## MDT DETAILED DRAWINGS – SEPTEMBER 2014 EDITION SUPPLEMENTAL RELEASE (JANUARY 2018) SUMMARY

<u>Note</u>: All Detailed Drawings have an Effective Date of September 2014, unless there is an effective date noted in the Supplemental column of the table below.

For more detailed information on these drawings or any of the drawings not listed, please e-mail: <a href="mailto:mdtdetaileddrawings@mt.gov">mdtdetaileddrawings@mt.gov</a> or contact the Construction Administration Services Bureau at (406) 444-0464. You may also contact the MDT/MSU Design Section at (406) 994-1859 for any inquiries or comments on the Detailed Drawings.

| <del></del>             | MDT Detailed Drawings – September 2014 Edition |   |  |  |
|-------------------------|--|---|--|--|
| Detailed<br>Drawing No. | Supplemental<br>Release Date                   | Detailed Drawing<br>Title                                 | Remarks  |  |
| TTL1                    | January 2018                                   | Title Sheet   | Update to reflect new supplemental release date. |  |
| TOC1                    | January 2018                                   | Table of Contents   | Update to reflect Dtl. Dwg's. changes.           |  |
| TOC2                    | January 2018                                   | Table of Contents   | Update to reflect Dtl. Dwg's. changes.           |  |
| TOC3                    | January 2018                                   | Table of Contents   | Update to reflect Dtl. Dwg's. changes.           |  |
| TOC4                    | January 2018                                   | Table of Contents   | Update to reflect Dtl. Dwg's. changes.           |  |
| TOC5                    | January 2018                                   | Table of Contents   | Update to reflect Dtl. Dwg's. changes.           |  |
| TOC6                    | January 2018                                   | Table of Contents   | Update to reflect Dtl. Dwg's. changes.           |  |
| TOC7                    | January 2018                                   | Table of Contents   | Update to reflect Dtl. Dwg's. changes.           |  |
| 101-05                  |  | Abbreviations   |  |  |
| 101-06                  |  | Abbreviations   |  |  |
| 101-07                  |  | Abbreviations   |  |  |
| 101-08                  |  | Abbreviations   |  |  |
| 101-10                  |  | Symbols   |  |  |
| 203-05                  |  | Approaches  |  |  |
| 203-20                  |  | Ditch Blocks  |  |  |
| <del>208-00</del>       |  | Schedule of Best Management Practices                     | Rescinded (March 2017) - BMP Manual              |  |
| <del>208-04</del>       |  | Hydraulic Mulch (SS-3)                                    | Rescinded (March 2017) - BMP Manual              |  |
| <del>208-08</del>       |  | Soil Binders (EC-5)                                       | Rescinded (March 2017) - BMP Manual              |  |
| <del>208-10</del>       |  | Straw Mulch (EC-6)  | Rescinded (March 2017) - BMP Manual              |  |
| <del>208-12</del>       |  | Rolled Erosion Control Products (EC-7)                    | Rescinded (March 2017) - BMP Manual              |  |
| <del>208-16</del>       |  | Earth Dikes/Drainage Swales & Lined Ditches (EC-9)        | Rescinded (March 2017) - BMP Manual              |  |
| <del>208-18</del>       |  | Temporary Outlet and Velocity Dissipation Devices (EC-10) | Rescinded (March 2017) - BMP Manual              |  |
| <del>208-20</del>       |  | Temporary Slope Drains (EC-11)                            | Rescinded (March 2017) – BMP Manual              |  |
| <del>208-22</del>       |  | Slope Roughening (EC-12)                                  | Rescinded (March 2017) - BMP Manual              |  |
| <del>208-26</del>       |  | Vegetated Buffer (EC-14)                                  | Rescinded (March 2017) – BMP Manual              |  |
| <del>208-30</del>       |  | Silt Fence (SC-1)   | Rescinded (March 2017) – BMP Manual              |  |
| <del>208-32</del>       |  | <del>Design Basin (SC-2)</del>                            | Rescinded (March 2017) - BMP Manual              |  |
| <del>208-34</del>       |  | Sediment Trap (SC-3)                                      | Rescinded (March 2017) – BMP Manual              |  |
| <del>208-36</del>       |  | Check Dams (SC-4)   | Rescinded (March 2017) - BMP Manual              |  |
| <del>208-38</del>       |  | Fiber Rolls (SC-5)  | Rescinded (March 2017) – BMP Manual              |  |
| <del>208-40</del>       |  | Gravel Bag Berm (SC-6)                                    | Rescinded (March 2017) - BMP Manual              |  |
| <del>208-42</del>       |  | Sand Bag Barriers (SC-8)                                  | Rescinded (March 2017) – BMP Manual              |  |
| <del>208-44</del>       |  | Straw Bale Barriers (SC-9)                                | Rescinded (March 2017) – BMP Manual              |  |
| <del>208-46</del>       |  | Storm Drain Inlet Protection (SC-10)                      | Rescinded (March 2017) - BMP Manual              |  |
| <del>208-48</del>       |  | Dugout Ditch Basin (SC-11)                                | Rescinded (March 2017) - BMP Manual              |  |
| <del>208-56</del>       |  | Stabilized Construction Entrance/Exit (TC-1)              | Rescinded (March 2017) – BMP Manual              |  |
| <del>208-58</del>       |  | Entrance/Exit Tire Wash (TC-3)                            | Rescinded (March 2017) - BMP Manual              |  |
| <del>208-60</del>       |  | Temporary Stream Crossings (NS-4)                         | Rescinded (March 2017) - BMP Manual              |  |
| 301-00                  |  | Roadway Embankment at Bridge End                          |  |  |
| 411-02                  | January 2018                                   | Shoulder Rumble Strips                                    | Shoulder Dimension                               |  |
| 411-03                  | January 2018                                   | Modified Shoulder Rumble Strips                           | New (January 2018)                               |  |
| 411-05                  | January 2018                                   | Centerline Rumble Strips                                  | Depth/Span Table changes                         |  |
| 501-00                  |  | PCCP Joints   |  |  |
| 501-05                  |  | PCCP Isolation Joints                                     |  |  |

| MDT Detailed Drawings – September 2014 Edition  Detailed Supplemental Detailed Drawing Barnestee |              |  |   |  |
|--|--------------|--|---|--|
| Drawing No.  |              | Title  | Remarks   |  |
| 501-10   |              | PCCP Isolation Joints  |   |  |
| 501-15   |              | PCCP Repair  |   |  |
| 501-20   |              | Dowel Bar Retrofit for PCCP  |   |  |
| 501-25   |              | Dower Bar Retrofit for PCCP  |   |  |
| 552-00   | January 2018 | Concrete Cutoff Walls For Culverts   | Updated culvert bedding and hydraulic standards.                                |  |
| 552-04   | January 2018 | Concrete, Riprap and Bedding Material Quantities For Sing. and Dbl. Culvert Installation | Updated culvert bedding and hydraulic standards.                                |  |
| 552-06   | January 2018 | Concrete, Riprap and Bedding Material Quantities For Sing. and Dbl. Culvert Installation | Updated culvert bedding and hydraulic standards.                                |  |
| 552-08   | January 2018 | Concrete, Riprap and Bedding Material Quantities For Sing. and Dbl. Culvert Installation | Updated culvert bedding and hydraulic standards.                                |  |
| 603-02   |              | CMP Flared End Terminal Section (FETS)   |   |  |
| 603-08   |              | Prefabricated RCP Flared End Terminal Section (FETS)                                     |   |  |
| 603-08   |              | Prefabricated RCP Flared End Terminal Section (FETS) (Metric)                            |   |  |
| 603-10   |              | Prefabricated RCP Arch Flared End Terminal Section (FETS)                                |   |  |
| 603-12   |              | RCP Road Approach Culvert End Treatment (RACET)  |   |  |
| 603-14   |              | CMP Road Approach Culvert End Treatment (RACET)  |   |  |
| 603-17   |              | Precast Median U-Turn Cross Drain and Conc. Beveled End                                  |   |  |
| 603-18   | January 2018 | Bedding for Mainline & Public Approach Culverts 48"<br>(1200mm) Equivalent & Smaller     | Updated culvert bedding and hydraulic standards.                                |  |
| 603-19   | January 2018 | Bedding for Culverts 54" (1350 mm) Equivalent or Larger                                  | Updated culvert bedding and hydraulic standards.                                |  |
| 603-20   | January 2018 | Trench Bedding Detail  | Updated culvert bedding and hydraulic standards.                                |  |
| 603-22   |              | Water Tight Joint For Reinforced Concrete Pipe   |   |  |
| 603-24   |              | Reinforced Concrete Pipe Joint   |   |  |
| 603-26   |              | Typical Field Cast Concrete Connections  |   |  |
| 603-27   |              | CTX Adapter  |   |  |
| 603-28   |              | Embankment Protector   |   |  |
| 603-30   | January 2018 | Vehicular Underpass and Backfill Retainer & Cutoff Wall<br>Detail                        | Updated culvert bedding and hydraulic standards.                                |  |
| 603-30   |              | Vehicular Underpass and Backfill Retainer & Cutoff Wall Detail (Metric)                  |   |  |
| 603-31   |              | Vehicular Underpass PCCP Transverse Joint & Backfill<br>Retainer Detail                  |   |  |
| 603-32   | January 2018 | Step Bevel For Circular Metal Culvert  | Updated culvert bedding and hydraulic standards.                                |  |
| 603-34   | January 2018 | Bevel on Arch Metal Culvert  | Updated arch pipe areas.<br>Updated culvert bedding and hydraulic<br>standards. |  |
| 603-36   | January 2018 | Corrugated Steel Pipe Stockpass  | Updated culvert bedding and hydraulic standards.                                |  |
| 604-00   | January 2018 | Median Inlet   | Pipe Callout  |  |
| 604-02   |              | Concrete Manhole   |   |  |
| 604-03   |              | Curb Inlet Type II   |   |  |
| 604-04   |              | Drop Inlet Type IV   |   |  |
| 604-06   |              | Type IV Drop Inlet With Slotted Drain  |   |  |
| 604-08   |              | Type II Curb Inlet With Slotted Drain  |   |  |
| 604-14   |              | Drop Inlets type I and V   |   |  |
| 604-16   |              | Drop Inlets Type III and VI  |   |  |
| 604-18   |              | Type A and B Curb Inlets   |   |  |
| 605-00   | March 2017   | Concrete Barrier Rail  | New (July 2016) – Moved from 606-60<br>Revised rebar structure.                 |  |
| 605-05   | March 2017   | Concrete Barrier Rail Anchors  | New (July 2016) – Moved from 606-62<br>Modified Note 1.                         |  |
| 605-10   | March 2017   | Tall Concrete Barrier Rail   | New (July 2016) – Moved from 606-64<br>Revised rebar structure.                 |  |

| Detailed | MDT Detailed Drawings – September 2014 Edition  Detailed Supplemental Detailed Drawing |   |  |  |
|----------|--|---|--|--|
|          | Release Date   | Title   | Remarks  |  |
| 605-15   | March 2017   | Concrete Barrier Rail Transition  | New (July 2016) – Moved from 606-66<br>Revised rebar structure.                      |  |
| 605-20   | March 2017   | Concrete Barrier Rail Terminal Section (One-Way<br>Departure)             | New (July 2016) – Moved from 606-68<br>Revised rebar structure.                      |  |
| 606-05A  | January 2018   | Metal Guardrail Standard - Wood Posts  Metal Guardrail - Wood Posts (MGS) | Modified for MGS W-Beam  |  |
| 606-05B  |  | Metal Guardrail Standard - Steel Posts                                    | Modified for MGS W-Beam  |  |
|          | January 2018   | Metal Guardrail – Steel Posts (MGS) Stiffened Guardrail Sections          |  |  |
| 606-07   | January 2018   | Stiffened Guardrail Sections (MGS)  | Modified for MGS W-Beam  |  |
| 606-09   |  | Nested W-Beam Guardrail   | Modified for MGS W-Beam  |  |
| 000-09   | January 2018   | Long Span Guardrail (MGS)   | Modified for MGS W-Bearif  |  |
| 606-11A  |  | Metal Guardrail - Long Posts (Wood)                                       | Modified for MGS W-Beam  |  |
|          | January 2018   | Metal Guardrail – Long Posts – Wood (MGS)                                 | Wednesd for West W Bearing   |  |
| 606-11B  |  | Metal Guardrail - Long Posts (Metal)                                      | Modified for MGS W-Beam  |  |
|          | January 2018   | Metal Guardrail – Long Posts – Steel (MGS)                                |  |  |
| 606-13A  | <del>July 2016</del>   | Optional Terminal Section - ET-PLUS                                       | Note 10 was added to use routed wood<br>blocks or other NCHRP 350 approved<br>blocks |  |
| 606-13B  | <del>July 2016</del>   | Optional Terminal Section - SKT 350                                       | Note 9 was added to use routed wood blocks or other NCHRP 350 approved blocks        |  |
| 606-13   | January 2018   | MASH Optional Terminal Sections   | New (January 2018)   |  |
| 606-18   |  | One-Way Departure Terminal Section  | Modified for MGS W-Beam  |  |
|          | January 2018   | One-Way Departure Terminal Section (MGS)                                  |  |  |
| 606-20   | January 2018   | MGS to Metal Guardrail Transition   | New (January 2018)   |  |
| 606-23A  | January 2018   | MGS Thrie Beam Bridge Approach Section – Wood Posts                       | New (January 2018)   |  |
| 606-23B  | January 2018   | MGS Thrie Beam Bridge Approach Section – Steel Posts                      | New (January 2018)   |  |
| 606-24A  | July 2016  | Bridge Approach Sections - Wood Posts                                     | STD. BIT. CURB was replaced with STD CONC. CURB                                      |  |
| 606-24B  | July 2016  | Bridge Approach Sections - Steel Posts                                    | STD. BIT. CURB was replaced with STD CONC. CURB                                      |  |
| 606-25A  |  | Skewed Bridge Approach Sections - Wood Posts                              |  |  |
| 606-25B  |  | Skewed Bridge Approach Sections - Steel Posts                             |  |  |
| 606-26   |  | Tapered Concrete Curb Detail  |  |  |
| 606-27   | July 2016  | Tapered Concrete Curb Detail  | Revised Class General Concrete Note  |  |
| 606-30A  |  | Impact Attenuator - Quadguard   |  |  |
| 606-30B  |  | Impact Attenuator - TRACC   |  |  |
| 606-30B  |  | Impact Attenuator – TRACC (Metric)  |  |  |
| 606-30C  |  | Impact Attenuator – Quest   |  |  |
| 606-30C  |  | Impact Attenuator – Quest (Metric)  |  |  |
| 606-30D  |  | Impact Attenuator - Quadguard II  |  |  |
| 606-31A  |  | Impact Attenuator – Quadguard Assembly Details                            |  |  |
| 606-31B  |  | Impact Attenuator – TRACC Assembly Details                                |  |  |
| 606-31B  |  | Impact Attenuator – TRACC Assembly Details (Metric)                       |  |  |
| 606-31C  |  | Impact Attenuator – Quest Assembly Details                                |  |  |
| 606-31C  |  | Impact Attenuator – Quest Assembly Details (Metric)                       |  |  |
| 606-31D  |  | Impact Attenuator – Quadguard II Assembly Details                         |  |  |
| 606-40   | January 2018   | <del>Cable Guardrail</del><br>Low-Tension Cable Guardrail                 | Renamed Drawing  |  |
|          | 2  | Cable Guardrail Terminal Anchor Assembly                                  |  |  |
| 606-41   | January 2018   | Low-Tension Cable Guardrail Terminal Anchor Assembly                      | Renamed Drawing  |  |
|          | , 20.0   | Intersecting Roadway Terminal Section                                     |  |  |
| 606-46   | January 2018   | Intersecting Roadway Terminal Section (MGS)                               | Modified for MGS W-Beam  |  |
| 606-50   | 2220.7 2010  | Box Beam Guardrail  |  |  |
| 606-52   |  | Box Beam One-Way Departure Terminal Section                               |  |  |
| 606-53   |  | Box Beam Bridge Approach Section – Types 1 & 2                            |  |  |
| 606-53A  | 1  | Box Beam Bridge Approach Section – Types 1 & 2                            | <del> </del>   |  |

| MDT Detailed Drawings – September 2014 Edition  Detailed Supplemental Detailed Drawing Detailed Drawing |                      |   |   |
|---|----------------------|---|---|
| Detailed<br>Drawing No.   | Release Date         | Title   | Remarks   |
| 606-54  |                      | Box Beam One-Way Bridge Departure Section                       |   |
| 606-55A   |                      | Optional Box Beam Terminal Section - WY-BET                     |   |
| 606-55B   |                      | Optional Box Beam Terminal Section - BEAT                       |   |
| 606-56A   | July 2016            | WY-BET Box Beam Terminal Section Details                        | Anchor assembly and section pay limits revised                    |
| 606-56B   | January 2018         | BEAT Box Beam Terminal Section Details                          | Reference to Note 2   |
|   | <del>July 2016</del> | Box Beam to W-Beam Transition Section                           | Revised 6:1 SLOPE BREAK LINE 10'                                  |
| 606-58  | January 2018         | Box Beam to W-Beam Transition Section (MGS)                     | label<br>Modified for MGS W-Beam                                  |
| 606-60  |                      | Concrete Barrier Rail   | Rescinded (July 2016) – Moved to 605-<br>00                       |
| 606-62  |                      | Concrete Barrier Rail Anchers                                   | Rescinded (July 2016) – Moved to 605-<br>05                       |
| 606-64  |                      | Tall Concrete Barrier Rail                                      | Rescinded (July 2016) – Moved to 605-<br>10                       |
| 606-66  |                      | Concrete Barrier Rail Transition                                | Rescinded (July 2016) – Moved to 605-<br>15                       |
| 606-68  |                      | Concrete Barrier Rail Terminal Section (One-Way<br>Departure)   | Rescinded (July 2016) – Moved to 605-<br>20                       |
| 606-80  | January 2018         | Schedule of Guardrail Hardware                                  | Modified for MGS W-Beam   |
| 606-82  |                      | Guardrail Hardware  |   |
| 606-84  |                      | W-Beam Metal Guardrail Hardware                                 |   |
| 606-88  |                      | W-Beam Metal Guardrail Hardware                                 |   |
| 000.00  |                      | Cable Guardrail Hardware  | 5 15 .  |
| 606-92  | January 2018         | Low-Tension Cable Guardrail Hardware                            | Renamed Drawing   |
|   | Í                    | Cable Guardrail Hardware  |   |
| 606-94  | January 2018         | Low-Tension Cable Guardrail Hardware                            | Renamed Drawing   |
|   | , , , , ,            | Cable Guardrail Hardware  |   |
| 606-95  | January 2018         | Low-Tension Cable Guardrail Hardware                            | Renamed Drawing   |
| 606-97  | , , , , ,            | Box Beam Guardrail Hardware                                     |   |
| 606-98  |                      | Box Beam Guardrail Hardware                                     |   |
| 606-99  |                      | Box Beam Guardrail Hardware                                     |   |
| 607-00  |                      | Farm Fence  |   |
| 607-01  |                      | Wildlife Friendly Fence   |   |
| 607-02  |                      | Farm Entrance Gates   |   |
| 607-05  | January 2018         | Fence Details   | Added Metal Panel   |
| 607-10  | canaary 2010         | Fence Details   | riddd metal i dnei  |
| 607-15  |                      | Fence Details   |   |
| 607-17  | January 2018         | Fence Details   | New (January 2018) – Stock Pass                                   |
| 607-20  | July 2016            | Fencing at Right of Way Breaks                                  | Revised treated 2x6's and added 3-inch exterior grade screws.     |
| 607-25  | July 2016            | Chain Link Fence  | Tensioner and brace band removed lower tension wire.              |
| 607-30  |                      | 8' (2.4 m) Wood Snow Fence W/ Anchor System #1                  |   |
| 607-35  |                      | 12' (3.6 m) Wood Snow Fence W/ Anchor System #1                 |   |
| 607-40  |                      | Wood Snow Fence Anchor System #3 and #1 Details                 |   |
| 607-45  |                      | Wood Snow Fence Anchor System #2 Details                        |   |
| 607-50  |                      | Wildlife Fence  | <u> </u>  |
| 607-55  |                      | Jackleg Wire Fence  |   |
| 607-60  |                      | Jackleg Pole Fence  |   |
| 608-05  | July 2016            | Concrete Sidewalk   | Vehicle approach detail angle fillets in boulevard like one above |
| 608-15  |                      | New Construction Public Sidewalk Curb Ramps                     | Soulovard line offe above   |
| 608-20  |                      | Alterations to Existing Facilities - Public Sidewalk Curb Ramps |   |
| 608-25  |                      | Perpendicular Public Sidewalk Curb Ramps                        |   |
| 608-30  |                      | Parallel Public Sidewalk Curb Ramps                             |   |
| 608-35  |                      | Diagonal Perpendicular Public Sidewalk Curb Ramps               |   |
|   | 1                    | Detectable Warning Devices                                      | 1   |

| MDT Detailed Drawings – September 2014 Edition |                              |   |  |  |
|--|------------------------------|---|--|--|
| Detailed<br>Drawing No.                        | Supplemental<br>Release Date | Detailed Drawing<br>Title   | Remarks  |  |
| 609-00   | July 2016                    | Concrete Valley Gutter  | Revised to show epoxy coated reinforcing bars.   |  |
| 609-05   |                              | Miscellaneous Curbs   |  |  |
| 609-07   | July 2016                    | Drop Inlet Aprons   | Revised to show epoxy coated reinforcing bars.   |  |
| 609-10   |                              | Median Concrete Curbs   |  |  |
| 609-12   |                              | Concrete Median Caps  |  |  |
| 610-00   |                              | Topsoil and Seeding   |  |  |
| 610-05   |                              | Turf Reinforcement Mat (TRM) and Rolled Erosion Control (REC)                       | Renamed Drawing  |  |
|  | July 2016                    | Rolled Erosion Control (REC)  |  |  |
| 611-00   | July 2016                    | Heavy Duty Cattle Guard Cast-in-Place   | Revised SECTION D and added "Heavy Duty" to title.   |  |
| 611-03   | July 2016                    | Cattle Guard Hinged Grate   | New (July 2016)  |  |
| 611-05   |                              | Cast-in-Place Cattle Guard Rebar Details  |  |  |
| 611-10   |                              | Light Duty Cattle Guard Precast   |  |  |
| 611-10   |                              | Light Duty Cattle Guard Precast (Metric)  |  |  |
| 611-15   |                              | Heavy Duty Cattle Guard - Precast   |  |  |
| 611-20   |                              | Precast Concrete Cattle Guard Base Details  |  |  |
| 613-06   | January 2018                 | Concrete Edge Protection For Metal Culverts   | Updated culvert bedding and hydraulic standards.   |  |
| 613-08   | January 2018                 | Concrete Edge Protection For Concrete Culverts                                      | Updated culvert bedding and hydraulic standards.   |  |
| 613-10   |                              | Concrete Slope Protection   |  |  |
| 613-12   |                              | Inlet and Outlet Headwalls For RCP and CMP Pipes                                    |  |  |
| 613-14   | January 2018                 | Culvert Riprap  | Updated culvert bedding and hydraulic standards.   |  |
| 613-16   |                              | Embankment Protection   | Renamed Drawing  |  |
|  | July 2016                    | Riprap Slope Protection   |  |  |
| 613-18   |                              | Drainage Chutes   |  |  |
| 615-02   |                              | Trashguard For Concrete Irrigation Inlet and Outlet Transition Structures           |  |  |
| 615-04   |                              | Standard Concrete Irrigation Division Boxes   |  |  |
| 615-06   |                              | Concrete Irrigation Inlet and Outlet Transition For RCP and CSP Pipes               |  |  |
| 618-00   | July 2016                    | Channelizing Devices and Object Markers   | Changed to 28-inch minimum for flexible guide post.  |  |
| 618-01   |                              | Construction Sign Details   |  |  |
| 618-02   |                              | Portable Sign Support Assembly  |  |  |
| 618-03   |                              | Barricades  |  |  |
| 618-04   | October 2017                 | Two-Lane Construction Project   | Sign layout regarding Fines Double sign.   |  |
| 618-08   | October 2017                 | Two-Lane Construction Project Work Zones  | Sign layout regarding Fines Double sign.   |  |
| 618-10   | October 2017                 | Two-Lane Construction Project Seal Coat   | Sign layout regarding Fines Double sign.   |  |
| 618-12   | October 2017                 | Two-Lane Construction Project Lane Closure – Flagger Controlled                     | Sign layout regarding Fines Double sign.   |  |
| 618-13   | October 2017                 | Two-Lane Construction Project Lane Closure – Signal<br>Controlled                   | Sign layout regarding Fines Double sign.   |  |
| 618-14   | October 2017                 | Two-Lane Equipment Entrances  | Sign layout regarding Fines Double sign.   |  |
| 618-16   | October 2017                 | Two-Lane Equipment Entrances  | Sign layout regarding Fines Double sign.   |  |
| 618-18   | October 2017                 | Two-Lane Construction Project Diversion   | Sign layout regarding Fines Double sign.   |  |
| 618-20   | October 2017                 | Divided Four-Lane Construction Project  | Sign layout regarding Fines Double sign.   |  |
| 618-21   | October 2017                 | Temporary Evit Romp Median Crossing   | Sign layout regarding Fines Double sign.   |  |
| 618-22   | October 2017                 | Temporary Exit Ramp Median Crossing   | Sign layout regarding Fines Double sign.   |  |
| 618-24   | October 2017                 | Divided Four Lane Construction Project Work Zones                                   | Sign layout regarding Fines Double sign.   |  |
| 618-27   | October 2017                 | Divided Four Lane Regipment Entrance  | Sign layout regarding Fines Double sign.   |  |
| 618-28<br>618-30                               | October 2017 October 2017    | Divided Four-Lane Median Crossings  Temporary Four-Lane to Two-Lane Median Crossing | Sign layout regarding Fines Double sign. Changed legend regarding raised rigid pavement markers. |  |
| 010-00   |                              |   | Sign layout regarding Fines Double sign.   |  |

| MDT Detailed Drawings – September 2014 Edition |                              |  |   |
|--|------------------------------|--|---|
| Detailed<br>Drawing No.                        | Supplemental<br>Release Date | Detailed Drawing<br>Title  | Remarks   |
| 618-32   | October 2017                 | Temporary Two-Lane to Four-Lane Median Crossing  | Changed legend regarding raised rigid pavement markers. Sign layout regarding Fines Double sign |
| 618-33   | October 2017                 | Divided Four-Lane Single Lane Closure Lane Shift   | New (July 2016) Sign layout regarding Fines Double sign   |
| 618-34   | October 2017                 | Short Duration or Short-Term Stationary Crew Signing                                       | Sign layout regarding Fines Double sign   |
| 618-M1   | October 2017                 | Maintenance Guideline For Short-Term Two-Lane Crack<br>Sealing Work Zone                   | Sign layout regarding Fines Double sign   |
| 618-M2   | October 2017                 | Maintenance Guideline For Short-Term Two-Lane Chip Seal & Overlay (Piloted Traffic)        | Sign layout regarding Fines Double sign   |
| 618-M3   | October 2017                 | Maintenance Guideline For Short-Term Lane Closure on Interstate                            | Sign layout regarding Fines Double sign   |
| 618-M4   | October 2017                 | Mobile Operations  | Sign layout regarding Fines Double sign   |
| 618-U01  | October 2017                 | Lane Closure- Flagger Controlled (Urban Two-Lane, Two-<br>Way Road)                        | Sign layout regarding Fines Double sign   |
| 618-U02  | October 2017                 | Work Zone Occupies one Half of the Road (Low Speed Urban, Two-Lane, Two-Way Road)          | Sign layout regarding Fines Double sign   |
| 618-U03  | October 2017                 | Work Zone in the Center of the Road (Urban Two-Lane,<br>Two-Way Road)                      | Sign layout regarding Fines Double sign   |
| 618-U05  | October 2017                 | Sidewalk Closures and Bypass Walkway   | Sign layout regarding Fines Double sign   |
| 618-U10  | October 2017                 | Crosswalk Closures and Pedestrian Detours  | Sign layout regarding Fines Double sign   |
| 618-U15  | October 2017                 | Lane Closure (Urban Two-Lane, Two-Way Road with Two-<br>Way Left Turn Lane)                | Sign layout regarding Fines Double sign   |
| 618-U16  | October 2017                 | Turn Lane Closure (Urban Two-Lane, Two-Way Road with Two-way Left Turn Lane)               | Sign layout regarding Fines Double sign   |
| 618-U20  | October 2017                 | Right Lane Closure (Urban Multi-Lane, Undivided Road)                                      | Sign layout regarding Fines Double sign   |
| 618-U25  | October 2017                 | Left Lane Closure (Low Speed Urban Multi-Lane, Undivided Road)                             | Sign layout regarding Fines Double sign   |
| 618-U30  | October 2017                 | Left Lane Closures (Low Speed Urban Multi-Lane,<br>Undivided Road)                         | Sign layout regarding Fines Double sign   |
| 618-U35  | October 2017                 | Double Lane Closure (Urban Multi-Lane, Undivided Road)                                     | Sign layout regarding Fines Double sign   |
| 618-U40  | October 2017                 | Right Lane Closure – Work Zone Beyond Intersection (Urban Multi-Lane, Undivided Road)      | Sign layout regarding Fines Double sign   |
| 618-U45  | October 2017                 | Left Lane Closure – Work Zone Beyond Intersection (Urban Multi-Lane, Undivided Road)       | Sign layout regarding Fines Double sign   |
| 618-U50  | October 2017                 | Double Lane Closure at Intersection (Urban Multi-Lane, Undivided Road)                     | Sign layout regarding Fines Double sign   |
| 618-U60  | October 2017                 | Left Lane Closure (Urban Low Speed, Multi-Lane Undivided Road with Two-Way Left Turn Lane) | Sign layout regarding Fines Double sign   |
| 619-00   |                              | Sign Clearances and Mounting Heights   |   |
| 619-00   |                              | Sign Clearances and Mounting Heights (Metric)  |   |
| 619-02   |                              | Typical Rural and Urban Approaches   |   |
| 619-04   |                              | Aluminum Sheet Increment Sign Construction Details   |   |
| 619-06   |                              | Plywood Sheet Increment Guide Sign Construction Details                                    |   |
| 619-08   |                              | Guide Sign Clearance and Mounting Details  |   |
| 619-10   |                              | Sheet Aluminum Overlay   |   |
| 619-12   |                              | Tubular Sign Post Details  |   |
| 619-13   |                              | Breakaway and Foundation Details For Multiple Guide Sign Supports                          |   |
| 619-13   |                              | Breakaway and Foundation Details For Multiple Guide Sign Supports (Metric)                 |   |
| 619-14   | January 2018                 | Square Tubular Sign Post Breakaway Devices   | Revised SUPPORT and CORRESPONDING ANCHOR table  |
| 619-16   |                              | Typical Steel Post Mounting Details  |   |
| 619-18   |                              | Cantilever Type Sign Support Details For Sidewalk Areas                                    |   |
| 619-19   |                              | Structural Steel Post Sign Mounting Details  |   |
| 619-20   |                              | Treated Wood Pole Sign Mounting and Support Details  |   |
| 619-21   |                              | Treated Wood Pole Sign Mounting Details Treated Wood Pole Optional Backbrace               |   |
| 619-22   |                              |  |   |

|                      | MDT Detailed Drawings – September 2014 Edition |   |  |  |
|----------------------|--|---|--|--|
| Detailed Drawing No. | Supplemental<br>Release Date                   | Detailed Drawing<br>Title   | Remarks  |  |
| 619-26               |  | Special Design Route Marker Panels and Shields  |  |  |
| 619-30               |  | Sign Hinge Details  |  |  |
| 619-32               |  | Milepost (Reference Post) Details   |  |  |
| 619-34               |  | Delineator Details  |  |  |
| 619-36               |  | Delineator Placement Details  |  |  |
| 619-38               |  | Object Marker Design and Placement Details For<br>Obstructions Adjacent to or Within Highways |  |  |
| 619-40               |  | Flexible Delineators  |  |  |
| 619-42               |  | Permanent Barricade Design Details  |  |  |
| 619-44               |  | Installation Date Tags  |  |  |
| 620-00               |  | Pavement Markings (Letters)   |  |  |
| 620-05               |  | Pavement Markings (Numbers)   |  |  |
| 620-10               |  | Pavement Markings (Words)   |  |  |
| 620-15               |  | Pavement Markings (Arrows)  |  |  |
| 620-20               | July 2016                                      | Pavement Markings (Symbols)   | Revised accessiblity parking space areas<br>and added note to use standard symbol<br>unless contract states otherwise. |  |
| 620-25               |  | Pavement Markings (Symbols)   |  |  |
| 621-00               |  | Manhole and Valve Box Adjustment Details  |  |  |
| 621-05               |  | Optional Manhole and Valve Box Adjustment Details   |  |  |
| 623-10               |  | Approach Mailbox Turnout  |  |  |
| 623-15               |  | Mailbox Turnout   |  |  |
| 623-20               |  | Mailbox Detail  |  |  |
| 623-25               |  | Optional Mailbox Detail   |  |  |
| 623-30               |  | Temporary Mailbox Support   |  |  |
| 623-35               |  | Temporary Mailbox Support Bracket Details   |  |  |
| 900-00               |  | U-Turn Median Openings on Controlled Access Highways  |  |  |
| 900-15               | July 2016                                      | Adjustable Monument Box   | Revised Note 3 regarding the requirements of a Montana Licensed Professional Land Surveyor.                            |  |