 12:00N MONDAY
SATURDAY	12:00N FRIDAY THROUGH 12:00N MONDAY

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH 108.07.

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CALCULATED M.J.H. CHECKED L.L.S. MAINTENANCE OF TRAFFIC GENERAL NOTES D04 PM '04 3/33

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR)

IN ADDITION TO THE REQUIREMENTS OF 614 AND THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), A UNIFORMED LAW ENFORCEMENT OFFICER (AND OFFICIAL PATROL CAR WITH WORKING TOP MOUNTED EMERGENCY FLASHING LIGHTS) SHALL BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR-DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT, OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE.

WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

LAW ENFORCEMENT OFFICERS (LEO'S) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE LEO'S ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE PROJECT ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE.

THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES WITH:

CANFIELD PATROL POST
500 SOUTH BROAD ST
CANFIELD, OH 44406
330-533-6866

IF AFTER CONTACTING THE OHIO HIGHWAY PATROL, IT IS DETERMINED THAT THEY CANNOT SUPPLY THE LEO, THEN AN AUTHORIZED MUNICIPAL OR COUNTY POLICE OFFICER WITH A MARKED AND FLASHER-LIGHT EQUIPPED OFFICIAL POLICE OR PATROL CAR SHALL BE PROVIDED.

LAW ENFORCEMENT OFFICERS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR). THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

- ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR 40 HOURS (I-680)
- ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR 40 HOURS (ELSEWHERE)

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

IF THE CONTRACTOR WISHES TO UTILIZE LEO'S FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THESE PLANS, THEY MAY DO SO AT THEIR OWN EXPENSE. PAYMENT FOR THE EXCESS ABOVE CONTRACT REQUIREMENTS WILL BE INCLUDED UNDER ITEM 614 MAINTAINING TRAFFIC.

COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR SHALL BE ADVISED THAT OTHER PROJECTS MAY BE ONGOING IN AREAS IMMEDIATELY ADJACENT TO AND WITHIN THE PROJECT LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO AS TO CAUSE A MINIMUM OF DELAY OR CONFLICT WITH THE OTHER PROJECT(S). IN ACCORDANCE WITH 105.07, THE CONTRACTOR SHALL ARRANGE WITH THE OTHER CONTRACTORS A MUTUALLY ACCEPTABLE WORK SCHEDULE SUBJECT TO THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL RECEIVE DAILY APPROVAL FROM THE ENGINEER PRIOR TO COMMENCING ANY OPERATIONS. ANY CONFLICT BETWEEN CONTRACTORS INVOLVING WORK SCHEDULES, WORK AREA OR COOPERATION SHALL BE RESOLVED BY THE ENGINEER. COMPENSATION FOR THE ABOVE COOPERATION SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS INCLUDED WITHIN THIS PROJECT.

METHOD OF PAYMENT

PAYMENT FOR THE MAINTENANCE OF TRAFFIC ITEMS, UNLESS SPECIFIED SEPARATELY, SHALL BE AT THE LUMP SUM PRICE BID FOR ITEM-614 MAINTAINING TRAFFIC, WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT AND INCIDENTALS TO COMPLETE THE WORK AS DETAILED IN THE PLANS.

ALTERNATE MAINTENANCE OF TRAFFIC PLANS

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 IN EFFECT UNTIL APPROVAL HAS BEEN GRANTED IN WRITING BY THE ODOT DISTRICT CONSTRUCTION ENGINEER.

INTERIM COMPLETION DATE

ALL WORK ON POR-14 SHALL BE COMPLETED BY JUNE 1, 2004.

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH 108.07.

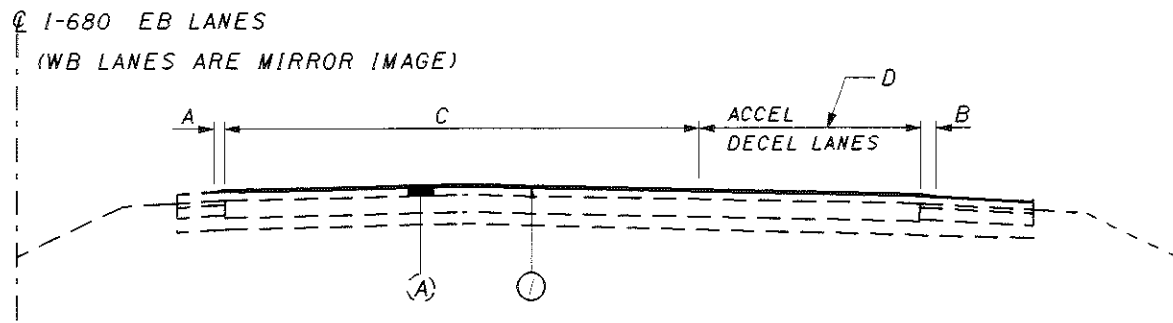
ADVANCE NOTICE TO PAVE

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE DISTRICT CONSTRUCTION ENGINEER A DETAILED SCHEDULE 15 DAYS PRIOR TO THE PLACEMENT OF THE OVERLAY COURSES, ON HOW THEY PROPOSE TO PROSECUTE THE PAVING OPERATIONS. THE DETAILS SHALL SHOW THE ORDER OF PERFORMANCE OF EACH STAGE (START TO FINISH) OF THE WORK INCLUDING THE MAINTENANCE OF TRAFFIC THAT WILL BE USED.

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LEGEND

- ① MICROSURFACING WITH WARRANTY, MULTIPLE COURSE
- Ⓐ EXISTING PAVEMENT



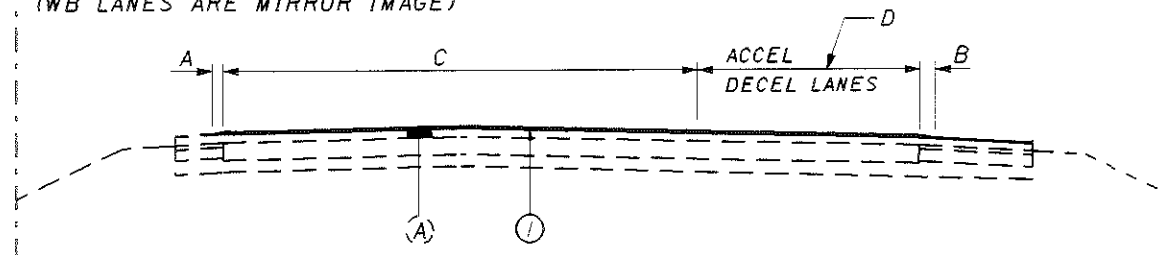
PART	ROUTE	LOG POINT TO LOG POINT	LENGTH		WIDTH (FT.)				SQUARE YARDS	881 MICROSURFACING W/WARRANTY MULTIPLE COURSE SQ.YDS.	421 MICROSURFACING, SURFACE COURSE SQ.YDS.	423 CRACK SEALING, TYPE II OR III POUND	REMARKS
			MILES	LIN.FT.	A	B	C	D					
	680 EB	6.61-6.825	0.215	1135.20	1	1	36		4793.07	4793.07			
	680 EB	6.825-6.845	0.020	105.60	1	1	36	6	516.27	516.27			
	680 EB	6.845-6.87	0.025	132.00	1	1	36	12	733.33	733.33			
	680 EB	6.87-6.895	0.025	132.00									BRIDGE - NO WORK
	680 EB	6.895-6.93	0.035	184.80	1	1	36	12	1026.67	1026.67			
	680 EB	6.93-6.955	0.025	132.00									BRIDGE - NO WORK
	680 EB	6.955-6.98	0.025	132.00	1	1	36	34.5	1063.33	1063.33			
	680 EB	RAMP A											NO WORK
	680 EB	6.98-7.185	0.205	1082.40	1	1	36		4570.13	4570.13			
	680 EB	RAMP C							1165.00		1165.00	60	END @ SOUTH AVE. E. PAV'T EDGE
	680 EB	7.185-7.305	0.120	633.60	1	1	36	26	4505.60	4505.60			
	680 EB	7.305-7.58	0.275	1452.00	1	1	36	12	8066.67	8066.67			
	680 EB	7.58-7.655	0.075	396.00	1	1	36	17	2420.00	2420.00			
	680 EB	7.655-7.70	0.045	237.60	1	1	36	30.5	1808.40	1808.40			
	680 EB	RAMP E							1586.00		1586.00	80	END @ N.W. RAD. RETURN OF CALEDONIA ST.
	680 EB	7.70-7.94	0.240	1267.20	1	1	36		5350.4	5350.4			
	680 EB	7.94-7.975	0.035	184.80									BRIDGE - NO WORK
	680 EB	7.975-8.58	0.605	3194.40	1	1	36		13487.47	13487.47			
	680 EB	RAMP H							1250.00		1250.00	65	END @ SHIRLEY RD. E. PAV'T EDGE
	680 EB	8.58-8.645	0.065	343.20	1	1	36	30.5	2612.13	2612.13			
	680 EB	8.645-8.72	0.075	396.00	1	1	36	16.5	2398.00	2398.00			
	680 EB	8.72-8.98	0.260	1372.80	1	1	36	12	7626.67	7626.67			
	680 EB	8.98-9.045	0.065	343.20	1	1	36	26.5	2459.60	2459.60			
	680 EB	RAMP K							2226.00		2226.00	115	END @ MIDOLTHIAN BLVD. N. PAV'T EDGE
	680 EB	9.045-9.15	0.105	554.40	1	1	36		2340.80	2340.80			
	680 EB	9.15-9.165	0.015	79.20	1	1	36	6	387.20	387.20			
	680 EB	9.165-9.205	0.040	211.20	1	1	36	12	1173.33	1173.33			
	680 EB	9.205-9.23	0.025	132.00	1	1	36	12	733.33	733.33			
TOTALS TO SHEET 9									68072	6227	320		

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LEGEND

- ① MICROSURFACING WITH WARRANTY, MULTIPLE COURSE
- Ⓐ EXISTING PAVEMENT

① I-680 EB LANES
(WB LANES ARE MIRROR IMAGE)



PART	ROUTE	LOG POINT TO LOG POINT	LENGTH		WIDTH (FT.)				SQUARE YARDS	881	421	423	REMARKS
			MILES	LIN.FT.	A	B	C	D		MICROSURFACING W/WARRANTY MULTIPLE COURSE SQ.YDS.	MICROSURFACING, SURFACE COURSE SQ.YDS.	CRACK SEALING, TYPE II OR III POUND	
	680 EB	9.23-9.265	0.035	184.80									BRIDGE - NO WORK
	680 EB	9.265-9.30	0.035	184.80	1	1	36	28	1355.20	1355.20			
	680 EB	RAMP L							1915		1915	95	END @ MIDOLTHIAN BLVD. GORE AREA
	680 EB	9.30-9.41	0.110	580.80	1	1	36		2452.27	2452.27			
	680 EB	9.41-9.465	0.055	290.40	1	1	36		1226.13	1226.13			
	680 EB	9.465-9.49	0.025	132.00	1	1	36		557.33	557.33			
	680 EB	9.49-9.51	0.020	105.60	1	1	36		445.87	445.87			
	680 EB	RAMP M-M							2885		2885	145	END @ MIDOLTHIAN BLVD. S. PAV'T EDGE
	680 EB	9.51-9.735	0.225	1188.00	1	1	36	13	6732	6732			
	680 EB	9.735-10.75	1.015	5359.20	1	1	36		22627.73	22627.73			
	680 EB	10.75-10.77	0.020	105.60									BRIDGE - NO WORK
	680 EB	10.77-11.49	0.720	3801.60	1	1	36		16051.20	16051.20			
	680 EB	11.49-11.51	0.020	105.60	1	1	36	6	516.27	516.27			
	680 EB	11.51-11.66	0.150	792.00	1	1	36	25.55	5592.40	5592.40			
	680 EB	RAMP T											NO WORK
	680 EB	11.66-11.78	0.120	633.60	1	1	36		2675.20	2675.20			
	680 EB	11.78-11.865	0.085	448.80	1	1	36	16	2692.80	2692.80			
	680 EB	11.865-12.08	0.215	1135.20	1	1	24		3279.47	3279.47			
TOTALS TO SHEET 9									66204	4800	240		

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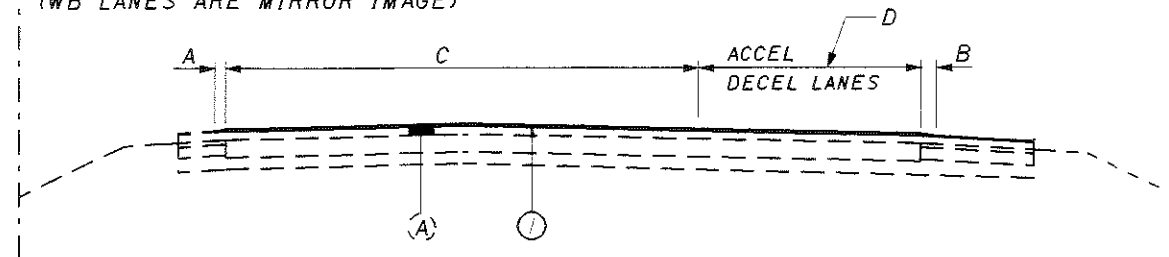
I-680 MICROSURFACING

D04 PM '04

LEGEND

- ① MICROSURFACING WITH WARRANTY, MULTIPLE COURSE
- Ⓐ EXISTING PAVEMENT

① I-680 EB LANES
(WB LANES ARE MIRROR IMAGE)



PART	ROUTE	LOG POINT TO LOG POINT	LENGTH		AVERAGE WIDTH (FT.)				SQUARE YARDS	881	421	423	REMARKS
			MILES	LIN.FT.	A	B	C	D		MICROSURFACING W/WARRANTY MULTIPLE COURSE SQ.YDS.	MICROSURFACING, SURFACE COURSE SQ.YDS.	CRACK SEALING, TYPE II OR III POUND	
	680 WB	6.61-6.87	0.260	1372.80	1	1	36		5796.27	5796.27			
	680 WB	6.87-6.895	0.025	132.00								BRIDGE - NO WORK	
	680 WB	6.895-6.93	0.035	184.80	1	1	36		780.27	780.27			
	680 WB	6.93-6.955	0.025	132.00								BRIDGE - NO WORK	
	680 WB	6.955-7.105	0.150	792.00	1	1	36	22.5	5324.00	5324.00			
	680 WB	RAMP B							1580.00		1580.00	80	END @ SOUTH AVE. GORE AREA
	680 WB	7.105-7.19	0.085	448.80	1	1	36		1894.93	1894.93			
	680 WB	RAMP D							1952.00		1952.00	100	END @ SOUTH AVE. E. PAV'T EDGE
	680 WB	7.19-7.215	0.025	132.00	1	1	36	30	997.33	997.33			
	680 WB	7.215-7.24	0.025	132.00	1	1	36	16	792.00	792.00			
	680 WB	7.24-7.295	0.055	290.40	1	1	36	12	1613.33	1613.33			
	680 WB	7.295-7.315	0.020	105.60	1	1	36	12	586.67	586.67			
	680 WB	7.315-7.37	0.055	290.40	1	1	36	26	2065.07	2065.07			
	680 WB	RAMP F							4840.00		4840.00	245	END @ ALEXANDER ST.S. & POWERSDALE AVE. W. PAV'T EDGES
	680 WB	7.37-7.84	0.470	2481.60	1	1	36		10477.87	10477.87			
	680 WB	7.84-7.94	0.100	528.00	1	1	36	7	2640.00	2640.00			
	680 WB	7.94-7.975	0.035	184.80								BRIDGE - NO WORK	
	680 WB	7.975-8.065	0.090	475.20	1	1	36	29.5	3564.00	3564.00			
	680 WB	RAMP X							960.00		960.00	50	END @ HOMEWOOD AVE. W. PAV'T EDGE
	680 WB	8.065-8.44	0.375	1980.00	1	1	36		8360.00	8360.00			
	680 WB	RAMP G							2140.00		2140.00	110	END @ SHIRLEY RD. E. PAV'T EDGE
	680 WB	8.44-8.48	0.040	211.20	1	1	36	27	1525.33	1525.33			
	680 WB	8.48-8.505	0.025	132.00	1	1	36	13	748.00	748.00			
	680 WB	8.505-8.96	0.455	2402.40	1	1	36	12	13346.67	13346.67			
	680 WB	8.96-9.065	0.105	554.40	1	1	36	28	4065.60	4065.60			
	680 WB	RAMP J							1760.00		1760.00	90	END @ MIDOLTHIAN BLVD. GORE AREA
	680 WB	9.065-9.20	0.135	712.80	1	1	36	8.5	3682.80	3682.80			
	680 WB	9.20-9.23	0.030	158.40	1	1	36	18.5	994.40	994.40			
	680 WB	9.23-9.265	0.035	184.80								BRIDGE - NO WORK	
	680 WB	9.265-9.29	0.025	132.00	1	1	36	36.5	1092.67	1092.67			
TOTALS TO SHEET 9									70347	13232	675		

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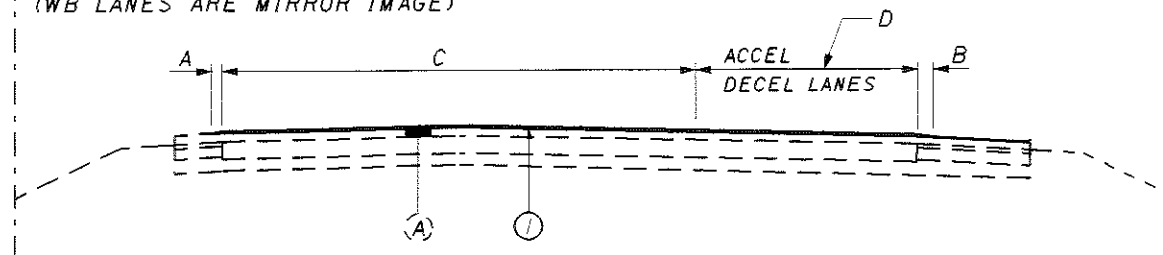
I 680 MICROSURFACING

D04 PM '04

LEGEND

- ① MICROSURFACING WITH WARRANTY, MULTIPLE COURSE
- Ⓐ EXISTING PAVEMENT

① I-680 EB LANES
(WB LANES ARE MIRROR IMAGE)



PART	ROUTE	LOG POINT TO LOG POINT	LENGTH		WIDTH (FT.)				SQUARE YARDS	881	421	423	REMARKS
			MILES	LIN.FT.	A	B	C	D		MICROSURFACING W/WARRANTY MULTIPLE COURSE SQ.YDS.	MICROSURFACING, SURFACE COURSE SQ.YDS.	CRACK SEALING, TYPE II OR III POUND	
	680 WB	RAMP 0							2025.00		2025.00	105	END @ MIDOLTHIAN BLVD. GORE AREA
	680 WB	9.29-9.41	0.120	633.60	1	1	36		2675.20	2675.20			
	680 WB	9.41-9.445	0.035	184.80	1	1	36		780.27	780.27			
	680 WB	RAMP N-N							2275.00		2275.00	115	END @ LEMOYNE AVE. W. PAV'T EDGE
	680 WB	9.445-9.49	0.045	237.60	1	1	36	25.5	1676.40	1676.40			
	680 WB	9.49-9.57	0.080	422.40	1	1	36	12	2346.67	2346.67			
	680 WB	9.57-9.59	0.020	105.60	1	1	36	6	516.27	516.27			
	680 WB	9.59-10.75	1.160	6124.80	1	1	36		25860.27	25860.27			
	680 WB	10.75-10.77	0.020	105.60									BRIDGE - NO WORK
	680 WB	10.77-11.42	0.650	3432.00	1	1	36		14490.67	14490.67			
	680 WB	11.42-11.67	0.250	1320.00	1	1	36	18	8213.33	8213.33			
	680 WB	RAMP W											NO WORK
	680 WB	11.67-11.845	0.175	924.00	1	1	36	6.5	4568.67	4568.67			
	680 WB	11.845-11.87	0.025	132.00	1	1	24		381.33	381.33			
	680 WB	RAMP V											NO WORK
	680 WB	11.87-12.01	0.140	739.20	1	1	24		2135.47	2135.47			
TOTAL THIS SHEET										63645	4300	220	
TOTAL FROM SHEET 6										68072	6227	320	
TOTAL FROM SHEET 7										66204	4800	240	
TOTAL FROM SHEET 8										70347	13232	675	
TOTALS TO GENERAL SUMMARY										268268	28559	1455	

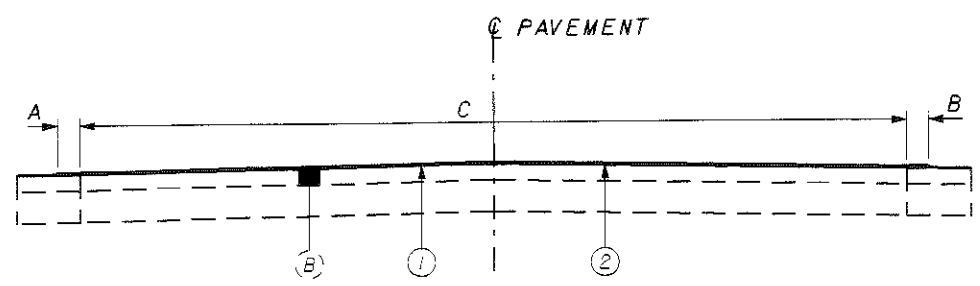
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I-680 MICROSURFACING

D04 PM '04

LEGEND

- ① MICROSURFACING
- ② MICROSURFACING LEVELING COURSE
- ③ EXISTING PAVEMENT



PART	ROUTE	LOG POINT TO LOG POINT	LENGTH		WIDTH (FT.)				SQUARE YARDS	421	421	423	REMARKS
			MILES	LIN.FT.	A	B	C	D		MICROSURFACING SURFACE COURSE	MICROSURFACING LEVELING COURSE	CRACK SEALING TYPE II OR III	
									SQ.YDS.	SQ.YDS.	POUNDS		
	US 224	0.00-0.10	0.100	528.00	1	1	24		1525.33	1525.33			BEGIN @ PORTAGE-MAHONING LINE
	US 224	0.10-0.18	0.080										BRIDGE - NO WORK
	US 224	0.18-1.20	1.020	5385.60	1	1	24		15558.40	15558.40			
	US 224	1.20-4.01	2.810	14836.80	1	1	24		42861.87	42861.87	42861.87		
	US 224	4.01-4.03	0.020	105.60									NORFOLK SOUTHERN RR - NO WORK
	US 224	4.03-7.60	3.570	18849.60	1	1	24		54454.40	54454.40	54454.40		
	US 224	7.60-8.63	1.030	5438.40	1	1	24		15710.93	15710.93			
	US 224	8.63-8.67	0.040										BRIDGE - NO WORK
	US 224	8.67-8.96 BK	0.290	1531.20	1	1	24		4423.47	4423.47			
	US 224	8.98 AH-11.25	2.270	11985.60	1	1	24		34625.07	34625.07			END @ PALMYRA RD. W. PAV'T EDGE
	SR 534	8.62-13.80	5.18	27350.40	1	1	18		60778.67	60778.67	10360		
TOTALS TO GENERAL SUMMARY									229938	97316	10360		

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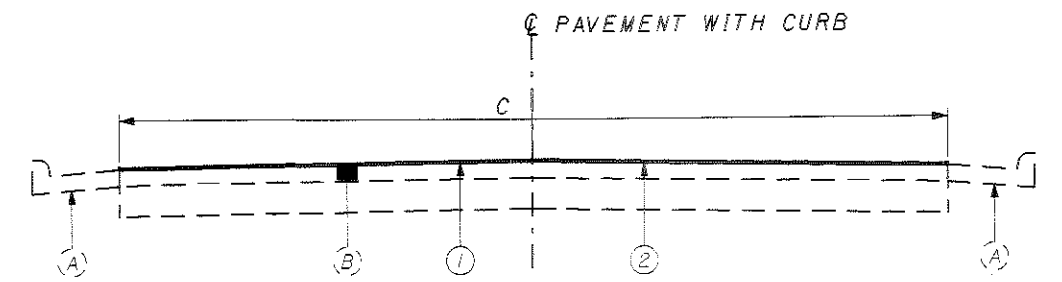
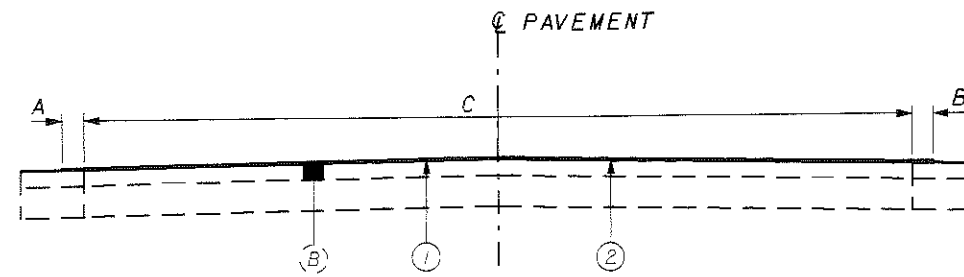
US 224 & SR 534 MICROSURFACING

D04 PM '04

* SOUTHBOUND ONLY
 ** NORTHBOUND ONLY

LEGEND

- ① MICROSURFACING
- ② MICROSURFACING LEVELING COURSE
- Ⓐ EXISTING TYPE 2 CURB
- Ⓑ EXISTING PAVEMENT



P A R T	ROUTE	LOG POINT TO LOG POINT	LENGTH		WIDTH (FT.)				SQUARE YARDS	421	421	421	REMARKS
			MILES	LIN.FT.	A	B	C	D		MICROSURFACING SURFACE COURSE SQ.YDS.	MICROSURFACING LEVELING COURSE SQ.YDS.	MICROSURFACING RUT FILL COURSE TON	
	SR 14	11.33-12.51	1.18	6230.40	1	1	24		17998.93	17998.93	17998.93	BEGIN @ CORP. LINE JUST PAST BRIDGE	
	SR 14	12.51-12.57	0.06	316.80	1	1	28.5		1073.60	1073.60	* 7		
	SR 14	12.57-12.60	0.03	158.40	1	1	42.25		778.80	778.80	* 6		
	SR 14	12.60-12.615	0.015	79.20			51.75		455.40	455.40	* 4		
	SR 14	12.615-12.635	0.02	105.60			52		610.13	610.13	* 5.5		
	SR 14	12.635-12.67	0.035	184.80			54.5		1119.07	1119.07	* 10		
	SR 14	12.67-12.68	0.01	52.80			57		334.40	334.40	* 1.5		
	SR 14	12.68-12.75	0.07	369.60	1	1	40		1724.80	1724.80	** 16.5		
	SR 14	12.75-12.89	0.14	739.20	1	1	36		3121.07	3121.07	** 33		
	SR 14	12.89-12.97	0.08	422.40	1	1	42.75		2100.27	2100.27	** 19		
	SR 14	12.97-12.99	0.02	105.60	1	1	50.5		616.00	616.00	** 5		
	SR 14	12.99-13.00	0.01	52.80	1	1	52.25		300.67	300.67	** 2.5	AREA OF THE ISLAND HAS BEEN DEDUCTED	
	SR 14	13.00-13.05	0.05	264.00	1	1	53		1525.33	1525.33	** 13	AREA OF THE ISLAND HAS BEEN DEDUCTED	
	SR 14	13.05-13.09	0.04	211.20								BRIDGE - NO WORK	
	SR 14	13.09-13.224	0.134	707.52	1	1	53		4087.89	4087.89		AREA OF THE ISLAND HAS BEEN DEDUCTED	
	SR 14	13.224-13.30	0.076	401.28	1	1	40.5		1894.93	1894.93			
	SR 14	13.30-13.335	0.035	184.80	1	1	26		574.93	574.93			
	SR 14	13.335-15.16	1.825	9636.00	1	1	24		27837.33	27837.33		END SOUTH OF CABLE LINE ROAD	
TOTALS TO GENERAL SUMMARY									66154	17999	123		

CALCULATED LLS CHECKED
 SR 14 MICROSURFACING
 D04 PM '04
 33

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RAISED PAVEMENT MARKER, INSTALLATION ONLY

The Department will supply the RPM castings with the yellow/yellow, one-way white, white/red and yellow/red retro-reflectors installed in the castings for Item 621, Raised Pavement Marker, Installation Only. The Contractor shall furnish all other material required to complete this item.

The Contractor will be informed at the pre-construction conference as to the location in Columbus of the Department supplied RPM materials. When specified, additional RPM materials will be stored within the District for use on this project. The Contractor shall pick up Department supplied materials at the specified location(s) for transport to the work site or to the Contractor's storage facility. An authorization for pick-up form is given in Supplemental Specification 1082 dated January 6, 1998. The Contractor shall notify the District and/or the parties listed on the authorization form in writing at least 5 working days prior to pick-up of Department supplied materials. The materials shall be stored without damage or contamination with foreign matter. A deduction in the amount of the actual cost to the Department shall be made for the materials damaged by the Contractor or for castings received by the Contractor which were not installed or were not returned to the Department.

Loading of material supplied by the Department at the recycler's warehouse shall be done in accordance with supplemental specification 1082.

All castings shall be placed the same working day that the RPM slots are cut into the pavement.

RPM REMOVED FOR STORAGE, AS PER PLAN

In addition to the requirements of 202.10, the contractor shall deliver the removed markers to the ODOT District office at 705 Oakwood St, Ravenna, OH 44266. The Contractor shall contact the District [Luke Nagle, 330-297-0801 ext 329] two working days prior to the delivery.

NOTE:
Raised Pavement Markers supplied by the Department shall be the Low Profile Type.

STANDARD CONSTRUCTION DWG.

TC-65.10	10-19-01	TC-65.12	10-19-01
TC-65.11	10-19-01		

RPM REPLACEMENT / REMOVAL

LOCATION				ITEM 202	ITEM 621				REMARKS	
COUNTY	ROUTE	CENTER LINE LOG MILES		RPM REMOVED FOR STORAGE, AS PER PLAN	INSTALLATION ONLY					
		FROM	TO		RPM WITH YELLOW/YELLOW REFLECTOR	RPM WITH WHITE/RED REFLECTOR	RPM WITH ONE-WAY WHITE REFLECTOR	RPM WITH YELLOW/RED REFLECTOR		
MAH	680	6.61	12.03	—			1050		I-680 EB. AND WB. LANE LINES AT 120' SPACING	
MAH	680	7.07	—	—		25		22	RAMPS AND GORE MARKINGS AT SOUTH AVE.	
MAH	680	7.20	—	—		16		24	RAMP AND GORE MARKINGS AT POWERSDALE AVE.	
MAH	680	7.93	—	—		18		9	RAMP AND GORE MARKINGS AT HOMEWOOD AVE.	
MAH	680	8.17	8.35	—		44		35	RAMPS AND GORE MARKINGS AT INDIANOLA AVE./SHIRLEY RD.	
MAH	680	9.23	—	1800		80		82	RAMPS AND GORE MARKINGS AT MIDLOTHIAN BLVD.	
MAH	224	0.00	4.86	—	321				US 224 EB. FROM COUNTY LINE TO CURVE	
MAH	224	4.86	5.06	—	30				CURVE @ 20' SPACING (4.95-4.97)	
MAH	224	5.06	5.10	—	6				TO CURVE @ 40' SPACING	
MAH	224	5.10	7.60	—	165		16		TO JCT SR 45	
MAH	224	7.60	11.25	800	242		32		FROM SR 45 TO PALMYRA RD.	
MAH	534	8.62	11.13	—	166		16		SR 534 NB. TO CURVES (CENTER LINE AND STOP APPROACH)	
MAH	534	11.13	11.33	—	30				CURVE TO CURVE (11.22-11.24 @ 20' SPACING) (CENTER LINE)	
MAH	534	11.33	13.80	380	164		16		FROM CURVE TO MAHONING AVE. (CENTER LINE AND STOP APPROACH)	
POR	14	11.33	12.68	—	98	18			SR 14 EB. TO SR 59 (CENTERLINE AND TURN LANES)	
POR	14	12.68	12.90	—	16	34			FROM SR 59 TO WB. OFF RAMP (CENTER LINE, LANE LINE AND TURN LANE)	
POR	14	12.90	15.16	170	145	24			FROM WB. OFF RAMP TO END WORK (CENTER LINE AND LANE LINE)	
TOTALS TO GENERAL SUMMARY					3150	1383	259	1130	172	

RAISED PAVEMENT MARKER SUB-SUMMARY

D04 PM '04

CENTER LINE

GENERAL SPEC. 640
MATERIAL TYPE - ITEM 646 EPOXY PAVEMENT MARKING

COUNTY	ROUTE	TRU LOG	FROM	TRU LOG	TO	TOTAL MILES	EQUIVALENT SOLID LINE	COMMENTS
MAH	224	0.00	PORTAGE COUNTY LINE	11.24	CANFIELD CORP.	11.24	11.21	
POR	14	11.33	EAST CORP. RAVENNA	15.16	0.19 MILE EAST OF CABLE LINE RD.	3.83	6.78	
TOTAL TO GENERAL SUMMARY						15.07	17.99	

LANE LINE

COUNTY	ROUTE	TRU LOG	FROM	TRU LOG	TO	TOTAL MILES	4" LANE LINE		COMMENTS
							DASHED	SOLID	
POR	14	12.56	JCT. SR 59	13.17	JCT. SR 5 EB RAMPS	1.22			
TOTAL FROM SHEET 13						22.62			
TOTAL TO GENERAL SUMMARY						23.84			

EDGE LINE

COUNTY	ROUTE	TRU LOG	FROM	TRU LOG	TO	WHITE EDGE LINE			YELLOW EDGE LINE			COMMENTS
						TOTAL MILES	HIGH-WAY	RAMP	TOTAL MILES	HIGH-WAY	RAMP	
MAH	224	0.00	PORTAGE COUNTY LINE	11.24	CANFIELD CORP.	22.48	22.48	-				
POR	14	11.33	EAST CORP. RAVENNA	15.16	0.19 MILE EAST OF CABLE LINE RD.	7.66	7.66	-	0.28	0.28	-	
TOTAL FROM SHEET 13						15.15	10.84	4.31	13.19	10.84	2.35	
TOTAL TO GENERAL SUMMARY						45.29	40.98	4.31	13.47	11.12	2.35	

AUXILIARY

COUNTY	ROUTE LOCATION	TRU LOG	8" CHANNEL LINE LIN FT	24" STOP LINE LIN FT	24" TRANSVERSE LINES		12" CROSS-WALK LINES LIN FT	WORD ON PAVEMENT ONLY				LANE ARROWS				SYMBOL MARKINGS		ISLAND MARKINGS SQ FT	DOTTED LINES LIN FT	COMMENTS	
					WHITE LIN FT	YELLOW LIN FT		72"		96"		TURN LEFT EACH	TURN RIGHT EACH	THRU EACH	COMB. EACH	RxR EACH	SCHOOL				
								72"	96"	72"	96"										
					72"	96"		72"	96"	72"	96"	72"	96"								
MAH	US 224 @ BERLIN ELEMENTARY SCHOOL	2.67		24																	
MAH	US 224 @ CONRAIL RAILROAD	4.02																			
MAH	US 224 @ BERLIN WESTERN RESERVE H.S.	4.66																			
MAH	US 224 @ SR 45	7.59		39																	
POR	SR 14 @ SR 59	12.56	1275	55	223	318		10	8	3	3										
TOTAL THIS SHEET			1275	118	223	318		10	8	3	3			2							
TOTAL FROM SHEET 13			7898	102	2439			2	1	2		4									
TOTAL TO GENERAL SUMMARY			9173	220		2980		12	9	5	3	4	2			4					

CALCULATED TJD CHECKED LLS
 PLAN No.
 PAVEMENT MARKING SUB-SUMMARY
 D04 PM '04
 14
 33

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CENTER LINE

GENERAL SPEC. 640
MATERIAL TYPE - ITEM 642 TRAFFIC PAINT, TYPE 1, APP

COUNTY	ROUTE	TRU LOG	FROM	TRU LOG	TO	TOTAL MILES	EQUIVALENT SOLID LINE		COMMENTS
MAH	534	8.62	0.05 MILE NORTH OF U.S. 224	13.80	0.07 MILE NORTH OF MAHONING AVE.	5.18	6.17		
TOTAL TO GENERAL SUMMARY						5.18	6.17		

LANE LINE

COUNTY	ROUTE	TRU LOG	FROM	TRU LOG	TO	TOTAL MILES	4" LANE LINE		COMMENTS
							DASHED	SOLID	
TOTAL TO GENERAL SUMMARY									

EDGE LINE

COUNTY	ROUTE	TRU LOG	FROM	TRU LOG	TO	WHITE EDGE LINE			YELLOW EDGE LINE			COMMENTS
						TOTAL MILES	HIGH-WAY	RAMP	TOTAL MILES	HIGH-WAY	RAMP	
MAH	534	8.62	0.05 MILE NORTH OF U.S. 224	13.80	0.07 MILE NORTH OF MAHONING AVE.	10.36	10.36	-				
TOTAL TO GENERAL SUMMARY						10.36	10.36	-				

AUXILIARY

COUNTY	ROUTE LOCATION	TRU LOG	8" CHANNEL LINE	24" STOP LINE	24" TRANSVERSE LINES		12" CROSS-WALK LINES	WORD ON PAVEMENT		LANE ARROWS				SYMBOL MARKINGS		ISLAND MARKINGS	DOTTED LINES	AUXILIARY MARKINGS: ITEM 642 TRAFFIC PAINT, TYPE 2, APP	COMMENTS	
					WHITE	YELLOW		ONLY		TURN LEFT	TURN RIGHT	THRU	COMB.	RxR	SCHOOL					
								72"	96"						72"					96"
MAH	SR 534 @ MAHONING AVE.	13.73		52																
TOTAL TO GENERAL SUMMARY				52																

CALCULATED TJD CHECKED LLS
 PLAN NO.
 PAVEMENT MARKING SUB-SUMMARY
 D04 PM '04
 15/33

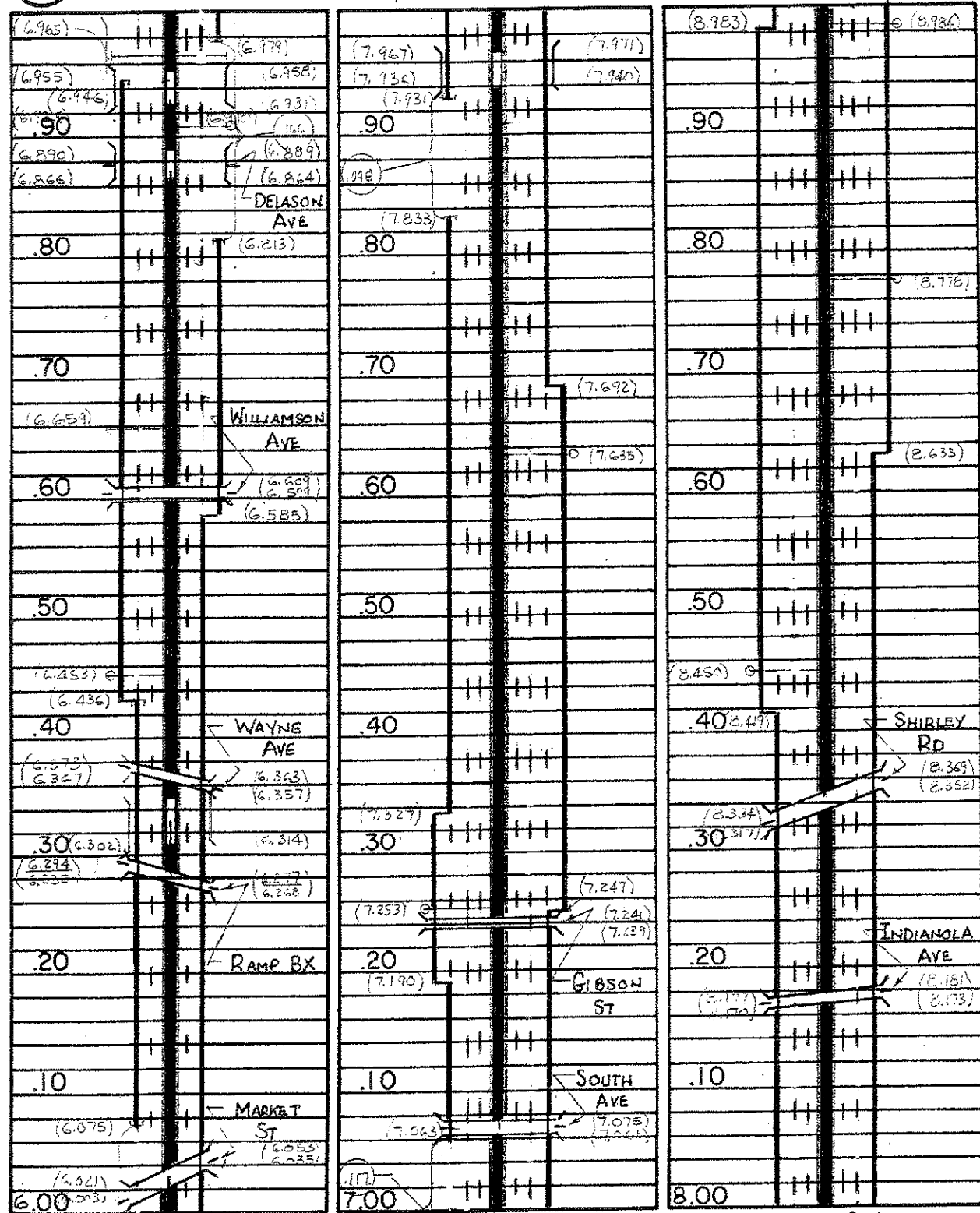
I:\Projects\2467\LD04PM04\24671t.dgn 22-OCT-2003 9:52AM ism11h

DISTRICT 4



COUNTY MAHONING ROUTE 680

Total This Route = Yellow: Solid _____, Yellow: Dash _____, White: Dash _____
Equivalent Yellow _____



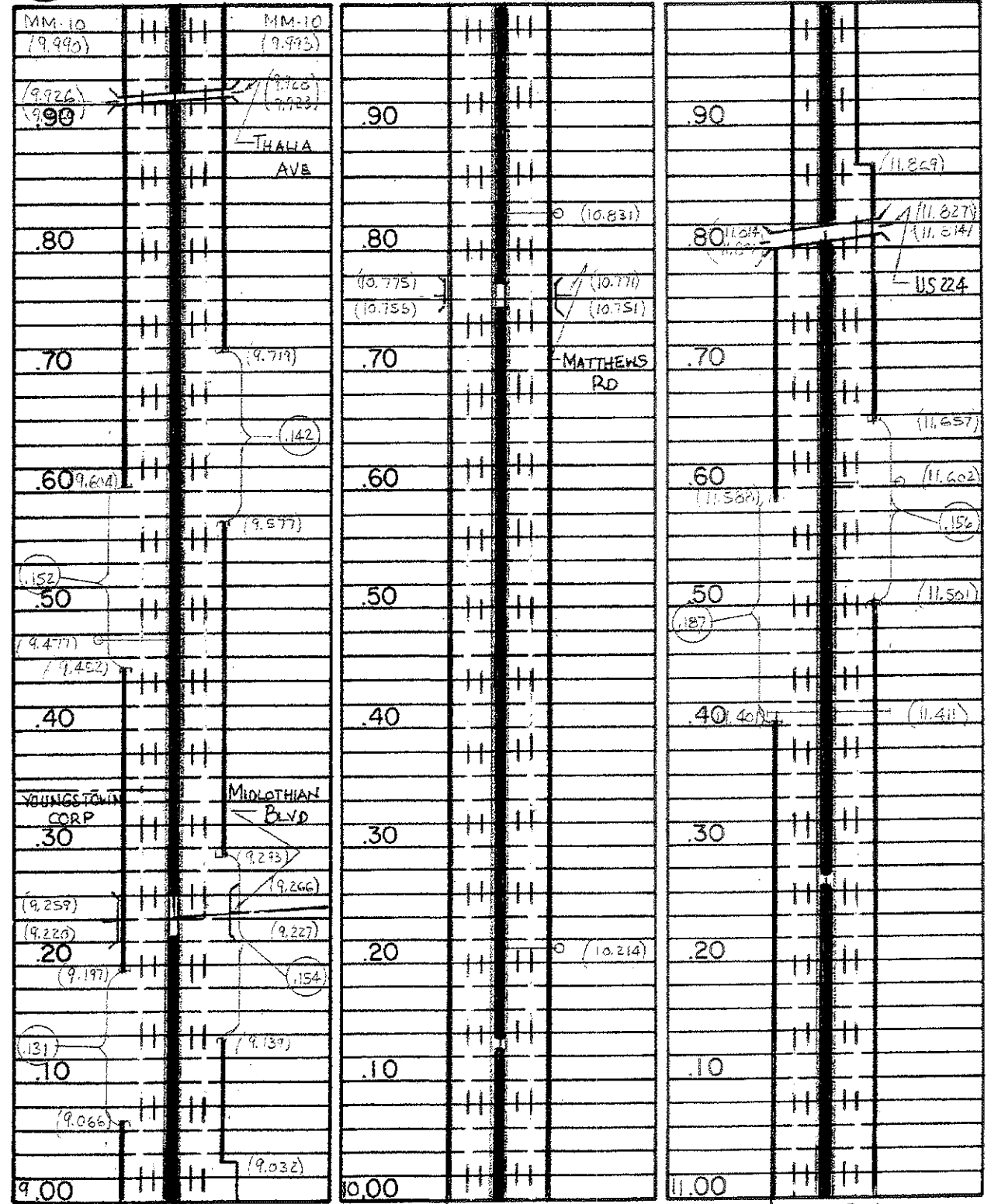
Yellow: Solid _____ Dash _____ Yellow: Solid _____ Dash _____ Yellow: Solid _____ Dash _____
TOTAL YELLOW THIS PAGE: SOLID _____, DASH _____, EQUIVALENT LINE _____

DISTRICT 4



COUNTY MAHONING ROUTE 680

Total This Route = Yellow: Solid _____, Yellow: Dash _____, White: Dash _____
Equivalent Yellow _____



Yellow: Solid _____ Dash _____ Yellow: Solid _____ Dash _____ Yellow: Solid _____ Dash _____
TOTAL YELLOW THIS PAGE: SOLID _____, DASH _____, EQUIVALENT LINE _____

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PAVEMENT MARKINGS

D04 PM '04



DISTRICT 4

COUNTY MAHONING ROUTE 680

Total This Route = Yellow: Solid _____, Yellow: Dash _____, White: Dash _____
Equivalent Yellow _____

MM-13 (12.993)	MM-13 (12.995)	MM-14 13.992	MM-14 (13.921)	MM-14 (14.978)
.90		.90		.90
.80		.80		.80
.70		.70		.70
.60		.60		.60
.50		.50		.50
.40		.40		.40
.30		.30		.30
.20		.20		.20
.10		.10		.10
12.00 (12.004)		13.00		14.00 (14.011)

Yellow: Solid _____ Dash _____ Yellow: Solid _____ Dash _____ Yellow: Solid _____ Dash _____

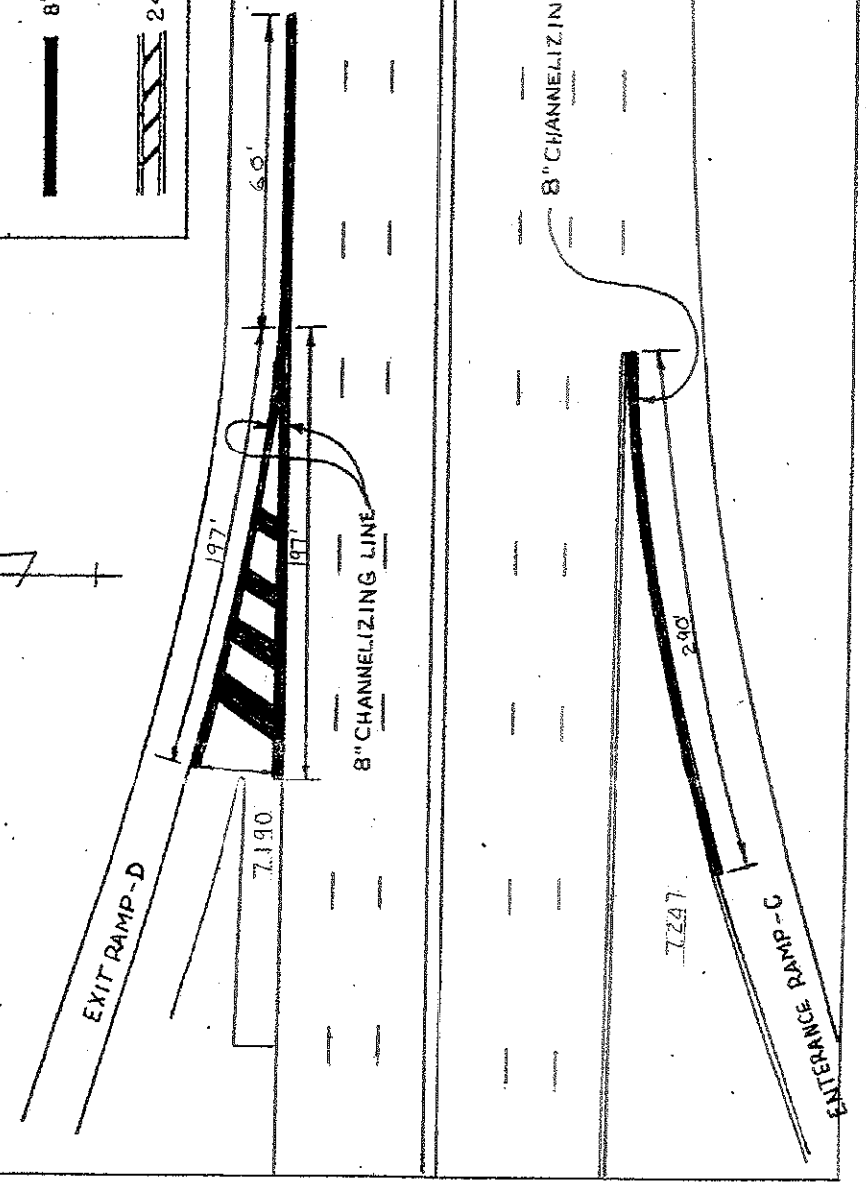
TOTAL YELLOW THIS PAGE: SOLID _____, DASH _____, EQUIVALENT LINE _____

AUXILIARY PAVEMENT MARKING

COUNTY MAHONING
LOCATION I-680 & SOUTH AVE
PAVEMENT SURFACE TYPE EXIT-7

INTERSECTION TOTALS

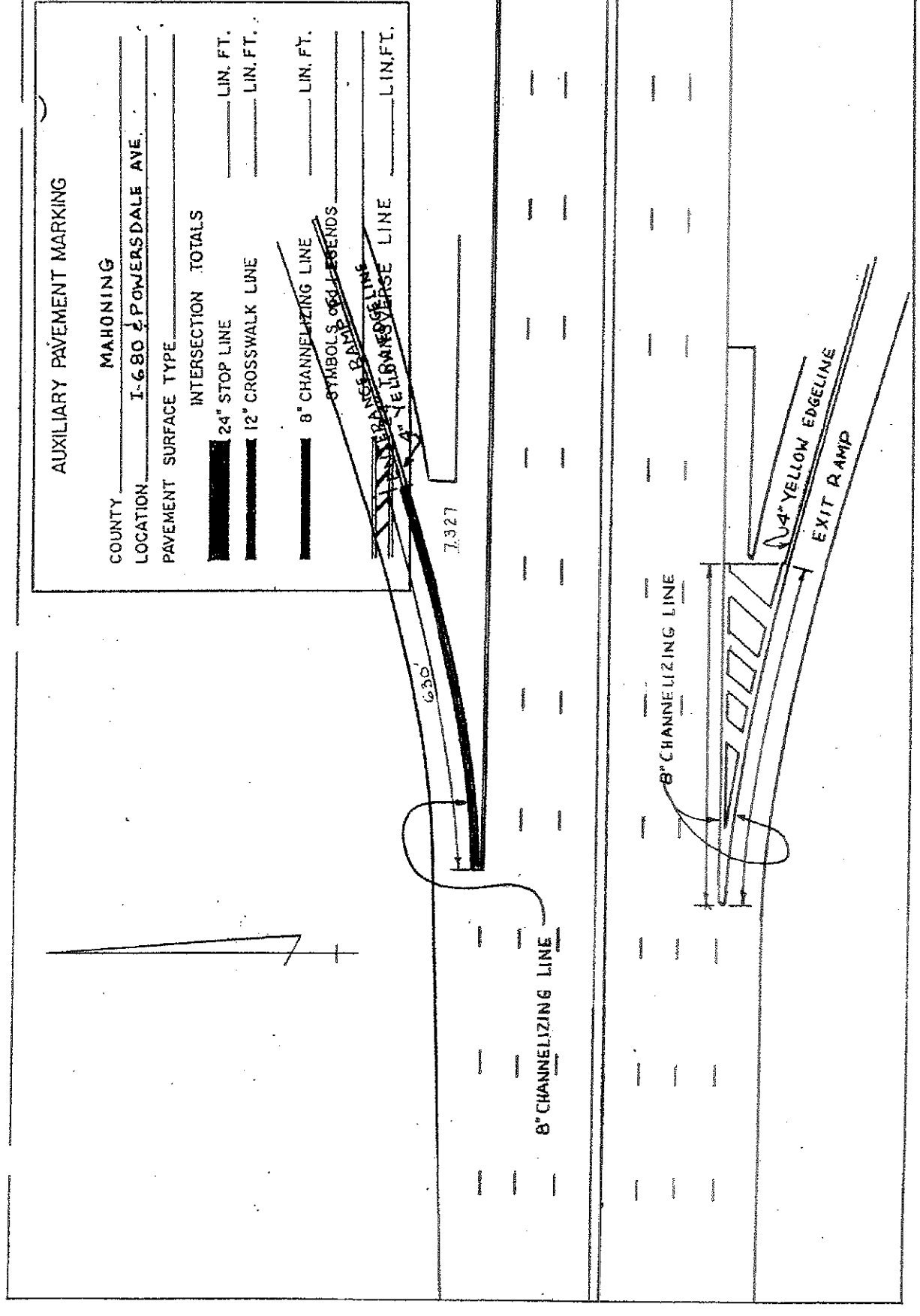
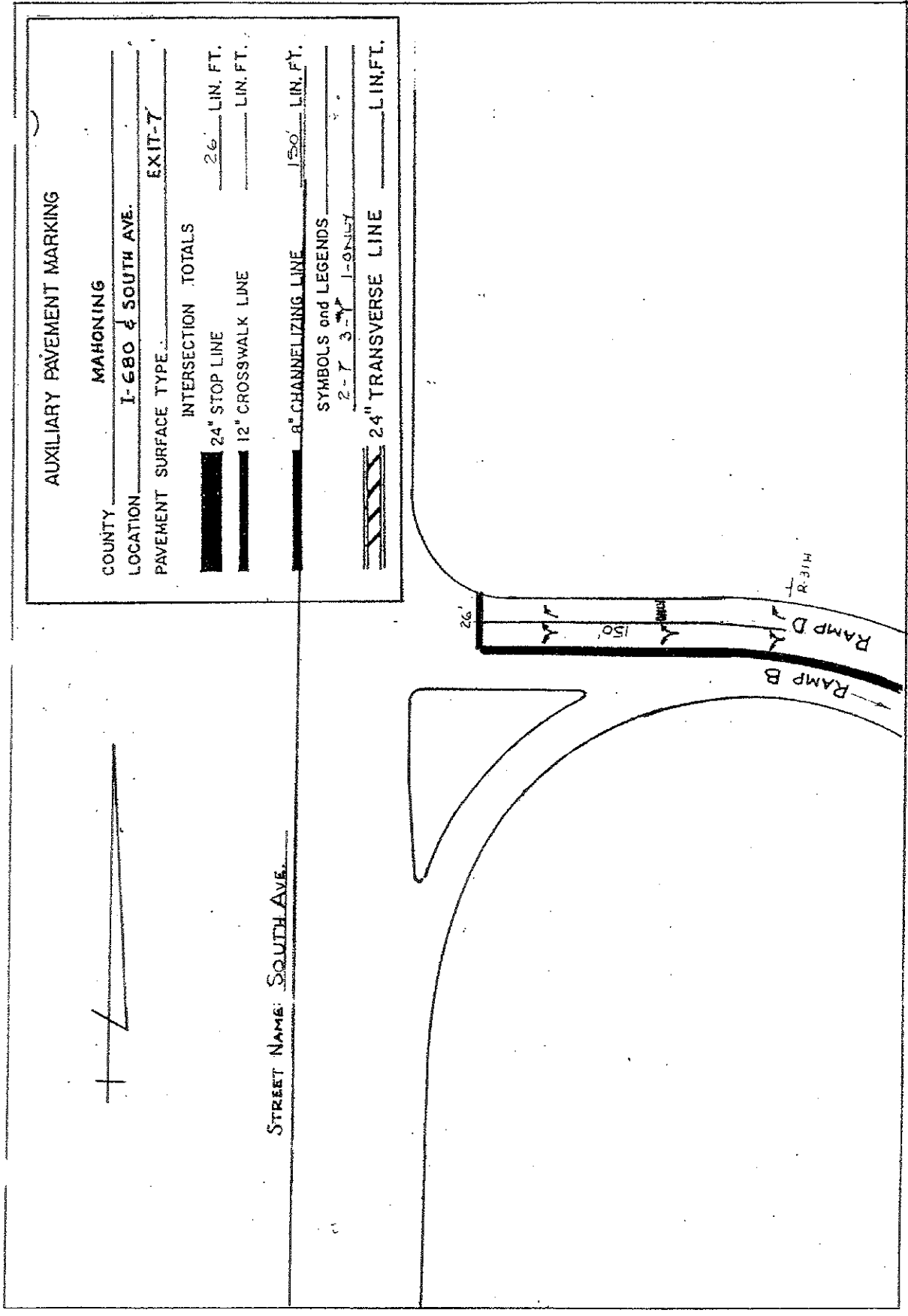
- 24" STOP LINE LIN. FT. _____
- 12" CROSSWALK LINE LIN. FT. _____
- 8" CHANNELIZING LINE LIN. FT. _____
- SYMBOLS and LEGENDS _____
- 24" TRANSVERSE LINE LIN. FT. _____

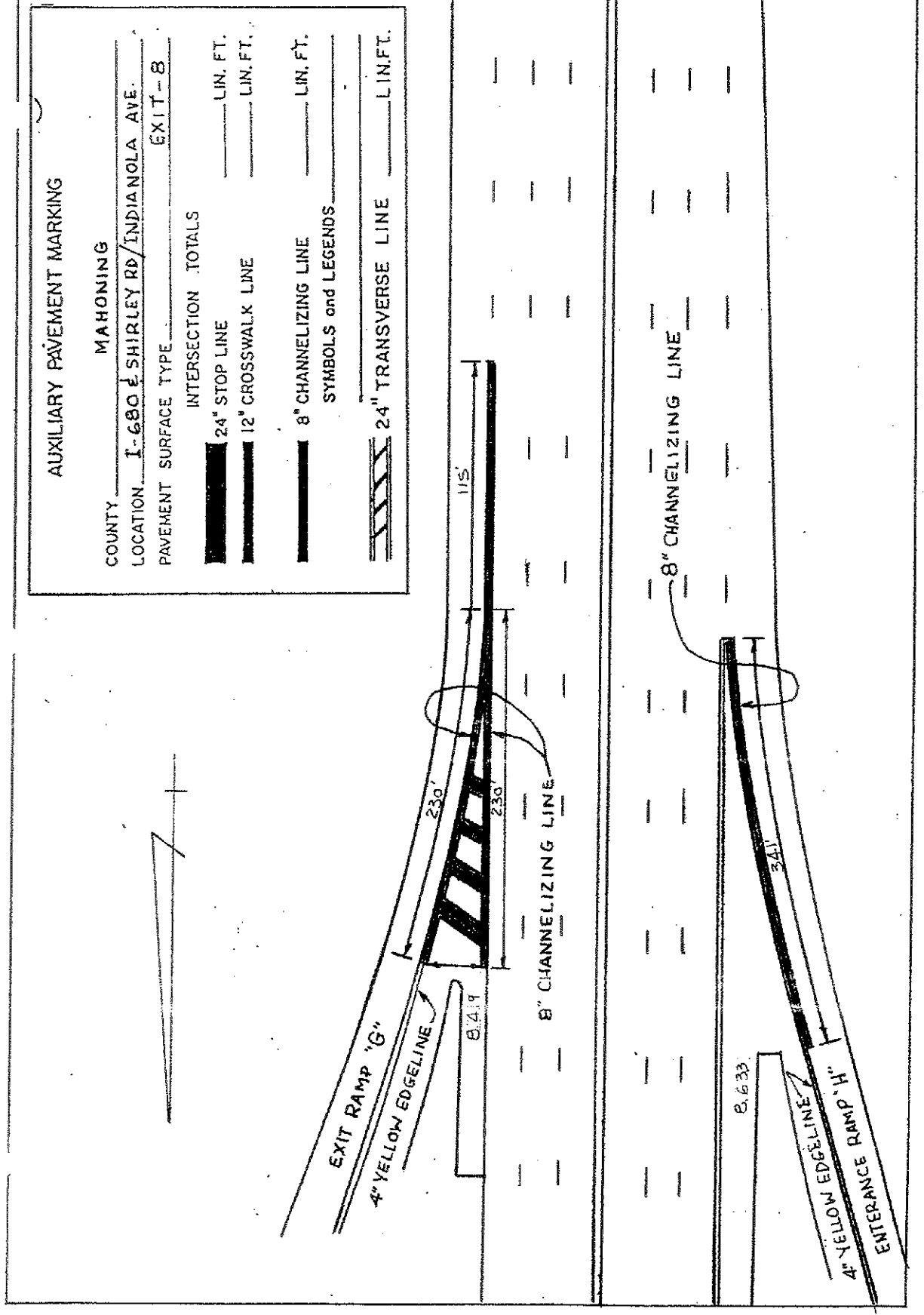


CALCULATED
CHECKED

PAVEMENT MARKINGS

D04 PM '04





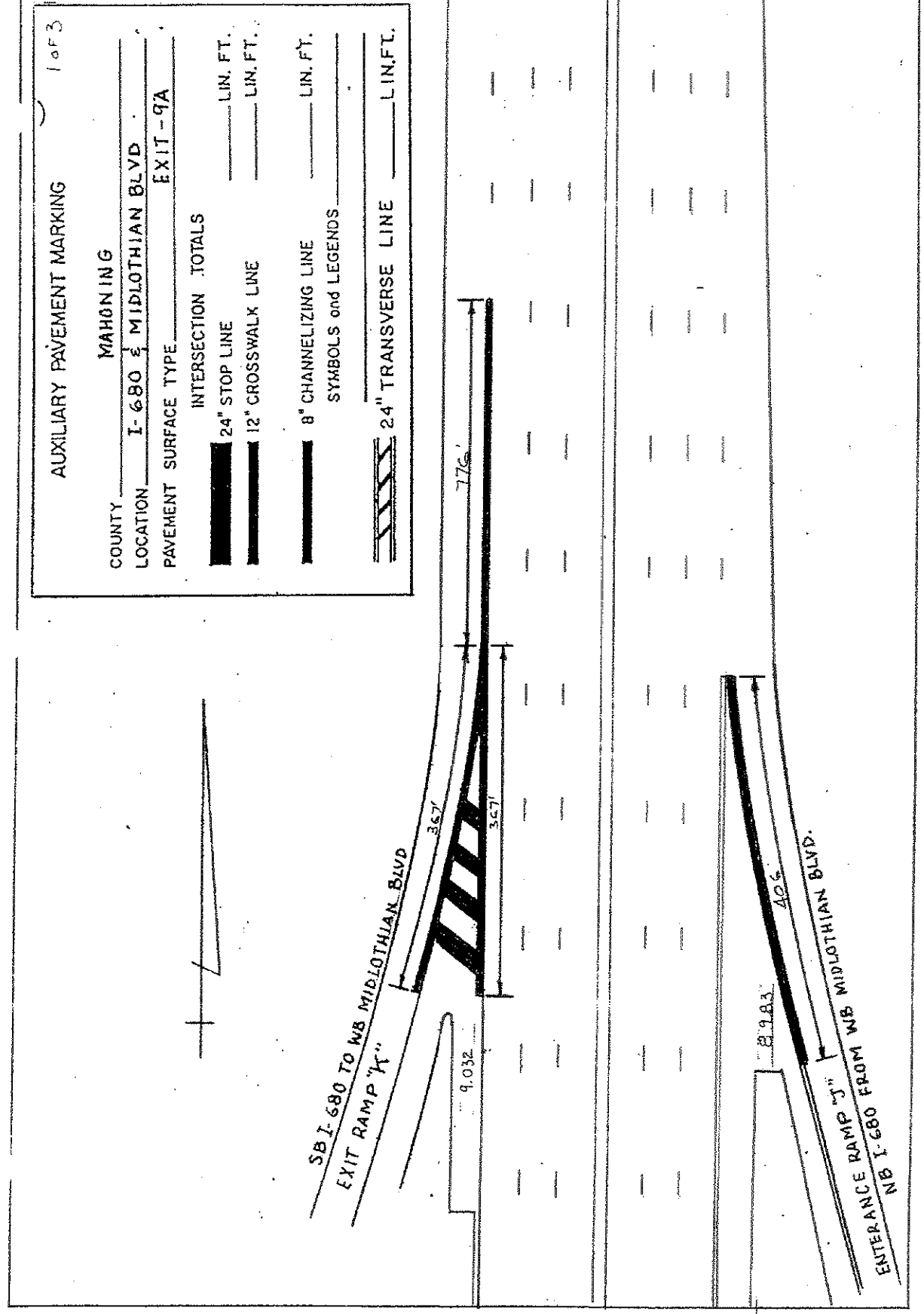
AUXILIARY PAVEMENT MARKING

COUNTY MAHONING
 LOCATION I-680 & SHIRLEY RD/ INDIANOLA AVE.
 PAVEMENT SURFACE TYPE EXIT-8

INTERSECTION TOTALS
 24" STOP LINE _____ LIN. FT.
 12" CROSSWALK LINE _____ LIN. FT.

8" CHANNELIZING LINE _____ LIN. FT.
 SYMBOLS and LEGENDS _____

24" TRANSVERSE LINE _____ LIN. FT.



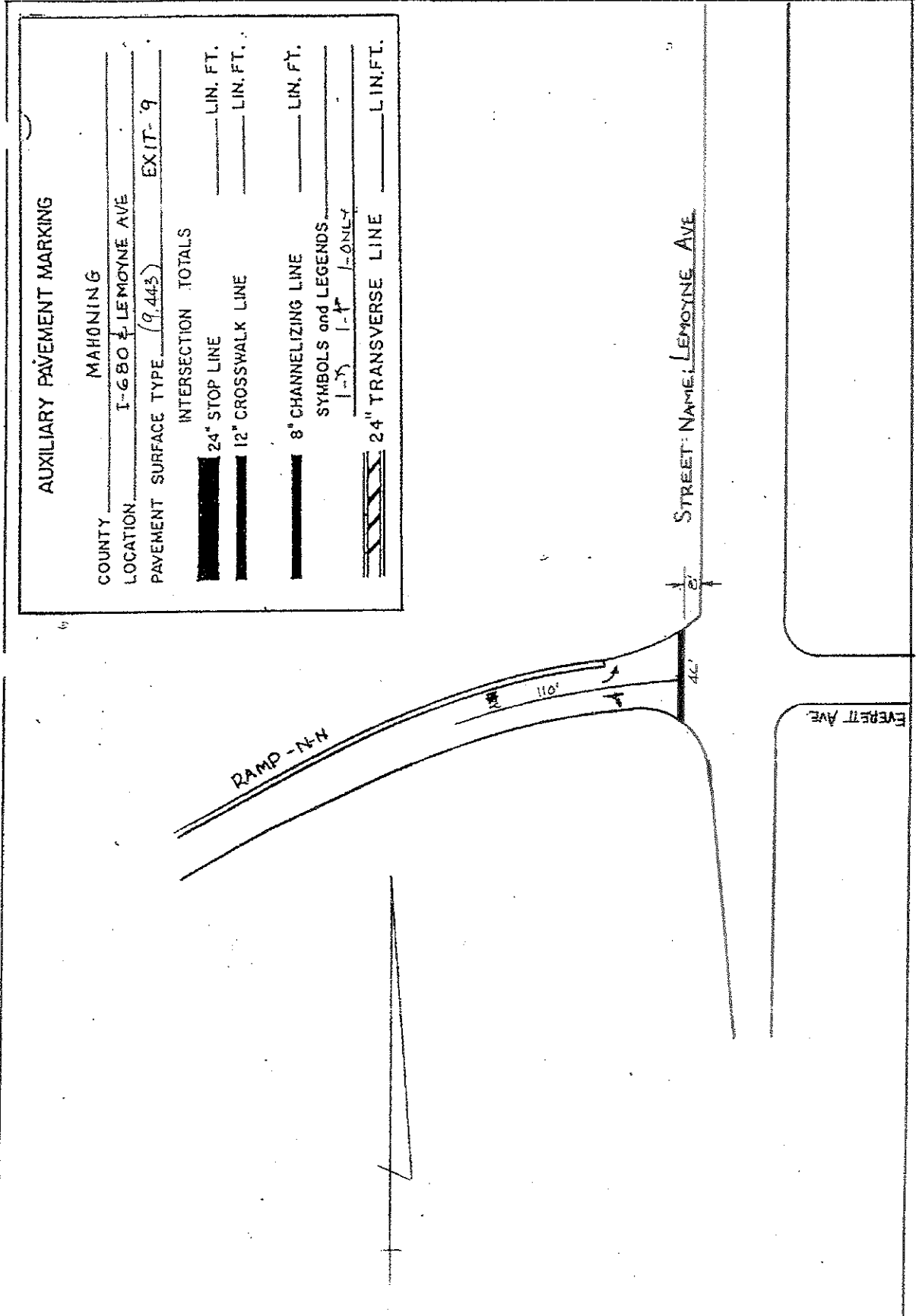
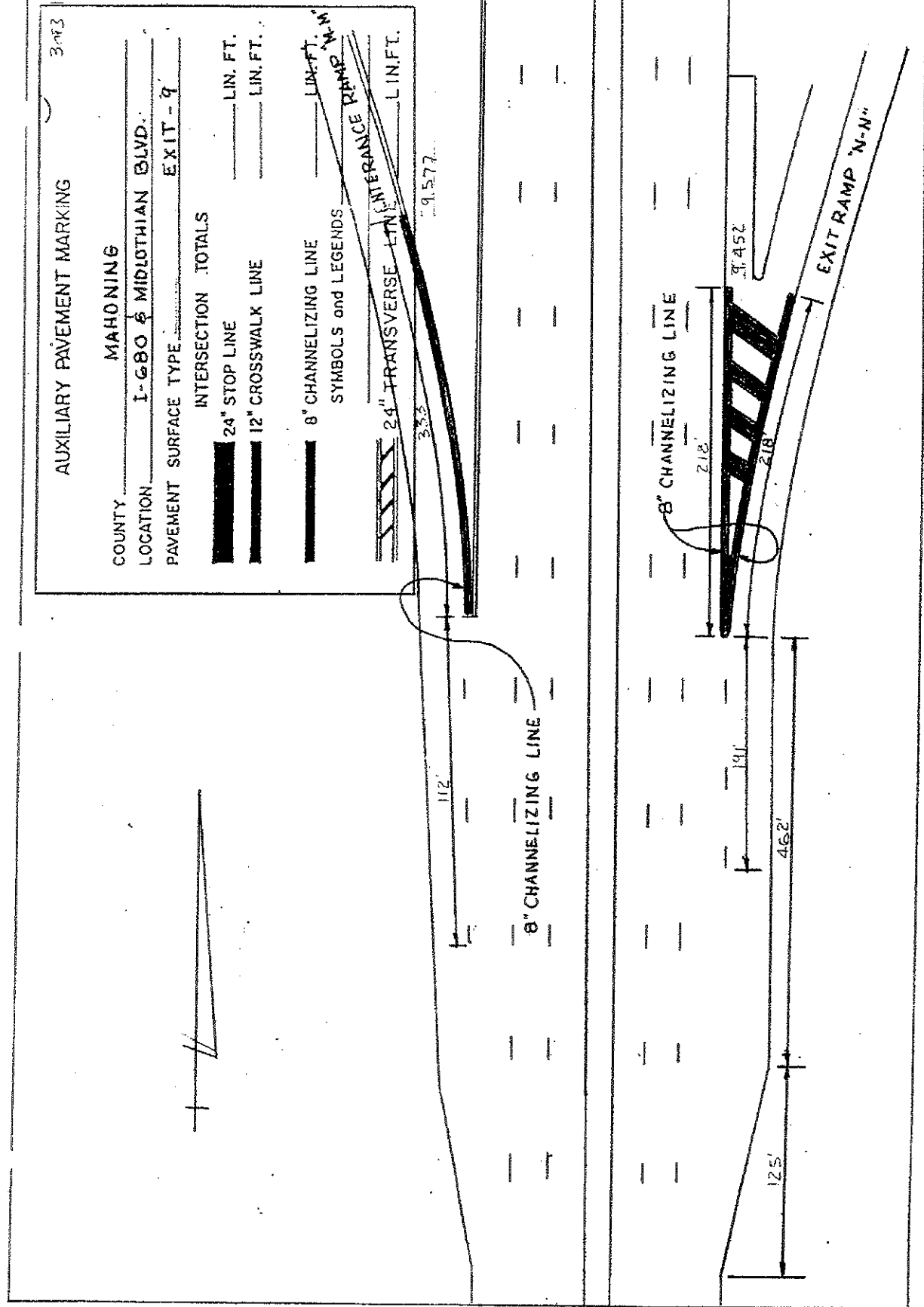
AUXILIARY PAVEMENT MARKING

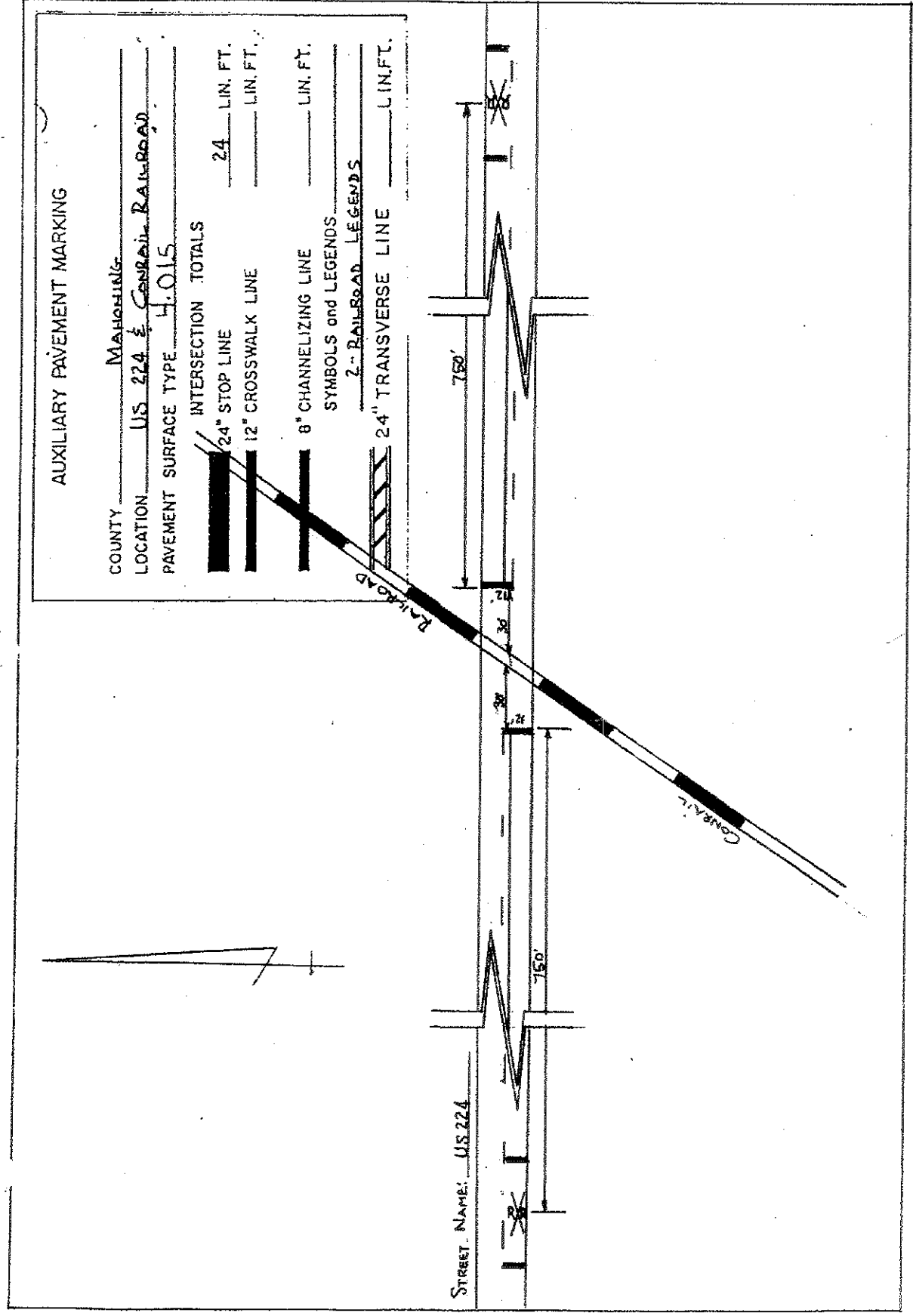
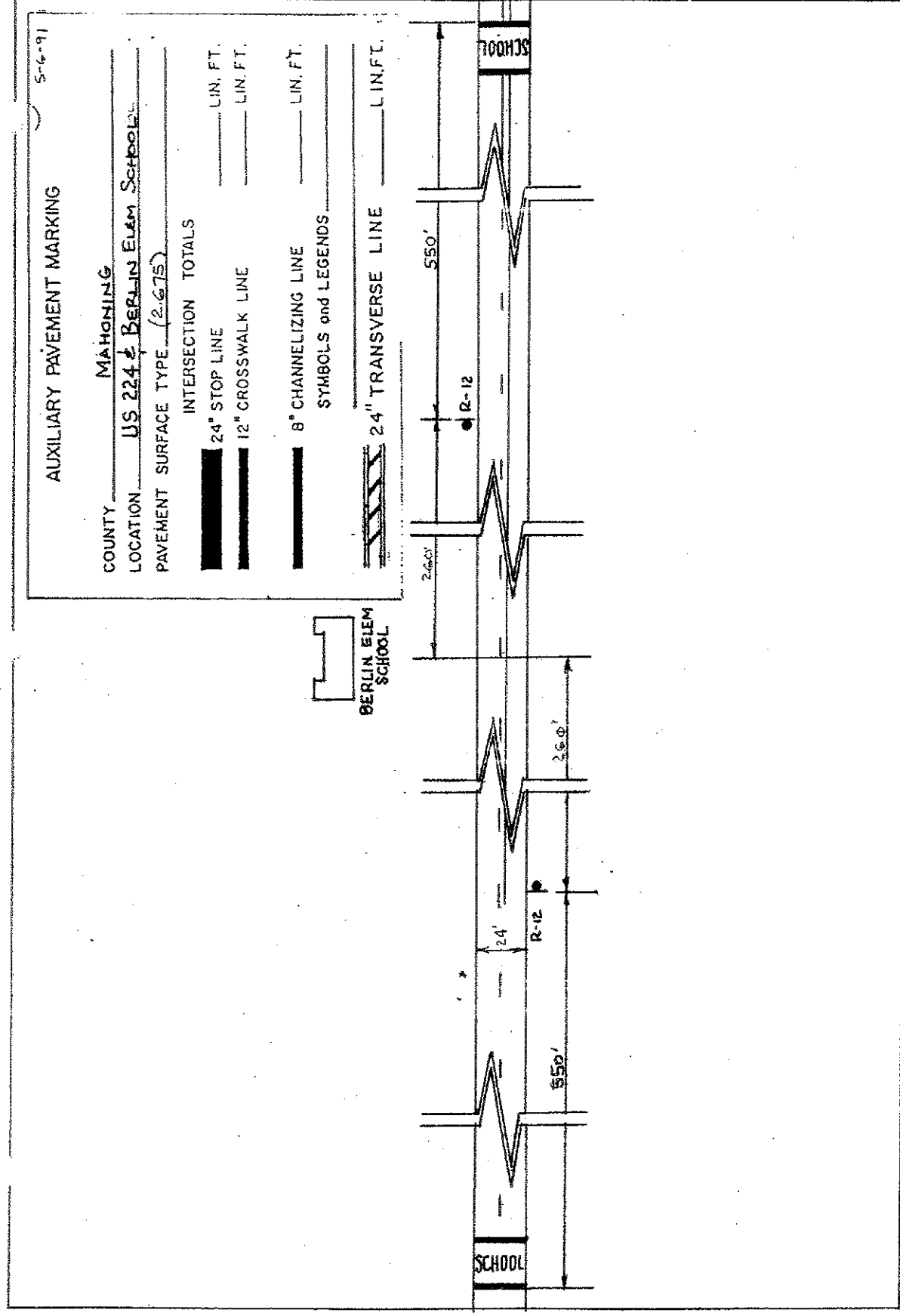
COUNTY MAHONING
 LOCATION I-680 & MIDLOTHIAN BLVD
 PAVEMENT SURFACE TYPE EXIT-9A

INTERSECTION TOTALS
 24" STOP LINE _____ LIN. FT.
 12" CROSSWALK LINE _____ LIN. FT.

8" CHANNELIZING LINE _____ LIN. FT.
 SYMBOLS and LEGENDS _____

24" TRANSVERSE LINE _____ LIN. FT.







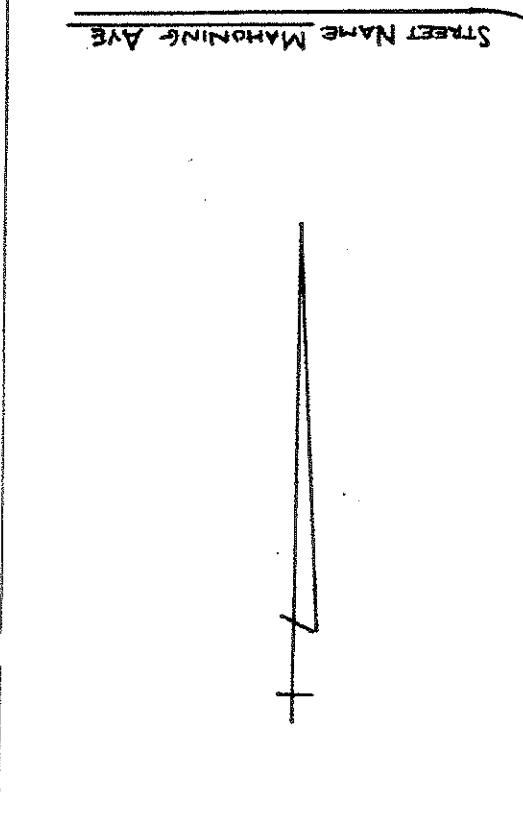
	MM-13 (12,983)	I-76 EB OFF RAMP	I-76 EB ON RAMP	PRINCETON RD (14,951)	MM-15 (14,985)
(12,934)	(12,943)	.90			
.90		.90		(14,849)	.90
.80	(12,773)	.80			
.70		.70	MAHONING AVE. (13,734)	(14,663)	(14,678)
.60		.60			
.50	PALMYRA RD (12,525)	.50	(13,534)		(14,509)
.40	(12,441)	.40		CREED RD (14,465)	
.30		.30			
.20	(12,234)	.20		20' WB ON RAMP	I-76 WB OFF RAMP (14,164)
.10		.10 (13,081)			(14,098)
12.00	(12,018)	13.00	STOLTZ RD (13,012)		(14,045)
14.00		14.00			

Yellow: Solid 1.032 Dash 0.734 Yellow: Solid 0.747 Dash 0.734 Yellow: Solid 1.573 Dash 0.340
TOTAL YELLOW THIS PAGE: SOLID 3.238, DASH 1.808, EQUIVALENT LINE 3.690

AUXILIARY PAVEMENT MARKING 4-30-92

COUNTY MAHONING
LOCATION SR 534 & MAHONING AVE
PAVEMENT SURFACE TYPE 13.734

INTERSECTION TOTALS
24" STOP LINE 52 LIN. FT.
12" CROSSWALK LINE LIN. FT.
8" CHANNELIZING LINE LIN. FT.
SYMBOLS and LEGENDS
24" TRANSVERSE LINE LIN. FT.



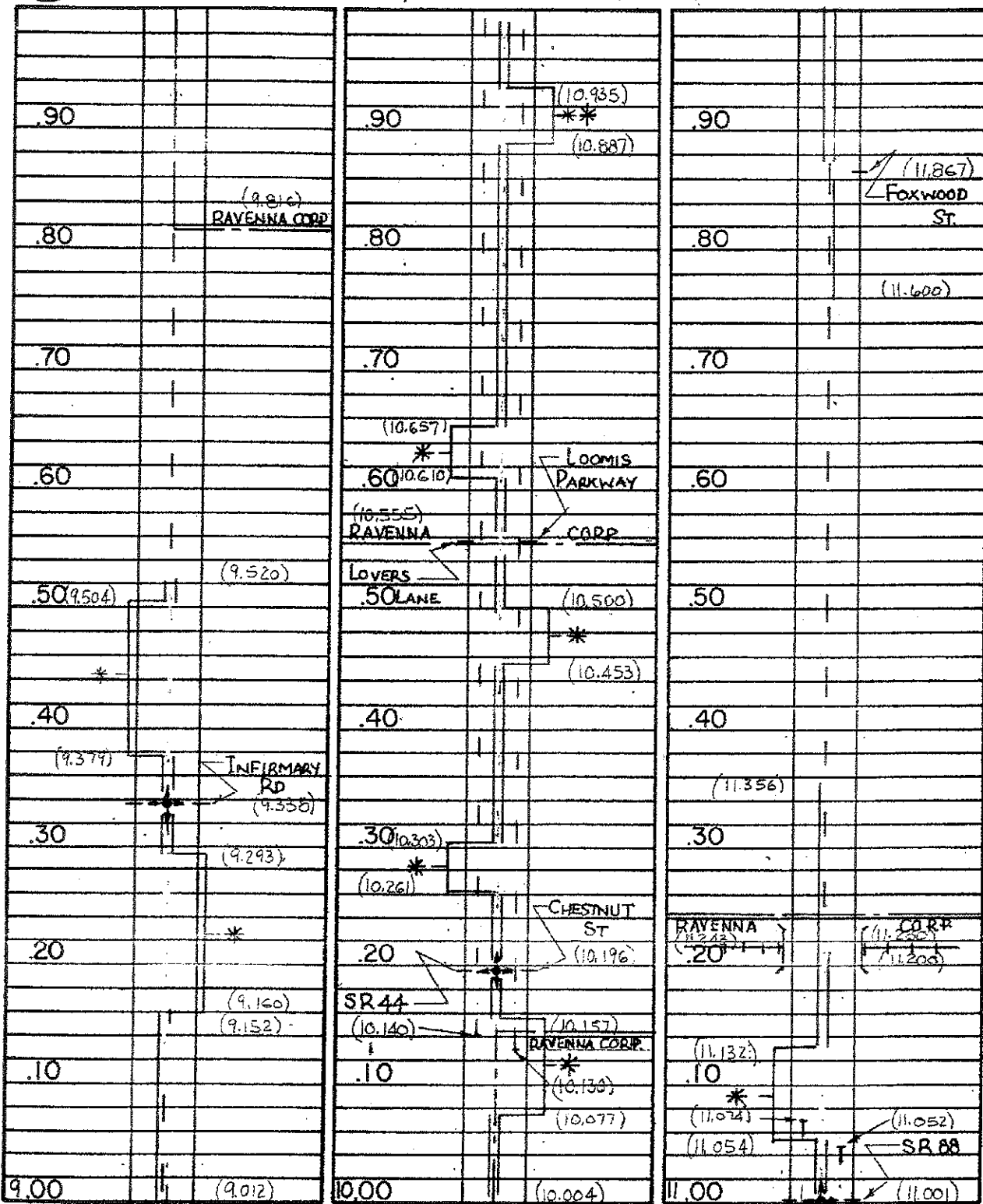
DISTRICT 4

COUNTY PORTAGE ROUTE 14

Total This Route = Yellow: Solid _____, Yellow: Dash _____, White: Dash _____
Equivalent Yellow _____



* SEE AUXILIARY PAVEMENT MARKING DETAIL



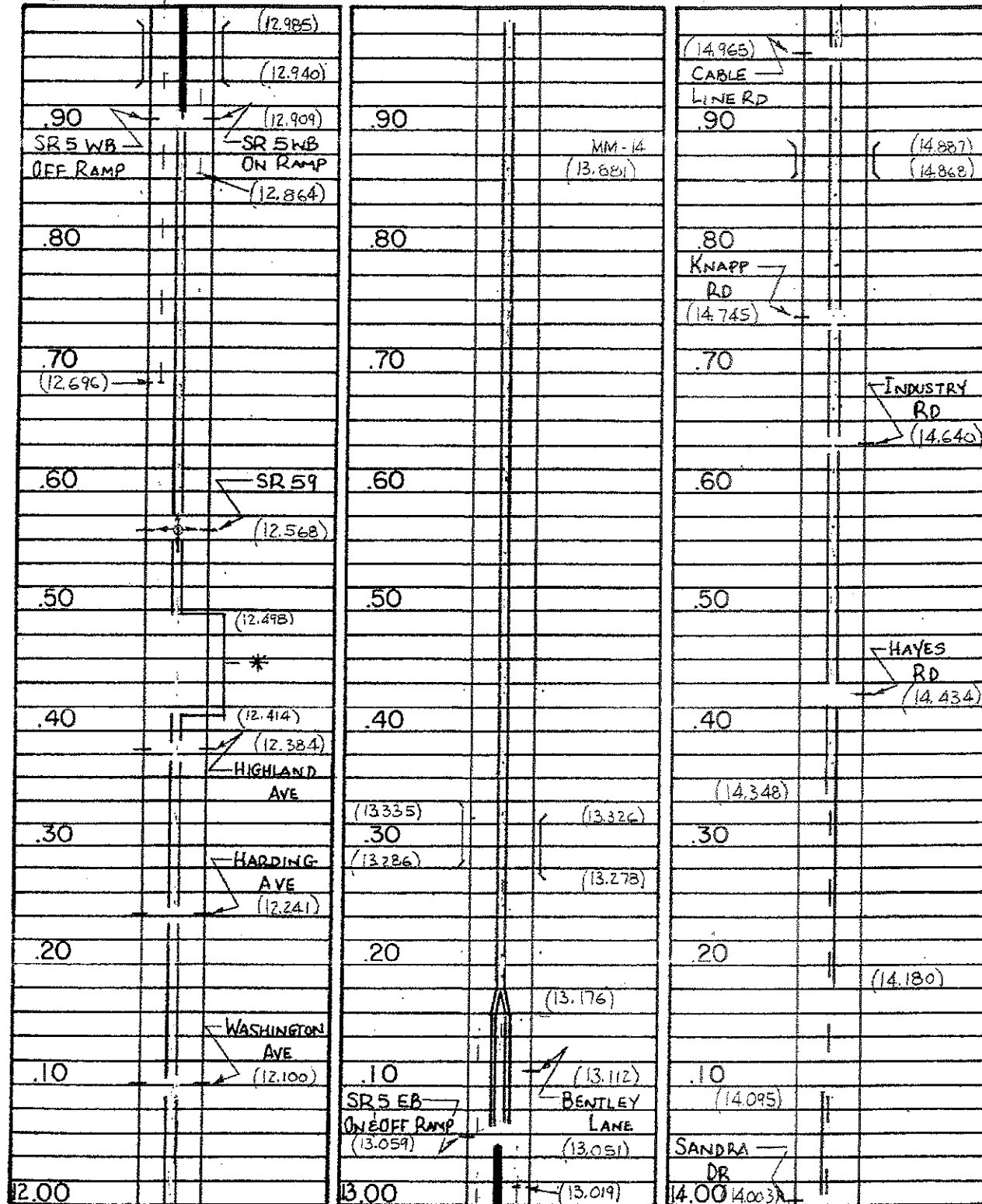
Yellow: Solid 1.392 Dash 0.620 Yellow: Solid 2.352 Dash _____ Yellow: Solid 1.672 Dash 0.783

TOTAL YELLOW THIS PAGE: SOLID 4.822, DASH 1.403, EQUIVALENT LINE 5.173

DISTRICT 4

COUNTY PORTAGE ROUTE 14

Total This Route = Yellow: Solid _____, Yellow: Dash _____, White: Dash _____
Equivalent Yellow _____



Yellow: Solid 1.572 Dash 0.106 Yellow: Solid 2.358 Dash _____ Yellow: Solid 1.718 Dash 0.399

TOTAL YELLOW THIS PAGE: SOLID 5.646, DASH 0.499, EQUIVALENT LINE 5.771

DISTRICT 4



COUNTY PORTAGE ROUTE 14

Total This Route = Yellow: Solid _____, Yellow: Dash _____, White: Dash _____
Equivalent Yellow _____

			(16.948)		(17.964)
.90			← MM-17 (16.888)		← MM-18 (17.856)
			(16.820)		(17.786)
.80	(15.818)	.80			
			(16.641)		(17.649)
.70		.70			(17.603)
					I-76 EB ON RAMP (17.551)
.60		.60			(17.448)
			(16.426)		(17.452)
.50		.50			(17.442)
					(17.331)
.40		.40			I-76 WB OFF RAMP (17.354)
					(17.285)
.30	(15.302)	.30			(17.268)
			(16.225)		
.20		.20			(17.176)
			(16.167)		
.10		.10	Booth Bp		ST. ANDREWS WAY (17.109)
15.00		16.00			17.00

Yellow: Solid 2.000 Dash _____ Yellow: Solid 1.114 Dash 0.647 Yellow: Solid 0.422 Dash 0.390

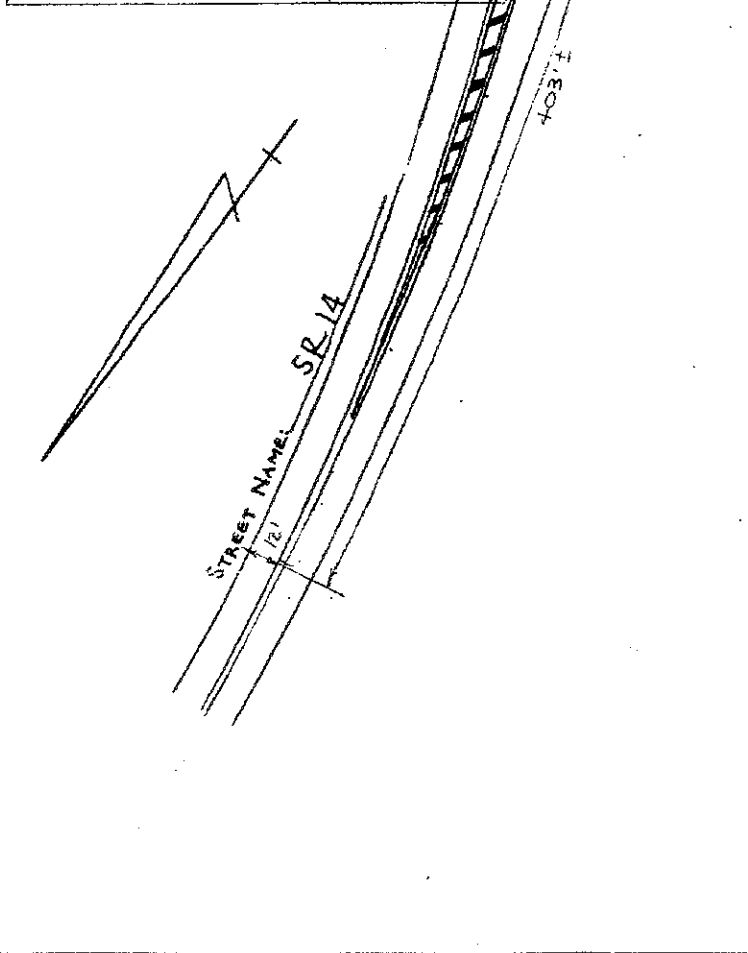
TOTAL YELLOW THIS PAGE: SOLID 4.036, DASH 1.037, EQUIVALENT LINE 4.295

AUXILIARY PAVEMENT MARKING 4-30-92

COUNTY PORTAGE
LOCATION SR 14 & SR 59
PAVEMENT SURFACE TYPE 12.568

INTERSECTION TOTALS
 24" STOP LINE _____ LIN. FT.
 12" CROSSWALK LINE _____ LIN. FT.
 8" CHANNELIZING LINE _____ LIN. FT.
 SYMBOLS and LEGENDS _____

24" TRANSVERSE LINE 318' LIN. FT.



PAVEMENT MARKINGS

D04 PM '04

