

Minnesota Standard Signs Manual

Revised 1/1/2011

Using this PDF:

The following pages are the Table of Contents. All sign codes/descriptions can be clicked on to open the corresponding detailed drawing. Clicking on the "WHAT'S NEW..." line opens the Revision, Additions, and Deletions index, which then has further links to the new or modified pages. Note that the Table of Contents' drawings have been updated to reflect the "WHAT'S NEW..." changes.

Minnesota Department of Transportation

TABLE OF CONTENTS

Standard Signs Manual

WHAT'S NEW, CHANGED, DELETED 1/1/11

SIGN NUMBER TITLE

"R" SERIES: REGULATORY

GROUP 1 – RIGHT OF WAY

R1-1.....	STOP
R1-2.....	YIELD
R1-2AP.....	TO ONCOMING TRAFFIC
R1-3P.....	ALL WAY
R1-5B.....	STOP HERE FOR Ped (Symbol)
R1-5C.....	STOP HERE FOR PEDESTRIANS
R1-6b.....	In Street & Post Mounted Ped Crossing Sign
R1-9B.....	STATE LAW – STOP FOR PEDESTRIANS IN CROSSWALK
R1-X1.....	STOP FOR PEDESTRIAN IN CROSSWALK
R1-X2.....	CROSS TRAFFIC DOES NOT STOP
R1-X3.....	TAKE TURNS
R1-X4.....	LOOK BOTH WAYS

GROUP 2 – SPEED

R2-1.....	SPEED LIMIT
R2-3P.....	NIGHT (Speed limit)
R2-4.....	MINIMUM SPEED (Limit)
R2-4b.....	SPEED LIMIT __ MINIMUM __
R2-6AP.....	FINES DOUBLE
R2-6c.....	END WORK ZONE SPEED
R2-X5.....	BRIDGE SPEED LIMIT

GROUP 3 – TURNING MOVEMENT

R3-1.....	No Right Turn (Symbol)
R3-2.....	No Left Turn (Symbol)
R3-3.....	NO TURNS
R3-4.....	No U Turn (Symbol)
R3-5.....	Lane Use Turn Arrow
R3-5a.....	Lane Use Through Arrow
R3-6.....	Lane Use Turn, Straight Arrow
R3-7.....	Mandatory Turn
R3-8.....	Lane Use Control Signs
R3-8 Supplement.....	Lane Use Control Sign Arrows
R3-9a.....	Center Lane Left Turn Only (Symbol)
R3-9b.....	CENTER LANE – Left Turn (Symbol) – ONLY
R3-15.....	HOV LANE AHEAD
R3-15a.....	HOV LANE ENDS
R3-17.....	BIKE LANE (With Symbol)
R3-17a.....	AHEAD (Plaque)
R3-17b.....	ENDS (Plaque)
R3-18.....	U-Turn and Left Turn Prohibition
R3-33.....	RIGHT LANE MUST EXIT
R3-X3.....	Restricted Ramp

GROUP 4 – ALIGNMENT

R4-1.....	DO NOT PASS
R4-2.....	PASS WITH CARE
R4-3.....	SLOWER TRAFFIC KEEP RIGHT
R4-3a.....	SLOWER TRAFFIC MOVE RIGHT
R4-4.....	BEGIN RIGHT TURN LANE YIELD TO BIKES
R4-5.....	TRUCKS USE RIGHT LANE
R4-6.....	TRUCK LANE __ FEET
R4-7.....	Keep Right (Symbol)
R4-8.....	Keep Left (Symbol)
R4-17A	NO DRIVING ON SHOULDER
R4-18A	NO PASSING ON SHOULDER
R4-X1	THRU TRAFFIC KEEP RIGHT
R4-X4	TRUCK STOPPING LANE
R4-X5	STATE LAW
R4-X6	PASSING LANE __ MILE(S) AHEAD
R4-X7	SHOULDER – AUTHORIZED BUSES ONLY
R4-X7p.....	END, BEGIN Plaques
R4-X8	BYPASS LANE
R4-X8a.....	BYPASS & TURN LANE

GROUP 5 – EXCLUSION

R5-1.....	DO NOT ENTER
R5-1a.....	WRONG WAY
R5-2.....	No Trucks (Symbol)
R5-3.....	NO MOTOR VEHICLES
R5-6.....	No Bicycles (Symbol)
R5-10d	Freeway Prohibition
R5-X1	No Snowmobiles (Symbol)
R5-X2	STATE PROPERTY KEEP OFF (OUT)
R5-X3	Mn/DOT Prohibition Signing
R5-X4	NO THRU TRAFFIC

GROUP 6 – ONE WAY

R6-1.....	ONE WAY (Arrow)
R6-2.....	ONE WAY (With Arrow)
R6-3.....	DIVIDED HIGHWAY (With Symbol)
R6-3a.....	DIVIDED HIGHWAY (With Symbol)
R6-4.....	Roundabout Directional
R6-4A	Roundabout Directional
R6-4B.....	Roundabout Directional
R6-6.....	BEGIN ONE WAY
R6-7.....	END ONE WAY

GROUP 7 – PARKING AND STOPPING – URBAN

R7-8m.....	Disabled Parking (With Symbol)
R7-8b.....	VAN ACCESSIBLE (Plaque)
R7-108.....	Permissive Parking
R7-X2	NO TRUCK PARKING

GROUP 8 – PARKING AND STOPPING – RURAL & URBAN

R8-3..... No Parking (Symbol)
R8-3MP No Parking Variable Messages (Plaques)
R8-4..... EMERGENCY PARKING ONLY
R8-7..... EMERGENCY STOPPING ONLY
R8-8..... DO NOT STOP ON TRACKS
R8-41..... Park & Ride Parking Prohibition

GROUP 9 – PEDESTRIAN AND BICYCLE

R9-1..... WALK ON LEFT FACING TRAFFIC
R9-2..... CROSS ONLY AT CROSS WALKS
R9-3..... No Pedestrians (Symbol)
R9-5..... BIKES USE PED SIGNAL (With Symbol)
R9-6..... BIKES YIELD TO PEDS (With Symbol)
R9-7..... KEEP RIGHT – LEFT (Pedestrian & Bike Symbols)
R9-9..... SIDEWALK CLOSED
R9-9a..... TRAIL CLOSED
R9-11b..... SIDEWALK CLOSED USE OTHER SIDE OF STREET
R9-X1 BIKES USE SHOULDER (With Symbol)
R9-X2 BIKES MUST USE BIKEWAY (With Symbol)

GROUP 10 – TRAFFIC SIGNAL

R10-1..... CROSS ON GREEN LIGHT ONLY
R10-2..... CROSS ON WALK SIGNAL ONLY
R10-3m..... PUSH BUTTON FOR GREEN LIGHT (With Arrow)
R10-4b..... Pedestrian Push Button (Symbol)
R10-5..... LEFT ON GREEN ARROW ONLY
R10-6..... WAIT (STOP) HERE ON RED (With Arrow)
R10-7..... DO NOT BLOCK INTERSECTION
R10-7a..... DO NOT BLOCK CROSSWALK
R10-10..... RIGHT (LEFT) TURN SIGNAL
R10-11b..... NO TURN ON RED
R10-12..... LEFT TURN YIELD ON GREEN
R10-X1 WAIT ON STOP – GO ON SLOW
R10-X4 RAMP METERING BEGINS ___
R10-X6 1 CAR ON GREEN
R10-X7 FORM 2 LANES WHEN METERED
R10-X10..... HOV Lane (Right Arrow)
R10-X11..... HOV Lane (Left Arrow)
R10-X12..... LEFT TURN YIELD ON FLASHING YELLOW ARROW

GROUP 11 – CLOSURES

R11-1..... KEEP OFF MEDIAN
R11-2..... ROAD (STREET) (RAMP) CLOSED
R11-2a..... BRIDGE CLOSED (OUT)
R11-3a..... ROAD CLOSED ___ MILES AHEAD LOCAL TRAFFIC ONLY
R11-3c..... BRIDGE CLOSED ___ MILES AHEAD LOCAL TRAFFIC ONLY
R11-4..... ROAD CLOSED TO THRU TRAFFIC
R11-X1 ROAD CLOSED WHEN FLASHING

GROUP 12 – WEIGHT LIMIT

- R12-1a BRIDGE WEIGHT LIMIT __ TONS
- R12-2 AXLE WEIGHT LIMIT __ TONS
- R12-5 WEIGHT LIMIT (With Symbols)
- R12-5 Supplement Advance Weight Limit Plaques
- R12-5A WEIGHT LIMIT - Special (With Symbol)
- R12-X2 RESTRICTED BRIDGE __ MILES AHEAD WEIGHT
LIMIT __ TONS
- R12-X2a RESTRICTED BRIDGE __ MILES AHEAD PERMIT
WEIGHT LIMIT 45 TONS
- R12-X3 TRUCKS MUST NOT MEET ON BRIDGE
- R12-X3a VEHICLES MUST NOT MEET ON BRIDGE
- R12-X4 RESTRICTED BRIDGE __ MILES AHEAD WEIGHT
LIMIT __ TONS CLEARANCE __ FT __ IN
- R12-X4a RESTRICTED BRIDGE __ MILES AHEAD
CLEARANCE __ FT __ IN
- R12-X5 VEHICLES OVER __ TONS AXLE WEIGHT USE
TRUCK DETOUR
- R12-X11 PERMIT WEIGHT LIMIT 45T

GROUP 14 – TRUCK ROUTE

- R14-1 TRUCK ROUTE

GROUP 15 – RAILROAD

- R15-3P EXEMPT
- R15-7 Light Rail Divided Highway (Symbol)
- R15-7a Light Rail Divided Highway (Symbol)

GROUP 16 – MISCELLANEOUS

- R16-X1 STATE LAW – STOP FOR SCHOOL BUS WHEN
RED LIGHTS FLASHING
- R16-X2 STATE LAW – TRUCKS AND VEHICLES WITH
TRAILERS MUST MAINTAIN 500 FT INTERVAL
- R16-X3 UP TO \$1000 FINE FOR LITTERING HIGHWAYS
- R16-X4 Freeway Entrance Ramp Informational Sign
- R16-X6 SIGNAL YOUR TURN
- R16-X7 RIGHT (LEFT) LANE MUST EXIT
- R16-X8 REST STOP 6 HR LIMIT – NO CAMPING
- R16-X9 STATE LAW – UNLAWFUL TO PASS ON SHOULDER
- R16-X10 NO FISHING FROM BRIDGE
- R16-X11 STATE LAW – SEAT BELT USE REQUIRED
- R16-X12 Seat Belts Fastened? (Symbol)
- R16-X13 VEHICLE NOISE LAWS ENFORCED
- R16-X14 FINES DOUBLE IN WORK ZONES
- R16-X15 STATE LAW – MOVE OVER FOR STOPPED
EMERGENCY & MAINTENANCE VEHICLES
- R16-X16 DO NOT CROSS DOUBLE WHITE LINE
- R16-X33 CHECK YOUR TURN SIGNAL

“W” SERIES: WARNING

GROUP 1 – CHANGES IN HORIZONTAL ALIGNMENT

W1-1	Turn
W1-1A	Turn With Speed Advisory
W1-2	Curve
W1-3	Reverse Turn
W1-4	Reverse Curve
W1-4b.....	2 Lane Shift
W1-4c.....	3 Lane Shift
W1-5	Winding Road
W1-6	Large Single Head Arrow
W1-7	Large Double Head Arrow
W1-8	Chevron Alignment
W1-10.....	Horizontal Alignment
W1-11.....	Hairpin Curve
W1-11A	Sharp Curve
W1-X1	Double Reverse Curve
W1-X1B	2 Lane Double Reverse Curve

GROUP 2 – INTERSECTION

W2-1	Cross Road
W2-1a(R)	Offset Cross Road
W2-1a(L)	Offset Cross Road
W2-2	90 Degree Side Road
W2-3	45 Degree Side Road
W2-4	“T” Intersection
W2-5	“Y” Intersection
W2-6a.....	Roundabout
W2-6ap.....	ROUNDABOUT (Plaque)
W2-X1	HIDDEN INTERSECTION AHEAD
W2-X12	HIDDEN ENTRANCE

GROUP 3 – ADVANCE WARNING OF CONTROL DEVICE

W3-1	Stop Ahead (Symbol)
W3-1A	STOP AHEAD
W3-2	Yield Ahead (Symbol)
W3-2A	YIELD AHEAD
W3-3	Signal Ahead (Symbol)
W3-3A	SIGNAL AHEAD
W3-4	BE PREPARED TO STOP
W3-5	Speed Reduction
W3-X1	RAMP METER AHEAD
W3-X4	PREPARE TO STOP WHEN FLASHING
W3-X5	TRAFFIC CONTROL CHANGE AHEAD
W3-X6	ROAD CLOSED WHEN FLASHING
W3-X7	LOOK FOR TRAFFIC
W3-X8	ENTERING TRAFFIC WHEN FLASHING
W3-X8A	ENTERING TRAFFIC (Diamond) WHEN FLASHING (Plaque)

GROUP 4 – MERGING TRAFFIC

- W4-1 Merge (Symbol)
- W4-2 Transition (Left) (Right) (Symbol)
- W4-3 Added Lane (Symbol)
- W4-6 Entering Roadway Added Lane (Symbol)
- W4-X1 TRAFFIC MERGING FROM RIGHT (LEFT)

GROUP 5 – NARROW ROADWAY

- W5-1 ROAD NARROWS
- W5-2 NARROW BRIDGE
- W5-3 ONE LANE BRIDGE
- W5-4a BIKEWAY NARROWS
- W5-X1 SHOULDER NARROWS

GROUP 6 – CHANGES IN HIGHWAY DESIGN

- W6-1 Divided Highway (Symbol)
- W6-2 Divided Highway Ends (Symbol)
- W6-3 Two Way Traffic (Symbol)
- W6-4 Opposing Traffic Lane Divider (Symbol)
- W6-X1 LEFT (RIGHT) ACCELERATION LANE
- W6-X2 ACCELERATION LANE ENDS

GROUP 7 – GRADES

- W7-1 Hill (Symbol)
- W7-1A Hill (With Grade Percentage)
- W7-2BP TRUCKS USE LOWER GEAR (Plaque)
- W7-3P % GRADE (Plaque)
- W7-3AP NEXT MILE(S) (Plaque)
- W7-3BP % GRADE MILES (Plaque)
- W7-5 Hill (Bike Symbol)

GROUP 8 – ROADWAY CONDITIONS

- W8-1A BUMP AHEAD (Optional Arrow)
- W8-1b BUMPS
- W8-2 DIP
- W8-3 PAVEMENT ENDS
- W8-4 SOFT SHOULDER
- W8-5 Slippery When Wet (Symbol)
- W8-7 LOOSE GRAVEL
- W8-8 ROUGH ROAD
- W8-9 LOW SHOULDER
- W8-9b SHOULDER DROP-OFF
- W8-10 Slippery When Wet (Bike Symbol)
- W8-11 UNEVEN LANES
- W8-12A NO CENTER STRIPE
- W8-15 GROOVED PAVEMENT
- W8-15P Motorcycle (Plaque) (Symbol)
- W8-23 NO SHOULDER
- W8-X1 ROAD UNDER WATER
- W8-X2 ROAD SUBJECT TO FLOODING
- W8-X13 ROUGH CROSSING

GROUP 9 – LANE DROP

- W9-1 LEFT (RIGHT) LANE ENDS
- W9-2 LANE ENDS MERGE RIGHT (LEFT)
- W9-3A CENTER LANE CLOSED

GROUP 10 – RAILROAD CROSSING

- W10-1 Railroad Advance Warning
- W10-1a EXEMPT (Symbol)
- W10-2 Railroad Advance (Parallel Tracks)
- W10-3 Railroad Advance (Parallel Tracks)
- W10-4 Railroad Advance (Parallel Tracks)
- W10-5 Low Ground Clearance RR Grade Crossing
- W10-9 NO TRAIN HORN
- W10-11 Storage Space (Symbol)
- W10-11a _ FEET BETWEEN TRACKS & HIGHWAY
- W10-11b _ FEET BETWEEN HIGHWAY & TRACK BEHIND
YOU
- W10-X1 Track Angle (Symbol)
- W10-X2 HIDDEN CROSSING
- W10-X3 LOOK FOR TRAINS (With Arrows)

GROUP 11 – CROSSING AND ENTERING

- W11-1 Bike Crossing (Symbol)
- W11-2 Pedestrian Crossing (Symbol)
- W11-3 Deer Crossing (Symbol)
- W11-4 Cattle Crossing (Symbol)
- W11-5 Farm Machinery (Symbol)
- W11-6 Snowmobile Crossing (Symbol)
- W11-7 Equestrian Crossing (Symbol)
- W11-8 Fire Station (Symbol)
- W11-9 Disabled Crossing (Symbol)
- W11-10 Truck Crossing (Symbol)
- W11-15 Combined Bicycle/Pedestrian Crossing
- W11-15A TRAIL CROSSING
- W11-X2 Horse and Buggy (Symbol)
- W11-X3 TRUCKS ENTERING
- W11-X21 Duck Crossing (Symbol)
- W11-X22 Moose Crossing (Symbol)
- W11-X23 Turtle Crossing (Symbol)
- W11-X23p RARE TURTLE CROSSING

GROUP 12 – OBSTRUCTIONS

- W12-1 Double Arrow
- W12-2 Low Clearance Advance
- W12-2p Low Clearance (Mounted on Structure)
- W12-X2 Low Clearance (With Arrows) (Mount at Point
Of Minimum Clearance)

GROUP 13 – ADVISORY SPEEDS

- W13-1 Advisory Speed (Plaque)
- W13-2 Advisory Exit Speed

GROUP 14 – MISCELLANEOUS

W14-1.....	DEAD END
W14-3.....	NO PASSING ZONE
W14-X1	WATCH FOR FALLEN ROCK
W14-X2	WATCH FOR SLOW TRAFFIC
W14-X3	WEIGHT RESTRICTION AHEAD
W14-X8	ACCIDENT AHEAD
W14-X9	WATCH FOR BUSES ON SHOULDER
W14-X10.....	Bus on Shoulder Warning (Symbol)
W14-X11.....	EVENT CONGESTION AHEAD
W14-X12.....	CONTROLLED BURNING AHEAD
W14-X13.....	SMOKE OVER ROAD
W14-X14.....	SNOW REMOVAL AHEAD
W14-X15.....	EMERGENCY SCENE AHEAD

GROUP 15 –

W15-1.....	Playground (Symbol)
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GROUP 16 – WARNING SIGN PLAQUES

W16-1AP.....	SHARE THE ROAD
W16-7MP.....	Down Arrow (Plaque)
W16-8.....	Advance Street Name
W16-8A	Advance Street Names (With Arrows)
W16-9p.....	AHEAD (Plaque)

GROUP 20 – CONSTRUCTION

W20-1.....	ROAD WORK AHEAD
W20-1A	SIDEWALK WORK AHEAD
W20-2.....	DETOUR AHEAD
W20-3.....	ROAD CLOSED AHEAD
W20-3a.....	TRAIL CLOSED AHEAD
W20-4m.....	ONE LANE ROAD AHEAD
W20-7.....	Flagger Ahead (Symbol)
W20-100p	Variable Distance Plaques
W20-X3	MERGE (With Demountable Arrow)
W20-X4	BRIDGE CLOSED AHEAD
W20-X6	BYPASS AHEAD
W20-X9	BRIDGE WORK AHEAD
W20-X10.....	SIGNAL WORK AHEAD
W20-X11.....	Reduced Width (With Arrows)
W20-X12.....	CENTER LANE MERGE LEFT
W20-X13.....	RIGHT (LEFT) TWO LANES CLOSED
W20-X16.....	RAMP CLOSED AHEAD
W20-X17.....	LANES NARROW
W20-X18.....	TURN LANE CLOSED

GROUP 21 – MAINTENANCE AND MINOR CONSTRUCTION

W21-1.....	Worker Ahead (Symbol)
W21-2.....	FRESH OIL
W21-6a.....	SURVEY CREW AHEAD
W21-7.....	UTILITY WORK AHEAD
W21-X3	Large Arrow (Horizontal & 45°)

W21-X4	ROAD WORK AHEAD (Mobile Operations)
W21-X4 Supplement....	W21-X4 Overlays
W21-X4A	RIGHT (LEFT) LANE CLOSED (For Mobile Operations)
	SHOULDER (RAMP) CLOSED
W21-X5	RIGHT (LEFT) LANE CLOSED
W21-X5A	SHOULDER CLOSED
W21-X6	CREW WORKING AHEAD
W21-X7	Flagger Paddle
W21-X8	MINIMUM MAINTENANCE ROAD
W21-X9	HIGH SHOULDER
W21-X10.....	Striper Train Signing
W21-X11.....	Striper Train Signing
W21-X12.....	Striper Train Signing
W21-X13.....	Striper Train Signing
W21-X14.....	BRIDGE INSPECTION AHEAD

GROUP 22 – BLASTING ZONE

W22-1.....	BLASTING ZONE AHEAD
W22-2.....	Blasting Area Prohibition
W22-3.....	END BLASTING ZONE

“M” SERIES: ROUTE MARKERS & AUXILIARIES

GROUP 1 – ROUTE MARKERS

M1-1	Interstate Route Marker
M1-2.....	Off Interstate Business Loop Marker
M1-3.....	Off Interstate Business Spur Marker
M1-4.....	Independent U.S. Route Marker
M1-4a	Overlay U.S. Route Marker
M1-4ab	Overlay U.S. Business Route Marker
M1-4B.....	Independent U.S. Business Route Marker
M1-5a	Independent Minnesota Route Marker
M1-5AB.....	Independent Minnesota Business Route Marker
M1-5b	Overlay Minnesota Route Marker
M1-5bb	Overlay Minnesota Business Route Marker
M1-6.....	Independent Pentagon County Route Marker
M1-6a	Overlay Pentagon County Route Marker
M1-10A.....	EISENHOWER INTERSTATE SYSTEM
M1-X1.....	Great River Road Marker
M1-X1p.....	NATIONAL ROUTE (Plaque)
M1-X3.....	Township Route Marker
M1-X4.....	Independent County Route Marker
M1-X4a.....	Overlay County Route Marker
M1-X4b.....	Intercounty Route Marker

GROUP 2 – JUNCTION, BEGIN

M2-1	JCT (White)
M2-1a	JCT (Blue)
M2-X1.....	BEGIN (White)
M2-X1a.....	BEGIN (Blue)

GROUP 3 – CARDINAL DIRECTION

M3-1	NORTH (White)
M3-1A	NORTH (Blue)
M3-2	EAST (White)
M3-2A	EAST (Blue)
M3-3	SOUTH (White)
M3-3A	SOUTH (Blue)
M3-4	WEST (White)
M3-4A	WEST (Blue)

GROUP 4 – ALTERNATIVE, TRAILBLAZER, TERMINATION

M4-1	ALTERNATE
M4-1a	ALT
M4-2a	BYPASS
M4-3	BUSINESS
M4-4	TRUCK
M4-5	TO (White)
M4-5a	TO (Blue)
M4-6	END (White)
M4-6a	END (Blue)
M4-7	TEMPORARY
M4-8	DETOUR (Auxiliary)
M4-8a	END DETOUR
M4-9m	DETOUR (With Arrow)
M4-9ma	Bicycle, Pedestrian Detour
M4-9mb	Pedestrian Detour
M4-9mc	Bicycle Detour
M4-10	DETOUR (Arrow)
M4-11	BEGIN (Bike Trail Plaque)
M4-12	END (Bike Trail Plaque)
M4-13	TO (Bike Trail Plaque)
M4-X1	OLD (White)
M4-X1a	OLD (Blue)

GROUP 5 – ADVANCE DIRECTIONAL ARROWS

M5-1	Advance Turn Arrow – 90° (White)
M5-1a	Advance Turn Arrow – 90° (Blue)
M5-2	Advance Turn Arrow – 45° (White)
M5-2a	Advance Turn Arrow – 45° (Blue)
M5-3	Advance Turn Arrow – Curved Stem (White)
M5-3A	Advance Turn Arrow – Curved Stem (Blue)

GROUP 6 – DIRECTIONAL ARROWS

M6-1	Directional Arrow – Single Head Horizontal (White)
M6-1a	Directional Arrow – Single Head Horizontal (Blue)
M6-2	Directional Arrow – Single Head 45° (White)
M6-2a	Directional Arrow – Single Head 45° (Blue)
M6-3	Directional Arrow – Single Head Vertical (White)
M6-3a	Directional Arrow – Single Head Vertical (Blue)
M6-4	Directional Arrow – Double Head Horizontal (White)
M6-4a	Directional Arrow – Double Head Horizontal (Blue)
M6-5	Directional Arrow – Double Head 45° (White)

M6-5	Directional Arrow – Double Head 45° (White)
M6-5a	Directional Arrow – Double Head 45° (Blue)
M6-6	Directional Arrow – Double Head 90° Bent (White)
M6-6a	Directional Arrow – Double Head 90° Bent (Blue)
M6-7	Directional Arrow – Double Head 45° Bent (White)
M6-7a	Directional Arrow – Double Head 45° Bent (Blue)
M6-8A.....	Advance Directional – Double Head 90° Bent (White)
M6-8B.....	Advance Directional – Double Head 90° Bent (Blue)

GROUP 7 – DIRECTIONAL ARROWS FOR BIKE TRAIL USE ONLY

M7-1	Directional Arrow – Single Head Horizontal (Green)
M7-2.....	Directional Arrow – Single Head Vertical (Green)
M7-3.....	Directional Arrow – Double Head 45° (Green)
M7-4.....	Directional Arrow – Single Head 45° (Green)
M7-5.....	Directional Arrow – Double Head Horizontal (Green)
M7-6.....	Directional Arrow – Double Head 90° Bent (Green)
M7-7.....	Directional Arrow – Double Head 45° Bent (Green)

“G” SERIES: CONSTRUCTION INFORMATION

GROUP 20 – WORK INFORMATION

G20-1	ROAD WORK NEXT __ MILES
G20-2a.....	END ROAD WORK
G20-4	PILOT CAR FOLLOW ME
G20-X1	ROAD (BRIDGE) (RAMP) (CROSSING) Closure Notice
G20-X2	Work Zone Location Advance Notice
G20-X3	WORK ENDS __
G20-X4	Construction Zone Business Signing
G20-X5	Contractor Identification Signing
G20-X6	BUSINESS ACCESS (With Arrow)
G20-X7	Construction Exit
G20-X8	Generic Construction Business Signing
G20-X9	TURN LANE Construction
G20-X10	USE BOTH LANES DURING BACKUP
G20-X11	TAKE TURNS AT MERGE
G20-X12	TAKE TURNS
G20-X13	BEGIN MERGE
G20-X14	STOPPED TRAFFIC WHEN FLASHING

“S” SERIES: SCHOOL WARNING

GROUP 1 – ADVANCE AND CROSSING

S1-1.....	School Crossing (Symbol)
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GROUP 2 – CROSSING

GROUP 3 – SCHOOL BUS STOP

S3-1.....	School Bus Stop Ahead (Symbol)
S3-2A	SCHOOL BUS TURN AROUND
S3-X1	SCHOOL BUS LOADING AREA

GROUP 4 –

S4-2P.....	WHEN CHILDREN ARE PRESENT (Plaque)
S4-3P.....	SCHOOL (Plaque)
S4-4P.....	WHEN FLASHING (Plaque)

GROUP 5 –

S5-2..... END SCHOOL ZONE

“D” SERIES: GUIDE SIGNS – CONVENTIONAL ROADS

GROUP 1 – DESTINATION

D1-X1 BUSINESS DISTRICT (With Arrow)
D1-X1A..... DOWNTOWN (With Arrow)
D1-X2 FRONTAGE ROAD (With Arrow)
D1-X3 SANITARY LANDFILL (With Arrow)
D1-X4 AIRPORT (With Arrow)
D1-X5 SOLID WASTE TRANSFER STATION (With Arrow)
D1-X6 RECYCLING CENTER (With Symbol & Arrow)
D1-X7 HHW CENTER (With Arrow)
D1-X8 DEMOLITION LANDFILL (With Arrow)

GROUP 2 – MILEAGE

GROUP 3 – STREET OR ROAD NAMES

D3-X1 Mast Arm Mounted Street Name

GROUP 4 – PARKING AREA

D4-1 PARKING (With Arrow)
D4-2 PARK & RIDE (With Arrow)
D4-2a..... PARK & RIDE (For on Site Use)

GROUP 5 – REST AREA

D5-X1 WAYSIDE REST ½ MILE ON RIGHT (LEFT)
D5-X1a..... FIREPLACES, TOILETS, WATER, TELEPHONE,
TOURIST INFO (Plaques)
D5-X1b HISTORICAL MARKER
D5-X1c..... GEOLOGICAL MARKER
D5-X2 WAYSIDE REST (With Arrow)

GROUP 6 – SCENIC AREA

D6-2a..... SCENIC OVERLOOK ½ MILE ON RIGHT (LEFT)
D6-3a..... SCENIC OVERLOOK (With Arrow)

GROUP 7 – RECREATION AND CULTURAL AREAS

D7-X1 GEOLOGICAL MARKER ½ MILE ON RIGHT (LEFT)
D7-X2 GEOLOGICAL MARKER (With Arrow)
D7-X5 HISTORICAL MARKER ½ MILE ON RIGHT (LEFT)
D7-X5a..... HISTORIC SITE ½ MILE ON RIGHT (LEFT)
D7-X6 HISTORICAL MARKER (With Arrow)
D7-X7 Public Boat Launch (With Arrow & Symbol)
D7-X7a..... Public Canoe Access (With Arrow & Symbol)

D7-X8	Boat Launch Trailblazer (Symbol)
D7-X8a.....	Canoe Launch Trailblazer (Symbol)
D7-X9	STATE PARK (With Arrow)
D7-X10	CITY PARK (With Arrow)
D7-X11	HISTORIC SITE (With Arrow)
D7-X11A	HISTORIC DISTRICT (With Arrow)
D7-X12	COUNTY MUSEUM (With Arrow)
D7-X13	Downhill Ski Area (Symbol)
D7-X14	Cross Country Ski Area (Symbol)
D7-X15	COUNTY PARK (With Arrow)
D7-15a.....	COUNTY PARK (With Arrow & Mileage)
D7-X16	COUNTY FAIRGROUND (With Arrow)
D7-X17	INDUSTRIAL PARK (With Arrow)
D7-X18	WORKFORCE CENTER (With Arrow)
D7-X19	HIGH SCHOOL (With Arrow)
D7-X20	PICNIC GROUNDS (With Arrow)
D7-X21	GOLF COURSE (With Arrow)
D7-X22	DISC GOLF COURSE (With Arrow)
D7-Xp	24" Recreational & Cultural Interest Symbol Signs
D7-Xp	18" Recreational & Cultural Interest Symbol Signs

GROUP 8 – WEIGH STATIONS

GROUP 9 – MOTORIST SERVICES

D9-1a.....	Phone Symbol (With Arrow)
D9-1b.....	Phone Symbol (With Mileage)
D9-1p.....	TTY Symbol
D9-2a.....	Hospital Trailblazer (With Symbol, Arrow, Blocks)
D9-2b.....	Hospital Directional (Non Freeway)
D9-10a.....	TOURIST INFO (With Arrow)
D9-X1	Disabled Services (With Arrow) (Freeway Rest Area)
D9-X2	Disabled Services (Symbol) (Non Freeway Use)
D9-X3	RESORTS (With Arrows)
D9-X4	CAMPING (With Arrows)
D9-X6	Specific Service Signing

GROUP 10 – MILEPOSTS

D10-1	Milepost Marker
D10-2	Milepost Marker
D10-3	Milepost Marker
D10-5a.....	Enhanced Mile Marker
D10-X2	Highway Number Plate

GROUP 11 – TRAILS

D11-1	BIKE ROUTE (With Symbol)
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GROUP 12 – MISCELLANEOUS

D12-2a.....	GOING TO WORK? TRY RIDESHARE (With Phone #)
D12-2B.....	SHARE THE RIDE (With Phone #)
D12-4m.....	EMERGENCY DIAL 911
D12-5a.....	ROAD/WEATHER INFORMATION 511

"I" SERIES: INFORMATIONAL

GROUP 1 –

I1-1..... SIGNALS SET FOR __ MPH

GROUP 2 – BOUNDARIES

I2-3..... City Name Marker (With Population)

I2-5..... County Name Marker

GROUP 2 – BOUNDARIES - CONTINUED

I2-10..... WELCOME TO MINNESOTA

I2-12..... VISIT AGAIN

GROUP 3 – GEOGRAPHICAL

I3-1..... Lake or Stream Name Marker

GROUP 4 – GENERAL INFORMATION

I-5..... Airport (Symbol)

I-8..... Library (Symbol)

I-11m..... Recycle (Symbol)

I-X1..... ADOPT A HIGHWAY (REST AREA)

I-X1p..... DISPOSAL BY __

"E" SERIES: GUIDE SIGNS – EXPRESSWAY, FREEWAY

GROUP 1 – DESTINATION OR INTERCHANGE

E1-6..... FREEWAY ENTRANCE

GROUP 2 – NEXT EXIT SUPPLEMENTAL

GROUP 3 – SUPPLEMENTAL GUIDE

E3-X1..... HOSPITAL (Overlay)

GROUP 4 – EXIT DIRECTIONAL

GROUP 5 – GORE SIGNS

E5-1..... EXIT (With Arrow)

E5-1b..... 72" x 60" EXIT (With Arrow and Exit Number)

E5-1b..... 84" Height EXIT (With Arrow and Exit Number)

E5-2m..... REST AREA (With Arrow)

GROUP 6 – OVERHEAD GORE SIGNS

GROUP 7 – MILEAGE

GROUP 8 – INTERCHANGE SEQUENCE

GROUP 9 – NEXT EXITS

GROUP 10 – MOTORIST SERVICES

E10-1..... GAS – DIESEL – E85 – LP-GAS – FOOD –
LODGING – CAMPING EXIT __

E10-1 Supplement..... E10-1 Overlays

E10-3..... HOSPITAL EXIT __ (NEXT) (SECOND) RIGHT

E10-4..... HOSPITAL __ MI (With Arrow)

E10-5..... GAS (With Arrows)
 E10-6..... FOOD (With Arrows)
 E10-7..... LODGING (With Arrows)
 E10-8..... HOSPITAL (With Arrow)
 E10-9..... CAMPING (With Arrows)
 E10-10..... DIESEL (With Arrows)
 E10-11..... LP-GAS (With Arrows)
 E10-12..... E85 (With Arrows)

GROUP 11 – EXIT ONLY WARNING

E11-1b..... ONLY (Overlay)
 E11-X1..... LEFT EXIT (Overlay)
 E11-X2..... PROHIBITED VEHICLES (Overlay)

GROUP 12 – TERMINATION

E12-1..... FREEWAY ENDS __ MILE

“X” SERIES: MISCELLANEOUS

GROUP 1 – GENERAL INFORMATION

X1-1..... BEGIN __ MILE ODOMETER CHECK __ FT AHEAD
 X1-2..... BEGIN (END) ODOMETER CHECK HERE
 X1-3..... MILE __ (Odometer Check)
 X1-5..... AIRCRAFT APPROACH AREA

GROUP 2 –

GROUP 3 – STATE PROPERTY

X3-1..... R/W Boundary Marker
 X3-2..... R/W Access Control Marker
 X3-3..... Scenic Easement Marker
 X3-4..... __ FEET (Scenic Easement)
 X3-6A..... KEEP OFF – INFILTRATION AREA

GROUP 4 – MARKERS

X4-2..... Hazard Marker
 X4-3..... Culvert Marker
 X4-4..... Clearance Marker
 X4-5..... Snowplow Marker
 X4-6..... Guide Delineator
 X4-7..... Alignment Delineator
 X4-8..... One Tenth Mile Delineator
 X4-11..... End of Roadway Marker
 X4-12..... BRIDGE NO. __
 X4-13..... Cylinder Style Delineator
 X4-24..... Fire Hydrant Sign

STANDARD SIGN DETAILS

TITLE	PAGE NUMBER
Fractions	101
Arrows.....	102
Double Head Arrows	102A
Double Head Arrows – 90°	102B
Advance Turn Arrows – 45°	103
Advance Turn Arrows – 90°	104
Stringer and Panel Joint Detail.....	105
Signal Mast Arm Mounted Sign Details.....	105A
Punching Codes A, B, C	106
Punching Codes D, E, F	107
Punching Codes G, H, M	108
Punching Codes J, K, L	109
Corner Radii, Margins, and Borders	110

PAVEMENT MESSAGES

NUMBER	TITLE
PM-1	Straight Arrow
PM-2.....	Turn Arrow
PM-3.....	Turn & Straight Arrow
PM-4.....	Left & Right Turn Arrow
PM-5.....	Left & Right Turn, Straight Arrow
PM-6.....	Transition Arrow
PM-7.....	Word Messages
PM-8.....	Bike Lane Symbol
PM-9.....	Bike Trail Symbol
PM-10.....	HOV Symbol
PM-11	RR Crossing Message
PM-12.....	Do Not Tailgate Pavement Dot