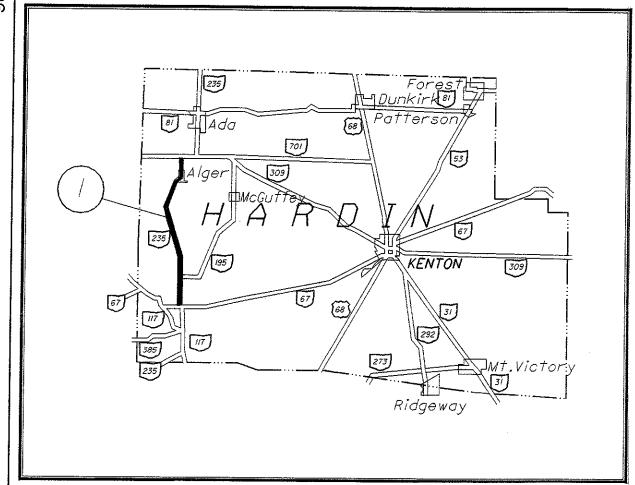
# OHIO DEPARTMENT OF TRANSPORTATION HAR-235-2.36 ALGER ROUNDHEAD & MARION TOWNSHIPS HARDIN COUNTY

## LOCATION MAP



PART	COUNTY	0007	CECTIONS	PROJECT	TERMINII	NET LENGTH MILES	CITY/VILLAGE
TART	COOWY	ROUTE	SECTIONS	BEGIN	END		
1	HAR	SR235	(2.36-13.85)	2.36	14.98	12.60	ALGER

### INDEX OF SHEETS:

TITLE SHEET GENERAL NOTES 2-3 MAILBOX TURNOUT ASPHALT CONCRETE 5 PAVEMENT MARKING SUB-SUMMARY GENERAL SUMMARY

## 2002 SPECIFICATIONS

PLAN NO.

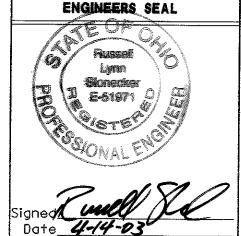
THE STANDARD 2002 SPECIFICATIONS OF THE STATE OF OHIO DEPART-MENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND THE PROPOSAL SHALL GOVERN THESE IMPROVEMENTS.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THESE IMPROVEMENTS WILL NOT REQUIRE THE CLOSING OF THE HIGHWAY AND PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS INDICATED IN THE PROPOSAL.

#### PORTION TO BE IMPROVED

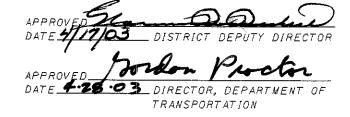
UNDERGROUND UTILITIES TWO WORKING DAYS BEFORE YOU DIG CALL 1-800-362-2764 (TOLL FREE OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS MUST BE CALLED DIRECTLY

> PLAN PREPARED BY: DISTRICT ONE DEPARTMENT OF TRANSPORTATION
> 1885 N. McCULLOUGH
> LIMA, OHIO 45802



Project Earth Disturbed Area = 0 Estimated Contractor Earth Disturbed Area = 0 Notice of Intent Earth Disturbed Area = N/A

,	IDARD VINGS	1.1	DARD VINGS	STANDARD DRAWINGS			
MT-97.10 MT-97.11 MT-99.20M MT-105.10 MT-105.11 BP-3.1	04-19-02 04-19-02 01-30-95 10-18-02 10-18-02 07-28-00	TC-41,10 TC-41,20 TC-52,10 TC-52,20 TC-65,10 TC-65,12	01-19-01 01-19-01 04-20-01 04-20-01 10-19-01				



SUPPLEMENTAL SPECIFICATIONS						
832	02-12-03					
833	02-12-03					

Ś

235

AR-

NONE

PID NO. 24308

 $\Box$ 

I

 $\langle \rangle$ 

(J

## GENERAL NOTES

TRAFFIC:

TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. THE LENGTH OF RESTRICTED TRAFFIC ZONES SHALL BE KEPT TO A MINIMUM CONSISTENT REQUIREMENTS FOR PROTECTION OF COMPLETED COURSES.

RAILROAD CROSSINGS & BRIDGE TREATMENT:

THE NEW SURFACE COURSE SHALL BE FEATHERED OR BUTT JOINTED TO MEET THE PROFILE AS SPECIFIED BY THE ENGINEER.

ALIGNMENT AND PROFILE:

THE WORK PROPOSED BY THIS PROJECT IS FOR THE RESURFACING OF THE EXISTING PAVEMENT. FOR THE MOST PART THE PROPOSED SURFACE WILL BE RAISED AN AVERAGE OF 13/4 INCHES. THE REMAINDER OF THE MATERIAL IS TO BE USED AS DETERMINED BY THE ENGINEER TO CORRECT THE EXISTING CROSS-SLOPE, ROUGH OR WEAK PAVEMENT, RUTTED AREAS, OR APPROACHES TO INTERSECTIONS, RAILROAD CROSSINGS OR BRIDGES.

SPREADING EQUIPMENT WILL HAVE AN AUTOMATIC PROFILE CONTROL DEVICE ADDED TO BE USED WHEN DIRECTED BY THE ENGINEER. THE MINIMUM LENGTH OF THE SKI FOR THIS DEVICE SHALL BE 30 FEET.

INTERMEDIATE COURSE, SPOT LEVELING AND PATCHING:

THIS MATERIAL SHALL BE PLACED IN A SEPARATE OPERATION WHERE AND AS DIRECTED BY THE ENGINEER.

ITEM 407 TACK COAT:

THE RATE OF APPLICATION OF 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT, AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.075 GALLON PER SQUARE YARD OF TACK COAT FOR ESTIMATING PURPOSES ONLY.

THE CONTRACTOR SHALL NOTE THAT ADDITIONAL CLEANING AND SURFACE

THE CONTRACTOR SHALL NOTE THAT ADDITIONAL CLEANING AND SURFACE PREPARATIONS MAY BE REQUIRED WITHIN THE CORPORATE LIMITS OF THE MUNICIPALITIES ON THIS PROJECT. ANY AND ALL ADDITIONAL WORK SHALL BE INCIDENTAL TO 407.04 PREPARATION OF SURFACE.

EXTRA AREAS:

PRIVATE DRIVES SHALL BE FEATHERED IN APPROXIMATELY 6 FEET USING 448 ASPHALT CONCRETE. SOME DRIVES MAY REQUIRE MORE THAN 6 FEET TO ALLOW FOR AN ADEQUATE TRANSITION TO THE MAINLINE PAVEMENT. THESE TRANSISTIONS WILL BE AS DIRECTED BY THE ENGINEER. THE 448 ASPHALT CONCRETE QUANTITIES FOR DRIVES, MAILBOXES, BRIDGE APPROACHES AND INTERSECTIONS ARE INCLUDED IN THE EXTRA AREA QUANTITIES.

ASPHALT CONCRETE PLACEMENT ON SHOULDERS:

THE ASPHALT CONCRETE ON THE SHOULDERS SHALL BE PLACED AT THE SAME TIME THAT THE ASPHALT CONCRETE IS PLACED ON THE ADJACENT LANES OF PAVEMENT. THE SHOULDER MATERIAL SHALL BE PLACED PARALLEL TO THE EXISTING SHOULDER GRADES.

ITEM 448 ASPHALT CONCRETE SURFACE COURSE TYPE 1, PG64-22, AS PER PLAN:
THIS ITEM SHALL MEET ALL REQUIREMENTS OF SPECS 401,441 AND 448
WITH THE FOLLOWING EXCEPTION:

I) NO RECYCLED ASPHALT PAVEMENT SHALL BE USED IN THE SURFACE COURSE. ALL COSTS ASSOCIATED WITH THE EQUIPMENT, LABOR AND MATERIALS NECESSARY FOR SUPPLYING AND PLACING THIS ITEM SHALL BE INCLUDED IN THE PRICE BID PER CUBIC YARD FOR ITEM 448 ASPHALT CONCRETE SURFACE COURSE TYPE 1, PG64-22, AS PER PLAN.

WEARING COURSE REMOVED:

A QUANTITY OF WEARING COURSE REMOVED HAS BEEN SUPPLIED TO BE USED AS DIRECTED BY THE ENGINEER FOR THE TRANSITION BETWEEN AREAS TO BE PLANED AND/OR AREA TO JUST RECEIVE A SURFACE COURSE. THIS QUANTITY IS TO BE USED FOR A BUTT JOINT AS PER BP-3.1 (ASPHALT CONCRETE TEMPORARY WEDGES SHALL BE PLACED PRIOR TO OPENING TO TRAFFIC AT ALL BUTT JOINTS), TO REMOVE IRREGULARITIES IN THE PAVEMENT AND TO TRANSITION FROM THE MAINLINE PAVEMENT INTO AN INTERSECTION. THESE AREAS SHALL BE RESURFACED WITHIN (7) SEVEN CALENDAR DAYS OF REMOVAL. IF THIS IS NOT DONE, LIQUIDATED DAMAGES WILL BE LEVIED AS PER SECTION 108.07 OF THE ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS.

MAINTAINING TRAFFIC AT PLANED AREAS:

THE CONTRACTOR SHALL ARRANGE HIS OPERATIONS SO THAT TRAFFIC IS RETURNED TO AN AREA WHEN THE PLANING IS COMPLETE. THE PLANED AREA SHALL BE CLEANED TO THE SATISFACTION OF THE ENGINEER PRIOR TO PLACING TEMPORARY MARKINGS.

ALL REQUIRED WORK ZONE PAVEMENT MARKINGS SHALL BE PLACED PRIOR TO OPENING THE AREA TO TRAFFIC. NO PLANED SURFACE SHALL REMAIN OPEN TO TRAFFIC MORE THAN (7) DAYS BEFORE BEING COVERED WITH AN ASPHALT COURSE. IF THIS IS NOT DONE, LIQUIDATED DAMAGES WILL BE LEVIED AS PER SECTION 108.07 OF THE ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS.

ITEM 604 MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN:

INCLUDED IN THE GENERAL SUMMARY FOR USE ON THIS PROJECT IS A CONTINGENCY QUANTITY OF 2 EACH - ITEM 604 MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN. THIS ITEM SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE LABOR AND EQUIPMENT TO OBTAIN THE MONUMENT BOX RISER FROM THE ENGINEER AND INSTALL IT TO THE ENGINEER'S SATISFACTION. THE USE OF THIS ITEM SHALL BE "AS DIRECTED BY THE ENGINEER."

CONVERSION OF METRIC STANDARD DRAWINGS:

THE METRIC STANDARD DRAWINGS REFERENCED IN THIS PLAN SHALL BE CONVERTED TO ENGLISH UNITS USING SI (METRIC) TO ENGLISH CONVERSION FACTORS PROVIDED IN SECTION 109.02 OF THE 2002 CONSTRUCTION AND MATERIALS SPECIFICATIONS. CONVERSIONS SHALL BE APPROPRIATELY PRECISE AND SHALL REFLECT STANDARD INDUSTRY ENGLISH VALUES WHERE SUITABLE. VALUES WHERE SUITABLE.

RAISED PAVEMENT MARKERS, REMOVED FOR STORAGE, AS PER PLAN:

THIS ITEM SHALL MEET ALL REQUIREMENTS OF 202 RAISED PAVEMENT MARKER REMOVED FOR STORAGE AND ADDITIONALLY THE CONTRACTOR SHALL DELIVER ALL REMOVED AND NON-PERFORMED RAISED PAVEMENT MARKERS TO A SPECIFIED LOCATION IN LIMA AT THE ODOT DISTRICT ONE TRAFFIC GARAGE LOCATED AT 2100 N. WEST ST., LIMA, OHIO.

CONTACT THE ROADWAY SERVICES ENGINEER AT 419-222-9055 7 DAYS

PRIOR TO DELIVERY.

ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID ITEM 202 RAISED PAVEMENT MARKER REMOVED FOR STORAGE, AS PER PLAN.



THESE ITEMS OF WORK SHALL CONSIST OF THE REMOVAL OF THE EXISTING PAVEMENT OR PAVED BERM WHICH MAY BE ASPHALT, BRICK, CONCRETE, OR A COMBINATION OF EACH, IN AREAS OF EXISTING PAVEMENT FAILURE.

THE ENGINEER SHALL DESIGNATE THE LOCATIONS AND LIMITS OF THE AREAS TO BE PREPARED. THE REPAIR AREAS SHALL BE ROUGHLY RECTANGULAR IN SHAPE AND CUT OR SAWED TO A NEAT LINE. THE PAVEMENT SHALL BE REMOVED WITHIN THE DESIGNATED AREAS BY METHODS WHICH WILL NOT DAMAGE THE ADJACENT PAVEMENT. THE DEPTH OF REMOVAL, AS DIRECTED BY THE ENGINEER, SHALL BE SUFFICIENT TO REMOVE ALL DETERIORATED PAVEMENT (MAXIMUM - 3.0 INCHES FOR ITEM 251 PARTIAL DEPTH REPAIR AND MORE THAN 3 INCHES AVERAGE FOR ITEM 253 PAVEMENT REPAIR). THE MATERIALS SO REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH 203.01.

THE VERTICAL FACES OF THE REPAIR AREA SHALL BE TACKED PRIOR TO PLACING THE 301 FOR ITEM 253 PAVEMENT REPAIR AND/OR 448 ASPHALT FOR ITEM 251 PARTIAL DEPTH REPAIR. THIS MATERIAL SHALL BE PLACED AND COMPACTED TO FINISH FLUSH WITH THE ADJACENT EXISTING PAVEMENT SURFACE PRIOR TO PLACING THE PROPOSED ASPHALT CONCRETE OVERLAY ALL COMPACTION SHALL BE ACHIEVED BY MECHANICAL METHODS TO THE

SATISFACTION OF THE ENGINEER.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT REPAIR. AN ESTIMATED QUANTITY IS PROVIDED IN THE SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER. PAY-MENT WILL BE MADE AT THE UNIT PRICE BID PER SQUARE YARD OF ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR AND PER CUBIC YARD ITEM 253 PAVEMENT REPAIR.

> 251 PARTIAL DEPTH PAVEMENT REPAIR

\_\_\_\_\_SQUARE YARD

253 PAVEMENT REPAIR

\_\_\_\_OO\_\_ CUBIC YARD

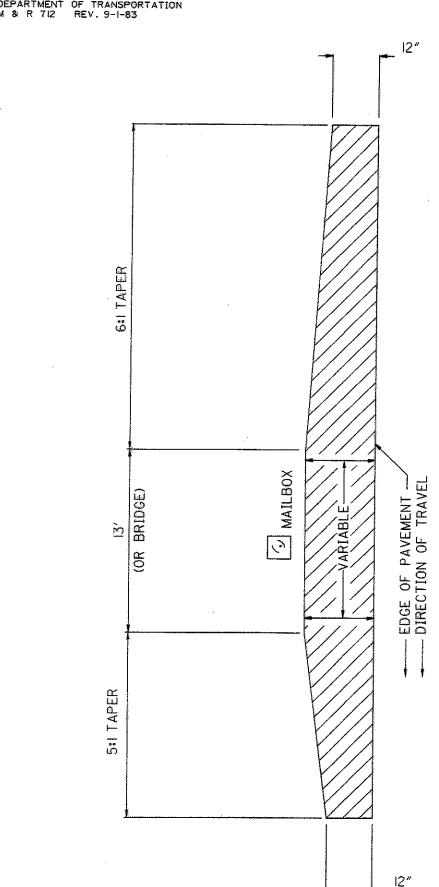
ITEM 617 COMPACTED AGGREGATE TYPE A, AS PER PLAN THIS ITEM SHALL MEET ALL REQUIREMENTS FOR ITEM 617 COMPACTED AGGREGATE TYPE A WITH THE FOLLOWING EXCEPTION:

I) NO RECYCLED ASPHALT CONCRETE PAVEMENT SHALL BE USED IN THIS ITEM ALL COSTS ASSOCIATED WITH THE EQUIPMENT. LABOR AND MATERIALS NECESSARY FOR SUPPLYING AND PLACING THIS ITEM SHALL BE INCLUDED IN THE PRICE BID PER CUBIC YARD FOR ITEM 617 COMPACTED AGGEGATE TYPE A, AS PER PLAN.

NO RAL ENE 5

5-2 8 HAR-

DOT 1920



# SINGLE - MAILBOX TURNOUT BRIDGE APPROACHES

\* IF THERE IS A DISTANCE OF 100 FEET OR LESS BETWEEN MAILBOXES: APPROCHES SHALL BE PAVED THRU TO LAST MAILBOX. THIS AREA SHALL REPRESENT LOCATION OF BRIDGE (VARIABLE LENGTH, NO WORK) FOR BRIDGE APPROACHES.

\*\* IF THERE IS A DISTANCE OF 50 FEET OR LESS BETWEEN DRIVEWAY AND MAILBOX: APPROACH SHALL BE PAVED THRU TO MAILBOX.

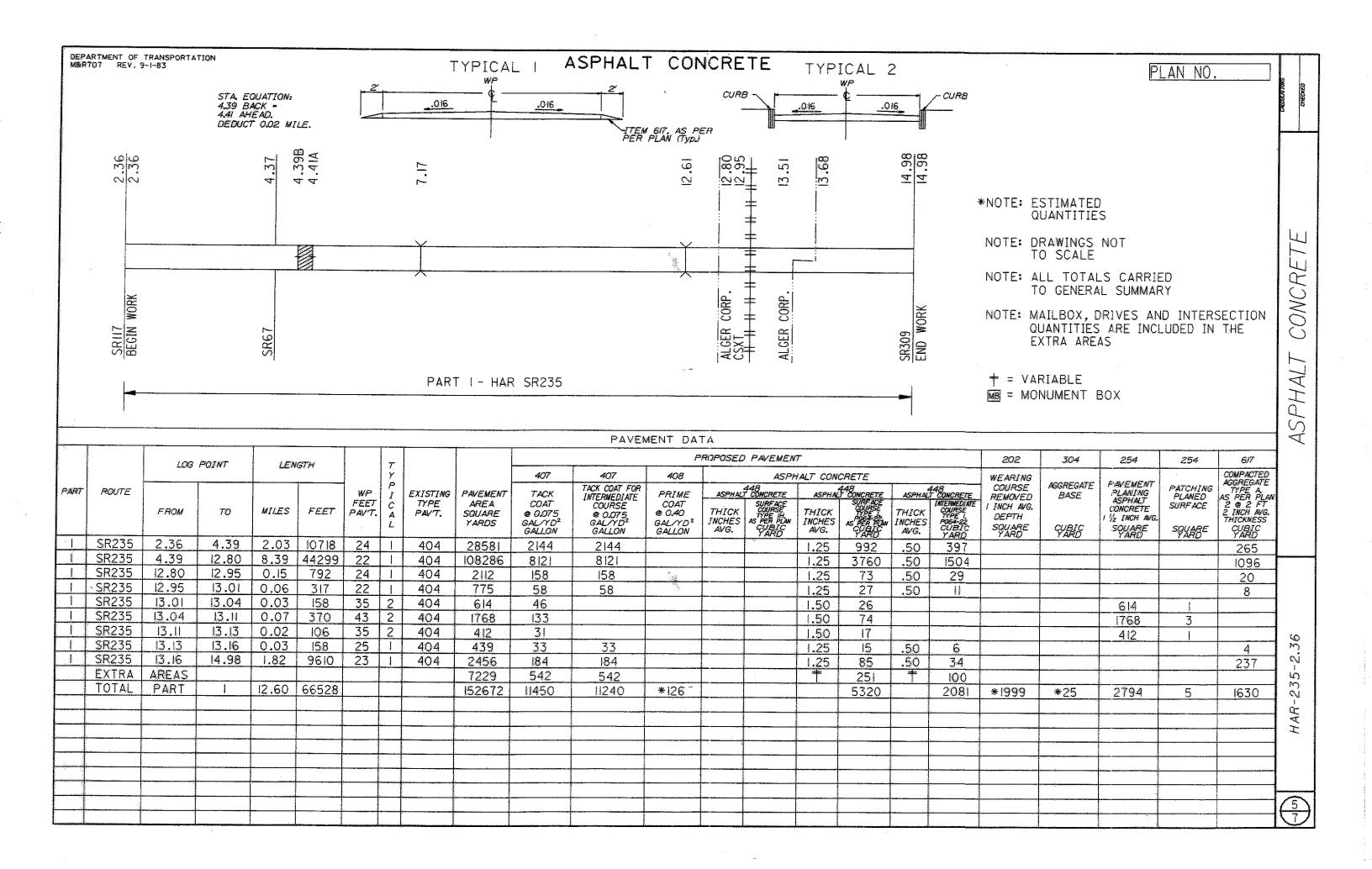
THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATING OF MATERIALS FROM ALL STONE DRIVEWAYS AND MAILBOX APPROACHES TO A DEPTH OF 2 INCHES BELOW EXISTING PAVEMENT. EXCAVATED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN RESPON-SIBILITY OUTSIDE THE LIMITS OF THE HIGHWAY RIGHT OF WAY.

WHEN UNSTABLE MATERIAL IS ENCOUNTERED, EXCAVATION OF THIS MATERIAL SHALL BE TO A DEPTH OF 6 INCHES BELOW EXISTING PAVEMENT ELEVATION. AN ESTIMATED QUANTITY OF 304 AGGREGATE BASE HAS BEEN SET UP FOR BACKFILL OF THESE AREAS.

AN ESTIMATED QUANTITY OF 408 PRIME COAT HAS BEEN SET UP TO BE USED IN THE AREAS OF EXCAVATION.

AN ADDITIONAL QUANTITY OF 448 ASPHALT CONCRETE PG64-22, AS PER PLAN HAS BEEN SET UP TO BE USED IN THOSE AREAS EXCAVATED FOR DRIVEWAYS, MAILBOX AND BRIDGE APPROACHES.

ALL WORK, MATERIALS, EXCEPT 304 AND 408, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE ABOVE DESCRIBED WORK SHALL BE INCIDENTAL TO THE PLACEMENT OF THE 448 ASPHALT CONCRETE PG64-22. AS PER PLAN.



DE	PΔ	RT	MENT	٥F	TF	ANSPORTATION
M	&	R	712	RE	٧.	9-1-83

## RPM LOCATION SUB-SUMMARY

PΙ	AM	NO	
1 L.	HIV	INU .	

DETAIL	
ı	MAINLINE UNDIVIDED
1	TYPICAL SPACING

DETAIL	
2	TAPERED ACCELERATION LANE
3	DECELERATION LANE
4	PARALLEL ACCELERATION LANE
5	MULTILANE DIVIDED/EXPRESSWAY

DETAIL	
6	STOP APPROACH
7	ONE LANE APPROACH W/IT TURN LANE
8	THRU APPROACH
9	TWO LANE APPROACH W/IT TURN LANE

DETAIL	
Ю	4 LANE DIVIDED TO 2 LANE TRANSITION
1	4 LANE UNDIVIDED TO 2 LANE TRANSITION
12	TWO LANE NARROW BRIDGE
13	ONE LANE BRIDGE
14	TWO WAY LEFT TURN
15	HORIZONTAL CURVE

DETAIL	
16	HORIZONTAL CURVE ALTERNATE
17	STOP APPROACH ALTERNATE
GAP	CENTERLINE AT 80 FT. TYPICAL

		TYPICAL SP	ACING			L RPM	DOTOMATIC	INST	LLATION ONLY	PRISMATI	IC RET	TRO-RE	FLECTO	R COLORS		
OCATION NUMBER	COUNTY	ROUTE	SEMS	SECTION	DETAIL		PRISMATIC RETRO-		-	ONE-WA	AY	.;:		<del></del>	REMARKS	
	COUNTY	ROGIE	FROM	то			REFLECTOR	RPM		WHITE YEI	LLOW	WHITE/	YELLOW	// WHITE/ RED		
	HAR	SR235	2.36	2.53	6									1		
	HAR	SR235		4.20	GAP			110				IIO				
	HAR	SR235		4.44	6			16				16				
	HAR	SR235		4.62	15			24				24				
	HAR	SR235		7.58	GAP			195	. ~		To the state of th	195				
	HAR	SR235		7.77	15			25				25				
	HAR	SR235		10.77	GAP			198				198			•	
	HAR	SR235		11.02	15			33			***************************************	33				
	<u>HAR</u>	SR235	11.02	11.78	GAP			50				50				
	HAR	SR235	11.78	12.02	15			32				32				
	HAR	SR235	12.02	12.22	GAP			13				13				
	HAR	SR235	12.22	12.46	15			32				32				
	HAR			12.54	GAP			5				5				
	HAR		12.54	12.71	15			22				22				
	HAR	SR235	12.71	12.78	GAP			5				5				
	HAR	SR235	13.84	14.81	GAP			64			-	64				
	HAR	SR235	14.81	14.98	6							11				
	T . T . I	5.5-														
	TOTAL	PART	-					846			8	346				
													alonomo e co			
			-										<del></del>			
			<u> </u>													

•			GENERAL	SUMMARY PLAN NO.	
PART I	ITEM EXTE	ENSION GRAND TOTAL	UNIT	DESCRIPTION	CCULATIONS CHECKED
1999	202 23	3500 1999	SQ YARD	WEARING COURSE REMOVED	<b>=</b> 3
830		4101 830	EACH	RAISED PAVEMENT MARKERS REMOVED FOR STORAGE, AS PER PLAN	
50	251 01	1000 50	SQ YARD	PARTIAL DEPTH PAVEMENT REPAIR	1
100		2000 100	ÇU YARD	PAVEMENT REPAIR	1.
2794	254 01	000 2794	SQ YARD	PAVEMENT PLANING, ASPHALT CONCRETE	1
					1
. 5	254 01	1600 5	SQ YARD	PATCHING PLANED SURFACE	
25		0000 25	CU YARD	AGGREGATE BASE	1
11450		000 11450	GALLON	TACK COAT	ARY
11240		000 11240	GALLON	TACK COAT FOR INTERMEDIATE COURSE	13
126		000   126	GALLON	PRIME COAT	UMM
					13
2081	448 46	020 2081	CU YARD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22	13
5320	448 47	7021 5320	CU YARD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22, AS PER PLAN	1
2	604   39	9501 2	EACH	MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN	
50	614 124	460 50	EACH	WORK ZONE MARKING SIGN	ER
25.20	614 21	400 25.20	MILE	WORK ZONE CENTER LINE, CLASS II	NE
1630	617 10	101 1630	CU YARD	COMPACTED AGGREGATE, TYPE A, AS PER PLAN	5
846	621 00	200 846	EACH	RAISED PAVEMENT MARKER, INSTALLATION ONLY	1
24.96	642 00	090 24.96	MILE	EDGE LINE	
12.60	642 00	290   12.60	MILE	CENTER LINE	
75	647 180	070 75	FĪ	STOP LINE, TYPE C	
799			·		
I CLEAN					
<u>LUMP</u>		000 LUMP		MAINTAINING TRAFFIC	1
LUMP	624 100	DOO LUMP	**	MOBILIZATION	_
					36
		4			S
					55-
					23
	The state of the s				AR
					Ĭ
					]
	111		3. <del>*</del>		
÷					1
	1	1		1	

\* \*

\*