

**THE CITY OF EDMONTON**

**PROJECT AGREEMENT  
VALLEY LINE WEST LRT**

***Schedule 28  
Project Approvals and Utility Matters  
Part 2 – Utility Matters***

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**SCHEDULE 28  
PROJECT APPROVALS AND UTILITY MATTERS  
PART 2 – UTILITY MATTERS**

**1. GENERAL**

**1.1 Definitions**

In this Part 2 - Utility Matters of this Schedule, capitalized terms have the meanings given in Schedule 1 *[Definitions and Interpretation]* and the following capitalized terms have the following meanings:

- 1.1.1 **“Assumed Incomplete City Utility Work”** means Incomplete City Utility Work that has become the responsibility of Project Co pursuant to Section 2.12 *[Incomplete City Utility Work]* of this Schedule.
- 1.1.2 **“Betterment”** means work performed by a Utility Company for its benefit in relation to the Utility Infrastructure that is incremental to the scope of work reasonably necessary to permit Project Co to carry out the Project Work but does not include any Utility Work performed to conform with the Utility Company or City specifications or standards.
- 1.1.3 **“City Support Statements”** has the meaning given in Section 2.8 *[City Support Statements]* of this Schedule.
- 1.1.4 **“City Utility Work”** means all Utility Work activities or undertakings described in Appendix 28-2A *[City Utility Work Completed Prior To Effective Date]* and Appendix 28-2B *[Incomplete City Utility Work]*, but excluding Assumed Incomplete City Utility Work.
- 1.1.5 **“Deferred Utility Work”** means all Utility Work activities or undertakings described in Appendix 28-2C *[Deferred Utility Work]*.
- 1.1.6 **“Eligible Utilities Costs”** means amounts invoiced to Project Co directly by a Utility Company pursuant to carrying out Utility Works, including in respect of the following:
  - (a) by EPCOR D&T for Utility Complex electrical servicing costs;
  - (b) Utility Service Connections; and
  - (c) Permitted Relocations;but excludes **“Ineligible Utilities Costs”**.
- 1.1.7 **“Excess Eligible Utilities Costs”** has the meaning given in Section 4.1.2 *[Utility Costs]*.
- 1.1.8 **“Excess Utilities Costs Reports”** has the meaning given in Section 4.1.3 *[Utility Costs]*.
- 1.1.9 **“Excess Utilities Costs Ruling”** has the meaning given in Section 4.1.4 *[Utility Costs]*.
- 1.1.10 **“Excess Utilities Costs Ruling Request”** has the meaning given in Section 4.1.4 *[Utility Costs]*.
- 1.1.11 **“Existing Utility Agreements”** means the Utility Agreements listed and described in Appendix 28-2E *[Existing Utility Agreements]*.

- 1.1.12 **“Existing Utility Service Connections”** means existing Utility Service Connections to Adjoining Lands;
- 1.1.13 **“Franchise Agreements”** means those Existing Utility Agreements identified as **“Franchise Agreements”** in Appendix 28-2E [*Existing Utility Agreements*] to this Schedule.
- 1.1.14 **“Future Utility Work”** means Utility Work:
- (a) occurring after Construction Completion; or
  - (b) which (i) was not disclosed or known to Project Co prior to the Financial Submission Date; and (ii) is not required to accommodate the Design, Construction, or operation of the Infrastructure.
- 1.1.15 **“GeoEdmonton”** means the City’s spatial data system, created and managed using geographic information system technology.
- 1.1.16 **“Incomplete City Utility Work”** means all City Utility Work activities or undertakings described in Appendix 28-2B [*Incomplete City Utility Work*].
- 1.1.17 **“Initial Eligible Utilities Costs”** means Eligible Utilities Costs up to and including the amount of [REDACTED].
- 1.1.18 **“Ineligible Utilities Costs”** means costs and/or expense incurred by Project Co for Utility Work in respect of the following:
- (a) the Utility Work Relief Events set out in Sections 11.1(d)(i), (ii) and (iii) of this Agreement;
  - (b) relocation of City Utility Work, Assumed Incomplete City Utility Work, Utility Infrastructure Left-in-Place, other than Permitted Relocations;
  - (c) any subsequent relocation of Deferred Utility Work;
  - (d) Utility Infrastructure Not To be Relocated;
  - (e) managing, supervising (including supervising others) and undertaking Project Co Utility Work;
  - (f) acceleration costs or other increased costs incurred by Utility Companies for Project Co Utility Work resulting from any Project Co request to change the Utility Design and/or Utility construction schedule prepared by the Utility Company in accordance with the Existing Utility Agreements.
  - (g) temporary and drainage Utility Service Connections
  - (h) Utility consumption expenses;
  - (i) Betterment; and
  - (j) professional fees and expenses.

- 1.1.19 **“Maximum Excess Eligible Utilities Costs Amount”** means an amount equal to [REDACTED].
- 1.1.20 **“New Utility Service Connections”** means new Utility Service Connections to the Infrastructure;
- 1.1.21 **“Permitted Relocations”** means relocation of, or relating to, City Utility Work, Assumed Incomplete City Utility Work and Utility Infrastructure Left-in-Place to the extent Project Co demonstrates to the City’s reasonable satisfaction that, notwithstanding implementation of Utility Best Practices, such City Utility Work, Assumed Incomplete City Utility Work and Utility Infrastructure Left-in-Place is not able to be accommodated vis-à-vis the Project Work and must be relocated;
- 1.1.22 **“Pipeline Company”** means those owners and operators of Pipeline Infrastructure within or adjacent to the City Lands, including:
- ATCO Pipelines;
  - Keyera Corporation;
  - Legal Oil and Gas (administrated through Alberta Energy Regulator (AER) and the Orphan Well Association) (abandoned infrastructure);
  - TransMountain Pipelines;
  - Pembina Pipeline Corp; and
  - Plains Midstream Canada.
- 1.1.23 **“Pipeline Agreement”** has the meaning given in Section 2.5.4 [*Pipeline Agreements*] provided that, for clarity, **“Pipeline Agreements”** includes, without limitation, proximity and encroachment agreements, pipeline crossing agreements and temporary permits.
- 1.1.24 **“Pipeline Infrastructure”** means privately, publicly or cooperatively owned lines, facilities or systems for transmitting or distributing gas, oil and petroleum products, or other similar commodity or substance which serve the public directly or indirectly, including underground and surface facilities, as well as facilities on a shared basis and all related infrastructure.
- 1.1.25 **“Pipeline Interface Protocols”** has the meaning given in Section 2.2 [*Utility Best Practices*] of this Schedule.
- 1.1.26 **“Pipeline Work”** means all Project Co Utility Work in respect of or relating to Pipeline Infrastructure including, without limitation, the Utility Work or undertakings described in Appendix 28-2D [*Pipeline Work*].
- 1.1.27 **“Pre-ULA Process”** means the process developed and administered by Project Co in advance of, and to facilitate, the ULA Process. The Pre-ULA Process shall be consistent with the pre-ULA process recommended in Appendix 28-2G [*Utility Line Assignment (ULA) Data and Processes*] to this Schedule and, for certainty, shall include the following:
- (a) collection of draft Utility Design submissions from Utility Companies or Project Co, as the case may be;

- (b) distribution of draft Utility Design submissions to Project Co designers and Utility Company designers for review and comment, for the purpose of minimizing or eliminating conflicts arising during the ULA Process;
  - (c) collection, collation and distribution to relevant parties of review comments; and
  - (d) coordination of adjustments to submitted Design of the Infrastructure or Utility Design to address review comments and advance such designs for ULA Process submission. The Pre-ULA Process shall mirror the ULA system, including, but not limited to distribution of designs to all interested parties for solicitation of evaluation and feedback, as well as compliance with drawing standards.
- 1.1.28 **“Project Co Utility Work”** means, collectively, all Deferred Utility Work, any Assumed Incomplete City Utility Work and any other Utility Work that is required to accommodate the Design or Construction of the Infrastructure, including New Utility Service Connections required to operate the Project.
- 1.1.29 **“Public Utility Agreement”** means a Utility Agreement with a Public Utility Company.
- 1.1.30 **“Public Utility Company”** means those owners and operators of Public Utility Infrastructure within or adjacent to the City Lands, including:
- ATCO Gas;
  - Bell;
  - Zayo;
  - Rogers Communications;
  - Shaw;
  - TELUS;
  - EPCOR Distribution and Transmission; and
  - EPCOR Water Services Inc.
- 1.1.31 **“Public Utility Infrastructure”** means privately, publicly or cooperatively owned lines, facilities or systems for transmitting or distributing electricity, data, communications, sewage, water or other similar commodity or substance which serve the public directly or indirectly, including underground, surface and overhead facilities as well as facilities which use common poles, ducts or conduits on a shared basis, and all related infrastructure including, as applicable, Utility Service Connections.
- 1.1.32 **“Request for Excess Eligible Utilities Costs Payment”** has the meaning set out in Section 4.1.7 of this Schedule.
- 1.1.33 **“Rights of Way Consent and Access Agreement”** means each of the Existing Utility Agreements identified as “Rights of Way Consent and Access Agreements” or “Municipal Access Agreement” in Appendix 28-2E [*Existing Utility Agreements*] to this Schedule.
- 1.1.34 **“ULA Process”** has the meaning set out in Section 6.1.5 of this Schedule.

- 1.1.35 “**Utility Agreement**” means any written agreement entered into by the City or Project Co with a Utility Company in respect of Utility Work, including without limitation, Pipeline Agreements.
- 1.1.36 “**Utility Best Practices**” has the meaning given in Section 2.2 [*Utility Best Practices*] of this Schedule.
- 1.1.37 “**Utility Company**” means a Public Utility Company or a Pipeline Company.
- 1.1.38 “**Utility Conflicts**” has the meaning given in Section 6.2 [*Utility Conflicts*].
- 1.1.39 “**Utility Coordination**” means coordination of Utility Work pursuant to the Utility Coordination Plan.
- 1.1.40 “**Utility Coordination Plan**” has the meaning given in Section 2.4 [*Utility Coordination Plan*] of this Schedule.
- 1.1.41 “**Utility Design**” means design of Utility Infrastructure, specifically.
- 1.1.42 “**Utility Infrastructure**” means Pipeline Infrastructure and Public Utility Infrastructure, as applicable, provided that, for certainty, Utility Infrastructure may not be limited to infrastructure on or within the Lands.
- 1.1.43 “**Utility Infrastructure Left in Place**” has the meaning given in Section 6.4 [*Utility Infrastructure Left in Place*].
- 1.1.44 “**Utility Infrastructure Not To Be Relocated**” has the meaning given in Section 6.5 [*Utility Infrastructure Not To Be Relocated*].
- 1.1.45 “**Utility Report**” has the meaning given in Section 2.7 [*Utility Work Reporting*] of this Schedule.
- 1.1.46 “**Utility Service Connections**” means the Utility Infrastructure required, whether within or outside of the Lands, to connect a customer to Utility services;
- 1.1.47 “**Utility Work Relief Event**” means an event, condition or circumstance described in Section 11.1.1(d) of this Agreement.
- 1.1.48 “**Utility Work**” means all work activities or undertakings being carried out or to be performed in, on, under, over or otherwise in connection with the existence, before or after the Effective Date, of Utility Infrastructure.

For clarification, references in this Part 2 of Schedule 28 [*Project Approvals and Utility Matters*] to “*this Schedule*” shall be deemed to mean this Part 2 only and not the whole of Schedule 28.

## **2. PROJECT CO RESPONSIBILITIES**

### **2.1 General**

Subject to and in accordance with the terms of this Schedule and other applicable terms of the Agreement, Project Co shall be responsible for and shall assume all of the obligations, tasks, and risks related to the Project Co Utility Work.



## 2.2 Utility Best Practices

Without limiting any other provisions of this Agreement, Project Co shall perform the Project Co Utility Work in accordance with Good Industry Practice, including, without limitation, the following practices and standards and in compliance with the following obligations as applicable to this Project (collectively, “**Utility Best Practices**”):

- 2.2.1 using standards, practices, methods and procedures to a good commercial standard, conforming to Applicable Law;
- 2.2.2 proactively meeting and otherwise communicating regularly with all applicable Utility Companies, Governmental Authorities, and the City to investigate, forecast, anticipate, assess, coordinate, manage, minimize, and mitigate the impact of all Utility Work, including but not limited to City Utility Work and Project Co Utility Work, on the Project Work;
- 2.2.3 providing proactive, diligent, and prudent project management oversight of all Utility Work, including active coordination of Project Co Utility Work with the other Project Work and the City Utility Work;
- 2.2.4 undertaking and engaging in the Pre-ULA Process to collect draft submissions of Utility Design and Design relating to Infrastructure and obtaining and sharing feedback prior to engaging in the ULA Process;
- 2.2.5 reviewing, listing, and commenting upon ULA applications from Utility Companies that relate to Utilities in proximity to the Lands to identify any Utility Conflicts and to facilitate coordination of Utility Conflict mitigations so as to ensure that any Utility Conflicts arising from these Utilities do not adversely impact the Project;
- 2.2.6 identifying locations for which there is inadequate Utility Design information, undertaking the necessary diligence to identify any Utility Conflicts and, if applicable, designing and constructing Utility Conflict mitigations;
- 2.2.7 identifying and addressing Utility Conflict mitigations that could involve work outside the Lands;
- 2.2.8 developing, providing to the City and relevant Utility Companies, and updating, as necessary, a comprehensive standard separation criteria table identifying the separation criteria provided by each Utility Company;
- 2.2.9 developing, providing to the City and relevant Utility Companies, and updating, as necessary, a listing of Utility Company approved variances to standard separation criteria associated with each Utility Design location;
- 2.2.10 developing and maintaining a comprehensive and current listing of Utility Conflicts that will be provided to the City and the applicable Utility Companies and revising the list of potential impacts and updating the concept Utility Design mitigation, where applicable;
- 2.2.11 For each Utility Conflict:
  - (a) developing a concept Utility Design and including in the concept Utility Design a recommended horizontal and vertical realignment of the Utility Infrastructure which will successfully mitigate the Utility Conflict;

- (b) providing comprehensive revised Utility Design and/or Project Co Infrastructure Design and related updates to the City and the applicable Utility Company in a timely fashion; and
  - (c) confirming with each Utility Company the format of information acceptable to the Utility Company and supplying information in the identified format.
- 2.2.12 for each Utility Conflict, developing and maintaining a Utility Conflict mitigation schedule that will contain the estimated duration of Utility Design, construction and associated tasks for completion of the Utility Conflict mitigation, including in relation to applicable cabling, terminations or abandonments of Utility Infrastructure. This schedule shall be developed, updated and provided to the City and applicable Utility Companies on a monthly basis;
- 2.2.13 designing Infrastructure to meet separation requirements or other applicable design parameters so as to avoid Utility Conflicts with existing or recently relocated Utility Infrastructure or, where this is not possible, pursuing, in conjunction with the relevant Utility Company, the development and execution of a cost-efficient Utility Design that mitigates the relevant Utility Conflict;
- 2.2.14 where it is not possible to meet standard separation requirements, requesting variances from standard separation requirements from the applicable Utility Companies, any applicable Governmental Authority or the City, and obtaining confirmation of non-objection by way of a formal variance request document, circulated to each of the City and relevant Utility Companies;
- 2.2.15 distributing on a monthly basis to each Utility Company and the City, Project Work CAD base files and design drawings relevant to Utility Work, in a form and through delivery methods acceptable to the relevant entity acting reasonably;
- 2.2.16 complying with all Utility Company requirements, policies and guidelines, including guidelines and specifications provided by the Utility Companies;
- 2.2.17 utilizing experienced, qualified and trained Project Co Persons having credentials consistent with reputable consultants or contractors specializing in the relevant type of Utility Work;
- 2.2.18 diligently and proactively organizing all meetings, communications, exchanges of information and ensuring timely submission of Utility Conflict identifications, mitigation designs, drawings, construction schedules and plans among Project Co, Project Co Persons, Utility Companies, the City, City Persons, Governmental Authorities and other relevant Persons to facilitate the orderly, cost effective, and timely completion of all Project Co Utility Work in a manner that mitigates potential delays to the Project and the Project Work, and the Infrastructure;
- 2.2.19 diligently coordinating, accommodating and supporting the Utility Companies and the City in the completion of any Incomplete City Utility Work;
- 2.2.20 supporting, coordinating and accommodating Utility Companies in their performance of Utility Work in accordance with the terms of this Agreement;
- 2.2.21 complying with the Accepted Utility Coordination Plan;
- 2.2.22 providing timely information to Stakeholders regarding Design and Construction, and other activities as is necessary for the effective and efficient performance of the Project Co Utility

Work and other Project Work, including identifying and disclosing to relevant Stakeholders in a timely manner:

- (a) the Utility Infrastructure that is expected to be affected by the Project Work;
- (b) the Project Work that is expected to be affected by the Utility Infrastructure;
- (c) the Existing Utility Service Connections that require retention and augmentation to maintain customer services in operation during and following Construction Completion;
- (d) the New Utility Service Connections and the support required for the performance of the Project Work; and

- 2.2.23 providing timely responses to enquiries and requests from Utility Companies, including requests for review and comment on Utility Design and performance of field reviews;
- 2.2.24 taking reasonable steps to avoid, and to mitigate the impact of, disputes in relation to Utility Work as between Project Co and the City or a Utility Company or between the City and a Utility Company;
- 2.2.25 accommodating requests from the City and Utility Companies for adjustments to scheduled Project Work activities as reasonably required to permit the effective, coordinated and efficient performance of the Utility Work and the Project Work;
- 2.2.26 consistent with the Accepted Utility Coordination Plan, sequencing the Project Co Utility Work to facilitate a progressive flow of relevant Design Data and other Submittals to the City and the Utility Companies in order to permit sufficient time for review and response, taking into account: (i) any agreed review and response times; (ii) the volume and complexity of the Submittals; and (iii) and the resources available to the City and the applicable Utility Companies to consider such Submittals;
- 2.2.27 in good faith, having regard to the best interests of the Project, diligently and proactively arranging, negotiating and entering into all approvals, arrangements, understandings, guidelines and agreements which may be contractual and legally binding or non-contractual and non-binding (but confirmed in writing by the relevant Utility Company or the City) in order to supplement the Utility Agreements where reasonably possible and anticipated to be helpful;
- 2.2.28 complying with the applicable terms of the Existing Utility Agreements, the Pipeline Agreements and the terms of all other Utility Agreements, in each case, in accordance with this Schedule;
- 2.2.29 regularly consulting with relevant Governmental Authorities, industry associations and the Utility Companies regarding new developments and updated practices in relevant jurisdictions in relation to adopted codes, standards, conditions, protocols, and related practices applicable to work plans and activities similar to the Project Co Utility Work;
- 2.2.30 through diligent and proactive investigations and enquiries throughout the Design phase, consistent with Standard Due Diligence and subsurface utility engineering investigation methodologies, including but not limited to enhanced locating techniques (e.g. Sonde, CCTV, scanning, ground penetrating radar), exposure and surveying of Utility Infrastructure, identifying existing Utility Infrastructure locations and improving the reliability of such locations for Utility Conflict mitigation design development to improve the utility

quality level to minimize the need for field alterations and produce a more efficient, informed Infrastructure Design. Utilities location information compiled by Project Co shall be provided to all relevant Utility Companies and the City on a timely basis;

- 2.2.31 ongoing review, updating and providing to the City and Utility Companies all relevant information and data relating to the Utility Work and Utility Design and the Design of the Infrastructure, including performing additional investigations over and above the Disclosed Data as Project Co may consider appropriate in order to accurately understand and quantify Utility Conflicts and plan and implement Utility Conflict mitigations to the extent possible during the Design phase;
- 2.2.32 determining and developing, in consultation with the appropriate parties and consistent with the intent of the ULA Process, the lowest cost mitigation methodology; and
- 2.2.33 mitigation of adverse impacts to the Project and to the City of events, conditions or circumstances that form the basis of a Utility Work Relief Event, using reasonable commercial efforts to avoid adversely affecting, impairing or compromising the recourse rights or remedies of the City as against any Utility Company or any other Person.

### **2.3 Interpretation of Utility Best Practices**

If there is a Dispute between the Parties regarding the meaning or application of Utility Best Practices in or to any particular circumstance or situation, the determination of what it means shall be made having regard to the following factors, which shall be applied in the priority set out below. For clarity, if a factor having higher priority applies, the factors having lower priority shall not be applied in that circumstance.

- 2.3.1 the applicable requirements and standards of this Agreement,
- 2.3.2 the applicable terms, requirements and standards of the Utility Agreements, as the same may be qualified by City Support Statements;
- 2.3.3 the practices and standards applied by the City prior to Commercial Close in respect of the City Utility Work which was made known to, or was capable of being made known to, Project Co had it made reasonable enquiry of the City and the Utility Companies prior to Financial Submission Date;
- 2.3.4 the practices and standards of the City and its consultants and/or contractors in respect of other capital projects similar in size and scope in which Utility Work is required to be performed where the applicable Utility Company was also involved, based on the disclosed practices of the Utility Company in material filed in the Data Room prior to the Financial Submission Date;
- 2.3.5 the practices and standards of the City and its consultants and/or contractors in respect of other capital projects of similar size and scope to the Utility Work to be performed where the applicable Utility Company is also involved, based on Utility Infrastructure location investigations performed by Project Co during the Design phase in order to inform the Design and Construction;
- 2.3.6 the practices and standards customarily followed or applied by other consultants and/or contractors on other similar capital projects not involving the City when working with the applicable Utility Company in respect of similar work activities in similar situations; and

- 2.3.7 the practices and standards of other consultants, contractors and Utility Companies, or Pipeline Companies in respect of capital projects in Alberta or elsewhere in Canada in similar circumstances.

## 2.4 Utility Coordination Plan

Not more than 90 days after the Effective Date, Project Co shall prepare and submit an initial Utility Coordination Plan to the City (the “**Utility Coordination Plan**”) that looks forward for the next 270 days. Project Co shall further prepare and submit an updated Utility Coordination Plan not later than 180 days following the Effective Date, reflecting the full Term of the Project. One month prior to the date that Project Co assumes any obligations in respect of Assumed Incomplete City Utility Work, Project Co shall prepare and submit an updated Utility Coordination Plan, which shall address the Incomplete City Utility Work for which Project Co shall assume responsibility. Thereafter, annually or upon request of the City, Project Co shall update the current Utility Coordination Plan, highlighting any changes to the Plan from the last Plan submitted. The Utility Coordination Plan shall be consistent with the version included in the Proposal Extracts and shall:

- 2.4.1 describe all anticipated Utility Conflicts and their respective mitigations and the planned scheduling and sequencing of the Project Work, identifying any Utility Work deferred subsequent to Construction Completion;
- 2.4.2 describe the Project Co Utility Work coordination role and responsibilities, required for each phase of the Design and Construction, including
- (a) an organizational chart identifying, within Project Co and its Subcontractors, each individual position to which the tasks of internal Utility Coordination, Utility Design and construction are assigned; and
  - (b) identification of the methods to be used to ensure Utility Design and Design relating to Infrastructure are fully reviewed internally and externally pursuant to the Pre-ULA Process, highlighting the methods of collection and sharing of feedback; including a description of the information to be communicated, and frequency of communications; and a description of the proposed decision matrix to be used to resolve issues that arise, differentiating, where necessary, in relation to the phase of the work in which the issue would arise;
- 2.4.3 describe the external coordination processes, including listing of information to be shared with Utility Companies, frequency of distribution of information, planned design circulation processing times for reviewing, commenting on, summarizing and exchanging Project Co collated information with the Utility Companies and the City for normal-course coordination purposes, pre-ULA design submissions and ULA submissions, including a description of the process by which compliance with Applicable Law, Utility Best Practices, this Agreement and the requirements of any Utility Agreements and the ULA Process (Appendix 28-2G [*Utility Line Assignment (ULA) Data and Processes*]) will be achieved;
- 2.4.4 include a narrative describing the existing Utility Infrastructure survey, plans for the acquisition of additional surveys during each phase of the Utility Works, as well as as-built survey information to be gathered for Utility Work; indicate for each survey item whether the Utility Company or Project Co will be responsible for acquisition of that survey information and whether that information will be shared;
- 2.4.5 describe in detail the Utility Work risks that are known or expected to be encountered by Project Co in the successful mitigation of Utility Conflicts (whether known or unknown), and for each risk describe the planned mitigation measures for that risk;

- 2.4.6 describe the Utility Work protection measures to be employed for each temporary or permanent crossing including, but not limited to, commenting upon advance notification, agreement acquisition and Utility Company participation in inspections; in particular, identify whether these measures have been reviewed and confirmed by the respective Utility Company or are to be determined solely by Project Co;
- 2.4.7 describe how Utility Companies' access to their Utility Infrastructure will be maintained, including details of any risks relating to such access and the associated mitigation strategies to be employed to mitigate those risks;
- 2.4.8 describe for each individual Utility Conflict, the planned pre-design field investigation to be performed by Project Co or by the relevant Utility Company with reference to the target quality level of information to be obtained by way of an aerial and subsurface utility engineering investigation;
- 2.4.9 describe the approach for identifying and maintaining Existing Utility Service Connections and modifying and reinstating such connections into permanent locations in order to maintain existing Utility services to properties, residences, businesses and Utility customers that are impacted by the Project Work;
- 2.4.10 include a mark-up of the reference design Utility Infrastructure drawings included in the Disclosed Data, identifying any additional contemplated variances, Utility Conflicts or planned Utility Conflict mitigations in the Project Co Utility Work;
- 2.4.11 include for Design and Construction purposes, a comprehensive list of horizontal and vertical clearance values (preferred separation value and absolute minimum separation value where possible) for Utility Infrastructure forming part of Project Co Utility Work versus:
- (a) other Public Utility Infrastructure to be installed or existing;
  - (b) other Pipeline Infrastructure to be installed or existing; and
  - (c) Non-Utility Infrastructure (including but not limited to trees, catenary poles, catch basins, vaults, foundations and power cubicles) to be installed or existing;
- 2.4.12 include any estimates or agreed confirmations or indications of schedule or cost commitments made prior to Financial Close, and, where applicable, the Construction Period, by a Utility Company in respect of its deliverables for Utility Work; include as appendices copies of written confirmations, assurances, or forecasts from the Utility Companies attributed in general terms or, where appropriate, specific to a particular item;
- 2.4.13 describe the general sequencing to be followed for Project Work by area and time; include a description of priority areas or individual priority Utility Conflict items for initial Utility Conflict mitigation efforts, and describe why they are a priority; describe the Project Work that must be performed to lessen or eliminate the potential adverse impact of the Utility Conflicts;
- 2.4.14 include in the full term Utility Coordination Plan a description of how timelines or work requirements have changed since the initial Utility Coordination Plan and the Baseline Construction Schedule; and
- 2.4.15 to the extent relevant and necessary, include Project Co's assumptions regarding Utility Company compliance with the terms of specific Utility Agreements and the expected

enforcement of these terms by the City, together with confirmation of the expected corresponding support activities from the City as set out in a City Support Statement.

## **2.5 Public Utilities Interface Procedures**

### **2.5.1 Public Utilities Interface Procedures**

Project Co shall use commercially reasonable efforts, and apply Utility Best Practices in endeavouring, to confirm in writing the Utility interface procedures with each Public Utility Company as soon as reasonably and practically possible, having regard to the Utility Coordination Plan and Construction Schedule and the Public Utility Company in question. The intended purpose of confirming the procedures in writing is to supplement the Existing Utility Agreements with Project-specific procedures that create a clear mutual understanding of Project Co and Public Utility Company interface processes, procedures, notification and reaction durations, application procedures, communication methodologies, to successfully and suitably communicate together for coordinated planning, scheduling, completion and commissioning of Utility Work. For certainty, whether or not the Utility interface procedures are binding on Project Co and/or Utility Company, Utility interface procedures shall not amend, or be deemed to amend, applicable Existing Utility Agreements.

### **2.5.2 Public Utilities Interface Process**

Project Co shall, in consultation with the applicable Public Utility Company, determine for each Public Utility Company work package or program whether a Utility interface procedure would be helpful in managing and mitigating the risk of potential delays or misunderstood work requirements or processes and, in connection therewith, shall:

- (a) deliver a copy of compiled interface procedures to the City and periodically confer with the City Representative, or designate, regarding the proposed key terms and principles of the Utility interface procedures;
- (b) except as may be clarified or confirmed by the City in an applicable City Support Statement, ensure that all Utility interface procedures are consistent with, do not conflict with, and are supplemental to, the Existing Utility Agreements;
- (c) where agreed by the respective Public Utility Company, update and modify the Utility interface procedures to respond to changing circumstances or conditions relating to the Utility Work and the other Project Work; and
- (d) duly perform and carry out the obligations of Project Co pursuant to any Utility interface procedures.

### **2.5.3 Public Utility Interface Content**

Each Public Utilities interface procedure should, to the extent reasonably possible and applicable, and having regard to the scope and nature of the Utility Work in question, describe some or all of:

- (a) the communications procedures to be followed for successful communication of information regarding the Utility Work;
- (b) the advance coordination procedures to be mutually established:
  - (i) for identification of new Utility Conflicts and the minimum lead time required by the applicable Public Utility Company to initiate a response;

- (ii) to quantify the minimum information requirements for successful development of a Utility Conflict mitigation;
  - (iii) to determine where Utility Work requires connection to any existing Public Utility Infrastructure; and
  - (iv) to implement measures required to accommodate any Project Work impacts on service recipients and Public Utility Companies;
- (c) the requirements for sharing of Utility Work base plans, drawings, sketches, profiles, specifications, and other documents required to facilitate review of proposed Utility Work and incorporation of revisions from review;
  - (d) the procedures, timing and coordination requirements for Public Utility Company pre-notification, monitoring, inspections and sign-offs;
  - (e) the requirements for preparation of final Construction plans, profiles, specifications, and other documents that must be reviewed and accepted by the Public Utility Company;
  - (f) protocols and expected or targeted timing, including key milestones for the performance of all Utility Work to be performed by the Public Utility Company;
  - (g) requirements for advance notification of the applicable Public Utility Company prior to undertaking Utility Work or other Project Work in proximity to its Utility Infrastructure or property to enable Public Utility Company supervisory staff to perform the required inspections and pre-arrange and coordinate any required adjustment to the Public Utility Infrastructure in a manner that is satisfactory to all stakeholders including, where applicable, compensation payable by Project Co to the Public Utility Company for its work;
  - (h) handover procedures for all Public Utility Infrastructure;
  - (i) advance notification of Construction phasing to the relevant Public Utility Company, Governmental Authorities and other interested parties;
  - (j) access rights for the Public Utility Company to access the Lands for the purposes of the performance of the Utility Work, including the inspection of Project Co Utility Work; and
  - (k) notification and request for assistance in clarifying any unknown Utilities that are discovered.

#### 2.5.4 **Pipeline Agreements**

The City shall be responsible to arrange, negotiate and enter into contractually binding agreements or amendments to existing agreements with each Pipeline Company in respect of the Pipeline Work (each a “**Pipeline Agreement**”), in each case, within 12 months of the date that Project Co delivers the Final Design for the Project Work associated with the Pipeline Infrastructure, as well as any additional information that may be required by each Pipeline Company associated with the Final Design, including equipment loading, temporary load mitigation, support designs, stray current mitigation, geotechnical information and vibration studies. Project Co shall, in a timely manner, cooperate with and assist the City, at the City’s request, in negotiating and finalizing the proposed Pipeline Agreements, including for purposes of developing schedules for the Pipeline Work.



## **2.6 Public Utility Agreements**

Project Co shall duly perform and carry out on behalf of the City all of the City's obligations under the Public Utility Agreements in respect of the Project Co Utility Work, except that Project Co shall not have any obligation to:

- 2.6.1 collect on behalf of the City any amount, including any cost contributions, to be paid by a person to the City under a Public Utility Agreement (and all such amounts will be payable to and for the credit of the City and not Project Co);
- 2.6.2 remit on behalf of the City any amount, including any cost contributions, to be paid by the City under a Public Utility Agreement; or
- 2.6.3 perform, follow, or abide by those specific sections or provisions of a particular Public Utility Agreement which the City confirms pursuant to a City Support Statement are not relevant or applicable to particular Project Co Utility Work activities.

## **2.7 Utility Work Reporting**

Not less than monthly, Project Co shall prepare and submit a report on the development of and compliance by the Utility Companies and Project Co with the procedures, terms, and conditions of the Utility interface procedures and Utility Agreements as they relate to the Project, Utility Work, or Project Work for the period since the previous report, including:

- 2.7.1 an overview status report of all Utility Work performed during that period;
- 2.7.2 a summary overview of records being maintained and key activities occurring in relation to the oversight and administration of the Utility interface procedures and Utility Agreements;
- 2.7.3 a record of the steps taken by Project Co to investigate, assess, mitigate and manage all Project Co Utility Work, including identified issues or adverse impacts associated with the Utility Work that could give rise to or have given rise to a Relief Event, including a Utility Work Relief Event;
- 2.7.4 a record of the steps taken by Project Co to coordinate the Project Work, including the Project Co Utility Work, with other Utility Work, including City Utility Work;
- 2.7.5 Project Co Utility Work cost variances from the Utility Coordination Plan;
- 2.7.6 relevant City Support Statement listings, if any;
- 2.7.7 relevant Design variance log, if any;
- 2.7.8 description of newly identified Utility Conflicts and/or Future Utility Work;
- 2.7.9 an updated Construction Schedule summarizing the status of all Project Co Utility Work completed and planned for completion; and
- 2.7.10 other material developments relating to Utility Work matters,

(each, a "Utility Report")

The scope and level of detail of each Utility Report shall be commensurate with the scope and complexity of new developments to be covered in each Utility Report, having regard to timing and scheduling considerations and the stages of the Utility Work in relation to the Utility Coordination Plan.

## **2.8 City Support Statements**

### **2.8.1 General**

The Parties acknowledge that, whereas the Utility Agreements are of general application to a broad range of different projects and that certain terms of certain Utility Agreements may not necessarily be relevant to or capable of being applied to certain aspects or components of the Project Co Utility Work, Project Co may, in accordance with the protocol set out in this Section 2.8 [*City Support Statements*] of this Schedule, obtain clarification from the City from time to time regarding the need or appropriateness of Project Co applying and adhering to specific terms of applicable Utility Agreements for certain specific work activities.

### **2.8.2 Preparation of Statements**

Project Co may provide the City with a statement of the specific steps, actions, or activities that Project Co reasonably requests the City to perform or undertake in support of Project Co fulfilling its Project Co Utility Work obligations, including any dates by which the steps, actions or activities must be performed (each, a “**City Support Statement**”). The steps, actions, or activities described in a City Support Statement must be consistent with the scope of City responsibilities described in Section 3.1 [*City Responsibilities*] of this Schedule. In the City Support Statement, Project Co shall detail, by relevant date, the specific notifications, steps, actions or activities it has already undertaken prior to preparation of the statement.

To the extent Project Co may ascertain or be aware that it may be a relevant factor or consideration, Project Co may include in a City Support Statement a request that the City confirm and clarify: (i) the relevancy and application or non-application of certain terms of certain Utility Agreements to specific Utility Work activities; or (ii) possible recourse rights or remedies the City may have in the circumstances of a Relief Event that may have to be preserved or relied upon in some manner.

Concurrently with each Utility Report, Project Co shall provide the City with a listing of City Support Statement requests made of the City, including a brief description of the item as well as an indication of the status of the request.

### **2.8.3 City Review**

Upon receipt of a City Support Statement request, the City shall consider the steps, actions or activities already completed by Project Co and those requested of the City by Project Co and will either:

- (a) accept the City Support Statement; or
- (b) reject the City Support Statement, in whole or in part and provide a substitute list of steps, actions or activities or a substitute schedule for performance of the steps, actions or activities, which are intended to achieve the equivalent outcome in the circumstances.

### **2.8.4 City Acceptance**

Where the City accepts a City Support Statement or provides a substitute list of steps, actions or activities which Project Co acknowledges as appropriate (which list will become the City Support Statement), the City will use reasonable commercial efforts to carry out the specified steps, actions or activities that are applicable to the City within the applicable timeframe set out in the City Support Statement.

### 2.8.5 **Disputes**

If the City rejects a City Support Statement and Project Co does not accept the City's proposed substituted steps or schedule: (i) either Party may treat this as a Dispute and refer the matter to the Dispute Resolution Procedure; (ii) Project Co may still request the City to proceed with the substituted steps or schedule and such request will be without prejudice to Project Co's rights in the Dispute; and (iii) the City's performance of these proposed substituted steps or schedule shall be without prejudice to its rights in the Dispute.

### 2.8.6 **Project Co Constraints**



## 2.9 **Additional Project Co Responsibilities**

Without limiting, and in addition to, the other provisions of this Schedule, Project Co shall use reasonable commercial efforts consistent with Utility Best Practices and subject to the terms of this Agreement to:

- 2.9.1 carry out all necessary inquiries and investigations of the City and of the Utility Companies to ascertain Utility Company standards, requirements, policies and guidelines and any other special requirements, procedures, limitations, or constraints which may apply to the applicable Project Co Utility Work;
- 2.9.2 support the City in respect of any Incomplete City Utility Work until such Utility Work becomes Assumed Incomplete Utility Work pursuant to Section 2.12 [*Project Co Assumption of Incomplete City Utility Work*] of this Schedule;
- 2.9.3 store, maintain, update and share monthly separate CAD base files of Utility Work that graphically represent:
  - (a) concept Utility mitigation planned alignment designs;
  - (b) preliminary, detailed, and for Construction Utility mitigation designs;
  - (c) line work and symbology compliant with the relevant quality level of the information presented; and
  - (d) as-built and existing cadastral base file, correctly identifying the current operational status of the Utility Infrastructure as known to Project Co;
- 2.9.4 store, maintain, update and provide on a quarterly basis to the City and Utility Companies the graphic inventory of all Infrastructure in, on, under, or adjacent to the Lands constructed by or in possession of Project Co or otherwise known to Project Co as is able to be imposed on the associated cadastral base maps in the GeoEdmonton system, in a format compatible with the applicable Utility Company software and with the City cadastral drawing standards;

- 2.9.5 coordinate with, and provide access to, Utility Companies to enable them to access their Utility Infrastructure on, in, under or adjacent to the Lands for the purposes of continued operations, installations, maintenance, repairs, or other purposes throughout the Construction Period;
- 2.9.6 permit Utility Company inspectors to access the Utility Infrastructure on, in, under or adjacent to the Lands as requested by the Utility Company, acting reasonably, including where the performance of the Project Work, including the Project Co Utility Work, necessitates an inspection;
- 2.9.7 permit Utility Companies to monitor Project Work in proximity to their Utility Infrastructure as such Utility Companies may deem necessary;
- 2.9.8 pay any applicable fees or costs to the Utility Company for any inspection or monitoring of Project Work by a Utility Company;
- 2.9.9 obtain all necessary consents, approvals, permits and authorizations from the appropriate Utility Company(ies) prior to performing any Project Co Utility Work or having any Project Co Utility Work performed;
- 2.9.10 comply with City processes for accessing municipal rights of way, as described in Appendix 28-2G [*Utility Line Assignment (ULA) Data and Processes*];
- 2.9.11 comply with legal processes for accessing private lands if such access is required;
- 2.9.12 compile all drawings from any Utility Company and other available information relevant to the applicable Project Co Utility Work, including any additional information necessary for Utility Design, Design or Construction and update the as-built utility drawings no later than two months following completion of relevant Project Co Utility Work so as to maintain up to date as-built Utility drawings; and
- 2.9.13 perform the Project Co Utility Work in compliance with this Agreement, including Utility Best Practices, the specific Utility Work requirements set out in Section 6 [*Utility Work Requirements*] of this Schedule.
- 2.9.14 develop the following design drawing types:
  - (a) Pre-ULA and ULA drawings. To be developed for conflict mitigation pre-ULA and ULA design circulations and submissions. See Appendix 28-2G [*Utility Line Assignment (ULA) Data and Processes*] section A.1.1.D for drawing requirements;
  - (b) Design submission packages. Utility drawings for inclusion in design submission packages along with roadways and drainage shall contain details in compliance with City of Edmonton detailed design U type drawings;
  - (c) Utility and project coordination drawings. Similar to existing and proposed utility drawing sets supplied in the Data Room, Project Co shall develop and share consolidated utility drawings based upon utility base files. These shall include a separate existing Utility Infrastructure drawing set, a concept drawing set containing Project Co's concept design mitigation plans, and a detailed design drawing set containing a composite of in-process designs as well as an as-built drawing set; and

- (d) Utility and project coordination drawings. Similar to existing and proposed utility drawing sets supplied in the Data Room, Project Co shall develop and share consolidated utility drawings based upon utility base files. These shall include a separate existing Utility Infrastructure drawing set, a concept drawing set containing Project Co's concept design mitigation plans, and a detailed design drawing set containing a composite of in-process designs as well as an as-built drawing set; and
- (e) Utility and Pipeline Design drawings. These shall contain sufficient detail to confirm known separation standards from the Infrastructure, Utility Infrastructure and other conflicting items (landscaping, etc.).

## 2.10 Future Utility Work

Project Co shall not be responsible for the performance of Future Utility Work, but shall use all reasonable efforts to mitigate the impact of any Future Utility Work in accordance with Section 12.7 [*General Duty of Project Co to Mitigate*] of this Agreement as follows:

- (a) review and respond to Pre-ULA or ULA design submissions to identify and eliminate any contemplated Utility Conflicts at the Design development stage,
- (b) where Project Co has the active OSCAM permit for the planned Construction area, facilitate, to the extent possible, access for construction of the Future Utility Work, and
- (c) during the Construction Period, monitor the Future Utility Work construction activities with a bearing upon the Project Works to identify and mitigate any negative impacts;
- (d) provide detailed reports to the City in respect of Future Utility Work activities consistent with the requirements of Section 2.6 [*Utility Work Reporting*] of this Schedule.

## 2.11 Changes to City Utility Work

Utility Work described in Appendix 28-2A [*City Utility Work Completed Prior To Effective Date*] and Appendix 28-2B [*Incomplete City Utility Work*], represents work undertaken by Utility Companies to relocate existing Utility Infrastructure to mitigate Utility Conflicts identified through the Preliminary Reference Design. Unless accepted as a Permitted Relocation, any subsequent relocation by Project Co of City Utility Work and Assumed Incomplete City Utility Work will be at the sole risk and cost of Project Co as the Utility Conflict has been deemed mitigated for the Project under the applicable Public Utility Agreement.

## 2.12 Project Co Assumption of Incomplete City Utility Work

Project Co shall assume and be responsible to complete, in accordance with Utility Best Practices and this Schedule, any Incomplete City Utility Work remaining uncompleted as of six months following the Effective Date ("**Assumed Incomplete City Utility Work**"). The Parties acknowledge that the six month period between the Effective Date and the transfer of such unfinished Incomplete City Utility Work to Project Co is intended to serve as a period for transition from City management to Project Co management. Subject to Section 2.11 [*Changes to City Utility Work*], the relevant Utility Company will complete the Assumed Incomplete City Utility Work and any compensation due to the Utility Company under or pursuant to the Existing Utility Agreements for completion of the initial mitigation remains the City's responsibility.

## **2.13 City Participation in Meetings**

Project Co shall provide reasonable notice of and permit the City to attend all meetings with Utility Companies. If Project Co is seeking a specific approval or agreement from a Utility Company and requires the City to acknowledge, approve, consent or agree to the proposed action or decision Project Co shall confirm the support required of the City in the specific City Support Statement.

## **2.14 Coordination with Pipeline Companies**

- 2.14.1 Project Co acknowledges that Design and Construction of all Pipeline Infrastructure, including confirmation of the required work specifications and standards, in particular CSA Z662 Oil and Gas Pipeline Standards, shall require extensive coordination between Project Co and the Pipeline Companies.
- 2.14.2 Project Co shall be required to schedule and allow for all work and undertakings of the Pipeline Companies in accordance with the terms of the applicable Pipeline Agreements.
- 2.14.3 Project Co shall be responsible for providing access and for making all necessary arrangements to enable inspections of all Pipeline Infrastructure and to retain the services of Pipeline Company personnel to monitor Construction activities as required by the Pipeline Companies pursuant to Pipeline Agreements or otherwise based on Project Co's needs and Project Co shall be responsible for all costs associated therewith.
- 2.14.4 Subject to Section 11 [*Relief Events*] of the Agreement, as between City and Project Co, Project Co shall be solely responsible for all costs and scheduling risk in respect of all Pipeline Work activities described in this Section 2.14 [*Coordination with Pipeline Companies*].
- 2.14.5 Project Co shall be responsible for development of crossing designs and any and all documentation relating to Pipeline Agreement applications, specifically tailored for provision to each Pipeline Company requirements, whether temporary or permanent and for provision of these in a timely fashion to the City for Pipeline Agreement applications.
- 2.14.6 Project Co shall perform the required investigations and develop the necessary data, reports, and documentation necessary to facilitate the City in acquisition of Pipeline Agreement applications for any temporary or permanent works relating to the Gerry Wright OMF East Utility ROW.
- 2.14.7 Project Co shall lead the shared application of stray current mitigation designs for individual Pipeline Company mitigations.

## **3. CITY RESPONSIBILITIES**

### **3.1 City Responsibilities**

The City will assume the following responsibilities, tasks, and risks related to the completion or advancement of the Utility Work and, except as expressly set out in this Agreement, the City will have no other responsibilities, tasks, or risks related to the Utility Work:

- 3.1.1 be responsible for and bear all risks and costs for organizing, designing, coordinating, constructing, overseeing, supporting, performing and completing all City Utility Work, including Incomplete City Utility Work up to 6 months following Financial Close;

- 3.1.2 be responsible for reimbursing or otherwise compensating Utility Companies in accordance with the relevant Franchise Agreement or Municipal Access Agreement for all City Utility Work, Incomplete City Utility Work, Assumed Incomplete City Utility Work, Utility Infrastructure Left-In-Place and Deferred Utility Work except in respect of costs and/or expenses incurred by Utility Companies for any Utility Work or other matters described in clauses (b), (c), (d), (f), (g), (h) and (i) of the definition of “Ineligible Utilities Costs”;
- 3.1.3 be responsible for reimbursing or otherwise compensating Pipeline Companies in accordance with the relevant Pipeline Agreement for all Pipeline Work, including the cost of completing pipeline mitigation evaluations and engineering for such construction activities as are determined to be necessary for the permanent crossings of the Gerry Wright OMF West Utility ROW and the Transportation Utility Corridor, but excluding costs for which Project Co is responsible pursuant to Section 2.14 of this Schedule;
- 3.1.4 upon request from Project Co, providing Project Co with available relevant information and reasonable guidance, consultation, feedback and support in relation to the timely and coordinated completion of the Utility Work;
- 3.1.5 upon request by Project Co, communicating with Utility Company representatives to assist Project Co in resolving any issues with the Utility Agreements or Utility interface procedures which Project Co has not been able to resolve to its reasonable satisfaction, despite the exercise of Utility Best Practices;
- 3.1.6 updating Project Co when there is a change to a Utility Agreement or if the City is made aware of any changes to Utility Company standards, requirements, policies and guidelines that may be relevant to the Project Co Utility Work;
- 3.1.7 undertaking reasonable administrative efforts to diligently enforce Utility Agreements against Utility Companies, including sending notice letters to Utility Company representatives from appropriate levels of seniority of City officials or representatives, attending follow-up phone calls or meetings or involving senior City officials or representatives, provided that the City shall have no obligation to commence legal proceedings;
- 3.1.8 providing Project Co with information within the City’s possession related to the Utility Agreements in a timely manner and cooperating with Project Co in relation to the Utility Agreements and the Utility interface procedures in accordance with an accepted City Support Statement;
- 3.1.9 when requested through an accepted City Support Statement, assisting Project Co in communicating and negotiating with Utility Companies with respect to the Utility Agreements, the Utility Interface procedures, and the Project Co Utility Work;
- 3.1.10 acting upon any requests contained in an accepted City Support Statement or any substitute steps, actions or activities described in Section 2.8.3(b) of this Schedule or in accordance with the determination or directions resulting from a related Dispute Resolution Procedure;
- 3.1.11 where there is an accepted City Support Statement to do so, providing Project Co with online access to relevant available spatially-related digital products, including overlays of schools and hospitals, parks, facilities, and registered survey plan indexes; and
- 3.1.12 providing guidance to Project Co regarding the relevancy or application of a Utility Agreement to particular work activities or circumstances.

### 3.2 Unfinished City Utility Work

Notwithstanding anything to the contrary in this Agreement, the City shall be responsible for the continued coordination and completion of any Utility Work identified in Appendix 28-2A [*City Utility Work Completed Prior To Effective Date*] which is not fully completed by the Effective Date.

## 4. UTILITY COSTS

- 4.1.1 Subject to the express provisions of this Agreement (including, without limitation, in relation to Relief Events), Project Co shall be responsible for all costs and expenses incurred by Project Co or any Project Co Person in connection with or relating to all Utility Work (whether such costs and expenses are incurred pursuant to a Utility Agreement or otherwise). Without limiting the generality of the foregoing, Project Co shall be responsible for all Initial Eligible Utilities Costs and Project Co's share of Excess Eligible Utilities Costs.
- 4.1.2 Subject to Project Co's obligation to fund the Initial Eligible Utilities Costs pursuant to Section 4.1.1, in the event that the amount (excluding applicable GST) of Eligible Utilities Costs exceeds the Initial Eligible Utilities Costs, determined on an aggregate basis across all Utilities (the "**Excess Eligible Utilities Costs**"), Project Co and the City shall each be responsible for 50% of such Excess Eligible Utilities Costs. When Excess Eligible Utilities Costs exceed the Maximum Excess Eligible Utilities Costs Amount, the City shall be solely responsible for 100% of all Excess Eligible Utilities Costs in excess of such Maximum Excess Eligible Utilities Costs Amount.
- 4.1.3 Project Co shall provide detailed monthly reports ("**Eligible Utilities Costs Reports**") to the City's Representative that include the following information itemized for each Utility Company:
- (a) itemized and aggregate Eligible Utilities Costs committed to date for each Utility Company and the aggregate of such Eligible Utilities Costs for all Utility Companies (including copies of all vendor invoices provided up to and including the date of the Eligible Utilities Costs Reports which have not previously been delivered to the City);
  - (b) itemized and aggregate Eligible Utilities Costs spent to date for all Utility Companies and the aggregate of such Eligible Utilities Costs for all Utility Companies;
  - (c) the projected Eligible Utilities Costs for each remaining Utility Company and the aggregate of such projected Eligible Utilities Costs for all Utility Companies.
- 4.1.4 Project Co may, at any time, request (an "**Eligible Utilities Costs Ruling Request**") from the City prior or in relation to an Eligible Utilities Costs Report a determination or ruling from the City (an "**Eligible Utilities Costs Ruling**") as to whether specific types of costs and expenses incurred or which may be incurred by Project Co in relation to Utility Work constitute Eligible Utilities Costs. Project Co shall provide all relevant information pertaining to such costs and expenses, including as the City may request.
- 4.1.5 The City shall, within 10 Business Days of receipt of an Eligible Utilities Costs Ruling Request, advise Project Co, in writing, whether or not the costs set out in such Eligible Utilities Costs Ruling Request are approved as Eligible Utilities Costs or whether the City requires additional information upon which to evaluate the request. The City shall be permitted to withhold its approval if the City determines that the Eligible Utilities Costs Ruling Request does not contain the information that the City requires, acting reasonably,



to discharge its obligations under this Section 4 or contains costs that are not Eligible Utilities Costs. If the City withholds its approval pursuant to this Section 4.1.4 and subsequently receives the information that the City requires, acting reasonably, to discharge its obligations under this Section 4.1.4, it shall, within 10 Business Days of its receipt of such information, issue to Project Co, in writing, the City's approval or rejection of the Eligible Utilities Costs Ruling Request.

- 4.1.6 The City shall, within 10 Business Days of receipt of an Eligible Utilities Costs Report, advise Project Co, in writing, whether or not the Eligible Utilities Costs set out in such Eligible Utilities Costs Report are approved. The City shall be permitted to withhold its approval if the City determines that the Eligible Utilities Costs Report does not contain the information that the City requires, acting reasonably, to discharge its obligations under this Section 4 or contains costs that are not Eligible Utilities Costs. If the City withholds its approval pursuant to this Section 4.1.5 and subsequently receives the information that the City requires, acting reasonably, to discharge its obligations under this Section 4, it shall, within 10 Business Days of its receipt of such information, provide to Project Co, in writing, the City's approval of the undisputed Eligible Utilities Costs set out in the aforementioned Eligible Utilities Costs Report.
- 4.1.7 In addition to the Eligible Utilities Costs Report described in Section 4.1.3, Project Co shall, in respect of Excess Eligible Utilities Costs and on a monthly basis, provide to the City Representative a request for payment (each, a "Request for Excess Eligible Utilities Costs Payment") that includes the following information:
- (a) details of all vendor or Project Co Party invoices for Excess Eligible Utilities Costs that are due for payment that month, including copies of all such invoices and relevant supporting documentation; and
  - (b) any discounts, rebates, refunds, chargebacks, credits, price adjustments and other allowances available to Project Co in connection with the Excess Eligible Utilities Costs.
- 4.1.8 The City shall, within 10 Business Days of receipt of a Request for Excess Eligible Utilities Costs Payment, advise Project Co, in writing, whether or not payment of the City's share of the Excess Eligible Utilities Costs set out in such Request for Excess Eligible Utilities Costs Payment is approved. The City shall be permitted to withhold its approval if the City determines that the Request for Excess Eligible Utilities Costs Payment does not contain the information that the City requires, acting reasonably, to discharge its obligations under this Section 4 or in respect of any amounts claimed that are not Excess Eligible Utilities Costs. If the City withholds its approval pursuant to this Section 4.1.7 and subsequently receives the information that the City requires, acting reasonably, to discharge its obligations under this Section 4, it shall, within 10 Business Days of its receipt of such information, provide to Project Co, in writing, the City's approval of the undisputed Excess Eligible Utilities Costs set out in the aforementioned Request for Excess Eligible Utilities Costs Payment.
- 4.1.9 The eligibility of any amounts as Eligible Utilities Costs shall be verified by the Independent Certifier. Any Dispute between the City and Project Co as to such eligibility (including pursuant to an Eligible Utilities Costs Ruling Request) will be referred for determination to the Dispute Resolution Procedure.
- 4.1.10 Within 30 days of approval by the City of the undisputed Excess Eligible Utilities Costs set out in a Request for Excess Eligible Utilities Costs Payment, the City shall pay its share of such undisputed Excess Eligible Utilities Costs, plus applicable GST, to Project Co.

## 5. UTILITY COMPANY RESPONSIBILITIES

- 5.1.1 The scope and required standards of work activities or tasks to be performed or undertaken by the Utility Companies in respect of or in relation to Utility Work shall be as expressly set out in the applicable Existing Utility Agreements, Utility Interface procedures and Pipeline Agreements, as the same may be modified by accepted City Support Statements.
- 5.1.2 Where Project Co is of the opinion that a Utility Company has an obligation or responsibility in respect of any portion of the Utility Work that deviates from the express provisions of the Existing Utility Agreements, Utility Interface procedures and Pipeline Agreements, Project Co shall obtain the City's acknowledgement of these supplemental or different requirements through an accepted City Support Statement. Any work activity, task or other responsibility in relation to Project Co Utility Work that is not expressly included as part of the City Utility Work, an accepted City Support Statement (or imposed through the Dispute Resolution Procedure) or a Utility Company responsibility, as described above, shall be the obligation of Project Co.
- 5.1.3 To the extent Project Co may ascertain or be aware that it may be a relevant factor or consideration in the performance of the Project Co Utility Work, Project Co may include in a City Support Statement a request that the City confirm and clarify the relevance and application or non-application of certain terms of certain Existing Utility Agreements, Utility Interface procedures or Pipeline Agreements to specific Project Co Utility Work activities.

## 6. UTILITY WORK REQUIREMENTS

### 6.1 General

Consistent with Utility Best Practices, applicable Utility Interface procedures, the relevant Utility Coordination Plan, any relevant accepted City Support Statements, and the applicable terms of any relevant Utility Agreement:

- 6.1.1 *Coordination and Completion:* Project Co shall, subject to the terms of this Agreement, including this Schedule, be responsible for, and bear all risks and costs of, organizing, designing, coordinating, constructing, overseeing, supporting, performing, and completing, or overseeing the completion of, all Project Co Utility Work. Project Co shall coordinate the Project Work with all Project Co Utility Work and any other work related to Utility Infrastructure, whether undertaken by, or on behalf of, the City, Project Co or a Utility Company during the Project Period.
- 6.1.2 *Advance Confirmations:* Project Co shall coordinate and confirm in advance with the applicable Utility Company any special requirements for Project Work undertaken around Utility Infrastructure and shall comply with all such special requirements in the performance of the Project Work.
- 6.1.3 *Designs, Drawings and Construction Programs:* Project Co shall be responsible for the Design and Construction of all Project Co Utility Work (including all Utility Design), whether performed by Project Co or a Utility Company.
- 6.1.4 *Codes & Standards:* Project Co shall comply with this Agreement, including compliance with Applicable Law.
- 6.1.5 *Approvals and Rights of Access:* Project Co shall be responsible for investigating and obtaining all necessary approvals or authorizations associated with the Project Co Utility Work, including those set out in the applicable Utility interface procedures, and Project Co

shall comply with City processes for accessing municipal rights of way, as described in Section 3 [Drawing Standards for ULA Permit Submission] of Appendix 28-2G [Utility Line Assignment (ULA) Data and Processes] (the “**ULA Process**”) and for obtaining consent of Governmental Authorities for work to be performed within the TUC.

- 6.1.6 *Utility Conflict Mitigation Design and Construction:* Project Co shall proactively investigate and confirm probable Utility Conflicts, design appropriate adjustments to the Design that will eliminate the Utility Conflicts or communicate a concept design for mitigation with the respective Utility Company and shall coordinate, monitor and oversee the management and mitigation of Utility Conflicts and variances in relation to Project Co Utility Work.
- 6.1.7 *Third Party Notifications:* Project Co shall notify the applicable Utility Companies, Governmental Authorities and other affected Persons prior to undertaking investigations or work in proximity to their respective Utility Infrastructure or property.
- 6.1.8 *Pipeline Agreements:* Project Co shall not commence Pipeline Work or other Project Co Utility Work in proximity of Pipeline Infrastructure except pursuant to and in accordance with an executed Pipeline Agreement.

## **6.2 Utility Conflicts**

Project Co acknowledges that, prior to the Technical Submission Date, written notifications were provided by the City to Utility Companies, identifying areas of known potential conflict between the existing Utility Infrastructure and the Infrastructure. A list of known conflicts is included in the Disclosed Data. Such known conflicts, along with any new conflicts that Project Co may identify during the course of the Project Work, are referred to in this Schedule and this Agreement as “**Utility Conflicts**”.

## **6.3 Background to Deferred Utility Work**

Deferred Utility Work represents Utility Work that is required to be undertaken pursuant to Existing Utility Agreements (including Franchise Agreements and/or Rights of Way Consent and Access Agreements) to mitigate Utility Conflicts. In consultation with relevant Utility Companies, such Utility Work has been deferred for various reasons including as follows:

- 6.3.1 Utility Conflict mitigations have been identified; however the construction of such mitigations has been deferred to facilitate efficient construction staging of the Utility Work with Construction of the Infrastructure. Project Co shall be responsible to coordinate the construction of the mitigation measures with the applicable Utility Company; or
- 6.3.2 design of the mitigation measures have been deferred until the Design of the Infrastructure is sufficiently complete to determine the necessary mitigation measures. Project Co shall be responsible to coordinate the Design and Construction of the necessary mitigation measures with the applicable Utility Companies.

## **6.4 Utility Infrastructure Left in Place**

The Utility Infrastructure listed in Table 6.4 [Utility Infrastructure Left In Place] of this Schedule has been determined by the City to have minimal impact on the Infrastructure and is likely able to be accommodated in the Design without the need for it to be modified. Therefore, such Utility Infrastructure will be allowed to remain in place without mitigation. If Project Co determines any of the Utility Infrastructure Left in Place constitutes or creates a Utility Conflict that accommodation by the Design or Construction of the Infrastructure cannot mitigate, Project Co shall be responsible for coordination, management and implementation of the mitigation and all costs related thereto where not accepted as a Permitted Relocation. Where accepted as a Permitted Relocation, the Public Utility Company will perform the

mitigation in accordance with the applicable Franchise Agreement or Rights of Way Consent and Access Agreement, with Project Co responsible for coordination, management and facilitation of the mitigation.

**Table 6.4 – Utility Infrastructure Left In Place**

<b>Description</b>	<b>Utility Company</b>	<b>Location</b>
TELUS vaults V-8, V-8B, V-9, V-9B, V-901, V900, V-10, V-10B, V-11, V-11B, V-12, V-12B (vault roof lowering if required, to extent possible without duct bank reconstruction)	Telus (including other telecoms within)	102 Avenue between 102 and 108 Street
EPCOR Vault MN104 (adjust roof elevation if necessary)	EPCOR D&T	102 Avenue; west of 102 Street
Telecom services south of V010	TELUS/Bell	South side of 102 Avenue in the alley between 104 and 105 Street
V-2571A (vault roof lowering if required)	Telus (including other telecoms within; Bell, Shaw, Rogers)	102 Avenue and 104 Street (NW corner)
Telecom vault south of V900 new EPCOR power duct bank installed beneath (Project co to work with Telus to retain vault but accommodate for integration into the walk)	TELUS	South side of 102 Avenue, west side of 104 Street, attached to V-900
Bell YMCA service connection (possible abandonment pending YMCA decision; possible retention for future servicing)	Bell	Alley west of 104 Street
Bell vault	Bell	Alley west of 103 Street - south east side
114 M1 PE gas main and service to 10185-107 Street	ATCO Gas	Alley east of 107 Street and south of 102 Avenue
60/114 M1 PE abandonment (replacement on 103 Avenue)	ATCO Gas	Alley west of 107 Street south of 104 Avenue
TELUS V-3091 (vault roof lowering if required)	TELUS	West of 107 Street on 104 Avenue
TELUS V-3679 (vault roof lowering if required)	TELUS	East of 107 Street on 104 Avenue
Buried power conduits between P13732 and S13734, then east to the east side of 112 Street and north towards 105 Avenue	EPCOR D&T	North side 104 Avenue west of 112 Street to west of 113 Street
Buried power cables S11497 TO P9704	EPCOR D&T	Crossing 116 Street south of 104 Avenue to alley west of 116 Street
Gas service	ATCO Gas	Northeast of the corner of 104 Avenue and 116 Street

Water Hydrant H24659	EPCOR Water	104 Avenue, east of the alley east of 121 Street south side
Shaw vault	Shaw	North side of Stony Plain Road west of alley west of 127 Street
42M1 PE gas main and services	ATCO Gas	127 Street south of Stony Plain Road
Vault V509 (possible roof lowering if required)	TELUS	Alley west of 127 Street on 105 Avenue
Vault V-545 (possible roof lowering if required)	TELUS	North side of Stony Plain Road on 125 Street
TELUS vault V508 (possible roof lowering if required)	TELUS	Alley west of 126 Street on north side of Stony Plain Road
TELUS V-507 (possible roof lowering if required)	TELUS	North side of Stony Plain Road at alley west of 125 Street
Telecom services from pole 41061188 to property east of alley west of 125 Street	TELUS/Shaw	Alley west of 124 Street crossing Stony Plain Road
60M1 PE gas main and services	ATCO Gas	Sylvancroft Lane south of Stony Plain Road and west along south side Stony Plain Road to west of Woodbend Place. Including Woodbend Place main.
TELUS V-524 (possible roof lowering if required)	TELUS	North of Stony Plain Road on 129 Street
60M1 PE gas main and services	ATCO Gas	South of Stony Plain Road, in alley west of 137 Street and south
250mm CI / 300mm PVC water main (PVC would be retained, only cast iron would be considered for relocation)	EPCOR Water	From 139 Street crossing 102 Avenue onto Stony Plain Road, eastward into alley north of 102 Avenue
Ravine Point cul-de-sac utilities	Various	Ravine Point cul-de-sac
4 way telecom duct bank	TELUS	100 Avenue crossing 156 Street
Hydrant H5025	EPCOR Water	West side Meadowlark Road, south side of 91 Avenue
TELUS vault V2838	TELUS	Intersection of Meadowlark Road and 89 Avenue
Buried power conduits crossing 87 Avenue to service Meadowlark Mall businesses (P13103)	EPCOR D&T	Alley east of Meadowlark Road crossing 87 Avenue and then west along the north side of 87 Avenue
Vault V2839 (possible roof lowering if required)	TELUS	Vault 2839 Meadowlark Road at 88A Avenue
114 M1 ST gas main	ATCO Gas	North side of 87 Avenue east of Meadowlark Drive and south on 159 Street through 87 Avenue and south
2 way power duct bank from alley to MN698A and vault	EPCOR D&T	West side 164 Street into 87 Avenue west of 164 Street
42 M1 ST gas main	ATCO Gas	North side 87 Avenue from alley east of 165 Street to gas station on the east side of 165 Street

60 M1 ST gas main	ATCO Gas	West side of the intersection of 165 Street and 87 Avenue, along 87 Avenue to 169 Street and south
Hydrant H6745	EPCOR Water	East side of 172 St south of 87 Ave
219 IP2 ST Gas main and regulator station	ATCO Gas	North side 87 Avenue West of 175 Street to 178 Street
Power conduits and cabinets for EPCOR Drainage monitoring of the Aldergrove Dry pond. EPCOR D&T only responsible for portion within Road ROW, Project Co is responsible for protection in place or relocation as Project Co determine is necessary versus the TPSS and other project developments.	EPCOR Drainage (owner)/EPCOR D&T service to property line	Northwest corner of Aldergrove Dry pond land and within the north edge of the land parcel from 182 Street to Steinhauer Trail
168 M1 PE gas main north of proposed new main connection	ATCO Gas	West side Decoteau Trail from north side of 87 Avenue north along the trail
114 M1 PE gas main north side of 87 Avenue	ATCO Gas	North side of 87 Avenue north into 189 Street

### 6.5 Utility Infrastructure Not To Be Relocated

Project Co shall not relocate, modify or otherwise impact any of the Utility Infrastructure listed in Table 6.5 [*Utility Infrastructure Not To be Relocated*] of this Schedule.

**Table 6.5 – Utility Infrastructure Not To be Relocated**

Description	Utility Company	Location
36 way, 6 way, 6 way, 4 way, 3 way, and 9 duct banks	Telus (including other telecoms)	102 Avenue between 102 and 108 Street (connecting V-8,V-8B through V-12, V-12B)
12 way power duct bank	EPCOR D&T	North of new MN1225 on 103 Street north of 102 Avenue
300 PVC water main, hydrant H1644 and services	EPCOR Water	Southside of 102 Avenue south, on the west side of 103 Street
508 STL water main	EPCOR Water	North of 102 Avenue and South of 102 Avenue on 103 Street
100 CI water main and connection to 500 CI	EPCOR Water	South of 102 Avenue, in the middle of 102 Street
500 CI Water main and Hydrant 24868	EPCOR Water	South of 102 Avenue, west side of 102 Street
Rogers vault	Rogers	Vault southeast of V-8B on 102 Avenue west of 102 Street
Shaw vault	SHAW	Vault northeast of V-8B on 102 Avenue west of 102 Street

9 way power duct bank	EPCOR D&T	102 Avenue south of trackway from east of 102 Street to MN104 west of 102 Street
1200 CCP Watermain	EPCOR Water	Crossing 102 Avenue on 102 Street
88/168 IP5 PE gas main either side of abandoned 102 Avenue crossing	ATCO Gas	North of 102 Avenue in alley between 104 and 105 Street
Duct bank / duct connections north of V-2571A	Telus (including other telecoms within Bell, Shaw, Rogers)	102 Avenue and 104 Street (NW corner) north of V-2571A
16 way duct bank	Telus (including other telecoms)	South of vault V901
36 way duct bank	Telus (including other telecoms)	South of vault V900
72kV Transmission Power cable RV-2	EPCOR D&T	102 Avenue and 104 Street
48 way and 72 way telecom duct bank partial demolition to lower top of duct bank sufficiently to construct roadway and track over	TELUS/ SHAW/ BELL/ ROGERS	104 Street, 102 Avenue towards 103 Avenue from V901 and V900
Vault and duct bank / duct connections north (between V2571-A and Shaw vault)	SHAW	102 Avenue and 104 Street (NW corner)
72kV Transmission Power cable RV-6	EPCOR D&T	102 Avenue and 104 Street
72kV Transmission Power cable RV-4	EPCOR D&T	102 Avenue and 104 Street
100 CI Water main, connections and services	EPCOR Water	South of 102 Avenue in the middle of 104 Street
168 M1 ST	ATCO Gas	South of 102 Avenue; in alley west of 103 Street
Power service conduits from NV116N to the west and north	EPCOR D&T	North side of 102 Avenue west of 103 Street
400 Fusible PVC	EPCOR Water	105 Street crossing 102 Avenue
EPCOR D&T NV935	EPCOR D&T	East side 105 Street south 102 Avenue
406mm Watermain	EPCOR Water	102 Avenue west side 107 Street and west
300mm Watermain including H1633	EPCOR Water	107 Street from south of 102 Avenue into 102 Avenue
Buried power, telecom, gas, and storm sewer	Multiple utilities	Multiple existing utilities within and adjoining the alley west of 107 Street
TELUS V-13B, V-13	Telus (including other telecoms)	Alley west of 107 Street on 102 Avenue

NV120N	EPCOR D&T	West of alley west of 107 Street on north 102 Avenue
12 way Power duct bank, MN1303, MN1302	EPCOR D&T	West side 107 Street from south of 102 Avenue into 102 Avenue and west
Bell 2-50mm Conduits - ULA11384	Bell	109 Street crossing 104 Avenue
Bell Conduits	Bell	Opposite alley west of 107 Street north side of 104 Avenue
9 way duct bank / MN177 / NV177 and cabinet / MN178	EPCOR D&T	104 Avenue east of alley west of 107 Street to Alley west of 108 Street
300mm PVC / 300 AC Water main	EPCOR Water	104 Avenue between 106 and east of 107 Street
Telecom ducts south of V3679	TELUS	Alley east of 107 Street on 104 Avenue and south
6 way duct bank	TELUS	104 Avenue between 106 and alley west of 107 Street
200mm PVC Water main	EPCOR Water	112 Street to 104 Avenue
200mm PVC Water main	EPCOR Water	110 Street to 104 Avenue
300mm PVC / 200 PVC / 200 CI Water main	EPCOR Water	104 Avenue from south of 109 Street to east of 119 Street
150mm PVC Water main	EPCOR Water	104 Avenue south into alley west of 114 Street
200mm 150mm CI Watermain	EPCOR Water	Alley east of 118 Street into 104 Avenue
60/114 M1 PE Gas	ATCO Gas	Alley east of 118 Street into 104 Avenue
Aerial telecom	SHAW	Alley east of 118 Street into 104 Avenue
Aerial telecom	TELUS	Alley east of 118 Street into 104 Avenue
Power transformers either side of the alley and aerial power	EPCOR D&T	Alley east of 118 Street into 104 Avenue
150mm CI Watermain	EPCOR Water	Alley east of 117 Street into 104 Avenue
60/114 M1 PE Gas main	ATCO Gas	Alley west of 116 Street south of 104 Avenue
Buried TELUS conduits	TELUS	North side of 104 Avenue east of 116 Street
150mm CI Watermain	EPCOR Water	Alley east of 116 Street into 104 Avenue
18way duct bank south of existing Vault V-502	TELUS	East side of 121 Street south of 104 Avenue
Hand hole vault	SHAW	South of 104 Avenue on the east side of 121 Street
200mm AC Watermain	EPCOR Water	Alley east of 121 Street south into 104 Avenue



60/88 M1 PE Gas	ATCO Gas	Alley east of 121 Street south of 104 Avenue
Aerial telecom	TELUS	Alley east of 121 Street south of 104 Avenue
Aerial power	EPCOR D&T	Alley east of 121 Street south of 104 Avenue
200mm CI Watermain and Hydrant H24433	EPCOR Water	104 Avenue from alley west of 119 Street to 120 Street
200mm PVC Watermain	EPCOR Water	Alley east of 120 Street south of 104 Avenue
60M1 PE Gas	ATCO Gas	Alley east of 120 Street south of 104 Avenue
Aerial telecom	TELUS	Alley east of 120 Street south of 104 Avenue
Aerial power	EPCOR D&T	Alley east of 120 Street south of 104 Avenue
150mm CI Watermain	EPCOR Water	Easement east of 119 Street from the south to 104 Avenue
Hydrant H24636	EPCOR Water	Southwest corner of 121 Street and 104 Avenue
300mm PVC Watermain	EPCOR Water	104 Avenue east of alley east of 121 Street to alley west of 121 Street
Transformer at Oliver Tower	EPCOR D&T	Southwest corner of alley west of 121 Street and Stony Plain Road
Power pole 50145 in alley west of 122 Street - south side	EPCOR D&T	Alley west of 122 Street crossing Stony Plain Road, south side
TELUS cross connect cabinet	TELUS	Northeast corner of 122 Street and 104 Avenue
88 M1 PE Gas main	ATCO Gas	Alley west of 121 Street south of 104 Avenue
Aerial power	EPCOR D&T	Alley west of 121 Street south of 104 Avenue
Buried power conduits crossing Stony Plain Road beneath ZOI from P46640 (W30 - 261581 - 246275) new crossing at Sylvancroft needed	EPCOR D&T	West side of 127 Street from south of Stony Plain Road to 105 Avenue, along 105 Avenue to north side opposite Sylvancroft Lane
6 way duct bank and vaults east of V509	TELUS	East of V509 (alley west of 127 Street) along 105 Avenue east
Buried connections north of TELUS vault V508	TELUS/Shaw	Alley west of 126 Street from vault V508 to the north
60M1 PE Gas	ATCO Gas	East side of alley between 125 and 126 Street, north and south of Stony Plain Road

Shaw vault/pedestal	Shaw	East of alley west of 124 Street north side of Stony Plain Road
TELUS cross connect	TELUS	East of alley west of 124 Street north side of Stony Plain Road
12 way duct bank north of Vault V-545	TELUS	North side of Stony Plain Road to north along 122 Street
273 IP5 Steel gas main	ATCO Gas	105 Avenue 127 Street and west to 129 Street on Stony Plain Road
2 - 6 way duct banks - between vaults V545, V507, V508, V509, V510, V524	TELUS	Along the north side of Stony Plain Road from Alley west of 124 to 129 Street. Vaults could be lowered if required but otherwise are to remain in the same location (west of V506 to V524)
Aerial telecom and power retention south of new pole	TELUS/SHAW	Property W146C west of Woodbend Place south of Stony Plain Road
Aerial power retention south of new pole	EPCOR D&T	Property W146C west of Woodbend Place south of Stony Plain Road
60/88 M1 PE gas main	ATCO Gas	Alley west of Connaught Drive, south of Stony Plain Road
323 IP5 PE100 gas main	ATCO Gas	East side of Connaught Drive crossing Stony Plain Road
72kV Transmission Power Cable RW-3	EPCOR D&T	Stony Plain Road on Groat Road
273 IP5 Steel gas main	ATCO Gas	North side of Stony Plain Road from 129 Street to west of Connaught Drive
250 PVC Watermain	EPCOR Water	Along 104 Avenue east of 132 Street and Stony Plain Road
88/114 M1 PE gas main and services	ATCO Gas	Alley north of Stony Plain Road, between 132 and 133 Street
Aerial power	EPCOR D&T	Alley north of Stony Plain Road, between 132 and 133 Street
Aerial telecom	TELUS	Alley north of Stony Plain Road, between 132 and 133 Street
88/114 M1 PE gas main and services	ATCO Gas	Alley south of Stony Plain Road, between Glenora Crescent and 132 Street
Aerial power	EPCOR D&T	Alley south of Stony Plain Road, between Glenora Crescent and 132 Street
Aerial telecom	TELUS	Alley south of Stony Plain Road, between Glenora Crescent and 132 Street
60 M1 PE gas main and services	ATCO Gas	North/south alley south of Stony Plain Road, between 134 and 135 Street

60M1 PE gas main and services	ATCO Gas	Alley south of Stony Plain Road, between 134 and 135 Street
Aerial power	EPCOR D&T	Alley south of Stony Plain Road, between 134 and 135 Street
Aerial telecom	TELUS	Alley south of Stony Plain Road, between 134 and 135 Street
150 CI water main	EPCOR Water	Alley south of Stony Plain Road, between 134 and 135 Street
150 CI and 20 COP watermain	EPCOR Water	Alley north and south of Stony Plain Road east of 138 St
60 M1 PE gas main and services	ATCO Gas	134 Street south of Stony Plain Road
60 M1 PE gas main and services	ATCO Gas	Alley north of Stony Plain Road, between 133 and 134 Street
41 M1 PE gas main and services	ATCO Gas	133 Street south of Stony Plain Road
42 IP5 PE gas main and services	ATCO Gas	North of Stony Plain Road, west of 137 Street on 103 Avenue and in alley west of 137 Street
Aerial power	EPCOR D&T	Alley north of Stony Plain Road, between 136 and 137 Street and west along north side of 103 Av
Aerial telecom	TELUS	Alley north of Stony Plain Road, between 136 and 137 Street and west along north side of 103 Av
9 way power duct bank between vaults MN400 and MN398	EPCOR D&T	North of Stony Plain Road on 136 Street
42 IP5 PE gas main and services	ATCO Gas	North of Stony Plain Road, crossing 136 Street and along east side 136 Street north
4 way power duct bank and vaults MN634 and 633	EPCOR D&T	South side of Stony Plain Road, between 135 and 136 Street
9 way power duct bank and vaults MN401, 402 and west	EPCOR D&T	North side Stony Plain Road along 103 Avenue west of alley west of 136 Street
Aerial telecom	TELUS	Alley north of Stony Plain Road west of 142 Street
Aerial power (W17) 261585	EPCOR D&T	Alley north of Stony Plain Road west of 142 Street
168 M1 PE gas main	ATCO Gas	Alley north of Stony Plain Road west of 142 Street
100mm/150mm water main	EPCOR Water	Alley north of Stony Plain Road west of 142 Street

18 way telecom duct bank (V536 and V537) - Vaults and duct bank between and south of V537. Bell and Shaw vacating TELUS duct bank for 142 Street build	TELUS	South of trackway on Stony Plain Road from west of 140 Street to 142 Street and south on 142 Street
150mm CI/PVC water main and Hydrant H15732	EPCOR Water	146 Street, south of Stony Plain Road
Aerial power	EPCOR D&T	Alley south of Stony Plain Road crossing 145 Street with anchors on west side of 145 Street
Aerial telecom	TELUS	Alley south of Stony Plain Road crossing 145 Street with anchors on west side of 145 Street
Gas services	ATCO Gas	Property southeast of 151 Street and Stony Plain Road
114 M1 PE gas main and services	ATCO Gas	East of 150 Street along south Stony Plain Road and 149 Street west side
Main 50mm Municipex	EPCOR Water	149 Street, north of Stony Plain Road
250 water main	EPCOR Water	East of 150 Street along south Stony Plain Road and crossing 149 Street onto Summit Drive
200mm PVC water main and Hydrant H22254	EPCOR Water	148 Street, north of Stony Plain Road
Buried power crossing (W13) below ZOI	EPCOR D&T	East of 155 Street crossing Stony Plain Road
72kV Transmission Power cable MJ	EPCOR D&T	Stony Plain Road on 153 Street
4 way power duct bank and vault MN798	EPCOR D&T	South side of Stony Plain Road west of 156 Street and north on west side of 156 Street
2 way power conduits	EPCOR D&T	South side Stony Plain Road west of MN798 to customer on south side of road
300mm AC / PVC Water main	EPCOR Water	North side Stony Plain Road west of 156 Street and north on east side of 156 Street
300mm PVC Water main	EPCOR Water	East side of 156 Street from south of Stony Plain Road to south of 96 Avenue
Hydrant H4903	EPCOR Water	Northeast corner of 100 Avenue and 156 Street
Aerial power	EPCOR D&T	North side of 99 Avenue, west of 156 Street
88 M1 PE Gas main including services	ATCO Gas	West and East of 156 Street on 97 Avenue

300mm PVC watermain	EPCOR Water	North side of 98 Avenue 156 Street and east
Hydrants H15312, H4919	EPCOR Water	East side 156 Street north of 97 Avenue, 98 Avenue and mid block north of 98 Avenue
200mm PVC watermain	EPCOR Water	95 Avenue, east of 156 Street
Hydrant H15290	EPCOR Water	East side 156 Street north of 96 Avenue and mid block north of 96 Avenue
200mm PVC watermain	EPCOR Water	95 Avenue, west of 156 Street
300mm PVC watermain	EPCOR Water	96 Avenue, east of 156 Street
300mm PVC watermain	EPCOR Water	North side of 96 Avenue 156 Street and east
200mm / 250mm PVC watermain	EPCOR Water	East side 156 Street from south of 95 Avenue to south of 91 Avenue
250mm PVC watermain	EPCOR Water	92A Avenue, east of 156 Street
Hydrant H4981	EPCOR Water	East side 156 Street mid block north of 92A Avenue
200mm PVC watermain	EPCOR Water	93A Avenue, east of 156 Street
300mm PVC watermain	EPCOR Water	91 Avenue, east of 156 Street
200mm PVC watermain	EPCOR Water	92 Avenue, east of 156 Street
250mm PVC watermain	EPCOR Water	92 Avenue, west of 156 Street
300mm PVC watermain	EPCOR Water	West side of Meadowlark Road from 91 Avenue to south of 88A Avenue
200mm PVC watermain	EPCOR Water	88B Avenue, west of Meadowlark Road
200mm PVC watermain	EPCOR Water	89 Avenue, east of Meadowlark Road
250mm PVC watermain	EPCOR Water	89 Avenue, west of Meadowlark Road
300 PVC / 200 PVC / 250 PVC watermain	EPCOR Water	159 Street onto 87 Avenue and east of 159 Street on 87 Avenue
2-102mm TELUS conduits into Meadowlark Mall property	TELUS	Vault 2839 and east across Meadowlark Road at 88A Avenue
200mm PVC watermain	EPCOR Water	88A Avenue, west of Meadowlark Road
750mm CCP watermain	EPCOR Water	87 Avenue, west of Meadowlark Road to 163 Street
Power transformer P8706	EPCOR D&T	North side of 87 Avenue, west of Meadowlark Road
TELUS cross connect cabinets	TELUS	West side of 159 Street, South of 87 Avenue

250mm PVC watermain	EPCOR Water	South side of 87 Avenue, east of Meadowlark Road
750mm CCP watermain	EPCOR Water	87 Avenue, east of Meadowlark Road
200mm PVC / 150mm CI / 200 CI / 400mm AC watermain	EPCOR Water	South side of 87 Avenue, west of 161 Street to west side of 169 Street
200mm PVC / 200mm CI / 300mm PVC watermain and H5076	EPCOR Water	North side of 87 Avenue, west of Meadowlark Road to east of 165 Street
200mm CI watermain	EPCOR Water	164 Street to the south side of 87 Avenue and south
200mm CI watermain	EPCOR Water	163 Street to the north side of 87 Avenue and north
88 M1 ST gas main	ATCO Gas	In alley between 162 Street and alley east of 165 Street crossing 163 Street
168 IP5 ST / 219 IP5 ST gas main	ATCO Gas	West side 165 Street and alley crossing 87 Avenue
400mm AC watermain	EPCOR Water	165 Street north of 87 Avenue tying into main on 87 Avenue north
750 CCP watermain	EPCOR Water	87 Avenue just east of 169 Street to 170 Street then south on 170 Street
450mm AC watermain including valve chamber	EPCOR Water	170 St north and south of 87 Ave
6 way power duct bank and MN702 (W6)	EPCOR D&T	East side of 170 Street north, south and crossing in 87 Avenue
300mm AC watermain	EPCOR Water	175 Street crossing 87 Avenue
406 IP5 ST Gas main	ATCO Gas	East side of 178 Street crossing 87 Avenue
300mm AC watermain	EPCOR Water	Northbound lanes of 178 Street crossing 87 Avenue
12 way duct bank	TELUS	Centre of 178 Street crossing 87 Avenue
1050 CCP Water main north and south of 87 Avenue including chamber on south side of 87 Avenue	EPCOR Water	North and south of 87 Avenue along Decoteau Trail
Bell ducts (ULA13233)	Bell	East side of 182 Street crossing 87 Avenue
750 CCP Water main and control valves and valve chambers. Hydrant H15147 on Sheet 11	EPCOR Water	North side of 87 Avenue, Decoteau Trail to AHD east TUC boundary

300 AC water main north and south of ZOI	EPCOR Water	North side of 87 Avenue north into 189 Street and south of 87 Avenue on 189 Street
Gas regulating station	ATCO Gas	South of 87 Avenue between 187 and 188 Street
Power ducts west from splice including CS13996	EPCOR D&T	South of 87 Ave, east of AHD east ramp, and south alignment to cell tower
240kV Aerial Transmission Power and tower	EPCOR D&T	West of Anthony Henday Drive, Crossing 87 Avenue
300 PVC watermain	EPCOR Water	Potter Greens Drive
1350 CPP transmission water main including various valve chambers and valves	EPCOR Water	East of 199 Street to north of Pardee Bay NW crossing east through Anthony Henday TUC south of south project limit
508mm ATCO Pipeline APL87A	ATCO Pipelines	West side of Anthony Henday TUC crossing 87 Avenue and beyond south and north project limits
114 IP5 PE Gas main	ATCO Gas	Webber Greens Drive west of 199 Street and crossing Webber Greens Drive north
Telecom ducts and cabinets	SHAW	Webber Greens Drive west of 199 Street
Telecom ducts and cabinets including service to bus transit centre	TELUS	Webber Greens Drive west of 199 Street
Buried power ducts along south side Webber Greens Drive and servicing bus transit centre (up to 4193P)	EPCOR D&T	South side Webber Greens Drive from west of existing west transit centre entrance to west of 99 Street
300mm PVC water main, service and hydrants at bus transit centre	EPCOR Water	Webber Greens Drive west of 199 Street

## 7. UTILITY WORK DISCLOSED DATA

The City and Project Co acknowledge and agree that the documents and information referenced in this Section 7 are relevant to, and form the informational background to, this Schedule are referenced herein solely for informational purposes.

### 7.1 Development of Scope or Standards of Work

The nature and performance standards of Utility Work required to be undertaken or performed pursuant to this Schedule and the allocation of responsibilities, obligations and liabilities as between Project Co, the City and the applicable Utility Company are based on the following:

- 7.1.1 the Existing Utility Agreements;
- 7.1.2 the City Utility Work that is set out at Appendix 28-2A [*City Utility Work Completed Prior To Effective Date*];

- 7.1.3 the City Utility Work ongoing into the Construction Period and as set out at and Appendix 28-2B [*Incomplete City Utility Work*]; and
- 7.1.4 the Deferred Utility Work, including all required notifications or performance of repair replacement or removal work in relation to existing Utility Infrastructure, required to be carried out and coordinated by Project Co, all of which is listed at Appendix 28-2C [*Deferred Utility Work*] and Appendix 28-2D [*Pipeline Work*].

## **7.2 Information Only**

The following data and documents, along with the Preliminary Reference Design were used to identify potential Utility Conflicts and Project Co acknowledges and agrees that the provisions of Section 20.4 of this Agreement apply to all of such data and documents, without exception:

- 7.2.1 background information of utility locations, current Utility Conflicts, and variances, possible mitigation strategies, service connection requirements and similar information or data provided as Disclosed Data that Project Co may require to investigate and assess the Utility Work and Pipeline Work;
- 7.2.2 contacts for each Utility Company are listed at Appendix 28-2F [*Utility Company Contact Particulars*];
- 7.2.3 references to the ULA data and processes, listed at Appendix 28-2G [*Utility Line Assignment (ULA) Data and Processes*]; and
- 7.2.4 information was requested and information supplied has been compiled by the City from each Pipeline Company known to possess Pipeline Infrastructure within the Lands, including but not limited to:
  - (a) Pipeline Company standards and specifications;
  - (b) variances to Pipeline Company standards and specifications;
  - (c) notification requirements;
  - (d) documentation requirements;
  - (e) emergency response requirements;
  - (f) review & response time commitments;
  - (g) onsite personnel requirements;
  - (h) Pipeline Work commitment by Pipeline Company; and
  - (i) Pipeline Company personnel costs for call outs.
- 7.2.5 information requested and where supplied was compiled by the City from each Utility Company known to possess Utility Infrastructure within the Lands, including but not limited to:
  - (a) Utility Company standards and specifications;
  - (b) exceptions to Utility Company standards and specifications;



- (c) notification requirements;
- (d) documentation requirements;
- (e) emergency response requirements;
- (f) review & response time commitments;
- (g) onsite personnel requirements;
- (h) Utility Work commitment by Utility Company;
- (i) Utility Company personnel costs for call outs; and
- (j) Utility base mapping drawings, design files and other related data.

## **8. MISCELLANEOUS**

### **8.1 Contamination and Hazardous Substances**

In performing Project Co Utility Work, Project Co shall be responsible for managing Contamination and Hazardous Substances in accordance with the requirements of Schedule 10 [*Environmental Performance Requirements*].

### **8.2 Utility Work Relief Events**

Project Co shall, in the circumstances described in Section 11.1.1(d) of this Agreement, be entitled to claim a Utility Work Relief Event, subject to and in accordance with the provisions of Section 11 [*Relief Events*] of this Agreement.

### **8.3 Completion of Certain Pipeline Work**

- 8.3.1 Pipeline mitigations within the Gerry Wright OMF West Utility ROW to accommodate the north Trackway, drainage crossing, south Trackway and service road crossings based on crossing methodologies identified in the Preliminary Reference Design are to be completed by October 31, 2022.
- 8.3.2 The completion of the Pipeline mitigations by Pipeline Companies within the Gerry Wright OMF West Utility ROW is subject to the submission by Project Co no later than October 31, 2021, of Accepted crossing Designs for the north Trackway, drainage crossing, south Trackway and service road crossings that are consistent with the crossing methodologies identified in the Preliminary Reference Design. Designs must be tailored specifically for each Pipeline Company and must include all crossing agreement information requirements.

**APPENDIX 28-2A**

**City Utility Work Completed Prior To Effective Date**

<b>Description</b>	<b>Utility Company</b>	<b>Location</b>
Abandoned 36 way, 6 way telecom bank	TELUS w/ Shaw/Bell/Rogers	102 Avenue, 101 to west of 102 Street
Abandoned 12 way, 3 way telecom bank abandonment	TELUS w/ Shaw/Bell/Rogers	South side of 102 Avenue, 101 to west of 102 Street
Abandoned 12 way / 18 way power duct bank (DTD102A02)	EPCOR D&T	102 Avenue, 101 to just east of 103 Street (MN1213)
Abandoned 150 CI Water	EPCOR Water	102 Street from south side of 102 Avenue intersection into Mall
Abandoned 406 STL Water	EPCOR Water	102 Street through 102 Avenue intersection into Mall
Abandoned 406 STL Water	EPCOR Water	102 Avenue, 101 to east side of 103 Street
Abandoned 150 CI Water	EPCOR Water	South of 102 Avenue, crossing 102 Street to the east
Abandoned 300 AC Water (shown as CI but is AC)	EPCOR Water	Intersection of 102 Avenue and 102 Street and east
Abandoned 200 PVC Water and valve chamber	EPCOR Water	West of 102 Street on 102 Avenue; abandoned service to mall
Abandoned 200 PVC Water and valve chamber	EPCOR Water	West of 102 Street on 102 Avenue; abandoned service to mall
Abandoned 4 way power duct bank service	EPCOR D&T	Service from MN1208 to the south; 102 Avenue west of 102 Street
Abandoned 2 way telecom duct bank	TELUS w/ Shaw/Rogers	West of 102 Street on 102 Avenue; abandoned service to mall
Abandoned Shaw duct service	SHAW	West of 102 Street on 102 Avenue; abandoned service to mall
Abandoned 168 ST gas main	ATCO Gas	Middle of block between 102 and 103 Streets running north/south
Abandoned 114 ST gas main	ATCO Gas	Middle of block between 102 and 103 Streets running north/south
Abandoned streetlight cabling	City of Edmonton	Northeast corner of 103 Street and 102 Avenue, impacted by NV1225 installation
Streetlight buried power relocation - ULA SL-190194-PAC	City of Edmonton	Northeast corner of 103 Street and 102 Avenue, around NV1225
Abandoned 100 CI water main	EPCOR Water	Middle of 103 Street south of 102 Avenue

Abandoned 150 PVC Water service	EPCOR Water	South of 102 Avenue, Service from 300 PVC to east
Abandoned 25 Copper service	EPCOR Water	South of 102 Avenue, Service to the west from 300 PVC
Construct Telecom duct bank to V-8/V-8B	TELUS w/ Shaw/Bell/Rogers	102 Avenue, east of 102 Street to V-8 and V-8B between 102 and 103 Street
Construct duct services crossing beneath future track from V-8	TELUS w/ Shaw/Rogers	From the south side of the future tracks, north to service the mall
Construct duct services crossing beneath future track from V-8B w/ Shaw and Rogers vaults	TELUS/Rogers/ Shaw	From the south side of the future tracks, east on 102 Av and north to service the mall
City Fibre Optic line crossing lowering in same alignment	City of Edmonton	103 Street crossing 102 Avenue
250mm PVC Watermain	EPCOR Water	North of 102 Avenue on east side of 103 Street and connecting to transmission water
50mm Copper water services (2)	EPCOR Water	North of 102 Avenue on east side of 103 Street, servicing building west side 103 Street
Power duct services (ULA 024819)	EPCOR D&T	South of 102 Avenue on east side of 103 Street and crossing to service Encore Tower from MN1214
Power duct banks; MN1225 and NV1225 Installation to NV116N (Variance approved)(civil construction completed; equipment and cabling in process)	EPCOR D&T	North side of 102 Avenue, from east side of 103 Street to west across 103 Street between NV1225 and NV116N
Convert NV116N into a manhole type vault and abandon remainder of network vault (Variance approved)	EPCOR D&T	North side of 102 Avenue west of 103 Street
Telecom duct installation (RPN-718616)	SHAW	East side of 103 Street to just south of 102 Avenue servicing building on Southeast corner of intersection
Abandon 168 M1 ST gas main	ATCO Gas	Alley west of 103 Street; crossing 102 Avenue
Bell service on north side of 102 Avenue from TELUS vault V-10 at alley west of 103 Street	Bell	Southside 102 Avenue from TELUS vault V-10 to northeast of alley west of 103 Street, crossing 102 Avenue and servicing YMCA building to the north side of 102 Avenue
TELUS service connection ULA2734678	TELUS	Alley west of 103 Street
88/168 gas main abandonment - G77963	ATCO Gas	Alley west of 104 Street, crossing 102 Avenue

Abandoned telecom vault	Unknown	South of 102 Avenue, west side of 104 Street (south of V-900)
Abandoned storm sewer connection from NV935 to nearby CB	EPCOR D&T	Southeast corner of 102 Avenue, east side 105 Street
Abandon 114/219 M1 PE gas main crossing 102 Av through pressure change and new construction on 103 Avenue	ATCO Gas	Alley between 105 and 106 Street crossing 102 Avenue
Abandon 114 M1 PE gas main crossing 102 Av through pressure change and new construction on 103 Avenue	ATCO Gas	Alley between 106 and 107 Street crossing 102 Avenue
Abandon buried City Fibre optic cable in conduit	City of Edmonton	East side of 107 Street from north to south side of 102 Avenue
Construct lowered City fibre optic cable in conduit to reconnect Fire Hall 2 to City IT	City of Edmonton	East side of 107 Street from north to south side of 102 Avenue
Abandon 300 PVC water main, hydrants and services	EPCOR Water	West side of 107 Street from the north side of 102 Avenue to 104 Avenue
Construct 300 PVC water main c/w reservicing of various properties and relocating/reconnecting hydrants	EPCOR Water	East side of 107 Street from the north side of 102 Avenue to 104 Avenue
Replace 150 PVC water service with cased crossing tying into new watermain	EPCOR Water	107 Street, South of 103 Avenue servicing college
Construct new IP gas main on 103 Avenue to allow crossing abandonments in alleys west of 106 and 105 Streets including customer conversions	ATCO Gas	103 Avenue, east of 104 Street
Replace 150 PVC water service with cased crossing tying into new watermain	EPCOR Water	107 Street, north of 103 Avenue servicing property on west side
Telecom ducts south of V3679	TELUS /SHAW	Alley east of 107 Street on 104 Avenue and south
Replace 150 PVC water service with cased crossing tying into new watermain (WBF including civil modifications in building)	EPCOR Water	107 Street, South of 104 Avenue servicing college
Lower and case 300 PVC Watermain WLRT-1907	EPCOR Water	110 Street, crossing 104 Avenue
Lower and case 300 PVC Watermain WLRT-1908D	EPCOR Water	112 Street, crossing 104 Avenue
Abandon buried telecom ducts, remove pedestals	TELUS/SHAW	North side of 104 Avenue, 112 to west of 113 Street
Construct buried telecom ducts and install pedestals north of construction zone	TELUS/SHAW	North side of 104 Avenue, 112 to west of 113 Street

Relocate buried power conduits between P13872/ and a relocated S13734 cubicle	EPCOR D&T	North side 104 Avenue west of 112 Street to east of 113 Street
Lower and case 200 PVC Watermain WLRT-1908C	EPCOR Water	West of 113 Street, crossing 104 Avenue
Remove existing hydrant	EPCOR Water	South side of 104 Avenue, east side of entrance at 114 Street
Lower and case 200 PVC Watermain WLRT-1908B	EPCOR Water	West of 114 Street, crossing 104 Avenue
Lower and case 200 PVC Watermain and Install hydrant WLRT-1908A	EPCOR Water	Between 114 Street and east of 116 Street, crossing 104 Avenue with hydrants on the south side
Relocate buried power conduits on north side of 104 Avenue crossing 104 Avenue west of 116 Street; S11496 to S11497 (W39)	EPCOR D&T	North side of 104 Avenue crossing 104 Avenue west of 116 Street
Relocate buried power conduits from northeast side of 116 Street crossing 104 Avenue towards P9704 (W40)	EPCOR D&T	East side 116 Street from north of 104 Avenue crossing 104 Avenue
Lower and case 200 PVC Watermain WLRT-1916A	EPCOR Water	117 Street, crossing 104 Avenue
Lower and case 200 PVC Watermain WLRT-1916B	EPCOR Water	118 Street, crossing 104 Avenue
Abandoned TELUS aerial cabling and signals connections including north side 104 Avenue at 120 Street	TELUS	North side of 104 Avenue, between 118 Street and 121 Street
88 M1 PE / 60 M1 PE Gas main crossing 104 Avenue	ATCO Gas	East of 119 Street crossing 104 Avenue
Abandoned gas services to Purolator Building	ATCO Gas	North of 104 Avenue and east of 119 Street; services to Purolator building
Bury aerial power and remove aerial poles (W36) - first phase from 121 Street to west of Purolator building installed and burial of aerial crossing of 104 Avenue at 121 Street. Conversion to streetlight/traffic signals west of 119 Street to 120 Street and at NE corner of 121 Street. (261405)	EPCOR D&T	North side of 104 Avenue, between 119 Street and 121 Street; and east side of 121 Street crossing 104 Avenue and alley west of 119 Street crossing
Shaw buried crossing 104 Avenue (SSD-2571)	SHAW	From alley west of 119 Street south of 104 Avenue, running east towards 119 Street and crossing 104 Avenue before turning back west and entering Brewery District
Lower and case 300mm PVC watermain	EPCOR Water	East of 119 Street crossing 104 Avenue

300mm PVC watermain / abandonment of sections of 200 CI on the south side 104 Avenue and crossing 104 Avenue including 120 to 121 Street	EPCOR Water	Install North side of 104 Avenue from east of 119 Street to alley west of 121 Street / abandon sections along south side of 104 Avenue
Lower and case 200mm PVC cased watermain	EPCOR Water	West of 119 Street crossing 104 Avenue
Remove hydrant H1344 and lead (WLRT1920A) abandon watermain	EPCOR Water	North east of the intersection of 104 Avenue and 119 Street. Adjacent to Purolator building
Relocate hydrant H26642 (WLRT1920B) abandon former lead	EPCOR Water	North east of the intersection of 104 Avenue and 119 Street
Install new hydrant H26645 remove existing hydrant H23660 (WLRT 1920C)	EPCOR Water	North side of 104 Avenue, Northwest of alley west of 119 Street
Abandoned 150 CI Water	EPCOR Water	120 Street crossing 104 Avenue
Install new hydrant H26653 remove existing hydrant H23661 (WLRT 1920E)	EPCOR Water	North side 104 Avenue east of 121 Street
Install 300mm PVC cased watermain crossing	EPCOR Water	Alley west of 120 Street crossing 104 Avenue
Remove aerial telecom crossing 104 Avenue at 121 Street	TELUS	East side of 121 Street crossing 104 Avenue
150mm PVC water main service and abandonment of Stony Plain Road service connection and 200 CI main (WLRT-1917A)	EPCOR Water	Crossing 121 Street north of 104 Avenue
323 IP5 ST gas main construction	ATCO Gas	East side 121 Street crossing from south 104 Avenue to 105 Avenue
Shaw and Bell duct system relocation onto 121 Street, 105 Avenue (ULA 2017-1480 and Bell ULA 190473) to 142 Street. Along 142 Street crossing Stony Plain Road. Installations on 104 Avenue and streets between 123 and 127 Streets	SHAW/BELL	West side of 121 Street crossing from south of 104 Avenue to 105 Avenue and west to 142 Street. South on 142 Street to south of 101A Avenue crossing Stony Plain Road
Abandoned Shaw facilities in TELUS Stony Plain Road duct system	Shaw	Stony Plain Road from 121 Street to 142 Street
Abandoned Bell facilities in TELUS Stony Plain Road duct system	Bell	Stony Plain Road from 121 Street to 142 Street
Removal of aerial power along Stony Plain Road west of 121 Street to 123 Street (ULA 237274)	EPCOR D&T	West of 121 Street on Stony Plain Road
Abandon aerial power crossing Stony Plain Road	EPCOR D&T	Alley west of 121 Street crossing Stony Plain Road

Abandoned 200 CI watermain	EPCOR Water	Alley west of 121 Street crossing Stony Plain Road
Relocation of gas service to Oliver Tower and abandonment of existing service and portion of main just south of Stony Plain Road	ATCO Gas	Alley west of 122 Street on the south side of Stony Plain Road
Abandoned aerial power crossing Stony Plain Road	EPCOR D&T	Alley west of 122 Street crossing Stony Plain Road
88/168 M1 PE gas main abandoned crossing Stony Plain Road G75031	ATCO Gas	Alley west of 122 Street, crossing Stony Plain Road
Bell conduit and vault abandonments	Bell	Stony Plain Road from north of 123 Street to alley west of 124 Street
250 PVC cased watermain crossing	EPCOR Water	Alley west of 122 Street crossing Stony Plain Road
Abandoned 200 CI watermain	EPCOR Water	Stony Plain Road from Alley west of 123 to 127 Street
Abandoned 219 ST gas main	ATCO Gas	Alley west of 121 Street south and into Stony Plain Road then along Stony Plain Road to East of 133 Street
Abandoned 273 IP5 ST Gas main	ATCO Gas	123 Street east side crossing Stony Plain Road
Abandoned Bell conduits and vault including Bell vault abandonment west of 124 Street	Bell	123 Street east side and along Stony Plain Road to 125 Street; vault and conduit connection west of 124 Street on south side of Stony Plain Road
Bell and Shaw conduit crossing installation; tying into work needed to abandon Bell and Shaw from conflicts on Stony Plain Road	Bell / Shaw	West side 123 Street crossing Stony Plain Road between 105 and 104 Avenue
Abandoned 60 M1 PE Gas main and service	ATCO Gas	Centre of Stony Plain Road west of 124 Street
Abandoned Bell vault and service lines	Bell	Stony Plain Road between 124 and 123 Street; along 124 and 125 Street south of Stony Plain Road
Abandoned 273 ST gas main - segment cadastral shows on east side of alley crossing	ATCO Gas	Alley between 123 and 124 Street crossing Stony Plain Road
Abandoned 273 ST gas main - alignment on west side of alley crossing	ATCO Gas	Alley between 123 and 124 Street crossing Stony Plain Road
200mm PVC Watermain casing	EPCOR Water	Alley between 123 and 124 Street crossing Stony Plain Road

Abandoned Shaw service conduit	Shaw	Alley west of 124 Street to properties on the south side of Stony Plain Road
Abandoned 114 M1 PE Gas Main crossing	ATCO Gas	Alley west of 124 Street crossing Stony Plain Road
Abandoned 168 ST gas main	ATCO Gas	125 Street from south side of Stony Plain Road to the south
Construct new watermain services to property on the southwest corner of 124 Street and Stony Plain Road, crossing the ZOI with casings and abandon existing	EPCOR Water	Alley west of 124 Street to properties on the south side of Stony Plain Road
Install TELUS conduit system connecting to Vault V545 (274095-006917)	TELUS	From vault 545 in the northeast corner of 125 Street north side of Stony Plain Road; north on east side 125 Street into alley north of Stony Plain Road, and south side 105 Avenue
Construct 200mm PVC cased crossing and connection to existing 150mm main; hydrant relocation H263	EPCOR Water	West side of 125 Street south side of Stony Plain Road crossing Stony Plain Road to east side 125 Street north and into alley north of Stony Plain Road; Relocate hydrant to east side of 125 Street of Stony Plain Road
Abandoned 88/168 M1 PE Gas main and abandoned and relocated 42 M1 PE gas main service (G75030)	ATCO Gas	Alley west of 125 Street crossing Stony Plain Road; South side of Stony Plain Road from the alley west of 125 Street to property on the south side of Stony Plain Road
Abandon 200mm watermain	EPCOR Water	Alley west of 125 Street from 105 Avenue to south of Stony Plain Road
Construct PVC Watermain along 105 Avenue and on 127 Street crossing Stony Plain Road	EPCOR Water	Along 105 Avenue from alley west of 124 Street to 127 Street; crossing Stony Plain Road on 127 Street
Bell and Shaw conduit crossing installation; tying into work needed to abandon Bell and Shaw from conflicts on Stony Plain Road	Bell / Shaw	West side 126 Street crossing Stony Plain Road between 106 and 104 Avenue
Construct 250mm PVC Watermain cased crossing and Relocate hydrant H14591	EPCOR Water	126 Street crossing Stony Plain Road and Northeast corner of intersection
Abandon 200mm watermain	EPCOR Water	East side of alley west of 126 Street crossing Stony Plain Road
Abandoned 88 M1 PE Gas main (G75030)	ATCO Gas	Alley west of 126 Street crossing Stony Plain Road



Abandoned 168 ST gas main	ATCO Gas	105 Avenue from 125 Street west joining Stony Plain Road at 127 Street
Abandoned 60 ST gas main	ATCO Gas	South side of Stony Plain road onto 127 Street
200mm cased Water main crossing SPR (EWASPR09) connecting into new main east of 127 Street	EPCOR Water	West side of 127 Street crossing Stony Plain Road
250mm Water main along north SPR (EWASPR09) connecting into new main on 127 Street and existing cased crossing at Sylvancroft Lane; including service relocation for property west of alley	EPCOR Water	North side of Stony Plain Road from 127 Street to alley west of 127 Street and servicing property west of alley
Abandoned 100 CI water main/service	EPCOR Water	Southwest corner of Stony Plain Road and 127 Street
Construction of buried conduits crossing Stony Plain Road at 127 Street and at Sylvancroft Lane including below ZOI Abandoned buried power conduits 246275	EPCOR D&T	105 Avenue between 127 Street and west of Sylvancroft Lane; crossing Stony Plain Road at 127 Street and Sylvancroft Lane
Abandoned 114 ST gas main	ATCO Gas	Alley west of 127 Street crossing Stony Plain Road to abandoned gas main in Stony Plain Road
Cased 250mm water main crossing Stony Plain Road	EPCOR Water	Sylvancroft Lane crossing Stony Plain Road to 105 Avenue
250mm/200mm PVC Watermain in Sylvancroft and proposed roadway south of Stony Plain Road	EPCOR Water	Sylvancroft Lane south of Stony Plain Road
Lower or eliminate buried telecom crossing Stony Plain Road	TELUS	Crossing Stony Plain Road at Sylvancroft Lane
Buried power conduit relocation into Sylvancroft Lane and Woodbend Place and abandonment of existing 239123 includes crossing of Stony Plain Road below ZOI	EPCOR D&T	North side of Stony Plain Road to South side of Stony Plain Road into Sylvancroft Lane and Woodbend Place
Relocated telecom and power pedestal into Sylvancroft Lane (owner precipitated relocation due to land sale to City)	TELUS/SHAW/EPCOR D&T	Sylvancroft Lane
Abandon 200-CI-1912 water main 127 Street and west	EPCOR Water	105 Avenue and 127 Street to west of 129 Street
Abandon 150-PVC-1977 watermain into Glenora Pointe	EPCOR Water	Stony Plain Road and Glenora Pointe

Abandoned 150-CI-1946 water main crossing Stony Plain Road	EPCOR Water	Service into Woodbend Place replaced by water in new alignment in road between Woodbend Place and Sylvanecroft Lane
Abandoned 168 ST gas main	ATCO Gas	Stony Plain Road from Groat Road to Glenora Crescent
Abandoned 273 ST gas main	ATCO Gas	Stony Plain Road from Groat Road to east of alley west of 133 Street
Abandon and replace Hydrant H297	EPCOR Water	Northeast corner of the Groat Road bridge
Abandoned 200mm PVC, 300 PVC, 250 CI watermain and crossings of the ZOI along Stony Plain Road (crossings at Connaught, Glenora Cres, 132 St, 133 St, 136 St) to include hydrant installations for flushing purposes as determined by EPCOR Water	EPCOR Water	Stony Plain Road west of Groat Road bridge to west of 136 Street
250 watermain and cased crossing of the ZOI	EPCOR Water	131 Street crossing Stony Plain Road from 105 Avenue to 104 Avenue
250 watermain relocation onto 105 Avenue to enable abandonment of Stony Plain Road existing water	EPCOR Water	105 Avenue alley east of 131 Street to west
Bell and Shaw conduit crossing installation 131 Street; tying into work needed to abandon Bell and Shaw from conflicts on Stony Plain Road	Bell / Shaw	131 Street crossing Stony Plain Road from 105 Avenue to 104 Avenue and in alleyway south of Stony Plain Road; includes alley west of Glenora Cres into Stony Plain Road Telus duct bank
Bell buried conduits crossing Stony Plain Road with connections to Vault 527	Bell	Alley west of Glenora Crescent crossing from alley of Stony Plain Road south and east of 132 Street crossing Stony Plain Road between 132 Street and alley west of 132 Street
Abandoned 88/114 M1 PE Gas main	ATCO Gas	Alley south of Stony Plain Road and east of 132 Street
Abandon 250 PVC 2013 water main crossing Stony Plain Road and south of Stony Plain Road	EPCOR Water	132 Street crossing Stony Plain Road
Abandoned 406 STL Water main	EPCOR Water	132 Street crossing Stony Plain Road
Abandoned 114 ST gas main	ATCO Gas	Alley west of 132 Street to alley south of Stony Plain Road
Relocate Hydrant H435 and install new hydrant/retention of	EPCOR Water	Alley west of 132 Street north side of Stony Plain Road

existing main north of Stony Plain road in alley		
Abandoned 219 ST water main	EPCOR Water	104 Avenue crossing Stony Plain Road
Abandoned 250 CI water main	EPCOR Water	104 Avenue south of Stony Plain Road and east of 133 Street
Construct 250 PVC water main including cased crossing of Stony Plain Road through ZOI; including additional installations within Glenora, north of 104 Avenue west of Stony Plain Road and abandon watermain crossing on 133 Street	EPCOR Water	Along 104 Avenue from east of 133 Street to west of 135 Street; north of 104 Avenue north of Stony Plain Road
Relocate hydrant H602	EPCOR Water	West side 133 Street, south of Stony Plain Road and 104 Avenue
Abandoned 60 ST gas main	ATCO Gas	West side 133 Street crossing Stony Plain Road
Abandoned 168 ST gas main	ATCO Gas	East of alley west of 133 Street from south side Stony Plain Road into 104 Avenue and west to 134 Street, crossing south across Stony Plain Road on 134 Street
Abandoned 168 ST gas main	ATCO Gas	Stony Plain Road west of 133 Street onto 103 Avenue west of alley west of 136 Street
Abandoned 114 ST gas main	ATCO Gas	Alley west of 133 Street crossing Stony Plain Road
Abandoned 168 ST gas main	ATCO Gas	Alley west of 133 Street crossing Stony Plain Road
Reconstruct water main (200mm) below Stony Plain Road ZOI complete with cased crossing	EPCOR Water	Alley west of 133 Street crossing Stony Plain Road from 104 Avenue to south of Stony Plain Road
Abandoned 114 ST gas main	ATCO Gas	Alley west of 134 Street crossing Stony Plain Road
Abandon watermain north of Stony Plain Road and install flush point	EPCOR Water	Alley west of 134 Street and into acquired property west of alley west of 134 Street crossing Stony Plain Road
Abandoned 114 ST gas main	ATCO Gas	Alley south of Stony Plain Road and east of 135 Street
Bell and Shaw conduit crossing installation 131 Street; tying into work needed to abandon Bell and Shaw from conflicts on Stony Plain Road	Bell / Shaw	East side of 135 Street crossing Stony Plain Road

Construct water main to reconnect 150 watermains and main crossing Stony Plain Road	EPCOR Water	135 Street and alley south of Stony Plain Road east of 135 Street
Construct water main crossing Stony Plain Road complete with cased crossing of the ZOI; complete with additional installations south of Stony Plain Road to facilitate abandonment along Stony Plain Road	EPCOR Water	135 Street crossing Stony Plain Road including along 103 Avenue west of 135 Street south of Stony Plain Road
Abandoned 150 CI water mains	EPCOR Water	135 Street crossing into Stony Plain Road and in alley east of 135 Street south of Stony Plain Road
Abandoned buried Bell conduits running along and crossing Stony Plain Road and 135 Street connecting to vault V531 (ULA 190473)	Bell	West side 135 Street and along Stony Plain Road
Abandonment of water main connection to 250 CI watermain along Stony Plain Road	EPCOR Water	Alley west of 135 Street north side of Stony Plain Road
Abandoned 60 ST gas main	ATCO Gas	136 Street crossing Stony Plain Road
Abandon 200 CI 1931 water main crossing into Stony Plain Road	EPCOR Water	136 Street crossing into Stony Plain Road from south side
Abandoned 60 ST gas main including services	ATCO Gas	Northwest of Stony Plain Road along 103 Avenue
Aerial power burial below ZOI crossing Stony Plain Road including removal/relocation of poles (W22) 262054-7	EPCOR D&T	136 Street crossing Stony Plain Road
Construct water main on 136 Street north of Stony Plain Road	EPCOR Water	136 Street north of Stony Plain Road and into alley north of Stony Plain Road east of 136 Street
Abandoned Shaw buried conduit connection to V-532	Shaw	Alley west of 136 Street, north of Stony Plain Road
Abandon water main connection to main on Stony Plain Road and install new hydrant to replace H2479 on 137 Street	EPCOR Water	Alley west of 136 Street, north of Stony Plain Road
Abandon Bell buried conduits and hand hole (ULA 190473) to vault V533	Bell	Alley east of 138 Street and 138 Street north side of Stony Plain Road
Abandoned 60 ST gas main	ATCO Gas	Alley east of 138 Street, south of Stony Plain Road
Elimination of aerial power crossing Stony Plain Road (W20) 263827. To be completed with neighbourhood circuit upgrades 262053-7	EPCOR D&T	Alley east of 138 Street crossing Stony Plain Road

Install anchor on pole south of Stony Plain Road in alley 262053	EPCOR D&T	Alley east of 138 Street south of Stony Plain Road
Construct Bell buried conduits and hand hole to replace assets in Telus Stony Plain Road duct banks (ULA 190473)	Bell	138 Street, north of Stony Plain Road
Abandoned 168 M1 PE gas main	ATCO Gas	Alley south and east of 139 Street into Stony Plain Road; along Stony Plain Road west of 139 Street to 146 Street
Abandoned Shaw conduits into vault V534 from poles north of Stony Plain Road	Shaw	Alley west of 138 Street crossing Stony Plain Road
Abandoned 114 ST gas main	ATCO Gas	Alley west of 138 Street crossing Stony Plain Road to alley south of Stony Plain Road east of 139 Street
323 IP5 PE 100 gas main lowering under Stony Plain Road ZOI. ATCO notes main to be below the ZOI	ATCO Gas	West side of 139 Street, crossing Stony Plain Road
Lowered power conduits crossing Stony Plain Road below ZOI (W18) WO 235196	EPCOR D&T	East side of 140 Street from 102 Avenue across Stony Plain Road
Abandoned Shaw conduit connection to vault V536	Shaw	West of 140 Street crossing Stony Plain Road
2-abandoned 60 ST gas mains	ATCO Gas	West of 140 Street crossing Stony Plain Road
Abandoned 9 way power duct bank	EPCOR D&T	Alley east of 142 Street crossing Stony Plain Road
Bell and Shaw ducts on 142 Street to abandon their facilities within TELUS ducts along Stony Plain Road and on 142 Street	Bell/Shaw	142 Street crossing Stony Plain Road
Abandoned 60 ST gas main	ATCO Gas	142 Street crossing into Stony Plain Road
300 PVC water main complete with cased crossing of the ZOI through 142 Street; hydrant relocation and abandonment H643	EPCOR Water	142 Street crossing Stony Plain Road
Bury aerial power and remove aerial poles (W16) (261577)	EPCOR D&T	143 Street crossing Stony Plain Road
273 IP5 ST gas main relocation into crossing below ZOI including abandonment of previous crossing (G74500)	ATCO Gas	143 Street crossing Stony Plain Road from alley north of Stony Plain Road

88 M1 PE gas main relocation including crossing below ZOI and new services from 101 Avenue, abandonment of existing crossing of Stony Plain Road and south gas main and services to properties south of Stony Plain Road(G78114)	ATCO Gas	145 Street crossing Stony Plain Road between alley north and south; south side of Stony Plain Road; and 101 Avenue along with 145 and 146 Street south of Stony Plain Road
200mm PVC water main including cased crossing below ZOI (WLRT1909) and abandonment of 150 AC and 100 CI water mains	EPCOR Water	145 Street crossing Stony Plain Road between alley north and south
200mm PVC water main including 25mm copper services crossing below ZOI (WLRT1909); abandonment of existing 150 AC and 150 CI watermains and 20mm services	EPCOR Water	North side of Stony Plain Road between 145 and 146 Street including crossings to re-service properties on south side of Stony Plain Road and main reconnection north of Stony Plain Road on 146 Street including abandonment into 146 Street south of Stony Plain Road
Abandoned 168 ST gas main	ATCO Gas	North side Stony Plain Road from east side of 145 to 146 Street and north and south of Stony Plain Road on 146 Street
Abandoned 114 ST gas main	ATCO Gas	Stony Plain Road west of 145 Street and crossing south into 146 Street
Abandoned 60 M1 PE Gas main (G78114)	ATCO Gas	146 Street crossing Stony Plain Road
Abandoned 300 CI water main	EPCOR Water	West side 148 Street crossing Stony Plain Road
Abandoned 114 ST gas main including G74872	ATCO Gas	East side 149 Street onto north Stony Plain Road and crossing south on 150 Street and going north on 150 Street
Abandoned 100 and 150 CI water mains	EPCOR Water	South side of 149 Street crossing west south of Stony Plain Road and north crossing Stony Plain Road into 150 Street
250 PVC water main and cased crossing of Stony Plain Road, hydrant installation, and abandonment of preexisting water main crossing (WLRT-1903)	EPCOR Water	East side of 150 Street crossing Stony Plain Road
300 PVC water main complete with cased crossing of the ZOI on 151 Street and abandonment of preexisting main (WLRT-1904)	EPCOR Water	East side of 151 Street crossing Stony Plain Road

Buried power (W15) 238449-2012	EPCOR D&T	East side of 152 Street crossing Stony Plain Road
Abandoned 114 M1 ST gas main G74870	ATCO Gas	East side 152 Street crossing Stony Plain Road
Reconstructed 168 IP5 ST gas main crossing below Stony Plain Road ZOI (G74875)	ATCO Gas	West side 152 Street crossing Stony Plain Road
114 IP5 PE gas main and abandonment of 168 M1 ST gas main (G71500)	ATCO Gas	East side 153 Street crossing Stony Plain Road
300 PVC water main abandonment and hydrant H26724 relocation (WLRT-1910)	EPCOR Water	East side 156 Street on and south of Stony Plain Road
Burial of aerial power crossing (W12) below ZOI (ULA 261576)	EPCOR D&T	Alley south of Stony Plain Road crossing 156 Street
Burial of aerial telecom crossing below ZOI (RPN-784493)	SHAW	Alley south of Stony Plain Road crossing 156 Street
Abandoned 114 M1 ST gas main	ATCO Gas	Alley south of Stony Plain Road crossing 156 Street and along 156 Street to 100 Avenue and west into 100 Avenue
200 Water main cased crossing and hydrant installation WLRT1905	EPCOR Water	Alley south of Stony Plain Road crossing 156 Street
250 Water main cased crossing and hydrant installation WLRT1906	EPCOR Water	100A Avenue crossing of 156 Street
Abandoned 200 CI / 150 CI watermain	EPCOR Water	156 Street - Alley north of 100A Avenue to 96 Avenue
Abandoned 200 CI watermain	EPCOR Water	100 Avenue crossing 156 Street
168 M1 ST gas main crossing below 156 Street ZOI (G74502) (to be abandoned on future ATCO Works)	ATCO Gas	100 Avenue crossing 156 Street
Water hydrant relocations (WLRT1911A)	EPCOR Water	East side 156 Street south of 100 Avenue and north of 99 Avenue
Water hydrant relocations (WLRT1911B)	EPCOR Water	Northeast side of intersection of 156 Street and 100 Avenue
Burial of 4 way TELUS conduits below 156 Street ZOI	TELUS	Southside 98 Avenue crossing 156 Street
Abandoned 200 CI watermain	EPCOR Water	West of 156 Street on 97 Avenue
300 PVC water main including cased crossing of 156 Street along with diversion around casing and short abandonment WLRT1813	EPCOR Water	97 Avenue crossing 156 Street
Abandoned 88 M1 ST gas main crossing 156 Street (G77798)	ATCO Gas	97 Avenue crossing 156 Street

Burial of aerial power crossing 260073-1	EPCOR D&T	97 Avenue crossing 156 Street
Abandoned 42 ST gas main and services	ATCO Gas	East side 96 Avenue crossing onto 156 Street, going south down west side 156 Street
Hydrant H4931	EPCOR Water	East side 156 Street north of 97 Avenue
Abandoned 250 PVC water main	EPCOR Water	156 Street, south of 96 Avenue to south side 95 Avenue
250 Water main relocation, cased crossing installation and hydrant relocations WLRT1912	EPCOR Water	156 Street from south of 96 Avenue to 95 Avenue and 96 Avenue crossing 156 Street
60 M1 Gas main crossing abandonment G77964	ATCO Gas	95 Avenue crossing 156 Street
H4938 relocated in 2019	EPCOR Water	East side 156 Street north of 96 Avenue
Hydrant H5001 relocated in 2019	EPCOR Water	West side 156 Street north side of 95 Avenue
H26632 water hydrant installation and H5449 abandonment (WLRT 19110D)	EPCOR Water	156 Street north of 93A Avenue
200 Water main cased crossing installation WLRT 1913B and short abandonment at casing	EPCOR Water	93A Avenue crossing 156 Street to alley west of 156 Street
Installation of new hydrant H26654 and existing 200 CI / 200 PVC 92A Avenue alignment abandonment and hydrant relocation WLRT1913A	EPCOR Water	92A Avenue crossing 156 Street to the alley west of 156 Street
Relocated 114 M1 gas main below ZOI and abandoned existing 114 M1 ST gas main G74499	ATCO Gas	92 Avenue crossing of 156 Street
H26807 relocated in 2019	EPCOR Water	East side Meadowlark Road, south side of 91 Avenue
Abandoned 200 PVC and 150 CI water main	EPCOR Water	92 Avenue crossing of 156 Street and along the east side of 156 Street to south of the Meadowlark Drive intersection at 91 Avenue
250 Water main cased crossing relocation and along with 250 PVC water main alignment shift around casing	EPCOR Water	92 Avenue crossing of 156 Street from east side west towards alley west of 156 Street
Burial of overhead aerial power and relocation of buried power service including abandonment and removal of pole line for LRT 260085	EPCOR D&T	East side of 156 Street from south of 91 Avenue, crossing north of 91 Avenue and re-establishment of service to building SW of 92 Avenue and 156 Street



300mm Water main cased crossing relocation, main relocation, reservicing, and hydrant relocation including existing alignment abandonments WLRT1915	EPCOR Water	91 Avenue crossing 156 Street and north
Constructed 88 M1 PE gas main beneath the ZOI crossing Meadowlark Rd and abandonment of existing 88 M1 and 42 M1 gas mains including reservicing relocations (G77988 constructed 2019)	ATCO Gas	90 Avenue crossing Meadowlark Road
Hydrant relocation outside walk WLRT 1922B	EPCOR Water	West side Meadowlark Road opposite 90 Avenue
200 Water main cased crossing WLRT1922A	EPCOR Water	89 Avenue crossing Meadowlark Road
SHAW crossing relocation RPN784456	SHAW	88B Avenue crossing Meadowlark Road
Relocation of distribution power supply to Meadowlark Mall businesses east of Meadowlark Road; abandonment of existing infrastructure in the northeast corner of the intersection of Meadowlark Road and 87 Avenue including relocation of power supply to P8706 on northwest corner of intersection - W8 (260813)	EPCOR D&T	East of Meadowlark Drive north of 87 Avenue and northwest corner of Meadowlark Road and 87 Avenue and west to alley northwest of intersection
Abandonment of 12 way power duct bank along 87 Avenue including vaults MN694, MN695, MN696, MN697, MN698, MN699, MN700; relocation of duct bank system south of 87 Avenue - W7B ULA 259152	EPCOR D&T	Abandonment from east of 159 Street to east of 170 Street
Install buried power conduits W07C ULA 260815	EPCOR D&T	161 Street south of 87 Avenue
Shaw service installation	SHAW	161 Street east side, south of 87 Avenue
Abandonment of 2 ducts from MN625 north to alley west of 161 Street W7A (260814)	EPCOR D&T	161 Street and 87 Avenue into alley just west of 161 Street
Streetlight pole update East of 165 to 142 Street ULA 151172	City of Edmonton	87 Avenue, east of 165 Street to 142 Street
Abandoned 2 way power duct bank from MN698A to MN698	EPCOR D&T	West side 164 Street into 87 Avenue west of 164 Street
Installation of buried power conduits on the south side of the intersection of 170 Street and abandonment of overhead power crossing 170 Street	EPCOR D&T	East of 170 Street and south side of 87 Avenue at the intersection of 87 Avenue and 170 Street

(W05/W06) ULA 260124 and 241986		
2way duct bank	EPCOR D&T	Northeast corner of 170 Street and 87 Avenue into 87 Avenue median
Buried power duct bank connections to MN702; part of W07B to abandon existing duct bank on 87 Avenue east of 170 Street ULA 259152	EPCOR D&T	East side of 170 Street from 83 Avenue to 87 Avenue
Buried telecom and power connections to signals abandonment	TELUS/EPCOR D&T	Southeast corner of the intersection of 170 Street and 87 Avenue
Relocation of 450 AC water main in the middle of 170 Street and abandonment of valve chamber and main	EPCOR Water	Middle of 170 Street from north of 87 Avenue into 87 Avenue
Relocation of buried power ducts west of 170 Street to just west of 175 Street (W05B) ULA 261178 and including abandonment of existing power conduits	EPCOR D&T	South side 87 Avenue from 170 Street to 175 Street
H26771 (WLRT 1919A)	EPCOR Water	175 Street crossing 87 Avenue
Conduit and connection for small cell power feed installation ULA 183978 up to what is required for adjustment to accommodate curb line and walk changes	TELUS/EPCOR Technologies	East side of 178 Street onto the north side of 87 Avenue
Relocation of Shaw conduits to north of 87 Avenue via 182 Street allowing abandonment of Shaw conduits along south side 87 Avenue (RPN784350 and RPN784424)	SHAW	Construct from south of 87 Avenue on 182 Street crossing 87 Avenue; Abandonment from west of vault in southwest corner of 178 Street and 87 Avenue, along south side to 182 Street
Power conduit relocation to north side of 87 Avenue ULA 260062	EPCOR D&T	87 Avenue Steinhauer Trail to 182 Street track alignment
Streetlight and power supply replacement ULA 170461	City of Edmonton	South of 87 Avenue along Steinhauer Trail
Relocation of buried power ducts from Steinhauer Trail west and abandonment of conduits to the north side of 87 Avenue out of the ZOI, including relocation of conduits north, south, and east at the intersection of 182 Street and 87 Avenue ULA 260062-1 / DTD87A11	EPCOR D&T	Southeast side of Steinhauer Trail crossing 87 Avenue to north side 87 Avenue and west to east of 182 Street; Southwest and Northwest of 87 Avenue and 182 Street along with conduits crossing the street and 87 Avenue

Power ducts relocation from south side 87 Avenue to North side of 87 Avenue from the northwest corner of 182 Street and 87 Avenue west to 189 Street and abandonment of existing conduits within the ZOI between 182 and 189 Street DTD87A09	EPCOR D&T	Steinhauer Trail to 189 Street on 87 Avenue
300 PVC watermain casing relocation crossing of ZOI, hydrant H26773 relocation, and abandonment	EPCOR Water	East side of 182 Street from south side to north side of 87 Avenue; Hydrant east side 182 Street south of 87 Avenue
Bell crossing beneath ZOI on 182 Street	Bell	East side of 182 Street from south side to north side of 87 Avenue
168 abandoned gas main crossing 87 Avenue	ATCO Gas	East side of Decoteau Trail crossing 87 Avenue
2 abandoned 88 ST gas mains	ATCO Gas	East side of Decoteau Trail south of 87 Avenue
Abandoned 60 M1 ST gas main	ATCO Gas	North side of 87 Avenue from Decoteau Trail to 184 Street
Abandoned 60 M1 ST gas main and services	ATCO Gas	South side of 87 Avenue from 184 Street to back of lots between 187 and 188 Street
300 PVC water main cased crossing of ZOI	EPCOR Water	East side 189 Street crossing from south of 87 Avenue into 87 Avenue
Buried SHAW conduits relocated below the ZOI and existing abandoned from the west side of 189 Street crossing 87 Avenue	SHAW	West side 189 Street from south of 86A Avenue to north of 87 Avenue
Abandoned buried TELUS fibre cable	TELUS	From the southwest corner of 189 Street along 87 Avenue into the Anthony Henday TUC and southwest into the TUC towards Anthony Henday
Buried distribution power conduits 3-150mm x 1-100mm Distribution power ducts crossing below the ZOI DTD87A13 ULA 247143	EPCOR D&T	Approximately 20m West of the east TUC boundary crossing 87 Avenue
Buried City Fibre line connection to Lewis Farms fire hall and Lewis Farms bus transit centre CEF87AV02	City of Edmonton	North side of Webber Green Drive west of project limits to 199 Street then south along 199 Street to north of Pardee Bay NW crossing east through Anthony Henday TUC south of south project limit

Relocate 600mm storm sewer	EPCOR Water (Drainage)	87 Avenue - west entrance of Misericordia Hospital to west of 165 Street
Access Shaft on 1200mm Sanitary	EPCOR Water (Drainage)	87 Avenue west of west entrance to Misericordia Hospital
Access Shaft on 1200mm Sanitary	EPCOR Water (Drainage)	87 Avenue east of east entrance to Misericordia Hospital
Access Shaft on 1200mm Sanitary	EPCOR Water (Drainage)	87 Avenue at 159 Street
Access Shaft on 1200mm Sanitary	EPCOR Water (Drainage)	87 Avenue at 159 Street
450mm Sanitary Sewer	EPCOR Water (Drainage)	87 Avenue at 159 Street

**APPENDIX 28-2B**

**Incomplete City Utility Work**

<b>Description</b>	<b>Utility Company</b>	<b>Location</b>	<b>Completion (by end of)</b>
Construct 12 way Power duct bank, network vault construction and conversion (NV116 conversion to MN102A, install NV102A, NV117SW conversion to MN102B, install NV102B, install MN102C, conversion of NV118 to MN102D, install NV102D, install MN102E and NV102E) (Civil 2020)	EPCOR D&T	South side 102 Avenue, west of alley west of 103 Street to west of 107 Street	2023
Construct 9 way power duct bank - civil only to temp stub (constructed 2020) Remainder of duct bank system included in Deferred Utility Work	EPCOR D&T	102 Avenue from MN104 to east of 103 Street	2023
EPCOR NV116N duct bank and vault (Duct bank and new vaults on 103 St constructed 2019; Vault conversion constructed 2020 with partial demolition completed; equipment and cabling incomplete)	EPCOR D&T	North 102 Avenue, west of 103 Street	2023
Construct 12 way power duct bank from New MH102C to MN936 (Civil 2020)	EPCOR D&T	East side of 105 Street, south of 102 Av to north of 102 Av	2023
Construct 12 way power duct bank from NV935 to NewMH102C (Civil 2020)	EPCOR D&T	East side of 105 Street, south of 102 Av	2023

Construct 12 way power duct bank from MH106F/MN1850 to NEW MH104A/MN1856 incl MH106A/MN1855, MH106B/MN1854, MH106C/MN1853, MH106D/MN1852, MH106E/MN1851, MH106F/MN1850 (Civil completed 2019)	EPCOR D&T	East side 106 Street, north of Jasper Av to 104 Avenue	2023
2 way and 3 way telecom ducts (Civil work primarily shared with EPCOR D&T, cabling/cutovers to follow EPCOR)	TELUS	South side of 102 Avenue and alley between 105 and 106 Street	2022
Burial of aerial telecom and pole abandonments/removals (Civil work primarily shared with EPCOR D&T, cabling/cutovers to follow EPCOR)	SHAW	Alley crossing 102 Avenue between 105 and 106 Street	2022
Bell conduits installed in 2020 for fibre installation on top/beside the new EPCOR duct bank; 105 Street to west of 107 Street	Bell	102 Avenue from 105 to 107 Street	Q2-2021
Bell conduit and fibre to be installed on 102 ave West of 107 St and South on 108 St as well as South of 102 Ave on 106 St	Bell	102 ave From 107 St to west of 108 St, south on 108 St to lane N of Jasper Ave; south on 106 St to lane N of Jasper Ave	2021
Relocate/lower and abandon telecom ducts crossing trackway at alley including reservicing (Civil work primarily shared with EPCOR D&T, cabling/cutovers to follow EPCOR)	TELUS	Alley crossing 102 Avenue between 106 and 107 Street	2022
Burial of aerial telecom and pole abandonments/removals (Civil work primarily shared with EPCOR D&T, cabling/cutovers to follow EPCOR)	SHAW	Alley crossing 102 Avenue between 106 and 107 Street	2022

Construct 300 PVC water main c/w cased crossing of the trackway and reserVICING of various properties	EPCOR Water	Work remaining from ULA WLRT-2012. East side of 107 Street Crossing 102 Ave and south of 102 Ave	2021
Construct duct bank from MN1068 to New MH106B including installing MH103A and connecting to MN125 (Civil-2020)	EPCOR D&T	103 Avenue from 105 Street to 106 Street	2023
Construct power duct bank from New MH106B/MN1854 below LRT crossing of 107 Street and tying into MN123 and NV123 west of 107 Street including installation of new MH103C (Civil-2020)	EPCOR D&T	103 Avenue from alley west of 107 Street to alley west of 106 Street	2023
Construct power duct bank from New MH104A/MN1856 to MN1218 (Civil-2019)	EPCOR D&T	North side 104 Avenue, 105 to 106 Street	2023
Abandon existing vaults V503, V503A, V504, V505 and existing duct banks	TELUS	South side of 104 Avenue from 121 Street to west of 124 Street	2021
Buried TELUS infrastructure (1982 & 2016) abandon and retain as able	TELUS	East side of 121 Street crossing 104 Avenue	2021
Construct 4x100mm telecom conduit bundle from existing V502	TELUS	East side of 121 Street from south of 104 Avenue to 105 Avenue and west towards 125 Street	2021
Construct 1 -100mm telecom conduit and service vault	TELUS	North side Stony Plain Road 122 Street to alley west of 121 Street	2021
Construct 3-100mm telecom conduit bundle from proposed 105 Avenue duct bank to existing and proposed cross connects	TELUS	Along 122 Street north of 104 Avenue from 105 Avenue	2021
Construct 2-100mm telecom conduits from proposed vault on 122 Street to service vaults between 122 and 123 Street	TELUS	From 122 Street north side to service locations between 122 and 123 Street on north and south side of 104 Avenue	2021

Abandonment of lateral to signal cabinet at 122 Street	TELUS	From Alley west of 122 Street to 122 Street, south side of Stony Plain Road	2021
Buried telecom infrastructure crossing Stony Plain Road including duct installation in road right of way north of Stony Plain Road west of 122 Street to alley	TELUS/SHAW	Alley west of 122 Street crossing Stony Plain Road	2021
EPCOR ductbank crossing Stony Plain Road (W35) 263838 (to be abandoned once EPCOR internal communications cabling removed)	EPCOR D&T	Alley west of 122 Street crossing Stony Plain Road	2021
Abandon the 1-102mm, 2-102mm, and 1-102mm TELUS service conduits from V505	TELUS	Alley west of 123 Street from north side of Stony Plain Road to property on the southeast side	2021
TELUS service conduits from alley west of 123 Street, crossing beneath ZOI to reservice properties on the south side of Stony Plain Road	TELUS	Alley west of 123 Street from north side of Stony Plain Road to property on the southwest side	2021
Abandon TELUS service conduits from V506	TELUS	Alley west of 124 Street crossing Stony Plain Road to property on the southwest corner of the intersection of 124 Street and Stony Plain Road	2021
Construct 250/200 PVC water mains and hydrant	EPCOR Water	Work from ULA WLRT-2013 will continue south of Stony Plain Road on 126 St to 104 Ave and west on 104 Ave to Lane west of 126 St	2021
Construct an 89 way duct bank on 125 Street between V470 and V545 and 1x100mm conduit service to proposed vault between 124 and 125 Street	TELUS	East side of 125 Street between 104 Avenue and Stony Plain Road to vault 545 on the north side of Stony Plain Road with service conduit along the south side of 104 Avenue	2021



Aerial conversion to underground from alley south of Stony Plain Road to 126 Street and into 105 Avenue - Power including relocation or elimination of pole 50276 south (W31) 263835	EPCOR D&T	Alley between 126 and 127 Street crossing Stony Plain Road and into 126 Street and 105 Avenue with new infrastructure	2021
Aerial conversion to underground - Telecom including accommodation of pole 41961164 moving south	TELUS/SHAW	Alley between 126 and 127 Street crossing Stony Plain Road	2021
Construct 250/200 PVC water mains and hydrant south of Stony Plain Road	EPCOR Water	Work from ULA WLRT2013 will continue south of SPR on 126 St to 104 Ave and on 104 Ave between 126 St & LW of 126 St	2021
Abandonment of existing telecom buried conduits into Woodbend Place, Glenora Pointe, and Sylvancroft Lane between east of 129 and west of 127 Street (ULA 293129)	TELUS/SHAW	West side 127 Street to Sylvancroft Lane, Glenora Pointe, and Woodbend Place	2021
Installation in combination with EPCOR D&T new conduit system along the south side of 102 Avenue that replaces existing infrastructure and ties into existing services to Woodbend, Glenora Pointe, and Sylvancroft Lane (ULA 293123).	TELUS/SHAW	West side 127 Street to Sylvancroft Lane and Woodbend Place	2021
Combined buried power relocations between 127 Street and Woodbend Place (W29) including crossing of Stony Plain Road	EPCOR D&T	South side of Stony Plain road from 127 Street to West of Woodbend Place	2021
Aerial to underground conversion for telecom crossing Stony Plain Road from alley	TELUS/SHAW	Alley between 128 and 129 Street crossing Stony Plain Road	2021

between 128 and 129 Street			
Abandonment of 2-6 way TELUS duct banks (Including V-511, V-525, V-525A, V-525C, V-525B, V-525D, V-526, V-527, V-528, V-529, V-530, V-531, V-532, V-533, V-534, V-535)	TELUS	Stony Plain Road from V524 at 129 Street west to 142 Street	2021
Shaw buried conduit crossing Stony Plain Road and non-road rated vault	SHAW	Alley west of Glenora Cres crossing Stony Plain Road; vault on north east side of alley	2021
Abandon TELUS ULA 2464417 temporary buried conduit connection to V-527	TELUS	Alley west of Glenora Crescent south of Stony Plain Road to vault in the road	2021
Shaw conduits and non-road rated vault abandonment	SHAW	North side of Stony Plain Road, southeast of the alley between 131 and 132 Street	2021
Abandon/Relocate TELUS pedestal south side Stony Plain Road (connection to TELUS vault system not apparent)	TELUS	Southwest corner of the intersection of 132 Street and Stony Plain Road	2021
Relocate TELUS pedestal and conduit system south of Stony Plain Road	TELUS	104 Avenue and 132 Street south of Stony Plain Road	2021
Aerial telecom burial below ZOI crossing Stony Plain Road including removal/relocation of poles including lateral abandonment of telecom to Vault V529	TELUS/SHAW	Alley west of 133 Street crossing Stony Plain Road	2021
Construct PVC water mains and reconnection of services north of SPR	EPCOR Water	Work from ULA's WLRT2004, WLRT 2005 & WLRT 2006 will continue between LW 133 St & LW136 St and between 105 Av to north of SPR	2021
Aerial telecom burial below ZOI crossing Stony Plain Road including	TELUS/SHAW	136 Street crossing Stony Plain Road	2021

removal/relocation of poles			
Construct new TELUS buried duct banks and abandon buried conduit connections between pole line north of Stony Plain Road and V532	TELUS	North side Stony Plain Road at alley west of 136 Street	2021
Aerial telecom burial below ZOI crossing Stony Plain Road including removal/relocation of poles and buried conduit abandonments with vault V533	TELUS	Alley east of 138 Street crossing Stony Plain Road	2021
Buried TELUS conduits from vault V531 abandonment/relocation	TELUS	North side of Stony Plain Road, in the alley west of 135 Street	2021
Abandon buried telecom conduits from poles north of Stony Plain Road to vault V534	TELUS	Alley west of 138 Street crossing Stony Plain Road	2021
Aerial power burial including removal/relocation of poles (W19) to facilitate alley realignment 263826	EPCOR D&T	Alley east of 139 Street south of Stony Plain Road	2021
Aerial telecom burial including removal/relocation of poles and servicing of pedestal and properties; as well as to facilitate alley realignment	EPCOR D&T	Alley east of 139 Street south of Stony Plain Road and along the south side of Stony Plain Road to 102 Avenue	2021
Telecom installation of conduits on 103 Avenue, 139 Street, crossing Stony Plain Road, and along 102 Avenue to abandon existing Stony Plain Road duct banks	TELUS	103 Avenue from east of 139 Street to 139 Street, south on 139 Street crossing Stony Plain Road, to 102 Avenue and along Stony Plain Road between 142 and 136 Street	2021

Abandonment of buried ducts servicing the property north of Stony Plain Road between 139 and 140 Street including relocation of existing vault V535, cross connect and pedestals (1-102mm, 5-100mm, 2-38mm conduits)	TELUS	North side of Stony Plain Road between 139 and 140 Street	2021
Aerial Shaw to buried conduits RPN784445	Shaw	97 Avenue crossing 156 Street	2021
4-100 HDPE telecom conduit crossing below 156 Street ZOI and abandonment of existing conduits	TELUS	92 Avenue crossing of 156 Street	2021
Telecom duct bank relocation via vaults V2838 and V2839, including reconnections and relocations of pedestals, cross connects and abandonment of 8-89mm telecom BFD duct bank including vault V2840 and cross connect on 87 Avenue (ULA 2746012)	TELUS	Meadowlark Road from 89 Avenue to south of 87 Avenue; 89 Avenue crossing beneath Meadowlark Road ZOI	2021
Abandonment of 168 IP5 ST/219 IP5 ST gas main on 159 Street to south of alley north of 87 Avenue and 87 Avenue east of 165 Street; replacement with new IP5 main in M1 alignment	ATCO Gas	South of 87 Avenue on 159 Street to 87 Avenue and west along 87 Avenue to 165 Street	2021
Burial of aerial Shaw and EPCOR D&T power (W7A 260815) (RPN784395)	Shaw & EPCOR D&T	East side 161 Street from alley south of 87 Avenue across 87 Avenue into alley west of 161 Street on the north	2021
Abandonment of 2 ducts from MN625 north to alley west of 161 Street	EPCOR D&T	161 Street and 87 Avenue into alley just west of 161 Street	2021
88 M1 Gas main realignment and lowering below ZOI and	ATCO Gas	161 Street crossing 87 Avenue to alley west of 161 Street	2021

abandonment of existing crossing			
Relocation of IP5 gas main into the alley north of 87 Avenue between 163 Street and alley east of 163 Street including abandonment of 219 IP5 ST gas main on 163 Street	ATCO Gas	163 Street crossing from 87 Avenue into 163 Street	2021
Relocation of 750 CCP transmission water main including connections to existing distribution mains at 163 Street and 165 Street along with abandonment of existing main and valve chambers	EPCOR Water	Along 87 Avenue from west of 165 Street to east side of 163 Street	Q2-2021
Installation of a new IP5 gas main in the former alignment of the 168 M1 ST gas main and abandonment of that 168 M1 ST gas main from 165 Street into alley east of 165 Street and abandonment of 114 IP5 ST gas main in alley	ATCO Gas	87 Avenue from 165 Street to alley east of 165 Street; alley north of 87 Avenue and east of 165 Street	2021
Relocation of 42 M1 ST/ 88 M1 ST gas main servicing properties from back along 87 Avenue north to front of properties into 87A Avenue and abandonment of main and services along 87 Avenue and west side of 178 Street	ATCO Gas	North side of 87 Avenue from 178 to alley east of 182 Street and north along west side of 178 Street moved into 87A Avenue west of 178 Street	2021
168 IPT ST gas crossing below ZOI	ATCO Gas	Southwest side of 182 Street crossing 87 Avenue on 182 Street	2021
168 IPT ST gas relocation to north of ZOI and abandonment to Regulator Station 194 within/south of ZOI AGS87A11	ATCO Gas	Between east of 189 Street and 182 Street. South side 87 Avenue west of 182 Street to Regulator Station No 194	2021

168 M1 PE gas main relocation to north of ZOI and abandonment to Regulator Station 194 within/south of ZOI AGS87A11A	ATCO Gas	Between Decoteau Trail and 189 Street; West of Decoteau Trail from south side to north side 87 Avenue including crossing 87 Avenue at Decoteau Trail	2021
114 M1 PE gas main realignment reconnection to Regulator Station No 194 or relocated 219 M1 gas main	ATCO Gas	From south side 87 Av at Regulator Station between 188 and 187 Street crossing 87 Avenue to westbound road lanes and heading west to 189 Street to reconnect with existing 114 main	2021
Relocate gas service to church at 19010-87 Avenue bordering the Anthony Henday TUC on the north side of 87 Avenue from an extension of an existing service or installation of new main and service line west of 189 Street in 87 Avenue and abandonment of existing service on 87 Avenue AGS87A16	ATCO Gas	87 Avenue west of 189 Street	2022
Gas main relocation to 86A Avenue between 188 and west of 190A Street and reservicing of properties from the front of lot; abandoning the 168 M1 ST / 60 M1 ST gas mains and services from the rear of properties along the south side of 87 Avenue to the TUC AGS87A14A	ATCO Gas	188 Street to west of 190A Street on 86A Avenue with abandonments on the south side of 87 Avenue from east of 188 Street to the Anthony Henday TUC	2022
Buried power ducts relocation to north side 87 Avenue and abandonment of existing ducts within the ZOI from west side of 189 Street into the Anthony Henday TUC ULA260209 and including power duct	EPCOR D&T	East side 189 Street into the Anthony Henday TUC on 87 Avenue and within the Anthony Henday TUC east of Anthony Henday	Q4-2021

crossing of 87 Avenue west of 189 Street DTD87A13A			
Aerial 72 kV transmission power (WETUP)	EPCOR D&T	East side Anthony Henday TUC crossing 87 Avenue	Q4-2021
Abandon 825/900mm Combined Sewer	EPCOR Water (Drainage)	Lane West of 136 Street to 132 Street	Q3, 2022
Abandon 300/600mm Combined Sewer	EPCOR Water (Drainage)	Lane West of 136 Street to Connaught Drive	Q3, 2022
Construct 1050mm Combined Sewer	EPCOR Water (Drainage)	Lane West of 136 Street to Connaught Drive	Q3, 2022
Construct 200mm Sanitary Sewer	EPCOR Water (Drainage)	Stony Plain Road at 136 Street	Q3, 2022
Replace/Case 200mm Storm Sewer	EPCOR Water (Drainage)	Stony Plain Road at 136 Street	Q3, 2022
Replace/Case 250mm Combined Sewer	EPCOR Water (Drainage)	Stony Plain Road at Lane east of 136 Street	Q3, 2022
Replace/Case 600mm Storm Sewer	EPCOR Water (Drainage)	Stony Plain Road at 135 Street	Q3, 2022
Replace/Case 250mm Combined Sewer	EPCOR Water (Drainage)	Stony Plain Road at Lane east of 135 Street	Q3, 2022
Replace/Case 250mm Combined Sewer	EPCOR Water (Drainage)	Stony Plain Road at Lane east of 134 Street	Q3, 2022
Replace/Case 250mm Combined Sewer	EPCOR Water (Drainage)	Stony Plain Road at Lane east of 133 Street	Q3, 2022
Replace/Case 250mm Combined Sewer	EPCOR Water (Drainage)	Stony Plain Road at Lane east of 132 Street	Q3, 2022
Replace/Case 250mm Combined Sewer	EPCOR Water (Drainage)	Stony Plain Road at Lane west of Connaught Drive	Q3, 2022
Relocate 600mm Combined Sewer	EPCOR Water (Drainage)	Stony Plain Road at 129 Street	Q3, 2022
Relocate 250mm Combined Sewer (install 300mm Combined Sewer)	EPCOR Water (Drainage)	Stony Plain Road - 129 Street to Sylvancroft Lane	Q3, 2022
Relocate 375/600/675mm Combined Sewer	EPCOR Water (Drainage)	Stony Plain Road - 127 Street to 121 Street	Q3, 2022
Replace/Case 250mm Combined Sewer	EPCOR Water (Drainage)	Stony Plain Road at Lane east of 127 Street	Q3, 2022
Replace/Case 250mm Combined Sewer	EPCOR Water (Drainage)	Stony Plain Road at Lane east of 126 Street	Q3, 2022

Install 200mm Combined Sewer	EPCOR Water (Drainage)	Stony Plain Road - 126 Street to 125 Street	Q3, 2022
Abandon/Relocate 250mm Combined Sewer	EPCOR Water (Drainage)	Stony Plain Road at lane east of 125 Street	Q3, 2022
Replace/Case 250mm Combined Sewer	EPCOR Water (Drainage)	Stony Plain Road at Lane east of 124 Street	Q3, 2022
Replace/Case 250mm Combined Sewer	EPCOR Water (Drainage)	Stony Plain Road at Lane east of 123 Street	Q3, 2022
Install 1200mm Combined Sewer	EPCOR Water (Drainage)	104 Avenue - 121 Street to east of 114 Street	Q3, 2022
Install 600/1200mm Combined Sewer	EPCOR Water (Drainage)	104 Avenue - East of 114 Street to west of 109 Street	Q3, 2022



**APPENDIX 28-2C**

**Deferred Utility Work**

<b>Description</b>	<b>Utility Company</b>	<b>Location</b>
Unknown lines	Various utilities	Entire alignment as noted on reference drawings
Hydrant abandonments and hydrant relocations	EPCOR Water	Entire alignment except where indicated as addressed
Water, gas, telecom and power services	EPCOR D&T, EPCOR Water, ATCO Gas, TELUS SHAW, Rogers	Entire alignment; conflicts as identified by Project Co
Abandon 406 Water main abandonment and reservicing of properties	EPCOR Water	Middle of 102 Avenue from east of 103 Street to west side of 107 Street
Abandon 6way /9 way power duct bank, MN116, MN117, MN935, MN118, MN119	EPCOR D&T	Middle of 102 Avenue from east of 103 to west of 107 Street
Abandon 12 way /20 way/ 12 way power duct bank incl MN1207, MN1206, MN1212, MN1211, MN1210	EPCOR D&T	North side 102 Avenue from east of 103 Street to east of 106 Street
Abandon 300 PVC/200AC/CI water main including, hydrant H225 (relocation), transmission connection, services at 103 Street	EPCOR Water	102 Avenue, 103 Street west to 105 Street
Install new service to Revillon Building from 103 Street and complete internal re-route of water service inside building and hydrant H225 relocation	EPCOR Water	103 Street north of 102 Avenue
Case 508 water main and relocate hydrant and service to building to Northwest of 103 Street/102 Avenue; abandon valve chamber	EPCOR Water	Middle of 103 Street crossing the 102 Avenue trackway and hydrant and service relocation
Lower 168 M1 ST Gas main	ATCO Gas	103 Street, crossing from north to south side of 102 Avenue
Abandon 168 M1 ST Gas main	ATCO Gas	103 Street, crossing from north to south side of 102 Avenue
Construct 12 way power duct bank (recable and reconnect cabling) from MH103W to NV116/MH102A	EPCOR D&T	South side of 102 Avenue from 103 Street to alley west of 103 Street
Construct 12 way power duct bank and vault along west side of 103 Street MH103W	EPCOR D&T	West side of 103 Street from south of 102 Avenue through to north of 102 Avenue
Construct 9 way power duct bank and vault MH103E along east side 103 Street	EPCOR D&T	East side of 103 Street from south of 102 Avenue to new MH1225

168 M1 Gas main relocation (if required)	ATCO Gas	South side 102 Avenue from alley west of 103 Street to 102 Street
Abandon 12 way power duct bank and MN1213	EPCOR D&T	East side of 103 Street from south of 102 Avenue to new MN1225
Abandon two 150mm PVC water services to The Ten	EPCOR Water	West of alley between 104 and 105 Street; south side of 102 Avenue
Construct duct crossing for future servicing of lot W281 from NV2030	EPCOR D&T	West of alley between 104 and 105 Street; north side of 102 Avenue
Abandon water service to YMCA	EPCOR Water	West of alley between 104 and 105 Street; north side of 102 Avenue
Abandon NV117N to a manhole and retain power service to YMCA	EPCOR D&T	North side of 102 Avenue west of alley between 104 and 105 Street
Construct 12 way power duct bank with telecom ducts added below ZOI	EPCOR D&T	Alley between 104 and 105 Street; crossing 102 Avenue
Abandon 9 way power duct bank crossing 102 Av to NV117N	EPCOR D&T	West of alley between 104 and 105 Street; crossing 102 Avenue
Abandon 6 way power duct bank crossing 102 Av in alley west of 104 Street	EPCOR D&T	Alley between 104 and 105 Street; crossing 102 Avenue
Relocate/lower telecom ducts crossing trackway at alley (Civil in coordination with EPCOR D&T)	TELUS, and SHAW	Alley between 104 and 105 Street; crossing 102 Avenue
Aerial to underground conversion of telecom (supports and pole crossing 102 Avenue in alley west of Fox Tower)	TELUS/SHAW	Alley between 104 and 105 Street crossing 102 Avenue
Telecom duct bank lowering	SHAW	102 Avenue, alley between 103 and 104 Street
TELUS reservicing across trackway and duct bank lowering	TELUS	102 Avenue, alley between 103 and 104 Street
Power conduit between NV117SE and MN117	EPCOR D&T	South side of 102 Avenue at alley east of 104 Street
Update NV117SE with new lids and refinish concrete walls	EPCOR D&T	South side of 102 Avenue east of alley east of 104 Street
Fox Tower power service (ULA 21072) relocation	EPCOR D&T	North side of 102 Avenue west of 104 Street to alley west of 104 Street
Case 200mm PVC / 200mm CI water main, Relocate H226	EPCOR Water	East side of 104 Street crossing 102 Avenue
Lower 3 way duct telecom service from V009 to west and north	TELUS	V009 south side 102 Avenue at alley west of 103 street to building north and west, crossing 102 Avenue

Telecom service from V009B to southwest	TELUS	V009B, southside 102 Avenue at alley west of 103 Street to building southwest of vault
Lower 2 way telecom service from V009B to north	TELUS	V009B, southside 102 Avenue at alley west of 103 Street to building northeast of vault
Construct new duct bank from replacement manhole NV116 to north	EPCOR D&T	South side of 102 Avenue alley west of 103 Street crossing 102 Avenue
Abandon 6 duct bank from NV116 to north	EPCOR D&T	South side of 102 Avenue alley west of 103 Street crossing 102 Avenue
Install new water service to The Ten and replumb within building	EPCOR Water	105 Street south of 102 Avenue
Install new water service to YMCA and replumb within building	EPCOR Water	105 Street north of 102 Avenue
300mm PVC water main and casing crossing 102 Avenue	EPCOR Water	West side of 106 Street crossing 102 Avenue
Construct new 9 way duct bank from converted network vault into new manhole 102D both north to MN155 and south to MN145	EPCOR D&T	South side of 102 Avenue alley west of 105 Street crossing and north/south of 102 Avenue
Abandon 9 way duct bank from MN118 to north	EPCOR D&T	South side of 102 Avenue alley west of 105 Street crossing and north/south of 102 Avenue
Burial of aerial telecom and pole abandonments/removals	SHAW	Alley crossing 102 Avenue between 105 and 106 Street
2 way and 3 way telecom ducts	TELUS	South side of 102 Avenue and alley between 105 and 106 Street
Relocate/lower and abandon telecom ducts crossing trackway at alley including vault relocation and abandonment	BELL	Alley crossing 102 Avenue between 105 and 106 Street
Relocate/lower and abandon telecom ducts crossing trackway at alley including vault relocation and abandonment	SHAW	Alley crossing 102 Avenue between 105 and 106 Street
Abandon 9 way power duct bank crossing 102 Av from North of 102 Av to NV935	EPCOR D&T	East side of 105 Street crossing 102 Avenue from north to south of 102 Av
Lower 323 IP5 ST Gas main	ATCO Gas	105 Street crossing 102 Avenue
Abandon 9 way duct bank from MN147 south of 102 Avenue to MN156 north	EPCOR D&T	South of 102 Avenue alley west of 106 Street crossing and north/south of 102 Avenue
Burial of aerial telecom and pole abandonments/removals	SHAW	Alley crossing 102 Avenue between 106 and 107 Street
Relocate/lower and abandon telecom ducts crossing trackway at alley including reservicing	SHAW	Alley crossing 102 Avenue between 106 and 107 Street

Relocate/lower and abandon telecom ducts crossing trackway at alley including reservicing	TELUS	Alley crossing 102 Avenue between 106 and 107 Street
Construct new 9 way duct bank from converted network vault into new manholes on south side 102 Av; both north and south of 102 Av	EPCOR D&T	South of 102 Avenue alley west of 106 Street crossing and north/south of 102 Avenue
Abandon 9 way duct bank from MN119 north to NV119 including abandonment of NV119	EPCOR D&T	Middle of 102 Avenue west of alley west of 106 Street to north side of 102 Avenue
Construct new network power vault (EPCOR may no longer be pursuing this)	EPCOR D&T	103 Avenue, east of alley west of 106 Street
Construct new network power vault (EPCOR may no longer be pursuing this)	EPCOR D&T	103 Avenue, west of alley west of 105 Street
Construct new network power vault (EPCOR may no longer be pursuing this)	EPCOR D&T	103 Avenue, east of alley east of 105 Street
Overbuild 4-6 new ducts connecting to MN129 and MN153 east of 105 Street	EPCOR D&T	103 Avenue, alley east of 105 Street
Abandon 9 way power duct bank between MN124 and MN123	EPCOR D&T	103 Avenue from alley west of 107 Street to alley west of 106 Street
3 ducts under ZOI into alley	City of Edmonton	Alley west of 108 Street crossing 104 Avenue
Construct 750mm transmission watermain c/w cased crossing	EPCOR Water	108 Street south side of 104 Avenue crossing the tracks, west along north side of 104 Avenue onto 109 Street and north onto 105 Avenue
Abandon 762 STL Transmission Watermain in tunnel and valve chamber/tunnel access	EPCOR Water	108 Street crossing 104 Avenue
60/114 M1 PE Gas Main	ATCO Gas	alley west of 107 Street into south side of 104 Avenue
9 way telecom duct bank	TELUS w/ SHAW	Alley west of 107 Street crossing 104 Avenue
Construct power duct bank between new MH104A/MN1856 and MN177 including construction of New MH's MH104B and MH104C and expansion of MN176 (263470)	EPCOR D&T	104 Avenue from 106 Street to east of alley east of 108 Street
Abandon 9 way power duct bank from MN176 to MN177	EPCOR D&T	Southside 104 Avenue, east of alley east of 107 Street to alley east of alley east of 108 Street
Buried telecom ducts and vault (lower or abandon)	SHAW	West side 109 Street crossing 104 Avenue
Abandon 300mm PVC watermain	EPCOR Water	104 Avenue from 108 Street to 109 Street

Construct 300mm PVC watermain including cased crossing	EPCOR Water	104 Avenue from 108 Street to 109 Street
RPN-784575 - 104 Ave and 117 St relocate / lower and abandon crossing of 104 Ave	SHAW	Alley crossing of 104 Ave east of 117 St
Relocate 2-102mm TELUS/SHAW ducts and relocate pedestal out of retaining wall/back of walk	TELUS/SHAW	Alley west of 116 Street and 104 Avenue, crossing 104 Av
MN393 and duct bank to the south (abandon)	EPCOR D&T	Intersection of 116 Street and 104 Avenue, running south of 104 Av
Relocate buried power conduits from northeast side of 116 Street crossing 116 Street running along the north side of 104 Avenue including crossing 104 Avenue at alley west of 117 Street (W37-W38) and tying into W36	EPCOR D&T	Northeast side of 116 Street crossing 116 Street running along the north side of 104 Avenue along with crossing 104 Avenue at the alley west of 117 Street
Aerial conversion to underground - Power (W33) 263837	EPCOR D&T	Alley between 123 and 124 Street crossing Stony Plain Road
273 M1 ST Gas Main crossing lowering (AGSSPR03)	ATCO Gas	Alley between 123 and 124 Street crossing Stony Plain Road
EPCOR Transformer (possible relocation to accommodate pedestrian traffic on south side Stony Plain Road with road conversion)	EPCOR D&T	South side Stony Plain Road between 123 and alley west of 123 Street
Shaw Vault east of the alley west of 123 Street conversion to road worthy vault	SHAW	East side of the alley west of 123 Street, north side of Stony Plain Road
Shaw buried conduit from vault west of 123 Street to west of 122 Street	SHAW	North side Stony Plain Road from vault east of alley west of 123 Street to handhole west of 122 Street
Hydrant 26856 to be relocated to tree line (City reimbursable to EPCOR)	EPCOR Water	Alley west of 122 Street crossing Stony Plain Road
914mm Transmission Watermain replacement with thicker wall steel pipe and cathodic protection and elimination of distribution connections	EPCOR Water	Middle of 123 Street crossing Stony Plain Road
Aerial conversion to underground - Telecom	TELUS/SHAW	Alley between 125 and 126 Street crossing Stony Plain Road
Aerial conversion to underground - Power (W32) 263836	EPCOR D&T	Alley between 125 and 126 Street crossing Stony Plain Road
TELUS buried conduits south of vault V507 crossing Stony Plain Road lower under ZOI	TELUS	Alley west of 125 Street crossing from north to south side Stony Plain Road

Proposed service relocation for TELUS and Shaw	TELUS/SHAW	South side of Stony Plain Road from the alley west of 125 Street to property on the south side of Stony Plain Road
Telecom services from pole 41061188 to property east of alley west of 125 Street	TELUS/Shaw	Alley west of 124 Street crossing Stony Plain Road
Aerial power primary service to Groat Road streetlighting on west side of Groat Road; lateralling down pole on south side of Stony Plain Road to west Groat Road Streetlights (W26) 263832	EPCOR D&T	Alley west of Groat Road, crossing Stony Plain Road to the northeast corner of Connaught Drive and onto Groat Road
Abandon 60 M1 PE gas main west of service west of Woodbend Place	ATCO Gas	South side Stony Plain Road west of Woodbend Place
60 M1 PE gas main lowering under ZOI (AGSSPR08) and abandonment of existing crossing	ATCO Gas	Alley between 128 and 129 Street crossing Stony Plain Road
Aerial (W25) power - bury crossing, shift/eliminate poles and relocate anchors to avoid VLW work, install buried crossing below ZOI 263831	EPCOR D&T	Alley west of Glenora Cres crossing Stony Plain Road
88/114 M1 PE - Lower below ZOI crossing Stony Plain Road (AGSSPR11)	ATCO Gas	Alley west of Glenora Crescent crossing Stony Plain Road
Aerial (W23 and 24) power - bury crossing, shift/eliminate poles and relocate anchors to avoid VLW work, install buried crossing below ZOI. W23 crossing to be buried, consolidating with W24. W24 crossing to be eliminated	EPCOR D&T	Alley west (W23) of 134 Street crossing Stony Plain Road and (W24) west of 133 Street crossing Stony Plain Road
Telecom connection to traffic signals	TELUS	West side 134 Street south side Stony Plain Road
Eliminate Aerial power crossing Stony Plain Road including removal/relocation of poles (W24) in conjunction with W23	EPCOR D&T	Alley west of 133 Street crossing Stony Plain Road
Conversion of Shaw vault from non-road rated to road rated	SHAW	North side of Stony Plain Road between 133 and 134 Street
Relocation of poles and/or anchors to avoid conflict with revised walk	TELUS/SHAW/ EPCOR D&T	Alley west of 135 Street north side of Stony Plain Road
Power vault MN401 (possible vault roof lowering)	EPCOR D&T	136 Street north side Stony Plain Road
Lowering 4-way power duct bank crossing Stony Plain Road beneath ZOI - Between MN400 and MN634 (W21-B). EPCOR believe it is deep enough to remain in place.	EPCOR D&T	136 Street crossing Stony Plain Road
Aerial telecom burial below ZOI crossing Stony Plain Road including removal/relocation of poles	TELUS/SHAW	136 Street crossing Stony Plain Road

9-way duct bank between MN400 and MN401 (W21-A). EPCOR believe it is deep enough to remain in place.	EPCOR D&T	North side Stony Plain Road between 136 and alley west of 136 Street
Power vault MN400 (possible vault roof lowering)	EPCOR D&T	136 Street north side Stony Plain Road
Abandon 150 CI and 20 COP watermain crossing Stony Plain Road	EPCOR Water	Crossing of Stony Plain Road at alley east of 138 St.
Construct 200mm cased water main crossing Stony Plain Road	EPCOR Water	Alley west of 138 Street crossing Stony Plain Road to alley south of Stony Plain Road east of 139 Street
Telecom connection to traffic signals	TELUS	West side 138 Street south side Stony Plain Road
168 M1 ST and 168 M1 PE alignment and elevation lowerings to cross Stony Plain Road ZOI including abandonment of existing crossing and service reinstallation along with crossing on 142 Street (AGSSPR12B)	ATCO Gas	Alley south east of Stony Plain Road and 139 Street to the west side of Stony Plain Road and 139 Street to 142 Street and on the east side of 142 Street into alley north of Stony Plain Road
200mm PVC water main and H2480	EPCOR Water	South of Stony Plain Road, in alley east of 142 Street
Buried telecom conduit connection to signals cabinet	TELUS	Southeast porkchop of the intersection of Stony Plain Road and 142 Street
Buried power and telecom connections to signal cabinet	TELUS/ EPCOR D&T	West side 147 Street north of Stony Plain Road
Buried power and telecom connections to signal cabinet	TELUS/ EPCOR D&T	Southeast corner of 149 Street and Stony Plain Road
Buried telecom connections to hand hole	TELUS	Southwest corner of 153 Street and Stony Plain Road
Buried power and telecom connections to signal cabinet	TELUS/ EPCOR D&T	Northeast corner of 151 Street and Stony Plain Road
Abandoned buried telecom conduits	TELUS	West side 156 Street from north of Stony Plain Road to the alley south of Stony Plain Road
Buried power and telecom connections to signals	TELUS	Northwest corner of 156 Street and 99 Avenue
Aerial telecom pole and anchors in conflict with proposed alley	TELUS/SHAW	Alley between 100A and 100 Avenue west of 156 Street
Aerial power pole and anchors in conflict with proposed alley	EPCOR D&T	Alley between 100A and 100 Avenue west of 156 Street
1-102mm buried telecom service to northeast from vault V2838	TELUS	Northeast corner of Meadowlark Road and 90 Avenue

Case 750 hyprescon water main crossing Meadowlark Road on 87 Avenue	EPCOR Water	north side of 87 Avenue crossing the intersection with Meadowlark Road
Hydrant H16680 relocation east beside future bus stop	EPCOR Water	South side 87 Avenue between 159 Street and alley east of 159 Street
Install cased crossing of 200 PVC water main crossing Meadowlark Road from new 300 PVC watermain	EPCOR Water	South of 88A Avenue crossing Meadowlark Road
Relocate 300 PVC water main west of the ZOI including adding a cased crossing of Meadowlark Road on the north side of 87 Avenue and reconnection to existing 250 PVC watermain on 87 Avenue	EPCOR Water	Meadowlark Road south of 88A Avenue and 87 Avenue
Hydrant H5083 relocation	EPCOR Water	South side of 87 Avenue west of 161 Street
Hydrant H5081 relocation	EPCOR Water	South side of 87 Avenue east of 164 Street
Buried telecom connections to signals	TELUS	Alley west of 163 Street from alley north of 87 Avenue to 87 Avenue
Buried telecom connections to signals	TELUS	West side 163 Street from alley north of 87 Avenue to 87 Avenue
Hydrant at NW corner of intersection 163 Street and 87 Avenue	EPCOR Water	NW corner of intersection of 163 Street and 87 Avenue
Hydrant H5082 relocation	EPCOR Water	South side of 87 Avenue at 163 Street
Buried 1-102mm HDPE conduit service	TELUS	North side 87 Avenue from alley east of 165 Street to property on northwest corner of 165 Street and 87 Avenue
Relocate 88 IP5 PE gas main into 87 Avenue and to reservice the Misericordia Hospital	ATCO Gas	West side 165 Street in 87 Avenue and into new roadway access to the Misericordia Hospital to be build by Project Co
Buried power and telecom conduits from pole 05144 in alley south of 165 Street for the 165 Street 87 Avenue intersection	TELUS/EPCOR D&T	Alley south of 165 Street and west of 165 Street crossing 87 Avenue
Hydrants H5581 and H5080	EPCOR Water	South and north side of 87 Avenue between the alley east of 165 Street and 165 Street
Buried telecom and power connections to signals	TELUS/EPCOR D&T	Southwest corner of the intersection of 170 Street and 87 Avenue



60 M1 ST /42 M1 ST gas main and services relocations (southside service between 170 and 172 Street, multiple southside services west of 172 Street to 174 Street, multiple southside services between 175 and 176A Street G78229 with relocation of mains to the front of houses from the rear)	ATCO Gas	South side 87 Avenue from west side of 170 Street to west side of 178 Street
Shaw buried conduit south side 87 Avenue 170 Street and west including vault conversion at 175 Street to road worthy vault if conduits can be retained	SHAW	East side of 170 Street along the south side of 87 Avenue to the west side of 187 Street
Power conduits from west end of ULA 261178 to east end of ULA 260062-1 along the south side of 87 Avenue including S7773	EPCOR D&T	Power on south side of 87 Avenue from west of 175 Street to east of Steinhauer Trail
Power service to existing bus terminal	EPCOR D&T	Conduit crossing 87 Avenue from south side 87 Avenue to bus terminal east of 175 Street
TELUS buried conduit crossing 87 Avenue Small Cell (ULA 183978)	TELUS/EPCOR Technologies	West of 172 Street crossing 87 Avenue
TELUS buried conduit crossing 87 Avenue Small Cell (ULA 183978)	TELUS/EPCOR Technologies	South side of 87 Avenue from east of 175 Street to west of 175 Street
168 IP2 PE / 114 IP2 PE gas main relocation (service to West Edmonton Mall) from Regulating Station 188 including service to existing bus terminal	ATCO Gas	North side of 87 Avenue west of Arrowhead Trail to west of 175 Street and the regulating station No. 188
Shaw buried crossing of 87 Avenue along west side 178 Street	SHAW	West side of 178 Street crossing 87 Avenue to streetlight pole 14968 on the northeast corner of 178 Street and 87 Avenue
Power conduits crossing 87 Avenue west of 178 Street including S7773	EPCOR D&T	From switching cubicle in the southwest corner of 87 Avenue and 178 Street crossing 87 Avenue and running along the west side of 178 Street
Shaw buried crossing 87 Avenue including existing vault at SE corner of 178 Street	SHAW	From vault in the southwest corner of 87 Avenue and 178 Street crossing 87 Avenue and running along the west side of 178 Street

Conduit and connection for small cell power feed installation ULA 183978 adjustment to accommodate curb line and walk changes	TELUS/EPCOR Technologies	East side of 178 Street onto the north side of 87 Avenue
1050 CCP transmission water main crossing (protection to be added based upon retention of the main in operation. Integrity analysis being initiated in 2020 to confirm mitigation)	EPCOR Water	Decoteau Trail crossing 87 Avenue
60 M1 ST / 42 M1 ST north side of 87 Avenue and services relocation into 87A Avenue including services to service the from the properties to the north; including connection to proposed new medium pressure gas main along 87 Avenue AGS87A05A	ATCO Gas	87A Avenue Between 184 and 189 Street north side of 87 Avenue
114 M1 PE gas main north side of 87 Avenue	ATCO Gas	North side of 87 Avenue north into 189 Street
Relocation of 168 M1 PE gas main to connect with existing 42 M1 ST gas main running along the north side of 87 Avenue east of 188 Street (future connection for relocation of north 87 Avenue services via deferred item) AGS87A11A	ATCO Gas	South side of 87 Avenue between 188 and 187 Street crossing to north side 87 Avenue and public utility lot south of 87A Avenue
Gas line	ATCO Gas	South of 87 Avenue between Anthony Henday SE Ramp and east TUC boundary
Aerial 72 kV transmission power (WETUP)	EPCOR D&T	East side Anthony Henday TUC crossing 87 Avenue
750 CCP transmission water main crossing (protection to be added based upon retention of the main in operation. Integrity analysis being initiated in 2020 to confirm mitigation)	EPCOR Water	East side Anthony Henday TUC crossing 87 Avenue
New water for LFSF and abandonments (work within TUC/Road Right of Way)	EPCOR Water	LFSF
G88 IP5 PE gas main relocation from 114 IP5 PE west of west TUC boundary on Webber Green Drive to 88 IP5 PE line on 199 Street north of Webber Greens Drive and abandonment along 199 Street north of Webber Green Drive to south of LFSF	ATCO Gas	Webber Greens Drive west of 199 Street to 199 Street and north; Abandon from north side Webber Greens Drive to south project limit along 199 Street
Relocation of aerial distribution power to eliminate ZOI and LFSF conflicts including retention of connection in an alignment to be negotiated with EPCOR D&T (260205)	EPCOR D&T	East side 199 Street from south project limit to north project limit

**APPENDIX 28-2D**

**Pipeline Work**

<b>Description</b>	<b>Pipeline Company</b>	<b>Location</b>
Pipeline Crossing	Trans-Mountain Corporation	Gerry Wright OMF
Pipeline Crossing	ATCO Pipelines	Gerry Wright OMF
Pipeline Crossing	Pembina Pipeline	Gerry Wright OMF
Pipeline Crossings	Plains Midstream	Gerry Wright OMF
Work in proximity to pipelines	ATCO Pipelines	Gerry Wright OMF
Work in proximity to pipelines	Keyera Pipelines	Gerry Wright OMF
Abandoned Pipeline Crossings	Legal Oil and Gas administered by the Alberta Energy Regulator and Orphan Well Association	TUC
Pipeline Crossing	ATCO Pipelines	TUC

**APPENDIX 28-2E**

**Existing Utility Agreements**

<b>Utility Company</b>	<b>Date</b>	<b>Agreement</b>
Zayo Canada Inc. (formerly MTS Allstream)	15 March 2016 (21 September 2009)	Rights of Way Consent and Access Agreement
Telus Communications Inc.	20 November 2012	Rights of Way Consent and Access Agreement
Bell Canada	5 July, 2016	Municipal Access Agreement
Rogers Communications Canada Inc.	January 22, 2019	Non-Standard Rights of Way Consent and Access Agreement
Shaw Cablesystems Ltd.	11 September 2012	Rights of Way Consent and Access Agreement
EPCOR Distribution & Transmission Inc. (Distribution Power)	1 January 2004	Franchise Agreement
EPCOR Distribution & Transmission Inc. (Transmission Power)	22 November 2017	Rights of Way Consent and Access Agreement
ATCO Gas	Not Dated	Natural Gas Distribution System Franchise Agreement
EPCOR Water Services Inc.	1 January 2020	Water Services Franchise Agreement
EPCOR Water Services Inc.	1 September 2017	Drainage Services Franchise Agreement
Atco Pipelines Ltd.	Not Dated	Natural Gas Distribution System Franchise Agreement
Pembina Pipeline Corporation	8 March 2006	Master Crossing Agreement
Keyera Energy Ltd.	7 July 1997	Master Facility Crossing Agreement

**APPENDIX 28-2F**

**Utility Company Contact Particulars**

<b>Company</b>	<b>Contact</b>	<b>Address</b>	<b>Phone Number / Email</b>
EPCOR D&T (Distribution)  (107 Street East)	██████████  Manager, Downtown Engineering	EPCOR Distribution & Transmission Inc. 12116-107 Street Edmonton, AB T5G 2S7	<a href="mailto:">mailto:</a> ██████████ ██████████
EPCOR D&T (Distribution)  (West of 107 Street)	██████████  Manager, Franchise Engineering	EPCOR Distribution & Transmission Inc. 12116-107 Street Edmonton, AB T5G 2S7	██████████ ██████████████████
EPCOR D&T (Transmission / Substations)	██████████  Underground Transmission Engineer	EPCOR Distribution & Transmission Inc. 12116-107 Street Edmonton, AB T5G 2S7	██████████████████
Bell Canada	██████████████████  OSP Engineering	Bell Canada 28th Floor, 10104-103 Avenue Edmonton, AB T5J 0H8	██████████████████
ATCO Gas	██████████  Project Engineer, Distribution Improvements	ATCO Gas & Pipelines Ltd. 10035-105 Street Edmonton, AB T5J 2V6	██████████████████
ATCO Pipelines  (for the purposes of notifications and agreements)	Land Department – Transmission Pipelines	ATCO Pipelines 10035-105 Street Edmonton, AB T5J 2V6	██████████████████ ██████████████████
Rogers Communications	██████████████████  Fibre Planner, Outside Plant Engineering Northern Alberta	Rogers Cable Communication Inc. 10303 Jasper Avenue, Suite 1950 Edmonton, AB T5J 3N6	██████████████████ ██████████████████

<b>Company</b>	<b>Contact</b>	<b>Address</b>	<b>Phone Number / Email</b>
EPCOR Water (Network Services)	██████████ Manager Distribution Infrastructure	EPCOR Water Services Inc. Rossdale Water Treatment Plant 9469 Rossdale Road Edmonton, AB T5J 3B1	██████████ ██████████ ██████████
EPCOR Water (Drainage)	██████████	EPCOR Water Services (Drainage), 14323 115 Avenue Edmonton, AB T5M 3B8	██████████ ██████████ ██████████
TELUS (primary contact)	██████████ Access Network Planner	TELUS Communications Inc. 10th Floor, 10035-102 Avenue NW Edmonton, AB T5J 0E5	██████████
TELUS (primary contact)	██████████ Senior Design Specialist	TELUS Communications Inc. 10th Floor, 10035-102 Avenue NW Edmonton, AB T5J 0E5	██████████
TELUS (small cell)	██████████ Project Manager, Mobile Broadband Network Deployment	TELUS Communications Inc. 11404 60 Avenue NW Edmonton, AB T5J 0E5	██████████ ██████████
Zayo	██████████ OSP PM AB North/SKNetwork Planner	Zayo Group 10250-101 Street, Suite 400 Edmonton, AB T5J 3P4	██████████
Shaw	██████████ Planner III	Shaw Communications Inc. 10450-178 Street Edmonton, AB T5S 1S2	██████████

**PIPELINES**

<b>Company</b>	<b>Contact</b>	<b>Address</b>	<b>Phone Number / Email</b>
Trans Mountain Canada Inc.	██████████	Trans Mountain Corporation Building B, Suite 276	██████████

Company	Contact	Address	Phone Number / Email
		Sherwood Park, AB T8H 2W7	
Keyera	[REDACTED]	Keyera Energy 1680-102 Avenue Edmonton, AB T6P 1V7	[REDACTED]
Pembina Pipeline	[REDACTED] Engineer, TSU Integrity Projects	Pembina Pipeline Corp 56 Liberty Road Sherwood Park, AB T8H 2J6	[REDACTED]
ATCO Pipelines	[REDACTED] Senior Engineer	ATCO Gas & Pipelines Inc. 7210-42 Street Edmonton, AB T6B 3H1	[REDACTED]
Plains Midstream	[REDACTED] Director, Expansion Projects Expansion Projects	Plains Midstream Canada Suite 1400, 607 8 Ave S.W. Unit 120, 2833 Broadmoor Blvd Calgary, AB T2P 0A7	[REDACTED]

**CITY OF EDMONTON COMMUNICATIONS INFRASTRUCTURE**

Branch	Contact	Address	Phone Number / Email
City of Edmonton Fibre Optic Cable	[REDACTED] Network Services	City of Edmonton Network Services – OCT Branch, Corporate and Financial Services 12th Floor, Century Place 9803 102a Avenue Edmonton, AB T5J 3A3	[REDACTED]

## APPENDIX 28-2G

### Utility Line Assignment (ULA) Data and Processes

#### 1. APPLICATION

##### 1.1 Background

- A. As the owner of the road right of way within the City of Edmonton, the City determines where Utility Infrastructure is placed and has developed the ULA permit system to administrate installation requests. No utility installation work shall be undertaken without a valid ULA permit having been issued pursuant to Bylaw 12846, Regulation of Work and Equipment Installation on City Lands. ULA applications are processed online through a web-based application process. A link to the City's website relating to ULA permits is [https://www.edmonton.ca/business\\_economy/utility-line-assignment-permit.aspx](https://www.edmonton.ca/business_economy/utility-line-assignment-permit.aspx).
- B. Drawing standards for ULA permit submissions are available at the City's website at [https://www.edmonton.ca/business\\_economy/documents/PDF/Drawing\\_Standards\\_for\\_ULA\\_Permit\\_submissions.pdf](https://www.edmonton.ca/business_economy/documents/PDF/Drawing_Standards_for_ULA_Permit_submissions.pdf).
- C. Each applicant shall submit a separate application for its installation. In the case of joint installations that involve Utility Infrastructure to be operated by another Utility Company, each Utility Company shall submit an application.
- D. Non-permanent investigation work, such as daylighting, does not require a ULA permit.
- E. ULA permit applications must be reviewed by each department and agency within the City and by all Utility Companies with Utility Infrastructure that could reasonably be affected. A ULA permit is valid for one calendar year, unless otherwise specified. Where work under a ULA permit has not occurred within or extends beyond the permit expiry date, the applicant shall reapply for a new ULA permit. No work shall be performed under an expired permit.
- F. A valid ULA permit, confirming design, construction method and approximate schedule is a precondition to applying for an OSCAM permit for Infrastructure installations or maintenance within the City's road right of way.
- G. The placement of any Utility Infrastructure within the City's road right of way shall be designed to minimize conflicts with future infrastructure.

##### 1.2 Process Overview

- A. The City unit that administers the ULA permit system is the Right-of-Way Management Group. This group collects applications, distributes them to potentially affected City departments, agencies, and Utility Companies for review and feedback.
- B. Each affected Utility Company will have access to information from its and other Utility Company application requests. Project Co shall be supplied with ULA application information from Utility Companies and the City.
- C. Project Co shall designate a ULA representative and an alternative and shall make these contacts known to the Right-of-Way Management Group, LRT Expansion and Renewal, and other interested parties, as needed. Any changes to these individuals shall be communicated to LRT Expansion and Renewal, and to the Right-of-Way Management Group. Each of the representative and alternative must possess demonstrated technical competency to hold these positions.



- D. Project Co shall obtain from the City a copy of each ULA submission submitted by others within and adjacent to the Lands, as appropriate. Project Co will be responsible to:
1. Review the submission and, within the required time for doing so, provide formal comments to the Right-of-Way Management Group, the LRT Expansion and Renewal contact, or other contact as agreed by Project Co and the City, on a similar basis as required of Utility Companies supplying written responses;
  2. Circulate the design to the relevant Utility Companies as it relates to Project Work, coordinate and collate the Utility Companies' responses in a manner and on a basis consistent with a pre-ULA circulation, supply the collated responses to Right-of-Way Management; and
  3. Coordinate as necessary to resolve any issues noted throughout the foregoing process.

### **1.3 Prior Coordination (Pre-ULA process)**

- A. Prior to submission of a ULA application by Project Co, coordination with Utility Companies shall have been performed. The ULA system is not the process through which expected coordination and Utility Conflict resolutions are achieved. Accordingly, advance dialogue with Utility Companies must precede formal ULA applications. The recommended pre-ULA process that Project Co shall perform is:
- Potential Utility Conflict location identification and investigation;
  - Potential Utility Conflict notification to affected Utility Companies and the Design Team of conflicts and causation;
  - Project Co development and circulation of a recommended mitigation concept to the Design Team and subsequent discussion with the affected Utility Companies;
  - Perform and share additional field investigations to confirm the Utility Conflict and mitigation concept where appropriate;
  - Discuss suitability of the mitigation concept with each Utility Company to eliminate objections or incorporate any improvements;
  - Continue the process of design development, submission, circulation, response collection, and coordination until a mutually acceptable design is developed; and
  - When mutual agreement to the pre-ULA process has been attained, recommend or proceed with formal ULA application.

### **1.4 ULA Application Process**

- A. Applications are to be submitted electronically via the City's accelerated on-line utility coordination and ULA permit application tool.
- B. An application has a 2 week review period for a full distribution.
- C. A rush application has a 1 week review period and a reduced distribution list. These are restricted to resubmission of a previously circulated application or suspended permit reapplication; see Section 1.8 [Permit Suspension] of this Appendix 28-2G.

- D. Applications are processed in the order they are received. Distribution of the application may be delayed based upon the volume of applications made as well as other such factors leading to a delay in obtaining a collated response to the application. The review period will begin at the earlier of the distribution date, or one week following the submission date should a high volume of applications delay distribution.
- E. Incomplete information may result in return and refusal to process the application.

### **1.5 ULA Responses**

- A. Responses to applications are mandatory within the applicable review period.
- B. Acceptable responses are limited to:
  - 1. Approved with no conditions;
  - 2. Denied with reasons stated; or
  - 3. Approved with conditions.

Conditions contained within an application response must be clear, based upon application of a standard industry practice and capable of being satisfied without creating other conflicts.

- C. If a response is not provided within the applicable review period, a reminder to respond will be transmitted by the Right-of-Way Management Group to those who have not yet provided a response. There will be one reminder distributed. The late submission period shall run for a maximum of one week from the end of the application review period.
- D. If outstanding responses remain at the end of the late submission period, the City will evaluate from responses received and the anticipated applicability of missing responses to determine whether a permit is granted. A maximum of one week will be allowed to complete this administrative review and issue a permit response.

### **1.6 Application Denial**

- A. Any respondent, including the City, may deny an application upon valid grounds. The registration of a valid denial response shall officially void the application. The Right-of-Way Management Group will notify the applicant that the application has been denied, including reasons therefor.
- B. The applicant will be required to resolve the issues leading to the denial with the responder or responders who objected to the application, outside of the ULA application process, prior to reapplication. As no permit was ever granted, the standard two week application review period may apply to any reapplication made under these circumstances.
- C. Should reasonable efforts not yield a mutually agreeable solution, the applicant may request the City to mediate an agreement. In this case the applicant shall, in addition to provision of all pertinent data in which to facilitate a thorough review of the details to the City, identify within its new application the presence of an existing objection; stating the following:
  - 1. description of the objection;
  - 2. name of the dissenting company;
  - 3. contact information for the representative of the company dissenting to the work.

## **1.7 Application Acceptance**

- A. Approval of an application will be through issuance of a Utility Line Assignment Permit document by the Right-of-Way Management Group, containing the official permit number and issuance date.
- B. Where there are missing responses but no denials contained in received responses, the City may, at its sole discretion, grant a ULA permit without all responses having been received.
- C. A valid ULA permit number is required prior to application for an OSCAM permit and shall be supplied on the OSCAM application.
- D. All conditions identified by ULA application respondents are contained within the permit document, and shall be adhered to by the applicant in completing their work. Where satisfaction of one condition infringes upon another the permit shall be deemed automatically suspended; see Section 1.8 [Permit Suspension] of this Appendix 28-2G. The applicant shall directly notify the affected parties to establish a mutually satisfactory solution, develop and submit a Rush application demonstrating compliance with all conditions.

## **1.8 Permit Suspension**

- A. Presence of any of the following conditions shall automatically place the ULA permit into suspension:
  - 1. Where an installation varies from approved design by greater than the following horizontal and vertical deviations:
    - (i) Horizontal: 0.15m
    - (ii) Vertical: 0.25m
- B. Deviation from an item within the application, including but not limited to:
  - (i) Installation methodology (example: directional push to open cut)
  - (ii) Substitution of materials
  - (iii) Addition of previously unidentified installations
- C. Where a permit is suspended the applicant shall stop construction.
- D. Work may only resume once a permit is removed from suspension. To remove a permit from suspension requires successful processing of a Rush application or written authorization by Utility Company and/or Pipeline Company representatives with authority to grant the proposed change via a document developed and administered by Project Co.

## **1.9 Permit Revocation**

- A. The City may revoke a permit due to:
  - 1. Repeated noncompliance with permit conditions;
  - 2. Unsafe work;
  - 3. Notification by the applicant that the work will no longer be undertaken.

## **2. DRAWING STANDARDS FOR ULA PERMIT SUBMISSION**

### **2.1 General**

- A. ULA drawing submissions shall be clear, concise, and legible design, produced in color at a size relevant to the overall project. Multiple pages may be required for legibility. Applications are received on-line and attachments shall be in pdf format with CAD drawings available upon request. Information on the Drawing standards for ULA Permit Submissions can be found on the City's website  
[https://www.edmonton.ca/business\\_economy/documents/PDF/Drawing\\_Standards\\_for\\_ULA\\_Permit\\_submissions.pdf](https://www.edmonton.ca/business_economy/documents/PDF/Drawing_Standards_for_ULA_Permit_submissions.pdf).

## **3. COMPLETED INSTALLATION RECORDS**

### **3.1 General**

- A. An as-built record of the Infrastructure installation shall be supplied to the Right-of-Way Management Group. The as-built data should be reflected on updated Project Co CAD base files and electronically submitted to the City no later than two months following completion of the installation.
- B. The as-built record shall contain an accurate representation of the actual location of the installation (horizontal and vertical), size and orientation, connections, and appurtenances. Horizontal information should contain centerline alignment along with representative installation widths. Each alteration in horizontal and vertical alignment, orientation, materials should be included in the records.
- C. In accordance with CSA-S250-11 the level of accuracy of as-built record information shall be a minimum of Level 2; +/- 100mm in the x, y and z coordinates. The quality level of data shall be level A for any section of open cut installation and level B for other installations.
- D. As-built drawings shall be supplied in accordance with existing City cadastral practices.
- E. The respective Utility Company shall retain responsibility for electronically submitting design information for incorporation into the cadastral GeoEdmonton system. Where Project Co has been the designer and constructor of that Utility Infrastructure, Project Co shall submit this information to the respective Utility Owner no later than two months following completion of the installation and/or no later than two months following abandonment of a facility has been completed.

As-built records for the following works shall be submitted to the respective City departments, agencies or Utility Companies, as applicable:

- Drainage works to EPCOR Drainage
- Streetlights and Signals to the City of Edmonton Signals and Streetlights
- Telecom to TELUS, SHAW, Rogers, Bell, the City of Edmonton
- Gas to ATCO Gas
- Water to EPCOR Water
- Electrical power to EPCOR Distribution and Transmission

- City fibre optic lines to City of Edmonton Facility Infrastructure Delivery

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