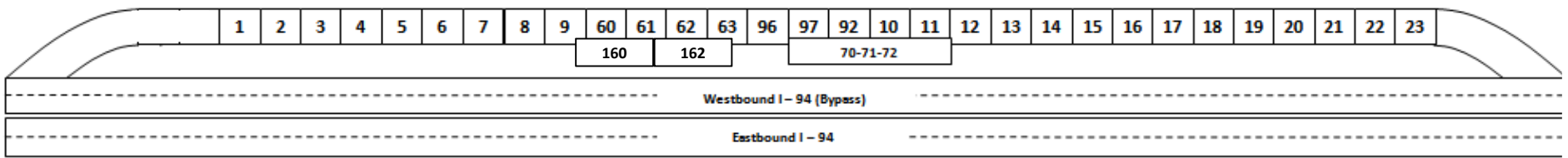


MnROAD Mainline



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 33" Class 4 Driving Lane 1.5" 52-34 HMA inlay 2006 Micro Surface Aug 2012 Clay	1" TBWC 2" 64-34 6" FDR + EE 6" FDR	1" TBWC 2" 64-34 6" FDR + EE 2" FDR 2" CI 5	1" 64-34 2" 64-34 8" FDR + EE 9" FDR + Fly Ash Clay	5" UBOL Fabric 7.5" cracked '93 PCC 3" CI 4 27" Class 3 *6x7 6x6.5 no dowels *Trans Broom *RCC Shlds Clay	5" UBOL Fabric 7.5" '93 PCC 3" CI 4 27" Class 3 *6x7 6x6.5 no dowels *Trans Broom *RCC Shlds Clay	5" UBOL 7.5" '93 PCC 1" PSAB 3" CI 4 27" Class 3 Trad Grind Clay	5" UBOL 7.5" cracked jts '93 PCC 1" PSAB 3" CI 4 27" Class 3 Trad Grind Clay	6" Long Tine OGAB Sp 7" Class 5 Clay 15'x12' 1" dowel RCC Shlds	6" Long Tine OGAB Sp 7" Class 5 Clay 15'x12' 1" dowel RCC Shlds	7.5" Trans Tined 4" PSAB 3" CI 4 Clay 20x14 20x13 1" dowel 2007 Innovative Grind	7.5" Trans Tined 4" PSAB 3" CI 4 Clay 15x14 15x13 13' PCC Should 1" dowel 2007 Traditional Grind	7.5" Trans Tined 4" PSAB 3" CI 4 Clay 15x14 15x13 13' PCC Should 1" dowel 2008 Ultimate Grind	5" BCOA trans broom 6" 58-28 93HMA Clay 6x6 Concrete Fibers	4" BCOA trans broom 7" 58-28 93HMA Clay 6x6 Concrete Fibers	6" BCOA trans tined 7" 58-28 93HMA Clay 6x5 Polypro Fibers 2011 Traditional Grind	
Opened Length (ft) Gap (ft)	Sep 92 462 97	Oct 08 500 60	Oct 08 454 156	Oct 08 500 75	Sep 11 153 0	Sep 11 146 0	Oct 08 133 0	Oct 08 117 0	Sep 11 261 0	Sep 11 292 21	Sep 92 499 46	Sep 92 500 29	Sep 92 500 26	Jul 13 449 0	Jul 13 449 0	Oct 97 177 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 6" PCC Recycle 8" Class 7 Clay 15'x12' Driving 1.25" dowel	3" PCC EAC 6" PCC Recycle 8" Class 7 Clay Innovative Grind (driving) Convent. Grind (passing) 15'x12' 1.25" dowel	3" PCC 6" PCC Low Cost 8" Class 7 Clay Innovative Grind (driving) Convent. Grind (passing) 15'x12' 1.25" dowel	3" PCC 6" PCC Low Cost 8" Class 7 Clay EAC Surface 15'x12' 1.25" dowel	9.5" trans tined 5" Class 5 Clay 15x12 1.25" dowel	7.5" long tined 2.5" CI 1 5" Class 5 Clay 15'x12' 1.25" dowel Neoprene Sealed	6" BCOA Turf Drag 5" 58-28 93 HMA Clay 6'x6' Panels Driving 1" dowels	6" BCOA Turf Drag 5" 58-28 93 HMA Clay 6'x6' Panels No Dowels	6" BCOA Turf Drag 6" 58-28 93HMA Clay 6'x6' Panels Driving 1" dowels	6" BCOA Turf Drag 6" 58-28 93HMA Clay 6'x6' Panels No Dowels	6" BCOA Turf Drag 7" 58-28 93HMA Clay 6'x6' Panels Driving 1" dowels	6" BCOA Turf Drag 7" 58-28 93HMA Clay 6'x12' Panels Driving plate dowels	6" BCOA Turf Drag 7.5" 58-28 93HMA Clay 6'x6' Panels Driving 1" dowels	6" BCOA Turf Drag 8" 58-28 93HMA Clay 6'x6' Panels No Dowels	6" BCOA Turf Drag 8" 58-28 93HMA Clay 6'x6' Panels Driving 1" dowels	
Opened Length (ft) Gap (ft)	May 10 480 0	May 10 267 0	May 10 210 0	May 10 469 3	Sep 92 499 15	Jul 13 512 38	Oct 08 81 0	Oct 08 24 0	Oct 08 136 0	Oct 08 31 0	Oct 08 36 0	Oct 08 109 0	Oct 08 24 0	Oct 08 24 0	Oct 08 102 42

WMA	Recycled Unbound Base, Warm Mix Asphalt				Low Temperature Cracking, Fractionated RAP			WMA, taconite
15	16	17	18	19	20	21	22	23
3" WM 58-34 11" 64-22 1993 HMA Clay	5" WM 58-34 12" 100% recycle PCC 12" Class 3 7" Select Gran Clay	5" WM 58-34 12" 50% RePCC 50% Class 5 12" Class 3 7" Select Gran Clay	5" WM 58-34 12" 100% RAP 12" Class 3 7" Select Gran Clay Chip Seal July 2014	5" WM 58-34 12" Class 5 12" Class 3 7" Select Gran Clay Chip Seal July 2014	5" 58-28 12" Class 5 12" Class 3 7" Select Gran Clay 30% Fract RAP	5" 58-28 12" Class 5 12" Class 3 7" Select Gran Clay 30% Fract RAP	5" 58-34 12" Class 5 12" Class 3 7" Select Gran Clay 30% Fract RAP	5" WM 58-34 12" Mesabi Ballast 12" Class 3 7" Select Gran Clay
Opened Length (ft) Gap (ft)	Sept 08 500 95	Sept 08 500 50	Sept 08 500 70	Sept 08 500 70	Sept 08 500 50	Sept 08 500 90	Sept 08 500 80	Sept 08 500 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	683,751	1,032,696	191,488	286,612

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

Updated August 2014