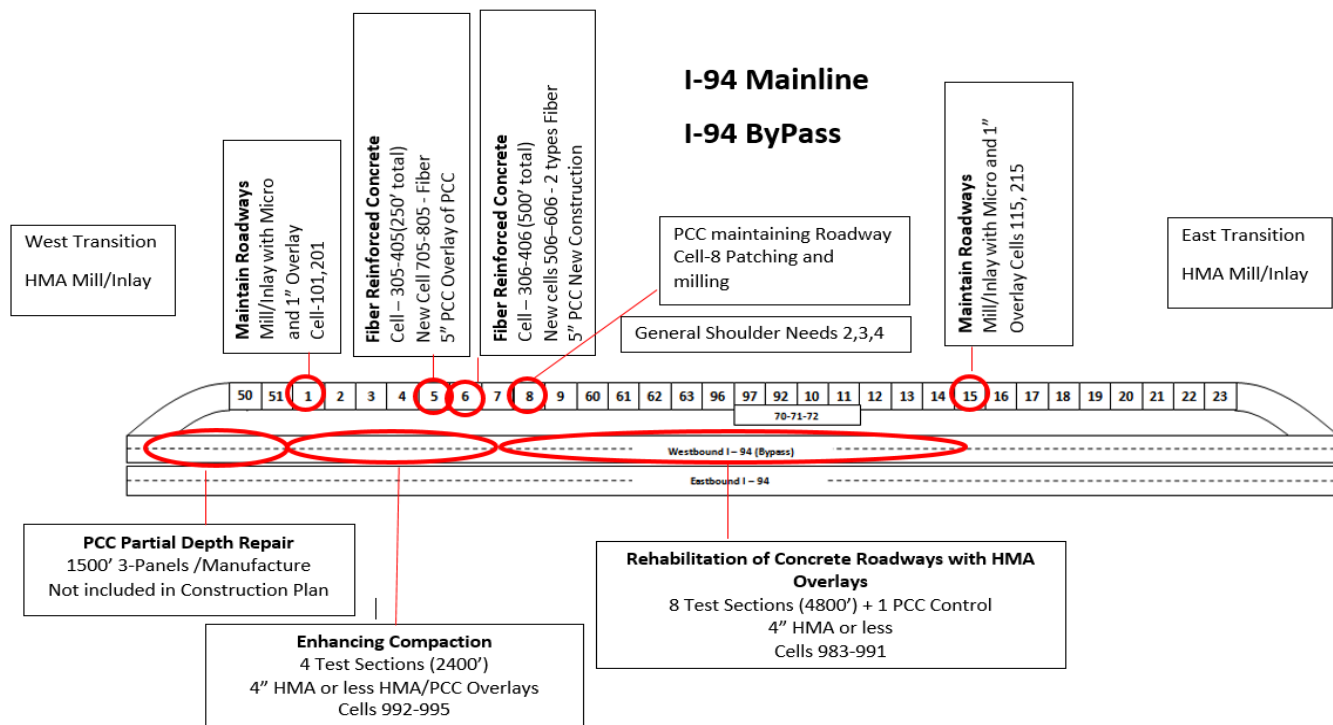


# 2017 MnROAD-NRRA CONSTRUCTION

## I-94 Mainline & ByPass



Maintain Roadways			Fiber Reinforced PCC				Fiber Reinforced PCC				Original Concrete
Original	New	New	Original	Original	New	New	Original	Original	New	New	8 Same
1	101	201	305	405	705	805	306	406	506	606	
6" 58-28 75 blow 33" Class 4 Driving Lane 1.5" 52-34 HMA inlay 2006 Micro Surface Clay	0.75" HMA 5.5" 58-28 75 blow 33" Class 4 Mill 0.75" (4.75 mm PG 58V-34) Clay	2X Chip 6" 58-28 75 blow 33" Class 4 Mill 0.375" Micro surface CQS-1P 0.375" 2 lifts Clay	5" UBOL 1" PSAB 7.5" cracked jts '93 PCC 3" CI 4 27" Class 3 15'Lx14'W 15'Lx13'W no dowels Trad Grind Clay	5" UBOL 1" PSAB 7.5" cracked jts '93 PCC 3" CI 4 27" Class 3 15'Lx14'W 15'Lx13'W no dowels Trad Grind Clay	5" Fiber Reinforced PCC 7.5" Geotextile Fabric cracked jts '93 PCC 3" CI 4 27" Class 3 12'Lx14'W 12'Lx13'W 1" dowel Clay	5" Fiber Reinforced PCC 7.5" Geotextile Fabric cracked jts '93 PCC 3" CI 4 27" Class 3 Drv Ln: 12'Lx6'W CL, 12'Lx8'W Shldr Pass Ln: 12'Lx6'W CL, 12'Lx7'W Shldr 1" dowel Clay	6" Long Time 6" OGAB Sp 7" Class 5 Clay 15'Lx12'W 1" dowel RCC Shlds	6" Long Time 6" OGAB Sp 7" Class 5 Clay 15'Lx12'W 1" dowel RCC Shlds	5" Fiber Reinforced PCC 11" Class 5Q 3" Class 5 Clay 6'Lx6'W HMA Shlds	5" Fiber Reinforced PCC 11" Class 5Q 3" Class 5 Clay 12'Lx12'W HMA Shlds	7.5" Trans Tined 4" PSAB 3" CI 4 Clay 15x14 15x13 13" PCC Shldr 1" dowel 2017 Patching & diamond grind
Sep 92 462	2017 231	2017 231	Oct 08 133	Oct 08 117	2017 133	2017 117	Sep 11 261	Sep 11 292	2017 261	2017 292	2017 500
97			0	0			0	0			29

Length (ft)  
Gap (ft)

Maintain Roadways			Rehabilitation of Concrete Roadways with HMA Overlays									
Original	New	New	New	New	New	New	New	New	New	New	New	New
15	115	215	983	984	985	986	987	988	989	990	991	
3" WM 58-34 11" 64-22 1993 HMA Clay	2X Chip 2.6" WM 58-34 11" 64-22 1993 HMA Clay Mill 0.375" Micro surface CQS-1P 0.375" 2 lifts	1.5" HMA 2.25" WM 58-34 11" 64-22 1993 HMA Clay Mill 0.75" Overlay 1.5" (2 0.75" lifts, 4.75 mm PG 58V-34)	9.5" PCC Control 5" Class 5 Clay 2013 Driving Lane Grind 27x12 Panels 1.25" dowels	1.5" HMA 9.5" PCC 27x12 Panels 1.25" dowels 5" Class 5 Clay 9.5 mm HMA overlay Standard tack CSS-1h @ 0.08-0.10 gal/sy	1.5" HMA 9.5" PCC 27x12 Panels 1.25" dowels 5" Class 5 Clay 12.5 mm HMA Tack @ (residual rate) of 0.05-0.06 gal/sy Conventional Paver	1.75" HMA 9.5" PCC 27x12 Panels 1.25" dowels 5" Class 5 Clay 12.5 mm HMA Tack CRS-1P @ (residual rate) of 0.10 gal/sy Spray Paver	1.5" HMA 9.5" PCC 27x12 Panels 1.25" dowels 5" Class 5 Clay 1.5" 9.5 mm HMA 2.5" 19 mm HMA	1.75" HMA 9.5" PCC 27x12 Panels 1.25" dowels 5" Class 5 Clay 1.75" 12.5 mm HMA, 4% void, 92% compaction in field 2.25" 19 mm PG 58H-28 HMA overlay	1.75" HMA 9.5" PCC 27x12 Panels 1.25" dowels 5" Class 5 Clay 1.75" 12.5 mm HMA, SP 5, 95% density, 5% in-place voids 2.25" 19 mm PG 58H-28 HMA overlay	1.75" HMA 9.5" PCC 27x12 Panels 1.25" dowels 5" Class 5 Clay 1.75" 12.5 mm HMA, 95% density, 3% air void regression 2.25" 19 mm PG 58H-28 HMA overlay	1.75" HMA 9.5" PCC 27x12 Panels 1.25" dowels 5" Class 5 Clay 1.75" 9.5 mm HMA, 95% density, fine grained - AASHTO M323-#8 2.25" 19 mm PG 58H-28 HMA overlay	
Sept 08 500	2017 285	2017 287.5	2017 500	2017 500	2017 500	2017 500	2017 500	2017 500	2017 500	2017 500	2017 500	
95			100	100	100	100	100	100	100	100	100	100

Length (ft)  
Gap (ft)

Enhancing Compaction				PCC Partial Depth Repair
New	New	New	New	New
992	993	994	995	3 Panels per Patch Manufacture - Cells TBD
1.5" HMA 1" HP 9.5" PCC 27x12 Panels 1.25" dowels 5" Class 5 Clay 1.5" 9.5 mm HMA overlay 1" high polymer asphalt interlayer	1.5" HMA 1" PSAB 9.5" PCC 27x12 Panels 1.25" dowels 5" Class 5 Clay 1.5" 9.5 mm HMA overlay 1" PSAB/PASSRC	1.5" HMA 9.5" PCC 27x12 Panels 1.25" dowels 5" Class 5 Clay 9.5 mm HMA overlay Standard tack CSS-1H @ 0.08-0.10 gal/sy	0.75" UTBWC 9.5" PCC 27x12 Panels 1.25" dowels 5" Class 5 Clay Polymer modified emulsion membrane @ 0.20 gal/sy Spray Paver	9.5" PCC 5" Class 5 Clay 2013 Driving Lane Grind 27x12 Panels 1.25" dowels
2017 500	2017 500	2017 500	2017 500	2017
100	100	100	100	

Length (ft)  
Gap (ft)