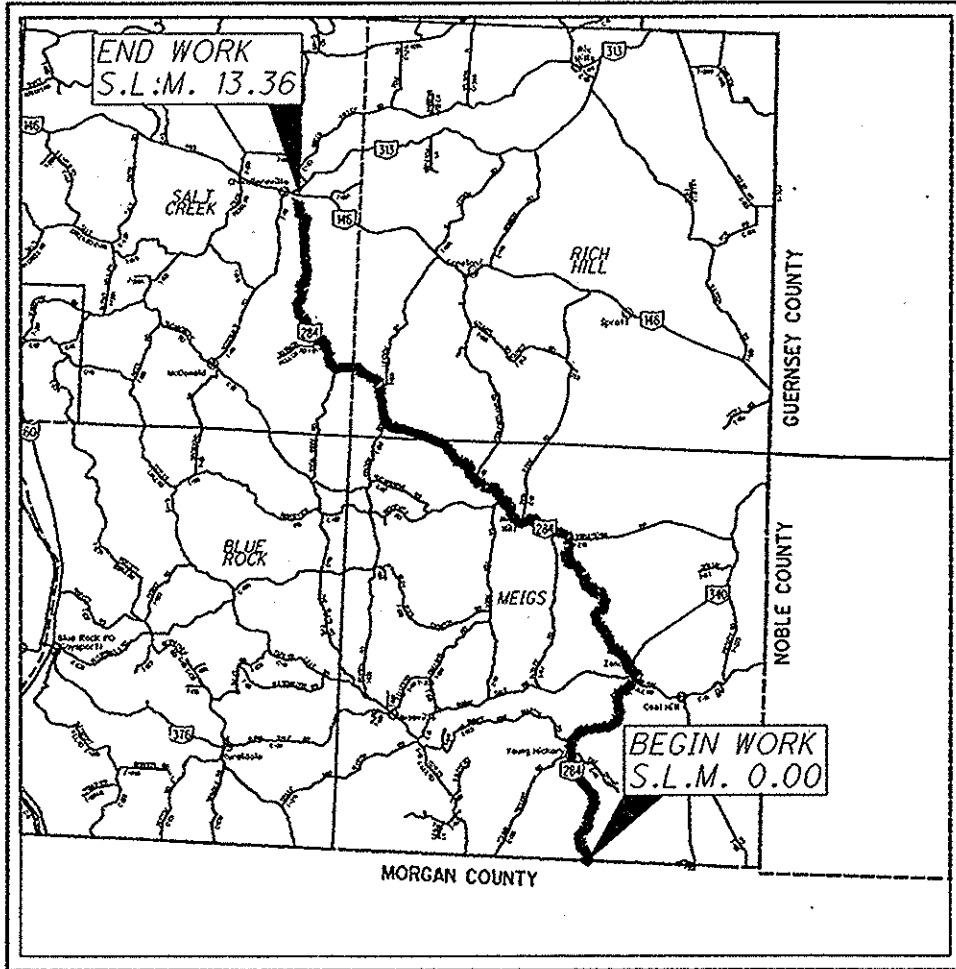


LOCATION MAP



LATITUDE: 39°50'41" N LONGITUDE: 81°46'48" W



PORTION TO BE IMPROVED .....  
 INTERSTATE & DIVIDED HIGHWAY .....  
 UNDIVIDED STATE & FEDERAL ROUTES .....  
 OTHER ROADS .....

**UNDERGROUND UTILITIES**  
 CONTACT BOTH SERVICES  
 CALL TWO WORKING DAYS  
 BEFORE YOU DIG  
 CALL  
 1-800-362-2764  
 (TOLL FREE)  
 OHIO UTILITIES PROTECTION SERVICE  
 NON-MEMBERS  
 MUST BE CALLED DIRECTLY  
 OIL & GAS PRODUCERS PROTECTIVE  
 SERVICE CALL: 1-800-925-0988

PLAN PREPARED BY:  
 Ohio Department of  
 Transportation,  
 District 5  
 Production Department

STATE OF OHIO  
 DEPARTMENT OF TRANSPORTATION

**MUS-284-0.00**

**MEIGS, RICH HILL AND  
 SALT CREEK TOWNSHIP  
 MUSKINGUM COUNTY**

PROJECT DESCRIPTION:

SINGLE CHIP SEAL ON S.R. 284 FROM MUSKINGUM/  
 MORGAN COUNTY LINE TO S.R. 146 IN MUSKINGUM  
 COUNTY.

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)

INDEX OF SHEETS:

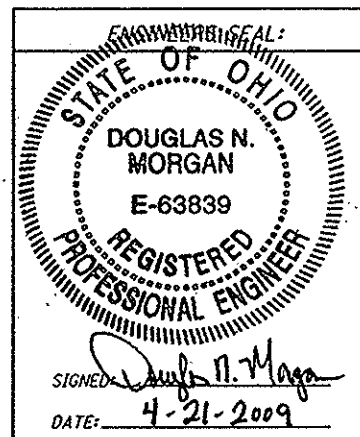
TITLE SHEET .....	1
GENERAL NOTES .....	2-3
TRAFFIC CONTROL DETAIL .....	4
PAVEMENT DATA .....	5
PAVEMENT MARKING DATA .....	6
RPM DATA .....	7-8
GENERAL SUMMARY .....	9

2008 SPECIFICATIONS

THE STANDARD 2008 SPECIFICATIONS OF THE STATE OF OHIO  
 DEPARTMENT 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 THAT PROVISIONS FOR THE MAINTENANCE AND  
 SAFETY OF TRAFFIC WILL AS INDICATED IN THE PROPOSAL.

DESIGN DESIGNATION	S.R. 284
OPENING YEAR ADT (2009)	190
DESIGN YEAR ADT (2021)	190
DESIGN HOURLY VOLUME (2021)	23
DIRECTIONAL DISTRIBUTION	55%
TRUCKS (24 HOUR B&C)	6%
DESIGN SPEED	55 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	MINOR COLLECTOR
NHS PROJECT	NO
DESIGN EXCEPTIONS	NONE



STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	
MT-97.10	4/17/09	TC-65.10	1/21/05	800	4/17/09
MT-97.11	4/17/09	TC-65.11	1/21/05	832	5/05/09
MT-99.20	1/16/09	TC-71.10	1/16/09		
MT-105.10	1/16/09	TC-73.10	1/19/01		

APPROVED *William H. Federman*  
 DATE 4-22-09 DISTRICT DEPUTY DIRECTOR

APPROVED *John M. Maltonis*  
 DATE 5-13-09 DIRECTOR, DEPARTMENT OF  
 TRANSPORTATION

MUS - SR-284-0.00  
 090419 PID - 86483  
 Dist 5 8/12/2009

60/10/4 NSD100'SJW'08488

FEDERAL PROJECT NO. NON-FEDERAL  
 PID NO. 86483  
 CONSTRUCTION PROJECT NO.  
 RAILROAD INVOLVEMENT NONE  
 MUS-284-0.00  
 1/9

**UTILITIES**

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER OR ADJACENT TO THE WORK AREA.

**PROFILE AND ALIGNMENT**

THE PROPOSED PAVEMENT SHALL FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT.

**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.

**NOTIFICATION OF ROAD CLOSURE OR RESTRICTION**

IN ORDER FOR ODOT TO PROPERLY PERMIT OVERSIZE LOADS, PREPARE PROPER SIGNING WHEN REQUIRED AND FURTHER TO NOTIFY THE GENERAL MOTORING PUBLIC, THE CONTRACTOR SHALL NOTIFY (IN WRITING) THE DISTRICT 5 HIGHWAY MANAGEMENT ADMINISTRATOR WITH COPIES FOR THE DISTRICT 5 ROADWAY SERVICES MANAGER AND PROJECT ENGINEER NOT LESS THAN 21 DAYS BEFORE SUCH CLOSURE OR LANE RESTRICTIONS.

SEND NOTIFICATION TO:

DISTRICT 5 HIGHWAY MANAGEMENT ADMINISTRATOR  
P.O. BOX 306  
JACKSONSTOWN, OH 43030  
PHONE: 740. 323.4400 EXT. 5241

**ITEM 621, RAISED PAVEMENT MARKER REMOVED**

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE PLANS TO REMOVE RAISED PAVEMENT MARKERS FOR DISPOSAL BY THE CONTRACTOR. RPM REMOVAL SHALL NOT OCCUR SOONER THAN 10 DAYS PRIOR TO RESURFACING OF THE ROADWAY. ALL RPM'S REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

LOCATION 1 – 1,474 EACH

**PAVEMENT MARKINGS**

STOP LINES, CROSSWALK LINES, CHANNELIZING LINES, ETC., SHOWN IN THE PLANS ARE TAKEN FROM EXISTING MARKINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DOCUMENT EXISTING MARKING LOCATIONS (i.e. BY USE OF VIDEO, PICTURES) AND PLACE NEW PAVEMENT MARKINGS AS NEAR AS POSSIBLE TO THE EXISTING LOCATIONS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. DOCUMENTATION OF PAVEMENT MARKING SHALL BE SUPPLIED TO THE ENGINEER BEFORE COMMENCEMENT OF ANY OPERATION WHICH WILL REMOVE/OBLITERATE MARKINGS.

**ITEM 642, FINAL PAVEMENT MARKINGS**

IN ADDITION TO THE PAVEMENT MARKINGS PLACED ON THE CHIP SEAL IMMEDIATELY AFTER COMPLETING THE CHIP SEAL WORK, AN ADDITIONAL APPLICATION OF THE FINAL PAVEMENT MARKINGS HAS BEEN PROVIDED AND SHALL BE PLACED NO SOONER THAN 30 CALENDAR DAYS AND NO MORE THAN 45 CALENDAR DAYS AFTER THE CHIP SEAL WORK HAS BEEN COMPLETED.

THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$50 FOR EACH MINUTE THE ABOVE DESCRIBED RESTRICTIONS ARE VIOLATED.

**ITEM 614, MAINTAINING TRAFFIC (AT ALL TIMES)**

A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT AND UTILIZING FLAGGERS.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT, IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

**ITEM 614, WORK ZONE MARKING SIGN**

THE FOLLOWING WORK ZONE MARKING SIGNS HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

W8-H12A (NO EDGE LINES)	32 EACH
R4-1 (DO NOT PASS)	18 EACH
R4-2 (PASS WITH CARE)	13 EACH
<b>ITEM 614, WORK ZONE MARKING SIGN</b>	<b>63 EACH</b>

**ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS AS PER PLAN**

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN, ON SITE, FOR THE DURATION OF THE PROJECT. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS MAINTAINED BY THE DIRECTOR (OFFICE OF MATERIALS MANAGEMENT). THE APPROVED LIST OF PORTABLE CHANGEABLE MESSAGE SIGNS CAN BE FOUND ON THE ODOT WEBSITE BY CLICKING ON THE SERVICES MENU, THEN CLICKING ON MATERIALS MANAGEMENT. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 650 FT. AND 475 FT., RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. PCMS TRAILERS SHOULD BE DELINEATED ON A PERMANENT BASIS BY AFFIXING RETROREFLECTIVE MATERIAL, IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER AS SEEN BY ONCOMING ROAD USERS.

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS ARE SHOWN ON SHEET(S) OF THE PLAN. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED,

FACING AWAY FROM ALL TRAFFIC, AND SHALL DISPLAY ONE OR MORE TYPE G YELLOW RETROREFLECTIVE SHEETING SURFACES OF 9-INCH BY 15-INCH MINIMUM SIZE FACING TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

(THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 2 HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.)

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER.

THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

**ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN(cont'd)**

(THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.)

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF CMS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

A TOTAL OF 2 PCMS SHALL BE REQUIRED FOR THIS PROJECT. (2 PCMS x 1 MONTH = 2 SIGN-MONTH)

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO GENERAL SUMMARY SHEET:

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN  
**2 SIGN-MONTH**

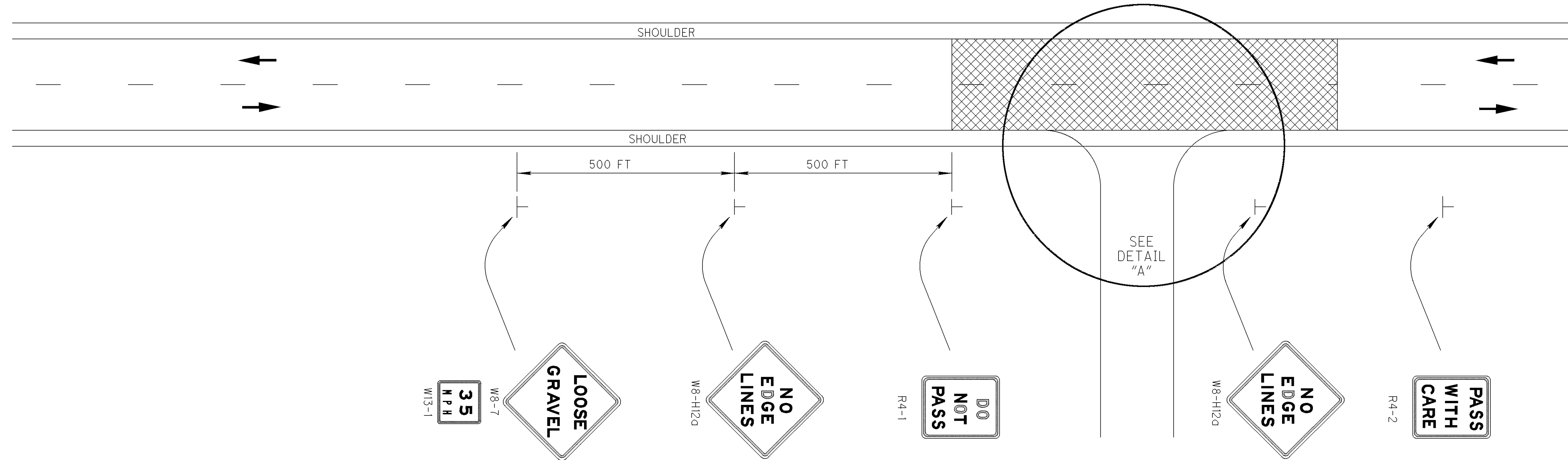
86483\_MGN\_002.DGN 4/07/09

CALCULATED  
JLS  
CHECKED  
DMM

GENERAL NOTES

MUS - 284 - 0.00

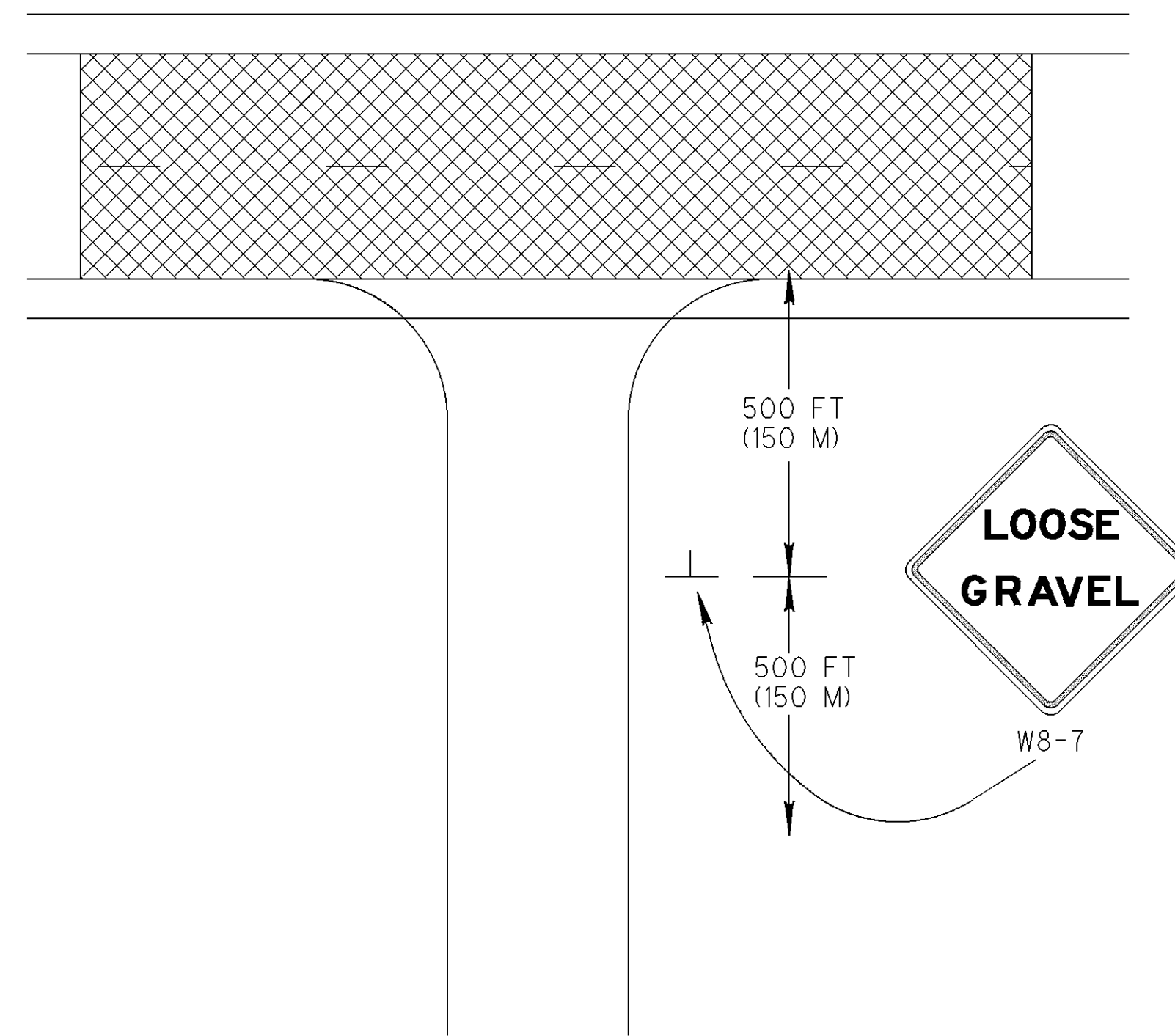
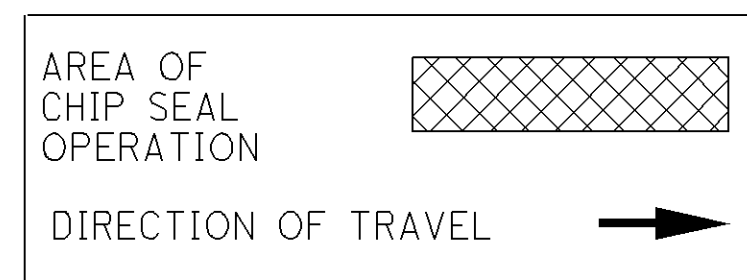
3  
9



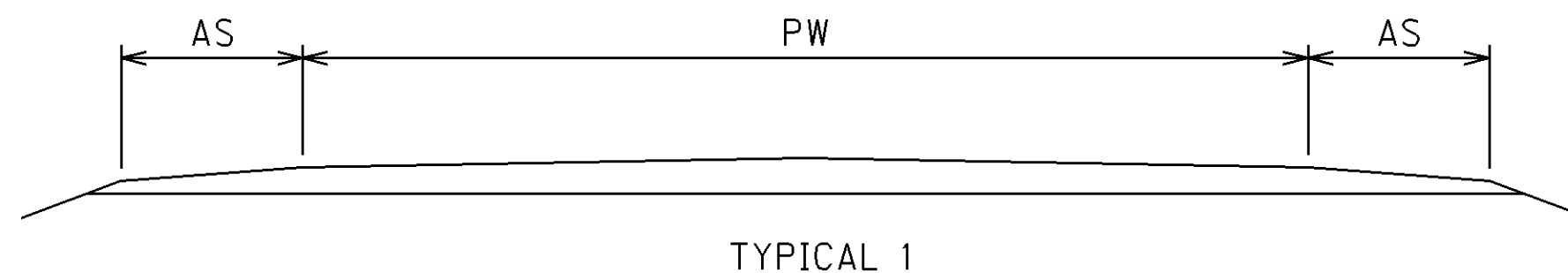
GENERAL NOTES:

1. THE SUGGESTED MINIMUM SIGN SPACING IS 200 FEET, WITH 500 FEET SPACING DESIRABLE.
2. THE NO EDGE LINE (W8-H12a) AND DO NOT PASS (R4-1) SIGNS SHOULD BE REPEATED EVERY 2 MILES AND AT INTERSECTIONS PER CMS 614.04.
3. THE PASS WITH CARE (R4-2) SIGN, SHOWN AT THE TERMINATION POINT OF THE CHIP SEAL ACTIVITY, SHALL NOT BE INSTALLED IF THIS POINT IS LOCATED IN A NO PASSING ZONE OR WITHIN 500 FEET OF THE NEXT NO PASSING ZONE.
4. REPEAT THE LOOSE GRAVEL (W8-7) WITH AN ADVISORY SPEED PLAQUE (W13-1) EVERY 1/2 MILE PER CMS 422.09.
5. REMOVE THE NO EDGE LINES (W8-H12a) SIGNS AFTER PLACING FINAL MARKINGS.
6. REPEAT SIGN LAYOUT IN OPPOSITE DIRECTION.
7. TEMPORARY TRAFFIC CONTROL FOR CHIP SEAL OPERATIONS IS NOT SHOWN.
8. FOR SIGNING OF SIDE ROADS INTERSECTING THE WORK AREA, SEE DETAIL "A".

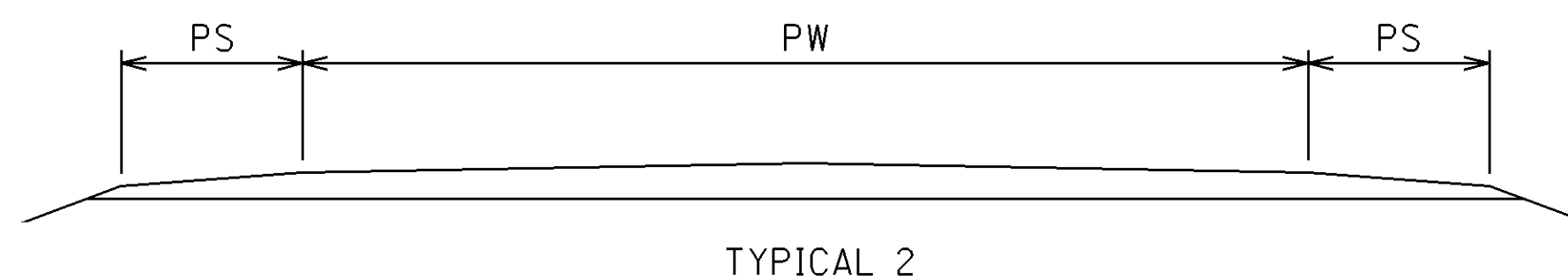
LEGEND



**DETAIL "A"**



PW = PAVEMENT WIDTH  
PS = PAVED SHOULDER  
AS = AGGREGATE SHOULDER



PAVEMENT DATA

PAVEMENT DATA														
LOCATION	COUNTY	ROUTE	BEGIN LOG POINT	END LOG POINT	LENGTH		PAVEMENT WIDTH (FEET)	TYPICAL	EXISTING PAVEMENT TYPE	PAVEMENT AREA	422		614	
					MILES	LIN. FT.					SQ. YD.	SQ. YD.	WORK ZONE CENTER LINE, CLASS II	MILE
1	MUS	S.R. 284	0.00	2.02	2.02	10,665.60	18.0	1	448	21,331.2		21,331.2		2.02
1	MUS	S.R. 284	2.02	3.02	1.00	5,280.00	20.0	1	448	11,733.3		11,733.3		1.00
1	MUS	S.R. 284	3.02	13.36	10.34	54,595.20	18.0	1	448	109,190.4		109,190.4		10.34
TOTAL (CARRIED TO GENERAL SUMMARY)												142,254.9		13.36

**EDGE LINE DATA**

L O C A T I O N	C O U N T Y	R O U T E	S.L.M.		T O T A L L E N G T H  M I L E S	I T E M 6 4 2, E D G E L I N E, T Y P E 1 ( W H I T E ) Q U A N T I T I E S				T O T A L E D G E L I N E M I L E S	R E M A R K S
						1st APPLICATION		2nd APPLICATION			
			FROM	TO		TOTAL MILES	HIGHWAY MILES	TOTAL MILES	HIGHWAY MILES		
			1	MUS		S.R. 284	0.00	13.36	13.36		
TOTAL (CARRIED TO GENERAL SUMMARY)										53.44	

**CENTER / STOP LINE DATA**

L O C A T I O N	C O U N T Y	R O U T E	S.L.M.		T O T A L L E N G T H  ( M I L E S)	I T E M 6 4 2, C E N T E R L I N E, T Y P E 1 Q U A N T I T I E S				T O T A L C E N T E R L I N E M I L E S	I T E M 6 4 4, S T O P L I N E Q U A N T I T I E S  ( P L A C E A S D I R E C T E D)	R E M A R K S
						1st APPLICATION		2nd APPLICATION				
			FROM	TO		TOTAL MILES	EQUIVALENT SOLID LINE	TOTAL MILES	EQUIVALENT SOLID LINE			
			1	MUS		S.R. 284	0.00	13.36	13.36		24.567	
TOTAL (CARRIED TO GENERAL SUMMARY)									26.72			

DETAIL	
1	TAPERED ACCELERATION LANE
2	DECELERATION LANE
3	MULTILANE DIVIDED/ CONTROLLED ACCESS

DETAIL	
4	4 LANE DIVIDED TO 2 LANE TRANSITION
5	4 LANE UNDIVIDED TO 2 LANE TRANSITION
6	ONE LANE BRIDGE
7	STOP APPROACH
8	THRU APPROACH
9	TWO WAY LEFT TURN LANE

DETAIL	
10	APPROACH W/LT. TURN LANE
11	HORIZONTAL CURVE 40' (NOTE 2)
12	HORIZONTAL CURVE ALT. (NOTE 3)
GAP	CENTERLINE AT 80' TYP.

L O C A T I O N N U M B E R	LOCATION				D E T A I L	RPM	ITEM QUANTITIES			P R I S M A T I C R E T R O - R E F L E C T O R	P R I S M A T I C R E T R O - R E F L E C T O R C O L O R S					R E M A R K S		
	C O U N T Y	R O U T E	S.L.M. M I L E S				I N S T A L L A T I O N O N L Y				O N E - W A Y		T W O - W A Y					
			FROM	TO			RPM	RPM C A S T I N G	P R I S M A T I C R E T R O - R E F L E C T O R		W H I T E	Y E L L O W	Y E L L O W / Y E L L O W	W H I T E / R E D	Y E L L O W / R E D			
														W H I T E	Y E L L O W		Y E L L O W / Y E L L O W	W H I T E / R E D
1	MUS	SR 284	0.00	0.77	GAP		51							51				
1	MUS	SR 284	0.77	0.93	12		25							25				PC 0.86 PT 0.89 L=158' DEG 16
1	MUS	SR 284	0.93	1.05	12		20							20				PC 0.93 PT 0.96 L=158' DEG 13
1	MUS	SR 284	1.05	1.46	GAP		27							27				
1	MUS	SR 284	1.46	1.50	11		5							5				PC 1.46 PT 1.50 L=211' DEG 9
1	MUS	SR 284	1.50	1.85	GAP		23							23				
1	MUS	SR 284	1.85	1.90	11		7							7				PC 1.85 PT 1.90 L=264' DEG 9
1	MUS	SR 284	1.90	1.99	GAP		6							6				
1	MUS	SR 284	1.99	2.17	12		32							32				PC 2.08 PT 2.14 L=317' DEG 11
1	MUS	SR 284	2.17	2.21	11		5							5				PC 2.17 PT 2.21 L=211' DEG 9
1	MUS	SR 284	2.21	2.42	12		32							32				PC 2.29 PT 2.33 L=211' DEG 12
1	MUS	SR 284	2.42	2.45	GAP		2							2				
1	MUS	SR 284	2.45	2.60	12		28							28				PC 2.54 PT 2.60 L=317' DEG 22
1	MUS	SR 284	2.60	2.73	12		22							22				PC 2.60 PT 2.64 L=211' DEG 17
1	MUS	SR 284	2.73	2.89	GAP		10							10				
1	MUS	SR 284	2.89	3.15	12		45							45				PC 2.98 PT 3.06 L=422' DEG 15
1	MUS	SR 284	3.15	3.29	GAP		9							9				
1	MUS	SR 284	3.29	3.55	12		45							45				PC 3.38 PT 3.46 L=422' DEG 18
1	MUS	SR 284	3.55	3.67	12		19							19				PC 3.56 PT 3.59 L=158' DEG 19
1	MUS	SR 284	3.67	3.79	12		20							20				PC 3.67 PT 3.70 L=158' DEG 23
1	MUS	SR 284	3.79	3.98	12		29							29				PC 3.89 PT 3.92 L=158' DEG 13
1	MUS	SR 284	3.98	4.10	12		20							20				PC 3.98 PT 4.01 L=158' DEG 20
1	MUS	SR 284	4.10	4.52	GAP		28							28				
1	MUS	SR 284	4.52	4.61	11		12							12				PC 4.52 PT 4.61 L=475' DEG 9
1	MUS	SR 284	4.61	4.67	GAP		4							4				
1	MUS	SR 284	4.67	4.76	11		12							12				PC 4.67 PT 4.76 L=475' DEG 9
1	MUS	SR 284	4.76	4.81	GAP		3							3				
1	MUS	SR 284	4.81	4.97	12		26							26				PC 4.90 PT 4.94 L=211' DEG 20
1	MUS	SR 284	4.97	5.05	12		18							18				PC 4.97 PT 5.03 L=317' DEG 14
1	MUS	SR 284	5.05	5.11	12		15							15				PC 5.05 PT 5.09 L=211' DEG 19
1	MUS	SR 284	5.11	5.25	12		29							29				PC 5.11 PT 5.19 L=422' DEG 13
1	MUS	SR 284	5.25	5.37	12		20							20				PC 5.25 PT 5.28 L=158' DEG 11
1	MUS	SR 284	5.37	5.49	GAP		8							8				
1	MUS	SR 284	5.49	5.54	11		7							7				PC 5.49 PT 5.54 L=264' DEG 9
1	MUS	SR 284	5.54	5.69	12		27							27				PC 5.59 PT 5.64 L=264' DEG 15
1	MUS	SR 284	5.69	5.78	12		18							18				PC 5.69 PT 5.73 L=211' DEG 17
1	MUS	SR 284	5.78	5.91	12		23							23				PC 5.78 PT 5.82 L=211' DEG 20
1	MUS	SR 284	5.91	5.93	GAP		1							1				
1	MUS	SR 284	5.93	5.96	11		4							4				PC 5.93 PT 5.96 L=158' DEG 5
TOTALS CARRIED TO NEXT SHEET							737							737				

RPM DATA

MUS - 284 - 0.00

DETAIL	
1	TAPERED ACCELERATION LANE
2	DECELERATION LANE
3	MULTILANE DIVIDED/ CONTROLLED ACCESS

DETAIL	
4	4 LANE DIVIDED TO 2 LANE TRANSITION
5	4 LANE UNDIVIDED TO 2 LANE TRANSITION
6	ONE LANE BRIDGE
7	STOP APPROACH
8	THRU APPROACH
9	TWO WAY LEFT TURN LANE

DETAIL	
10	APPROACH W/LT. TURN LANE
11	HORIZONTAL CURVE 40' (NOTE 2)
12	HORIZONTAL CURVE ALT. (NOTE 3)
GAP	CENTERLINE AT 80' TYP.

LOCATION NUMBER	LOCATION				DETAIL	RPM	ITEM QUANTITIES			PRISMATIC RETRO-REFLECTOR	PRISMATIC RETRO-REFLECTOR COLORS					REMARKS	
	COUNTY	ROUTE	S.L.M. MILES				INSTALLATION ONLY				ONE-WAY		TWO-WAY				
			FROM	TO			RPM	RPM CASTING	PRISMATIC RETRO-REFLECTOR		WHITE	YELLOW	YELLOW/YELLOW	WHITE/RED	YELLOW/RED		
TOTALS CARRIED FROM PREVIOUS SHEET							737						737				
1	MUS	SR 284	5.96	8.42	GAP		160						160				EQ. 6.47BK=6.51AH DED 0.04 MILE
1	MUS	SR 284	8.42	8.47	11		7						7				PC 8.42 PT 8.47 L=264' DEG 5
1	MUS	SR 28R	8.47	8.51	11		6						6				PC 8.47 PT 8.51 L=211' DEG 6
1	MUS	SR 284	8.51	9.30	GAP		52						52				
1	MUS	SR 284	9.30	9.34	11		5						5				PC 9.30 PT 9.34 L=211' DEG 8
1	MUS	SR 284	9.34	9.36	GAP		1						1				
1	MUS	SR 284	9.36	9.40	11		5						5				PC 9.36 PT 9.40 L=211' DEG 8
1	MUS	SR 28R	9.40	9.45	11		7						7				PC 9.40 PT 9.45 L=264' DEG 8
1	MUS	SR 284	9.45	9.85	GAP		26						26				
1	MUS	SR 284	9.85	10.09	12		32						32				PC 9.97 PT 10.00 L=158' DEG 13 EQUATION 9.94BK=9.97AH DED 0.03 MILE
1	MUS	SR 284	10.09	10.25	GAP		11						11				
1	MUS	SR 28R	10.25	10.49	12		40						40				PC 10.34 PT 10.40 L=317' DEG 10
1	MUS	SR 284	10.49	10.59	GAP		7						7				
1	MUS	SR 284	10.59	10.78	12		31						31				PC 10.68 PT 10.72 L=211' DEG 19
1	MUS	SR 284	10.78	10.91	12		23						23				PC 10.78 PT 10.82 L=211' DEG 14
1	MUS	SR 284	10.91	10.97	GAP		4						4				
1	MUS	SR 28R	10.97	11.12	12		24						24				PC 11.06 PT 11.09 L=158' DEG 16
1	MUS	SR 284	11.12	11.24	12		20						20				PC 11.12 PT 11.15 L=158' DEG 13
1	MUS	SR 284	11.24	11.57	GAP		22						22				
1	MUS	SR 284	11.57	11.78	12		32						32				PC 11.66 PT 11.69 L=158' DEG 25
1	MUS	SR 284	11.78	11.89	12		19						19				PC 11.81 PT 11.84 L=158' DEG 22
1	MUS	SR 28R	11.89	11.98	12		18						18				PC 11.89 PT 11.94 L=264' DEG 11
1	MUS	SR 284	11.98	12.02	11		5						5				PC 11.98 PT 12.02 L=211' DEG 9
1	MUS	SR 284	12.02	12.21	12		29						29				PC 12.09 PT 12.12 L=158' DEG 16
1	MUS	SR 284	12.21	12.37	12		24						24				PC 12.26 PT 12.28 L=106' DEG 19
1	MUS	SR 284	12.37	12.93	GAP		37						37				
1	MUS	SR 28R	12.93	13.14	12		34						34				PC 13.02 PT 13.06 L=211' DEG 26
1	MUS	SR 284	13.14	13.24	12		19						19				PC 13.14 PT 13.18 L=211' DEG 12
1	MUS	SR 284	13.24	13.40	7		37						16				STOP AT SR 146, CENTERLINE 40' SPACE
TOTAL CARRIED TO GENERAL SUMMARY							1474						16			1458	

RPM DATA

MUS - 284 - 0.00



CALCULATED  
JLS  
CHECKED  
DMM

SHEET NUMBERS					ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET
2	3	5	6	8						
		142,255			422	10000	142,255	SQ. YD.	SINGLE CHIP SEAL	
63					614	12460	63	EACH	WORK ZONE MARKING SIGN	
	2				614	18601	2	SIGN-MNTH	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	4
		13.36			614	21400	13.36	MILE	WORK ZONE CENTER LINE, CLASS II	
				1,474	621	00100	1,474	EACH	RPM	
1,474					621	54000	1,474	EACH	RAISED PAVEMENT MARKER REMOVED	
			53.44		642	00100	53.44	MILE	EDGE LINE, TYPE 1	
			26.72		642	00300	26.72	MILE	CENTER LINE, TYPE 1	
					103	05000	LUMP		PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND	
LUMP					614	11000	LUMP		MAINTAINING TRAFFIC	
					623	10000	LUMP		CONSTRUCTION LAYOUT STAKES	
					624	10000	LUMP		MOBILIZATION	

**GENERAL SUMMARY**

**MUS - 284 - 0.00**

