A-NMS000105++

Town of Nipawin CERTIFICATION PAGE Section 00 01 05

Landfill Closure Project Page 1 of 1

Specification 2024-06-21

#### CONTRACT SPECIFICATIONS FOR

TOWN OF NIPAWIN.

LANDFILL CLOSURE PROJECT

**JULY 2024** 

#### Prepared by PINTER & Associates Ltd.

These Contract Documents are for the sole use of the Engineer, and of the Owner, Contractor, Subcontractors, and Suppliers having a contract for the execution of the Works covered in the Contract Documents in whole or in part. The Contract Documents contain proprietary and confidential information that shall not be reproduced in any manner or disclosed to or discussed with any other parties without the express written permission of the Engineer. Information in these documents is to be considered the intellectual property of the Engineer in accordance with Canadian copyright law.

<u>A-NMS000110++</u>

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# DIVISION 00 – BIDDING AND CONTRACT REQUIREMENTS

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## DIVISION 01 – GENERAL INSTRUCTIONS

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01 28 00	Management and Co-ordination	2
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31 27 00	Subgrade Preparation	2
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A-NMS000115++

Town of Nipawin	LIST OF DRAWINGS	Section 00 01 15
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**Engineering Drawings** 

## Drawing Number Drawing Title

Landfill Closure

DWG-1 Site Location

DWG-2 Site Layout

DWG-3 Landfill Cover Section Views

Laydown Area

DWG-1 Site Location

DWG-2 Site Layout

DWG-3 Site Elevation Map

A-NMS001116++

Town of Nipawin	INVITATION TO BID	Section 00 11 16
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Electronic submissions containing Bids clearly marked for the "Town of Nipawin, Landfill Closure Project" and addressed PINTER & Associates, Att. Bennet Awume, 710A 48th Street East, Saskatoon, SK, sent to bennet.awume@pinter.ca before 3:00 pm CST on the 15th day of July 2024. Bids submitted after the Bid closing time will not be accepted and will be returned to the Bidder unopened. The time, as indicated by the declining time clock on the Online Bidding System, shall be the official time for closing.

The work involves constructing the final cover for a landfill cell at the Nipawin Landfill and preparing a laydown area there.

Contract Documents will be available on the Sask Tenders website on or after June 24<sup>th</sup>, 2024, free of charge. Bidders are required to check for any updated information and addenda issued before the closing date and time at the Bids and Tenders website: https://sasktenders.ca/

Any changes to the Bid Documentation will be issued as written addenda, posted to the Sask Tenders website, and will form part of the Bid. No amendment of any kind to the tender is effective unless it is posted in a formal written addendum. Upon submitting this Bid, Bidders will be deemed to have received notice of all addenda that have been posted and deemed to have considered the information for inclusion in the tender submitted.

A non-mandatory site visit has been arranged at the Nipawin Landfill at 11:00 a.m. on July 4<sup>th</sup>, 2024. Technical inquiries by bidders are to be directed to Bennet Awume, P.Eng., bennet.awume@pinter.ca.

Bids must be accompanied by the specified Bid Bond and Consent of Surety Company payable to the Town of Nipawin. Failure to provide a Bid Bond and Consent of the Surety Company will be a factor taken into account when awarding the contract.

The lowest or any bid will not necessarily be accepted.

#### Owner's Name and Address:

#### **Engineer's Name and Address:**

Town of Nipawin. 210 2<sup>nd</sup> Avenue East, Nipawin, SK S0E 1E0 PINTER and Associates 710A 48th Street East Saskatoon, SK S7K 5B4

Attention: Jamie Fast

General Manager of Operations and

Telephone: (306) 244-1710

Attention:

**Engineering Services** 

Email: bennet.awume@pinter.ca

Bennet Awume, P.Eng.

Telephone: (306) 862-9866, Ext. 223 Email: <u>j.fast@nipawin.com</u>

Town of Nipawin Landfill Closure Project		INSTRUCTIONS TO BIDDERS	Section 00 21 13 Page 1 of 7 2024-06-24
Specification			2024-00-24
PART 1 – GENERAL			
1.1 DEFINITIONS	<del></del> .1	Definitions	
		<ul> <li>"Bid Closing Time" means the time of bids in Article 1.3.1.1 of this Set addendum.</li> <li>"Bid Documents" mean the bid dowith Article 1.3.1.1 of these Instruall of the documents and drawings thereof and any addenda that may "Bid Form" means Section 00 41 (supplements thereto.</li> <li>"Bidder" means any holder of Bid "Total Bid" means the amount ent Form on the line "TOTAL BID: (each bid will be only one of the criteria will be evaluated in accordance will identified in Section 1.11.</li> <li>"Bid Price" means the monetary stronger to perform the work.</li> </ul>	cuments obtained in accordance ctions to Bidders and comprising listed in the Table of Contents be issued thereto.  Of the Bid Documents and the Documents.  ered by the Bidder into the Bid excluding GST & PST). The Total for the evaluation of bids. Bids the the evaluation criteria
	.2	Additional Definitions	
		.1 The definitions set out in CCDC 4 part of this Section 00 21 13 - Inst	
1.2 LIMITATION OF LIABILITY	.1	The Bidder agrees that the Owner's sole Obligation, in return for the Bidder's preparation and submission of its bid, is to give consideration to bid in accordance with the Contract Documents. The Bidder hereby wa any claim for damages or costs of any nature against the Owner and the Engineer (including, without limitation, the cost of preparing and submit the Tender and any anticipated profits and contributions to overhead) arise out of the Owner's use of its discretion under the Contract Documents are the Engineer's advice to the Owner.	
1.3 INVITATION	1	Invitational Tender:	

- Ensure offers are signed under seal, executed, and dated, and are .1 received by email at bennet.awume@pinter.ca before 3:00 pm CST on the 15<sup>th</sup> day of July 2024.

  Offers submitted after above time will be returned to Bidder
- .2 unopened.
- Offers will be opened privately immediately after time for receipt of .3
- Amendments to submitted offer will be permitted if received in .4 writing through email prior to Bid closing and if endorsed by same party or parties who signed and sealed the original offer.

A-NMS002113++ Town of Nipawin Landfill Closure Project	INSTRUCTIONS TO BIDDERS	Section 00 21 13 Page 2 of 7
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1.4 INTENT	Intent of this Invitational Tender is to obtate complete the construction of a Landfill Contract, in accordance with Contract Documental Requirements.	ell Closure, for a Unit Price

- .2 Perform Work within time in Section 01 11 00 Summary of Work.
- .3 Initiate Work within timeline stated within Section 01 11 00 Summary of Work.

# 1.5 CONTRACT/BID DOCUMENTS

#### Availability:

.1

- .1 Electronic versions of Bid Documents will be provided to Invited firms at the commencement of the bid period.
- .2 Bid Documents are made available only for purpose of obtaining offers for this project. Their use does not confer license or grant for other purposes.
- 3 Bid documents irregularly obtained from sources other than those provided for in Article 1.5.1.1 ("unofficial bid documents") are used entirely at the risk of the Person who holds them. Neither Engineer nor Owner undertakes to provide information or addenda to Persons holding unofficial bid documents. Any use which a Person makes of unofficial bid documents or any reliance on or decisions to be made based on them, are the responsibility of such Persons. Engineer and Owner accept no responsibility for damages, if any, suffered by any Person as a result of decisions made or actions based on unofficial bid documents. Bids received from Persons holding unofficial bid documents may be declared informal at the sole and unfettered discretion of the Owner and if so declared will be rejected.

#### .2 Examination:

- .1 Upon receipt of Bid Documents verify that documents are complete. Notify Engineer should the document be incomplete.
- .2 Immediately notify PINTER upon finding discrepancies or omissions in Bid Documents.
- .3 The Owner reserves the right to either cancel the invitation to tender, not award any contract, negotiate a tender and awarded contract, or add or remove scope from the accepted tender and awarded contract

#### .4 Queries/Addenda:

- .1 Direct questions to PINTER, attention Bennet Awume in writing through e-mail at <a href="mailto:bennet.awume@pinter.ca">bennet.awume@pinter.ca</a> no later than
- .2 All question responses will be provided in writing through email.
- .3 Addenda will be in written form and may be issued the bidding period. Addenda will become part of Contract Documents. Include costs in Bid Price.
- .4 Clarifications requested by Bidders must be in writing not less than three days before date set for receipt of Bids.
- .5 If required an addendum may follow the reply to bidders.

Town of Nipawin Landfill Closure Project Specification	INSTRU	UCTIONS TO BIDDERS	Section 00 21 13 Page 3 of 7 2024-06-24
.5	Produ	act/System Options:	
	.1	Where Bid Documents stipulate a will be considered by the owner o project. Do not include contracto submission.	nly after formal award of the
1.6 SITE EXAMINATIONS	Site E	Site Examination:	
	.1	A non-mandatory site visit has bee at 11:00 a.m. on 4 <sup>th</sup> day of July 20 not represent multiple (more than	24. Attendants at the site visit ma
1.7 QUALIFICATIONS	Bidde	ers' Qualifications:	
	.1	Submit complete Document 00 45	3 13 - Bidders' Qualification form
	.2	with the Bid Form. Indicate the OHS Act Certificate of Supplementary Conditions.	of Registration number. Refer to
.2	Subco	ontractors:	
	.1	Owner reserves right to reject propreasonable cause.	posed subcontractor for
1.8 CONSTRUCTION .1	Requi	ired Construction Completion Date:	
SCHEDULE	.1	Construction will be completed no	o later than the 31st October 2024.
1.9 LIQUIDATED DAMAGES	Liqui	dated Damages:	
	.1	Failure to meet the above construct liquidated damages fees to accrue calendar day. Fees will accrue st construction completion date and Completion of the project.	at a rate of \$4,000/day each arting the day after required
1.10 BID SUBMISSION .1	Bid Ir	neligibility:	
	.1	Bids that are unsigned, improperly illegible, obscure, contain arithme or irregularities of any kind, may discretion.	tical errors, erasures, alterations,
	.2	Bids with Bid Forms and enclosur may be declared informal at Owne Bids that fail to include securit requirements will be declared info	er's discretion. ty deposit, bonding or insuranc

#### .2 Submissions:

- .1 Bidders are solely responsible for delivery of their Bids in manner and time prescribed.
- .2 Submit two copies of executed offer on Bid Forms provided, signed and with corporate seal together with required security in sealed opaque envelope, clearly identified with Bidder's name, project name and Owner's name on outside.

A-NMS002113++			
Town of Nipawin	INSTRUCTIONS TO BIDDERS	Section 00 21 13	
Landfill Closure Project		Page 4 of 7	
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.3 An abstract of submitted Bids will be made available to Bidders following Bid opening.

#### .3 Bid Modifications:

- .1 Written amendments to the submitted shall be permitted if received in hard copy or by email to bennet.awume@pinter.ca at the office where bids are being opened prior to Bid Closing Time, provided that bid amendments are endorsed by the same party or parties who signed and sealed the offer.
- .2 The onus is on Bidder to ensure timely receipt of bid modifications. Owner makes no assurances regarding availability of fax communication lines or equipment. To be considered, fax transmissions of bid modifications must be received in full prior to Bid Closing Time.
- .3 An amendment that expressly or by inference discloses Bidder's Total Bid or other material element of the bid, such that in the opinion of Owner the confidentiality of the bid is breached, shall be valid cause for Owner, at their sole discretion to reject the bid.
- .4 Amendments submitted via email shall not be permitted.

#### .4 Bid Withdrawal:

.1 Bidder shall be permitted to withdraw bid without prejudice, provided a request, in writing or by fax, signed by the same person or persons who signed the Bid Form is received at the office designated in the Bid Documents before Bid Closing Time. Error on the part of Bidder in preparing the bid confers no right to the withdrawal of the bid after it has been opened.

## 1.11 BID ENCLOSURES/ REQUIREMENTS

#### Security Deposit:

.1

- .1 Bids are to be accompanied by security deposit as follows: Bid Bond or certified cheque in an amount not less than 10 percent of Bid price.
- .2 Endorse Bid Bond or certified cheque in name of Owner as obligee, signed and sealed by principal (Contractor) and surety.
- .3 Use most current edition CCDC approved bond forms.
- .4 Security deposit will be returned after delivery to Owner of required Performance and Labour and Materials Payment Bond(s) by accepted Bidder.
- .5 If no contract is awarded, security deposits will be returned.
- .6 If accepted Bidder fails for any reason to execute Contract Agreement or to provide the surety bonds stipulated in Section 00 73 16 Insurance within the time agreed to in the Bid Form, and such extension of time as may be granted by Owner, the accepted by Bidders' surety shall pay to the Owner the amount of the difference in money between the Total Bid and the amount for which Owner may legally contract with another party to perform the work, if the latter amount be in excess of the former.

#### .2 Consent of Surety:

Town of Nipawin	
Landfill Closure Project	
Specification	

#### INSTRUCTIONS TO BIDDERS

Section 00 21 13 Page 5 of 7 2024-06-24

- .1 Submit with Bid Form and Bid Bond, Consent of Surety, stating that surety providing Bid Bond is willing to supply Performance and Labour and Materials Payment Bond specified.
- .2 Include cost of bonds in Bid Price.

#### .3 Performance Assurance:

- .1 Accepted Bidder must provide Performance and Labour and Materials Payment Bond as described in Section 00 61 13.
- .2 Include cost of bonds in Bid Price.

#### .4 Insurance:

.1 Provide signed "Undertaking of Insurance" on standard form provided by insurance company stating intention to provide insurance to Bidder in accordance with insurance requirements of Contract Documents.

#### .5 Bid Form Requirements:

.1 Bidder, in submitting an offer, accepts time period stated in Contract documents for performing Work. Completion date in Agreement is completion time added to commencement date.

#### .6 Fees for Changes in Work:

- .1 Include in Bid Form, percentage markup for overhead and profit applicable for changes in Work, whether additions to or deductions from Work on which Bid price is based.
- .2 Include in Bid Form, fees proposed for subcontract work for changes (both additions and deductions) in Work. Contractor may apply markup as noted, to subcontractor's gross (net plus markup) costs on additional work.

#### .7 Bid Signing:

- .1 Bid Form to be signed under seal by Bidder.
- .2 Sole Proprietorship: signature of sole proprietor in presence of witness who shall also sign. Insert words "Sole Proprietor" under signature. Affix seal if applicable.
- .3 Partnership: signature of all partners in presence of witness who shall also sign. Insert word 'Partner' under each signature. Affix seal to each signature.
- .4 Limited Company: signature of duly authorized signing officer(s) in normal signatures. Insert officer's capacity in which signing officer acts, under each signature. Affix corporate seal. If Bid is signed by officials other than President and Secretary of company, or President-Secretary-Treasurer of company, copy of by-law resolution of Board of Directors authorizing them to do so must also be submitted within Bid envelope.
- .5 Incorporated Company: signature of duly authorized signing officer(s) in normal signatures. Insert officer's capacity in which signing officer acts, under each signature. Affix corporate seal. If Bid is signed by officials other than President and Secretary of company, or President-Secretary-Treasurer of company, copy of bylaw resolution of Board of Directors authorizing them to do so must also be submitted within Bid envelope.

Town of Nipawin Landfill Closure Project Specification		INSTRU	JCTIONS TO BIDDERS		Section 00 21 13 Page 6 of 7 2024-06-24	
		.6	Joint Venture: each party of respective seals in manner above, similar to requirem	appropriate	to such party as described	
	.8	Suppl	ements to Bid Form to be sub	mitted with b	oid:	
		.1 .2	Document 00 61 00 - Bid 1 Document 00 43 36 - Subc subcontractors. Identify p each subcontractor.	ontract List.	List the names of all the work to be performed by	
		.3	and respond to critical dea	ation to demo	onstrate ability to plan work	
		.4	Document 00 45 13 - Bidd details and submit with the	-	ations. Complete in all	
	.9	Supplements to Bid Form for post-bid Submission:				
		.1	following Supplements to of receipt of the request:  .a Document 00 43 - personnel and equestion the project. These projects are projects to the project of the project of the project.	ntract award Bid Form wi 43 - Force Ad hipment hour se rates will f	t from Engineer, Bidders are required to complete the thin two (2) Business Days count Rates. List all ly rates likely to be used on form the basis for payment out in accordance with	
1.12 OFFER	.1	Durat	on of Offer:			
ACCEPTANCE/ REJECTION		.1	Bids to remain open to acc Bid closing date.	eptance, and	irrevocable for 30 days after	
	.2	Accep	tance of Offer:			
		.1 .2	Owner reserves right to ac After acceptance by Owne Bidder, written Bid accept	r, PINTER w		
		.3	Unsuccessful bidders will outcome.		romptly of the process	
		.4 After Bid has been accepted, uns respective Bidders with submitted requested enclosures.				
1.13 PROJECT FUNDING	<del></del> .1		roject is funded in part by the nment of Canada:	Governmen	t of Saskatchewan and the	
1.14 BID EVALUATION	1	Bids v distrib	vill be evaluated via a points soution:	system with t	he following points	

.1

Price – 70 point
.a Points for price will be allotted according to a mathematical formula in which the lowest bidder receives

END OF SECTION

Not Used.

3.1 NOT USED

A-NMS003000++ Town of Nipawin Landfill Closure Project Specification	INFORMATION AVAILABLE TO BIDDERS	Section 00 30 00 Page 1 of 1 2024-06-21
PART 1 – GENERAL		
<u>1.1 REPORT</u> .1	Not Used.	
PART 2 – PRODUCTS		
2.1 NOT USED .1	Not used.	
PART 3 – EXECUTION		
3.1 NOT USED .1	Not used.	

**END OF SECTION** 

<u>A-NMS004100++</u>		
Town of Nipawin	BID FORM	Section 00 41 00
Landfill Closure Project		Page 1 of 5
Specification		2024-06-21

TO: Town of Nipawin 210 2<sup>nd</sup> Avenue East Nipawin, SK S0E 1E0

The undersigned Bidder, having carefully examined the Contract Documents and locality of the proposed work, and having full knowledge of the work required and the materials to be furnished and used, hereby agrees to provide all necessary materials, supervision, labour 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 <sup>1</sup>\_\_\_\_\_\_ for the prices stated in the Schedule of Quantities and Prices.

<sup>&</sup>lt;sup>1</sup> Bidder to fill each Addendum No. received, e.g., 1,2,3, etc. as applicable.

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Town of Nipawin	BID FORM	Section 00 41 00
Landfill Closure Project		Page 2 of 5
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The undersigned also agrees:

- 1 That Owner is in no way obligated to accept this bid;
- 2 that Owner may, at Owner's discretion, award to other than the low Bidder;
- that, if the Bid Form is improperly completed or incomplete, Owner shall have the right to disqualify and/or reject this bid;
- 4 that this bid is made without knowledge of the bid prices to be submitted for this work by any other company, firm, or person;
- that this bid is made without any connection or arrangement with any other company, firm, or person submitting a bid for this work;
- that this bid is made without any undisclosed connection or arrangement with any other company, firm, or person submitting a bid for this work;
- that this bid is irrevocable for sixty (60) days after the closing date for receipt of bids and that the 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;
- to deposit with Owner a Performance Bond and Labour and Material Payment Bond on the forms provided in these documents and for the amount specified in the CCDC and the specified insurance endorsement certificates and execute the Contract Agreement in accordance with the time periods specified in the CCDC, such time periods being extended only on the written approval of Owner;
- to commence and proceed actively with the work promptly following receipt of the Notice to Proceed, and to complete all work under the Contract within a period of \*\_\_\_\_\_ calendar days from Notice of Award, subject to the provisions of the CCDC for extension of Contract Time;
- to compensate Owner in accordance with the Contract Documents if the work is not completed with the Contract Time;
- to do all extra work not reasonably interfere 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 CCDC;
- that estimates of quantities shown in the Bid Form serve only to provide a bases 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;
- that payment for the work done will be made on the basis of the quantities measured by Engineer and at the prices shown 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;
- that payment for the work done will be made at the bid price(s) which shall be compensation in full for the work done under the terms of the Contract, exclusive of GST payable by Owner; and

<sup>\*</sup> Contractor to complete

Landf	of Nipawin BID FORM Fill Closure Project fication				Secti Page 2024	3 o	
SCHE	DULE OF QUANTITIES AND PRICES						
Item		Unit	Quantity		Unit Price		Extension
1.0	Miscellaneous Items		_				
1.1	Mobilization	L.S.	1	\$		\$	
1.2	Bonding and Insurance	L.S.	1	\$		\$	
1.3	Supervision	L.S.	1	\$		\$	
1.4	Live Out Allowance	L.S.	1	\$		\$	
1.5	Contractor Site Office	L.S.	1	\$		\$	
1.6	Survey Allowance	L.S.	1	\$		\$	
1.7	Demobilization	L.S.	1	\$		\$	
					Subtotal	\$	
2.0	Landfill Site Work						
2.1	Site Grading/Preparation	$m^2$	60,000	\$		\$	
2.2	Concrete and Asphalt Crushing Allowance	$m^3$	40,000	\$		\$ \$	
2.3	Excavation/Hauling/Grading, Placement, and Compaction of Fill	$m^3$	23,500	\$		\$	
2.4	Excavation/Hauling/Grading, Placement, and Surface Preparation of Clean Fill under GCL	$m^3$	20,000	\$		\$	
2.5	Supply and Delivery of GCL Liner	$m^2$	50,000	\$		\$	
2.6	Installation of GCL Liner	L.S.	1	\$		\$	
2.7	Excavation/Hauling/Grading, and Placement of Sand Subsoil	$m^3$	16,200	\$		\$	
2.8		$m^3$	10,700	Ф		Φ	
	Hauling, Placement and Grading of Topsoil	$m^2$		\$ \$		\$ \$	-
2.9	Seeding and Fertilizing	Ш	50,000	Ф	Subtotal	э \$	-
3.0	Laydown Area Site Work				Subtotal	Ψ	-
3.1	Site Grading/Preparation	$m^2$	350,000	\$		\$	
3.2	Laydown Area Cut and Subgrade Scarification and Compaction	$m^3$	15,000	\$		\$	
3.3	Laydown Area Fill with Compaction of Fill in 150 mm Lifts	$m^3$	15,300	\$		\$	
	150 mm Ents				Subtotal	\$	-
3ID SI	UMMARY						
гот	AL BID (excluding GST)						\$
	<u> </u>						
100a	s and Services Tax						\$
							T <sub>a</sub>
	<ul> <li>Value of Materials</li> </ul>						\$
Γotal	- Value of Saskatchewan Provincial Sales Tax	at 6.00	) %				\$

A-NMS004100++		
Town of Nipawin	BID FORM	Section 00 41 00
Landfill Closure Project		Page 4 of 5
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#### SUPPLEMENTS TO BID FORM

The following Supplements to Bid Form are included with and form a part of the Bid. We understand that the information provided on these forms will be used by the Owner during Bid analysis.

00 43 36	- Subcontract List
00 43 83	- Construction Schedule
00 45 13	- Bidders Qualifications
00 61 00	- Bid Bond
00 61 13	- Labour and Material Payment Bond
00 61 13.13	- Performance Bond
00 62 16	- Certificate of Insurance

- Force Account Rates

00 43 43

<u>A-NMS004100++</u>	DID:	F0D11			g .: 00.41.00
Town of Nipawin Landfill Closure Project	BID	FORM			Section 00 41 00 Page 5 of 5
Specification					2024-06-21
This bid is executed under seal at		this	day of	, 20	
	Name of firm				
	Address				
	riddress				
For Individual or Partnership: SIGNED, SEALED ND DELIVE	RED by:				
Bidder (please p	print)	_			Signature
in the presence of:		_			Title
	Name				
	Address				
	City/Province/PC	2		Seal	
	Occupation				
For Individual or Partnership: The Corporate Seal of:					
Bidder (please p	print)				
was hereunto affixed in the preser	nce of:				
Authorized Signing Office	Title				
				Seal	
Authorized Signing Office	Title				

<u>A A-NMS004336++</u>		
Town of Nipawin	SUBCONTRACT LIST	Section 00 43 36
Landfill Closure Project		Page 1 of 1
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#### Supplement to Bid Form

It is our intention that the following work will, subject to Engineer's approval be subcontracted to the firms indicated below. All other work will be performed by our own forces, except as authorized in writing by Engineer.

Trade	Name and Address of Subcontractor

<u>A-NMS004343++</u>		
Town of Nipawin	FORCE ACCOUNT RATES	Section 00 43 43
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Charification		2024 06 21

# Supplement to Bid Forms SCHEDULE OF FORCE ACCOUNT RATES

The following personnel and equipment rates will form the basis of payment for force account work carried out in accordance with the General Conditions. The rates shown are all inclusive. Contractor overhead and profit and, where applicable, subcontractor overhead and profit, are included in the rates. (Add additional pages, if necessary).

# PERSONNEL List by Occupation Hourly Rate Overtime Rate

# EQUIPMENT (Complete with Operator)

Description	Hourly Rate	Model and Size

**END OF SECTION** 

<u>A-NMS004344++</u>		
Town of Nipawin	EQUIPMENT SUPPLIER LIST	Section 00 43 44
Landfill Closure Project		Page 1 of 1
Specification		2024-06-21

## Supplement to Bid Form

The following is a list of suppliers from whom we intend to purchase various items of material indicated, together with the product brand name or the name of the manufacturer of each. We will alter neither products nor suppliers from those listed below without the written authorization of the Engineer.

Item	Supplier

END OF SECTION
----------------

<u>A-NMS006100++</u>		
Town of Nipawin	BID BOND	Section 00 61 00

Landfill Closure Project Page 1 of 3
Specification 2024-06-21

Use CCDC standard form 220, an example of which follows.

Town of Nipawin	BID BOND	Section 00 61 00
Landfill Closure Project		Page 2 of 3
Specification		2024-06-21
No		
WNOW ALL MEN BY THESE DDI	ECENTE THAT	
KNOW ALL MEN BY THESE PRI	ESENIS THAT	
	as Principal	
hereinafter called the Principal, and		
a corporation created and existing un		
•••••		
and duly authorized to transact the b	usiness of Suretyship in	
as Surety, hereinafter called the Sure	ety, are held and firmly bond unto	
	as Obligee	
	Ç	
hereinafter called the Obligee, in the	amount	
VI		
	Dollars (\$ )	
	, ,	
	ment of which sum, well and truly to be made indistrators, successors and assigns, jointly	
themserves, then heirs, executors, ac	ministrators, successors and assigns, jointly	y and severally, firmly by these presents.
	itted a written tender to the Obligee, dated	lov of
	d	•
		·······

A NMS006100 L

NOW, THEREFORE, THE CONDITIONS OF THIS OBLICATION is such that if the aforesaid Principal shall have the tender accepted within sixty (60) days from the closing date of tender and the said Principal will, within the time required, enter into a formal contract and give the specified security to secure the performance of the terms and conditions of the Contract, then this obligation shall be null and void. Otherwise the Principal and the Surety will pay unto the Obligee the difference in money between the amount of the bid of the said Principal and the amount for which the Obligee legally contracts with another party to perform the work if the latter amount be in excess of the former.

The Principal and the Surety shall not be liable for a greater sum than the specified penalty of this bond,

Any suit under this bond must be instituted before the expiration of six months from the date of this Bond.

<u>A-NMS006100++</u>		
Town of Nipawin	BID BOND	Section 00 61 00
Landfill Closure Project		Page 3 of 3
Specification		2024-06-21
	ncipal and the Surety and Signed and Sealed this	
20	······,	
SIGNED AND SEALED		
In the presence of	(	
	(	
	(	(Seal)
	•	Principal
	(	
	(	(Seal)
	(	Surety

A-NMS00611316

Town of Nipawin	LABOUR AND MATERIAL	Section 00 61 13
Decommissioning Project	PAYMENT BOND	Page 1 of 4
Specification		2024-06-21

Use CCDC standard form 222, an example of which follows.

#### A-NMS00611316

Town of Nipawin LABOUR AND MATERIAL Section 00 61 13 **Decommissioning Project** PAYMENT BOND Page 2 of 4 2024-06-21 **Specification** No..... \$..... Note: This Bond is issued simultaneously with another Bond in favour of the Obligee conditioned for the full and faithful performance of the Contract. KNOW ALL MEN BY THESE PRESENTS THAT .....as Principal hereinafter called the Principal, and ..... a corporation created and existing under the laws of and duly authorized to transact the business of Suretyship in..... as Surety, hereinafter called the Surety, subject to the conditions hereinafter contained, held and firmly bound unto..... ......as Trustee hereinafter called the Obligee, for the use and benefit of the Claimants, their and each of their heirs, executors, administrators, successors and assigns in the amount of..... ) lawful money of Canada, for the payment of which sum, well and truly to be made the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents. WHEREAS, the Principal has submitted a written tender to the Obligee, dated the......day of ..... ..... .....

which Contract Documents are by reference made a part hereof, and are hereinafter referred to as the Contract.

NOW, THEREFORE, THE CONDITIONS OF THIS OBLICATION is such that if the Principal shall make payments to all Claimants for all labour and material used or reasonably required for use in the performance of the Contract, then this obligation shall be null and void; otherwise it shall remain in full force and affect, subject however to the following conditions:

Town of Nipawin Decommissioning Project Specification LABOUR AND MATERIAL PAYMENT BOND

Section 00 61 13 Page 3 of 4 2024-06-21

- 1. A Claimant for the purpose of this Bond is defined as one having a direct contract with the Principal for labour, material, or both, used or reasonable required for use in the performance of the Contract, labour and material being construed that part water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment directly applicable to the Contract provided that a person firm or corporation who rents equipment to the Principal to be used in the performance of the Contract under a contract which provides that all or any part of the rent is to be applied towards the purchase price thereof, shall only be a Claimant to the extent of the prevailing industrial rental value of such equipment for the period during which the equipment was used in the performance of the Contract. The prevailing industrial rental value of equipment shall be determined, insofar as it is practical to do so, in accordance with and in the manner provided for in the latest revised edition of the publication of the Canadian Construction Associated titled "Rental Rates on Construction Equipment" published prior to the period during which the equipment was used in the performance of the Contract.
- 2. The Principal and the Surety hereby jointly and severally agree with the Obligee as Trustee that every Claimant who has not been paid as provided for under the terms of his contract with the Principal, before the expiration of a period of ninety (90) days after the date on which the last of such Claimant's work or labour was done or performed or materials were furnished by such Claimant, may as beneficiary of the trust herein provided for, sue on this Bond, prosecute to final judgment for such sum or sums as may be justly due to such claimant under the terms of a contract with the Principal and have execution thereon. Provided that the Obligee is not obliged to do or take any act, action or proceeding against the Surety on behalf of the Claimants, or any of them, to enforce the provisions of this Bond. If any act, action or proceeding is taken either in the name of the Obligee or by joining the Obligee as a party to such proceeding, then such act, action or proceeding shall be taken on the understanding and bases that the Claimants or any of them, who take such act, action or proceeding, shall indemnify and save harmless the Obligee against all costs, charges and expenses or liabilities incurred thereon and any loss or damage resulting to the Obligee by reason thereof. Provided still further that, subject to the foregoing terms and conditions, and Claimants, or any of them, may use the name of the Obligee to sue of enforce the provisions of this Bond.
- 3. No suit or action shall be commenced hereunder by any Claimant:
  - (a) unless such Claimant shall have given written notice within the time limits hereinafter set forth to each of the Principal, the Surety and the Obligee, stating with substantial accuracy the amount claimed. Such notice shall be served by mailing the same by registered mail to the Principal, the Surety and the Obligee, at any place where any office is regularly maintained for the transaction of business by such persons or served in any manner in which legal process may be served in the Province or other part of Canada in which the subject matter of the Contract is located. Such notice shall be given:
    - (1) in respect of any claim for the amount or any portion thereof, required to be held back from the Claimant by the Principal under either the terms of the Claimant's contract with the Principal, or under the Builders' (Mechanics') Liens Legislation applicable to the Claimant's contract with the Principal, whichever is the greater, within one hundred and twenty (120) days after such Claimant should have been paid in full under the Claimant's contract with the Principal;
    - (2) in respect of any claim other than the holdback, or portion thereof, referred to above, within one hundred and twenty (120) days after the date upon which such Claimant did, or performed, the last of the work or labour or furnished the last of the materials for which such claim is made under the Claimant's contract with the Principal;
  - (b) after the expiration of one (1) year following the date on which the Principal ceased work on the Contract, including work performed under the guarantees provided in the Contract;
  - (c) other than in a Court of competent jurisdiction in the Province or District of Canada in which the subject matter of the Contract, or any part thereof, is situated and not elsewhere, and the parties hereto agree to submit the jurisdiction of the Court.
- 4. The Surety agrees not to take advantage of Article 1959 of the Civil Code of the Province of Quebec in the event that, by an act or an omission of the Claimant, the Surety can no longer be subrogated in the rights, hypothecs and privileges of said Claimant.
- 5. Any material change in the contract between the Principal and Obligee shall not prejudice the rights or interest of any Claimant under this Bond, who is not instrumental in bringing about or has not caused such change.
- 6. The amount of this Bond shall be reduced by, and to the extent of any payment or payments made in good faith, and in accordance with the provisions hereof, inclusive of the payment by the Surety of Builders' (Mechanics') Liens

#### A-NMS00611316

Town of Nipawin	LABOUR AND MATERIAL	Section 00 61 13
Decommissioning Project	PAYMENT BOND	Page 4 of 4
Specification		2024-06-21

which may be filed of record against the subject matter of the Contract, whether or not claim for such lien be presented under and against this Bond.

7. The Surety shall not be liable for a greater sum than the specified penalty of this bond.

	nd the Surety have Signed and Sealed this Bond this day of,	
20	day of,	
SIGNED and SEALED		
in the presence of	( ( ( ((Sea Principal	1)
	( ( ( ((Sea	1)
	Surety	_

A-NMS00611313

Town of Nipawin	PERFORMANCE BOND	Sect 00 61 13.13
Landfill Closure Project		Page 1 of 3
Specification		2024-06-21

Use CCDC standard form 221, an example of which follows.

1 NR 1900 (11010		
A-NMS00611313 Town of Nipawin Landfill Closure Project Specification	PERFORMANCE BOND	Sect 00 61 13.13 Page 2 of 3 2024-06-21
KNOW ALL MEN BY THESE PRES	SENTS THAT	
		as Principal
hereinafter called the Principal, and		
a corporation created and existing und	ler the laws of	
and duly authorized to transact the bus	siness of Suretyship in	
as Surety, hereinafter called the Surety	y, are held and firmly bond unto	
		as Obligee
hereinafter called the Obligee, in the a	nmount	
		Dollars (\$ )
	nent of which sum, well and truly to be made, the P ninistrators, successors and assigns, jointly and sev	

WHEREAS, the Principal has submitted a written tender to the Obligee, dated the.....day of ....., 20..... for ..... ..... ..... .....

in accordance with the Contract Documents submitted therefore which are by reference made part hereof and are hereinafter referred to as the Contract.

NOW, THEREFORE, THE CONDITIONS OF THIS OBLICATION is such that if the shall promptly and faithfully perform the Contract then this obligation shall be null and void; otherwise it shall remain in full force and affect.

Whenever the Principal shall be, and declared by the Oblgiee to be, in default under the Contract, the Obligee having performed the Obligee's obligations thereunder, the Surety shall promptly remedy the default or shall promptly:

- (1) complete the Contract in accordance with its terms and conditions, or
- (2) obtain a bid of bids for submission to Obligee for completing the Contract in accordance with its terms and conditions, and upon determination by the Obligee and the Surety of the lowest responsible bidder, arrange for a contract between such bidder and the Obligee and make available as work progresses (even though there should be a default, or a succession of defaults, under the contract or contracts of completion, arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the Contract price; but not

A-NMS00611313

Town of Nipawin	PERFORMANCE BOND	Sect 00 61 13.13
Landfill Closure Project		Page 3 of 3
Specification		2024-06-21

exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount payable by the Obligee to the Principal under the Contract, less the amount properly paid by the Obligee to the Principal.

Any suit under this Bond must be instituted before the expiration of two (2) years from the date which the final payment under the Contract falls due.

The Surety shall not be liable for a greater sum than the specified penalty of the Bond.

No right of action shall accrue on this Bond, to or for the use of, any person or corporation other than the Obligee named herein, or the heirs, executors, administrators or successors of the Obligee.

	and the Surety have Signed and Sealed this Bond this day of
SIGNED and SEALED in the presence of	( ( (
	((Seal) Principal
	(
	((Seal)

A-NMS006216++

Town of Nipawin	CERTIFICATE OF INSURANCE	Section 00 62 16
Landfill Closure Project		Page 1 of 3
Specification		2024-06-21

Use standard two-sided form, which follows.

A-NMS006216++ Town of Nipawin Landfill Closure Project Specification

CERTIFICATE OF INSURANCE

Section 00 62 16 Page 2 of 3 2024-06-21

Issued to:

Project: Description:

Location:

This is to certify that insurances as described herein, have been arranged through this office for the insured named below on whose behalf this Certificate is executed and we hereby certify that such insurances are in full force and effect as of this date, but only with respect to the type(s) of insurance for which a policy number, policy period, and limits of liability or amount is shown.

		SCHEDULE OF INSURANCE	
TYPE OF INSURANCE	COMPANY AND POLICY NUMBER	EFFECTIVE & EXPIRY DATES OF POLICY	LIMIT OF LIABILITY/AMOUNT
COMPREHENSIVE GENERAL LIABILITY		EFFECTIVE EXPIRY	BODILY INJURY  \$ EACH PERSON  \$ EACH ACCIDENT  \$ AGGREGATE PRODUCTS
		WRAP UP □	PROPERTY DAMAGE  \$EACH ACCIDENT  \$AGGREGATE PRODUCTS  BODILY INJURY & PROPERTY DAMAGE  \$INCLUSIVE  \$AGGREGATE PRODUCTS
EMPLOYERS LIABILITY		EFFECTIVE	\$EACH PERSON \$EACH ACCIDENT
AUTOMOBILE LIABILTY (OWNED/LEASED VEHICLES)		EFFECTIVE EXPIRY	BODILY INJURY  \$ EACH PERSON  \$ EACH ACCIDENT
			PROPERTY DAMAGE  \$EACH ACCIDENT  BODILY INJURY & PROPERTY DAMAGE  \$ INCLUSIVE
AUTOMOBILE LIABILTY NON- OWNED VEHICLES		EFFECTIVE EXPIRY WRAP UP $\square$	BODILY INJURY  \$ EACH PERSON  \$ EACH ACCIDENT
			PROPERTY DAMAGE \$ EACH ACCIDENT
			BODILY INJURY & PROPERTY DAMAGE \$ INCLUSIVE
UMBRELLA LIABILITY		EFFECTIVE	\$LIMITS EXCESS OF \$
BUILDERS RISK/ INSTALLATION FLOATER CONTRACTORS		EFFECTIVE EXPIRY WRAP UP EFFECTIVE	\$SITE \$OTHER LOCATION \$TRANSIT
EQUIPMENT WORKER'S		EXPIRY	AS REQUIRED BY THE ORDINANCE(S) OF
OTHER OTHER		EXPIRY	THE

A-NMS006216++ Town of Nipawin Landfill Closure Project Specification

# CERTIFICATE OF INSURANCE

Section 00 62 16 Page 3 of 3 2024-06-21

PARTICI II ARS	OF INSURANCE			
GENERAL LIABILITY	BUILDERS RISK/INSTALLATION FLOATER			
□ Premises Property and Operations	□ All Risk Form			
□ Products and Completed Operations	□ Fire, Extended Coverages, Riot, Vandalism or Malicious Acts			
□ Blanket Contractual (all written agreements)	□ Difference in Conditions			
□ Tenants Fire Legal Liability	□ Flood Included			
□ Owners and Contractors Protective	□ Earthquake Included			
□ Occurrence Bodily Injury and Property Damage	□ Excluded Faulty Workmanship, Faulty Construction or Faulty Design			
□ Broad Form Property Damage	but not loss resulting therefrom			
□ Contingent Employers Liability	□ Covers Transit by Land			
□ Personal Injury	□ Covers Boiler Explosion during Installation, Temporary Operation and			
□ Employees as Additional Insured	Testing			
□ Severability of Interest or Cross Liability	□ Covers Owner as Additional Named Insured			
□ Exclusions pertaining to Blasting, Collapse, Underpinning, deleted as	☐ Grants Permission for Occupancy prior to completion			
follows:	□ Waiver of Subrogation Against Named Insureds			
□ Owner as Additional Named Insured	□ 30 Days Notice of Cancellation or Material Change			
□ Provides Coverage for Claims arising from Use of Machinery and				
Equipment attached to licensed construction machinery on Project Site				
□ Waiver of Subrogation against Named Insured				
□ 30 Days Notice of Cancellation or Material Change				
	CONTRACTORS EQUIPMENT			
	□ Subrogation Waived Against Owner			
	☐ Subrogation Waived Against Owner, Construction or Project Manager,			
	Architects and Engineers			
	□ 30 Days Notice of Cancellation or Material Change			
CONTINGENT EMPLOYERS LIABILTY				
□ 30 Days Notice of Cancellation or Material Change				
□ 50 Days Notice of Cancellation of Waterial Change				
AUTOMOBILE	NON-OWNED AUTOMOBILE			
□ 15 Days Notice of Cancellation or Material Change	□ 15 Days Notice of Cancellation or Material Change			
□	□ □			
MARINE/AIRCRAFT	OTHERS			
□ 30 Days Notice of Cancellation				
MARINE/AIRCRAFT/CARGO				
□ 30 Days Notice of Cancellation or Material Change				
☑ INDICATES THAT THE COVERAGE/ENDOREMENT INDICATED I				
REMARKS (STATE DEDUCTIBLE IF ANY)	O I (CLODED			
REWINDS (STATE BED COTIBED IT THAT)				
TERMS AND CONDITIONS				
This Certificate is issued for convenience only. All of the terms and condition				
are not modified or amended by this Certificate. In the event of cancellation or material change of the Policies referred to herein, the Insurer and/or the				
undersigned will provide written notice as indicated above.				
<u> </u>				

Authorized to sign on behalf of Insurers

A-NMS007316++			
Town of Nipawin		GENERAL INSURANCE	Section 00 73 16
Landfill Closure Project			Page 1 of 3
Specification			2024-06-21
PART 1 – GENERAL			
1.1 DEFINITIONS	1	Not used.	
1.2 LIMITATION OF LIABILITY	.1	Without limiting any of Contractor's obligations or liabilities under the Contract Documents, Contractor shall, and shall cause its Subcontractors	

# 1.3 COMMERCIAL GENERAL .1 LIABILITY INSURANCE

Commercial General Liability Insurance, in a form acceptable to Owner, with limits of not less than \$5,000,000.00 inclusive per occurrence for bodily injury, death and damage to property, including loss of use thereof

obtain and continuously carry, while Work is being performed and, unless otherwise specified in this Section, while any remedial or warranty work is being undertaken, at Contractor's own expense and cost, the following insurance coverage with minimum limits not less than those stated.

Commercial General Liability Policy shall include the following:

- .1 Additional Insured: Owner and Engineer are added as additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract.
- .2 Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
- .3 Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
- .4 Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
- .5 Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
- .6 Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
- .7 Employees must be included as Additional Insured.
- .8 Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)
- .9 Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
- .10 Notice of Cancellation: The Insurer will provide the Owner thirty (30) days written notice of policy cancellation.
- .11 Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.
- .12 Non-Owned Automobile Liability Coverage for suits against the Contractor resulting from the use of hired or non-owned vehicles.

Town of Nipawin Landfill Closure Project Specification	GENE	RAL INSURANCE	Section 00 73 16 Page 2 of 3 2024-06-21
	.13	All Risks Tenants Legal Liability - to protect the Contractor for liabilities arising out of its occupancy of leased premises.  Sudden and Accidental Pollution Liability (minimum 120 hours To protect the Contractor for liabilities arising from damages caused by accidental pollution incidents.	
1.4 AUTOMOBILE INSURANCE (OWNED AND NON-OWNED)	natur death	Automobile Liability Insurance in an amount usual for a contract of thi nature, but for not less than \$2,000,000 per accident or occurrence., co death and damage to property, effective for all licensed vehicles owned leased, rented or used by Contractor.  The policy shall include the following:	
	The		
	.1 .2 .3 .4	Occurrence Accident Benefits - all jurisdict Uninsured Motorist Protection Notice of Cancellation: The Ins	
1.5 CONTRACTORS' EQUIPMENT INSURANCE	cons perfo	"All-Risk" Contractors' Equipment Insurance to the full insurable value construction machinery and equipment used by Contractor in the performance of Work, including boiler insurance for temporary boilers pressure vessels as applicable.	
1.6 BUILDERS' RISK INSURANCE	Cont insur sum prov exce trans	"All-Risks" Course of Construction Insurance in the joint names of Contractor, Owner, and Engineer, with the subcontractors as unnamed insureds, insuring not less than one hundred and ten percent (110%) of the sum of the amount of the Contract Price and the full value of materials provided by the Owner for incorporation into Work, with a deductible not exceeding \$5000.00. Such coverage to contain sublimits for materials in transit and materials stored at unnamed locations. Builders Risk Insurance shall be obtained and carried until Total Performance of the Work.	
1.7 UNMANNED AERIAL VEHICLE LIABILITY INSURANCE	owne Worl accid	Unmanned aerial vehicle liability insurance with respect to owned or no owned aircraft (if used directly or indirectly in the performance of the Work), shall have limits of not less than \$5,000,000 per occurrence or accident for bodily injury, death and damage to property or such amoun required by applicable laws or regulations.	
		policies of insurance shall be in a for v subrogation claims by the insurer	rm acceptable to Owner and shall nagainst Owner or Engineer.
	cons Engi	policies of insurance that Contractor idered as primary insurances in relaneer without any right of contribution by Owner or Engineer.	ation to insurances held by Owner or

<u>A-NMS007316++</u>		
Town of Nipawin	GENERAL INSURANCE	Section 00 73 16
Landfill Closure Project		Page 3 of 3
Specification		2024-06-21

- .4 All policies of insurance shall provide that at least 30 days prior written notice be given to Owner in the event of cancellation or amendment restricting coverage.
- .5 Prior to commencing Work, Contractor shall provide Owner with Certificates of Insurance in a form acceptable to Owner, and with a letter from the insurer stating that the insurance provided complies with the requirements of the Contract.
- .6 Deductibles, if any, which are applicable to the insurance specified herein, shall be borne by Contractor.
- .7 The specified limits of insurance and coverages in no way define or limit the obligation of Contractor to indemnify Owner in the event of loss.
- .8 Owner makes no representation or warranty with respect to the extent or adequacy of the insurance protection afforded by the insurance policies that are specified in this section. Contractor shall be fully responsible to determine additional insurance coverages that may be necessary and advisable for protection of Contractor or to fulfil Contractor's obligations under this Contract

A-NMS007316++			
Town of Nipawin		GENERAL INSURANCE	Section 00 73 16
Landfill Closure Project			Page 1 of 3
Specification			2024-06-21
PART 1 – GENERAL			
1.1 DEFINITIONS	1	Not used.	
1.2 LIMITATION OF LIABILITY	.1	Without limiting any of Contractor's o Contract Documents, Contractor shall,	_

# 1.3 COMMERCIAL GENERAL .1 LIABILITY INSURANCE

Commercial General Liability Insurance, in a form acceptable to Owner, with limits of not less than \$5,000,000.00 inclusive per occurrence for bodily injury, death and damage to property, including loss of use thereof

obtain and continuously carry, while Work is being performed and, unless otherwise specified in this Section, while any remedial or warranty work is being undertaken, at Contractor's own expense and cost, the following insurance coverage with minimum limits not less than those stated.

Commercial General Liability Policy shall include the following:

- .1 Additional Insured: Owner and Engineer are added as additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract.
- .2 Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
- .3 Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
- .4 Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
- .5 Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
- .6 Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
- .7 Employees must be included as Additional Insured.
- .8 Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)
- .9 Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
- .10 Notice of Cancellation: The Insurer will provide the Owner thirty (30) days written notice of policy cancellation.
- .11 Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.
- .12 Non-Owned Automobile Liability Coverage for suits against the Contractor resulting from the use of hired or non-owned vehicles.

Town of Nipawin Landfill Closure Project Specification	GEN	ERAL INSURANCE	Section 00 73 16 Page 2 of 3 2024-06-21
	.13 .14	liabilities arising out of its occup	pancy of leased premises. n Liability (minimum 120 hours): bilities arising from damages
1.4 AUTOMOBILE INSURANCE (OWNED AND NON-OWNED)	nat dea	Automobile Liability Insurance in an amount usual for a contract of t nature, but for not less than \$2,000,000 per accident or occurrence., c death and damage to property, effective for all licensed vehicles own leased, rented or used by Contractor.	
	Th	e policy shall include the following:	
	.1 .2 .3 .4	Occurrence Accident Benefits - all jurisdicti Uninsured Motorist Protection Notice of Cancellation: The Insu	00 Minimum Limit per Accident or onal statutes urer will endeavour to provide the 0) days written notice of cancellation
1.5 CONTRACTORS' EQUIPMENT INSURANCE	coi pei	Il-Risk" Contractors' Equipment Insur- nstruction machinery and equipment us formance of Work, including boiler in essure vessels as applicable.	sed by Contractor in the
1.6 BUILDERS' RISK INSURANCE	Co ins sur pro exo tra	Il-Risks" Course of Construction Insurant Insurant Corporation of the Amount of the Contract Price a cycled by the Owner for incorporation ceeding \$5000.00. Such coverage to consit and materials stored at unnamed leall be obtained and carried until Total I	e subcontractors as unnamed red and ten percent (110%) of the and the full value of materials into Work, with a deductible not ontain sublimits for materials in ocations. Builders Risk Insurance
1.7 UNMANNED AERIAL VEHICLE LIABILITY INSURANCE	ow Wo acc	manned aerial vehicle liability insuran ned aircraft (if used directly or indirec ork), shall have limits of not less than s sident for bodily injury, death and dam juired by applicable laws or regulation	etly in the performance of the \$5,000,000 per occurrence or lage to property or such amounts as
		policies of insurance shall be in a formous subrogation claims by the insurer a	
	coi En	policies of insurance that Contractor insidered as primary insurances in relating gineer without any right of contribution d by Owner or Engineer.	ion to insurances held by Owner or

<u>A-NMS007316++</u>		
Town of Nipawin	GENERAL INSURANCE	Section 00 73 16
Landfill Closure Project		Page 3 of 3
Specification		2024-06-21

- .4 All policies of insurance shall provide that at least 30 days prior written notice be given to Owner in the event of cancellation or amendment restricting coverage.
- .5 Prior to commencing Work, Contractor shall provide Owner with Certificates of Insurance in a form acceptable to Owner, and with a letter from the insurer stating that the insurance provided complies with the requirements of the Contract.
- .6 Deductibles, if any, which are applicable to the insurance specified herein, shall be borne by Contractor.
- .7 The specified limits of insurance and coverages in no way define or limit the obligation of Contractor to indemnify Owner in the event of loss.
- .8 Owner makes no representation or warranty with respect to the extent or adequacy of the insurance protection afforded by the insurance policies that are specified in this section. Contractor shall be fully responsible to determine additional insurance coverages that may be necessary and advisable for protection of Contractor or to fulfil Contractor's obligations under this Contract

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ADDENDUM NO.
to the
CONTRACT DOCUMENTS
for
TOWN OF NIPAWIN
LANDFILL CLOSURE PROJECT

## To All Bidders:

Any changes, additions and/or deletions made to the Contract Document for the Town of Nipawin Landfill Closure Project will be placed in this section.

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PART 1 – GENERAL	_		
1.1 SUMMARY OF WORK			
1.1 SUMMART OF WORK	1	Requirements Included	
		.1 Title and description of work: To Project.	wn of Nipawin Landfill Closure
		.2 Work included, but not limited to	
		.a Crushing of concrete and .b Provide GCL cover for la	I asphalt to use at fill and fill site in accordance with
			l regulatory requirements.
		.c Construction of final land .d Preparation of laydown a	
		.3 Contract method: Unit Price Cont	ract
	.2	Drawings and Specifications Furnished	
		.1 Owner will provide an electronic 17 drawings and specifications to	
		.2 Additional copies of drawings and	d specifications are available upor
		request at an additional cost of \$3  .3 Maintain at Site one complete set	
		Make available to Engineer at any	time.
1.2 PROJECT	.1	Coordinate progress of the Work, progress	schedules submittals use of site
COORDINATION	-	temporary utilities, construction facilities a	
	.2	Contractor to coordinate and pay for the re complete the Work.	location of utilities as required to
	.3	Contractor to coordinate and pay for tempor complete the Work.	orary utilities as required to
1.3 HOURS OF WORK	.1	Perform Work in conformity with all muni	cipal bylaws with respect to noise
		control, hours of work, night work and hol	•
	.2	Obtain written permission of Engineer beforight work.	ore undertaking holiday work or
1.4 RELICS AND			
ANTIQUITIES	.1	Relics and antiquities and items of historic such as cornerstones and contents, commer	
-		tablets, and similar objects found on site or	in buildings to be demolished,
		remain property of Owner. Protect such ar Engineer.	ticles and request directives from
	.2	Notify Engineer immediately if evidence o	
		encountered and await Engineer's written i work in area.	nstructions before proceeding wit
1.5 CUTTING	.1	Approvals	
AND PATCHING	_	.1 Submit written request in advance	e of cutting or alteration which
		affects:	-

affects:

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					1 00
			.a	Structural integrity of an	
			.b	elements.	osed or moisture-resistant
			.c		, or safety of any operational
			.0	element.	, or surety of any operational
			.d	Visual qualities of sight-	-exposed elements.
			.e	Work of Owner or separ	
		.2	Inspec	etion	
			.a		ons, including elements subject to
					ring cutting and patching.
			.b		ct conditions affecting performance
				of work.	
			.c	existing conditions.	patching means acceptance of
		.3	Execu	<u>c</u>	
		.5	.a		and patching including excavation
			.α	and fill, to complete the	
			.b	-	ective and non-conforming work.
			.c	Perform Work to avoid	
			.d		to receive patching and finishing.
			.e	Perform cutting and pate	ching for weather-exposed and
					ents and sight-exposed surfaces
				equivalent to original or	
			.f		g power saw or core drill.
				Pneumatic or impact too	
			.g		products in accordance with
			.h	Contract Documents.	s sleeves duets conduit and other
			.11	penetrations through sur	s, sleeves, ducts, conduit, and other
			.i	Refinish surfaces to mat	
			••		inish to nearest intersection; for ar
				assembly, refinish entire	
1.6 FIELD	.1	Surve	y Require	ements	
ENGINEERING		.1	Engin	eer will establish three (3) t	permanent bench marks on site,
		• 1			narks by survey control points.
				actor is responsible for prot	
		.2			pletion of all construction layout
					protecting construction survey
			stakes		•
		.3			t control points prior to starting sit
			work.	Preserve permanent referer	nce points during construction.

- te
- Record locations, with horizontal and vertical data in Project .4 Record Documents.
- .5
- Establish lines and levels, locate and lay out, by instrumentation. Engineer will complete periodic surveys at the site for the .6 verification of quantities for payment.

#### .2 Records

.1 Maintain a complete, accurate log of control and survey work as it progresses.

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#### .3 Subsurface Conditions:

- .1 Promptly notify Engineer in writing if subsurface conditions at Place of the Work differ materially from those indicated in Contract Documents, or reasonable assumption of probable conditions based thereon.
- .2 After prompt investigation, should Engineer determine that conditions do differ materially, instructions will be issued for changes in the Work as provided in the contract procedures for Changes in the Work.

## 1.7 PROJECT MEETINGS

Project progress will be called monthly throughout progress of work. The Contractor's Project Manager will administer.

#### 1.8 SUBMITTALS

#### Administrative

- .1 Submit to Engineer for review the submittals listed. Submit with reasonable promptness and in an orderly sequence so as to not cause delay in Work.
- .2 Work affected by submittal shall not proceed until review is complete.
- .3 Review submittals prior to submission to Engineer. This review represents that necessary requirements have been determined and verified, or will be, and that each submittal has been checked and coordinated with requirements of the Work and Contract Documents. Submittals not stamped, signed, dated and identified as to the specific project will be returned without being examined and will be considered rejected.
- .4 Verify that field measurements and affected adjacent Work are coordinated.
- .5 Adjustments made on submittals by Engineer are not intended to change the scope of work. If adjustments affect the value of Work, state such in writing to Engineer prior to proceeding with the work.

### .2 Shop Drawings and Product Data

- .1 The term "Shop Drawings" means drawings, diagrams, illustrations, schedules, performance charts, brochures and other data which are to be provided by Contractor to illustrate details of a portion of Work.
- .2 Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connection, explanatory notes and other information necessary for completion of Work.
- .3 Make changes in shop drawings as Engineer may require.
- .4 Contractor's responsibility for errors and omissions in submission is not relieved by Engineer's review of submittals.
- .5 Contractor's responsibility for deviations in submission from requirements of Contract Documents is not relieved by Engineer's review.
- .6 Keep one reviewed copy of each submission on Site.
- .7 Detail all shop drawings using the metric system. Prepare a drafting standard equivalent to that of Contract drawings.

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- .8 Engineer will supply a Shop Drawing Review Stamp. Stamp all transparencies and copies of shop drawings submitted for review.
- .9 Fill in the following information on the Shop Drawing Review Stamp on each shop drawing prior to submitting the drawing to the Engineer:
  - .a PINTER & Associates Project. No. -- "2875"
  - .b Drawing Number.
  - .c Date of submission.
- .10 Maintain a complete Shop Drawing Record showing the review status of all shop drawings on the work. Provide Engineer with a copy of this record on a monthly basis or as requested by Engineer.
- .11 Submit shop drawings to Engineer for review with a Transmittal Form as provided by Engineer or in a form acceptable to Engineer. Type or print the appropriate information on the form to fully describe the drawings being sent for review. Retain a photocopy of the form for filing and record purposes before drawings are sent to Engineer.
- .12 Transmittal form or shop drawing stamp to be signed by
  Contractor's authorized representative certifying approval of
  submission, verification of field measurements and compliance with
  Contract Documents
- .13 Submit electronic copies of product data sheets or brochures for requirements requested in specification Sections and as Engineer may reasonably request where shop drawings will not be prepared due to standardized manufacture of product.
- .14 Submit electronic files of shop drawings for each requirement requested in specification Sections and as Engineer may reasonably request.
- .15 During review, Engineer will mark drawings to indicate review status:
  - a "REVIEWED" Make and distribute additional copies as required for execution of the Work.
  - .b "REVISE & RESUBMIT" Make the necessary revisions and resubmit revised drawings for review. Show the drawing number of the first such revised drawing and show the latest revision number applicable to the drawing by adding a suffix to the drawing number as "REV. 1", "REV. 2", etc.
  - .c "NOT REVIEWED" This notation indicates that Engineer has not reviewed the drawing. It may also be used in combination with the notation to revise and resubmit the drawing where Engineer lacks sufficient information to complete the review and requires resubmission of the drawing for review after revision.
  - .d Drawings will be marked "REVIEWED" together with the notation "REVISE & RESUBMIT" when Engineer requires resubmission of a revised drawing showing corrections made as a result of Engineer's notations on the shop drawings. This procedure will not relieve Contractor of responsibility for errors or omissions in the shop drawings or of responsibility for meeting all requirements of Contract.

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- .16 Use only those shop drawings on the work that bear the "REVIEWED" notation.
- .17 Do not revise shop drawings marked "REVIEWED" unless resubmitted to Engineer for further review.
- .18 Determine which shop drawings have, in addition to those drawings specifically mentioned in Contract, design elements requiring the seal of a Professional Engineer registered in the Province or Territory where Work is located, in accordance with the applicable provincial or federal engineering acts or other governing legislation. Seal such drawings before submitting them for review. Submit for review engineering calculations signed by the registered Professional Engineer responsible for the shop drawing design elements.
- .19 Review by Engineer is for the sole purpose of ascertaining conformance with the general design concept. This review does not mean that Engineer approves the detail design inherent in the shop drawings, responsibility for which remains with Contractor, and such review does not relieve Contractor of responsibility for errors or omissions in the shop drawings or of responsibility for meeting all requirements of Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job-site, for information that pertains solely to fabrication processes or to techniques of construction and installation and for coordination of the work of all sub-trades.

#### .3 Samples

- .1 Submit for review, samples in duplicate as requested in respective specification Sections.
- .2 Deliver samples prepaid to Engineer's business address.

#### .4 Operations and Maintenance Manuals

- .1 Two weeks prior to Substantial Performance of the Work, submit to Engineer, three copies of operating and maintenance manuals.
- .2 Manuals to contain operational information on equipment, cleaning and lubrication schedules, filters, overhaul and adjustment schedules and similar maintenance information.
- .3 Bind contents in a three-ring, hard covered, plastic jacketed binder. Organize contents into applicable categories of work, parallel to specifications Sections.

## .5 Record Drawings

- .1 After award of Contract, Engineer will provide a set of drawings for purpose of maintaining record drawings. During progress of the work, accurately and neatly record deviations from Contract Documents caused by site conditions and changes ordered by Engineer.
- .2 Record locations of concealed components of mechanical and electrical services.
- .3 Identify drawings as "Project Record Copy". Maintain in good condition, keep continuously updated and make available for inspection on site by Engineer.

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	.4	On completion of Work and prior documents to Engineer.	to final inspection, submit record
1.9 SCHEDULE .1	Schedu	iles Required	
	.1 .2 .3	Construction Progress Schedule. Submittal Schedule for Shop Draw Cash Allowance Schedule for pur	
.2	Format		
	.1 .2 .3	Prepare schedule in form of horiz Provide separate bar for each trad Provide horizontal time scale ider week.	le or operation. ntifying first work day of each
	.4	Format for listings: Chronologica work.	l order of start of each item of
.3	Submis	ssion	
	.1 .2	Submit initial schedules within 10 Engineer will review schedule and days after receipt.	•
	.3	Resubmit finalized schedule with copy.	in 7 days after return of reviewed
1.10 QUALITY CONTROL .1	Inspect	ion	
	.1 .2	Owner and Engineer shall have at Give timely notice requesting inspecial tests, inspections or appro- law of Place of Work.	pection if Work is designated for
	.3	If Contractor covers or permits to designated for special tests, inspe- made, uncover such Work, have i completed and make good such W	ctions or approvals before such is nspections or tests satisfactorily
.2	Indepe	ndent Inspection Agencies	
	.1	Independent Inspection/Testing A Engineer for purpose of inspectin Cost of such services will be born	g and/or testing portions of Work
	.2	Provide equipment required for exappointed agencies.	
.3	Reports	S	
	.1	Provide copies to Subcontractor of	of work being inspected/tested.
1.11 CONSTRUCTION .1	Installa	ation/Removal	
FACILITIES AND TEMPORARY CONTROLS	.1 .2	Provide construction facilities and execute Work expeditiously. Remove from site all such work a	
.2		er Enclosures	

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- .1 Provide weathertight closures to unfinished door and window openings, tops of shafts and other openings in floors and roofs.
- .2 Close off floor areas where walls are not finished; seal off other openings; enclose building interior work area for temporary heat.

#### .3 Dust Tight Screens

- .1 Provide dust tight screens or partitions to localize dust generating activities, and for protection of workers, finished areas of Work and public.
- .2 Maintain and relocate protection until such Work is complete.

#### .4 Dewatering

.1 Provide temporary drainage and pumping facilities to keep excavations and site free from standing water/contributed from all sources including, but not limited to groundwater, precipitation and seepage losses from adjacent lagoon cells. Dewater the site as required to allow for construction.

#### .5 Site Storage/Loading

- .1 Confine the Work and operations of employees to limits indicated by Contract Documents. Do not unreasonably encumber premises with Products.
- .2 Do not load or permit to be loaded any part of the Work with a weight or force that will endanger the Work.

#### .6 Sanitary Facilities

- .1 Provide sufficient sanitary facilities for workers in accordance with local health authorities.
- .2 Maintain in clean condition.
- .3 Existing facilities as designated may be used during construction period.

#### .7 Temporary Heating

- .1 Provide temporary heating required during construction period, including attendance, maintenance and fuel.
- .2 Construction heaters used inside building must be vented to outside or be non-flameless type. Solid fuel salamanders not permitted.
- .3 Maintain temperatures of minimum 10 □ C in areas where construction is in progress, unless indicated otherwise in specifications.
- .4 Ventilate heated areas and keep building free of exhaust or combustion gases.
- .5 Permanent heating system of building, or portions thereof, may be used when available. Be responsible for damage thereto.

#### .8 Temporary Power

- .1 Provide and pay for temporary power required during construction for temporary lighting and operating of power tools, to maximum supply of 230 volts 30 amps.
- .2 Arrange for connection with appropriate utility company. Pay costs for installation, maintenance and removal.

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#### .9 Equipment/Tool/Materials Storage

- .1 Provide and maintain, in clean and orderly condition, lockable weatherproof sheds for storage of tools, equipment and materials.
- .2 Locate materials not required to be stored in weatherproof sheds on site in manner to cause least interference with work activities.

#### .10 Project Cleanliness

- .1 Maintain the Work in tidy condition, free from accumulation of waste products and debris.
- .2 Remove waste material and debris from site and deposit in waste container at end of each working day.
- .3 Clean interior areas prior to start of finish work, maintain areas free of dust and other contaminants during finishing operations.

## 1.12 BASIC PRODUCT REQUIREMENTS

#### .1 Product and Material Quality

- .1 Products, materials, equipment, and articles (referred to as Products throughout specifications) 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.

#### .2 Storage, Handling and Protection

- .1 Handle and store Products in manner to prevent damage, adulteration, deterioration and soiling and in accordance with manufacturer's instructions when applicable.
- .2 Store packaged or bundled Products in original and undamaged condition with manufacturer's seals and labels intact.
- .3 Store products subject to damage from weather in weatherproof enclosures.

#### .3 Manufacturer's Instructions

- .1 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.
- .2 Notify Engineer in writing, of conflicts between specifications and manufacturer's instructions, so that Engineer may establish course of action.
- .3 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.

#### .4 Workmanship

.1 Execute Work by workers experienced and skilled in respective duties for which they are employed. Immediately notify Engineer if

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- required Work is such as to make it impractical to produce required results.
- .2 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.

#### .5 Concealment

- .1 In finished areas, conceal pipes, ducts and wiring in floors, walls and ceilings, except where indicated otherwise.
- .2 Before installation, inform Engineer if there is a contradictory situation. Install as directed by Engineer.

## 1.12 PROJECT CLOSEOUT

## Final Cleaning

- .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.
- .3 Leave work broom clean before inspection process commences.
- .4 Clean and polish glass, mirrors, hardware, wall tile, stainless steel, chrome, porcelain enamel, baked enamel, plastic laminate, mechanical and electrical fixtures. Replace broken, scratched or disfigured glass.
- .5 Remove stains, spots, marks and dirt from decorative work, electrical and mechanical fixtures, furniture fitments and walls.
- .6 Vacuum clean and dust building interiors, behind grilles, louvres and screens.
- .7 Wax, seal, shampoo or prepare floor finishes, as recommended by
- .8 Broom clean and wash exterior walks, steps and surfaces.
- .9 Remove dirt and other disfigurations from exterior surfaces.

#### .2 Systems Demonstration

- .1 Prior to final inspection, demonstrate operation of each system to Engineer.
- .2 Instruct personnel in operation, adjustment, and maintenance of equipment and systems, using provided operation and maintenance data as basis for instruction.

#### .3 Documents

- .1 Collect reviewed submittals and assemble documents executed by Subcontractors, suppliers, and manufacturers.
- .2 Submit material prior to final Application for Payment.
- .3 Submit operation and maintenance data, record drawings.
- .4 Provide warranties and bonds fully executed and notarized.
- .5 Execute transition of Performance and Labour and Materials Payment Bond(s) to warranty period requirements.
- .6 Submit a final statement of accounting giving total adjusted Contract Amount, previous payments, and monies remaining due.

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Town of Nipawin Landfill Closure Project Specification	(	GENERA	AL REQUIREMENTS	Section 01 00 00 Page 10 of 10 2024-06-21
		.7	Engineer will issue a final change adjustments to Contract Amount	
	.4	Inspect	ion/Takeover Procedures	
		.1 .2 .3	of completion of the Work and re	complete, that all construction is are corrected, and building is ancy. Notify Engineer, in writing, equest an inspection. It of deficiencies and defects will be of Total Performance. Refer to
PART 2 – PRODUCTS				
2.1 NOT USED	.1	Not use	ed.	
PART 3 – EXECUTION				
3.1 NOT USED	.1	Not use	ed.	

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PART 1 – GENERAL	_		
1.1 RELATED REQUIREMENTS	.1	CCDC 4 Unit Price Contract.	
	.2	Technical Drawings (Refer to Section 00	01 15 for list).
1.2 WORK COVERED BY CONTRACT DOCUMENTS	.1	Work of this Contract comprises general preparing a laydown area, located at SE-further identified as Project location.	
1.3 CONTRACT METHOD	1	Construct Work under unit price contract	t.
	.2	Submit Contract Bid on CCDC4-2011 Fe	orms.
	.3	CCDC Authenticity Seals will be affixed execution; these will be provided by the execution.	
	.4	Contract with Owner will be signed and and submitted to the Town of Nipawin for copy returned to Contractor.	
1.4 WORK BY OTHERS	<b>-</b> .1	The existing Landfill will remain in oper process. Coordination with Operators a be required.	
	.2	Cooperate and coordinate with all Opera of this Contract in a timely and efficient schedule, and sequence all work to accor other Contractors. No additional paymen coordinating with other Contractors as it Contract.	manner. The Contractor must nmodate the work and schedule by t will be made for cooperating and
1.5 FUNDING PROGRAM REQUIREMENTS	.1	THIS PROJECT IS PARTIALLY FU GOVERNMENTS OF CANADA ANI THE CANADA-SASKATCHEWAN I INFRASTRUCTURE PROGRAM (IC	SASKATCHEWAN THROUGH NVESTING IN CANADA
	.2	Funding program conditions of Participa	tion:
		.1 By participating in this agrees that: .a "The Third Pa harmless Canada, Sask officers, servants, emp	arty agrees to indemnify and save atchewan, the Recipient, their loyees or agents from and against all expenditures, damages, actions,

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		.b	prosecuted in a any injury to per property, econol by or arising di .1 .2 .3 .3	proceedings by whomsoever brought or my manner based upon, or occasioned by ersons, damage to or loss or destruction of omic loss or infringement of rights caused rectly or indirectly from:  this Contract; the performance of a Contract or the breach of any term or condition of it by the Third Party, its officers, servants, employees or agents; or any omission or other willful or negligent act of the Third Party, their respective officers, servants, employees or agents."  Third Party agrees that nothing in this se construed as authorizing the Third Party or to incur any obligation on behalf of chewan or the Recipient or to act as agent
1.6 SURVEY RESPONSIBILITY <sub>.1</sub>		Engineer shall p	provide all require	ed survey and layout services necessary to
	.2	Include detailed requests.	l survey notes to s	substantiate all contract progress payment
	.3		vely and construct	atical or spatial discrepancies or anomalies ively with the Engineer to resolve in a
	.4		l use machinery worecision during the	with GPS grade-control systems to ensure ne project.
1.7 WORK INCLUDED WITHIN THIS CONTRACT		This Cont	tract Includes the	following tasks:
	.1	The closure of e	existing landfill ce	ells and on-site road construction.
				re the surface, haul materials, and install stem on-site over existing cells as shown in area
1.8 QUALITY CONTROL RESPONSIBILITY	.1			ality control testing and measures necessar al requirements and specifications.
	.2			uring work is completed in a competent t is fit for purpose.
1.9 PROJECT MEETINGS	.1	Host Preconstru	action Meeting fol	llowing an award of project and prior to the

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AND COMMUNICATION		commencement of work, at no additional	l cost.
	.2	Host bi-monthly (twice a month) Progres Owner at no additional cost.	ss Meetings with Engineer and
	.3	Host Emergency or Topic Specific Meet as deemed necessary by Engineer. Prompdesires such meeting.	
	.4	Engineer to prepare and provide meeting	g records.
	.5	Established lines of communication for t and Engineer, and Owner and Engineer. directly, and/or without Engineer's know will be facilitated whenever desired; the communication between Contractor and	Contractor is not to engage Owner vledge. Tripartite communications aim of this section is not to prevent
	.6	Advise Engineer promptly if Contractor instruction is contrary to the specification agreement, for further study and direction	ns, drawings, or intent of the project
	.7	Submit written Monthly Progress Report describing incremental and cumulative e status, milestones reached, tasks complet business status update.	xpenditures on the project, schedule
1.10 CHANGE ORDERS	—.1	Change Orders will occur as defined in O	CCDC 4.
1.11 OPTIONS AND SUBSTITUTIONS	.1	The Engineer will consider requests for a provided that the requests are submitted will full details of the type of materials at the reason for the request.	in time for review and are complete
	.2	Contractor may not proceed with any sul in writing by the Engineer.	bstitution or option until authorized
	.3	Any substitution presented must provide and may not add additional cost to the pro- or project requirement, unless authorized	roject, or contradict any specification
1.12 DRAWING STATUS	<b>—</b> .1	The Issued-for-Construction version of t Engineer.	he drawings will be stamped by the
	.2	The Issued-for-Bid version of drawings in discussed with the Contractor before find will be submitted.	

will be submitted.

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1.13 SITE SUPERINTENDENT	.1 —		project at all times a co s the Contractor's represe	mpetent superintendent to oversee all entative on site.
	.2			I by the Contractor except for good consultation with the Engineer.
	.3		Owner may request a c y reason, at no additiona	hange in Site Superintendent at any al cost to the work.
1.14 EXISTING SERVICES	<b>-</b> .1	Notify, Enginee and obtain requ		of intended interruption of services
	.2	Engineer 48 hor electrical service interruptions. C	urs notice for necessary to throughout course of varry out work at times as	connecting to existing services, give interruption of mechanical or work. Minimize duration of s directed by governing authorities and tenant
	.3	Provide alternat	ive routes for personnel	, pedestrian and vehicular traffic.
	.4		on and extent of service ngineer of findings.	lines in area of work before starting
	.5	closure of active	e service or facility inclu	from Engineer for any shut-down or ading power and communications and provide notice to affected parties.
	.6	Provide temporabuilding and ter		ed by Engineer to maintain critical
	.7	Provide adequa permit normal t		s which cross sidewalks or roads to
	.8	Where unknown confirm finding		ed, immediately advise Engineer and
	.9			tive services. When inactive services oved by authorities having
	.10	Record location	s of maintained, re-route	ed and abandoned service lines.
1.15 DOCUMENTS	.1	Maintain at job	site, one copy of each do	ocument as follows:
REQUIRED	_	.1 .2 .3	Contract Drawings. Specifications. Addenda.	

.4

Reviewed Shop Drawings.

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	.5 .6 .7 .8 .9 .10	List of Outstanding Sho Change Orders. Other Modifications to Office Field Test Reports. Copy of Approved Work Health and Safety Plan a Documents. Other documents as special	Contract. k Schedule. and Other Safety Related
PART 2 – PRODUCTS  2.1 NOT USED	Not used.		
PART 3 – EXECUTION  3.1 NOT USED1	Not used.		

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Town of Nipawin Landfill Closure Project Specification	ME	EASUREMENT AND PAYMENT	Section 01 22 00 Page 1 of 6 2024-06-21
PART 1 – GENERAL			
1.1 MEASUREMENT FOR PAYMENT		For each unit price item, Engineer will calcula unit price and Engineer's determination of unit	
		For lump sum price item, Engineer will calcul price and Engineer's estimate of percentage of	
		Method of measurement to be used is detailed specification covering each work item.	in the section of the
	:	Where a method of measurement for payment specified, payment for that item will be deemed pay item or other pay items.	
1.2 PROGRESS CLAIMS	1 (	Contractor's Responsibilities:	
		Submit progress claim to Engineer w month end. Claim to cover preceding Progress claim to show estimate of posts and all materials stored at Site.  Progress claim to include all labour a Work and all materials stored at Site.  Progress claim to include all agreed e Supply documentation to support claim form of itemized lists or unpriced pur quantities.  Supply other evidence required by Enclaim.	month. ercentage of work completed. nd materials incorporated in extras and deductions. im for materials on site in the erchase orders showing
	2	Engineer's Responsibilities:	
		1 Review Contractor's claim, prepare F and issue to Owner within 10 workin Contractor's claim. 2 Engineer's estimate of percentage of calculation of payment on all Progres 3 Inform Contractor of amendments to Payment Certificate.	g days following receipt of work completed will govern s Payment Certificates.
1.3 CHANGE ORDERS		Complete and promptly return all change price quoting unit and/or lump sum prices as reques supporting documentation to verify prices.	
		Do not proceed with work affected by price reby Change Order.	quest until authorized to do so
		Make no change in Work unless Change Orde valid when signed by Engineer, Owner and Co	
1.4 MEASUREMENT AND PAYMENT ITEMS		Miscellaneous Items  1 Mobilization:	

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Town of Nipawin	MEASUREMENT AND PAYMENT	Section 01 22 00	
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- Payment for mobilization will be made at the unit price for initial mobilization to site.
- b This price will include all cost in connection with material, labour, equipment, and all work incidental thereto.

#### .2 Bonding and Insurance:

- .a Payment for Bonding and Insurance will be made at the lump sum price shown in the Bid Form. This price is to include all insurance and bonding required to complete the General Requirements as per Division "0" and "1" of this agreement.
- .b Recommendation for payment will be made after satisfactory proof that the bonding and insurance is in place.

### .3 Supervision:

- a Provide the necessary supervision and qualified tradesmen to ensure the flow of materials and on-site construction compatible with the overall project schedule and progress.
- .b Recommendation for payment will be made after satisfactory proof of proper project supervision.

#### .4 Live Out Allowance:

- a This cash allowance is intended to cover all live out expenses by the contractor.
- .b Payment for meeting the requirements of this Section shall be based on the lump sum price bid as indicated in the Bid Form and shall be paid on a monthly basis.

#### .5 Contractor Site Office:

- a The Contractor will provide his own trailer to be located at an area acceptable to the Owner. The trailer will serve as an office space and lunchroom for the site workers.
- be based on the lump sum price bid as indicated in the Bid Form and shall be paid on a monthly basis.

## .6 Survey Allowance:

- .a Scope: To allow for survey work done by the contractor or sourced by the contractor to confirm elevations, stake out and expedite the project using GPS-enabled equipment. Tie-in and Control Points will be provided to ensure a matching survey.
- .b Measurement: Shall not be measured but inspected for payment.
- .c Payment: Recommendations for payment will be made after satisfactory proof of the completed survey.

## .7 Demobilization:

- .a Payment for demobilization will be made at the unit price for final demobilization from site following completion of the Work.
- b This price will include all cost in connection with material, labour, equipment, and all work incidental thereto.

#### .2 Landfill Site Work

.1 Site Grading/Preparation

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- .a Site Grading/Preparation will include moving landfill stockpiles, fencing, shaping the site, or any other required works to begin placement and compaction of fill materials.
- .b Measurement shall be on a square meter basis as found in the Bid Form.
- .c Payment shall be made upon completion of the item, when the Work for placing and compacting fill material may proceed, upon approval of the Engineer.
- .2 Concrete and Asphalt Crushing Allowance
  - a Provision of all equipment, material and labour required for crushing on concrete and asphalt on-site to be used as Fill material for the landfill closure and/or for the laydown area.
  - .b Measurement shall be on a cubic meter basis as found in the Bid Form.
  - .c Payment shall be made upon completion of the item, when the Work for placing and compacting fill material may proceed, upon approval of the Engineer.
- .3 Excavation/Hauling/Grading, Placement, and Compaction of Fill:
  - .a Provision of all equipment, material and labour required for excavation/hauling/grading, placement and compaction of the Fill. The work includes excavation/hauling/grading and placement of suitable fill material, compaction (at 90% Proctor) to specified final grade, and all related work for which payment is not included elsewhere.

Fill material is available to be hauled to the site from land adjacent to the Landfill site, approximately 200 m from the Site. Crushed concrete and asphalt material at the site may also be used as fill.

The final grade shall be in accordance with the construction drawings, with the engineer's approval. The volume provided represents the compacted volume, not the volume of loose material.

- .b Measurement shall be on a cubic meter basis of compacted fill-in final position, determined by surveys and volume calculations.
- c Payment shall be made at the unit price found in the Bid Form on a cubic meter basis upon approval of the Engineer.

No separate payment will be made for unnecessary overexcavation or excavation work performed beyond established lines or grades unless otherwise authorized by the Owner's Representative.

- .4 Excavation/Grading, Placement, and Surface Preparation of Clean Fill:
  - .a Provision of all equipment, material and labour required for excavation/grading, placement, compaction and surface preparation of the Clean Fill material. The work includes excavation/grading and placement of suitable fill material. Fill material is available to be hauled to the site

## MEASUREMENT AND PAYMENT

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from land adjacent to the Landfill site approximately 200 m from the Site.

Surface preparation shall be conducted so that the finished surface has no sharp objects or anything that could tear the liner.

Final grade shall be in accordance with construction drawings to the approval of the Engineer.

- Measurement shall be on a cubic meter basis of compacted fill, determined by surveys and volume calculations.
   Measurement is taken in the final position.
- c. Payment shall be made at the unit price found in the Bid Form on a cubic meter basis upon approval of the Engineer.

No separate payment will be made for unnecessary overexcavation or excavation work performed beyond established lines or grades unless otherwise authorized by the Owner's Representative.

- .5 Supply and Delivery of GCL Liner:
  - Supply and delivery of GCL Liner in accordance with Section 312710 Geosynthetic Clay Liner.
  - .b Measurement shall be made in square meters.
  - .c Payment will be made at the unit price found on the Bid Form on a square meter basis upon delivery to site and approval of Engineer.
- .6 Installation of GCL Liner:
  - .a Installation of GCL Liner in accordance with Section 312710 Geosynthetic Clay Liner.

Liner will require 0.3 m (12 in) overlap and will need to be trenched in to ensure liner integrity.

- .b Measurement shall be made as a lump sum.
- .c Payment will be made at the unit price found on the Bid Form on a square meter basis following installation and approval by Engineer.

No separate payment will be made for extra overlapping of materials unless otherwise agreed to.

- .7 Placement and Compaction of Sand Subsoil:
  - .a Provision of all equipment, material and labour required for excavation/grading, placement and compaction of the subsoil material. The work includes excavation/grading and placement of the local soil; and all related work for which payment is not included elsewhere. Subsoil material is available to be hauled to the site from

Subsoil material is available to be hauled to the site from land adjacent to the Landfill site approximately 200 m from the Site.

Final grade shall be in accordance with construction drawings to the approval of the Engineer.

- Measurement shall be on a cubic meter basis of compacted fill, determined by surveys and volume calculations.
   Measurement is taken in the final position.
- c Payment will be made on a per cubic meter basis at the rate found in the Bid Form upon approval of the Engineer.

No separate payment will be made for unnecessary over-excavation or excavation work

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performed beyond established lines or grades unless otherwise authorized by the Owner's Representative.

No separate payment will be made for damages or for unstable soil conditions caused by surface drainage after the commencement of construction and during the maintenance period.

- .8 Hauling, Placement and Grading of Topsoil:
  - .a Provision of all equipment, material and labour required for hauling, placing and grading topsoil as specified in the contract drawings.

Topsoil material is available to be hauled to the site from land adjacent to the Landfill site approximately 200 m from the Site.

- .b Measurement shall be on a cubic meter basis of compacted fill, determined by surveys and volume calculations.
   Measurement is taken in the final position.
- .c Payment shall be made at the unit price found in the Bid Form on a cubic meter basis upon approval of the Engineer.

No separate payment will be made for unnecessary overexcavation or excavation work performed beyond established lines or grades unless otherwise authorized by the Owner's Representative.

- .9 Seeding and Fertilizing
  - a Provision of all equipment, material, and labour required for placement of fertilizer and grass seed that will thrive in the area and fertilizer. The work includes supply and placement of seed and fertilizer and all related work for which payment is not included elsewhere.
  - .b Measurement shall be on a square meter basis.
  - c Payment will be made on a square meter basis at the rate found in the Bid Form upon approval of the Engineer.

No separate payment will be made for additional work performed unless otherwise authorized by the Owner's representative.

- .3 Laydown Area Site Work
  - .1 Site Grading/Preparation
    - .a Site Grading/Preparation will include moving landfill stockpiles, fencing, shaping the site, or any other required works to begin placement and compaction of fill materials.
    - .b Measurement shall be on a square meter basis as found in the Bid Form.
    - .c Payment shall be made upon completion of the item, when the Work for placing and compacting fill material may proceed, upon approval of the Engineer.
  - .2 Laydown Area Cut and Subgrade Scarification and Compaction:
    - .a Provision of all equipment, material and labour required for excavation/grading of cut material. The work includes excavation/hauling/grading of cut material to specified final grade, and all related work for which payment is not included elsewhere. The top 600 mm of the subgrade after

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		.b .c .B .b .c .b .c	be done in lifts of a maxim using mechanical compaction minimum of 98% of the state optimum moisture content. Final grade shall be in according drawings to the approval of Measurement will be on a decay action determined by scalculations.  Payment shall be made at the Form on a cubic meter base Engineer.  No separate payment will be excavation or excavation we established lines or grades the Owner's Representative of the placement of the cuconcrete/asphalt, grading a includes placement, grading a includes placement, grading compaction. Compaction of maximum of 150 mm loose compaction equipment/devent standard Proctor density at Final grade shall be in according drawings to the approval of Measurement shall be on a fill, determined by surveys Measurement is taken in the Payment shall be made at the Form on a cubic meter base Engineer.  No separate payment will be excavation or excavatio	andard Proctor density at ordance with construction of the Engineer. Source and volume the unit price found in the Bid is upon approval of the ore made for unnecessary overwork performed beyond unless otherwise authorized by e.  In of Fill in 150 mm Lifts: In material and labour required to material and or crushed and compaction of Fill. The word of the fill material, and will be done in lifts of a ematerial using mechanical vice to a minimum of 98% of the optimum moisture content. For ordance with construction of the Engineer.  In ordance with construction of the Engineer.
PART 2 – PRODUCTS	_			
2.1 NOT USED	1	Not Used.		
PART 3 – EXECUTION				

3.1 NOT USED .1 Not Used.

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Town of Nipawin Landfill Closure Project Specification		MANAGEMENT AND CO-ORDINATION	Section 01 28 00 Page 1 of 2 2024-06-21
PART 1 – GENERAL			
1.1 CO-ORDINATION	.1	Co-ordinate all construction activities construction of each and every part of	
	.2	Where construction of one part of the other parts, schedule and co-ordinate oneeded to obtain the best results.	
	.3	Where availability of space is limited, parts of the Work to provide maximum service, and repair.	
	.4	Make adequate provisions to accommodomstruction by Other Contractors or b	
1.2 COMMUNICATION EQUIPMENT	.1	Provide suitable computer equipment specified in this section for exchange of following types of documents:	
		<ul> <li>.1 Letters and Memos</li> <li>.2 Document Readers</li> <li>.3 Schedules</li> <li>.4 Drawings</li> <li>.5 Communication</li> </ul>	Microsoft Word Adobe Acrobat Reader Microsoft Project AutoCAD Microsoft Outlook
1.3 COMMUNICATION METHODS	.1	Communications will be sufficiently g methods:	given by any one of the following
		section.  .2 Mailed at any post office to the this section.  .3 Couriered to the Contractor's Transmitted by facsimile to the specified in this section.	Contractor, the Contractor's Contractor's address as specified in this he Contractor's address as specified in address as specified in this section. he Contractor's facsimile number as e Contractor's e-mail address as
1.4 CONTRACT ADMINISTRATION	.1	Co-ordinate scheduling and timing of construction activities to avoid delays Work. Administrative procedures included:  1 Preparation and monitoring of Co-ordination of construction Co-ordination, review, and procedure in Participation in project meeting.  5 Following Contract acceptance	and provide orderly progress of the ude the following: of schedules. n and removal of temporary facilities. rocessing of submittals. ngs.
		.6 Preparation of change order p	

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Town of Nipawin		MANAGEMENT AND	Section 01 28 00		
Landfill Closure Project		CO-ORDINATION	Page 2 of 2		
Specification			2024-06-21		
1.5 CONTRACTOR'S ADDRESS FOR CORRESPONDENCE	1	Submit the name, address, telephone number address to be used for correspondence with the date of commencement of the Contract. Uchanges during the Contract.	the Contractor within 10 days of		
1.6 OWNER'S ADDRESS FOR	1	The Oumer will provide to the Contractor the	nome address telephone		
CORRESPONDENCE	ı	The Owner will provide to the Contractor the number, facsimile number, and e-mail address			
		with the Owner within 10 days of the date of commencement of the Contract. This information will be updated as required during the Contract.			
1.7 CONTRACTOR'S	1	Submit an organization chart showing the na	mes positions telephone		
REPRESENTATIVES AND	1	numbers, and responsibilities and levels of a	uthority for the Contractor's		
SITE MANAGEMENT		representatives and site management organization, within 10 days of commencement of the Contract, and update whenever information changes during the Contract.			
1.8 OWNER'S REPRESENTATIVES AND ASSISTANTS	1	The Owner will provide to the Contractor an names, positions, telephone numbers, and resauthority for the Owner's Representative and date of commencement of the Contract and vinformation changes during the Contract.	sponsibilities and levels of assistants, within 10 days of the		
PART 2 – PRODUCTS					
2.1 NOT USED	1	Not Used.			
PART 3 – EXECUTION					
<u>3.1 NOT USED</u> .1	1	Not Used.			

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Town of Nipawin	PAYMENT PROCEDURES	Section 01 29 00
Landfill Closure Project		Page 1 of 3
Specification		2024-06-21
PART 1 – GENERAL		
1.1 REFERENCES1	Canadian Construction Documents Co	ommittee (CCDC)
	.1 CCDC 4-2011, Unit	t Price Contract.
1.2 APPLICATIONS  EOR PROCEESS	Refer to CCDC 4.	
FOR PROGRESS PAYMENT .2	Make applications for payment on acc	ocupt provided in Agreement monthly
I A I IVIEN I	Make applications for payment on accase Work progresses.	count provided in Agreement monthly
.3		
	monthly payment period and ensure a proportionate to amount of Contract, of	
	delivered to Place of Work at that date	
.4	Submit to Engineer, at least 14 days b Schedule of values for parts of Work,	
	Price, to facilitate evaluation of applic	
1.3 SCHEDULE OF VALUES .1	Refer to CCDC 4.	
.2	Provide schedule of values supported	by evidence as Engineer may
	reasonably direct and, when accepted	
	applications for payment.	
.3	Include statement based on schedule of	of values with each application for
	payment.	
.4	Support claims for products delivered	to Place of Work but not yet
	incorporated into Work by such evide	
	require to establish value and delivery	of products.
1.4 PROGRESS	Refer to CCDC 4.	
PAYMENT		
.2	,	• •
	application for payment, certificate fo such other amount as Engineer determ	
	application, Engineer will give notific	
	amendment.	
1.5 SUBSTANTIAL .1	Refer to CCDC 4.	
PERFORMANCE OF WORK		
.2		rehensive list of items to be completed
	or corrected and apply for a review by Performance of Work. Failure to inc	•
	responsibility to complete Contract.	rade Remis on fist does not after
	-	

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Town of Nipawin Landfill Closure Project Specification	PAYMENT PROCEDURES	Section 01 29 00 Page 2 of 3 2024-06-21
	review Work to verify validity of ap	f list and application, Engineer will oplication and, no later than 7 days after ractor if Work or designated portion of
	Engineer will state date of Substanti portion of Work in certificate.	ial Performance of Work or designated
	Immediately following issuance of a Work, establish reasonable date for Engineer.	certificate of Substantial Performance of finishing Work in consultation with
1.6 PAYMENT OF HOLDBACK UPON	Refer to CCDC 4.	
SUBSTANTIAL .	2 After issuance of certificate of Subs	tantial Performance of Work:
PERFORMANCE OF WORK  .3	products, construction mac indebtedness which may ha Performance of Work and responsible have been paid	ment of holdback amount. at accounts for labour, subcontracts, thinery and equipment, and other ave been incurred in Substantial for which Owner might in be held in full, except for amounts properly identified amount in dispute.
	After receipt of application for payr issue certificate for payment of hold	nent and sworn statement, Engineer will lback amount.
	payable on day following expiration legislation applicable to Place of Wo or apply, holdback amount is due ar legislation, industry practice, or pro parties. Owner may retain out of ho satisfy liens against Work or, if per	r payment of holdback amount is due and a of holdback period stipulated in lien ork. Where lien legislation does not exist and payable in accordance with other visions which may be agreed to between ldback amount sums required by law to mitted by lien legislation applicable to enetary claims against Contractor which
1.7 FINAL PAYMENT	Refer to CCDC 4.	
	2 Submit application for final paymen	nt when Work is completed.
	payment, review Work to verify val	idity of application. Engineer will give or give reasons why it is not valid, no
	Engineer will issue final certificate payment is found valid.	for payment when application for final

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Town of Nipawin		PAYMENT PROCEDURES	Section 01 29 00
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PART 2 – PRODUCTS	_		
2.1 NOT USED	1	Not Used.	
PART 3 – EXECUTION	_		
3.1 NOT USED	2	Not Used.	
	 2	Not Used.	

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Landfill Closure Project		CONTRACT WELLTHOO	Page 1 of 4
Specification			2024-06-21
PART 1 – GENERAL	_		
1.1 ADMINISTRATIVE RESPONSIBILITIES	.1	The Owner will be responsible for admin following Contract meetings:	sistrative requirements for the
		<ul><li>.1 Preconstruction</li><li>.2 Construction Progress</li><li>.3 Environment</li></ul>	
	.2	The Contractor shall be responsible for a following Contract meetings:	dministrative requirements for the
		<ul><li>.1 Workplace Orientation</li><li>.2 Safety</li></ul>	
	.3	The Owner or the Contractor may reques installation of equipment, commissioning resolution, environmental issues. Unless the Contractor, the Owner will be responrelated to these meetings. The agenda for with that of the construction progress me	g progress, warranty, dispute otherwise specifically requested by sible for administrative duties these meetings may be combined
1.2 ADMINISTRATIVE REQUIREMENTS	.1	The administrative requirements for Confollowing:	tract meetings include the
		<ul><li>.1 Scheduling and administering the progress of the Work.</li><li>.2 Preparing the agenda for the me</li></ul>	ne Contract meetings throughout the etings.
		.3 Distributing to the relevant atten	ndees written notice of each meeting t 3 days in advance of the meeting
		<ul><li>.4 Presiding at the meetings.</li><li>.5 Recording the minutes including proceedings and decisions, and a</li></ul>	
		.6 Reproducing and distributing co	opies of the minutes within 7 days g participants and affected parties
	.2	Representatives of the Contractor, Subco meetings as necessary and be authorized represents.	
1.3 PRE-CONSTRUCTION MEETING	.1	Frequency: Within 15 days after award o commencement of activities at the Site.	f the Contract and prior to
	.2	Purpose: To review personnel assignmen submissions, and administrative and proc	
	.3	Attendees:	
		.1 Contractor's representatives: sen superintendent, major Subcontra .2 Owner's representatives: as dete	actors, and others as necessary.

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Agenda may include the following:

- .2 Schedule of the Work and progress scheduling.
- .3 Schedule of submittals.
- .4 Requirements for temporary facilities, site signage, offices, storage sheds, utilities, and fences.
- .5 Schedule of equipment delivery.
- .6 Site safety and security.
- .7 Contemplated changes, change orders, approvals required, costing and mark-up percentages permitted, time extensions, overtime, and administrative requirements.
- .8 Products and materials provided by the Owner.
- .9 Record documents.
- .10 Maintenance manuals.
- .11 Takeover procedures, acceptance, and warranties.
- .12 Monthly progress claims, administrative procedures, and holdbacks.
- .13 Inspection and testing.
- .14 Insurance and transcripts of policies.
- .15 Environmental management principles.
- .16 Mobilization to the Site.

## 1.4 CONSTRUCTION PROGRESS MEETINGS

- .1 Frequency: Weekly during the course of the Work.
- .2 Purpose: To monitor construction progress, to identify problems and actions required for their solution, and to expedite the Work.

#### .3 Attendees:

- .1 Contractor's representatives: site superintendent and, when so requested by the Owner, Subcontractors, Suppliers, and other parties involved in the Work.
- .2 Owner's representatives: as determined by the Owner.

## .4 Agenda may include the following:

- .1 Review and approval of minutes of the previous meeting.
- .2 Review of the Work progress since the previous meeting.
- .3 Field observations, problems, and conflicts.
- .4 Problems that impede the construction schedule.
- .5 Off-site fabrication delivery schedules.
- .6 Corrective measures and procedures to regain the Contract schedule.
- .7 Revisions to the construction schedule.
- .8 Progress and schedule for the succeeding work period.
- .9 Submittal schedules.
- .10 Adherence to quality standards.
- .11 Contemplated changes effect on the construction schedule and Contract Time.
- .12 Contentious items of the Work.
- .13 Contract closeout issues.
- .14 Safety and security issues.
- .15 Environmental issues.

Town of Nipawin	CON	ITRAC	T MEETINGS		Section 01 31 20
Landfill Closure Project					Page 3 of 4
Specification					2024-06-21
	.16	6 C	Other business.		
1.5 WORKPLACE ORIENTATION MEETINGS		s frequer ork on t	ntly as required for all new he Site.	workers p	rior to commencement of
		-	to familiarize new workers security requirements.	rs with site	conditions, rules, regulations
		ttendees ork on th		or and Ow	ner personnel scheduled to
	.4 Ag	genda m	ay include the following:		
	.1	P	·	ng areas of	work and other concurrent
	.2	H e	Iazardous areas including quipment traffic, blasting,	and chemic	cal or explosive storage, etc.
	.3		afety equipment to be wor pecial requirements.	n by worke	ers, including areas with
	.4		raffic routes on the Site.		
	.5		vacuation procedures.		
	.6		irst aid procedures.		
	.7 .8		xcavation or work permit VHMIS (Workplace Hazai		
	.0		equirements for handling a		
	.9		ire safety rules and regula		
	.10		tules and regulations regar rugs, alcohol, etc.	ding wildli	fe, environmental concerns,
1.6 SAFETY MEETINGS	1 5		XX 11	.1	
NO SAM ETT MEETINGS		equency ork.	: Weekly, or more, during	the course	of the Work for each area of
		irpose: 7 easures.	To review safety concerns	and implen	nent preventive safety
	.3 At	ttendees	: Contractor's and Owner's	personnel	for each area of work.
	.4 Ag	genda m	ay include the following:		
	.1		eview and discussion of s nisses."	afety conce	erns, accidents, and "near
	.2	R	temedial or preventive act	ions to be t	aken.
1.7 ENVIRONMENTAL					
MEETINGS	rec iss	quired b sues, the	y the Owner to deal with i	ssues that r agenda for	ent meetings weekly or as may arise. Dependent on the environmental meetings with
	.2 Pu	ırpose: 🏾	To review environment iss	ues and im	plement mitigative measures.
		ttendees		•	-
	.1			e Contracto	or's site superintendent and
	.1	W	hen so requested by Own	er, subcont	ractors, suppliers and other or's representatives shall be

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Town of Nipawin	C	CONTR	ACT MEETINGS	Section 01 31 20
Landfill Closure Project				Page 4 of 4
Specification				2024-06-21
	.4	.2 Agenda	qualified and authorized to act represents.  Owner's representatives: as det a to include the following:	
		.1 .2 .3 .4	_	ve action to be taken.
PART 2 – PRODUCTS	_			
2.1 NOT USED	1	Not Us	ed.	
PART 3 – EXECUTION	_			
3.1 NOT USED	1	Not Us	ed.	

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Town of Nipawin Landfill Closure Project Specification		PROCEDURES	Page 1 of 5 2024-06-21
Specification			2021 00 21
PART 1 – GENERAL			
1.1 MEASUREMENT OF PAYMENT	.1	All work described in this section is consider elsewhere and is deemed included in the pric the Unit Price Table. Therefore no separate p included in this section.	es provided by the Contractor in
1.2 ADMINISTRATIVE			
1.2 ADMINISTRATIVE	1	Submit to Engineer submittals listed for review orderly sequence to not cause delay in Work is not considered sufficient reason for extension by reason of such default	. Failure to submit in ample time ion of Contract Time and no
	.2	Do not proceed with Work affected by subm	ittal until review is complete.
	.3	Present shop drawings, product data, samples units.	s and mock-ups in SI Metric
	.4	Where items or information is not produced it values are acceptable.	in SI Metric units converted
	.5	Review submittals prior to submission to Engthat necessary requirements have been determent that each submittal has been checked and requirements of Work and Contract Docume signed, dated and identified as to specific probeing examined and considered rejected.	nined and verified, or will be, d co-ordinated with nts. Submittals not stamped,
	.6	Notify Engineer, in writing at time of submis from requirements of Contract Documents st	
	.7	Verify field measurements and affected adjacent	cent Work are co-ordinated.
	.8	Contractor's responsibility for errors and omi relieved by Engineer's review of submittals.	issions in submission is not
	.9	Contractor's responsibility for deviations in s Contract Documents is not relieved by Engin	
	.10	Keep one reviewed copy of each submission	on site.
1.3 SHOP DRAWINGS AND PRODUCT DATA	.1	The term "shop drawings" means drawings, of schedules, performance charts, brochures and provided by Contractor to illustrate details of	d other data which are to be
	.2	Submit drawings stamped and signed by proflicensed in Saskatchewan of Canada.	fessional engineer registered or

- .3 Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connections, explanatory notes and other information necessary for completion of Work. Where articles or equipment attach or connect to other articles or equipment, indicate that such items have been coordinated, regardless of Section under which adjacent items will be supplied and installed. Indicate cross references to design drawings and specifications.
- .4 Allow 14 days for Engineer's review of each submission.
- .5 Adjustments made on shop drawings by Engineer are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to Engineer prior to proceeding with Work.
- .6 Make changes in shop drawings as Engineer may require, consistent with Contract Documents. When resubmitting, notify Engineer in writing of revisions other than those requested.
- .7 Accompany submissions with transmittal letter, containing:
  - .1 Date.
  - .2 Project title and number.
  - .3 Contractor's name and address.
    - .a Identification and quantity of each shop drawing, product data and sample.
  - .4 Other pertinent data.
- .8 Submissions include:
  - .1 Date and revision dates.
  - .2 Project title and number.
  - .3 Name and address of:
    - .a Subcontractor.
    - .b Supplier.
    - .c Manufacturer.
  - .4 Contractor's stamp, signed by Contractor's authorized representative certifying approval of submissions, verification of field measurements and compliance with Contract Documents.
  - .5 Details of appropriate portions of Work as applicable:
    - .a Fabrication.
    - Layout, showing dimensions, including identified field dimensions, and clearances.
    - .c Setting or erection details.
    - .d Capacities.
    - .e Performance characteristics.
    - .f Standards.
    - .g Operating weight.
    - .h Wiring diagrams.
    - i. Single line and schematic diagrams.
    - .j Relationship to adjacent work.
- .9 After Engineer's review, distribute copies.

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Town of Nipawin	SUBMITTAL	Section 01 33 00
Landfill Closure Project	PROCEDURES	Page 3 of 5
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- .10 Submit one electronic copy of shop drawings for each requirement requested in specification Sections and as Engineer may reasonably request.
- .11 Submit electronic copies of product data sheets or brochures for requirements requested in specification Sections and as requested by Engineer where shop drawings will not be prepared due to standardized manufacture of product.
- .12 Submit electronic copies of test reports for requirements requested in specification Sections and as requested by Engineer.
  - .1 Report signed by authorized official of testing laboratory that material, product or system identical to material, product or system to be provided has been tested in accord with specified requirements.
  - .2 Testing must have been within 3 years of date of contract award for project.
- .13 Submit electronic copies of certificates for requirements requested in specification Sections and as requested by Engineer.
  - .1 Statements printed on manufacturer's letterhead and signed by responsible officials of manufacturer of product, system or material attesting that product, system or material meets specification requirements.
  - .2 Certificates must be dated after award of project contract complete with project name.
- .14 Submit electronic copies of manufacturer's instructions for requirements requested in specification Sections and as requested by Engineer.
  - .1 Pre-printed material describing installation of product, system or material, including special notices and Material Safety Data Sheets concerning impedances, hazards and safety precautions.
- .15 Submit electronic copies of Manufacturer's Field Reports for requirements requested in specification Sections and as requested by Engineer.
- .16 Documentation of the testing and verification actions taken by manufacturer's representative to confirm compliance with manufacturer's standards or instructions.
- .17 Submit electronic copies of Operation and Maintenance Data for requirements requested in specification Sections and as requested by Engineer.
- .18 Delete information not applicable to project.
- .19 Supplement standard information to provide details applicable to project.
- .20 If upon review by Engineer, no errors or omissions are discovered or if only minor corrections are made, copies will be returned and fabrication and installation of Work may proceed. If shop drawings are rejected, noted copy will be returned and resubmission of corrected shop drawings, through same

Town of Nipawin		SUBMITTAL	Section 01 33 00
Landfill Closure Project Specification	-	PROCEDURES	Page 4 of 5 2024-06-21
		procedure indicated above, must be installation of Work may proceed.	e performed before fabrication and
	.21	The review of shop drawings by E conformance with general concept	ngineer is for sole purpose of ascertainin.
		inherent in shop drawings with Contractor submittin Contractor of responsibilidrawings or of responsibiliconstruction and Contract Without restricting generates responsible for dimension site, for information that p	an that Engineer approves detail design s, responsibility for which shall remain ag same, and such review shall not relieve ty for errors or omissions in shop lity for meeting requirements of a Documents.  Ality of foregoing, Contractor is as to be confirmed and correlated at job pertains solely to fabrication processes of the confirmed and for co-ordination and installation and for co-ordination
	<b>—</b> .1	Submit for review samples in dupl specification Sections. Label samp	
	.2	Deliver samples prepaid to Engine	er's business address.
	.3	Notify Engineer in writing, at time from requirements of Contract Doo	of submission of deviations in samples cuments.
	.4	Where colour, pattern or texture is	criterion, submit full range of samples.
	.5		Engineer are not intended to change ct value of Work, state such in writing to Work.
	.6	Make changes in samples which E Contract Documents.	ngineer may require, consistent with
	.7	Reviewed and accepted samples w material against which installed W	ill become standard of workmanship and ork will be verified.
1.5 PHOTOGRAPHIC DOCUMENTATION	.1		f colour digital photography in jpg formatorogress statement and as directed by
	.2	Project identification: name and nu indicated.	imber of project and date of exposure
	.3	Number of viewpoints: 4 locations	
		.1 Viewpoints and their loca	tion as determined by Engineer.

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Town of Nipawin	S	UBMITTAL	Section 01 33 00
Landfill Closure Project	PROCEDURES		Page 5 of 5
Specification			2024-06-21
	.4	Frequency of photographic documentation: we Engineer.	eekly and as directed by
1.6 CERTIFICATES AND TRANSCRIPTS	.1	Immediately after award of Contract, submit V status.	Vorkers' Compensation Board
	.2	Submit transcription of insurance immediately	after award of Contract.
PART 2 – PRODUCTS  2.1 NOT USED  PART 3 EXECUTION	- 1	Not Used.	
PART 3 – EXECUTION	_		
3.1 NOT USED	<b>—</b> .1	Not Used.	

Submit for review, shop drawings, product the Contract Documents and for such other reasonably request.  Until submittal is reviewed, do not proceed product.  Shop drawings means technical data special	r items as the Engineer may			
the Contract Documents and for such other reasonably request.  Until submittal is reviewed, do not proceed product.	2024-06-21  t data and samples called for by r items as the Engineer may			
the Contract Documents and for such other reasonably request.  Until submittal is reviewed, do not proceed product.	r items as the Engineer may			
the Contract Documents and for such other reasonably request.  Until submittal is reviewed, do not proceed product.	r items as the Engineer may			
the Contract Documents and for such other reasonably request.  Until submittal is reviewed, do not proceed product.	r items as the Engineer may			
product.	d with work involving the relevant			
Shop drawings means technical data special				
schedules, templates, patterns, reports, calc	Shop drawings means technical data specially prepared for work of this Contract; including drawings, diagrams, performance curves, data sheets, schedules, templates, patterns, reports, calculations, instructions, measurements and similar information not in standard printed form.			
Present shop drawings in a clear and thoro illustrate the work.	ugh manner to appropriately			
Identify field dimensions on drawings.				
Identify shop drawings by appropriate referoom numbers.	erences to sheet, detail, schedule or			
Maximum drawing size: 860 x 1 120 mm.				
Leave a clear space of 100 mm x 75 mm o placement of Engineer's review stamp.	on each sheet of shop drawings for			
Submit one set of sepias for each required	shop drawing.			
Product data means standard printed information products, equipment and systems; not specific Contract, other than the designation of selections.	cially prepared for work of this			
Clearly mark product data to identify prod	ucts.			
Manufacturer's standard schematic drawin schedules, performance charts, illustration accepted in lieu of shop drawings provided	s and descriptive data will be			
<ul> <li>.1 information not applicable to wor</li> <li>.2 standard information is suppleme applicable to the work of this Cor</li> </ul>	nted with information specifically			
Submit clear reproducible information as f	follows:			
	216 mm x 355 mm. Submit mylars. 6 mm x 355 mm or smaller. copied sheets.			
	<ul> <li>.2 standard information is suppleme applicable to the work of this Cor</li> <li>Submit clear reproducible information as f</li> <li>.1 One copy when product data is su</li> <li>.a Data sheets larger than 2</li> </ul>			

Information that can not be duplicated using a photocopier with an automatic document feeder, such as bound or

Information containing photographs or other information that does not reproduce well on a commercial photocopier.

multi-fold information.

.b

A-NMS012200++ Town of Nipawin		SHOP DRAWINGS, PRODUCT	Section 01 34 00
Landfill Closure Project		DATA AND SAMPLES	Page 2 of 3
Specification Specification			2024-06-21
Specification			2021 00 21
1.4 SAMPLES .1		Samples means cuts or containers of mate manufactured or fabricated components w products proposed for use and which estal the work will be judged.	hich are physically identical to
	.2	Label samples as to origin and intended u	se in the Work.
1.5 SUBMITTAL PREPARATION	.1	Review, date and sign, shop drawings, prosubmission.	oduct data and samples, prior to
	.2	Determine and verify:	
		<ul> <li>.1 Field measurements.</li> <li>.2 Field construction criteria.</li> <li>.3 Catalogue numbers and similar d</li> <li>.4 Conformance with Contract Doc</li> </ul>	
	.3	Coordinate each submittal with requireme documents. Individual drawings will not be drawing and product data are available.	
	.4	Notify Engineer, in writing, on the submit of deviations from requirements of Contra	
1.6 SUBMISSION REQUIREMENTS	.1	Make submittals sufficiently in advance of be required and, in such sequence, as to can	
	.2	Accompany submittals with transmittal le	tter, containing:
		<ul> <li>.1 Date.</li> <li>.2 Project title and number.</li> <li>.3 Contractor's name and address.</li> <li>.4 Number of each shop drawing, p</li> <li>.5 Other pertinent data.</li> </ul>	roduct data and sample submitted.
	.3	Submittals shall include:	
		subcontractor, or suppli .4 Contractor's stamp, initialed or si	

.4

Make corrections or changes to rejected submittals and resubmit, as specified for initial submission.

A-NMS012200++			
Town of Nipawin	S	SHOP DRAWINGS, PRODUCT	Section 01 34 00
Landfill Closure Project	Ι	DATA AND SAMPLES	Page 3 of 3
Specification			2024-06-21
1.7 RESPONSIBILITY FOR ERRORS, OMISSIONS AND DEVIATIONS	.1	Engineer's review of submittals does not reliev responsibility for errors and omissions, nor devithe Contract Documents.	
1.8 REPRODUCTION OF SUBMITTALS	.1	After final review, Engineer will reproduce at leading copies he requires, and return reviewed reproduce shall reproduce at his expense the number of coof the Work.	acible documents. Contractor
PART 2 – PRODUCTS  2.1 NOT USED	.1	Not Used.	
PART 3 – EXECUTION			
3.1 NOT USED	.1	Not Used.	

Town of Nipawin		SPECIAL PROCEDURES FOR	Section 01 35 00.06				
Landfill Closure Project		TRAFFIC CONTROL	Page 1 of 2				
Specification			2024-06-21				
PART 1 – GENERAL							
1.1 MEASUREMENT OF PAYMENT	.1	All work described in this section is considered elsewhere and is deemed included in the part the Unit Price Table. Therefore, no separation included in this section.	rices provided by the Contractor i				
1.2 PROTECTION OF							
PUBLIC TRAFFIC	1	Comply with requirements of Acts, Regulations and By Laws in force for regulation of traffic or use of roadways upon or over which it is necessary t carry out Work or haul materials or equipment.					
	.2	When working on travelled way:					
		.1 Place equipment in position to mit travelling public.	inimize interference and hazard to				
		.2 Keep equipment units as close to					
		permit and preferably on same sides.  3 Do not leave equipment on travel					
	.3	Close lanes of road only after receipt of w	-				
		.1 Before re-routing traffic erect sui of Uniform Traffic Control Device					
	.4	Keep travelled way graded, free from pot required number of lanes of traffic. Provid roadway for traffic in two-way sections the	le 7 m wide minimum temporary				
		.1 Provide 5 m wide minimum tempone-way sections through Work a					
	.5	Provide gravelled detours or temporary ro- facilitate passage of traffic around restricted					
1.3 INFORMATION AND WARNING DEVICES	1	Provide and maintain signs, flashing warn required to indicate construction activities conditions resulting from Project Work wh	or other temporary and unusual				
	.2	Supply and erect signs, barricades and mis Manual of Uniform Traffic Control Device					
	.3	Place signs and other devices in locations Uniform Traffic Control Devices for Stree					
	.4	Meet with the Engineer prior to commence signs and other devices required for projec revise list to approval of the Engineer.					
	.5	Continually maintain traffic control device	es in use:				
		<ul> <li>.1 Check signs daily for legibility, d</li> <li>.2 Clean, repair or replace to ensure</li> <li>.2 Remove or cover signs which do from day to day.</li> </ul>	clarity and reflectance.				

<u>A-NMS013500.06</u>			
Town of Nipawin Landfill Closure Project Specification		SPECIAL PROCEDURES FOR TRAFFIC CONTROL	Section 01 35 00.06 Page 2 of 2 2024-06-21
1.4 CONTROL OF PUBLIC TRAFFIC	.1	Provide competent flag personnel, trained equipped to Manual of Uniform Traffic C Highways for situations as follows:	
		brow of hills, around sharp curve oncoming traffic would not other.  4 Where temporary protection is redevices are being erected or take.  5 For emergency protection when readily available.  In situations where complete pro	of travelled roadway. one way traffic system through tigge where traffic volumes are and signal system is not in use. the employed on travelled way over tes or at other locations where the rwise have adequate warning. the equired while other traffic control of down. other traffic control devices are not tection for workers, working ot provided by other traffic control
	.2	Where roadway, carrying two way traffic hours each day, provide portable traffic si	
		<ul> <li>Adjust, as necessary, and regular of restriction.</li> <li>Ensure signal system meets requ Traffic Control Devices for Street</li> </ul>	
1.5 OPERATIONAL REQUIREMENTS	.1	Maintain existing conditions for traffic the that, when required for construction under been taken as specified and approved by the public traffic.	r contract and when measures have
	.2	Maintain existing conditions for traffic cr	ossing right of way.
	.3	Maintain existing conditions for traffic crequired for construction.	ossing right of way except when
PART 2 – PRODUCTS	_		
2.1 NOT USED	<b>-</b> .1	Not Used.	
PART 3 – EXECUTION	_		
3.1 NOT USED	<b>-</b> .1	Not Used.	

Town of Nipawin Landfill Closure Project Specification		HEALTH AND SAFETY REQUIREMENTS	Section 01 35 29.06 Page 1 of 4 2024-06-21
PART 1 – GENERAL	_		
1.1 REFERENCES	<b>-</b> .1	Canada Labour Code, Part 2, Canada Occ Regulations	cupational Safety and Health
	.2	Health Canada/Workplace Hazardous Ma (WHMIS)	aterials Information System
		.1 Safety Data Sheets (SDS).	
	.3	Province of Saskatchewan	
		.1 Occupational Health and Safety	Act, 1993, S.S. 2005.
1.2 MEAUSUREMENT FOR PAYMENT	.1	All work described in this section is conselsewhere and is deemed included in the the Unit Price Table. Therefore no separatincluded in this section.	prices provided by the Contractor in
1.3 SUBMITTALS	1	Make submittals in accordance with Sect Procedures.	ion 01 33 00 - Submittal
	.2	Submit site-specific Health and Safety Pl Notice to Proceed and prior to commence Plan must include:	
		<ul> <li>.1 Results of site specific safety ha</li> <li>.2 Results of safety and health risk operation found in work plan.</li> </ul>	zard assessment. or hazard analysis for site tasks and
	.3	Submit 2 copies of Contractor's authorize and safety inspection reports to Engineer	
	.4	Submit copies of reports or directions iss Territorial health and safety inspectors.	ued by Federal, Provincial and
	.5	Submit copies of incident and accident re	eports.
	.6	Engineer will review Contractor's site-sp provide comments to Contractor within 7 plan as appropriate and resubmit plan to 3 of comments from Engineer.	days after receipt of plan. Revise

Engineer's review of Contractor's final Health and Safety plan should not be

Medical Surveillance: where prescribed by legislation, regulation or safety program, submit certification of medical surveillance for site personnel prior

construed as approval and does not reduce the Contractor's overall

responsibility for construction Health and Safety.

.7

.8

Town of Nipawin Landfill Closure Project Specification	HEALTH AND SAFETY REQUIREMENTS	Section 01 35 29.06 Page 2 of 4 2024-06-21
	to commencement of Worlsite personnel to Engineer.	k, and submit additional certifications for any new
		Emergency Response Plan: address standard implemented during emergency situations.
1.4 FILING OF NOTICE	File Notice of Project with	Provincial authorities prior to beginning of Work
1.5 SAFETY ASSESSMENT	1 Perform site specific safety	y hazard assessment related to project.
1.6 MEETINGS	Schedule and administer Ecommencement of Work.	Health and Safety meeting with Engineer prior to
1.7 REGULATORY REQUIREMENTS	1 Do Work in accordance w	ith Section 01 41 00 - Regulatory Requirements.
1.8 PROJECT/SITE CONDITIONS	1 Work at site will involve c	contact with:
	.1 Power, water, gas .2 Motor vehicles.	s and electrical utilities.
1.9 GENERAL REQUIREMENTS	assessment prior to beginn	fic Health and Safety Plan based on hazard ning site Work and continue to implement, until final demobilization from site. Health and project specifications.
		writing, where deficiencies or concerns are noted ssion with correction of deficiencies or concerns.
1.10 RESPONSIBILITY		and safety of persons on site, safety of property on persons adjacent to site and environment to extent by conduct of Work.
	requirements of Contract I	compliance by employees with safety Documents, applicable federal, provincial, s, regulations, and ordinances, and with tfety Plan.
1.11 COMPLIANCE	1 Comply with Occupationa	l Health and Safety Regulations, 1996.

<u>A-NMS013529.06</u>			
Town of Nipawin Landfill Closure Project Specification	HEALTH A REQUIREN	ND SAFETY IENTS	Section 01 35 29.06 Page 3 of 4 2024-06-21
REQUIREMENTS .2	Comply wi Regulation		ada Occupational Safety and Health
1.12 UNFORESEEN HAZARDS .1	during perf Right to Re	ormance of Work, follow pro	ted factor, hazard, or condition occu cedures in place for Employee's h Acts and Regulations of Province verbally and in writing.
1.13 HEALTH AND SAFETY CO-ORDINATOR			and authorized representative as and Safety Co-ordinator must:
		ave working experience speci derground pipe installation.	fic to activities associated with
		ave working knowledge of oc gulations.	cupational safety and health
	.3 Bo	e responsible for completing or raining Sessions and ensuring	Contractor's Health and Safety that personnel not successfully e not permitted to enter site to
		e responsible for implementinge-specific Contractor's Health	g, enforcing daily and monitoring and Safety Plan.
	.5 B	e on site during execution of V	Vork.
1.14 POSTING OF .1 DOCUMENTS .1	conspicuot	licable items, articles, notices is location on site in accordan aving jurisdiction, and in cons	ce with Acts and Regulations of
1.15 CORRECTION OF NON-COMPLIANCE		y address health and safety no aving jurisdiction or by Engir	on-compliance issues identified by leer.
.2		gineer with written report of a safety issu	
.3	Engineer n is not corre	• •	nce of health and safety regulations
1.16 BLASTING	Blasting or	other use of explosives is not	permitted.

<u>A-NMS013529.06</u>			
Town of Nipawin	Н	EALTH AND SAFETY	Section 01 35 29.06
Landfill Closure Project	R	EQUIREMENTS	Page 4 of 4
Specification			2024-06-21
1.17 POWDER ACTUATED DEVICES	.1	Use powder actuated devices only after receipt Engineer.	of written permission from
1.18 WORK STOPPAGE	1	Give precedence to safety and health of public protection of environment over cost and schedu	
PART 2 – PRODUCTS	_		
2.1 NOT USED	1	Not Used.	
PART 3 – EXECUTION	_		
3.1 NOT USED	1	Not Used.	

<u>A-NMS013543++</u>			
Town of Nipawin Landfill Closure Project		ENVIRONMENTAL PROCEDURES	Section 01 35 43 Page 1 of 3
Specification			2024-06-21
PART 1 – GENERAL			
1.1 RELATED REQUIREMENTS	.1	Section 31 23 33.01: Excavating, Trenching	, and Backfilling.
1.2 ACTION AND INFORMATIONAL	.1	Submit in accordance with Section 01 33 00 -	Submittal Procedures.
SUBMITTALS	2	.Product Data:	
		<ul> <li>Submit manufacturer's instructions, plata sheets for products supplied through product characteristics, performance and limitations.</li> <li>Submit 1 copy of WHMIS SDS in account of the submit 1 copy of which is a submit 1 co</li></ul>	bugh contract and include criteria, physical size, finish, ecordance with Section
		Environmental Procedures.	
1.3 FIRES	<b>-</b> .1	Fires and burning of rubbish on site is not per	mitted.
1.4 DRAINAGE	1	Develop and submit erosion and Sediment Cotype and location of erosion and sediment commonitoring and reporting requirements.	
	.2	Provide temporary drainage and pumping req site free from water.	uired to keep excavations and
	.3	Ensure pumped water into waterways, sewer suspended materials.	or drainage systems is free of
	.4	Control disposal or runoff of water containing harmful substances in accordance with local a	
1.5 SITE CLEARING AND PLANT	.1	Protect trees and plants on adjacent properties	s.
PROTECTION	2	Protect trees and shrubs adjacent to constructi trucking lanes.	on work, storage areas and
	.3	Minimize stripping of topsoil and vegetation.	
1.6 WORK ADJACENT TO WATERWAYS	.1	Construction equipment to be operated on lan	d only.
	.2	Do not use waterway beds for borrow materia	1.
	.3	Waterways to be kept free of excavated fill, w	vaste material and debris.

A-NMS013543++			
Town of Nipawin Landfill Closure Project Specification		ENVIRONMENTAL PROCEDURES	Section 01 35 43 Page 2 of 3 2024-06-21
1.7 POLLUTION CONTROL	.1	Maintain temporary erosion and pollution cont this Contract.	trol features installed under
	.2	Control emissions from equipment and plant in authorities' emission requirements.	n accordance with local
	.3	Cover or wet down dry materials and rubbish to debris. Provide dust control for temporary road	
1.8 HISTORICAL/ ARCHAEOLOGICAL CONTROL	.1	Notify Engineer promptly and cease all work unhistorical, archaeological, or cultural artifacts during construction.	
1.9 NOTIFICATION	.1	Engineer will notify Contractor in writing of o Federal, Provincial or Municipal environmenta and other elements of Contractor's Environmenta	al laws or regulations, permits,
	.2	Contractor: after receipt of such notice, inform corrective action and take such action for appr	
		.1 Take action only after receipt of writt	en approval by Engineer.
	.3	Engineer will issue stop order of work until sa been taken.	tisfactory corrective action has
	.4	No time extensions granted, or equitable adjust for such suspensions.	tments allowed to Contractor
PART 2 – PRODUCTS			
2.1 NOT USED	1	Not Used.	

A-NMS013543++ Town of Nipawin Landfill Closure Project Specification	ENVIRONMENTAL PROCEDURES	Section 01 35 43 Page 3 of 3 2024-06-21
PART 3 – EXECUTION		
3.1 CLEANING .1 .2 .3 .4 .5	Progress Cleaning: clean in accordance with  1 Leave Work area clean at end of each Burying of rubbish and waste materials on since Ensure waterways and wetlands remain free disposal.  Final Cleaning: upon completion remove sur and equipment in accordance with Section 0.  Waste Management: separate waste materials at appropriate facility.	ch day.  te is not permitted.  of waste and volatile materials  plus materials, rubbish, tools 1 74 11 - Cleaning.  s for reuse and recycling.

A-NMS014100++			
Town of Nipawin Landfill Closure Project Specification		REGULATORY REQUIREMENTS	Section 01 41 00 Page 1 of 2 2024-06-21
PART 1 – GENERAL			
1.1 REQUIREMENTS INCLUDED	.1	Contractor responsible for following all requi Work including but not limited to:	red Regulations affecting the
		.1 Water Security Agency .2 Saskatchewan Power Corporation .3 Saskatchewan Water Corporation .4 Saskatchewan Telecommunications .5 Saskatchewan Energy .6 Fisheries and Oceans Canada .7 Navigation Protection Act .8 Environment Canada .9 National Energy Board .10 Occupational Health and Safety .11 Municipal by-laws and servicing sta .12 Municipal utilities .13 Saskatchewan Environment	ndards
1.2 COMPLIANCE WITH REGULATIONS	.1	Ascertain requirements and regulations of au	thorities listed above.
	.2	Comply with all such requirements and regul Work.	ations as applicable to the
	.3	Requirements set out in this Section are for g are not necessarily complete.	uidance and information and
1.3 PERMITS	.1	Notwithstanding the provisions of CCDC 4, 0 permits required from:	Owner will obtain construction
		.1 Ministry of Environment.	
	.2	Obtain all construction permits necessary for listed under the above item.	the Works other than those
1.4 WORK IN VICINITY OF OVERHEAD POWER LINES		Request power company to relocate, de-energe conductor where construction equipment may conductor.	
	.2	Obtain power company approval prior to ope m of energized conductor.	rating any equipment within 3
	.3	Where practical, avoid storage of metallic pip overhead power lines.	be sections under high voltage
	4	If pipe sections must be stored under power le effects of induced currents by grounding pipe with AWG #2 copper ground conductors and	e sections at two (2) locations
	.5	Complete and submit WCB Form 30M33 price	or to commencement of work.
1.5 MIGRATORY BIRD ACT	.1	The Migratory Bird Act prohibits disturbance	e to migratory birds, their eggs

A-NMS014100++			
Town of Nipawin	]	REGULATORY REQUIREMENTS	Section 01 41 00
Landfill Closure Project			Page 2 of 2
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		and habitat during nesting seasons. Vegetation to take place outside if the migratory bird nesti	
	2	Cleating and grubbing shall be targeted to occur nesting window for the region.	ur outside the migratory bird
	3	If clearing is to occur during the migratory ness shall employ a qualified biologist (at Contracto survey of the target area and provide recomme	or's cost) to conduct a bird
	4	the Contractor shall mitigate any delays resulti recommendations.	ing from biologist
PART 2 – PRODUCTS			
2.1 NOT USED	1	Not used.	
PART 3 – EXECUTION			
3.1 NOT USED	1	Not used.	

Town of Nipawin Landfill Closure Project Specification	REFERENCE STANDARDS	Section 01 42 19 Page 1 of 3 2024-06-21
PART 1 – GENERAL	<u> </u>	
1.1 LATEST EDITIONS	— .1 All references to specifications, standards associations refer to the latest adopted effect on the date of submission of bid specifically noted.	revision, including all amendments, in
1.2 ABBREVIATIONS	— AANDC Aboriginal Affairs and North	nern Development Canada
	AASHTO American Association of St Officials	_
	ACI American Concrete Institute	
	AFBMA Antifriction Bearing Manufa	cturers Association
	AGA American Gas Association	
	AGMA American Gear Manufacturers	s Association
	AISC American Institute of Steel Con	struction
	AMCA Air Moving and Conditioning	Association
	ANSI American National Standards In	nstitute
	API American Petroleum Institute	
	ARI Air-Conditioning and Refrigeration	on Institute
	ASCE American Society of Civil Eng	ineers
	ASHRAE American Society of Heatin Engineers	ng, Refrigerating and Air Conditioning
	ASME American Society of Mechanic	cal Engineers
	ASTM American Society for Testing	and Materials
	AWMAC Architectural Woodworkers	Manufacturers Association of Canada
	AWPA American Wood Preservers A	ssociation
	AWS American Welding Society	
	AWWA American Water Works Asso	ociation
	CAN Canadian National Standard	
	CBM Certified Ballast Manufacturers	
	CBTIC Clay Brick and Tile Institute of	of Canada
	CEC Canadian Electrical Code	
	CEMA Canadian Electrical Manufactor	urers Association

CGA Canadian Gas Association

CGRA Canadian Good Roads Association CGSB Canadian General Standards Board

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Town of Nipawin
Landfill Closure Project
Specification

## REFERENCE STANDARDS

Section 01 42 19 Page 2 of 3 2024-06-21

CISC Canadian Institute of Steel Construction

CITC Canadian Institute of Timber Construction

CLA Canadian Lumbermen Association

CMAA Crane Manufacturers Association of America

CMHC Canada Mortgage and Housing Corporation

**CPCA Canadian Painting Contractors Association** 

CPCI Canadian Prestressed Concrete Institute

CRCA Canadian Roofing Contractors Association

CRSI Concrete Reinforcing Steel Institute

CSA Canadian Standards Association

CSSBI Canadian Sheet Steel Building Institute

CUA Canadian Underwriters Association

CWB Canadian Welding Bureau

CWC Canadian Wood Council

CSPI Corrugated Steel Pipe Institute

EEI Edison Electric Institute

EEMAC Electrical and Electronic Manufacturers of Canada

FFPC Federal Fire Prevention Committee

FM Factory Mutual Engineering Corporation

IAO Insurers' Advisory Organization

IBRM Institute of Boiler and Radiator Manufacturers

IEC International Electrotechnical Commission

IEE Institution of Electrical Engineers (U.K.)

IEEE Institute of Electrical and Electronics Engineers

**IES Illuminating Engineering Society** 

IGMAC Insulated Glass Manufacturers Association of Canada

IPCEA Insulated Power Cable Engineers Association

ISA Instrument Society of America

ISO International Standardization Organization

LEMA Lighting Equipment Manufacturers Association

LTIC Laminated Timber Institute of Canada

MMA Millwork Manufacturers Association

NAAMM National Association of Architectural Metal Manufacturers

NBC National Building Code of Canada

<u>A-NMS014219++</u>		
Town of Nipawin Landfill Closure Project Specification	REFERENCE STANDARDS	Section 01 42 19 Page 3 of 3 2024-06-21
	NEC National Electrical Code	
	NESC National Electric Safety Code	
	NFPA National Fire Protection Association	On
	NLGA National Lumber Grade Authority	
	OECI Overhead Electrical Crane Institute	
	PCA Portland Cement Association	•
	PCI Prestressed Concrete Institute	
	RLM RLM Standards Institute	
	RTAC Road and Transportation Associat	ion of Canada
	SAE Society of Automotive Engineers	
	SBI Steel Boilers Institute	
	SJI Steel Joist Institute	
	SSPC Steel Structures Painting Council	
	TTMAC Terrazzo, Tile and Marble Asso	ciation of Canada
	ULC Underwriters' Laboratories of Canad	da
	USFG United States Federal Government	t
	WCB Workers' Compensation Board	
1.3 CONFORMANCE	Conform to these standards, in whole or i Specifications.	n part as specifically requested in
	If there is question as to whether any proc with applicable standards, Engineer reser or systems tested to prove or disprove con	ves the right to have such products
	The cost for such testing will be borne by conformance with Contract Documents o conformance.	
PART 2 – PRODUCTS		
2.1 NOT USED	Not used.	
PART 3 – EXECUTION		
3.1 NOT USED	Not used.	

A-NMS014500++ Town of Nipawin		QUALITY CONTROL	Section 01 45 00
Landfill Closure Project Specification		QUALITI CONTROL	Page 1 of 3 2024-06-21
			2024 00 21
PART 1 – GENERAL	-		
1.1 MEASUREMENT OF PAYMENT	.1	All work described in this section is conselsewhere and is deemed included in the the Unit Price Table. Therefore, no sepaincluded in this section.	prices provided by the Contractor in
1.2 INSPECTION	<b>-</b> .1	Allow Engineer access to Work. If part o other than Place of Work, allow access to progress.	
	.2	Give timely notice requesting inspection tests, inspections or approvals by Engine Work.	
	.3	If Contractor covers or permits to be cover for special tests, inspections or approvals Work, have inspections or tests satisfactor Work.	before such is made, uncover such
	.4	Engineer will order part of Work to be ex not in accordance with Contract Docume is found not in accordance with Contract pay cost of examination and correction.	nts. If, upon examination such work
1.3 INDEPENDENT INSPECTION AGENCIES	.1	Independent Inspection/Testing Agencies purpose of inspecting and/or testing porti	
	.2	Provide equipment required for executing appointed agencies.	g inspection and testing by
	.3	Employment of inspection/testing agenci responsibility to perform Work in accord	
	.4	If defects are revealed during inspection awill request additional inspection and/or defect. Correct defect and irregularities a Engineer. Pay costs for retesting and re-in-	testing to ascertain full degree of s advised by Engineer at no cost to
1.4 ACCESS TO WORK	1	Allow inspection/testing agencies access fabrication plants.	to Work, off site manufacturing and
	.2	Co-operate to provide reasonable facilities	es for such access

A-NMS014500++ Town of Nipawin		QUALITY CONTROL	Section 01 45 00
Landfill Closure Project		QUILLIT CONTROL	Page 2 of 3
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1.5 PROCEDURES	.1	Notify appropriate agency and Engine in order that attendance arrangements	
	.2	Submit samples and/or materials requirequested in specifications. Submit wire orderly sequence to not cause delays in	th reasonable promptness and in
	.3	Provide labour and facilities to obtain site. Provide sufficient space to store a	
	.4	All testing required to meet specificati conducted by a certified material and t by Contractor.	
	.5	Engineer may engage an independent Quality assurance testing and will pay	
1.6 REJECTED WORK	1	Remove defective Work, whether resu defective products or damage and whe which has been rejected by Engineer a Documents. Replace or re-execute in a	ther incorporated in Work or not, s failing to conform to Contract
	.2	Make good other Contractor's work da replacements promptly.	umaged by such removals or
	.3	If in opinion of Engineer it is not expe Work not performed in accordance wir deduct from Contract Price difference that called for by Contract Documents by Engineer.	th Contract Documents, Engineer will in value between Work performed and
1.7 REPORTS	.1	Submit 4 copies of inspection and test	reports to Engineer.
	.2	Provide copies to subcontractor of wor manufacturer or fabricator of material	
1.8 TESTS AND MIX DESIGNS	.1	Not Used	
PART 2 – PRODUCTS			
2.1 NOT USED	.1	Not Used.	

A-NMS014500++		
Town of Nipawin	QUALITY CONTROL	Section 01 45 00
Landfill Closure Project		Page 3 of 3
Specification		2024-06-21
PART 3 – EXECUTION		
3.1 NOT USED	Not Used.	

A-NMS014500++			
Town of Nipawin Landfill Closure Project Specification		EXISTING AND TEMPORARY FACILITIES	Section 01 51 00 Page 1 of 2 2024-06-21
PART 1 – GENERAL	_		
1.1 CONTRACTOR'S GENERAL RESPONSIILITIES FOR EXISTING UTILITIES	.1	The approximate existence of service li in the Contract Documents. Confirm the elevation of all existing service lines. Colocate all lines, conduits, and other such service lines have been omitted from or Contract Documents.	e number, type, location and contact the appropriate Utility to a structures. Notify the Owner if any
	.2	Identify, stake, and flag all existing servaintain staking and flagging.	vice line locations and elevations.
	.3	Notify the appropriate Utility prior to c of the service lines. Comply with the re with, each Utility for the location and p the Work.	quirements of, and co—operate fully
	.4	Be responsible to the Utility for any cla service lines as a result of the Contracto	
	.5	Promptly notify the Utility and the Own interruption to any services caused by toperations. Co-operate with the Utility promptly as possible and bear all costs interruption.	he Contractor's construction in the restoration of service as
1.2 TEMPORARY UTILITIES	1	Provide the specified temporary utilitie to execute the Work expeditiously. Ren Site upon completion of the Work unless	nove the temporary utilities from the
1.3 TEMPORARY POWER AND LIGHT	.1	Provide power for the Owner's Site offi	ce.
AND LIGHT	.2	Arrange for connection with the appropring installation, maintenance, power consumations of the control of the	
	.3	Provide and maintain sufficient tempor equipment required to carry out the Wo	
	.4	Provide and maintain adequate lighting white light for night construction. Avoi	
	.5	Where failure of the normal lighting sy provide an emergency lighting system of dependable illumination to enable the v	capable of producing sufficient
		<ul> <li>.1 leave the worksite;</li> <li>.2 initiate emergency shut-down</li> <li>.3 restore normal lighting.</li> </ul>	procedures; or

**EXISTING AND** 

Section 01 51 00

A-NMS014500++ Town of Nipawin

A-NMS015200++			
Town of Nipawin Landfill Closure Project Specification	CONSTRUCTION	ON FACILITIES	Section 01 52 00 Page 1 of 5 2024-06-21
PART 1 – GENERAL			
1.1 REFERENCES	Canadian Const	ruction Documents Committee	e (CCDC)
	.1 CCDC	4-2011, Unit Price Contract.	
	Canada Green F	Building Council (CaGBC)	
	Energy Refere (includ .2 LEED and En	nce Package For New Construing Addendum [2007]).	Green Building Rating System ction and Major Renovations  ], LEED (Leadership in Energy Building Rating System
	Canadian Gener	al Standards Board (CGSB)	
		CGSB 1.189-[00], Exterior All 1.59-[97], Alkyd Exterior Glo	
.2	Canadian Stand	ards Association (CSA Interna	ational)
	Concre Concre Concre  .2 CSA-0 .3 CAN/C Constr .4 CAN/C		est and Standard Practices for as Fir Plywood. , Access Scaffolding for
.:		nditions (SACC)-ID: R0202D	PWGSC) Standard Acquisition, Title: General Conditions 'C',
	U.S. Environme	ntal Protection Agency (EPA)	/ Office of Water
	Activit	32R92005, Storm Water Mana ies: Developing Pollution Prev ement Practices.	
1.2 ACTION AND INFORMATIONAL SUBMITTALS	Provide submitt Procedures.	als in accordance with Section	o 01 33 00 - Submittal
1.3 INSTALLATION AND REMOVAL	fenced, stockpil areas, areas othe	e locations, materials storage a	ation and number of trailers to

Identify areas which have to be graveled to prevent tracking of mud.

.2

A-NMS015200++ Town of Nipawin		CONSTRUCTION FACILITIES	Section 01 52 00
Landfill Closure Project			Page 2 of 5
Specification			2024-06-21
_			
	.3	Indicate use of supplemental or other s	staging area.
	.4	Provide construction facilities in order	to execute work expeditiously.
	.5	Remove from site all such work after	use.
1.4 SITE STORAGE/ LOADING	.1	Refer to CCDC 4.	
	.2	Confine work and operations of emplounreasonably encumber premises with	
	.3	Do not load or permit to load any part endanger Work.	of Work with weight or force that will
1.5 CONSTRUCTION PARKING	.1	Parking will be permitted on site provided work.	ided it does not disrupt performance of
	.2	Provide and maintain adequate access	to project site.
1.6 SECURITY	.1	Contractor shall implement any measu integrity of the worksite, at no addition	
1.7 OFFICES	.1	Contractor to provide office heated to ventilated, of sufficient size to accomm with drawing laydown table, as require	modate site meetings and furnished
	.2	Provide marked and fully stocked first location.	a-aid case in a readily available
	.3	Subcontractors may provide their own location of these offices.	offices as deemed necessary. Direct
	.4	Maintain office in neat and tidy condit	tion.
	.5	Engineer's Site office.	
		.1 A temporary office for Engin .2 Host onsite project meetings	eer is not required. within Contractor office as scheduled.
1.8 EQUIPMENT, TOOL AND MATERIALS STORAGE	.1	Provide and maintain, in clean and ord sheds for storage of tools, equipment a	
STORAGE	.2	Locate materials not required to be sto manner to cause least interference with	

<u>A-NMS015200++</u>				
Town of Nipawin Landfill Closure Project Specification		CONSTRUCTION FACILITIES	Section 01 52 00 Page 3 of 5 2024-06-21	
1.9 SANITARY FACILITIES	.1	Provide sanitary facilities for work force in regulations and ordinances.	accordance with governing	
	.2	Post notices and take precautions as requir Keep area and premises in sanitary conditi		
1.10 CONSTRUCTION SIGNAGE	.1		Provide and erect Contractor construction sign, within three weeks of signing Contract, in a location approved by Engineer.	
	.2	Contractor Construction sign dimensions and materials to be approved by Engineer.		
	.3	Install owner provided project sign, provid additional cost, at location designated by E		
	.4	No other signs or advertisements, other that site.	nn warning signs, are permitted on	
1.11 PROTECTION AND MAINTENANCE OF	.1	Owner will provide and upkeep access roa	ds as necessary to maintain traffic.	
TRAFFIC	.2	Advise Engineer promptly if road maintenactivities.	ance is required to maintain site	
	.3	Protect travelling public from damage to p	erson and property.	
	.4	Contractor's traffic on roads selected for ha interfere as little as possible with public tra		
	.5	Verify adequacy of existing roads and allo Contractor: responsible for repair of damage construction operations.		
	.6	Provide necessary lighting, signs, barricade safe movement of traffic.	es, and distinctive markings for	
	.7	Dust control: adequate to ensure safe opera	ation at all times.	
	.8	Provide snow removal during period of We	ork, if applicable.	
		OR		
	.1	Provide access and temporary relocated rotraffic.	ads as necessary to maintain	
	.2	Maintain and protect traffic on affected roa except as otherwise specifically directed by		
	.3	Provide measures for protection and divers of watch-persons and flag-persons, erection		

A-NMS015200++			
Town of Nipawin Landfill Closure Project Specification	(	CONSTRUCTION FACILITIES	Section 01 52 00 Page 4 of 5 2024-06-21
		around and in front of equipment and work, adequate warning, danger, and direction sig	
	.4	Protect travelling public from damage to per	rson and property.
	.5	Contractor's traffic on roads selected for har interfere as little as possible with public traffic.	
	.6	Verify adequacy of existing roads and allow Contractor: responsible for repair of damage operations.	
	.7	Construct access and haul roads necessary.	
	.8	Haul roads: constructed with suitable grades corners, and dangerous cross traffic shall be	
	.9	Provide necessary lighting, signs, barricades safe movement of traffic.	s, and distinctive markings for
	.10	Dust control: adequate to ensure safe operat	ion at all times.
	.11	Location, grade, width, and alignment of co subject to approval by the Engineer.	nstruction and hauling roads:
	.12	Lighting: to assure full and clear visibility for work areas during night work operations.	or full width of haul road and
	.13	Provide snow removal during period of Wor	rk.
	.14	Remove, upon completion of work, haul roa	nds designated by the Engineer.
1.12 CLEAN-UP	.1	Remove construction debris, waste material site daily.	s, packaging material from work
	.2	Clean dirt or mud tracked onto paved or sur	faced roadways.
	.3	Store materials resulting from demolition ac	tivities that are salvageable.
	.4	Stack stored new or salvaged material not in	construction facilities.
PART 2 – PRODUCTS			
2.1 NOT USED	.1	Not Used.	

<u>A-NMS015200++</u>			
Town of Nipawin	(	CONSTRUCTION FACILITIES	Section 01 52 00
Landfill Closure Project			Page 5 of 5
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PART 3 – EXECUTION			
3.1 NOT USED	.1	Not Used.	

A NMS014500++			
A-NMS014500++ Town of Nipawin Landfill Closure Project Specification		XISTING AND EMPORARY ROADS	Section 01 55 20 Page 1 of 2 2024-06-21
PART 1 – GENERAL	_		
1.1 REFERENCES	<b>-</b> .1	Provide traffic accommodation in accord (latest revision) except where specified of	
	.2	Saskatchewan Highways and Transporta	ation
		.1 8400 — Specification for Traff	ic Accommodation and Safety
1.2 PUBLIC HIGHWAYS AND ROADS	.1	Comply with all requirements of the roa public roads used by the Contractor in the	
	.2	Determine the condition and availability clearances, restrictions, bridge load limi limitations that may affect ingress to and	ts, bond requirements, and other
	.3	Comply with applicable load regulations equipment over public highways, roads, with local traffic.	
	.4	Keep public highways and roads impact passable at all times.	ed by the Work open to traffic and
	.5	Retain qualified personnel or organization develop a Traffic Accommodation Strate Saskatchewan Highways and Transportation authorities having jurisdiction.	egy in accordance with
	.6	Supply, install, and maintain all necessa lights, flashers, danger signals and signs protection of the Work and the safety of	s, and all other precautions for the
	.7	In addition to the requirements of the roprovide flagmen to control traffic at all loperations interfere with public highway	locations where the Contractor's
	.8	Promptly control dust and repair damage bridges caused by Contract generated tra access and use.	
	.9	Not Used.	
	.10	Not Used.	
	.11	Do not permit scrapers, rock trucks or tr existing bridges or asphalt paved roadwa	
	.12	Do not block or impede access roads or residences located near the Site.	driveways to local landowner

A-NMS014500++			
Town of Nipawin	I	EXISTING AND	Section 01 55 20
Landfill Closure Project	7	ΓEMPORARY ROADS	Page 2 of 2
Specification			2024-06-21
1.3 TEMPORARY ACCESS AND HAUL ROADS AND DETOURS	.1	Design and construct all temporary roads recoperations.	quired for construction
	.2	Provide detours required for the execution of	f the Work.
	.3	Confine construction traffic to the limits of disturbances to adjacent lands.	temporary roads and avoid
	.4	Contain hauled material in vehicles, and keer rock, and debris resulting from construction	
	.5	Control dust, remove snow, and maintain ro intervals depending upon weather or traffic	
	.6	Reclaim all haul roads when they are no lon original contours, cultivate, replace topsoil,	
1.4 SUBMITTALS	<b>-</b> .1	Provide the following submittals:	
	.2	The Traffic Accommodation Strategy at least of the Work at the Site.	st 7 days prior to commencement
	.3	Plans showing the location of temporary acc drainage structures, and bridges required for 10 days prior to commencement of the Worl	execution of the Work, at least
PART 2 – PRODUCTS	_		
2.1 NOT USED	<b>—</b> .1	Not Used.	
PART 3 – EXECUTION	<u> </u>		
3.1 NOT USED	1	Not Used.	

A-NMS016100++ Town of Nipawin	(	COMMON PRODUCT	Section 01 61 00
Landfill Closure Project Specification		REQUIREMENT	Page 1 of 4 2024-06-21
PART 1 – GENERAL	_		
1.1 RELATED REQUIREMENTS	.1	Not Used.	
1.2 REFERENCES		Canadian Construction Documents Con	nmittee (CCDC)
		.1 CCDC 4 – 2011, Unit Price C	
	.2	Within text of each specifications section reference standards.	on, reference may be made to
	.3	Conform to these reference standards in requested in specifications.	n whole or in part as specifically
	.4	If there is question as to whether produ with applicable standards, Engineer res systems tested to prove or disprove con	erves right to have such products or
	.5	Cost for such testing will be borne by Contract Documents or by Contractor i	
1.3 QUALITY	.1	Refer to CCDC 4.	
	.2	Products, materials, equipment and artinew, not damaged or defective, and of requested, furnish evidence as to type, provided.	best quality for purpose intended. If
	.3	Procurement policy is to acquire, in a containing highest percentage of recycl practicable consistent with maintaining Make reasonable efforts to use recycled otherwise utilizing recycled and recovery	ed and recovered materials satisfactory levels of competition. I and recovered materials and in
	.4	Defective products, whenever identified rejected regardless of previous inspectic responsibility but is precaution against replace defective products at own expective expenses caused by rejection.	ons. Inspection does not relieve oversight or error. Remove and
	.5	Should disputes arise as to quality or fi strictly with Engineer based upon requi	-
	.6	Unless otherwise indicated in specifica manufacture for any particular or like i	
	.7	Permanent labels, trademarks and name in prominent locations, except where re when located in mechanical or electrical	equired for operating instructions, or

A-NMS016100++				
Town of Nipawin Landfill Closure Project Specification		COMMON PRODUCT REQUIREMENT	Section 01 61 00 Page 2 of 4 2024-06-21	
Specification			2024-00-21	
1.4 AVAILABILITY	.1	Immediately upon signing Contract, review and anticipate foreseeable supply delays for products are foreseeable, notify Engineer of or other remedial action may be authorized performance of Work.	titems. If delays in supply of such in order that substitutions	
	.2	In event of failure to notify Engineer at comit subsequently appear that Work may be dereserves right to substitute more readily avaicharacter, at no increase in Contract Price of	elayed for such reason, Engineer ilable products of similar	
1.5 STORAGE, HANDLING AND PROTECTION	.1		Handle and store products in manner to prevent damage, adulteration, deterioration and soiling and in accordance with manufacturer's instructions when applicable.	
	.2	Store packaged or bundled products in original with manufacturer's seal and labels intact. Established bundling until required in Work.		
	.3	Store products subject to damage from wear	ther in weatherproof enclosures.	
	.4	Store cementitious products clear of earth o walls.	r concrete floors, and away from	
	.5	Keep sand, when used for grout or mortar n sand on wooden platforms and cover with v inclement weather.		
	.6	Store pipes, appurtenances, and fence mater keep clear of ground. Slope to shed moistur		
	.7	Remove and replace damaged products at o Engineer.	wn expense and to satisfaction of	
	.8	Touch-up damaged factory finished surface touch-up materials to match original. Do no		
1.6 TRANSPORTATION	.1	Pay costs of transportation of products requ	ired in performance of Work.	
1.7 MANUFACTURER'S INSTRUCTIONS	.1	Unless otherwise indicated in specifications accordance with manufacturer's instructions enclosures provided with products. Obtain manufacturers.	s. Do not rely on labels or	
	.2	Notify Engineer in writing, of conflicts between manufacturer's instructions, so that Engineer		

Town of Nipawin		COMMON PRODUCT	Section 01 61 00
Landfill Closure Project	]	REQUIREMENT	Page 3 of 4
Specification			2024-06-21
	.3	Improper installation or erection of p with these requirements, authorizes I installation at no increase in Contrac	Engineer to require removal and re-
1.8 QUALITY OF WORK	.1	Ensure Quality of Work is of highest experienced and skilled in respective Immediately notify Engineer if requi impractical to produce required result	e duties for which they are employed. ired Work is such as to make it
	.2		heir required duties. Engineer reserves workers deemed incompetent or careless.
	.3	Decisions as to standard or fitness of solely with Engineer, whose decision	Quality of Work in cases of dispute rest is final.
1.9 CO-ORDINATION	.1	Ensure co-operation of workers in la continuous supervision.	ying out Work. Maintain efficient and
	.2	Be responsible for coordination and accessories.	placement of openings, sleeves and
1.10 REMEDIAL WORK	.1	Refer to CCDC 4.	
	.2	Perform remedial work required to re Work identified as defective or unac Work as required.	epair or replace parts or portions of ceptable. Co-ordinate adjacent affected
	.3	Perform remedial work by specialists Perform in a manner to neither dama	s familiar with materials affected.  age nor put at risk any portion of Work.
1.11 FASTENINGS	.1	Provide metal fastenings and accessor as adjacent materials, unless indicate	ories in same texture, colour and finished otherwise.
	.2	Prevent electrolytic action between c	dissimilar metals and materials.
	.3	Use non-corrosive hot dip galvanized securing exterior work, unless stainle requested in affected specification Se	ess steel or other material is specifically
	.4		I limit or shear capacity and ensure they ge. Wood, or any other organic material
	.5	Keep exposed fastenings to a minim	um, space evenly and install neatly.
	.6	Fastenings which cause spalling or c	racking of material to which anchorage
		_ 1 5	5

A-NMS016100++			
Town of Nipawin Landfill Closure Project Specification		COMMON PRODUCT REQUIREMENT	Section 01 61 00 Page 4 of 4 2024-06-21
		is made are not acceptable.	
1.12 FASTENINGS - EQUIPMENT	.1	Use fastenings of standard commercial finish suitable for service.	al sizes and patterns with material and
	.2	Use heavy hexagon heads, semi-finish 304 stainless steel for exterior areas.	ned unless otherwise specified. Use No.
	.3	Bolts may not project more than one of	diameter beyond nuts.
	.4	Use plain type washers on equipment washers where vibrations occur. Use	, sheet metal and soft gasket lock type resilient washers with stainless steel.
1.13 EXISTING UTILITIES	.1	When breaking into or connecting to Work at times directed by local gover disturbance to Work and others.	
	.2	Protect, relocate or maintain existing encountered, cap off in manner appro Stake and record location of capped s	ved by authority having jurisdiction.
PART 2 – PRODUCTS			
2.1 NOT USED	— .1	Not Used.	
PART 3 – EXECUTION			
3.1 NOT USED	1	Not Used.	

A-NMS017123++		
Town of Nipawin Landfill Closure Project Specification	FIELD ENGINEERING	Section 01 71 23 Page 1 of 2 2024-06-21
PART 1 – GENERAL		
1.1 FIELD ENGINEER ROLE & .1 RESPONSIBILITIES	Engineer will provide within 15 days required during the Contract, a contact telephone numbers for the Engineer's	t list showing names, position and
.2	Engineer will carry out site engineering	ng duties as follows:
	other meetings held during the second contractor, for the Dra second construction of the Dra copy of proposed constructions.  A copy of proposed constructions.  Brepare Progress Payment submissions.  Carry out inspection of the Volume deemed necessary by the Engobserved deficiencies.  Receive Contractor submittation and deal with Contractor in received.	wings and technical Specifications. Treview purposes, the following: on schedules and updates  abmissions for Contractor.  Work at the Site and other locations as gineer, and issue instructions to correct  Is required with respect to the Work matters arising from submittal review. Is changes in the Work, issue the ceive the related quotations and
1.2 CONTRACTOR SITE .1	Provide site representative for supering	stendence of Work.
SUPERVISION .2	Site representative shall be authorized construction schedules and cash flow advise on changes to the Work, preparent instruction from the Engineer.	to attend meetings, submit forecasts, supervise layout of Work,
1.3 SURVEY REFERENCE POINTS AND LEGAL	Existing base horizontal and vertical of drawings.	control points are designated on
SURVEY MARKERS .2		oints and legal survey markers prior to t reference points during construction.
.3	Make no changes or relocations without Engineer.	out prior written approval from the
.4	Report to Engineer when a reference place destroyed, or requires relocation becallocations.	
.5	Employ a competent surveyor to replate original survey control.	ace control points in accordance with
.6	Require surveyor to replace legal survof construction activities.	vey markers lost or destroyed as a result
.7	Maintain a complete, accurate log of oprogresses.	control points and survey work as it

A-NMS017123++			
Town of Nipawin	F	IELD ENGINEERING	Section 01 71 23
Landfill Closure Project			Page 2 of 2
Specification			2024-06-21
1.4 EXISTING SURVEY MARKERS	.1	Replace legal survey markers, disturbed or repoperation. If it is necessary to remove or disturbankers that are within 1.5 m of the Work, no removal or disturbance and replacement will be	rb existing legal survey tify Engineer before such
1.5 SUBSURFACE CONDITIONS	.1	Promptly notify Engineer in writing if subsurf materially from those indicated in Contract De assumption of probable conditions based there	ocuments, or a reasonable
	.2	After prompt investigation, should Engineer d differ materially, instructions will be issued for in CCDC 4.	
PART 2 – PRODUCTS			
2.1 NOT USED	1	Not used.	
PART 3 – EXECUTION	_		
3.1 NOT USED	1	Not used.	

A-NMS017411++						
Town of Nipawin Landfill Closure Project Specification	CLEANING	Section 01 74 11 Page 1 of 2 2024-06-21				
PART 1 – GENERAL						
1.1 RELATED REQUIREMENTS	Canadian Construction Documents	, ,				
THE YOUR PROPERTY OF THE PROPE	.1 CCDC 4 - 2011, Unit Pric	ce Contract				
1.2 REFERENCES	Canadian Construction Documents	s Committee (CCDC)				
	.1 CCDC 4 - 2011, Unit Pric	ce Contract.				
1.3 PROJECT .1 CLEANLINESS	Maintain Work in tidy condition, fi	ree from accumulation of waste products				
.2	.2 Remove waste materials from site at daily regularly scheduled times or dispose of as directed by Engineer. Do not burn waste materials on site.					
.3	Clear snow and ice from access to Site, and from all work areas.					
.4	Make arrangements with and obtai jurisdiction for disposal of waste at					
.5	Provide on-site containers for colle	ection of waste materials and debris.				
.6	Provide and use marked separate b	ins for recycling.				
.7	Dispose of waste materials and deb	oris off site.				
.8	Store volatile waste in covered met at end of each working day.	tal containers and remove from premises				
.9	Use only cleaning materials recomcleaned, and as recommended by c	mended by manufacturer of surface to be leaning material manufacturer.				
1.4 FINAL CLEANING	Refer to CCDC 4.					
.2		rmed remove surplus products, tools, ment not required for performance of				
.3	Remove waste products and debris occupancy.	and leave Work clean and suitable for				
.4	Prior to final review remove surpluand equipment.	as products, tools, construction machinery				
.5	Remove dirt and other disfiguration	n from exterior surfaces.				
.6	Clean roofs, downspouts, and drain	nage systems.				

<u>A-NMS017411++</u>			
Town of Nipawin	$\mathbf{C}$	LEANING	Section 01 74 11
Landfill Closure Project			Page 2 of 2
Specification			2024-06-21
1.5 WASTE MANAGEMENT AND DISPOSAL PART 2 – PRODUCTS	.1	Separate waste materials for reuse and recyclin	g.
2.1 NOT USED  PART 3 – EXECUTION	1	Not Used.	
3.1 NOT USED	1	Not Used.	

Town of Nipawin		CLOSE	EOUT PROCEDURES	Section 01 77 00
Landfill Closure Project Specification				Page 1 of 2 2024-06-21
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PART 1 – GENERAL				
1.1 RELATED REQUIREMENTS	.1	Not U	Jsed.	
1.2 REFERENCES	1	Cana	dian Construction Documents Com	nmittee (CCDC)
		.1	CCDC 4 - 2011, Unit Price Co	
1.3 ADMINISTRATIVE				
REQUIREMENTS	.1	Acce	ptance of Work Procedures:	
		.2 .3 .4 .5	to Contract Documents.  a Notify Engin completion of Contract verification that correct by Request Engineer's Inspection:  a Engineer and identify defects and documents.  b Contractor to Completion Tasks: submit write have been performed as follow as Work: completion to Completion Tasks: submit write have been performed as follow as Work: completion to Completion Tasks: submit write have been performed as follow as Work: completion to Completion Tasks: submit write have been performed as follow as Work: completion to Complete submit Contract Document of Lien and Was acceptance of Substantial Performance.  Commencement of Lien and Was acceptance of submitted declar be date for commencement for of lien period unless required of Work.  Final Payment:  a When Engine defects corrected and application for final process application for final	correct Work as directed. Iten certificates in English that tasks is: leted and inspected for compliance ents. Itented and deficiencies completed. Itented and deficiencies completed. Itented and deficiencies completed. Itented and deficiencies completed. Itented and fully formance: when Engineer considers ted and requirements of Contract application for Certificate of Itented and Tented and Commencement of Substantial Performance to warranty period and commencement otherwise by lien statute of Place of the eer considers final deficiencies and requirements of Contract met, make ayment. In OC 4: when Work deemed er, complete outstanding items and
			amount in accordance with con	tractual agreement.
1.4 FINAL CLEANING	1	Clean	n in accordance with Section 01 74	11 - Cleaning.

A-NMS017700++ Town of Nipawin Landfill Closure Project Specification	CLOSE	OUT PROCEDURES	Section 01 77 00 Page 2 of 2 2024-06-21
	.1	Remove surplus materials, excequipment.	cess materials, rubbish, tools and
PART 2 – PRODUCTS			
<u>2.1 NOT USED</u>	Not U	sed.	
PART 3 – EXECUTION			
<u>3.1 NOT USED</u>	Not U	sed.	

<u>A-NMS013543++</u>						
Town of Nipawin Landfill Closure Project Specification		CARE OF WATER	Section 02 01 40 Page 1 of 2 2024-06-21			
PART 1 – GENERAL	_					
1.1 SITE CONDITIONS	<b>-</b> .1	Be aware that the project area is located in a intense heat are prevalent.	n area where strong winds and			
PART 2 – PRODUCTS	_					
2.1 EQUIPMENT AND MATERIALS	.1	Provide all pumps, hoses, and related equipr for care of water.	ment and power sources required			
	.2	Maintain pumps in good operating condition at all times. Have at the S all times at least one standby pump for each category of pump required for care of water.				
	.3	Install a replacement pump or pumps of equal capacity before removing a pump or pumps for maintenance.				
PART 3 – EXECUTION	_					
3.1 GENERAL	1	Design, construct and maintain Temporary V Permanent Work, as required for care of war cofferdams, channels, flumes, drains, sandpot temporary diversion and protective works at therefor. Furnish, install, maintain and opera other equipment, for dewatering the various maintaining the foundation and other parts of snow from whatever source.	ter, including all necessary oints, wells and sumps and other and furnish all materials required ate all necessary pumping and parts of the work and for			
	.2	Maintain all sumps, trenches, and discharge containment and free flow of water to and free diversion and protective works at all times.				
	.3	Obtain any permits required.				
	.4	Ensure that care of water procedures do not the landfill.	interfere with the operation of			
	.5	Repair damage to any part of the work cause protective works at no extra cost to the Own				
	.6	Be responsible for additional excavation and necessary by water, snow, or ice.	l subsequent backfill made			
	.7	Ensure procedures for "Care of Water" do n Locate and control discharges of water to av pollution of water courses, nuisance on road wildlife.	roid causing damage to property,			

A-NMS013543++ Town of Nipawin Landfill Closure Project Specification	,	CARE OF WATER	Section 02 01 40 Page 2 of 2 2024-06-21			
Specification			2021 00 21			
	.8	<ul> <li>.8 Make provisions for handling residual water, storm runoff and snowmelt the may enter the landfill or excavations from time to time.</li> <li>.9 Make arrangements with landowners and agencies that may be affected by disposal of water, snow, and ice.</li> </ul>				
	.9					
	.10	Remove and dispose of all water, snow and ice from the landfill work areas				
3.2 CONSTRUCTION ACCESS CROSSING	.1	Provide construction access crossings.				
	.2	Design crossings to accommodate the conon-irrigation season.	lrainage of runoff water during the			
	.3	Design crossings to accommodate the f backwater in the canal if the crossing is season.				
	.4	Design crossings for the maximum load used.	d of the construction equipment to be			
	.5	Do not use existing on Site, public and for construction equipment.	private, bridges and culvert crossings			
		END OF SECTION				

<u>A-NMS311100++</u>				
Town of Nipawin Landfill Closure Project Specification		CLEARING AND G	RUBBING	Section 31 11 00 Page 1 of 5 2024-06-21
PART 1 – GENERAL				
1.1 RELATED REQUIREMENTS	.1	Section 01 33 00 - Su	ubmittal Procedures.	
	.2	Section 01 35 29.06 -	Health and Safety Re	quirements.
	.3	Section 01 74 11 - Cl	eaning.	
1.2 MEASUREMENT FOR PAYMENT	.1	elsewhere and is deer	med included in the pri Therefore no separate	ered incidental to work described ices provided by the Contractor in payment to be made for work
1.3 REFERENCES	<del></del> .1	U.S. Environmental I	Protection Agency (EP	A)/Office of Water
		.1 EPA 832R9	2005, Storm Water Ma Developing Pollution P	anagement for Construction revention Plans and Best
1.4 DEFINITIONS		Clearing consists of cutting off trees and brush vegetative growth to not more than specified height above ground and disposing of felled trees, previously uprooted trees and stumps, and surface debris.		
	.2	stumps and embedde		anding trees, brush, scrub, roots, close to, existing grade and s.
	.3			ff to not more than specified d disposing of felled trees and
	.4		smaller than 50 mm to	om treed areas of undergrowth, runk diameter] and disposing of
	.5		f specified size] to not	al of stumps and roots [boulders less than specified depth below
1.5 ACTION AND INFORMATIONAL SUBMITTALS	.1	Provide submittals in Procedures.	accordance with Secti	ion 01 33 00 - Submittal
<del></del>	2	Samples:		
			paint: one liter can wi one liter can with manu	th manufacturer's label. ifacturer's label.
	.3	Submit certificates si	gned by manufacturer	certifying that materials comply

<u>A-NMS311100++</u>			
Town of Nipawin Landfill Closure Project Specification		CLEARING AND GRUBBING	Section 31 11 00 Page 2 of 5 2024-06-21
		with specified performance characteristics a	nd physical properties.
	.4	Submit manufacturer's installation instruction	ons.
1.6 QUALITY ASSURANCE	.1	Do construction occupational health and saf 01 35 29.06 - Health and Safety Requirement	
	.2	Safety Requirements: worker protection.	
		<ol> <li>Workers must wear gloves, respira protection, and protective clothing materials.</li> <li>Workers must not eat, drink or smomaterial.</li> <li>Clean up spills of preservative mat absorbent material and safely disca</li> </ol>	when applying herbicide  bke while applying herbicide  erials immediately with
1.7 CTOD A CE AND		·	
1.7 STORAGE AND PROTECTION	.1 —	Prevent damage to fencing, trees, landscapin existing buildings, existing pavement, utility courses, root systems of trees which are to r	lines, site appurtenances, water
		<ul> <li>.1 Repair damaged items to approval</li> <li>.2 Replace trees designated to remain Engineer.</li> </ul>	
1.8 WASTE MANAGEMENT AND DISPOSAL	.1	Separate waste materials for reuse and recyc	cling as directed by Engineer.
PART 2 – PRODUCTS	_		
2.1 MATERIALS	1	Bituminous based paint of standard manufactree wounds.	cture specially formulated for
	.2	Herbicide: effective for killing annual and p grass, by being absorbed through roots and	
		.1 Spray applied on non-crop land are	eas.
	.3	Soil Material for Fill:	
		<ul><li>.1 Excavated soil material: free of del vegetable matter, refuse, soft unsor objectionable materials.</li><li>.2 Remove and store soil material for</li></ul>	and particles, deleterious, or
PART 3 – EXECUTION			
3.1 TEMPORARY EROSION AND SEDIMENTATION	.1	Provide temporary erosion and sedimentation soil erosion and discharge of soil-bearing w	

A-NMS311100++		CLEADING AND CRUDDING	0 4 21 11 00				
Town of Nipawin Landfill Closure Project Specification		CLEARING AND GRUBBING	Section 31 11 00 Page 3 of 5 2024-06-21				
CONTROL	_	adjacent properties and walkways, according having jurisdiction.	ng to requirements of authorities				
	.2		Inspect, repair, and maintain erosion and sedimentation control measures during construction until permanent vegetation has been established.				
	.3	Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.					
3.2 PREPARATION	1	Inspect site and verify with Engineer, items	s designated to remain.				
	.2	Locate and protect utility lines: preserve in utilities traversing site.	Locate and protect utility lines: preserve in operating condition active utilities traversing site.				
		<ul> <li>Notify Engineer immediately of damage to or when unknown existing utility lines are encountered.</li> <li>When utility lines which are to be removed are encountered within area of operations, notify Engineer in ample time to minimize interruption of service.</li> </ul>					
	.3	Notify utility authorities before starting clear	aring and grubbing.				
	.4	Keep roads and walks free of dirt and debri	is.				
3.3 APPLICATION	1	Manufacturer's instructions: comply with n recommendations or specifications, includi handling, storage and installation instruction	ng product technical bulletins,				
3.4 CLEARING	1	Clearing includes felling, trimming, and cutting of trees into sections ar satisfactory disposal of trees and other vegetation designated for removincluding downed timber, and rubbish occurring within cleared areas.					
	.2	Clear as directed by Engineer, by cutting at above ground. In areas to be subsequently a from clearing operations to be not more that surface.	grubbed, height of stumps left				
	.3	Cut off branches and cut down trees overhatengineer.	anging area cleared as directed by				
	.4	Cut off unsound branches on trees designat Engineer.	ed to remain as directed by				
	.5	Apply herbicide in accordance with manufastumps designated not to be removed.	acturer's label to top surface of				
3.5 CLOSE CUT CLEARING	1	Close cut clearing to within 100 mm of gro	und surface.				
	.2	Cut off branches down trees overhanging a	rea cleared as directed by the				

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Town of Nipawin Landfill Closure Project Specification		CLEARING AND GRUBBING	Section 31 11 00 Page 4 of 5 2024-06-21
		Engineer.	
	.3	Cut off unsound branches on trees designating Engineer.	ated to remain as directed by
3.6 ISOLATED TREES	1	Cut off isolated trees as directed by Engin mm above ground surface.	eer at height of not more than 300
	.2	Grub out isolated tree stumps.	
	.3	Prune individual trees as indicated.	
	.4	Trim trees designated to be left standing w branches [4] cm or more in diameter; and indicated.	
	.5	Cut limbs and branches to be trimmed clo	se to bole of tree or main branches
	.6	Paint cuts more than 3 cm in diameter with	h approved tree wound paint.
3.7 UNDERBRUSH CLEARING	.1	Clear underbrush from areas as indicated.	
3.8 GRUBBING	1	Remove and dispose of roots larger than 7 and designated stumps from indicated gru	
	.2	Grub out stumps and roots to not less than	200 mm below ground surface.
	.3	Grub out visible rock fragments and bould greatest dimension, but less than 0.25 m3.	
	.4	Fill depressions made by grubbing with su surface conform with existing adjacent sur	
3.9 REMOVAL AND DISPOSAL	.1	Remove cleared and grubbed materials to Engineer.	disposal area as indicated by
	.2	Cut timber greater than 125 mm diameter as indicated. Stockpiled timber becomes p	•
	.3	Burning of cleared and grubbed material i	s not allowed.
	.4	Bury to approval of Engineer by:	
		<ul><li>.1 Consolidating.</li><li>.2 Covering with minimum [500] m</li><li>.3 Finishing surface.</li></ul>	nm of mineral soil.
	.5	Chip or mulch and stockpile spread cleare	d and grubbed vegetative material

<u>A-NMS311100++</u>			
Town of Nipawin	(	CLEARING AND GRUBBING	Section 31 11 00
Landfill Closure Project			Page 5 of 5
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		on site as directed by Engineer.	
	.6	Remove diseased trees identified by Engineer approval of Engineer.	r and dispose of this material to
3.10 FINISHED SURFACE	.1	Leave ground surface in condition suitable fo approval of Engineer.	or stripping of topsoil to
3.11 CLEANING	1	Proceed in accordance with Section 01 74 11	- Cleaning.
	.2	On completion and verification of performand surplus materials, excess materials, rubbish, t	

Town of Nipawin Landfill Closure Project Specification		SOIL STRIPPING AND STOCKPILING	Section 31 14 13 Page 1 of 3 2024-06-21
PART 1 – GENERAL	<u> </u>		
1.1 RELATED REQUIREMENTS	.1	Section 01 74 11 – Cleaning.	
1.2 REFERENCES	1	U.S. Environmental Protection Agenc	y (EPA)/Office of Water
		.1 EPA 832R92005, Storm Wat	ter Management for Construction tion Prevention Plans and Best
1.3 MEASUREMENT FOR PAYMENT	.1		onsidered incidental to work described the prices provided by the Contractor in the parate payment to be made for work
PART 2 – PRODUCTS	<u> </u>		
2.1 NOT USED	1	Not Used.	
PART 3 – EXECUTION	_		
3.1 TEMPORARY EROSION AND SEDIMENTATION CONTROL	.1	Provide temporary erosion and sedime soil erosion and discharge of soil-bear adjacent properties and walkways, acc having jurisdiction.	ring water runoff or airborne dust to
	.2	Inspect, repair, and maintain erosion a during construction until permanent v	
	.3	Remove erosion and sedimentation codisturbed during removal.	entrols and restore and stabilize areas
3.2 STRIPPING OF TOPSOIL	.1	Ensure that procedures are conducted Provincial and Municipal requirement	
	.2	Remove topsoil before construction procession of topsoil.	rocedures commence to avoid
	.3	Handle topsoil only when it is dry and	l warm.
	.4	Remove vegetation from targeted area of stripped vegetation by composting.	as by non-chemical means and dispose
	.5	Remove brush from targeted area by r mulching.	non-chemical means and dispose of

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	.6	Strip topsoil to depths as directed by Eng	gineer.	
	.7	Avoid mixing topsoil with subsoil.		
	.8	Pile topsoil in berms in locations as direct	cted by Engineer.	
	.9	Stockpile height not to exceed 3 m.		
	.10	Dispose of unused topsoil in location as	indicated by Engineer.	
	.11	Protect stockpiles from contamination and	nd compaction.	
	.12	Cover topsoil that has been piled for lon to maintain agricultural potential of soil.		
3.3 STOCKPILES	1	Unless otherwise designated in the Cont material adjacent to borrow areas, waste Choose stockpile locations such that the construction.	areas or along the road right of way	
	.2	Stockpile topsoil separately from other r	naterials.	
	.3	Maintain a minimum separation of 1 m l	petween stockpiles.	
	.4	Stockpile frozen material stripped from materials.	borrow areas separately from other	
	.5	Adopt measures to prevent drifting of to	psoil.	
	.6	Keep drainage courses clear of stockpile	d material.	
	.7	Stockpile material at slopes lower than 2	eH: I V.	
3.4 PREPARATION OF GRADE	.1	Verify that grades are correct and notify not begin work until instructed by Engin		
		.1 Grade area only when soil is dr .2 Grade soil establishing natural areas and low spots, ensuring p	contours and eliminating uneven	
3.5 PLACING OF TOPSOIL	.1	Place topsoil only after Engineer has acc	cepted subgrade.	
	.2	Spread topsoil during dry conditions in u 150 mm, over unfrozen subgrade free of		
	.3	Establish traffic patterns for equipment that been spread to avoid compaction.	to prevent driving on topsoil after it	
	.4	Cultivate soil following spreading proce	dures.	

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Town of Nipawin		SOIL STRIPPING AND	Section 31 14 13
Landfill Closure Project	STOCKPILING		Page 3 of 3
Specification			2024-06-21
3.6 SUB-SOILING	1	Not Used.	
3.7 CLEANING	1	Proceed in accordance with Section 0	1 74 11 - Cleaning.
			<i>6</i> .
	.2	On completion and verification of per surplus materials, excess materials, ru	

A-NMS312213++			
Town of Nipawin Landfill Closure Project Specification	]	ROUGH GRADING	Section 31 22 13 Page 1 of 3 2024-06-21
PART 1 – GENERAL	_		
1.1 RELATED REQUIREMENTS	.1	Section 01 33 00 - Submittal Procedures	
	.2	Section 31 23 33.01 - Excavating, Trenc	hing and Backfilling.
	.3	Section 01 45 00 – Quality Control	
	.4	Section 01 74 11 - Cleaning.	
1.2 REFERENCES	1	ASTM International	
		.1 ASTM D 698-[07e1], Test Met Characteristics of Soil Using St	hod for Laboratory Compaction andard Effort (600 kN-m/m;).
	.2	Canada Green Building Council (CaGBC	C)
	.3	for New Construction and Major Addendum [2007]).  2 LEED Canada-NC-[2009], LEE Environmental Design): Green Construction and Major Renova  3 LEED Canada-CI Version 1.0-[ and Environmental Design): Green Commercial Interiors.  4 LEED Canada-EB: O&M-[2009]	ign): Green Building Rating System or Renovations (including ED (Leadership in Energy and Building Rating System for New ations 2009. [2007], LEED (Leadership in Energy een Building Rating System for Poly, LEED (Leadership in Energy and Building Rating System for Existing intenance 2009.
1.3 ACTION AND INFORMATIONAL SUBMITTALS	.1	Submit in accordance with Section 01 33	3 00 - Submittal Procedures.
1.4 EXISTING	.1	Examine subsurface investigation report	which is available for inspection at
CONDITIONS	_	[].	•
	.2	Known underground and surface utility lindicated on site plan.	lines and buried objects are as
	.3	Refer to dewatering in Section 31 23 33. Backfilling.	01 - Excavating, Trenching and
1.5 PROTECTION	1	Protect and/or transplant existing fencing features, bench marks, buildings, pavemlines which are to remain as directed by original or better condition unless directed	ent, surface or underground utility Engineer. If damaged, restore to

A-NMS312213++			
Town of Nipawin Landfill Closure Project Specification		ROUGH GRADING	Section 31 22 13 Page 2 of 3 2024-06-21
	.2	Maintain access roads to prevent accun on roads.	nulation of construction related debris
PART 2 – PRODUCTS			
2.1 MATERIALS	1	Fill material: Type in accordance with a Trenching and Backfilling.	of Section 31 23 33.01 - Excavating,
	.2	Excavated or graded material existing of grading work if approved by Engineer.	on site suitable to use as fill for
PART 3 – EXECUTION			
3.1 STRIPPING OF TOPSOIL	.1	Do not handle topsoil while in wet or for which soil structure is adversely affected	
	.2	Commence topsoil stripping of areas as been cleared of brush, weeds and grass	
	.3	Strip topsoil to depths as directed by Ensubsoil.	ngineer. Avoid mixing topsoil with
	.4	Stockpile in locations as directed by Er 2 m.	ngineer. Stockpile height not to exceed
	.5	Dispose of unused topsoil as directed b	y Engineer.
3.2 GRADING	1	Rough grade to levels, profiles, and con as indicated.	ntours allowing for surface treatment
	.2	Slope rough grade away from buildings	s as directed (offers more choice).
	.3	Grade ditches to depth as directed.	
	.4	Prior to placing fill over existing groun minimum before placing fill over existi surface at approximately same moisture	ing ground. Maintain fill and existing
	.5	Compact filled and disturbed areas to n ASTM D 698, as follows:	naximum dry density to
		.1 [85]% under landscaped areas .2 [95]% under paved and walk a	
	.6	Do not disturb soil within branch sprea	d of trees or shrubs to remain.
3.3 TESTING	1	Inspection and testing of soil compaction laboratory designated by Engineer. Cos	

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Town of Nipawin	I	ROUGH GRAI	DING	Section 31 22 13
Landfill Closure Project				Page 3 of 3
Specification				2024-06-21
		Refer to Section	n 01 45 00 – Quality Con	ntrol.
	.2	Submit testing	procedure, frequency of t	tests to Engineer for review.
3.4 SURPLUS MATERIAL	1		s material and material u directed by Engineer.	nsuitable for fill, grading or
3.5 CLEANING	1	Progress Clean	ing: clean in accordance	with Section 01 74 11 - Cleaning.
		.1 Leave	Work area clean at end of	of each day.
	.2	_	upon completion remov in accordance with Section	e surplus materials, rubbish, tools on 01 74 11 - Cleaning.
	.3	Waste Managerappropriate.	ment: separate waste mat	erials for reuse and recycling when
			ve recycling containers at als at appropriate facility	nd bins from site and dispose of

A-NMS31233301		
Town of Nipawin Landfill Closure Project Specification	EARTHWORK AND GRANULAR MATERIAL TESTING	Sect 31 23 33.01 Page 1 of 1 2024-06-21
PART 1 – GENERAL		
1.1 DESCRIPTION1	Read this Section in conjunction with other s for Earthwork and Granular Material Testing	
.2	Read this Section in conjunction with require CCDC 4.	ements for testing specified in
1.2 DETAILED .1 DRAWINGS	Not Used.	
<u>1.3 TESTING</u> 1	Contractor is responsible for performance tes Work.	ting in performance of the
.2	The Owner's representative will perform quarelated functions.	lity assurance testing and
.3	The Owner's representative will perform quato the testing standards listed in Reference Downer.	
.4	Provide samples requested by Owner's repres	sentative for testing.
PART 2 – PRODUCTS		
2.1 NOT USED	Not Used.	
PART 3 – EXECUTION		
3.1 FILL MATERIAL TESTING .1	Fill materials may be tested, before and after with specified requirements and to confirm so	
.2	Acceptance of fill material will be made only dumped, spread, and compacted in place. O the borrow areas, in the stockpiles, in the trar Cooperate with the Owner to ensure only acceplaced in the Work.	wner may reject fill material in asporting vehicle or in place.
3.2 COMPACTION AND .1 MOISTURE CONTENT TESTING	Compaction and moisture content testing wil material placement operations to ensure that	
.2	The frequency of compaction and moisture of determined by the Owner.	ontent testing will be

A-NMS312213++			
Town of Nipawin Landfill Closure Project Specification		EXCAVATION, TRENCHING, AND BACKFILLING	Section 31 22 13 Page 1 of 7 2024-06-21
PART1 – GENERAL			
1.1 DESCRIPTION	.1	This Section specifies requirement for excaporation of pipelines and appurtenant	
1.2 RELATED REQUIREMENTS	.1	Section 01 35 29:06 - Health and Safety Ro	equirements.
1.3 DEFINITIONS	.1 Common excavation is defined as the excavation of all material rock, and shall include over-burden over rock, hard pan, quicks: frozen earth and boulders up to a size of 1.0 cubic metres.		ock, hard pan, quicksand and
	.2	Boulder excavation is defined as boulders, excluding previously blasted rock in exces removed with a power operated excavator.	s of 1.0 cubic metres which can be
1.4 SAFETY REQUIREMENTS	.1	Adhere to municipal and provincial requirements relating to safety of trenching work.	
	.2	Adhere to municipal, provincial and nation required.	al codes when blasting is
	.3	Traffic accommodation will be the response construction. The contractor shall submit, traffic management plan prior to starting an	for approval by the Engineer, a
1.5 PROTECTION	.1	Existing Buried Utilities:	
		<ol> <li>Prior to commencing any excavat authorities, establish location and Clearly mark such locations to pre</li> <li>Maintain and protect from damag utilities encountered.</li> <li>Obtain direction of owner of utilit otherwise disturbing utility.</li> </ol>	state of use of buried services. event disturbance during work. e, water, sewer, electric and other
	.2	Existing Surface Features:	
		.1 Protect existing buildings, culvert fencing, service poles, wires locat adjoining properties from damage repair damage.	ed within right-of-way or
	.3	Shoring and Bracing:	

.1

Whenever shoring, sheeting, timbering and bracing of excavations is required engage services of a professional engineer to design and assume responsibility for adequacy of shoring and bracing.

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Town of Nipawin	EXCAVATION, TRENCHING,	Section 31 22 13
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- Professional engineer to be registered in province or territory in which work is to be carried out.
- .2 When requested by Engineer, submit for review drawings and calculations signed and stamped by professional engineer responsible for their preparation.
- .3 Close sheeting, when required, to be designed and constructed to prevent adjacent soil or water from entering excavation.
- .4 Maintain unobstructed access to fire and police appurtenances, telephone, electric, water, sewer, gas or other public utilities and private properties.
- .5 Protect open excavation against flooding and damage from surface water run-off.

#### 1.6 SITE CONDITIONS

The Tenderer must examine the site of the Work before submitting his Tender, either personally or through a representative and satisfy himself as to the nature and location of the Work, local conditions, soils structure and topography at the site of the Work, the nature and quality of the materials to be used, the equipment and facilities needed preliminary to, and during, the prosecution of the Work, the means of access to the site, on-site accommodation, all necessary information as to risks, contingencies and circumstances as may affect his Tender, and all other matters which can, in any way, affect the Work under the Contract. The Tenderer is fully responsible for obtaining all information required for the preparation of his Tender and for the execution of the Work.

The Tenderer is not entitled to rely on any data or information included in the Tender Documents as to site or sub-surface conditions or test results indicating the suitability or quantity or otherwise off-site or subsurface materials for backfilling or other uses in carrying out the construction of the Work. If the Tenderer requires additional time to conduct his own investigations or is of the opinion either that the site or subsurface conditions or that site or subsurface materials differ materially from that indicated by data or information included in the Tender Documents, he shall promptly request such additional time or notify the Engineer in writing of this opinion before the time of Tender submission. The Engineer will either request the Owner to extend the time for submission of Tenders or enable Tenderers to carry out further investigation or issue an addendum modifying the Tender Documents or both as the circumstances may permit.

# 1.7 MEASUREMENT AND PAYMENT

.1

Work performed to this section will be in conjunction with work involved in other sections with the exception of the following:

.1 Common Excavation: Payment for common excavation will be included in the unit price tendered per metre of pipe(s) being installed. The cost shall include excavation, hauling, stockpiling topsoil, dewatering, backfilling, placing and compaction of bedding material, disposal of excess excavation material, re-gravelling of roadways and driveways disturbed by construction, disposal of all rocks not allowed as backfill and replacement with suitable backfill,

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Town of Nipawin	EXCAVATION, TRENCHING,	Section 31 22 13
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and all other work required for which separate payment is not indicated in the tender form.

.2 Unstable Subgrade: Where the subgrade of the trench is unstable or will not properly support the pipe, or where it contains material harmful to the pipe such as ashes, cinders, refuse, vegetable or organic material, the Contractor shall excavate such material to the width, depth and length, authorized in writing by the Engineer, and dispose of the material at a suitable disposal location. The subgrade shall then be made by backfilling with bedding stone and compacting in 150 mm layers. The finished subgrade surface shall be shaped to provide a uniform and continuous support for the pipe. Unstable or otherwise unsuitable ground excavated from the bottom of the trench, will be measured in cubic metres calculated from the length, width and depth authorized for removal. Payment will be at the Unit Price tendered including excavation and hauling, backfilling with bedding stone, and compaction of all bedding material used.

#### PART 2 – PRODUCTS

#### 2.1 MATERIALS

#### Granular Backfill:

.1 Clean, hard, durable uncoated particles, free from clay lumps, cementation, organic and other objectionable material, meeting following gradation limits:

Sieve	% Passing
50 mm	100
31.5 mm	60-100
16 mm	40-90
4.75 mm	25-60
2.0 mm	25-50
0.425 mm	10-25
0.075 mm	0-10

#### .2 Common Backfill:

- .1 Approved material selected from trench excavation or other source, unfrozen and free cinders, ashes, sods, refuse, or other deleterious materials
- .2 The maximum size of boulders permitted in backfill will be 0.2 m3 or of 300 mm average diameter.

#### .3 Bedding Sand:

.1 Natural sand or crushed rock screenings to following gradation requirements:

Sieve	% Passing
9.50 mm	100
4.75 mm	50-100
2.00 mm	30-90
0.425 mm	10-50
0.075 mm	0-10

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		2	I ::: 4 I ::: 4. A STM D 402 (C)	1072) (A A CLITO TOO (O)
		.2	Liquid Limit: ASTM D423-66 ( Maximum 25.	1972) (AASHTO 189-08),
	.3 Plasticity Index: ASTM C424-59 Maximum 6.		9 (1971) (AASHTO T90-70),	
	.4	Beddi	ng Stone:	
	.4			
	.4	Beddi	Maximum compressive strength	
	.4		Maximum compressive strength Sieve	% Passing
	.4		Maximum compressive strength Sieve 63.00 mm	% Passing 100
	.4		Maximum compressive strength Sieve 63.00 mm 37.5 mm	% Passing 100 85-100
	.4		Maximum compressive strength Sieve 63.00 mm 37.5 mm 25.0 mm	% Passing 100 85-100 75-90
	.4		Maximum compressive strength Sieve 63.00 mm 37.5 mm 25.0 mm 19.00 mm	% Passing 100 85-100 75-90 50-50
	.4		Maximum compressive strength Sieve 63.00 mm 37.5 mm 25.0 mm	% Passing 100 85-100 75-90

resistant.

## .6 Pit Locations:

.1

.1

.1 The Contractor shall be responsible for locating, organizing approvals for haul roads, screening or crushing to meet specified gradations, loading, hauling and all other associated work for the specific trenching, backfilling and compaction material requirements.

Concrete required for cradles, encasement, supports, reaction blocking to CAN A23.1-M90 and shall be 25 MPa sulphate

## PART 3 – EXECUTION

## 3.1 SITE PREPARATION

Remove trees, shrubs, vegetation, fences and other obstructions, ice and snow, from surfaces to be excavated within limits indicated.

.2 Strip topsoil from within limits of excavation and stockpile as directed.

#### 3.2 DEWATERING

Trenches must be maintained in a dry condition for pipe laying. Methods of dewatering are the responsibility of the Contractor.

.2 Dispose of water in a manner not detrimental to public health, environment, public and private property, or any portion of work completed or under construction.

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Town of Nipawin Landfill Closure Project Specification		EXCAVATION, TRENCHING, AND BACKFILLING	Section 31 22 13 Page 5 of 7 2024-06-21				
3.3 EXCAVATION	1	Excavate to lines, grades, elevations and d or as required by Engineer.	imensions indicated on drawings				
	.2	Notify Engineer when soil at proposed ele unsuitable for foundation of installation.	Notify Engineer when soil at proposed elevation of trench bottom appears unsuitable for foundation of installation.				
	.3	Remove unsuitable material from trench b by Engineer.	Remove unsuitable material from trench bottom to extent and depth required by Engineer.				
	.4	The finished subgrade surface shall be sha continuous support for the pipe.	ped to provide a uniform and				
	.5	The trench bottom shall then be made by be compacted in 150 mm layers, to 400 mm a					
	.6	Unless otherwise authorized by Engineer in writing, do not excavate more than 30 m of trench in advance of installation operations and do not leave open more than 10 m of trench at end of day's operation.					
	.7	Stockpile suitable excavated materials required for trench backfill in approved location.					
	.8	Dispose of surplus and unsuitable excavate disposal site location.	ed material in an approved				
	.9	Do not obstruct flow of surface drainage o	r natural water courses.				
	.10	Sufficient clear space must be left on one state the construction survey stakes.	side of the trench to accommodate				
3.4 TRENCH BOTTOM PREPARATION	.1	Where required due to removal of unsuital excavation, bring bottom of excavation to backfill.					
	.2	The cost of any granular backfill required excavation shall be borne by the Contractor					
	.3	Compact trench bottom to density at least surrounding soil.	equal to density of adjacent				
	.4	Protect fill materials from contamination.					
3.5 PRE-INSTALLATION INSPECTION	.1	Excavations may require inspection and apinstallation operations.	oproval prior to commencement of				

- .3 Backfilling around installations:
  - .1 Do not backfill around or over cast-in-place concrete within 24 hours after placing.
  - .2 Place layers simultaneously on sides of installed work to equalize loading.
  - .3 Place material by hand under, around and over installations until 300 mm of bedding sand above pipe crown is provided. Dumping material directly on installations will not be permitted.
  - .4 Class III Backfill
    - a After the bedding sand has been placed as described above, the common backfill material shall be pushed down a ramp or slope of existing backfill and not directly over the newly bedded pipe. The trench shall be compacted to the surface in lifts of 300 mm maximum depth. The minimum compacted effort required shall be that to obtain in-situ density of the adjacent soil type. The backfill shall not be placed at less than 92% Standard Proctor at the optimum moisture content.
  - .5 Class II Backfill
    - .a Once the bedding sand has been placed as shown above, approved common backfill material shall be placed in 300 mm lifts over the whole width of the trench. Each lift shall be compacted to 95% of Standard Proctor Density, using mechanical compaction equipment. This backfill may contain coarse materials but shall be free from brush or other objectionable material that would prevent proper consolidation or that might cause subsequent settlement. Rocks or stones not exceeding 11.3 kilograms in weight may be placed in this portion of the backfill but must be placed by hand.
- .4 Do not place backfill in freezing weather without written permission of Engineer.
- .5 Shoring, sheeting, and bracing:

..1

3.7 TRENCH SUBSIDENCE

- .1 Unless otherwise shown on drawings, or directed by Engineer, remove sheeting and shoring from trench during backfilling operations.
- .2 Do not remove bracing until backfilling has reached level of bracing.

The Contractor shall be responsible for all trench settlement for a period of one year from time of substantial completion.

.2 Contractor shall bear the costs for repairs of subsidence to the satisfaction of the Engineer.

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Town of Nipawin	EXCAVATION, TRENCHING,	Section 31 22 13
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3.8 ACCESS TO PROPERTIES AND STREET MAINTENANCE .1	Until the date of substantial completion, the responsible for street maintenance and according to the completion of the complete	
.2	Such maintenance and access to properties drainage, temporary gravel streets, street le providing towing services	
3.9 CLEANUP1	The Contractor shall be required to restore by his operation to conditions prior to con- Engineer.	
.2	The Contractor shall provide a schedule to the construction program will be undertake the Engineer and the Owner so they are as maintained.	en. This shall meet the approval of

A-NMS312213++ Town of Nipawin		SUBGRADE PREPARATION	Section 31 27 00
Landfill Closure Project			Page 1 of 2
Specification Specification			2024-06-21
DADT 1 CENEDAL			
PART 1 – GENERAL	_		
1.1 INTENT	.1	Read this Section in conjunction with other	Sections for location and
		requirement of Subgrade Preparation specif	
1.2 DETAILED DRAWINGS	1	Not Used.	
1.3 MEASUREMENT AND PAYMENT	.1	Payment for Subgrade Preparation will be a shown in the Bid Form based upon measure	
	.2	This price will include all cost in connection placement and all work incidental thereto.	n with labour, materials,
PART 2 – PRODUCTS	_		
2.1 NOT USED	1	Not Used.	
PART 3 – EXECUTION	_		
3.1 SUBGRADE	.1	The subgrade shall be scarified to a depth o	f 150 mm and compacted to a
PERPARATION	-	minimum of 98% standard Proctor maximu optimum moisture content as determined by width of the cross-section. The material sha uniformity as possible. Shape and roll alternand uniformly compacted sub-grade.	m dry density at +/- 2 % of the ASTM D698, over the full ll be worked to ensure as much
	.2	When the moisture content in the subgrade specified, water shall be added and mixed vuniform moisture content in the material to	vith the material to achieve
	.3	When the moisture content in the subgrade specified, the material shall dry by scarifyir achieve uniform moisture content in the ma requirements.	ng, disking and harrowing to
	.4	Remove and dispose of unsuitable materials representative. Replace with an approved suspecified herein.	
	.5	The Contractor shall maintain the subgrade and condition required. The Contractor shall interim drainage to prevent damage to the v conditions due to high moisture contents. N for these items.	ll be responsible for providing work or the causing of unstable

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Town of Nipawin		SUBGRADE PREPARATION	Section 31 27 00
Landfill Closure Project			Page 2 of 2
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	.6	The subgrade shall pass density and pro placement of filter fabric and/or granula	
3.2 TOLERANCES	1	Shape and compact subgrade to the requirements $\pm 10 \text{ mm}$ of design elevations but maintain surface drainage as required to	t not uniformly high or low and

<u>A-NMS312213++</u>			
Town of Nipawin Landfill Closure Project Specification		GEOSYNTHETIC CLAY LINER	Section 31 27 10 Page 1 of 2 2024-06-21
PART 1 – GENERAL			
1.1 RELATED REQUIREMENTS	.1	Section 311413 Soil Stripping and Stockpili	ng
	.2	Section 312320 Earthwork and Granular Ma	nterial Testing
	.3	Section 312700 Subgrade Preparation	
1.2 MEASUREMENT AND PAYMENT	.1	Payment for Geosynthetic Clay Liner will b metre as shown in the Bid Form based upon Engineer of the horizontal surface area cove	measurements taken by the
	.2	This price will include all cost in connection placement, and all work incidental thereto.	with labour, materials,
1.3 STORAGE AND HANDLING REQUIREMENTS	.1	Store materials in accordance with manufac	turer's recommendations.
HANDLING REQUIREMENTS	.2	Store and protect from damage.	
	.3	Replace defective or damaged materials with	h new.
PART 2 – PRODUCTS			
2.1 PRODUCTS	.1	The GCL should consist of two layers of ge- geomembrane top layer, and non-woven geo- sandwiching a layer of sodium bentonite.	
	.2	Typical properties of the GCL include:	
		.1 Tensile Strength of finished GCL s average roll value),	
		<ul> <li>.2 Maximum Hydraulic Conductivity 4x10<sup>-12</sup>cm/s.</li> <li>.3 Internal Shear Strength of Finished</li> </ul>	
	.3	All GCL products should be approved by th	
PART 3 – EXECUTION			
3.1 EXAMINATION	.1	Verification of Conditions: verify that conditions installed under other Sections or Contracts a installation in accordance with manufacture	re acceptable for GCL
		.1 Visually inspect substrate.	

- Visually inspect substrate. Inform Engineer of unacceptable conditions immediately upon .1 .2 discovery.

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Town of Nipawin Landfill Closure Project Specification		GEOSYI	NTHETIC CLAY LINER	Section 31 27 10 Page 2 of 2 2024-06-21
		.3	Proceed with installation only afte been remedied and after receipt of Engineer.	
3.2 PREPARATION	1	Tempo	rary Erosion and Sedimentation Con	itrol:
		.1	Provide temporary erosion and sec prevent soil erosion and discharge airborne dust to adjacent propertie sediment and erosion control plan,	of soil-bearing water runoff or s and walkways, according to
		.2	Inspect, repair, and maintain erosion measures during construction until established.	on and sedimentation control
		.3	Remove erosion and sedimentation stabilize areas disturbed during rem	
3.3 BEDDING	1	Dewate conditi	er excavation, as necessary, to allow on.	placement of liner in dry
	.2	the sub	n the excavation so as to create intimingrade free from voids, stones, and one the liner.	
3.4 LAYER LINING	1	Refer t	o manufacturer's installation specific	cations.
3.5CLEANING	1	Progres	ss Cleaning: clean in accordance wit	h relevant Sections.
		.1 .2	Leave Work area clean at end of e Final Cleaning: upon completion r tools and equipment in accordance	remove surplus materials, rubbish,
		.3	Cleaning. Waste Management: separate wast recycling.	te materials for reuse and

A-NMS312213++ Town of Nipawin		GRASS SEEDING	Section 31 92 00	
Landfill Closure Project Specification			Page 1 o 2024-06-2	
PART 1 – GENERAL	_			
1.1 DELIVERY STORAGE AND HANDLING	.1	Provide seed in standard containers clear information:	ly labeled with the	following
		.1 Supplier's name and address .2 Lot Number .3 Net Mass	idual and angeing	
	.2	.4 Names and percentages of indiv Protect seed from moisture, mould and da	•	eit and storage
			C	
	.3	Provide fertilizer in standard containers c information:	elearly labeled with	the following
		<ul><li>.1 Supplier's name and address</li><li>.2 Specified Composition</li><li>.3 Net Mass</li></ul>		
PART 2 – PRODUCTS				
2.1 MATERIALS	.1	For all manicured turf areas, a grass mixt	ure of	
		.1 Kentucky Bluegrass — any two Touchdown, Nugget, America o .2 Creeping Red Fescue — either I .3 Chewings Fescue — either Vict .4 Redtop or turf type perennial ryo This seed mixture shall be applied at a ra sq. metre (6.0 1b Per 1,000 ft2)	of the following: or Midnight Boreal or Jasper ory or Banner egrass	35% by weigh 25% by weigh 30% by weigh 10% by weigh 2.93 kg per 100
	.2	For all-natural areas that have been previ	ously disturbed, a g	grass mixture of:
		<ul><li>.1 Western Wheatgrass (Walsh)</li><li>.2 Northern Wheatgrass (Elbee)</li><li>.3 Fall Rye</li></ul>		45% by weigh 45% by weigh 10% by weigh
		.4 This seed mixture shall be applied kg/ha.	ed at a rate of not le	ess than 70
	.3	Provide seed and seed mixture that are fr seeds.	ee of all prohibited	noxious weed
	.4	Provide Canada No. 1 Grade seed in accordance Canada Seeds Act and Seeds Regulations wet, mouldy, or otherwise damaged.		
	.5	Provide fertilizer in accordance with Gov and Fertilizers Regulations. Fertilizer is t mixture and the soil conditions.		

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Town of Nipawin Landfill Closure Project Specification	(	GRASS SEEDING	Section 31 92 00 Page 2 of 2 2024-06-21
PART 3 – EXECUTION			
3.1 GENERAL	1	Prepare topsoil surface for seeding as required	by Engineer.
	.2	Apply materials during calm weather and on g standing water.	round free of frost and
	.3	Measure the quantities of materials by weight.	
3.2 APPLICATION OF SEEDS	1	Perform seeding operations at such a time of the conditions are suitable for establishing grass st	
	.2	Fine grade and loosen the surface to plow dept without undue loss from high winds or ordinar	
	.3	Where the work adjoins existing vegetation, bl 300 mm into adjacent vegetated areas.	end the application at least
	.4	Protect seeded areas against damage.	
	.5	Sow seed mixture by drilling with disk or shoe	type grass drill.
	.6	Apply seed uniformly at the rate specified.	
	.7	Regulate the drill so that the seed is properly p 20 to 32 mm.	laced in the soil to a depth of
	.8	Apply fertilizer uniformly at the rate of 78.5 K attachment.	g per hectare using a fertilizer
3.3 MAINTENANCE	1	Re-apply seed to all areas that do not show a usuch reapplication to allow for establishment performance of the Work. A uniform stand of growth that shows no bare spots greater than 0 provides a minimum of eighty percent ground	orior to Substantial grass will be considered .25 square meters in size and
	.2	Areas seeded in the fall will be inspected in the after the staff of the growing season.	e following spring, one month

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Landfill Closure Project Specification		Page 1 of 2 2024-06-21
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PART 1 – GENERAL		
<u>1.1 INTENT</u>	Read this section in conjunction with other splacement of restoration of sitework specific	
1.2 DETAILED DRAWINGS	Not Applicable.	
PART 2 – PRODUCTS		
2.1 NOT USED	Not Used.	
PART 3 – EXECUTION		
3.1 RESTORATION – GENERAL	Restore all existing areas and sitework dama earthwork or other work of this Contract, ba	
3.2 RESTORATION OF LANDSCAPED AREAS	Replace topsoil in accordance with Section Stockpiling.	311413 – Soil Stripping and
.2	Restore grassed areas by seeding in accorda Seeding.	nce with Section 312900 Grass
3.3 RESTORATION OF CONCRETE STRUCTURES	Restore any damage to concrete curb & gutt driveways back to their original condition (of disturbed by the installation of pipeline and	or better) that is damage or
.2	The restoration of concrete monolithic sides will require reinforcing dowel between exist replacement concrete structures.	
3.4 RESTORATION OF GRAVEL SURFACING	Push and windrow existing granular materia activities.	al prior to start of construction
.2	Replace damaged gravel surface resulting for base granular materials material to equal or gravel structure prior to construction.	
	Grade gravel to match existing lines, grades	and elevations.
.2	Granular materials shall be in accordance wand Granular Material Testing.	ith Section 312320 Earthwork

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3.5 RESTORATION OF HOT MIX ASPHALT	.1	Restore any damage to asphalt pavement due to construction activities.	
		Where edges of existing paving have become ragged, cut paving to form a straight line prior to placing new paving.	
	.3	Thoroughly clean edges of existing paving abonding agent prior to placing asphalt.	and coat with bituminous
	.4	Place asphalt in maximum 75 mm lifts.	
	.5	Compact new asphalt paving using a steel weight of 8 tonnes.	wheel roller with a minimum
	.6	Ensure finished grade of asphalt paving conrises, depressions or ridges.	forms to existing surface with no