

UTILITIES

THERE ARE NO EXISTING UTILITY FACILITIES SHOWN ON THE PLANS, NOR ARE ANY EXISTING UTILITIES BEING RELOCATED FOR THE PROJECT. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY UTILITIES THAT MAY EXIST WITHIN THE WORK AREA. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY POTENTIAL UTILITY CONFLICTS, BY VISUAL INSPECTION AND BY CONTACTING THE OHIO UTILITIES PROTECTION SERVICE (OHIO 811) FOR FIELD MARKINGS OF THE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH THE OWNERS TO RESOLVE ALL UTILITY CONFLICTS PRIOR TO CONSTRUCTION OR, WITH THE APPROVAL OF THE PROJECT ENGINEER, THE CONTRACTOR SHALL ADJUST THE PROJECT CONSTRUCTION ACCORDINGLY, SO AS TO AVOID DAMAGE TO THE EXISTING UTILITY FACILITIES.

THE UTILITY CONTACT INFORMATION FOR THE PROJECT CAN BE OBTAINED THROUGH THE ODOT DISTRICT 9 UTILITY COORDINATOR AT 740-774-9075.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

PROFILE AND ALIGNMENT

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

EXTRA AREAS

QUANTITIES FOR EXTRA AREAS ARE SHOWN ON THE PAVEMENT CALCULATION SHEETS. THESE AREAS INCLUDE THE FOLLOWING:

- TURN LANE - FULL WIDTH OR AS DIRECTED BY THE ENGINEER
- MEDIAN CROSOVERS - AS DIRECTED BY THE ENGINEER
- OTHER DESIGNATED AREAS - AS DIRECTED BY THE ENGINEER

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

RPM (RAISED PAVEMENT MARKER)

IN ADDITION TO CMS 621.03, RPMS SHALL NOT BE INSTALLED ON BRIDGES OR APPROACH SLABS THAT HAVE A CONCRETE SURFACE. INSTALL RPMS IN ASPHALT CONCRETE BEFORE AND AFTER THE SUPERSTRUCTURE. RPMS LOCATED IN EXISTING CONCRETE BRIDGE DECKS OR APPROACH SLABS SHALL BE LEFT IN PLACE.

EXISTING PLANS

EXISTING PLANS ENTITLED SCI-23-2.63 AND SCI-728-1.65 MAY BE INSPECTED IN THE ODOT DISTRICT 9 OFFICE IN CHILLICOTHE, OHIO.

DISPOSAL OF ASPHALT GRINDINGS

ASPHALT GRINDINGS FROM THIS PROJECT ARE TO BECOME THE PROPERTY OF THE CONTRACTOR TO BE DISPOSED.

ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN - PLANING AT BUTT JOINTS

PLAN INTENT IS TO PROVIDE A SMOOTH RIDING PAVEMENT TRANSITION FROM PROPOSED PAVEMENT TYPICAL SECTION TO MEET THE EXISTING PAVEMENT OR BRIDGE APPROACHES AND DECK AND APPROXIMATE 0.50' ELEVATION TRANSITION IN THE PAVEMENT PROFILE IN ACCORDANCE WITH STANDARD DRAWING BP-3.1 DETAIL FOR "BUTT JOINT" EXCEPT THAT THE MINIMUM LENGTH OF THE BUTT JOINT SHALL BE 50 FOOT PER INCH OF PROPOSED OVERLAY. DEPTH OF PLANING IS VARIABLE FROM A MINIMUM OF 0.5" TO A MAXIMUM OF 0.75"

SEE SHEET 10 FOR ESTIMATED QUANTITY.

ITEM 617 - COMPACTED AGGREGATE

THE FOLLOWING ESTIMATED QUANTITY OF ITEM 617 - COMPACTED AGGREGATE HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE TO FILL ANY LOW BERM AREAS AS DESIGNATED BY THE ENGINEER.

ITEM 617 - COMPACTED AGGREGATE:	01/NHS/05: 75 CY
	02/STR/05: 100 CY
ITEM 209 - LINEAR GRADING:	01/NHS/05: 2.86 STA
	02/STR/05: 5.4 STA

ITEM 254 - PATCHING PLANED SURFACE

THE FOLLOWING ESTIMATED QUANTITY OF 20% OF THE PLANED SURFACE HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR PATCHING PLANED SURFACE AS DESIGNATED BY THE ENGINEER.

ITEM 254 - PATCHING PLANED SURFACE:	01/NHS/05: 62,592 SY
	02/STR/05 11,057 SY

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN

ALL CONSTRUCTION REQUIREMENTS OF 2023 CMS ITEM 253 SHALL APPLY.

THIS ITEM SHALL COMMENCE PRIOR TO RESURFACING. MATERIAL FOR REPAIR AREAS SHALL BE ITEM 301 ASPHALT CONCRETE BASE, PG64-22, (449) FOLLOWING APPLICATION OF ITEM 407 TACK COAT. REMOVE EXISTING SURFACE TO A UNIFORM DEPTH OF 9", TRIM AS NEEDED WHERE ROUNDED TO PROVIDE VERTICAL FACES ALONG THE PERIMETER OF THE REPAIR AREA. THOROUGHLY COMPACT ENTIRE AREA.

THE SMOOTHNESS OF ASPHALT REPAIRS CANNOT EXCEED 0.25" FROM THE TESTING EDGE OF A TEN FOOT STRAIGHTEDGE. THE CONTRACTOR IS REQUIRED TO PROVIDE STRAIGHTEDGE THAT IS SATISFACTORY TO THE ENGINEER. CORRECT VARIATIONS IN EXCESS OF SURFACE TOLERANCE BY THE RECONSTRUCTING REPAIRS OR SURFACE GRINDING IN A MANNER SATISFACTORY TO THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.

PAYMENT FOR ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED IN THE SQUARE YARD CONTRACT PRICE FOR ITEM 253 PAVEMENT REPAIR. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DESIGNATED BY THE ENGINEER,

ITEM 253, PAVEMENT REPAIR, AS PER PLAN	700 SY
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ITEM 252 - PAVEMENT SAWING	1,590 LF
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REPAIR LOCATED AT SCI 23 SLM 7.443 SB IN THE SHOULDER.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN (U.S. 23)

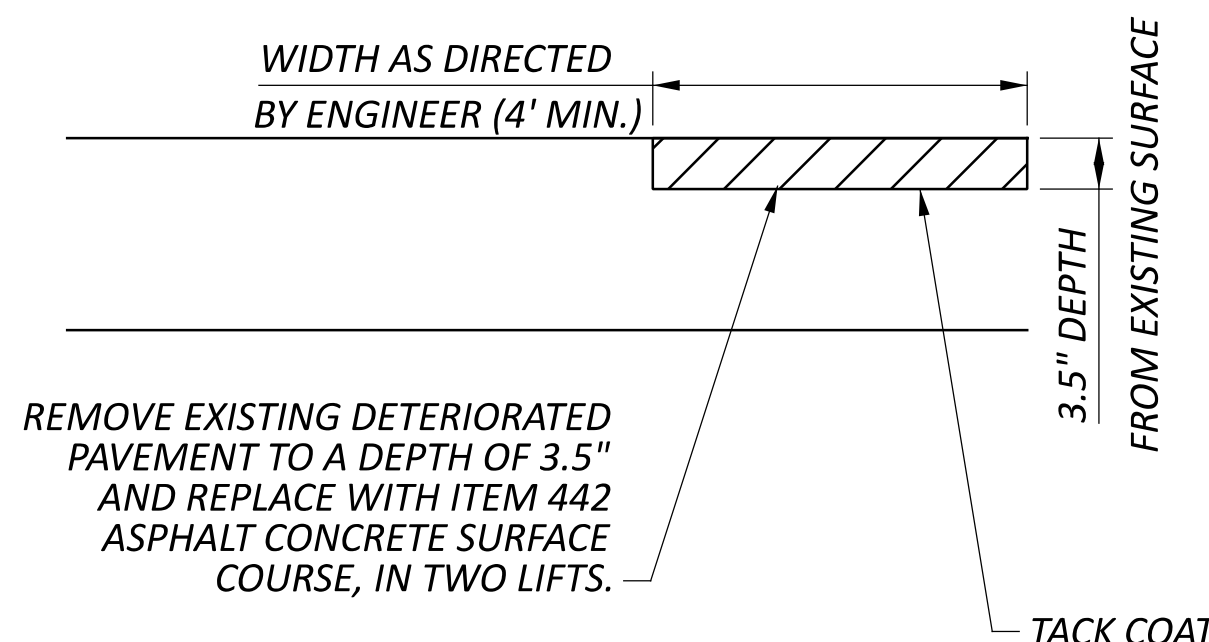
ALL CONSTRUCTION REQUIREMENTS OF 2023 CMS ITEM 251 SHALL APPLY.

THE MINIMUM DIMENSION FOR TRANSVERSE REPAIRS SHALL BE 4', THE MINIMUM FOR LONGITUDINAL REPAIRS SHALL BE 2'. THIS ITEM SHALL COMMENCE PRIOR TO RESURFACING. MATERIAL FOR REPAIR AREAS SHALL BE ITEM 442 SURFACE COURSE, 12.5 MM, TYPE A (448) FOLLOWING APPLICATION OF ITEM 407 TACK COAT. REMOVE EXISTING SURFACE TO A UNIFORM DEPTH OF 3.5", TRIM AS NEEDED WHERE ROUNDED TO PROVIDE VERTICAL FACES ALONG THE PERIMETER OF THE REPAIR AREA. THOROUGHLY COMPACT ENTIRE AREA.

THE SMOOTHNESS OF ASPHALT REPAIRS CANNOT EXCEED 0.25" FROM THE TESTING EDGE OF A TEN FOOT STRAIGHTEDGE. THE CONTRACTOR IS REQUIRED TO PROVIDE STRAIGHTEDGE THAT IS SATISFACTORY TO THE ENGINEER. CORRECT VARIATIONS IN EXCESS OF SURFACE TOLERANCE BY THE RECONSTRUCTING REPAIRS OR SURFACE GRINDING IN A MANNER SATISFACTORY TO THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.

PAYMENT FOR ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED IN THE SQUARE YARD CONTRACT PRICE FOR ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DESIGNATED BY THE ENGINEER,

ITEM 251, PARTIAL DEPTH REPAIR (442),	
AS PER PLAN	1,000 SY



ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441), AS PER PLAN (S.R 728)

ALL CONSTRUCTION REQUIREMENTS OF 2023 CMS ITEM 251 SHALL APPLY.

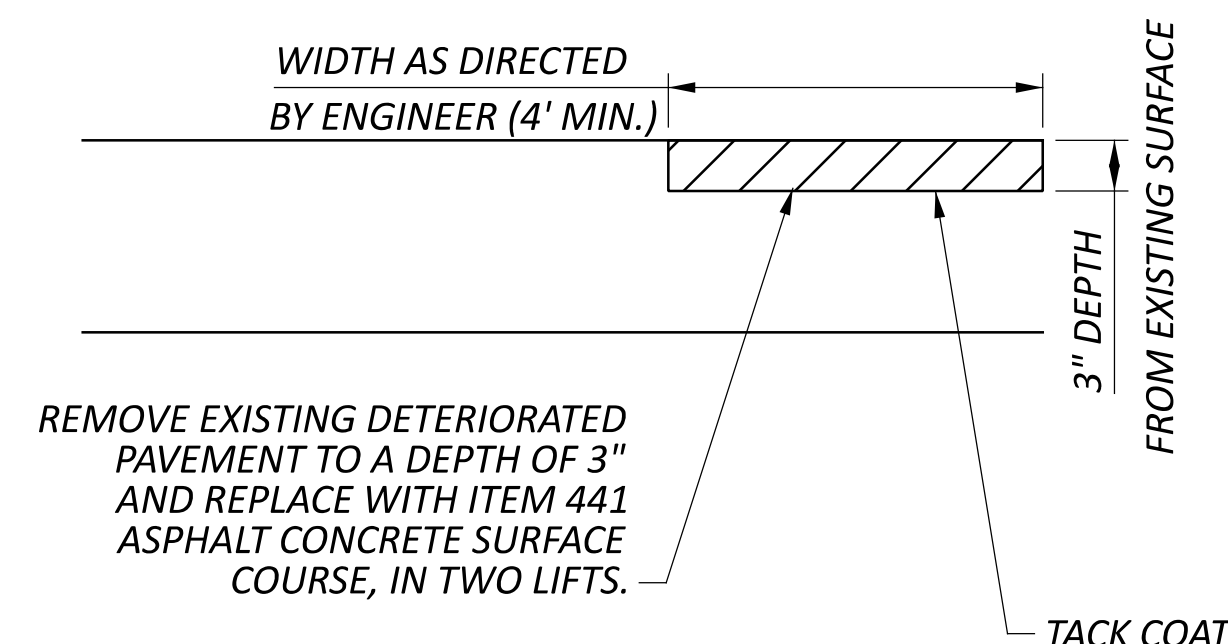
THE MINIMUM DIMENSION FOR TRANSVERSE REPAIRS SHALL BE 4', THE MINIMUM FOR LONGITUDINAL REPAIRS SHALL BE 2'. THIS ITEM SHALL COMMENCE PRIOR TO RESURFACING. MATERIAL FOR REPAIR AREAS SHALL BE ITEM 441 SURFACE COURSE, 12.5 MM, TYPE A (448) FOLLOWING APPLICATION OF ITEM 407 TACK COAT. REMOVE EXISTING SURFACE TO A UNIFORM DEPTH OF 3", TRIM AS NEEDED WHERE ROUNDED TO PROVIDE VERTICAL FACES ALONG THE PERIMETER OF THE REPAIR AREA. THOROUGHLY COMPACT ENTIRE AREA.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441), AS PER PLAN (S.R. 728), CONT'D

THE SMOOTHNESS OF ASPHALT REPAIRS CANNOT EXCEED 0.25" FROM THE TESTING EDGE OF A TEN FOOT STRAIGHTEDGE. THE CONTRACTOR IS REQUIRED TO PROVIDE STRAIGHTEDGE THAT IS SATISFACTORY TO THE ENGINEER. CORRECT VARIATIONS IN EXCESS OF SURFACE TOLERANCE BY THE RECONSTRUCTING REPAIRS OR SURFACE GRINDING IN A MANNER SATISFACTORY TO THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.

PAYMENT FOR ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED IN THE SQUARE YARD CONTRACT PRICE FOR ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR (441), AS PER PLAN. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DESIGNATED BY THE ENGINEER,

ITEM 251, PARTIAL DEPTH REPAIR (441),	
AS PER PLAN	500 SY



AIR SPEED ZONE MARKING

AIR SPEED ZONE MARKINGS SHALL BE WHITE AND 24 INCHES WIDE MEASURED IN THE DIRECTION OF TRAVEL AND 4 FEET IN LENGTH. ON TWO-LANE ROADWAYS WITH PAVED SHOULDERS LESS THAN 4 FEET IN WIDTH, THE AIR SPEED ZONE MARKINGS SHALL BE PLACED WITH 2 FEET ON EACH SIDE OF THE CENTER LINE OR EDGE LINE MARKINGS. WHEN PAVED SHOULDERS OF SUFFICIENT WIDTH ARE AVAILABLE. THE AIR SPEED ZONE MARKINGS SHALL BE PLACED ON THE SHOULDERS.

PLACE THE MARKINGS AT 0.25 MILE INTERVALS FOR OVER A 1 MILE LENGTH OF ROADWAY.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE MARKINGS LAID OUT BY A REGISTERED SURVEYOR. A RECORD IS TO BE KEPT AND ONE ORIGINAL SIGNED AND SEALED DOCUMENT IS TO BE SENT TO THE DISTRICT CONSTRUCTION ENGINEER.

MATERIALS, EQUIPMENT AND APPLICATION SHALL BE ACCORDING TO THE TYPE OF PAVEMENT MARKING MATERIAL USED.

PAYMENT SHALL BE ACCORDING TO THE PAVEMENT MARKING MATERIAL USED AND SHALL INCLUDE THE SURVEYING WORK. THE FIVE MARKINGS PLACED IN EACH 1 MILE OF ROADWAY SHALL EQUAL ONE ZONE. ONE ZONE SHALL BE MEASURED AS 1 EACH FOR AIR SPEED ZONE MARKINGS.


THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

ITEM 644 SPEED MEASUREMENT MARKING	2 EACH
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SHEET NUM.							PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5	6	7	10	11	12	16	01/NHS/05	02/STR/05						
ROADWAY														
5.72							LS		201	11000	LS		CLEARING AND GRUBBING	
							2.86	2.86	209	60200	5.72	STA	LINEAR GRADING	
EROSION CONTROL														
							1,000		832	30000	1,000	EACH	EROSION CONTROL	
PAVEMENT														
500								500	251	01001	500	SY	PARTIAL DEPTH PAVEMENT REPAIR (441), AS PER PLAN	5
1,000							1,000		251	01021	1,000	SY	PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN	5
1,590							1,590		252	01500	1,590	FT	FULL DEPTH PAVEMENT SAWING	
700							700		253	01001	700	SY	PAVEMENT REPAIR, AS PER PLAN	5
			310,235	2,727			312,962		254	01000	312,962	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 0.5"	
				55,285				55,285	254	01000	55,285	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 2"	
			178	5,780			3,924	2,034	254	01001	5,958	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, 0.5"	5
73,649							62,592	11,057	254	01600	73,649	SY	PATCHING PLANED SURFACE	
			26,370	4,931			26,602	4,699	407	10000	31,301	GAL	TACK COAT	
			8,618	76			8,694		424	14100	8,694	CY	FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, (449)	
			2,304					2,304	441	50100	2,304	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M	
150							75	75	617	10100	150	CY	COMPACTED AGGREGATE	
			15.5				15.5		618	40600	15.5	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
			3.88					3.88	618	41000	3.88	MILE	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)	
			1.94					1.94	618	43000	1.94	MILE	RUMBLE STRIPES, CENTER LINE (ASPHALT CONCRETE)	
			6	6			10	2	632	26500	12	EACH	DETECTOR LOOP	
				1.9				1.9	874	21000	1.9	MILE	LONGITUDINAL JOINT PREPARATION	
TRAFFIC CONTROL														
					1,488		1,196	292	621	00100	1,488	EACH	RPM	
					1,488		1,196	292	621	54000	1,488	EACH	RAISED PAVEMENT MARKER REMOVED	
					0.14			0.14	644	00300	0.14	MILE	CENTER LINE	
					106		106		644	00500	106	FT	STOP LINE	
					2,543		1,476	1,067	644	00700	2,543	FT	TRANSVERSE/DIAGONAL LINE	
					136		118	18	644	00900	136	SF	ISLAND MARKING	
					2			2	644	01110	2	EACH	SCHOOL SYMBOL MARKING, 96"	
					23			11	644	01300	23	EACH	LANE ARROW	
2							2		644	40000	2	EACH	SPEED MEASUREMENT MARKING	
					5,835.99		286	5,549.99	807	14310	5,835.99	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12"	
					0.68		0.68		807	12010	0.68	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6"	
					0.34		0.34		807	12110	0.34	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"	
					28.5		24.64	3.86	807	14010	28.5	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6"	
					14.72		14.36	0.36	807	14110	14.72	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"	
					11.35		7.49	3.86	807	14200	11.35	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CENTER LINE	
					11.35		7.49	3.86	850	10000	11.35	MILE	GROOVING FOR 4" RECESSED PAVEMENT MARKING, (ASPHALT)	
					43.22		39	4.22	850	10010	43.22	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
					1.02		1.02		850	20010	1.02	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)	
							1.11		850	10030	1.11	MILE	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	
MAINTENANCE OF TRAFFIC														
		70					70		614	11110	70	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
			29				19	10	614	12460	29	EACH	WORK ZONE MARKING SIGN	
			12				12		614	12484	12	EACH	WORK ZONE INCREASED PENALTIES SIGN	
			6				6		614	18601	6	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	8
			31.68				31.68		614	20560	31.68	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
			8.83				6.93	1.9	614	21550	8.83	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
			0.45				0.45		614	22210	0.45	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I	
			858				858		614	23690	858	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	
			2,400				2,400		614	24402	2,400	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 740.06, TYPE I	
5							5		616	10000	5	MGAL	WATER	
	72						72		808	18700	72	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	

GENERAL SUMMARY

DESIGN AGENCY

 DESIGNER: KDR
 REVIEWER: DMB
 PROJECT ID: 114769
 SHEET: P.8 TOTAL: 16