



This table lists recommended amendments to the 2023 edition of the City of Seattle Standard Specifications and Standard Plans for Road, Bridge and Municipal Construction.

For City Contracts, the amendments presented below are only binding if they are inserted into a Project Manual (pre advertisement, via the addendum process or through a change order).

For SDOT issued Street Use Permits, the amendments presented below are only binding if they are referenced in the applicable Street Use Permits.

SP = Standard Plan

Amendments to the Standard Plan are posted as redlined PDF's ( showing recent edits ), clean PDF's and CAD files on the City of Seattle's Standards Specifications and Plans webpage and are listed below.

<https://www.seattle.gov/utilities/construction-resources/standards-and-guidelines/standard-specs-and-plans>

Revision Date	Section # or Plan #	Current Title	Text
12/20/2024	1-03.6 1-05.13(2) 1-07.9(1)D1 1-07.11 1-07.18(2) 1-07.18(5)	VARIES:	<p><b>Replace the mailing address with:</b></p> <p><b>Mailing address for USPS:</b> City of Seattle Department of Finance and Administrative Services – Purchasing and Contracting PO Box 94687, Seattle, WA 98124-4687</p>
12/20/2024	1-01.2(1) 1-03.1(2) 1-03.6 1-05.13(2) 1-07.18(2) 1-07.18(5)	VARIES:	<p><b>Change Department name to:</b></p> <p>Department of Finance and Administrative Services</p>
12/20/2024	1-02.4(1)	EXAMINATION OF BID DOCUMENTS AND PROJECT SITE / GENERAL	<p><b>Replace the second paragraph with the following:</b></p> <p>The Bidder has a responsibility to ask about any perceived defect or ambiguity in the Bid Documents. Bidders who need an explanation or clarification of the Bid Documents must make this request in writing before 5:00 p.m. on that Thursday preceding the Bid opening. A claim will not be allowed if a Bidder failed to request clarification or if a reasonably prudent contractor would have discovered such defects or ambiguities while preparing their Bid.</p>
12/20/2024	1-04.4(3)	Claims	<p><b>Replace item 9. d. with the following:</b></p> <p>9.d. The Contractor's written explanation of the reason for the requested change including the method of analysis used and where appropriate referring to the relevant schedules; supporting documents such as look-ahead, <b>As-Builts</b>, daily records, time sheets, and the basis for the rates of affected tasks that the <b>baseline CPM schedule</b> was founded on, may be required by the Engineer.</p>
12/20/2024	1-05.3(4)	Submittal Control Document	<p><b>Replace the last two sentences of the first paragraph with the following:</b></p> <p>The Contractor may reference the <b>baseline CPM schedule</b> and show major submittals and review times in the CPM. The initial Submittal Control Document must be submitted with the <b>baseline CPM schedule</b>, see Section 1-08.3(1) for time requirements.</p>
12/20/2024	1-07.11	SOCIAL EQUITY IN CONTRACTING	<p><b>Replace the first paragraph with the following:</b></p> <p>The City provides assistance to Contractors that desire to Bid on, or have been awarded a City Contract, to comply with equal opportunity, non-discrimination, Affirmative Efforts, and Apprenticeship provisions. Should a Contractor desire assistance or information in recruiting, tutoring, and training or otherwise preparing potential employees and Subcontractors, a Contractor may contact PC at (206) 684-0444. Direct all questions, reports, or other submittals regarding the requirements of this Section to PC. Telephone: (206) 684-0444.</p>

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12/20/2024	1-07.16(3)	FENCES MAILBOXES, AND MISCELLANEOUS ITEMS  Note: also see changes to Section 1-07.28 item 15	<p><b>Replace the second paragraph with the following:</b></p> <p>The Contractor must comply with all requirements of the U.S. Postal Service for maintenance and relocation of postal service, collection, and mail receptacles. Where U.S. Postal Service Structures need to be temporarily relocated, the Contractor must make the notification specified in Section 1-07.28. Information to be provided to the Post Office includes the Location I.D. Number included on the box label or, if no label, the street location; date needed for temporary relocation, and approximate date the area impacted by construction will be completed. All U.S. Postal Service Structure relocation must be done by the Contractor once written permission has been granted by the U.S. Post Office. Do not impair access to existing or temporarily relocated postal Structures. Upon completion of the Work which required the relocation of mail receptacles, the Contractor must notify the U.S. Postal Service in writing that the box has been reinstalled to the original location.</p>
12/20/2024	1-07.17(1)	UTILITIES AND SIMILAR FACILITIES / GENERAL	<p><b>Replace the Side Sewer information website in the 6<sup>th</sup> paragraph with the following:</b></p> <p><a href="https://maps.seattle.gov/sdcisidesewercardviewer/">https://maps.seattle.gov/sdcisidesewercardviewer/</a></p>
12/20/2024	1-07.28	NOTIFICATION RELATIVE TO CONTRACTOR'S ACTIVITIES  Note: also see changes to Section 1-07.16(3)	<p><b>Replace item 15 with the following:</b></p> <p>15. U.S. Postal Service Collection Boxes, Mail Receptacles, and other structures: the Contractor must receive written permission from the local U.S. Post Office to relocate a Collection Box, Mail Receptacle or structure. The U.S. Postal Service recommends contacting them at least 7 Calendar Days in advance for approval for the Contractor to relocate a Collection Box, Mail Receptacle or other U.S. Postal structure. See Section 1-07.16(3).</p>
12/20/2024	1-08.1(2)A	PRECONSTRUCTION CONFERENCE	<p><b>Replace this Section with the following:</b></p> <p>After the Contract has been Executed, but before the Contractor starts Work, a preconstruction conference will be held for the Contractor, the Engineer and such other interested parties as may be invited.</p> <p>The purpose of the preconstruction conference will be:</p> <ol style="list-style-type: none"> <li>1. To review the preliminary critical path schedule indicating major work activities including the order and duration of work activities, milestones and time frames required in the Contract, and the critical path.</li> <li>2. To establish a working understanding among the various parties affected by the Work.</li> <li>3. To establish and review procedures for items including but not limited to progress estimates and cut-off Dates, notifications, approvals, reviews, and submittal delivery methods.</li> <li>4. To establish normal working hours for the Work.</li> <li>5. To review safety standards, traffic control, and maintaining cleanliness.</li> <li>6. To review the Construction Stormwater Pollution Prevention Submittal requirements and leads specified in Sections 1-05.13, 1-07.5, 1-07.15, and Section 8-01 and related permits, as applicable.</li> <li>7. To review Material sources as may be applicable.</li> <li>8. To discuss such other related items as may be pertinent to the work.</li> </ol> <p>See Section 1-05.3(5) for submittals due at the preconstruction conference.</p>
12/20/2024	1-08.3(1)B3	CPM SCHEDULE UPDATE	<p><b>Replace Item 2. a. with the following:</b></p> <p>a. Schedule updates must be presented in a Tracking Gantt format, showing 2 sets of Gantt-style progress bars consisting of 1) the latest <b>accepted baseline CPM schedule</b> versus 2) a combination of the actual start/finish progress of completed tasks and projected start/finish Dates of uncompleted tasks.</p>

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12/20/2024	1-09.1	MEASUREMENT OF QUANTITIES  Note: also see changes to Section 9-07	<b>Delete the reference to AASHTO M 32 in item b) Gauge and replace with the following:</b>  ; and in the measurement of wire as specified in AASHTO M 336 and ASTM A 1064.				
12/20/2024	1-09.9(4)A	REQUEST FOR CONTRACT COMPLETION DATE	<b>Replace the first paragraph and item #1 with the following:</b>  The Engineer will submit an acceptance package with supporting documents to PC after the Physical Completion Date and after all obligations, including disputes and settlements, of the Contract except retainage release have been completed. In order for PC to declare the project complete, PC requires the following:  1. Documents that all Work is completed: a. The State Notice of Completion (NOC) of Public Works Contract form (LNI form F215-038-000) filled out electronically by the administering department with as much information as possible (PC will submit the form); b. NTP, Substantial, and Physical Completion Notices with Dates; c. All Change Orders; d. All calculations of Liquidated Damages; e. All claims under Section 1-04.4 resolved and the Final Contract Price set; f. All permit conditions completed; g. The Contractor Performance Evaluation is completed for all applicable projects; and h. Evidence that all other requirements of the Work are met.				
12/20/2024	1-10.1(2)	MATERIAL	<b>Supplement the table with the following:</b>  <table border="1"> <tr> <td>Temporary Pedestrian Curb Ramps</td> <td>9-38.16</td> </tr> <tr> <td>Pedestrian Channelizing Devices</td> <td>9-38.17</td> </tr> </table>	Temporary Pedestrian Curb Ramps	9-38.16	Pedestrian Channelizing Devices	9-38.17
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12/31/2024	1-10.3(1)C	TRAFFIC CONTROL PEACE OFFICERS	<b>Replace this Section with the following:</b>  Only use an off-duty uniformed peace officer as a flagger to:  1. Countermand a traffic signal indication at a signalized intersection. 2. Direct vehicle and pedestrian traffic when a traffic signal indication is turned off or inoperative. 3. Perform flagging duties <del>outside of the required uses in items 1 or 2 above only if it is determined by the Engineer that such work would present an extenuating safety risk if not performed by personnel who are Uniformed Peace Officers. Such use of Uniformed Peace Officers must be specified in the accepted traffic control plan. when and where specified in the accepted traffic control plan or elsewhere in the Contract.</del> 4. If flagging duties indicated exclude the required uses in item 1, <del>or and</del> 2, <del>or</del> 3 above, or any combination of the above, then the Engineer <del>will</del> <del>may</del> direct the Contractor to stop use of the Uniformed Peace Officer before the next Working Day.  For new traffic signal Work, officers are also required. as specified in Section 8-31.3(1)A. The off-duty uniformed peace officer must be provided by the Contractor.  On the next Working Day, the Contractor must submit to the Engineer a copy of the daily timecard for Traffic Control Peace Officers showing the hours actually worked.				
12/20/2024	1-10.3(3)L	PAINT LINES AND LEGENDS	<b>Delete this Section and replace with the following:</b>				

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			<p>Temporary pavement markings must be provided <del>for all lane shifts resulting from construction activities, or</del> when permanent markings are removed because of construction operations. Temporary pavement markings must be maintained in serviceable condition and removed only on installation of permanent traffic channelization. <u>When lane shifts resulting from construction activities will be in place for more than 15 Calendar days, temporary centerline striping and temporary dashed lane line striping must be installed.</u></p> <p>Temporary centerline striping must consist of placing yellow strips of pressure sensitive pavement marking tape <u>or temporary paint</u> at 15-foot intervals along the centerline. Temporary markings <del>s-tape</del> must be placed in sets of two 36-inch strips of yellow 4-inch wide markings <del>s-tape</del> set 16 inches apart and parallel to the center line with each set of 3-foot double line spaced every 15 feet along the center line of the roadway, or the equivalent surface area in yellow temporary lane markers.</p> <p>Temporary dashed lane line striping must consist of placing white strips of pressure sensitive pavement marking tape <u>or temporary paint</u> at 15-foot intervals along the dashed lane lines, separating multiple lanes of traffic moving in the same direction. Temporary markings <del>s-tape</del> must be placed in 36" strips of white 4- inch wide marking spaced every 15 feet along the lane lines, or the equivalent surface area in white temporary lane markers.</p> <p>Temporary stop bars must conform to the dimensions and location requirements provided in Standard Plan 712. Stop bars may consist of parallel adjacent 4-inch strips of temporary pavement marking tape.</p> <p>When permanent green pavement markings are temporarily removed during construction, and the temporary traffic control plans require the bike lanes to remain operational in the same location, install temporary skip lines for the outer edge of the bike lane or cross-bike using the same skip pattern of the permanent markings as provided in standard plan 780 and 781. Infilling with green markings is not required.</p> <p>Temporary crosswalks must be "ladder style" conforming to the dimensions and placement requirements in Standard Plan 712. Crosswalks may consist of parallel adjacent 4-inch strips of temporary pavement marking tape.</p> <p>Temporary symbols and legends must conform to the dimensions of permanent installations as provided in the 700 series Standard Plans using white temporary marking tape or approved traffic paint with reflectivity.</p> <p>Pressure-sensitive pavement marking tape <u>or temporary paint</u> used on the wearing course before installation of permanent lane markers, traffic buttons, or permanent paint striping must be removed from the pavement current with, or immediately after, the installation of permanent pavement markings.</p> <p>Temporary pavement markings must be maintained in serviceable condition by the Contractor for the duration of time it is in use. The Contractor must lay out temporary markings for the permanent marking application and, after installation of the permanent markings, must remove the temporary striping.</p> <p>Temporary pavement marking tape and paint must comply with Section 9-29. Damage to the pavement resulting from removal of temporary pavement marking, including the use of high heat sources, must be repaired by the Contractor at no expense to the Owner.</p>
12/20/2024	2-02.3(3)F	REMOVE SIDEWALK	<b>Delete the second and third paragraphs.</b>
12/20/2024	2-02.3(3)J	REMOVE PAVEMENT MARKING	<b>Replace the first sentence with the following:</b> <p>Pavement paint and plastic stripes and markings, traffic buttons, and lane markers to be removed, as described in the Contract, must be obliterated until blemishes caused by pavement marking removal conform to the coloration of the adjacent pavement.</p>
12/20/2024	2-02.4	MEASUREMENT	<b>Replace the 7th and 8th paragraphs with the following:</b> <p>"Remove Paint Striping" and "Remove Plastic Striping" is measured by the actual linear foot. Unpainted skips in pavement marking removal, and removal of traffic buttons and lane marker incidental to pavement marking removal, will not be measured.</p> <p>"Remove Paint Legend/Symbol" and "Remove Plastic Legend/Symbol" is measured per each.</p>
12/20/2024	2-02.5	PAYMENT	<b>Replace the paragraph regarding traffic sign posts under item 4 with the following:</b>

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			<p>Payment for removal of sign posts includes all costs for the removal of the post, sign(s), mounting hardware and restoration of the surface where sign posts were removed. No separate payment will be made for removal and salvage of signs from a removed post that is paid as "Remove Post, (Description)"</p> <p><b>Replace the paragraph regarding pavement marking removal under item 4 with the following:</b></p> <p>The Bid item price for "Remove Paint Striping", "Remove Plastic Striping", Remove Paint Legend/Symbol" and "Remove Plastic Legend/Symbol" includes all costs for the work required to remove and dispose of pavement marking including traffic buttons and lane markers. Pavement materially damaged by Contractor removal methods requiring restoration of the damaged pavement will be at the sole expense of the Contractor and no separate or additional payment will be made. No payment will be made for removal of pavement marking when the underlying pavement is removed.</p> <p><b>Add the following after the last paragraph under item 4.</b></p> <p>Required sawcutting on the perimeter of sidewalk removal is paid as "Sawcut Asphalt Concrete, Full Depth" or "Sawcut Cement Concrete, Full Depth." All other sawcutting associated with removal of sidewalk is considered incidental to the removal Bid Item. Sidewalk removal areas are shown on the Drawings or directed by the Engineer. Adjacent sidewalk removal areas are considered 1 area regardless of the method of Work.</p>
12/20/2024	5-04.3(10)B1	GRINDING CONCRETE FOR BUTT JOINTS	<p><b>Add the following NEW Section:</b></p> <p>Grinding concrete for butt joints must be accomplished with abrasive grinding equipment utilizing diamond cutting blades. The equipment must be self-propelled machinery specifically designed for grinding portland cement concrete pavement. The equipment must be such that it doesn't strain or damage the underlying pavement that is to remain. The grinder must have depth control allowing for accurately cutting to specified depth and for making wedge cuts necessary for butt joints. The equipment must be capable of cutting or planing up to 3 feet in width on one pass.</p> <p>Residue from grinding operations must be picked up by means of a vacuum attachment to the grinding machine and any slurry must not be allowed to flow across the pavement or left on the pavement. Pavement must be left in a washed clean condition, free of all slipperiness from slurry. Grindings and slurry must become the property of the Contractor and disposed of in accordance with Section 1-07.3.</p> <p>Grinding must not produce a smooth or polished surface. The blades utilized for grinding must provide a rough surface to achieve an acceptable bond between cement concrete and asphalt pavement.</p>
12/20/2024	5-04.4	MEASUREMENT	<p><b>Add the following:</b></p> <p>Measurement of "Cement Concrete Grinding for Butt Joint, 0-2" Depth" will be by the square yard, based on the actual width and length of the grind.</p>
12/20/2024	5-04.5	PAYMENT	<p><b>Add the following:</b></p> <p><b>12. "Cement Concrete Grinding for Butt Joint, 0-2" Depth", per square yard</b></p> <p>The Bid item price for "Cement Concrete Grinding for Butt Joint, 0-2" Depth" is full payment for all costs to complete the work. Costs for grinding, removing and disposing of grindings and slurry and cleaning pavement of all slurry are included in the unit cost of the work.</p>
12/20/2024	5-05.4	MEASUREMENT	<p><b>Replace the second and third sentences with the following:</b></p> <p>If Bid Item is included in the Bid Form, dowel bar will be measured per each for the actual number of bars used in the completed Work, <b>otherwise</b>, no measurement will be made.</p> <p>If Bid Item is included in the Bid Form, Tie bar with drill hole will be measured per each for the actual number of bars used in the completed Work, <b>otherwise</b> no measurement will be made.</p>
12/20/2024	5-05.5	PAYMENT	<p><b>Delete the 2nd sentence of item 8. and replace the following:</b></p> <p>If no Bid Items for "Dowel Bar" and "Tie Bar with Drill Hole" are included in the <b>Bid Form</b> this work is included in the unit Contract price per square yard for "Roadway Cement Concrete".</p>

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12/20/2024	6-02.3(6)E	TOLERANCES	<p><b>Supplement this Section with the following:</b></p> <p>Bridge deck, bridge approach slab, and bridge traffic barrier expansion joint gaps with a specified temperature range, measured at a stable temperature: <math>\pm 0.25</math> inch.</p> <p>Horizontal deviation of centerline of bearing pad, oak block or other bearing assembly: <math>\pm 0.125</math> inch.</p> <p>Horizontal deviation of centerline of supported element from centerline of bearing pad, oak block or other bearing assembly <math>\pm 0.25</math> inch.</p> <p>Vertical deviation of top of bearing pad, oak block or other bearing assembly: <math>\pm 0.125</math> inch.</p>
12/20/2024	7-08.5	PAYMENT	<p><b>Add the following to item 7. Other Payment Information:</b></p> <p>All costs for the work required to furnish and install Polyethylene Foam between utilities must be included in the applicable bid item cost for pipe.</p>
12/20/2024	7-15.3	CONSTRUCTION REQUIREMENTS	<p><b>Replace the 4th paragraph and numbered list with the following:</b></p> <p>SPU will, at no cost to the Contractor, mark the exact field locations of service taps and tees on services 2 inches and smaller. Locations of services larger than 2 inches will be identified on the Drawings. The Contractor must assist SPU Water Operations and the Contractor is responsible for the following elements of work:</p> <ol style="list-style-type: none"> <li>1. Protection of the Water Main and services during construction.</li> <li>2. Excavation for the water service connections, including shoring and dewatering.</li> <li>3. <b>Installation of bedding for water service connection pipe. Bedding must be the same as the for the Water Main.</b></li> <li>4. <b>Furnish and install pipe, tees, valves, plugs, and valve boxes for service connections 4-inch and larger.</b> A 3-inch water service is considered a 4-inch water service. The tees must be mechanical joint (MJ) x mechanical joint x flange (FLG). Valves must be MJ x FLG, and removable plugs must be MJ for the service connection. The MJ plugs will be returned to the Contractor after SPU Water Operations completes the service connections.</li> <li>5. Removal of abandoned pipes, appurtenances, and blocking.</li> <li>6. Backfill, compaction, and placement of temporary pavement patch. Maintain the temporary pavement patch until completion of all work by SPU Water Operations.</li> <li>7. Upon completion of work by SPU Water Operations, make all final adjustments of valve boxes, water meter boxes, and rings and covers to final grade at no cost to the Owner, and then make the final surface restorations as specified in the Contract.</li> </ol>
12/20/2024	7-17.5	PAYMENT	<p><b>Add the following to item 9. Other Payment Information:</b></p> <p>All costs for the work required to furnish and install Polyethylene Foam between utilities must be included in the applicable bid item cost for pipe.</p>
12/20/2024	7-18.3(1)A	SIDE SEWER CONSTRUCTION / GENERAL  Note: The City is not currently maintaining the side Sewer registry program.	<p><b>Delete the third paragraph of this Section:</b></p> <p><del>Unless noted otherwise in the Contract, side Sewer Work within the Right of Way must be performed by a registered side Sewer Contractor.</del></p>
12/20/2024	8-02.5	PAYMENT	<p><b>Replace the first sentence of item 4. Landscape Establishment...with the following:</b></p> <p>The Bid Item price for "Landscape Establishment, Min. Bid (\$ _____)" must include all costs for the work required to establish the landscape including all costs to provide and apply water and all costs for the work required in Section 8-02.3(12).</p>

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12/20/2024	8-04.3(6)	DRAIN CURB CUT FOR BIORETENTION CELL	<p><b>Add the following NEW section 8-04.3(6):</b></p> <p><b>8-04.3(6) DRAIN CURB CUT FOR BIORETENTION SWALE</b>      Drain curb cuts must be constructed at locations shown on the Drawings per Standard Plans 295a – 295d.</p> <p><b>8-04.3(6)A DRAIN CURB CUT NOTIFICATION REQUIREMENTS</b>      The Contractor must notify the Engineer of the completion of the first drain curb cut constructed on the Project Site for the Engineer's review and approval per Section 1-05.6. The Contractor must have the Engineer's approval of the first installation before additional drain curb cuts are constructed.</p> <p><b>8-04.3(6)B DRAIN CURB CUT GUTTER FLOW TEST</b>      Gutter flow tests must be performed for all drain curb cuts, inlets and catch basin discharging into a bioretention cell. The flow tests must be performed prior to planting bioretention cells.</p> <p><u>Gutter flow test procedure:</u></p> <ol style="list-style-type: none"> <li>1. All gutter flow tests will be recorded on video in the presence of the Engineer.</li> <li>2. Ensure roadway and gutter upstream of the drain curb cut and/or inlet and catch basin are free of sediment and debris. Remove debris and sediment as needed prior to conducting flow test.</li> <li>3. Flow test will use potable water, see Section 2-12.3(2) for hydrant permit requirements, if applicable.</li> <li>4. Remove temporary plug or other flow diversion measures used at drain curb cuts, inlets or catch basins.</li> <li>5. Place the discharge hose in the traveled lane a minimum of 15 feet upstream along the gutter line of the drain curb cut, inlet or catch basin to be tested and 3 feet away from the gutter line.</li> <li>6. Adjust the flow of water and/or the upstream distance as necessary such that the flow in the gutter line spreads to cover 18 inches from the curb, 1 foot prior to reaching the drain curb cut, inlet or catch basin. For an inlet test, the flow in the gutter will spread 24 inches from the curb 1 foot prior to reaching the inlet.</li> <li>7. Videotape gutter flow test to document flow patterns through each drain curb cut, inlet or catch basin in presence of Engineer.</li> <li>8. All water in the gutter must flow through the drain curb cut, inlet or catch basin into the bioretention cell.</li> <li>9. Upon completion of the gutter flow test, replace the temporary plug.</li> <li>10. If flow is not freely flowing through the drain curb cut, inlet or catch basin to the bioretention cell as required, the Engineer will note deficiencies where adjustments are required including, but not limited to, adjusting or grinding drain curb cuts or pavement, adjusting landscaping boulders, adjusting frame and grates on new inlets and new catch basins, removing and replacing drain curb cuts, removing debris and other material inhibiting gutter flow from freely flowing into cell.</li> <li>11. If erosion occurs, restore soils and plants and other materials affected.</li> <li>12. Once adjustments are made, re-conduct gutter flow test including the video taping in the presence of the Engineer to confirm water flows through the drain curb cut, inlet or catch basin as required. Upon completion of the additional gutter flow test, replace the temporary plug.</li> <li>13. Bioretention cell must not be planted until gutter flow test is successfully completed and documented.</li> </ol> <p><b>8-04.3(6)C GUTTER FLOW TEST VIDEO SUBMITTAL REQUIREMENTS</b>      Within 5 Working Days of completion of each gutter flow test, the Contractor must submit a video recording of the flow test to the Engineer. Video recording files must be submitted in MP4 format or as requested by the Engineer.      Corresponding data files must be named to indicate the location of the drain curb cut. The videos must be submitted in accordance with Section 1-05.3, with a transmittal letter defining the contents. Include the following information in the transmittal letter for each gutter flow test:</p> <ol style="list-style-type: none"> <li>1. Date and time of day flow test performed.</li> <li>2. Names of test crew members and their company name.</li> <li>3. Project name, vault plan number listed on Drawings, and Drawing sheet number.</li> <li>4. Location (e.g., NW 130th St, 2<sup>nd</sup> Ave NW to 3<sup>rd</sup> Ave NW).</li> </ol> <p><b>8-04.4 MEASUREMENT</b>  <b>Supplement this Section with the following:</b>      Measurement for "Drain Curb Cut (Type)" will be per each.</p> <p><b>8-04.5 PAYMENT</b>  <b>Supplement this Section with the following:</b></p> <ol style="list-style-type: none"> <li>7. "Drain Curb Cut (Type)", per each.</li> </ol> <p>The Bid Item price for "Drain Curb Cut (Type)" includes all costs for the Work to install a drain curb cut, perform flow tests, and make one initial adjustment if the flow rate test results are unacceptable.</p>

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			<p>Payment for gutter flow tests and performing one initial adjustment if necessary for inlets or catch basins will be incidental to the payment for those structures.</p> <p>No separate payment or extension of time will be allowed for delay to schedule based on rejection of any drain curb cut by the Engineer.</p>
12/20/2024	8-14.4	MEASUREMENT	<p><b>Add the following:</b></p> <p>Measurement for "Detectable Directional Strip" will be by the linear foot.</p>
12/20/2024	8-14.5	PAYMENT	<p><b>Add the following:</b></p> <p><b>"Detectable Directional Strip, (Type)", per linear foot.</b></p> <p>The bid item price for "Detectable Directional Strip, (Type)" must include all costs for the work required to furnish and install the detectable directional strip.</p>
12/20/2024	8-22.3(7)	TEMPORARY PAVEMENT MARKING	<p><b>Revise Section to read:</b></p> <p>See Section 1-07.23(1) and Section 1-10.3(3)L.</p>
12/20/2024	8-22.3(9)	RED PAVEMENT MARKING	<p><b>Replace the Title and Section with the following:</b></p> <p><b>8-22.3(9) COLORED PAVEMENT MARKING AREAS</b></p> <p>Colored pavement marking areas must be installed where shown in the Drawings and per Standard plans. The product used must have a durable, color stable, skid resistant surface meeting the material requirements of MMA or pre-formed thermoplastic. The product used must integrate an aggregate that enables the surface to have a Skid resistance greater than 60 units per ASTM E303. The color for MMA and Thermoplastic must be per section 9-29.3(2). Install per the manufacturer's recommendations.</p>
12/20/2024	8-22.4	MEASUREMENT	<p><b>Delete the last sentence in this Section and replace with the following:</b></p> <p>Measurement for "Pavement Marking Area, (Material), (Color)" will be per square foot of material actually placed.</p>
12/20/2024	8-22.5	PAYMENT	<p><b>Delete item 8 and insert the new item 8 immediately after item 7 and above the payment description paragraphs:</b></p> <p><b>8. "Pavement Marking Area, (Material), (Color)" per square foot.</b></p>
12/20/2024	8-31.3(3)B	VEHICLE SIGNAL HEADS	<p><b>Delete the first paragraph and replace with the following:</b></p> <p>The bottom of vehicle signals mounted over roadways, excluding backplates, must have a range of clearance between 17 feet to 19 feet above roadway grade at the grade of the roadway. On designated truck and overhead trolley routes, the range of clearance must be 18 feet to 19 feet. <b>The top of the vehicle signal face cannot be more than 25.6 feet above roadway grade.</b> Vehicle signals mounted on poles or pedestals must be 12 to 15 feet above sidewalk grade. Vehicular signals mounted to aluminum pedestal poles must be installed with a supplemental pole base collar. The pole base collar is not required for vehicular steel pedestal poles. Pole plates used for bracket mounted installations must be of the type that must fit flush against the pole surface without altering the pole or pole plate.</p> <p><b>Move paragraph 6 to the end of the Section:</b></p> <p><b>Delete the last paragraph and replace with the following:</b></p> <p>For <b>signal heads that include a visual restrictor, referred to as optically programmed or</b></p>

Revision Date	Section # or Plan #	Current Title	Text												
			geometrically programmed signals, where specified to be span wire mounted, a tether cable must be installed. The tether cable must be complete with connections and hardware as recommended by the signal head manufacturer to provide and maintain proper optical visibility of all indications. The tether cable clamps used must be designed to release under severe wind loads and impact. The tether cable must be $\frac{1}{4}$ " and be installed a minimum 18 feet above roadway grade. Where in proximity to existing or planned trolley wires, span wires or electrical wires tether cable must be insulated. Optically programmed and geometrically programmed traffic signal heads must be programmed before traffic signal system turn on. Programming must be performed in the presence of the Engineer by allowing 2 Working Days advance notice.												
12/20/2024	8-31.3(5)A	INDUCTIVE DETECTOR LOOPS	<p><b>Delete the 4th paragraph and replace the 5th paragraph with the following:</b></p> <p>For polyurethane detector sealant, remove all dust, water or other debris from the wire loop prior to installation. After installing detector wire, apply sealant to seal detector wires and fill slot to approximately 1/8" below the roadway surface. Roadway may be reopened as long as sealant is not filled to surface. All additional manufacturer installation instructions must be followed.</p> <p>For hot-applied asphaltic sealant, sealants must be melted in jacketed double boiler melters with effective agitation that meet Appendix X1.1 of ASTM D6690. The melter must be capable of safely heating the product to 420F. Product must be applied to clean, dry pavement at a temperature greater than 40F. Sealant should be installed flush with the pavement surface in a neat manner which fills the sawcut. All additional manufacturer installation instructions must be followed.</p>												
12/20/2024	9-07.7	WIRE MESH	<p><b>Delete this Section and replace with the following:</b></p> <p>Welded wire for concrete reinforcement must meet the requirements of ASTM A1064, Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete. Welded wire reinforcement manufacturers must participate in the NTPEP Audit Program for Reinforcing Steel (rebar) Manufacturers and must be listed on the NTPEP audit program website displaying NTPEP compliance.</p>												
12/20/2024	9-07.8	DEFORMED WIRE	<p><b>Replace the first sentence with the following:</b></p> <p>Deformed wire must conform to the requirements of AASHTO M 336, Deformed Steel Wire for Concrete Reinforcement.</p>												
12/20/2024	9-07.9	COLD DRAWN WIRE	<p><b>Replace the first sentence with the following:</b></p> <p>Cold drawn wire must conform to the requirements of AASHTO M336, Cold Drawn Steel Wire for Concrete Reinforcement.</p>												
12/20/2024	9-21.2(1)	PHYSICAL PROPERTIES	<p><b>Replace the table with the following:</b></p> <table border="1"> <thead> <tr> <th>Lane Marker (Description)</th> <th>Lane Marker Type 2A</th> <th>Lane Marker Type 2B</th> </tr> </thead> <tbody> <tr> <td>Dimensions of Plastic Shells</td> <td>See Std Plan 700</td> <td>See Std Plan 700</td> </tr> <tr> <td>Slope of Reflecting Face</td> <td>20-35 deg</td> <td>20-30 deg</td> </tr> <tr> <td>Area of Each Reflecting Surface</td> <td>2.60-3.25 square in</td> <td>1.87 square in</td> </tr> </tbody> </table>	Lane Marker (Description)	Lane Marker Type 2A	Lane Marker Type 2B	Dimensions of Plastic Shells	See Std Plan 700	See Std Plan 700	Slope of Reflecting Face	20-35 deg	20-30 deg	Area of Each Reflecting Surface	2.60-3.25 square in	1.87 square in
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12/20/2024	9-32.4	DETECTOR LOOPS	<p><b>Add the following title and section:</b></p> <p><b>9-32.4(1) INDUCTIVE LOOP DETECTOR SEALANT</b></p> <p>Loop detector sealant must be one part, moisture curable, self-leveling polyurethane or hot-applied, rubberized asphalt material.</p>												

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			<p>Polyurethane sealant must match roadway color, require no mixing, and totally encapsulate the detector conductors. Polyurethane sealant must also meet the following specifications:</p> <table border="1"> <thead> <tr> <th>Test</th><th>Specification Limits</th></tr> </thead> <tbody> <tr> <td>Skin Time at 77° F</td><td>2 hours maximum</td></tr> <tr> <td>Cure Time at 77° F</td><td>48 hours maximum</td></tr> <tr> <td>Tensile Strength (ASTM D-142)</td><td>600 psi minimum</td></tr> <tr> <td>Elongation (ASTM D-412)</td><td>300 % maximum</td></tr> <tr> <td>Linear Shrinkage (ASTM D-2566)</td><td>0 %</td></tr> <tr> <td>Hardness Shore A (ASTM D-2240)</td><td>70 minimum</td></tr> </tbody> </table> <p>Hot-applied asphaltic sealant must be meet the following specifications when heated to in accordance with ASTM D5167:</p> <table border="1"> <thead> <tr> <th>Test</th><th>Specification Limit</th></tr> </thead> <tbody> <tr> <td>Termosel Viscosity at 400°F (ASTM D-4402)</td><td>4000 cp maximum</td></tr> <tr> <td>Penetration, 125°F, 50 g, 5 s (ASTM D5)</td><td>50 maximum</td></tr> <tr> <td>Penetration, 77°F, 100g, 5 s (ASTM D5)</td><td>10-25</td></tr> <tr> <td>Softening Point (ASTM D36)</td><td>210°F minimum</td></tr> <tr> <td>Ductility, 77°F (ASTM D113)</td><td>15 cm minimum</td></tr> </tbody> </table> <p><b>9-32.4(2) PREFORMED DETECTOR LOOP</b></p> <p>Preformed detector loops are used for actuating traffic-actuated controllers and traffic counting applications. The complete loop/ lead-in assembly must be suitable for applications in which the loop lead-in assembly will be placed on compacted aggregate sub-base and overlaid with concrete.</p> <p>The loop cable must be a four-conductor, double-jacketed cable with a nominal outer diameter of 0.360". The individual conductors must be #18 AWG wire (formed from seven strands of #26 AWG copper wire) with a 0.020" thick layer of cross-linked polyethylene (XLPE) insulation. The inner jacket must be 0.040" thick cross-linked polyethylene (XLPE). The void between the conductors and the inner jacket must be spiral wrapped with a clear, moisture resistant binder tape and filled with an amorphous water-block compound. The outer jacket must be 0.035" thick cross-linked polyethylene (XLPE).</p> <p>The lead-in cable must be a two-conductor, double-jacketed cable with a nominal outer diameter of 0.360". The individual conductors must be #16 AWG wire (formed from nineteen strands of #28 AWG copper wire) with a 0.020" thick layer of cross-linked polyethylene (XLPE) insulation. The inner jacket must be 0.040" thick cross-linked polyethylene (XLPE). The void between the conductors and the inner jacket must be spiral wrapped with a clear, moisture resistant binder tape and filled with an amorphous water-block compound. The outer jacket must be 0.042" thick cross-linked polyethylene (XLPE).</p> <p>The cross-linked polyethylene (XLPE) insulation used for wire insulation and cable jacketing must be capable of withstanding temperatures up to 426 degrees Fahrenheit. Splices between the individual loop cable conductors, and the splices between the loop cable conductors and the lead-in cable conductors must be soldered, sealed, and waterproofed. The enclosure that encapsulates the spliced connections must be fabricated from a high impact glass impregnated plastic with a minimum thickness of 0.240". The two halves of the splice enclosure must be sealed with a water resistant gasket material. The interior cavity of the splice enclosure must be completely filled with an amorphous water block compound. The splice enclosure must be submerged in a saltwater solution for three (3) days. At the end of this three day period, the electrical integrity of these splices must be verified by using a 500 Volt DC MegaOhm meter to ensure that the resistance between either lead-in conductor and the saltwater solution is 200 MegaOhms or greater.</p>	Test	Specification Limits	Skin Time at 77° F	2 hours maximum	Cure Time at 77° F	48 hours maximum	Tensile Strength (ASTM D-142)	600 psi minimum	Elongation (ASTM D-412)	300 % maximum	Linear Shrinkage (ASTM D-2566)	0 %	Hardness Shore A (ASTM D-2240)	70 minimum	Test	Specification Limit	Termosel Viscosity at 400°F (ASTM D-4402)	4000 cp maximum	Penetration, 125°F, 50 g, 5 s (ASTM D5)	50 maximum	Penetration, 77°F, 100g, 5 s (ASTM D5)	10-25	Softening Point (ASTM D36)	210°F minimum	Ductility, 77°F (ASTM D113)	15 cm minimum
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12/20/2024	9-32.8	SERVICE CABINET	<p><b>Add the following at the end of first paragraph:</b></p> <p>The service cabinet service address and system labels must be permanently mounted phenolic labels with location of mounting, background and letter size per SCL Standards. The Contractor must coordinate with the SCL Electrical Service Representative to confirm correct labelling prior to installation.</p>																										
12/20/2024	9-36	DETECTABLE WARNING	<p><b>Add the following TWO NEW Sections:</b></p> <p><b>9-36.5 DETECTABLE DIRECTIONAL STRIP – CAST-IN-PLACE</b></p>																										

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			<p>The detectable directional strip must be cast-in-place material and match the dimensions shown in the Drawings and Standard Plan 422i. The detectable directional strip must be Federal Safety Yellow, non-slip surface and be installed per manufacturer's recommendations. Contractor must provide the Engineer with a submittal of manufacturer's details for review.</p> <p><b>9-36.6 DETECTABLE DIRECTIONAL STRIP – SURFACE APPLIED</b></p> <p>The detectable directional strip must be capable of being bonded to an existing cement concrete and asphalt surface. The surface of the detectable directional strip, including the tactile bumps, must not be more than 3/8 inch above the finished grade after installation.</p> <p>The detectable directional strip must be all-season methyl methacrylate (MMA) and match the dimensions shown on the Drawings or as shown in the Standard Plans. The MMA must be retro-reflective, durable, color stable, non-slip surface meeting the material requirements of Section 9-29.3(4) and be installed per manufacturer's recommendations.</p> <p>Material properties: Methyl methacrylate mixed with quartz aggregate for increased skid resistance. The finished detectable directional strip must meet the following:</p> <table border="1"> <tr> <td>Skid</td><td>&gt;60</td><td>ASTM E274</td></tr> <tr> <td>Hardness</td><td>50-60</td><td>ASTM D2240</td></tr> <tr> <td>Solids</td><td>99 %</td><td>ASTM D1644</td></tr> </table> <p>Federal Yellow MIMA Resin:</p> <table border="1"> <tr> <td>Tensile</td><td>&gt;2000 PSI</td><td>ASTM D638</td></tr> <tr> <td>Elongation</td><td>&gt;70%</td><td>ASTM D638</td></tr> <tr> <td>Flash Point</td><td>&gt;IOC</td><td>ASTM D1310</td></tr> <tr> <td>Density</td><td>12.86</td><td>LBs/Gal</td></tr> </table> <p>Aggregate:</p> <table border="1"> <thead> <tr> <th>Dry Bulk Density g/cm3</th><th>Porosity</th><th>Saturated Hydraulic Conductivity Ks, cm/s</th><th>D<sub>10</sub>, mm</th><th>D<sub>50</sub>,mm</th><th>D<sub>60</sub>, mm</th><th>Uniformity Coefficient</th></tr> </thead> <tbody> <tr> <td>1.60</td><td>0.397</td><td>0.55</td><td>0.62</td><td>0.88</td><td>0.90</td><td>1.5</td></tr> </tbody> </table> <p>Formulation:  2 gallons of Federal Yellow MMA resin  25 lbs. hard wearing aggregate  Catalyst as recommended by manufacturer for ambient and road temperature  Material must be installed as specified with manufacturer's certification. Contractor must have installation certification approved prior to install.</p>	Skid	>60	ASTM E274	Hardness	50-60	ASTM D2240	Solids	99 %	ASTM D1644	Tensile	>2000 PSI	ASTM D638	Elongation	>70%	ASTM D638	Flash Point	>IOC	ASTM D1310	Density	12.86	LBs/Gal	Dry Bulk Density g/cm3	Porosity	Saturated Hydraulic Conductivity Ks, cm/s	D <sub>10</sub> , mm	D <sub>50</sub> ,mm	D <sub>60</sub> , mm	Uniformity Coefficient	1.60	0.397	0.55	0.62	0.88	0.90	1.5
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12/20/2024	9-38	TEMPORARY TRAFFIC CONTROL MATERIALS	<p><b>Add the following Sections:</b></p> <p><b>9-38.16 TEMPORARY PEDESTRIAN CURB RAMPS</b></p> <p>Temporary pedestrian curb ramps must be constructed as shown in the traffic control plans or be pre-manufactured devices meeting the requirements of the ADA Accessibility Standards, see Chapter 4: Ramps and Curb Ramps at <a href="http://www.access-board.gov">www.access-board.gov</a>.</p>																																			

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			<p><b>9-38.17 PEDESTRIAN CHANNELIZING DEVICES</b>  When exposed to vehicular traffic, pedestrian channelizing devices must meet the crashworthiness requirements of NCHRP 350 or MASH as described in Section 1-10.2(5)B. The bottom and top surfaces of the pedestrian channelizing device must have 6-inch retroreflective bands matching the body color of the device fabricated from Type IV (High Intensity) or a higher type reflective sheeting.</p>
12/20/2024	SP 003H	STANDARD SYMBOLS SEWER & DAINAGE	Add new symbols for junction box type 277A and 277B.
12/20/2024	SP 230	2'-0" DIAMETER FRAME AND COVER	Revise note 5
12/20/2024	SP 260C	CATCH BASIN & INLET INSTALLATION WITH STANDARD PLAN 263B ALTERNATIVE HOOD	Correct "TYPES" shown in both upper graphics.
12/20/2024	SP 266	TYPE 266 REPLACEMENT VANED GRATE	Corrected order of notes.
12/20/2024	SP286A	SEWER/STORM DRAIN & WATERSPACING AND CLEARANCES	Title and call-outs revised to include Storm Drains
12/20/2024	SP 295A, 295B 295C 295D	TYPICAL DRAIN CURB CUT LOCATION FOR BIORETENTION WITH SLOPED SIDES	Section reference added.
12/20/2024	SP 314B	CLEARANCES FOR TYPICAL WATER SERVICE VAULTS & METER BOXES	Title Revised – many notes revised to add clarity and to provide congruence with other City provided guidance.
12/20/2024	SP 316	WATER SERVICE CONNECTION TO NEW WATER MAIN	NEW Standard Plan
12/20/2024	SP 424A	EXPANDABLE TREE PIT DETAIL	Add root barriers and remove callouts for Type A and Type B stating: "Flexible Porous Surface Treatment over 2" Min Depth Mnrl Agg Type 22"
12/20/2024	SP 424B	TREE PIT DETAIL	Add root barrier
12/20/2024	SP 430A	TYPE 430 A DRIVEWAY	Revised Note: 8

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12/20/2024	SP 456A	TEMPORARY PEDESTRIAN WALKWAY	<b>SP renumbered</b>
12/20/2024	SP 456B	TEMPORARY PEDESTRIAN CURB RAMP	<b>NEW Standard Plan</b>
12/20/2024	SP 700	TRAFFIC BUTTONS & LANE MARKERS Note: also see Section 9-21.2(1)	<b>Revised dimensions for Lane Marker 2A</b>

**End of document**