



Saskatchewan Research Network (SRNET)

REQUEST FOR PROPOSAL - BID CALL

INSTRUCTIONS TO BIDDERS

**UOFR MAIN CAMPUS TO SASKATCHEWAN POLYTECHNIC
DARK FIBER INTERCONNECT**

Document Number 006000

April 23, 2018

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150F – 2 Research Drive
Regina, SK S4S 7H9
Phone: (306) 790.7589



**SASKATCHEWAN RESEARCH NETWORK (OWNER)
UOFR MAIN CAMPUS TO SASKATCHEWAN POLYTECHNIC
FIBER INTERCONNECT**

BID FORM

TO: SRNET President and CEO
C/O Facilities Management Room 221
University of Regina
3737 Wascana Parkway
S4S 0A2

The undersigned Bidder, having carefully examined the Contract Documents and locality of the proposed work, and having full knowledge of the work required and of the materials to be furnished and used, hereby agrees to provide all necessary materials, supervision, labor and equipment and perform and complete all work and fulfill everything as set forth and in strict accordance with the Contract Documents and Addenda numbered * _____ for the prices stated in the Schedule of Quantities and Prices.

BIDDERS NAME AND ADDRESS*

(Please Print)

Phone:

Fax:

*To be completed by the Bidder.



DRAWINGS BOUND SEPARATELY IN APPENDIX A

NOTE: OPTION 1 and OPTION 2 both are included within Appendix A.

SRNET POP SITE TO SASK. Polytechnic

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SHT-02 FIRST CALL INFO CARDS
SHT-03 FIRST CALL INFO CARDS
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SD-7 DETAILS - N & O FIBER MARKERS

CONSTRUCTION PLAN BOUND SEPARATELY IN APPENDIX B

NOTE: OPTION 1 and OPTION 2 both are detailed within the Construction Plan.



The undersigned also agrees:

1. They will notify SRNET (Owner) before May 7, 2018 of their intent to bid or not. If they do not submit a bid, the Request for Proposal (RFP) package shall be returned to Owner at once and all electronic copies destroyed at once.
2. That the Owner is in no way obligated to accept this bid.
3. That Owner may, at Owner's discretion, accept other than the low bid.
4. That Owner may, at Owner's discretion, award the fiber pulling, splicing, and OTDR testing to a different Bidder separate from rest of the project award.
5. That Owner may, at Owner's discretion, accept no bid.
6. That, should the Bid Form be improperly completed or be incomplete, Owner shall have the right to disqualify and/or reject this bid.
7. That this bid is made without knowledge of the bid prices to be submitted for this work by any other company firm or person.
8. That this bid is made without any connection or arrangement with any company, firm, or person submitting a bid for this work.
9. That bid is made without any undisclosed connection or arrangement with any other company, firm, or person having an interest in this bid or in the proposed Contract.
10. That this bid is irrevocable for sixty (60) days after the closing date for receipt of bids and that Owner may at any time within such period accept this bid whether any other bid has previously been accepted or not and whether notice of award of a contract has been given or not.
11. To execute the Contract Agreement within ten (10) days of the date of the Notice of Award of the Contract, such time limit being extended only on Owner written approval.
12. To start and proceed actively with the work promptly following receipt of the Notice to Proceed, and to complete all work under the Contract no later than Sept. 3, 2018, subject to the provisions of the General Conditions for extension of Contract time.
13. To compensate Owner in accordance with the Contract Documents if the work is not completed within the Contract Time.
14. To do all extra work not reasonably inferable from the specifications or drawings but called for in writing by Engineer and to accept as full compensation therefore payment in accordance with the provisions of the General Conditions.
15. That the descriptions and estimate of quantities shown in the Bid Form serves only to provide a basis for comparing bids and that no representations have been made by either Owner or Engineer that the actual quantities will even approximately correspond therewith, and further, that Owner has the right to increase or decrease the quantities in any or all items and to eliminate items entirely from the work. It's the responsibility of the Bidder for calculating actual quantities in the drawings and construction plan.
16. That payment for the work done will be made based on the Work verified by Engineer and at the prices shown in the Bid Form which shall be compensation in full for the work done under the terms of the Contract, exclusive of GST payable by Owner.



SCHEDULE OF QUANTITIES AND PRICES

The following are our prices, exclusive of GST payable by Owner, for the cost of work for each item as outlined in the respective payment clauses in the Specifications.

CONSTRUCTION OPTON 1: SASK. POLYTECHNIC BUILD		
Item	Description	Total Price
1.0	<i>UNDERGROUND DUCT AND HANDHOLES</i>	
1.1	Directional Drilling and/or Chain Trench WS1 to WS 5	
1.2	Directional Drilling and/or Chain Trench WS6 to WS 8	
1.3	Cross Transcanada Highway WS5 to WS6	
1.4	flagman for crossing trans canada highway	
1.5	Bore 3" Conduit Into 10 Research Drive Building WS8 to WS124	
1.6	Two Hand Hole Installations with ground rods and materials.	
1.7	Fuse Conduit at all Bore Pits	
1.8	Hydrovac all Utility Crossings 2 meter depth (minimum 11)	
1.9	Hydrovac all Utility Crossings 3 meter depth (minimum 9)	
1.10	Misc. Charges-hand digging and restoring back to same or better.	
1.11	Replant Grass, and all other restoration with packing per PCC.	
1.12	Coring SaskPolytechnic foundation wall and resealing wall.	
1.13	miscellaneous charges (list details)	
SUBTOTAL 1.0 – UNDERGROUND DUCT AND HANDHOLES		
2.0	<i>INBUILDING SASK. POLYTECHNIC</i>	
2.1	Install Indoor pullbox SaskPolytechnic RM 122.1	
2.2	miscellaneous charges (list details)	
SUBTOTAL 2.0 – INBUILDING SASK. POLYTECHNIC		
3.0	<i>FIBER PULLING</i>	
3.1	WS1 to WS124 Install Fiber Cable in Duct plus pull rope & fiber coiling	
3.2	Miscellaneous charges such as ground bonding, etc. (list details)	
3.3	<i>Fiber Installation Sask. Polytechnic</i>	
3.3.1	Pull Fiber to Rm009 19" rack SaskPolytechnic Building & coiling fiber.	
3.3.2	Cafeco Blaze Shield (or similar) trowel restoration in crawlspace	
3.3.3	Miscellaneous charges such as ground bonding, etc. (list details)	
3.4	<i>Inbuilding Fiber 10 Research Dr to Education RM187</i>	
3.4.1	Pull Fiber inside cable trays & 2 inch EMT conduit to RM187 19" rack	
3.4.2	Coiling fiber in pull box 10 Research drive and under ED187	
3.4.3	Miscellaneous charges such as ground bonding, etc. (list details)	
SUBTOTAL 3.0 – FIBER PULLING		
4.0	<i>FIBER SPLICING AND TESTING</i>	
4.1	Install fiber patch panel in rack at Sask. Polytechnic RM 009	
4.2	fusion splicing 96 fibers in patch panel with pigtails (SC connectors)	
4.3	install fiber patch panel in rack at Education Building RM187	
4.4	fusion splicing 96 fibers in patch panel with pigtails (SC connectors)	
4.5	Testing - OTDR of Fiber (96 strands both ends)	
4.6	Miscellaneous charges such as ground bonding, etc. (list details)	
SUBTOTAL 4.0 – FIBER SPLICING AND TESTING		
5.0	<i>CONTRACTOR OVERHEAD FOR TRAVEL/SETUP</i>	
SUBTOTAL 5.0 – CONTRACTOR TRAVEL AND SETUP		
6.0	<i>AS-BUILT DRAWINGS</i>	
6.1	Drawings in compliance with Owner Specifications	
6.2	GPS with elevation for worksites, highway ditches & utility crossings	
SUBTOTAL 6.0 – AS-BUILT DRAWINGS		



BID SUMMARY OPTION 1: SASK POLYTECHNIC BUILD

TOTAL 1.0 – UNDERGROUND DUCT/HANDHOLES	\$ _____
TOTAL 2.0 – INBUILDING SASK. POLYTECHNIC	\$ _____
TOTAL 3.0 – FIBER PULLING RM187 TO RM009	\$ _____
TOTAL 4.0 – FIBER SPLICING & TESTING	\$ _____
TOTAL 5.0 – CONTRACTOR TRAVEL AND SETUP	\$ _____
TOTAL 6.0 – AS-BUILT DRAWINGS	\$ _____
TOTAL 7.0 – OTHER COSTS (LIST DETAILS)	\$ _____
PROVINCIAL SALES TAX (PST)	\$ _____
GOODS AND SERVICES TAX (GST)	\$ _____

OPTION 1 TOTAL WITH TAXES (NOT TO EXCEED) \$ _____

NOTES:

1. Bidders shall submit a Schedule of Work with this Bid Form showing start date and the length of time to complete the Work. Show date when the #1 Highway Crossing and ROW Work shown in CD-3 and CD-4 are fully complete.
2. All 2 inch EMT Conduit shown in BD1 through BD7 is already installed including mule tape.
3. BIDDER shall include in above prices all handhole construction materials including but not limited to reclaimed concrete, ground rods, 2x8 inch pressure treated wood base, 3” SDR 11 HDPE conduit fusion splices, Sika 212 Grout, industry approved fire stop for all cable tray wall penetrations, nylon tie straps, blaze shield or equivalent fire stop trowel patch, HDPE and EMT conduit lubricant for cable pulling, 3 inch EMT conduit 2 meter length, and all 192 fiber fusion splice tubes and pigtails with SC Connectors.
4. SRNET shall supply all polymer concrete hand holes, handhole racks, fiber cable, 3 inch SDR11 HDPE Conduit, mule tape, ground bonding kits, Hammond C3R363612HCR pull boxes, 3 inch conduit duct plugs, uni and tri cable 3 inch conduit seals, Sikaflex-1A sealant, fiber cable markers, URail Buried Fiber Markers, EMT conduit and Pull Box Fiber Warning labels, 3” ELOC coupler, 3” PVC Sweep Elbows and FOSCs.



CONSTRUCTION OPTON 2: SASK. POLYTECHNIC and UofR OVERBUILD		
Item	Description	Total Price
1.0	UNDERGROUND DUCT AND HANDHOLES	
1.1	one 24x36 Hand Hole Installation with ground rods	
1.2	two 48x72 Hand Hole Installation with ground rods	
1.3	Directional Drilling &/or Chain Trench one 3" SDR11 WS1 to WS5	
1.4	Cross Transcanada Highway three 3" conduit WS5 to WS6	
1.5	flagman for crossing trans canada highway	
1.6	Directional Drilling &/or Chain Trench three SDR11 WS6 to WS8	
1.7	Bore three 3" Conduit Into 10 Research Drive WS8 to WSI24	
1.8	Fuse all Conduits at all Bore Pits	
1.9	Coring SaskPolytechnic foundation wall	
1.10	Hydrovac all Utility Crossings 2 meter depth (minimum 11)	
1.11	Hydrovac all Utility Crossings 3 meter depth (minimum 9)	
1.12	Misc. Charges-hand digging and restoring back to same or better.	
1.13	Replant Grass, and all other restoration with packing per PCC.	
1.14	Coring SaskPolytechnic foundation wall and resealing wall.	
SUBTOTAL 1.0 – UNDERGROUND FIBER		
2.0	INBUILDING SASK. POLYTECHNIC	
2.1	Install Indoor pullbox SaskPolytechnic RM 122.1	
2.2	miscellaneous charges (list details)	
SUBTOTAL 2.0 – INBUILDING SASK. POLYTECHNIC		
3.0	FIBER PULLING	
3.1	WS1 to WSI24 Install 1 Fiber Cable in Duct with pull rope & fiber coiling	
3.2	WS5 to WSI24 Install 2 Fiber Cable in Duct with pull rope & fiber coiling	
3.3	WS6 to WSI24 Install 1 Fiber Cable in Duct with pull rope & fiber coiling	
3.4	Miscellaneous charges such as ground bonding, etc. (list details)	
3.5	Fiber installation Sask. Polytechnic WS1 to RM009	
3.5.1	Pull Fiber to Rm009 19" rack SaskPolytechnic Building & coiling fiber.	
3.5.2	Cafeco Blaze Shield (or similar) trowel restoration in crawlspace	
3.5.3	Miscellaneous charges such as ground bonding, etc. (list details)	
3.6	Inbuilding Fiber 10 Research Dr WSI24 to Education RM187	
3.6.1	Pull 4 Fiber cables inside cable trays & mule tape	
3.6.2	Pull 4 Fiber cables in one 2 inch EMT conduit & mule tape to RM187 rack	
3.6.3	Coiling 4 fiber in pull box 10 Research drive and ED187	
3.6.4	Miscellaneous charges such as ground bonding, etc. (list details)	
SUBTOTAL 3.0 – FIBER PULLING		
4.0	FIBER SPLICING AND TESTING	
4.1	install fiber patch panel RM 009 Sask. Polytechnic	
4.2	RM009 fusion splice 96 fiber cable with pigtails (SC Connectors)	
4.3	miscellaneous charges (list details)	
4.4	install one fiber patch panel Education Building RM187	
4.5	ED RM187 fusion splice 96 fiber cable with pigtails (SC Connectors)	
4.6	Testing - OTDR of 4 Fiber cables (96 strands each cable both ends)	
4.7	Miscellaneous charges such as ground bonding, etc. (list details)	
SUBTOTAL 4.0 – FIBER SPLICING AND TESTING		
5.0	Contractor Travel and Setup	
SUBTOTAL 5.0 – CONTRACTOR TRAVEL AND SETUP		
6.0	As-Built Drawings	
6.1	Drawings in compliance with Owner Specifications	
6.2	GPS with elevation for worksites, highway ditches & utility crossings	
SUBTOTAL 6.0 – AS-BUILT DRAWINGS		



BID SUMMARY OPTION 2: SASK POLYTECHNIC AND SRNET OVERBUILD

TOTAL 1.0 – UNDERGROUND DUCT/HANDHOLES	\$ _____
TOTAL 2.0 – INBUILDING SASK. POLYTECHNIC	\$ _____
TOTAL 3.0 – FIBER PULLING RM187 TO RM009	\$ _____
TOTAL 4.0 – FIBER SPLICING & TESTING	\$ _____
TOTAL 5.0 – CONTRACTOR TRAVEL AND SETUP	\$ _____
TOTAL 6.0 – AS-BUILT DRAWINGS	\$ _____
TOTAL 7.0 – OTHER COSTS (LIST DETAILS)	\$ _____
PROVINCIAL SALES TAX (PST)	\$ _____
GOODS AND SERVICES TAX (GST)	\$ _____

OPTION 2 TOTAL WITH TAXES (NOT TO EXCEED) \$ _____

NOTES:

1. Bidders shall submit a Schedule of Work with this Bid Form showing start date and the length of time to complete the Work. Show date when the #1 Highway Crossing and ROW Work shown in CD-3 and CD-4 are fully complete.
2. All 2 inch EMT Conduit shown in BD1 through BD7 is already installed including mule tape.
3. BIDDER shall include in above prices all handhole construction materials including but not limited to reclaimed concrete, ground rods, 2x8 inch pressure treated wood base, 3” SDR 11 HDPE conduit fusion splices, Sika 212 Grout, industry approved fire stop for all cable tray wall penetrations, nylon tie straps, blaze shield or equivalent fire stop trowel patch, HDPE and EMT conduit lubricant for cable pulling, 3 inch EMT conduit 2 meter length, and all 192 fiber fusion splice tubes and pigtails with SC Connectors.
4. SRNET shall supply all polymer concrete hand holes, handhole racks, fiber cable, 3 inch SDR11 HDPE Conduit, mule tape, ground bonding kits, Hammond C3R363612HCR pull boxes, 3 inch conduit duct plugs, uni and tri cable 3 inch conduit seals, Sikaflex-1A sealant, fiber cable markers, URail Buried Fiber Markers, EMT conduit and Pull Box Fiber Warning labels, 3” ELOC coupler, 3” PVC Sweep Elbows and FOSCs.



This bid is executed under seal at _____ this _____ day of _____, 20__.

Name of Firm

Address

For Individual or Partnership:

SIGNED, SEALED AND DELIVERED by:

Bidder (please print)

Signature

in the presence of:

Title

Name

Address

City/Province/PC

Occupation

Seal

For Limited Company:

The Corporate Seal of:

Bidder (please print)

was hereunto affixed in the presence of:

Authorized Signing Officer Title

Seal

Authorized Signing Officer Title

NOTE: If the bid is by joint venture, add additional forms of execution for each member of the joint venture in the appropriate form or forms as above.

END OF DOCUMENT



150F – 2 Research Drive
Regina, SK S4S 7H9
Phone: (306) 790.7589



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INTRODUCTION

Saskatchewan Research Network Inc. (SRNET) is a member-driven, not-for-profit organization that provides advanced information technology and collaborative leadership to support education, research and innovation in Saskatchewan. We are the Saskatchewan partner of Canada's National Research and Education Network.

Through SRNET's connection, our members link in to 112 international advanced networks in over 80 countries. Membership is open to all research, education and innovation organizations and institutions in Saskatchewan. By providing low-cost, robust and advanced infrastructure, SRNET encourages discovery and innovation within the province. SRNET is an integral piece of Saskatchewan's innovation and education infrastructure, promoting a brighter future for Saskatchewan.

SRNET advocates for a robust and accessible high-bandwidth infrastructure that spans Saskatchewan to support the province's education, research and innovation initiatives. Our network fosters growth in Saskatchewan by enabling proof of concepts, testing of ideas, and the development and assessment of new applications and products, as well as reducing IT costs for our members.

A fiber route has been designed by SRNET between the SRNET main campus and the Saskatchewan Polytechnic Regina campus to interconnect the two locations. The purpose of the fiber interconnect is to join the two campuses with single mode dark fiber optic cable and to provision for future Interconnections to the University of Regina via the Ring Road Overbuild fibers in the underground meet me handholes.



PART 1 – BID CALL

- .1 Your firm is invited to submit a bid for this Work. The Saskatchewan Research Network (Owner) will receive offers signed, executed and dated to:

**Attn: Mr. Neil McClughan,
SRNET President and CEO
C/O Facilities Management Room 221
University of Regina
3737 Wascana Parkway
S4S 0A2**

Receptionist Phone Number for Bid Deliveries: 306-585-4639

Bids shall be received up to **11:00 a.m.**, Regina Time, on the **14th** day of **May 2018** herein referred to as the "**Bid Closing Date**". Optionally, scanned signed and sealed Bids maybe emailed to SRNET on or before the Bid Closing Date and time to **nmccclughan@srnet.ca**.

- .2 Offers submitted after this time will be returned to the Bidder unopened.
- .3 Offers will be opened in public immediately after the time for receipt of Bids at the location in Part 1.
- .4 Amendments to the submitted offer will be permitted if received in writing prior to the Bid Closing Date and if endorsed by the same party or parties who signed and sealed the offer.
- .5 **Deliver amendments in sealed envelope prior to Bid closing.**

PART 2 – INTENT

- .1 The intent of this Bid Call is to obtain a formal offer to construct and complete:

**OPTION 1: SASK POLYTECHNIC BUILD or
OPTION 2: SASKPOLYTECHNIC AND SRNET OVERBUILD**

NOT BOTH BUILD OPTIONS TO BE BUILT

herein referred to as the "Work" located at

**University Of Regina Main Campus in Regina across the
TransCanada highway to the Saskatchewan Polytechnic Regina
campus.**

- .2 The work of this project is generally described as follows:



All construction required to install buried and inbuilding fiber optic cable as per the attached Construction Drawings in Appendix A, and the Construction Plan in Appendix B, from the University of Regina Education Building RM187 through Innovation Place and across the TransCanada highway to Saskatchewan Polytechnic Regina RM009.

PART 3 – QUERIES / ADDENDA

- .1 Direct questions to **Joe Toth at 204.998.8325 (joe.toth@thriveltd.com)**, or to Neil McClughan at 306-790-7589 (nmclughan@srnet.ca).
- .2 Addenda may be issued during the bidding period. All addenda become part of the contract Documents. Include all Work costs in the Bid Price.
- .3 Verbal answers are only binding when confirmed by written addenda.
- .4 Clarifications requested by bidders must be in writing, no later than 7 days prior to Bid closing. Reply will be made in writing, a copy of which will be forwarded to known bidders.

PART 4 – BID SUBMISSION

- .1 **BID INELIGIBILITY**
 - .1 Bids that are unsigned, improperly executed, incomplete, conditional, illegible, obscure, contain arithmetical errors, or additions not called for, reservations, erasures, alterations, or irregularities of any kind, may - in the sole discretion of the Owner, be declared informal.
 - .2 Bids with Bid Forms and enclosures that are improperly prepared may, in the sole discretion of the Owner, be declared informal.
 - .3 Bids that fail to include proof of insurance requirements may, in the sole discretion of the Owner, be declared informal.
- .2 **BID SUBMISSION**
 - .1 Visit the project site and surrounding area before submitting a Bid. A Tender Document review will be held on April 27, 2018 at 1pm.
 - .2 Bidders are solely responsible for delivery of their Bids in the manner and time prescribed.
 - .3 Submit one copy of the Bid Forms for both Option 1 and Option 2 as provided, signed and sealed, together with the required WCB certificate of good standing in an opaque envelope, **clearly identified with the bidder's name, project name and Owner's name on the outside**. Optionally, scanned signed and sealed Bids maybe emailed to SRNET on or before the Bid Closing Date and time.



- .4 One set of Bid Documents will be available for each Bidder. All Bidders are requested to return Bid Documents to the above address in Part 1 – BID CALL, within 7 days after Bid Closing Date.

.3 BID ACCEPTANCE

- .1 Bids shall be open to acceptance and shall be irrevocable for a period of sixty (60) days after the Bid closing date. The Saskatchewan Research Network, herein referred to as the “Owner”, will make efforts to expedite the Bid Review Process and alert the successful Bidder prior to the expiration of the sixty (60) day review period.
- .2 The Owner reserves the right to accept the Bid that is deemed most advantageous, in its sole discretion. The lowest or any Bid will not necessarily be accepted.
- .3 After acceptance, the Owner will forward to the successful Bidder, an Acceptance of Bid Letter and the Agreement between the Owner and the Contractor which is to be signed and in doing so, the successful Bidder agrees and complies with conditions stated in the Letter and the Agreement.

.4 OMISSIONS/DISCREPANCIES/INTERPRETATIONS

- .1 Bidders finding discrepancies or omissions in the drawings or specifications or having doubt as to the meaning or intent thereof, shall at once notify the Owner as per Part 3 who will, if necessary, send written instructions or explanations to all Bidders.
- .2 Oral interpretations made to any Bidder shall not effect a modification of any provision of the Bid Documents.

PART 5 – EXAMINATION OF SITE

- .1 The Bidder, either personally or through a representative, shall examine the Place of the Work before submitting a Bid, and shall become fully acquainted with the Nature of the Work, the equipment and facilities needed preliminary to and during the prosecution of the work, the means of access to the Work place, on-site accommodation, all necessary information as to risks, contingencies and circumstances which may affect the Bid and all matters which can in any way affect the Work. The Bidder is fully responsible for obtaining all information required for the preparation of the Bid.
- .2 ***A tender document technical review of the Construction Drawings will be held at 10 Research Drive on April 27, 2018 at 1pm sharp in Boardroom B. Attendance is optional.***



- .3 Claims for additional costs will not be entertained with respect to conditions that could be reasonably ascertained during the site visit. All bids are considered to be a not to exceed price for the Work.

PART 6 – PERFORMANCE PROTECTION

- .1 The successful bidder shall be required to accept a 10% deficiency holdback amount of the total bid price that will be withheld from invoices of the successful bidder for a period of 6 months from the completion date of the Work to cover any un-dealt issue created by the Work completed by the Contractor.

PART 7 – INSURANCE

- .1 The successful bidder shall be required to provide all provisions for insurance as in General Conditions (GC) Article 29.
- .2 The costs of all insurances shall be included in the Bid Price.

PART 8 – WORKERS COMPENSATION

- .1 The successful bidder shall be required to provide evidence that all requirements of the Saskatchewan Workers Compensation Board have been complied with.

PART 9 – WARRANTIES

- .1 The successful bidder shall be required to provide all provisions for warranties as in General Conditions (GC) Article 27.1.
- .2 The costs of all warranties shall be included in the Bid Price.

PART 10 – BID SIGNING

- .1 The Bid must be executed under seal by the Bidder. If the Bidder is an individual or a partnership, the Bid shall be executed by the individual or a partner in the presence of a witness and the signer must show the capacity in which he signs (e.g. "Partner" or "Proprietor"). If the Bidder is a corporation, the Bid shall be executed under the seal of the company, affixed in the presence of the authorized officers or two directors. If the Bidder is a joint venture, each party to the joint venture shall execute the Bid under seal in the manner appropriate to such party.

PART 11 – LABOR CONSTRUCTION GUIDELINES

- .1 The Contractor shall manage and perform all the in-building and underground construction for the Saskatchewan Research Network as a “turn key” project to



- have fiber optic cable installed in the City of Regina as per the Saskatchewan Research Network fiber route drawings attached as Appendix A.
- .2 The Contractor shall manage and perform all the in-building and underground construction for the Saskatchewan Research Network as a “turn key” project to have fiber optic cable installed in the City of Regina as per the Saskatchewan Research Network Fiber Construction Plan attached as Appendix B.
 - .3 The Contractor shall install all in-building and underground conduit, fiber optic cables (all in-building and underground), hand holes, pull boxes, FOSCs, and grounding as per the Saskatchewan Research Network fiber route drawings included in Appendix A and the Construction Plan in Appendix B.
 - .4 The Contractor shall install the fiber optic cable across the TransCanada highway as per the Saskatchewan Research Network fiber route drawings included in Appendix A and the Construction Plan in Appendix B.
 - .5 The Contractor shall install the fiber cable across the TransCanada Highway in full compliance with the Ministry of Highways and Transportation standards.
 - .6 The Contractor shall install the fiber optic cable across TransCanada and in the ROW in full compliance with the City of Regina standards.
 - .7 Require Contractor to carry automobile and equipment insurance as per General Conditions (GC) Article 29.
 - .8 Require Contractor to have liability insurance for property damage and personal injury as per General Conditions (GC) Article 29.
 - .9 Require Contractor to have a Worker’s Compensation Insurance clearance certificate.
 - .10 Require Contractor to pay Saskatchewan WCB premiums for their workers who work in Saskatchewan.
 - .11 Require Contractor to pay UI and CPP premiums for their workers who work in Saskatchewan.
 - .12 All Contractor employees are not employees of SRNET for the duration of the project.
 - .13 As built drawings are to be supplied back to SRNET upon completion of the fiber installation in compliance with Appendix A, including GPS locations of all Work Sites and Utility crossing along with depth of crossings.
 - .14 Optical Time Domain Reflectometer (OTDR) scans of each fiber strand within the cable must be performed and the test results supplied by the contractor to



SRNET prior to final completion of the project. The contractor shall be liable for any damaged fiber strands due to the fiber installation.

- .15 The Contractor is responsible to comply with all City of Regina, construction standards.
- .16 The contractor is responsible for working with and obtaining locates from all the stakeholders identified within the route drawings in Appendix A, which includes but is not limited to SaskPower, SaskEnergy, Transgas, City of Regina, Provincial Capital Commission, SaskTel, Access Communications, Rogers Communications, Bell MTS, Shaw, Telus, Innovation Place, and UofR Facilities Management.
- .17 The contractor must perform all clean up and restoration after the fiber installation is completed to standards of each of City of Regina, Provincial Capital Commission, UofR, Innovation Place, Ministry of Central Services, and Sask. Polytechnic. All excavations for Work Sites shall use native backfill compacted to 98% Proctor.
- .18 As-built drawings must all be completed as per City of Regina drawing standards in AutoCad 2018.
- .19 Traffic Management must be performed by the Contractor as per City of Regina, Innovation Place, and the Ministry of Highway and Transportation standards.
- .20 Any Tree trimming on all Right of Ways must be done by the Contractor as per City of Regina, UofR, and Provincial Capital Commission standards.
- .21 A GPS survey of the route from WS1 through WSI25 shall be performed by the contractor & shown on the AutoCAD as built drawings. For all Utilities crossed, the elevation & depth of the crossings shall be shown in the As Built drawings.
- .22 An elevation survey of the route from WS6 handhole through to WS8 bore pit shall be performed by the contractor and shown on the AutoCAD as built drawings.
- .23 The Contractor shall comply with all standards of Provincial Capital Commission.
- .24 The Contractor shall comply with all construction standards of SaskPower for the 25KV and the 72KV easement crossings of the fiber optic cable.
- .25 The Contractor shall comply with all underground construction standards of SaskPower.
- .26 The Contractor shall comply with all underground construction standards of SaskEnergy and TransGas.



- .27 The Contractor shall perform fiber splicing as shown on the Saskatchewan Research Network fiber route drawings.
- .28 The Contractor shall work with the Saskatchewan Research Network's selected suppliers.
- .29 The Contractor shall perform all the in-building construction in the Sask Polytechnic Building as per the design drawings and the Sask. Polytechnic and Ministry of Central Services building construction standards.
- .30 The Contractor shall perform all the in-building construction in the 10 Research Drive, 6 Research drive, tunnels to Heating Plant and Education building, and the Education Building on the main campus as per the design drawings, and per the UofR and Innovation Place building construction standards.
- .31 The Contractor is responsible to make arrangements for parking with Innovation Place while working on site. Parking in the loading areas is only allowed while moving equipment and accepting deliveries.
- .32 Contractor requires an excavation authorization from Innovation Place prior to any work commencing on Innovation Place lands.
- .33 The Contractor optionally may have registration with the Saskatchewan Certificate of Recognition (COR®) Program.
- .34 The Contractor shall install fiber route markers along the underground part of the route in compliance with City of Regina, Ministry of Highways and Transportation, Innovation Place, and the Provincial Capital Commission construction standards.
- .35 The Contractor shall install fiber markers on the fiber cable along the route as per the design drawings along both inbuilding and outdoor areas.
- .36 The Contractor will contact and perform liason activities with the following organizations. The Contractor shall fully comply with all regulations affecting the Work imposed by the following organizations. The list includes, but is not limited to, the following organizations.
 - City of Regina,
 - SaskTel, Access Communications, SaskPower and SaskEnergy,
 - Bell MTS, Rogers Communications, and Telus,
 - Ministry Of Highways and Transportation,
 - Ministry Of Central Services,
 - Provincial Capital Commission,
 - Sask Polytechnic,
 - UofR Facilities Management and Innovation Place,
 - Ground Engineering and Walker Project Engineers,
 - 20/20 Geomatics and Land Titles (ISC).



SAMPLE CONTRACT FIBER INSTALLATION GENERAL CONDITIONS

GC1 - DEFINITIONS

- 1.1 In this Agreement:
- .1 "*Project Manager*" or "*Engineer*" means the person designated from time to time by the Saskatchewan Research Network to exercise such power, authority, or discretion required of him under the Contract.
 - .2 "*Contract*" or "*Agreement*" means the written agreement made between the Saskatchewan Research Network and the Contractor for the performance of the Work including any applicable specifications and drawings.
 - .3 "*Contract Documents*" means all elements of Specifications and drawings including all addenda and items issued since the issuance of the Invitation to Bid and which form part of the Agreement.
 - .4 "*Contractor*" means the person whose Bid for performance of the Work has been accepted by SRNET or the person to whom SRNET has issued the work order describing the Work.
 - .5 "*Work*" means all or any labour, supervision, materials, equipment, structures, services, supplies and acts required to be furnished or performed by the Contractor under the Contract.
 - .6 "*Site*" means the place or places where the Work is to be performed.
 - .7 "*Owner*" means the Saskatchewan Research Network. From this point forward, the Saskatchewan Research Network will be referred to as the "Owner".

GC2 - INTERPRETATION

- 2.1 If during the performance of the Contract, the Contractor finds a conflict or error in the Contract, or has a question about the Contract, the Contractor shall notify the Project Manager immediately.
- 2.2 The Contractor is an independent Contractor and nothing in this Contract shall be construed as rendering the Contractor an employee, servant or agent of the Owner.
- 2.3 The Contract shall be governed by the laws of the Province of Saskatchewan.
- 2.4 The Project Manager shall be the initial interpreter of the Contract.

GC3 – INSPECTION OF SITE

- 3.1 The Contractor shall be deemed to have investigated the Site and informed himself of all conditions concerning the Work.

GC4 - PERFORMANCE OF WORK

- 4.1 The Contractor shall perform the Work under the direction of the Project Manager and comply with the Project Manager's instructions on any matter concerning the Work.
- 4.2 As directed by the Project Manager, the Contractor shall co-operate with other Contractors or employees of the University, Innovation Place and/or Sask. Polytechnic and shall allow them access to the Work and Site.
- 4.3 In no event shall the Project Manager be responsible for the acts or omissions of the Contractor and no act or omission by the Project Manager shall relieve the Contractor from his obligation to perform the Work in accordance with the Contract.
- 4.4 All duties, responsibilities and obligations assigned to or undertaken by the Contractor under the terms of the Contract shall be at the Contractor's expense without change in the Contract price unless otherwise specified.

GC5 - TERMS OF PAYMENT

- 5.1 The Contractor may submit invoices monthly, for the value of the Work satisfactorily performed to date, less holdback as called for in the Builders' Lien Act. All payments will be made in accordance with the Builders' Lien Act of Saskatchewan, less the sum of previous payments made under the Contract.
- 5.2 Payments for approved invoices will be due and made within 30 days of the invoice date.
- 5.4 Prior to release of holdback, the Contractor will be required to provide letters of clearance from the Worker's Compensation Board and Saskatchewan Finance (Education and Health Tax) and a sworn statement that all accounts for labor, subcontracts, materials, etc. relative to the project have been paid.

GC6 - TIME

- 6.1 Time shall be of the essence of this Contract.
- 6.2 If, in the opinion of the Project Manager, conditions beyond the Contractor's control delay the Work, the Project Manager may, in his sole discretion, grant an extension of time for completion of the Work.

GC7 - COMPLIANCE WITH LEGISLATION

- 7.1 The Contractor shall comply with all legislation affecting the performance of the Contract and shall give all notices, pay all fees and taxes and obtain all required permits.

GC8 - SAFETY

- 8.1 At the University of Regina, Innovation Place, and Saskatchewan Polytechnic, all measures shall be constantly taken for ensuring safety to staff, students and children.



The Contractor shall be solely responsible for construction safety at the Place of Work and for compliance with the rules, regulations, and practices required by the Owner, by each of the parties on whose lands Work is undertaken, as well as applicable construction health and safety legislation and shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Work. The Contractor shall provide and maintain adequate signs, fences, barricades, and take all necessary precautions for the protection of the Work and to protect the public, workers, public and private property from injury or damage. The Owner shall have access to the Place of Work and the Contractor will comply with all reasonable directions of the Owner in insuring compliance with lawful requirements for construction safety at the Place of Work.

GC9 – WORK AT RISK OF CONTRACTOR UNTIL COMPLETION

- 9.1 Any damage to the Work before completion of the contract shall be borne by the Contractor and all Work under the Contract shall be done at his risk until completion.

GC10 - PROTECTION OF WORK

- 10.1 The Contractor shall provide the necessary protection to prevent damage or loss to the Work and shall repair any damage however caused, at his own expense.

GC11 - CLEAN UP

- 11.1 The Work shall not be considered complete until the Contractor has cleared and cleaned the Site to the satisfaction of the Project Manager.

GC12 - MATERIALS AND WORKMANSHIP

- 12.1 Unless otherwise authorized by the Project Manager all materials shall be new, and workmanship and materials shall be of the quality best suited for the purpose required.

GC13 - LABOUR

- 13.1 All labor at the Site shall be performed during working hours as established by the Project Manager.
- 13.2 The Contractor shall promptly remove from the Site any person who in the opinion of the Project Manager is incompetent or who has been conducting himself improperly.

GC14 – CONTRACTOR NEGLIGENCE

- 14.1 The Contractor agrees that it shall be responsible to the Owner for its negligence and that it shall reimburse the Owner for any damages sustained by the Owner by reason of the negligence of the Contractor, its agents, servants, employees or anyone acting on its behalf.



GC15 - INSPECTION

- 15.1 The Work shall at all times be subject to inspection by the Project Manager and the Contractor shall give the Project Manager adequate notice of the readiness of the Work for any required or scheduled inspection.
- 15.2 If the Contractor covers or permits to be covered any part of the Work that requires inspection before such inspection is made, he shall, if directed by the Project Manager, uncover the Work, arrange for the required inspection and make good anything destroyed or damaged in the course of uncovering the work, at his own expense.
- 15.3 The Project Manager may, at any time prior to expiration of any warranty period, require that the Work be uncovered for inspection and if the Work is found to be defective the Contractor shall pay the costs of uncovering the Work and making good anything damaged or destroyed in the course of uncovering such Work.

GC16 - DEFECTS

- 16.1 The Project Manager may reject, as being defective, all or any portion of the Work which in his opinion fails to conform to the Contract.
- 16.2 The Contractor shall promptly correct any Work rejected by the Project Manager and shall promptly make good anything destroyed or damaged in the course of correcting such rejected Work.
- 16.3 The Owner may deduct from the Contract Price an amount, as determined by the Project Manager, equal to the difference in value between the Work as performed and the Work as called for by the Contract.

GC17 - CHANGES IN THE WORK

- 17.1 The Owner may by written notice to the Contractor, make changes in the Work requiring additions to or deletions from the Work.
- 17.2 If an addition or deletion of the Work is authorized, the Contract price shall be adjusted by negotiation between the Owner and the Contractor to reflect the value of the Work added or deleted.

GC18 - SUSPENSION OF THE WORK

- 18.1 The Contractor shall, on the written order of the Project Manager, suspend the Work for such time as the Project Manager considers necessary and shall during such suspension properly protect the Work as required by the Project Manager.

GC19 - DISCRETIONARY CANCELLATION

- 19.1 Upon seven (7) days written notice to the Contractor, the Owner may cancel the Work or any uncompleted part of the Work and the Owner shall pay for all portions of the Work executed and shall reimburse the Contractor for reasonable termination expenses as determined by the Project Manager.



GC20 - DEFAULT OF CONTRACTOR

- 20.1 If the Contractor becomes bankrupt, insolvent or breaches any term of the Contract, the Owner may, without notice, terminate the services of the Contractor.
- 20.2 Upon the termination of the services of the Contractor, the Owner may exclude the Contractor from the Site, take possession of the Work and any materials on Site and complete the Work.
- 20.3 Upon the termination of the services of the Contractor, the Owner may withhold further payments to the Contractor until final completion of the Work and the Owner may charge the Contractor the amount by which the cost of completing the Work exceeds the unpaid balance of the Contract Price.

GC21 - COMPLETION CERTIFICATE

- 21.1 If the Project Manager is satisfied that the Contractor has completely fulfilled the requirements of the Contract, the Project Manager, upon written application by the Contractor, shall issue a completion certificate to the Contractor.
- 21.2 The application by the Contractor for a completion certificate shall constitute a waiver by the Contractor of all claims against the Owner, except those made in writing prior to such application and still unsettled.

GC22 - PATENTS, COPYRIGHTS AND OTHER PROTECTED RIGHTS

- 22.1 The Contractor shall defend all claims, actions or proceedings against the Owner based on any allegation that the Work constitutes an infringement of any patent, copyright or other protected right and shall indemnify and save harmless the Owner against all claims and actions arising out of an infringement or alleged infringement of any patent, copyright or other protected right.

GC23 - TAXES AND DUTIES

- 23.1 Unless otherwise provided, the Contractor shall pay all applicable sales, use and excise taxes and custom duties arising as a result of the performance of the Contract.
- 23.2 The Contractor shall be the importer of all goods manufactured outside Canada.

GC24 - PAYMENTS BY CONTRACTOR

- 24.1 The Contractor shall pay all charges for labour (including Worker's Compensation assessment), materials, services, and all other charges when they become due and at the request of the Owner shall furnish proof of such payment.

GC25 - THE OWNER'S RIGHT TO PERFORM

- 25.1 If the Contractor fails to perform any obligation under the Contract, the Owner may perform such obligation and charge all costs of such performance to the Contractor.



GC26 - COSTS CHARGED TO CONTRACTOR

- 26.1 All costs charged to the Contractor under the Contract shall constitute a debt due and owing by the Contractor to the Owner and shall be paid to the Owner on demand or may be deducted by the Owner from monies due by the Owner to the Contractor or may be recovered by the Owner from the Contractor or his surety.

GC27 - PERFORMANCE PROTECTION

- 27.1 Warranty - The Contractor warrants that the Work will be in accordance with the Contract and will not be defective, for a twelve (12) month period following completion of the Work. Work found to be defective, including any restoration, during the warranty period shall be corrected by the Contractor at his expense.

GC28 - SUBCONTRACTORS

- 28.1 The Contractor shall not employ any subcontractor to perform any part of the Work without first obtaining the written authorization of the Project Manager.

GC29 - INSURANCE

- 29.1 Prior to commencing Work on the site, the Contractor shall provide evidence of Comprehensive General Liability insurance with limits not less than \$5,000,000 per occurrence and automobile third party liability Insurance with respect to licensed vehicles with limits not less than \$5,000,000 per occurrence. Coverage will include Owner's Protective Liability, Products and Completed Operations, Blanket Contractual Liability, Occurrence Property Damage and provisions for Cross Liability and Severability of Interests.

The Comprehensive General Liability Insurance shall be in the joint names of the Contractor, the Owner, Saskatchewan Opportunities Corporation, and Her Majesty The Queen in Right of the Province of Saskatchewan as additional insured's for liability arising out of the operation of the contractor.

The insurance policy shall also contain a clause stating that the insurer will neither terminate nor alter the policy to the prejudice of Saskatchewan Opportunities Corporation and the other named insured's without giving notification of at least sixty (60) days.

The cost of these insurances shall be included in the Contract Price.

The insurance shall remain in force during the term of the Contract, including warranty period.

GC30 - DAMAGES AND INDEMNIFICATION

- 30.1 The Contractor shall assume the defense of and shall indemnify and save harmless the Owner, its agents and employees from and against all claims, damages, losses, expenses and liabilities arising out of or resulting from the performance or non-performance of the Contract by the Contractor, his agents, employees and subcontractors.



GC31 - REMEDIES CUMULATIVE

- 31.1 All rights and remedies of the Owner and the Contractor may be exercised and continued concurrently or in the alternative and all such rights and remedies shall be in addition to any right or remedy otherwise available.

GC32 - WAIVER

- 32.1 No waiver by the Owner of any breach by the Contractor in the performance of the Contract shall be deemed to be a waiver of any other or additional breach.
- 32.2 Failure by the Owner to exercise any right or remedy arising out of any breach of the Contract by the Contractor shall not constitute a waiver of such right or remedy.

GC33 - CLAIMS AND ARBITRATION

- 33.1 Any claims that the Contractor may have against the Owner shall be presented to the Project Manager in writing not later than seven (7) days after the occurrence of circumstances giving rise to the claim, otherwise the Contractor shall be deemed to have absolutely waived such claim.
- 33.2 If the Owner or the Contractor is dissatisfied with any decision of the Project Manager, either party may, within twenty-eight (28) days of receiving notice of such decision, submit the matter to arbitration in accordance with The Arbitration Act of Saskatchewan.
- 33.3 The presentation of any claim or the submission of any matter to arbitration shall not be grounds for delay or interruption of the Work.

GC34 - ASSIGNMENT, ENUREMENT AND SURVIVAL

- 34.1 The Contractor shall not assign the Contract, in whole or in part, without the prior written consent of the Owner.
- 34.2 Subject to General Conditions (GC) Article 32.1; the Contract shall ensure to the benefit of and be binding upon the Owner and the Contractor and their respective successors and assigns.
- 34.3 All representations, warranties and guarantees contained in the Contract Documents shall survive final payment, termination or completion of the Contract.

GC35 - EXTENSION OF CONTRACT TIME

The Contract Time may be extended in the event of one (1) or more of the following:

- .1) Where changes to the Work are made as provided for in General Conditions (GC) Article 17.
- .2) Where the Work is suspended as provided for in General Conditions (GC) Article 18.
- .3) Where the Work is delayed on account of conditions which could not have been foreseen or which were beyond the control of the Contractor and



which were not the result of fault or negligence of the Contractor, his agents, or employees, provided however that rain, wind, flood, or other natural phenomena of normal intensity for the area shall not be construed as cause for an extension of Contract Time.

- .4) Where delay occurs in the progress of the work as a result of the act or neglect of the Owner or his employees, or by other contractors employed by the Owner.
- .5) Where delay occurs as a result of an act of a public authority.
- .6) Where the Engineer causes delay in furnishing drawings or necessary information.
- .7) Where strikes, lockouts, or labour disputes prevent or substantially interfere with the progress of the Work. If a strike or lockout affects workers of several classifications and such strike or lockout ends on different dates, the end of the strike or lockout will be deemed to occur when all workers of a classification required to organize or begin performance of the work are permitted to work for the Contractor.
- .8) Where, in the opinion of the Engineer, the Contractor is entitled to an extension of Contract Time.

A claim for extension of Contract Time shall only be considered when submitted by the Contractor to the Engineer in writing within seven (7) days of the occurrence on which the claim is based, provided, however, that in the case of a continuing cause of delay only one (1) claim shall be necessary. Within a reasonable period after the Contractor submits a request for an extension of Contract Time, the Engineer will present his written recommendation to the Owner stating his opinion on whether or not an extension of Contract Time is justified; and, if so, the number of days extension due to the Contractor. The Owner will make the final decision on all requests for extension of Contract Time.

The granting of an extension of Contract Time pursuant to this Article shall not give the Contractor grounds to make any claims whatsoever for additional payment, save on the grounds set out in General Conditions (GC) Article 35.2 or 35.4 above.



GENERAL REQUIREMENTS

1.1 SUMMARY OF WORK

- .1 Contract Method: Construct the Work under a single unit price, not to exceed.
- .2 Cooperate with Owner in scheduling operations to minimize conflict and to facilitate Owners requirements.
- .3 Owner will provide two (2) copies of drawings and specifications to Contractor.
- .4 Additional copies of drawings and specifications are available upon request at an additional cost.
- .5 Maintain at Site one complete set of drawings and specifications. Make available to Engineer at any time.

1.2 PROJECT COORDINATION

- .1 Coordinate progress of the Work, progress schedules, submittals, use of site, temporary utilities, construction facilities and controls.

1.3 HOURS OF WORK

- .1 Perform Work in conformity with all municipal bylaws with respect to noise control, hours of work, night work and holiday work.
- .2 Obtain written permission of Engineer before undertaking holiday work or night work.

1.4 RELICS AND ANTIQUITIES

- .1 Relics and antiquities and items of historical or scientific interest such as cornerstones and contents, commemorative plaques, inscribed tablets, and similar objects found on site or in buildings to remain property of Owner. Protect such articles and request directives from Engineer.
- .2 Notify Engineer immediately if evidence of archaeological finds is encountered and await Engineer's written instructions before proceeding with work in area.

1.5 PROJECT MEETINGS

- .1 Engineer will administer the preconstruction meeting and project progress meetings to be held approximately twice per month once construction commences.
- .2 Attend all project meetings.

1.6 PROJECT CLOSEOUT

- .1 When the Work is Substantially Performed, remove surplus products, tools, construction machinery and equipment not required for performance of remaining Work.

- .2 Remove waste materials and debris from site at regularly scheduled times or dispose of as directed by Engineer. Do not burn waste materials on site, unless approved by Engineer in writing.
- .3 Prior to application for certificate of Substantial Performance, carefully inspect the Work and ensure it is complete, that major and minor construction deficiencies are complete, defects are corrected and all in building areas are clean and in condition for occupancy. Notify Engineer, in writing, of satisfactory completion of the Work and request an inspection.
- .4 During Engineer inspections, a list of deficiencies and defects will be tabulated. Correct same.
- .5 When Engineer considers deficiencies and defects have been corrected and it appears requirements of Contract have been performed, make application for certificate of Substantial Performance. Refer to General Conditions for specifics of application.

1.7 SCHEDULE

- .1 Construction progress schedules are required.
- .2 The City of Regina is hosting the Canadian Ladies PGA Golf tournament at the Wascana Golf and Country Club between July 16 and Sept 10, 2018. No construction is allowed in the City Of Regina ROW by Wascana parkway and the #1 Highway during this time.

A schedule shall be included with the Bid submission for the fiber project work indicating when to complete all of WS4 through WS6 SDR11 conduit and handhole installation Work between July 3 and July 16, 2018. All the other remaining Work for the project can be completed after July 16, 2018 as the remaining Work is on private lands not owned by the City.

If a Bidder is unable to accommodate this schedule then the Work can begin on August 27, 2018 through September 28.

All the Work shall be completed including the fiber OTDR testing no later than September 28, 2018.

- .2 Bidders are required to submit their schedule of Work with Bid Form.

1.8 QUALITY CONTROL

- .1 Owner, Project Manager, and Engineer shall have access to Work.
- .2 Give timely notice requesting inspection of Work as designated for inspections or approvals by Engineer instructions, or law of Place of Work.
- .3 Independent Inspection/Testing Agencies will be engaged by Owner for purpose of inspecting and/or testing portions of Work. Cost of such services will be borne by Owner.

1.8 BASIC PRODUCT REQUIREMENTS

- .1 Products, materials, equipment and articles incorporated in Work shall be new, not damaged or defective, and conforming with specifications for purpose intended. If requested, furnish evidence as to type, source and quality of Products provided.
- .2 Defective Products will be rejected, regardless of previous inspections. Inspection does not relieve responsibility but is precaution against oversight or error. Remove and replace defective Products at own expense and be responsible for delays and expenses caused by rejection.
- .3 Handle and store Products in manner to prevent damage, adulteration, deterioration and soiling and in accordance with manufacturer's instructions when applicable.
- .4 Store packaged or bundled Products in original and undamaged condition with manufacturer's seals and labels intact.
- .5 Store products subject to damage from weather in weatherproof enclosures.
- .6 Unless otherwise indicated in specifications, install or erect Products in accordance with manufacturer's instructions. Do not rely on labels or enclosures provided with Products. Obtain written instructions directly from manufacturers
- .7 Notify Engineer in writing, of conflicts between specifications and manufacturer's instructions, so that Engineer may establish course of action.
- .8 Improper installation or erection of Products, due to failure in complying with these requirements, authorizes Engineer to require removal and reinstallation at no increase in Contract Amount.
- .9 Execute Work by workers experienced and skilled in respective duties for which they are employed. Immediately notify Engineer if required Work is such as to make it impractical to produce required results.
- .10 Do not employ any unfit person or anyone unskilled in their required duties. Engineer reserves the right to require the dismissal from site of workers deemed incompetent, careless, insubordinate or otherwise objectionable.
- .11 In finished areas, conceal pipes, ducts and wiring except where indicated otherwise.
- .12 Before installation, inform Engineer if there is a contradictory situation. Install as directed by Engineer.

1.9 PROTECTION OF EXISTING FACILITIES

- .1 Size, depth and location of existing utilities and structures as indicated are for guidance only. Completeness and accuracy are not guaranteed.
- .2 Prior to commencing excavation work, notify applicable owner or authorities having jurisdiction, establish location and state of use of buried utilities and structures. Owners or authorities having jurisdiction to clearly mark such locations to prevent disturbance during work.
- .3 Confirm locations of buried utilities by careful test excavations.

- .4 Maintain and protect from damage, water, sewer, gas, electric, telephone, communications, cable, and other utilities and structures encountered.
- .5 Where utility lines or structures exist in area of excavation, obtain direction of Engineer before removing or re-routing.
- .6 Record location of maintained, re-routed and abandoned underground lines.
- .7 Conduct, with Engineer, condition survey of existing buildings, trees and other plants, lawns, fencing, service poles, wires, rail tracks, pavement, survey bench marks and monuments which may be affected by work.
- .8 Protect existing buildings and surface features from damage while work is in progress. In event of damage, immediately make repair to approval of Engineer.
- .9 When required for excavation, cut roots or branches as approved by Engineer.

1.10 REGULATORY REQUIREMENTS

- .1 The Contractor shall fully comply with all regulations affecting the Work imposed by:
 - SaskPower
 - SaskEnergy
 - SaskTel
 - Access Communications
 - Bell MTS Allstream
 - Rogers Communications
 - Telus
 - Ministry Of Highways and Transportation
 - Ministry Of Central Services.
 - Provincial Capital Commission
 - Sask Polytechnic
 - UofR Facilities Management
 - Innovation Place
 - Ground Engineering
 - Walker Project Engineers
 - 20/20 Geomatics
 - Land Titles (ISC)

1.11 COMPLIANCE WITH REGULATIONS

- .1 Ascertain requirements and regulations of authorities listed above.
- .2 Comply with all such requirements and regulations as applicable to the Work.
- .3 Requirements set out in this Section are for guidance and information and are not necessarily complete.



1.12 PERMITS and LOCATES

- .1 Obtain all necessary construction permits for the Work.
- .2 Obtain all construction locates for the Work prior to starting Work.

1.13 WORK IN VICINITY OF OVERHEAD POWER LINES

- .1 Request power company to de-energize or guard any energized conductor where construction equipment may operate within 3 meters of conductor.
- .2 Obtain power company approval prior to operating any equipment within 3 meters of energized conductor.
- .3 Where practical, avoid storage of metallic pipe sections under high voltage overhead power lines.



Appendix A – Construction Drawings For Option 1 and Option 2

The table below shows the conversion of units in the construction drawings between Inch, Millimeter, and Meter.

Inch	MilliMeter	Meter
0.375	10	0.01
0.75	19	0.02
1	25	0.03
2	51	0.05
3	76	0.08
3.5	89	0.09
4	102	0.10
4.5	114	0.11
5	127	0.13
6	152	0.15
10	254	0.25
12	305	0.30
16	406	0.41
18	457	0.46
19	483	0.48
24	610	0.61
30	762	0.76
36	914	0.91
60	1524	1.52
72	1829	1.83
80	2032	2.03



150F – 2 Research Drive
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Appendix B – Construction Plan for Option 1 and Option 2

The table below shows the conversion of units in the construction drawings between Inch, Millimeter, and Meter.

Inch	MilliMeter	Meter
0.375	10	0.01
0.75	19	0.02
1	25	0.03
2	51	0.05
3	76	0.08
3.5	89	0.09
4	102	0.10
4.5	114	0.11
5	127	0.13
6	152	0.15
10	254	0.25
12	305	0.30
16	406	0.41
18	457	0.46
19	483	0.48
24	610	0.61
30	762	0.76
36	914	0.91
60	1524	1.52
72	1829	1.83
80	2032	2.03



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