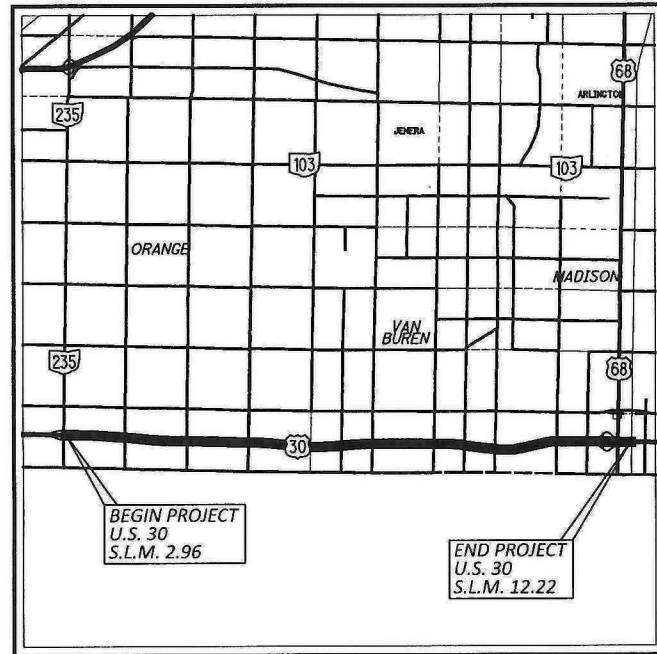


STATE OF OHIO DEPARTMENT OF TRANSPORTATION

HAN-30-2.96

ORANGE, VAN BUREN & MADISON TOWNSHIP
HANCOCK COUNTY



LOCATION MAP

LATITUDE: N 40°49'34" LONGITUDE: W 83°47'31"



PORTION TO BE IMPROVED	-----
INTERSTATE HIGHWAY	=====
FEDERAL ROUTES	-----
STATE ROUTES	-----
COUNTY & TOWNSHIP ROADS	-----
OTHER ROADS	-----

DESIGN DESIGNATION

CURRENT ADT (2020)	8661
DESIGN YEAR ADT (2043)	13500
DESIGN HOURLY VOLUME (2043)	1400
DIRECTIONAL DISTRIBUTION	50.8%
TRUCKS (24 HOUR B&C)	0.25
DESIGN SPEED	70 mph
LEGAL SPEED	70 mph
DESIGN FUNCTIONAL CLASSIFICATION:	
PRINCIPAL ARTERIAL (RURAL)	
NHS PROJECT	YES

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig

OHIO811.org
Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:
DISTRICT NO. 1
OHIO DEPARTMENT OF TRANSPORTATION

ENGINEER'S SEAL:

SIGNED: *Eric J. Schreckelhoff*
DATE: 2/19/2022

INDEX OF SHEETS:

TITLE SHEET	1
SCHEMATIC PLAN AND TYPICAL SECTIONS	2
GENERAL NOTES	3
MAINTENANCE OF TRAFFIC	4 - 9
GENERAL SUMMARY	10
ESTIMATED QUANTITIES	11 - 13

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/21/22	MT-101.90	7/17/20	800 SEE PROPOSAL	400 11/28/22
BP-9.1	1/18/19	MT-104.10	10/16/15	807 1/21/22	
		MT-105.10	1/17/20	808 1/18/19	
DM-4.3	1/15/16			821 4/20/12	
DM-4.4	1/15/16	TC-41.20	10/18/13	832 7/15/22	
		TC-42.20	10/18/13	850 4/15/22	
MT-95.30	7/19/19	TC-52.10	10/18/13	873 4/16/21	
MT-98.10	1/17/20	TC-52.20	1/15/21	905 4/17/20	
MT-98.11	1/17/20	TC-65.10	1/17/14	908 10/20/17	
MT-98.20	4/19/19	TC-65.11	7/15/22	921 4/20/22	
MT-98.22	1/17/20	TC-71.10	7/15/22	875 1/18/19	
MT-98.28	1/17/20	TC-72.20	7/20/18		
MT-98.29	1/17/20				
MT-98.30	7/16/21				
MT-99.20	4/19/19				
MT-101.60	1/17/20				

FEDERAL PROJECT NUMBER

E150(414)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

MILL AND PAVE 9.26 MILES OF U.S. 30 WITH ASPHALT CONCRETE AND PERFORM MINOR PAVEMENT REPAIRS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	N/A *
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	N/A *
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A *

* MAINTENANCE PROJECT

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES 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 EXCEPT AS NOTED ON SHEETS 7 THRU 9, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED *Christy A. Hughes*
DATE 02/10/2022 DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

DESIGN AGENCY

DESIGNER
GLI

REVIEWER
EJS 2-11-22

PROJECT ID
88833

SHEET TOTAL
1 13

HAN-30-2.96

TITLE SHEET

MODEL: Sheet PAPER SIZE: 17x11 (in.) DATE: 2/10/2022 TIME: 3:36:22 PM USER: ghwh
p:\ohiodot\p\w\benley.com\ohiodot\p\02\Documents\01 Active Projects\Dist\01 Hancock\88833\400-Engineering\Roadway\Sheets\88833_GTD01.dgn

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.

EXISTING PLANS

EXISTING PLANS ENTITLED "HAN-30-4.828(3.00) PID 12420" MAY BE INSPECTED IN THE ODOT DISTRICT 1 OFFICE IN LIMA, OH.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PROFILE AND ALIGNMENT

PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY AS SHOWN ON THE TYPICAL SECTIONS.

PIPE UNDERDRAINS

ANY PIPE UNDERDRAINS BROKEN OR DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE STATE.

EROSION CONTROL

THE QUANTITY BELOW HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR EROSION CONTROL.

ITEM 832 EROSION CONTROL = 1,000 EACH

CONTRACTOR'S EQUIPMENT - OPERATION AND STORAGE

IN ADDITION TO THE REQUIREMENTS OF SECTION 614.03(A) OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS THE FOLLOWING SHALL APPLY. THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAFFIC WHERE PRACTICAL. EXTREME CAUTION SHALL BE USED WHERE THE CONTRACTOR'S VEHICLES AND EQUIPMENT MERGE WITH THE TRAFFIC STREAM. THE CONTRACTOR'S VEHICLES AND EQUIPMENT SHALL BE EQUIPPED WITH AT LEAST ONE AMBER FLASHING LIGHT. CONSTRUCTION EQUIPMENT MAY BE PARKED IN AREA ALONG THE HIGHWAY, THIRTY FEET (30') FROM THE EDGE OF THE TRAVELED HIGHWAY UNLESS BEHIND GUARDRAIL, WHEN VARIOUS OPERATIONS ARE SCHEDULED TO CONTINUE THE NEXT WORKDAY. EQUIPMENT PARKED BEHIND THE GUARDRAIL SHALL BE AT LEAST 6 FEET FROM THE FACE OF THE GUARDRAIL. NO EQUIPMENT SHALL BE PARKED BEHIND A GUARDRAIL ATTENUATOR. ON WEEKENDS OR AT OTHER TIMES OF SUSPENSION OF WORK, EQUIPMENT SHALL BE STORED AT A STORAGE AREA REMOVED FROM THE INTERSTATE RIGHT OF WAY. NO EQUIPMENT SHALL BE PARKED IN THE MEDIAN OF THE HIGHWAY EXCEPT WHEN TRAFFIC IS MAINTAINED ON THE OUTSIDE LANES. ADEQUATE BARRICADES AND LIGHT 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 CONTACTOR'S STORAGE AREA.

ELECTRONIC TICKETING

PURPOSE

PROVIDE ELECTRONIC MATERIAL TICKETS IN A ELECTRONIC FORMAT DIRECTLY RECORDED FROM THE MATERIAL LOADING SOURCE.

PROVIDE ELECTRONIC MATERIAL TICKETS FOR THE FOLLOWING MATERIALS:

ASPHALT CONCRETE

THIS NOTE IN NO WAY SUPERSEDES ANY OTHER COMMERCIAL REGULATIONS OR ANY OTHER LEGAL REQUIREMENTS REGULATING THE TRANSPORTATION OF COMMERCIAL MATERIALS.

REQUIREMENTS

AT THE PRE-CONSTRUCTION MEETING, SUBMIT AN ELECTRONIC TICKETING PLAN TO THE ENGINEER DESCRIBING THE PROPOSED ELECTRONIC TICKET DELIVERY METHOD. THE ELECTRONIC MATERIAL TICKET SHALL CONTAIN INFORMATION AS REQUIRED PER THE APPLICABLE MATERIAL SPECIFICATION FOR WEIGHT MEASUREMENT AND OTHER MATERIAL CHARACTERISTICS; PROVIDE AN EXAMPLE(S) OR A "MOCK-UP" OF THE PROPOSED ELECTRONIC TICKET TO SHOW THE DETAILS ON WHAT IS TO BE TRANSMITTED TO THE DEPARTMENT. NAMING OF THE ELECTRONIC MATERIAL TICKET FILES SHALL BE DISTINCT SUCH THAT THE TICKET'S REPRESENTED MATERIAL IS EASILY DETERMINED; INCLUDE THE PROPOSED NAMING CONVENTION. DELIVERY MAY BE THROUGH A PRODUCER WEBSITE UPLOAD ACCESSIBLE TO THE ENGINEER, ODOT PROJECT SPECIFIC SHAREPOINT DOCUMENTATION SITE UPLOAD, OR ANOTHER SECURE ELECTRONIC TRANSMITTAL MEANS. EMAILING OF A TICKET TO A ODOT CONTACT IS ACCEPTABLE BUT IS NOT PREFERRED. THE ELECTRONIC TICKETING PLAN SHALL IDENTIFY A CONTINGENCY METHOD FOR MANUALLY CAPTURING AND DELIVERING TICKET INFORMATION IF ELECTRONIC TRANSMISSION IS TEMPORARILY UNAVAILABLE. AN ELECTRONIC TICKETING PLAN WHICH INCLUDES SOLELY THE USE OF DIGITAL PHOTOS OF PAPER TICKETS IS NOT ACCEPTABLE.

THE DEPARTMENT RECOGNIZES THAT VARIOUS DIGITAL TICKETING SYSTEMS MAY BE COMMERCIALY AVAILABLE AND USED TO ACCOMMODATE INDIVIDUAL CONTRACTORS AND MATERIAL SUPPLIER CAPABILITIES. THE CONTRACTOR MAY PROVIDE A DIGITAL TICKETING SYSTEM GIVING SECURE ACCESS TO ORGANIZED DIGITAL DATA. IF UTILIZED, THE DIGITAL TICKETING SYSTEM MAY ALSO BE ACCESSIBLE BY REAL-TIME MONITORING WITH A MOBILE COMMUNICATION DEVICE SUCH AS A TABLET, SMARTPHONE, ETC. THROUGH MOBILE DEVICE APPLICATIONS ("MOBILE APP") IF ACCEPTABLE TO THE DEPARTMENT. IF A DIGITAL TICKETING SYSTEM REQUIRES A MOBILE APP, THE MOBILE APP SHALL BE AT NO COST TO THE DEPARTMENT. THE DIGITAL DATA MUST BE ABLE TO BE EXPORTED IN A FORMAT USABLE BY THE ENGINEER UPON REQUEST (I.E. MICROSOFT WORD, MICROSOFT EXCEL, PDF FORMATS).

DELIVER EACH ELECTRONIC MATERIAL TICKET TO THE ENGINEER PRIOR TO THE PLACEMENT OF MATERIAL, BUT NOT PRIOR TO THE LOADING OF MATERIAL AT THE SOURCE.

PROVIDE THE ENGINEER A DAILY MATERIAL SUMMARY REPORT BY THE END OF THE DAY'S HAULING ACTIVITIES, OR AT A TIME AS APPROVED BY THE ENGINEER. THE DAILY MATERIAL SUMMARY REPORT INCLUDES SUMMARY INFORMATION LISTED FOR EACH MATERIAL AS OUTLINED IN THE RESPECTIVE MATERIAL SPECIFICATION.

PAYMENT

COSTS FOR THE ELECTRONIC TICKETING SHALL BE INCIDENTAL TO THE PROJECT.

ITEM 253 - PAVEMENT REPAIR

THE ESTIMATED QUANTITY BELOW HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER. IT IS ESTIMATED THE REPAIRS WILL BE APPROXIMATELY 6 INCHES DEEP AND WILL CONSIST OF LONGITUDINAL REPAIRS. THE ESTIMATED WIDTH OF THESE REPAIRS IS 4-6 FEET, THE ESTIMATED LENGTH OF REPAIRS IS 100 FEET. A SUMMARY OF ANTICIPATED LOCATIONS HAS BEEN PROVIDED IN THE "REFERENCE ONLY" SECTION ON THE OFFICE OF CONTRACTS WEBSITE, HOWEVER FINAL DIMENSIONS WILL BE AS DETERMINED IN THE FIELD. REPAIRS SHALL BE COMPLETED USING ITEM 301 ASPHALT CONCRETE BASE.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT REPAIR. PAYMENT WILL BE MADE AT THE UNIT PRICE BID PER CUBIC YARD OF ITEM 253 PAVEMENT REPAIR.

ITEM 253 PAVEMENT REPAIR = 600 CY

ITEM 617 - COMPACTED AGGREGATE, AS PER PLAN

THE QUANTITY FOR COMPACTED AGGREGATE WAS DETERMINED ASSUMING A WIDTH OF 2 FEET AND A AVERAGE THICKNESS OF 0.5". IN AREAS WHERE THE ELEVATION OF THE EXISTING BERM IS LESS THAN 0.5" FROM THE SHOULDER SURFACE, ADJUST THE THICKNESS AS NEEDED TO ENSURE POSITIVE DRAINAGE AWAY FROM THE PAVEMENT IS MAINTAINED.

ENVIRONMENTAL COMMITMENT

IN ORDER TO PROTECT ODOT POLLINATOR HABITAT SITES AND MITIGATION STREAMS, THE STAGING AND STORAGE OF EQUIPMENT AND MATERIALS SHALL NOT OCCUR AT THE US 30 AND US 68 INTERCHANGE/IN-FIELD AREAS.

ALTERNATE METHODS

IF THE CONTRACTOR SO ELECTS, THEY MAY SUBMIT ALTERNATE METHODS FOR MAINTENANCE OF TRAFFIC PROVIDED THE INTENT OF THE ABOVE PROVISIONS ARE FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THERE FROM. NO ALTERNATE PLAN SHALL BE PLACED INTO EFFECT UNTIL APPROVAL HAS BEEN GRANTED, IN WRITING, BY THE DISTRICT CONSTRUCTION ENGINEER.

PAVER MOUNTED THERMAL PROFILING

METHODS AND PROCEDURES FOR DETERMINING THE THERMAL PROFILE USING A PAVER-MOUNTED THERMAL IMAGING SYSTEM SHALL CONFORM TO THE SPECIFICATIONS FOUND IN SPECIAL PROVISION 400, PAVER MOUNTED THERMAL PROFILING.

ODOT OFFICE OF PAVEMENT ENGINEERING SHALL BE NOTIFIED AT LEAST TWO WEEKS PRIOR TO THE START OF PMTP DATA COLLECTION.

ALL LABOR, EQUIPMENT, SOFTWARE AND INCIDENTALS NECESSARY TO INSTALL THE EQUIPMENT AND ANALYZING THE DATA SHALL BE INCLUDED FOR PAYMENT WITH THE LUMP SUM BID FOR ITEM SPECIAL, PAVER MOUNTED THERMAL PROFILING (PMTP).

PERSONAL PROTECTIVE EQUIPMENT (PPE)

THE CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF SECTIONS XXIV AND XXXIV OF THE OHIO DEPARTMENT OF TRANSPORTATION SAFETY AND HEALTH STANDARD OPERATING PROCEDURE 220-006(SP) EFFECTIVE: NOVEMBER 1, 2018 (EXCEPT AS AMENDED BELOW) AND ALL SUBSEQUENT UPDATES POSTED AT THE FOLLOWING WEBSITE:

HTTP://WWW.DOT.STATE.OH.US/POLICY/POLICIESANDSOPS/POLICIES/220-006(SP).PDF

AMENDMENTS TO THE REQUIREMENTS OF THIS DOCUMENT ARE:

XXIV. HEAD PROTECTION (HARD HATS)
 ALL PERSONS WITHIN THE RIGHT-OF-WAY OF ANY HIGHWAY OR ANY OTHER TYPE OF ROADWAY OR CONSTRUCTION SITE WHO ARE EXPOSED TO EITHER TRAFFIC (VEHICLES USING THE HIGHWAY FOR PURPOSES OF TRAVEL) OR CONSTRUCTION EQUIPMENT WITHIN THE WORK AREA, REGARDLESS OF JOB TYPE, SHALL WEAR APPROPRIATE HEAD PROTECTION. ALL HARD HATS MUST MEET OR EXCEED ANSI Z89.1-2009 TYPE 1, CLASS E-G REQUIREMENTS.

XXXIV. SAFETY APPAREL AND VEST (HIGH VISIBILITY)
 ALL PERSONS WITHIN THE RIGHT-OF-WAY OF ANY HIGHWAY OR ANY OTHER TYPE OF ROADWAY OR CONSTRUCTION SITE WHO ARE EXPOSED TO EITHER TRAFFIC (VEHICLES USING THE HIGHWAY FOR PURPOSES OF TRAVEL) OR CONSTRUCTION EQUIPMENT WITHIN THE WORK AREA, REGARDLESS OF JOB TYPE, SHALL WEAR A HIGH-VISIBILITY SAFETY VEST THAT MEETS THE PERFORMANCE CLASS II OR CLASS III REQUIREMENTS OF THE ANSI/ISEA 107-2015 PUBLICATION ENTITLED "AMERICAN NATIONAL STANDARD FOR HIGH-VISIBILITY SAFETY APPAREL AND ACCESSORIES."

WORKERS MAY WEAR AN ANSI CLASS II OR ANSI CLASS III APPROVED RAIN SUIT, JACKET OR OTHER APPAREL WITHOUT A SAFETY VEST OVER IT.

ITEM 442, ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), PWL, 2023, AS PER PLAN

ALL REQUIREMENTS OF C&MS ITEM 442 APPLY EXCEPT AS SHOWN.

MAT DENSITY ACCEPTANCE - FOLLOW THE REQUIREMENTS OF 447 MAT DENSITY ACCEPTANCE, EXCEPT AS MODIFIED BELOW.

OBTAIN 6-INCH DIAMETER CORES FOR EACH LOT.

THE PWL CALCULATOR, LOCATED ON THE ODOT WEBSITE AT THE OFFICE OF CONSTRUCTION ADMINISTRATION, WILL BE USED TO DETERMINE THE LOT PWL AND THE LOT AASHTO PAY FACTORS.

THE DEPARTMENT WILL DETERMINE THE PAY FACTOR FOR EACH LOT CORED BY THE FOLLOWING TABLE.

LOWER SPECIFICATION LIMIT	PAY FACTOR CRITERIA	PAY FACTOR (PF)
92.6%	IF AVG. DENSITY IS > OR = TO 93% AND PWL IS > OR = TO 70	PF = 1 OR AASHTO PF WHICHEVER IS GREATER
	IF > 70 PWL > 50	AASHTO PF
	IF PWL < OR = TO 50	REMOVE AND REPLACE

DESIGN AGENCY



DESIGNER
GLI

REVIEWER
EJS 2-11-22

PROJECT ID
88833

SHEET TOTAL
3 | 13

**ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR)
FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS**

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL 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 FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP). IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TOMANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH INTERSECTIONS IN WORK ZONES. A RED LIGHT).

WHEN CONSTRUCTION VEHICLES ARE ENTERING/EXITING THE ZONE DIRECTLY FROM/INTO AN OPEN LANE OF TRAFFIC. IF A LANE HAS BEEN CLOSED TO PROVIDE AN ACCELERATION/ DECELERATION LANE FOR THE VEHICLE, THE LEO WILL NOT BE REQUIRED.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (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) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR
FOR ASSISTANCE 120 HOURS

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

**ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR)
FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONTIN.)**

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

PAVEMENT MARKING

PRIOR TO PLACEMENT OF ANY WORK ZONE PAVEMENT MARKINGS, THE CONTRACTOR SHALL COMPLETELY OBLITERATE, AS PER SPEC. 641.10, ALL EXISTING PAVEMENT MARKINGS THAT WOULD CREATE CONFUSION OR CONFLICT WITH THE WORK ZONE PAVEMENT MARKINGS. PAYMENT FOR THIS COMPLETE REMOVAL SHALL BE INCLUDED IN ITEM 614 MAINTAINING TRAFFIC, AS PER PLAN.

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, AS PER PLAN.

ITEM 614, REPLACEMENT DRUM

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF 50 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

WORK ZONE MARKINGS AND SIGNS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11.

ITEM 614 - WORK ZONE MARKING SIGNS	
NO EDGE LINE SIGNS	30 EACH
ITEM 614 - WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	18.56 MI
ITEM 614 - WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT	37.12 MI
ITEM 614 - WORK ZONE EDGE LINE, CLASS I, 6", 873	1.49 MI
ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	9,250 FT
ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	3,880 FT
ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 6", 873	7,840 FT

MAINTAINING TRAFFIC NEAR RUMBLE STRIPS

TRAFFIC IS NOT PERMITTED TO RUN OR CROSS OVER ANY RUMBLE STRIPS AT ANY TIME. RUMBLE STRIPS MUST BE FILLED WHEN THEY CONFLICT WITH THE MAINTENANCE OF TRAFFIC LANE CONFIGURATION. THIS INCLUDES LOCATIONS OF LANE SHIFTS ENTERING AND EXITING A WORK ZONE, AS WELL AS, CONFLICTING RUMBLE STRIPS AT THE ENTRANCE AND EXIT RAMPS. THE RUMBLE STRIPS SHALL BE FILLED TO PROVIDE A SMOOTH RIDE TO THE SATISFACTION OF THE PROJECT ENGINEER.

ONCE TRAFFIC IS RETURNED TO ITS FINAL LANE CONFIGURATION, RUMBLE STRIPS THAT WERE REMOVED IN ANY EXISTING PAVEMENT NOT BEING RESURFACED, SHALL BE RESTORED TO THE PRE-CONSTRUCTION CONDITION TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK DESCRIBED ABOVE SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

DESIGN AGENCY



DESIGNER
GLI


REVIEWER
EJS 2-11-22

PROJECT ID
88833

SHEET TOTAL
4 13

SHEET NUM.										PART.			ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE
3	4	5	6	11	12	13				01/NHS/PV			EXT	TOTAL			SHEET NO.	
EROSION CONTROL																		
1,000										1,000		832	30000	1,000	EACH	EROSION CONTROL		
PAVEMENT																		
600										600		253	02000	600	CY	PAVEMENT REPAIR		
				249,700	232,802					482,502		254	01000	482,502	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5" DEPTH		
				4,994	4,656					9,650		254	01600	9,650	SY	PATCHING PLANED SURFACE		
				21,224	19,788					41,012		407	20000	41,012	GAL	NON-TRACKING TACK COAT		
				10,404	9,700					20,104		442	00100	20,104	CY	ANTI-SEGREGATION EQUIPMENT		
				10,404	9,700					20,104		442	10311	20,104	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), PWL 2023, AS PER PLAN	3	
				666	666					1,332		617	10100	1,332	CY	COMPACTED AGGREGATE		
				18.56	18.56					37.12		618	40800	37.12	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)		
										LS		SPECIAL	69098400	LS		PAVER MOUNTED THERMAL PROFILING	3	
TRAFFIC CONTROL																		
										1,695		621	00100	1,695	EACH	RPM		
										1,695		621	54000	1,695	EACH	RAISED PAVEMENT MARKER REMOVED		
										0.2		644	00104	0.2	MILE	EDGE LINE, 6"		
										0.1		644	00204	0.1	MILE	LANE LINE, 6"		
										304		644	00500	304	FT	STOP LINE		
										1,110		644	00700	1,110	FT	TRANSVERSE/DIAGONAL LINE		
										28		644	01300	28	EACH	LANE ARROW		
										10		644	01382	10	EACH	WORD ON PAVEMENT, 48"		
										41.86		807	14010	41.86	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6"		
										18.56		807	14110	18.56	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"		
										14,056		807	14310	14,056	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12"		
										3,880		807	14410	3,880	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6"		
										60.42		850	10010	60.42	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)		
										3,880		850	10110	3,880	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)		
										14,056		850	10130	14,056	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)		
MAINTENANCE OF TRAFFIC																		
		120								120		614	11110	120	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		
		30								30		614	12460	30	EACH	WORK ZONE MARKING SIGN		
			58							58		614	12484	58	EACH	WORK ZONE INCREASED PENALTIES SIGN		
			5							5		614	12500	5	EACH	REPLACEMENT SIGN		
		50								50		614	12600	50	EACH	REPLACEMENT DRUM		
			6							6		614	18601	6	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	5	
		18.56								18.56		614	20056	18.56	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT		
		37.12								37.12		614	22056	37.12	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT		
		1.49								1.49		614	22326	1.49	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 873		
		9,250								9,250		614	23110	9,250	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT		
		3,880								3,880		614	24102	3,880	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT		
		7,840								7,840		614	24122	7,840	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 873		
				198						198		808	18700	198	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY		
INCIDENTALS																		
										LS		614	11000	LS		MAINTAINING TRAFFIC		
										LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING		
										LS		624	10000	LS		MOBILIZATION		

GENERAL SUMMARY

DESIGN AGENCY

 DESIGNER
 GLI
 REVIEWER
 EJS 2-11-22
 PROJECT ID
 88833
 SHEET TOTAL
 10 13

S.L.M.	DESCRIPTION	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	407	442	254	617	618			
								NON-TRACKING TACK COAT	ANTI-SEGREGATION EQUIPMENT	ASPHALT CONCRETE SURFACE COURSE, (447), AS PER PLAN, 1 1/2" THICKNESS	PAVEMENT PLANING, ASPHALT CONCRETE, 1 1/2" DEPTH	PATCHING PLANED SURFACE 2% PLANED AREA	COMPACTED AGGREGATE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
				FT	FT	SY	SY	GAL	CY	CY	SY	SY	CY	MILE	
MAINLINE U.S. 30 (EB)															
2.89	TO	11.99		48048.00	38.00	202869.33		17243.89	8452.89	8452.89	202869.33		4057.39	593.19	18.20
11.99		12.04	MAINLINE STRUCTURE OVER U.S. 68	264.00											
12.04		12.22		950.40	38.00	4012.80		341.09	167.20	167.20	4012.80		80.26	11.73	0.36
INTERCHANGE RAMPS															
			SR 235 EB ENTRANCE		VARIES		6022.85	511.94	250.95	250.95	6022.85		120.46	16.67	
			US 68 EB EXIT		VARIES		9411.08	799.94	392.13	392.13	9411.08		188.22	26.27	
			US 68 EB ENTRANCE		VARIES		8436.40	717.09	351.52	351.52	8436.40		168.73	17.96	
AT-GRADE INTERSECTIONS															
			TR 56												
				MEDIAN	VARIES		3479.38	295.75	144.97	144.97	3479.38		69.59		
				SOUTH OF U.S.30	VARIES		239.03	20.32	9.96	9.96	239.03		4.78		
			CR 12												
				MEDIAN	VARIES		3476.74	295.52	144.86	144.86	3476.74		69.53		
				SOUTH SIDE	VARIES		238.60	20.28	9.94	9.94	238.60		4.77		
			TR 61												
				MEDIAN	VARIES		3450.68	293.31	143.78	143.78	3450.68		69.01		
				SOUTH SIDE	VARIES		177.27	15.07	7.39	7.39	177.27		3.55		
			CR 9												
				MEDIAN	VARIES		3757.53	319.39	156.56	156.56	3757.53		75.15		
				SOUTH SIDE	VARIES		226.66	19.27	9.44	9.44	226.66		4.53		
			TR 68												
				MEDIAN	VARIES		3708.25	315.20	154.51	154.51	3708.25		74.17		
				SOUTH SIDE	VARIES		193.05	16.41	8.04	8.04	193.05		3.86		
SUBTOTALS								21224.47	10404.15	10404.15	249699.65		4993.99	665.81	18.56
TOTALS CARRIED TO GENERAL SUMMARY								21224	10404	10404	249700		4994	666	18.56

PAVEMENT SUBSUMMARY

DESIGN AGENCY

 DESIGNER
 GLI
 REVIEWER
 EJS 2-11-22
 PROJECT ID
 88833
 SHEET TOTAL
 11 13

S.L.M.	DESCRIPTION	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	407		442		254		617	618
								NON-TRACKING TACK COAT	ANTI-SEGREGATION EQUIPMENT	ASPHALT CONCRETE SURFACE COURSE, (447), AS PER PLAN, 1 1/2" THICKNESS	PAVEMENT PLANING, ASPHALT CONCRETE, 1 1/2" DEPTH	PATCHING PLANED SURFACE 2% PLANED AREA	COMPACTED AGGREGATE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
				FT	FT	SY	SY	GAL	CY	CY	SY	SY	CY	MILE	
MAINLINE U.S. 30 (WB)															
2.89	TO	11.99		48048.00	38.00	202869.33		17243.89	8452.89	8452.89	202869.33		4057.39	593.19	18.20
11.99		12.04	MAINLINE STRUCTURE OVER U.S. 68	264.00											
12.04		12.22		950.40	38.00	4012.80		341.09	167.20	167.20	4012.80		80.26	11.73	0.36
INTERCHANGE RAMP															
			SR 235 WB EXIT		VARIES		5633.71	478.87	234.74	234.74	5633.71		112.67	16.91	
			US 68 WB ENTRANCE		VARIES		11208.46	952.72	467.02	467.02	11208.46		224.17	24.88	
			US 68 WB EXIT		VARIES		8001.91	680.16	333.41	333.41	8001.91		160.04	19.25	
AT-GRADE INTERSECTIONS															
			TR 56		NORTH OF U.S. 30	VARIES	245.42	20.86	10.23	10.23	245.42		4.91		
			CR 12		NORTH OF U.S. 30	VARIES	228.27	19.40	9.51	9.51	228.27		4.57		
			TR 61		NORTH OF U.S. 30	VARIES	184.79	15.71	7.70	7.70	184.79		3.70		
			CR 9		NORTH OF U.S. 30	VARIES	210.19	17.87	8.76	8.76	210.19		4.20		
			TR 68		NORTH OF U.S. 30	VARIES	206.62	17.56	8.61	8.61	206.62		4.13		
SUBTOTALS								19788.13	9700.06	9700.06	232801.50		4656.03	665.96	18.56
TOTALS CARRIED TO GENERAL SUMMARY								19788	9700	9700	232802		4656	666	18.56

PAVEMENT SUBSUMMARY

DESIGN AGENCY



DESIGNER
GLI
 REVIEWER
EJS 2-11-22
 PROJECT ID
88833
 SHEET TOTAL
12 13