

PAVEMENT

Alignment And Profile

Place the proposed pavement to follow the alignment and profile of the existing pavement. Place the proposed asphalt concrete overlay as shown on the typical sections. The intent of the plans is to maintain the existing profile while smoothing out ruts and bumps.

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.

**Item 441 – Asphalt Concrete Surface Course, Type 1, (449),
As Per Plan, PG70-22M**

(Location 2 - Lake County – SR 615)

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.

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 442 – Asphalt Concrete Surface Course, 12.5mm, Type A (449),
As Per Plan, PG76-22M**

(Locations 1A & 1B - Lake County – IR-90)

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 percent. If ACBFS makes up 100% of the coarse aggregate, apply the binder content requirements of CMS 442.

**Item 441 – Asphalt Concrete Surface Course, Type 1, (448),
As Per Plan, PG70-22M**

(Location 3 - Geauga County – SR 168)

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.

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 209 – Linear Grading, As Per Plan

This item of work shall consist of grading along the outside edge of the paved shoulder to back-up the safety edge, eliminate high spots, fill-in low areas and provide positive sheet flow off the pavement and shoulder into roadside ditches or drainage structures. This item is not intended to be used to excavate a uniform depth to place Item 617 – Compacted Aggregate, As Per Plan.

Any excess debris collected shall be removed and disposed of as specified in Section 105.16 & 105.17 of the Construction and Material Specifications.

Item 617 – Compacted Aggregate, As Per Plan has been provided to be used As Directed by the Engineer, to fill in any remaining low areas after Item 209 – Linear Grading, As Per Plan is completed.

Payment for the above work shall be made at the unit bid price for Item 209 - Linear Grading, As Per Plan and shall include all labor, tools, equipment and materials necessary to perform this item of work.

The estimated quantities in the Sub-Summaries have been carried to the General Summary for use As Directed By The Engineer.

Item 617 – Compacted Aggregate, As Per Plan

This item shall be used along the shoulders. Material shall be limited to reclaimed asphalt concrete pavement.

The actual depth used will vary depending upon existing conditions.

For estimating purposes,

At Location 2 (SR-615) - an average depth of 3 inches (3.0”) at 1/2 foot width will be used per side of uncurbed roadway)

At Location 3 (SR-168) - an average depth of 1-1/2 inches (1.5”) at 1/2 foot width will be used per side of uncurbed roadway)

Water, if needed, shall be applied as per 617.05 and included for payment under Item 617 – Compacted Aggregate, As Per Plan.

This item shall be used, As Directed by the Engineer, to fill any remaining low areas after Item 209 – Linear Grading, As Per Plan is completed.

The estimated quantities in the sub-summaries have been carried to the General Summary.



REF. NO.	SHEET NO.	PLAN SPLIT NO.	PAVEMENT		LENGTH	BEGIN WIDTH	ENDING WIDTH	AVERAGE WIDTH	AREA	254 PAVEMENT PLANING, ASPHALT CONCRETE, (3.25")	407 NON-TRACKING TACK COAT	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), (1.75")	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN, PG70-22M, (1.5")	875 LONGITUDINAL JOINT ADHESIVE	209 LINEAR GRADING, AS PER PLAN	617 COMPACTED AGGREGATE, AS PER PLAN	
			SR-615 (MUNSON RD.) STATION	STATION													FT.
			BEGIN - CITY OF MENTOR ON THE LAKE														
		2	12+53.00	14+45.00	192	29.5	29.5	29.5	629	629	94	31	26	48			
		2	14+45.00	15+00.00	55	29.5	19	24.3	149	149	22	7	6	14			
		2	15+00.00	16+55.00	155	19	19	19	327	327	49	16	14	39	155	1	
		2	16+55.00	20+00.00	345	19	19	19	728	728	109	35	30	87	345	2	
		2	20+00.00	25+00.00	500	19	19	19	1056	1056	158	51	44	125	500	2	
		2	25+00.00	27+14.00	214	19	19	19	452	452	68	22	19	54	214	1	
			END - CITY OF MENTOR ON THE LAKE														
SUBTOTALS										3341	500	162	139	367	1214	6	
TOTALS CARRIED TO GENERAL SUMMARY										3341	500	162	139	367	12.14 STA	6	
PLAN SPLIT #2 TOTAL										3341	500	162	139	367	12.14	6	
REF. NO.	SHEET NO.	PLAN SPLIT NO.	TRAFFIC CONTROL		LENGTH	CENTER LINE, TYPE 1	CHANNELIZING LINE, 8", TYPE 1	STOP LINE, TYPE 1	CROSSWALK LINE, 12", TYPE 1	LANE ARROW, TYPE 1	WORD ON PAVEMENT, 72", TYPE 1	DOTTED LINE, 4", TYPE 1	EDGE LINE, 4", TYPE 1	TRANSVERSE/DIAGONAL LINE, TYPE 1	BIKE LANE ARROW, TYPE 1	PAVEMENT MARKING, MISC.:BIKE LANE WORD ON PAVEMENT, 44"	RPM
			SR-615 (MUNSON RD.) STATION	STATION													
			BEGIN - CITY OF MENTOR ON THE LAKE														
		2	12+53.00	15+00.00	247	337	450	39		6	3	57	190	28	2	4	
		2	15+00.00	20+00.00	500	640			128			160	1840	46	2	4	
		2	20+00.00	25+00.00	500	500						1786		3	6		47
		2	25+00.00	27+14.00	214	214						856		1	2		
			END - CITY OF MENTOR ON THE LAKE														
SUBTOTALS						1691	450	39	128	6	3	217	4672	74	8	16	47
TOTALS CARRIED TO GENERAL SUMMARY						0.32 MI	450	39	128	6	3	217	0.88 MI	74	8	16	47
PLAN SPLIT #2 TOTAL						0.32 MI	450	39	128	6	3	217	0.88 MI	74	8	16	47
REF. NO.	SHEET NO.	PLAN SPLIT NO.	MAINTENANCE OF TRAFFIC		LENGTH	WORK ZONE CENTER LINE, CLASS I, 642 PAINT	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT	WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	WORK ZONE ARROW, CLASS I, 642 PAINT	WORK ZONE ARROW, CLASS III, 642 PAINT	WORK ZONE DOTTED LINE, CLASS I, 4", 642 PAINT	WORK ZONE DOTTED LINE, CLASS III, 4", 642 PAINT	WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT	WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT
			SR-615 (MUNSON RD.) - CITY OF MENTOR ON THE LAKE STATION	STATION													
		2	12+53.00	15+00.00	247	337	337	450	450	39	39	6	6	57	57	190	190
		2	15+00.00	20+00.00	500	640	640							160	160	1840	1840
		2	20+00.00	25+00.00	500	500								1786	1786		
		2	25+00.00	27+14.00	214	214								856	856		
SUBTOTALS						1691	1691	450	450	39	39	6	6	217	217	4672	4672
TOTALS CARRIED TO GENERAL SUMMARY						0.32 MI	0.32 MI	450	450	39	39	6	6	217	217	0.88 MI	0.88 MI
PLAN SPLIT #2 TOTAL						0.32 MI	0.32 MI	450	450	39	39	6	6	217	217	0.88 MI	0.88 MI

LOCATION 2 - S.R.-615
PAVEMENT / TRAFFIC CONTROL SUB-SUMMARY


DESIGN AGENCY

 DESIGNER
 JAG
 REVIEWER
 DAB 12/18/23
 PROJECT ID
 114483
 SHEET TOTAL
 P.37 44

REF. NO.	SHEET NO.	PLAN SPLIT NO.	PAVEMENT			LENGTH FT.	BEGIN WIDTH FT.	ENDING WIDTH FT.	AVERAGE WIDTH FT.	AREA SQ. YD.	254			407		441	209	617	642	614
			PAVEMENT PLANING, ASPHALT CONCRETE, (1.5")								NON-TRACKING TACK COAT		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG70-22M, (1.5")	LINEAR GRADING, AS PER PLAN	COMPACTED AGGREGATE, AS PER PLAN	EDGE LINE, 4", TYPE 1	WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT			
			SR-168 (TAVERN RD.)							SY			GAL		CY	STA	CY	MILE	MILE	
			STATION	STATION																
			BEGIN																	
	3		1170+20.40	1203+41.36	SB	3320.96	5	5	5	1845	1845		166		77	3321	8	3321.0	3321.0	
	3		1170+07.50	1203+84.40	NB	3376.9	5	5	5	1876	1876		169		78	3376.9	8	3376.9	3376.9	
	3		1205+74.26	1229+53.00	SB	2378.74	5	5	5	1322	1322		119		55	2378.7	6	2378.7	2378.7	
	3		1205+39.28	1230+56.57	NB	2517.29	5	5	5	1398	1398		126		58	2517.3	6	2517.3	2517.3	
			END																	
SUBTOTALS										6441			580		268	11593.9	28	11593.89	11593.89	
TOTALS CARRIED TO GENERAL SUMMARY										6441			580		268	115.9 STA	28	2.2 MI	2.2 MI	
PLAN SPLIT #3 TOTAL										6441			580		268	115.9	28	2.2 MI	2.2 MI	

LOCATION 3 - S.R.-168
PAVEMENT / TRAFFIC CONTROL SUB-SUMMARY

DESIGN AGENCY



DESIGNER
JAG

REVIEWER
DAB 12/18/23

PROJECT ID
114483

SHEET TOTAL
P.42 44