AK-002-

-14.

Item 442 – Asphalt Concrete Surface Course, 12.5mm, Type A, (447), As Per Plan, PG76-22M 1.5"

The coarse virgin aggregate for this item shall be limited to a blend of air cooled blast furnace slag (ACBFS) or Trap Rock from Ontario and limestone. The Contractor shall use a minimum 60% of ACBFS or Trap Rock from Ontario with limestone comprising the remaining percentage. At least 50% of the fine virgin aggregate for this item shall be limited to ACBFS or Trap Rock from Ontario.

Table 442.02-2 applies except No. 4 sieve requirements are 52 to 60 Total Percent Passing. For the No. 4 sieve, do not exceed 63 in production.

When ACBFS is used for a fraction of the coarse aggregate, provide a total asphalt binder content greater than or equal to 6.2%. If ACBFS makes up 100% of the coarse aggregate, apply the binder content requirements of CMS 442.

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 along the shoulder and eliminate drop offs. 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 as per 617.05 and included under Item 617 Compacted Aggregate, As Per Plan.

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

Item 617 – Compacted Aggregate, As Per Plan <u>147 Cu Yd</u>

Item 618 – Rumble Strips, Shoulder (Asphalt Concrete), As Per Plan

For all freeways, the lateral position of edge line rumble strips shown in SCD BP-9.1 is revised as follows:

- Median and Outside Shoulder Offset for shoulders less than 6': Dimension A and B are equal to 6"
- 2. Median and Outside Shoulder Offset for shoulders 6' to 12': Dimension A and B are equal to half the shoulder width minus 12".
- 3. Median and Outside Shoulder Offset for shoulders greater than 12': Dimension A and B are equal to 5'.

The following estimated quantity shall be used to construct Item 618 - Rumble Strips, Shoulder (Asphalt Concrete), As Per Plan as per Standard Drawing BP-9.1 except as noted above:

> Item 618 – Rumble Strips, Shoulder (Asphalt Concrete), As Per Plan

<u>Item 442 – Asphalt Concrete Surface Course, 12.5mm, Type A, (446), As Per</u> Plan, PG76-22M, 1.5"

Joint coring in accordance with 446.04 is not required for cold longitudinal joints placed over Void Reducing Asphalt Membrane (VRAM). Construct cold longitudinal joints over VRAM using the same techniques, equipment, and roller patterns used on the rest of the mat. Obtain 10 mat cores for each lot of material in accordance with 446.04. Pay factors for each lot of material will be determined according to Table 446.04-2.

The coarse virgin aggregate and at least 50% of fine virgin aggregate for this item shall be limited to air cooled blast furnace slag (ACBFS) or Trap Rock from Ontario.

Table 442.02-2 applies except No. 4 sieve requirements are 52 to 60 Total Percent Passing. For the No. 4 sieve, do not exceed 63 in production.

Item 255 Full Depth Pavement Removal And Rigid Replacement, Type 1, Class QC MS As Per Plan, A

Item 255 - Full Depth Pavement Removal And Rigid Replacement, Type 1, Class QC MS, As Per Plan, B

This item shall consist of replacing existing pavement per Item 255 and the notes below and details on sheet 34.

Existing concrete pavement thickness may vary from that shown on the typical sections by plus two inches or minus one inch. No adjustment in payment for this item shall be made providing that the average pavement thickness is within one inch of the thickness shown on the typical sections. Additional compensation shall be made by change order for the material cost of concrete only when the average thickness exceeds the one inch maximum tolerance above. The volume of concrete paid for shall be based upon the amount of concrete additional above the one inch tolerance limit.

The contractor shall saw through the existing overlay and perform the full depth repairs prior to the planing operation. The contractor shall remove the existing overlay and rigid pavement with care so as to not disturb the adjacent remaining concrete pavement and overlay.

If, after removal of the rigid pavement the engineer determines that the subbase or subgrade has failed or is pumping, the engineer will direct the contractor to excavate the unsuitable material and replace it with compacted 304 aggregate. Quantities of Item 203 - Excavation and Item 304- Aggregate Base have been provided to repair said failed subbase or subgrade areas.

Pavement repair less than or equal to ten (10) feet in length shall be paid for under "Full Depth Rigid Pavement Removal And Replacement, Type 1, Class QC MS, As Per Plan, A". Pavement repairs greater than ten (10) feet in length shall be paid for under "Full Depth Pavement Removal And Replacement, Type 1 Class QC MS, As Per Plan B"

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

Item 255 – Full Depth Pavement Removal And Replacement type 1 Class QC MS, As Per Plan A......<u>432 SY</u> Item 255 – Full Depth Pavement Removal And Replacement Type 1, Class QC MS, As Per Plan B......<u>27 SY</u>

Traffic Control

Pavement Markings

Auxiliary markings shall be located and installed as per Standard Drawing TC-

Permanent Pavement Markings on Bridges

Proposed pavement markings on bridges shall be placed on top of existing markings.

Raised Pavement Markers

Install raised pavement markers for lane lines at a spacing of eighty feet (80') center-to-center.

<u>Item 621 – Raised Pavement Marker Removed</u>

This item shall include the removal and disposal of existing RPMs. The following estimated quantity has been carried to the General Summary:

Item 621 – Raised Pavement Marker Removed......... <u>513 Each</u>



DAB 11/29/24 PROJECT ID 99583 10 34

					SHEET	NUM.				PART.	ITEM	ITEM	GRAND	LINITT	DECCRIPTION	SEE SHEET	
	7-10	11-15	18	19	20	21				01/NHS/05	ITEM	EXT	TOTAL	UNIT	DESCRIPTION		
															ROADWAY		-
	25 482									25 482	203 209	10000 60201	25 482	CY STA	EXCAVATION LINEAR GRADING, AS PER PLAN	8	
										102		33232			EROSION CONTROL		
										1,000	832	30000	1,000	EACH	EROSION CONTROL EROSION CONTROL		
															DRAINAGE		-
	3 1									3 1	611 611	98631 98634	3 1	EACH EACH	CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN CATCH BASIN RECONSTRUCTED TO GRADE	9	-
	2									2	611 611	99655 99660	2	EACH EACH	MANHOLE ADJUSTED TO GRADE, AS PER PLAN MANHOLE RECONSTRUCTED TO GRADE	9	-
	5,000									5,000	SPECIAL	61199820	5,000	LB	MISCELLANEOUS METAL	9	-
															PAVEMENT		
	1,000 300									1,000 300	251 251	01021 01021	1,000 300	SY SY	PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN A PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN B	9	-
	432		190,857	32,315						223,172 432	254 255	01001 15001	223,172 432	SY SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, 1-1/2" FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, TYPE 1, CLASS QC MS, AS PER PLAN A	9 10	
	27									27	255	15001	27	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, TYPE 1, CLASS QC MS, AS PER PLAN B	10	
1	2,032									2,032	255	20000	2,032	FT	FULL DEPTH PAVEMENT SAWING		ary
	25		16,219	2,747						25 18,966	304 407	20000 20000	25 18,966	CY GAL	AGGREGATE BASE NON-TRACKING TACK COAT		<u> </u>
			5,115	1,288 1,362						6,403 1,362	442 442	00100 10001	6,403 1,362	CY CY	ANTI-SEGREGATION EQUIPMENT ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PG76-22M 1-1/2"	10	Sur
-			7.070	1,502						·			,			10	<u>a</u>
	147		7,970							7,970 147	442 617	10301 10101	7,970 147	CY CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M 1-1/2" COMPACTED AGGREGATE, AS PER PLAN	10	ne
	18				18.33	9.39				18 27.75	618 850	40601 10010	18 27.72	MILE MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	10	Ge
					3,892	762				4,654	850	10110	4,654	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)		-
					2,084	1,354 0.26				3,438	850 850	10130 20010	3,438 1.62	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)		-
 					1.36 581	21				1.62 602	850	20110	602	MILE FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE) GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)		
3001.dgr				6,468						6,468	872	10000	6,468	FT	VOID REDUCING ASPHALT MEMBRANE (VRAM)		-
583_GC					224	127				351	620	00500	351	EACH	TRAFFIC CONTROL DELINEATOR, POST GROUND MOUNTED		-
neets\99	513				499	232				731 513	621 621	00100 54000	731 513	EACH EACH	RPM RAISED PAVEMENT MARKER REMOVED		-
dway\SI	515				100	100				100	646	10400	100	FT	STOP LINE		-
ring\Roa					400					400	646	10600	400	FT	TRANSVERSE/DIAGONAL LINE		
Enginee						92 18				92 18	646 646	10800 20300	92 18	SF EACH	ISLAND MARKING LANE ARROW		-
91					13.35	4 6.96				20.31	646 807	20320 12010	4 20.31	EACH MILE	WRONG WAY ARROW WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6"		
R: jalbri					6.33	2.67				9	807	12110	9	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"		
VM USE					1,304	1,354				2,658	807	12310	2,658	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 12"		-
0:21:13 <i>F</i>					2,935 780	762				3,697 780	807 807	12410 12430	3,697 780	FT FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, DOTTED LINE, 6" WET REFLECTIVE EPOXY PAVEMENT MARKING, DOTTED LINE, 12"		
TIME: 10	~~~	~~~	~~~	~~~	~~~	~~~~	~~~	~~~	m	*******	~~~~	***************************************	~~~	~~~~)	
3/01 Acti	,															3	DESIGN AGENCY
TE: 4/17																	
n.) DA:			·····	····	····	····	····		·····	Juur	······	·····	······			u)	
.38 34x22 (ir																	
-14.																	designer J DA
.002- neet PAPEI																	REVIEWER DAB 11/29/2
K-0																	PROJECT ID 99583
MODE pw:\\oldsymbol{o}																	SHEET TOTAL 34

