

CONTRACTION JOINTS IN CONCRETE PAVEMENT OR BASE WIDENING

WHERE NEW CONCRETE IS PLACED ADJACENT TO AND TIED TO EXISTING CONCRETE, THE CONTRACTION JOINT SPACING REQUIRED IN STANDARD CONSTRUCTION DRAWING BP-2.2 WILL BE WAIVED. CONSTRUCT CONTRACTION JOINTS IN THE NEW CONCRETE PAVEMENT TO FORM A CONTINUOUS LINE WITH ALL CONTRACTION JOINTS IN THE EXISTING CONCRETE PAVEMENT. INSTALL EXPANSION JOINTS IN THE NEW CONCRETE PAVEMENT TO FORM A CONTINUOUS LINE WITH ALL EXPANSION JOINTS IN THE EXISTING CONCRETE PAVEMENT.

EXISTING PLANS

EXISTING PLANS ENTITLED RIC/ASD-30-13.18/0.00 / RIC-42-13.74 MAY BE INSPECTED IN THE ODOT DISTRICT 3 OFFICE IN ASHLAND.

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET 153.

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING 6 HOUR

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

VEGETATED BIOFILTER

THIS PLAN UTILIZES VEGETATED BIOFILTER(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE PLANS TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. THE DITCH FOR EACH VEGETATED BIOFILTER SHALL BE TRAPEZOIDAL, AS SHOWN IN THE PLAN CROSS SECTIONS. PROVIDE ITEM 670 AS SPECIFIED IN THE PLANS.

ITEM 202. REMOVAL MISC.: BOLLARD REMOVED

THIS ITEM SHALL REMOVE THE EXISTING BOLLARDS ON THE WEST SIDE OF S.R. 603 (SOUTH) FROM STA. 245+33.42 TO 245+51.09. THE CONTRACTOR SHALL DISPOSE OF REMOVED ITEMS OFF THE PROJECT SITE.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

EXISTING SUBSURFACE DRAINAGE

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS OR AGGREGATE DRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE.

UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 601, TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT 4 SY
ITEM 611, 6" CONDUIT, TYPE F 50 FT
ITEM 611, PRECAST REINFORCED CONCRETE OUTLET 2 EACH
ITEM 605, 6" UNCLASSIFIED PIPE UNDERDRAINS 100 FT

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	35	0	35
30"	2	0	2

ITEM 630. GROUND MOUNTED SUPPORT, NO. 4 POST, AS PER PLAN

THIS ITEM SHALL BE AS PER C&MS 630, EXCEPT THE GROUND MOUNTED POST SUPPORT SHALL BE A SQUARE POST (TYPE S) AS DETAILED IN SCD TC-41.20.

CONCRETE PAVEMENT REPAIR

AFTER THE MILLING OPERATIONS HAVE BEEN COMPLETED THE CONTRACTOR AND ENGINEER SHALL VISUALLY INSPECT THE CONCRETE PAVEMENT, AND DETERMINE IF REPAIRS ARE NECESSARY. ANY AREAS REQUIRING REPAIR SHALL BE FIELD MARKED AND REPAIRED PER ITEM 255 IN THE 2019 ODOT CM&S. THE FOLLOWING QUANTITY IS CARRIED TO THE GENERAL SUMMARY TO COMPLETE ANY REPAIRS AND SHALL ONLY BE USED WHEN APPROVED BY THE ENGINEER:

ITEM 255 - FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS OC1 500 SY

ITEM 601. PAVED GUTTER, TYPE 1-4, AS PER PLAN

IN ADDITION TO THE INSTALLATION OF THE PROPOSED PAVED GUTTER AS PER C&MS 601, THIS ITEM SHALL ALSO INCLUDE REMOVAL OF THE EXISTING PAVED GUTTER WHERE IT CONFLICTS WITH THE INSTALLATION OF THE PROPOSED PAVED GUTTER.

REMOVAL SHALL INCLUDE REMOVING ALL EXISTING MATERIAL AND DISPOSING OF SAID MATERIAL OFF THE PROJECT SITE.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (442)

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO COMPLETE ANY PARTIAL PAVEMENT REPAIRS AND SHALL ONLY BE USED WHEN APPROVED BY THE ENGINEER:

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (442) 25 CY

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GENERAL NOTES

ASD-30-0.11

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160

INTERIM COMPLETION DATE

THE CONTRACTOR SHALL HAVE PHASE 1 AND 2 COMPLETE BY NOVEMBER 15, 2021. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$2500 PER DAY FOR EACH CALENDAR DAY THAT PHASE 1 OR 2 EXTENDS PAST THIS DATE.

SEQUENCE OF CONSTRUCTION

THIS PROJECT WILL BE COMPLETED IN FOUR CONSTRUCTION PHASES. A MINIMUM OF ONE LANE IN EACH DIRECTION WILL BE MAINTAINED ON U.S. 30 AT ALL TIMES.

PHASE 1 (45 DAYS) - SHEETS 23-27

THIS PHASE SHALL CONSTRUCT THE LEFT TURN LANES/U-TURN LANES ON U.S. 30.

THE EASTBOUND AND WESTBOUND LEFT LANES U.S. 30 SHALL BE CLOSED WITHIN THE PROJECT LIMITS. PORTABLE BARRIER SHALL BE PLACED ALONG THE WORK AREAS AT EACH LEFT TURN LANE/U-TURN LOCATION. DRUMS SHALL BE UTILIZED TO KEEP THE LEFT LANES CLOSED BETWEEN WORK AREAS. THE CONTRACTOR SHALL KEEP THE DRUMS PULL BACK IN THE S.R. 603 INTERSECTION TO AVOID SIGHT DISTANCE OBSTRUCTIONS FOR S.R. 603 TRAFFIC.

PHASE 2 (45 DAYS) - SHEETS 28-32

THIS PHASE SHALL CONSTRUCT THE EASTBOUND LOON AND PARTIALLY CONSTRUCTION THE WESTBOUND LOON/RIGHT TURN LANE.

THE EASTBOUND AND WESTBOUND RIGHT LANES ON U.S. 30 SHALL BE CLOSED WITHIN THE PROJECT LIMITS. PORTABLE BARRIER SHALL BE PLACED ALONG THE WORK AREAS AT EACH LOON LOCATION.

DRUMS SHALL BE PLACED ADJACENT TO THE EXISTING EDGE LINE AT EACH LEFT TURN LANE AND U-TURN LANE. THESE AREAS SHALL REMAIN CLOSED TO TRAFFIC UNTIL PHASE 4.

WORK MAY BEGIN ON THE RELOCATED SOUTH LEG OF THE S.R. 603 WHILE MAINTAINING ALL EXISTING MOVEMENTS AND TURN LANES TO AND FROM THE SOUTH LEG OF THIS INTERSECTION. ONE-LANE, TWO-WAY OPERATION WITH FLAGGERS ON S.R. 603 IS PERMITTED DURING ACTIVE WORKING HOURS. FLAGGING OPERATIONS SHALL BE AS PER TA-10 OF THE ODOTCD. THE CONTRACTOR SHALL NOT ALLOW SOUTHBOUND TRAFFIC TO QUEUE ONTO U.S. 30 WHEN STOPPED FOR NORTHBOUND TRAFFIC. ROADWAY SHALL BE RESTORED TO TWO LANES DURING NON-WORKING HOURS.

OVER-WINTER (NO PLAN SHEETS PROVIDED)

ALL ROADS SHALL BE OPEN TO TRAFFIC AND NO WORK PERFORMED BETWEEN NOVEMBER 1, 2021 AND MARCH 15, 2022. THE OVER-WINTER SET UP SHALL BE AS FOLLOWS:

- ALL LANES ON U.S. 30 SHALL BE OPEN TO TRAFFIC
- WORK ZONE PAVEMENT MARKINGS SHALL BE PLACED TO RESTORE U.S. 30 LANES TO THEIR EXISTING CONFIGURATION AFTER PHASE 2.
- S.R. 603 SHALL BE FULLY OPEN TO TRAFFIC WITH ALL TURNING MOVEMENTS MAINTAINED AT THE INTERSECTION

OVER-WINTER CONT'D (NO PLAN SHEETS PROVIDED)

- BEFORE OPENING U.S. 30 TO TRAFFIC FOR THE OVER-WINTER PHASE, ALL PAVEMENT JOINTS AT LOCATIONS WHERE NEW PAVEMENT INSTALLED IN PHASES 1 AND 2 MEETS EXISTING PAVEMENT SHALL BE WEDGED WITH HOT MIX ASPHALT CONCRETE OF THE MIX TYPE USED IN THE TOP-MOST LIFT OF NEW ASPHALT PAVEMENT ADJACENT TO THE JOINT. THE WIDTH OF THIS WEDGE SHALL BE 1 FOOT, ALTHOUGH THE TAPER RATE WILL VARY BASED ON THE DIFFERENCE IN ELEVATION BETWEEN EXISTING AND NEW PAVEMENT. PHASES 1 AND 2 WILL NOT BE CONSIDERED COMPLETE UNTIL THIS PAVEMENT WEDGE IS INSTALLED AND ACCEPTED BY THE ENGINEER.

PAYMENT FOR THIS WORK WILL BE AT THE CONTRACT UNIT PRICE FOR ASPHALT CONCRETE FOR MAINTAINING TRAFFIC - 10 CU YD.

PHASE 3A (45 DAYS) - SHEETS 33-37

THIS PHASE SHALL NOT OCCUR BETWEEN MEMORIAL DAY AND LABOR DAY.

THIS PHASE SHALL CONSTRUCT THE SOUTH S.R. 603 APPROACH.

CLOSE THE RIGHT LANE OF U.S. 30 EASTBOUND EAST OF CHARLES MILL RESERVOIR AND CLOSE THE SOUTH LEG OF S.R. 603 TO COMPLETE THE REALIGNMENT OF THIS APPROACH. PORTABLE BARRIER SHALL BE UTILIZED FOR THE LANE CLOSURE. THE DETOUR FOR THIS APPROACH OF S.R. 603 SHALL BE AS SHOWN ON SHEETS 19-20.

PHASE 3B (45 DAYS) - SHEETS 38-42

THIS PHASE SHALL CONSTRUCT THE REMAINING SECTION OF THE WESTBOUND RIGHT TURN LANE AND THE NORTH APPROACH TO S.R. 603

CLOSE THE WESTBOUND RIGHT LANE OF U.S. 30 AS REQUIRED TO CONSTRUCT THE LOON, RIGHT TURN LANE AND EXCAVATION. PORTABLE BARRIER SHALL BE REQUIRED FOR THIS LANE CLOSURE. THE WORK ON THE NORTH APPROACH TO S.R. 603 SHALL BE COMPLETED IN THIS PHASE. THE NORTH LEG OF S.R. 603 SHALL BE CLOSED DURING THIS PHASE. SEE SHEETS 21-22 FOR DETOUR. ALL MOVEMENTS TO AND FROM THE SOUTH LEG SHALL BE MAINTAINED.

OPEN THE SOUTH LEG OF S.R. 603. THIS LEG OF THE INTERSECTION WILL NOW OPERATE AS A RIGHT-IN/RIGHT-OUT. TRAFFIC SHALL BE DETOURED AS SHOWN SHEET 21-22.

PHASE 4 (30 DAYS) - SHEETS 43-47

THIS PHASE SHALL REMOVE THE EXISTING PAVEMENT FROM THE MEDIAN AREA.

BOTH S.R. 603 APPROACHES SHALL BE OPENED AND THE PROPOSED RCUT SHALL BE COME OPERATIONAL. ALL PERMANENT SIGNING AND PAVEMENT MARKINGS NECESSARY FOR THE RCUT OPERATION SHALL BE INSTALLED PRIOR TO THIS PHASE.

ONCE THE MEDIAN WORK IS COMPLETE, THE BARRIER SHALL BE REMOVED. ALL REMAINING ASPHALT WORK SHALL BE COMPLETED. THIS WORK SHALL BE COMPLETED ONE LANE AT A TIME WHILE MAINTAINING A MINIMUM ONE LANE OF TRAFFIC IN EACH DIRECTION. LANE CLOSURES SHALL BE AS PER THE PERMITTED LANE CLOSURE CHART. FINAL PAVEMENT MARKINGS SHALL BE INSTALLED AFTER THE FINAL SURFACE COURSE IS PLACED.

WORK ZONE MARKINGS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE MAINTENANCE OF TRAFFIC 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 LANE LINE, CLASS III, 6", 642 PAINT --- 1.63 MI

ITEM 614, WORK ZONE CENTER LINE, CLASS III, 642 PAINT --- 0.13 MI

ITEM 614, WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT --- 2.16 MI

ITEM 614, WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT --- 2864 FT

ITEM 614, WORK ZONE DOTTED LINE, CLASS III, 6", 642 PAINT --- 1341 FT

ITEM 614, WORK ZONE STOP LINE, CLASS III, 642 PAINT --- 38 FT

ITEM 614, WORK ZONE ARROW, CLASS III, 642 PAINT --- 14 EACH

ITEM 614, WORK ZONE PAVEMENT MARKING, MISC.: U-TURN ARROW, CLASS III --- 9 EACH

ITEM 614, WORK ZONE PAVEMENT MARKING, MISC.: YIELD LINE, CLASS III --- 37 FT

WORK ZONE MARKINGS - REMOVABLE TAPE

THE ADJACENT ASD-30-0.27 (PID 87729) PAVING PROJECT WILL BE CONSTRUCTED CONCURRENTLY WITH THIS PROJECT. IF THE FINAL COURSE FOR THIS PAVING PROJECT HAS BEEN PLACED, THE CONTRACTOR SHALL UTILIZE REMOVABLE TAPE (740.06, TYPE I) WORK ZONE MARKINGS IN LIEU 642 PAINT ON PAVEMENT EAST OF STA. 15+77.00 (S.L.M. 0.30).

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED AND CARRIED TO GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 614, WORK ZONE LANE LINE, CLASS I, 6", 740.06, TYPE I --- 0.43 MI

ITEM 614, WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I --- 1.23 MI

ITEM 614, WORK ZONE CHANNELIZING LINE, CLASS I, 12", 740.06, TYPE I --- 135 FT

ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 6", 740.06, TYPE I --- 1,440 FT

ITEM 614, WORK ZONE ARROW, CLASS I, 740.06, TYPE I --- 2 EACH

ITEM 614, WORK ZONE INCREASED PENALTIES SIGN (R11-H5A)

R11-H5A-48 SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED IN GOOD CONDITION AND/OR REPLACED AS NECESSARY AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. SIGNS SHALL BE MOUNTED AT THE APPROPRIATE OFFSETS AND ELEVATIONS AS PRESCRIBED BY THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THEY SHALL BE MAINTAINED ON SUPPORTS MEETING CURRENT SAFETY CRITERIA.

THE SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE CONSECUTIVE CALENDAR DAYS, SUCH AS DURING WINTER SHUT-DOWNS.

THE R11-H5A-48 SIGNS SHALL BE MOUNTED ON 2 NO. 3 POSTS WHEN LOCATED WITHIN CLEAR ZONES.

THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD, CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS. SIGN FACES SHALL BE RETROREFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF C&MS 730.19.

WORK ZONE INCREASED PENALTIES SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGN AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION AS DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE, IN PLACE WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK, AND REMOVAL OF THE SIGN AND SUPPORT.

ITEM 614, WORK ZONE INCREASED PENALTIES SIGN 4 EACH

WORK ZONE INCREASED PENALTIES SIGNS WILL BE PLACED AT THE LOCATIONS AS SHOWN IN THE PLANS

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MAINTENANCE OF TRAFFIC GENERAL NOTES

ASD-30-0.11

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SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
9	10	53	108	153	OFFICE CALCS	01/NHS/OT													
																ROADWAY			
																CLEARING AND GRUBBING			
											LS			201	11000	LS			
											35			201	21800	35	EACH	TREE REMOVED, 18"	
											2			201	23000	2	EACH	TREE REMOVED, 30"	
												1		202	20010	1	EACH	HEADWALL REMOVED	
													9,673	202	23000	9,673	SY	PAVEMENT REMOVED	
												1,167		202	35100	1,167	FT	PIPE REMOVED, 24" AND UNDER	
												1,021		202	38000	1,021	FT	GUARDRAIL REMOVED	
												5		202	58100	5	EACH	CATCH BASIN REMOVED	
												119		202	75000	119	FT	FENCE REMOVED	
												3		202	98100	3	EACH	REMOVAL MISC.: BOLLARD REMOVED	10
													46,811	203	10000	46,811	CY	EXCAVATION	
													8,335	203	20000	8,335	CY	EMBANKMENT	
														204	10000	11,780	SY	SUBGRADE COMPACTION	
													514	204	13000	514	CY	EXCAVATION OF SUBGRADE	
													514	204	30010	514	CY	GRANULAR MATERIAL, TYPE B	
												6		204	45000	6	hour	PROOF ROLLING	
												1,975		606	15050	1,975	FT	GUARDRAIL, TYPE MGS	
												1		606	26150	1	EACH	ANCHOR ASSEMBLY, MGS TYPE E, NCHRP 350/MASH 2016	
												2		606	26550	2	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
												6		607	15100	6	FT	FENCE, TYPE 47RA	
														623	38500	3	EACH	MONUMENT ASSEMBLY	
														623	40500	4	EACH	REFERENCE MONUMENT	
																		EROSION CONTROL	
												4		601	21050	4	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
												650		601	38001	650	FT	PAVED GUTTER, TYPE 1-4, AS PER PLAN	10
											2			659	00100	2	EACH	SOIL ANALYSIS TEST	
											3,585	217		659	00300	3,802	CY	TOPSOIL	
													32,296	659	10000	32,296	SY	SEEDING AND MULCHING	
												1,615		659	14000	1,615	SY	REPAIR SEEDING AND MULCHING	
												1,615		659	15000	1,615	SY	INTER-SEEDING	
												4.5		659	20000	4.5	TON	COMMERCIAL FERTILIZER	
												6.67		659	31000	6.67	ACRE	LIME	
												179		659	35000	179	MGAL	WATER	
												827		670	00700	827	SY	DITCH EROSION PROTECTION	
												LS	LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
												LS	LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
												LS	LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
												40,624	40,624	832	30000	40,624	EACH	EROSION CONTROL	
												1,132		836	10000	1,132	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	
																		DRAINAGE	
												0.33		602	20000	0.33	CY	CONCRETE MASONRY	
												2,507		605	11100	2,507	FT	6" SHALLOW PIPE UNDERDRAINS	
												100		605	13300	100	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
												3,585		605	14000	3,585	FT	6" BASE PIPE UNDERDRAINS	
											125			605	31100	125	FT	AGGREGATE DRAINS	
												98		611	00510	98	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
												50		611	01500	50	FT	6" CONDUIT, TYPE F	
												282		611	04400	282	FT	12" CONDUIT, TYPE B	
												370		611	05900	370	FT	15" CONDUIT, TYPE B	
												349		611	06100	349	FT	15" CONDUIT, TYPE C	
												675		611	07600	675	FT	18" CONDUIT, TYPE C	
												4		611	98410	4	EACH	CATCH BASIN, NO. 8	
												1		611	98470	1	EACH	CATCH BASIN, NO. 2-2B	
												2		611	99654	2	EACH	MANHOLE ADJUSTED TO GRADE	
												2		611	99710	4	EACH	PRECAST REINFORCED CONCRETE OUTLET	

CALCULATED	DTS	CHECKED	MDW
GENERAL SUMMARY			
ASD - 30 - 0.11			
48			
160			

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SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
10	53	122	124	146	147	OFFICE CALCS	01/NHS/OT											
																PAVEMENT		
	25						25				251	01030	25	CY	PARTIAL DEPTH PAVEMENT REPAIR (442)			
							5,608	5,608			252	01500	5,608	FT	FULL DEPTH PAVEMENT SAWING			
							8,560	8,560			254	01000	8,560	SY	PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE DEPTH			
	500						500	500			255	10010	500	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS OC1			
							314	314			301	46000	314	CY	ASPHALT CONCRETE BASE, PG64-22			
							2,820	2,820			304	20000	2,820	CY	AGGREGATE BASE			
							9,631	9,631			305	13010	9,631	SY	9" CONCRETE BASE, CLASS OC IP			
							3,107	3,107			407	10000	3,107	GAL	TACK COAT			
							1,118	1,118			442	10000	1,118	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)			
							1,209	1,209			442	10100	1,209	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)			
							277	277			609	26000	277	FT	CURB, TYPE 6			
							184	184			609	54000	184	SY	6" CONCRETE TRAFFIC ISLAND			
							21	21			617	10100	21	CY	COMPACTED AGGREGATE			
							1.53	1.53			618	40600	1.53	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)			
																LIGHTING		
							18	18			625	00450	18	EACH	CONNECTION, FUSED PULL APART			
							6	6			625	00451	6	EACH	CONNECTION, FUSED PULL APART, AS PER PLAN	145		
							15	15			625	00480	15	EACH	CONNECTION, UNFUSED PERMANENT			
							4	4			625	10490	4	EACH	LIGHT POLE, CONVENTIONAL, DESIGN AT15B40			
							5	5			625	10490	5	EACH	LIGHT POLE, CONVENTIONAL, DESIGN AT18B40			
							3	3			625	14001	3	EACH	LIGHT POLE FOUNDATION, 24" X 6" DEEP, AS PER PLAN	145		
							9	9			625	14100	9	EACH	LIGHT POLE FOUNDATION, 24" X 8" DEEP			
							8,379	8,379			625	23302	8,379	FT	NO. 6 AWG 2400 VOLT DISTRIBUTION CABLE			
							1,020	1,020			625	23400	1,020	FT	NO. 10 AWG POLE AND BRACKET CABLE			
							2,142	2,142			625	25300	2,142	FT	CONDUIT, 1-1/2", 725.04			
							171	171			625	25500	171	FT	CONDUIT, 3", 725.04			
							280	280			625	25902	280	FT	CONDUIT, JACKED OR DRILLED, 725.04, 3"			
							14	14			625	26253	14	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, IES-III-M, LED, 13,000-15,500 LUMENS	145		
							2,313	2,313			625	29000	2,313	FT	TRENCH			
							2	2			625	30700	2	EACH	PULL BOX, 725.08, 18"			
							6	6			625	30706	6	EACH	PULL BOX, 725.08, 24"			
							4	4			625	31510	4	EACH	PULL BOX REMOVED			
							14	14			625	32000	14	EACH	GROUND ROD			
							1	1			625	34001	1	EACH	POWER SERVICE, AS PER PLAN	145		
							3	3			625	35011	3	EACH	REMOVE AND REERECT EXISTING LIGHT POLE, AS PER PLAN	145		
							2,313	2,313			625	36010	2,313	FT	UNDERGROUND WARNING/MARKING TAPE			
							1	1			625	39520	1	EACH	PULL BOX CLEANED			
					LS		LS	LS			SPECIAL	62540000	LS		MAINTAIN EXISTING LIGHTING	146		
					2		2	2			SPECIAL	62540010	2	EACH	REPLACEMENT OF EXISTING LIGHTING UNIT	146		
					1		1	1			625	75401	1	EACH	LIGHT POLE REMOVED, AS PER PLAN	146		
					4		4	4			625	75500	4	EACH	LIGHT POLE FOUNDATION REMOVED			
					6		6	6			625	75507	6	EACH	LUMINAIRE REMOVED, AS PER PLAN	146		
					2		2	2			625	75801	2	EACH	DISCONNECT CIRCUIT, AS PER PLAN	146		
					2		2	2			625	76000	2	EACH	ARC FLASH CALCULATIONS AND LABEL (RIC-30-18.93)(ASD-30-0.05)			
					1		1	1			625	98000	1	EACH	LIGHTING, MISC.: CONTROL CENTER WORK PAD	145		
					1		1	1			625	98000	1	EACH	LIGHTING, MISC.: EXISTING POWER SERVICE MODIFICATION	146		
					1		1	1			625	98000	1	EACH	LIGHTING, MISC.: CONTROL CENTER WORK PAD, SLOPED AREA	145		
																TRAFFIC CONTROL		
							180	180			621	00100	180	EACH	RPM			
							112	112			621	54000	112	EACH	RAISED PAVEMENT MARKER REMOVED			
							18	18			626	00110	18	EACH	BARRIER REFLECTOR, TYPE 2, IWAY			
							28	28			626	00110	28	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL			
							563.5	563.5			630	02100	563.5	FT	GROUND MOUNTED SUPPORT, NO. 2 POST			
							728	728			630	03100	728	FT	GROUND MOUNTED SUPPORT, NO. 3 POST			
							285.5	285.5			630	04101	285.5	FT	GROUND MOUNTED SUPPORT, NO. 4 POST, AS PER PLAN	10		
							133.8	133.8			630	07000	133.8	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W8X18			
							182.5	182.5			630	07500	182.5	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X22			
							37.3	37.3			630	07600	37.3	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12			

GENERAL SUMMARY

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CALCULATED
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SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
11	12	13	14	18	122	124	125	01/NHS/OT	127									
						59.5				59.5		630	08000	59.5	FT	TRAFFIC CONTROL CONT. GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W12X30		
						60				60		630	08600	60	EACH	SIGN POST REFLECTOR		
						17				17		630	09000	17	EACH	BREAKAWAY STRUCTURAL BEAM CONNECTION		
						798.5				798.5		630	80100	798.5	SF	SIGN, FLAT SHEET		
						954				954		630	80200	954	SF	SIGN, GROUND MOUNTED EXTRUSHEET		
							17			17		630	84500	17	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION		
							79			79		630	84900	79	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL		
							2			2		630	85400	2	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL		
							1			1		630	85600	1	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND REERECTION		
							79			79		630	86002	79	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL		
										2		630	86102	2	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL		
										4		630	86292	4	EACH	REMOVAL OF GROUND MOUNTED WOODEN BOX BEAM SUPPORT AND DISPOSAL		
						0.26				0.26		644	00104	0.26	MILE	EDGE LINE, 6"		
						0.13				0.13		644	00300	0.13	MILE	CENTER LINE		
						38				38		644	00500	38	FT	STOP LINE		
							614			614		644	00700	614	FT	TRANSVERSE/DIAGONAL LINE		
							171			171		644	00720	171	FT	CHEVRON MARKING		
							14			14		644	01300	14	EACH	LANE ARROW		
							9			9		644	01301	9	EACH	LANE ARROW, AS PER PLAN	127	
							37			37		644	20800	37	FT	YIELD LINE		
										2		644	40000	2	EACH	SPEED MEASUREMENT MARKING		
						0.24				0.24		807	12010	0.24	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6"		
						0.12				0.12		807	12110	0.12	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"		
						1.65				1.65		807	14010	1.65	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6"		
						1.51				1.51		807	14110	1.51	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"		
						2,864				2,864		807	14310	2,864	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12"		
						1,341				1,341		807	14410	1,341	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6"		
						3.42				3.42		850	10010	3.42	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)		
						2,864				2,864		850	10130	2,864	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)		
						0.36				0.36		850	20010	0.36	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)		
																	MAINTENANCE OF TRAFFIC	
						100				100		410	12000	100	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B		
						100				100		410	13000	100	CY	TRAFFIC COMPACTED SURFACE, TYPE C		
							100			100		614	11110	100	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		
							10			10		614	12380	10	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)		
						LS				LS		614	12420	LS		DETOUR SIGNING		
							4			4		614	12484	4	EACH	WORK ZONE INCREASED PENALTIES SIGN		
							10			10		614	12500	10	EACH	REPLACEMENT SIGN		
							25			25		614	12600	25	EACH	REPLACEMENT DRUM		
						50	10			60		614	13000	60	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC		
										208		614	13310	208	EACH	BARRIER REFLECTOR, TYPE I, (IWAY)		
										208		614	13350	208	EACH	OBJECT MARKER, ONE WAY		
										60		614	18601	60	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	14	
										2.99		614	20056	2.99	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT		
						0.43				0.43		614	20210	0.43	MILE	WORK ZONE LANE LINE, CLASS I, 6", 740.06, TYPE I		
						1.63				1.63		614	20560	1.63	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT		
										0.12		614	21050	0.12	MILE	WORK ZONE CENTER LINE, CLASS I, 807 PAINT		
						0.13				0.13		614	21550	0.13	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT		
										6.55		614	22056	6.55	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT		
						1.23				1.23		614	22210	1.23	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I		
						2.16				2.16		614	22360	2.16	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT		
										4,206		614	23110	4,206	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT		
						135				135		614	23410	135	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 740.06, TYPE I		
						2,864				2,864		614	23690	2,864	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT		
										4,941		614	24102	4,941	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT		
						1,440				1,440		614	24402	1,440	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 740.06, TYPE I		

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