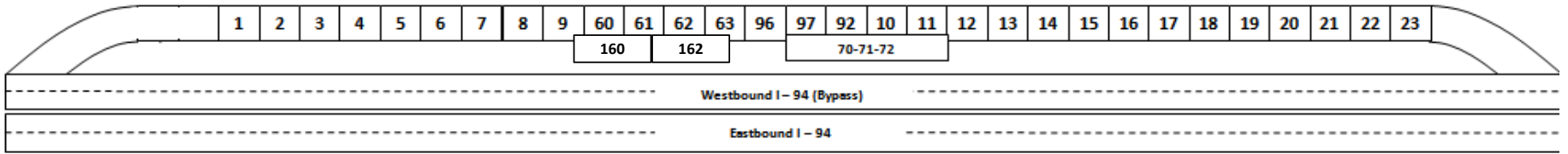


MnROAD Mainline



Cell numbers in "RED" NRRR is going to utilize in 2017

Original HMA	Stabilized Full Depth Reclamation of Asphalt			Unbonded Concrete Overlay of PCC				Concrete Initiatives		Original Concrete			Whitotopping Bonded Concrete Overlay of Asphalt			
1	2	3	4	505	605	305	405	306	406	7	8	9	160	162	96	
6" 58-28 75 blow	1" TBWC 2"64-34	1" TBWC 2"64-34	1" 64-34 2"64-34	5" UBOL Fabric	5" UBOL Fabric	5" UBOL	5" UBOL	6" Long Tine	6" Long Tine	7.5" Trans Tined	7.5" Trans Tined	7.5" Trans Tined	5" BCOA trans broom	4" BCOA trans broom	6" BCOA trans tined	
33" Class 4	6" FDR + EE	6" FDR + EE	8" FDR + EE	7.5" cracked '93 PCC	7.5" '93 PCC	7.5" '93 PCC	7.5" cracked jts '93 PCC	6" OGAB Sp	6" OGAB Sp	4" PSAB	4" PSAB	4" PSAB	6" 58-28 93HMA	7" 58-28 93HMA	7" 58-28 93HMA	
Driving Lane 1.5" 52-34 HMA inlay 2006	6" FDR	2" FDR 2"CI 5	9" FDR + Fly Ash	3"CI 4	3"CI 4	3"CI 4	3"CI 4	7" Class 5	7" Class 5	3"CI 4	3"CI 4	3"CI 4	Clay	Clay	Clay	
Micro Surface Aug 2012	26" Class 4	33" Class 3	Clay	27" Class 3	27" Class 3	27" Class 3	27" Class 3	Clay	Clay	20x14 20x13 1" dowel	15x14 15x13 13' PCC Should 1" dowel	15x14 15x13 13' PCC Should 1" dowel	6x6 Concrete Fibers	6x6 Concrete Fibers	6x5 Polypro Fibers	
Clay	Clay	Clay	Clay	*6x7 6x6.5 no dowels	*6x7 6x6.5 no dowels	15x14 15x13 no dowels	15x14 15x13 no dowels	15'x12' 1" dowel	15'x12' 1" dowel	2007 Innovative Grind	2007 Traditional Grind	2008 Ultimate Grind			2011 Traditional Grind	
Clay	Clay	Clay	Clay	*Trans Broom	*Trans Broom	Trad Grind	Trad Grind	RCC Shlds	RCC Shlds							
Clay	Clay	Clay	Clay	*RCC Shlds	*RCC Shlds	Clay	Clay	Clay	Clay							
Opened Length (ft)	Sep 92 462	Oct 08 500	Oct 08 454	Oct 08 500	Sep 11 153	Sep 11 146	Oct 08 133	Oct 08 117	Sep 11 261	Sep 11 292	Sep 92 499	Sep 92 500	Sep 92 500	Jul 13 449	Jul 13 449	Oct 97 177
Gap (ft)	97	60	156	75	0	0	0	0	21	46	29	26	0	0	0	0

2009 SHRP-II Composite Pavements				Original PCC	Recycled PCC	Whitotopping Bonded Concrete Overlay of Asphalt									
70	71	73	72	12	613	114	214	314	414	514	614	714	814	914	
3" 64-34 Saw/Seal	3" PCC EAC	3" PCC	3" PCC	9.5" trans tined	7.5" long tined	6" BCOA Turf Drag	6" BCOA Turf Drag	6" BCOA Turf Drag	6" BCOA Turf Drag	6" BCOA Turf Drag	6" BCOA Turf Drag	6" BCOA Turf Drag	6" BCOA Turf Drag	6" BCOA Turf Drag	
6" PCC Recycle	6" PCC Recycle	6" PCC Low Cost	6" PCC Low Cost	5" Class 5	2.5" CI 1	5"58-28 93 HMA	5"58-28 93 HMA	6"58-28 93HMA	6"58-28 93HMA	7" 58-28 93HMA	7" 58-28 93HMA	7.5" 58-28 93HMA	8" 58-28 93HMA	8" 58-28 93HMA	
8" Class 7	8" Class 7	8" Class 7	8" Class 7	Clay	Clay	6'x6' Panels	6'x6' Panels	6'x6' Panels	6'x6' Panels	6'x6' Panels	6'x12' Panels	6'x6' Panels	6'x6' Panels	6'x6' Panels	
Clay	Clay	Clay	Clay	15'x12' 1.25" dowel	15'x12' 1.25" dowel	Driving 1" dowels	No Dowels	Driving 1" dowels	No Dowels	Driving 1" dowels	Driving plate dowels	Driving 1" dowels	No Dowels	Driving 1" dowels	
15'x12' 1.25" dowel	Innovative Grind (driving) Convent. Grind (passing)	Innovative Grind (driving) Convent. Grind (passing)	EAC Surface		Neoprene Sealed										
15'x12' 1.25" dowel	15'x12' 1.25" dowel	15'x12' 1.25" dowel	15'x12' 1.25" dowel												
Opened Length (ft)	May 10 480	May 10 267	May 10 210	May 10 469	Sep 92 499	Jul 13 512	Oct 08 81	Oct 08 24	Oct 08 136	Oct 08 31	Oct 08 36	Oct 08 109	Oct 08 24	Oct 08 24	Oct 08 102
Gap (ft)	0	0	0	3	15	38	0	0	0	0	0	0	0	0	42

Cell numbers in "RED" NRRR is going to utilize in 2017

WMA	2016 HMA Performance Testing Test Sections (tied to NCAT)								
15	16	17	18	19	20	21	22	23	
3" WM 58-34	5" HMA PG 64S-22	5" HMA PG 64S-22	5" HMA PG 64S-22	5" HMA PG 64S-22	5" HMA PG 52S-34	5" HMA PG 58H-34	5" HMA PG 58H-34	5" HMA PG 64E-34	
11" 64-22 1993 HMA	12" Class 6	12" Class 6	12" Class 6	12" Class 6	12" Class 6	12" Class 6	12" Class 6	12" Class 6	
Clay	12" Class 3	12" Class 3	12" Class 3	12" Class 3	12" Class 3	12" Class 3	12" Class 3	12" Class 3	
	7" Select Gran	7" Select Gran	7" Select Gran	7" Select Gran	7" Select Gran	7" Select Gran	7" Select Gran	7" Select Gran	
	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	
	Hi LTC Potential 20% RAP 5% RAS	Hi LTC Potential 10% RAP 5% RAS	Med LTC Potential 20% RAP	Med LTC Potential 20% RAP	Med/High LTC Potential 30% RAP	Med LTC Potential 20% RAP Typical Mix	High LTC Potential 20% RAP LMS PG Binder + anti-strip	Low LTC Potential 15% RAP HIMA	
Opened Length (ft)	Sept 08 500	Sept 16 500	Sept 16 500	Sept 16 500	Sept 16 500	Sept 16 500	Sept 16 500	Sept 16 500	
Gap (ft)	95	50	70	70	50	90	80	80	

MnROAD Mainline Traffic - ESALS per Year

Year	Driving Lane		Passing Lane	
	Flexible	Rigid	Flexible	Rigid
1994	263,499	395,956	67,082	104,717
1995	579,931	877,886	176,791	276,724
1996	532,911	808,851	159,421	248,394
1997	415,828	632,244	110,144	173,507
1998	542,037	821,696	163,020	254,847
1999	641,264	967,499	186,017	289,248
2000	672,845	1,015,504	178,090	272,328
2001	712,973	1,077,422	191,675	291,229
2002	712,316	1,077,750	185,766	282,422
2003	692,453	1,042,991	190,299	288,709
2004	434,937	656,611	111,581	169,923
2005	812,340	1,222,622	215,201	325,195
2006	713,038	1,075,755	184,544	280,287
2007	759,904	1,142,266	188,653	285,853
2008	209,337	318,084	46,074	70,208
2009	773,095	1,170,257	196,919	291,873
2010	583,177	877,282	141,483	215,470
2011	632,002	956,376	149,516	227,038
2012	719,264	1,098,214	178,118	270,145
2013	921,873	1,390,830	245,983	368,504
2014	827,056	1,250,927	219,653	328,592
2015	875,172	1,323,535	237,183	353,444
2016	564,989	857,596	131,070	189,949

Only for the MnROAD Test cells - lane closure ESALS removed
See the MnROAD Traffic Spreadsheet/Database for more details

Updated
October 2016