

Pavement

Profile and Alignment

Place the proposed pavement to follow the alignment of the existing pavement. Place the proposed asphalt concrete with a uniform thickness as shown on the typical sections.

Planing Requirements

The duration of time between planing the asphalt and placing the asphalt overlay shall be kept to a minimum. In no instance shall this time exceed 7 calendar days. The time limit shall begin on the first day of planing and shall continue based on calendar days, minus any weather days, until completion of the asphalt concrete surface course. This is to ensure that the potential degradation of the exposed pavement due to traffic is kept to a minimum. This requirement applies to both mainline and ramps alike.

In the event that the time between exposing the existing pavement and placing the asphalt surface course exceeds 7 calendar days, liquidated damages as per 108.07 of the C&MS shall be assessed.

Asphalt Concrete Surface Course Sealing Requirements

In addition to the gutter sealing requirements specified in SCD BP-3.1 and C&MS 401.15, after completion of the surface course, the contractor shall use a certified 702.01 PG binder to seal the following locations:

- All castings including but not limited to monuments, manholes, water valves, catch basins, curb inlets.
- Butt joints and feather joints including bridge approaches.
- Forward joint for driveway asphalt and trailing joint when butting to existing asphalt drive.
- Perimeter of all pavement repairs or other asphalt inlays when pavement repairs/inlays are not overlaid with an asphalt concrete surface course.
- All cold longitudinal joints between paved shoulders and guardrail asphalt.

The material used shall be a certified 702.01 PG binder. The width of the sealer shall be 2-3 inches.

Any additional costs associated with the work identified in this note shall be included in the appropriate asphalt concrete surface course item of work.

Longitudinal Joints (Flexible Pavement)

Longitudinal joints between a pavement lane and adjoining shoulder or speed change lane, and between a speed change lane and the adjoining shoulder shall be made the same day. All longitudinal joints shall be hot with the exception of one cold joint per roadway. Locate the cold joint along the centerline or a lane line. Longitudinal joint locations shall be as approved by the Engineer. Each ramp shall have a maximum of one longitudinal cold joint located approximately halfway across the ramp.

Driveway Asphalt

The contractor shall place the Driveway Asphalt within 10 calendar days of placing the final surface course.

In the event the time between placing the final surface course and placing the Driveway Asphalt exceeds 10 calendar days, liquidated damages as per 108.07 of the CMS shall be assessed.

Pavement Restoration for Pipe Installations and/or Removals

The following quantities have been provided for pavement restoration following installation and/or removal of pipes.

Item 252 - Full Depth Pavement Sawing.....	60 Ft
Item 301 - Asphalt Concrete Base, PG64-22, (449).....	10 Cu Yd
Item 304 - Aggregate Base, As Per Plan B.....	10 Cu Yd

The above quantity is based on a 301 thickness of 6 inches, a 304 thickness of 6 inches, and a pavement restoration width that includes the trench width plus two feet on each side of the trench.

Provide any materials used outside the limits stated above at no additional cost

Item 202 – Pavement Removed, Asphalt, As Per Plan

In addition to the requirements of ODOT CMS 202, this item shall also include full depth pavement sawing meeting the requirements of ODOT CMS 252.

Payment for the above stated shall include all labor, materials, equipment, and shall be included in the unit price bid for Item 202 - Pavement Removed, Asphalt, As Per Plan.

Item 204 – Proof Rolling

The following quantity is provided in the general summary to address locations requiring proof rolling:

Item 204 - Proof Rolling.....	2 Hour
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Item 251 – Partial Depth Pavement Repair (441)

This item shall be used to repair unsound, cold patch, or pop-out areas of longitudinal and transverse joints as directed by the Engineer. This work shall be performed after the planing operation. The depth of the repair shall be 3" below the top of the existing asphalt surface. The width of the repair shall be 12" centered over the existing joint.

Use replacement materials conforming to the requirements of Item 441, Type 2.

The following estimated quantity has been carried to the General Summary:

Item 251 – Partial Depth Pavement Repair.....	800 SY
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Item 253 – Pavement Repair

This work item is for use as directed by the Engineer for the purpose of pavement repair. All labor and material necessary to perform this work and section 250 of the CMS shall be included for payment under Item 253.

Depth of pavement repair removal shall typically be 5" measured after the pavement has been planed. The depth of repair shall be as directed by the Engineer if unsound material is encountered after the removal of the 5".

Use replacement materials conforming to the requirements of Item 301.

The following estimated quantity has been carried to the General Summary:

Item 253 – Pavement Repair.....	40 CY
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Item 304 – Aggregate Base, As Per Plan A (Resurfacing Section)

This item shall be used as directed by the Engineer in pavement repair areas where the Engineer deems the subgrade material unsuitable.

Place 6" of material conforming to the requirements of Item 304.

The following estimated quantity has been carried to the General Summary for use as directed by the Engineer:

Item 304 – Aggregate Base As Per Plan A.....	10 CY
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Item 304 – Aggregate Base, As Per Plan B (Drainage Section)

Granulated slag (GS) shall not be permitted for this item. All other requirements of sections 304 and 703.17 of the construction and material specifications shall still be applicable.

Item 441 – Asphalt Concrete Surface Course, Type 1 (446), As Per Plan

The coarse virgin aggregate for this item shall consist of a blend of 60% min air cooled blast furnace slag (ACBFS) or trap rock from Ontario with limestone comprising the remaining percentage.

Use PG70-22M binder for this item.

Item 424 – Fine Graded Polymer Asphalt, Type B, (448), As Per Plan

The coarse virgin aggregate for this item shall be limited to air cooled blast furnace slag (ACBFS) or trap rock from Ontario.

Item 617 – Compacted Aggregate, As Per Plan

This item shall be used to place compacted aggregate at a variable depth only where needed to fill in low spots and eliminate drop offs along shoulders. Material shall be limited to reclaimed asphalt concrete pavement (RAP).

The actual depth of compacted aggregate placed will vary depending upon existing conditions. For estimating purposes, an average depth of one inch (1") has been used. Water, if needed, shall be applied according to 617.05 and shall be included with Item 617 – Compacted Aggregate, As Per Plan.


Item 897 – Pavement Planing, Asphalt Concrete, Class A

Pavement planing shall be performed at an average depth of 1" as specified in the plans. All equipment, materials and labor required to perform the pavement repairs as detailed in these plans shall be included for payment under Item 897 – Pavement Planing, Asphalt Concrete, Class A.



SHEET NUM.												PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
Office Calcs	6	8	10	11	13	14	19	20	42	62	01/S>2/PV	EXT	TOTAL					
									4		4	611	99654	4	EACH	SANITARY SEWER MANHOLE ADJUSTED TO GRADE		
																PAVEMENT		
			800								800	251	01000	800	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)		
27			80							80	167	252	01500	167	FT	FULL DEPTH PAVEMENT SAWING		
			40								40	253	02000	40	CY	PAVEMENT REPAIR		
541			10								551	301	56000	551	CY	ASPHALT CONCRETE BASE, PG6A-22, (449)		
			10								10	304	20001	10	CY	AGGREGATE BASE, AS PER PLAN A	10	
570			10							75	655	304	20001	655	CY	AGGREGATE BASE, AS PER PLAN B	10	
679							5,502			19	6,200	407	20000	6,200	GAL	NON-TRACKING TACK COAT		
195							1,680				1,875	424	14001	1,875	CY	FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, (448), AS PER PLAN, 1.0"	10	
180										16	196	441	10200	196	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446)		
							18			12	30	441	70500	30	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)		
										5	5	609	14000	5	FT	CURB, TYPE 2-A		
124											124	617	10101	124	CY	COMPACTED AGGREGATE, AS PER PLAN	10	
							4,622				4,622	875	10000	4,622	LB	LONGITUDINAL JOINT ADHESIVE		
3,781							60,493				64,274	897	01010	64,274	SY	PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A, 1.0"		
																WATER WORK		
									1		1	638	10300	1	EACH	FIRE HYDRANT EXTENDED AND ADJUSTED TO GRADE		
									5		5	638	10800	5	EACH	VALVE BOX ADJUSTED TO GRADE		
		1									1	638	10801	1	EACH	VALVE BOX ADJUSTED TO GRADE, AS PER PLAN	8	
																TRAFFIC CONTROL		
									337		337	621	00100	337	EACH	RPM		
			253								253	621	54000	253	EACH	RAISED PAVEMENT MARKER REMOVED		
							6.98				6.98	646	10010	6.98	MILE	EDGE LINE, 6"		
							3.77				3.77	646	10200	3.77	MILE	CENTER LINE		
							721				721	646	10300	721	FT	CHANNELIZING LINE, 8"		
							154				154	646	10400	154	FT	STOP LINE		
							184				184	646	10600	184	FT	TRANSVERSE/DIAGONAL LINE		
							17				17	646	20300	17	EACH	LANE ARROW		
			LS								LS	SPECIAL	69098400	LS		INVENTORY EXISTING PAVEMENT MARKINGS	11	
																TRAFFIC SIGNALS		
			8								8	632	26501	8	EACH	DETECTOR LOOP, AS PER PLAN	11	
																MAINTENANCE OF TRAFFIC		
							104				104	614	11110	104	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		
							12				12	614	12460	12	EACH	WORK ZONE MARKING SIGN		
							25				25	614	13001	25	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC, AS PER PLAN	14	
							6				6	614	18601	6	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	14	
							3.77				3.77	614	21100	3.77	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT		
							3.77				3.77	614	21550	3.77	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT		
							6.98				6.98	614	22110	6.98	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT		
							6.98				6.98	614	22360	6.98	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT		
							721				721	614	23200	721	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT		
							721				721	614	23680	721	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT		
							154				154	614	26200	154	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT		
							154				154	614	26610	154	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT		
							17				17	614	30200	17	EACH	WORK ZONE ARROW, CLASS I, 642 PAINT		
							17				17	614	30650	17	EACH	WORK ZONE ARROW, CLASS III, 642 PAINT		
							15				15	616	10000	15	MGAL	WATER		
							300				300	630	97800	300	SF	SIGNING, MISC.: ADDITIONAL SIGNS, GROUND MOUNTED, AS DIRECTED BY THE ENGINEER	14	
																INCIDENTALS		
											LS	614	11000	LS		MAINTAINING TRAFFIC		
	12										12	619	16011	12	MNTH	FIELD OFFICE, TYPE B, AS PER PLAN	6	
											LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING		
											LS	624	10000	LS		MOBILIZATION		

GENERAL SUMMARY

DESIGN AGENCY

 DESIGNER
 KHD
 REVIEWER
 DAB 05-13-21
 PROJECT ID
 99694
 SHEET TOTAL
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