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1. MMCD SECTION 01 33 01 PROJECT RECORD DOCUMENTS

1.0 GENERAL

1.7 Recording Site Conditions

1.7.5 *Add New Specification:*

"From the day of commencement of the *Work*, the *Contractor* will maintain a careful daily record of the progress of the *Work* on his standard record form, with applicable trades listed. This record will be open to the *Owner's* inspection at all reasonable times. A copy of the record will be turned over to the *Owner* at weekly intervals."

1.7.6 *Add New Specification:*

"Contractor's diary shall record all pertinent data such as:

1.1 Daily weather conditions including maximum and minimum temperatures.

1.2 Commencement, progress and completion of various portions of the *Work*.

1.3 Dates of visits or inspections by government authorities, inspectors, and any other visitors to the *Site*.

1.4 Record of *Work* force employed, and *Work* performed thereby."

2. MMCD SECTION 01 55 00 TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING

1.0 GENERAL

1.0.7 *Add New Specification:*

"The *Contractor* will designate a Traffic Control Supervisor/Site Safety Officer responsible for *Site* safety and traffic control with specific training as identified in the MoTT Traffic Control Manual and *Work* Safe BC. The Traffic Control Supervisor must review signage identified in the *Contractor* 's Traffic Plan prior to construction and then on a daily basis."

1.0.8 *Add New Specification:*

"Public relations related to the *Works* and Traffic Control Plan is the responsibility of the *Contractor* and is considered incidental to the *Work*."

1.0.9 *Add New Specification:*

"The *Contractor* will provide daily notification and coordination as required with all emergency and public services, including garbage collection, all emergency medical services, Canada Post, Public Transit, school buses and all impacted residents and businesses. The *Contractor* is required to provide 48 hours notification to the *Owner* prior to any changes to the traffic control measures."

3. MMCD SECTION 01 57 01 ENVIRONMENTAL PROTECTION

1.0 GENERAL

1.4 Environmental

1.4.4 *Add New Specification:*

"Contractor to follow all the provisions and requirements within the *Owner* provided Environmental Management Plan and provide a Construction Environmental Management Plan (CEMP):

(1) The *Contractor* will prepare and submit a site-specific CEMP to the *Contract Administrator* for review and acceptance no later than 10 working days prior to the commencement of construction activities.

(2) The CEMP must meet the requirements as stated in the *Owner* supplied EMP in the *Contract Documents.*

(3) The *Contractor* will ensure that all personnel and subcontractors are familiar with and comply with the CEMP.

(4) The *Contractor* will maintain a copy of the approved CEMP on-site at all times and will conduct regular inspections and monitoring as outlined in the CEMP and submit weekly environmental compliance reports to the *Contract Administrator*.

(5) Failure to comply with the approved CEMP may result in work stoppage, penalties, or other actions as deemed necessary by the *Owner*."

1.4.5 *Add New Specification:*

"First Nation Consultation – Consultation with the Sḵwxw̱ú7mesh Úxwumixw (Squamish Nation) is necessary to

facilitate fieldwork. If any Archeological material is discovered, the *Contract Administrator* and *Owner* will be informed immediately and work halted until the *First Nations* have been consulted and direction have been given to resume work. The *Contractor* be required to coordinate and work with these organization to facilitate their fieldwork."

4. MMCD SECTION 01 58 01 PROJECT IDENTIFICATION

1.0 GENERAL

1.2 Temporary Project Signage

1.2.1 *Add New Specification:*

" (6) Two (2) solar digital message signs, one placed at each end of the project limits displaying; "Reed Road, Water Line Work (Start date to End date) Use ALT Route" at approved locations by the *Contract Administrator* "

1.2.1.1 *Delete:*

"Provide and erect, within 3 weeks of signing *Contract*, a project sign in a location designated by *Contract Administrator."*

Replace with:

"Provide and erect, 14 days prior to project start date, a project sign in a location designated by *Contract Administrator."*

1.2.1.2 *Add New Specification:*

"The *Contractor* to erect a wood framed project informational sign with retro-reflective high intensity prismatic sheeting, Black lettering on white background/ *Owner* colour logo to be included in top left corner of sign. Black lettering to state:

"Reed Road Watermain Replacement"
"Completion" Date: Fall 2026"

"Your Dollars At Work"

The sheeting must meet ASTM D4956 Type III or IV Standards.

Contractor to submit a PDF of sign to the *Owner* prior to fabrication. Size of sign to be a minimum of 1.2m high by 2.4m wide."

1.2.2.1 *Delete:*

"Advise residents and/or other parties within the affected area of planned construction activities and schedule. Coordinate with and obtain *Contract Administrator*'s approval before delivery or mailing of public notices."

Replace with:

"Contractor to deliver to businesses and residents' copies of letter, provided by the *Owner*, advising these persons of intended construction activities. The *Contractor* will deliver these letters no sooner than Fourteen (14) Days and no later than Seven (7) Days before the start of construction in the affected area."

5. MMCD SECTION 01 71 13 MOBILIZATION AND DEMOBILIZATION

1.0 GENERAL

1.1 *Add New Specification*

"The lump sum price for Mobilization and Demobilization will be inclusive of all mobilization and demobilization activities required for the Project, including any breaks between phases of work such as underground construction and final pavement restoration. No additional payment will be made for remobilization or demobilization at any stage.

The Contractors lump sum price for mobilization, cleanup, and demobilization will cover all costs associated with moving in, cleanup, and moving out, as well as any other fixed costs related to the Project that are not materially affected by changes in work quantities.

Payment Schedule:

- 70% of this item will be included in the first monthly estimate, provided the Contractor is fully mobilized and construction has commenced.
- 30% will be included in the final estimate upon completion of the work, removal of all equipment from the Project site, and acceptance of cleanup by the *Owner*.

Paved street surfaces must be thoroughly cleaned upon completion of work daily within the work area. Prior to job acceptance, all streets will be inspected and cleaned in its entirety.

Mobilization will include, but not be limited to:

- Movement of Contractor's personnel, equipment, supplies, and incidentals to and from the Project site.
- Establishment and removal of offices, buildings, and other facilities necessary for the Project.

- Provision of sanitary facilities for Contractor's personnel.
- Daily cleaning of paved surfaces as necessary to minimize dust and mud.
- Maintaining the Project site in a neat and orderly condition at all times to the *Owner*'s satisfaction.
- Obtaining permits or licenses required to complete the Project, except those furnished by the *Owner*.
- Installation and removal of all Signage.

Unit of Measure: Lump Sum (LS)"

6. MMCD SECTION 03 30 20 CONCRETE WALKS, CURBS AND GUTTERS

1.0 GENERAL

1.4 Measurement and Payment 1.4.8 *Delete:*

"Payment for adjustment of existing catch basins and other utilities covers required for installation of curb and gutter and walks will be made for each item to be adjusted. Relocation, if required, will be paid for as newly installed items."

Replace with:

"No *Payment* for adjustment will be made of existing catch basins and other utilities covers required for installation of curb and gutter and walks will be incidental to the *Work*. Adjustment will include removal of existing frame and cover; cleaning; re-set to meet new grade, profile and cross fall; replace grade rings."

7. MMCD SECTION 31 11 41 SHRUB AND TREE PRESERVATION

1.0 GENERAL

1.3 Measurement and Payment 1.3.1 *Delete:*

"Payment for all shrub and tree preservation and grade changes items includes all applicable *Work* described in this Section and shall cover all area of shrubs or individual trees to be attended to as shown on *Contract Drawings* or as directed by *Contract Administrator."*

Replace with:

"Payment for all shrub and tree preservation, including tree protection fencing, grading, exposing root zone and hand excavation, and *Works* deemed necessary by a certified arborist or the *Contract Administrator*, is applicable to all *Work* performed under this Section, and incidental to *Payment* for *Work* described in other Sections unless shown otherwise in the *Schedule of Quantities and Prices."*

8. MMCD SECTION 31 15 60 DUST CONTROL

3.0 EXECUTION

3.1 Application

3.1.5 *Add New Specification:*

"The *Contract Administrator* may request additional street cleaning which will be at the Contractor's expense."

3.1.6 *Add New Specification:*

Aqueous chloride and magnesium cannot be used for *Work* areas within 100m of a watercourse, and *Work* areas that are draining to a watercourse.

9. MMCD SECTION 31 23 01 EXCAVATING, TRENCHING AND BACKFILLING

1.0 GENERAL

1.7 Disposal

1.7.2 *Add New Specification:*

"The *Contractor* will locate their own legal dump *Site* for disposal of all soil, rock and other unsuitable or excess material that results from the completion of the *Work*."

1.7.3 *Add New Specification:*

"The *Contractor* will dispose of any AC pipe in accordance with all applicable regulations."

1.11 Inspection and Testing

1.11.2 *Add New Specification:*

"Testing to meet requirements of Geotechnical Report included in *Contract Documents* or as directed by the *Contract* Administrator."

3.0 EXECUTION

3.5 Backfill and Compaction

3.5.3.7 *Add New Specification:*

"Backfill and Compaction to meet requirements of Geotechnical Report included in *Contract Documents* or as directed by the *Contract* Administrator."

3.7 Temporary Gravel Surface.

3.7 *Add New Specification:*

"3.7.1 Ensure the temporary gravel surface is even and does not have irregularities exceeding 10mm when checked with a 3m straightedge placed in any direction. *Contractor* will be responsible for maintaining a smooth gravel surface to the motoring public at all times, and must respond to any *Owner* requests to fix any potholes/rutting that may

develop at the *Contractor* expense. Temporary gravel surface is incidental to temporary pavement patching."

3.8 Permanent Trench Patch 3.8 *Add New Specifications:*

3.8.1 Supply and installation of Temporary Trench Patch within trench excavations and utility cuts to maintain safe and functional roadway conditions during construction. Temporary Trench Pavement patches shall be completed at a minimum and traffic ready no later than 5:00 PM local time each Friday or as directed by the *Contract Administrator*.

3.8.2 Payment for Temporary Trench Patch is by square meters in neat line measurement. Any asphalt removal and repatching for service and hydrant connections will be paid by square meter. No payment will be made for repair or maintenance on temporary patch from normal traffic use.

10. MMCD SECTION 32 01 16.7 COLD MILLING

1.0 GENERAL

1.5 Measurement and Payment

1.5.4 *Add New Specification:*

"Payment for supply, installation and removal of temporary asphalt slope around manholes, valve covers, and utility covers is incidental to the milling *Work*."

3.0 EXECUTION

3.2 Preparation

3.2.4 *Add New Specification:*

"All manhole rims, valve covers, and utility cover lids must have an asphalt slope from the top of the lid to milled surface of sufficient length to prevent damage to vehicular traffic. These slopes are to be completely removed immediately prior to final paving. These appurtenances must be monitored until final paving. Use of temporary sloped collar will also be acceptable for a period of less than 7 days."

3.4 Placing

3.4.6 *Add New Specification:*

"Unless otherwise specified in writing by *Contract Administrator*, the milling of the existing asphalt will be followed by repaving within a maximum of 5 calendar Days, weather permitting, of the commencing of the milling. The milled asphalt surface will be graded, monitored signed and maintained at no additional cost to the *Owner*."

11. MMCD SECTION 32 12 16 HOT MIX ASPHALT CONCRETE PAVING

1.0 GENERAL

1.5 Measurement and Payment

1.5.2 *Add New Specification:*

"(3) Asphalt Permanent Restoration Density Testing Requirements to be completed by the *Contractor* as specified in Geotechnical Report."

1.5.2 *Add New Specification:*

"(4) Asphalt Marshall Density 1-Per 400 Tonnes, Minimum 1 Per Day."

1.5.7 *Delete:*

"Payment for saw cutting asphaltic concrete of Portland cement concrete pavement will only be made for permanent reinstatement and other specific work shown on *Contract Drawings* or as directed by *Contract Administrator* and will not include saw cutting prior to trench excavation for pipe laying work."

Replace with:

"Payment for saw cutting asphaltic concrete or Portland cement concrete pavement will be considered incidental to Permanent Pavement Restoration. Saw cutting must meet all MMCD and MoTT requirements and Standards."

1.5.9 *Add New Specification:*

"Measurement for Permanent Pavement Restoration will be paid by square metre neat line measure and will include removal and disposal of existing temporary patch, and asphalt cutting for a clean trench edge. Also included in the measurement and payment is trench subgrade final shaping, compaction and testing

and first lift trench paving and full lane 35mm compacted depth overlay. Paving to meet requirements of Geotechnical Report included in *Contract Documents* or as directed by the *Contract Administrator.* Permanent trench patch will be paid as one line item, 35mm compacted overlay as a second line item.

(1) If thickness is less than that specified, *Contract Administrator* may require asphalt removal and replacement in deficient areas with no additional payment for the overlay and any other work necessary to place such overlay.

(2) If thickness is greater than specified, *Contract Administrator* may accept the work, if the excess thickness is acceptable; or may require the work to be removed and replaced with appropriate thickness, all without additional payment.

(3) Asphalt concrete must be restored to a minimum of 85mm thickness within the waterline trench width in two compacted lifts. Asphaltic concrete must meet ministry standards as set out in Section 502, Standard Specifications for Highway Construction, latest edition.

(4) Asphalt concrete for the trench patch restoration area is to be placed in 2 or more lifts or layers; Each lift is to be thoroughly, cleaned and compacted before successive lifts are applied.

(5) Eradication of existing lane markings, placement and maintenance of temporary markings and final lane line paintings. Will be the responsibility of the *Contractor.* All materials and procedures must comply with Ministry specifications and Manual of Standard

Traffic Signs & Pavement Markings, most current version.

(6) The *Contractor* will arrange a final inspection of the installation with the *Owner* and *Ministry* upon completion. Any deficiencies identified during the inspection must be repaired by the Contractor within 2 weeks (weather permitting).

(7) Restore pavement as detailed on supplemental Detail G5. Pavement surface must be dry and clean, dry edge with asphalt emulsion (tack coat).

(8) Place and compact hot-mix pavement material to 35mm minimum compacted thickness as shown in Detail G5.

(9) Material and placement of hot-mix pavement to Section 32 12 16 – Hot-Mix Asphalt Concrete Paving.

(10) Restore surface to smooth condition and match with grade of adjacent pavement.

(11) Where shown on *Contract Drawings* place hot-mix overlay over restored trench section and adjacent pavement to Section 32 12 16 Hot-Mix Asphalt Concrete Paving.

Temporary pavement shall be maintained by the *Contractor* until permanent pavement restoration is completed—effect repairs immediately if unsuitable roadway condition exists if so directed by *Contract Administrator."*

.3.0 EXECUTION

3.3 Preparation 3.3.3 *Delete:*

"Adjust existing castings to new elevations and protect from asphaltic mix."

Replace with:

"Adjust existing castings to be flush with the final finished surface and protect from asphaltic mix. *Contractor* will inform utility agencies with sufficient notice in regard to the affected utility covers. The *Contractor* will loosen the utility covers and make adjustments. Adjustment will be completed by the *Contractor*. Adjustment will be completed at least 1 day prior to paving.

If after final paving, there exists a hump or depression around the castings, the *Contractor* must cut out a circular 300 mm wide patch, raise to finish grade the casting so it is flush to grade and place hot mix back around the casting so as to ensure there is not a hump or depression around the castings."

3.7 Joints 3.7.4 Delete:

"Construct feather joints so that thinner portion of joint contains fine graded material obtained by changed mix design or by raking out coarse aggregate in mix. Place and compact joint so that joint is smooth and without visible breaks in grade. Location of feather joint as specified."

Replace with:

"Feather joints are not permitted. Butt joints only. All joints must be flush in elevation with the adjacent pavement so that there is no bump created at the join point. If after finish paving a bump exists the *Contractor* will be required to remove the bump by milling the pavement for a minimum of 10 m on each side of the joint to ensure there is no bump present."

12. MMCD SECTION 33 11 01 WATERWORKS

1.0 GENERAL

1.0.3 *Add New Specification*

"All 300mm ductile iron pipe and Items listed in the Contract Documents will be supplied by the *Owner*. *Contractor* to retrieve from the *Owner* at a location as noted in the *Contract Documents*. *Contractor* to provide a minimum of 72 hours' notice to the *Owner* prior to pick up."

1.6 Record Drawings 1.6.2 *Add New Specification*

"Information to be provided in handwritten red lined full sized markups to the *Owner*. Submit weekly to the *Owner* for review. This information will include, but is not limited to:

1.1 Inverts and locations at Valves, Services, Bends, Tees.

1.2 Culverts inlet and outlet

1.3 Watermain Alignment

1.4 Fire Hydrant Locations

1.5 Replaced water service locations

1.7 Scheduling of Work 1.7.4 *Delete:*

"Do not interrupt water service for more than 3 h and confine this period between 09:00 and 16:00 h unless otherwise authorized."

Replace with:

"A minimum of 48 hours prior to interruption, the *Contractor will* provide written notification, pre-approved by the *Owner*, to Emergency Services, and to

affected residents of impending water service interruption. Affected consumers to be identified in conjunction with the *Owner*. No services will be interrupted for more than 8-hours in any 1 day. If necessary, then temporary service must be provided."

1.7.6 *Add New Specification:*

"Existing services, hydrants, and mains to be tied after new main has passed pressure and chlorine bacteriological testing by the *Contractor* and to be witnessed by the *Owner*. Coordination of changeover will limit interruption of service as noted in 1.7.4. and be approved by the *Contract Administrator*."

1.7.7 *Add New Specification:*

"Prior to start of construction the *Contractor* with consultation of the *Owner* shall provide a detailed Chlorination and Pressure testing plan as well as a plan for changeover of services and hydrants to the new main with procedures and expected service interruption durations. Both plans are to be approved by the *Owner*."

1.8 Measurement and Payment

1.8.2 *Delete:*

Payment for watermain and service connections include saw cutting pavement, trench excavation, disposal of surplus excavated material, bedding, supply and installation of all pipe, bolts, gaskets and tie rods, imported or native backfill as shown on the *Drawings,* cleaning, pressure and leakage testing, flushing, disinfection, all surface restoration as specified under *Section 31 23 01 – Excavating, Trenching and Backfilling* – 3.6, except permanent pavement restoration, and all other work and materials necessary to complete the installation as shown on the *Drawings* and specified under this section.

Replace with:

"Payment for watermain and service connections include saw cutting pavement, trench excavation, disposal of surplus excavated material, bedding, supply and installation of all pipe, bolts, gaskets, tie rods, and imported or native backfill as shown on the *Drawings* or as directed by *Contract Administrator,* cleaning, pressure and leakage testing, flushing, disinfection, all surface restoration as specified under *Section 31 23 01 – Excavating, Trenching and Backfilling* – 3.6, except permanent pavement restoration, and all other work and materials necessary to complete the installation as shown on the *Drawings* and specified under this section.

All services to be pushed or bored or by an approved procedure under existing asphalt and ditches. No open cut will be allowed in these areas. The Contractor shall ensure that all services and hydrants installed are restored to conditions equal to or better than those existing prior to excavation"

2.0 Products

2.1 General 2.1.4 *Add New Specification:*

"All Fire hydrants to be Terminal City 20 dry barrel hydrant equipped with a Storz quick-connect pumper port."