

2024 MASS Division 85 Summary of Changes

Section/ Detail	Article	Change
All Sections	All	Changed Section Number "70" to "85" and Section Title "Miscellaneous" to "Traffic Control Devices"
All Sections	All	Replaced pronouns with they/them/their
All	All	Updated Section numbering
All	All	Updated Detail numbering
All	All	Updated ASTM and AASHTO standards formatting
All	All	Updated Section and Detail references.
All	All	Changed footer from "2015 MASS" to "2024 MASS"
40.07		Moved Section 40.07 to Division 85 and renumbered to 85.11
40.07		Updated title of Section 85.11 to "Permanent Vertical Traffic Calming Devices"
40.07		Updated Section 40.07 to 85.11 Updated all references in Section 85.11 for "asphalt speed hump(s)" to "asphalt vertical traffic calming devices"
40.07	7.2	Updated Article 40.07.2 to 85.11.2 Cross Section Template Updated the first three sentences to read "Prior to construction, the Contractor shall submit two (2) cross-section templates for each type of device for approval by Engineer. One template shall be for the Contractor's quality assurance use, and the other shall be utilized by the Inspector. The Contractor shall construct templates of rigid materials such as wood or steel to match the vertical traffic calming device cross-section as shown on the Standard Details. "
40.07	7.4	Updated Article 40.07.4 to 85.11.4 Construction Replaced "Prior to paving" with "Prior to constructing the traffic calming device." in the fourth paragraph. Added the following paragraph after the last paragraph "The compacted pavement surface shall be within plus or minus one-fourth inch ($\pm 1/4$ ") as shown in the plans. Non-conforming surfaces shall be subject to rejection by the Engineer."
40.07	7.5	Updated Article 40.07.5 to 85.11.5 Measurement Updated first sentence to read "The vertical traffic calming devices shall be measured per each complete device accepted in place, in accordance with Section 11.4 – Construction maximum and minimum tolerances, and as shown on the Standard Details."
40.07	7.6	Updated Article 40.07.6 to 85.11.6 Basis of Payment Updated Pay Item " Asphalt Speed Hump" to "Asphalt Flat Top Speed Hump" Added Pay Items for "Sinusoidal Speed Hump" and "Asphalt Speed Cushion"
70.01	All	Updated Section 70.01 to Section 85.01. Updated Article 1.1 to read "The Work covered by these Specifications consists of providing all plant, labor, equipment, supplies, materials, transportation, handling and storage, and performing all operations in connection with traffic control devices as provided in this Division." Removed ASTM Standards A112, A120, A121, A227, A392, and AASHTO Standard M 145. Added ASTM Standards A1, A36, A653, B209, B449, B921, D4956, and E303.
70.09	All	Updated Section 70.09 to Section 85.02
70.10	All	Updated Section 70.10 to Section 85.03
70.10	10.1	Updated Article 70.10.1 to 85.03.1 and added the following after the first paragraph "This work shall included applying markings to curb and median nose at locations shown on the Drawings."

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70.10	10.2	Updated Article 70.10.2 to 85.03.2 Materials Added Part B Anti-Skid Aggregate "Anti-skid aggregate shall conform to the current State Specifications." Added to Part D Methyl Methacrylate "c. Methyl methacrylate traffic markings for extruded application shall be formulated with factory intermixed beads and anti-skid aggregate, and application of additional surface beads" and "e. Skid resistance of methyl methacrylate traffic markings shall have a minimum British Pendulum number of 45 units, as determined by the current requirements of ASTM E303."
70.10	10.3	Updated Article 70.10.3C to 85.03.3 C Preparation of Surface and updated second sentence to "Paint shall be applied when the pavement temperature is at least forty degrees Fahrenheit (40°F) and rising, or per manufacturer's recommendation."
70.10	10.3	Updated Article 70.10.3.F to 85.03.3.F Application Added 1c "Curb markings shall be defined as colored markings on the curb that denote parking restrictions. Marking material shall be applied to the top and face of the curb, but not the gutter." Added 4f "During marking material application, anti-skid aggregate will be evenly distributed and visible throughout the top 20 mils of the marking material mixture, and after the application, in the surface of the cured material."
70.10	10.3	Updated Article 70.10.3.H to 85.03.3.H Pavement Marking Removal and added paragraph after second paragraph "When the removal of any portion of a crosswalk marking is required, the entire crosswalk marking, for the full width of the roadway, shall be removed and replaced with the same material and depth identified in the drawings."
70.10	10.3	Updated Article 70.10.3.I to 85.03.3.H Preliminary Spotting and replaced with "The Contractor will provide the necessary pavement marking control points at 50 foot intervals and all changes of direction or changes in basic configuration. These points shall be used in preliminary spotting of lines before striping is commenced. The Contractor shall be responsible for preliminary spotting of pavement markings and must obtain approval from the Engineer before work on permanent pavement markings may begin. Examples of pavement markings subject to spotting include, but are not limited to, longitudinal lines, crosswalks, stop bars, symbols, and letters."
70.10	10.3	Updated Article 70.10.3.J to 85.03.3.I Inlaid Protected Markings Deleted third paragraph and moved to 85.03.3.J.7. Added the following paragraph to the end "Install markings in the same work shift as the grooving operation. Markings will be measured flush with the pavement surface, unless otherwise approved by the Project Inspector and Traffic Engineer."
70.10	10.3	Replaced Article 70.10.3.K number 7 with the third paragraph of Article 70.10.3.J and updated it to Article 85.03.3.J.7
70.10	10.4	Updated Article 70.10.4 to 85.03.4 Measurement Updated the second sentence of the first paragraph to "Traffic markings consisting of words, symbols, and curb nose markings shall be paid per item complete in place and accepted." Updated third paragraph to include application and furnishing anti-skid aggregate.
70.10	10.5	Updated Article 70.10.5 to 85.03.5 and added Pay Items "Curb Markings (Type)" and "Curb Nose Markings"
70.11	All	Updated Section 70.11 to Section 85.04
70.11	11.2	Updated Article 70.11.2 to 85.04.2 and updated Type "IX" to Type "XI" in the first and second paragraphs of this Article.
70.11	11.2	Updated Article 70.11.2.A to 85.04.2 A and replaced paragraphs 4, 5, 6, and 7 with "Use single piece sign panels for all signs 72 inches or less in the horizontal direction. For larger signs, assemble multiple piece sign panels with vertical seams only. Horizontal seams are only permitted when the height of the panel exceeds 72 inches."

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70.11	11.2	Updated Article 70.11.2.B to 85.04.2.B and updated Type "IX" to Type "XI" in the second paragraph. Replaced paragraph 8 with "Use single piece reflective sheeting on sign panels 48 inches or less in height or width. For larger signs, butt splicing of reflective sheeting is permitted except that splices are not permitted within two inches of the edge of the sign panel."
70.11	11.2	Updated Article 70.11.2.C to 85.04.2.C and added "..., the Anchorage Traffic Manual Addendum, ..." to the first paragraph. Updated Type "IX" to Type "XI" in the first sentence of the last paragraph.
70.11	11.2	Updated Article 70.11.2.D to 85.04.2.D and replaced first sentence of the first paragraph with "All rectangular signs, over forty-eight inches (48") measured along the horizontal axis, and all diamond shape signs with a long edge forty-eight inches (48") or larger shall be framed unless otherwise specified." Added sentence "Use framing members made from aluminum alloy 6061-T6." to beginning of last paragraph.
70.11	11.3	Updated Article 70.11.3 to 85.04.3 Construction replaced second paragraph with "Contractor shall dispose of surplus excavated material in accordance with Division 10, Section 10.04, Article 4.9 - Disposal Sites." Added paragraph "Concrete sign post shall be plumb to the ground after the concrete has fully cured." Added paragraph "Attach a label to the back of all standard signs in the lower right corner. Make the label at least 15 square inches and show the year the sign was installed by the Contractor. Show the last two digits of the year in clear and bold numbers. Make the label from ASTM D4956 Type I or brighter retroreflective sheeting. Use background and legend colors meeting the following table." after the fifth paragraph. Added table. Revised paragraphs 7 and 8 of article 85.04.3 to read "Removed and relocated existing signs and mile posts shall be placed on a new sign post foundation base and shall conform to the Drawings or as directed by the Engineer. Sign post foundation bases from removed or salvaged signs shall be removed and the ground restored to match the surrounding area. Restoration is considered incidental to the sign bid item."
70.11	11.4	Updated Article 70.11.4 to 85.04.4 Measurement Added "... each face of ..." to the first sentence of the first paragraph. Added "Clearing for signs shall be incidental to work under this Section unless specifically identified for payment under a separate bid item."
70.12	All	Updated Section 70.12 to Section 85.05
70.12	12.1	Updated Article 70.12.1 to 85.05.1 and added "... or their designee,..." to the second sentence of the third paragraph.
70.12	12.2	Updated Article 70.12.2 to 85.05.2 and revised the first sentence of the first paragraph to "A TCP is a graphic/text plan that describes traffic control to be used to assist road and non-motorized facility users (drivers, bicyclists, and pedestrians, which include people with disabilities) through a temporary traffic control zone or an incident area."
70.12	12.2	Updated Article 70.12.2 to 85.05.2 and added paragraph after first paragraph "If any part of the Contractor's project impacts on-street parking in the Central Business District (the boundaries of which are defined in the Anchorage Municipal Code) from Monday through Saturday, the Contractor must apply for a Parking Meter Hood Contract from EasyPark (or Successor entity). Proof of parking meter rental agreement must be provided to the Traffic Engineer prior to issuance of an approved TCP."
70.12	12.2	Updated Article 70.12.2 to 85.05.2 and updated the first sentence of the second paragraph to "The Contractor shall submit a TCP for the project prepared and signed by a certified traffic control designer."

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70.12	12.3	Updated Article 70.12.3 to 85.05.3 Added to the first sentence "and the current Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way (PROWAG)." Revised the first sentence in the second paragraph to "The Contractor shall provide and maintain a pedestrian traffic route through and/or around the Project..." Revised the third sentence of the second paragraph to "The route shall be established in a location within or near..." Revised the last sentence of the second paragraph to "4-foot high construction orange safety..."
70.12	12.5	Updated Article 70.12.5 to 85.05.5 Materials Added number 2 Proximity Actuated Audible Signs Updated number 9 ADOT&PF Standard "Drawing G-45" to "Plan G-47"
70.12	12.6	Updated Article 70.12.6 to 85.05.6. Removed "Anchorage Chamber of Commerce", "Alaska Travel Industry Association", and "Volunteer Fire Departments" Revised "ASD Pupil Transportation" to "ASD Student Transportation" Added "Alaska Railroad (where applicable)" and "Major Tour Operations" Renumbered accordingly.
70.12	12.6	Updated 70.12.6 to 85.05.06 and revised first sentence of third paragraph to "Advertisement and/or public notice requirements for closures shall..." Revised last sentence of fourth paragraph to "The Contractor shall advertise the closure through the Municipality of Anchorage's construction project and road closure website (www.anchorageroads.org)."
70.12	12.6	Update 70.12.6 to 85.05.6 and revised the last paragraph to "The published advertisement shall be displayed through the www.anchorageroads.org website. The Contractor shall provide the Traffic Engineer with the Contractor's name, effective dates and times of the closure, and detailed traffic information. The Traffic Department may publish the information electronically on a weekly basis until the completion of the project. ..."
70.12	12.6	Updated Article 70.12.6 to 85.05.6. Added paragraph after the second paragraph "Contractor shall provide proper notification to residents of impending construction activities for all projects. Contractor shall provide residents with contact name(s) and phone number(s) for Contractor personnel with responsibility to inform and coordinate with residents. The Contractor shall give written notice to the residents of any adjacent property having direct driveway or parking access to the project area, 48 hours in advance of installing curb and gutter, sidewalk, or approach aprons across the driveway, or driveways serving the adjacent property." Removed "subscriber mailing list" references.
70.12	12.9	Updated Article 70.1.9 to 85.05.9 and revised the third sentence of the fourth paragraph to "The Contractor shall provide access through and around the project for emergency vehicles."
70.12	12.9	Updated Article 70.1.9 to 85.05.9 and revised the second sentence of the last paragraph to "Unless approved by the Traffic Engineer on the TCP, flagger(s) are required at all times when one-lane traffic is in effect."
70.14	All	Updated Section 70.14 to Section 85.06
70.15	All	Updated Section 70.15 to Section 85.07
70.16	All	Updated Section 70.16 to Section 85.08
70.17	All	Updated Section 70.17 to Section 85.09
70.17	17.1	Updated Article 70.17.1 to 85.09.1 and updated the first paragraph to " The Work covered under this Section consists of performing all operations pertaining to the removal and resetting of mailbox(es) and cluster mailbox(es) affected by construction of this project, and shall include providing temporary mailbox(es). The Engineer will designate which mailbox(es) is/are affected. The term "mailbox" shall include cluster mailbox units and parcel boxes. Multiple cluster mailbox units or parcel boxes on one concrete pad shall be considered one cluster mailbox unit."

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70.17	17.2	Updated Article 70.17.2 to 85.09.2 and added sentence of the end of the first paragraph "USPS may request to replace existing cluster mailbox units or parcel boxes scheduled for relocation at USPS's expense, as coordinated with the Engineer in the field." Revised second paragraph to "Contractor shall furnish nails, staples, fastening wires or devices, and all materials required for the construction of such anchors, posts, concrete pads, or other portions of the mailbox, which can be replaced more efficiently than they can be moved." Replaced "he" with "they" in third paragraph.
70.17	17.3	Updated Article 70.17.3 to 85.09.3 and revised the paragraph to "Contractor shall provide temporary mailbox placement and access. Contractor shall set the mailbox(es) in reasonably close conformity to its original location with respect to access points or as the Engineer directs. Contractor shall set posts and anchors at the same depth as in the original mailbox(es) or as directed by the Engineer. Contractor shall replace by equivalent construction permanent anchors, posts, or other parts that cannot be economically moved. Contractor shall paint new materials requiring painting. Contractor shall paint the entire mailbox and support if the paint on the new items does not adequately match or does not meet the satisfaction of the Engineer. Contractor shall place the relocated mailbox(es) in at least as good condition as the existing mailbox(es) before they were it was moved, behind the curb and gutter in accordance with postal regulations, or as the Engineer directs. Contractor shall place the face of the mailbox(es) forty-onefour to forty-fiveeight inches (414" to 458") above the top back of the curbroadway surface, behind the curb and gutter, or in an alternate location approved by the U.S. Post Office. Contractor shall install the cluster mailboxes in accordance with the manufactures instructions and the information provided in the plans."
70.17	17.4	Updated Article 70.17.4 to 85.09.4 and added paragraph "Relocating cluster mailbox units and parcel boxes shall be measured per unit permanently relocated and complete in place including all excavation, backfill, compaction, and grading necessary for construction. Multiple cluster mailbox units or parcel boxes on one concrete pad shall be considered one cluster mailbox unit and no separate payment shall be made. Concrete pads and concrete backing curbs including rebar associated with cluster mailboxes and parcel boxes shall be considered incidental to the Relocate Cluster Mailbox pay item and no separate measurement for payment shall be made." after last paragraph.
70.17	17.5	Updated Article 70.17.5 to 85.09.5 and added Pay Item "Relocate Cluster Mailbox"
70.21	All	Updated Section 70.21 to Section 85.10
70.21	21.3	Updated Article 70.21.3 to Article 85.10.3 and revised the last sentence of the first paragraph to "The Delineator shall consist of a corrosion-resistant drivable ground anchor and replaceable tubular composite post, color as indicated in the plans, with reflective sheeting for nighttime visibility. Minimum outside diameter of the post shall be 2", minimum height 42"."
85.12	All	Added Section 85.12 "Multi-Modal Counters"
Index		Updated Index of Standard Details
All Details		Updated revision date and text
All Details		Revised abbreviations for uniform punctuation (Min., Max., Typ., etc.)
70-8		Updated Detail 70-8 to 85-2 and revised skip line termination location
70-13		Updated Detail 70-13 to 85-7 and updated title to "Passing on Both Sides of A Right Hand Side Obstruction" Updated gore and median striping Added callouts and dimensions Removed curb and gutter hatch
70-14		Updated Detail 70-14 to 85-8A and 85-8B Added pavement markings
85-9		Created new detail 85-9 "Gap Ladder Crosswalk Striping"

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Section/ Detail	Article	Change
85-10		Created new detail 85-10 "Skewed Gap Ladder Crosswalk Striping"
70-15		Updated Detail 70-15 to 85-11 and added dimensions for "X" railroad crossing symbol
70-16,17,18,19		Revised offset references from traveled way. Removed 13.5' offset from approach street. Revised notes.
85-16		Created new detail 85-16 "Compact Roundabout Arrow Markings", marked "Pending"
70-20,21,22,23,24		Updated Details 70-20 to 70-24 to 85-17 to 85-21 and replaced "signs zeas" with "sign framing"
70-27		Updated Detail 70-27 to 85-24 and changed "Expressway/Freeway" to "Posted Speed Limit >= 50 MPH"
70-28,30,32		Updated Details 70-28, 70-30, and 70-32 to 85-25, 85-27, and 85-29 respectively and updated sign designations from D3-D1 to D3-101
70-31		Updated Detail 70-31 to 85-28 Updated callouts and dimensions to clarify 3"- 4" above finished landscape grade. Deleted P.S.T. table Added notes
70-33		Updated Detail 70-33 to 85-30 Added pole plate spacing table Added notes Replaced zeas with windbeams
85-31		Created new detail 85-31 "Clearing For Signs"
70-39		Updated Detail 70-39 to 85-32 Updated notes Removed ground hatch Replaced "Exist. Ground" with "Finished Grade" Extended guardrail height dimension to finished grade and updated to 31" +/- 1"
70-40		Updated Detail 70-40 to 85-33
85-34		Created new Detail 85-34 "Mailbox Location"
85-35		Created new Detail 85-35 "Flexible Delineator"
40-3,4,5,6		Moved details 40-3, 4, 5, and 6 to division 85 and renumbered to 85-36, 37, 38, and 39 Added reference pavement marking details Revised pavement marking to accurately show layout
40-3		Updated Detail 85-36 "Sinusoidal Speed Hump" Added new pavement note Added hatch and callout for asphalt removal and replacement
85-40		Inserted new Detail 85-40 "Raised Crosswalk"
85-41, 42		Created new Detail 85-41 "Multi-Modal Pathway Counter" and Detail 85-42 "Multi-Modal Sidewalk Counter"