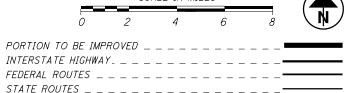
SEE SHEET 2 FOR ADDITIONAL LOCATIONS

LATITUDE: N 41° 4′ 2" LONGITUDE: W 83° 30′ 6"



COUNTY & TOWNSHIP ROADS	
DESIGN DESIGNATION	US 224
CURRENT ADT (2019)	8100
DIRECTIONAL DISTRIBUTION	0.53

TRUCKS (24 HOUR B&C)\_ \_ \_ \_ \_ \_ \_ \_ \_ 0.05 DESIGN SPEED \_ \_ \_ \_ \_ 55 mph LEGAL SPEED \_ \_ \_ \_ 55 mph

DESIGN FUNCTIONAL CLASSIFICATION:

MINOR ARTERIAL

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

# HAN/ALL/HAR-224/235/309-VAR.

Marion and Biglick Townships in Hancock County Bath and Auglaize Townships in Allen County Liberty, Marion, Cessna and Pleasant Townships in Hardin County

# INDEX OF SHEETS:

TITLE SHEET	1
LOCATION MAP	2
GENERAL NOTES	3 -
ASPHALT CONCRETE (RESURFACING)	6
ASPHALT CONCRETE (RUMBLE STRIPES ONLY)	7
PAVEMENT MARKING SUB-SUMMARY	8
INTERSECTION SUB-SUMMARY	9
GENERAL SUMMARY	10

# PROJECT DESCRIPTION

REHABILITATION OF 8.61 MILES OF ROADWAY ON US 224 IN HANCOCK COUNTY. REHABILITATE BY RESURFACING AND PLACING PAVEMENT MARKINGS.

ALSO ADD CENTERLINE RUMBLE STRIPES TO SR 309 IN ALLEN COUNTY AND TO SR 235 AND SR 309 IN HARDIN COUNTY. TOTAL CENTERLINE RUMBLE STRIPE PLACEMENT IS 21.92 MILES.

# EARTH DISTURBED AREAS

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

\* - (MAINTENANCE PROJECT)

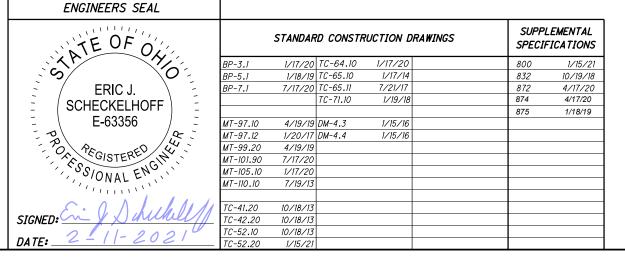
# 2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

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.



PLAN PREPARED BY: District One Ohio Department of Transportation Lima, Ohio



APPROVED \_ DIRECTOR, DEPARTMENT OF TRANSPORTATION



224/

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309-VAR HAR HAN

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#### PAVEMENT PREPARATION:

IN ADDITION TO THE REQUIREMENTS OD SPEC. 641.05, THE ITEM SHALL CONSIST OF REMOVING AND DISPOSING OF EXCESSIVE AMOUNTS OF LOSE OR FOREIGN MATERIAL FROM THE SURFACE TO BE MARKED TO THE SATISFACTION OF THE ENGINEER. THIS SHALL INCLUDE THE AREA AROUND THE SURFACE TO BE MARKED, THE ENTIRE AREA SHALL BE CLEANED, NOT JUST THE LINES TO BE MARKED. ALL WORK SHALL BE INCIDENTALTO 641.

## FLOODLIGHTING:

FLOODLIGHTING OF THE WORK SITE FOR ANY OPERATIONS CONDUCTED DURING NIGHTTIMEPERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE HIGHWAY. TO INSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK ZONE EACH NIGHT WHEN 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, MAINTANING TRAFFIC.

## DAMAGE CLAIMS:

IN ADDITION TO 107.10 AND 107.12 OF THE C&MS BOOK, THE FOLLOWING SHALL APPLY:

COPIES OF ALL DAMGE CLAIMS OR WRITTEN COMPLAINTS MADE AGAINST THE CONTRACTOR OR SUBCONTRACTOR RESULTING FROM FIELD PAINTING OF PAVEMENT MARKINGS SHALL BE PROVIDED TO THE ODOT DISTRICT CONSTRUCTION ENGINEER WITHIN SEVEN (7) DAYS RECIPT. THE CONTRACTOR SHALL RESPOND TO EACH CLAIM OR COMPLAINT IN A TIMELY MANNER, BUT IN NO CASE SHALL RESPONSE TAKE MORE THEN FIFTEEN (15) DAYS. A COPY OF THE RESPONSE SHALL BE PROVIDED TO THE ODOT DISTRICT CONSTRUCTION ENGINEER AT THE TIME IT IS SENT TO THE CLAIMANT OR COMPLAINTANT.

# GRINDING MATERIAL:

THE GRINDING MATERIAL SHALL BECME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE PAVED SURFACE OF THE ROADWAY.

#### PAVEMENT MARKINGS:

IN ADDITION TO THE STANDARD CONSTRUCTION DRAWINGS IN THE CMS, THE FOLLOWING ADDITIONAL CONDITIONS SHALL APPLY.

THE RUMBLE STRIPE SHALL BE DUST-FREE AND DRY WHEN THE PAVEMENT MARKINGS ARE APPLIED. PAVEMENT MARKINGS SHALL NOT BE PLACED OVER ANY PROPOSED CRACK SEALANT UNTIL THE SEALANT HAS CURED.

## RAISED PAVEMENT MARKERS:

THIS PROJECT CONTAINS EXISTING RAISED PAVEMNT MARKERS. THE CONTRACTOR IS CAUTIONED NOT TO PERMIT CRACK SEAL MATERIAL TO COVER THE REFLECTIVE ELEMENTS OF THE MARKERS. IF A REFLECTIVE ELEMENT IS COVERED IT SHALL BE REPLACED WITH A NEW REFLECTOR OF THE CORRECT TYPE AND COLOR WITHIN THREE WORKING DAYS. SUCH REPLACEMENT WILL BE ENTIRELY AT THE CONTRACTOR'S EXPENSE.

## **WORK ON STRUCTURES:**

THIS PROJECT CONTAINS STRUCTURES WHICH MAY HAVE CONCRETE APPROACH SLABS AND DECKS OR CONCRETE OVERLAYS. THE CONTRACTOR SHALL OMIT CRACK SEALING WORK ON THE CONCRETE PORTIONS OF THEESE STRUCTURES WITH THE EXCEPTION OF SEALING THE JOINT AT THE PAVEMENT AND APPROACH SLAB AND THE JOINT AT THE APPROACH SLAB AND BACKWALL, AS DIRECTED BY THE ENGINEER.

# PROGRESSION OF WORK:

FOLLOWING THE PLACEMENT OF THE CENTERLINE RUMBLE STRIPE AND PRIOR TO THE FOLLOWING THE PLACEMENT OF THE CENTERLINE ROMBLE STRIPE AND PRIOR TO THE PLACEMENT OF PAVEMENT MARKINGS, THE LONGITUDINAL, PAVEMENT JOINT ALONG THE CENTERLINE OF THE ROADWAY SHALL BE SEALED. CRACK SEALING SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF CMS 423. CARE SHALL BE EXERCISED NOT TO UNECESSARILY OBLITERATE EXISTING PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS. IN THE EVENT THAT EXISTING MARKINGS ARE OBLITERATED, THE CONTRACTOR SHALL ERECT THE NECESSARY WORK ZONE MARKING SIGNS AND INSTALL TEMPORARY PAVEMENT MARKINGS IN THOSE AREASC WHERE THE OBLITERATION HAS OCCURED PER THE REQUIREMENTS OF THE CONSTRUCTION DRAWINGS.

OBLITERATION MEANS ANY PERMANENT PAVEMENT MARKING TOTALLY COVERED OR COVERED TO THE EXTENT THAT THE REMAINING MARKINGS DO NOT PROVIDE GUIDANCE AS DETERMINED BY THE ENGINEER.

THE COSTS ASSOCIATED WITH THE REQUIREMENTS ABOVE SHALL BE CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE UNIT BID PRICE OF ITEM 423 CRACK SEALING, TYPE I.

UPON COMPLETION OF CRACK SEALING OPERATIONS ON EACH SECTION, THE CONTRACTOR SHALL INSTALL PERMANENT PAVEMENT MARKINGS AS PAID FOR IN THIS PLAN.

#### AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS:

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 25 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THE HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON TE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING FAA FORM 7460-1.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSABLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

Express Processing Center The Federal Aviation Administration Southwest Regional Office Air Traffice Airspace Branch ASW-520 2601 Meacham Blvd. Fort Worth, TX 76137-4298

Ohio Departmenty of Transportation Office of Aviation 2829 West Dublin-Granville Road Columbus, Ohio 43235 614-387-2346

# CONTACT INFORMATION:

COUNTY	COUNTY MANAGER	PHONE NO.
HANCOCK	DEIDRA NOEL	419-999-6731
HARDIN	CHRIS O'FLAHERTY	419-999-6742
ALLEN	JASON HOSCHAK	419-999-6711

# NOTE:

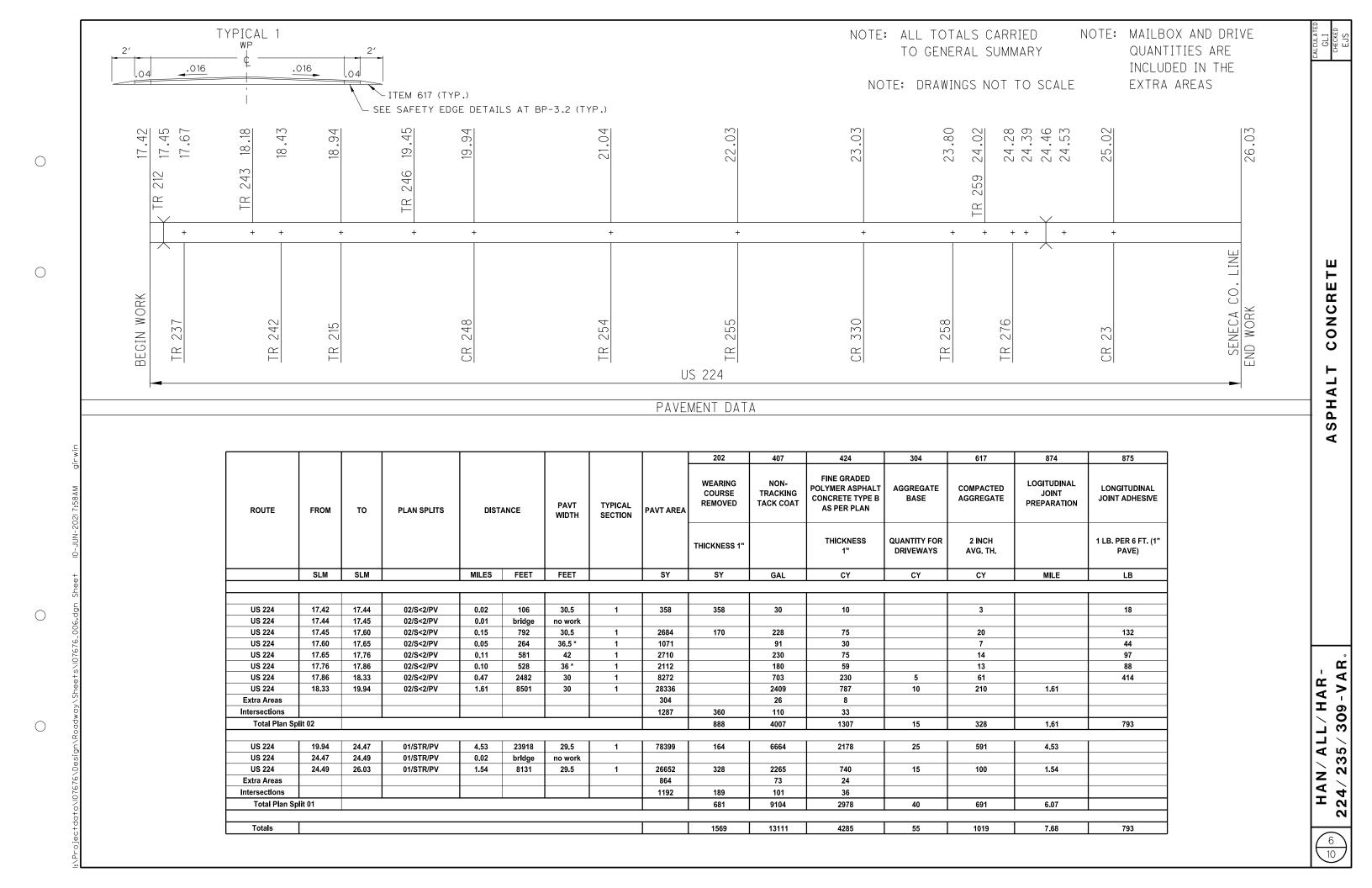
LOCATION POINTS (FROM & TO) ARE GIVEN IN STRAIGHT LINE MILEAGE (S.L.M.)

# ITEM 424, FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, AS PER PLAN

IF THE FOLLOWING CONDITIONS APPLY AND WHERE TRAFFIC IS ALLOWED TO CROSS THE EDGE OF THE NEW PAVEMENT LANE, THE CONTRACTOR DOES NOT NEED TO COMPLETE THE LONGITUDINAL JOINT OF THE ADJACENT LANE WITHIN 24 HOURS AS STATED IN CMS 401.17.

- 1. ALONG AREAS WITHIN THE PROJECT'S WORK LIMITS WERE ITEM 874, LONGITUDINAL JOINT PREPARATION IS SPECIFIED AND THE CONTRACTOR CHOSES TO USE METHOD 1 FOR ITEM 874, LONGITUDINAL JOINT PREPARATION.
- 2. THE DROP-OFF BETWEEN THE ADJACENT TRAVELED LANE IS LESS THAN OR EQUAL TO ONE AND A HALF INCHES (1 1/2") AND MEETS CONDITION 1 OF STANDARD CONSTRUCTION DRAWING
- 3. CONTRACTOR PROVIDES AND ERECTS THE APPROPRIATE SIGNS AS PER SCD MT-101.90. ALL COST ASSOCIATED FOR PROVIDING AND PLACING THE SIGNS SHALL BE INCIDENTAL TO THIS

THE ABOVE SHALL BE APPLIED PER THE APPROVAL AND TO THE SATISFACTION OF THE PROJECT ENGINEER.



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					202	407	424
INTERSECTION	PLAN SPLITS	SLM	SIDE	PAVT AREA	WEARING COURSE REMOVED	TACK COAT	FINE GRADED POLYMER ASPHALT CONCRETE TYPE B AS PER PLAN
					THICKNESS 1"		THICKNESS 1"
				SQ YD	SQ YD	GAL	CU YD
		•					
TR 212	02/S<2/PV	17.42	L	116.7	116.7	9.9	3.2
TR 237	02/S<2/PV	17.67	R	117.7	18.7	10.0	3.3
Eastern Woods	02/S<2/PV	17.76	L	138.1	65.1	11.7	3.8
Westwood Rd.	02/S<2/PV	17.87	R	92.1	16.1	7.8	2.6
Hickory Lane	02/S<2/PV	17.98	R	16.5	16.5	1.4	0.5
Hickory Lane	02/S<2/PV	18.06	R	34.3	12.1	2.9	1.0
TR 243	02/S<2/PV	18.18	L	135.7	19.3	11.5	3.8
TR 242	02/S<2/PV	18.34	R	89.6	14.1	7.6	2.5
TR 215	02/S<2/PV	18.94	R	107.7	16.1	9.2	3.0
TR 215	02/S<2/PV	18.94	L	92.8	14.7	7.9	2.6
TR 246	02/S<2/PV	19.45	L	139.5	18.7	11.9	3.9
CR 248	02/S<2/PV	19.94	R	102.4	16.7	8.7	2.8
CR 248	02/S<2/PV	19.94	L	103.6	14.7	8.8	2.9
Plan Split 02				1287	360	109	36
TR 254	01/STR/PV	21.04	R	119.2	18.1	10.1	3.3
TR 254	01/STR/PV	21.04	L	63.9	19.3	5.4	1.8
TR 255	01/STR/PV	22.03	R	100.5	14.7	8.5	2.8
TR 255	01/STR/PV	22.03	L	71.8	16.1	6.1	2.0
CR 330	01/STR/PV	23.03	R	128.5	18.7	10.9	3.6
CR 330	01/STR/PV	23.03	L	103.7	17.3	8.8	2.9
TR 258	01/STR/PV	23.77	R	128.2	15.3	10.9	3.6
TR 259	01/STR/PV	24.02	L	64.5	13.3	5.5	1.8
TR 276	01/STR/PV	24.28	R	56.9	13.3	4.8	1.6
CR 23	01/STR/PV	25.02	R	110.8	18.7	9.4	3.1
CR 23	01/STR/PV	25.02	L	244.3	24.1	20.8	6.8
Plan Split 01				1192	189	101	33
	ı						
Sub-Totals				2479	548	211	69

Intersection subtotals for HAN-224 carried to sheet 6.

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	SHEET NUM.				PART.			ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET	ALCULATED GLI CHECKED			
		3	6	7	8		01/STR/P	/ 02/S<2/P	/03/STR/01	04/S<2/01		EXT	TOTAL	01111	DECOMIN TON	NO.	CALC
															ROADWAY		-
			1,569				681	888			202	23500	1,569	SY	WEARING COURSE REMOVED		_
							3	1			623	39500	4	EACH	MONUMENT BOX ADJUSTED TO GRADE		_
															EROSION CONTROL		_
$\circ$							700	300			832	30000	1,000	EACH	EROSION CONTROL		_
															PAVEMENT		_
		150					73	77			253	02000	150	CY	PAVEMENT REPAIR		_
			55 13,111				40 9,103	15 4,008			304 407	20000 20000	55 13 <b>,</b> 111	CY GAL	AGGREGATE BASE NON-TRACKING TACK COAT		_
			4,285	25,341			2,978	1,307	24,034	1,307	423 424	00100 12001	25,341 4,285	LB CY	CRACK SEALING, TYPE I FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, AS PER PLAN	5	1
$\bigcirc$			1,019				691	328			617	10100	1,019	CY	COMPACTED AGGREGATE		A A
			,	21.92	15.36 7.68		12.14 6.07	3.22 1.61	20.79	1.13	618 618	41000 43000	15.36 29.6	MILE MILE	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE) RUMBLE STRIPES, CENTER LINE (ASPHALT CONCRETE)		] <b>▼</b>
			7.68	21,52	1.00		6.07	1.61	20.13	1.13	874	21000	7.68	MILE	LONGITUDINAL JOINT PREPARATION		M M A
			793					793			875	10000	793	LB	LONGITUDINAL JOINT ADHESIVE		รเ
															TRAFFIC CONTROL		ب ا
					583 583		401	182 182			621 621	00100 54000	583 583	EACH EACH	RPM RAISED PAVEMENT MARKER REMOVED		RA
					17.18 8.74		12.14 6.07	5.04 2.67			642 642	00104 00300	17.18 8.74	MILE MILE	EDGE LINE, 6", TYPE 1 CENTER LINE, TYPE 1		
				21.92					20.79	1.13	643	00300	21.92	MILE	CENTER LINE		GENE
<u>.</u> ⊆					268 37		24	268 13			643 643	00404 00500	268 37	FT FT	CHANNELIZING LINE, 12" STOP LINE		
∩ ×	<b>\$</b> = D				5		24	5			643	01300	5	EACH	LANE ARROW		1
Σ	E														MAINTENANCE OF TRAFFIC		-
17:58		104					59	25	15	5	614	12460	104		WORK ZONE MARKING SIGN		
N-202		8.61 17.22					6.09	2.52 5.04			614 614	21000 21400	8.61 17.22	MILE MILE	WORK ZONE CENTER LINE, CLASS I WORK ZONE CENTER LINE, CLASS II		_
UC-01															INCIDENTALS		_
+							LS	-			614	11000	LS		MAINTAINING TRAFFIC		-
Shee							LS				624	10000	LS		MOBILIZATION		
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