

## Landscape Addendum – Utility Coordination

Addendum #: 01

To:	Prospective Contractors	From:	Zoe Wimmer
Company Name:	O2 Planning + Design	Date:	2022-02-18
Contact:	zoe.wimmer@o2design.com	Enclosures:	Schedule B – Schedule of Quantities Specification Section 01-22-10 Measurement Schedule Drawing LM-101 Materials Plan
Project Name:	Drumheller Downtown Plaza	O2 Project No.:	210201
Addendum Name:	Utility Coordination		

### DESCRIPTION

Landscape addendum capturing addition of gas line utility coordination

1. Schedule B – Schedule of Quantities
2. Specification Section 01-22-10 Measurement Schedule
3. Drawing LM-101 Materials Plan

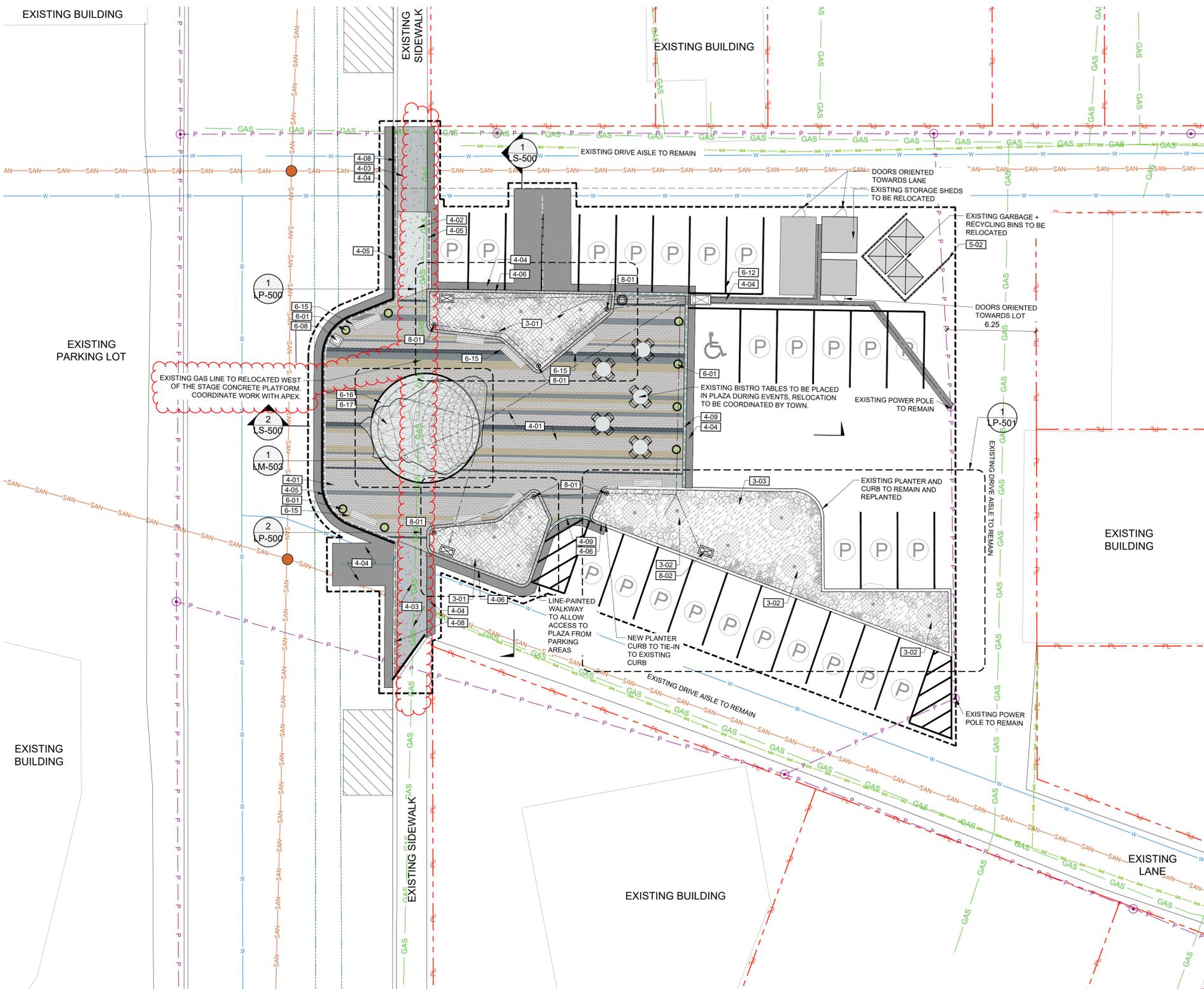
### Gas Line Utility Coordination

- Additional gas line has been identified within site boundary. Proponents are to include the coordination of moving said line with Apex Utility Provider. Apex's team will be responsible for excavation, removal and backfilling of said line. Refer to updated Schedule B – Schedule of Quantities, Item 2.9 in Schedule 2, and updated Specification Section 01-22-10 Measurement Schedule for further information.

END OF ADDENDUM

EXISTING BUILDING

EXISTING BUILDING



EXISTING PARKING LOT

EXISTING BUILDING

EXISTING BUILDING

### MATERIALS LEGEND

3 SOFTSCAPE DESCRIPTION		QTY	DETAIL
SYMBOL	3-01	69.63 m <sup>2</sup>	5LP-500
	3-02	15.9 m <sup>2</sup>	4LP-500
	3-03	87.5 m <sup>2</sup>	5LP-500
4 HARDSCAPE DESCRIPTION		QTY	DETAIL
SYMBOL	4-01	287.2 m <sup>2</sup>	1LM-500
	4-02	12.5 m <sup>2</sup>	2LM-500
	4-03	28.5 m <sup>2</sup>	3LM-500
	4-04	110.5 m <sup>2</sup>	5LM-500
	4-05	34.2 m	REFER TO CIVIL
	4-06	61.2 m	7LM-500
	4-08	15.4 m	REFER TO CIVIL
	4-09	22.2 m	9LM-500
5 FENCES & GATES DESCRIPTION		QTY	DETAIL
SYMBOL	5-02	1	2LM-502
6 SITE FURNISHINGS & FEATURES DESCRIPTION		QTY	DETAIL
SYMBOL	6-01	8	REFER TO SPECS
	6-08	1	REFER TO SPECS
	6-12	224.8 m	2LM-501
	6-13	5	REFER TO SPECS
	6-15	8	REFER TO SPECS
	6-16	35.2 m <sup>2</sup>	12/LM-500
		24.2 m	12/LM-500
	6-17	1	LM-503
8 ELECTRICAL DESCRIPTION		QTY	DETAIL
SYMBOL	8-01	6	REFER TO ELECTRICAL
	8-02	4	REFER TO ELECTRICAL

### GENERAL LEGEND

- LIMIT OF WORK
- - - - - PROPERTY LINE

### UTILITIES LEGEND

- EXISTING POWER POLE
- P — EXISTING OVERHEAD POWER LINE
- EXISTING CURB
- EXISTING STORM SEWER
- SAN — EXISTING SANITARY LINE
- W — EXISTING WATER LINE
- GAS — EXISTING GAS LINE
- GAS — EXISTING GAS LINE TO BE RELOCATED BY APEX
- — PROPOSED UNDERGROUND POWER LINES
- PROPOSED IRRIGATION SPRINKLERS
- — PROPOSED IRRIGATION LINES

TOTAL PARKING STALLS: 28

**PROJECT**  
**DRUMHELLER DOWNTOWN PLAZA**  
 FOR MUNICIPALITY OF DRUMHELLER



### SEALS

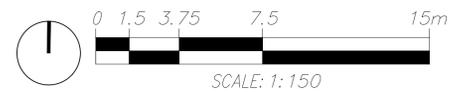


ISSUED FOR: LANDSCAPE ADDENDUM #1  
 DATE: 2022-02-18

REVISIONS:	NO.	DESCRIPTION.	DATE.	BY.
	2	ISSUED LANDSCAPE ADDENDUM #1	2022-02-18	
	1	ISSUED FOR TENDER	2022-02-15	

DESIGNED BY: ZW/MW CHECKED BY: MW  
 PLOT DATE: 2022-02-15  
 DRAWING FILE NAME:  
 LM-100 PHASE 1 MATERIALS PLAN.dwg

DRAWING TITLE:  
**PLAZA - PHASE 1**



# LM-101

Project Title: DRUMHELLER DOWNTOWN PLAZA  
 Schedule B - SCHEDULE OF QUANTITIES  
 RFP 2022-02-15

**SCHEDULE 1 - GENERAL CONDITIONS**

Item	Description	Drawing Reference	Unit of Measure	Estimated Quantity	Unit Price	Estimated Price = (Unit Price x Est. Quantity)
1.1	Contractor Use of Site + Mobilization / Demobilization	n/a	LS	1.00		
1.2	Work Permit Application including fencing drawings	n/a	LS	1.00		
1.3	One-year maintenance and warrenty	n/a	ea	1.00		
					<b>Sub-Total Schedule 1</b>	

Carry Forward the Sub-Total of Schedule 1 for calculation of Total Proposal Price

**SCHEDULE 2 - SELECTIVE DEMOLITION AND RELOCATION**

Item	Description	Drawing Reference	Unit of Measure	Estimated Quantity	Unit Price	Estimated Price = (Unit Price x Est.)
2.1	Remove existing surface and/or excavate to 600mm ± depth	2-01	m2	117.90		
2.2	Remove existing concrete curb - Planter	2-02	l.m	26.70		
2.3	Remove existing road curb and gutter - Road	2-03	l.m	35.80		
2.4	Remove existing concrete paving and/or excavate to 480mm ± depth for heavy duty concrete paving.	2-05	m2	26.00		
2.5	Remove existing asphalt paving to 380mm ± depth required for pedestrian pavers.	2-06	m2	278.90		
2.6	Remove existing planting and planting soil to 450mm ± depth for pedestrian pavers.	2-09	m2	18.40		
2.7	Remove existing shrub	2-11	ea.	12.00		
2.8	Remove existing asphalt paving to 300mm ± depth required for concrete planter edge.	2-15	m2	11.40		
2.9	Coordination of utility work with external utility providers (ATCO + APEX)	8-05	LS	1.00		
					<b>Sub-Total Schedule 2</b>	

Carry Forward the Sub-Total of Schedule 2 for calculation of Total Proposal Price

**SCHEDULE 3 - SOFTSCAPE**

Item	Description	Drawing Reference	Unit of Measure	Estimated Quantity	Unit Price	Estimated Price = (Unit Price x Est. Quantity)
3.1	Planting Soil Type 1 - 975mm depth - 75mm Bark Mulch - 900mm Topsoil - Soil Amendments @ Rootball	3-01	cu.m.	69.63		
3.2	Planting Soil Type 2 - 375mm Depth - 75mm Bark Mulch - 300mm Topsoil @ Rootball - Soil Amendments	3-02	m2	15.90		
3.3	Bark Mulch Top-up in existing planter - 75mm Bark Mulch	3-03	m2	87.50		
<b>Sub-Total Schedule 3</b>						

Carry Forward the Sub-Total of Schedule 3 for calculation of Total Proposal Price

**SCHEDULE 4 - HARDSCAPE**

Item	Description	Drawing Reference	Unit of Measure	Estimated Quantity	Unit Price	Estimated Price = (Unit Price x Est. Quantity)
4.1	Pedestrian Unit Paving: Procurement, and installation of unit pavers, sand setting bed, granular base and base. 4 unique colours to follow pattern	4-01	m2	287.20		
4.2	Concrete Paving - light duty	4-02	m2	12.50		
4.3	Concrete Paving - heavy duty	4-03	m2	28.50		
4.4	Asphalt paving repair	4-04	m2	110.50		
4.5	Standard curb and gutter - refer to Civil for details	4-05	m2	34.20		
4.6	Concrete planter curb	4-06	l.m	61.20		
4.7	Flush header at drive aisle - refer to Civil for details	4-08	l.m	15.40		
4.8	Flush concrete header	4-09	l.m	22.20		
					<b>Sub-Total Schedule 4</b>	

Carry Forward the Sub-Total of Schedule 4 for calculation of Total Proposal Price

Project Title: DRUMHELLER DOWNTOWN PLAZA  
 Schedule B - SCHEDULE OF QUANTITIES  
 RFP 2022-02-15

**SCHEDULE 5 - FENCE AND GATES**

Item	Description	Drawing Reference	Unit of Measure	Estimated Quantity	Unit Price	Estimated Price = (Unit Price x Est. Quantity)
5.1	Waste bin enclosure	5-02	ea	1.00		
<b>Sub-Total Schedule 5</b>						

Carry Forward the Sub-Total of Schedule 5 for calculation of Total Proposal Price

**SCHEDULE 6 - SITE FURNISHING AND SITE FEATURES**

Item	Description	Drawing Reference	Unit of Measure	Estimated Quantity	Unit Price	Estimated Price = (Unit Price x Est. Quantity)
6.1	Waste receptacle (to be transported to site by Town and installed by Contractor on concrete pad)	6-08	ea	1.00		
6.2	Parking lot line paint	6-12	l.m	224.80		
6.3	Dinosaur themed benches	6-15	ea	8.00		
<b>Sub-Total Schedule 6A</b>						

Carry Forward the Sub-Total of Schedule 6 for calculation of Total Proposal Price

Project Title: DRUMHELLER DOWNTOWN PLAZA  
 Schedule B - SCHEDULE OF QUANTITIES  
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**SCHEDULE 7 - STAGE**

Item	Description	Drawing Reference	Unit of Measure	Estimated Quantity	Unit Price	Estimated Price = (Unit Price x Est. Quantity)
7.1	Dino Stage Base - Cast-in-Place Concrete Platform with (2) 150mm high steps.	6-16	m2	35.20		
7.2	Dino Stage Canopy - Design Build of canopy, posts and footing of overhead structure. Includes the coordination and integration of proposed utilities - refer to Electrical Package as well as structural design and phasing of Stage within overall construction schedule	6-17	allowance	1.00	\$ 200,000.00	
<b>Sub-Total Schedule 7</b>						

Schedule "7" is subject to removal dependant on budget allowance. Will be determined following contract award.

Carry Forward the Sub-Total of Schedule 7 for calculation of Total Proposal Price

**SCHEDULE 8 - PLANTING**

Item	Description	Drawing Reference	Unit of Measure	Estimated Quantity	Unit Price	Estimated Price = (Unit Price x Est. Quantity)
8.1	Deciduous Tree 80mm Cal. - Malus baccata 'Rosthern' / Rosthern Crabapple	MR	ea	16.00		
8.2	Arenaria x 'Wallowa Mountains'/Wallowa Mountains Sandwort	AX	ea	182.00		
8.3	Aruncus aethusifolius / Dwarf Goatsbeard	AA2	ea	66.00		
8.4	Astilbe x 'Cappuccino' / Cappuccino Astilbe	AC	ea	118.00		
8.5	Echium amoenum/ Red Feathers	ER	ea	176.00		
8.6	Geum triflorum/Prairie Smoke	GT	ea	200.00		
8.7	Hemerocallis x 'Night Embers' / Night Embers Daylily	HN	ea	77.00		
8.8	Lupinus x 'Noble Maiden' / Noble Maiden white lupine	LX	ea	57.00		
<b>Sub-Total Schedule 8</b>						

Carry Forward the Sub-Total of Schedule 8 for calculation of Total Proposal Price

Project Title: DRUMHELLER DOWNTOWN PLAZA  
 Schedule B - SCHEDULE OF QUANTITIES  
 RFP 2022-02-15

**SCHEDULE 9 - ELECTRICAL**

Item	Description	Drawing Reference	Unit of Measure	Estimated Quantity	Unit Price	Estimated Price = (Unit Price x Est. Quantity)
9.1	Electrical - All electrical luminaires, cable, conduit, and equipment as outlined in Electrical	E2.4	ea	6.00		
<b>Sub-Total Schedule 9</b>						

Carry Forward the Sub-Total of Schedule 9 for calculation of Total Proposal Price

<b>SCHEDULE 10 - IRRIGATION</b>						(Unit Price x Est. Quantity)
Item	Description	Drawing Reference	Unit of Measure	Estimated Quantity	Unit Price	
10.1	Point of Connection: 38mm Watts 007 DCVA, Drain, 25mm Neptune Mach 10 Water Meter (Obtain from Town), Isolation Valve, and Blow Out	IR-01+IR-02	l.s.	1.00		
10.2	Controller Components and Control Wiring Assembly Parts: Hunter A2C-1200-P Irrigation Controller	IR-01+IR-02	ea	1.00		
10.3	Controller Components and Control Wiring Assembly Parts: Hunter Wireless Rain/Freeze-Click Sensor	IR-01+IR-02	ea	1.00		
10.4	Controller Components and Control Wiring Assembly Parts: 14 gauge control wire, 12 gauge common	IR-01+IR-02	l.s.	1.00		
10.5	Controller Components and Control Wiring Assembly Parts: 38mm Electrical Conduit	IR-01+IR-02	lm	10.00		
10.6	Sleeving: 100mm SDR 35 PVC Sleeve	IR-01+IR-02	lm	20.00		
10.7	Mainline: 38mm SDR 17.0 HDPE Mainline	IR-01+IR-02	lm	20.00		
10.8	Lateral: 25mm Prime 100 LDPE Lateral	IR-01+IR-02	lm	35.00		
10.9	Lateral: 38mm CSA Series 160 PVC SW Lateral	IR-01+IR-02	lm	90.00		
10.10	Electric Control Valve Assembly c/w Union, Ball Valve, AC Latching Solenoid and Valve Box: 25mm Hunter ICV-101G Electric Control Valve	IR-01+IR-02	ea	1.00		
10.11	Electric Control Valve Assembly c/w Union, Ball Valve, AC Latching Solenoid and Valve Box: 38mm Hunter ICV-151G Electric Control Valve	IR-01+IR-02	ea	1.00		
10.12	Irrigation Sprinklers c/w Swing Assembly, Check Valve: Hunter PROS-12-PRS30-CV Spray Sprinkler c/w Pro-Spray Fixed Nozzle	IR-01+IR-02	ea	40.00		
10.13	Miscellaneous Valves: 25mm Quick Coupler Valve /w Valve Box	IR-01+IR-02	ea	1.00		
10.14	One-year maintenance and warranty	n/a	ea	1.00		
<b>Sub-Total Schedule 10</b>						

Carry Forward the Sub-Total of Schedule 10 for calculation of Total Proposal Price

<b>SCHEDULE 11 - SITE SERVICING</b>						(Unit Price x Est. Quantity)
Item	Description	Drawing Reference	Unit of Measure	Estimated Quantity	Unit Price	
10.1	Water - 50mm pex		l.m	9.00		
10.2	Water - Curb Stop		ea.	1.00		
10.3	Water - Stop and Drain Valve		ea.	1.00		
10.4	Water - Tee 300mm x 300mm x 50mm		ea.	1.00		
10.5	Storm - 300mm PVC Pipe		l.m	4.00		
10.6	Storm - Type 5A Manhole		ea.	1.00		
10.7	Storm - CF k2 Assembly		ea.	1.00		
<b>Sub-Total Schedule 11</b>						

Carry Forward the Sub-Total of Schedule 11 for calculation of Total Proposal Price

**Part 1            General**

**1.1                SECTION INCLUDES**

- .1    Measurement schedule.
- .2    Quantity calculations.

**1.2                GENERAL REQUIREMENTS**

- .1    The conditions contained in this document are supplemental to, and should be read in conjunction with, the RFT any condition herein deletes, modifies, or adds to a special general condition set forth in the RFT or part thereof, the unaltered portion shall remain in effect.

**1.3                MEASUREMENT SYSTEM**

- .1    This section specifies the measurement rules that will generally be used for payment purposes unless otherwise specified in the Contract Documents. In case of conflict between the method of measurement specified in this section and the requirements specified in Section 01280 – Measurement Schedule, the latter will govern.
- .2    Work will be measured in the International System of Units (SI) in accordance with CAN/CSA-Z234.1-89 Canadian Metric Practice Guide.
- .3    When used in the Contract, the following abbreviations and symbols have the meaning assigned to them.

<b>Abbreviation/Symbol</b>	<b>Meaning</b>
µm	micrometre or micron
mm	millimetre
m	metre
mm <sup>2</sup> or mm2	square millimetre
m <sup>2</sup> or m2	square metre
ha	hectare
kPa	kilopascal
MPa	megapascal
m <sup>3</sup> or m3	cubic metre
L	litre
L.S.	lump sum
g	gram
kg	kilogram
N	newton
kN	kilonewton
t	tonne
no.	number (quantity)
min	minute (time)
h	hour
d	day
wk	week
%	percent

>	greater than
≥	greater than or equal to
<	less than
≤	less than or equal to
\$	Canadian dollars
°	degree (angle)
°C	degree Celsius
vm	vertical metre
rpm	revolutions per minute
US gpm	US gallon per minute
gal	gallon
Btu	British thermal unit
VDC	volts of direct current
VAC	volts of alternating current
Ah	amp hour

**1.4 METHOD OF MEASUREMENT**

- .1 Unless otherwise indicated in the Contract Documents:
  - .1 Earthwork materials will be measured net in place after compaction, with no allowance for bulking, shrinkage, compression, foundation settlement, or waste;
  - .2 Products will be measured net, with no allowance for waste;
  - .3 Dimensions used in calculating quantities will be rounded to the nearest unit of dimension as follows:
 

<u>Quantity</u>	<u>Dimension</u>
Volume of earth	centimetre
Volume of concrete	millimetre
Length of pipe	centimetre
Area of land	decimetre
  - .4 The survey station grid system adopted will be at 10 linear metres spacing on curves and 20 linear metres spacing on tangent sections for measuring earthwork quantities, respectively;
  - .5 Contours may be based on aerial photograph interpretation and are approximate only. Actual ground elevations and location co-ordinates will be determined in the field during the course of the Work for measurement purposes; and
  - .6 Measurement and payment will not be made for work carried out beyond measurement and payment lines and limits specified in the Contract Documents.
- .2 When boundaries between different items of Work are not specified in the Contract Documents, such boundaries will be established by the Owner.
- .3 Mass:
  - .1 Mass will be measured by weigh scale or by estimated or theoretical mass taken from reference documents, as specified.
  - .2 Mass will be measured to 3 decimal places.

- .4 Length:
  - .1 Length will be measured at the item centreline or mean chord.
  - .2 Items to be measured by linear dimension will be measured parallel to the base or foundation upon which such items are placed.
  - .3 Items to be measured by station will be measured horizontal to the base or foundation upon which such items are placed.
  - .4 Centre line for pipes, ducts, culverts, and similar items will be the line equidistant between inside faces of pipe walls.
- .5 Area:
  - .1 For rectangular and regular shaped objects, area will be measured using mean length and width or radius.
  - .2 For irregular objects, area will be measured by the sum of squares, triangles, and circles, etc., as selected by the Owner.
- .6 Volume:
  - .1 Unless otherwise indicated, volume will be measured using mean length, width, and height or thickness.
  - .2 Excavation and fill volumes will be computed using a digital terrain modelling computer software program.
- .7 Time:
  - .1 Construction Equipment to be paid for on a time basis will be measured in hours of actual working time, and necessary travelling time, when under its own power to the nearest tenth thereof.
  - .2 Hauling equipment to be paid for on a time basis will be measured in hours of actual working time to the nearest tenth thereof.
- .8 Number of items will be measured on a per item basis.
- .9 Lump Sum items will not be measured for payment.
- .10 When standard manufactured items are identified by their physical characteristics, such characteristics will be considered as nominal. Unless more stringently controlled by specified tolerances, manufacturing tolerances established by the industry involved will be accepted.

#### **1.5 MEASUREMENT COMPUTATION**

- .1 Formulae and computer programs used for measurement computation will be as specified or, when not specified, as selected by the Owner.

#### **1.6 MEASUREMENT OF WORK**

- .1 Unless otherwise specified, the Owner will measure the Work for the purpose of determining payment to the Contractor.
- .2 The Owner will request the Contractor to attend with the Owner in making measurements.

- .3 If the Contractor does not attend pursuant to Paragraph 1.4.2, measurements made or approved by the Owner will be considered to be the correct measurement for such part of the Work.
- .4 The Owner will prepare survey records and drawings for payment purposes as the Work progresses. The Owner will request the Contractor to attend, within 14 days, to examine and verify such records and drawings. If the Contractor does not attend to examine and verify such records and drawings, they will be considered to be correct.
- .5 If, after attending pursuant to Paragraph 1.4.2 or 1.4.4, the Contractor disagrees with such measurements or records or drawings, they will nevertheless be considered correct until the Contractor notifies the Owner of the aspects in which they are considered incorrect. On receipt of such notice, the Owner will review the measurements or records or drawings and either confirm or vary them.

## **1.7 QUANTITIES**

- .1 Unless otherwise indicated, quantities specified in the Schedule of Prices for Unit Price Work are estimated quantities and will not be considered as actual quantities of Work to be performed. Subject to the Contract terms, unit prices stated in the Schedule of Prices will be applied to actual quantities of Work performed as measured in accordance with the Contract Documents.
- .2 When it is stated that the Contractor will be paid only for the quantity specified for an item of Work, such quantity will be considered as a fixed quantity and the Contractor will be paid for the quantity specified, regardless of the actual quantity performed. If a change in the Work directed by the Owner results in a change in a fixed quantity, the quantity will be adjusted in accordance with the Contract Documents and payment will be made for the adjusted quantity.

## **1.8 SCALES**

- .1 Unless otherwise indicated, provide weigh scales, certified by Industry Canada, for measurement purposes.
- .2 Provide scales that are accurate to within 0.5% of correct mass throughout the range of use. Spring balances will not be permitted.
- .3 Prior to use and at any time requested by the Owner, provide the services of a qualified independent person, acceptable to the Owner, for the testing and servicing of weigh scales. Perform baseline tests and record results. Service and adjust weigh scales to meet requirements of Industry Canada and the Contract Documents. Submit a final report of weigh scale tests, services, and adjustments.
- .4 Scales indicating more than true mass will not be permitted to operate and material measured subsequent to the last previous correct accuracy test will be reduced by the percentage of error in excess of 0.5%.
- .5 Scales indicating less than true mass will be adjusted and no additional payment will be made for materials previously scaled and recorded.

## **1.9 MEASUREMENT SCHEDULE**

- .1 Schedule: See following pages.
- .2 Quantity Calculations – Scheduled Lump Sum items.

- .1 When an interim payment is to be a specified percentage of a lump sum item and is calculated based on the ratio of the value of Work completed to the interim date, and the Project Price, that specified percentage will be included in the calculation of the value of the Work completed to that interim date.
- .3 Breakdown of Lump Sum items
  - .1 Submit a breakdown of each lump sum item included in the Schedule of Prices, within 15 days after the commencement date of the Agreement.
  - .2 Provide sufficient details as required to identify the principal components of the work and to permit ready valuation of the work performed.
- .4 Lump Sum items paid in accordance with the following schedule. The total amount of such payments shall not exceed the amount bid for this item.
  - .1 Payment of 25% of the Lump Sum amount after completion of Work for 5% of the bid amount.
  - .2 Payment of another 25% of the Lump Sum amount after completion of Work for 25% of the bid amount.
  - .3 Payment of another 25% of the Lump Sum amount after completion of Work for 50% of the bid amount.
  - .4 Payment of the remaining 25% of the Lump Sum amount after completion of all Work of the Agreement.
- .5 Payment of Cash Allowance items

**1.10 2.1 EXTRA WORK ALLOWANCES**

- .1 Unforeseen Work:
  - .1 Scope: Includes unforeseen work for which payment is not included elsewhere. Unforeseen work shall be approved by Owner.
  - .2 Measurement: Shall be made by the Owner after assessment of the nature of the unforeseen work. Method of measurement, extent of work and the limit of work shall be agreed to prior to commencing the unforeseen work.
  - .3 Payment: Shall be made by an approved change order describing the unforeseen work and setting out the method of payment (ie. lump sum, unit price and/or force account). Payment amount shall be taken from the Extra Work Allowance provided for in the Contract.

**1.11 UNIT PRICES**

- .1 Refer to Schedule B, Schedule of Quantities.
- .2 If the actual Work requires more or fewer quantities than those quantities indicated, provide the required quantities at the unit sum/prices contracted.
- .3 All unit price Work performed without notifying The Consultant to establish measurement and payment shall not be considered for payment.
- .4 The prices bid for various items of work, unless specifically noted otherwise, shall include the supply of all labour, material, and product equipment necessary to construct the work in accordance with the specifications.

- .5 The prices bid for supply and installation shall be full compensation for supplying, hauling, installing, cleaning, testing, and placing in service together with all other work subsidiary and incidental thereto for which separate payment is not provided elsewhere.
- .6 Measurement - unit prices
  - .1 Measurement units are delineated in the Schedule of Quantities for conditions specified in the Contract.
  - .2 Measurement methods and unit prices are determined by The Municipality of Drumheller for conditions that have been changed since the creation of this Contract.
  - .3 Take measurements and compute quantities. The Municipality of Drumheller will verify measurements and quantities.
- .7 Includes full compensation for required labour, Products, tools, equipment, plant and facilities, transportation, storage, services, and incidentals; erection, application or installation of an item of the Work; overhead and profit.

ITEM No.	ITEM NAME	SCOPE, MEASUREMENT, AND PAYMENT
1	Mobilization and Demobilization	<p>.1 Scope:</p> <p><u>Mobilization includes:</u> Supplying and transporting to the Site, labour, equipment, products and incidentals; providing and maintaining temporary facilities and controls, including site offices and related utilities; providing, maintaining, and restoring roads, pathways, laydown areas, and parking areas including video survey; temporary relocation and reinstatement of existing facilities; supplying, installing, maintaining and removing construction materials necessary for the Contractor's methods carried out during performance of the Agreement and which does not remain as part of the Permanent Work; and all related work and materials for which payment is not included elsewhere.</p> <p><u>Demobilization includes:</u> Removing and transporting from the Site, labour, equipment, products, and other items not required to remain upon Completion; cleaning of the Site; and all related work and materials for which payment is not included elsewhere.</p> <p><u>Mobilization and Demobilization includes:</u> Interim and partial mobilization and demobilization activities required to perform the Work of the Agreement.</p> <p>.2 Payment: Lump Sum and shall be paid for as 80% once mobilization to the Project Site is complete and the subject work has been initiated and the remainder shall be paid upon completion of all work to the satisfaction of The Municipality of Drumheller.</p>

2	Existing and Temporary Roads, Pathways and Signs	<p>.1 Scope: Includes designing; providing earthwork materials; constructing, and removing when required, existing and temporary roads and pathways, and detours; providing materials including signs, barricades, signals, flashers, and other safety measures; removing snow, dirt and debris from existing and temporary roads and detours; dust control; preparing submittals and obtaining approvals, including paying all levies, from the City of Calgary Transportation Department and Traffic Operations Division and Calgary Parks Department; includes video surveys; and all related work and materials for which payment is not included elsewhere. Materials incorporated in these works will not be paid for under any other item.</p> <p>.2 Payment: Lump Sum paid in accordance with the schedule outlines in Article 1.4.4 above.</p>
3	Temporary Construction Panel Fencing	<p>.1 Scope: Includes supplying, storing, handling, installing, maintaining, and removing temporary construction panel fencing; and all related work and materials for which payment is not included elsewhere.</p> <p>.2 Measurement: Shall be the installed length of temporary construction panel fencing measured along the fence at the ground surface.</p> <p>.3 Payment: Unit Price per metre in accordance with the following schedule:</p> <p style="padding-left: 40px;">.1 Payment of 75% of the extended amount after installing the fence.</p> <p style="padding-left: 40px;">.2 Payment of the balance of the extended amount after removing the fence.</p>
4	Surveying	<p>.1 Scope: Layout, grading, and as-built purposes</p> <p>.2 Payment: Lump Sum paid in accordance with the schedule outlines in Article 1.4.4 above.</p>
5	Paving Preparation	<p>.1 Scope:</p> <p><u>Clearing and Grubbing</u>: Includes cutting, removing, grubbing, mulching, loading, hauling, and disposing of logs, trees, brush, stumps, roots, and other deleterious material at an off Site waste disposal facility; salvaging and protecting roots of cleared plants designated by the Consultant to be replanted; protecting and treating trees and shrubs that are to remain; levelling, grading, and finishing of cleared areas; and all related work and materials for which payment is not included elsewhere.</p>

		<p><u>Topsoil Stripping</u>: Includes stripping, sorting, loading, hauling, dumping, and stockpiling of Topsoil in specified areas; and all related work and materials for which payment is not included elsewhere.</p> <p><u>Excavation</u>: Includes excavating designated areas; shaping and trimming to finished excavation surfaces; temporary stockpiling and rehandling, if required; loading, hauling, and dumping excess in an appropriate off-Site waste disposal facility following approval by The City; and all related work and materials for which payment is not included elsewhere.</p> <p>.2 Measurement: Shall be the area of Paving Preparation measured by survey.</p> <p>.3 Payment: Unit Price per square metre</p>
6	Sidewalk Removal	<p>.1 Scope: Includes saw cutting, demolishing, excavating, removing, temporary stockpiling, if required, rehandling, loading, hauling, and disposal of asphalt and gravel pavements and gravel subgrade materials off-site; and all related work for which payment is not included elsewhere.</p> <p>.2 Measurement: The area to be demolished shall be paint-marked prior to demolition and measured with the Consultant prior to starting the work. Shall be the surface area in square metres of the asphalt or gravel pathway removed as agreed with the Consultant.</p> <p>.3 Payment: Unit Price per square metre.</p>
7	Tree/Shrub Removal	<p>.1 Scope: Includes cutting, removing, grubbed, mulching, loading, hauling and disposal at an off-site waste disposal facility; levelling, grading and finishing of area; and all related work and materials for which payment is not included elsewhere.</p> <p>.2 Payment: Unit Price per Each</p>
8	Soil Type A	<p>.1 Scope: Includes preparing submittals and obtaining approvals, quality control testing, supplying, paying royalties, excavating, sorting, loading, hauling, temporary stockpiling, if required, mixing native Topsoil and supplied compost to the satisfaction of The City; preparing receiving surfaces; dumping, spreading, grading, rolling, cultivating, and raking Soil Type A; removing and disposing of rocks and deleterious materials; and all related work for which payment is not included elsewhere.</p> <p>.2 Measurement: Shall be the in-place volume of Soil Type A as determined from the top surface area of the Soil Type A measured by survey multiplied by the thickness specified</p>

		<p>in the contract documents or as adjusted by the Consultant.</p> <p>.3 Payment: Unit Price per cubic metre</p>
9	Asphalt Repair	<p>.1 Scope: Includes all labour, equipment, and material necessary to complete the construction of the Municipal Standard asphalt, including excavating, preparing the subgrade and base, side forms as required, supplying, storing, placing, spreading, trimming, joining, anchoring, installing root barrier, if required; protecting, paying royalties, any quality control testing as required by the approving authority, and any other work or material necessary to complete the structure that is not provided elsewhere.</p> <p>.2 Measurement: Shall be the installed area of asphalt pathway as determined by survey.</p> <p>.3 Payment: Unit Price per square metre</p>
10	Concrete Unit Pavers	<p>.1 Scope: Includes all labour, equipment, and material necessary to complete the construction of the concrete unit pavers as identified in the specs and construction drawings, including excavating, preparing the subgrade and base, side forms as required, supplying, storing, placing, spreading, trimming, joining, anchoring, installing root barrier, if required; protecting, paying royalties, any quality control testing as required by the approving authority, and any other work or material necessary to complete the structure that is not provided elsewhere.</p> <p>.2 Measurement: Shall be the installed area of pavers as determined by survey.</p> <p>.3 Payment: Unit Price per square metre</p>
11	Concrete Paving	<p>.1 Scope: Includes all labour, equipment, and material necessary to complete the construction of the Cast in Place Concrete Paving, including excavating, preparing the subgrade and base, supplying, storing, placing, spreading, trimming, joining, protecting, paying royalties, any quality control testing as required by the approving authority, and any other work or material necessary to complete the structure that is not provided elsewhere.</p> <p>.2 Measurement: Shall be the installed area of Cast in Place Concrete as determined by survey.</p> <p>.3 Payment: Unit Price per square metre</p>
12	Concrete Curb	<p>.1 Scope: Includes all labour, equipment, and material necessary to complete the construction of the Concrete Curb, including excavating, preparing the subgrade and</p>

		<p>base, supplying, storing, placing, spreading, trimming, joining, protecting, paying royalties, any quality control testing as required by the approving authority, and any other work or material necessary to complete the structure that is not provided elsewhere.</p> <p>.2 Measurement: Shall be the installed area of Concrete Curb as determined by survey.</p> <p>.3 Payment: Unit Price per metre</p>
13	Waste Bin Enclosure	<p>.1 Scope: Includes supplying, storing, loading, hauling, handling, and installing Waste Bin Enclosure; and all related work and materials for which payment is not included elsewhere.</p> <p>.2 Measurement: Shall be the installed length of Waste Bin Enclosure measured along the fence at the ground surface.</p> <p>.2 Payment: Unit Price per metre</p>
14	Waste Receptacle	<p>.1 Scope: Includes installation of waste receptacle at site.</p> <p>.2 Measurement: Shall be the in-place number of waste receptacles.</p> <p>.3 Payment: Unit Price per bench receptacle.</p>
15	Benches	<p>.1 Scope: Includes designing, fabricating, loading, hauling, protecting, temporary storing, and rehandling, if required, and installing the benches, supplying, excavating, sorting, quality control testing, and installation of all benches.</p> <p>.2 Measurement: Shall be the in place in-place number of benches</p> <p>.3 Payment: Unit Price per bench</p>
16	Trees	<p>.1 Scope: Includes supplying nursery-grown container trees, protecting, hauling, offloading, and temporarily storing, if required; preparing receiving surfaces; excavation of pits and planting beds, placing planting soil; temporary stockpiling and rehandling, if required; planting, protecting, and watering; removing and disposing of deleterious materials; supplying, loading, hauling, and placing Hemp Squares; supplying and installing tree protection; and all related work and materials for which payment is not included elsewhere.</p> <p>.2 Measurement: Shall be the in place in-place number of trees.</p> <p>.3 Price: Unit Price per tree.</p>

17	Site Lighting + Pedestal	<p>.1 Scope: Includes supplying, storing, loading, hauling, handling, and installing site pole lighting and pedestals; and all related work and materials for which payment is not included elsewhere.</p> <p>.2 Measurement: Shall be the in-place number of pole lights and pedestals</p> <p>.3 Payment: Unit Price per pole light and pedestal.</p>
18	Perennials	<p>.1 Scope: Includes supplying nursery-grown container perennials, protecting, hauling, offloading, and temporarily storing, if required; preparing receiving surfaces; excavation of pits and planting beds, placing planting soil; temporary stockpiling and rehandling, if required; planting, protecting, and watering; removing and disposing of deleterious materials; supplying, loading, hauling, and placing additional mulch if required; and all related work and materials for which payment is not included elsewhere.</p> <p>.2 Measurement: Shall be the in placein-place number of perennials.</p> <p>.3 Price: Unit Price per perennial..1 Scope: Includes supplying nursery-grown container perennials, protecting, hauling, offloading, and temporarily storing, if required; preparing receiving surfaces; excavation of pits and planting beds, placing planting soil; temporary stockpiling and rehandling, if required; planting, protecting, and watering; removing and disposing of deleterious materials; supplying, loading, hauling and; supplying and installing plant protection; and all related work and materials for which payment is not included elsewhere.</p> <p>.2 Measurement: Shall be the in place number of shrubs.</p> <p>.3 Price: Unit Price per perennial.</p>
19	Vegetation Establishment – Watering Perennials	<p>.1 Scope: Includes preparing and obtaining permits, if required, and obtaining approvals; soil moisture testing and recording; loading, hauling, and watering planted trees, shrubs, perennials; installing temporary irrigation systems if determined by the Contractor and approved by The City; and all related work and materials for which payment is not included elsewhere.</p> <p>.2 Payment: Lump Sum per Year..1 Scope: Includes supplying nursery-grown container perennials, protecting, hauling, offloading, and temporarily storing, if required; preparing receiving surfaces; excavation of pits and planting beds, placing planting soil; temporary stockpiling and rehandling, if required; planting, protecting, and watering; removing and disposing of deleterious materials;</p>

		<p>supplying, loading, hauling, and placing additional mulch if required; and all related work and materials for which payment is not included elsewhere.</p> <p>.2 Measurement: Shall be the in place number of perennials.</p> <p>.3 Price: Unit Price per perennial</p>
20	<p>Vegetation Establishment - Establishment logs</p> <p>Vegetation Establishment - Watering</p>	<p>.1 Scope: Includes preparing and submitting Establishment logs; pruning trees, shrubs; protecting plants, replanting trees, shrubs, perennials; and all related work and materials for which payment is not included elsewhere.</p> <p>.2 Measurement: to be filled out whenever activities are performed and submitted monthly with the progress claims.</p> <p>.3 Payment: Lump Sum per Month.1 Scope: Includes preparing and obtaining permits, if required, and obtaining approvals; soil moisture testing and recording; loading, hauling, and watering planted trees, shrubs, perennials; installing temporary irrigation systems if determined by the Contractor and approved by The City; and all related work and materials for which payment is not included elsewhere.</p> <p>.2 Payment: Lump Sum per Year</p>
21	<p>Vegetation Establishment - Establishment logs</p>	<p>.1 Scope: Includes preparing and submitting Establishment logs; pruning trees and perennials; protecting plants, replanting trees, perennials; and all related work and materials for which payment is not included elsewhere.</p> <p>.2 Measurement: to be filled out whenever activities are performed and submitted monthly with the progress claims.</p> <p>.3 Payment: Lump Sum per Month</p>
22	<p>Vegetation Establishment - Weed control Vegetation Establishment - Establishment logs</p>	<p>.1 Scope: Includes preparing submittals and obtaining approvals; supplying, loading, hauling and applying chemical herbicides; eradicating or preventing weed growth through labour and mechanical methods as described in the Contract Documents or directed by The City; and all related work and materials for which payment is not included elsewhere.</p> <p>2: Payment: Lump Sum per Month. 1 Scope: Includes preparing and submitting Establishment logs; pruning trees, perennials; protecting plants, replanting trees, and perennials; and all related work and materials for which payment is not included elsewhere.</p> <p>.2 Measurement: to be filled out whenever activities are performed and submitted monthly with the progress claims.</p>

		.3 Payment: Lump Sum per Month
23	Stage base	.1 Scope: Includes supplying, loading, hauling, handling, preparing receiving surface and installing foundations for concrete stage platform and stairs and all related work and materials for which payment is not listed elsewhere. .2 Payment: m2
24	Utility Coordination	.1 Scope: Includes the coordination of removal and relocation of existing utilities within the site boundary by external utility providers. Coordinate with ATCO on timing and removal of existing pedestrian street light. ATCO is responsible for all demolition work. Coordinate with APEX on timing and relocation of existing gas line. APEX is responsible for all excavation, relocation and backfilling of line. Ensure efficiencies are made so backfilling to the appropriate levels are suitable for proposed materials (pedestrian pavers and asphalt). .2 Lump Sum

**Part 2            Products - NOT USED**

**Part 3            Execution - NOT USED**

**END OF SECTION**