

Invitation to Tender

CITY OF KENORA

INVITATION TO TENDER / ADVERTISEMENT

Sealed Tenders
for:

2026 City of Kenora Municipal Paving Program
(the "Project")
Tender Number: 313-001-25

Will be received
by:

City of Kenora
(the "City")

at:

1 Main Street South
Kenora, ON P9N 3X2
Attention: City Clerk

Time and date for Tender Closing is:

11:00:00 a.m. CST/CDT on April 2, 2026
(the "Tender Closing")

1. The work to be undertaken generally involves, but is not necessarily limited to: roadway and storm sewer reconstruction, multi-use path construction, and street light replacements (the "Work") as set out on the list of drawings and specifications described as follows: See Appendices "A" through "J" of the Instructions to Tenderers.

2. The Successful Bidder shall achieve substantial performance of the Work for the Project by September 25, 2026

3. The drawings and specifications for the Project can be obtained from MERX or from sstiller@kenora.ca**.**

4. All written inquiries regarding the technical aspects of the drawings and specifications for the Work shall be emailed to sstiller@kenora.ca, however the bidder(s) acknowledge and agree that the CITY does not have an obligation to provide a response to any written inquiry and that it is in the sole and unfettered discretion of the CITY to provide any written response to a written inquiry. Telephone inquiries and email inquiries will not be replied to.

5. Submission of a tender by a Bidder gives the CITY the right to require the Bidder to execute the contract to perform the Work as set out within the tender documents. Tenders may not be withdrawn after the Tender Closing and will be irrevocable and open for acceptance by the CITY for a period of sixty (60) days following the end of the day of the Tender Closing. The Successful Bidder will be notified in writing of the award of the Tender when the CITY delivers a letter of intent to the Successful Bidder.

INSTRUCTIONS TO TENDERERS

CITY OF KENORA

INSTRUCTIONS TO TENDERERS

1 BACKGROUND

1.1 The City of Kenora (the "CITY") is seeking tenders for **the City of Kenora 2026 Municipal Paving Program** (the "Work") as more particularly set out in Appendices "A" through "J" attached to these Instructions to Tenderers

1.2 The CITY will receive sealed tenders until 11:00:00 a.m. CST/CDT on April 2, 2026 ("Tender Closing"). Faxed tenders will not be accepted and will be returned to the Tenderer.

2 SUBMISSION OF TENDERS

2.1 Each Tender shall be addressed to the CITY in a sealed envelope clearly marked with the Tenderer's name, address and tender number. The sealed envelope containing the Tender shall be delivered before the Tender Closing to the CITY in accordance with the Invitation to Tender and the Instructions to Tenderers at:

City of Kenora
1 Main Street South
Kenora, ON P9N 3X2
Attention: Heather Pihulak, City Clerk

2.2 In the event of a dispute or issue about whether or not a tender complies with the Instructions to Tenderers, the CITY reserves the right to retain and open a copy of the tender in question in order to seek and obtain a legal opinion in relation thereto. The opening of a tender does not in any way constitute an admission by the CITY as to the compliance, or not, of the subject tender.

2.3 Inquiries are permitted until **March 23rd at 4:30pm CST** and are to be directed to the below City Contact via email.

Stefan Stiller, P.Eng | Project Manager | sstiller@kenora.ca

3 TENDER FORM

3.1 Each Tenderer shall submit a complete tender on the Tender Form which forms part of the Tender Documents with the blank spaces filled in. The tender sum must be written in words as well as figures, and must be for a sum in Canadian Dollars including all tariffs, freight, duties and taxes other than the Goods and Services Tax which must be shown as a separate amount unless otherwise specifically stipulated (hereinafter referred to as the "Tender Sum"). In the event of a discrepancy between an amount written in words and an amount written in figures, the amount written in words shall be deemed the intended amount. Tenders shall be written in English.

3.2 Notwithstanding the foregoing, the CITY shall be entitled to accept a Tender in such form as the CITY in its sole and unfettered discretion deems acceptable irrespective of irregularities whether of a trivial nature, or whether the Tender is noncompliant in a trivial manner.

3.3 The CITY shall not be obligated to accept Tenders that are unsigned, incomplete, conditional, illegible, unbalanced, obscure, contain irregularities of any kind, or contain mathematical or calculation errors of any kind. On Unit Price Tenders, if there is a discrepancy found between the unit price and the extended amount, the unit price shall be deemed to represent the intention of the Tenderer. Discrepancies between words and figures will be resolved in favour of the words. Discrepancies between the indicated sum of any figures and the correct sum thereof will be resolved in favour of the correct sum. Any discrepancies between the Tender Form and a post Tender Closing submission required by the Tender Documents will be resolved in favour of the post Tender Closing submission.

3.4 Tenders shall not be withdrawn, modified or clarified after being delivered in accordance with the Tender Documents unless such withdrawal, modification or clarification is made in writing and actually received by Heather Pihulak of the CITY prior to the Tender Closing. Any withdrawal, modification or clarification of the Tender must be followed by a letter of confirmation signed and sealed in the same manner as the Tender and delivered to the address for the CITY in the Invitation to Tender within 48 hours of the Notice of the Withdrawal, Modification or Clarification.

4 THE FREEDOM OF INFORMATION AND PROTECTION OF PRIVACY ACT

4.1 All documents submitted to the CITY will be subject to the protection and disclosure provisions of Ontario's *Freedom of Information and Protection of Privacy Act* ("*FOIP*"). *FOIP* allows persons a right of access to records in the CITY's custody or control. It also prohibits the CITY from disclosing the Tenderer's personal or business information where disclosure would be harmful to the Tenderer's business interests or would be an unreasonable invasion of personal privacy as defined in sections 17 and 21 of *FOIP*. Tenderers are encouraged to identify what portions of their submissions are confidential and what harm could reasonably be expected from its disclosure. However, the CITY cannot assure Tenderers that any portion of the Tenderer's documents can be kept confidential under *FOIP*.

5 TENDER DOCUMENTS

5.1 The documents for the Tender are:

- Invitation to Tender
- Instructions to Tenderers
- Appendix A – Tender Form & Unit Price Sheets
- Appendix B – Submission Documents
- Appendix C – Tender Submission Checklist
- Appendix D – Drawings
- Appendix E – Lakeview Drive Proposed Traffic Staging
- Appendix F – Proposed Contract
- Appendix G – General Requirements
- Appendix H – Special Provisions
- Appendix I – Supplementary Reports
- Appendix J – Quantity Sheets

(hereinafter collectively referred to as the "Tender Documents")

By submitting its Tender, the Tenderer acknowledges and agrees that it has received and reviewed the Tender Documents.

6 VARIATION IN TENDER DOCUMENTS AND NO IMPLIED OBLIGATIONS

6.1 The Tenderer shall carefully examine the Tender Documents. Any errors, omissions, discrepancies or clauses requiring clarification shall be reported in writing to the CITY at least 10 calendar days prior to the Tender Closing. Where necessary the CITY shall respond to reported errors, omissions, discrepancies or clauses requiring clarification by way of Addenda.

6.2 Should a Tenderer fail to report any such errors, omissions, discrepancies or clauses requiring clarification at least 10 calendar days prior to the Tender Closing, the CITY shall be the sole judge as to the intent of the Tender Documents.

6.3 No implied obligation of any kind by or on behalf of the CITY shall arise from anything in the Tender Documents, and the express covenants and agreements contained in the Tender Documents and made by the CITY, are and shall be the only covenants and agreements that apply.

6.4 Without limiting the generality of Article 6.3, the Tender Documents supercede all communications, negotiations, agreements, representations and warranties either written or oral relating to the subject matter of the Tender made prior to the Tender Closing, and no changes shall be made to the Tender Documents except by written Addenda.

7 ADDENDA

7.1 Any changes to the Tender shall be in writing in the form of Addenda. Any Addenda issued to the Tender shall form part of the Tender Documents, whether or not the receipt of same has been acknowledged by a Tenderer, and the cost for doing the work therein shall be included in the Tender Sum. Verbal representations shall not be binding on the CITY nor form part of the Tender Documents. Technical inquiries into the meaning or intent of the Tender Documents must be submitted in writing to the person identified in Article 2.3 of the Instructions to Tenderers.

8 TENDER

8.1 Tenderers submitting Tenders shall be actively engaged in the line of work required by the Tender Documents and shall be able to refer to work of a similar nature performed by them. They shall be fully conversant with the general technical phraseology in the English language of the lines of work covered by the Tender Documents.

8.2 Each Tenderer shall review the Tender Documents provided by the CITY and confirm that it is in possession of a full set of Tender Documents when preparing its Tender.

8.3 Tenders shall be properly executed in full compliance with the following requirements:

8.3.1 The signatures of persons executing the Tender must be in their respective handwriting; and

8.3.2 If the Tender is made by a limited company, the full name of the company shall be accurately printed immediately above the signatures of its duly authorized officers and the corporate seal shall be affixed;

8.3.3 If the Tender is made by a partnership, the firm name or business name shall be accurately printed above the signature of the firm and the Tender shall be signed by a partner or partners who have authority to sign for the partnership;

8.3.4 If the Tender is made by an individual carrying on business under the name other than its own, its business name together with its name shall be printed immediately above its signature or

8.3.5 If the Tender is made by a sole proprietor who carries on business in its own name, the proprietor shall print its name immediately below its signature.

8.4 Tenders received from agents representing principals must be accompanied by a Power of Attorney signed by the said principals showing that the agents are duly authorized to sign and submit the Tender and have full power to execute the Contract on behalf of their principals. The execution of the Contract will bind the principals and have the same effect as if it were duly signed by the principals.

9 TENDER DEPOSIT

9.1 The Tenderer is required to submit with its Tender, a Consent of Surety and a Bid Bond in a form acceptable to the CITY, or in lieu of a Bid Bond, a Tenderer may submit, along with a Consent of Surety, a certified cheque or an irrevocable letter of credit in favour of the CITY equal to 10% of the Tender Sum as a guarantee that, if awarded the contract for the Work, the Tenderer will execute a contract and submit the Performance Bond and the Labour and Material Payment Bond referred to in Article 10 within the specified time frames.

9.2 The Bid Bonds, certified cheques or irrevocable letters of credit of the unsuccessful Tenderers shall be returned as soon as possible after the Contract has been duly executed by the Successful Tenderer.

9.3 The CITY will not pay any interest on money furnished as security.

9.4 The Bid Bond and Consent of Surety shall be issued by a Surety Company licensed in the Province of Ontario and satisfactory to the CITY.

10 PERFORMANCE AND LABOUR AND MATERIAL PAYMENT BONDS

10.1 The Successful Tenderer shall be required to furnish at its own expense a Performance Bond and Labour and Materials Payment Bond. For the purposes of this Article, both of these bonds shall be referred to as the "Bonds".

10.2 The Performance Bond shall guarantee the faithful performance of the Contract, and in default thereof, shall protect the CITY against any losses or damage arising by reason of failure of the Successful Tenderer to faithfully perform the Contract.

10.3 The Bonds are to be issued by a Surety Company licensed in the Province of Ontario and satisfactory to the CITY in the amount of 100% of the Contract Price for the Performance Bond and 50% of the contract price for the Labour and Materials Payment Bond.

10.4 The Performance Bond shall remain in force as a Maintenance Bond for the Warranty Period as defined in the Contract. For Contract values not including Harmonized Sales Tax greater than $500,000 the Bonds must be provided using Form 31 and Form 32 under Section 85.1 of the Construction Act, Ontario.

10.5 The Bonds shall be in the form set out in the Tender Documents or in such other form as may be acceptable to the CITY.

10.6 The CITY may consider alternate forms of security in lieu of the Bonds. The Tenderer shall make known any alternative form of security it wishes the CITY to consider and obtain the CITY's approval prior to submitting a Tender.

10.7 The Successful Tenderer shall provide all required Bonds to the CITY no later than 5 working days after receipt of the Letter of Intent from the CITY provided in accordance with Article 16. The Bonds must be received prior to the execution of the contract.

10.8 The Successful Tenderer shall supply all required Bonds before any Work is undertaken by the Successful Tenderer.

10.9 No payment shall be made by the CITY to the Successful Tenderer for any of the Work performed by the Successful Tenderer until the required Bonds have been provided.

11 INSURANCE

11.1 The Tender shall be accompanied by a Certificate of Insurance, certifying that the insurance as required by the Contract, is in place or, if the required insurance is not in place, by a Letter of Insurability or Undertaking of Insurance in standard form from the Tenderer's Insurance Broker certifying that the required insurance will be issued to the Tenderer if the Tenderer is the Successful Tenderer.

11.2 The Successful Tenderer shall be required to secure and maintain at its own expense the insurance provided for in the Contract.

11.3 The Successful Tenderer shall provide all required insurance to the CITY no later than 10 working days after receipt of a Letter of Intent from the CITY provided in accordance with Article 16.

12 COMMENCEMENT AND COMPLETION OF WORK

12.1 The Successful Tenderer shall commence the Work within 10 working days after receipt of the Letter of Intent from the CITY and shall complete the Work by the dates specified in the Contract.

13 SITE CONDITIONS

13.1 The Tenderer is responsible for inspecting the site(s) of the Work and for making whatever inquiries or arrangements necessary for it to become fully informed of the nature of the site(s) of the Work, including the soil structure and topography of the site(s), and of the Work to be performed and all matters which may in any way affect the Work. Without limiting the foregoing, by the submission of its Tender, the Tenderer acknowledges that it has investigated and satisfied itself as to:

a) the nature of the Work;

b) the location and all conditions relating to the location of the Work including, but not limited to, accessibility, general character, surface and sub-surface conditions, soil structure, utilities, road, uncertainties of seasonal weather and all other physical, topographical, geological and geographic conditions;

c) the general character, conditions, laws and restrictions applicable to the Work that might affect the performance of the Work;

d) all environmental risks, conditions, laws and restrictions applicable to the Work that might affect the Work; and

e) the magnitude of the work required to execute and complete the Work.

13.2 The Tenderer is fully responsible for obtaining all information required for the preparation of its Tender and for the execution of the Work. The CITY is not responsible for undertaking any investigations to assist the Tenderer. Any information, plans, drawings, shop drawings or existing equipment or facilities, photos of the original construction, reports or other documents which are not included or referred to in the Tender Documents (the “Non-Tender Information”), form no part of this Tender. The CITY and the CITY’s Consultants assume no responsibility of any kind whatsoever arising from or relating to its failure to include or refer to such Non-Tender Information. Tenderers who obtain or rely upon such Non-Tender Information or other documents, do so entirely at their own risk.

13.3 The Tenderer’s obligation to become familiar with the information described in Article 13.1 is not lessened or discharged by reason of any technical reports, including soils reports or data, test hole drilling reports or other soils information, made available or supplied in conjunction with the tendering process. Any technical reports so provided are for information only and neither the CITY nor the CITY’s Consultants accept or assume any responsibility for the contents or accuracy of such technical reports and the Tenderer agrees that the CITY, the CITY’s Consultants and their representatives shall not be liable in any way to the Tenderer in respect of such technical reports. The Tenderer further agrees that it shall not

rely upon any oral information provided to it by the CITY, the CITY's Consultants or their representatives.

14 PRIME COST AND CONTINGENCY SUMS

14.1 The Tenderer shall include in its Tender Sum any prime cost sums or contingency sums. The Harmonized Sales Tax shall be shown as a separate amount.

15 PERMITS AND INSPECTIONS

15.1 The Tenderer shall include in its Tender Sum the cost of permits and inspections required by any governmental or other authority having jurisdiction or as required to fully perform the Work in accordance with the Contract.

16 SUCCESSFUL TENDERER

16.1 Award of Contract by the CITY occurs once the Tenderer receives a Letter of Intent duly executed by a Director of the CITY after they have been duly and legally authorized by the CITY to send such Letter of Intent.

16.2 Following the receipt of the Letter of Intent, the Successful Tenderer shall provide the Certificate of Insurance unless previously provided.

16.2.1 Upon the Successful Tenderer complying with the requirements of both Articles 16.2 and 16.4, the certified cheque or Bid Bond or irrevocable letter of credit, as the case may be, shall be returned to the Successful Tenderer.

16.2.2 If the Successful Tenderer fails to comply with either or both of the requirements of Articles 16.2 and 16.4, the certified cheque or Bid Bond or irrevocable letter of credit, as the case may be, shall be forfeited to the CITY as compensation for damages the CITY may suffer.

16.3 The forfeiture of a Successful Tenderer's certified cheque or Bid Bond or irrevocable letter of credit shall not be construed as a waiver of any rights or remedies which the CITY may have against such Tenderer for loss or damages incurred or suffered in excess of the amount of such certified cheque or Bid Bond or irrevocable letter of credit.

16.4 Within 10 working days of receipt of the Contract from the CITY, the Successful Tenderer shall duly execute the Contract and return the Contract to the CITY.

16.5 Within 10 working days of receipt of a Letter of Intent in accordance with Article 16.1, the Successful Tenderer shall submit a proposed Construction Schedule showing the anticipated time of commencement and completion of each of the various operations to be performed under the Contract.

17. TENDER EVALUATION CRITERIA

17.1 Each Tender will be evaluated on the basis of the criteria listed below and the CITY will have the sole and unfettered discretion to award up to the maximum number of

points for each criteria as listed below. By submitting a Tender, the Tenderer acknowledges and agrees that the CITY has, and it is hereby entitled to exercise, the sole and unfettered discretion to award the points for the evaluation of the noted criteria.

17.2 By submitting its Tender, each Tenderer acknowledges and agrees that it waives any right to contest in any legal proceedings, the decision of the CITY to award points in respect of the criteria noted below. The criteria and the maximum number of points for each criteria are as follows:

1. Price	**100 points.**
Total Points	**100 points**

18 WORKERS' COMPENSATION

18.1 Each Tenderer is to submit with its Tender, a letter of account from the Workers' Compensation Board – Ontario. This letter is to be current and not dated 14 calendar days prior to the Tender Closing.

18.2 The Tenderers who do not have an account with the Workers' Compensation Board- Ontario shall provide with their Tender evidence of a subcontractor or other company that will carry such coverage on their behalf.

18.3 If the Tenderer is performing work in any exempt industry within the meaning of the Workers Compensation Board Act (the "WCB Act") and does not carry coverage, the Tenderer acknowledges that

18.3.1 the CITY is subject to a deeming order under s. 14(2) of the WCB Act (the "Deeming Order"); and

18.3.2 the Deeming Order states that all of the Tenderer's employees, directors, proprietors, partners or employees are deemed to be CITY employees for the purposes of the WCB Act while performing work for the CITY; and

18.3.3 the effect of the Deeming Order is that the Tenderer's employees, directors, proprietors and partners who are injured while performing work for the CITY under the Contract, have no right to sue anyone and are limited to a claim under the WCB Act.

18.4 The Tenderer shall communicate the existence and effect of the Deeming Order to all of its employees, directors, proprietors, partners or employees.

18.5 The CITY will reject any Tender which fails to comply with the provisions set out in Article 18.

19 REGISTRATION

19.1 Prior to commencing the Work, the Successful Tenderer shall obtain all authorizations required by the laws of the Province of Ontario and of the Country of Canada enabling it to carry on business to complete the Work required under the

Contract. Failure to be properly authorized shall entitle the CITY to forthwith terminate the Contract without compensation.

20 TENDERS EXCEEDING BUDGET

20.1 In addition to the rights contained within Article 20 herein, if the Tender Sum of every Tenderer exceeds the amount the CITY has budgeted for the Work, the CITY may reject all Tenders or attempt to negotiate a lower price with the Tenderer who, in the sole and unfettered discretion of the CITY, has submitted the most advantageous Tender.

20.2 Each Tenderer acknowledges and agrees that the CITY has the sole and unfettered discretion to employ any criteria in order to determine the Tender most advantageous to the CITY, that the CITY has no obligation to neither disclose such criteria nor employ the criteria listed outlined in Article 17 Tender Evaluation Criteria.

20.3 By submitting its Tender, each Tenderer waives its right to contest in any action, application, case or legal proceeding in any court, the decision which the CITY may pursue under Article 20.1 and 20.2 herein.

20.4 If the Tender Sum of every Tenderer exceeds the amount budgeted for the Work and the CITY negotiates with the Tenderer who has submitted the Tender considered most advantageous to the CITY:

20.4.1 All statements made by either side in the course of negotiation are without prejudice and confidential;

20.4.2 In particular, the CITY's attempt to negotiate with such Tenderer does not constitute a rejection of its Tender; and

20.4.3 The CITY will not attempt to obtain a lower price for the same work that the Tenderer originally bid on, but may attempt to obtain a lower price for an altered scope of work. In no event will the CITY be obliged to disclose the amount budgeted for the Work.

21 CERTIFICATE OF RECOGNITION ("C.O.R.") SAFETY PROGRAM REQUIREMENT – NOT USED

21.1 N/A

21.2 N/A

21.3 N/A

21.4 N/A

21.5 N/A

22 CANADIAN FREE TRADE AGREEMENT

22.1 The provisions of the Canadian Free Trade Agreement ("CFTA") apply to this Tender.

23 ACCEPTANCE OR REJECTION OF TENDERS

23.1 As it is the purpose of the CITY to obtain the Tender most suitable and most advantageous to the interests of the CITY, and notwithstanding anything else contained within the Tender Documents, the CITY reserves the right, in its sole and unfettered discretion, to reject or accept any Tender, including the right to reject all Tenders. Without limiting the generality of the foregoing, any Tender which

a) is incomplete, obscure, irregular or unrealistic;

b) is non-compliant in a trivial/immaterial or substantial/material manner, or conditional;

c) has erasures or corrections;

d) omits a price on any one or more items in the Tender;

e) fails to complete the information required in the Tender;

f) is accompanied by an insufficient certified cheque, irrevocable letter of credit or by a Bid Bond in an unsatisfactory form,

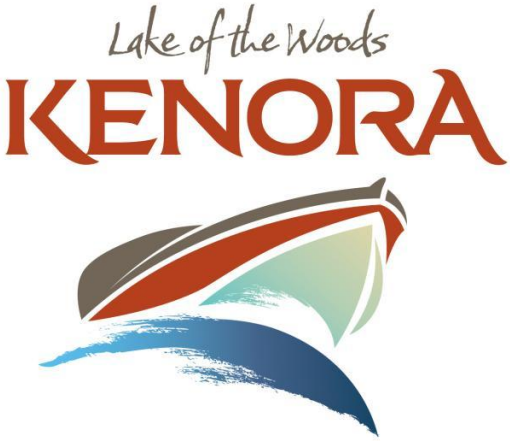
may at the CITY's sole and unfettered discretion be rejected or accepted. Further, a Tender may be rejected or accepted on the basis of the CITY's unfettered assessment of its best interest, which includes the CITY's unfettered assessment as to a Tenderer's past work performance for the CITY or for anyone else or as to a Tenderer's financial capabilities, completion schedule, or ability to perform the Work, or the CITY's desire to reduce the number of different contractors on the location of the Work at any given time. The CITY reserves the right to negotiate after Tender Closing time with the Tenderer that the CITY deems has provided the most advantageous Tender; in no event will the CITY be required to offer any modified terms to any other Tenderer prior to entering into a Contract with the successful Tenderer and the CITY shall incur no liability to any other Tenderers as a result of such negotiation or modification.

24 LAW AND FORUM OF TENDER

24.1 The law to be applied in respect of the Tender Documents and the Contract shall be the law of the Province of Ontario and all civil actions commenced in relation to the Tender Documents or Contract shall be adjudicated by the Courts of the Province of Ontario and by submitting Tenders, Tenderers are taken to have agreed to attorn to the jurisdiction of the Courts of the said Province.

25 ACCEPTANCE PERIOD

25.1 The Tender shall be irrevocable and open for acceptance by the CITY for the period of time contained in the Invitation to Tender, namely, sixty (60) days following the end of the day of the Tender Closing. The time and date of the Tender Closing is as defined in the Invitation to Tender.



APPENDIX A
TENDER FORM & UNIT PRICE SCHEDULES

CITY OF KENORA

TENDER FORM

Tender Number: 313-001-25
Tender Title: 2026 City of Kenora Municipal Paving Program

We, _____
(Company)

of _____
(Business Address)

having examined the Tender Documents as issued by: the City of Kenora (the "City"), and having visited the site(s) of where the Work is required to be undertaken; hereby offer to enter into a Contract to perform the Work required by the Tender Documents for the Tender Sum as follows:

1. Lakeview Drive $_____
2. Lakeview Drive-Parsons Street Intersection $_____
3. Railway Street Phase 4 $_____
4. Fourth Avenue South $_____
5. Sub-Total (summation of Items 1 through 4 above)

_____
(Sub-Total written in words)

_____
(Sub-Total in figures)

6. Ontario Harmonized Sales Tax (HST = 13%) $_____
7. Tender Sum (summation of Items 5 & 6 above)

_____
(Tender Sum including HST written in words)

_____
(Tender Sum including HST in figures)

in Canadian funds, which price includes any specified cash and contingency allowances and the applicable taxes in force at this date and except as may be otherwise provided in the Tender

Documents. The following quantities being approximate quantities, we agree to accept final payment on actual quantities measured during and on completion of the work at the unit prices stated hereafter.

Separate Prices:

Separate prices shall be submitted for the Work described below, which may be added to the Tender Sum if selected by the Owner. The Work defined in a Separate Price is not included in the Tender Sum and will not be considered in determining the lowest bidder. Acceptance of Separate Prices is at the sole discretion of the Owner. Submit complete and accurate prices for each Separate Price, including overhead and profit, labour, materials, and equipment. Include in each all the costs by Work of Subcontractors whose Work is affected, including costs for modifications to their Work as may be required should the Separate Price be accepted. Claims for extras to the Contract because of the acceptance of a Separate Price will not be accepted. Do not include Harmonized Sales Tax (HST) in Separate Prices.

1. First Street South Back Lane □
   (Drawing No. C-026, C-027) $_____

2. Sixth Street South□
   (City of Kenora Drawing No. C-105)□ $_____

3. Sixth Avenue South
   (City of Kenora Drawing No. C-106) $_____

4. CP Railway Sidewalk Crossing□
   (Drawing No. C-024)□ $_____

Unit Price Schedule:

The Unit Price Schedules shall be completed in accordance with the Tender Documents; any errors will be corrected as identified in Article 3.0.

Item#	Item Description	Spec. Ref.	Quant. Sheet	Unit	Est. Quant.	Unit Rate	Total Price
Section A	**Lakeview Drive - Winnipeg River West Branch Bridge to Winnipeg River East Branch Bridge**						
A-1	Earth Excavation, Grading	206 - SP	Y	m^3	12242		
A-2	Rock Excavation, Grading	206 - SP	Y	m^3	100		
A-3	Earth Borrow	212 - SP	N	m3	1461.6		
A-4	Hot Mix HL3 - 50mm Lift Thickness	310 - SP	Y	m^2	14731		
A-5	Hot Mix HL8 - 70mm Lift Thickness	310 - SP	Y	m^2	14405		
A-6	Hot Mix HL3 - 50mm Lift Thickness (Multi-Use Path)	310 - SP	Y	m^2	2516		
A-7	Hot Mix HL3 - 70mm Lift Thickness (Parking Lot)	310 - SP	Y	m^2	295		
A-8	Hot Mix HL4 - 50mm Lift Thickness (Temporary)	310 - SP	Y	m^2	556		
A-9	Asphalt Boulevard	311 - SP	Y	m^2	551		
A-10	Granular A	314 - SP	Y	t	7563		
A-11	Granular B Type II	314 - SP	Y	t	15306		
A-12	Geotextile	SP	Y	m^2	14483		
A-13	Geogrid	SP	Y	m^2	14603		
A-14	Concrete Sidewalk	351 - SP	Y	m^2	406		
A-15	Curb Faced Concrete Sidewalk	351 - SP	Y	m^2	110		
A-16	Tactile Walking Surface Indicators for Concrete Sidewalk Ramps	351 - SP	N	m^2	32		
A-17	Concrete Barrier Curb and Gutter, OPSD 600.040	353 - SP	Y	m	1740		
A-18	Concrete Semi-Mountable Curb and Gutter, OPSD 600.060	353 - SP	Y	m	90		
A-19	Pipe Subdrain	405 - SP	Y	m	725		
A-20	Install Catch Basin, Concrete, OPSD 705.010	407 - SP	Y	Each	4		
A-21	Install Catch Basin, Concrete, OPSD 705.020	407 - SP	Y	Each	2		
A-22	Adjust Manhole/Catch Basin	408 - SP	N	Each	1		
A-23	250 mm, PVC, SDR-35 Pipe Sewer	410 - SP	Y	m	29		
A-24	450 mm, PVC, SDR-35 Pipe Sewer	410 - SP	Y	m	37		
A-25	600 mm, PVC, SDR-35 Pipe Sewer	410 - SP	Y	m	2		
A-26	Removal of Asphalt Pavement, Full Depth	510 - SP	Y	m^2	14436		
A-27	Removal of Asphalt Pavement, Partial Depth - 50mm	510 - SP	Y	m^2	558		
A-28	Removal of Concrete Curb and Sidewalk	510 - SP	Y	m^2	1455		
A-29	Removal of Steel Beam Guide Rail	510 - SP	Y	m	382		
A-30	Removal of Catch Basin	510 - SP	Y	Each	6		
A-31	Removal of Pipes and Culverts	510 - SP	Y	m	62		
A-32	Rip Rap	511 - SP	Y	m^2	120		
A-33	Smalls Signs, Ground Mounted, New	703 - SP	Y	Each	49		
A-34	Small Signs, Ground Mounted, Removal	703 - SP	Y	Each	40		
A-35	Traffic Control Signing	706 - SP	N	LS	1		
A-36	Portable Variable Message Board	SP	N	Each	2		
A-37	Pavement Marking	710 - SP	Y	m	3963		
A-38	Pavement Marking, Durable	710 - SP	Y	m	17		
A-39	Pavement Marking Symbols	710 - SP	Y	Each	42		

Item#	Item Description	Spec. Ref.	Quant. Sheet	Unit	Est. Quant.	Unit Rate	Total Price
A-39	Traffic Signal Works	SP	N	LS	1		
A-40	Streetlights	SP	N	LS	1		
A-41	Install Steel Beam Guide Rail	721 - SP	Y	m	136		
A-42	Install Steel Beam Energy Attenuating Terminal	732 - SP	Y	Each	8		
A-43	Topsoil - 50mm Depth	802 - SP	Y	m^2	252		
A-44	Sod	803 - SP	Y	m^2	252		
A-45	Remove and Salvage Wooden Bollards	SP	N	Each	7		
A-46	Reinstall Wooden Bollards	SP	N	Each	7		
A-47	CCTV & Mandrel Testing 30 days After Pipe Installation	409, 438	N	m	68		
Section A - Lakeview Drive - Winnipeg River West Bridge to East Bridge Subtotal							

Item#	Item Description	Spec. Ref.	Quant. Sheet	Unit	Est. Quant.	Unit Rate	Total Price
Section B	**Lakeview Drive - Parsons Street Intersection**						
B-1	Earth Excavation, Grading	206 - SP	N	m^3	200		
B-2	Hot Mix HL3 - 50mm Lift Thickness	310 - SP	N	m^2	955		
B-3	Hot Mix HL8 - 70mm Lift Thickness	310 - SP	N	m^2	15		
B-4	Hot Mix HL3 - 50mm Lift Thickness (Multi-Use Path)	310 - SP	N	m^2	705		
B-5	Asphalt Boulevard	311 - SP	N	m^2	155		
B-6	Granular A	314 - SP	N	t	405		
B-7	Granular B Type II	314 - SP	N	t	10		
B-8	Earth Borrow	212 - SP	N	m3	510		
B-9	Concrete Sidewalk	351 - SP	N	m^2	110		
B-10	Curb Faced Concrete Sidewalk	351 - SP	N	m^2	35		
B-11	Tactile Walking Surface Indicators for Concrete Sidewalk Ramps	351 - SP	N	m^2	21		
B-12	Concrete Barrier Curb, OPSD 600.110	353 - SP	N	m	365		
B-13	Adjust Manhole/Catch Basin	408 - SP	N	Each	1		
B-14	Removal of Asphalt Pavement, Full Depth	510 - SP	N	m^2	340		
B-15	Removal of Asphalt Pavement, Partial Depth - 50mm	510 - SP	N	m^2	917		
B-16	Removal of Concrete Curb	510 - SP	N	m	60		
B-17	Removal of Concrete Curb and Sidewalk	510 - SP	N	m^2	320		
B-18	Removal of Steel Beam Guide Rail	510 - SP	N	m	118		
B-19	Traffic Control Signing	706 - SP	N	LS	1		
B-20	Pavement Markings	710 - SP	N	m	600		
B-21	Pavement Marking, Durable	710 - SP	N	m	26		
B-22	Pavement Marking Symbols	710 - SP	N	Each	20		
B-23	Traffic Signal Works	SP	N	LS	1		
B-24	Install Steel Beam Guide Rail	721 - SP	N	m	25		
B-25	Install Steel Beam Energy Attenuating Terminal	732 - SP	N	Each	3		
B-26	Topsoil - 50mm Depth	802 - SP	N	m^2	450		
B-27	Sod	803 - SP	N	m^2	450		
B-28	Relocate Transit Shelter	SP	N	LS	1		
B-29	Relocate Water Fountain	SP	N	LS	1		
B-30	Remove and Salvage Concrete Barriers	SP	N	LS	1		
Section B - Lakeview Drive - Parson Street Intersection Subtotal							

Item#	Item Description	Spec. Ref.	Quant. Sheet	Unit	Est. Quant.	Unit Rate	Total Price
Section C	**Railway Street Phase 4 - 1629 Railway to 1736 Railway**						
C-1	Earth Excavation, Grading	206 - SP	Y	m^3	2489		
C-2	Earth Borrow	212 - SP	N	m3	410.4		
C-3	Hot Mix HL3 - 40mm Lift Thickness	310 - SP	Y	m^2	2693		
C-4	Hot Mix HL8 - 60mm Lift Thickness	310 - SP	Y	m^2	2469		
C-5	Asphalt Boulevard	311 - SP	Y	m^2	32		
C-6	Granular A	314 - SP	Y	t	1462.564		
C-7	Granular B Type II	314 - SP	Y	t	2506		
C-8	Geotextile	SP	Y	m^2	3657		
C-9	Geogrid	SP	Y	m^2	3657		
C-10	Concrete Barrier Curb and Gutter, OPSD 600.040	353 - SP	Y	m	584		
C-11	90 Concrete Outlet	353 - SP	Y	Each	2		
C-12	Pipe Subdrain	405 - SP	Y	m	128		
C-13	Install Catch Basin, Concrete, OPSD 705.010	407 - SP	Y	Each	4		
C-14	Adjust Manhole/Catch Basin	408 - SP	N	Each	2		
C-15	Adjust Valve	408 - SP	N	Each	1		
C-16	250 mm, PVC, SDR-35 Pipe Sewer	410 - SP	Y	m	96		
C-17	Removal of Asphalt Pavement, Full Depth	510 - SP	Y	m^2	2453		
C-18	Removal of Asphalt Pavement, Partial Depth - 50mm	510 - SP	Y	m^2	4		
C-19	Removal of Pipes and Culverts	510 - SP	Y	m	24		
C-20	Rip Rap	511 - SP	Y	m^2	9		
C-21	Traffic Control Signing	706 - SP	N	LS	1		
C-22	Pavement Marking	710 - SP	Y	m	287		
C-23	Topsoil - 50mm Depth	802 - SP	Y	m^2	1378		
C-24	Sod	803 - SP	Y	m^2	1378		
C-25	Install Steel Pipe Bollards	SP	N	Each	2		
C-26	CCTV & Mandrel Testing 30 days After Pipe Installation	409, 438	N	m	96		
Section C - Railway Street Phase 4 - 1629 to 1736 Railway St Subtotal							

Item#	Item Description	Spec. Ref.	Quant. Sheet	Unit	Est. Quant.	Unit Rate	Total Price
Section D	**Fourth Avenue South - Fifth Street South to 100m South**						
D-1	Earth Excavation, Grading	206 - SP	N	m^3	575		
D-2	Hot Mix HL4 - Surface - 40mm Lift Thickness	310 - SP	N	m^2	1128.6		
D-3	Hot Mix HL4 - Binder - 40mm Lift Thickness	310 - SP	N	m^2	996.6		
D-4	Asphalt Mountable Curb with Wide Gutter, OPSD 601.010	312 - SP	N	m	90		
D-5	Granular A	314 - SP	N	t	400		
D-6	Granular B Type II	314 - SP	N	t	690		
D-7	Concrete Sidewalk	351 - SP	N	m^2	90		
D-8	Curb Faced Concrete Sidewalk	351 - SP	N	m^2	60		
D-9	Tactile Walking Surface Indicators for Concrete Sidewalk Ramps	351 - SP	N	m^2	1		
D-10	Concrete Barrier Curb, OPSD 600.110	353 - SP	N	m	50		
D-11	Removal of Asphalt Pavement, Full Depth	510 - SP	N	m^2	800		
D-12	Removal of Concrete Curb and Sidewalk	510 - SP	N	m^2	150		
D-13	Traffic Control Signing	706 - SP	N	LS	1		
D-14	Streetlights	SP	N	LS	1		
D-15	Topsoil - 50mm Depth	802 - SP	N	m^2	400		
D-16	Sod	803 - SP	N	m^2	400		
Section D - Fourth Avenue South - Fifth St S to 100m S Subtotal							

Item#	Item Description	Spec. Ref.	Quant. Sheet	Unit	Est. Quant.	Unit Rate	Total Price
Section E	**Separate Price - Backlane - First Street South/Second Street South and Seventh Avenue South/Eighth Avenue South**						
E-1	Earth Excavation, Grading	206 - SP	N	m^3	250		
E-2	Hot Mix HL4 - Surface - 50mm Lift Thickness	310 - SP	N	m^2	800		
E-3	Granular A	314 - SP	N	t	400		
E-4	Concrete Barrier Curb, OPSD 600.110	353 - SP	N	m	25		
E-5	Adjust Valve	408 - SP	N	Each	1		
E-6	Removal of Asphalt Pavement, Full Depth	510 - SP	N	m^2	660		
E-7	Traffic Control Signing	706 - SP	N	LS	1		
E-8	Topsoil - 50mm Depth	802 - SP	N	m^2	400		
E-9	Sod	803 - SP	N	m^2	400		
Section E - Separate Price - Backlane - First St S/Second St S and Seventh Ave S/Eighth Ave S Subtotal							

Item#	Item Description	Spec. Ref.	Quant. Sheet	Unit	Est. Quant.	Unit Rate	Total Price
Section F	**Separate Price - Sixth Street South - Fourth Avenue South to Seventh Avenue South**						
F-1	Earth Excavation, Grading	206 - SP	N	m^3	1150		
F-2	Hot Mix HL4 - Surface - 50mm Lift Thickness	310 - SP	N	m^2	2422		
F-3	Hot Mix HL4 - Binder - 40mm Lift Thickness	310 - SP	N	m^2	2342		
F-4	Granular A	314 - SP	N	t	1250		
F-5	Granular B Type II	314 - SP	N	t	2000		
F-6	Concrete Sidewalk	351 - SP	N	m^2	122		
F-7	Curb Faced Concrete Sidewalk	351 - SP	N	m^2	136		
F-8	Tactile Walking Surface Indicators for Concrete Sidewalk Ramps	351 - SP	N	m^2	7.6		
F-9	Concrete Barrier Curb and Gutter, OPSD 600.040	353 - SP	N	m	403		
F-10	Removal of Asphalt Pavement, Full Depth	510 - SP	N	m^2	2360		
F-11	Removal of Concrete Curb and Sidewalk	510 - SP	N	m^2	233		
F-12	Traffic Control Signing	706 - SP	N	LS	1		
F-13	Topsoil - 50mm Depth	802 - SP	N	m^2	800		
F-14	Sod	803 - SP	N	m^2	800		
F-15	Adjust Manhole/Catch Basin	408 - SP	N	Each	1		
F-16	Remove and Reinstate Concrete Driveways/Walkways/Stairs		N	m^2	8		
F-17	Remove and Reinstate Wooden Walkway and Railing		N	LS	1		
F-18	Hydraulic Breaker - Min. 4500J Impact Energy, 1000bpm, c/w rock removal and haulage		N	hr	60		
Section F - Separate Price - Sixth Street South - Fourth Ave S to Seventh Ave S Subtotal							

Item#	Item Description	Spec. Ref.	Quant. Sheet	Unit	Est. Quant.	Unit Rate	Total Price
Section G	**Separate Price - Sixth Avenue South - Sixth Street South to Fifth Street South**						
G-1	Earth Excavation, Grading	206 - SP	N	m^3	613		
G-2	Hot Mix HL4 - Surface - 50mm Lift Thickness	310 - SP	N	m^2	1004		
G-3	Hot Mix HL4 - Binder - 40mm Lift Thickness	310 - SP	N	m^2	962		
G-4	Granular A	314 - SP	N	t	500		
G-5	Granular B Type II	314 - SP	N	t	850		
G-6	Curb Faced Concrete Sidewalk	351 - SP	N	m^2	186		
G-7	Tactile Walking Surface Indicators for Concrete Sidewalk Ramps	351 - SP	N	m^2	0.76		
G-8	Concrete Barrier Curb and Gutter, OPSD 600.040	353 - SP	N	m	120		
G-9	Removal of Asphalt Pavement, Full Depth	510 - SP	N	m^2	1000		
G-10	Removal of Concrete Curb and Sidewalk	510 - SP	N	m^2	173		
G-11	Traffic Control Signing	706 - SP	N	LS	1		
G-12	Topsoil - 50mm Depth	802 - SP	N	m^2	450		
G-13	Sod	803 - SP	N	m^2	450		
G-14	Adjust Manhole/Catch Basin	408 - SP	N	Each	1		
G-15	Remove and Reinstate Concrete Driveways/Walkways/Stairs		N	m^2	6		
G-16	Hydraulic Breaker - Min. 4500J Impact Energy, 1000bpm, c/w rock removal and haulage		N	hr	60		
Section G - Separate Price - Sixth Avenue South - Sixth Street South to Fifth Street South							

Item#	Item Description	Spec. Ref.	Quant. Sheet	Unit	Est. Quant.	Unit Rate	Total Price
Section H	**Separate Price - CP Railway Sidewalk Crossing**						
H-1	Earth Excavation, Grading	206	N	m^3	35		
H-2	Hot Mix HL3 - Surface - 40mm Lift Thickness	310 - SP	N	m^2	25		
H-3	Granular A	314 - SP	N	t	40		
H-4	Concrete Sidewalk	351 - SP	N	m^2	75		
H-5	Curb Faced Concrete Sidewalk	351 - SP	N	m^2	50		
H-6	Tactile Walking Surface Indicators for Concrete Sidewalk Ramps	351 - SP	N	m^2	4		
H-7	Concrete Barrier Curb, OPSD 600.110	353 - SP	N	m	31		
H-8	Install Catch Basin, Concrete, OPSD 705.010	407	N	Each	1		
H-9	250 mm, PVC, SDR-35 Pipe Sewer	410	N	m	10		
H-10	Removal of Catch Basin	510	N	Each	1		
H-11	Abandonment of Pipes and Culverts	510	N	m	10		
H-12	Traffic Control Signing	706 - SP	N	LS	1		
H-13	Topsoil - 50mm Depth	802	N	m^2	200		
H-14	Sod	803	N	m^2	200		
H-15	CCTV & Mandrel Testing 30 days After Pipe Installation	409, 438	N	m	10		
Section H - Separate Price - CP Railway Sidewalk Crossing Subtotal							

Declarations:

We hereby acknowledge and declare that:

(a) we agree to perform the Work in compliance with the required completion schedule stated in the Contract;

(b) no person, firm or corporation other than the undersigned has any interest in this Tender or in the proposed Contract for which this Tender is made;

(c) the Tender Security is attached to this Tender. We specifically acknowledge and agree that the Tender Security may be forfeited to the City pursuant to the terms set forth in the Instructions to Tenderers;

(d) we hereby acknowledge and confirm that the City has the right to accept any tender or to reject any or all tenders in accordance with the Instructions to Tenderers;

(e) this Tender is open to acceptance for a period of sixty (60) days from the date of Tender Closing.

Signatures:

Signed, seated and submitted for and on behalf of:

Company: _____
(Name)

_____
(Street Address or Postal Box Number)

_____
(City, Province & Postal Code) ***(Apply SEAL above)***

Signature: _____

Name &Title: _____
(Please Print or Type)

Witness: _____

Dated at _____ this _____ day of _____, 20___

APPENDIX B
SUBMISSION DOCUMENTS

CITY OF KENORA

Schedule of Subcontractors

The Contractor states that the following Subcontractors shall be utilized on this Contract:

Items of Work	Subcontractor
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

The Contractor agrees that if a named Subcontractor is not acceptable to the City, the Contractor shall name an acceptable alternative Subcontractor.

Schedule of Suppliers and Manufacturers of Materials

The Contractor states that the following material suppliers and manufacturers shall be utilized for the supply items on this Contract.

Items	Supplier	Manufacturer

The Contractor agrees that, if a named supplier or manufacturer of materials and equipment is not acceptable to the City, the Contractor shall name an acceptable alternative.

Schedule of Equipment

The Contractor states that the equipment listed shall be available for the Work on this Contract.

The Contractor agrees that if the equipment listed is not acceptable to the City, the Contractor shall identify acceptable alternatives.

Description of Unit	Size or Capacity	Condition	Age	Location

Undertaking to Comply

1. I/We hereby undertake:

   - To comply with all applicable health and safety and environmental legislation in the performance of this contract;
   - To maintain a safe and healthy work environment during the performance of this contract;
   - That a Joint Health and Safety Committee or the appointment of a Health and Safety Representative is undertaken as applies to the Occupational Health & Safety Act.

2. I/We hereby agree:

   - That compliance with all health and safety and environmental legislation is a condition of the contact and that non-compliance with same may, at the City of Kenora's (hereinafter the City) discretion, lead to the termination of this Contract;
   - To permit the City to audit my/our health and safety and environment records during the term of the contract and upon its conclusion and to cooperate fully with any such audit(s);

3. I/We understand that contractor safety deficiencies will be addressed by the City in the following progressive steps;

   - The infraction(s) will be identified to the Contractor (site supervisor) verbally and documented as such.
   - The Contractor's Head Office will be contacted about the infraction(s), orally and in writing
   - If the infraction(s) remain, a written notice will be presented to the Contractor's Head Office and a fine of a minimum of $100 up to a maximum of $1000 per infraction will be deducted from the payment due to the Contractor
   - If required by law to immediately report the infraction(s), the City shall report the infraction to the appropriate ministry (ies).
   - The City may, at the City's discretion, suspend or terminate the contract and/or withhold payment by the City.
   - I/we acknowledge and agree that, depending on the nature and/or seriousness of the deficiency, the City reserves the right to bypass any or all of the steps described herein.

4. As the Prime Consultant or authorized representative of the contracted services, I understand that I am fully responsible for ensuring that all of our employees, subcontractors, and visitors comply with all necessary rules and regulations outlined therein and with all applicable regulations made under the Occupational Health and Safety Act.

Authorized Representative:	Witness:
(Print Name)	(Print Name)
(Signature) (Date)	(Signature) (Date)
Company Name	

Name of Administrator of Contractor’s Health and Safety Program:

_____

Indemnification Agreement

In consideration of the Corporation of the City of Kenora (the City) agreeing to contract with the undersigned

_____

(Name of contractor)

Hereby agrees and covenants that they shall indemnify and save harmless the City and all persons for whom it is in law responsible, from any and all claims, action suits, damages or costs arising or alleged to arise from the action, default or negligence of the undersigned, its agents or servants in their performing work or supplying materials on City property, or elsewhere at the City's request as laid out in the Contract documents.

This indemnity shall include all administrative costs, adjusting costs, and legal costs on a substantial indemnity basis.

This indemnity shall be limited in respect to work performed or services supplied between April 1, 2026 to December 31, 2028

Dated _____ 2026

_____

(Name of contractor)

Per: _____

(Signature)

Schedule of Alternative Proposals

The Contractor offers the following alternative units of equipment, materials, or methods of doing the Work, and offers to increase or decrease the Contract Price as stated for each unit of equipment, materials or methods of doing the Work. The increase or decrease includes allowance for the cost of making any adjustments to the Work, which may be required in order to make the proposed alternative fit into the Work as originally specified. The increase or decrease in price shall be added to or subtracted from the price bid for the Work as originally specified. A Change Order will be issued should the alternative(s) be accepted.

Item No.	Specification Section	Original Item	Bid Price	Alternate Item	Alternate Price Difference

The Contractor provides for review by the City the following details concerning the alternative equipment, materials, or methods of doing the Work. If insufficient space exists, please attach additional pages. Attach all back up information and specifications.

_____

_____

_____

_____

_____

_____

_____

APPENDIX C
TENDER SUBMISSION CHECKLIST

CITY OF KENORA

The Tender Submission Checklist is provided for the convenience of Tenderers as a summary of mandatory submission requirements. In the event of any discrepancy between the Tender Articles and the Tender Submission Checklist, the Tender Articles shall govern. The Checklist is for reference only, and the City makes no representations or warranties regarding its accuracy or completeness. By submitting a Tender, the Tenderer acknowledges and agrees that the City shall not be held liable for any errors, omissions, or discrepancies in the Checklist and expressly waives any and all claims, demands, or legal actions against the City arising from or relating to its use.

1) Tender Form and Unit Price Schedule – Article 3.0 – Completed in the form provided in Appendix A
2) Tender Deposit – Article 9.0 – Consent of Surety and Bid Bond
3) Insurance – Article 11.0 – Certificate of insurance or a Letter of Insurability or Undertaking of insurance. Level of insurance detailed in Appendix G – General Requirements
4) Workers' Compensation – Article 18.0 – Letter of account from the Workers' Compensation Board – Ontario or alternatives as listed in Article 18.0
5) Schedule of Subcontractors – Appendix B
6) Schedule of Suppliers and Manufacturers of Materials – Appendix B
7) Schedule of Equipment – Appendix B
8) Undertaking to Comply – Appendix B
9) Indemnification Agreement – Appendix B
10) Schedule of Alternative Proposals – Appendix B (Optional)

APPENDIX D
DRAWINGS

CITY OF KENORA

Stantec

CITY OF KENORA

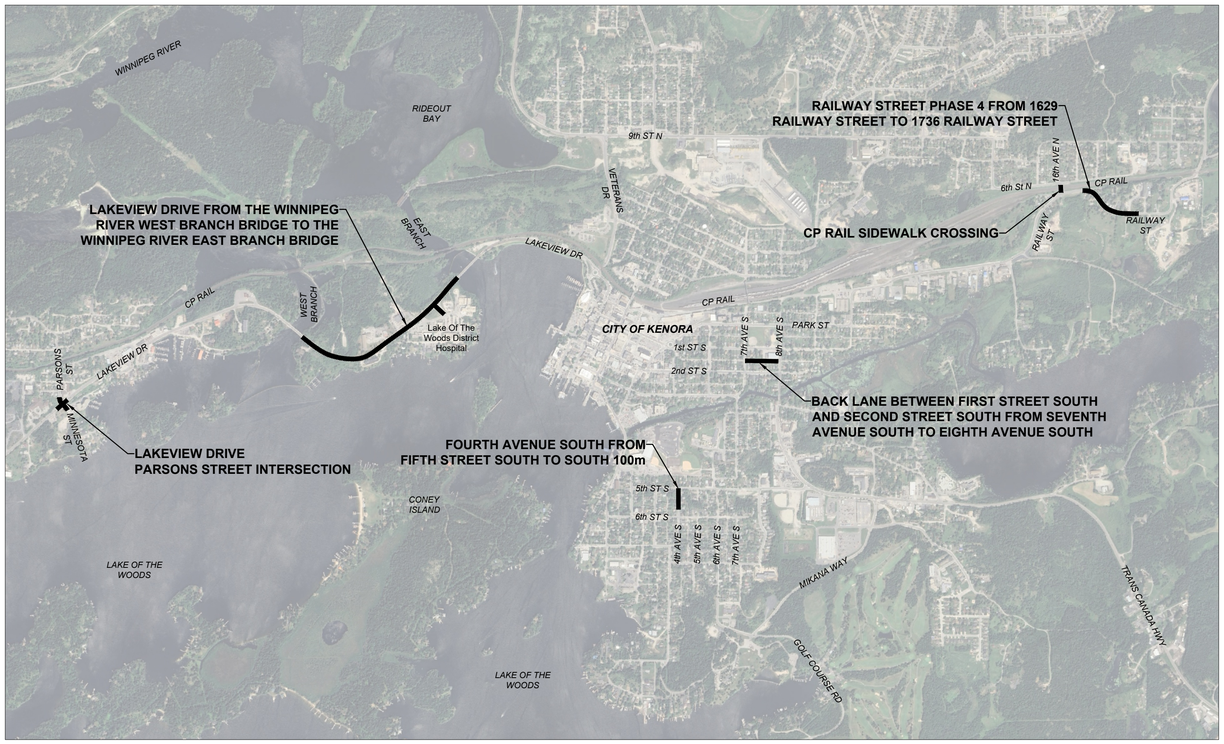
2026 MUNICIPAL PAVING PROGRAM

ISSUED FOR TENDER
February 26, 2026

Stantec Project Number: 113708672

DRAWING INDEX

DRAWING No.	SHEET No.	DESCRIPTION
C-001	1 of 35	COVER SHEET
LAKEVIEW DRIVE FROM THE WINNIPEG RIVER WEST BRANCH BRIDGE TO THE WINNIPEG RIVER EAST BRANCH BRIDGE		
C-002	2 of 35	LAKEVIEW DRIVE - HORIZONTAL GEOMETRY - WEST LIMIT TO STA 0+420
C-003	3 of 35	LAKEVIEW DRIVE - HORIZONTAL GEOMETRY - STA 0+420 TO STA 0+790
C-004	4 of 35	LAKEVIEW DRIVE - HORIZONTAL GEOMETRY - STA 0+790 TO EAST LIMIT
C-005	5 of 35	LAKEVIEW DRIVE - PLAN & PROFILE - WEST LIMIT TO STA 0+180
C-006	6 of 35	LAKEVIEW DRIVE - PLAN & PROFILE - STA 0+180 TO STA 0+300
C-007	7 of 35	LAKEVIEW DRIVE - PLAN & PROFILE - STA 0+300 TO STA 0+420
C-008	8 of 35	LAKEVIEW DRIVE - PLAN & PROFILE - STA 0+420 TO STA 0+540
C-009	9 of 35	LAKEVIEW DRIVE - PLAN & PROFILE - STA 0+540 TO STA 0+660
C-010	10 of 35	LAKEVIEW DRIVE - PLAN & PROFILE - STA 0+660 TO STA 0+790
C-011	11 of 35	LAKEVIEW DRIVE - PLAN & PROFILE - STA 0+790 TO STA 0+920
C-012	12 of 35	LAKEVIEW DRIVE - PLAN & PROFILE - STA 0+920 TO EAST LIMIT
C-013	13 of 35	NETHERCUTT DRIVE - PLAN & PROFILE - WOLSLEY STREET TO LAKEVIEW DRIVE
C-014	14 of 35	LAKEVIEW DRIVE - PLAN - TEMPORARY PAVEMENT
C-015	15 of 35	LAKEVIEW DRIVE - PAINT MARKINGS AND SIGNAGE - WEST LIMIT TO STA 0+420
C-016	16 of 35	LAKEVIEW DRIVE - PAINT MARKINGS AND SIGNAGE - STA 0+420 TO STA 0+790
C-017	17 of 35	LAKEVIEW DRIVE - PAINT MARKINGS AND SIGNAGE - STA 0+790 TO EAST LIMIT
LAKEVIEW DRIVE - PARSONS STREET INTERSECTION		
C-018	18 of 35	LAKEVIEW DRIVE - HORIZONTAL GEOMETRY
C-019	19 of 35	LAKEVIEW DRIVE - PARSONS STREET INTERSECTION
RAILWAY STREET PHASE 4 FROM 1629 RAILWAY STREET TO 1736 RAILWAY STREET & CP RAIL SIDEWALK CROSSING		
C-020	20 of 35	RAILWAY STREET - HORIZONTAL GEOMETRY
C-021	21 of 35	RAILWAY STREET - PLAN & PROFILE - WEST LIMIT TO STA 1+140
C-022	22 of 35	RAILWAY STREET - PLAN & PROFILE - STA 1+140 TO STA 1+260
C-023	23 of 35	RAILWAY STREET - PLAN & PROFILE - STA1+260 TO EAST LIMIT
C-024	24 of 35	CP RAIL SIDEWALK CROSSING - PLAN & PROFILE - SIXTEENTH AVE N AND SIXTH ST N
FOURTH AVENUE SOUTH FROM FIFTH STREET SOUTH TO SOUTH 100m		
C-025	25 of 35	FOURTH AVENUE SOUTH - PLAN & PROFILE - FIFTH STREET SOUTH TO 100m SOUTH
BACK LANE BETWEEN FIRST STREET SOUTH AND SECOND STREET SOUTH FROM SEVENTH AVENUE SOUTH TO EIGHTH AVENUE SOUTH		
C-026	26 of 35	BACK LANE BETWEEN - 1st STREET S AND 2nd STREET S - FROM 7th AVENUE S TO 8th AVENUE S
C-027	27 of 35	BACK LANE BETWEEN - 1st STREET S AND 2nd STREET S - FROM 7th AVENUE S TO 8th AVENUE S
SECTIONS & DETAILS		
C-028	28 of 35	SECTIONS
C-029	29 of 35	SECTIONS & DETAILS
ELECTRICAL		
C-030	30 of 35	LAKEVIEW DRIVE - STREET LIGHTING PLAN
C-031	31 of 35	LAKEVIEW DRIVE - TRAFFIC SIGNALS PLAN
C-032	32 of 35	LAKEVIEW DR AT PARSONS STREET - TRAFFIC SIGNALS PLAN
C-033	33 of 35	FOURTH AVENUE SOUTH - STREET LIGHTING PLAN
C-034	34 of 35	PROJECT DETAILS
C-035	35 of 35	PROJECT SPECIFICATIONS

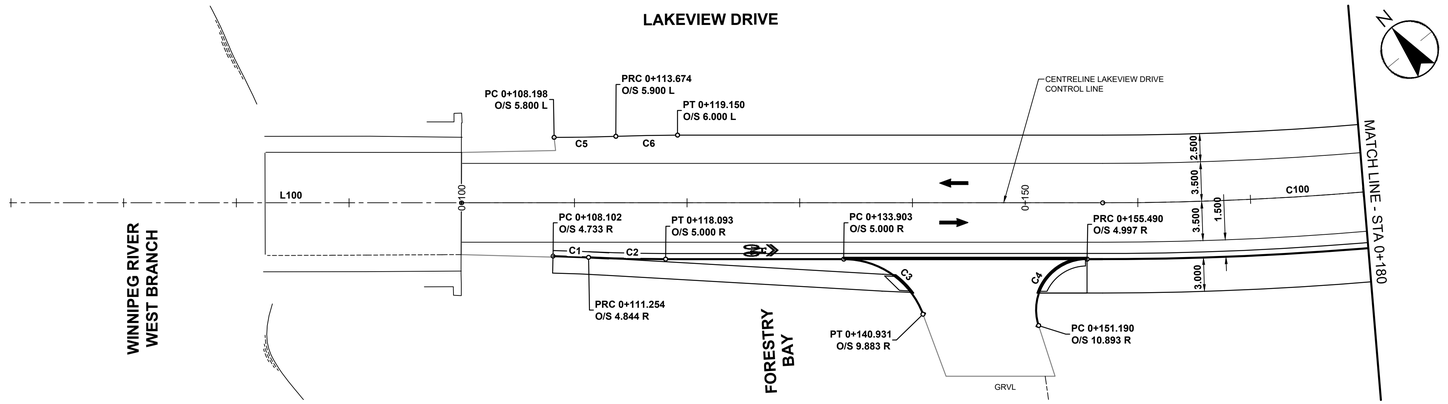


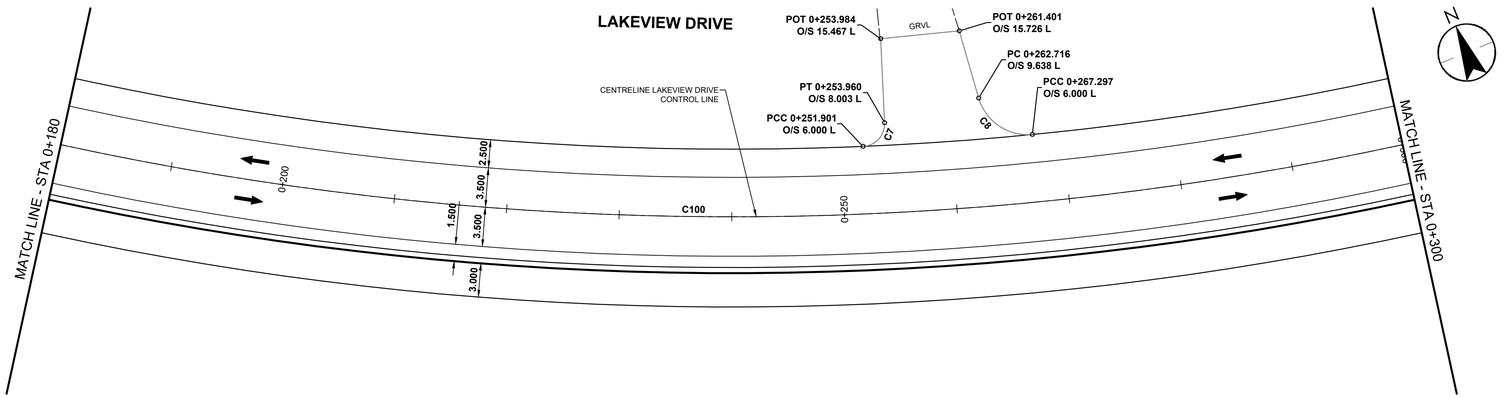
KEY PLAN

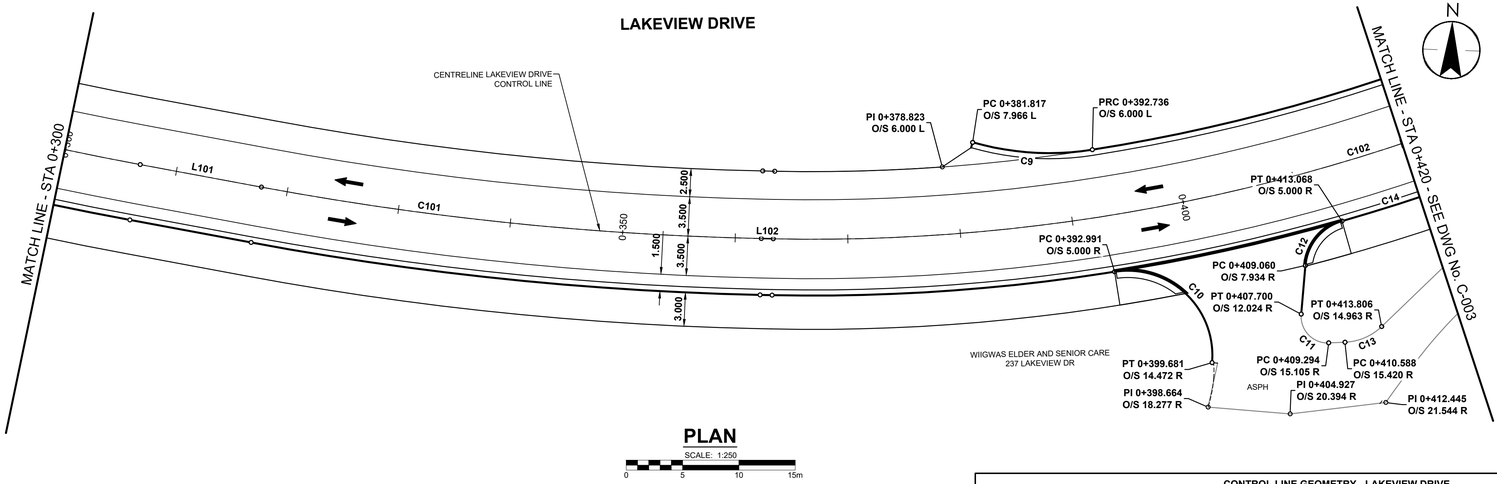
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2026/02/26 10:45 AM By: Lane, Dave

Drawing No. C-001

Sheet 1 of 35







PLAN

SCALE: 1:250

0 5 10 15m

CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	150.000	4.941	1°53'15"	2.471
C2	150.000	6.841	2°36'48"	3.421
C3	7.500	9.108	69°34'43"	5.211
C4	4.500	8.510	108°21'09"	6.234
C5	150.000	5.478	2°05'32"	2.739
C6	150.000	5.478	2°05'32"	2.739
C7	2.000	3.152	90°18'20"	2.011
C8	4.500	6.238	79°25'22"	3.737
C9	24.500	10.724	25°04'44"	5.449
C10	7.500	13.624	104°04'56"	9.614
C11	2.350	3.995	97°24'28"	2.675
C12	4.500	5.415	68°56'46"	3.090
C13	5.000	3.622	41°30'36"	1.895
C14	170.000	36.548	12°19'05"	18.345

CONTROL LINE GEOMETRY - LAKEVIEW DRIVE

NUMBER	LENGTH	RADIUS	DELTA	TANGENT	START STATION	NORTHING	EASTING	END STATION	NORTHING	EASTING
L100	149.572				0+007.309	5513806.432	391190.937	0+156.881	5513711.825	391306.787
C100	149.854	280.000	30°39'51"	76.768	0+156.881	5513711.825	391306.787	0+306.735	5513651.825	391442.158
L101	10.937				0+306.735	5513651.825	391442.158	0+317.672	5513650.195	391452.973
C101	44.646	275.000	9°18'07"	22.372	0+317.672	5513650.195	391452.973	0+362.318	5513647.145	391497.466
L102	1.066				0+362.318	5513647.145	391497.466	0+363.384	5513647.159	391498.532
C102	108.106	165.000	37°32'22"	56.073	0+363.384	5513647.159	391498.532	0+471.490	5513682.603	391598.624
C103	63.928	1000.000	3°39'46"	31.975	0+532.041	5513720.105	391646.163	0+595.969	5513758.069	391697.585

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

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Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	33.333
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0 ISSUED FOR TENDER	GFC By	MEE Appd.	2026.02.26 YYYY.MM.DD
Issued/Revision			
File Name: 08672c-002	DML Dwn.	MEE Chkd.	GFC Dsgn. 2025.12.23 YYYY.MM.DD

Client Logo

Seal

Client/Project

CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

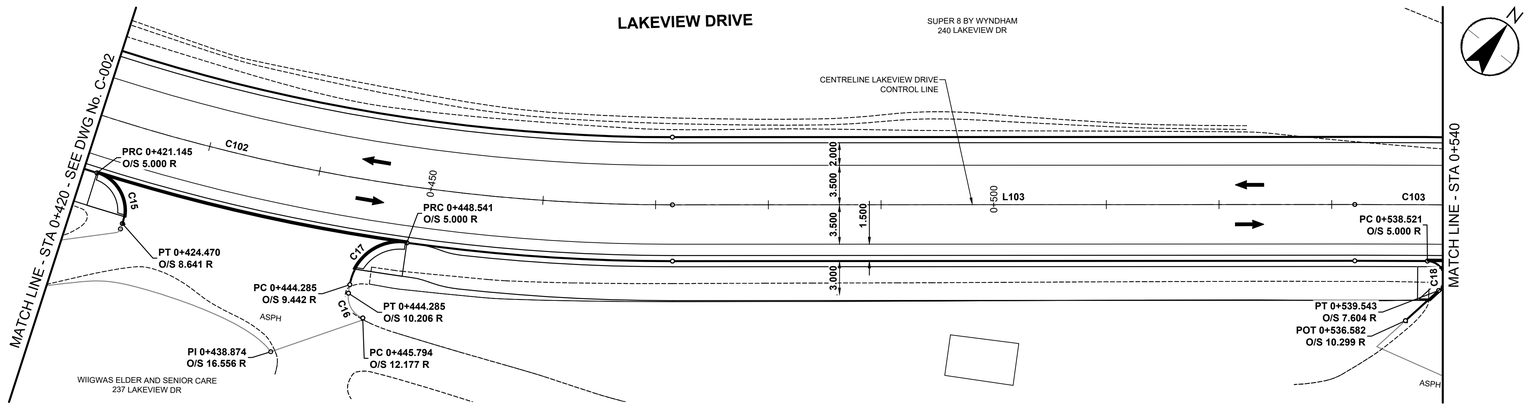
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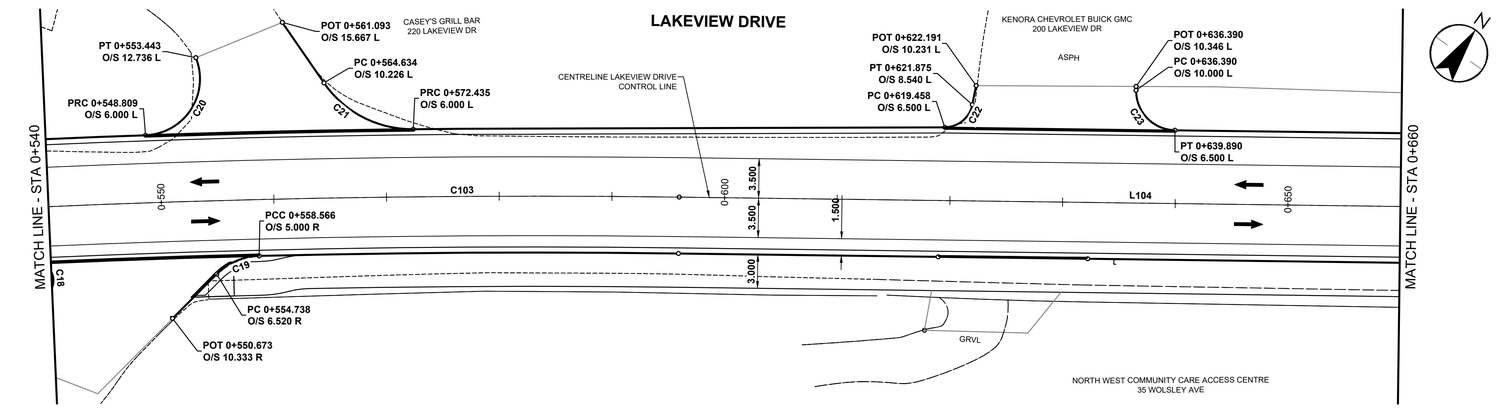
LAKEVIEW DRIVE
HORIZONTAL GEOMETRY
WEST LIMIT TO STA 0+420

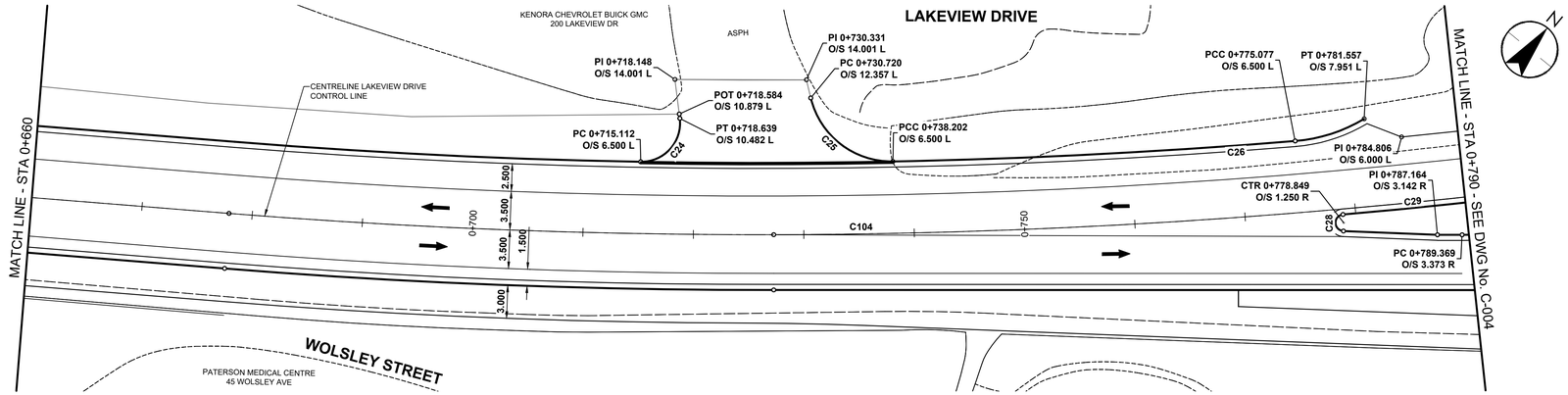
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113708672	1:250	
Drawing No.	Sheet	Revision
C-002	2 of 35	0

ORIGINAL SHEET - ARCH D 36" x 24"
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2026/02/24 10:45 AM By: Lane, Dove

ORIGINAL SHEET - ARCH D (36" x 24")







PLAN

SCALE: 1:250

0 5 10 15m

CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C15	3.500	5.604	91°44'06"	3.608
C16	2.000	2.760	79°03'23"	1.650
C17	4.500	6.953	88°31'20"	4.385
C18	1.500	3.597	137°23'47"	3.847
C19	5.500	4.200	43°45'08"	2.208
C20	5.000	9.615	110°11'02"	7.165
C21	9.500	9.295	56°03'29"	5.057
C22	2.500	3.425	78°29'14"	2.042
C23	3.500	5.498	90°00'00"	3.500
C24	3.500	5.992	98°04'57"	4.032
C25	7.500	10.171	77°42'14"	6.041
C26	593.566	59.315	5°43'32"	29.682
C28	0.750	2.260	172°39'21"	11.686
C29	600.500	19.715	1°52'52"	9.859

CONTROL LINE GEOMETRY - LAKEVIEW DRIVE									
NUMBER	LENGTH	RADIUS	DELTA	TANGENT	START STATION	NORTHING	EASTING	END STATION	NORTHING	EASTING
C102	108.106	165.000	37°32'22"	56.073	0+363.384	5513647.159	391498.532	0+471.490	5513682.603	391598.624
L103	60.551				0+471.490	5513682.603	391598.624	0+532.041	5513720.105	391646.163
C103	63.928	1000.000	3°39'46"	31.975	0+532.041	5513720.105	391646.163	0+595.969	5513758.069	391697.585
L104	81.926				0+595.969	5513758.069	391697.585	0+677.895	5513804.598	391765.016
C104	120.652	600.000	11°31'17"	60.530	0+677.895	5513804.598	391765.016	0+798.548	5513882.611	391856.788

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

\\cn0045-pcfs01\shared_projects\113708672\0300_drawings\0302_sheet_files\02_civil\08672c-003.dwg C-003 Lakeview HS2
2026/02/26 10:45 AM By: Lane, Dove

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KEY PLAN



Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	33.333
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0 ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision	By	Appd.	YYYY.MM.DD
File Name: 08672c-003	DML	MEE	GFC	2025.12.19
	Dwn.	Chkd.	Dsgn.	YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal



Client/Project

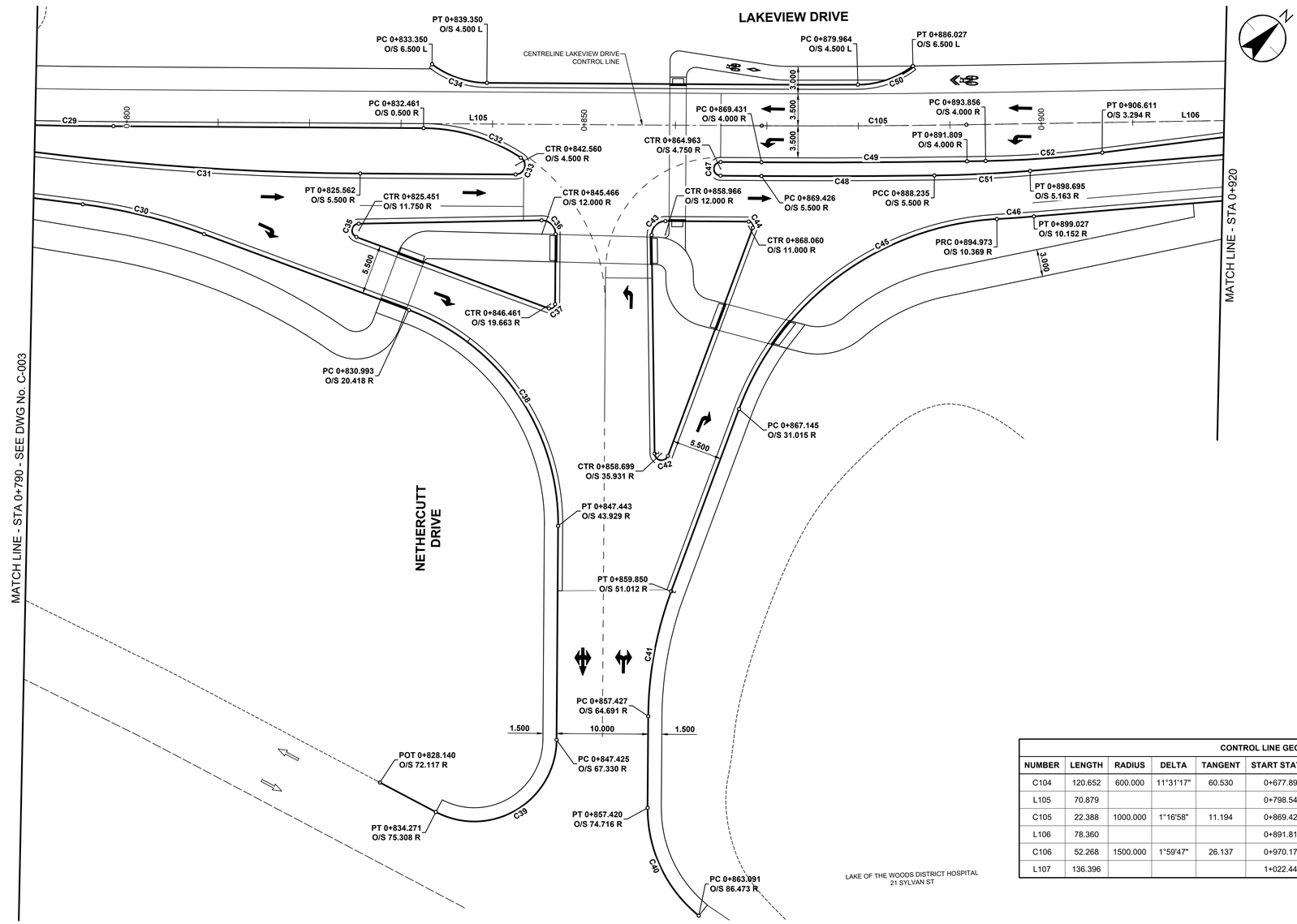
CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

Title

LAKEVIEW DRIVE
HORIZONTAL GEOMETRY
STA 0+420 TO STA 0+790

Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-003	3 of 35	0



PLAN

SCALE: 1:250

0 5 10 15m

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA	TANGENT
C29	600.500	19.715	1°52'52"	9.859
C30	60.000	13.677	13°03'39"	6.868
C31	300.000	36.334	6°56'21"	18.189
C32	19.502	11.260	33°04'56"	5.792
C33	1.000	2.564	146°54'52"	3.367
C34	10.000	6.435	36°52'12"	3.333
C35	0.750	2.130	162°44'54"	4.944
C36	1.500	2.395	91°28'27"	1.539
C37	0.500	0.960	109°57'27"	0.714
C38	25.000	30.562	70°02'33"	17.519
C39	9.000	18.448	117°26'40"	14.815
C40	15.000	13.505	51°35'07"	7.249
C41	40.000	13.963	20°00'00"	7.053
C42	0.750	2.079	158°48'16"	4.008
C43	1.500	2.386	91°09'17"	1.531
C44	0.500	0.960	110°02'33"	0.715
C45	32.000	37.066	66°21'59"	20.927
C46	154.500	4.060	1°30'21"	2.030
C47	0.750	2.356	180°00'00"	INFINITY
C48	1005.500	18.912	1°04'39"	9.456
C49	1004.000	22.467	1°16'56"	11.234
C50	10.000	6.465	37°02'38"	3.350
C51	149.500	10.487	4°01'09"	5.246
C52	115.500	12.781	6°20'25"	6.397
C53	114.500	12.670	6°20'25"	6.342
C54	0.750	2.252	172°02'22"	10.779
C55	298.500	20.620	3°57'29"	10.314
C56	1495.000	36.502	1°23'56"	18.252
C57	190.000	13.617	4°06'23"	6.811
C58	10.000	5.705	32°41'20"	2.933
C59	1504.900	14.062	0°32'07"	7.031

CONTROL LINE GEOMETRY - LAKEVIEW DRIVE

NUMBER	LENGTH	RADIUS	DELTA	TANGENT	START STATION	NORTHING	EASTING	END STATION	NORTHING	EASTING
C104	120.652	600.000	11°31'17"	60.530	0+677.895	5513804.598	391765.016	0+798.548	5513882.611	391856.788
L105	70.879				0+798.548	5513882.611	391856.788	0+869.426	5513933.707	391905.910
C105	22.388	1000.000	1°16'58"	11.194	0+869.426	5513933.707	391905.910	0+891.814	5513950.018	391921.244
L106	78.360				0+891.814	5513950.018	391921.244	0+970.174	5514007.708	391974.273
C106	52.268	1500.000	1°59'47"	26.137	0+970.174	5514007.708	391974.273	1+022.442	5514045.565	392010.308
L107	136.396				1+022.442	5514045.565	392010.308	1+158.838	5514142.707	392106.055

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KEY PLAN
LAKEVIEW DR

Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	33.333
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-004		DML	MEE	GFC 2025.12.19
		Dwn.	Chkd.	Dsgn. YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER
M. E. EDGAR
100210594
FEB 26, 2026
PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

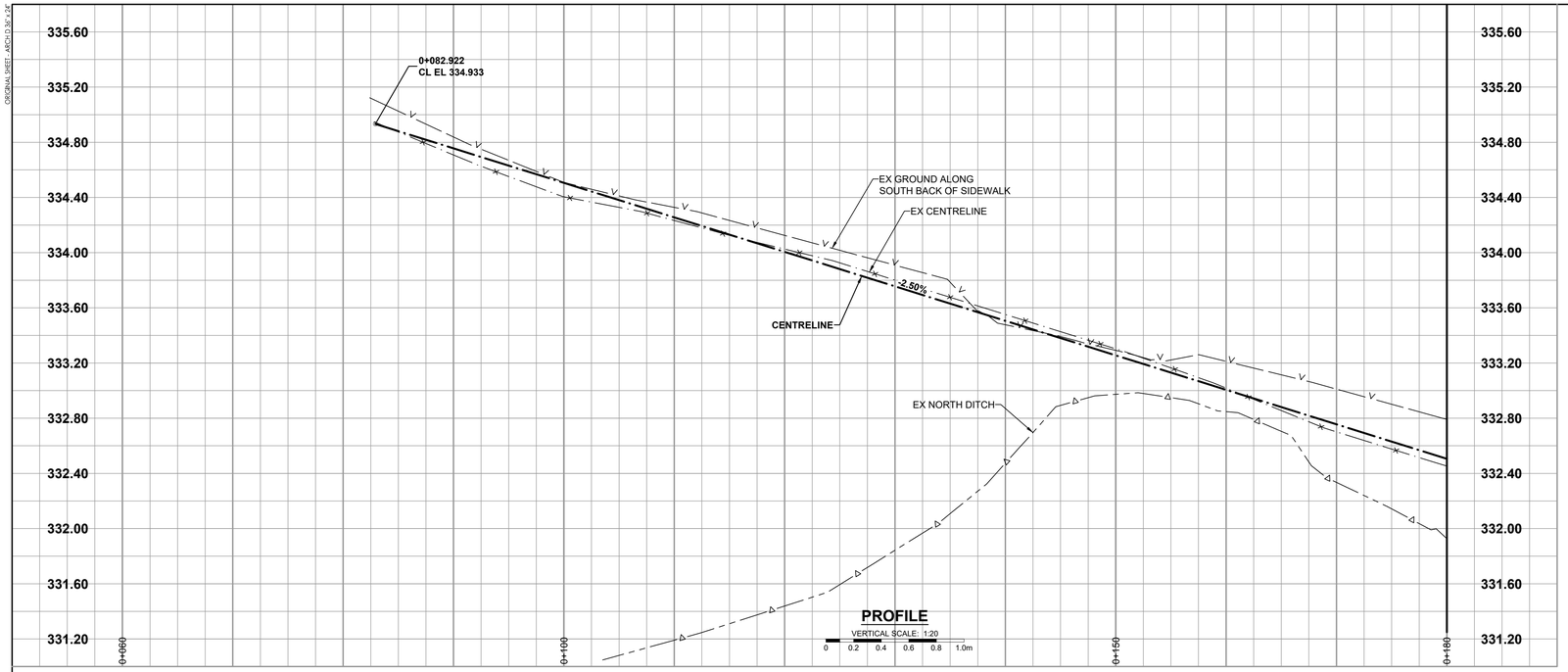
Title

LAKEVIEW DRIVE
HORIZONTAL GEOMETRY
STA 0+790 TO EAST LIMIT

Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-004	4 of 35	0

ORIGINAL SHEET - ARCH D (30" x 24")
\\cd0045.sptbd1\shared_projects\113708672\300_drawing\0302_sheet_files\V02_civil\08672c-004.dwg C-004 Lakeview HG3
2026/02/26 10:45 AM By: Lorie, Dove

ORIGINAL SHEET - ARCH D 36" x 24"



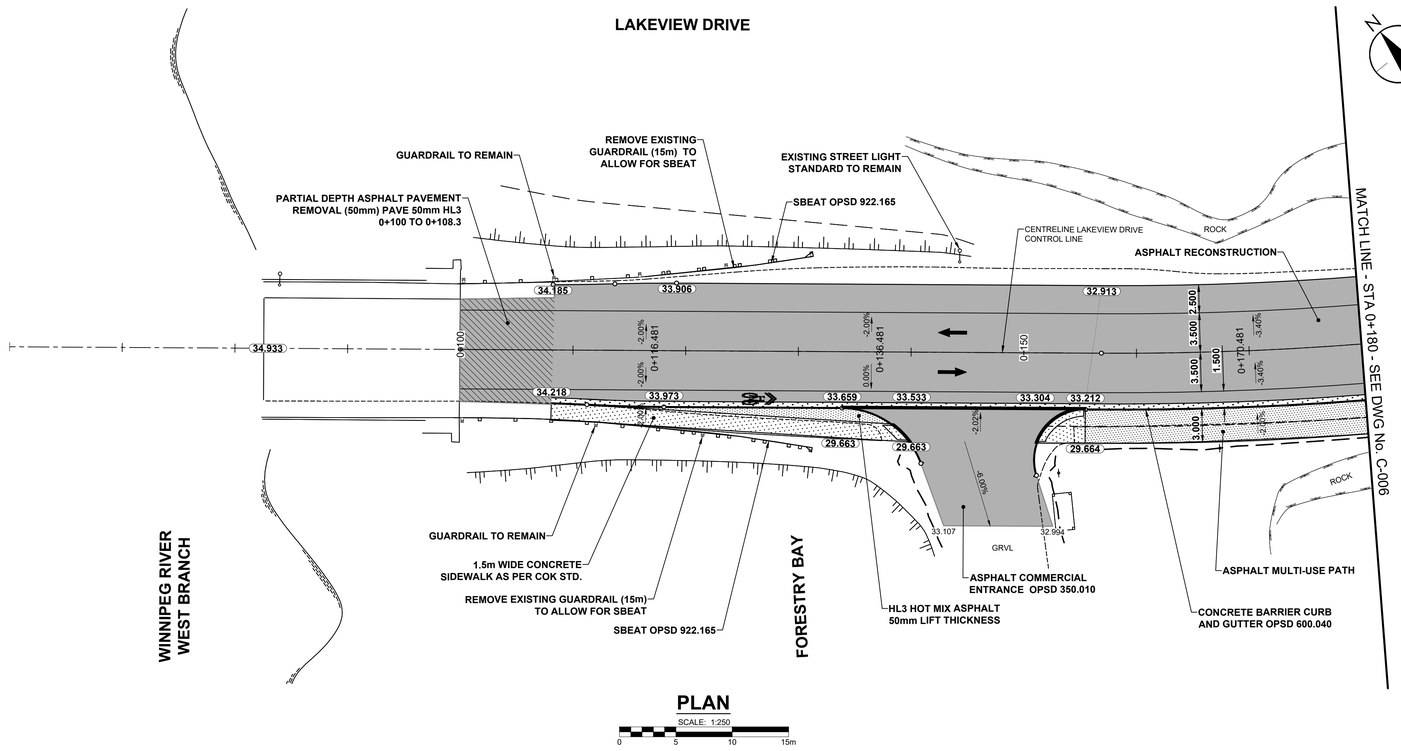
PROFILE

VERTICAL SCALE: 1:20

0 0.2 0.4 0.6 0.8 1.0m

NOTES

1. REMOVED & REPLACED EXISTING MANHOLE FRAME AND COVERS TO BE SALVAGED AND TAKEN TO CITY OPERATIONS YARD. ADJUST TO NEW GRADES.
2. REFER TO TENDER FOR DETAILS REGARDING TRAFFIC MANAGEMENT.
3. LAMP STANDARDS, HYDRO POLES, AND ANCHORS THAT REQUIRE TEMPORARY SUPPORT, REMOVAL OR REPLACEMENT, TO BE DONE SO AT THE EXPENSE OF THE CONTRACTOR AS NECESSARY.
4. UTILITIES SHOWN ARE APPROXIMATE ONLY, THE CITY OF KENORA AND ITS REPRESENTATIVES WILL NOT BE HELD ACCOUNTABLE FOR MISREPRESENTATION OF WATER AND SEWER SERVICES ON THIS DRAWING. CONTRACTOR IS RESPONSIBLE FOR UTILITY LOCATES PRIOR TO CONSTRUCTION.
5. CONTRACTOR TO COORDINATE WORK WITH UTILITY PROVIDERS.
6. LOT LINES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE VERIFIED BY CONTRACTOR.
7. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
8. EXISTING RESIDENTIAL PATHWAYS, STAIRS, RAMPS TO BE TIED IN TO BACK OF WALK.
9. CONTRACTORS TO BE RESPONSIBLE FOR REINSTATING ANY REGULATORY, WARNING OR STREET SIGNS THAT ARE REMOVED DURING CONSTRUCTION. THE REINSTATMENT OF SIGNAGE SHALL BE DEEMED INCIDENTAL TO THE CONTRACT WORK.
10. EXISTING RESIDENTIAL PATHWAYS, STAIRS, RAMPS, DRIVEWAYS TO BE REINSTATED AND CONSIDERED INCIDENTAL TO THE WORKS.
11. DRIVEWAYS AND CURB DROPS SHOWN ON DRAWINGS ARE APPROXIMATE, FINAL LOCATIONS TO BE FIELD DETERMINED WITH THE CONTRACT ADMINISTRATOR TO ACCOUNT FOR EXISTING CONDITIONS AND FEATURES.
12. ALL CATCH BASINS AND CATCH BASIN MAINTENANCE HOLES ARE TO HAVE SUMPS OF 0.6 m BELOW THE LOWEST PIPE INVERT CONNECTED TO EACH INDIVIDUAL STRUCTURE UNLESS NOT POSSIBLE DUE TO BEDROCK OR OTHER CONFLICTS.
13. CONTRACTOR SHALL VERIFY ALL PIPE INVERTS IN THE FIELD.
14. REMOVALS NOT SHOWN FOR CLARITY.
15. ASPHALT ENTRANCES SHALL BE FINISHED WITH 70 mm HL3 ON A MINIMUM 150 mm GRANULAR A.
16. TERMINATE CONCRETE CURB AS PER OPSD 608.010 THROUGHOUT.
17. INSTALL TACTILE WALKING SURFACE INDICATOR AS PER COK STANDARD DETAIL CK-2016-TWSI AT APPROACHES AND CROSSINGS.
18. 150 mm CONCRETE SIDEWALK AT ALL APPROACHES AND CROSSINGS TO ALLOW FOR TACTILE WALKING SURFACE INDICATORS.
19. ADD 300.000 m TO ABBREVIATED ELEVATIONS TO OBTAIN GEODETIC ELEVATIONS.



PLAN

SCALE: 1:250

0 5 10 15m

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

\\cn0045-spfs01\shared_projects\113708672\0300_drawing\0302_sheet_files\V02_civil\108672c-005.dwg C-005 Lakeview PP1
2026/02/26 10:46 AM By: Lorie Dove

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Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	33.333
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-005		DML	MEE	GFC 2025.12.19
		Dwn.	Chkd.	Dsgn. YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER
M. E. EDGAR
100210694
FEB 26, 2026
PROVINCE OF ONTARIO

Client/Project

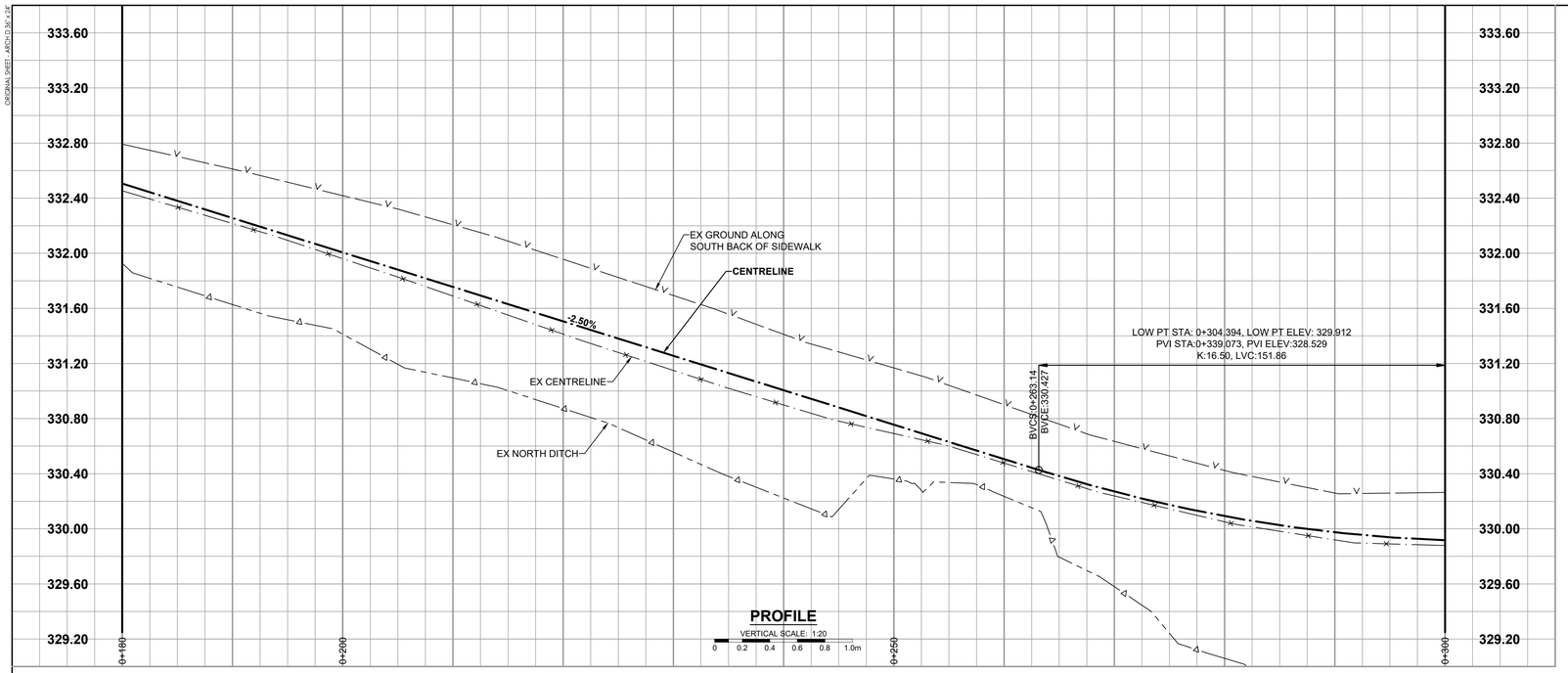
CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

Title

LAKEVIEW DRIVE
PLAN & PROFILE
WEST LIMIT TO STA 0+180

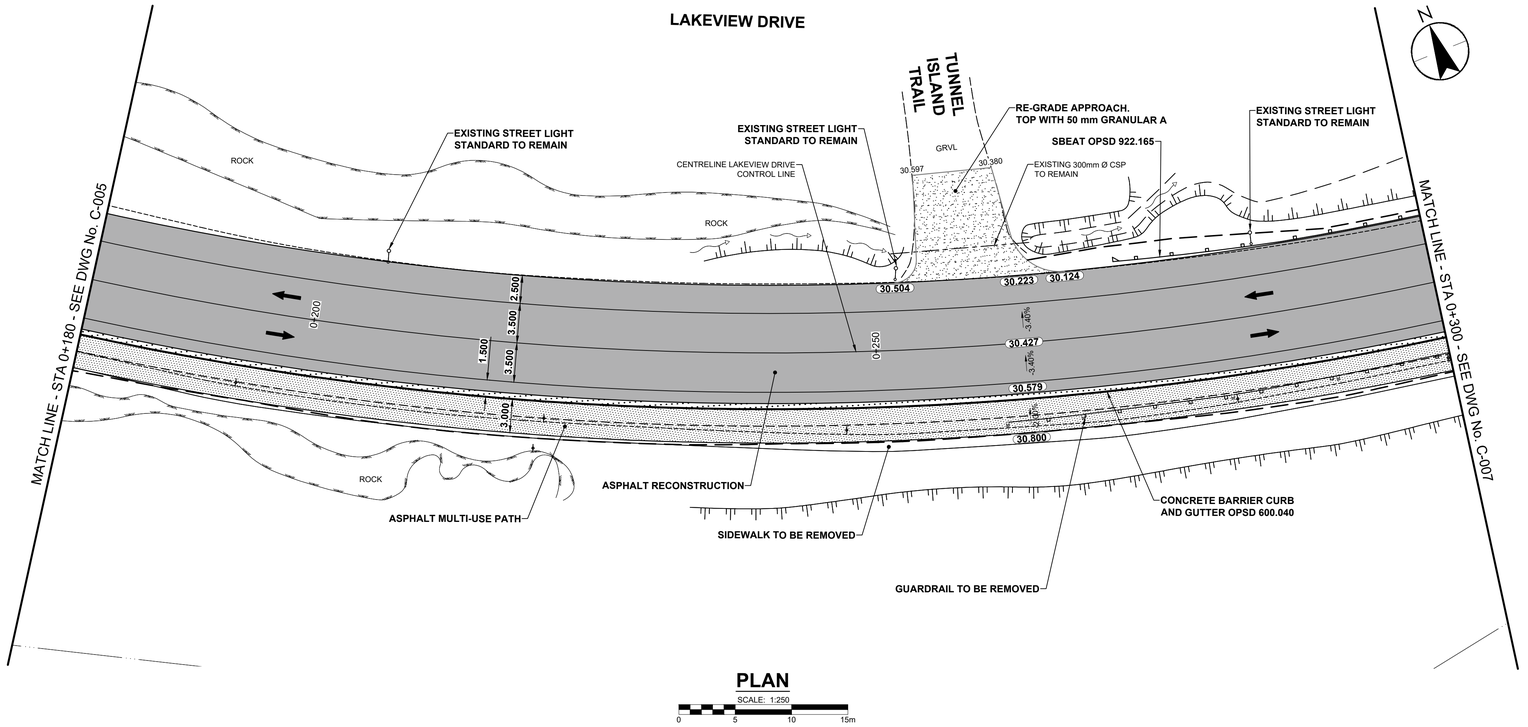
Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-005	5 of 35	0



PROFILE

VERTICAL SCALE: 1:20

0 0.2 0.4 0.6 0.8 1.0m



PLAN

SCALE: 1:250

0 5 10 15m

NOTES

1. REMOVED & REPLACED EXISTING MANHOLE FRAME AND COVERS TO BE SALVAGED AND TAKEN TO CITY OPERATIONS YARD. ADJUST TO NEW GRADES.
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19. ADD 300.000 m TO ABBREVIATED ELEVATIONS TO OBTAIN GEODETIC ELEVATIONS.

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

Stantec

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Suite 500, 311 Portage Avenue
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KEY PLAN



Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	33.333
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-006		DML	MEE	GFC 2026.02.25
		Dwn.	Chkd.	Dsgn. YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER M. E. EDGAR 100216594 FEB 26, 2026 PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

Title

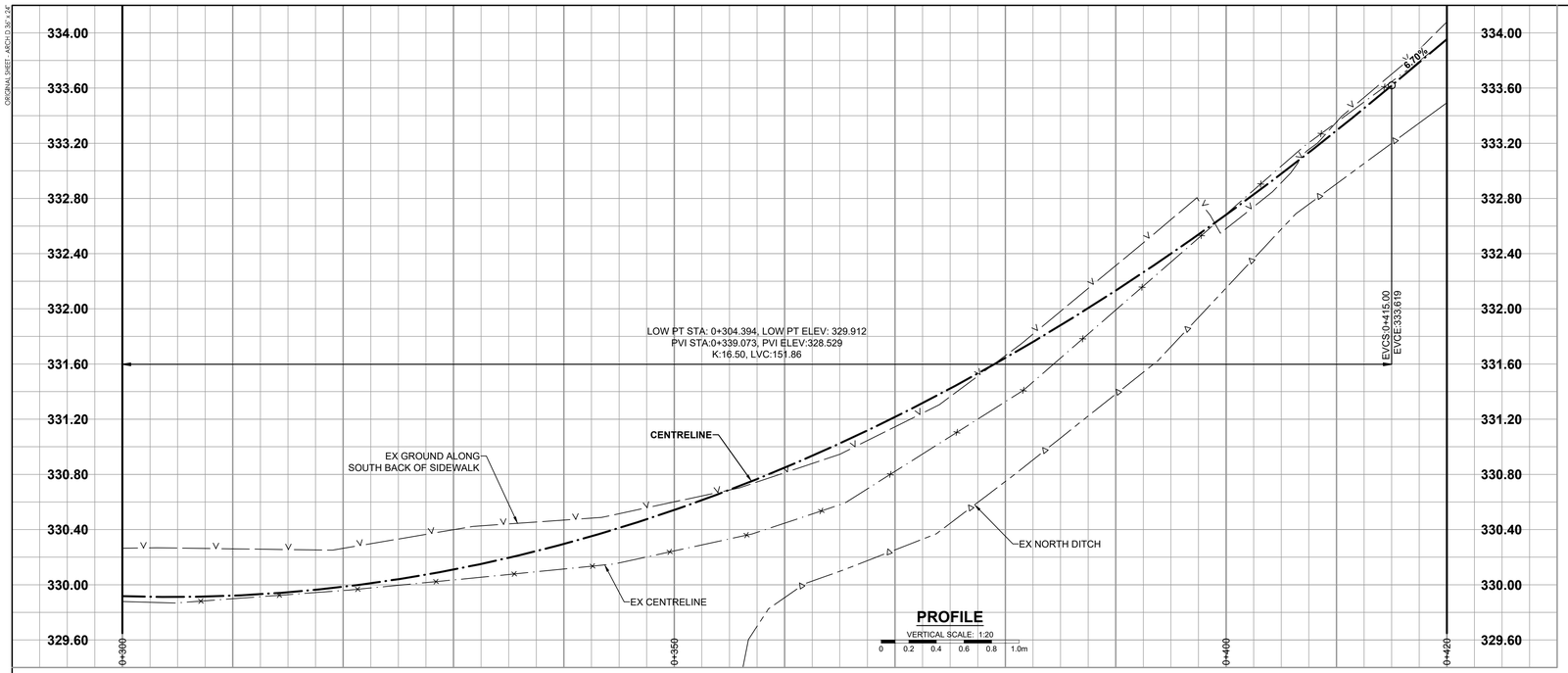
LAKEVIEW DRIVE
PLAN & PROFILE
STA 0+180 TO STA 0+300

Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-006	6 of 35	0

ORIGINAL SHEET - ARCH D 36" x 24"

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2026/02/26 10:46 AM By: Lane, Dave

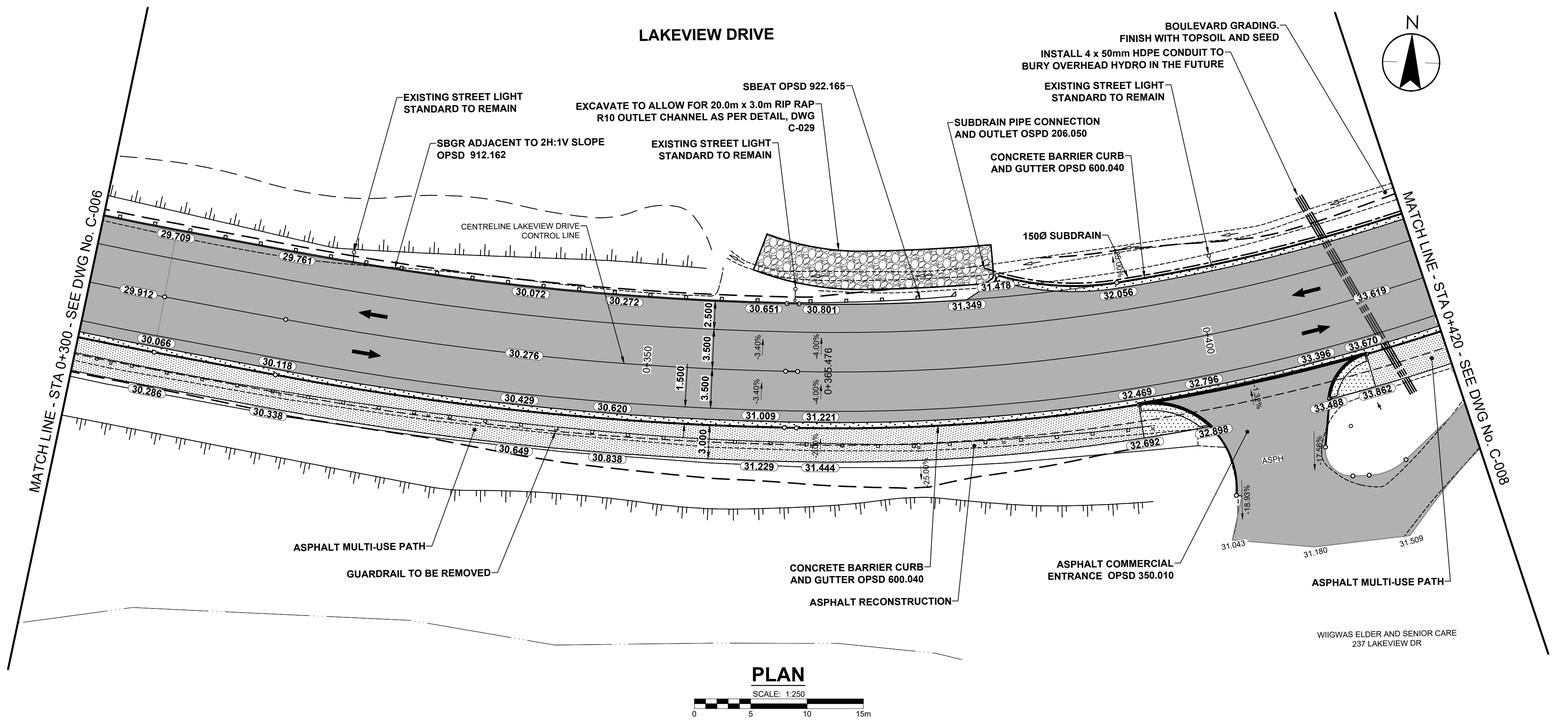
ORIGINAL SHEET - ARCH D 36" x 24"



PROFILE

VERTICAL SCALE: 1:20

0 0.2 0.4 0.6 0.8 1.0m



PLAN

SCALE: 1:250

0 5 10 15m

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

\\cc0045-pcfs01\Vshared_projects\113708672\0300_drawing\03i02_sheet_files\102_civil\08672c-007.dwg C-007 Lakeview PP3
2026/02/26 10:46 AM By: Lane, Dave

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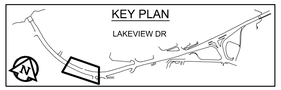
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KEY PLAN



Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	(33.333)
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-007		DML	MEE	GFC	2025.12.19
		Dwn.	Chkd.	Dsgn.	YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER
M. E. EDGAR
100216694
FEB 26, 2026
PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

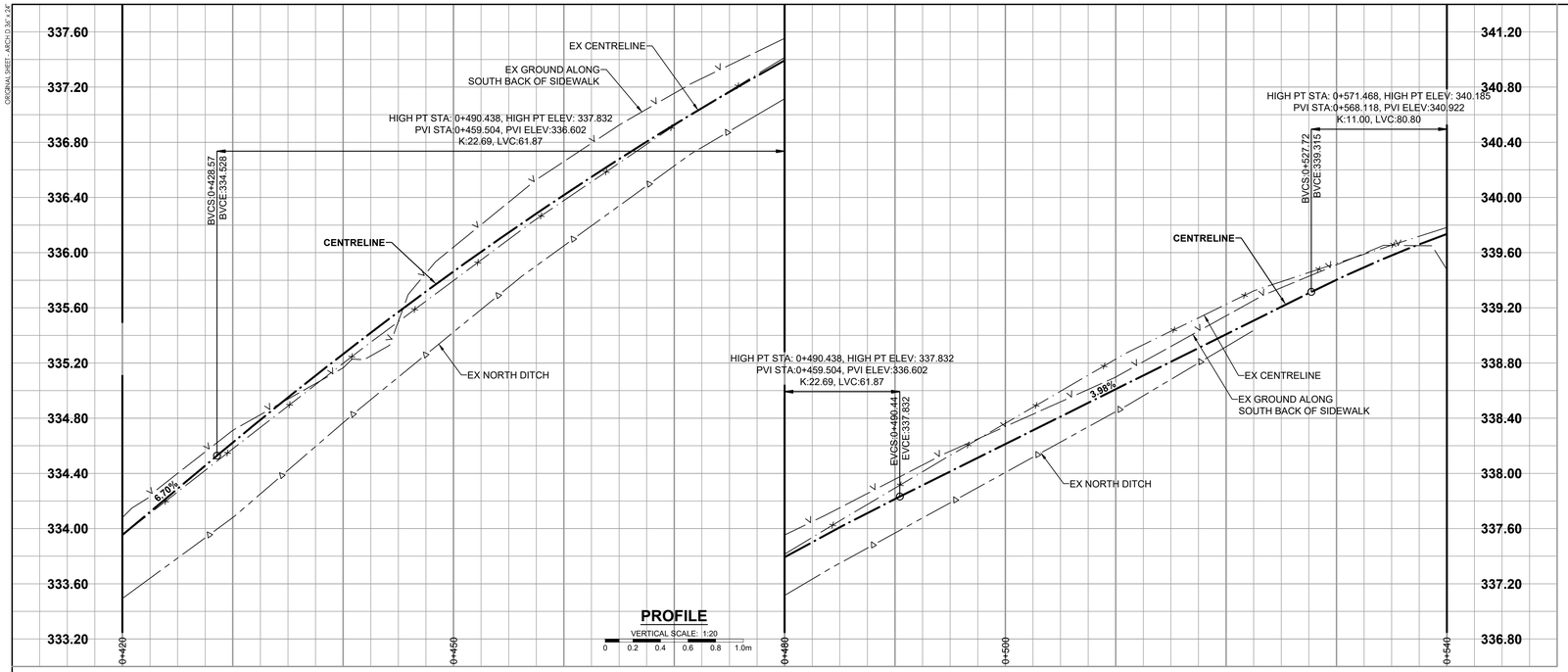
2026 MUNICIPAL PAVING PROGRAM

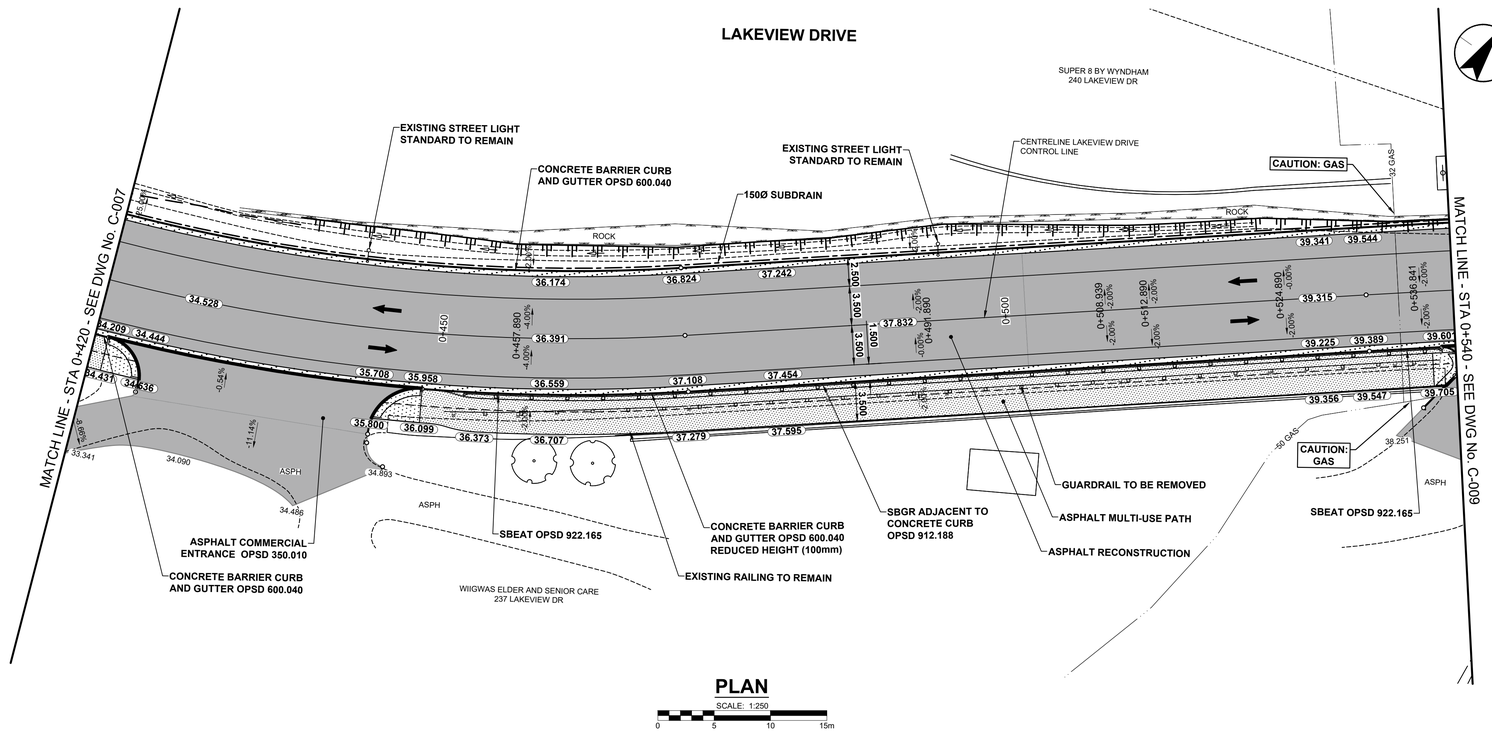
Title

LAKEVIEW DRIVE
PLAN & PROFILE
STA 0+300 TO STA 0+420

Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-007	7 of 35	0

ORIGINAL SHEET - ARCH D (30" x 24")





METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

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KEY PLAN



Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	33.333
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-008		DML	MEE	GFC 2025.12.19
		Dwn.	Chkd.	Dsgn. YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER
M. E. EDGAR
100210694
FEB 26, 2026
PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

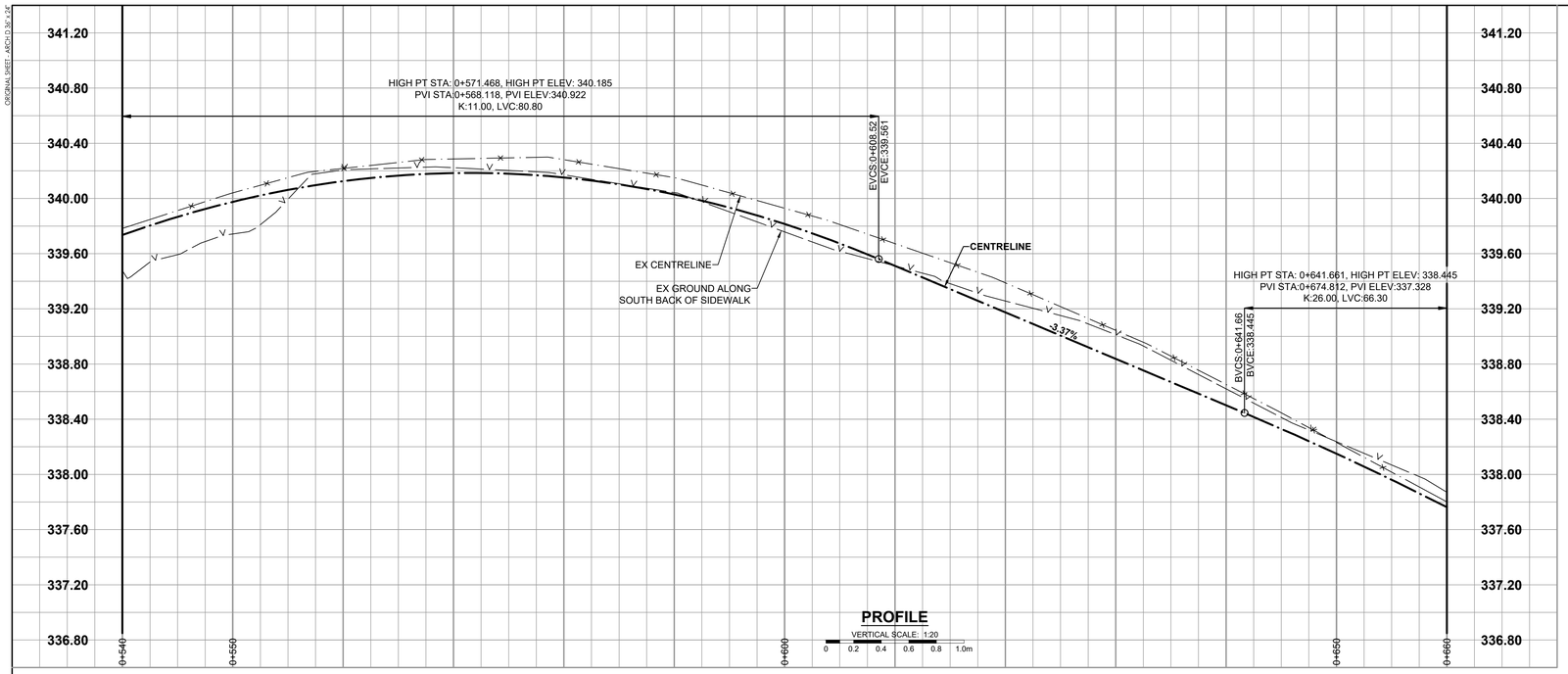
2026 MUNICIPAL PAVING PROGRAM

Title

LAKEVIEW DRIVE
PLAN & PROFILE
STA 0+420 TO STA 0+540

Project No.	Scale	
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Drawing No.	Sheet	Revision
C-008	8 of 35	0

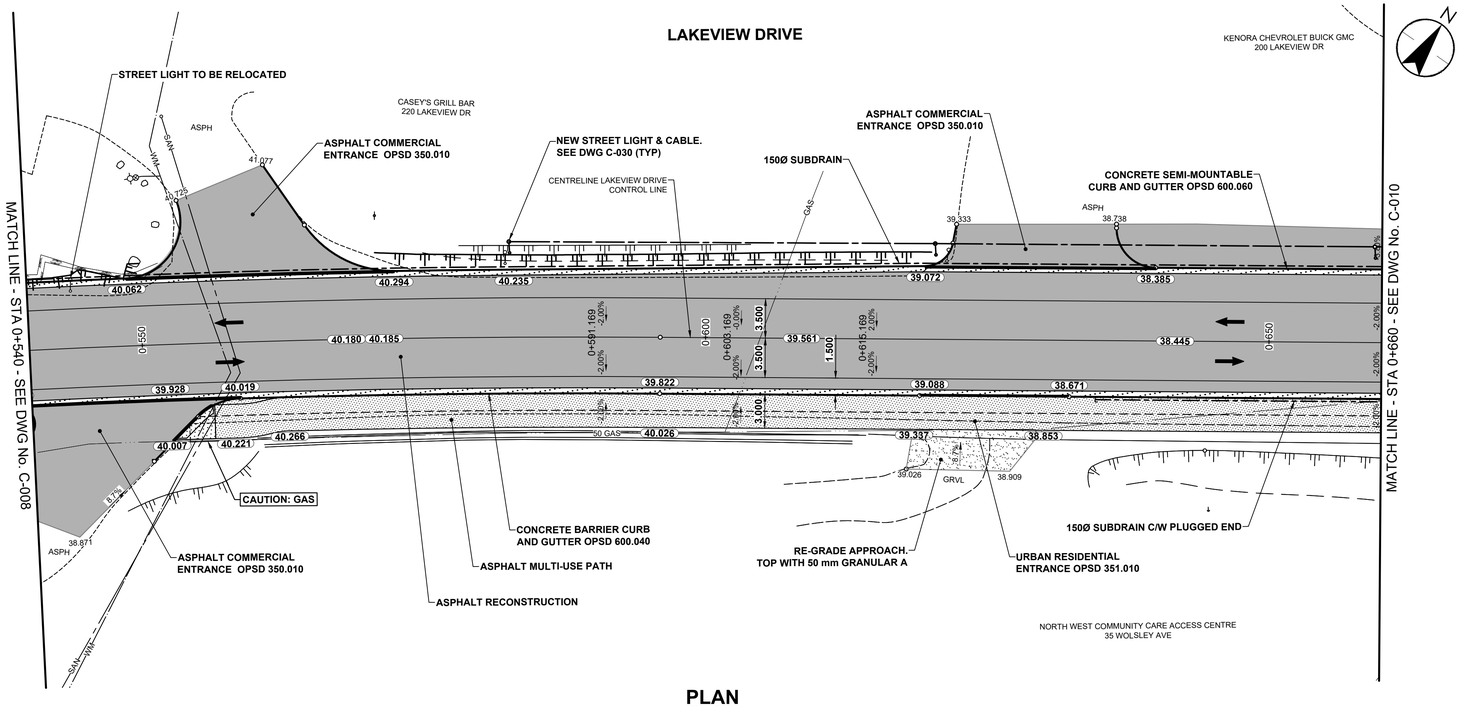
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2026/02/26 10:45 AM By: Lorie, Dove



PROFILE

VERTICAL SCALE: 1:20

0 0.2 0.4 0.6 0.8 1.0m



PLAN

SCALE: 1:250

0 5 10 15m

METRIC

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	CURB INLET	▲
	POLE	
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	TRAFFIC SIGNAL POLE	
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0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-009		DML	MEE	GFC	2025.12.19
		Dwn.	Chkd.	Dsgn.	YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal



Client/Project

CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

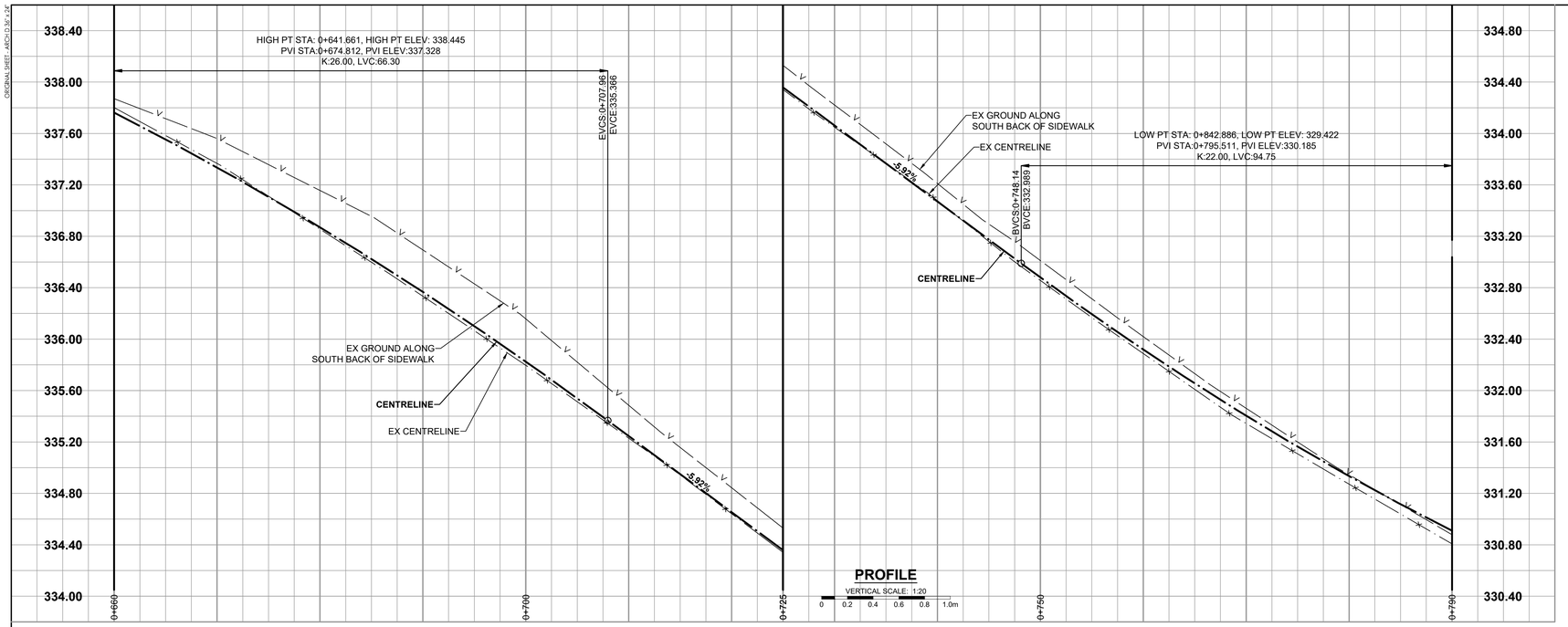
Title

LAKEVIEW DRIVE
PLAN & PROFILE
STA 0+540 TO STA 0+660

Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-009	9 of 35	0

ORIGINAL SHEET - ARCH D (36" x 24")

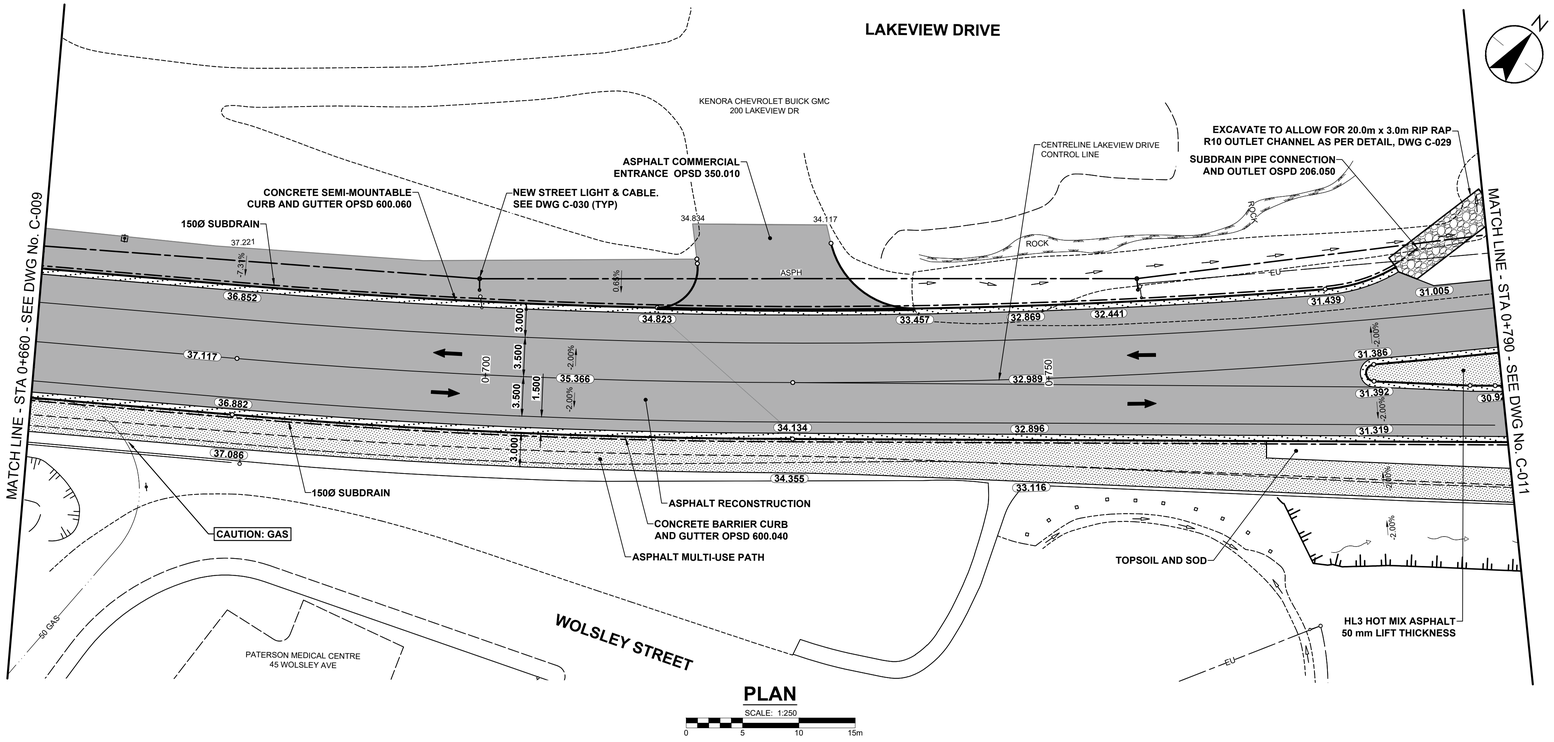
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2026/02/26 10:46 AM By: Lane, Dave



PROFILE

VERTICAL SCALE: 1:20

0 0.2 0.4 0.6 0.8 1.0m



PLAN

SCALE: 1:250

0 5 10 15m

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12. ALL CATCH BASINS AND CATCH BASIN MAINTENANCE HOLES ARE TO HAVE SUMPS OF 0.6 m BELOW THE LOWEST PIPE INVERT CONNECTED TO EACH INDIVIDUAL STRUCTURE UNLESS NOT POSSIBLE DUE TO BEDROCK OR OTHER CONFLICTS.
13. CONTRACTOR SHALL VERIFY ALL PIPE INVERTS IN THE FIELD.
14. REMOVALS NOT SHOWN FOR CLARITY.
15. ASPHALT ENTRANCES SHALL BE FINISHED WITH 70 mm HL3 ON A MINIMUM 150 mm GRANULAR A.
16. TERMINATE CONCRETE CURB AS PER OPSD 608.010 THROUGHOUT.
17. INSTALL TACTILE WALKING SURFACE INDICATOR AS PER COK STANDARD DETAIL CK-2016-TWSI AT APPROACHES AND CROSSINGS.
18. 150 mm CONCRETE SIDEWALK AT ALL APPROACHES AND CROSSINGS TO ALLOW FOR TACTILE WALKING SURFACE INDICATORS.
19. ADD 300.000 m TO ABBREVIATED ELEVATIONS TO OBTAIN GEODETIC ELEVATIONS.

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

Stantec

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KEY PLAN



Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	(33.333)
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-010		DML	MEE	GFC	2025.12.19
		Dwn.	Chkd.	Dsgn.	YYYY.MM.DD

Client Logo

Lake of the Woods
KENORA

Seal



Client/Project

CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

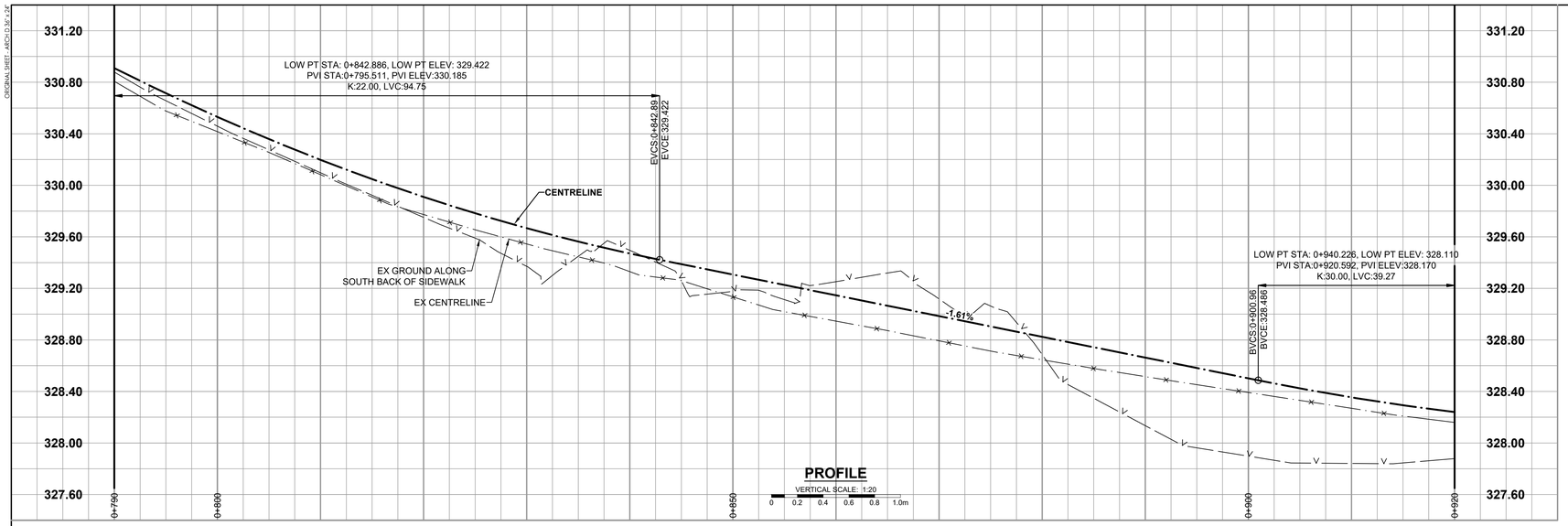
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LAKEVIEW DRIVE
PLAN & PROFILE
STA 0+790 TO STA 0+920

Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-010	10 of 35	0

ORIGINAL SHEET - ARCH D (36" x 24")

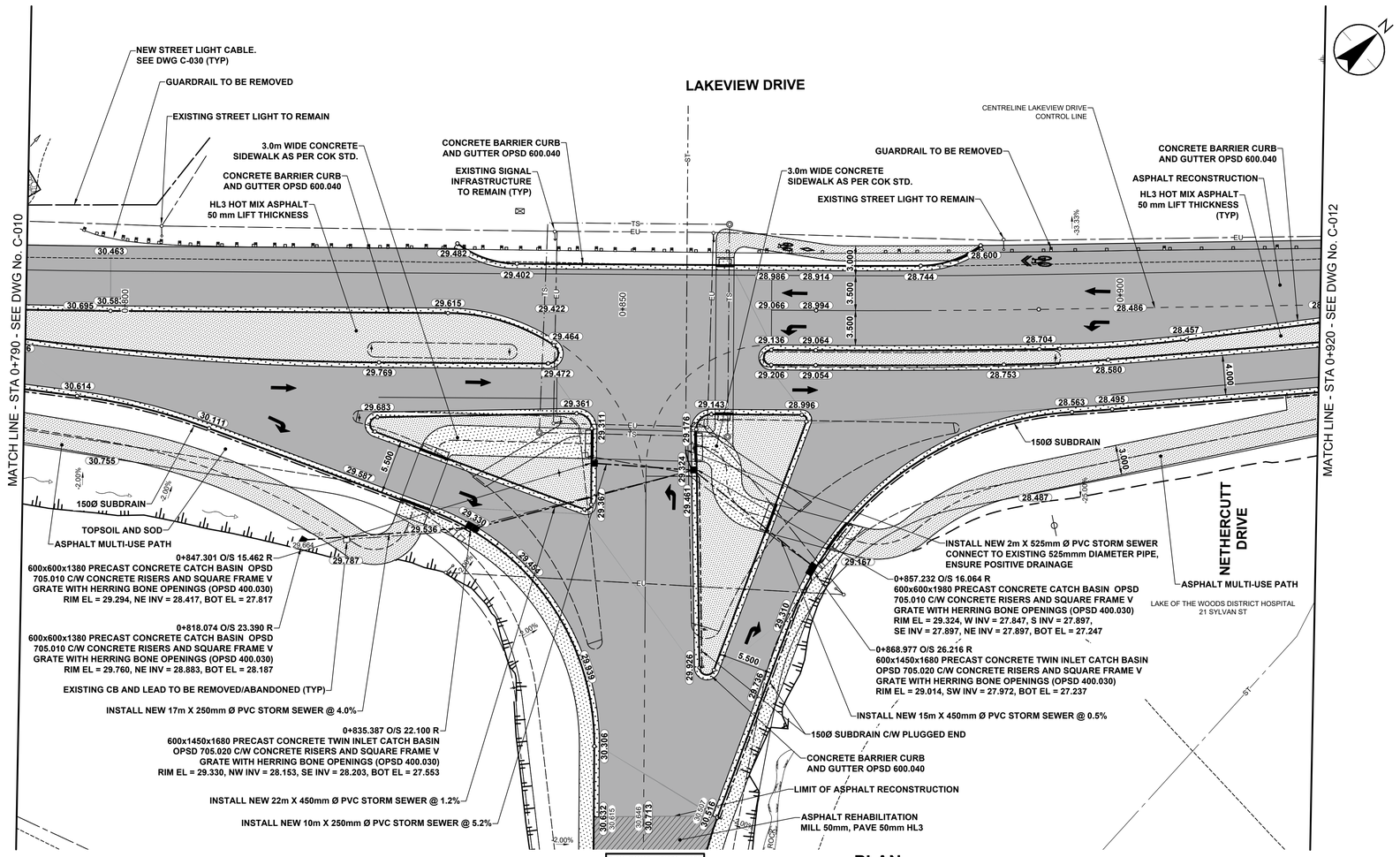
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2026/02/26 10:45 AM By: Lane, Dave



PROFILE

VERTICAL SCALE: 1:20

0 0.2 0.4 0.6 0.8 1.0m



PLAN

SCALE: 1:250

0 5 10 15m

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

NOTES

1. REMOVED & REPLACED EXISTING MANHOLE FRAME AND COVERS TO BE SALVAGED AND TAKEN TO CITY OPERATIONS YARD. ADJUST TO NEW GRADES.
2. REFER TO TENDER FOR DETAILS REGARDING TRAFFIC MANAGEMENT.
3. LAMP STANDARDS, HYDRO POLES, AND ANCHORS THAT REQUIRE TEMPORARY SUPPORT, REMOVAL OR REPLACEMENT, TO BE DONE SO AT THE EXPENSE OF THE CONTRACTOR AS NECESSARY.
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5. CONTRACTOR TO COORDINATE WORK WITH UTILITY PROVIDERS.
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KEY PLAN



Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	(33.333)
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-011		DML	MEE	GFC 2026.02.23
		Dwn.	Chkd.	Dsgn. YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER M. E. EDGAR 100216694 FEB 26, 2026 PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

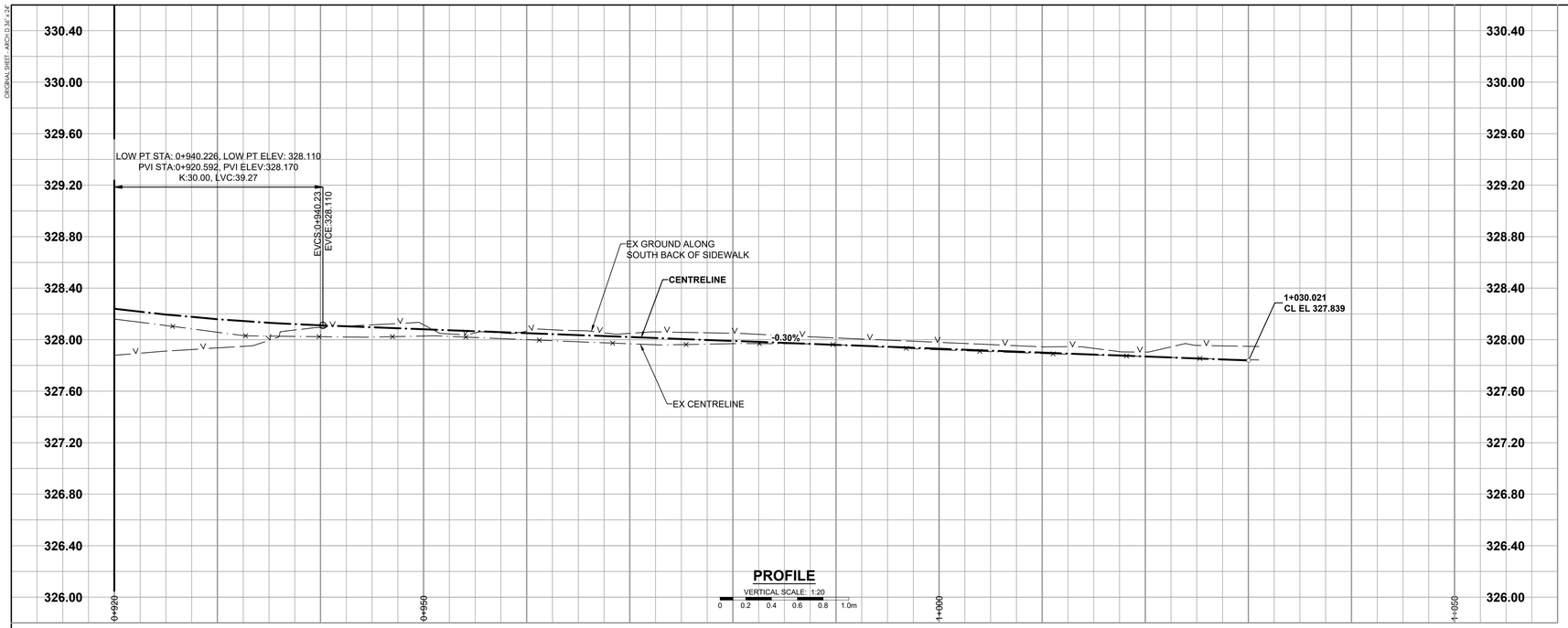
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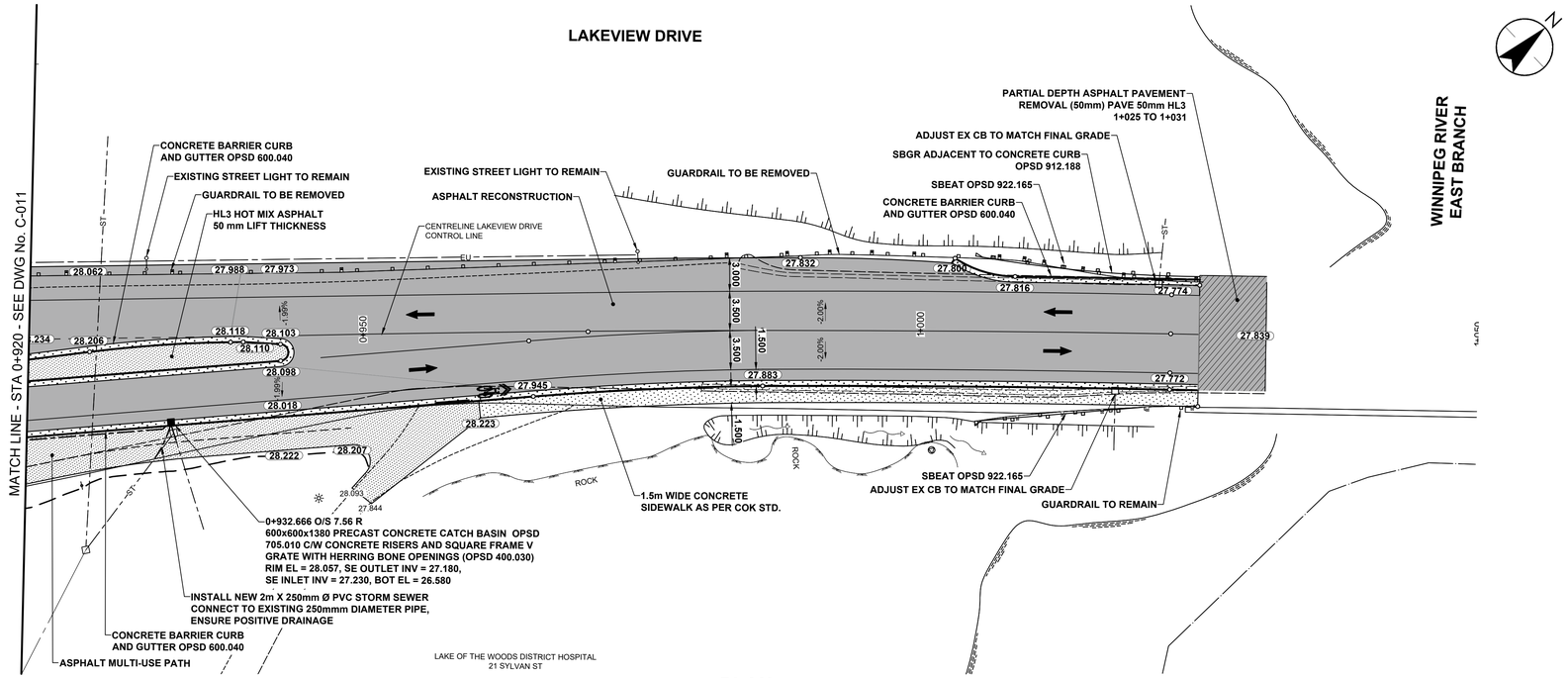
LAKEVIEW DRIVE
PLAN & PROFILE
STA 0+790 TO STA 0+920

Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-011	11 of 35	0

ORIGINAL SHEET - ARCH D (36" x 24")

\\cd0045-pcfs01\shared_projects\113708672\0300_drawing\0302_sheet_files\02_civil\08672c-011.dwg C-011 Lakeview PP7
2026/02/26 10:46 AM By: Lane, Dove





NOTES

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METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

Stantec

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KEY PLAN



Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	33.333
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-012		DML	MEE	GFC	2025.12.19
		Dwn.	Chkd.	Dsgn.	YYYY.MM.DD

Client Logo

Lake of the Woods
KENORA

Seal



Client/Project

CITY OF KENORA

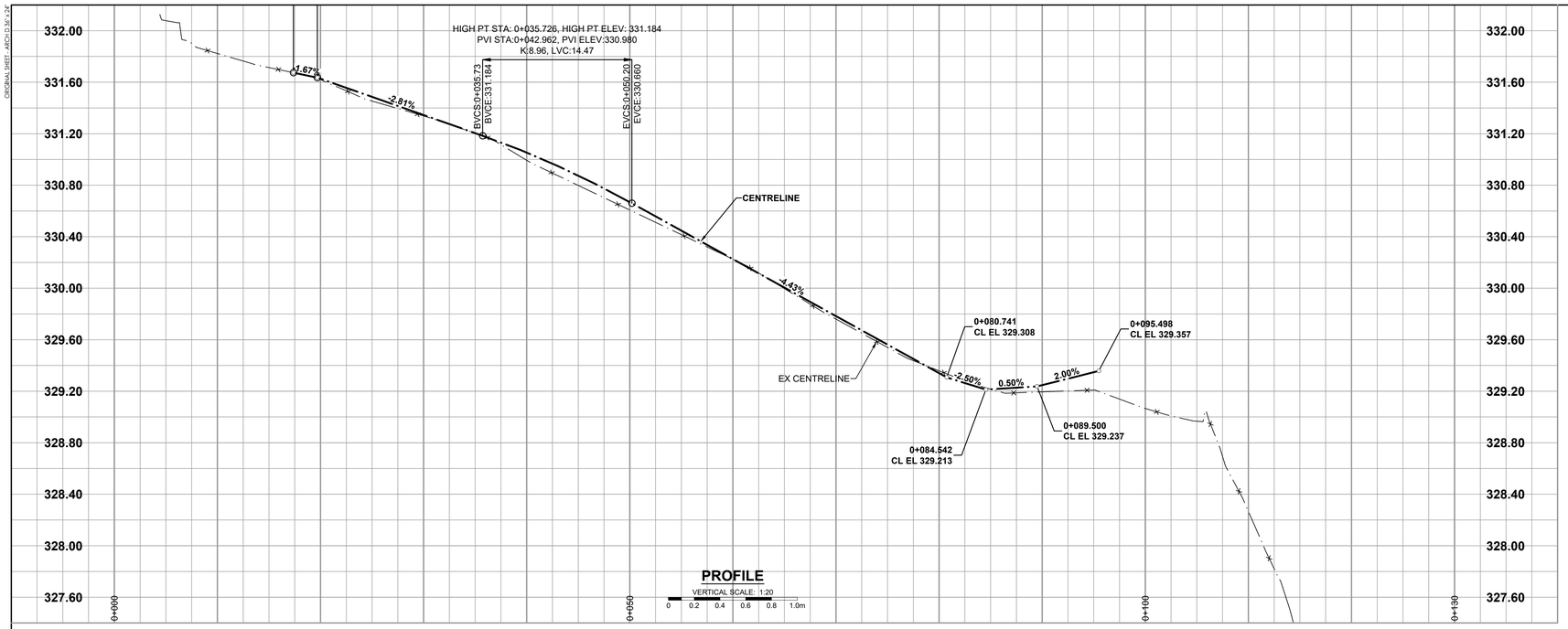
2026 MUNICIPAL PAVING PROGRAM

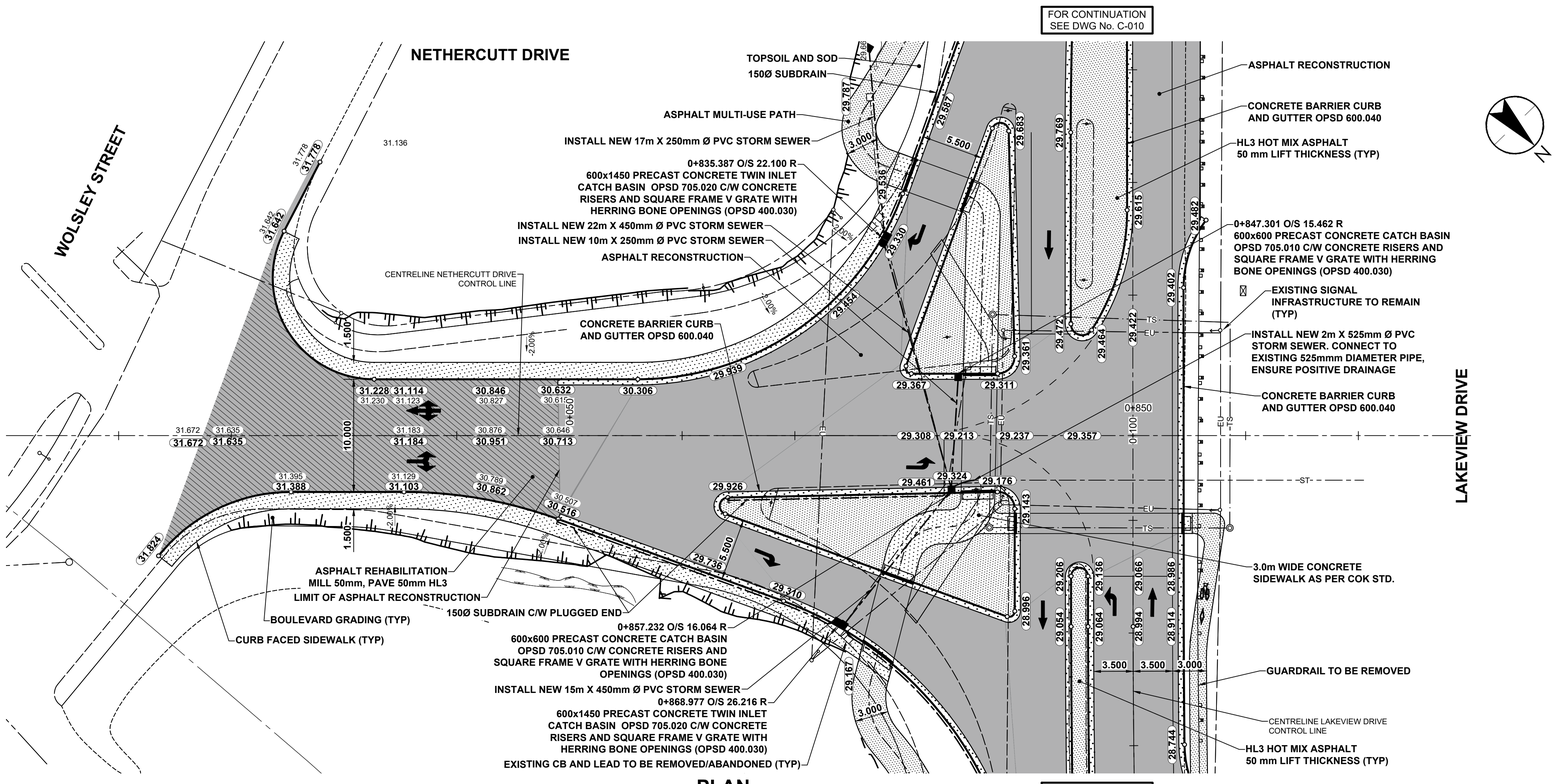
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LAKEVIEW DRIVE
PLAN & PROFILE
STA 0+920 TO EAST LIMIT

Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-012	12 of 35	0

ORIGINAL SHEET - ARCH D 36" x 24"
\\cd0045-pcfs01\Vshared_projects\113708672\0300_drawing\03i02_sheet_files\02_civil\08672c-012.dwg C-012 Lakeview PPB
2026/02/26 10:45 AM By: Lane, Dave





NOTES

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METRIC
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DECIMALIZED NUMBERS INDICATE METRES

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Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	33.333
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
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	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD

File Name: 08672c-013 | DML Dwn. | MEE Chkd. | GFC Dsgn. | 2026.02.23 YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER
M. E. EDGAR
100216694
FEB 26, 2026
PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

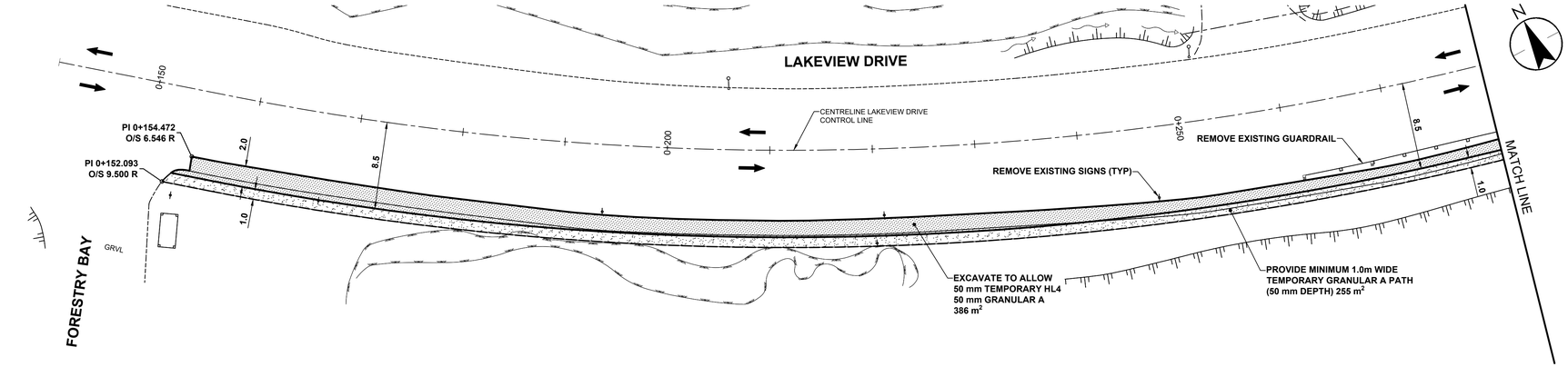
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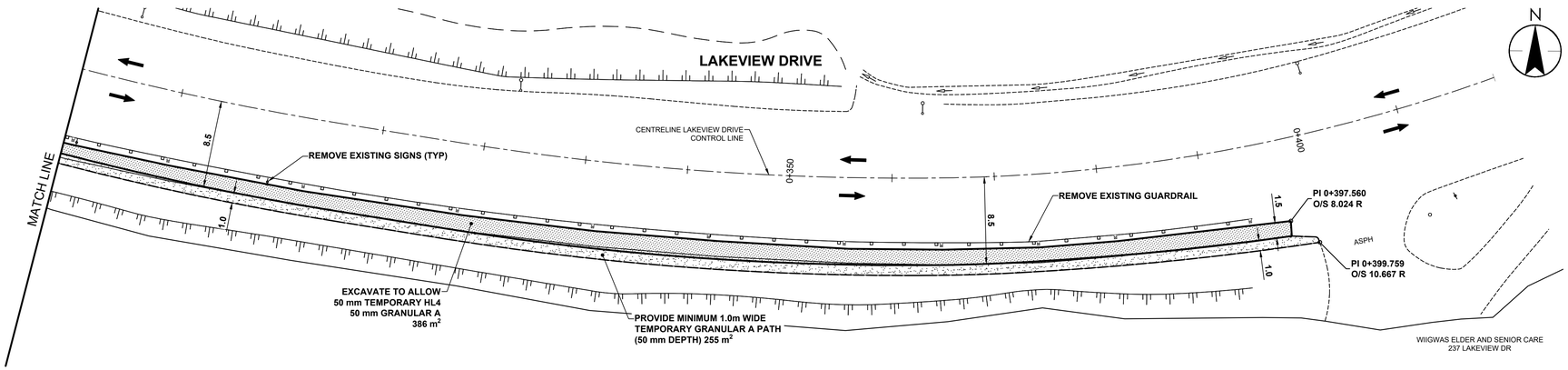
NETHERCUTT DRIVE
PLAN & PROFILE
WOLSLEY STREET TO LAKEVIEW DRIVE

Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-013	13 of 35	0

ORIGINAL SHEET - ARCH D (36" x 24")

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2026/02/26 10:46 AM By: Lorie, Dave



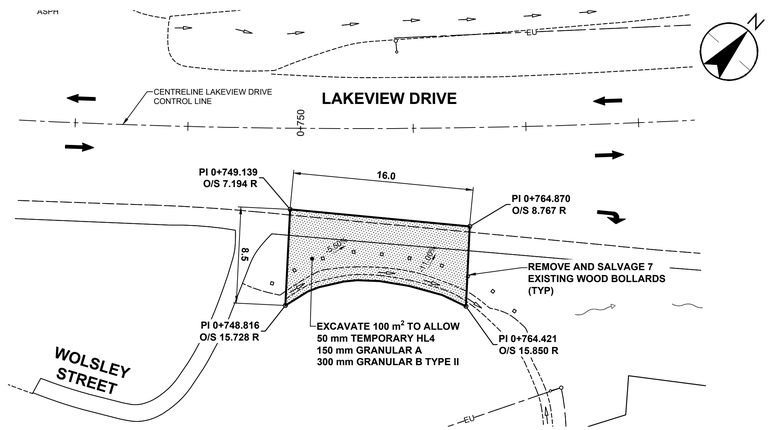


TEMPORARY PAVEMENT - ROAD WIDENING

SCALE: 1:250

0 5 10 15m

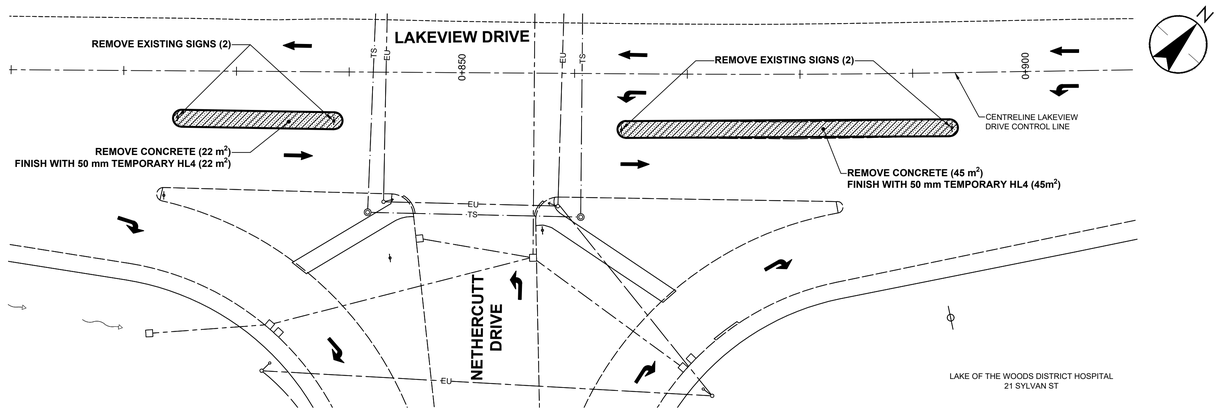
THIS DRAWING TO BE READ IN CONJUNCTION WITH CONSTRUCTION STAGING PLANS FOR LAKEVIEW DRIVE TO ACCOMMODATE STAGE 2 TRAFFIC



TEMPORARY PAVEMENT - HOSPITAL ACCESS ROAD

SCALE: 1:250

0 5 10 15m



EXISTING RAISED MEDIAN REMOVAL

SCALE: 1:250

0 5 10 15m

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

ORIGINAL SHEET - ARCH D 36" x 24"

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2026/02/24 10:46 AM By: Lane, Dove

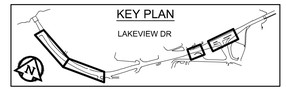
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KEY PLAN



Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
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	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-014		DML	MEE	GFC	2026.02.21
		Dwn.	Chkd.	Dsgn.	YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER
M. E. EDGAR
100210594
FEB 26, 2026
PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

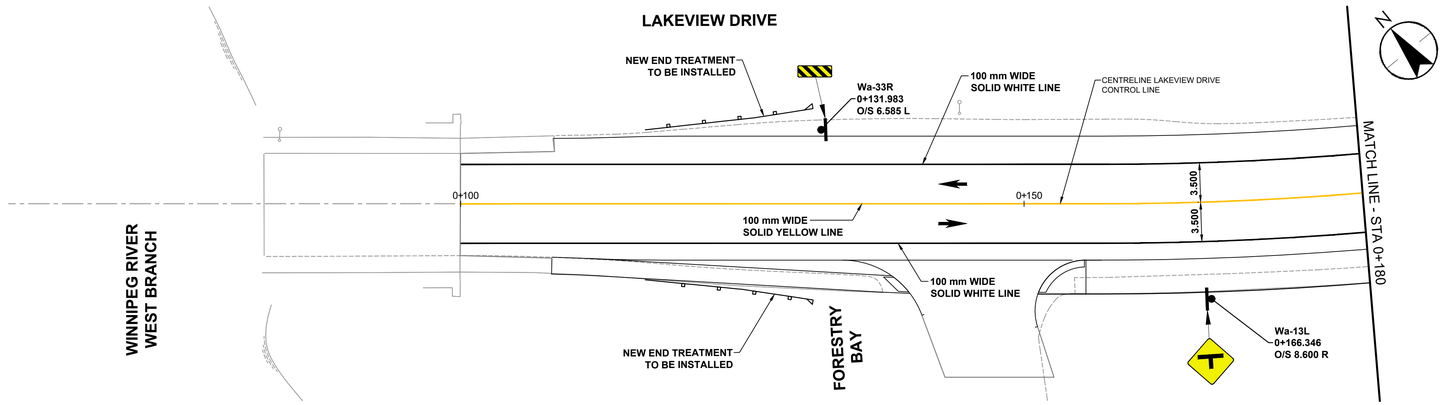
2026 MUNICIPAL PAVING PROGRAM

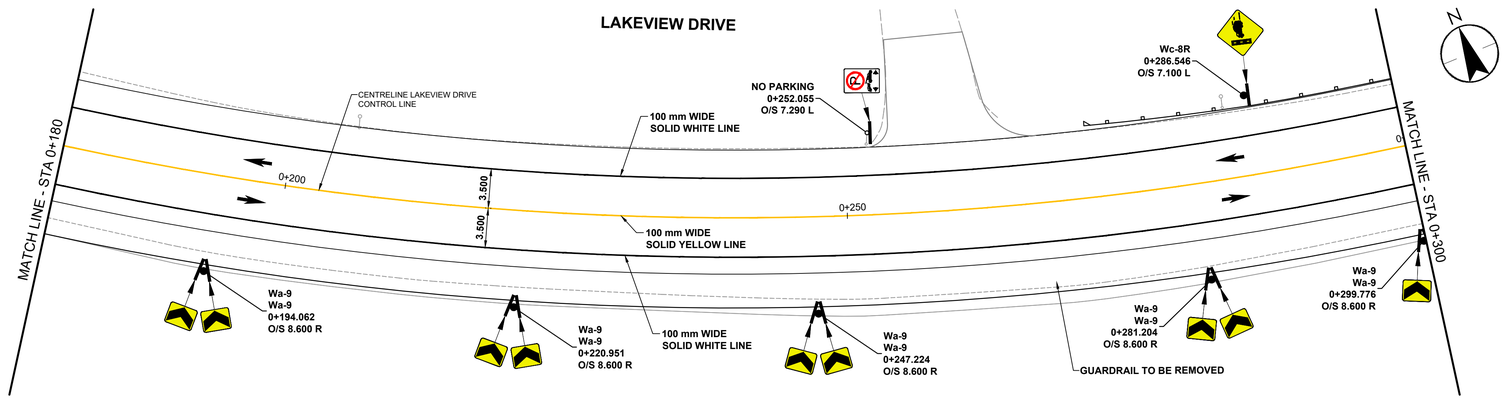
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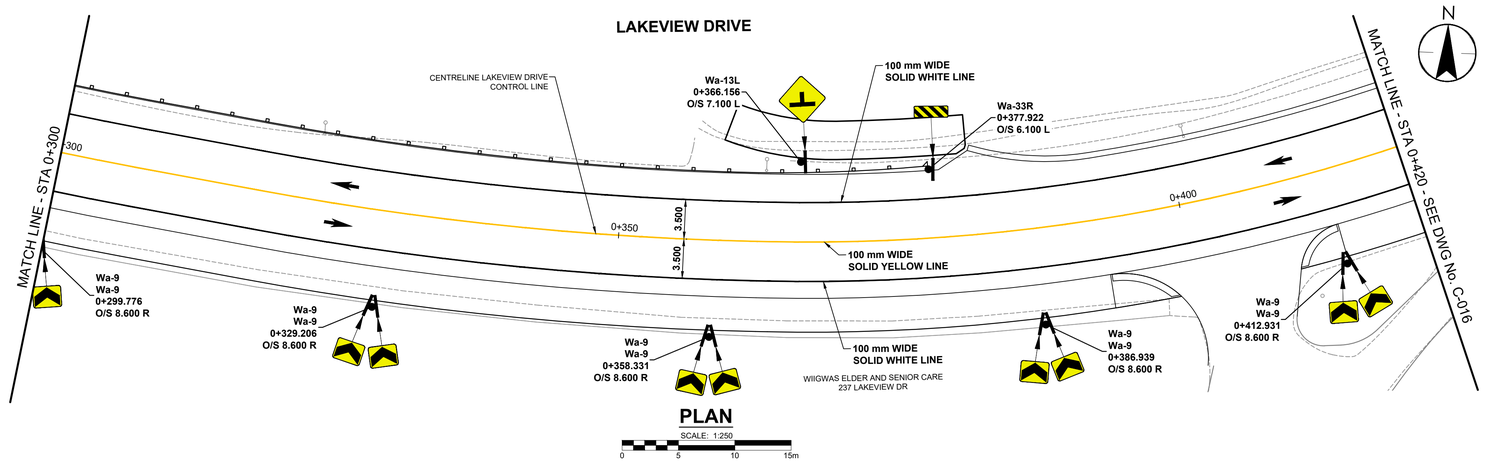
LAKEVIEW DRIVE
PLAN
TEMPORARY PAVEMENT

Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-014	14 of 35	0

ORIGINAL SHEET - ARCH D 36" x 24"







PLAN

SCALE: 1:250

0 5 10 15m

LEGEND

Wa-13L	HIDDEN INTERSECTION	Wa-33LR	OBJECT MARKER (BOTH DIRECTIONS)
Wc-8R	TRUCK ENTRANCE	Wa-33L	OBJECT MARKER (LEFT VERSION)
WC-19	SHARE THE ROAD	Wa-33R	OBJECT MARKER (RIGHT VERSION)
RB-84A	RESERVED BICYCLE LANE	Wa-9	CHEVRON ALIGNMENT
Rb-25R	KEEP RIGHT	NO PARK	NO PARKING TOW AWAY
MAXIMUM 50 km/h Rb-1A	MAXIMUM SPEED 50 km/h	SHARED PATHWAY Rb-71	SHARED PATHWAY
STOP HERE ON RED SIGNAL Rb-78	STOP HERE	M401	HOSPITAL
THROUGH TRAFFIC KEEP RIGHT Rb-27	THROUGH TRAFFIC KEEP RIGHT	KEEP RIGHT Rb-25T	KEEP RIGHT
Rb-19	DO NOT ENTER	M301	RIGHT ARROW
DO NOT ENTER Rb-19t	DO NOT ENTER TAB	Ra-2	YIELD
YIELD Ra-2t	YIELD TAB		

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

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KEY PLAN



Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	33.333
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-015		DML	MEE	GFC 2026.01.29
		Dwn.	Chkd.	Dsgn. YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER M. E. EDGAR 100210694 FEB 26, 2026 PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

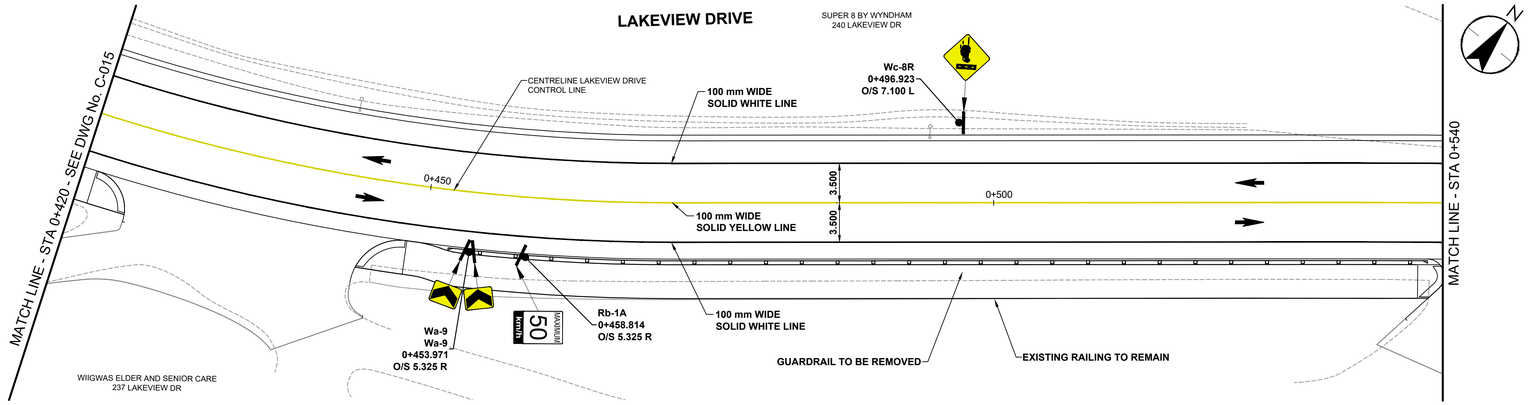
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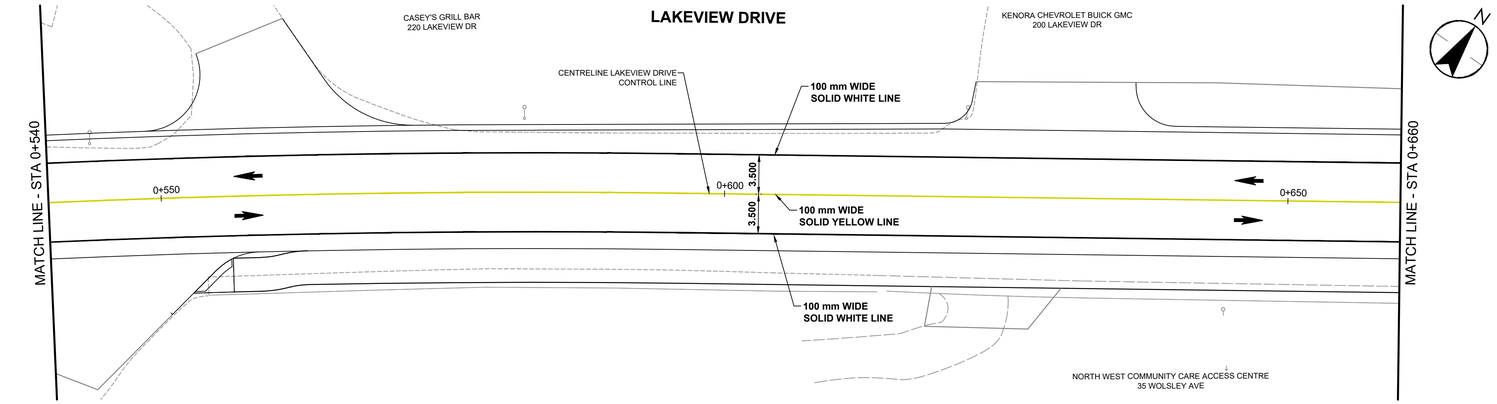
LAKEVIEW DRIVE
PAINT MARKINGS AND SIGNAGE
WEST LIMIT TO STA 0+420

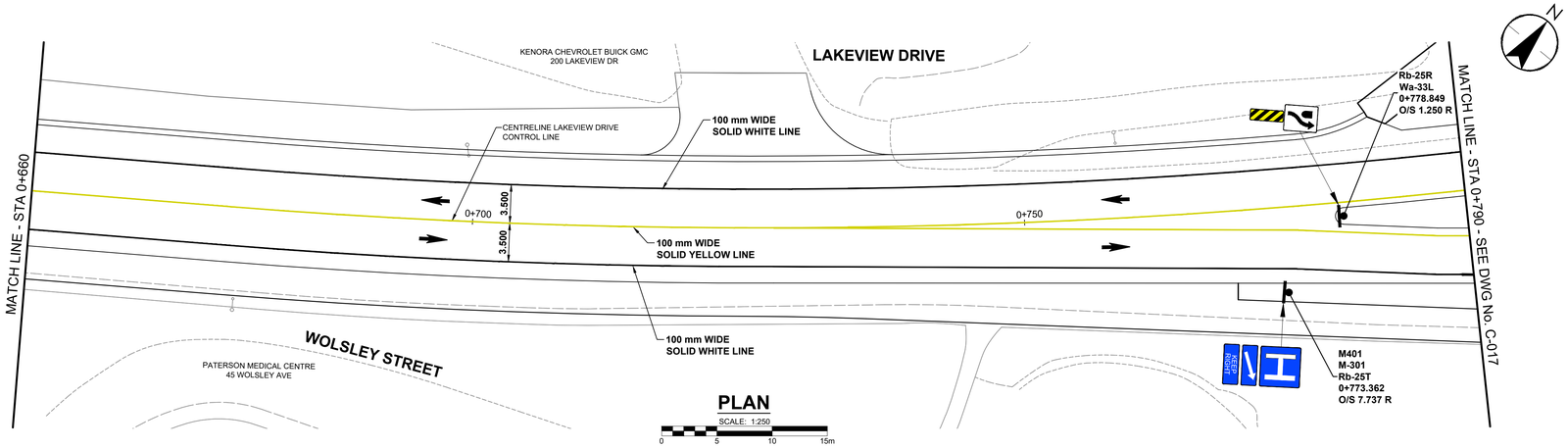
Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-015	15 of 35	0

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2026/02/24 10:45 AM By: Lane, Dave

ORIGINAL SHEET - ARCH D 36" x 24"







PLAN

SCALE: 1:250

0 5 10 15m

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

\\cn0045-spfs01\shared_projects\113708672\0300_drawing\0302_sheet_files\02_civil\08672c-016.dwg C-016 Lakeview point and signs 2
2026/02/26 10:45 AM By: Lane, Dave

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KEY PLAN



Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	(33.333)
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-016		DML	MEE	GFC	2026.01.26
		Dwn.	Chkd.	Dsgn.	YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal



Client/Project

CITY OF KENORA

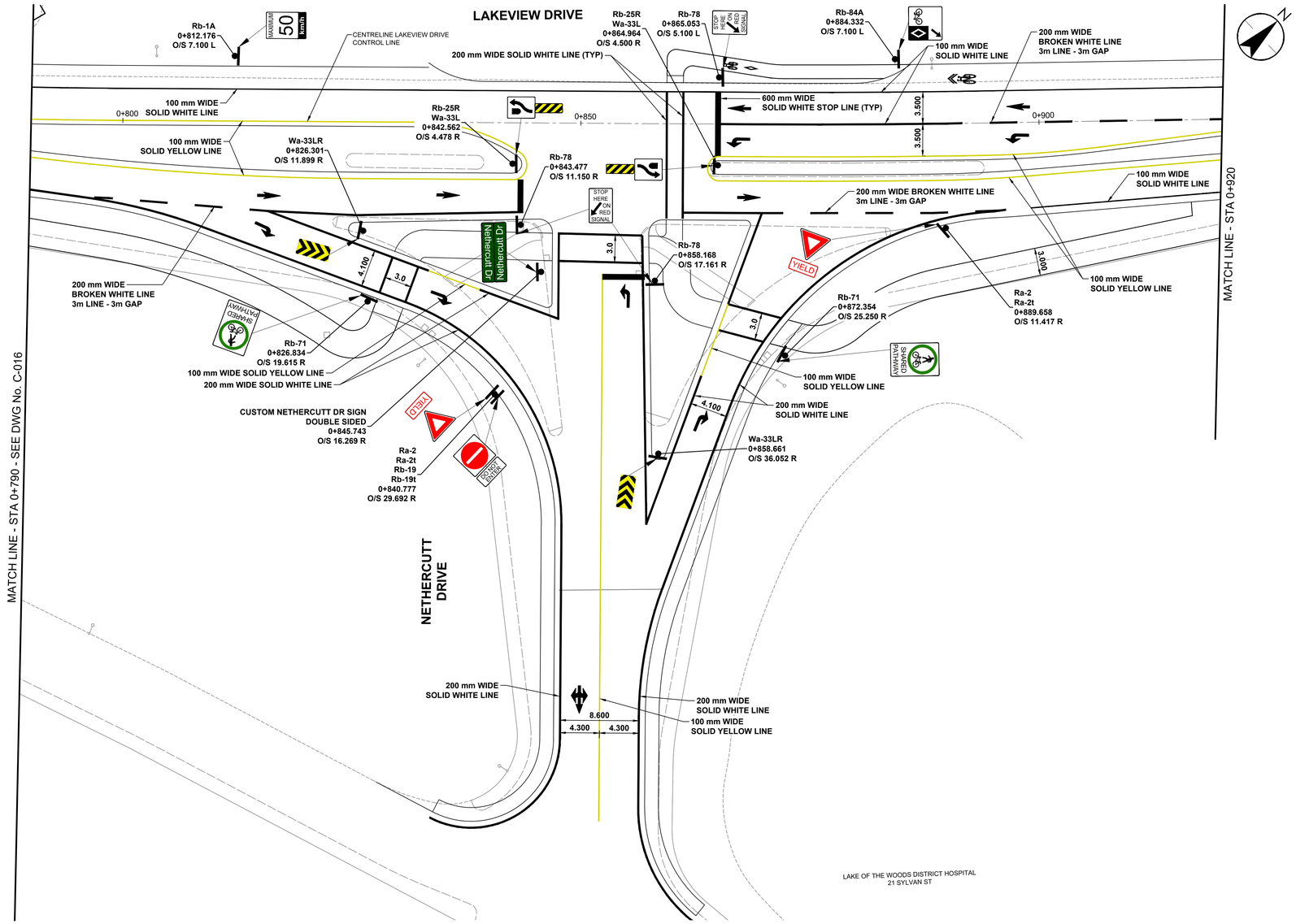
2026 MUNICIPAL PAVING PROGRAM

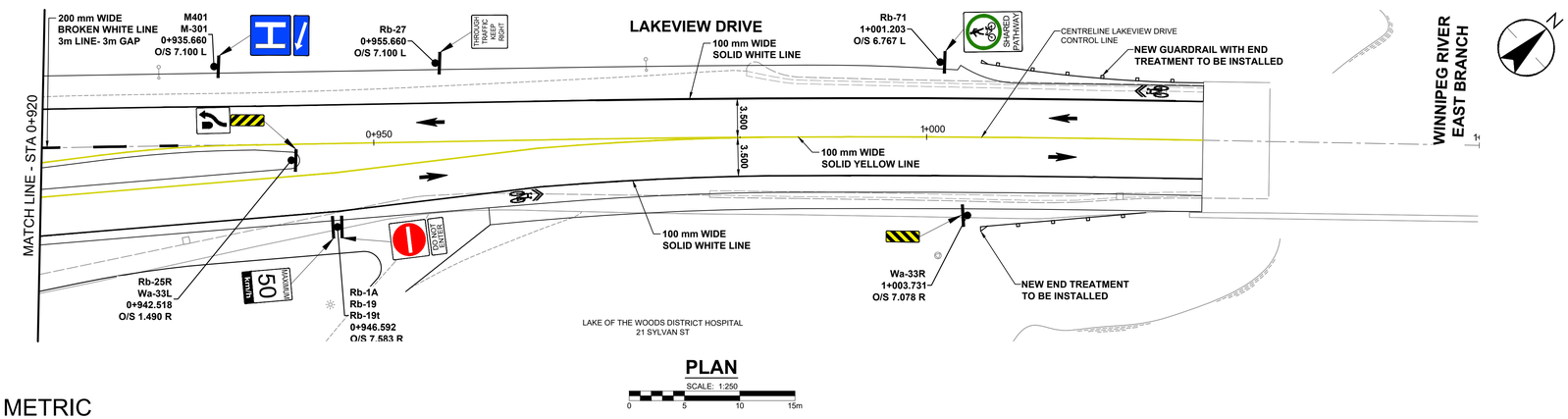
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LAKEVIEW DRIVE
PAINT MARKINGS AND SIGNAGE
STA 0+420 TO STA 0+790

Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-016	16 of 35	0

ORIGINAL SHEET - ARCH D 30" x 24"





PLAN
SCALE: 1:250
0 5 10 15m

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

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2026/02/24 10:46 AM By: Lane, Dove

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KEY PLAN
LAKEVIEW DR

Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	(33.333)
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-017		DML	MEE	GFC	2026.01.26
		Dwn.	Chkd.	Dsgn.	YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER
M. E. EDGAR
100210594
FEB 26, 2026
PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

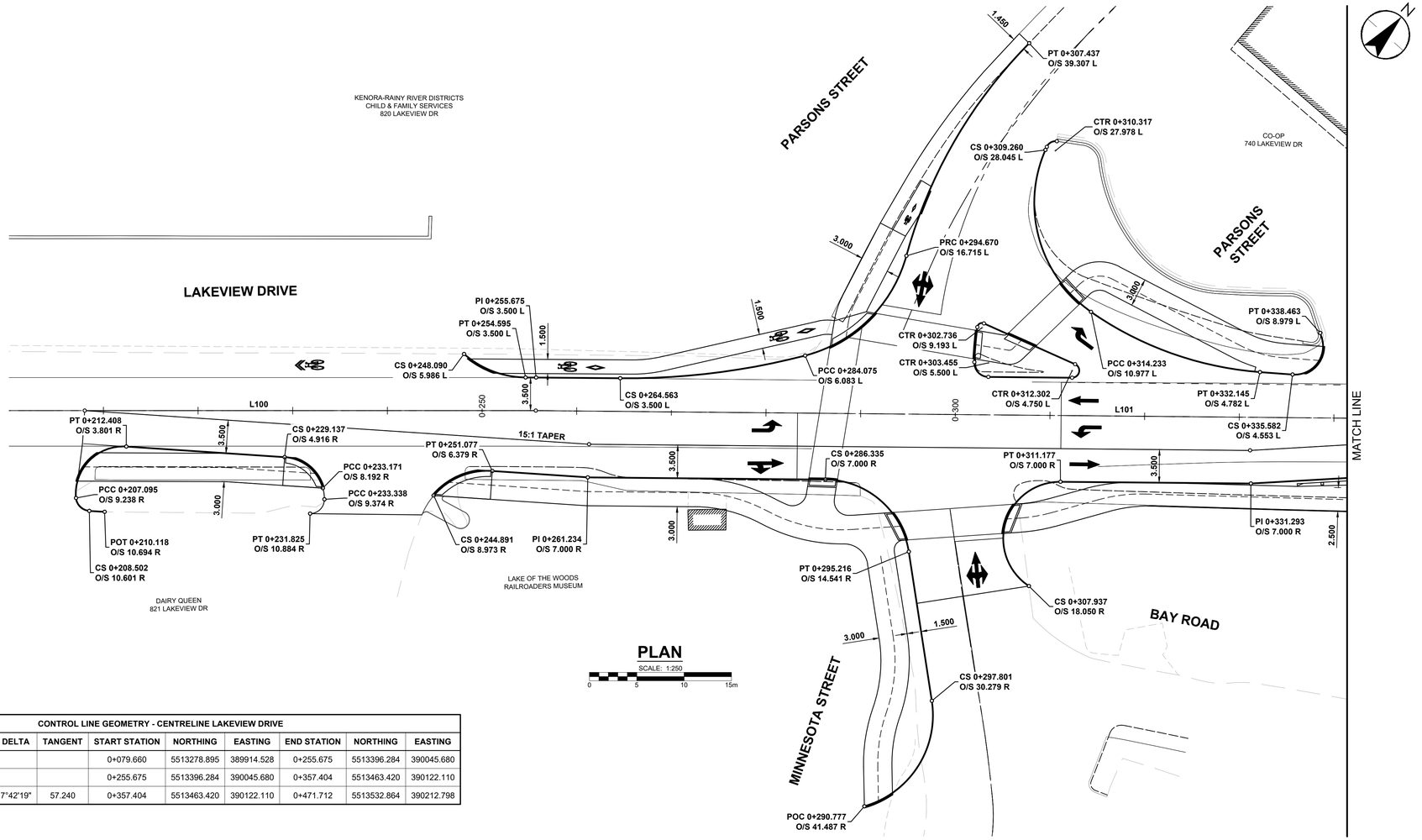
2026 MUNICIPAL PAVING PROGRAM

Title

LAKEVIEW DRIVE
PAINT MARKINGS AND SIGNAGE
STA 0+790 TO EAST LIMIT

Project No.	Scale	
113708672	1:250	
Drawing No.	**Sheet**	**Revision**
C-017	17 of 35	0

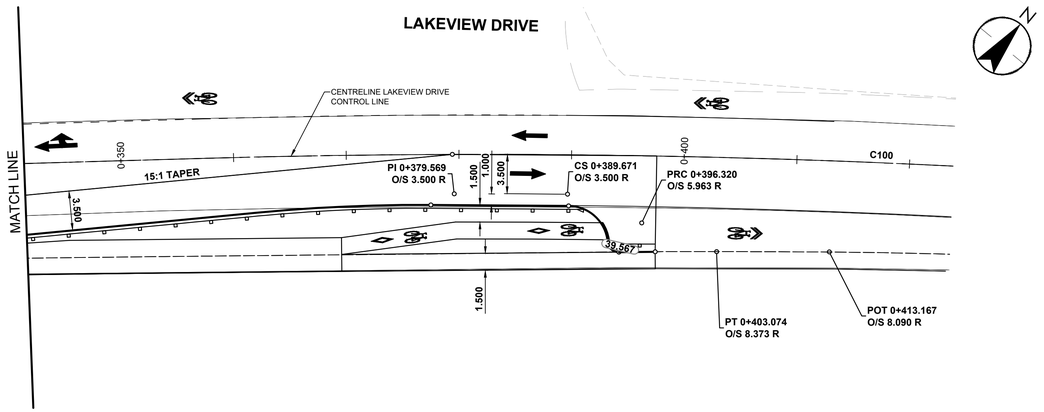
ORIGINAL SHEET - ARCH D 36" x 24"



PLAN
SCALE: 1:250
0 5 10 15m

CONTROL LINE GEOMETRY - CENTRELINE LAKEVIEW DRIVE										
NUMBER	LENGTH	RADIUS	DELTA	TANGENT	START STATION	NORTHING	EASTING	END STATION	NORTHING	EASTING
L100	176.014				0+079.660	5513278.895	389914.528	0+255.675	5513396.284	390045.680
L101	101.729				0+255.675	5513396.284	390045.680	0+357.404	5513463.420	390122.110
C100	114.308	850.000	7°42'19"	57.240	0+357.404	5513463.420	390122.110	0+471.712	5513532.864	390212.798

CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	1.500	2.135	81°32'41"	1.294
C2	5.000	8.635	98°57'16"	5.850
C3	4.500	5.539	70°31'44"	3.182
C4	4.500	1.197	15°14'33"	0.602
C5	1.500	2.380	90°54'58"	1.524
C6	7.500	6.955	53°07'48"	3.750
C7	10.000	7.113	40°45'15"	3.714
C8	75.000	19.739	15°04'47"	9.927
C9	15.000	8.748	33°24'51"	4.502
C10	51.500	26.233	29°11'05"	13.407
C11	9.000	12.672	80°40'14"	7.642
C12	10.000	14.452	82°48'22"	8.817
C13	6.000	15.428	147°19'19"	20.467
C14	0.500	0.933	106°51'28"	0.674
C15	1.500	2.411	92°04'39"	1.555
C16	0.750	2.048	156°26'42"	3.597
C17	1.000	1.307	74°52'29"	0.766
C18	14.000	19.262	78°49'57"	11.506
C19	36.000	19.179	30°31'26"	9.823
C20	3.000	5.899	112°39'30"	4.503



PLAN
SCALE: 1:250
0 5 10 15m

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

\\cn0045-spfs01\shared_projects\113708672\300_drawing\300_sheet_files\02_civil\08672c-018.dwg C-018 Parsons HG1
2026/02/26 10:45 AM By: Lane, Dave

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Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	(33.333)
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0 ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision	By	Appd.	YYYY.MM.DD
File Name: 08672c-018	DML	MEE	GFC	2025.12.15
	Dwn.	Chkd.	Dsgn.	YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER
M. E. EDGAR
100210594
FEB 26, 2026
PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

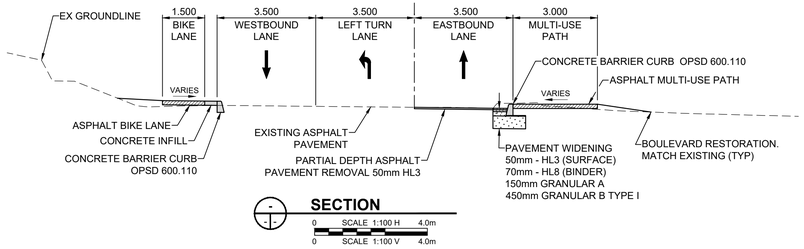
2026 MUNICIPAL PAVING PROGRAM

Title

LAKEVIEW DRIVE
PARSONS STREET INTERSECTION
HORIZONTAL GEOMETRY

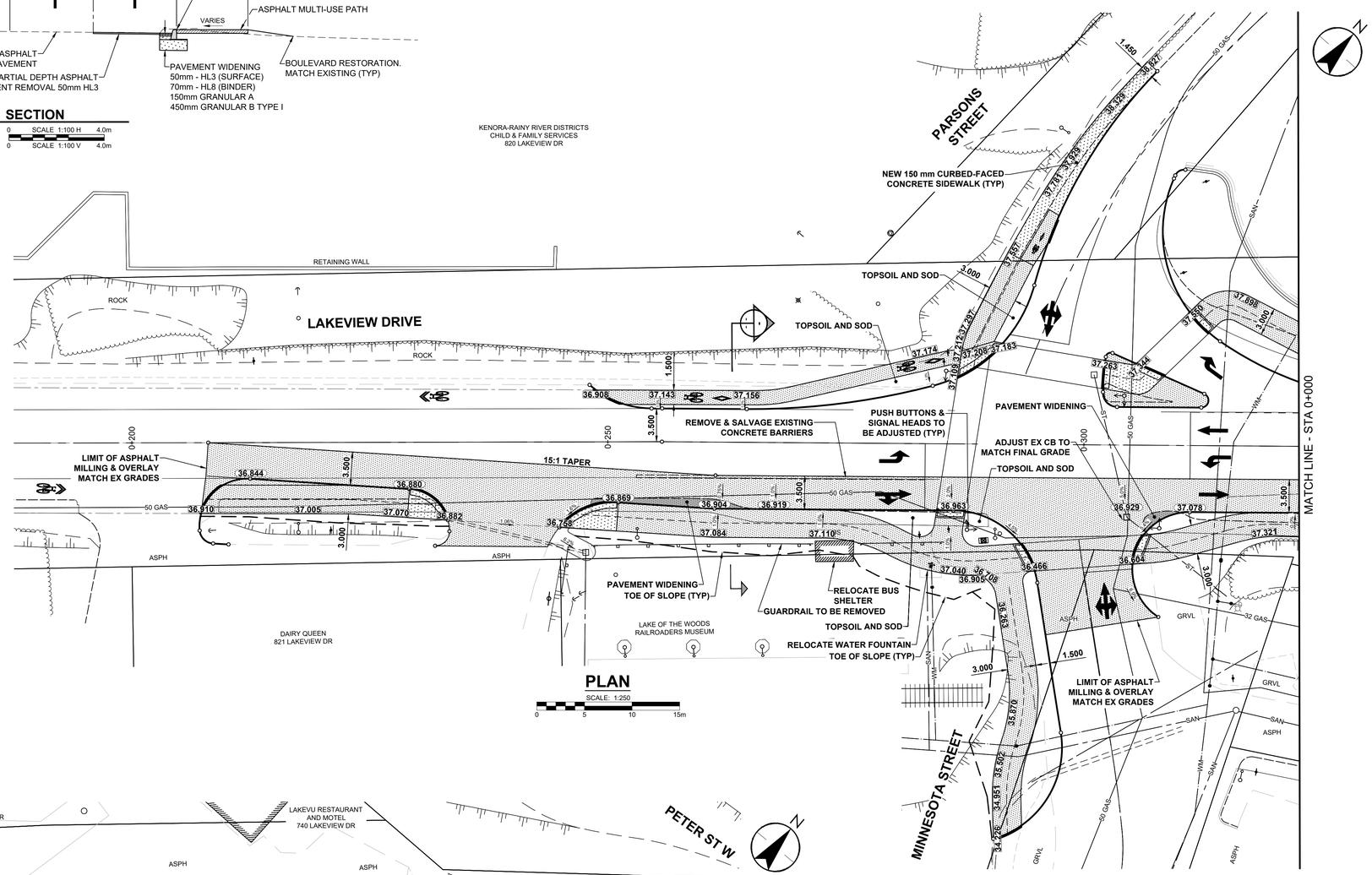
Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-018	18 of 35	0

ORIGINAL SHEET - ARCH D (36" x 24")



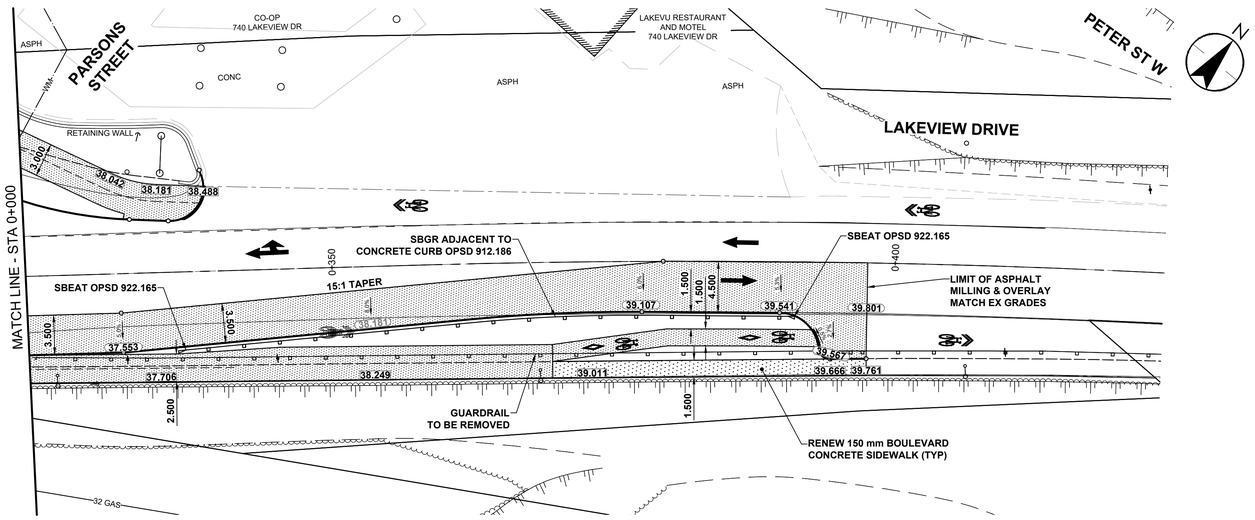
SECTION

SCALE 1:100 H 0 4.0m
SCALE 1:100 V 0 4.0m



PLAN

SCALE: 1:250
0 5 10 15m



PLAN

SCALE: 1:250
0 5 10 15m

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

NOTES

1. REMOVED & REPLACED EXISTING MANHOLE FRAME AND COVERS TO BE SALVAGED AND TAKEN TO CITY OPERATIONS YARD. ADJUST TO NEW GRADES.
2. REFER TO TENDER FOR DETAILS REGARDING TRAFFIC MANAGEMENT.
3. LAMP STANDARDS, HYDRO POLES, AND ANCHORS THAT REQUIRE TEMPORARY SUPPORT, REMOVAL OR REPLACEMENT, TO BE DONE SO AT THE EXPENSE OF THE CONTRACTOR AS NECESSARY.
4. UTILITIES SHOWN ARE APPROXIMATE ONLY, THE CITY OF KENORA AND ITS REPRESENTATIVES WILL NOT BE HELD ACCOUNTABLE FOR MISREPRESENTATION OF WATER AND SEWER SERVICES ON THIS DRAWING. CONTRACTOR IS RESPONSIBLE FOR UTILITY LOCATES PRIOR TO CONSTRUCTION.
5. CONTRACTOR TO COORDINATE WORK WITH UTILITY PROVIDERS.
6. LOT LINES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE VERIFIED BY CONTRACTOR.
7. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
8. EXISTING RESIDENTIAL PATHWAYS, STAIRS, RAMPS TO BE TIED IN TO BACK OF WALK.
9. CONTRACTORS TO BE RESPONSIBLE FOR REINSTATING ANY REGULATORY, WARNING OR STREET SIGNS THAT ARE REMOVED DURING CONSTRUCTION. THE REINSTATMENT OF SIGNAGE SHALL BE DEEMED INCIDENTAL TO THE CONTRACT WORK.
10. EXISTING RESIDENTIAL PATHWAYS, STAIRS, RAMPS, DRIVEWAYS TO BE REINSTATED AND CONSIDERED INCIDENTAL TO THE WORKS.
11. DRIVEWAYS AND CURB DROPS SHOWN ON DRAWINGS ARE APPROXIMATE. FINAL LOCATIONS TO BE FIELD DETERMINED WITH THE CONTRACT ADMINISTRATOR TO ACCOUNT FOR EXISTING CONDITIONS AND FEATURES.
12. ALL CATCH BASINS AND CATCH BASIN MAINTENANCE HOLES ARE TO HAVE SUMPS OF 0.6 m BELOW THE LOWEST PIPE INVERT CONNECTED TO EACH INDIVIDUAL STRUCTURE UNLESS NOT POSSIBLE DUE TO BEDROCK OR OTHER CONFLICTS.
13. CONTRACTOR SHALL VERIFY ALL PIPE INVERTS IN THE FIELD.
14. ADD 300.000 m TO ABBREVIATED ELEVATIONS TO OBTAIN GEODETIC ELEVATIONS.

Stantec

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Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	(33.333)
	TREE / TREELINE	
	CONCRETE	
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	ASPHALT	
	PAVING STONE	
	GRAVEL	
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	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0 ISSUED FOR TENDER		GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-019		DML	MEE	GFC	2025.11.13
		Dwn.	Chkd.	Dsgn.	YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER
M. E. EDGAR
100216694
FEB 26, 2026
PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

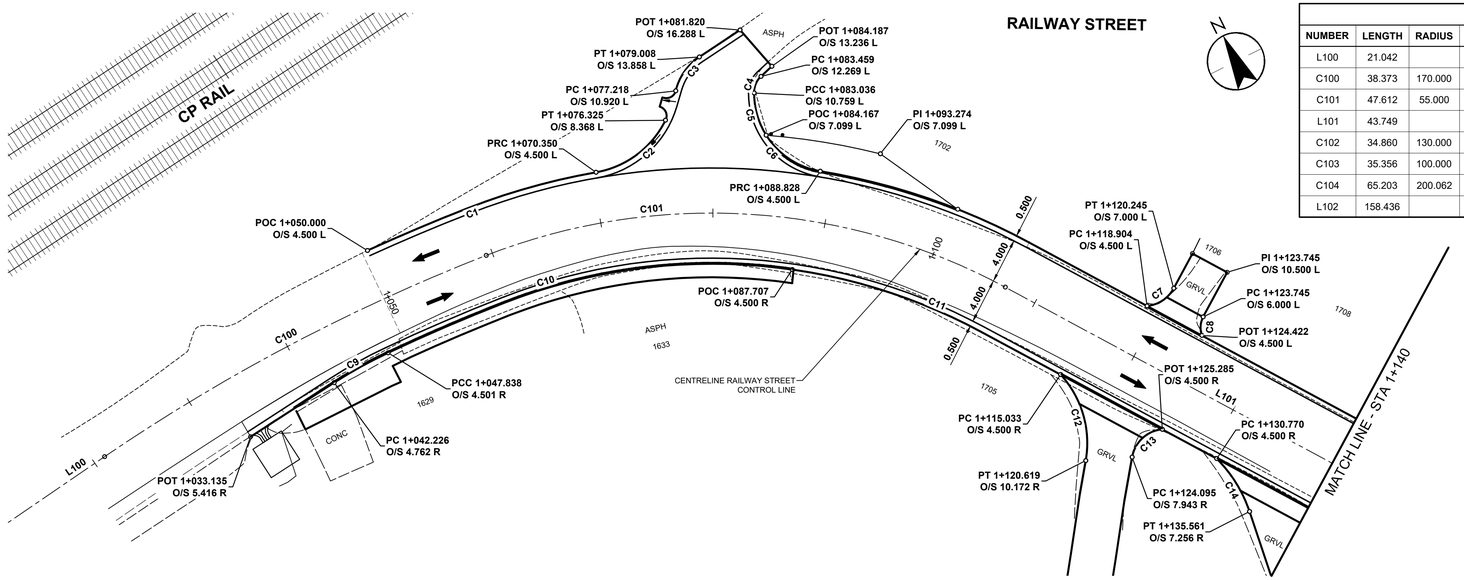
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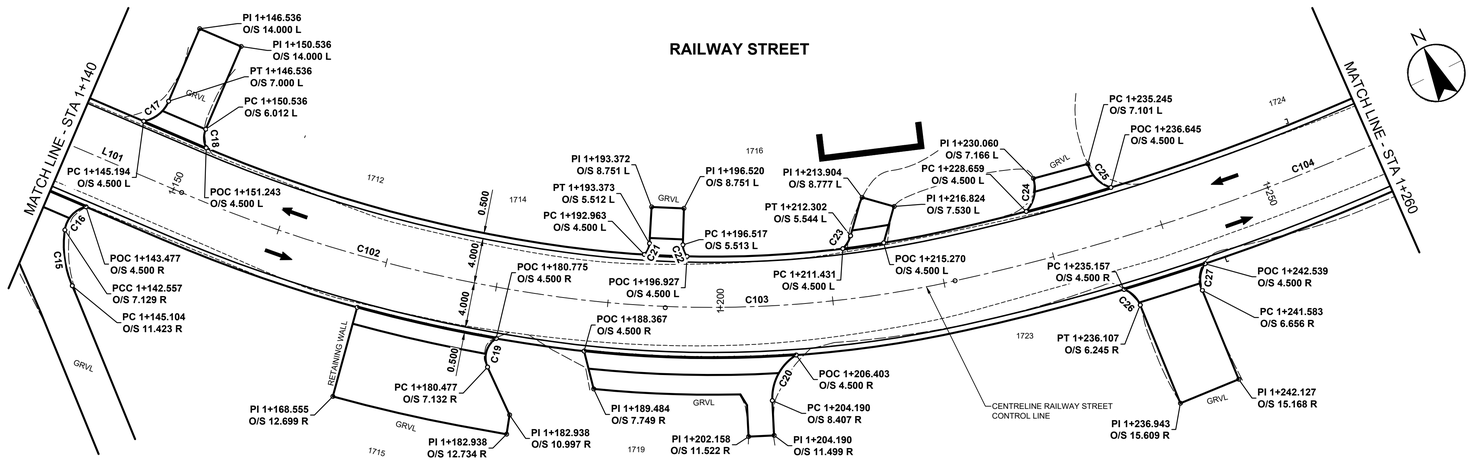
LAKEVIEW DRIVE -
PARSONS STREET INTERSECTION

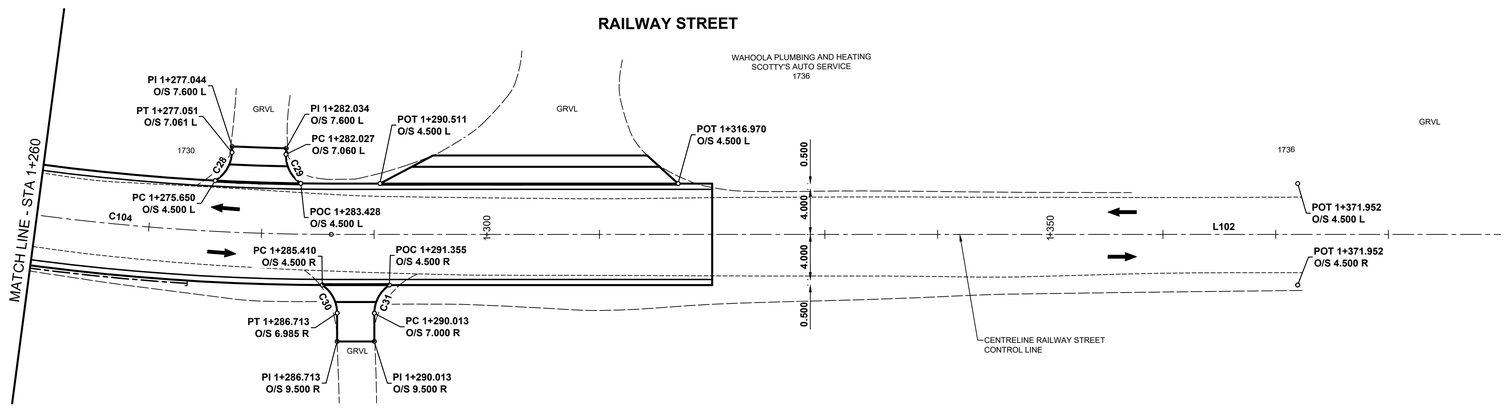
Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-019	19 of 35	0

\\ca0045-pcfs01\shared_projects\113708672\0300_drawing\0302_sheet_files\02_civil\08672c-019.dwg C-019 Parsons Pl.1
2026/02/26 10:46 AM By: Lane, Dove

ORIGINAL SHEET - ARCH D 36" x 24"







PLAN

SCALE: 1:250

0 5 10 15m

N

CONTROL LINE GEOMETRY - RAILWAY STREET										
NUMBER	LENGTH	RADIUS	DELTA	TANGENT	START STATION	NORTHING	EASTING	END STATION	NORTHING	EASTING
L100	21.042				1+000.000	5514469.238	395034.555	1+021.042	5514472.097	395055.403
C100	38.373	170.000	12°55'59"	19.268	1+021.042	5514472.097	395055.403	1+059.415	5514472.961	395093.684
C101	47.612	55.000	49°36'00"	25.413	1+059.415	5514472.961	395093.684	1+107.027	5514449.876	395133.633
L101	43.749				1+107.027	5514449.876	395133.633	1+150.776	5514414.117	395158.838
C102	34.860	130.000	15°21'51"	17.535	1+150.776	5514414.117	395158.838	1+185.637	5514388.641	395182.480
C103	35.356	100.000	20°15'28"	17.865	1+185.637	5514388.641	395182.480	1+220.993	5514371.413	395213.144
C104	65.203	200.062	18°40'24"	32.893	1+220.993	5514371.413	395213.144	1+286.196	5514360.293	395277.099
L102	158.436				1+286.196	5514360.293	395277.099	1+444.632	5514358.847	395435.529

CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	59.513	11.834	11°23'34"	5.936
C2	8.500	8.000	53°55'39"	4.324
C3	5.000	3.753	43°00'28"	1.970
C4	1.900	1.549	46°42'18"	0.820
C5	7.000	9.886	80°54'57"	5.970
C6	7.000	9.886	80°54'57"	5.970
C7	3.000	2.955	56°26'34"	1.610
C8	2.000	1.696	48°35'29"	0.903
C9	39.500	5.469	7°56'00"	2.739
C10	50.496	43.713	49°36'00"	23.332
C11	50.496	43.713	49°36'00"	23.332
C12	9.000	8.246	52°29'47"	4.438
C13	3.000	3.914	74°45'25"	2.292
C14	12.000	5.577	26°37'41"	2.840
C15	9.000	5.059	32°12'15"	2.598
C16	2.500	2.954	67°42'00"	1.677
C17	3.000	2.955	56°26'34"	1.610
C18	2.000	1.714	49°05'54"	0.914
C19	2.000	2.897	82°59'06"	1.769
C20	4.500	4.784	60°54'23"	2.646
C21	1.500	1.110	42°24'14"	0.582
C22	1.500	1.111	42°26'28"	0.582
C23	2.500	1.348	30°53'43"	0.691
C24	3.000	2.989	57°05'14"	1.632
C25	3.000	3.067	58°34'18"	1.683
C26	2.500	2.057	47°08'42"	1.091
C27	2.500	2.469	56°34'37"	1.345
C28	3.000	3.027	57°48'29"	1.656
C29	3.000	3.026	57°47'32"	1.656
C30	3.000	2.931	55°58'58"	1.595
C31	3.000	2.955	56°26'34"	1.610

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

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Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	33.333
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-020		DML	MEE	GFC 2026.02.25
		Dwn.	Chkd.	Dsgn. YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER
M. E. EDGAR
100216894
FEB 26, 2026
PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

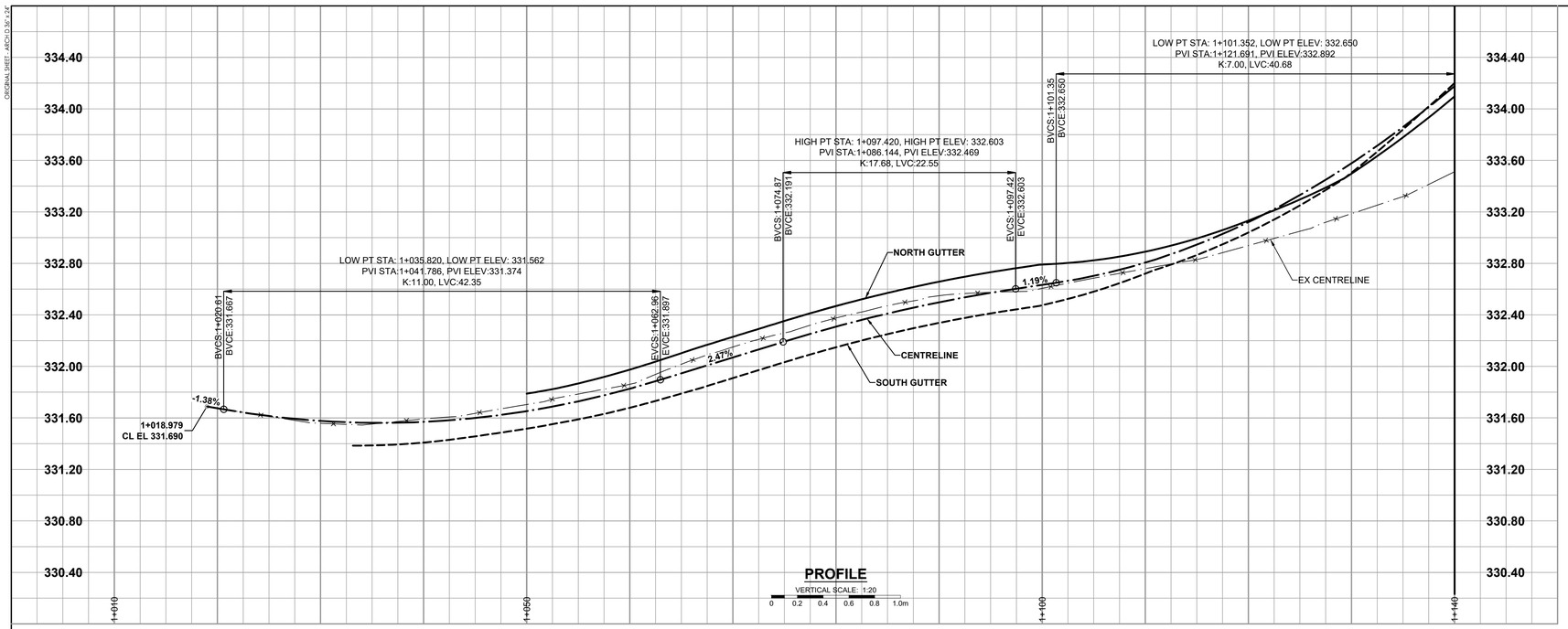
2026 MUNICIPAL PAVING PROGRAM

Title

RAILWAY STREET
HORIZONTAL GEOMETRY

Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-020	20 of 35	0

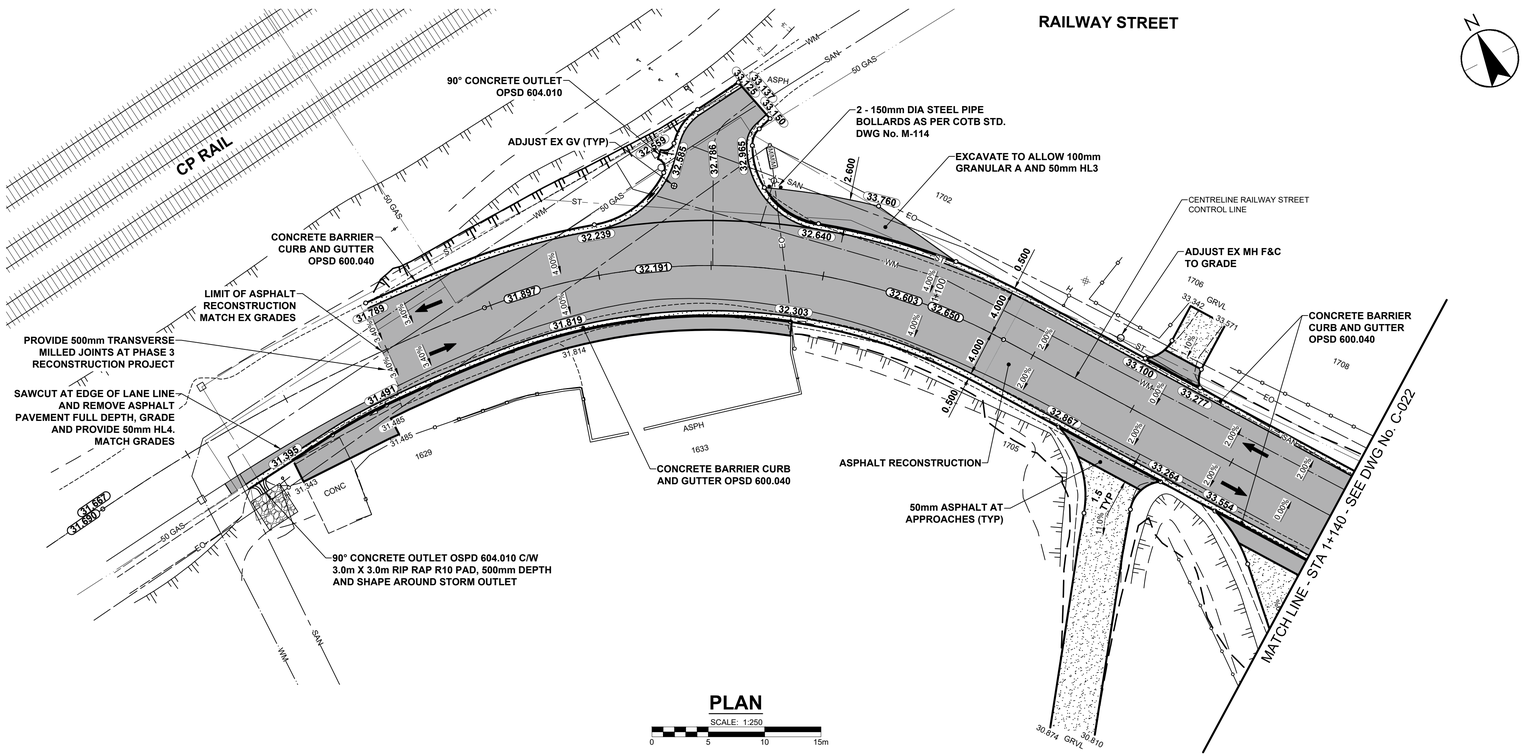
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2026/02/26 10:45 AM By: Lorie, Dave



PROFILE

VERTICAL SCALE: 1:20

0 0.2 0.4 0.6 0.8 1.0m



PLAN

SCALE: 1:250

0 5 10 15m

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

NOTES

1. REMOVED & REPLACED EXISTING MANHOLE FRAME AND COVERS TO BE SALVAGED AND TAKEN TO CITY OPERATIONS YARD. ADJUST TO NEW GRADES.
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13. CONTRACTOR SHALL VERIFY ALL PIPE INVERTS IN THE FIELD.
14. ADD 300.000 m TO ABBREVIATED ELEVATIONS TO OBTAIN GEODETIC ELEVATIONS.

Stantec

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Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	33.333
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-021		DML	MEE	GFC 2026.02.12
		Dwn.	Chkd.	Dsgn. YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER M. E. EDGAR 100216594 FEB 26, 2026 PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

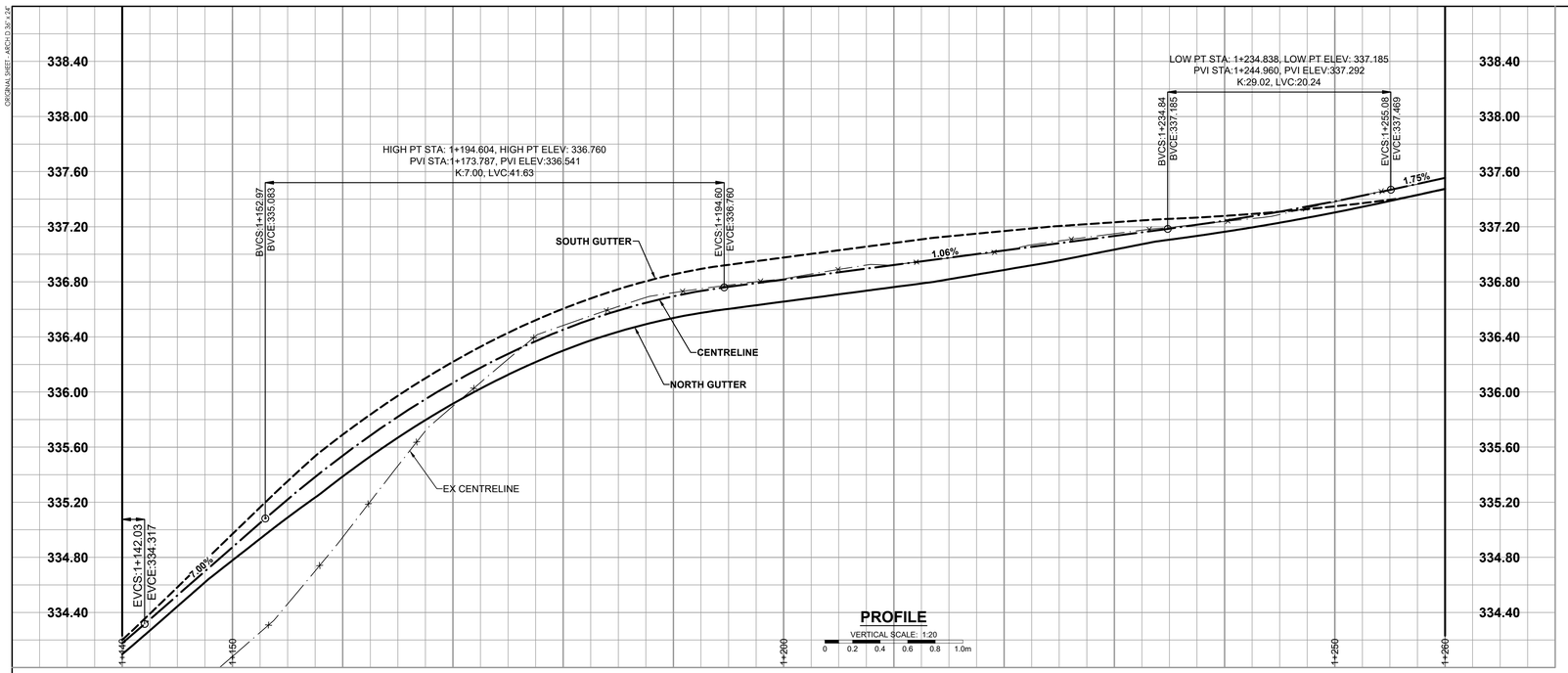
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RAILWAY STREET
PLAN & PROFILE
WEST LIMIT TO STA 1+140

Project No.	Scale	
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Drawing No.	Sheet	Revision
C-021	21 of 35	0

ORIGINAL SHEET - ARCH D (36" x 24")

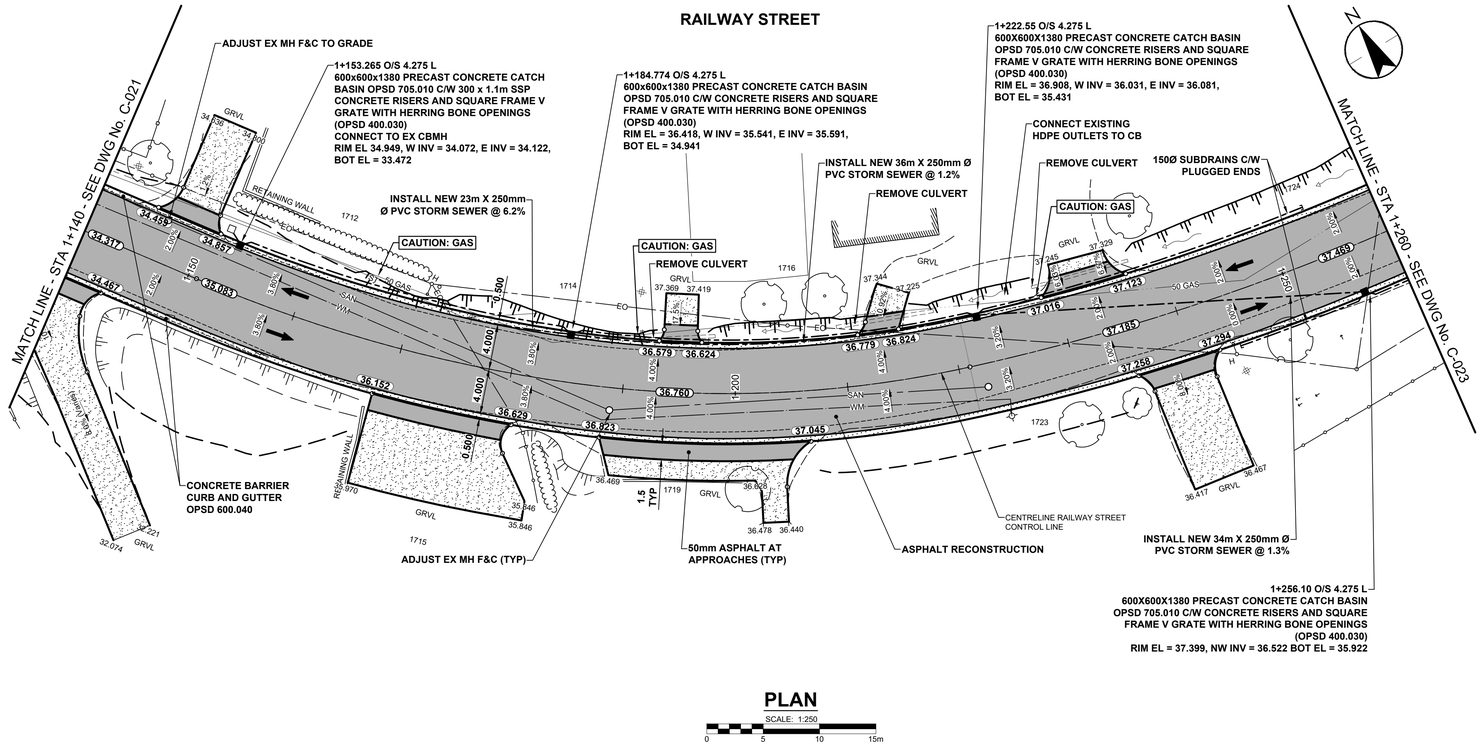
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2026/02/26 10:45 AM By: Lane, Dove



PROFILE

VERTICAL SCALE: 1:20

0 0.2 0.4 0.6 0.8 1.0m



PLAN

SCALE: 1:250

0 5 10 15m

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

NOTES

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Legend

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	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	(33.333)
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-022		DML	MEE	GFC	2025.12.16
		Dwn.	Chkd.	Dsgn.	YYYY.MM.DD

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Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER M. E. EDGAR 100216594 FEB 26, 2026 PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

Title

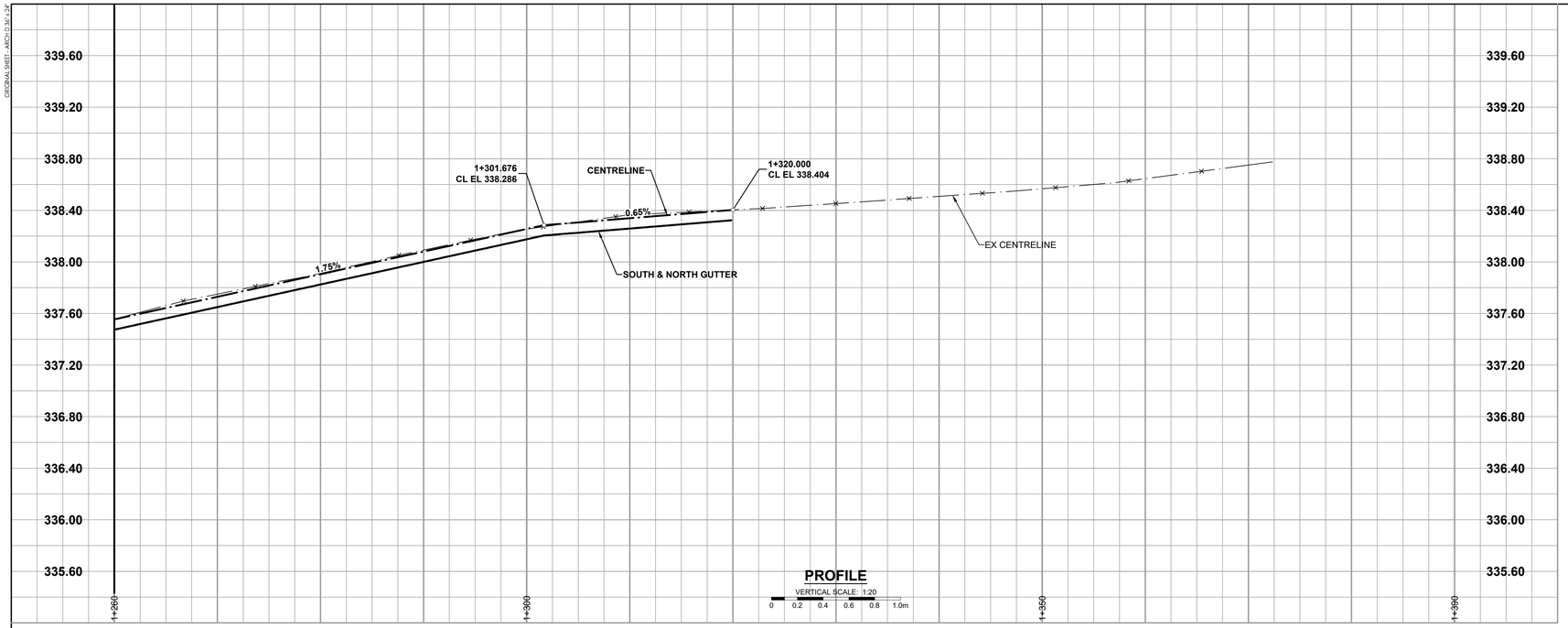
RAILWAY STREET
PLAN & PROFILE
STA 1+140 TO STA 1+260

Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-022	22 of 35	0

ORIGINAL SHEET - ARCH D 36" x 24"

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2026/02/26 10:45 AM By: Lane, Dove

ORIGINAL SHEET - ARCH D (36" x 24")

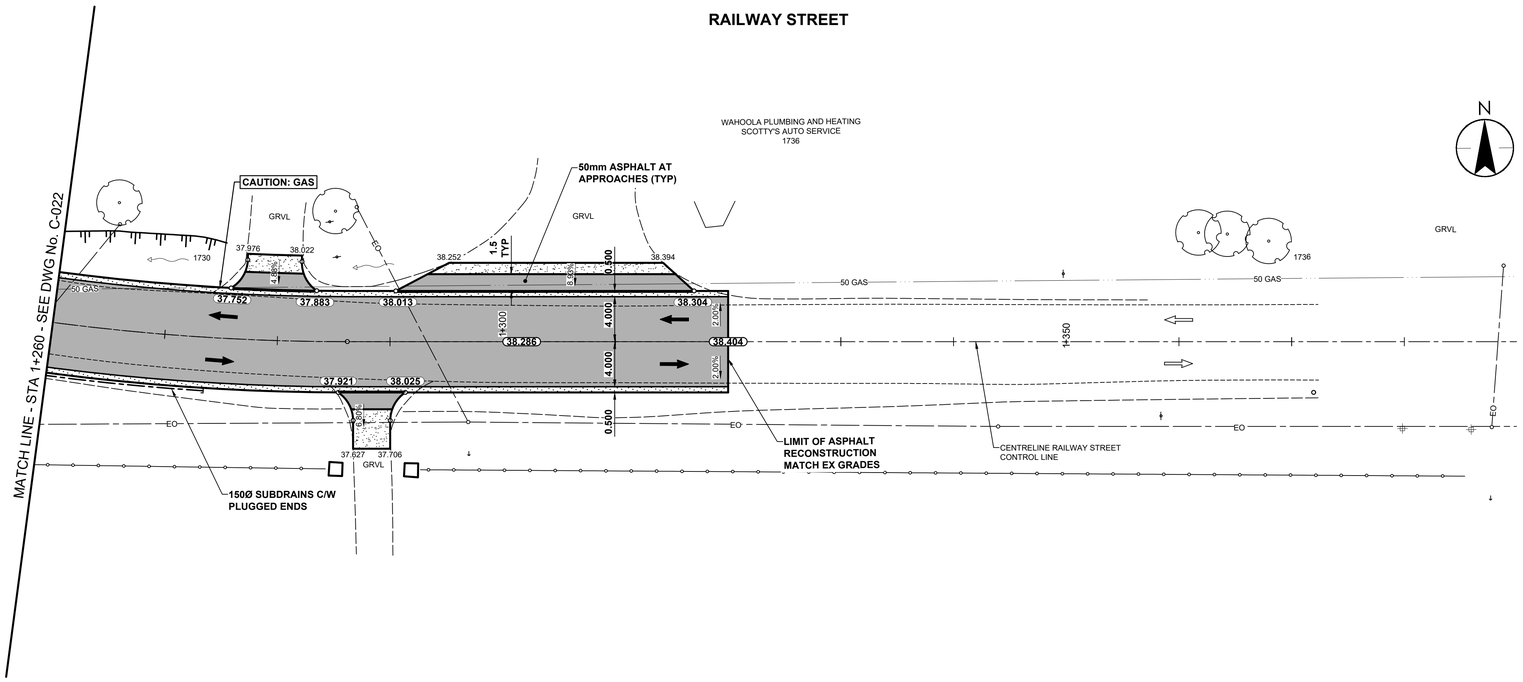


PROFILE

VERTICAL SCALE: 1:20

0 0.2 0.4 0.6 0.8 1.0m

RAILWAY STREET



PLAN

SCALE: 1:250

0 5 10 15m

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

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Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
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33.000	ELEVATIONS	33.333
	TREE / TREELINE	
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	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-023		DML	MEE	GFC 2025.11.04
		Dwn.	Chkd.	Dsgn. YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER
M. E. EDGAR
100216594
FEB 26, 2026
PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

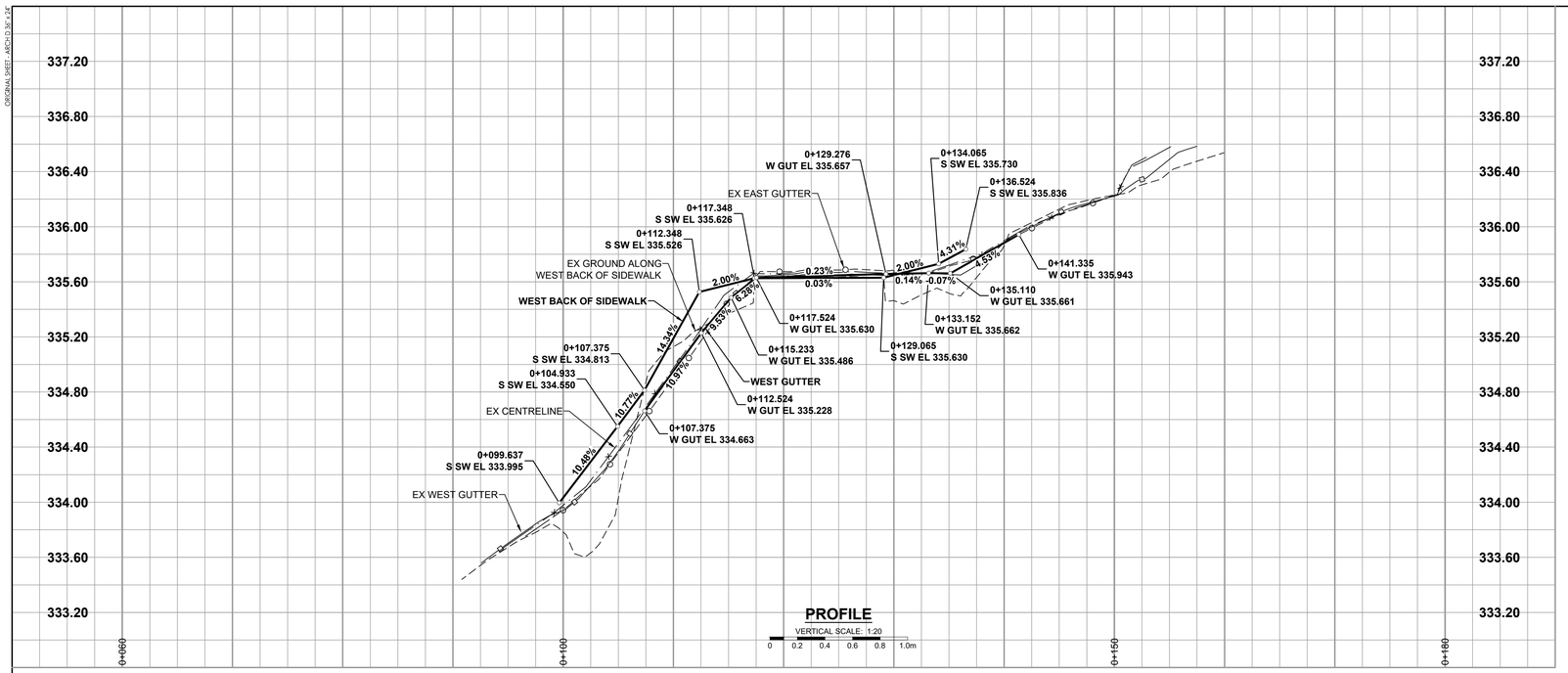
2026 MUNICIPAL PAVING PROGRAM

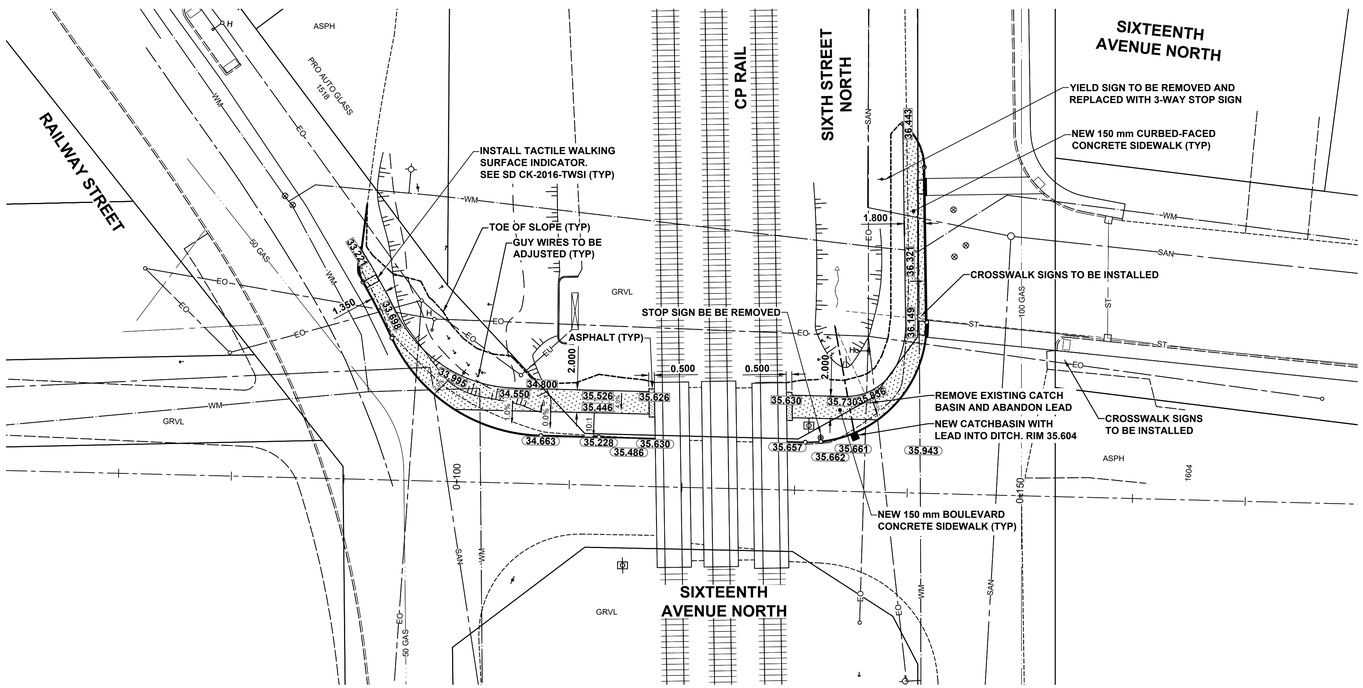
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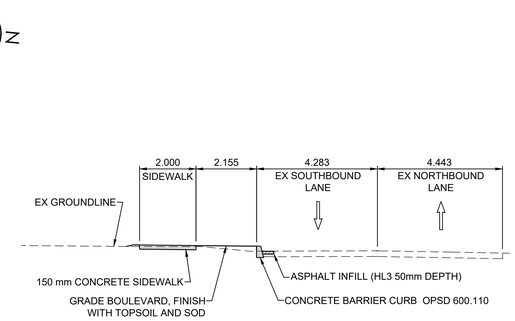
RAILWAY STREET
PLAN & PROFILE
STA1+260 TO EAST LIMIT

Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-023	23 of 35	0

\\cd0045-pcfs01\shared_projects\113708672\0300_drawing\0302_sheet_files\02_civil\08672c-023.dwg C-023 Railway PP3
2026/02/26 10:45 AM By: Lane, Dove







N

NOTES

1. REMOVED & REPLACED EXISTING MANHOLE FRAME AND COVERS TO BE SALVAGED AND TAKEN TO CITY OPERATIONS YARD. ADJUST TO NEW GRADES.
2. REFER TO TENDER FOR DETAILS REGARDING TRAFFIC MANAGEMENT.
3. LAMP STANDARDS, HYDRO POLES, AND ANCHORS THAT REQUIRE TEMPORARY SUPPORT, REMOVAL OR REPLACEMENT, TO BE DONE SO AT THE EXPENSE OF THE CONTRACTOR AS NECESSARY.
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5. CONTRACTOR TO COORDINATE WORK WITH UTILITY PROVIDERS.
6. LOT LINES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE VERIFIED BY CONTRACTOR.
7. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
8. EXISTING RESIDENTIAL PATHWAYS, STAIRS, RAMPS TO BE TIED IN TO BACK OF WALK.
9. CONTRACTORS TO BE RESPONSIBLE FOR REINSTATING ANY REGULATORY, WARNING OR STREET SIGNS THAT ARE REMOVED DURING CONSTRUCTION. THE REINSTATMENT OF SIGNAGE SHALL BE DEEMED INCIDENTAL TO THE CONTRACT WORK.
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12. ALL CATCH BASINS AND CATCH BASIN MAINTENANCE HOLES ARE TO HAVE SUMPS OF 0.6 m BELOW THE LOWEST PIPE INVERT CONNECTED TO EACH INDIVIDUAL STRUCTURE UNLESS NOT POSSIBLE DUE TO BEDROCK OR OTHER CONFLICTS.
13. CONTRACTOR SHALL VERIFY ALL PIPE INVERTS IN THE FIELD.
14. TERMINATE CURB AS PER OPSD 608.010.
15. ADD 300.000 m TO ABBREVIATED ELEVATIONS TO OBTAIN GEODETIC ELEVATIONS.

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	(33.333)
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

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0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-024		DML	MEE	GFC 2025.12.16
		Dwn.	Chkd.	Dsgn. YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER
M. E. EDGAR
100216594
FEB 26, 2026
PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

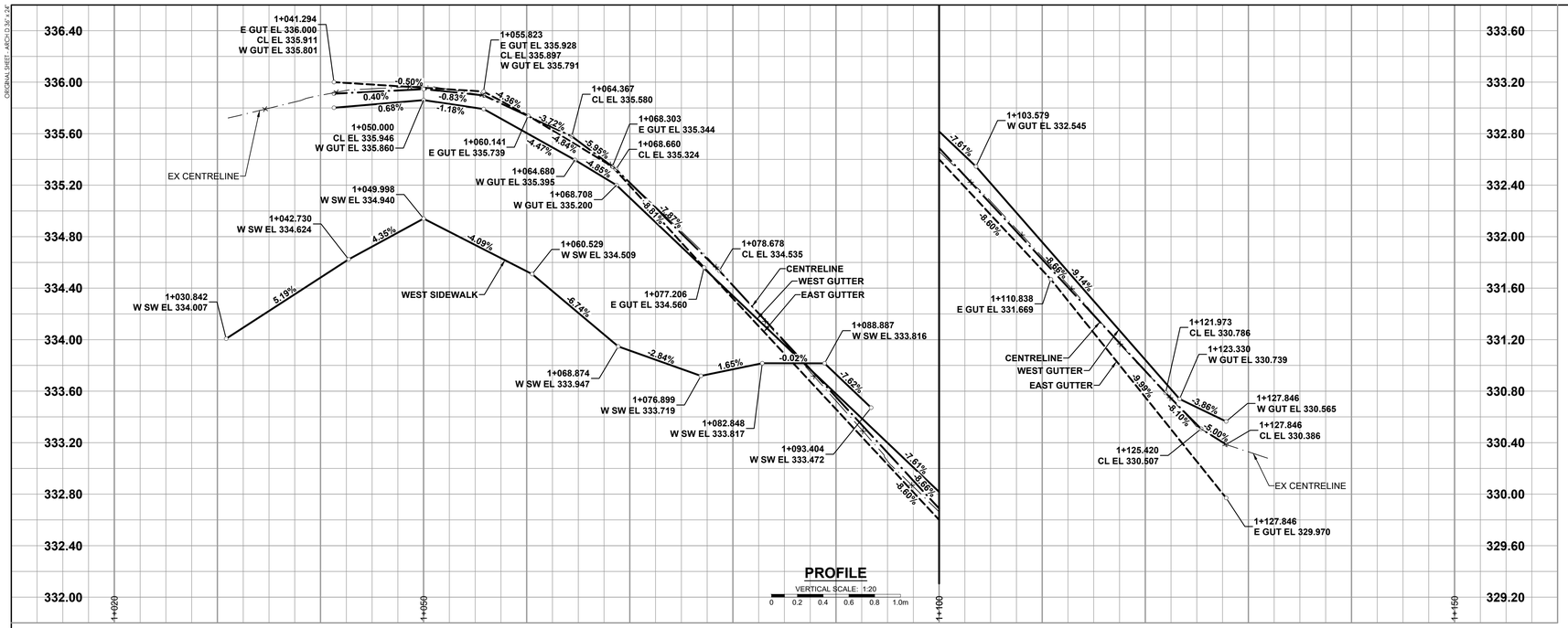
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CP RAIL SIDEWALK CROSSING
PLAN & PROFILE
SIXTEENTH AVE N AND SIXTH ST N

Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-024	24 of 35	0

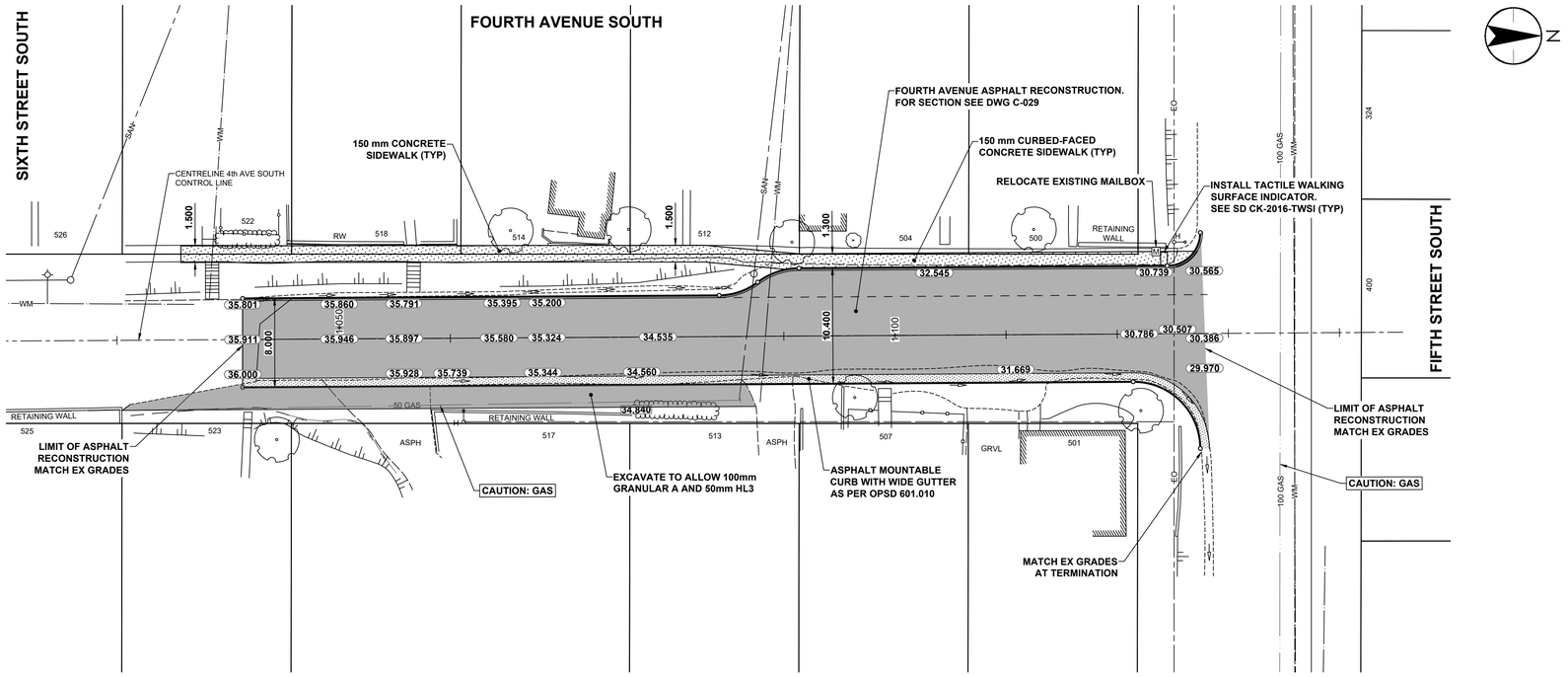
ORIGINAL SHEET - ARCH D 36" x 24"

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2026/02/26 10:46 AM By: Lane, Dove



NOTES

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METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

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Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	(33.333)
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-025		DML	MEE	GFC 2025.11.12
		Dwn.	Chkd.	Dsgn. YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER M. E. EDGAR 100216694 FEB 26, 2026 PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

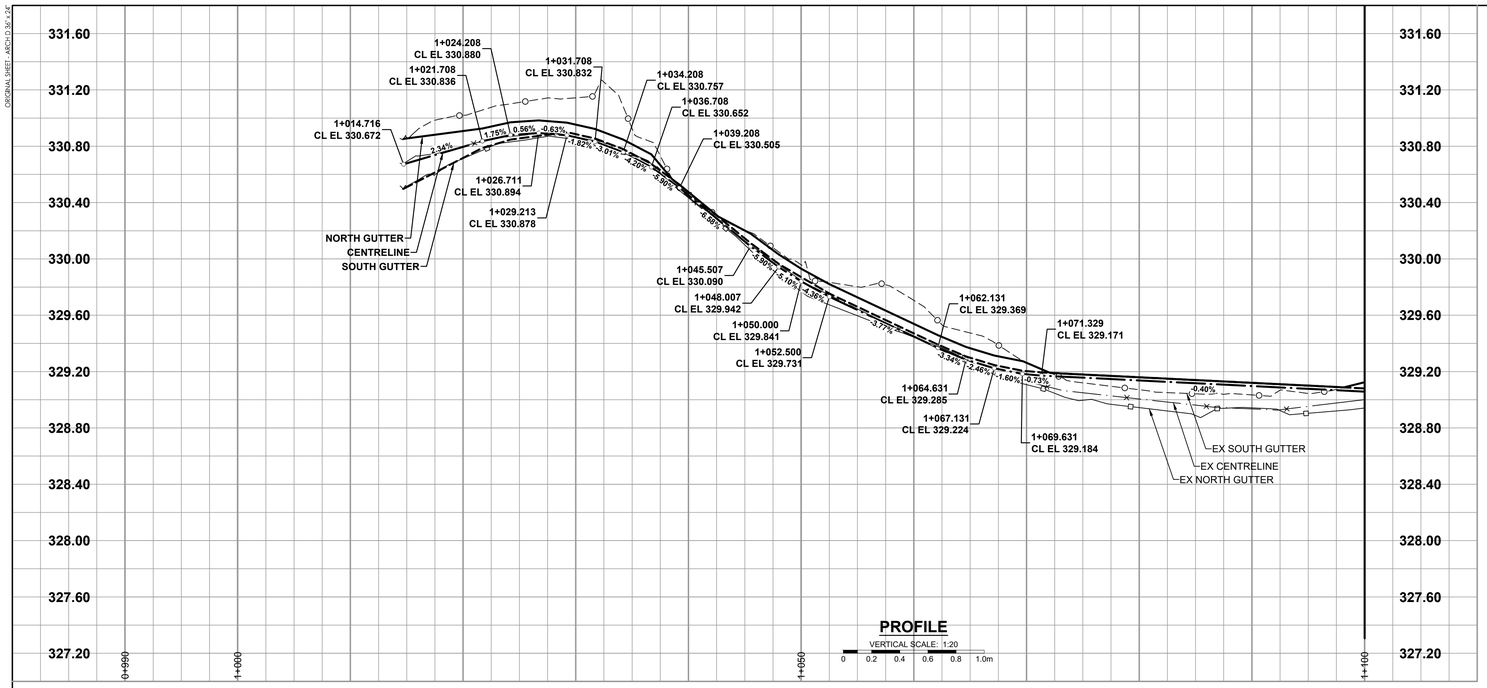
2026 MUNICIPAL PAVING PROGRAM

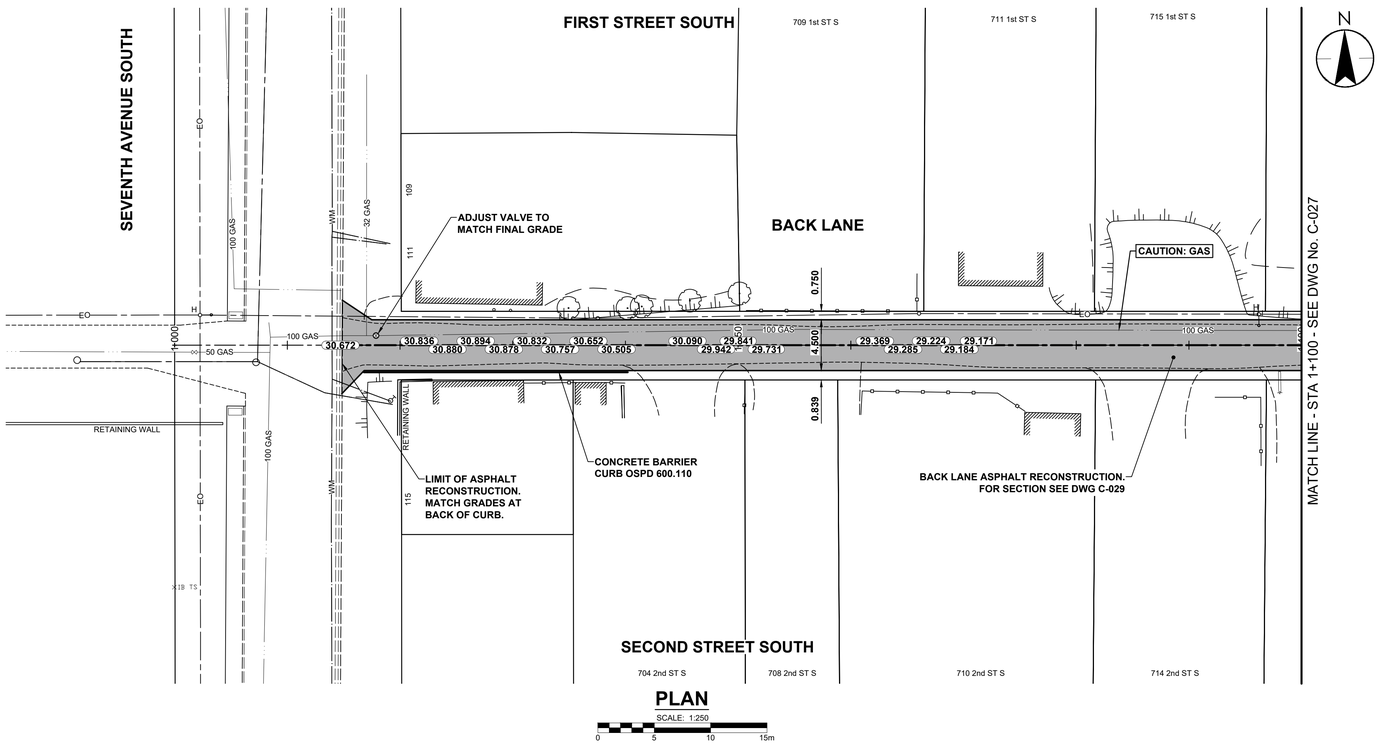
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FOURTH AVENUE SOUTH
PLAN & PROFILE
FIFTH STREET SOUTH TO 100m SOUTH

Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-025	25 of 35	0

ORIGINAL SHEET - ARCH D 36" x 24"
\\cd0045-pcifs01\shared_projects\113708672\0300_drawing\0302_sheet_files\102_civil\08672c-025.dwg C-025 Fourth PP1
2026/02/26 10:45 AM By: Lane, Dove





PROPOSED NORTH GUTTER PROFILE		
STATION	ELEVATION	GRADE OUT %
1014.716	330.852	1.05
1021.708	330.926	1.75
1024.208	330.970	0.56
1026.711	330.984	-0.63
1029.213	330.968	-1.82
1031.708	330.922	-3.01
1034.208	330.847	-4.20
1036.708	330.742	-9.51
1038.575	330.564	-5.90
1039.208	330.527	-6.58
1042.658	330.300	-4.22
1045.507	330.180	-5.90
1048.007	330.032	-5.10
1050.000	329.931	-4.36
1052.500	329.821	-3.77
1062.131	329.459	-3.34
1064.631	329.375	-2.46
1067.131	329.314	-1.58
1069.683	329.273	-3.41
1072.102	329.191	-0.40
1098.171	329.088	2.02
1100.964	329.144	-0.40

PROPOSED SOUTH GUTTER PROFILE		
STATION	ELEVATION	GRADE OUT %
1014.688	330.497	4.14
1021.648	330.785	2.42
1024.223	330.847	1.05
1026.628	330.872	1.07
1029.213	330.900	-1.82
1031.708	330.855	-3.01
1034.208	330.780	-4.20
1036.708	330.674	-5.90
1038.575	330.564	-6.52
1045.507	330.112	-5.90
1048.007	329.965	-4.69
1052.500	329.754	-3.77
1062.131	329.391	-3.34
1064.631	329.308	-2.46
1067.131	329.246	-1.60
1069.631	329.206	-0.73
1071.329	329.194	-0.40
1131.158	328.957	-0.40

NOTES

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13. CONTRACTOR SHALL VERIFY ALL PIPE INVERTS IN THE FIELD.
14. ADD 300.000 m TO ABBREVIATED ELEVATIONS TO OBTAIN GEODETIC ELEVATIONS.

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

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Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	33.333
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0 ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision	By	Appd.	YYYY.MM.DD
File Name: 08672c-026	DML	MEE	GFC	2026.02.22
	Dwn.	Chkd.	Dsgn.	YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER
M. E. EDGAR
100210694
FEB 26, 2026
PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

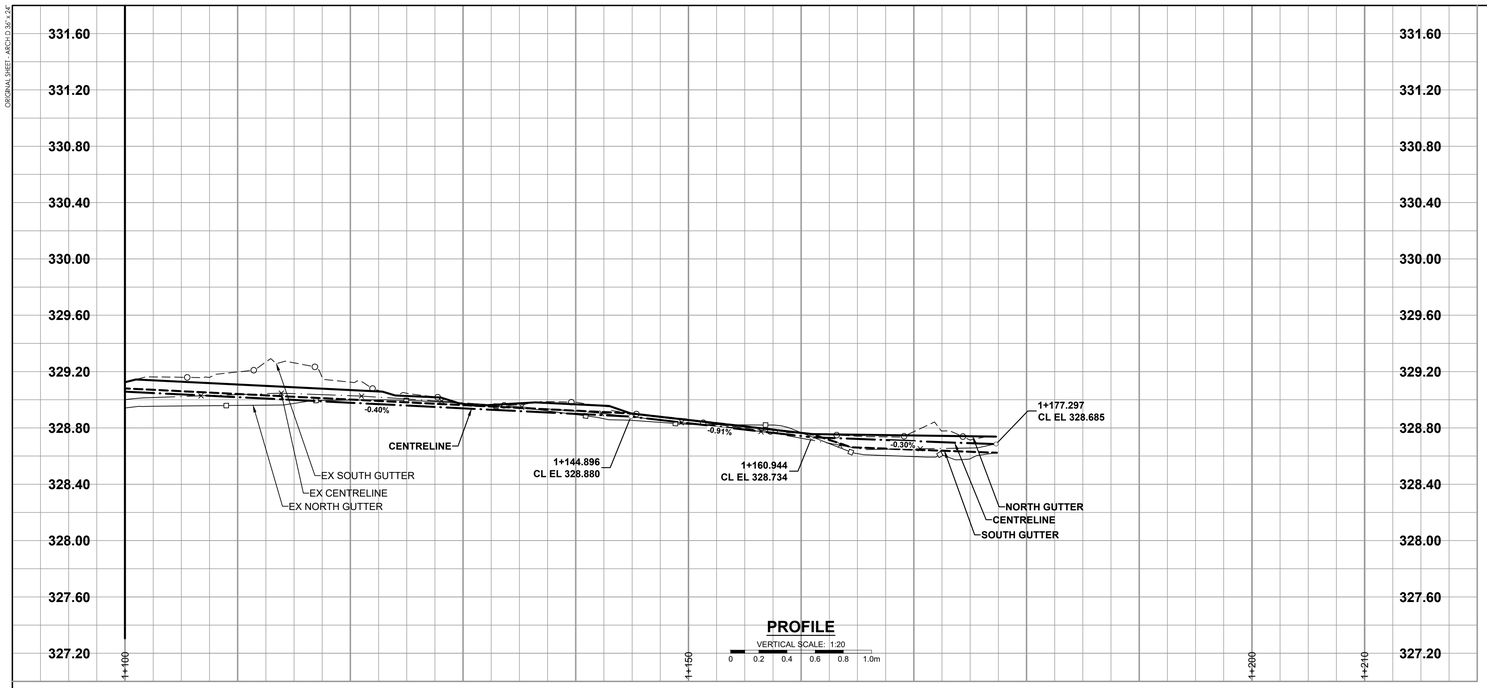
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BACK LANE BETWEEN
1st STREET S AND 2nd STREET S
FROM 7th AVENUE S TO 8th AVENUE S

Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-026	26 of 35	0

ORIGINAL SHEET - ARCH D (36" x 24")

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2026/02/24 10:45 AM By: Lane, Dove



PROFILE

VERTICAL SCALE: 1:20

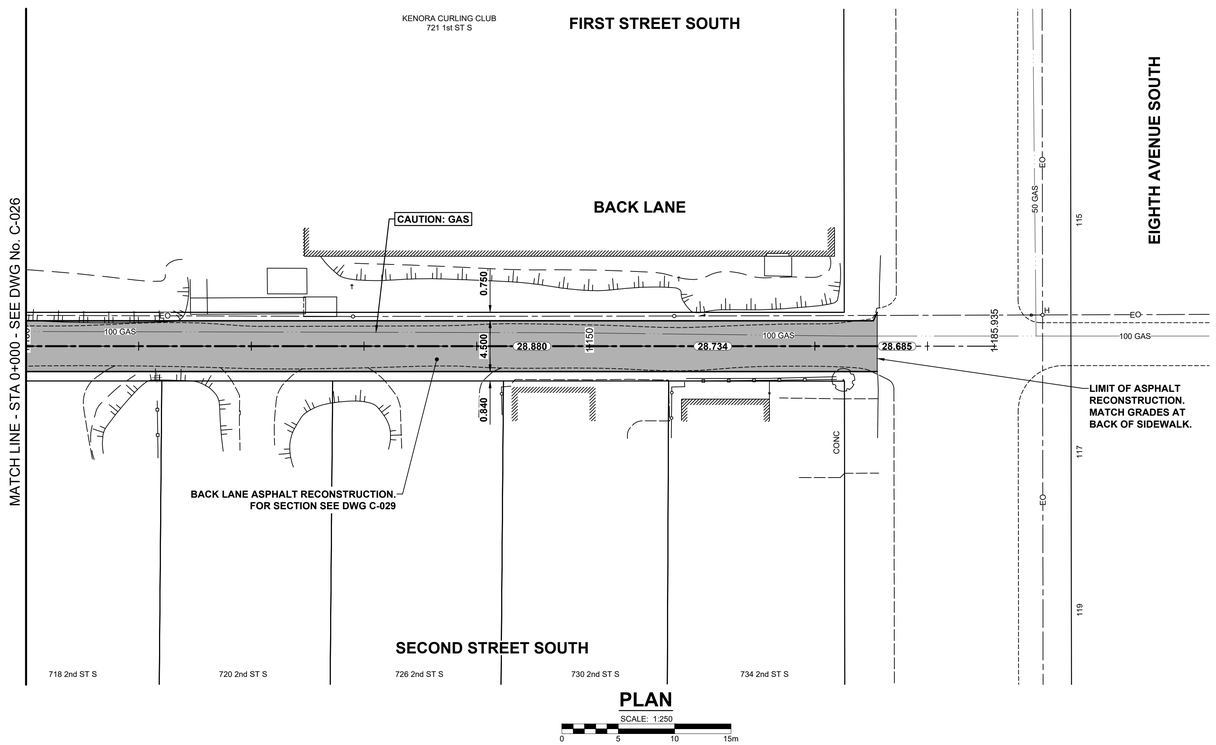
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PROPOSED NORTH GUTTER PROFILE		
STATION	ELEVATION	GRADE OUT %
1098.171	329.088	2.02
1100.964	329.144	-0.40
1122.851	329.058	-2.39
1123.976	329.031	-0.37
1128.007	329.016	-2.47
1129.601	328.976	-1.23
1131.158	328.957	0.46
1136.421	328.982	-0.40
1142.960	328.956	-2.72
1144.896	328.903	-0.91
1160.944	328.756	-0.11
1177.297	328.738	0.00

PROPOSED SOUTH GUTTER PROFILE		
STATION	ELEVATION	GRADE OUT %
1071.329	329.194	-0.40
1131.158	328.957	-0.40
1144.896	328.903	-0.91
1160.944	328.756	-2.66
1164.483	328.662	-0.30
1177.372	328.624	0.00

NOTES

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PLAN

SCALE: 1:250

0 5 10 15m

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

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Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
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	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
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	RAMP CURB	
33.000	ELEVATIONS	33.333
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	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
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	GRAVEL	
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	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-027		DML	MEE	GFC	2025.12.23
		Dwn.	Chkd.	Dsgn.	YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

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M. E. EDGAR
100210594
FEB 26, 2026
PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

Title

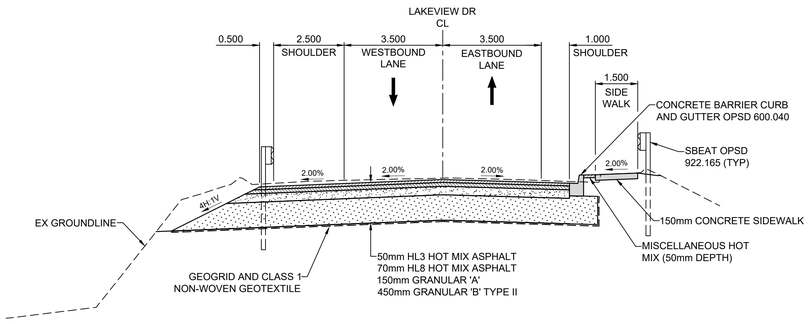
BACK LANE BETWEEN
1st STREET S AND 2nd STREET S
FROM 7th AVENUE S TO 8th AVENUE S

Project No.	Scale	
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Drawing No.	Sheet	Revision
C-027	27 of 35	0

ORIGINAL SHEET - ARCH D 36" x 24"

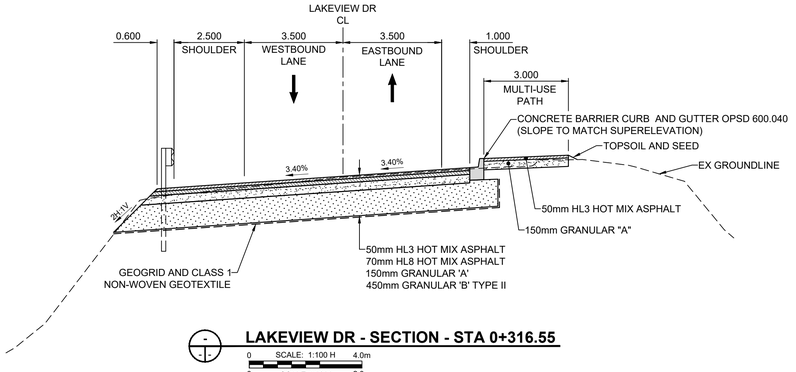
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2026/02/24 10:46 AM By: Lane, Dove

ORIGINAL SHEET - ARCH D (36" x 24")



LAKEVIEW DR - SECTION - STA 0+121.49

0 SCALE: 1:100 H 4.0m
0 SCALE 1:50 V 2.0m

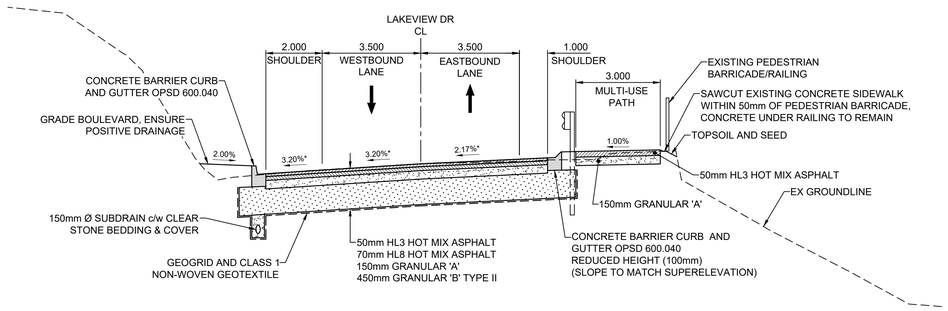


LAKEVIEW DR - SECTION - STA 0+316.55

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SUBGRADE PREPARATION:

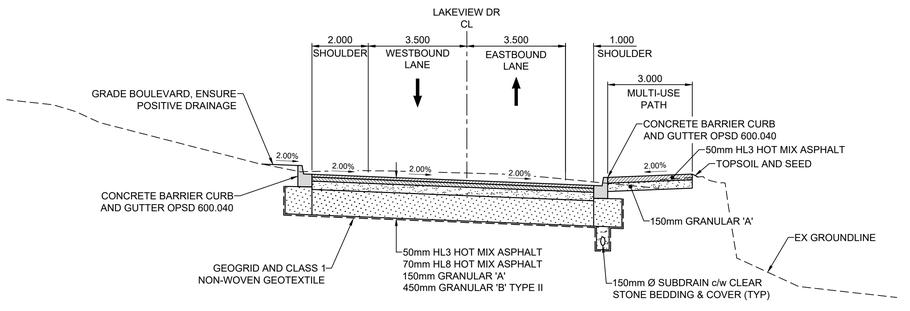
1. ALL TOPSOIL, ORGANICS, SOFT OR SPONGY MATERIALS SHOULD BE SUB-EXCAVATED WITHIN THE PROPOSED SUBGRADE AREAS BELOW THE PAVEMENT STRUCTURE.
2. THE SITE SHOULD BE GRADED TO THE TARGET SUBGRADE PROFILE AS PER THE FINAL PAVEMENT PROFILE AND THE TOTAL PAVEMENT THICKNESS.
3. WHERE SHALLOW BEDROCK IS ENCOUNTERED, THE MINIMUM GRANULAR CUT AND THE ROAD SUB-BASE MATERIAL MAY BE REDUCED TO ACCOMMODATE GRADES AS REVIEWED AND APPROVED BY THE ENGINEER.
4. SHATTERING SHALLOW ROCK FOR DRAINAGE PURPOSES MAY BE REQUIRED AS PER OPSS 206 DEPENDING ON ACTUAL ELEVATION OF BEDROCK ENCOUNTERED.
5. THE SUBGRADE MATERIAL MUST BE PROPERLY SHAPED TO PROMOTE DRAINAGE TO THE DRAINAGE SYSTEM, AND SURFACE WATER SHALL NOT BE ALLOWED TO POND.
6. THE FINAL SUBGRADE CROSSFALL SHALL BE AT LEAST 2% TO DRAINAGE AND BE FREE OF DEPRESSION, EXCEPT IN SUPERELEVATION TRANSITION AREAS.
7. TO PROTECT THE INTEGRITY OF THE SUBGRADE, THE FINAL EXCAVATION LIFT SHOULD BE CARRIED OUT ONLY WHEN THE CONTRACTOR IS READY TO PREPARE AND COVER THE SUBGRADE WITH THE SPECIFIED MATERIAL ON THE SAME DAY THE FINAL SUBGRADE IS EXPOSED AND INSPECTED.
8. GEOTEXTILE SHALL BE CLASS 1 NON-WOVEN GEOTEXTILE TITAN T-4 OR APPROVED EQUIVALENT.
9. EXPOSED SUBGRADE SHALL BE INSPECTED AND REVIEWED BY THE ENGINEER PRIOR TO BACKFILLING.
10. THE CONTRACTOR SHALL PROOF ROLL THE SUBGRADE TO SPOT AND DELINEATE SOFT AREAS.
11. SHOULD A SOFT SPOT BE IDENTIFIED, IT SHOULD BE SUB-EXCAVATED, LINED WITH A NON-WOVEN GEOTEXTILE, AND SUBSEQUENTLY REPLACED WITH GRANULAR B TYPE II, AS APPROVED BY THE ENGINEER.



LAKEVIEW DR - SECTION - STA 0+471.77

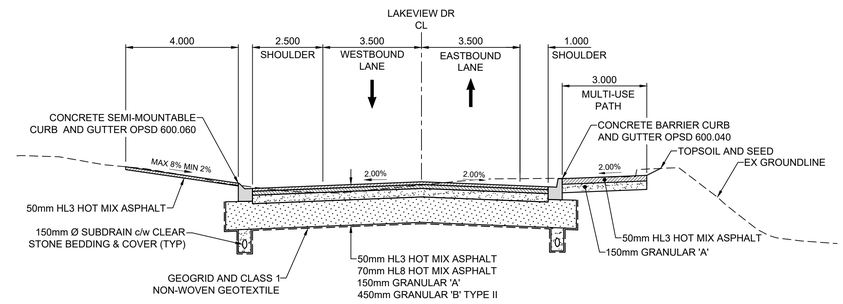
0 SCALE: 1:100 H 4.0m
0 SCALE 1:50 V 2.0m

- SUPERELEVATION VARIES, CROSSFALL AS INDICATED IN PLAN DRAWINGS.
- BEDROCK ENCOUNTERED WITHIN THE SUB-BASE LIMITS MAY BE LEFT IN PLACE.



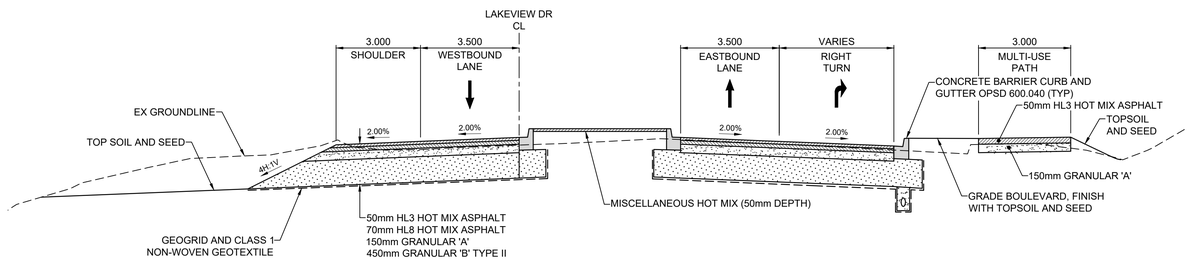
LAKEVIEW DR - SECTION - STA 0+574.87

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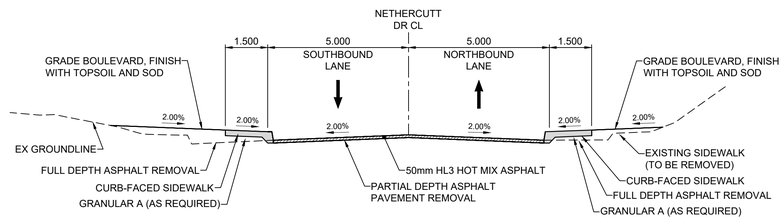
LAKEVIEW DR - SECTION - STA 0+674.71

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LAKEVIEW DR - SECTION - STA 0+812.90

0 SCALE: 1:100 H 4.0m
0 SCALE 1:50 V 2.0m



NETHERCUTT DR - SECTION

0 SCALE: 1:100 H 4.0m
0 SCALE 1:50 V 2.0m

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

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Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	(33.333)
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-028		DML	MEE	GFC	2026.02.21
		Dwn.	Chkd.	Dsgn.	YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER
M. E. EDGAR
100216694
Feb 26, 2026
PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

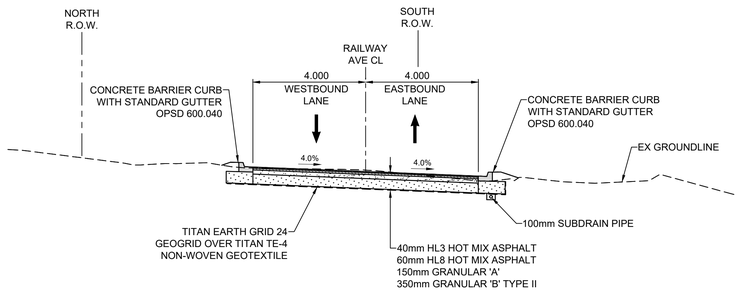
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SECTIONS

Project No.	Scale	
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Drawing No.	Sheet	Revision
C-028	28 of 35	0

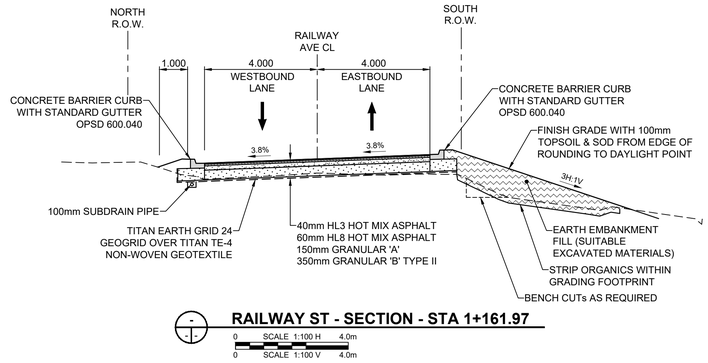
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2026/02/26 10:46 AM By: Lane, Dove

ORIGINAL SHEET - ARCH D 36" x 24"



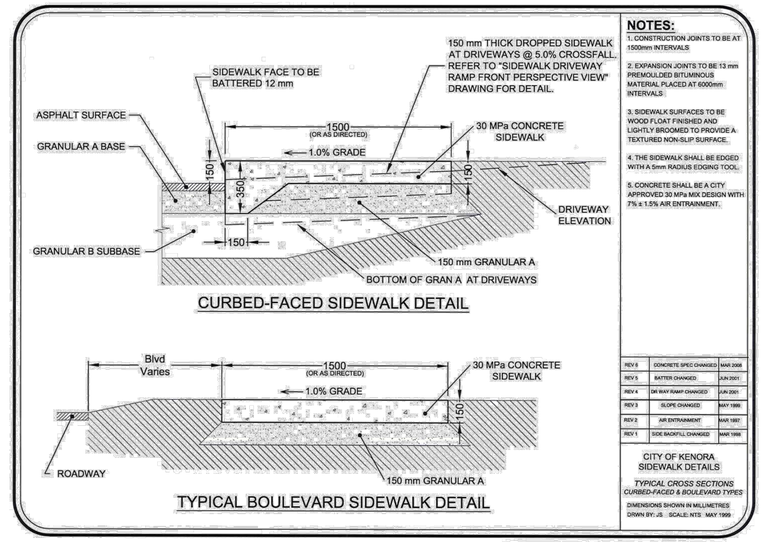
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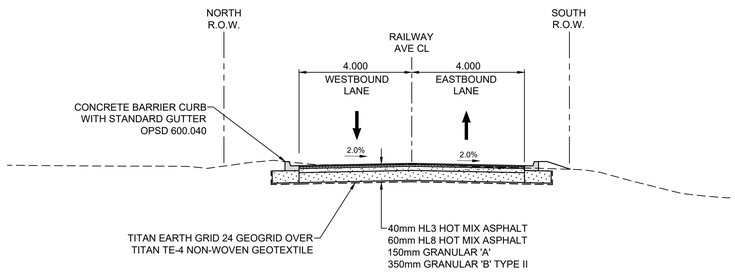
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RAILWAY ST - SECTION - STA 1+161.97

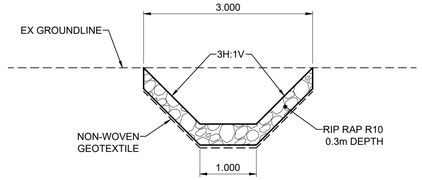
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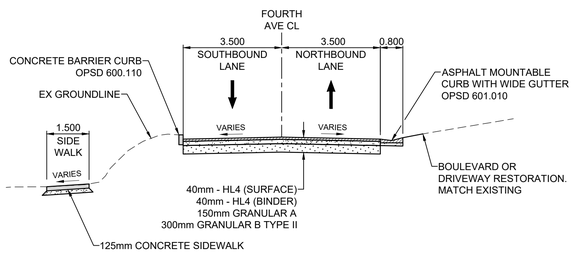
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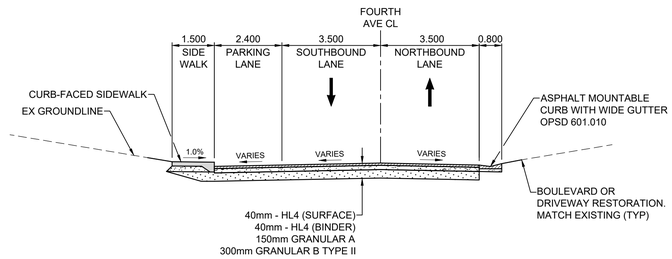
RIP RAP OUTLET DETAIL

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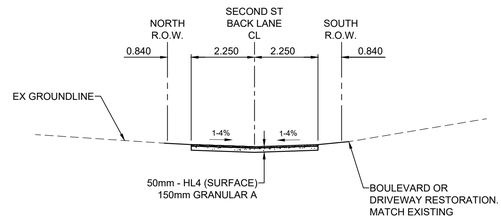
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0 SCALE 1:100 V 4.0m



FOURTH AVE - SECTION

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0 SCALE 1:100 V 4.0m



BACK LANE - SECTION

0 SCALE 1:100 H 4.0m
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METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

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2026/02/24 10:45 AM By: Lane, Dove

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Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	33.333
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.26
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-029		DML	MEE	GFC 2026.02.13
		Dwn.	Chkd.	Dsgn. YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER
M. E. EDGAR
100210594
FEB 26, 2026
PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

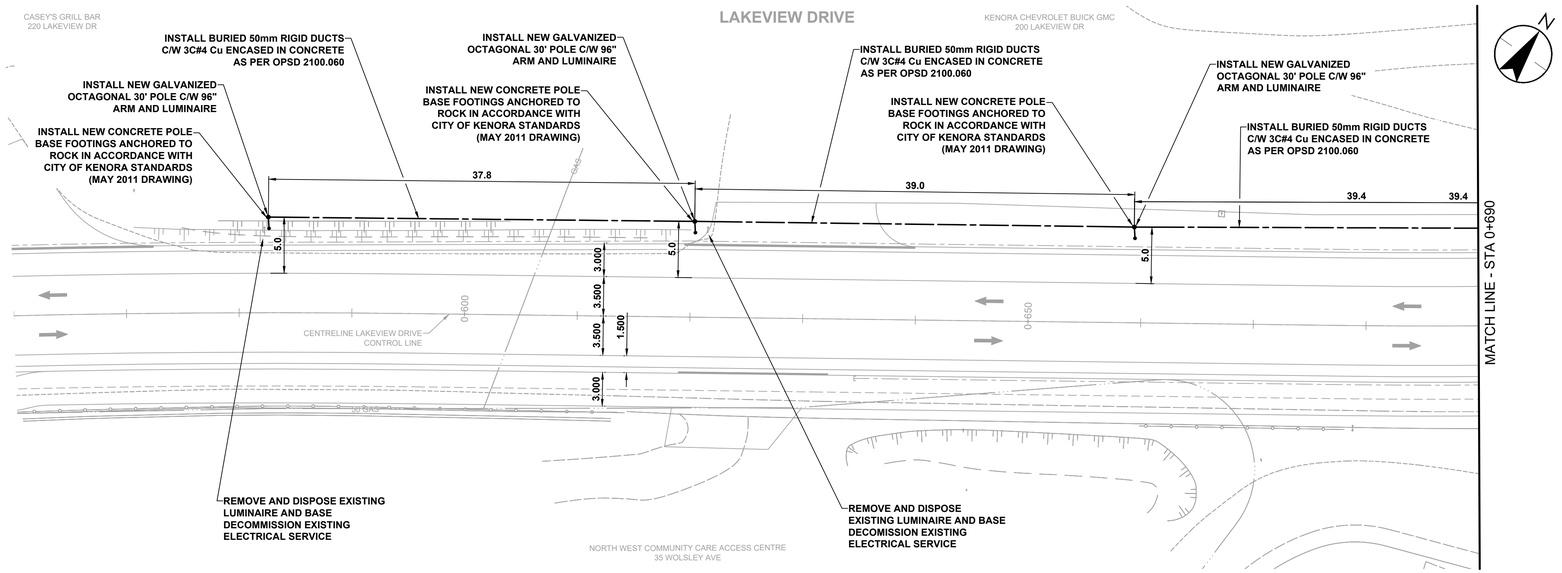
2026 MUNICIPAL PAVING PROGRAM

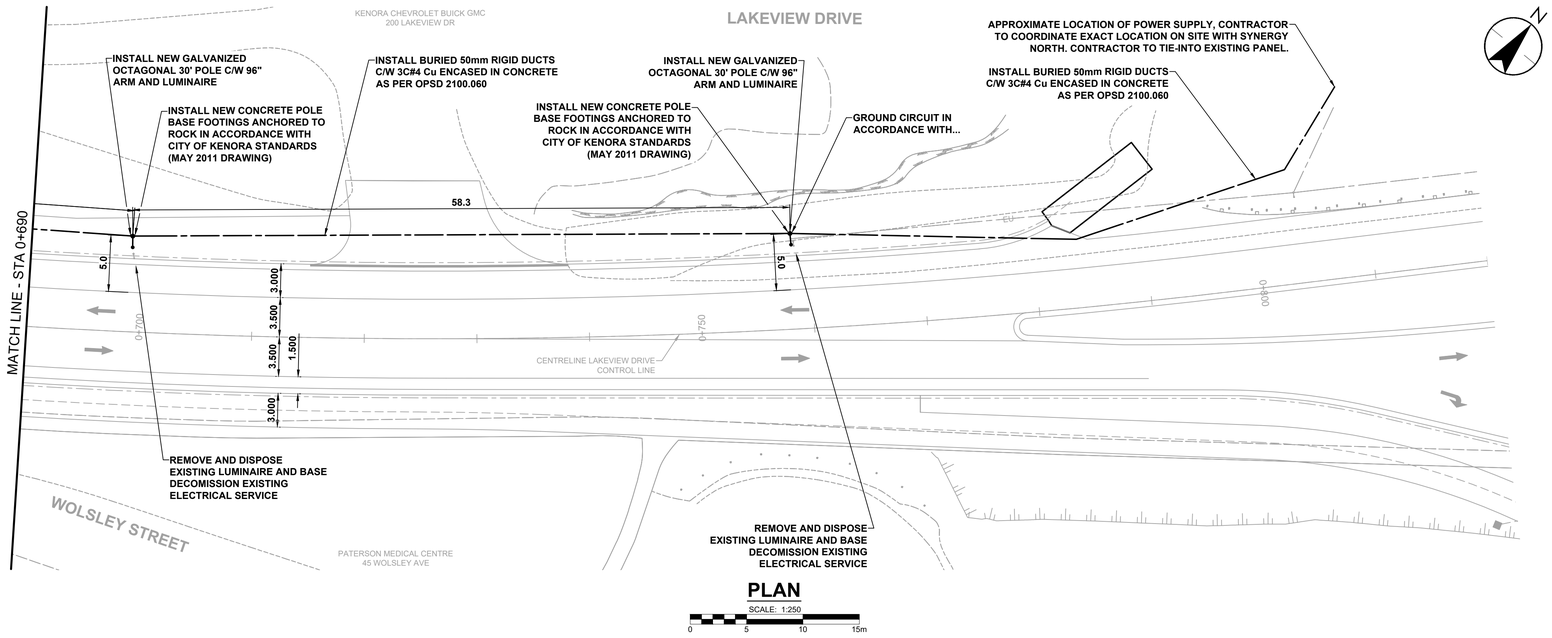
Title

SECTIONS & DETAILS

Project No.	Scale	
113708672	AS NOTED	
Drawing No.	Sheet	Revision
C-029	29 of 35	0

ORIGINAL SHEET - ARCH D (30" x 24")





PLAN

SCALE: 1:250

0 5 10 15m

NEW EQUIPMENT & LIGHTING SCHEDULE:

NEW LIGHTING ARM, HEAD & POLE
ROAD LIGHTING POLE, GALVANIZED STEEL, OCTAGON SHAFT, SQUARE BASE, 30' TALL, ALUMINUM ELLIPTICAL ARM, VALMONT, 8' X 48', ROADWAY LIGHTING HEAD, CREE LIGHTING, MODEL CREE XSPMD D HT 2ME 12L 40K7 UL SV N Q9. POLES TO BE PROVIDED WITH BREAK AWAY ASSEMBLY, REACTION PLATES, CAPS, STAINLESS STEEL GUARDS. MINIMUM STANDARD OF ACCEPTANCE IS RPE–TP9 BY SAFETY BASE LIMITED OR APPROVED EQUAL.

GENERAL NOTES:

1. INSTALL NEW POLE ALONG WITH LIGHT FIXTURE AND ARM. C/W NEW CONDUCTORS AS PER DETAILS ON DRAWING C–034.
2. INSTALL NEW UNDERGROUND CONDUCTORS AND CONDUIT AS PER PLAN. REFER TO TRENCH DETAILS FOR FURTHER INFORMATION.
3. ALL DUCTS AND WIRING RUN UNDERGROUND SHALL BE CSA COMPLIANT, RATED FOR UNDERGROUND INSTALLATION AND RATED FOR –40° C.

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Legend

EXISTING	LEGEND - PLAN	PROPOSED
◇	HYDRANT	
⊗	VALVE	
♂	CURB STOP	
○	MANHOLE	●
□	CATCH BASIN / CATCH PIT	■
△	CURB INLET	▲
○	POLE	
○⊸	LIGHT STANDARD	
○⊸	TRAFFIC SIGNAL POLE	
⊕	SURVEY BAR	
⊙	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	33.333
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.25
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-030		DML	MEE	GFC 2026.02.25
		Dwn.	Chkd.	Dsgn. YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER 100708672 2026.02.26 PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

Title

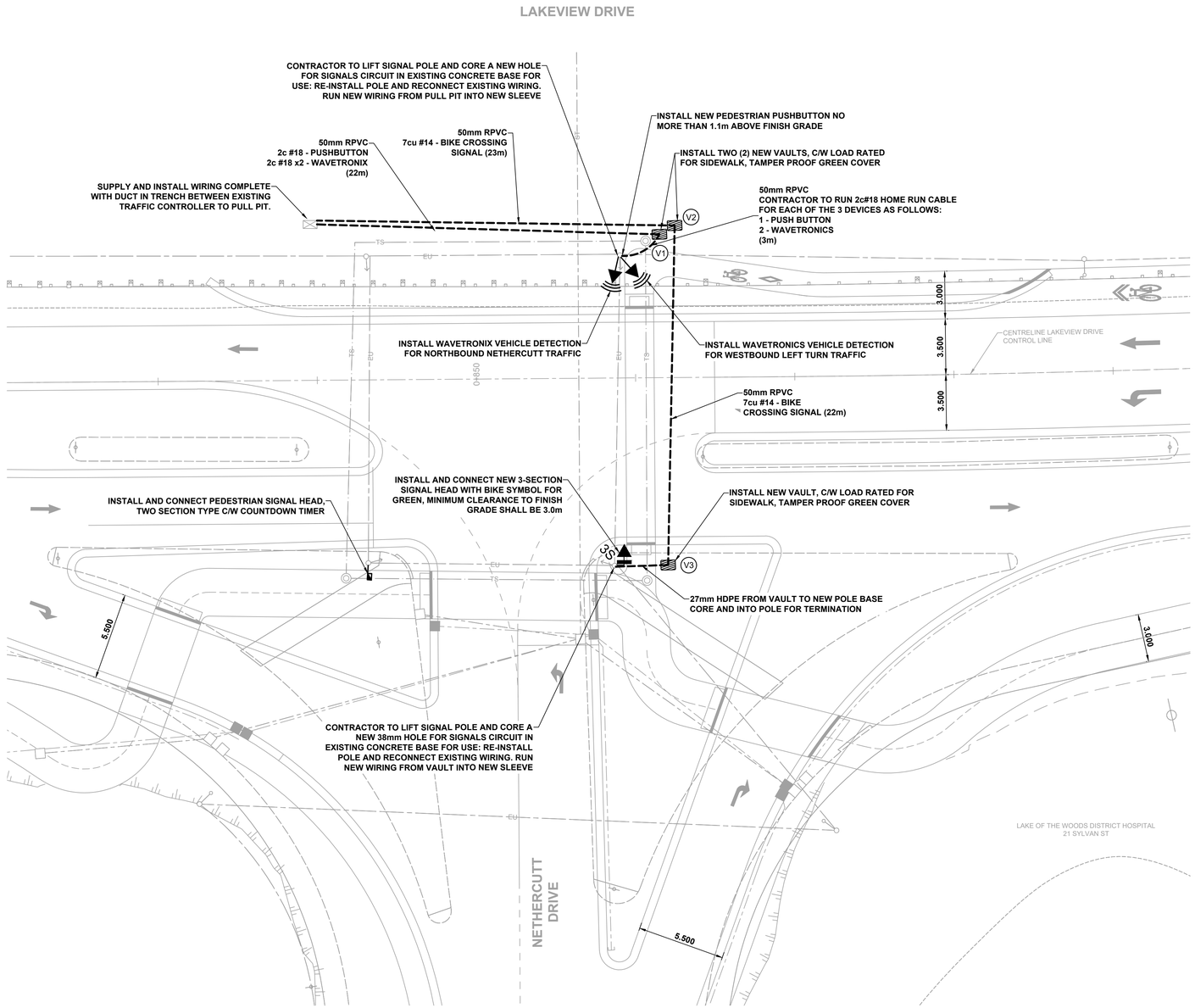
ELECTRICAL
LAKEVIEW DRIVE
STREET LIGHTING PLAN

Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-030	30 of 35	0

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

\\cd0045-pcfs01\shared_projects\113708672\0300_drawing\0302_sheet_files\02_civil\08672c-030.dwg C-030 Electrical Pt.1
2026/02/25 5:06 PM By: Lane, Dave

ORIGINAL SHEET - ARCH D 36" x 24"



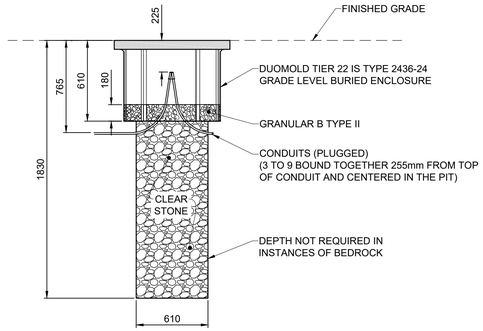
PLAN
SCALE: 1:150
0 4.0 8.0m

NEW EQUIPMENT & LIGHTING SCHEDULE:

NEW LIGHTING ARM, HEAD & POLE
ROAD LIGHTING POLE, GALVANIZED STEEL, OCTAGON SHAFT, SQUARE BASE, 30' TALL. ALUMINUM ELLIPTICAL ARM, VALMONT, 8' X 48'. ROADWAY LIGHTING HEAD, CREE LIGHTING, MODEL CREE XSPM D HT 2ME 12L 40K7 UL SV N Q9. POLES TO BE PROVIDED WITH BREAK AWAY ASSEMBLY, REACTION PLATES, CAPS, STAINLESS STEEL GUARDS. MINIMUM STANDARD OF ACCEPTANCE IS RPE–TP9 BY SAFETY BASE LIMITED OR APPROVED EQUAL.

GENERAL NOTES:

1. INSTALL NEW POLE ALONG WITH LIGHT FIXTURE AND ARM. C/W NEW CONDUCTORS AS PER DETAILS ON DRAWING C–034.
2. INSTALL NEW UNDERGROUND CONDUCTORS AND CONDUIT AS PER PLAN. REFER TO TRENCH DETAILS FOR FURTHER INFORMATION.
3. CROSS WALK TIMING SETTINGS TO BE MINIMUM 24s. CONTRACTOR TO ALLOW FOR COORDINATION AND REPROGRAMMING OF THE TIMING TO THE SATISFACTION OF CLIENT REPRESENTATIVE ON SITE.
4. ALL DUCTS AND WIRING RUN UNDERGROUND SHALL BE CSA COMPLIANT, RATED FOR UNDERGROUND INSTALLATION AND RATED FOR –40° C.
5. CONTRACTOR TO CARRY IN SCOPE DETAILED COORDINATION WITH TACEL AND PROVISION OF A DETAILED WIRING SCHEMATIC IDENTIFYING ALL FIELD DEVICES, REQUIRED TRAFFIC SIGNAL SYSTEM, CONTROLLERS, PUSH BUTTONS, WIRING HARNESSES, PATHWAYS AND POWER SOURCE AS PART OF SHOP DRAWING SUBMISSION. INSTALLATION TO BE FULL FUNCTIONAL UPON COMPLETION TO THE SATISFACTION OF THE ENGINEERS REPRESENTATIVE ON SITE.



VAULT DETAIL
SCALE: 1:20
0 0.5 1.0m

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

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KEY PLAN
LAKEVIEW DR

Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	(33.333)
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

	Issued/Revision	By	Appd.	YYYY.MM.DD
0	ISSUED FOR TENDER	GFC	MEE	2026.02.25

File Name: 08672c-031	Dwn.	Chkd.	Dsgn.	
	DML	MEE	GFC	2026.02.25 YYYY.MM.DD

Client Logo

Seal

LICENSED PROFESSIONAL ENGINEER
100170867
2026.02.26
PROVINCE OF ONTARIO

Client/Project
CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

Title
ELECTRICAL
LAKEVIEW DRIVE
TRAFFIC SIGNALS PLAN

Project No.	Scale	
113708672	1:150	
Drawing No.	Sheet	Revision
C-031	31 of 35	0

\\cn0045-spcfs01.shared_projects\113708672\0300_drawing\0302_sheet_files\V02_civil\08672c-031.dwg C-031 Electrical Pt2
2026/02/25 5:06 PM By: Lane, Dove

ORIGINAL SHEET - ARCH D 36" x 24"

KENORA-RAINY RIVER DISTRICTS
CHILD & FAMILY SERVICES
820 LAKEVIEW DR

PARSONS STREET

LAKEVIEW DRIVE

CO-OP
740 LAKEVIEW DR

CONC

ASPH

RETAINING WALL

INSTALL WAVERTRONIX VEHICLE DETECTION FOR SOUTHBOUND TRAFFIC

SUPPLY AND INSTALL NEW PEDESTRIAN SIGNAL HEAD C/W COUNTDOWN TIMER AND TOUCHLESS APB MOUNTED AS PER OPSD 2505.010

2 x 50mm HDPE 2m LENGTH

2 x 50mm HDPE 18m LENGTH

2 x 50mm HDPE 2m LENGTH

INSTALL WAVERTRONIX VEHICLE DETECTION FOR LEFT TURNS

2 x 50mm HDPE 18m LENGTH

REMOVE EXISTING 3-PHASE AND INSTALL NEW 4-PHASE LIGHTS WITH DIRECTIONAL (LEFT) ARROW

2 x 50mm HDPE 18m LENGTH

REMOVE EXISTING 3-PHASE AND INSTALL NEW 4-PHASE LIGHTS WITH DIRECTIONAL (LEFT) ARROW

INSTALL WAVERTRONIX VEHICLE DETECTION FOR LEFT TURNS

2 x 50mm HDPE 2m LENGTH

2 x 50mm HDPE 16m LENGTH

2 x 50mm HDPE 2m LENGTH

SUPPLY AND INSTALL NEW PEDESTRIAN SIGNAL HEAD C/W COUNTDOWN TIMER AND TOUCHLESS APB MOUNTED AS PER OPSD 2505.010

3 x 50mm HDPE 23m LENGTH

SUPPLY AND INSTALL NEW PEDESTRIAN SIGNAL HEAD C/W COUNTDOWN TIMER AND TOUCHLESS APB MOUNTED AS PER OPSD 2505.010

ASSUMED POWER SUPPLY LOCATION, CONTRACTOR TO COORDINATE WITH SYNERGY NORTH

INSTALL FOUR NEW PRECAST CONCRETE ELECTRICAL HANDHOLES AS PER OPSD 2112.010 (TYP)

REMOVE EXISTING TRAFFIC CABINET AND CONCRETE PAD, PROVIDE NEW CABINET AND MOUNT AS PER OPSD 2514.010, CONCRETE PAD AS PER OPSD 2514.020

SUPPLY AND INSTALL NEW TRAFFIC CABINET, PROVIDE UNDERGROUND WIRING AND CONNECT TO ALL FOUR QUADRANTS OF THE INTERSECTION

INSTALL WAVERTRONIX VEHICLE DETECTION FOR NORTHBOUND TRAFFIC

LAKE OF THE WOODS RAILROADERS MUSEUM

MINNESOTA STREET

BAY ROAD

3S 4S

3.000 1.500 3.500

50 GAS 32 GAS GRVL SAN HWY BUS

PLAN

SCALE: 1:150

0 4.0 8.0m

NEW EQUIPMENT & LIGHTING SCHEDULE:

1	NEW LIGHTING ARM, HEAD & POLE ROAD LIGHTING POLE, GALVANIZED STEEL, OCTAGON SHAFT, SQUARE BASE, 30' TALL. ALUMINUM ELLIPTICAL ARM, VALMONT, 8' X 48'. ROADWAY LIGHTING HEAD, CREE LIGHTING, MODEL CREE XSPMD D HT 2ME 12L 40K7 UL SV N Q9.

GENERAL NOTES:

1. INSTALL NEW POLE ALONG WITH LIGHT FIXTURE AND ARM. C/W NEW CONDUCTORS AS PER DETAILS ON DRAWING C-034.
2. INSTALL NEW UNDERGROUND CONDUCTORS AND CONDUIT AS PER PLAN. REFER TO TRENCH DETAILS FOR FURTHER INFORMATION.
3. ALL DUCTS AND WIRING RUN UNDERGROUND SHALL BE CSA COMPLIANT, RATED FOR UNDERGROUND INSTALLATION AND RATED FOR –40° C.
4. CONTRACTOR TO CARRY IN SCOPE DETAILED COORDINATION WITH TACEL AND PROVISION OF A DETAILED WIRING SCHEMATIC IDENTIFYING ALL FIELD DEVICES, REQUIRED TRAFFIC SIGNAL SYSTEM, CONTROLLERS, PUSH BUTTONS, WIRING HARNESSES, PATHWAYS AND POWER SOURCE AS PART OF SHOP DRAWING SUBMISSION. INSTALLATION TO BE FULL FUNCTIONAL UPON COMPLETION TO THE SATISFACTION OF THE ENGINEERS REPRESENTATIVE ON SITE.

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

\\ca0045.sprfs01\shared_projects\113708672\0300_drawing\0302_sheet_files\02_civil\08672c-032.dwg C-032 Electrical Pl.3
2026/02/25 3:06 PM By: Lane, Dave

Stantec

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Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	(33.333)
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

0	ISSUED FOR TENDER	GFC	MEE	2026.02.25
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-032		DML	MEE	GFC	2026.02.19
		Dwn.	Chkd.	Dsgn.	YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER 100708672 2026.02.25 PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

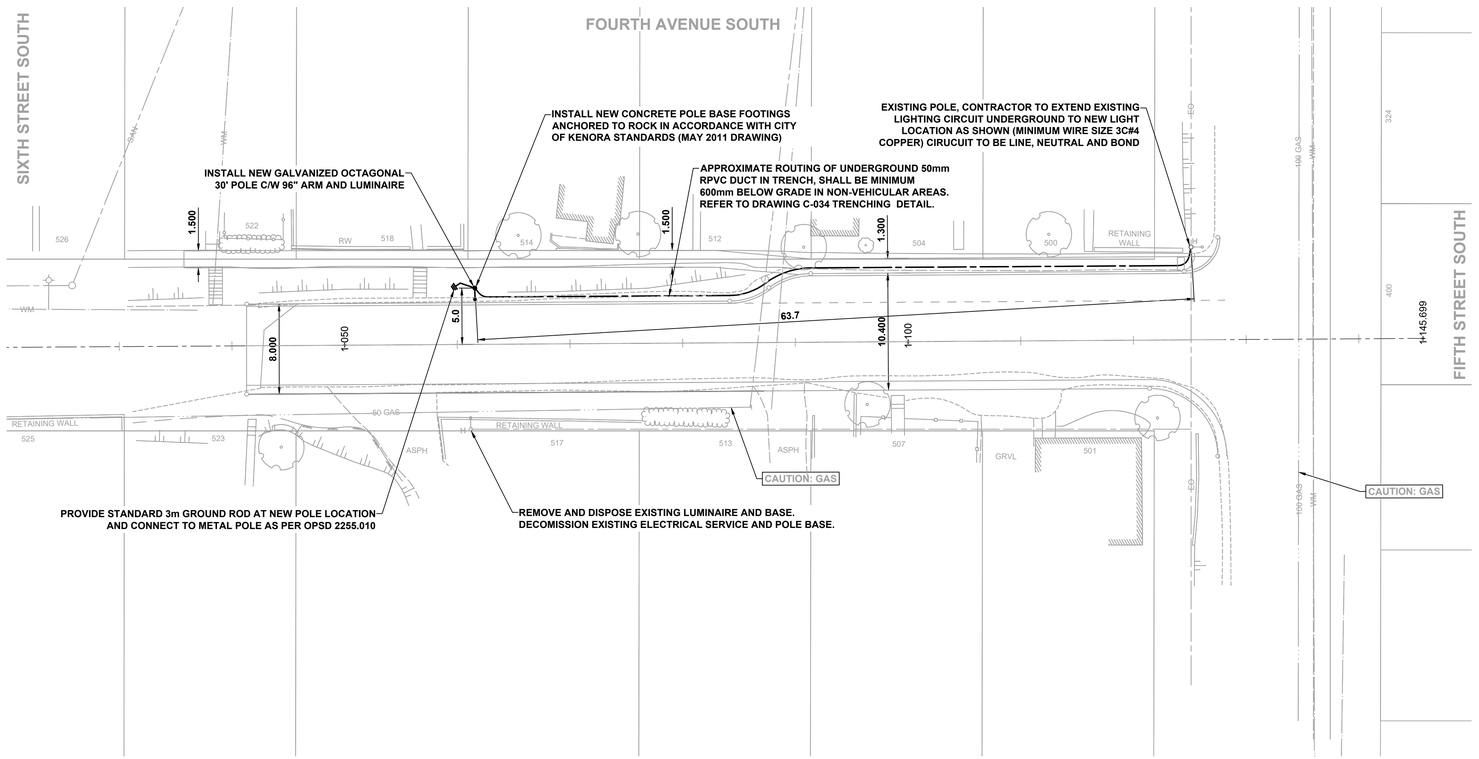
2026 MUNICIPAL PAVING PROGRAM

Title

ELECTRICAL
LAKEVIEW DR AT PARSONS STREET
TRAFFIC SIGNALS PLAN

Project No.	Scale	
113708672	1:150	
Drawing No.	Sheet	Revision
C-032	32 of 35	0

ORIGINAL SHEET - ARCH D (30" x 24")



PLAN

SCALE: 1:250

0 5 10 15m

NEW EQUIPMENT & LIGHTING SCHEDULE:

1. NEW LIGHTING ARM, HEAD & POLE
ROAD LIGHTING POLE, GALVANIZED STEEL, OCTAGON SHAFT, SQUARE BASE, 30' TALL. ALUMINUM ELLIPTICAL ARM, VALMONT, 8' X 48'. ROADWAY LIGHTING HEAD, CREE LIGHTING, MODEL CREE XSPMD D HT 2ME 12L 40K7 UL SV N Q9. POLES TO BE PROVIDED WITH BREAK AWAY ASSEMBLY, REACTION PLATES, CAPS, STAINLESS STEEL GUARDS. MINIMUM STANDARD OF ACCEPTANCE IS RPE-TP9 BY SAFETY BASE LIMITED OR APPROVED EQUAL.

GENERAL NOTES:

1. INSTALL NEW POLE ALONG WITH LIGHT FIXTURE AND ARM. C/W NEW CONDUCTORS AS PER DETAILS ON DRAWING C-034.
2. INSTALL NEW UNDERGROUND CONDUCTORS AND CONDUIT AS PER PLAN. REFER TO TRENCH DETAILS FOR FURTHER INFORMATION.
3. PROVIDE STAINLESS STEEL BANDING ON POLES FOR WIRES WHERE EXPOSED.
4. COORDINATE ALL WORK WITH SYNERGY NORTH. INSTALLATION TO BE IN FULL CONFORMANCE TO SYNERGY NORTH.
5. ALL DUCTS AND WIRING RUN UNDERGROUND SHALL BE CSA COMPLIANT, RATED FOR UNDERGROUND INSTALLATION AND RATED FOR -40° C.

Legend

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRANT	
	VALVE	
	CURB STOP	
	MANHOLE	●
	CATCH BASIN / CATCH PIT	■
	CURB INLET	▲
	POLE	
	LIGHT STANDARD	
	TRAFFIC SIGNAL POLE	
	SURVEY BAR	
	GEODETIC BENCH MARK	
	STORM / SANITARY MAIN	
	WATER MAIN	
	GAS	
	TRAFFIC SIGNALS	
	POWER	
	COMMUNICATIONS	
	CURB RENEWAL	
	PROPERTY LINE	
	RAMP CURB	
33.000	ELEVATIONS	(33.333)
	TREE / TREELINE	
	CONCRETE	
	CONC SIDEWALK / MEDIAN	
	ASPHALT	
	PAVING STONE	
	GRAVEL	
	PLANING / REMOVAL	
	DITCH FLOW	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	EXPOSED ROCK	
	CULVERT	
	SEWER FLOW DIRECTION	
TH-12	TEST HOLE / CORE HOLE	

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

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0	ISSUED FOR TENDER	GFC	MEE	2026.02.25
Issued/Revision		By	Appd.	YYYY.MM.DD
File Name: 08672c-033		DML	MEE	GFC	2026.02.25
		Dwn.	Chkd.	Dsgn.	YYYY.MM.DD

Client Logo

Lake of the Woods KENORA

Seal

LICENSED PROFESSIONAL ENGINEER 100113708672 2026.02.26 PROVINCE OF ONTARIO

Client/Project

CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

Title

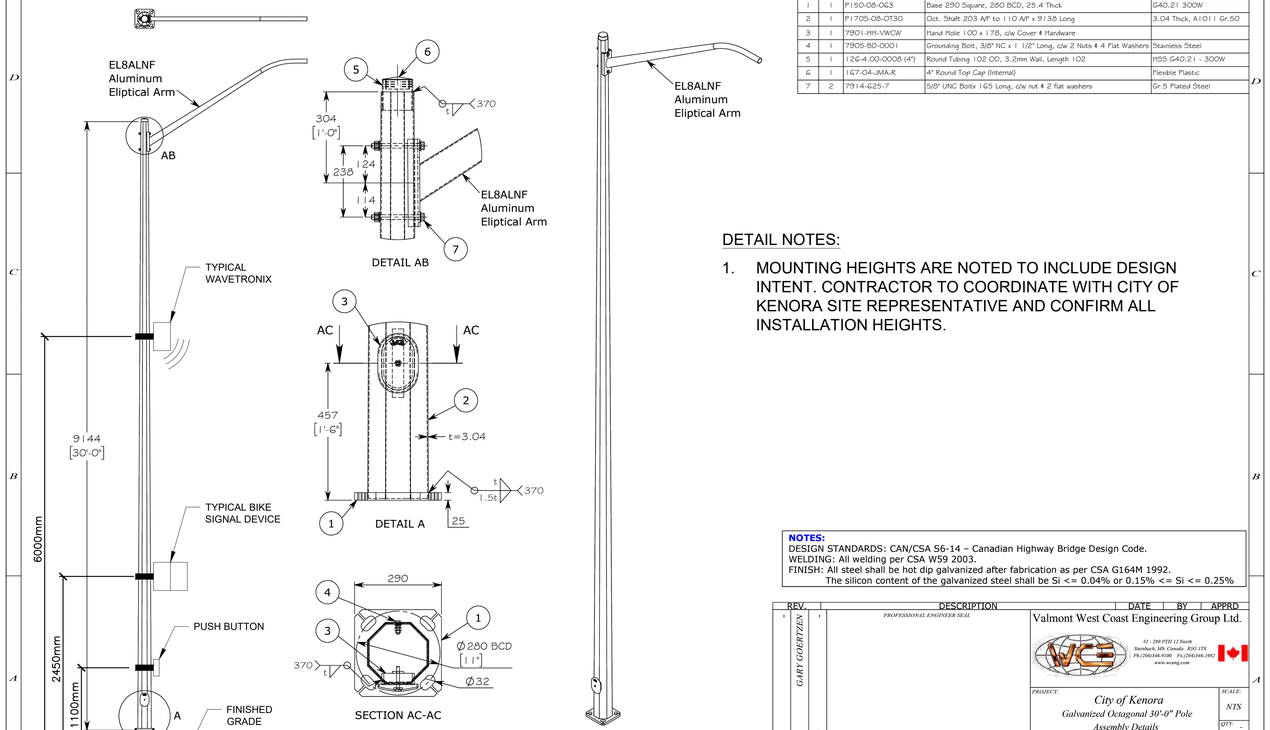
ELECTRICAL
FOURTH AVENUE SOUTH
STREET LIGHTING PLAN

Project No.	Scale	
113708672	1:250	
Drawing No.	Sheet	Revision
C-033	33 of 35	0

\\cn0045-pcfs01\shared_projects\113708672\0300_drawing\0302_sheet_files\02_civil\08672c-033.dwg C-033 Electrical Plt 4
2026/02/25 5:06 PM By: Lane, Dave

ORIGINAL SHEET - ARCH D (36" x 24")

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	MATERIAL
1	1	P150-08-063	Base 290 Square, 280 BCD, 25.4 Thck	G40.21 300W
2	1	P1705-08-0T30	Oct. Shaft 203 A/F to 110 A/F x 9136 Long	3.04 Thck, A1011 Gr.50
3	1	7901-HH-VWOW	Hand Hole 100 x 178, c/w Cover & Hardware	
4	1	7905-BD-0001	Grounding Bolt, 3/8" NC x 1 1/2" Long, c/w 2 Nuts & 4 Flat Washers	Stainless Steel
5	1	126-4.00-0008 (4")	Round Tubing 102 OD, 3.2mm Wall, Length 102	HSS G40.21 - 300W
6	1	167-04-JMA-R	4" Round Top Cap (Internal)	Flexible Plastic
7	2	7914-625-7	5/8" UNC Boltx 165 Long, c/w nut & 2 flat washers	Gr.5 Plated Steel



DETAIL NOTES:

1. MOUNTING HEIGHTS ARE NOTED TO INCLUDE DESIGN INTENT. CONTRACTOR TO COORDINATE WITH CITY OF KENORA SITE REPRESENTATIVE AND CONFIRM ALL INSTALLATION HEIGHTS.

NOTES:
DESIGN STANDARDS: CAN/CSA S6-14 – Canadian Highway Bridge Design Code.
WELDING: All welding per CSA W59 2003.
FINISH: All steel shall be hot dip galvanized after fabrication as per CSA G164M 1992.
The silicon content of the galvanized steel shall be Si <= 0.04% or 0.15% <= Si <= 0.25%

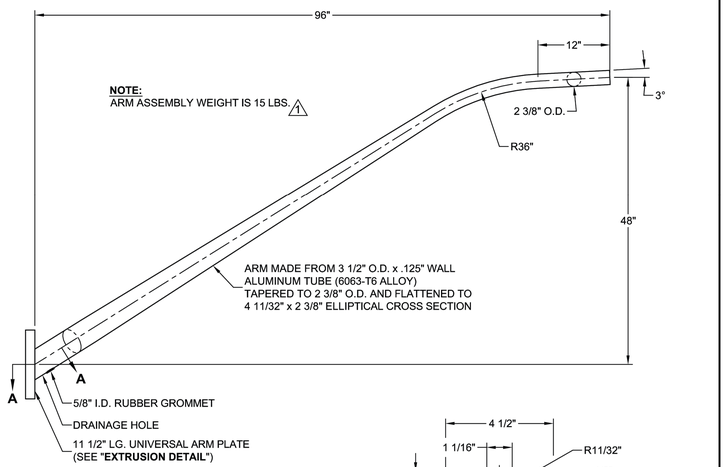
REV.	DESCRIPTION	DATE	BY	APPRD
1	ISSUED FOR TENDER	2011-05-19	GFC	MEE

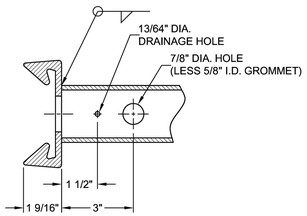
PROFESSIONAL ENGINEER SEAL — GARY GOERTZEN — DESIGNED — DRAWN — APPROVED — DATE: 19-Mar-2004

Valmont West Coast Engineering Group Ltd.
92 - 289 PTH 12 North, Steinbach, Mb. Canada R5G 1T8
Ph.(204)346-9100 Fx.(204)346-3982
www.wcecg.com

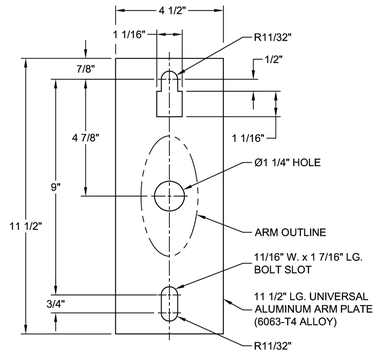
PROJECT: *City of Kenora*
Galvanized Octagonal 30'-0" Pole Assembly Details
DWG #: *9005-40-Kenora*
PART: *Valmont West coast Engineering*
SCALE: NTS
QTY: -
SHEET 1 of 1
REV. 0

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SECTION A-A



EXTRUSION DETAIL

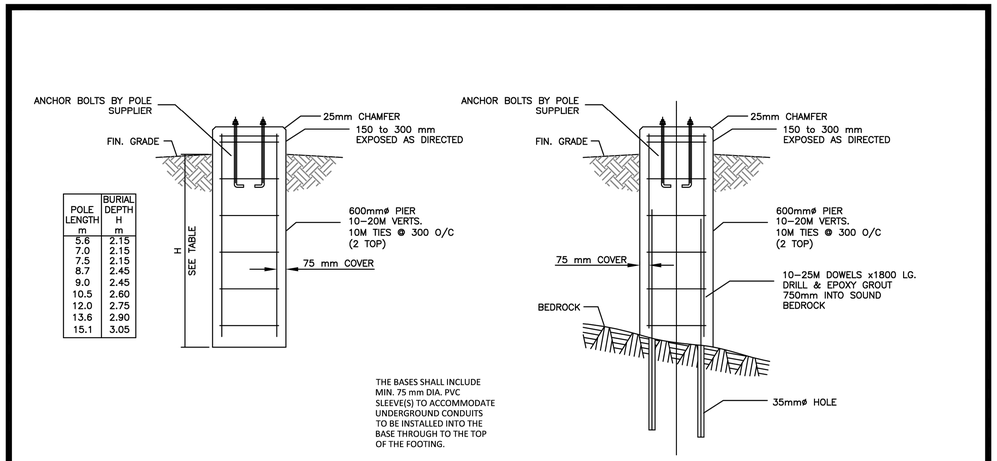
DO NOT SCALE

valmont

Valmont Industries, Inc. Structures Division
20805 Eaton Ave Farmington, Minnesota 55024-7932
Phone: (651) 463-8990 (800) 899-7577
Fax: (651) 463-3349

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TITLE: S 8' x 48" x 3.5" FS SGL MS UNIV CHNL - SPEC.				QTY: 100
MODEL NO.:				DWN BY: PTP
MATERIAL: ALUMINUM ALLOY				CHK'D BY:
FINISH: SATIN FINISH				
PROJECT:				APPR BY:
SOLD TO: VALMONT WEST COAST ENGINEERING				
SHIP TO:				DATE: 02-07-17
P.O. NO: P1111542B				
REP:				DWG NO: DR6625
1	02-17-17	ADDED ARM WEIGHT	PTP	PAGE: 2 / 6
REV	DATE	REVISION DESCRIPTION	BY	



POLE LENGTH m	BURIAL DEPTH H m
5.6	2.15
7.0	2.15
7.5	2.15
8.7	2.45
9.0	2.45
10.5	2.60
12.0	2.75
13.6	2.90
15.1	3.05

THE BASES SHALL INCLUDE MIN. 75 mm DIA. PVC SLEEVE(S) TO ACCOMMODATE UNDERGROUND CONDUITS TO BE INSTALLED INTO THE BASE THROUGH TO THE TOP OF THE FOOTING.

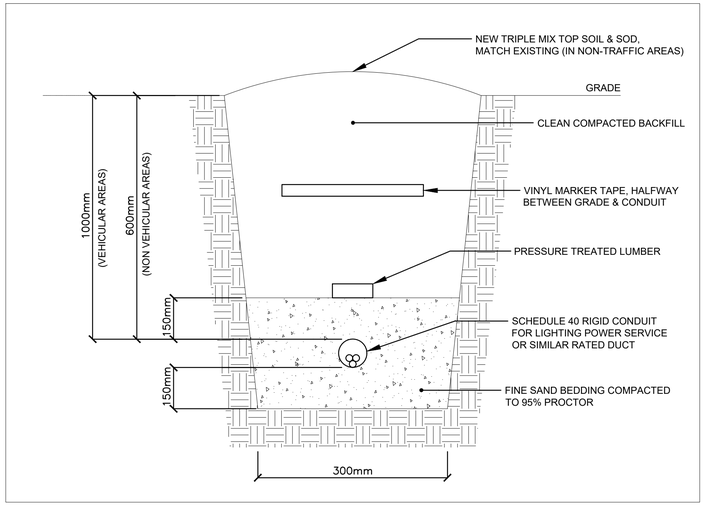
BURIAL INTO SOIL
NTS

ANCHOR TO ROCK
NTS

CONCRETE PROPERTIES

28 DAY COMP. STRENGTH	35 MPa
CEMENT	TYPE 10
W/C RATIO	0.45
AGGREGATE SIZE (MAX.)	20mm
ENTRAINED AIR	5%-7%
SLUMP (MAX.)	90mm (±15mm)

CITY OF KENORA
CONCRETE POLE BASE FOOTINGS
MAY 2011



TRENCH DETAIL – STREET LIGHTING AND SIGNALS CONDUITS
N.T.S.

Stantec

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Winnipeg MB Canada R3B 2B9
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Legend

0	ISSUED FOR TENDER	GFC	MEE	2026.02.25
	Issued/Revision	By	Appd.	YYYY.MM.DD
File Name: 08672c-034		DML	MEE	GFC 2026.02.25
		Dwn.	Chkd.	Dsgn. YYYY.MM.DD

Client Logo — Lake of the Woods KENORA

Seal — LICENSED PROFESSIONAL ENGINEER 100708672 2026.02.26 PROVINCE OF ONTARIO

Client/Project
CITY OF KENORA
2026 MUNICIPAL PAVING PROGRAM

Title
ELECTRICAL
PROJECT DETAILS

Project No.	Scale	
113708672	N.T.S.	
Drawing No.	Sheet	Revision
C-034	34 of 35	0

\\Cd0045-pxfs01\shared_projects\113708672\0300_drawing\0302_sheet_files\02_civil\08672c-034.dwg C-034 Electrical PL5
2026/02/25 5:06 PM By: Lane, Dove

ORIGINAL SHEET - ARCH D 30" x 24"

GENERAL CONDITION

THE INFORMATION CONTAINED IN THIS PACKAGE HAS BEEN PREPARED BASED ON INFORMATION PROVIDED BY THE CLIENT AND STAKEHOLDERS IN CONJUNCTION WITH DATA COLLECTED DURING THE SITE VISIT(S). IT IS PRESUMED THAT THE INFORMATION PROVIDED AND GATHERED IS ACCURATE, CORRECT AND UP TO DATE, INCLUDING ALL INFORMATION RELATED TO EXISTING AND NEW ELECTRICAL EQUIPMENT, COMPONENTS, AND INFRASTRUCTURE.

IT IS THE RESPONSIBILITY OF THE CLIENT, ELECTRICAL CONTRACTOR, OR STAKEHOLDERS TO ENSURE THAT ALL WORK IS PERFORMED IN CONFORMANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE, ONTARIO BUILDING CODE, AND ALL OTHER APPLICABLE CODES, STANDARDS, REGULATIONS, AND BYLAWS.

ELECTRICAL SPECIFICATIONS – DIVISION 26

1. GENERAL REQUIREMENTS
   - 1.1. REFER TO THE FRONT-END DOCUMENTS FOR ADDITIONAL REQUIREMENTS. THE FRONT-END SPECIFICATION SUPPLEMENTS THE REQUIREMENTS LISTED BELOW.
   - 1.2. THE WORK COVERED UNDER THIS SPECIFICATION INCLUDES THE SUPPLY, DELIVERY, INSTALLATION, AND TESTING OF LIGHT POSTS, LUMINAIRES, AND ASSOCIATED COMPONENTS FOR ROADWAY LIGHTING. THE CONTRACTOR WILL PROVIDE ALL NECESSARY LABOUR, EQUIPMENT, AND MATERIALS TO COMPLETE THE INSTALLATION IN ACCORDANCE WITH THE CONTRACT DRAWINGS, SPECIFICATIONS, AND APPLICABLE CODES AND STANDARDS.
   - 1.3. THE CONTRACTOR WILL ENSURE THAT ALL MATERIALS, EQUIPMENT, AND DEVICES ARE PROCURED, PLACED, INSTALLED, COMMISIONED, AND OPERATIONAL IN FULL COMPLIANCE WITH ALL APPLICABLE BYLAWS, CODES, STANDARDS, AND REGULATIONS IN CONJUNCTION WITH THE MANUFACTURER'S INSTALLATION MANUALS. SPECIFICATIONS WILL TAKE PRECEDENCE OVER DRAWINGS IN FORMING THE CONTRACT DOCUMENTS, AND THE CONTRACT DOCUMENTS WILL TAKE PRECEDENCE WHERE THEY EXCEED CODES, STANDARDS, AND REGULATIONS.
   - 1.4. ALL WORK WILL COMPLY WITH THE LATEST EDITIONS OF THE FOLLOWING STANDARDS AND REGULATIONS: ONTARIO PROVINCIAL STANDARDS (OPS), ONTARIO TRAFFIC MANUAL (OTM), ELECTRICAL SAFETY AUTHORITY (ESA) REQUIREMENTS, CANADIAN ELECTRICAL CODE (PART 1), AND THE ONTARIO ELECTRICAL SAFETY CODE (OESC). ADDITIONALLY, THE INSTALLATION MUST MEET THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) STANDARDS, CSA C22.2 NO. 250.0–18 FOR LED LIGHTING SAFETY, CAN/CSA–015–05 WOOD UTILITY POLES AND REINFORCING STUBS, CSA C22.2 NO.206 – LIGHTING POLES, CAN/CSA–080 SERIES–08 CONSOLIDATED WOOD PRESERVATION, THE AASHTO ROADWAY LIGHTING DESIGN GUIDE, AND THE MINISTRY OF TRANSPORTATION ONTARIO (MTO) SPECIFICATIONS.
   - 1.5. THE DRAWINGS, PLANS, AND DETAILS ARE DIAGRAMMATIC AND SYMBOLIC, INTENDED TO SHOW THE APPROXIMATE LOCATION OF ALL EQUIPMENT, DEVICES, AND COMPONENTS, UNLESS NOTED OTHERWISE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXACT LOCATIONS, MOUNTING HEIGHTS, AND ORIENTATIONS WITH STAKEHOLDERS, AS WELL AS ENSURING COMPLIANCE WITH RELEVANT CODES, STANDARDS, AND REGULATIONS PRIOR TO INSTALLATION.
   - 1.6. VERIFY THE DRAWING DIMENSIONS AGAINST ONSITE CONDITIONS AND SUPPLEMENTARY DRAWINGS. REPORT ANY DISCREPANCIES IN THE PROJECT DOCUMENTS BEFORE PROCEEDING WITH THE WORK. ANY MODIFICATIONS, ALTERATIONS OR SUBSTITUTIONS MUST BE SUBMITTED FOR REVIEW AND APPROVED IN WRITING.

2. TENDER REQUIREMENTS
   - 2.1. REFER TO THE FRONT-END DOCUMENTS FOR ADDITIONAL REQUIREMENTS. THE FRONT-END SPECIFICATION SUPPLEMENTS THE REQUIREMENTS LISTED BELOW.
   - 2.2. BIDDERS WILL REVIEW ALL SITE CONDITIONS, INCLUDING UTILITIES, SYSTEMS, AND ON-SITE CONDITIONS, PRIOR TO SUBMITTING A BID. OBTAIN CLARIFICATION WHERE NECESSARY PRIOR TO SUBMITTING THE TENDER.
   - 2.3. ENSURE THAT ALL CONTRACT DRAWINGS, FRONT-END AND TECHNICAL SPECIFICATIONS, AND ALL ASSOCIATED TENDER DOCUMENTS ARE REVIEWED AND ACCOUNTED FOR IN THE TENDER AND CONSTRUCTION OF THE WORK.

3. CONSTRUCTION ADMINISTRATION REQUIREMENTS
   - 3.1. REFER TO THE FRONT-END DOCUMENTS FOR ADDITIONAL REQUIREMENTS. THE FRONT-END SPECIFICATION SUPPLEMENTS THE REQUIREMENTS LISTED BELOW. THE CONTRACTOR IS TO REVIEW THE INFORMATION BELOW AND VERIFY ALL CONSTRUCTION ADMINISTRATION REQUIREMENTS WITH THE STAKEHOLDERS. ENSURE THAT ALL CONTRACT DRAWINGS, FRONT-END AND TECHNICAL SPECIFICATIONS, AND ALL ASSOCIATED CONSTRUCTION ADMINISTRATION DOCUMENTS ARE REVIEWED AND ACCOUNTED FOR DURING THE CONSTRUCTION OF THE WORK.
   - 3.2. PRIOR TO INSTALLATION, THE CONTRACTOR WILL SUBMIT THE FOLLOWING FOR APPROVAL: PRODUCT DATA SHEETS AND SPECIFICATIONS FOR ALL LUMINAIRES, POLES, AND MOUNTING HARDWARE; SHOP DRAWINGS INDICATING POLE FOUNDATION DETAILS, CONDUIT ROUTING, LIGHT POSTS, HARDWARE, MOUNTING HARDWARE, EQUIPMENT, LIGHTING FIXTURES AND MOUNTING ARRANGEMENTS; PHOTOMETRIC CALCULATIONS DEMONSTRATING COMPLIANCE WITH DESIGN LIGHTING LEVELS; ESA INSPECTION AND APPROVAL DOCUMENTATION; AND WARRANTY INFORMATION.
   - 3.3. THE CONTRACTOR WILL SUBMIT THE OPERATION AND MAINTENANCE MANUAL FOR REVIEW, COMMENT, AND APPROVAL. ONCE ALL STAKEHOLDERS ARE SATISFIED, THREE (3) COPIES WILL BE SUBMITTED.
   - 3.4. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL SUBMIT ONE COMPLETE SET OF "AS–BUILT" FULL–SIZE DRAWINGS, SPECIFICATIONS, AND RELATED DOCUMENTS FOR REVIEW, COMMENT, AND ACCEPTANCE, INCLUDING ANY NECESSARY CHANGES, REVISIONS, AND REDLINES. THE "AS–BUILT" PROJECT DOCUMENTS WILL CAPTURE ALL DEVIATIONS FROM THE ORIGINAL PROJECT DOCUMENTS, INCLUDING CHANGE ORDERS, FIELD CHANGES, AND SITE CONDITIONS, IN A CLEAR, LEGIBLE, AND IDENTIFIABLE MANNER. UTILIZE A RED FINE–TIP PEN FOR ALL MARKUPS. AS–BUILT MARKUPS ARE TO INCLUDE ALL JUNCTION BOXES, PULL BOXES, AND ROUTING OF CABLING AND CONDUITS, COMPLETE WITH DIMENSIONS AND ANY DEVIATION FROM THE CONTRACT DOCUMENTS.
   - 3.5. THE CONTRACTOR WILL PROVIDE A MINIMUM 5–YEAR WARRANTY FOR ALL LUMINAIRES AND ELECTRICAL COMPONENTS AS WELL AS A 1–YEAR WARRANTY FOR WORKMANSHIP. THE WARRANTY WILL INCLUDE ALL WORKMANSHIP, EQUIPMENT, DEVICES, AND COMPONENTS IN THEIR ENTIRETY.

4. HEALTH AND SAFETY REQUIREMENTS
   - 4.1. REFER TO THE FRONT-END DOCUMENTS FOR ADDITIONAL REQUIREMENTS. THE FRONT-END SPECIFICATION SUPPLEMENTS THE REQUIREMENTS LISTED BELOW.
   - 4.2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THE SAFETY OF THE CONSTRUCTION SITE AND FOR COMPLYING WITH ALL RULES, REGULATIONS, AND PRACTICES REQUIRED BY THE APPLICABLE CONSTRUCTION SAFETY LEGISLATION AND OTHER RELEVANT AUTHORITIES WITH JURISDICTION. THE CONTRACTOR WILL FOLLOW AND ABIDE BY ALL CSA–Z462 WORKPLACE ELECTRICAL SAFETY AND OCCUPATIONAL HEALTH AND SAFETY REQUIREMENTS, AS WELL AS ALL APPLICABLE STANDARDS, CODES, AND REGULATIONS RELATED TO THE HEALTH AND SAFETY OF WORKERS, STAKEHOLDERS, AND THE PUBLIC.
   - 4.3. THE CONTRACTOR WILL ENSURE THAT ALL ON–SITE PERSONNEL, STAKEHOLDERS, AND THE PUBLIC ARE AWARE OF ON–SITE HAZARDS, REQUIRED SAFETY TRAINING, AND ORIENTATION AND THAT ALL RELEVANT HEALTH AND SAFETY TRAINING IS COMPLETED PRIOR TO ACCESSING THE WORK SITE, INCLUDING WHMIS TRAINING.
   - 4.4. THE CONTRACTORS WILL COORDINATE ALL WORK TO AVOID ANY ADVERSE EFFECTS ON DAY–TO–DAY OPERATIONS AND ENSURE THAT ALL SAFETY BARRIERS, PROTECTION, HEALTH, AND SAFETY PROTOCOLS ARE ALWAYS IN PLACE. THE WORKSPACE WILL BE KEPT ORDERLY AND FREE FROM THE ACCUMULATION OF MATERIALS, EQUIPMENT, TOOLS, AND DEBRIS.

5. DEMOLITION REQUIREMENTS
   - 5.1. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE DEMOLITION AREA IS SAFE AND THAT ALL SAFETY PROCEDURES ARE FOLLOWED. DEMOLITION MUST BE COMPLETED IN A CONTROLLED MANNER TO ALLOW FUTURE CONSTRUCTION, WITH ALL DEBRIS REMOVED AND DISPOSED OF DAILY.
   - 5.2. TO PROTECT PUBLICLY OCCUPIED AREAS, THE CONTRACTOR WILL INSTALL SAFETY AND DUST–PROOF BARRIERS. ADJACENT AREAS, FURNITURE, AND EQUIPMENT MUST BE PROTECTED FROM DAMAGE, AND ALL NECESSARY PRECAUTIONS MUST BE TAKEN TO PREVENT DISRUPTION.
   - 5.3. MATERIALS REMOVED DURING DEMOLITION REMAIN THE PROPERTY OF THE OWNER, WITH THE OWNER HAVING THE FIRST RIGHT TO CLAIM THEM. ANY UNCLAIMED ITEMS MUST BE REMOVED AND DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH REGULATIONS.
   - 5.4. THE CONTRACTOR WILL REFER TO FRONT–END DOCUMENTS FOR ADDITIONAL REQUIREMENTS AND VERIFY ALL DEMOLITION DETAILS WITH STAKEHOLDERS BEFORE PROCEEDING. NO WORK WILL BEGIN WITHOUT A COMPLETE UNDERSTANDING OF THE SCOPE AND APPROACH.
   - 5.5. OBSOLETE OR UNNECESSARY EQUIPMENT, COMPONENTS, FIXTURES, CABLING, AND WIRING MUST BE DECOMMISSIONED, REMOVED, AND DISPOSED OF.

6. CONSTRUCTION REQUIREMENTS
   - 6.1. REFER TO FRONT–END DOCUMENTS FOR ADDITIONAL REQUIREMENTS. THE FRONT–END SPECIFICATION SUPPLEMENTS THE REQUIREMENTS LISTED BELOW. THE CONTRACTOR IS TO REVIEW THE INFORMATION BELOW AND VERIFY ALL CONSTRUCTION REQUIREMENTS WITH THE STAKEHOLDERS.
   - 6.2. THE CONTRACTOR WILL OBTAIN THE MINISTRY OF LABOUR PERMIT (WHERE APPLICABLE), A NOTICE OF PROJECT (WHERE APPLICABLE), POWER UTILITY CONTRACTS (WHERE APPLICABLE) AND AN ELECTRICAL SAFETY AUTHORITY PERMIT AND PAY FOR ALL ASSOCIATED SERVICES, COMMISSIONING, VERIFICATION, PERMITS AND FEES BEFORE EXECUTION OF WORK, COORDINATE ALL REQUIRED INSPECTIONS AND SUBMIT ALL DOCUMENTATION, INCLUDING ESA'S ROUGH–IN, FINAL & CERTIFICATE OF ACCEPTANCE AT THE COMPLETION OF THE WORK AND PRIOR TO FINAL PAYMENT.
   - 6.3. THE CONTRACTOR WILL COORDINATE ALL WORK WITH ALL OTHER CONTRACTORS, SUB–TRADES, AND STAKEHOLDERS TO AVOID ADVERSE OUTCOMES, INCLUDING INTERFERENCES, RE–WORK, AND DELAYS. ITEMS OF CONCERN WILL BE IDENTIFIED AND RESOLVED PRIOR TO COMMENCING WORK. OBSERVE AND COMPLY WITH ALL REQUIREMENTS FOR FIRE PREVENTION, SECURITY, SAFETY, AND SCHEDULING AND EXECUTION OF THE WORK.
   - 6.4. THE CONTRACTOR WILL PROCURE, SUPPLY, PROVIDE, AND ACCOUNT FOR ALL LABOUR, EQUIPMENT, MATERIALS, DEVICES, HARDWARE, COMPONENTS, ACCESSORIES, AND MISCELLANEOUS ITEMS, TOOLS, TEMPORARY POWER, AND LIGHTING REQUIRED TO EXECUTE THE WORK AND PROVIDE A FULLY CONSTRUCTED, COMPLETED, INSTALLED, TESTED, COMMISSIONED, ADJUSTED, AND OPERATIONAL SYSTEM, EQUIPMENT, OR DEVICE FULLY FINISHED AND READY FOR USE. ALL WORK IS TO BE COMPLETED WITH FIRST–CLASS WORKMANSHIP AND IN A NEAT AND ORGANIZED MANNER, ADHERING TO ALL CONTRACT DOCUMENTS.
   - 6.5. DURING AND UPON COMPLETION OF THE WORK, ALL WASTE MATERIAL WILL BE REMOVED FROM THE SITE, AND ALL EQUIPMENT, DEVICES, AND AREAS WILL BE CLEANED TO THE OWNER'S SOLE SATISFACTION, RETURNING THEM TO NEW CONDITIONS.

7. GENERAL EXECUTION REQUIREMENTS
   - 7.1. REFER TO FRONT–END DOCUMENTS FOR ADDITIONAL REQUIREMENTS. THE FRONT–END SPECIFICATION SUPPLEMENTS THE REQUIREMENTS LISTED BELOW.
   - 7.2. ALL WORK SPECIFIED IS TO BE COMPLETED BY AN ELECTRICAL CONTRACTOR AND ASSOCIATED ELECTRICIANS LICENSED TO PERFORM ELECTRICAL WORK IN THE PROVINCE OF ONTARIO, AS PER THE REQUIREMENTS OUTLINED BY THE ELECTRICAL SAFETY AUTHORITY.
   - 7.3. ALL MATERIALS AND WORKMANSHIP WILL BE OF THE HIGHEST QUALITY AND FREE FROM DEFECTS. THE CONTRACTOR EMPLOYS ONLY QUALIFIED AND LICENSED ELECTRICIANS FOR THE INSTALLATION. TESTING AND COMMISSIONING WILL BE PERFORMED TO VERIFY COMPLIANCE WITH SPECIFICATIONS.
   - 7.4. COMPLETE ALL PUBLIC AND PRIVATE LOCATES AS REQUIRED BY THE SCOPE OF WORK, APPLICABLE STANDARDS, REGULATIONS, AND AUTHORITIES HAVING JURISDICTION PRIOR TO THE COMMENCEMENT OF WORK.
   - 7.5. THE CONTRACTOR WILL ENSURE THAT ALL EQUIPMENT, SYSTEMS, DEVICES, AND COMPONENTS ARE FULLY INSTALLED, ENERGIZED, TESTED, SET UP, AND COMMISSIONED ACCORDING TO THE DRAWINGS' INTENT AND THE MANUFACTURER'S INSTRUCTIONS AND TO THE SATISFACTION OF STAKEHOLDERS.
   - 7.6. WITHOUT ADDITIONAL COST, ALLOW FOR THE RELOCATION OF ANY FIXTURE, DEVICE, OR COMPONENT UP TO 5 METERS PRIOR TO INSTALLATION AND DOCUMENT IT ON THE AS–BUILT RECORD DRAWINGS. ENSURE ALL EQUIPMENT IS INSTALLED TO MINIMIZE INTERFERENCE WITH ALL ACCESS AND WORKING CLEARANCES AROUND EXISTING, MODIFIED, RELOCATED AND NEW EQUIPMENT.
   - 7.7. BEFORE COMMENCING THE INSTALLATION, THE CONTRACTOR WILL VERIFY ALL EXISTING UNDERGROUND UTILITIES AND PERFORM TRENCHING AND BACKFILLING IN ACCORDANCE WITH OPS STANDARDS. PROPER COMPACTION OF BACKFILLED MATERIAL WILL BE ENSURED TO PREVENT FUTURE SETTLEMENT. TEMPORARY TRAFFIC CONTROL AND SIGNAGE WILL BE PROVIDED IN COMPLIANCE WITH THE ONTARIO TRAFFIC MANUAL (OTM).

8. GENERAL PRODUCT REQUIREMENT
   - 8.1. REFER TO FRONT–END DOCUMENTS FOR ADDITIONAL REQUIREMENTS. THE FRONT–END SPECIFICATION SUPPLEMENTS THE REQUIREMENTS LISTED BELOW.
   - 8.2. ALL MATERIALS, EQUIPMENT, AND DEVICES FOR THIS PROJECT WILL BE NEW, WITHOUT DEFECTS, AND OF A MINIMUM COMMERCIAL GRADE, CERTIFIED TO CSA, UL, OR EQUIVALENT STANDARDS.
   - 8.3. DELIVER, STORE AND HANDLE MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
   - 8.4. ALL LINE–VOLTAGE CABLES AND CONDUCTORS WILL BE COPPER UNLESS SPECIFIED OTHERWISE. ALL CABLING WILL BE TECK90 FOR EXTERIOR SPACES, WITH NMD90 CABLING PROHIBITED FROM USE WITHIN INTERIOR OR EXTERIOR SPACES.
   - 8.5. OUTDOOR CONDUCTORS IN CONDUIT WILL BE RW90, TW90, AND ALL UNDERGROUND CONDUCTORS WILL BE RWU90, TWU90––ALL CONDUCTORS AND CABLING TO BE RATED FOR 600V FOR 120/208/240V SYSTEMS AND 1000V FOR 600V SYSTEMS.
   - 8.6. ALL EXTERIOR CONDUITS WILL BE RIGID OR FLEXIBLE PVC CONDUITS. ALL CONDUITS WILL BE INSTALLED ENTIRELY WITH AN INSULATED GREEN BONDING CONDUCTOR.
   - 8.7. ALL CONDUCTORS ARE TO BE SIZED IN ACCORDANCE WITH OVERCURRENT PROTECTION AND CONFORMANCE WITH THE OESC. INCREASE CONDUCTOR SIZE AS REQUIRED TO ENSURE THAT VOLTAGE DROP UNDER FULL OPERATING VOLTAGE IS MAINTAINED BELOW 3% AT THE FURTHEST DEVICE, LIGHTING FIXTURE, RECEPTACLE, DEVICE, OR EQUIPMENT.
   - 8.8. THE OWNER WILL REVIEW, APPROVE, COORDINATE, AND ACCEPT THE MATERIAL TYPES, COLOURS, AND FINISHES OF ALL FIXTURES, EQUIPMENT, AND SIMILAR DEVICES WHERE REQUIRED OR APPLICABLE.

9. LABELLING REQUIREMENTS
   - 9.1. ALL EQUIPMENT AND DEVICES WILL BE LABELLED WITH EQUIPMENT TAGS, DESIGNATIONS, AND INFORMATION IN CONJUNCTION WITH ALL WARNING LABELS, INCLUDING ELECTROCUTION, ARC FLASH, AND PROXIMITY WARNINGS.

10. ROADWAY LIGHTING
   - 10.1. THE CONTRACTOR WILL VERIFY ALL EXISTING LIGHTING FIXTURES AND CONTROLS, WHERE APPLICABLE, TO ENSURE OPERATING SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO OPERATING VOLTAGE, DIMMABLE CAPACITIES, AND INSTALLATION PARAMETERS, PRIOR TO THE REMOVAL OF THE EXISTING FIXTURES AND THE PROCUREMENT AND INSTALLATION OF NEW ONES. ALL EXISTING DEVICES ARE TO BE REMOVED ONLY ONCE THE NEW DEVICES HAVE ARRIVED ONSITE, HAVE BEEN INSPECTED FOR DAMAGE, AND HAVE BEEN CONFIRMED TO BE COMPATIBLE WITH THE REPLACEMENT OF THE EXISTING DEVICES.
   - 10.2. THE WORK COVERED UNDER THIS SPECIFICATION INCLUDES THE SUPPLY, DELIVERY, INSTALLATION, AND TESTING OF LIGHT POSTS, LUMINAIRES, AND ASSOCIATED COMPONENTS FOR ROADWAY LIGHTING. THE CONTRACTOR WILL PROVIDE ALL NECESSARY LABOUR, EQUIPMENT, AND MATERIALS TO COMPLETE THE INSTALLATION IN ACCORDANCE WITH THE CONTRACT DRAWINGS, SPECIFICATIONS, AND APPLICABLE CODES AND STANDARDS.
   - 10.3. ALL WORK WILL COMPLY WITH THE LATEST EDITIONS OF THE FOLLOWING STANDARDS AND REGULATIONS: ONTARIO PROVINCIAL STANDARDS (OPS), ONTARIO TRAFFIC MANUAL (OTM), ELECTRICAL SAFETY AUTHORITY (ESA) REQUIREMENTS, CANADIAN ELECTRICAL CODE (PART 1), AND THE ONTARIO ELECTRICAL SAFETY CODE (OESC). ADDITIONALLY, THE INSTALLATION MUST MEET THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) STANDARDS, CSA C22.2 NO. 250.0–18 FOR LED LIGHTING SAFETY, CAN/CSA–015–05 WOOD UTILITY POLES AND REINFORCING STUBS, CSA C22.2 NO.206 – LIGHTING POLES, CAN/CSA–080 SERIES–08 CONSOLIDATED WOOD PRESERVATION, THE AASHTO ROADWAY LIGHTING DESIGN GUIDE, AND THE MINISTRY OF TRANSPORTATION ONTARIO (MTO) SPECIFICATIONS.
   - 10.4. INSTALL NEW LIGHTING FIXTURES AS SHOWN ONCE ALL SITE CONDITIONS ARE VERIFIED. ADJUST, MODIFY, OR REMOVE ALL EXISTING CABLING, CONDUIT, CONDUCTORS, DEVICE BOXES, AND OTHER RELATED COMPONENTS. TO FACILITATE THE REMOVAL AND RELOCATION OF EXISTING FIXTURES AND THE INSTALLATION OF NEW FIXTURES. INSTALL LUMINAIRE MOUNTING BRACKET AS REQUIRED.
   - 10.5. THE CONTRACTOR WILL ADJUST ALL LIGHTING FIXTURES, FIELD ADJUSTABLE SETTINGS, AND ASSOCIATED LIGHTING CONTROLS TO THE SOLE SATISFACTION OF THE STAKEHOLDERS.
   - 10.6. THE LIGHT POSTS WILL BE CONSTRUCTED AS SPECIFIED FROM HOT–DIP GALVANIZED STEEL OR ALUMINUM, WITH HEIGHTS SPECIFIED IN THE DRAWINGS, TYPICALLY RANGING FROM 8M TO 12M FOR ROADWAY APPLICATIONS. THE POLES WILL HAVE A FINISH SPECIFIED ON THE DRAWINGS, A FLANGED BASE WITH BOLT COVERS, AND BE RATED TO WITHSTAND WIND LOADS IN ACCORDANCE WITH THE MTO AND CSA STANDARDS FOR ONTARIO WEATHER CONDITIONS. EACH POLE WILL BE EQUIPPED WITH WEATHERPROOF HANDHOLES WITH COVERS LOCATED AT AN ACCESSIBLE HEIGHT FOR MAINTENANCE, COMPLETE WITH A GROUNDING LUG.
   - 10.7. THE LUMINAIRES WILL BE LED ROADWAY FIXTURES WITH TYPE II, III, OR IV DISTRIBUTION, AS SPECIFIED IN THE DRAWINGS. THEY WILL HAVE A POWER RATING BETWEEN 100W AND 300W, AS SPECIFIED, DEPENDING ON THE ROADWAY CLASSIFICATION AND LIGHTING DESIGN. A CORRELATED COLOUR TEMPERATURE (CCT) OF 4000 K ± 300 K. THE LUMINAIRES WILL HAVE A MINIMUM LUMINOUS EFFICACY OF 130 LM/W, WITH 0–10V DIMMABLE DRIVERS, AND BE RATED FOR IP66 INGRESS PROTECTION AND IK08 IMPACT RESISTANCE. THE ELECTRICAL REQUIREMENTS WILL INCLUDE OPERATION AT 120–277V AC OR 347–600V AC WITH A POWER FACTOR GREATER THAN 0.90. EACH LUMINAIRE WILL FEATURE 10KV SURGE PROTECTION, A FAST–BLOW FUSE ON BOTH CONDUCTORS AND A NEMA TWIST–LOCK 7–PIN PHOTO CONTROL RECEPTACLE COMPLIANT WITH ANSI C136.41.
   - 10.8. THE POLE FOUNDATIONS WILL BE CONSTRUCTED OF CONCRETE WITH A MINIMUM STRENGTH OF 35 MPA AT 28 DAYS. THE REINFORCEMENT WILL COMPLY WITH THE DRAWINGS, INCLUDING APPROPRIATE REBAR SIZE AND SPACING. ANCHOR BOLTS WILL BE GALVANIZED AND CONFORM TO ASTM F1554 GRADE 55 OR EQUIVALENT, WITH EMBEDDED LENGTHS AS SPECIFIED. THE DEPTH AND DIAMETER OF THE FOUNDATIONS WILL ADHERE TO MTO STANDARDS, ACCOUNTING FOR POLE HEIGHT AND SOIL CONDITIONS.
   - 10.9. CONDUITS WILL BE RIGID PVC (RPVC) OR RIGID GALVANIZED STEEL (RGS), AS SPECIFIED IN THE DRAWINGS. THE MINIMUM CONDUIT SIZE WILL BE 50 MM FOR POLE BASES AND 75 MM FOR ROAD CROSSINGS. ALL WIRING WILL USE COPPER CONDUCTORS, EITHER RW90 OR TECK90, SIZED ACCORDING TO THE ELECTRICAL LOAD REQUIREMENTS, WITH A MINIMUM WIRE SIZE OF #8 AWG FOR LIGHTING CIRCUITS. GROUNDING WILL BE ACHIEVED USING 19MM DIAMETER, 3M–LONG COPPER–BONDED GROUND RODS AND #6 AWG BARE COPPER GROUND WIRES AT EACH NEW LIGHTING POST.
   - 10.10. LIGHT POSTS WILL BE INSTALLED AT THE LOCATIONS SPECIFIED IN THE DRAWINGS. THE CONTRACTOR WILL ENSURE THAT THE POSTS ARE PLUMB AND LEVEL, USING SHIMS, AS NECESSARY. ANCHOR BOLTS WILL BE TORQUED TO THE MANUFACTURER'S SPECIFICATIONS, AND WEATHERPROOF HANDHOLE COVERS WILL BE INSTALLED SECURELY IN PLACE.
   - 10.11. LUMINAIRES WILL BE MOUNTED SECURELY TO THE POLEARMS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE CONTRACTOR WILL VERIFY THE ALIGNMENT AND AIMING ANGLES IN ACCORDANCE WITH THE PHOTOMETRIC PLANS. PHOTOCELLS, IF APPLICABLE, WILL BE INSTALLED AND TESTED FOR PROPER FUNCTIONALITY. ALL WIRING CONNECTIONS WILL BE TESTED FOR CONTINUITY AND CORRECT POLARITY.
   - 10.12. ELECTRICAL CONNECTIONS WILL BE APPROPRIATELY TERMINATED USING SUITABLE LUGS AND CONNECTORS, WITH ALL CONDUCTORS LABELLED AS SPECIFIED IN THE DRAWINGS. GROUNDING AND BONDING CONTINUITY WILL BE VERIFIED. THE CONTRACTOR WILL PERFORM MEGGER TESTING ON ALL CIRCUITS BEFORE ENERGIZING THEM.
   - 10.13. TESTING AND COMMISSIONING WILL INCLUDE VERIFYING THE PROPER OPERATION OF ALL LUMINAIRES AND CONTROLS. THE CONTRACTOR WILL MEASURE AND RECORD ILLUMINATION LEVELS TO CONFIRM COMPLIANCE WITH THE DESIGN CRITERIA. FUNCTIONAL TESTING OF PHOTOCELLS AND DIMMING CONTROLS WILL BE CONDUCTED, AND ALL TEST REPORTS AND AS–BUILT DRAWINGS WILL BE SUBMITTED FOR APPROVAL.
   - 10.14. UPON COMPLETION, THE CONTRACTOR WILL RESTORE ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITION. THIS INCLUDES REMOVING DEBRIS, EXCESS MATERIALS, AND TEMPORARY SIGNAGE. ROADWAYS AND SIDEWALKS WILL BE CLEANED AND MADE SAFE FOR PUBLIC USE.

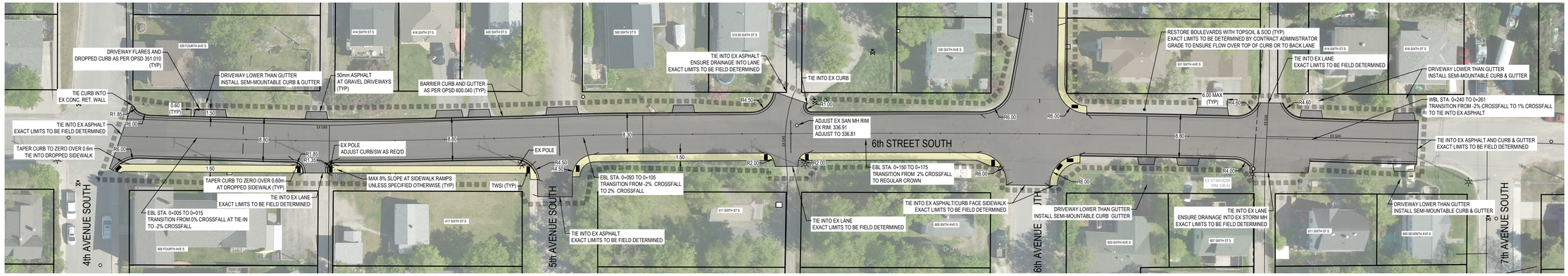
TRAFFIC SIGNAL AND PEDESTRIAN CROSSING IN–GRADE CONDUIT SPECIFICATION – FUTURE

1. GENERAL REQUIREMENTS
   - 1.1. ALL IN–GRADE CONDUIT INSTALLATIONS FOR TRAFFIC SIGNALS AND PEDESTRIAN CROSSINGS IN THE PROVINCE OF ONTARIO SHALL CONFORM TO THE MINISTRY OF TRANSPORTATION OF ONTARIO (MTO) STANDARDS, THE ONTARIO PROVINCIAL STANDARDS SPECIFICATIONS (OPSS), AND ALL APPLICABLE CODES AND REGULATIONS ENFORCED BY THE AUTHORITIES HAVING JURISDICTION.
   - 1.2. THE INSTALLATION SHALL COMPLY WITH THE LATEST EDITIONS OF THE ONTARIO ELECTRICAL SAFETY CODE (OESC) AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS PUBLISHED BY THE MTO. ALL WORK SHALL BE PERFORMED NEATLY AND PROFESSIONALLY, ENSURING THE CONDUITS ARE PROPERLY ALIGNED, PROTECTED, AND ACCESSIBLE FOR FUTURE MAINTENANCE AND EXPANSION.

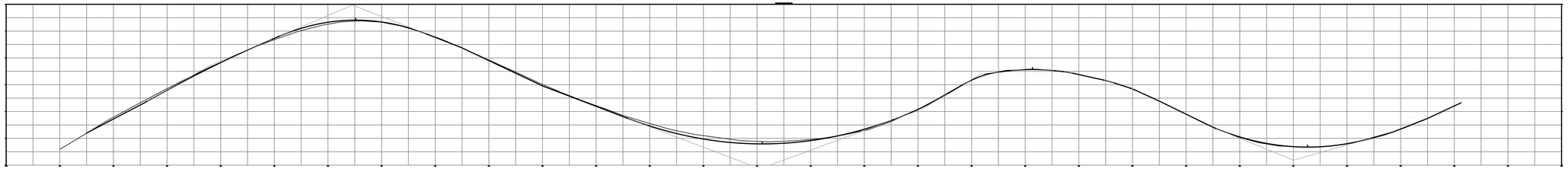
2. CONDUIT MATERIALS
   - 2.1. CONDUITS USED FOR TRAFFIC SIGNALS AND PEDESTRIAN CROSSINGS SHALL BE CONSTRUCTED OF DURABLE, CORROSION–RESISTANT MATERIALS SUITABLE FOR DIRECT BURIAL APPLICATIONS. THE PRIMARY CONDUIT TYPE SHALL BE RIGID POLYVINYL CHLORIDE (RPVC), WHICH CONFORMS TO CSA STANDARD C22.2 NO. 211.1. RPVC IS THE PREFERRED MATERIAL DUE TO ITS RESISTANCE TO CORROSION, EASE OF HANDLING, AND LONG–TERM DURABILITY IN UNDERGROUND ENVIRONMENTS.
   - 2.2. IN AREAS PRONE TO PHYSICAL DAMAGE OR WHERE ADDITIONAL MECHANICAL PROTECTION IS REQUIRED, RIGID GALVANIZED STEEL CONDUIT (RGSC) MAY BE USED. RGSC SHALL CONFORM TO CSA C22.2 NO. 45 AND IS TYPICALLY SPECIFIED FOR SECTIONS CROSSING ROADWAYS OR OTHER HIGH–IMPACT ZONES. ALL CONDUIT JOINTS AND FITTINGS SHALL BE WATERTIGHT. RPVC JOINTS SHALL BE SECURED WITH MANUFACTURER–APPROVED SOLVENT CEMENT, WHILE RGSC JOINTS SHALL USE THREADED COUPLINGS TO ENSURE A SECURE CONNECTION.

3. CONDUIT SIZES AND USAGE
   - 3.1. THE CONDUIT SIZES USED FOR TRAFFIC SIGNALS AND PEDESTRIAN CROSSINGS SHALL BE SELECTED BASED ON THE APPLICATION AND ANTICIPATED CABLE VOLUME. FOR MAIN SIGNAL CABLE RUNS AND ROAD CROSSINGS, 100 MM (4") RPVC SHALL BE USED. THIS LARGER DIAMETER PROVIDES SUFFICIENT CAPACITY FOR MULTIPLE CONDUCTORS AND ALLOWS FOR FUTURE EXPANSION, MAKING IT THE STANDARD CHOICE FOR MAJOR INTERSECTIONS AND PRIMARY TRUNK LINES.
   - 3.2. FOR MEDIUM–CAPACITY CABLE RUNS, 75 MM (3 IN.) RPVC IS SUITABLE. THIS SIZE IS COMMONLY USED FOR SECONDARY CROSSINGS OR INSTALLATIONS WITH FEWER CABLES. IN LESS COMPLEX SIGNAL INSTALLATIONS, SUCH AS PEDESTRIAN CROSSINGS OR HANDHOLES, 50 MM (2") RPVC IS ACCEPTABLE. THIS SMALLER CONDUIT SIZE IS SUFFICIENT FOR AUXILIARY SIGNAL HEADS AND STANDALONE PEDESTRIAN CROSSING SIGNALS.
   - 3.3. WHEN CONDUITS TRANSITION BETWEEN UNDERGROUND AND ABOVE–GROUND SECTIONS OR CONNECT TO POLE BASES, APPROPRIATE FITTINGS AND CONNECTORS SHALL BE USED TO MAINTAIN WEATHERPROOFING AND MECHANICAL INTEGRITY.

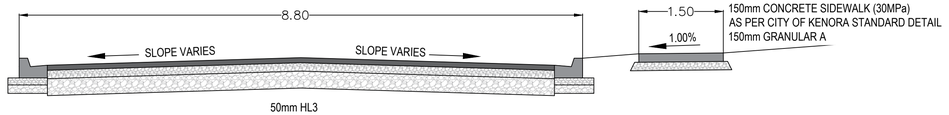
4. DEPTH AND INSTALLATION REQUIREMENTS
   - 4.1. ALL CONDUITS SHALL BE INSTALLED AT SPECIFIED MINIMUM DEPTHS TO ENSURE PROTECTION FROM SURFACE LOADS AND ENVIRONMENTAL FACTORS. IN STANDARD INSTALLATIONS, INCLUDING SIDEWALKS, BOULEVARDS, AND NON–VEHICULAR AREAS, CONDUITS SHALL BE BURIED AT A MINIMUM DEPTH OF 0.75 M (750 MM) BELOW GRADE. IN AREAS SUBJECT TO VEHICULAR TRAFFIC, SUCH AS ROADWAYS AND DRIVEWAYS, THE MINIMUM BURIAL DEPTH SHALL BE 1.0 M (1000 MM).
   - 4.2. WHERE CONDUITS CROSS ROADWAYS OR DRIVEWAYS, THEY SHALL BE ENCASED IN CONCRETE TO PROVIDE ADDITIONAL PROTECTION AGAINST HEAVY LOADS. THE CONCRETE ENCASEMENT SHALL CONSIST OF 75 MM (3 INCHES) OF CONCRETE ON ALL SIDES OF THE CONDUIT UNLESS OTHERWISE SPECIFIED BY THE MTO OR THE AUTHORITY HAVING JURISDICTION.
   - 4.3. TRENCHES FOR CONDUIT INSTALLATION SHALL BE EXCAVATED TO THE REQUIRED DEPTH AND WIDTH, ALLOWING FOR THE PROPER PLACEMENT AND ALIGNMENT OF CONDUITS. THE BACKFILL MATERIAL SHALL BE FREE OF ROCKS, DEBRIS, OR OTHER SHARP OBJECTS THAT COULD DAMAGE THE CONDUIT. BACKFILL SHALL BE PLACED IN LAYERS NOT EXCEEDING 150 MM (6 INCHES) AND COMP



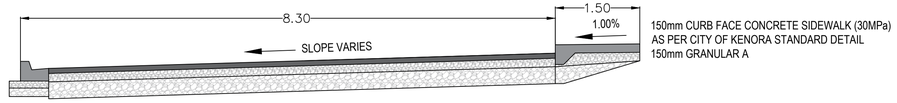
1 C105 6TH STREET SOUTH SURFACE 0+000 TO 0+261
1:400



2 C105 6TH STREET SOUTH PROFILE 0+000 TO 0+261
1:400



3 C105 6TH STREET SOUTH STA. 0+030 TYPICAL SECTION
NTS



4 C105 6TH STREET SOUTH STA. 0+130 TYPICAL SECTION
NTS

LEGEND

GENERAL
- PROPERTY LINE
- CONSTRUCTION BOUNDARY
- EO — EXISTING OVERHEAD POWER
- EU — PROPOSED UNDERGROUND POWER
- O.P.P. — EXISTING POWER POLE
- EXISTING POWER POLE ANCHOR
- STREET LIGHT

STORM
- PROPOSED CATCH BASIN
- EXISTING CATCH BASIN
- PROPOSED STORM MAIN
- EXISTING STORM MAIN
- EXISTING STORM MAINTENANCE HOLE

WATER
- PROPOSED WATER CURB STOP
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- PROPOSED HYDRANT
- EXISTING HYDRANT
- EXISTING WATERMAIN
- PROPOSED WATERMAIN

SANITARY
- PROPOSED SANITARY MAINTENANCE HOLE
- PROPOSED SANITARY MAIN
- EXISTING SANITARY MAINTENANCE HOLE
- EXISTING SANITARY MAIN
- EXISTING SANITARY FORCEMAIN

ROADS
- PROPOSED SIDEWALK
- EXISTING SIDEWALK
- PROPOSED TWSI PEDESTRIAN RAMPS
- PROPOSED U/G CONDUIT
- BARRIER CURB AND GUTTER

NOTE:

1. REMOVED & REPLACED EXISTING MANHOLE FRAME AND COVERS TO BE SALVAGED AND TAKEN TO CITY OPERATIONS YARD.
2. SERVICES ARE TO BE FIELD VERIFIED BY THE CONTRACTOR.
3. UTILITIES SHOWN ARE APPROXIMATE ONLY, THE CITY OF KENORA AND ITS REPRESENTATIVES WILL NOT BE HELD ACCOUNTABLE FOR MISREPRESENTATION OF WATER AND SEWER SERVICES ON THIS DRAWING. CONTRACTOR IS RESPONSIBLE FOR UTILITY LOCATES PRIOR TO CONSTRUCTION.
4. CONTRACTOR TO COORDINATE WORK WITH UTILITY PROVIDERS.
5. LOT LINES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE VERIFIED BY CONTRACTOR.
6. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
7. STORM CATCH BASIN LEADS ARE TO BE INSTALLED AT A MINIMUM 1% GRADE.
8. EXISTING RESIDENTIAL PATHWAYS, STAIRS, RAMPS TO BE TIED IN TO BACK OF WALK.
9. CONTRACTORS TO BE RESPONSIBLE FOR REINSTATING ANY REGULATORY, WARNING OR STREET SIGNS THAT ARE REMOVED DURING CONSTRUCTION. THE REINSTATMENT OF SIGNAGE SHALL BE DEEMED INCIDENTAL TO THE CONTRACT WORK.
10. EXISTING RESIDENTIAL PATHWAYS, STAIRS, RAMPS, DRIVEWAYS TO BE REINSTATED AND CONSIDERED INCIDENTAL TO THE WORKS.
11. DRIVEWAYS AND CURB DROPS SHOWN ON DRAWINGS ARE APPROXIMATE, FINAL LOCATIONS TO BE FIELD DETERMINED WITH THE CONTRACT ADMINISTRATOR TO ACCOUNT FOR EXISTING CONDITIONS AND FEATURES.
12. ALL CATCH BASINS AND CATCH BASIN MAINTENANCE HOLES ARE TO HAVE SUMPS OF 0.3 m BELOW THE LOWEST PIPE INVERT CONNECTED TO EACH INDIVIDUAL STRUCTURE.
13. CONTRACTOR SHALL VERIFY ALL PIPE INVERTS IN THE FIELD.

DISCLAIMER:
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THIS DRAWING IS NOT TO BE SCALED.

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ISSUED FOR - REVISION:

IS	RE	DATE	DESCRIPTION
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APPROVAL:

PROJECT:
2026 MUNICIPAL PAVING
DATE: FEBRUARY 2026

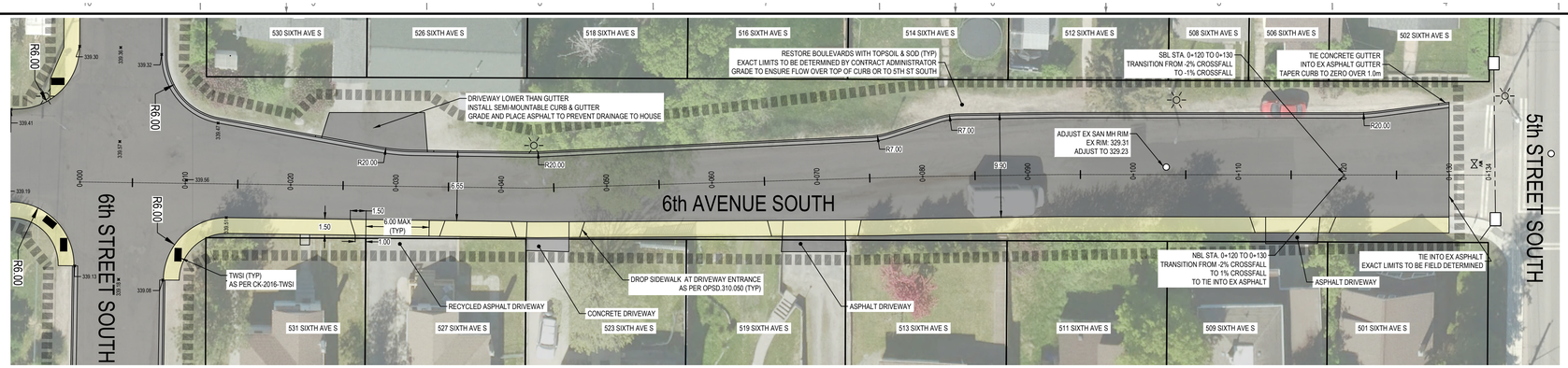
Lake of the Woods KENORA
60 FOURTEENTH STREET NORTH
ONTARIO, CANADA
P9N 4M9
PHONE: 807-467-2035 FAX: 807-467-2246
WWW.KENORA.CA

ORIGINAL SCALE: 1:400
IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
25mm

TITLE:
6th STREET SOUTH
PLAN / PROFILE
0+000 TO 0+261

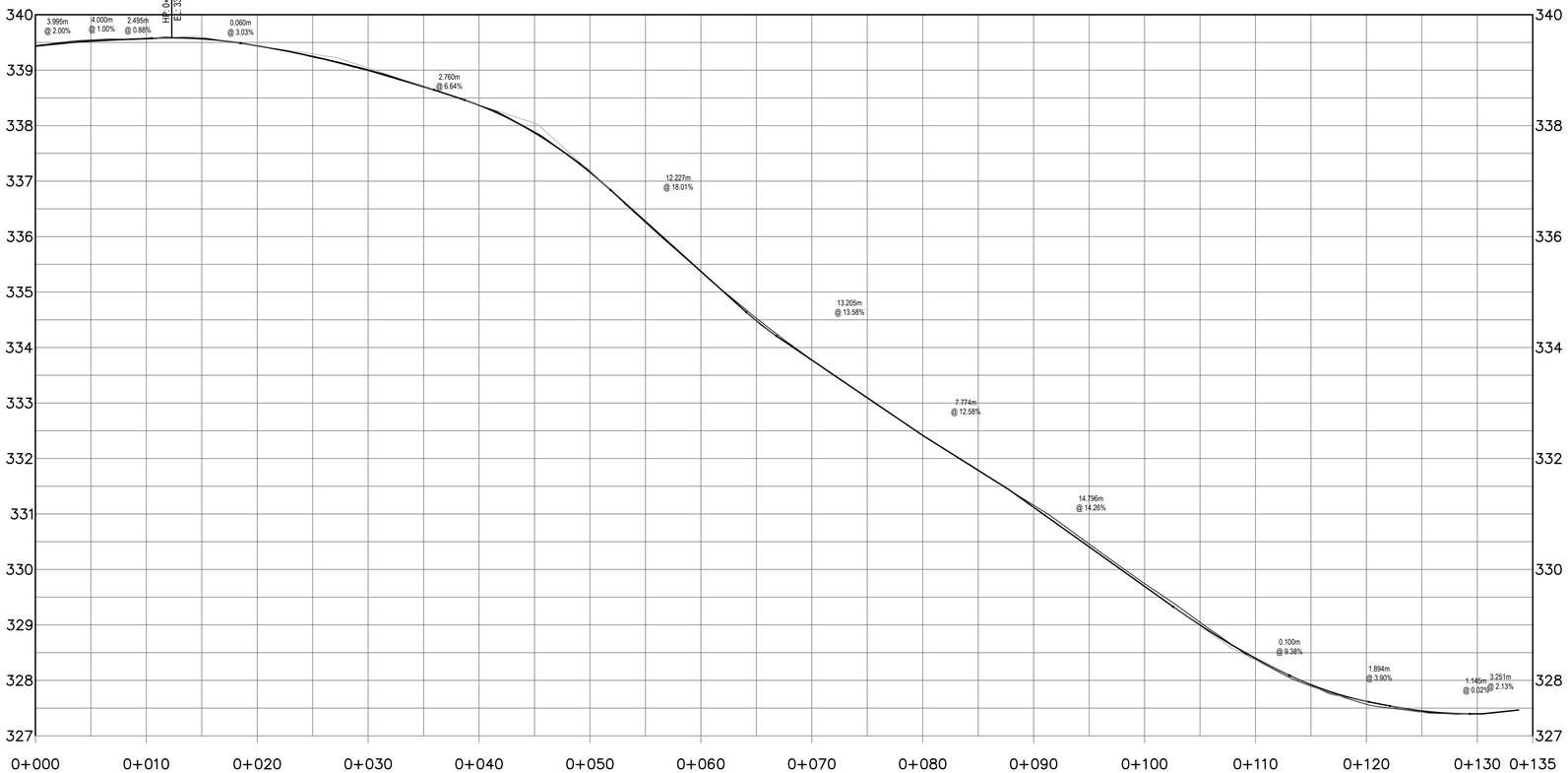
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SHEET # 05 OF 09

DESIGNED BY: SS
DRAWN BY: SS
CHECKED BY: DM
DISCIPLINE: CIVIL
ISSUE: IFT
REV #: 0
DATE OF: 2026/02/27



1 / C106 6TH AVENUE SOUTH SURFACE 0+000 TO 0+135
1:250

SIXTH AVENUE SOUTH DESIGN CENTRELINE PROFILE



2 / C106 6TH AVENUE SOUTH PROFILE 0+000 TO 0+135
1:250

LEGEND

GENERAL
- PROPERTY LINE
- CONSTRUCTION BOUNDARY
- EO — EXISTING OVERHEAD POWER
- EU — PROPOSED UNDERGROUND POWER
- EXISTING POWER POLE
- EXISTING POWER POLE ANCHOR
- O.P.P. — STREET LIGHT

STORM
- PROPOSED CATCH BASIN
- EXISTING CATCH BASIN
- PROPOSED STORM MAIN
- EXISTING STORM MAIN
- EXISTING STORM MAINTENANCE HOLE

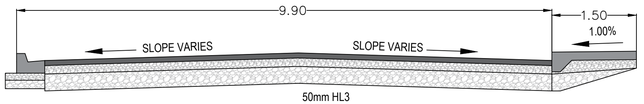
WATER
- PROPOSED WATER CURB STOP
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- PROPOSED HYDRANT
- EXISTING HYDRANT
- EXISTING WATERMAIN
- PROPOSED WATERMAIN

SANITARY
- PROPOSED SANITARY MAINTENANCE HOLE
- PROPOSED SANITARY MAIN
- EXISTING SANITARY MAINTENANCE HOLE
- EXISTING SANITARY MAIN
- EXISTING SANITARY FORCEMAIN

ROADS
- PROPOSED SIDEWALK
- EXISTING SIDEWALK
- PROPOSED TWSI PEDESTRIAN RAMPS
- PROPOSED U/G CONDUIT
- BARRIER CURB AND GUTTER

NOTE:
1. REMOVED & REPLACED EXISTING MANHOLE FRAME AND COVERS TO BE SALVAGED AND TAKEN TO CITY OPERATIONS YARD.
2. SERVICES ARE TO BE FIELD VERIFIED BY THE CONTRACTOR.
3. UTILITIES SHOWN ARE APPROXIMATE ONLY. THE CITY OF KENORA AND ITS REPRESENTATIVES WILL NOT BE HELD ACCOUNTABLE FOR MISREPRESENTATION OF WATER AND SEWER SERVICES ON THIS DRAWING. CONTRACTOR IS RESPONSIBLE FOR UTILITY LOCATES PRIOR TO CONSTRUCTION.
4. CONTRACTOR TO COORDINATE WORK WITH UTILITY PROVIDERS.
5. LOT LINES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE VERIFIED BY CONTRACTOR.
6. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
7. STORM CATCH BASIN LEADS ARE TO BE INSTALLED AT A MINIMUM 1% GRADE.
8. EXISTING RESIDENTIAL PATHWAYS, STAIRS, RAMPS TO BE TIED IN TO BACK OF WALK.
9. CONTRACTORS TO BE RESPONSIBLE FOR REINSTATING ANY REGULATORY, WARNING OR STREET SIGNS THAT ARE REMOVED DURING CONSTRUCTION. THE REINSTATMENT OF SIGNAGE SHALL BE DEEMED INCIDENTAL TO THE CONTRACT WORK.
10. EXISTING RESIDENTIAL PATHWAYS, STAIRS, RAMPS, DRIVEWAYS TO BE REINSTATED AND CONSIDERED INCIDENTAL TO THE WORKS.
11. DRIVEWAYS AND CURB DROPS SHOWN ON DRAWINGS ARE APPROXIMATE, FINAL LOCATIONS TO BE FIELD DETERMINED WITH THE CONTRACT ADMINISTRATOR TO ACCOUNT FOR EXISTING CONDITIONS AND FEATURES.
12. ALL CATCH BASINS AND CATCH BASIN MAINTENANCE HOLES ARE TO HAVE SUMPS OF 0.3 m BELOW THE LOWEST PIPE INVERT CONNECTED TO EACH INDIVIDUAL STRUCTURE.
13. CONTRACTOR SHALL VERIFY ALL PIPE INVERTS IN THE FIELD.

150mm CURB FACE CONCRETE SIDEWALK (30MPa)
AS PER CITY OF KENORA STANDARD DETAIL
150mm GRANULAR A



50mm HL3
40mm HL8
150mm GRANULAR A
300mm GRANULAR B

3 / C106 6TH AVENUE SOUTH STA. 0+100 TYPICAL SECTION
NTS

DISCLAIMER:
THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR REVISED WITHOUT WRITTEN PERMISSION BY THE CITY OF KENORA. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK.
THIS DRAWING IS NOT TO BE SCALED.

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IS	RE	DATE	DESCRIPTION
IFT	0	FEB. 27, 2026	ISSUED FOR TENDER

APPROVAL:

PROJECT:
2026 MUNICIPAL PAVING

DATE:
FEBRUARY 2026

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25mm

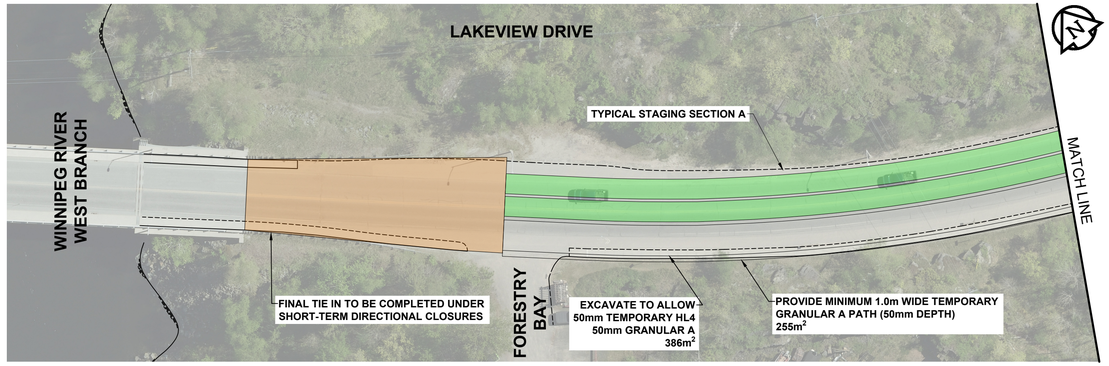
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PLAN / PROFILE
0+000 TO 0+130

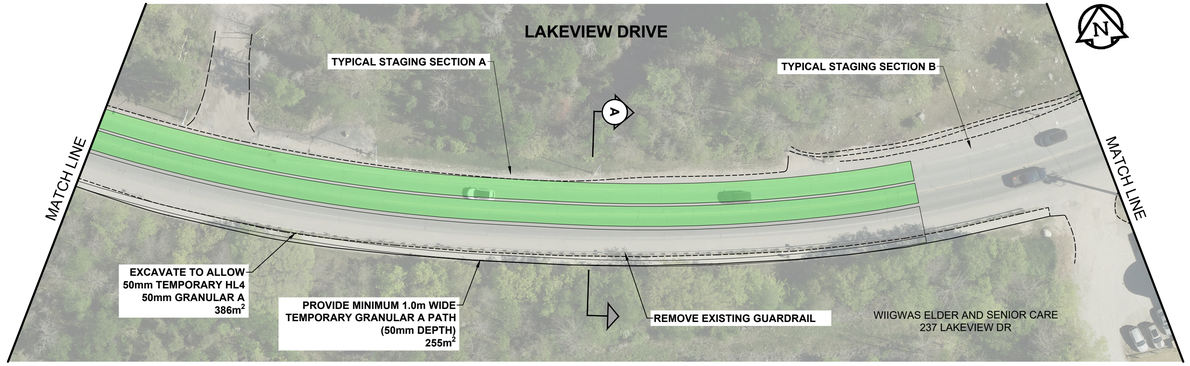
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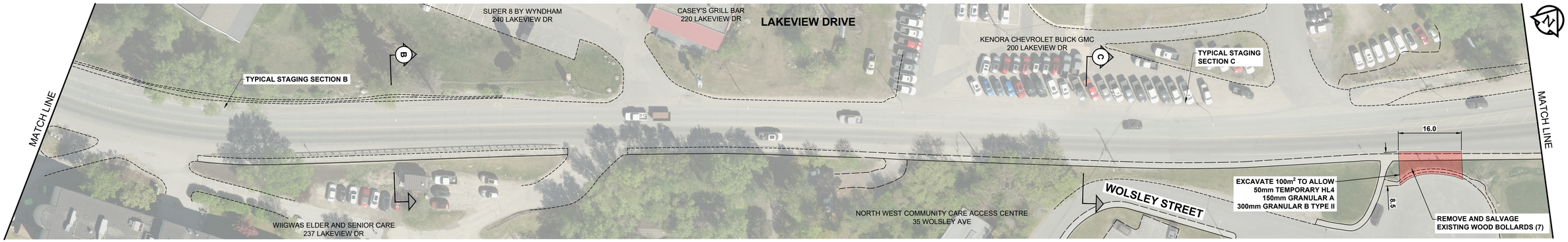
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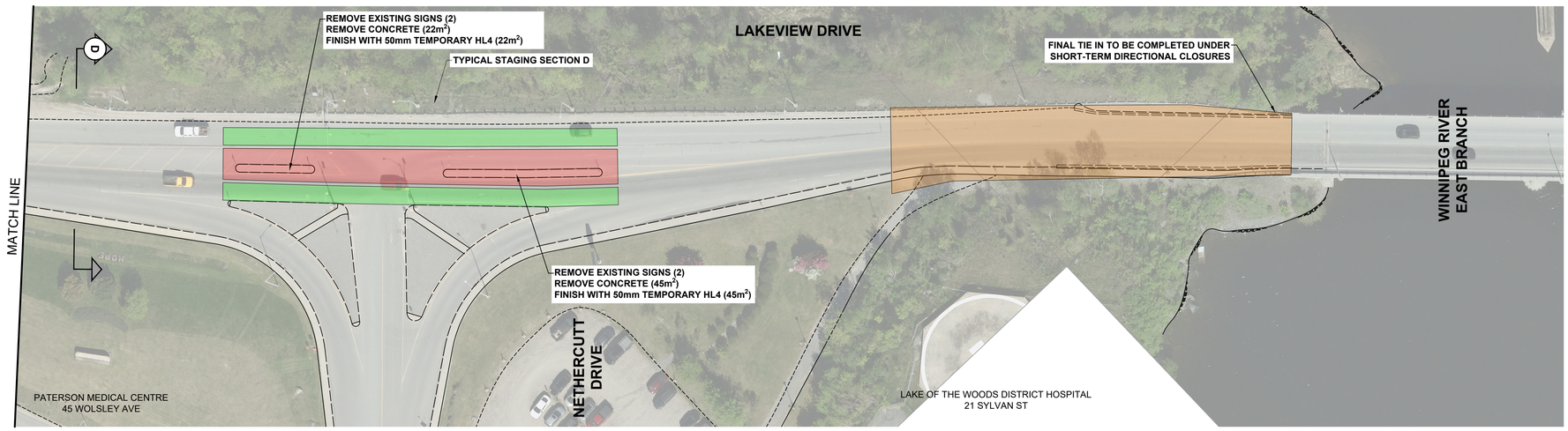
APPENDIX E
LAKEVIEW DRIVE PROPOSED TRAFFIC STAGING

CITY OF KENORA









SCALE: 1:500

0 5 10 20 30m

LEGEND

- WORK AREA
- TRAFFIC

GENERAL NOTES

1. CONTRACTOR TO MAINTAIN 2 LANES OF TRAFFIC ON STREET AT ALL TIMES.
2. ALL ASPHALT PAVING TO BE COMPLETED DURING OFF PEAK HOURS TO LIMIT TRAFFIC DISRUPTION. ANY MODIFICATIONS TO PAVING SCHEDULE TO BE APPROVED BY THE CONTRACT ADMINISTRATOR AND PUBLIC WORKS PROJECT MANAGER.
3. THE CONTRACTOR IS ADVISED THAT MATERIAL DELIVERIES AND CONCRETE POURS MUST OCCUR IN OFF PEAK HOURS IN BOTH DIRECTIONS.
4. PROPERLY EQUIPPED FLAG PERSONS WILL BE REQUIRED WHEN MOVING ANY CONSTRUCTION VEHICLE INTO OR OUT OF TRAFFIC.
5. CONTRACTOR TO HAVE FLAG PERSONS AT ALL SIDE STREET UPSTREAM INTERSECTIONS DURING ASPHALT PAVING.

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STAGE 1

FIGURE 1

THE CITY OF KENORA

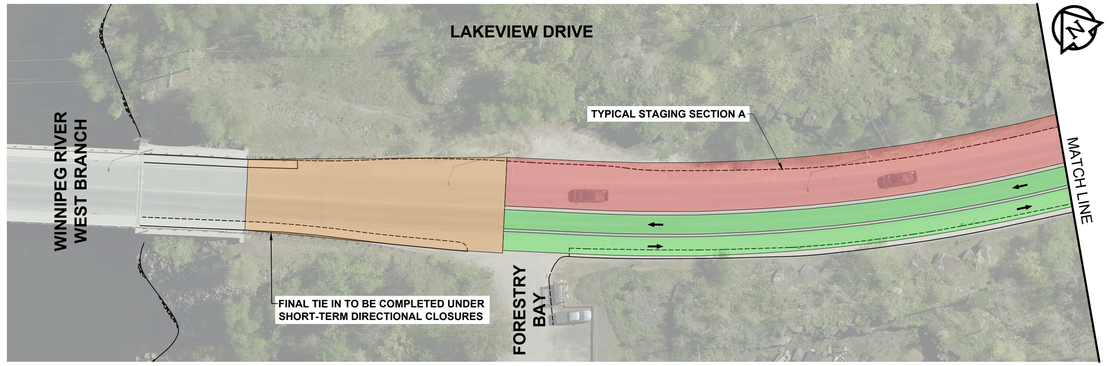
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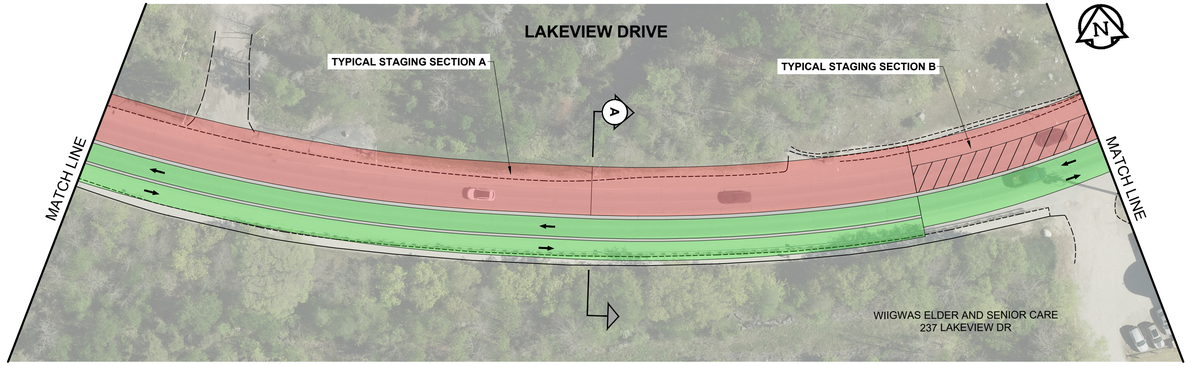
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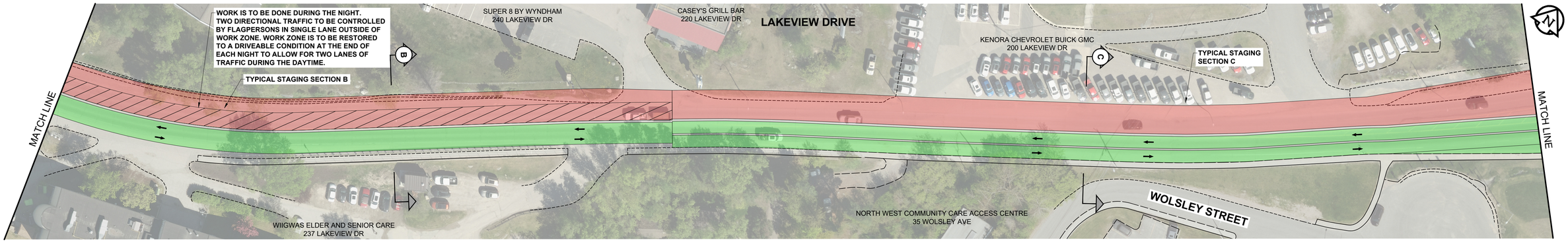
LAKEVIEW DRIVE

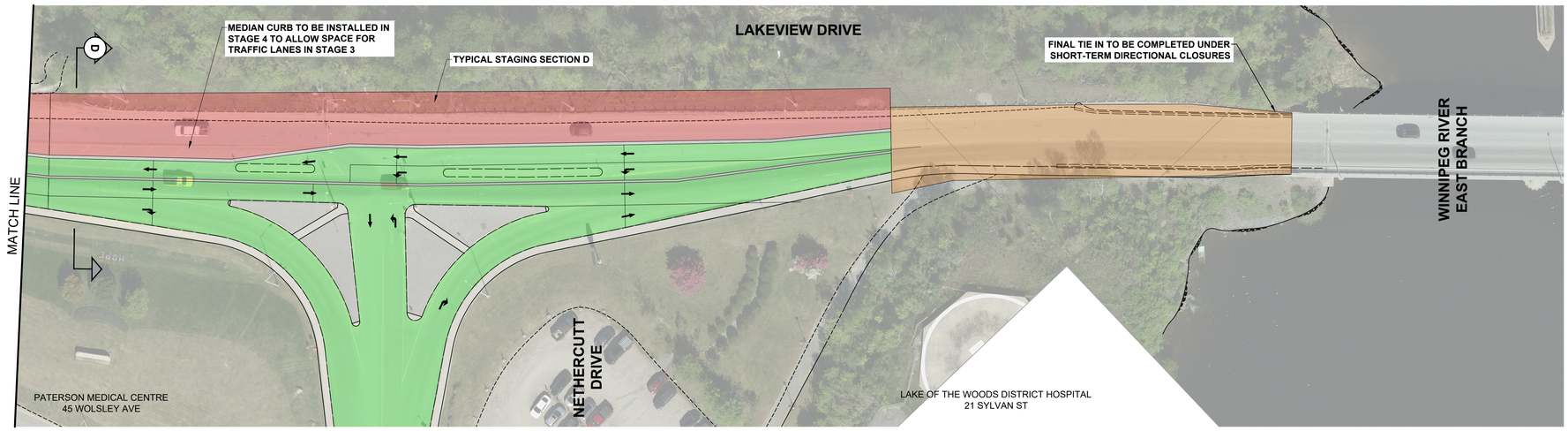
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SCALE: 1:500

0 5 10 20 30m

LEGEND

- WORK AREA
- TRAFFIC

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STAGE 2

FIGURE 2

THE CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

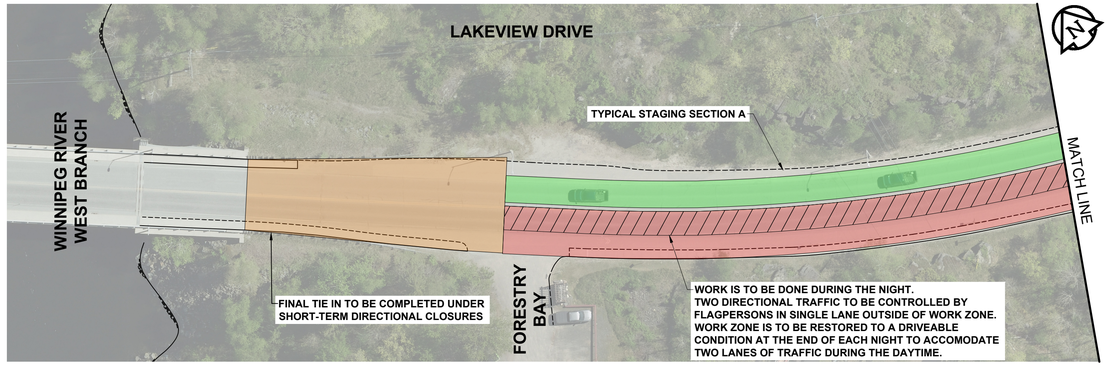
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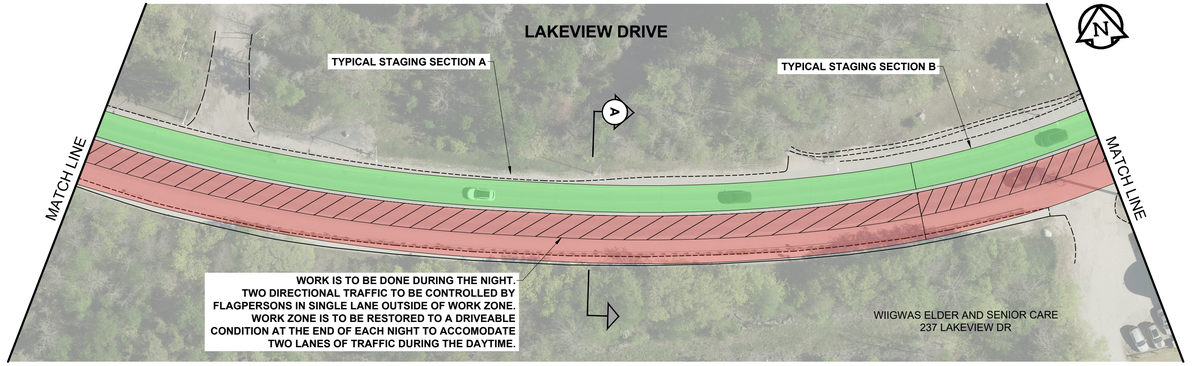
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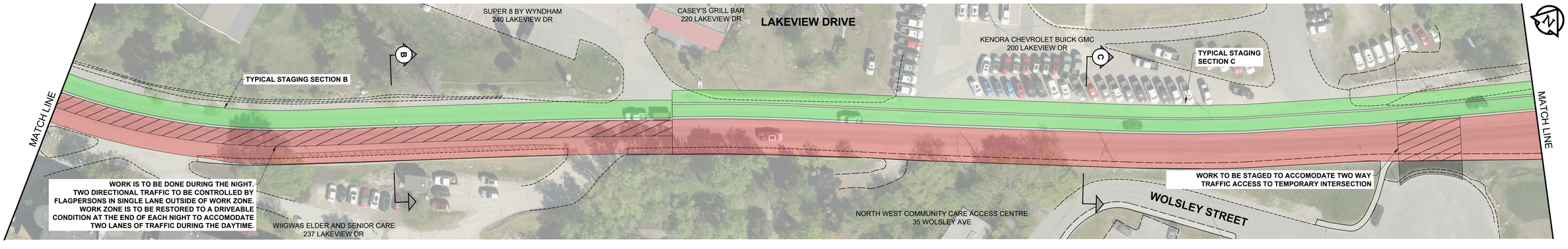
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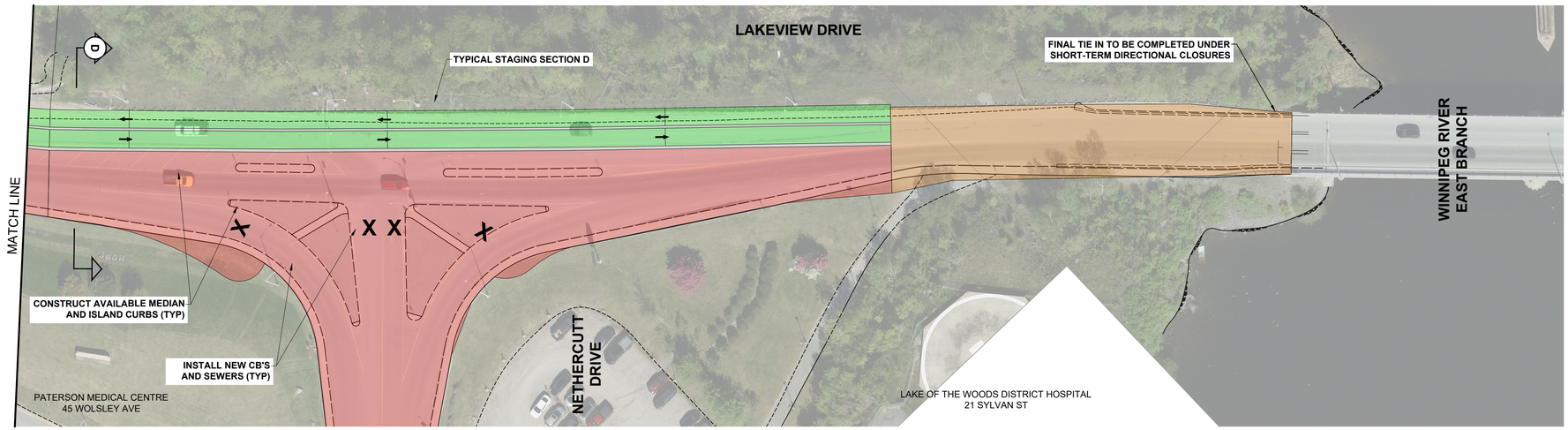
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LAKEVIEW DRIVE









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STAGE 3

FIGURE 3

THE CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

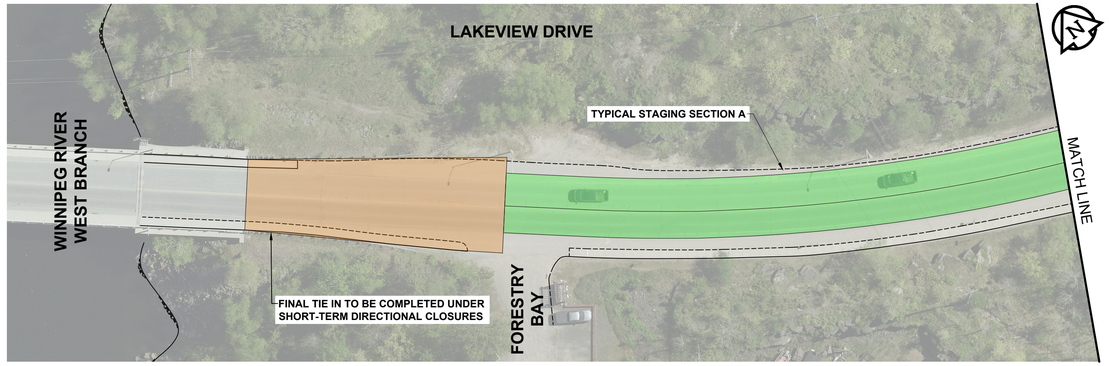
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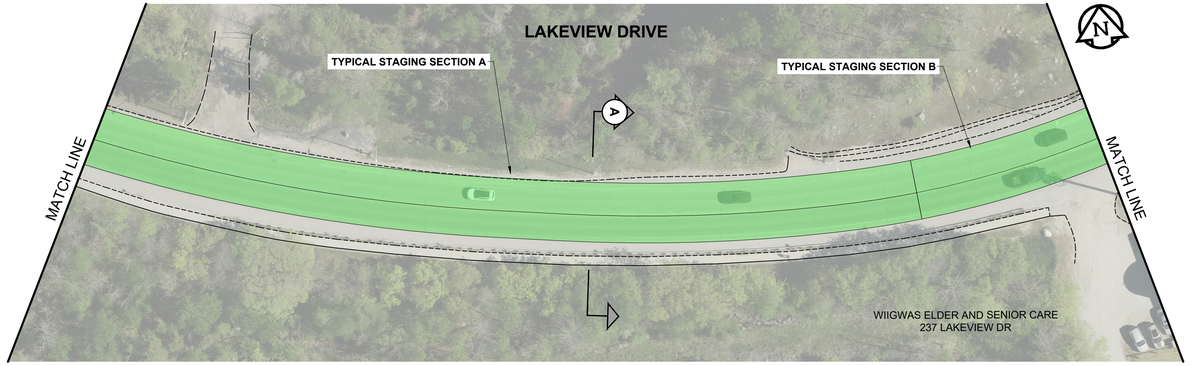
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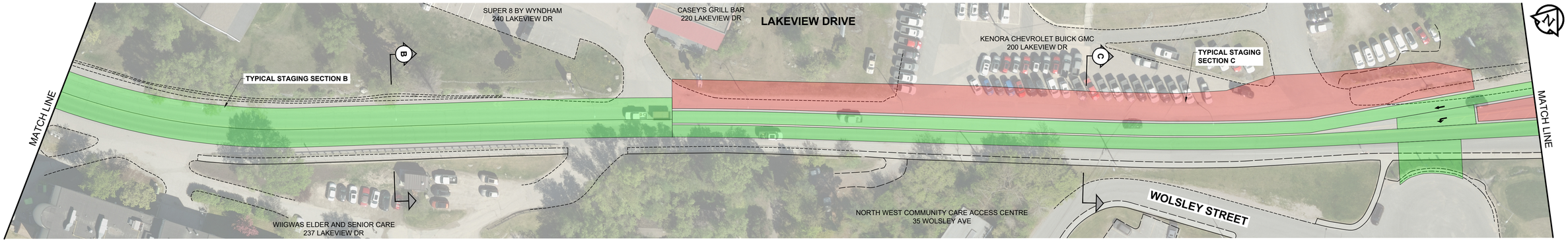
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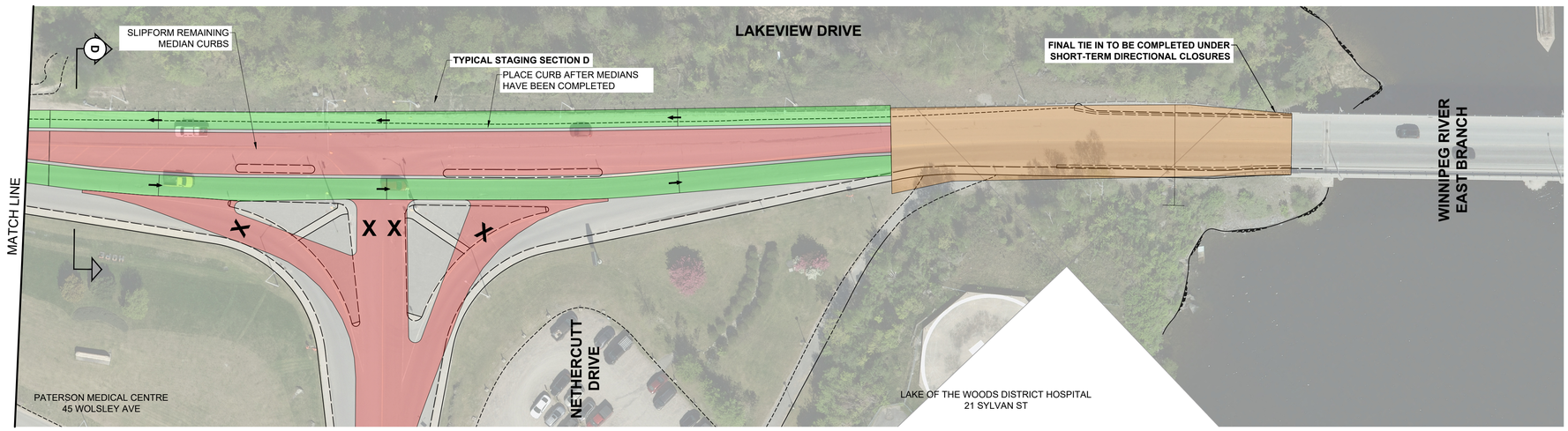
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ANSI D - 34" x 22"









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STAGE 4

FIGURE 4

THE CITY OF KENORA

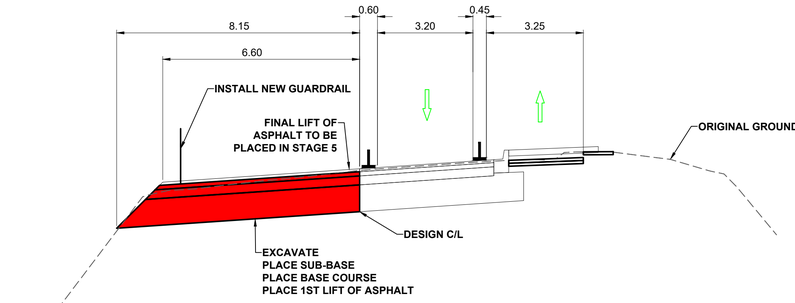
2026 MUNICIPAL PAVING PROGRAM

CONSTRUCTION STAGING

LAKEVIEW DRIVE

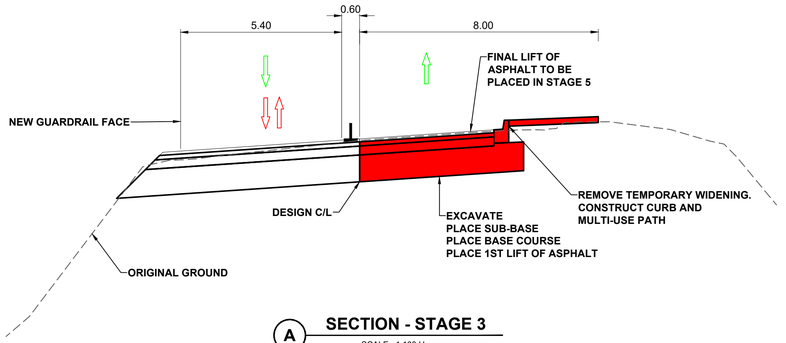
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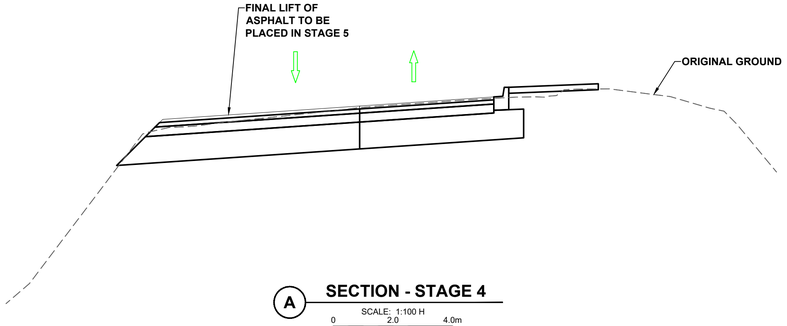
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SCALE: 1:100 H
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0 1.0 2.0m
SCALE 1:50 V



A **SECTION - STAGE 3**

SCALE: 1:100 H
0 2.0 4.0m
0 1.0 2.0m
SCALE 1:50 V



A **SECTION - STAGE 4**

SCALE: 1:100 H
0 2.0 4.0m
0 1.0 2.0m
SCALE 1:50 V

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SECTIONS

FIGURE 5

THE CITY OF KENORA

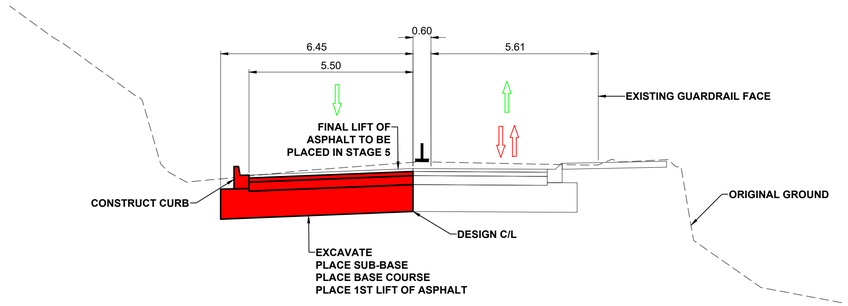
2026 MUNICIPAL PAVING PROGRAM

CONSTRUCTION STAGING

LAKEVIEW DRIVE

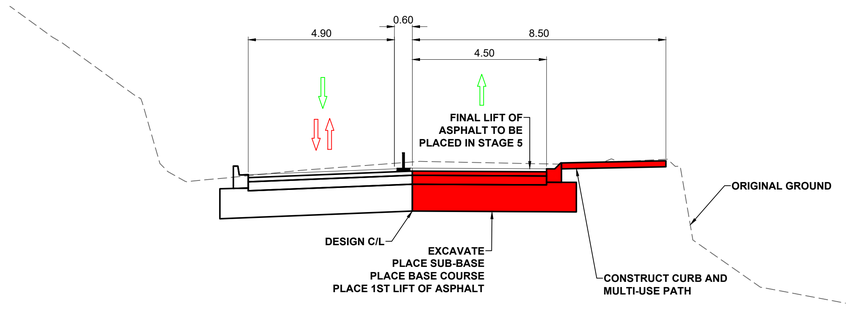
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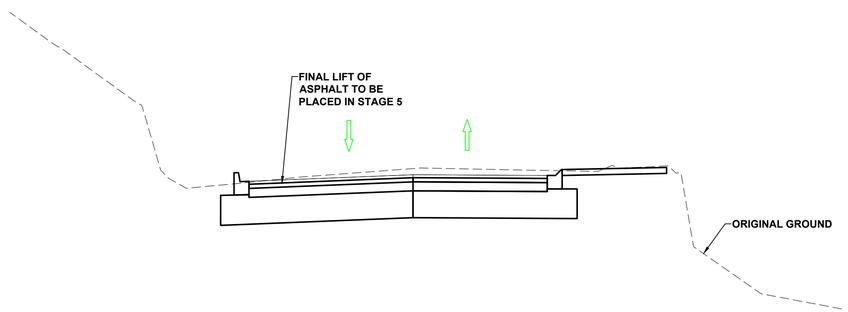
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0 1.0 2.0m
SCALE 1:50 V



B **SECTION - STAGE 3**

SCALE: 1:100 H
0 2.0 4.0m
0 1.0 2.0m
SCALE 1:50 V



B **SECTION - STAGE 4**

SCALE: 1:100 H
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SCALE 1:50 V

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SECTIONS

FIGURE 7

THE CITY OF KENORA

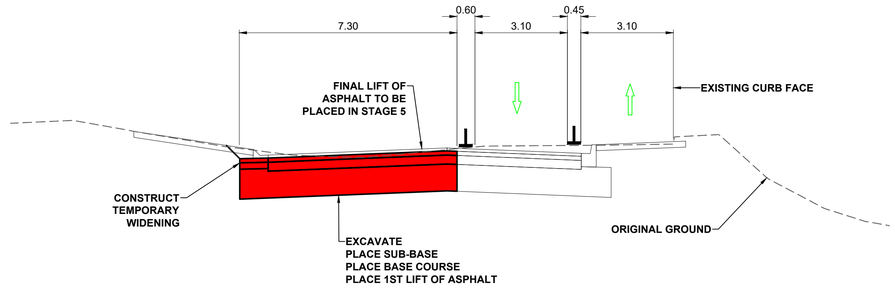
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CONSTRUCTION STAGING

LAKEVIEW DRIVE

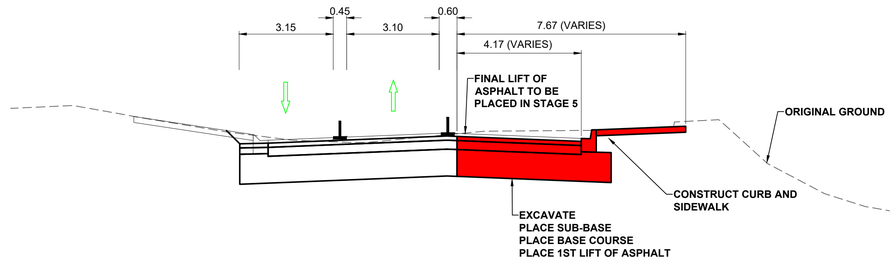
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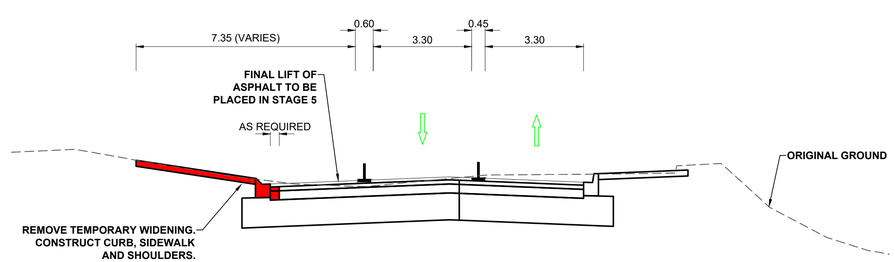
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0 1.0 2.0m
SCALE 1:50 V



C **SECTION - STAGE 3**

SCALE: 1:100 H
0 2.0 4.0m
0 1.0 2.0m
SCALE 1:50 V



C **SECTION - STAGE 4**

SCALE: 1:100 H
0 2.0 4.0m
0 1.0 2.0m
SCALE 1:50 V

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SECTIONS

FIGURE 7

THE CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

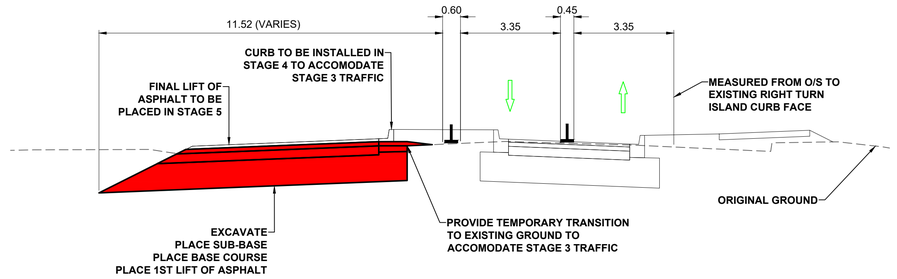
CONSTRUCTION STAGING

LAKEVIEW DRIVE

VERSION 1.0

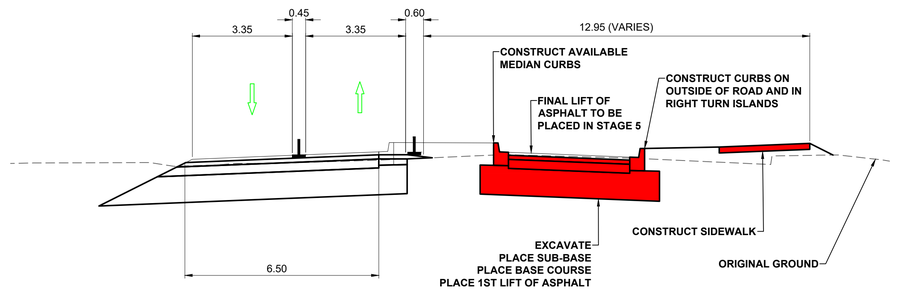
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ANSI D - 34" x 22"



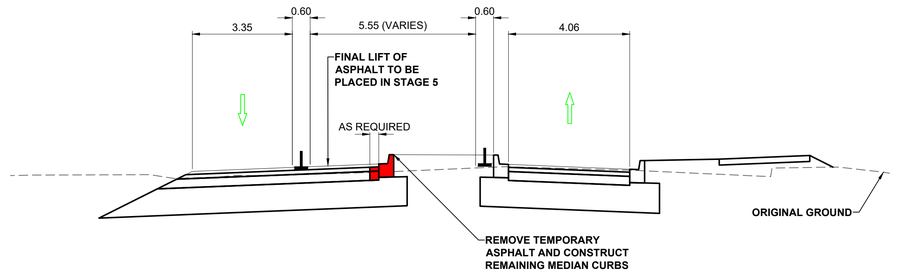
D SECTION - STAGE 2

SCALE: 1:100 H
0 2.0 4.0m
SCALE 1:50 V
0 1.0 2.0m



D SECTION - STAGE 3

SCALE: 1:100 H
0 2.0 4.0m
SCALE 1:50 V
0 1.0 2.0m



D SECTION - STAGE 4

SCALE: 1:100 H
0 2.0 4.0m
SCALE 1:50 V
0 1.0 2.0m

Stantec

ISSUED FOR REVIEW

SECTIONS

FIGURE 8

THE CITY OF KENORA

2026 MUNICIPAL PAVING PROGRAM

CONSTRUCTION STAGING

LAKEVIEW DRIVE

VERSION 1.0

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APPENDIX F
PROPOSED CONTRACT

CITY OF KENORA

The General Conditions of the CCDC 18 – 2023 Civil Works Contract, including the definitions therein, are hereby incorporated by reference into these Tender Documents as if they were written here in full. The General Conditions are further amended, supplemented, or deleted by the General Requirements, Supplementary Conditions, and Special Provisions.

APPENDIX G
GENERAL REQUIREMENTS

CITY OF KENORA

Stantec

City of Kenora

GENERAL REQUIREMENTS & SPECIFICATIONS

2026 Municipal Paving Program

STANTEC FILE NUMBER: 113708672

Section **Title** **Pages**

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01 35 29 Health and Safety Requirements 1
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APPENDIX Special Provisions (Civil Works) 33

END OF SECTION

1. Drawings

The following is the list of Drawings for this project:

Drawing Code	Sheet Number	Sheet Description
LAKEVIEW DRIVE FROM THE WINNIPEG RIVER WEST BRANCH BRIDGE TO THE WINNIPEG RIVER EAST BRANCH BRIDGE		
C-001	1 of 35	COVER SHEET LAKEVIEW DRIVE FROM THE WINNIPEG RIVER WEST BRANCH BRIDGE TO THE WINNIPEG RIVER EAST BRANCH BRIDGE
C-002	2 of 35	LAKEVIEW DRIVE - HORIZONTAL GEOMETRY - WEST LIMIT TO STA 0+420
C-003	3 of 35	LAKEVIEW DRIVE - HORIZONTAL GEOMETRY - STA 0+420 TO STA 0+790
C-004	4 of 35	LAKEVIEW DRIVE - HORIZONTAL GEOMETRY - STA 0+790 TO EAST LIMIT
C-005	5 of 35	LAKEVIEW DRIVE - PLAN & PROFILE - WEST LIMIT TO STA 0+180
C-006	6 of 35	LAKEVIEW DRIVE - PLAN & PROFILE - STA 0+180 TO STA 0+300
C-007	8 of 35	LAKEVIEW DRIVE - PLAN & PROFILE - STA 0+300 TO STA 0+420
C-008	6 of 35	LAKEVIEW DRIVE - PLAN & PROFILE - STA 0+420 TO STA 0+540
C-009	9 of 35	LAKEVIEW DRIVE - PLAN & PROFILE - STA 0+540 TO STA 0+660
C-010	10 of 35	LAKEVIEW DRIVE - PLAN & PROFILE - STA 0+660 TO STA 0+790
C-011	11 of 35	LAKEVIEW DRIVE - PLAN & PROFILE - STA 0+790 TO STA 0+920
C-012	12 of 35	LAKEVIEW DRIVE - PLAN & PROFILE - STA 0+920 TO EAST LIMIT
C-013	13 of 35	NETHERCUTT DRIVE - PLAN & PROFILE - WOLSLEY STREET TO LAKEVIEW DRIVE
C-014	14 of 35	LAKEVIEW DRIVE – PLAN – TEMPORARY PAVEMENT
C-015	15 of 35	LAKEVIEW DRIVE - PAINT MARKINGS AND SIGNAGE - WEST LIMIT TO STA 0+420
C-016	16 of 35	LAKEVIEW DRIVE - PAINT MARKINGS AND SIGNAGE - STA 0+420 TO STA 0+790

C-017	17 of 35	LAKEVIEW DRIVE - PAINT MARKINGS AND SIGNAGE - STA 0+790 TO EAST LIMIT
LAKEVIEW DRIVE - PARSONS STREET INTERSECTION		
C-018	18 of 35	LAKEVIEW DRIVE - HORIZONTAL GEOMETRY
C-019	19 of 35	LAKEVIEW DRIVE - PARSONS STREET INTERSECTION
RAILWAY STREET PHASE 4 FROM 1629 RAILWAY STREET TO 1736 RAILWAY STREET & CP RAIL SIDEWALK CROSSING		
C-020	20 of 35	RAILWAY STREET - HORIZONTAL GEOMETRY
C-021	21 of 35	RAILWAY STREET - PLAN & PROFILE - WEST LIMIT TO STA 1+140
C-022	22 of 35	RAILWAY STREET - PLAN & PROFILE - STA 1+140 TO STA 1+260
C-023	23 of 35	RAILWAY STREET - PLAN & PROFILE - STA1+260 TO EAST LIMIT
C-024	24 of 35	CP RAIL SIDEWALK CROSSING - PLAN & PROFILE - SIXTEENTH AVE N AND SIXTH ST N
FOURTH AVENUE SOUTH FROM FIFTH STREET SOUTH TO SOUTH 100m		
C-025	25 of 35	FOURTH AVENUE SOUTH - PLAN & PROFILE - FIFTH STREET SOUTH TO 100m SOUTH
BACK LANE BETWEEN FIRST STREET SOUTH AND SECOND STREET SOUTH FROM SEVENTH AVENUE SOUTH TO EIGHTH AVENUE SOUTH		
C-026	26 of 35	BACK LANE BETWEEN - 1st STREET S AND 2nd STREET S - FROM 7th AVENUE S TO 8th AVENUE S
C-027	27 of 35	BACK LANE BETWEEN - 1st STREET S AND 2nd STREET S - FROM 7th AVENUE S TO 8th AVENUE S FOURTH AVENUE SOUTH FROM SEVENTH STREET SOUTH TO SIXTH STREET SOUTH (DESIGNED BY OTHERS)
SECTIONS & DETAILS		
C-028	28 of 35	SECTIONS
C-029	29 of 35	SECTIONS & DETAILS
ELECTRICAL		
C-030	30 of 35	LAKEVIEW DRIVE - STREET LIGHTING PLAN
C-031	31 of 35	LAKEVIEW DRIVE - TRAFFIC SIGNALS PLAN

C-032	32 of 35	LAKEVIEW DR AT PARSONS STREET - TRAFFIC SIGNALS PLAN
C-033	33 of 35	FOURTH AVENUE SOUTH - STREET LIGHTING PLAN
C-034	34 of 35	PROJECT DETAILS
C-035	35 of 35	PROJECT SPECIFICATIONS

Lakeview Drive Traffic Staging Figures (Figure 1 – Figure 8)

END OF SECTION

PART 1 GENERAL

1.1 Preliminary Construction Schedule

.1 An overall Preliminary Construction Schedule for the Work is included in this section.

.2 Construction shall be completed, and Performance achieved by:

a) The date of Substantial Performance shall be September 25, 2026.

b) The date of Total Performance shall be October 2, 2026.

c) The date of Substantial Performance shall be when the Works are constructed under the Contract, or a substantial part thereof is ready for use or is being used for the purpose intended. Further to this, the Work to be done under the contract is capable of completion or correction at a cost of not more than:

i) 3% of the first $250,000 of the contract price,

ii) 2% of the next $250,000 of the contract price, and

iii) 1% of the balance of the contract price.

d) Construction Start Date shall be as Stipulated in Section 16 of the Instruction To Tenders Section of the Bid Documents but is expected to be no later than June 1, 2026.

.3 Schedule of Work

a) The Contractor shall be aware of additional scheduling requirements outlined in Section 01 14 00 – Working Restrictions of this Contract.

b) The Contractor shall provide the Contract Administrator with a detailed work schedule at least ten (10) calendar days prior to the commencement of any Work on site.

c) The Contractor shall not commence any Work until they are in receipt of the Letter of Intent as authorized by the Owner.

d) The Contractor shall not commence any Work on the site until the Contract Administrator has confirmed receipt of:

i) Evidence of workers compensation coverage;

ii) The Contractors safe work plan;

iii) A detailed work schedule;

iv) The Contractor shall not commence any Work on site until a representative of the Contractor has attended a pre-construction meeting with the Contract Administrator, or the Contractor Administrator has waived the requirement for a pre-construction meeting;

END OF SECTION

PART 1 GENERAL

1.1 The Contract

.1 The 2023 edition, Canadian Construction Documents Committee document for Civil Works Contract (CCDC 18), as modified herein forms the basis for the Contract.

.2 Contractors shall retain a copy of CCDC 18-2023 at the jobsite.

.3 Certain General Conditions of CCDC 18-2023 Contract are modified, revised, amended, supplemented as follows hereunder and shall be read in conjunction with CCDC 18-2023.

.4 OPSS.MUNI 100 NOV 2024 General Conditions of Contract shall apply as it relates to OPSS-specific works.

1.2 Definitions

.1 Refer to Definitions and revise Clause 4, "Consultant" to read "The Consultant shall mean the person designated by the Owner to review the construction of the Work on behalf of the Owner. Consultant and Contract Administrator shall be interchangeable throughout this document."

.2 Refer to Definitions and revise Clause 30, "Working Day" to read "Working Day means any Calendar Day, other than a Saturday, Sunday, or a statutory or civic holiday, on which the Consultant determines atmospheric and site conditions are such that the Contractor is able to work at least seven (7) hours during the period between 7:00 a.m. Central Standard Time (Kenora) or the time the Contractor's operations normally commence, whichever is the earlier, and 7:00 p.m.

.3 Refer to Definitions and add the following items:

a) Contract Administrator shall mean Stantec Consulting Ltd. that is authorized and appointed by the Owner to act for the purposes of this Contract within the authority and responsibility defined in the Contract Documents. The term Contract Administrator is interchangeable with the Consultant and Engineer.

b) Worksite shall mean the spatial limits within which the work and the Contractor's occupied areas are located during the period of performance of the Work from the date of Notice of Award to the date of the Total Completion Certificate.

c) Contractor's Superintendent shall mean an employee or representative of the Contractor who is specifically authorized to be in full charge of the Contractor's operations at the Worksite and is so designated in writing by the Contractor to the Owner.

d) Other Contractor shall mean any person, firm or corporation employed by the Owner on the site of the Project other than through the Contractor.

e) Progress Payment Certificate shall mean a claim for payment for Work done, prepared by the Contractor, reviewed, and certified by the Contract Administrator, upon which payment on account is made periodically by the Owner.

f) Construction Completion Certificate shall mean a certificate issued by the Contract Administrator upon full completion of the Work, including cleanup and rectification of all deficiencies.

g) Final Certificate shall mean the certificate issued by the Contract Administrator on behalf of the Owner or by the Owner, only at the request of the Contractor, after expiry of the Warranty Period, provided that the conditions of the Contract have been met.

h) Warranty Period shall mean the period beginning on the date specified in the "Construction Completion Certificate," and ending after all conditions of the Contract have been met, and the specified period has expired.

i) Field Instruction (FI) shall mean a written communication from the Owner, or from the Contract Administrator on behalf of the Owner, to the Contractor, clarifying the Contract Documents, issuing additional instructions, requesting information, or ordering a change in the Work within the general scope of the Work.

j) Proposed Change Notice (PCN) shall mean a written communication from the Contract Administrator, on behalf of the Owner, describing a change in the Work and requesting a Change Order, complete with a narrative description of the details of the Work to be done by the Contractor to achieve the intent of the contemplated change.

k) The term Change Order (CO) shall mean a written proposal by the Contractor to the Owner for doing the Work required to achieve the contemplated change, including both cost and time implications for doing the Work.

l) The term Plant shall mean collectively all tools, implements, machinery, vehicles, structures, equipment and other things required for the execution of the Work, and provided by the Contractor.

m) The term Material shall mean collectively all materials and commodities required to be furnished under the Contract for the Work except those specifically provided for otherwise in the Contract Documents.

n) The term Product shall mean collectively machinery or assembled components specifically provided for the Work and standard Product such as motors, pumps, etc. designed and produced for a specific use.

o) Total Performance is defined as the entire Work, except those items arising from the provisions of General Conditions GC 12.3, has been performed in accordance with the Contract Documents.

p) The term Receiving Officer shall mean the representative of the Contract Administrator that receives the bids.

1.3 GC 1.1 Contract Documents

.1 Refer to General Conditions GC 1.1 "Contract Documents":

a) Add the following items to paragraph 1.1.5:

i) Constructed works take precedence over drawing dimensions and details. Prior to fabrication of any item dependent upon accurate dimensions or details of constructed works, the Contractor shall take field measurements of such constructed works.

ii) If none of the above applies, the Contractor shall notify the Consultant whose decision shall be final.

b) Revise paragraph 1.1.8 to read "The Contract Administrator will furnish to the Contractor two (2) working copies of the Contract Documents (2 – 24"x36" drawing sets and 2 specifications). If the Contractor requires additional sets of the Contract Documents, they will be supplied at cost."

1.4 GC 2.1 Authority of the Consultant

.1 Refer to General Conditions GC 2.1 "Authority of the Consultant" and add the following:

2.1.3 The Consultant will have authority in an emergency to stop the progress of the Work wherever, in their opinion, such stoppage may be necessary to ensure the safety of life, or of the Work, or of adjoining property. This includes authority to make such changes and to order, assess and award to the Contractor the cost of such extra work to the Contract or otherwise as may in his opinion is necessary.

2.1.4 The Consultant will have the authority to stop the progress of the Work whenever, in his opinion, the Work is being conducted in a manner that contravenes this Specification.

1.5 GC 2.2 Role of the Consultant

.1 Refer to General Conditions GC 2.2 "Role of the Consultant" and revise 2.2.3 to read as follows:

2.2.3 The Consultant may provide at the Place of Work, one or more representatives to assist in carrying out the Consultant's responsibilities.

1.6 GC 2.3 Review and Inspection of Work

.1 Refer to General Conditions GC 2.3 "Review and Inspection of the Work" and add the following:

2.3.1.1 All workmanship and all materials furnished and supplied under this Specification are subject to inspection and testing by the Consultant including all operations from the selection and production of materials through final acceptance of the specified Work. The Contractor shall be wholly responsible for the control of all operations notwithstanding any inspection or approval that may have been previously given. The Consultant reserves the right to reject any materials or works which are not in accordance with the requirements of this Specification.

2.3.2.1 Reasonable shall mean 48 hours in this instance.

2.3.2.2 The Consultant shall inspect the Work in the Owner's interest for the purpose of promoting effective completion of the Work until the Construction Completion Certificate is issued, and such inspection or lack of it shall not relieve the Contractor of its responsibility to perform the Work in accordance with the Contract.

2.3.8 The Consultant shall record all changes made during construction and provide record drawings to the Owner upon completion of the Work.

1.7 GC 2.4 Defective Work

.1 Refer to General Conditions GC 2.4 "Defective Work" and add the following:

2.4.4 If, in the opinion of the Consultant, the correction of defective Work or Work not done in accordance with the Contract Documents will delay the construction of other portions of the project, the Consultant may revise the design of other portions of the project to accommodate the defective work. The cost of such changes (including the design and administration fees along with a reduction in the unit prices for particular items) shall be deducted from the contract price, the amount of which shall be determined in the first instance by the Consultant.

2.4.5 Work that has not been rejected specifically by the Contract Administrator shall not therefore be deemed accepted or approved by the Contract Administrator.

1.8 GC 3.4 Construction Schedule

.1 Refer to General Condition GC 3.4 "Construction Schedule" and replace General Condition GC 3.4.1.1 with the following:

3.4.1.1 The Contractor shall submit a construction schedule in accordance with Section 01 32 16 of this Specification.

1.9 GC 3.5 Supervision

.1 Refer to General Condition GC 3.5 "Supervision" and add the following:

3.5.3 The appointed representative shall have authority to issue Quotations for Contemplated Change, sign Change Orders, attend meetings on and off

the Worksite, give instructions to the Contractor's Superintendent all on behalf of the Contractor and generally represent the Contractor with respect to the Contract. The Contractor shall also designate the site superintendent and any additional personnel representing the Contractor and their respective roles and responsibilities for the Work.

3.5.4 The Contractor shall not replace or otherwise changes its appointed representative without the prior written approval of the Owner.

3.5.5 The Owner shall have the authority to order the removal from the Work of any supervisor, employee, or other person employed by the Contractor or its Subcontractors who, in the opinion of the Owner, is incompetent, negligent, or otherwise detrimental to the progress, safety, or quality of the Work. Such removal shall be carried out promptly by the Contractor, and the Contractor shall not be entitled to any adjustment in Contract Price or Contract Time as a result of such removal.

1.10 GC 3.6 Layout of the Work

.1 Refer to General Conditions GC 3.6 "Layout of the Work" and revise paragraph 3.6.1 to read as follows:

3.6.1 The Consultant shall, in Consultation with the Contractor, establish reference points for construction where necessary for the Contractor to proceed with the Work.

.2 Refer to General Conditions GC 3.6 "Layout of the Work" and add the following:

3.6.4 The Contractor shall be responsible for construction layout and all survey stakes lath, paint, and flagging required to establish reference points for construction. The cost for this service is incidental to the work and shall be borne by the Contractor.

1.11 GC 3.8 Labour and Products

.1 Refer to General Condition GC 3.8 "Labour and Products" and add the following:

3.8.1.1 The Contractor shall at all times enforce discipline and good order among its employees, and shall not employ on the Work any unfit person or anyone not skilled to do the Work assigned. Any person employed on the Work who becomes intoxicated, intemperate, disorderly, incompetent, or willfully negligent, shall be removed from the Work.

3.8.3.1 The Contractor shall use Material and Product of Canadian manufacture to the fullest extent practicable.

3.8.3.2 Unless otherwise specified, all Material and Product shall be new and of good quality. The Contractor shall furnish satisfactory evidence as to the kind and quality of Material and Product. The Contractor shall be responsible for replacement at its own cost of all Material and Product

that are found to be defective in manufacture or that have become damaged in handling.

3.8.3.3 The Contractor shall be responsible for the safe storage of Material and Product furnished by or to the Contractor, and accepted by the Contractor, and intended for the Work, until it has been incorporated into the Work.

3.8.3.4 Where, in the specifications or on the drawings, any Material, Product or method is specified, the Contractor may not use another Material, Product, equipment or method unless the Contract Administrator has issued to the Contractor a written authorization for the use. The Contractor shall submit in writing an application for review to the Contract Administrator. All submissions shall be accompanied by sufficient data including the following:

.1 Delivery

.2 Manufacture

.3 Technical Data and Specifications in accordance with the International System of Units (S.I.) - metric units

.4 Specified Material, Product, or method for which the alternative is submitted.

.5 Prices in relation to the Material; method or Product specified originally.

Where required by the Contract Administrator, samples shall be submitted.

3.8.3.5 Whenever alternatives of Material, Product or methods are accepted for the Work, whether as a result of an alternative Proposal by the Contractor or an equivalent alternative submitted by the Contractor, the Contractor shall guarantee that the performance of the alternative Material, Product, or method shall be equivalent to what was originally specified.

3.8.3.6 Whenever alternatives of Material, Product or methods are accepted for use on the Work, whether as a result of an alternative proposal by the Contractor or an equivalent alternative submitted by the Contractor, the Contractor shall be responsible for making all consequent adjustments, at its own expense, to make the alternative fit into the Work as specified.

3.8.4 The Contractor shall employ Canadian Labour to the fullest practical extent and shall ensure that no person will be discriminated against because of race, colour, gender, age, religion, or origin.

3.8.5 Wages and hours of labour shall be in compliance with Federal, Provincial or Territorial enactment, whichever governs.

1.12 GC 3.9 Shop Drawings

.1 Refer to General Condition GC 3.9 "Shop Drawings" and add the following:

3.9.8 When required by the Specifications or Drawings, the Contractor shall submit to the Contract Administrator a written description and Drawings to show its proposed methods and means for doing certain specified items of the Work. These submissions are to be made to allow the Contract Administrator on the Owner's behalf to:

.1 Determine the general conformance of the proposed means and methods with the intent of the design;

.2 Determine whether there are or could be any serious effects of a permanent nature on the Work, the Worksite, or the contiguous area outside the Worksite.

3.9.9 The Owner, or the Contract Administrator on the Owner's behalf may, but they are not obligated to, comment, give approval or withhold approval of the proposed means and methods.

3.9.10 The Contract Administrator may stop the Contractor from implementing the proposed means and methods by issuing a Field Order.

3.9.11 In addition to GC 3.9, the Contractor shall submit Shop Drawings in accordance with Section 01 33 23 – Shop Drawings.

1.13 Material and Product Supplied by the Owner

.1 The Owner undertakes to supply only such Material or Product as are specifically shown in the Contract Documents as being provided by the Owner.

.2 It shall be the responsibility of the Contractor to arrange for and schedule delivery and storage of Material and Product supplied by the Owner.

.3 The Contractor's responsibility for Material and Product furnished by the Owner shall begin at the time and place of delivery thereof to the Contractor. Material and Product already on the site shall become the Contractor's responsibility on the date specified in the Notice of Award. The Contractor shall be responsible for unloading all Owner-supplied Material and Product and the Contractor and the Contract Administrator shall jointly examine them at the time and place of delivery to the Contractor, and shall prepare a statement of acceptance, specifically noting any defects and rejecting any defective Material or Product. The Contractor shall sign a Statement of Acceptance of Material and Product when accepting them into its charge. Any Material and Product furnished by the Owner and installed by the Contractor shall, if found defective, be replaced by the Contractor. The Contractor, shall, at its own expense, furnish supplies, labour, and facilities necessary to remove the defective Material and Product and install the sound Material and Product in a satisfactory manner.

1.14 Storage Facilities and Use of Premises

.1 The Contractor may use such facilities and areas as the Owner may be willing and able to designate for the storage of Material and Product for the Work, without charge to the Contractor.

.2 Should the Contractor require additional facilities or areas, the Contractor shall make all the necessary arrangements with the Owners or occupants of such other facilities or areas and shall pay all rentals and all damages caused by such occupancy.

.3 The Contractor shall confine its apparatus, the storage of Material and Product and the operations of its workers to limits indicated by law, ordinances, permits or directions of the Contract Administrator and shall not unreasonably encumber the premises with its Material, Product or Plant.

.4 The Contractor shall enforce all regulations and rules for the Worksite regarding signs, advertisements, fires, smoking, and storage of inflammable Material or Product, and disposal of wastes.

.5 The Contractor shall not load or permit any part of the Work or of the Owner's structures to be loaded in any way that will endanger their safety.

.6 All storage facilities and use of premises used by the Contractor shall be returned to their pre-construction / pre-mobilization condition upon completion of the Work. Any pre-negotiated agreements with landowners shall be completed in accordance with the clauses agreement. Returning the areas damaged or affected by the Contractor shall be completed to the satisfaction of the Owner and Contract Administrator. The Contract Administrator shall have final say in this matter. The costs to return the areas to their pre-existing condition shall be borne entirely by the Contractor and will not cause for increase to the Contract Price.

1.15 GC 5.4 Application for Progress Payment

.1 Refer to General Conditions GC 5.4 "Application for Progress Payment" and delete paragraphs 5.5.1 to 5.5.3 in their entirety and replace with the following:

.1 The Contractor will not be required to make an application for payment. The Progress Certificate will be made out on the basis of quantities measured on the site by the Consultant as stated in the "Measurement and Payment" clauses.

1.16 GC 5.6 Substantial Performance of the Work and Payment Holdback

.1 Refer to the General Conditions GC 5.6 "Substantial Performance of the Work and Payment Holdback" and add the following:

5.6.7 The following documents shall be required of the Contractor by the Consultant, prior to issuance of the Certificate of Substantial Performance:

i) Special written guarantees as may be required in the technical Specifications

ii) Inspection certificates as specified and as may be required from all Municipal, Provincial, and Federal agencies having authority over the Work performed under this Contract.

5.6.8 The Contractor shall achieve Substantial Performance of all Work by September 25, 2026.

5.6.9 A two percent (2%) warranty holdback will be retained on all work performed under the contract. The warranty holdback will not be released to the Contractor until one (1) year warranty period has expired and all deficiencies have been corrected and completed as described in GC 12.3 – WARRANTY.

1.17 Total Performance

.1 The Contractor shall achieve Total Performance of all Work by October 2, 2026.

.2 When the Contractor or the Consultant considers the Work to be totally performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Consultant for purposes of verifying Total Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Consultant notified that the Work can be reinspected.

.3 The date on which the Work has been certified by the Consultant as being totally performed to the requirements of the Contract through the issue of a Certificate of Total Performance is the date on which Total Performance has been issued.

1.18 Liquidated Damages

.1 Should the Contractor fail to complete the Work in accordance with Sections 1.19 or 1.20 of the Supplementary Conditions to the satisfaction of the Consultant, the Contractor shall pay to the Owner amounts payable by the Owner in respect of site supervision of the Work the sum of Five hundred dollars ($500.00) for each and every Calendar Day that the Work or works shall remain unfinished after the time so specified. Five hundred dollars ($500.00) is not a penalty, but rather an estimate of the Liquidated Damages that the Owner will suffer by reason of said delay and default. The calculations of Liquidated Damages will be based on the real costs to the Owner. The Owner reserves the right to recover any other kinds of damages or losses which were not known or calculable when the Liquidated Damages were determined. The Owner may deduct and retain the amounts of such Liquidated Damages out of the monies, which may be due or become due to the Contractor under the Contract.

1.19 GC 5.7 Final Payment

.1 Refer to General Conditions 5.7 "Final Payment" and add the following:

5.7.5 On completion of construction and required testing the Contractor shall arrange, attend, and assist in the inspection of the Work by the Consultant. Any deficiencies noted shall be corrected by the Contractor in accordance with these Specifications. The Consultant will arrange a Completion Inspection by the Owner as soon as the deficiencies are corrected. The Contractor shall attend and assist this detailed inspection of the Work by the Owner Deficiencies noted by the Completion Inspection shall be corrected by the Contractor.

5.7.6 The Completion date for the Contract shall be the date on which there are no deficiencies by Owner inspection. The Final Progress Certificate and Final Certificate of Completion will be issued on the completion date. The maintenance period will commence on the completion date.

5.7.7 Prior to expiry of the maintenance period the Contractor shall arrange, attend and assist inspection of the Work by the Consultant. The Contractor shall correct any Contract deficiencies noted and perform such extra work as required for acceptance by the Owner. The Consultant will arrange an Acceptance Inspection by the Owner as soon as the Work is in satisfactory condition. The Contractor shall attend and assist this detailed inspection of the Work by the Owner. Deficiencies noted by the Acceptance Inspection shall be corrected by the Contractor.

.2 The Acceptance date for the Contract shall be the date on which there are no deficiencies by Owner inspection. The Final Acceptance Certificate will be issued on the Acceptance date.

1.20 GC 6.2 Change Order

.1 Refer to General Conditions GC 6.2 "Change Order" and add the following:

6.2.1.1 Whenever practical, notice will be given of a proposed change by the issuance of a Proposed Change Notice (PCN).

6.2.1.2 The Contractor shall respond within five (5) working days by indicating any changes to the Contract in cost and/or time beside each item and attach a complete cost breakdown showing separately, materials, labour, and percent mark-up for each item.

6.2.2.4 When the Contract Price is to be adjusted by the method of a lump sum, the adjustment shall be in accordance with the following:

i) Cost: The valuation of any changes shall include the following costs:

– Cost of material required for the change at list price less trade discount.

– Cost of labour and supervision required for the change, including all statutory and labour agreement charges.

– Cost for the use of rental rates plus transportation costs.

– Other costs for the change that are recognized as Contractors' costs by CCDC Document No. 18, 2023.

ii) Mark-up: Cost for increases in the Work, unless otherwise agreed, shall be marked up as follows for overhead and profit:

– Contractor:

- Ten percent (10%) overhead and five percent (5%) fee on the cost of their own work, and five percent (5%) overhead and five percent (5%) fee on their Subcontractors' prices.

– Subcontractor:

- Ten percent (10%) overhead and five percent (5%) fee on the cost of their own work. No markup on the Sub-subcontractors' price, unless the Sub-Subcontractor has not marked up their prices, allowing for five percent (5%) overhead and five percent (5%) fee on their Subcontractors' prices.

– Sub-Subcontractors:

- Ten percent (10%) overhead and five percent (5%) fee on the cost of their own work.

iii) Substantiation: If requested, the Contractor shall submit details of quantities, prices and fees, as outlined above, together with substantiating documentation.

1.21 GC 7.1 Owner's Right to Perform the Work, Terminate the Contractor's Right to Continue with the Work, or Terminate the Contract

.1 Refer to General Conditions GC 7.1 "Owner's Right to Perform the Work, Terminate the Contractor's Right to Continue with the Work, or Terminate the Contract" and add the following:

7.1.7 The Owner may suspend the execution of the Work by giving written notice to the Contractor to that effect.

7.1.8 The Contractor, upon receiving such written notice, shall immediately suspend all operations except those necessary for the care and preservation of the portions of the Work already executed, and the Worksite.

7.1.9 During the period of suspension, the Contractor shall not remove from the Worksite any part of the Work or any Material, Product or Plant without the written approval of the Owner.

7.1.10 If the period of suspension is thirty (30) calendar days or less, the Contractor shall, upon expiry of the suspension, resume the execution of the Work and shall be paid additionally all reasonable costs incurred because of the suspension. The additional costs shall be claimed by the Contractor and shall be verified by a determination of the Contract Administrator in the first instance.

7.1.11 After thirty (30) calendar days of suspension of the Work, the Owner at its sole option shall:

.1 Negotiate terms under which the Contractor shall continue with the execution of the Work and the Contractor shall then resume operations in accordance with the terms of that negotiation; or

.2 Deem the Notice of Suspension to be a Notice of Termination of the Contract. In the event of Termination, the Contractor shall be paid reasonable costs incurred due to the suspension. The additional costs shall be claimed by the Contractor and verified in the first instance by a determination of the Contract Administrator. The Contractor shall not have a claim for loss of profit on that portion of the Work not performed.

7.1.12 After thirty (30) calendar days of suspension of the Work, the Contractor shall be allowed to remove any or all of its Plant from the Worksite without further approval from the Owner.

1.22 GC 9.1 Protection of Work and Property

.1 Refer to General Conditions GC 9.1 "Protection of Work and Property" and add the following:

9.1.5 In an emergency affecting the safety of life, or of the Work, or adjoining property, the Contractor, without special instruction or authorization from the Contract Administrator, shall act at its discretion to prevent such threatened loss or injury. Liability for payment for such action and the amount thereof shall be determined in the first instance by the Contract Administrator.

9.1.6 If the Contract Administrator becomes aware of an emergency affecting the safety of life, or of the Work, or of adjoining property, and the Contractor, having been advised in writing of the emergency, fails or refuses to act to prevent such threatened loss, injury or damage, or if the Contract Administrator is unable to advise the Contractor, the Contract Administrator may order labour, Material, and Plant to be applied to prevent loss, injury or damage. The cost of labour, materials and equipment so used shall be the responsibility of the Contractor, and such action by the Contract Administrator shall not relieve the Contractor of any responsibility for loss, injury, or damage which does occur.

9.1.7 The Contractor is responsible for identifying the location of all utilities and utility requirements in the Project Area and providing required protection to said utilities as instructed by the utility owners or as noted within the Contract Documents.

1.23 GC 9.4 Construction Safety

.1 Refer to General Conditions GC 9.4 "Construction Safety" and add the following:

9.4.6 The Contractor shall be the Prime Contractor and shall serve as and have the duties of the Prime Contractor in accordance with the Occupational Health and Safety Act (Ontario).

9.4.7 The Contractor shall provide the Contract Administrator with a Safe Work Plan at least five (5) Working Days prior to the commencement of any work on the site.

9.4.8 In any case where, pursuant to the provisions of the applicable Occupational Health and Safety Act or its Regulations, an order is given to the Contractor or to one of its Subcontractors with respect to their operations under this Contract to cease operations for any reason (for examples, because of failure to install or adopt safety devices or appliances or methods as directed or required by the Act or Regulations thereunder, or because conditions of immediate danger exist that would be likely to result in injury to any person), the Contractor shall immediately obey such order and shall immediately take whatever steps are necessary to eliminate the cause of the order.

9.4.9 In the event that the Contract Administrator discovers a dangerous condition which in the Contract Administrator's opinion is likely to result in injury to any person, and there is no one in authority from the Contractor available or capable of removing the danger resultant from the Contractor's operations, and no Officer of the Crown is available to take charge, then the Contract Administrator may:

.1 issue a Field Instruction to the Contractor's workers to vacate the area of danger;

.2 issue a Field Instruction to the Contractor requiring the immediate correction of the dangerous condition; and

.3 notify the appropriate Officer(s) under the applicable Occupational Health and Safety Act,

and no such action by the Contract Administrator shall in any way remove the responsibility for the matter from the Contractor, and the Contractor shall bear all related costs without recourse.

9.4.10 In the event that the Contract Administrator discovers a dangerous condition which in the Contract Administrator's opinion is likely to result in damage to any property, and there is no one in authority from the Contractor available or capable of removing the danger resultant from the Contractor's operations, and

no Officer of the Crown is available to take charge, then the Contract Administrator may issue Written Notice to the Contractor and may immediately arrange for the removal of this danger and the Contractor shall be liable for the costs of such arrangements, but such act by the Contract Administrator shall not relieve the Contractor of responsibility for injury, loss of life, or damage which may occur in that situation.

9.4.11 In the event that the Contractor refuses or fails to comply with an order under the Act or Regulations thereunder, so that the performance of the Work is stopped, the Owner may, upon written notice, terminate the Contract.

1.24 GC 10.1 Taxes and Duties

.1 Refer to General Conditions GC 10.1 "Taxes and Duties" and add the following:

10.1.3 The Federal Goods and Services Tax (GST) or the Harmonized Sales Tax (HST) is included in the Tender Price and in the Contract Price.

10.1.4 The Contractor shall show separately on each Progress Payment Claim the amount of GST or HST required by the Act for the total amount of the Progress Payment Claim before Holdback deduction. GST or HST on the net amount of payment after Holdback deduction will be paid to the Contractor by the Owner in addition to the Net payment of each Progress Payment Claim.

10.1.5 GST or HST applicable to the Holdback will be paid to the Contractor upon release of the Holdback. The Contractor shall remit the GST or HST in accordance with the Act.

1.25 GC 10.2 Laws, Notices, Permits and Fees

.1 Refer to General Conditions GC 10.2 "Laws, Notices, Permits and Fees" and add the following:

10.2.8 The Contractor shall comply with, and the Work shall be carried out, subject to, all regulations and orders made by any Municipal, Provincial, Federal, or other governmental authority and applicable to the said Work, and shall, at his own expense, obtain all necessary permits and approvals required.

10.2.9 The Contractor shall observe and comply with the requirements of the Occupational Health and Safety Act (Ontario) and all addendums thereto under the Occupational Health and Safety Act (Ontario), for the safety of all personnel to be employed on the project.

10.2.10 The Contractor shall make all arrangements with local authorities, operating departments, railway and highway officials, utility and service companies and the like, for detours, crossings, traffic control and similar requirements relating to performance of the Work and shall at its own cost observe their requirements and regulations.

1.26 GC 11.1 Insurance

.1 Refer to General Conditions GC 11.1 "Insurance" and replace General Condition GC 11.1.1.1 and 11.1.1.2 with the following:

11.1.1.1 Commercial General Liability Insurance:

Commercial general liability insurance, in the amount of at least ten million dollars ($10,000,000.00) inclusive, with the Owner added as an additional insured, with a cross-liability clause, such liability policy to also contain contractual liability, unlicensed motor vehicle liability, non-owned automobile liability, broad form property damage cover and products and completed operations, to remain in place at all times during the performance of the Work and throughout the warranty period;

11.1.1.2 Automobile Liability Insurance:

Automobile liability insurance for owned automobiles used for or in connection with the Work in the amount of at least ten million dollars ($10,000,000.00) at all times during the performance of the Work and until the date of Total Performance;

.2 Add Clause 11.1.9.

11.1.9 The Contractor shall provide the Owner with a certificate(s) of insurance, in a form satisfactory to the Owner, at the time of tender closing.

.3 The Contractor shall not cancel, materially alter, or cause each policy to lapse without providing at least thirty (30) days prior written notice to the Consultant.

.4 This Policy shall be in the form of the latest edition of the relevant CCDC endorsement form.

1.27 GC 12.3 Warranty

.1 Revise paragraph 12.3.1 to read: "…the warranty period under the Contract is **one** year from the date of Substantial Performance of the Work."

.2 Refer to General Conditions GC 12.3 "Warranty" and revise paragraph 12.3.3 to read the following:

"The Owner or Contract Administrator shall notify the Contractor promptly of observed defects and deficiencies. If the Contractor does not cause repairs to be made within ten (10) Working Days after such notice, the Owner shall have the right to purchase Material and employ workers to execute said repairs, and the cost of the same shall be the responsibility of the Contractor or its Surety."

.3 Refer to General Conditions GC 12.3 "Warranty" and add the following:

12.3.7 After due notification in writing to the Contractor, the Owner may proceed with correction of a fault at the expense of the Contractor and

his Surety. In emergency situations endangering life or public property, the Owner shall proceed with repairs and thereupon advise the Contractor of the failure. The resulting costs shall be paid by the Contractor.

12.3.8 Upon the expiration of the Warranty Period, the successful conclusion of any tests required by the Contract and satisfactory performance under operating conditions meeting the Work performance Warranty, the Owner shall accept the Work and a Final Certificate may be issued if required by the Contractor. It shall be the responsibility of the Contractor to apply in writing to the Contract Administrator for a Final Certificate.

12.3.9 The issuance of a Final Certificate shall not release the Contractor from responsibility for any defects in its Work, Product or Material for which the Contractor may in future be found liable in a court of law or otherwise.

1.28 Definition of the Owner and Contract Administrator within Referenced Construction Specifications

.1 Where specific Construction Specifications are referenced within these Contract Documents, all references within the referenced specification to the Owner, the Province, the Department etc. shall be taken to imply the City of Kenora as the owner of the 2026 Municipal Paving Program.

.2 Where specific Construction Specifications are referenced within these Contract Documents, all references within the referenced specification to the Engineer, Contract Administrator, Owner's Representative etc. shall be taken to imply the Stantec Consulting Ltd. as the Contract Administrator of the 2026 Municipal Paving Program.

.3 The City of Kenora may assume both the role of Owner and Contract Administrator under this Contract.

END OF SECTION

PART 1 GENERAL

1.1 Work Under this Contract

.1 The Work under this Contract consists of the following:

2026 Municipal Paving Program

a) Section A: Lakeview Drive Reconstruction– from the Winnipeg River West Branch to the Winnipeg River East Branch

b) Section B: Lakeview Drive – Parsons Street Intersection

c) Section C: Railway Street Reconstruction Phase 4 – from #1629 to #1736 Railway Street

d) Section D: Fourth Avenue South Reconstruction – from Fifth Street South to 100m South

e) Section E: Backlane Reconstruction – between First Street South and Second Street South from Seventh Avenue South to Eighth Avenue South

f) Section F: Sixth Street South – from Fourth Avenue South to Seventh Avenue South

g) Section G: Sixth Street South – from Fifth Street South to Sixth Street South

h) Section H: CPKC Rail Sidewalk Crossing at Railway Street

.2 The major components of work include but are not limited to:

a) Excavation and Rock Excavation

b) Supply and Placement of Geotextiles

c) Supply and Placement of Granular Materials

d) Supply and Placement of Hot Mix Asphalt

e) Supply and Placement of Concrete

f) Landscaping

g) Supply and Installation of Catch Basins and Steel Pipe Culverts

h) Completion of Sewer Repairs

i) Installation of Pavement Markings and Signs

j) Modification and/or Installation of Traffic Signals

k) Removal, Repair and/or Installation of Steel Beam Guardrails

l) Installation of Streetlighting

1.2 Work Included

.1 The Work shall include the items described above and as detailed within these Contract Documents.

.2 The Work, unless specifically stated otherwise, shall include the furnishing of all Material, Product, Plant, labour, and transportation necessary to complete the Work. The intent is that the Contractor provides a complete job.

.3 The Work shall not be deemed complete until all components are placed in operation by the Contractor and are operating satisfactorily.

.4 Any minor item of the Work not called for in the Specifications or shown on the Drawings but clearly required to meet the intent of design and normally provided for the proper operation of the Work shall be provided as if specifically called for in the Contract Documents.

1.3 Documents Required

.1 Maintain at the Worksite at least one (1) copy of each of the following:

a) Contract Documents

b) Contract Drawings

c) Specifications

d) Addenda

e) Change Orders, Field Orders, Notices

f) Reviewed Shop Drawings

g) Modifications to the Contract

h) Field Test Reports

i) Construction Schedule

j) Manufacturer's Installation and Application Instructions

k) Occupational Health and Safety Regulations and Workers' Compensation Board Regulations

l) Regulatory Agency Approval Letters and/or Letters of Advice

.2 Have readily available any referenced or specified Standards.

1.4 Specifications

.1 Sentence structure in parts of the Specifications is abbreviated, and phrases such as "shall be," and "the Contractor shall" are deliberately omitted. Such sentences shall be read as though they are complete.

.2 The use of the word "Provide" means "supply and install"; or "supply labour and Materials for the installation of". It does not mean supply only.

.3 The word "concealed" in connection with piping, electrical work, controls and wherever used in other sections shall mean "hidden from sight" as in ceiling spaces or furred out spaces, and not normally visible to persons in the construction area.

1.5 The word "exposed" in connection with piping, electrical work, controls and whenever used in other sections shall mean visible to persons within a building, in normal working areas.

1.6 Standards

.1 Wherever Standards (e.g., CSA, ASTM, and others), are referred to in these Contract Documents the current edition at the date of closing of Bid shall apply.

.2 Where there is a clear conflict between the referenced Standard and the Contract Documents, the Contract Documents shall apply.

.3 Where there is an ambiguity between a Standard and any term of these Contract Documents, the Contract Administrator shall, in the first instance, give an interpretation of the intent of the Contract.

END OF SECTION

PART 1 GENERAL

1.1 Description

.1 This Section specifies working restrictions, construction staging requirements, limits on concurrent work areas, enforcement measures, and acceleration incentives for the City of Kenora 2026 Municipal Paving Program.

1.2 Related Sections

.1 The Contractor shall organize, schedule, and execute the Work to minimize disruption to the public, adjacent property owners, emergency services, and City operations.

.2 The Contractor shall comply with all working restrictions specified herein. These restrictions are a fundamental condition of the Contract.

.3 No additional compensation shall be allowed for compliance with this Section.

.1 Definitions

.1 **Active Construction Section**:
A defined work section where construction activities are underway and where the roadway, sidewalk, or backlane has not been fully restored to a safe, serviceable, and trafficable condition acceptable to the Contract Administrator.

.2 **Continuous Construction**:
Uninterrupted progress through all stages of construction within a section, including removals, underground works, granular placement, paving, concrete works, and surface restoration.

PART 2 PRODUCTS – NOT USED

PART 3 EXECUTION

3.1 Limitation on Concurrent Work

.1 At no time shall more than three (3) Active Construction Sections be open concurrently.

.2 The Contractor shall not commence Work in a fourth section until one of the active sections has been completed and restored to a condition acceptable to the Contract Administrator.

.3 Traffic control, excavation, staging, or partial restoration shall not be used to circumvent this limitation.

3.2 Continuous Construction Requirement

.1 Once construction has commenced within a section, the Contractor shall proceed continuously until construction of that section is complete.

.2 The Contractor shall not suspend, abandon, or significantly demobilize from a section for the purpose of advancing work in another section without written authorization from the Contract Administrator.

.3 Approved delays beyond the Contractor's control shall not relieve the Contractor of the obligation to resume continuous construction immediately once conditions permit.

3.3 Defined Work Sections and Anticipated Durations

.1 The work shall be completed within the following individual sections. Maximum allowable Calendar Days are provided for scheduling purposes and shall be reflected in the Contractor's construction schedule.

Section A – Lakeview Drive Reconstruction – From Winnipeg River West Branch to Winnipeg River East Branch – Anticipated Duration Not Applicable

Section B – Lakeview Drive – Parsons Street Intersection – 28 Calendar Days (4 weeks)

Section C – Railway Street Reconstruction Phase 4 – From #1629 to #1736 Railway Street – 35 Calendar Days (5 weeks)

Section D – Fourth Avenue South Reconstruction – From Fifth Street South to approximately 100 m south – 28 Calendar Days (4 weeks)

Section E – Backlane Reconstruction – Between First Street South and Second Street South, from Seventh Avenue South to Eighth Avenue South – 21 Calendar Days (3 weeks)

Section F – Sixth Street South – From Fourth Avenue South to Seventh Avenue South – 28 Calendar Days (4 weeks)

Section G – Sixth Street South – From Fifth Street South to Sixth Avenue South – 28 Calendar Days (4 weeks)

Section H – Provisional – CPKC Rail Sidewalk Crossing at Railway Street – 21 Calendar Days (3 weeks)

3.4 **Construction Scheduling**

.1 The Contractor shall submit a detailed construction schedule demonstrating compliance with:

.1 Maximum number of active sections; and

.2 Continuous construction requirements for each section.

.2 The schedule shall clearly identify start and completion dates for each section.

3.5 **Critical Stages – Working Restrictions**

.1 Failure to comply with the working restrictions specified in this Section, including but not limited to:

.1 Exceeding the maximum number of active construction sections; or

.2 Failure to proceed continuously within an active section;

.2 shall result in liquidated damages in the amount of five hundred dollars ($500) per site per calendar day for each day of non-compliance.

.3 Liquidated damages shall apply individually to each non-compliant section and may be deducted from any monies owing to the Contractor.

.4 Liquidated damages are not a penalty but represent a genuine pre-estimate of damages incurred by the City.

3.6 **Acceleration Incentive – Lakeview Drive (Section A)**

.1 An acceleration incentive applies to Section A – Lakeview Drive Reconstruction.

.1 If Section A is completed no later than August 27th, the City shall pay the Contractor a lump sum acceleration bonus of fifteen thousand dollars **($15,000).**

.2 If Section A is completed no later than August 14th, the City shall pay the Contractor a lump sum acceleration bonus of an additional fifteen thousand dollars **($15,000).**

.2 Completion shall be defined as full construction and restoration of the roadway to a condition acceptable to the Contract Administrator, including final surface lift of asphalt pavement, boulevard grading, topsoil and sod placements as well as new lighting and signals infrastructure in full operation.

.3 No partial or prorated bonus shall be paid.

.4 No extension of time request will be considered for the acceleration bonus

3.7 **Working Restrictions – CPKC Railway Crossing**

.1 General Requirements

.1 Work within or adjacent to the Canadian Pacific Kansas City (CPKC) Railway corridor at the Railway Street sidewalk crossing (Section H) shall be subject to all CPKC requirements, approvals, and safety protocols.

.2 The Contractor shall be solely responsible for coordinating all aspects of the Work with CPKC directly, including but not limited to access permissions, work windows, safety requirements, and construction sequencing.

.3 The City shall not be responsible for delays, costs, or schedule impacts arising from CPKC coordination requirements.

.2 Railway Flagging and Protection

.1 The Contractor shall arrange for and provide railway flagging protection as required by CPKC for the duration of all Work within or affecting the railway corridor.

.2 All costs associated with railway flagging, protection services, standby time, and related railway safety measures shall be borne entirely by the Contractor and shall be deemed included in the Contract Price.

.3 The Contractor shall ensure that railway flagging personnel are present whenever required by CPKC and that no Work proceeds in the absence of required railway protection.

.3 Scheduling and Coordination Constraints

.1 Work at the CPKC Rail Crossing shall be subject to railway-approved work windows and may be restricted to specific dates or times as dictated by CPKC.

.2 The Contractor shall incorporate all CPKC coordination requirements, approvals, and anticipated railway-related delays into the construction schedule.

.3 Failure to secure required railway approvals or flagging shall not be grounds for a claim for additional time or compensation.

.4 Compliance

.1 The Contractor shall comply with all applicable CPKC standards, protocols, and permit conditions while working within the railway right-of-way.

.2 Non-compliance with CPKC requirements shall be considered non-compliance with this Contract and may result in suspension of the Work until deficiencies are corrected, at no additional cost to the City.

3.8 Sequencing Restriction – Fourth Avenue South (Section D)

.1 Construction of Section D – Fourth Avenue South Reconstruction shall not commence until the completion of the City of Kenora 2026 Sewer and Water Contract along the Fourth Avenue South back lane**.**

.2 Completion of the Sewer and Water Contract shall be defined as the point at which all underground works are complete and the back lane is restored to a condition suitable to support roadway construction, as confirmed by the City.

.3 The Contractor shall coordinate construction sequencing with the City to ensure that Section D is scheduled to commence only after confirmation that the Sewer and Water Contract work has been completed.

.4 The Contractor acknowledges that the Sewer and Water Contract is anticipated to be completed by the end of July 2026; however, this anticipated timing is provided for information only and does not constitute a guaranteed completion date.

.5 Delays associated with the completion of the Sewer and Water Contract shall not entitle the Contractor to additional compensation.

.6 Upon confirmation of completion of the Sewer and Water Contract, the Contractor shall mobilize and commence construction of Section D without unreasonable delay.

END OF SECTION

PART 1 GENERAL

1.1 Preconstruction Meeting

.1 A preconstruction meeting will be arranged by the Contract Administrator after the acceptance of the Notice of Award.

.2 Meetings will be held at the Contract Administrator's office or at an alternate location at or near the Worksite.

.3 The Contractor shall have in attendance the Superintendent, the Contractor's Project Manager, and representatives of the Subcontractors if requested by the Contract Administrator.

.4 The agenda for the Preconstruction Meeting shall include, but is not limited to, the following:

a) Confirm the Superintendent, Contractor's Project Manager, and the Contract Administrator's Resident personnel on the Worksite.

b) Establish Worksite protocols for communication, reporting and inspection.

c) Clear up any ambiguities or questions of interpretation known at that time.

d) Contractor shall present a detailed Work Schedule.

e) Occupational Health and Safety relationships and responsibilities.

f) Review and discuss Contractor's site safety plan.

g) Discuss other responsibilities of the Owner, the Contractor, and the Contract Administrator.

1.2 Progress Meetings

.1 Progress meetings will be held on a regular bi-weekly basis or more frequently if requested by the Contract Administrator.

.2 Progress Meetings shall be held on site or other location as agreed upon. The Contractor shall make accommodation for progress meetings to be held in a trailer supplied by the Contractor and located at the site.

.3 The Contract Administrator will give to all parties advance notice of meeting dates, times and locations.

.4 The Contractor shall have in attendance the Superintendent, the Contractor's Project Manager and representatives of the Subcontractors if requested by the Contract Administrator.

.5 The Contract Administrator will have the Contract Administrator's Project Manager or the Resident Engineer, or both, in attendance.

.6 The Owner may have a representative in attendance.

.7 Occupational Health and Safety incidents, records and procedures shall be part of the agenda for every progress meeting.

.8 Minutes will be taken by the Contract Administrator and copies will be distributed to all attendees.

PART 2 MEASUREMENT AND PAYMENT

1.1 Measurement

.1 Project Meetings, as defined in this Specification, is considered incidental to the Work. No measurement will be made for this work.

1.2 Payment:

.1 Project Meetings is considered incidental to the Work. No payment will be made for this work.

END OF SECTION

PART 1 GENERAL

1.1 Construction Schedule

.1 Upon award of the Contract and prior to commencement of the Work, the Contractor shall submit for approval to the Contract Administrator a Construction Schedule in critical path method format showing all the principal phases of the Work. The project shall be broken down by Section of the project, with individual sections as defined elsewhere. No Progress Payment Claim shall be certified until an acceptable Construction Schedule has been received and approved by the Contract Administrator.

.2 The Construction Schedule, as stated above, will be held as a baseline. The Construction Schedule shall be updated monthly against actual progress of the Work by the Contractor. The updated Construction Schedules do not relieve the Contractor from the obligation of the Completion Date.

.3 If, in the opinion of the Contract Administrator, any Construction Schedule is inadequate as a control tool or if it does not show the Work being fully completed by the Contract Completion Date, the Contract Administrator may reject it and the Contractor shall provide a Construction Schedule and Work program that is acceptable to the Contract Administrator.

.4 As a minimum, the Construction Schedule shall clearly identify the start and completion dates of all, but not limited to, the following activities for each site:

a) Mobilization and Erection of Traffic Control

b) Excavation

c) Placement of all specified types of Granular Material

d) Concrete Curbing

e) Asphalt Paving

f) Streetlighting and Traffic Signals Works

g) Underground Works

h) Demobilization

PART 2 MEASUREMENT AND PAYMENT

1.1 Measurement

.1 Construction Schedule, as defined in this Specification, is considered incidental to the Work. No measurement will be made for this work.

1.2 Payment:

.1 Construction Schedule is considered incidental to the Work. No payment will be made for this work.

END OF SECTION

PART 1 GENERAL

1.1 Submittals

.1 Submittals are required in accordance with the provisions of this section, to determine whether the specified Material and Product are furnished and installed in accordance with design intent as expressed in the Contract Documents.

.2 Individual submittals as required are detailed in other sections of the Specifications.

.3 Until submissions are reviewed, Work involving relevant Product or Material may not proceed.

.4 Where the phrase "or approved alternative" occurs in the Contract Documents, do not assume that Material, Product, or methods will be accepted as equal by the Contract Administrator unless the item has been specifically accepted for the Work by the Contract Administrator in writing.

1.2 Identification of Submittals

.1 Identify each submittal and re-submittal by showing at least the following information:

a) Name, address and telephone number of the submitter, and a name of an individual for contact.

b) Drawing number and Specification number to which the submittal applies.

c) Whether an original submittal or re-submittal.

d) Confirmation of prior review by the Contractor.

e) Date of submittal or re-submittal.

f) Authorized signature of the Submitter.

1.3 Coordination of Submittals

.1 Prior to submittal for the Contract Administrator's review, coordinate all Material.

.2 Determine and verify field dimensions and conditions and conformance with Specifications, including Material, catalogue numbers, type numbers and similar data.

.3 Coordinate requirements between trades.

.4 Coordinate with requirements under laws and regulations.

.5 Secure required Approvals of public agencies, inspection agencies and standards agencies and show proof of Approvals acquisition.

.6 Indicate any deviations from the intent of design as expressed in the Contract Documents and request specific review of these deviations.

1.4 Timing of Submittals

.1 Make submittals far enough in advance to allow adequate time for coordination, review, revisions, and re-submittals, and for supply and delivery in time for the scheduled installation.

.2 Allow at least ten (10) business days for the Contract Administrator's review after receipt of submittals unless stated otherwise for specific materials.

.3 Costs due to delays in making submittals shall be borne solely by the Contractor.

PART 2 MEASUREMENT AND PAYMENT

2.1 Measurement

.1 Submittals, as defined in this Specification, is considered incidental to the Work. No measurement will be made for this work.

2.2 Payment

.1 Submittals is considered incidental to the Work. No payment will be made for this work.

END OF SECTION

PART 1 GENERAL

1.1 Requirements for Shop Drawings and Product Data

.1 The Contractor shall arrange for the preparation of clearly identified Shop Drawings and submit Shop Drawings in the following form:

a) One (1) electronic PDF copy to be reviewed by the Contract Administrator. The Contract Administrator shall review, mark-up, and submit back to the Contractor the same electronic copies as received.

.2 The Contractor shall provide clearly identified Product Data that shall include but not be limited to:

a) Product assembly Drawings

b) Materials list

c) Principal dimensions

d) Parts and components details

e) Letters of compliance with recognized standards where required

f) Operation data

g) Operation curves

h) Operation manuals where specified

i) Product Name and Model Number

.3 Shop Drawings shall be accurately drawn to a scale sufficiently large to show all pertinent features of the item, and its method of connection to the Work and shall have sufficient space for the Contractor's stamp and the Contract Administrator's Shop Drawing review stamp.

.4 Shop Drawings shall be in accordance with the International System of Units (S.I.) metric units.

.5 Prior to submission to the Contract Administrator the Contractor shall review all Shop Drawings. By this review, the Contractor has determined and verified all field measurements, field construction criteria, Materials, catalogue numbers and similar data or will do so, and has checked and coordinated each Shop Drawing with the requirements of the Work and of the Contract Documents. The Contractor's review of each Shop Drawing shall be indicated by stamp, with the date and signature of a responsible person.

.6 The Contractor shall submit Shop Drawings to the Contract Administrator for review with reasonable promptness and in orderly sequence so as to cause no delay in the Work or in the Work of Other Contractors. If either the Contractor or the Contract Administrator so requests, they shall jointly prepare a schedule fixing the dates for submission and return of Shop Drawings.

.7 At the time of submission, the Contractor shall notify the Contract Administrator in writing of any deviations in the Shop Drawings from the requirements of the Contract Documents.

.8 The Contract Administrator will review and return Shop Drawings in accordance with a schedule agreed upon or otherwise with reasonable promptness. The Contract Administrator's review shall be for conformity to the design concept and for general arrangement only and such review shall not relieve the Contractor of responsibility for errors or omissions in the Shop Drawings or of responsibility for meeting all requirements of the Contract Documents. A specific deviation on the Shop Drawings from the design concept requested by the Contractor may be approved or rejected in writing by the Contract Administrator.

.9 The Contractor shall make any changes in Shop Drawings which the Contract Administrator may require consistent with the Contract Documents and resubmit unless otherwise directed by the Contract Administrator. When resubmitting, the Contractor shall notify the Contract Administrator in writing of any revisions made by the Contractor other than those requested by the Contract Administrator, in the previous review.

.10 Any changes or rejection of shop drawings will be returned to the Contractor for resubmission through the same procedure indicated above and must be deemed acceptable by the Contract Administrator prior to fabrication and installation of the noted components. No extension of Contract Time will be allowed for delays in the Work which may be caused by resubmission of rejected Shop Drawings.

.11 Each reviewed Shop Drawing will be stamped by the Contract Administrator with the following form of stamp:

REVIEWED	( )
REVIEWED AS MODIFIED	( )
REVISE AND RESUBMIT	( )
NOT REVIEWED	( )

This review by the Contract Administrator is for the sole purpose of ascertaining conformance with the general design concept. This review shall not constitute approval of the detail design inherent in the Shop Drawings, responsibility for which shall remain with the Contractor submitting same. Review by the Contract Administrator shall not relieve the Contractor of the responsibility for errors or

omissions in the Shop Drawings or of the responsibility for meeting all requirements of the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the Worksite, for information that pertains solely to fabrication processes or to techniques of construction for installation, and for co-ordination of the Work of all sub-trades.

1.2 Design by the Contractor

.1 When the Contractor is responsible for engineering design of portions of the Work, this shall be clearly and specifically indicated in the Drawings or in the Specifications of the Contract Documents.

.2 Where the Contractor is required, either by law or regulation or by the Contract to provide engineering design, the Contractor shall use the services of a Professional Engineer registered in the Province of Ontario and shall submit Shop Drawings bearing the Seal and Signature of that Registered Professional Engineer.

PART 2 MEASUREMENT AND PAYMENT

1.1 Measurement

.1 Shop Drawings, as defined in this Specification, are considered incidental to the Work. No measurement will be made for this work.

1.2 Payment

.1 Shop Drawings are considered incidental to the Work. No payment will be made for this work.

END OF SECTION

PART 1 GENERAL

1.1 Construction Safety Measures

.1 All Contractors must possess a valid Certificate of Recognition (COR) or recognized equivalent for an accredited workplace safety and health program in accordance with the Occupational Health and Safety Act

.2 The Contractor shall be the Prime Contractor and shall serve as and have the duties of the Prime Contractor (Constructor) in accordance with the Occupational Health and Safety Act.

.3 The Contractor shall submit the following in advance of the preconstruction meeting:

.1 Notice of Project (Form 0175)

.2 Registration of Constructors and Employers Engaged in Construction (Form 1000)

.4 At the preconstruction meeting, provide the Consultant and Owner's representative with a copy of the Contractor's site-specific Health and Safety Plan and signed attestation.

.5 Observe construction safety measures of National Building Code 2020 Part 8 Safety Measures at Construction and Demolition Sites, Occupational Health & Safety Act, Workplace Safety and Insurance Board, and City of Kenora. In case of conflict or discrepancy, the more stringent requirements shall apply.

1.2 WHMIS

.1 Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage, and disposal of hazardous materials, and regarding labelling and provision of material safety data sheets acceptable to Labour Canada and Health and Welfare Canada.

.1 Deliver copies of WHMIS data sheets to Contract Administrator on delivery of Material.

PART 2 MEASUREMENT AND PAYMENT

1.1 Measurement

.1 Health and Safety Requirement, as defined in this Specification, is considered incidental to the Work. No measurement will be made for this work.

1.2 Payment:

.1 Health and Safety Requirement is considered incidental to the Work. No payment will be made for this work.

END OF SECTION

PART 1 ENVIRONMENTAL PROTECTION PLAN

1.1 General

1. The Contractor shall plan and implement the Work of this Contract strictly in accordance with the requirements of the Environmental Protection Plan as herein specified.

2. The Contractor shall implement all Environmental Mitigation Measures as described within this Specification.

3. The Contractor shall be responsible for obtaining and complying with all environmental permits, approvals, and authorizations required to carry out the Work and shall immediately notify the Contract Administrator of any spills, releases, or environmental incidents in accordance with applicable legislation.

4. The Contractor is advised that at least the following Acts, Regulations, By-laws, and federal/provincial guidance documents apply to the Work and are available for viewing at the office of the Contract Administrator.

    a) Federal

        i) Fisheries Act c. F-14

        ii) Transportation of Dangerous Goods Act and Regulations c.34

        iii) Migratory Birds Convention Act and Regulations c. 22

        iv) Species at Risk Act c. 29

        v) Fisheries and Oceans Measures to Protect Fish and Fish Habitat, available at https://www.dfo-mpo.gc.ca/pnw-ppe/measures-mesures-eng.html

        vi) The Department of Fisheries and Oceans Interim Code of practice: End-of-Pipe Fish Protection Screens for Small Water Intakes in Freshwater (2020) available at Interim code of practice: End-of-pipe fish protection screens for small water intakes in freshwater (dfo-mpo.gc.ca)

        vii) The Department of Fisheries and Oceans Interim Standard: In-water Site Isolation (2023) available at Interim standard: in-water site isolation (dfo-mpo.gc.ca)

        viii) And any other applicable Acts, Regulations and By-laws

    b) Provincial

        i) Environmental Protection Act, R.S.O., 19990, c.E.19

        ii) Ontario Water Resources Act, R.S.O., c. O.40

        iii) Environmental Assessment Act, R.S.O. 1990, C. E.18

iv) Endangered Species Act, 2007, S.O. 2007, c. 6

v) Fish and Wildlife Conservation Act, 1997, c. 41

vi) Drainage Act, R.S.O. 1990, c.P.43

vii) Public Lands Act, R.S.I. 1990, P.43

viii) O.Reg. 347 – General: Waste Management

ix) Clean Water Act, 2006, S.O., c.22

x) O.Reg. 406: On-Site and Excess Soil Management

c) Municipal

i) Applicable City of Kenora By-laws.

ii) And any other applicable Acts, Regulations, and By-Laws.

5.

1.2 Materials Handling and Storage

1. Construction materials shall not be deposited or stored on any part of the unnamed tributaries banks unless written acceptance from the Contract Administrator received in advance.

2. Construction materials and debris shall be prevented from entering the watercourses. In the event that materials and/or debris inadvertently enter the watercourses, the Contractor shall be required to remove the material and restore the watercourses to their original condition.

1.3 Fuel Handling and Storage

1. The Contractor shall obtain all necessary permits from The Ministry of Environment, Conservations and Parks for the handling and storage of fuel products and shall provide copies to the Contract Administrator.

2. All fuel handling and storage facilities shall comply with the applicable act and any local land use permits.

3. Fuels, lubricants, and other potentially hazardous materials as defined in Technical Standards and Safety Act, 2000, S.O. 2000, c.16 and Ontario Regulation 217/01 – Liquid Fuels and shall be stored and handled within approved storage areas.

4. The Contractor shall ensure that all fuel storage containers are inspected daily for leaks and spillage.

5. Products transferred from the fuel storage area(s) to specific Worksites shall not exceed the daily usage requirement.

6. When servicing requires the drainage or pumping of fuels, lubricating oils or other fluids from equipment, a groundsheet of suitable material (such as HDPE) and size shall be spread on the ground to catch the fluid in the event of a leak or spill.

7. Refuelling and/or servicing of mobile equipment and vehicles shall take place at least 100 m from the watercourses.

8. The area around storage sites and fuel lines shall be distinctly marked and kept clear of snow and debris to allow for routine inspection and leak detection.

9. The deposit of deleterious substances into water frequented by fish is prohibited under the Fisheries Act. The Contractor will take appropriate precautions to ensure that potentially deleterious substances (such as fuel, hydraulic fluids, oil, sediment, etc.) do not enter any watercourses.

10. A sufficient supply of materials, such as absorbent material and plastic oil booms, to clean up minor spills shall be stored nearby on site. The Contractor shall ensure that additional material can be made available on short notice.

1.4 Waste Handling and Disposal

1. The construction area shall be kept clean and orderly at all times during and at completion of construction.

2. At no time during construction shall personal or construction waste be permitted to accumulate for more than one day at any location on the construction site, other than at a dedicated storage area as approved by the Contract Administrator.

3. All resulting debris shall be deposited at a suitable Waste Disposal Ground operating under a valid operating permit or licence. Exceptions are liquid industrial and hazardous wastes which may require special disposal methods at an approved facility capable of accepting such wastes.

4. The Contractor will ensure sewage, septage and any other liquid wastes generated on Site are handled and disposed of by a certified disposal contractor.

5. Indiscriminate dumping, littering, or abandonment shall not take place.

6. No on-site burning of waste is permitted.

7. Waste storage areas shall not be located to block natural drainage.

8. Run-off from waste storage areas shall not be allowed to cause siltation of a watercourse.

9. Waste storage areas shall be left in a neat and finished appearance and/or restored to their original condition to the satisfaction of the Contract Administrator.

10. Equipment shall not be cleaned near watercourses; contaminated water from onshore cleaning operations shall not be permitted to enter watercourses.

1.5 Dangerous Goods/Hazardous Waste Handling and Disposal

1. Dangerous goods/hazardous wastes are identified by, and shall be handled according to The Dangerous Goods Transportation Act, R.S.O. 1990, c. D.1.

2. The Contractor shall be familiar with The Dangerous Goods Transportation Act, R.S.O. 1990, c. D.1.

3. The Contractor shall have on-site staff that are trained and certified in the handling of the dangerous/hazardous goods, when said dangerous/hazardous goods are being utilized on site for the performance of the Work.

4. Different waste streams shall not be mixed.

5. Disposal of dangerous goods/hazardous wastes shall be at approved hazardous waste facilities.

6. Liquid hydrocarbons shall not be stored or disposed of in earthen pits on site.

7. Used oils shall be stored in appropriate drums, or tankage until shipment to waste oil recycling centres, incinerators, or secure disposal facilities approved for such wastes.

8. Used oil filters shall be drained, placed in suitable storage containers, and buried or incinerated at approved hazardous waste treatment and disposal facilities.

9. Dangerous goods/hazardous waste storage areas shall be located at least 100 m away from the high-water line of any watercourse and be diked.

10. Dangerous goods/hazardous waste storage areas shall not be located to block natural drainage.

11. Run-off from a dangerous goods/hazardous waste storage area shall not be allowed to cause siltation of a watercourse.

12. Dangerous goods/hazardous waste storage areas shall be left in a neat and finished appearance and/or restored to their original condition to the satisfaction of the Contract Administrator.

1.6 Emergency Response

1. The Contractor shall ensure that due care and caution is taken to prevent spills.

2. The Contractor shall report all major spills of petroleum products or other hazardous substances with significant impact on the environment and threat to human health and safety (as defined in Table 1 below) to MECP immediately after occurrence of the environmental accident. The Contract Administrator shall also be notified.

3. The Contractor shall designate a qualified supervisor as the on-site emergency response co-ordinator for the project. The emergency response co-ordinator shall have the authority to redirect manpower in order to respond in the event of a spill.

4. The following actions shall be taken by the person in charge of the spilled material or the first person(s) arriving at the scene of a hazardous material accident or the on-site emergency response co-ordinator:

a) Notify emergency-response co-ordinator of the accident:

i) identify exact location and time of accident indicate injuries if any

b) Attend to public safety:

i) stop traffic, block/cordon off the immediate danger area

ii) eliminate ignition sources

iii) initiate evacuation procedures if necessary

c) Assess situation and gather information on the status of the situation, noting:

i) personnel on site

ii) cause and effect of spill

iii) estimated extent of damage

iv) amount and type of material involved

v) proximity to waterways, sewers, and manholes

d) If safe to do so, try to stop the dispersion or flow of spill material:

i) approach from upwind

ii) stop or reduce leak if safe to do so

iii) dike spill material with dry, inert sorbet material or dry clay soil or sand

iv) prevent spill material from entering waterways and utilities by diking

v) prevent spill material from entering manholes and other openings by covering with rubber spill mats or diking

e) Resume any effective action to contain, clean up, or stop the flow of the spilled product.

5. The emergency response co-ordinator shall ensure that all environmental accidents involving contaminants shall be documented and reported to MECP.

6. When dangerous goods are used on site, materials for containment and cleanup of spill material (e.g., absorbent materials, plastic oil booms, and oversized recovery drums) shall be available on site.

7. Minor spills of such substances that may be contained on land with no significant impact on the environment may be responded to with in-house resources without formal notification to MECP.

8. Emergency response, 9-1-1, shall be used if other means are not available.

1.7 Noise and Emissions

1. Residents near construction noise-generating activities will be proactively notified as required.

2. Allowable hours of work for this project are based on location of project. Work on Lakeview Drive is unrestricted Monday through Friday and 9:00 am to 7:00 pm for work on Weekends and/or Statutory Holidays or Civic Holidays throughout the duration of the project. For all other sections of work, allowable hours of work are 7:00am to 7:00 pm Monday through Friday and 9:00 am to 7:00 pm for work on Weekends and/or Statutory Holidays or Civil Holidays. Night work is allowed throughout the duration of the project but will require prior consent from the Contract Administrator. The Contractor shall limit construction activities to adhere to the City of Kenora Noise By-laws (if any).

   The Contractor is advised that possible noise level problems may limit their work activities on Sundays and/or Statutory Holidays or Civic Holidays and at night.

3. Project off-road construction equipment will comply with emission standards in the Canadian Off-Road Compression-Ignition Engine Emission Regulations.

4. Engines and exhaust systems will be properly maintained. Equipment will not be operated that shows excessive emissions of exhaust gases until corrective repairs or adjustments are made.

5. The concentration of sulphur in diesel fuel will not exceed 15 mg/kg to comply with Sulphur in Diesel Fuel Regulations.

6. Construction vehicle idling times will be reduced to the extent possible in order to reduce emissions, as a best management practice. Cold starts will be limited to the extent possible to reduce emissions.

7. Machinery and factory supplied noise-abatement equipment (e.g., mufflers) will be maintained in good working order.

1.8 Dust

1. All work shall be conducted in a manner that minimizes the raising of dust from construction.

2. Dust control practices implemented by the Contractor during construction shall include regular road cleaning and dampening of construction access roads and work areas with water or approved chemicals at an adequate frequency to prevent the creation of dust.

3. Only water or chemicals approved by the Contract Administrator shall be used for dust control. The use of waste petroleum or petroleum by-products is not permitted.

4. Dust suppressants shall not enter and contaminate waterways, including surface and groundwater. Do not allow the product to leave the roadway.

5. Products shall not be applied to areas of roads that are subject to flooding.

6. Products shall not be applied if precipitation is occurring or forecast to occur before the product sets or cures.

7. Over-application or application beyond the road shoulder shall be avoided.

8. The Contractor shall ensure that trucks which are used to haul excavated material and backfill material to and from the Worksite utilize tarpaulin covers during transport to prevent material from falling onto the street and creating dust.

9. Stockpiled soils shall be covered with tarpaulin covers to prevent the creation of dust.

1.9 Erosion and Sediment Control

1. Develop and submit to the Contract Administrator for review, a Sediment Control Plan to minimize sedimentation of any waterway during all phases of the work, undertaking or activity.

   a) Install effective erosion and sediment control measures (e.g., erosion control blankets, silt fencing) prior to beginning the work, undertaking or activity in order to stabilize all erodible and exposed areas.

   b) Monitor the waterways visually to observe signs of sedimentation during all phases of the work, undertaking or activity and take corrective action.

   c) All areas of the work site should be stabilized and contoured to the natural slopes adjacent to the site to ensure no long-term erosion problems on the slopes occur.

   d) Schedule work to avoid wet, windy, and rainy periods (and heed weather advisories) that may result in high flow volumes and/ or increased erosion and sedimentation.

   e) Operate machinery on land in stable dry areas.

   f) Revegetate the site to limit the potential for increased erosion and sedimentation of exposed soils.

.2 Develop and implement a response plan to avoid a spill of deleterious substances (see Part 1.6).

1.10 Vegetation

1. Vegetation shall not be disturbed without written permission of the Contract Administrator. The Contractor shall protect plants or trees which may be at risk of accidental damage. Such measures may include protective fencing or signage and shall be approved in advance by the Contract Administrator.

2. Trees damaged during construction activities shall be examined by bonded tree care professionals; viable trees damaged during construction activities shall be pruned according to good practise by bonded tree care professionals. Damaged trees which are not viable shall be replaced at the expense of the Contractor.

3. Trees identified to be at risk by the Contract Administrator are to be strapped with 25 x 100 x 2400 mm wood planks, or suitably protected as approved by the Contract Administrator.

4. Herbicides and pesticides shall not be used adjacent to any surface watercourses.

5. All landowners adjacent to the area of application of herbicides or pesticides shall be notified prior to the work.

6. Trees or shrubs shall not be felled into watercourses.

7. Areas where vegetation is removed during clearing, construction, and decommissioning activities, shall be revegetated as soon as possible in accordance with the landscaping plans forming part of the Contract, or as directed by the Contract Administrator.

1.11 Fish

1. A buffer of vegetation will be maintained when working along waterways, where possible.

2. The duration of work and amount of disturbance adjacent to the water body will be minimized.

3. Operate machinery from outside of the water body.

4. All stockpiled material should be stored above the high-water mark.

5. Maintenance of vehicles and machinery should be conducted in a dedicated area at least 100 m from any watercourse.

6. Obtain a live fish handling permit and capture, relocate and monitor for fish trapped within isolated, enclosed, or dewatered areas, if required.

7. Dewater gradually, if required, to reduce the potential for stranding fish.

8. Screen intake pipes, if required, using the DFO interim code of practice: end-of pipe fish protection screens for small water intakes in freshwater to prevent entrainment or impingement of fish.

9. In-water site isolations, if required, using the DFO interim standard: in-water site isolation to reduce risk of sediment transport to downstream habitat.

10. Any Letters of Advice or other guidance received from Fisheries and Oceans Canada shall be adhered to (pending review).

1.12 Wildlife

1. No clearing of trees, shrubs or vegetation is permitted between April 26 and August 14 of any year to protect nesting and breeding season for migratory birds and other wildlife.

2. When clearing of trees is required within this time period, a pre-construction sweep for nesting birds must be conducted by a Stantec wildlife biologist seven (7) days prior to the start of any tree clearing.

3. No one will disturb, move, or destroy migratory birds' nests.

4. If a nest is encountered, work will cease in the immediate area, the site will be cordoned off, and the Contract Administrator will be contacted for further direction.

5. In the event that species at risk are encountered during the project construction, all work will cease in the immediate area, the site will be cordoned off, and the Contract Administrator will be contacted.

6. Efforts should be made during construction to limit riparian vegetation removal along watercourses in the Project area.

7. Workers should be aware of the potential for reptile and amphibian species present in the Project footprint and apply best management practices relevant to accidental mortality during construction.

8. Riparian areas and disturbed natural vegetation should be re-vegetated and restored to the natural state using native species well-adapted to the growing conditions in the Project area.

1.13 Heritage Resources

1. The Contractor shall ensure all personnel are aware of heritage protection requirements and comply with this special provision. Restrict construction activities to approved limits and avoid identified heritage protection zones. Immediately implement the Chance Find Procedure when required. Cooperate fully with the Owner, Contract Administrator, licensed archaeologist, and regulatory authorities.

2. If suspected heritage resources are encountered during construction, including artifacts, archaeological features, or human remains, the Contractor shall:

   a) **Stop Work Immediately**
   Suspend all Work within a minimum **30 m radius** of the discovery.

   b) **Protect the Area**
   Secure the area to prevent disturbance, damage, or access.

   c) **Notify**
   Immediately notify the Contract Administrator.

   d) **Assessment**
   Do not resume Work until the area has been assessed by a **licensed consultant archaeologist** and written direction is provided by the Contract Administrator.

   e) **Human Remains**
   If human remains are discovered, the Contractor shall immediately notify the police and comply with the **Funeral, Burial and Cremation Services Act**, in addition to the Ontario Heritage Act.

3. Where Indigenous cultural heritage resources are identified or suspected, Work shall not resume until appropriate direction is provided by the Contract Administrator following consultation with regulatory authorities and, where required, Indigenous communities.

4. Failure to comply with this Special Provision may result in:

   a) Immediate suspension of Work;
   b) Regulatory enforcement under the Ontario Heritage Act; and
   c) All associated costs, delays, and remedial measures being the responsibility of the Contractor.

1.14 Construction Traffic

1. Workforce parking shall be limited to designated areas, or as otherwise may be directed by the Contract Administrator.

1.15 Access

1. The Contractor shall maintain access to the sites to the satisfaction of the Contract Administrator.

PART 2 MEASUREMENT AND PAYMENT

2.1 Measurement

1. Environmental Protection Plan, as defined in this Specification, is considered incidental to the Work. No measurement will be made for this work.

2.2 Payment

1. Environmental Protection Plan is considered incidental to the Work No payment will be made for this work.

END OF SECTION

PART 1 GENERAL

1.1 General

.1 The Laws and Regulations of the City of Kenora and the Province of Ontario shall govern, and the Contractor shall be responsible to follow and adhere to all required laws. It shall be the responsibility of the Contractor to obtain all applicable licenses required to complete the Work.

.2 In the event of a dispute resolution by arbitration, the arbitration shall be governed by the Ontario Arbitration Act.

.3 The Contractor shall ensure its own compliance along with that of its Subcontractors with the Occupational Health and Safety Act and Regulations thereunder.

.4 The attention of the Contractor is drawn to the requirements of the Builders' Lien Act and Regulations thereunder.

.5 All other relevant Ontario Acts and Regulations thereof shall apply, and the Contractor shall comply with the requirements thereof as though they had been specifically named in these Specifications.

1.2 Burning

.1 Burning will not be permitted.

1.3 Regulations, Standards and Codes

.1 Codes, Standards and Regulations are specified in other sections of the Specifications and the Work shall be done in accordance with those Codes, Standards and Regulations where applicable.

.2 A copy of all regulatory approval request letters, self-assessments, and required environmental mitigation best practices are included in the Appendix or will be provided to the Contractor once received. The Contractor shall be responsible to follow and adhere to these documents.

PART 2 MEASUREMENT AND PAYMENT

1.1 Measurement

.1 Regulatory Requirements, as defined in this Specification, is considered incidental to the Work. No measurement will be made for this work.

1.2 Payment

.1 Regulatory Requirements is considered incidental to the Work. No payment will be made for this work.

END OF SECTION

1. Abbreviations – Specifications, Methods, Standards

.1 General

AASHTO	American Association of State Highway and Transportation Officials
ACI	American Concrete Institute
AISC	American Institute of Steel Construction
AISI	American Iron and Steel Institute
ARCA	Alberta Roofing Contractors Association
ASCE	American Society of Civil Engineers
ASTM	American Society for Testing and Materials
AWPA	American Wood Preservers Associations
AWS	American Welding Society
BCLMA	B.C. Lumber Manufacturer's Association
CAN	National Standard of Canada
CCA	Canadian Construction Association
CISC	Canadian Institute of Steel Construction
CITC	Canadian Institute of Timber Construction
CPCI	Canadian Prestressed Concrete Institute
CRCA	Canadian Roofing Contractors Association
CSA	Canadian Standards Association
CWB	Canadian Welding Bureau
DFO	Fisheries and Oceans Canada
ISO	International Organization for Standardization
NBC	National Building Code
NLGA	National Lumber Grades Authority
OPSS	Ontario Provincial Standard Specification
OPSD	Ontario Provincial Standard Drawing
PCI	Prestressed Concrete Institute
PMBC	Plywood Manufacturer's Association
SJI	Steel Joist Institute
SSPC	Steel Structures Painting Council
TC	Transport Canada
WCB	Worker's Compensation Board

.2 Utilities

API	American Petroleum Institute
AWWA	American Water Works Association
CGA	Canadian Gas Association
CGSB	Canadian General Standards Board
CSPI	Corrugated Steel Pipe Institute
IAO	Insurer's Advisory Organization
RTAC	Roads and Transportation Association of Canada
ULC	Underwriters Laboratories of Canada
USA	United States of America Standards (ASA)

.3 Mechanical

AFBMA	Anti Friction Bearing Manufacturer's Association
AGMA	American Gear Manufacturer's Association
AMCA	Air Moving and Conditioning Association
ANSI	American National Standards Institute
ACR	Air Conditioning and Refrigeration Institute
ASHRAE	American Society of Heating Refrigerating and Air Conditioning Engineers
NFPA	National Fire Protection Association
SAE	Society of Automotive Engineers

.4 Electrical

AIEE	American Institute of Electrical Engineers
CEC	Canadian Electrical Code
EEMAC	Electrical and Electronic Manufacturers Association of Canada
IEC	International Electrotechnical Commission
IEEE	Institute of Electrical and Electronic Engineers
IES	Illuminating Engineers Society
IPCEA	Insulated Power Cable Engineer's Association
LEMA	Lighting Equipment Manufacturer's Association
NEC	National Electrical Code
NEMA	National Electrical Manufacturers Association
NESC	National Electrical Safety Code

.5 Use of Abbreviations

These abbreviations refer to Specifications, Methods and Standards issued by the respective Association, and the abbreviations are used in the specifications.

Alphanumeric designations following the abbreviations denote the specification, method, or standard.

2. Abbreviations – Metric

.1 General

The specifications are metric and metric usage is based upon SI units in accordance with CSA Standard CAN/CSA-Z234.1 Canadian Metric Practice Guide. In this specification, SI units are abbreviated in accordance with the Metric Units and Abbreviations below.

.2 Linear Measure

Metre	m
Millimetre	mm
Kilometre	km
micrometre	micro-m

.3 Area

Square metre	m^2
Square millimetre	mm^2
Hectare	ha

.4 Volume

Cubic metre	m^3
Litre	L

.5 Mass and Density

Kilogram	kg
Gram	g
Tonne	t
Kilogram per metre	kg/m
Gram per metre	g/m
Kilogram per square metre	kg/m^2
Gram per square metre	g/m^2
Kilogram per cubic metre	kg/m^3

.6 Temperature

Degree Celcius	°C

.7 Force, Pressure, Stress

Newton	N
Kilonewton	kN
Pascal	Pa
Kilopascal	kPa
Megapascal	MPa

.8 Velocity, Rate of Flow

Metre per second	m/s
Metre per hour	m/h
Kilometre per hour	km/h
Litre per second	L/s
Cubic metre per second	m^3/s

.9 Power, Energy, Heat, Work

Watt	W
Kilowatt	kW
Kilowatt hour	kWh
Joule	J

.10 Electricity

Ampere	A
Volt	V

END OF SECTION

PART 1 GENERAL

1.1 General

.1 The Contractor is totally responsible for the quality of Material and Product which the Contractor provides and for the Work.

.2 The Contractor is responsible for quality control and shall perform such inspections and tests as are necessary to ensure that the Work conforms to the requirements of the Contract Documents.

.3 During the progress of the Work, a sufficient number of tests shall be performed by the Contractor to determine that Material, Product, and installation meet the specified requirements.

.4 Minimum requirements regarding quality control are specified in various sections of the Specifications; however, the Contractor shall perform as many inspections and tests as are necessary to ensure that the Work conforms to the requirements of the Contract Documents.

.5 Testing shall be in accordance with pertinent codes and regulations, and with selected ASTM and CSA standards.

.6 Product testing, mill tests and laboratory reports to demonstrate that Product and Material supplied by the Contractor meet the Specifications are specified under various sections of the Contract Documents.

PART 2 QUALITY CONTROL

2.1 Quality Control Testing by the Contractor

.1 The Contractor shall retain the services of an independent testing agency under supervision of a registered Professional Engineer, and pay the cost of testing services for quality control including, but not limited to, the following:

a) Any Product testing that is required and is specified under various sections of the Specifications.

.2 The Contractor shall promptly process and distribute all required copies of test reports and test information and related instructions to all of their Subcontractors and suppliers to ensure that all necessary retesting and replacement of construction can proceed without delay.

.3 The Contractor shall promptly provide the Contract Administrator with copies of all test results.

2.2 Quality Assurance Testing

.1 The Contractor Administrator may retain and pay for the services of an independent testing agency for testing for quality assurance, for the Owner's purposes.

.2 The Contract Administrator may inspect and test Material, Product, and the Work for conformance with the requirements of the Contract Documents; however, they do not undertake to check the quality of the Work on behalf of the Contractor nor to provide quality control.

.3 Inspections and tests by the Contract Administrator do not relieve the Contractor of their responsibility to supply Material and Product and to perform the Work in accordance with the requirements of the Contract Documents.

.4 The Contract Administrator, at their discretion, may order or perform any additional inspections and tests.

.5 The Contractor shall coordinate with the Contract Administrator the scheduling of testing and inspection by the Contract Administrator, to enable testing to be done as necessary, without delay, and the Contractor shall notify the Contract Administrator sufficiently in advance of operations to allow for such inspection and tests by the Contract Administrator's or the Owner's testing agency.

.6 The Contractor shall supply samples to the Contract Administrator or their Inspector for testing purposes as required. There will be no charge to the Owner for samples taken.

2.3 Code Compliance Testing

.1 Inspections and tests required by codes or ordinances, or by a plan approval authority, shall be the responsibility of and shall be paid for by the Contractor.

.2 Copies of reports resulting from such inspections shall be submitted in a timely manner by the Contractor to the Contract Administrator.

2.4 Retesting

.1 When tests on Product, Material, or completed portions of the Work carried out by the Contractor or the Contractor's testing agency or by the Contract Administrator's testing agency yield results not meeting the requirements of the Contract Documents, the Contractor, in addition to carrying out remedial work or replacement of the Product or Material shall cover all costs for retesting of the remedied Work and the replacement Product and Material. Retesting, including retesting by the Owner's testing agency, shall be at the Contractor's expense.

.2 In every case where the Contractor has submitted test results which fail to meet the requirements of the Contract Documents, the Contractor shall submit within a

practical and reasonable time results of a retest showing that the results are in accordance with the requirements of the Contract Documents.

.3 If the Contractor fails or refuses to do remedial work or replace unacceptable Material or Product, the Contract Administrator may refuse to certify payment and the Owner may refuse to make payment, in addition to any other remedies the Owner may have.

PART 3 MEASUREMENT AND PAYMENT

1.1 Measurement

.1 Quality Control, as defined in this Specification, is considered incidental to the Work. No measurement will be made for this work.

1.2 Payment

.1 Quality Control is considered incidental to the Work. No payment will be made for this work.

END OF SECTION

PART 1 GENERAL

1.1 Existing Utilities and Structures

.1 The Contractor shall be responsible for locating and protecting existing utilities and structures; and for the repair of any damage which may occur during construction.

.2 Existing utilities and structures may be shown on the Drawings or described in the Specifications. Such information is shown for design purposes and the existence, location, and detail given is information that is obtained during the design period and is not necessarily complete, correct, or current.

.3 The Contractor shall pay all costs and be responsible for establishing locations and state of use of all existing utilities that may affect the Work. The Contractor shall make satisfactory arrangements with the utilities companies involved for the location, protection, and inspection of existing utilities.

.4 Notice in writing shall be given by the Contractor to the utilities companies at least 48 hours before Work commences in the vicinity of existing utilities.

.5 The Contractor shall pay all the costs involved in protection of utilities, inspection of utilities, and all costs due to delays because of existing utilities and structures.

1.2 Temporary Controls

.1 Noise Controls:

a) Perform the Work in conformity with all municipal by-laws with respect to noise, hours of work, night work, and holiday work. Night work or holiday work requires the written permission of the Contract Administrator.

.2 Dust Control:

a) Perform the Work in a manner that will not produce an objectionable amount of dust. Dust control measures shall be paid for by the Contractor.

.3 Pollution Control:

a) Perform the Work in conformance with the applicable sections of the Provincial Regulations with respect to air and water pollution control requirements.

.4 Disposal of Wastes:

a) Burying of rubbish and waste on the Worksite is not permitted.

b) Disposal of waste or volatile materials into waterways, storm or sanitary sewers is not permitted.

c) Pumping or draining water containing silt in suspension into waterways, sewers, or drainage systems is prohibited.

d) Abide by requirements of Statute, Bylaw, and Regulations respecting disposal of wastes.

e) Obtain required Permits for waste disposal.

1.3 Work Adjacent to Waterways

.6 Do not operate construction equipment in waterways, nor remove borrow material nor dump fill material into waterways, except as approved and permitted by the appropriate authorities. The regulatory approvals must be strictly followed when working adjacent to the waterway.

PART 2 MEASUREMENT AND PAYMENT

2.1 Measurement

.1 Construction Facilities, as defined in this Specification, is considered incidental to the Work. No measurement will be made for this work.

2.2 Payment

.1 Construction Facilities is considered incidental to the Work. No payment will be made for this work.

END OF SECTION

PART 1 GENERAL

1.1 Reference Standards

.1 Ontario Traffic Manual, Book 7: Temporary Conditions

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 to carry out Work or haul materials or equipment.

.2 When working on travelled way:

.1 Place equipment in position to minimize interference and hazard to travelling public.

.2 Keep equipment units as close together as working conditions permit and preferably on same side of travelled way.

.3 Do not leave equipment on travelled way overnight.

.3 Close lanes of road only after receipt of written approval from Contract Administrator.

.1 Before re-routing traffic erect suitable signs and devices to Ontario Traffic Manual, Book 7: Temporary Conditions.

.4 Keep travelled way graded, free from pot holes and of sufficient width for required number of lanes of traffic.

.1 Provide 7 m wide minimum temporary roadway for traffic in two-way sections through Work and on detours.

.2 Provide 4.5 m wide minimum temporary roadway for traffic in one-way sections through Work and on detours.

.5 Provide and maintain road access and egress to property fronting along Work under Contract and in other areas as indicated, except where other means of road access exist that meet approval of the Consultant.

1.3 Informational and Warning Devices

.1 Provide and maintain signs, and other devices required to indicate construction activities or other temporary and unusual conditions resulting from Project Work which requires road user response.

.2 Supply and erect signs, delineators, barricades and miscellaneous warning devices to Ontario Traffic Manual, Book 7: Temporary Conditions

.3 Place signs and other devices in locations recommended in Ontario Traffic Manual, Book 7: Temporary Conditions.

.4 Meet with the Consultant prior to commencement of Work to prepare list of signs and other devices required for project. If situation on site changes, revise list to approval of the Consultant.

.5 Continually maintain traffic control devices in use:

.1 Check signs daily for legibility, damage, suitability and location. Clean, repair or replace to ensure clarity and reflectance.

.2 Remove or cover signs which do not apply to conditions existing from day to day.

1.4 Control of Public Traffic

.1 Provide competent flag personnel, trained in accordance with, and properly equipped Ontario Traffic Manual, Book 7: Temporary Conditions for situations as follows:

.1 When public traffic is required to pass working vehicles or equipment that block all or part of travelled roadway.

.2 When it is necessary to institute one-way traffic system through construction area or other blockage where traffic volumes are heavy, approach speeds are high and traffic signal system is not in use.

.3 When workmen or equipment are employed on travelled way over brow of hills, around sharp curves or at other locations where oncoming traffic would not otherwise have adequate warning.

.4 Where temporary protection is required while other traffic control devices are being erected or taken down.

.5 For emergency protection when other traffic control devices are not readily available.

.6 In situations where complete protection for workers, working equipment and public traffic is not provided by other traffic control devices.

.7 At each end of restricted sections where pilot cars are required.

.8 Delays to public traffic due to contractor's operators:[5] minutes maximum.

.2 Where roadway, carrying two-way traffic, is restricted to one lane, for 24 hours each day, provide portable traffic signal system.

.1 Adjust, as necessary, and regularly maintain system during period of restriction.

.2 Ensure signal system meets requirements of Ontario Traffic Manual, Book 7: Temporary Conditions.

1.5 Operational Requirements

.1 The Contractor shall be aware of the following minimum conditions for traffic throughout the contract:

.1 Section A: Lakeview Drive Reconstruction from - From the Winnipeg River West Branch to the Winnipeg River East Branch

.1 Two-way traffic shall be maintained at all times between the hours of 7am-7pm for the entirety of the contract

.2 Directional lane closures exceeding 5 minutes in a given 60-minute period will not be accepted within the hours of 7pm-7am and shall be limited to the hours of 7pm-7am.

.3 The Contractor must have two operating lanes of traffic open by 7:00 am each and every day.

.4 Traffic will be allowed to operate on graded and compacted granular surfaces. The surface shall be reasonable smooth and free of windrows such that a small passenger vehicle can navigate the site without needing to unnecessarily slow its speed down below 40 km/hr.

.5 The Contractor shall manage two-way traffic in a single lane during construction through the use of flaggers at each end of the work area and for any intersecting approaches within the specific work area each day.

.6 The Controls Traffic Control Plan shall include measures to stop traffic and allow unimpeded emergency vehicles through the work area. These plans shall be communicated with the Lake of the Woods District Hospital prior to starting construction.

.7 The work area to be closed off each day will be based on the amount of work the Contractor expects to complete in a day while allowing a reasonable amount of additional room for staging vehicles, materials, and equipment.

.8 A single vehicle access to the Super 8/Casey's Bar and Grill must be maintained at all times.

.9 Access to Nethercutt Drive must be maintained at all times and any work that may reduce the access should be communicated to the Hospital one week prior to starting.

.2 Section B: Lakeview Drive - Parsons Street Intersection

.1 Two-way traffic shall be maintained at all times between the hours of 7am-7pm for the entirety of the contract

.2 Directional lane closures exceeding 5 minutes in a given 60-minute period will not be accepted within the hours of 7pm-7am and shall be limited to the hours of 7pm-7am.

.3 The Contractor must have two operating lanes of traffic open by 7:00 am each and every day.

.4 Traffic will be allowed to operate on graded and compacted granular surfaces. The surface shall be reasonable smooth and free of windrows such that a small passenger vehicle can navigate the site without needing to unnecessarily slow its speed down below 40 km/hr.

.5 Access to Parsons St & Minnesota Street must be maintained at all times.

.3 Section C: Railway Street Reconstruction Phase 4 - From 1629 Railway Street to 1736 Railway Street

.1 Contractor to maintain access to private residences the duration of construction with the following exceptions:

.1 Concrete curbing operations, (two days prior and five days following), or

.2 Asphalt paving operations (on paving days)

.2 Posted Detour

.1 The Contractor will be responsible to post and maintain a detour around the project limits that follow Airport Road, 9th Street N, and then cross the CPKC Rail Tracks at 6th Street N.

.2 The detour shall be posted in such a way that long trucks are directed out to the bypass and not to use the CPKC Rail Crossing.

.3 The detour shall be posted in accordance with the Ontario Traffic Manual, Book 7: Temporary Conditions.

.4 Section D: Fourth Street South Reconstruction - From Fifth Street South to 100m South

.1 Contractor to provide 7 calendar day notice to fronting residents of road closure on Fourth Street.

.5 Section E: Backlane Reconstruction - Between First Street South and Second Street South from Seventh Avenue South to Eighth Avenue South

.1 Contractor to provide 7 calendar day notice to fronting residents of road closure for the Backlane.

.6 Section F: Sixth Street South - From Fourth Avenue South to Seventh Avenue South

.1 Contractor to provide 7 calendar day notice to fronting residents of road closure on Sixth Street.

.7 Section G: Sixth Avenue South - From Fifth Street South to Sixth Street South

.1 Contractor to provide 7 calendar day notice to fronting residents of road closure on Sixth Avenue.

.8 Section H: CPKC Rail Sidewalk Crossing at Railway Street

.1 Contractor shall work with CPKC Flaggers and not impede normal traffic queuing in proximity to the work area when a train is passing.

1.6 Notification Requirements to the City of Kenora are as follows:

.1 Ten (10) business days notice before mobilizing to site,

.2 Three (3) business days notice for changes to traffic control plans, sidewalk closures to be included.

1.7 Notification Requirements to Affected Residents are as follows:

.1 Seven (7) days written notice to lots fronting, backing, or immediately adjacent to work site.

.2 Three (3) days written notice prior to loss of driveway access due to concrete works.

.3 Written notice to include (at a minimum):

.1 Approximate construction dates

.2 Contractor's contact information: name, address, phone number, and 24-hour emergency number,

.3 Contractor's contact for reporting damage to personal property, alternative parking arrangements, access, garbage disposal,

.4 Summary of potential hazards associated with project works.

1.8 Notification Requirements to Utilities

.1 Schedule service interruptions or safety watches with utility companies and he Owner. Provide notification to the Consultant a minimum of two (2) Working Days prior to service interruption or safety watch. Provide 48-hour written notice to residents prior to service interruptions. Service interruptions with City of Kenora watermain are to be in accordance with Ontario Provincial Standard Specifications, except where noted otherwise in the drawings or project specifications.

PART 2 PRODUCTS

2.1 Not Used

.1 Not Used.

PART 3 EXECUTION

3.1 Not Used

.1 Not Used.

PART 1 GENERAL

1.1 Description

.1 The work of this item shall include the completion and implementation of a Water Management Plan.

.2 The Contractor must submit the Water Management Plan to the Contract Administrator for approval prior to the planned start of construction. Construction activities may not commence until the Water Management Plan has been approved by the Contract Administrator.

PART 2 WATER MANAGEMENT PLAN

2.1 Objectives

.1 The Water Management Plan shall achieve the following objectives: protection of Work against surface runoff, snow melts, and rainwaters.

2.2 Methods

.1 The Contractor is responsible for all water management tasks during the period of construction.

.2 The following water management tasks may be required and shall be included in the Water Management Plan:

.1 Unless otherwise specified elsewhere in this Contract, all drainage, pumping and other measures to control surface water are the Contractor's responsibility and are included in the Contract Price.

.2 If groundwater is encountered, the management and control of groundwater dewatering to achieve workable site conditions. This cost of this work will be borne by the Contractor and will be considered included in the Contract Price.

.3 Excavation drainage including keeping excavation and graded areas free of surface and seepage waters.

.4 Surface drainage including use of temporary drainage ditches and dikes and installation of temporary culverts and sump pumps with discharge lines as required to protect the Work from any source of surface water.

.5 Adequate grading and/or the provision of ditches or swales to provide positive controlled drainage of cut and fill areas.

.6 Spot pumping of localized areas of ponding water to ensure minimal saturation of grade and/or subgrade.

.7 Provision and removal of siltation/water quality control systems.

.8 There will be no additional payment for any such water management works unless specific items are listed in the Bid Form.

2.3 Alterations

.1 Any alterations to the Water Management Plan will be approved by the Contract Administrator prior to changes being implemented.

PART 3 MEASUREMENT AND PAYMENT

3.1 Measurement

.1 Water Management Plan, as defined in this Specification, is considered incidental to the Work. No measurement will be made for this work.

3.2 Payment

.1 Water Management Plan is considered incidental to the Work. No payment will be made for this work.

END OF SECTION

PART 1 GENERAL

1.1 Quality

.1 Material and Product supplied and installed shall be new.

.2 Material and Product supplied shall conform to these Specifications and to specified standards.

.3 Workmanship shall be the best quality, executed by personnel experienced, and skilled in their respective trades.

.4 Ensure full cooperation among all trades and coordination of the Work with continuous supervision.

.5 Use Product for which replacement parts and service are readily available.

.6 Use Product of one Manufacturer for Product of the same type or classification. Do not mix different Manufacturer's Product in the Work or in parts of the Work.

1.2 Manufacturer's Instructions

.1 Unless otherwise specified, comply with the Manufacturer's/Supplier's instructions for Material or Product and installation methods.

.2 Notify the Contract Administrator in writing of any conflict between these Specifications and the instructions of the Manufacturer/Supplier.

1.3 Fastenings

.1 Provide metal fastenings and accessories in the same texture, colour, and finish as the base metal in which they occur. Prevent electrolytic action between dissimilar metals. Use non-corrosive fasteners, anchors, and spacers for securing exterior Work, or Work that may be located in a corrosive atmosphere.

.2 Space anchors within limits of load bearing or shear capacity and ensure that they provide positive permanent anchorage.

.3 Space fastening evenly and lay out neatly.

1.4 Delivery and Storage

.1 Deliver, store, and maintain packaged Material and Product with Manufacturer's seals and labels intact.

.2 Prevent damage and soiling of Material and Product.

.3 Store Material and Product in accordance with instructions of the Manufacturer/Supplier.

.4 Provide suitable areas or buildings where storage is weatherproof if dry areas are recommended by the Manufacturer/Supplier.

.5 Product shall have name plates displaying Product data and serial numbers.

.6 Comply with Workplace Hazardous Materials Information Systems requirements.

PART 2 MEASUREMENT AND PAYMENT

2.1 Measurement

.1 Common Product Requirements, as defined in this Specification, are considered incidental to the Work. No measurement will be made for this work.

2.2 Payment

.1 Common Product Requirements are considered incidental to the Work. No payment will be made for this work.

END OF SECTION

PART 1 GENERAL

1.1 General

.1 The Contract Administrator will provide reference points for construction according to the provisions of CCDC 18 General Condition 3.7 limited as follows:

a) The Contract Administrator shall provide the Contractor with revised up to date Northings, Eastings, and elevations of the temporary benchmarks noted on the drawings. These shall be located close to the project site and installed or verified close to the construction period. The Contractor shall not proceed with the Work until the Contract Administrator has notified the Contractor that the temporary benchmark may be used for layout purposes.

b) The Contractor shall be responsible for the true and proper survey and layout of the Work and for the correctness of the location, levels, dimensions, and alignment of all aspects of the Work. The Contractor shall provide all required instruments and competent personnel for performing all layouts.

c) Should any error appear or arise in location, levels, dimensions, and/or alignments during the course of the Work, the Contractor shall promptly rectify such errors to the satisfaction of the Contract Administrator at their own expense.

d) The Contract Administrator shall be notified at least two (2) Working Days prior to any Work being commenced in order to have the option to check and review all elevations and layouts at the Contract Administrator's discretion.

e) The Contractor shall carefully protect and preserve all benchmarks, stakes, and other items used in giving the basic data. Any such benchmarks or stakes removed or destroyed by the Contractor, without consent of the Contract Administrator, shall be replaced by the Contract Administrator at the expense of the Contractor at a cost of $250 per hour, in addition to other expenses and mileage to and from the Worksite from Winnipeg.

f) The Contractor shall provide the Contract Administrator quantity measurements and any other survey data as requested by the Contract Administrator for applications of progress payments.

g) The Contract Administrator shall be afforded full access for the verification of survey at the site.

2.1 Survey Assistance

.1 The Contractor shall supply acceptable survey assistants to the Contract Administrator to assist in measuring, surveying, driving stakes and such other Work as required to confirm layouts and elevations.

.2 Survey assistants shall not be changed without the approval of the Contract Administrator.

.3 If the Contractor fails to provide survey assistants that are acceptable to the Contract Administrator, the Contract Administrator will obtain assistants and deduct the cost and expenses thereof from the Progress Payment Certificates.

PART 2 MEASUREMENT AND PAYMENT

2.1 Measurement

.1 Field Engineering, as defined in this Specification, is considered incidental to the Work. No measurement will be made for this work.

2.2 Payment

.1 Field Engineering is considered incidental to the Work. No payment will be made for this work.

END OF SECTION

PART 1 GENERAL

1.1 Cleanup

.1 Maintain the working area in a clean and orderly manner as the Work progresses, and upon completion of construction, remove all waste materials, and all temporary facilities from the Worksite.

.2 Haul surplus or salvage Materials that are the property of the Owner to the Owner's storage site.

.3 Remove surplus or salvaged Materials belonging to the Contractor from the Worksite.

.4 Clean haul routes and restore haul roads to their pre-construction condition.

.5 Broom clean paved surfaces; rake clean other surfaces of ground.

1.2 Record Documents

.1 As specified in other sections of the Specifications, the Contractor will be required to prepare Record Drawings and red-line markups, to provide survey notes, to supply test results and/or other documents. Such information shall be turned over to the Contract Administrator before the Total Performance Certificate is issued and before the Final Progress Estimate is completed.

.2 Record documents shall be neat, legible, and accurate.

PART 2 MEASUREMENT AND PAYMENT

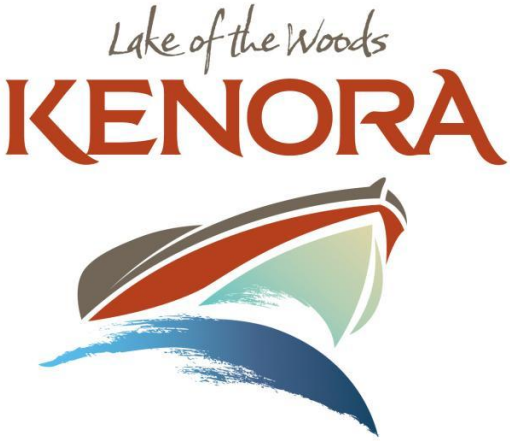
2.1 Measurement

.1 Close-Out Procedures, as defined in this Specification, is considered incidental to the Work. No measurement will be made for this work.

2.2 Payment

.1 Close-Out Procedures is considered incidental to the Work. No payment will be made for this work.

END OF SECTION



APPENDIX H
SPECIAL PROVISIONS

CITY OF KENORA

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1 Section 1 Civil Works

1.1 Earth Excavation, Grading

Earth Excavation, Grading shall follow the requirements of OPSS.MUNI 206.

Section 206.07.03.05 – Management of Excavated Materials is amended with the addition of the following:

General

Excavation under this Contract will generate excess soil. Management, reuse, and disposal of excess soil shall be carried out in accordance with Ontario Regulation 406/19 – On-Site and Excess Soil Management and the requirements outlined in the attached Excess Soil Characterization Reports, as follows:

- Excess Soil Characterization Report, Highway 17 Reconstruction, Kenora, Ontario, Dated June 27, 2025, and
- Limited Soil Characterization Report – 2026 Municipal Paving Program, Kenora, Ontario, February 20, 2026

Reuse Restrictions

Excess soil generated from the Work shall not be reused on this Project or any other site, including Lakeview Drive, unless all of the following conditions are met:

1. The requirements and recommendations of the ESCR are fully complied with;
2. The soil is demonstrated, through remediation and confirmation sampling where required, to meet applicable Excess Soil Quality Standards under O. Reg. 406/19 for the intended reuse site;
3. The reuse site has been assessed and approved by a Qualified Person, and written acceptance of the material has been obtained from the reuse site owner; and
4. All documentation required under O. Reg. 406/19 is completed and provided to the Contract Administrator.

In the absence of meeting all of the above conditions, reuse of excess soil is prohibited.

Handling of Impacted Soil

If soils exhibiting staining, odour, sheen, or other evidence of contamination are encountered during excavation, the Contractor shall:

- Immediately segregate the affected material;
- Notify the Contract Administrator; and
- Manage the material in accordance with the direction of a Qualified Person.

Such material shall not be reused unless compliance with the above-noted reuse restrictions is demonstrated.

Disposal Requirements

Where excess soil does not meet the requirements for reuse as outlined above, or where reuse approval has not been obtained, the Contractor shall:

- Transport and dispose of all excess soil at a licensed landfill or waste disposal facility authorized to accept the material, in accordance with applicable regulations; and
- Include all costs associated with handling, hauling, testing, and disposal of excess soil in the Contract Price.

No additional payment will be made for disposal of excess soil.

1.2 Rock Excavation Grading

Rock Excavation, Grading shall be in accordance with the most recent version of OPSS.MUNI 206.

GENERAL

Rock excavation quantities shown in the Contract Documents are estimates only. Payment for rock excavation shall be based on actual measured volumes excavated on site, as determined by the Contract Administrator.

A Rock Material Management Plan (RMMP) will not be required under this Contract.

The Contractor shall familiarize themselves with the Geotechnical Investigation Report for Asphalt Resurfacing and Paving Upgrades (Document No. 24-1403-2050-002/Rev. A), Dated May 2025 as it relates to subsurface information.

CONSTRUCTION

Excavated rock material may be reused on site, subject to approval by the Contract Administrator, for:

- Backfilling boulevard areas, and

- Construction of subgrade, where suitable.

Rock material not suitable for reuse shall be removed from the site and disposed of in accordance with applicable regulations.

MEASUREMENT FOR PAYMENT

Measurement for payment shall be based on the actual volume of rock excavated, measured in cubic metres (m^3), as verified by the Contract Administrator.

BASIS OF PAYMENT

Payment at the Contract price for Rock Excavation, Grading shall include full compensation for: Excavation of rock; Handling, breaking, loading, hauling, reuse, or disposal; Placement and grading where reused; and All labour, equipment, and incidentals necessary to complete the Work.

1.3 Hot Mix Asphalt

Hot Mix Asphalt shall be in accordance with the most recent version of OPSS.MUNI 310 and OPSS.MUNI 1150.

The mix to be used for Hot Mix Asphalt HL3, HL 4, and HL8 paving shall be provided by a CCIL hot mix design approved laboratory for the asphalt concrete mix design based on the above Specifications.

HOT MIX ASPHALT TYPE

Asphalt cement shall conform to OPSS.MUNI 1101. The asphalt cement shall be PG 58-34. The percentage by weight of asphalt cement contained in the pavement mixture of HL3, HL4, and HL8 shall be between 4.5 and 5.5%.

CONSTRUCTION

The type of Hot Mix Asphalt to be used shall be as shown in these Specifications and in the Contract Drawings.

Section 310.07 of OPSS.MUNI 310 is amended by the addition of the following:

General

The Contractor shall notify the CA of paving operations 24 hours prior to work.

Miscellaneous hot mix asphalt shall be installed by hand or machine methods at the locations and depths as identified in the Contract drawings.

The Contractor shall take additional measures to ensure that hand placed asphalt is finished to a high standard, free from surface imperfections and segregation. The Contractor shall provide additional equipment, labour and workmanship effort as required to ensure the hot mix material is placed, compacted and finished adequately.

Saw Cutting

All asphalt cuts for excavation and removal limits, trenching, and installation of curb and/or walkways shall be performed by saw cutting prior to removal of asphalt.

If a uniform edge of trench is not obtained, the Contractor shall re-cut the asphalt prior to final paving.

The Contractor shall provide saw cutting at all locations where the new work matches the existing pavement.

Sawcut to a width that avoids the need for hand-tamping of asphalt pavement, so the minimum pavement width allows for a plate packer to achieve compaction.

Subsection 310.07.01 Quality Control of OPSS.MUNI 310, November 2017, is amended with the addition of the following:

The Contractor’s paving superintendent shall continuously monitor the paving distribution to ensure the appropriate depth of asphalt is maintained throughout the paving operation. The Contractor shall document, certify and sign the distribution checks and provide the documentation to the Contract Administrator on a daily basis.

The Contractor is responsible for all quality control testing of materials to ensure conformance with the Contract documents. Upon request, the Contractor shall provide to the CA with test results meeting applicable OPSS specifications.

Should any of the samples fail to meet the specifications, the Contractor shall remove the pavement and replace it with asphalt pavement as specified. The Contractor shall patch the holes where samples have been taken at his own expense.

SAMPLING FREQUENCY

Samples shall be taken on a daily basis.

FINISH

The finished asphalt surface shall be free from segregation. The Contractor shall monitor their operations, should segregation be identified during paving operations by either the Contract Administrator during paving operations. Paving shall be halted temporarily and the Contractor shall identify remedial measures and adjust their operations to improve on the finish of the asphalt.

BASE PREPARATION

Subsection 310.07.02 Preparation of Foundation and Existing Pavement is amended by the addition of the following:

> The Contractor is responsible for all grading work and base preparation prior to placement of asphalt paving, grades shall be constructed to the elevations specified within the Contract Drawings. If elevations are not provided, the Contractor shall ensure the intent of the work using smooth transitions and lines. The Contractor shall ensure positive drainage and smooth transitions when matching existing features.
>
> The Contractor shall do all cleaning, tack coating, patching of holes, and padding of depressions and irregularities, and other preparatory work necessary to produce a uniform surface in the finished work.

MEASUREMENT FOR PAYMENT

Hot Mix Asphalt HL3, HL4, and HL8 shall be measured by area in accordance with Subsection 310.09.01.01.02 of OPSS.MUNI 310.

Subsection 310.09.01.02 Tack Coat of OPSS.MUNI 310 is deleted in its entirety. Tack Coat shall be considered incidental to the Hot Mix Asphalt.

BASIS OF PAYMENT

Subsection 310.10.03 Tack Coat of OPSS.MUNI 310 is deleted in its entirety. Tack Coat shall be considered incidental to the Hot Mix Asphalt.

PAYMENT ADJUSTMENT FOR LIFT THICKNESS

A payment adjustment for lift thickness may apply where the Owner completes QA HMA Thickness Cores at their own discretion. For the purpose of the payment adjustment, a lot is designated as any amount of paving completed in a single work shift.

The formula provided in OPSS.PROV 313 (April 2021) Table 9 for Lot Thickness Payment Adjustment shall be used to determine the Thickness Payment Adjustment.

1.4 Asphalt Boulevard

Asphalt Boulevard shall be in accordance with the most recent version of OPSS.MUNI 311 and OPSS.MUNI 1150.

CONSTRUCTION

Asphalt Boulevard shall be constructed with 50mm of Hot Mix Asphalt HL3 over a minimum of 100mm of Granular A.

1.5 Asphalt Mountable Curb and Gutter

Asphalt Mountable Curb and Gutter shall be in accordance with the most recent version of OPSS.MUNI 312 and OPSS.MUNI 1150.

CONSTRUCTION

Asphalt Mountable Curb and Gutter shall be constructed to the lines and grades shown on the Contract Drawings using Hot Mix Asphalt HL3.

Asphalt Mountable Curb and Gutter shall be constructed in the manner and form shown in OPSD 601.010 Asphalt Mountable Curb and Wide Gutter as indicated in these Specifications and the Contract Drawings.

1.6 Granular A and Granular B

Granular A shall be in accordance with the most recent version of OPSS.MUNI 314, OPSS.MUNI 1001, OPSS.MUNI 1010.

Granular B material shall be Type II, as per the Contract Drawings, and shall be in accordance with the most recent version of OPSS.MUNI 314, OPSS.MUNI 1001, OPSS.MUNI 1010.

CONSTRUCTION

Subsection 314.07.01 Granular Subbase, Base and Surface of Section 314.07 CONSTRUCTION is amended by the addition of the following:

> Granular material shall be provided, placed, graded, and compacted at the locations provided in the Contract Drawings or as directed by the Contract Administrator.
>
> The Granular base thickness indicated on the Contract Drawings shall be placed and compacted over the whole of the area of the Work. Compaction shall be achieved using vibratory rollers loaded to OPSS Specifications or other equipment approved by the Contract Administrator.
>
> The Granular subbase thickness indicated on the Contract Drawings may be reduced down to a minimum of 150mm in areas where bedrock protrudes into the proposed subgrade. Subgrade drainage should be considered by the Contract Administrator prior to allowing a reduction in subbase.

Details regarding the location, placements, depths and grades of Granular material are outlined in the Contract Drawings

QUALITY CONTROL

Testing Frequencies shall be in accordance with Appendix 1010-B of OPSS.MUNI 1010.

MEASUREMENT FOR PAYMENT

Granular A and Granular B shall be paid for by the tonne. The weight to be paid for will be the total number of tonnes of Granular material as measured on a certified weigh scale. Only material placed within the limits of the Work will be included for payment. The Contractor is to provide the tickets of delivered material to the Contract Administrator at least 48 hours prior to requesting payment.

1.7 Earth Borrow

GENERAL

This Special Provision covers the supply, hauling, placing, and grading of imported earth borrow required for construction of subgrade and boulevard grading.

Imported earth borrow material shall conform to the requirements of OPSS 212 and shall be suitable for placement to the required elevations.

Contractor shall be responsible for determining suitable Earth Borrow locations.

Earth borrow shall be placed and compacted in accordance with OPSS 212 and the Contract Documents.

Earth borrow shall be placed:

- To the required subgrade elevation, and
- For boulevard grading, where required, as shown on the Drawings or directed by the Contract Administrator.

MEASUREMENT FOR PAYMENT

Measurement for payment shall be by truck box volume of earth borrow supplied and placed, as accepted by the Contract Administrator.

BASIS OF PAYMENT

Payment at the Contract price for Earth Borrow shall include full compensation for supply of material, hauling, placement, spreading and compaction, and all labour, equipment, and incidentals necessary to complete the Work.

No separate payment will be made for haul roads under this Contract. All costs associated with haul roads shall be included in the payment for Earth Borrow.

1.8 Geotextile & Geogrid

GENERAL

Geotextile shall be Class II Non-Woven Geotextile with a 70 micron opening size meeting the requirements of OPSS 1860 (November 2018).

Geogrid should be Titan Earth Grid 24 or approved equivalent.

DELIVERY, STORAGE, AND HANDLING

During delivery and storage, protect geotextiles and geogrid from direct sunlight, ultraviolet rays, excessive heat, mud, dirt, dust, debris, and rodents. When stored outdoors, they shall be elevated and protected with a waterproof cover.

Comply with Manufacturer's specifications at all times.

CONSTRUCTION

Installation methods shall adhere to Ontario Provincial Standard Specification OPSS.MUNI 209 (November 2015) – Construction Specification for Embankments Over Swamps and Compressible Soils, this specification and as recommended by the Manufacturer.

Commence installation of geotextile fabric after material has been approved by the Contract Administrator and the preparation of the subgrade and granular materials has been completed and accepted.

Install geotextile fabric to the complete limits as shown on the Drawings or as instructed by the Contract Administrator.

Install geotextile fabric in the longest continuous practical length, free from tension, stress, wrinkles, and creases.

Cut or fold geotextile fabric to conform to curves.

Adjacent rolls of Geotextile shall be overlapped by 1.0m on longitudinal joints and 1.0m at roll ends.

Install pins or place piles of subbase material as required to hold geotextile fabric in place.

Place a minimum of 150 mm of granular material over the geotextile fabric, prior to admitting construction traffic, as required to prevent displacement, movement or damage to the underlying geotextile fabric.

Remove and replace geotextile fabric that is improperly installed or damaged as directed by the Contract Administrator. Damaged areas shall be covered with a geotextile patch which extends

an amount equal to the required overlap beyond the damaged area. Costs for such repairs are the responsibility of the Contractor.

Installation shall be approved by the Contract Administrator prior to placement of subsequent courses of fill material.

MEASUREMENT FOR PAYMENT

Geotextile and Geogrid shall be paid for by the square meter installed neatly, no payment will be made for any overlap in geotextiles or geogrid.

Geotextile used for subdrain installation shall not be measured for payment under this item.

BASIS OF PAYMENT

Payment at the Contract price for Geotextile and Geogrid shall include full compensation for supply of the geotextile or geogrid, surface preparation, handling, placement, trimming and installation, and all labour, equipment, and incidentals necessary to complete the Work.

No payment will be made for geotextile used in subdrain installations under this item, as such geotextile shall be included in the payment for the applicable subdrain item

1.9 Sidewalk

Concrete Sidewalk and Curb Faced Concrete Sidewalk shall be in accordance with the most recent version of OPSS.MUNI 351, OPSS.MUNI 353, and OPSS.MUNI 1350.

CONSTRUCTION

Concrete Sidewalk and Curb Faced Concrete Sidewalk shall be constructed in the manner and form shown in City of Kenora Standard Details for Concrete Sidewalk (Boulevard Sidewalk) and Curb Faced Concrete Sidewalk.

The contractor shall provide the Contract Administrator with 48 hours' notice prior to placing/pouring concrete.

Transverse Contraction Joints shall be cut in the Concrete Sidewalk in a manner to maintain a consistent spacing of a minimum of 1.5m, with a maximum spacing of 2m, or as approved by the Contract Administrator.

Expansion Joints shall be installed in the Concrete Sidewalk wherever the proposed sidewalk abuts to an existing concrete sidewalk or structure.

MEASUREMENT FOR PAYMENT

Curb Faced Concrete Sidewalk shall be by area in square metres. The area to be measured will be from the face of the curb to the back of the sidewalk by the length of the sidewalk.

No separate measurement for payment shall be made for the thickened edge of the sidewalk.

1.10 Tactile Walking Surface Indicator

Tactile Walking Surface Indicator shall be in accordance with the most recent version of OPSS.MUNI 351.

MATERIAL

Tactile Walking Surface Indicators shall be in accordance with City of Kenora Standard Details for Tactile Walking Surface Indicator.

MEASUREMENT FOR PAYMENT

Tactile Walking Surface Indicator shall be measured by area in square metres.

BASIS OF PAYMENT

Payment at the Contract Price for Tactile Walking Surface Indicator shall include full compensation for: supply and storage of Tactile Walking Surface Indicator materials; formwork and concrete finishing of block-outs; installation of Tactile Walking Surface Indicators; and all labour, materials, equipment, and incidentals required to complete the Work.

1.11 Concrete Curbs, Gutters, and Outlets

Concrete Curbs, and Curb and Gutters shall be in accordance with the most recent version of OPSS.MUNI 353 and OPSS.MUNI 1350.

CONSTRUCTION

Concrete Barrier Curb and Gutter shall be constructed in the manner and form shown in OPSD 600.040 Concrete Barrier Curb and Standard Gutter as indicated in these Specifications and the Contract Drawings.

Concrete Barrier Curb and Wide Gutter shall be constructed in the manner and form shown in OPSD 600.010 Concrete Barrier Curb and Wide Gutter as indicated in these Specifications and the Contract Drawings.

Concrete Semi-Mountable Curb and Gutter shall be constructed in the manner and form shown in OPSD 600.060 Concrete Semi-Mountable Curb and Standard Gutter as indicated in these Specifications and the Contract Drawings.

Concrete Barrier Curb shall be constructed in the manner and form shown in OPSD 600.110 Concrete Barrier Curb as indicated in these Specifications and the Contract Drawings.

90° Concrete Outlet shall be constructed in the manner and form shown in OPSD 604.010 Concrete Outlet for Concrete Curb with Gutter as indicated in these Specifications and the Contract Drawings.

Lines and grades for all curbs, curb and gutters, and outlets shall be as shown in the Contract Drawings.

The contractor shall provide the Contract Administrator with 48 hours' notice prior to placing/pouring concrete.

1.12 Pipe Subdrain

Pipe Subdrain shall be in accordance with the most recent version of OPSS.MUNI 405.

CONSTRUCTION

Pipe subdrains shall be 150mm diameter perforated pipe installed in a wrapped trench in the manner and form shown in OPSD 216.021 Subdrain Pipe Connection and Outlet.

Subdrain trenches shall conform to the lines and grades shown on the Contract Drawings.

Subdrain trench bedding and backfill shall be 19mm clear stone as shown in OPSD 216.021 for the wrapped trench.

As per 405.07.04, knitted sock geotextile will not be required when a geotextile wrapped trench is specified.

BASIS OF PAYMENT

As per clause 405.10.01, payment for bedding and backfill material shall be included in the Contract Price for Pipe Subdrain.

Payment for the trench wrapping geotextile shall be included in the Contract Price for Pipe Subdrain.

1.13 Catch Basin

Catch Basin shall be in accordance with the most recent version of OPSS.MUNI 407.

MATERIAL

Precast Concrete Catch Basins to be installed shall be the type identified in the Contract Drawings, and as approved by the Contract Administrator.

CONSTRUCTION

Precast Concrete Catch Basins shall be installed to the locations and grades shown in the Contract Drawings.

1.14 Adjustments

Adjustments shall be in accordance with the most recent version of OPSS.MUNI 408.

CONSTRUCTION

Adjustments to Maintenance Holes, Catch Basins, and Gate Valves shall consist of removing and salvaging existing frames and covers; installing or removing additional precast adjustment units; and setting the existing frame and/or cover to the proposed grade.

Adjustments shall be made to those frames and/or covers identified in these Specifications and the Contract Drawings.

1.15 Pipe Sewer

Pipe Sewer shall be in accordance with the most recent version of OPSS.MUNI 410.

MATERIAL

Pipe Sewers to be installed shall be the types and sizes identified in the Contract Drawings.

CONSTRUCTION

Pipe Sewers shall be installed to the lines and grades shown in the Contract Drawings.

Where connections are to be made to existing Pipe Sewers, the elevations are estimated in the Contract Drawings. True elevations shall be verified by the Contractor in the field during construction. Contractor shall verify acceptance of the actual pipe slope with the Contract Administrator.

1.16 Removals

Removals shall be in accordance with the most recent version of OPSS.MUNI 510 and OPSS.MUNI 1004.

CONSTRUCTION

All existing asphalt pavement shall be removed to the limits shown on the Contract Drawings or as directed by the Contract Administrator. Removal of Asphalt Pavement shall be assumed to be full depth, except where noted in the Contract Drawings for Removal of Asphalt Pavement – Partial Depth (50mm).

Removal of Curb and Sidewalk shall be an amalgamation of Removal of Concrete Curb and Gutter and Removal of Concrete Sidewalk. All existing curb and sidewalk shall be removed to the limits shown in the Contract Drawings or as directed by the Contract Administrator.

Steel Beam Guide Rail shall be removed to the limits shown on the Contract Drawings, or to the closest existing joint, or as directed by the Contract Administrator.

Catch Basins and Pipes shall be removed in their entirety where required to clear the way for proposed Catch Basins and Pipes.

MEASUREMENT FOR PAYMENT

Measurement of Removal of Asphalt Pavement – Partial Depth shall be by area in square metres.

Measurement of Removal of Curb and Sidewalk shall be by area in square metres. The area measured shall be the total area of curb, any gutter, and sidewalk whether the concerned curb and sidewalk are monolithic or separate.

1.17 Rip-Rap

Rip-Rap shall be in accordance with the most recent version of OPSS.MUNI 511.

MATERIAL

Rip-Rap to be used shall be R-10 based on Table 8 in OPSS.MUNI 1004.

CONSTRUCTION

Rip-Rap shall be installed to the lines and grades identified in the Contract Drawings, or as directed by the Contract Administrator.

Geotextile shall be placed under all Rip-Rap.

1.18 Permanent Small Signs

Permanent Small Signs shall be in accordance with the most recent version of OPSS.MUNI 703.

MATERIAL

The Contractor to supply new signs identified in the Contract Drawings.

The Contractor to submit shop drawings or order plan for the new signs to the Contract Administrator for approval prior to finalizing the order.

Sign boards shall be in accordance with Ontario Traffic Manual (OTM) and/or Manual of Uniform Traffic Control Devices of Canada (MUTCDC), and as approved by the Contract Administrator and the City of Kenora.

Sign retroreflectivity shall be Type IV – High Intensity Prismatic.

CONSTRUCTION

Small Signs, Ground Mounted, New to be installed on Lakeview Dr shall be at the locations identified in the Contract Drawings.

Existing signage at all other Project Locations shall be maintained and protected during construction. Any existing signage damaged by the Contractor shall be replaced in kind at the Contractor's expense. Any existing signage that cannot be avoided with construction should be brought up immediately with the Contract Administrator.

MEASUREMENT AND PAYMENT

The count of Small Sign assemblies installed shall include sign board(s), sign hardware, and sign support system installed at each location. In cases where multiple sign boards are installed on one sign support system it shall only count as one (1) Small Sign, Ground Mounted, New.

1.19 Temporary Traffic Control

Temporary Traffic Control shall be in accordance with the most recent version of OPSS.MUNI 706 and shall be established in accordance with the requirements outlined in Section 01 55 26 of this Contract.

MEASUREMENT FOR PAYMENT

Measurement and payment shall be lump sum per street, with 50% of the Contract price shall be paid upon the supply and installation of the complete initial traffic control plan. The balance will be prorated over the balance of the Contract Time.

1.20 Portable Variable Message Board

Portable Variable Message Boards (PVMB) shall be in accordance with the most recent version of OPSS.MUNI 706.

Two PVMB's will be required on this project and shall be located at the approaches to the Lakeview Drive Construction area. They shall be operational one week prior to the start of construction and run for the duration of the WORK, to advise motorists of upcoming delays or other scheduled works. The exact location shall be decided in the field with the Contract Administrator.

The PVMB shall be a Three-Line Message sign such as a WANCO Model WTLMB or approved equivalent.

Messaging on the signs shall be coordinated with the Contract Administrator and the City of Kenora and shall be adjusted on an as-required basis depending on the Contractors operations.

MEASUREMENT FOR PAYMENT

PVMBs shall be paid for on the basis of each Portable Variable Message Sign (Temporary), installed and maintained on this contract.

1.21 Pavement Markings

Pavement Markings shall be in accordance with the most recent version of OPSS.MUNI 710.

Pavement Markings shall be installed in the locations and manner identified in the Contract Drawings.

MATERIAL

Stop Lines shall be completed with Durable Pavement Markings. The durable pavement marking material shall be selected by the Contractor and approved by the Contract Administrator prior to any pavement marking installation.

MEASUREMENT FOR PAYMENT

Pavement Markings, Durable shall only be used for stop lines, and so measurement shall be by horizontal length in metres of 60cm wide line.

1.22 Traffic Signals Work

GENERAL

The work under this item shall include the supply, installation, modification, testing, commissioning, and documentation of all traffic signal components required to provide a complete, fully operational traffic signal system, as shown on the drawings and specified herein.

The Contractor shall supply shop drawings for review and approval by the Contract Administrator prior to beginning the work.

SCOPE OF WORK

The Contractor shall be responsible for all labour, materials, equipment, coordination, and incidental work necessary to complete the traffic signal installation, including but not limited to:

- Traffic signal poles, mast arms, foundations, and anchor bolts
- Signal heads, pedestrian signal heads, and mounting hardware
- Conduit, handholes, pull boxes, and duct banks
- Power service connections and grounding
- Traffic signal controller, cabinet, and associated hardware
- Vehicle detection, pedestrian pushbuttons, and accessible pedestrian signal (APS) equipment
- Interconnect and communication wiring
- Removal or modification of existing signal equipment, where required

No additional payment will be made for work that is reasonably inferred as necessary to complete the system, whether or not explicitly shown on the drawings.

POWER SERVICE

The Contractor shall coordinate with Synergy North for all power service connections.

The traffic signal power service shall include:

- Service conduit and conductors from the point of connection to the controller cabinet
- Meter base, disconnects, grounding, and bonding
- All fees, permits, inspections, and coordination required by the utility

The Contractor shall verify the location and capacity of the existing power service prior to construction and shall notify the Engineer of any discrepancies or conflicts.

CONDUIT AND WIRING

All conduit installations shall comply with applicable electrical codes.

Unless otherwise noted: Underground conduit shall be rigid PVC, Schedule 40 or 80 as required, All conduit bends shall be long-radius sweeps, Spare conduit and conductors shall be installed as shown on the drawings

All wiring shall be continuous between pull points and clearly labeled at terminations.

CONTROLLER AND CABINET

Traffic Signal Controller shall be an Arm-Based Nema TS 2, Type 2 ATC Traffic Signal Control (CN-2 Controller) or approved equivalent meeting the following specifications.

Cabinet shall be fully compatible with the proposed signal system.

1.22.1.1 Applicable Standards

All electronic components, workmanship, and functionality of the traffic signal controller shall conform to the applicable standards for TS-2 traffic signal controllers mandated by the National Electrical Manufacturers Association (NEMA), including:

- NEMA TS2-2003 Traffic Controller Assemblies with NTCIP Requirements, Version 02.06
- Advanced Transportation Controller (ATC) Standard, Version 5.2b or later
- ATC 5201 Hardware Standard
- ATC Application Programming Interface (API) Standard 5401 (Version 02.06b or later)
- NTCIP 1201 – Global Object Definitions
- NTCIP 1202 – Actuated Signal Controller Units
- NTCIP 1210 – Signal System Masters
- NTCIP 1211 – Signal Control and Prioritization

These standards specify minimum requirements except where requirements in this document exceed those standards, in which case this document shall govern.

1.22.1.2 ATC Traffic Controller Hardware Requirements

1.22.1.2.1 Enclosure

The controller enclosure shall be designed for shelf mounting and shall be constructed of aluminum with a protective finish. The enclosure shall enclose all electrical components of the controller and shall not exceed the dimensional requirements for NEMA TS-2 Type 1 or Type 2 controllers.

All hardware and electrical components shall be modular for ease of replacement and repair. All connectors, fuse holders, indicators, displays, switches, and control devices required for operation and adjustment shall be mounted on the front panel and permanently labeled.

1.22.1.2.2 Power Supply

The power supply shall be capable of supplying 95–250 VAC, 50/60 Hz, auto-sensing input and shall meet all ATC and NEMA environmental and performance requirements.

1.22.1.2.3 Engine Board and CPU

The engine board and CPU shall be compliant with ATC 5201 and shall meet the following minimum specifications:

• Motorola PowerPC (Freescale) 8248 processor or approved equivalent
• 32-bit architecture
• Minimum performance of 750 MIPS at 400 MHz
• Minimum memory of 2 MB SRAM, 64 MB Flash, and 128 MB DRAM

There shall be no batteries, fans, or rotating storage devices.

1.22.1.2.4 Display and Keypad

The controller shall include a front-panel mounted display with a minimum resolution of 256 × 128 pixels (OLED or approved equivalent), readable across the full specified temperature range.

All keypads shall be front-panel mounted, weather resistant, and suitable for field operation.

1.22.1.3 Communications Interfaces

In addition to all NEMA TS-2 requirements, the ATC traffic controller shall include a comprehensive set of front-panel and external communications interfaces to support local, centralized, and peer-to-peer operations.

At a minimum, the controller shall provide:

- A minimum of four (4) front-panel mounted 10/100 Mbps Ethernet ports, suitable for device networking, field communications, and peer-to-peer controller communications
- Support for multiple, user-programmable IP network configurations, allowing separation of local, system, and third-party communications traffic
- A minimum of three (3) front-panel USB ports to support removable media, configuration transfer, diagnostics, and peripheral devices
- A front-panel Secure Digital (SD) card slot with status indication, supporting data storage, database transfer, logging, and diagnostics

In addition, the controller shall support auxiliary and legacy communications interfaces as required for compatibility with NEMA and ATC cabinet environments, including:

- External serial communications interfaces suitable for cabinet, detector, or peripheral conectivity
- Support for SDLC/HDLC communications as required for NEMA TS-2 and ATC cabinet applications

All communications interfaces shall be fully supported by the controller operating system and application software and shall be accessible for configuration, diagnostics, and monitoring through both the front-panel interface and the embedded web-based user interface.

1.22.1.4 Operating System and Software Platform

The ATC traffic controller shall operate on a Linux-based operating system with kernel version 3.14 or later and shall include standard POSIX libraries with real-time extensions.

The operating system shall support control groups (cgroups) for resource management. The controller software shall support an open architecture platform and be fully compliant with the ATC Application Programming Interface (API). A manufacturer-supported Board Support Package (BSP) shall be provided.

Operating system and application updates shall be supported via Ethernet or USB media and shall not require removal of the controller from service or placing the intersection into flash for minor updates.

All NTCIP Management Information Base (MIB) files associated with the licensed controller software, including manufacturer-specific objects, shall be publicly available without redistribution restrictions.

1.22.1.5 Local Intersection Control Software Functionality

The intersection control software shall provide, at a minimum, all functionality specified in the NEMA TS-2 and NTCIP standards.

In addition, the controller shall support:

- Forty (40) programmable vehicle phases
- Thirty-two (32) overlaps
- Sixteen (16) timing rings configurable to operate concurrently or independently
- Twenty (20) or more user-configurable ring and barrier sequences
- One hundred twenty-eight (128) independently programmable timing patterns

Advanced coordination functionality shall include early gap-out of coordinated phases, multiple coordination modes, configurable force-offs by phase and time-of-day, zero-transition pattern changes, queue-responsive operation with programmable hysteresis, and peer-to-peer communications using Ethernet.

1.22.1.6 Transit Signal Priority

The controller shall support Transit Signal Priority (TSP) functionality compliant with NTCIP 1211.

TSP functionality shall include multiple priority routines, support for multiple detection inputs, phase extension, early green, phase insertion or rotation, configurable priority limits, and logging and reporting of priority activity via NTCIP objects.

Any additional licensing or costs associated with TSP shall be clearly identified by the Supplier.

1.22.1.7 Pre-emption

The controller shall support a minimum of sixteen (16) pre-emption routines, including emergency vehicle and rail pre-emption, with configurable entrance and exit strategies and multiple return-to-service options consistent with NEMA TS-2 requirements.

1.22.1.8 User Interface and Security

The controller shall provide both a front-panel user interface and an embedded web-based graphical user interface accessible via standard web browsers without proprietary software.

The system shall support user authentication, user account management, role-based access, and activity logging. All configuration changes shall be time- and date-stamped and associated with the user making the change.

1.22.1.9 Diagnostic Tools

The ATC traffic controller and intersection control software shall include integrated diagnostic and monitoring tools as a required component of the base system.

Diagnostic tools shall provide real-time and historical visibility into controller operation, including phase and interval status, detector inputs, pre-emption and priority activity, communications status, input/output states, and coordination activity.

The controller shall provide onboard diagnostic capability for all front-panel components, including but not limited to the keyboard, display, Ethernet ports, USB ports, SD card interface, indicators, switches, and power controls.

The diagnostic system shall support fault detection, status replay, customizable alarms, and time-stamped event logging accessible via both the front-panel interface and the web-based user interface, without proprietary external tools.

1.22.1.10 Database Management

The controller shall support storage of multiple traffic signal databases. Databases shall be transferable via Ethernet or removable media, selectable from the front-panel or web interface, lockable to prevent unauthorized changes, and capable of automatic backup.

Seamless switching between databases shall occur during all-red conditions.

1.22.1.11 Windows-Based Controller Emulation Software

One (1) copy of a Windows-based traffic signal controller emulation software package shall be supplied. The software shall be compatible with the latest Windows operating system and shall match the firmware version supplied with the controller.

Updates to the emulation software shall be provided at no charge concurrently with firmware updates.

1.22.1.12 Training, Documentation, Warranty, and Support

The Supplier shall provide comprehensive training for City personnel, including initial and refresher training sessions.

Programming and maintenance manuals shall be provided in electronic format and kept current. The Supplier shall provide a minimum three-year warranty covering defects in materials and workmanship.

Emergency technical support shall be available during normal business hours with response times consistent with City requirements.

1.22.1.13 Connected Vehicle Ready

The controller shall be Connected Vehicle (CV) ready. Time-to-Green and associated confidence intervals shall be supported via standard or manufacturer-specific NTCIP objects and XML protocol and included in the manufacturer's NTCIP MIBs.

VEHICLE DETECTION

Vehicle detection shall be provided using Wavetronix radar detection equipment or an approved equivalent. All vehicle detection equipment shall be supplied, installed, configured, and commissioned by the Contractor as part of this work.

Cable shall be Wavetronix 6-Conductor Home Run Cable or equivalent.

The Contractor shall be responsible for:

- Furnishing all detection units, mounting hardware, cabling, and interface modules
- Installing detection equipment in accordance with the manufacturer's recommendations and applicable standards
- Integrating detection with the traffic signal controller and cabinet
- Testing and verifying proper operation prior to signal turn-on

Any proposed equivalent detection system shall be subject to review and acceptance by the Engineer prior to installation.

SIGNAL HEADS & PEDESTRIAN HEADS

Signals shall be GTX VLD-040 Series (300mm diameter) or approved equivalent mounted in aluminum housing with yellow backboard.

Traffic Signal heads shall be 3-section heads with 300mm L.E.D. Lights.

3-Section bike signal shall have a typica bike symbol mounted to the green light display.

The 4-Section head shall have a 4th green LED with directional arrow pointing to the left/

All signals shall be housed in an appropriate polycarbonate housing mounted on yellow backboard with appropriate retro-reflectivity with manufacturer-supplied mounting brackets.

Pedestrian heads shall be 12” standard pedestrian heads complete with countdown timers, appropriate housing, and manufacturer-supplied mounting brackets..

BREAKAWAY BASES

Pole shall be mounted on Breakaway Bases: RP9-TP9 (Safety Bases Ltd.) or approved equivalent.

PULLPITS

PullPits shall be duomold Tier 22 (Type 2436-24) Grade Level Buried Enclosure.

PUSHBUTTONS

Push buttons audible and touchless meeting O.Reg. 413/12 requirements.

CONSTRUCTION

1. The Contractor shall complete the works as indicated in the plans for each of the signalized intersections. The work shall be undertaken to meet the requirements of O.Reg. 413/12.
2. Prior to commencing design advancement, the Contractor shall physically lay out the proposed locations of all pull pits at each intersection.
3. Layout shall reflect the intent of the design and accommodate existing infrastructure and site constraints.
4. Pull pit locations shall be clearly marked in the field and referenced to fixed site features.
5. The Contractor shall verify existing traffic signal infrastructure at each intersection, including but not limited to:
    a. Existing conduits and duct banks
    b. Pull pits and handholes.
    c. Signal poles, foundations, and controller cabinets.
    d. Underground and overhead conflicts.
    e. Verification shall include field investigation and review of available record drawings.
    f. Any discrepancies between record information and field conditions shall be documented.+
6. Following the verification and layout of pull-pits and the concrete bases, the Contractor shall proceed with the design and construction until testing and commissioning of the works.

TESTING AND COMMISSIONING

Prior to acceptance, the Contractor shall:

- Test all signal indications, detection, and pushbuttons
- Verify correct phasing, clearance intervals, and coordination
- Demonstrate proper operation to the Engineer

Any deficiencies identified shall be corrected at no additional cost.

MEASUREMENT AND PAYMENT

Payment for Traffic Signal Installation and Modifications shall be made on a lump sum basis per intersection location.

The lump sum price shall be full compensation for all labour, materials, equipment, coordination, power service work, vehicle detection (including Wavetronix or approved equivalent), testing, commissioning, restoration, and all incidental work necessary to provide a complete and fully operational traffic signal installation at each intersection.

No separate measurement or payment will be made for individual components or partial work within an intersection location.

1.23 Streetlight Work

This Special Provision covers the removal of existing roadway lighting infrastructure and the supply, installation, connection, grounding, testing, and commissioning of new roadway lighting systems, complete.

The Work shall be completed in accordance with:

- Ontario Provincial Standard Specifications (OPSS) and OPSS Electrical Specifications
- City of Kenora standards and specifications
- Canadian Electrical Code (CEC), latest edition
- Utility provider requirements

Where discrepancies occur, this Special Provision shall govern.

SCOPE OF WORK

The Work includes, but is not limited to:

- Removal and disposal of existing lighting poles, luminaires, foundations, and appurtenances

- Supply and installation of new lighting poles, foundations, brackets, luminaires, conduits, handholes, wiring, and associated components
- Installation of HDPE conduit for future underground electrical conversion crossing Lakeview Drive at the Wiigwas Elder Care Center, as shown on the Drawings.
- Installation of electrical services, connections to existing infrastructure, and grounding systems
- Coordination with the electrical utility (Synergy North)
- Testing, commissioning, and restoration

The Contractor shall provide a complete and fully operational street lighting system, whether or not all individual components are explicitly shown on the Drawings.

DEMOLITION

Existing roadway lighting poles, luminaires, foundations, and associated appurtenances identified for removal shall be:

- Safely dismantled and removed; and
- Disposed of off-site in accordance with applicable regulations.

Demolition shall be completed in a manner that minimizes disruption to traffic, pedestrians, and adjacent properties.

MATERIALS

New roadway lighting components shall include the following, or approved equivalents:

- Poles: Valmont – Galvanized Octagonal 30 ft – 0 in Pole
- Pole Foundations: Concrete anchor base constructed in accordance with City of Kenora Standard Details
- Luminaire Mounting Bracket: Valmont – EL8ALNF Bracket
- Luminaires: CREE Lighting – XSPMD D HT 2ME 12L 40K UL SV N Q9
- Breakaway Bases: RP9-TP9 (Safety Bases Ltd.) or approved equivalent.

Equivalent products shall be subject to approval by the Contract Administrator prior to installation.

ELECTRICAL SERVICE AND POWER CONNECTIONS

The Contractor shall be responsible for supplying and installing all electrical service infrastructure required to energize the street lighting system, in accordance with OPSS, City of Kenora standards, and utility requirements.

This work shall include, but not be limited to:

- Service conduits, conductors, handholes, and pole base wiring
- Meter bases, disconnects, and service equipment where required
- Physical connection of new lighting circuits to the existing electrical distribution infrastructure at locations shown on the Drawings or as directed by the Engineer

Where portions of the service connection are performed by the utility, the Contractor shall remain responsible for providing all preparatory work and for ensuring the system is complete and operational.

HDPE CONDUIT FOR FUTURE USE

Installation of HDPE conduit for future underground electrical conversion crossing Lakeview Drive at the Wiigwas Elder Care Center, as shown on the Drawings. Ends of the HDPE shall be marked with a flexible utility marker in as per OPSD 2555.010.

COORDINATION WITH SYNERGY NORTH

The Contractor shall coordinate all aspects of electrical service and power connection work with Synergy North, including:

- Service applications
- Scheduling of utility work
- Inspections and approvals
- Service energization

All costs associated with coordination, utility requirements, inspections, fees, and support necessary to complete the power connection shall be included in the Contract Price.

Coordination with Synergy North shall not be construed as relieving the Contractor of responsibility for the completeness or performance of the Work.

GROUNDING AND BONDING

All street lighting installations shall be grounded and bonded in accordance with:

- Canadian Electrical Code (CEC)

- OPSS Electrical requirements
- City of Kenora standards
- Utility requirements

Grounding and bonding shall include:

- Installation of grounding conductors with all lighting circuits
- Bonding of poles, luminaires, handholes, and all metallic components
- Connection to existing grounding systems where available

Where an acceptable grounding system does not exist, the Contractor shall supply and install grounding electrodes as required.

Grounding and bonding shall be considered incidental to the Work and included in the Contract Price.

MEASUREMENT AND PAYMENT

Measurement for payment shall be on a lump sum basis.

Measurement for payment shall be on a lump sum basis for each Section requiring Streetlighting Works. Payment at the Contract price for Streetlight Work shall include full compensation for: Demolition and removal of existing lighting infrastructure, Supply and installation of poles, foundations, brackets, luminaires, conduits, wiring, electrical services, grounding, and connections, Coordination with Synergy North (including any permits), and Testing, commissioning, restoration, labour, equipment, and incidentals

No separate payment will be made for any component or partial element of this Work

All excavation, backfilling, restoration, labour, materials, equipment, and incidentals required to complete the Work.

1.24 Steel Beam Guide Rail

Steel Beam Guide Rail shall be in accordance with the most recent version of OPSS.MUNI 721.

MATERIAL

Steel Beam Guide Rail system requirements are identified in the Contract Drawings.

CONSTRUCTION

Steel Beam Guide Rail shall be installed at locations identified in the Contract Drawings.

One connection to an existing structure shall be made on the North of Lakeview Drive at the Winnipeg River East Branch Bridge.

1.25 Steel Beam Energy Attenuating Terminal

Steel Beam Energy Attenuating Terminal shall be in accordance with the most recent version of OPSS.MUNI 732.

CONSTRUCTION

Steel Beam Energy Attenuating Terminal shall be installed at locations and in the orientation identified in the Contract Drawings.

On Lakeview Drive, Steel Beam Energy Attenuating Terminal shall be connected to three (3) existing guardrail systems and five (5) new guardrail systems, as per the Contract Drawings.

On Lakeview Drive at Parsons Street Intersection, Steel Beam Energy Attenuating Terminal shall be connected to one (1) existing guardrail systems and two (2) new guardrail systems, as per the Contract Drawings.

1.26 Topsoil

Topsoil shall be in accordance with the most recent version of OPSS.MUNI 802.

CONSTRUCTION

Topsoil shall be imported and placed to a depth of 50mm in all areas disturbed by construction, including but not limited to: behind asphalt multi-use path or sidewalk, between asphalt multi-use path or sidewalk and curb and gutter (where not designated for alternative treatments in the Contract Drawings), along slopes of new shoulder construction or behind curb and gutter lines and ditches, as directed by the Contract Administrator.

1.27 Sod

Sod shall be in accordance with the most recent version of OPSS.MUNI 803.

CONSTRUCTION

Sod shall be placed in all areas prepared with topsoil.

1.28 Relocate Transit Shelter

This Special Provision covers the relocation of the existing transit shelter at the southwest corner of the intersection of Lakeview Drive and Parsons Street, including demolition of the existing concrete base and construction of a new concrete base.

GENERAL

Relocation of the transit shelter shall be completed in consultation with the Contract Administrator and the City of Kenora.

The exact relocation location shall be determined on site and approved by the Contract Administrator and the City of Kenora prior to construction.

CONSTRUCTION

The Work shall include, but is not limited to, the following:

- Careful removal, salvaging, and storage, on or off-site, of the existing transit shelter;
- Demolition and removal of the existing concrete base;
- Supply and installation of a new reinforced concrete base with nominal dimensions of: 4.0 m long × 2.5 m wide × 0.3 m thick;
- Placement, finishing, curing, reinstallation of transit shelter and all work necessary to provide a complete and functional installation.

All work shall be completed in accordance with the Contract Documents and to the satisfaction of the Contract Administrator and the City of Kenora.

MEASUREMENT FOR PAYMENT

Measurement for payment shall be lump sum.

BASIS OF PAYMENT

Payment at the Contract Price for Relocate Transit Shelter shall include full compensation for: coordination with the Contract Administrator and the City of Kenora; demolition and disposal of the existing concrete base; supply and installation of the new concrete base; removal, salvaging, storage and reinstallation of the transit shelter; and all labour, materials, equipment, and incidentals required to complete the Work.

No separate payment will be made for any part of this Work.

1.29 Relocate Water Fountain

This Special Provision covers the relocation of the existing water fountain at the southwest corner of the intersection of Lakeview Drive and Parsons Street, including demolition of the existing concrete base and construction of a new concrete base.

GENERAL

Relocation of the water fountain shall be completed in consultation with the Contract Administrator and the City of Kenora.

The exact relocation location shall be determined on site and approved by the Contract Administrator and the City of Kenora prior to construction.

CONSTRUCTION

The Work shall include, but is not limited to, the following:

- Disconnection of existing water service,
- Careful removal, salvaging, and storage, on or off-site, of the existing water fountain;
- Demolition and removal of the existing concrete base;
- Supply and installation of a new reinforced concrete base with nominal dimensions of: 2.0 m long × 2.0 m wide × 0.15 m thick;
- Placement, finishing, curing, reinstallation of water fountain and all work necessary to provide a complete and functional installation.
- Installation of new drinking water service complete with required testing in accordance with the applicable regulatory requirements.

All work shall be completed in accordance with the Contract Documents and to the satisfaction of the Contract Administrator and the City of Kenora.

MEASUREMENT FOR PAYMENT

Measurement for payment shall be lump sum.

BASIS OF PAYMENT

Payment at the Contract Price for Relocate Water Fountain shall include full compensation for: coordination with the Contract Administrator and the City of Kenora; demolition and disposal of the existing concrete base; supply and installation of the new concrete base; removal, salvage, storage and reinstallation of the water fountain; and all labour, materials, equipment, and incidentals required to complete the Work.

No separate payment will be made for any part of this Work.

1.30 Bollards

This Special Provision covers the removal, salvaging, and reinstallation of wooden bollards on Lakeview Drive and the installation of new steel pipe bollards on Railway Street.

GENERAL

Remove and Salvage Wooden Bollards shall be completed at the locations identified in the Contract Drawings.

Reinstall Wooden Bollards in the original locations once the temporary intersection has been closed and removed.

Steel Pipe Bollards shall be installed at the locations identified in the Contract Drawings.

MATERIAL

Steel Pipe for Steel Pipe Bollard shall be a 150mm diameter section of steel pipe filled in place with 32MPa concrete.

CONSTRUCTION

1.30.1.1 Remove and Salvage Wooden Bollard

Wooden bollards shall be removed from the existing ground in a manner that prevents damaging the bollards.

Wooden bollards shall be stored on or off-site in a manner that prevents damage or loss. The Contractor shall be responsible for ensuring that an equivalent number of bollards are on site, to be reinstalled, when traffic is returned to the Nethercutt Drive intersection and the temporary intersection is removed.

1.30.1.2 Reinstall Wooden Bollard

Wooden Bollards shall be reinstalled in the original locations, or equally spaced with the remaining bollards, to the same height as the original installation.

Holes shall be excavated sufficiently deep and backfilled around the reinstalled bollards, as approved by the Contract Administrator.

1.30.1.3 Install Steel Pipe Bollard

Install Steel Pipe Bollard in accordance with City of Thunder Bay STD DWG NO. M-114.

MEASUREMENT FOR PAYMENT

For measurement purposes, a count shall be made of the number of Wooden Bollards removed and salvaged, and reinstalled.

For measurement purposes, a count shall be made of the number of Steel Pipe Bollards installed.

BASIS OF PAYMENT

Payment at the Contract Price for Remove and Salvage Wooden Bollards shall include full compensation for: removal, salvage, and replacement of any damaged or lost wooden bollards, and all labour, materials, equipment, and incidentals required to complete the Work.

Payment at the Contract Price for Reinstall Wooden Bollards shall include full compensation for: excavation, backfill operations, and all labour, materials, equipment, and incidentals required to complete the Work.

Payment at the Contract Price for Install Steel Pipe Bollard shall include full compensation for: excavation, supply of steel pipe, installation and finishing of concrete, backfill operations, painting, and all labour, materials, equipment, and incidentals required to complete the Work.

1.31 Remove and Salvage Concrete Barriers

This Special Provision covers the removal and salvaging of the concrete barriers at the west leg of the intersection of Lakeview Drive and Parsons Street, including removal, loading, hauling, and delivery to the City of Kenora Maintenance Yard.

GENERAL

Removal and Salvaging of the Concrete Barriers shall be completed in consultation with the Contract Administrator and the City of Kenora.

The exact location for delivery shall be coordinated with the Contract Administrator and the City of Kenora prior to commencing the removal.

CONSTRUCTION

The Work shall include, but is not limited to, the following:

- Disconnection of any connecting rods,
- Careful removal, salvaging, and loading, of approximately 30m (approximately 4m lengths) of concrete barriers;
- Delivery and unloading at the designated location;

All work shall be completed in accordance with the Contract Documents and to the satisfaction of the Contract Administrator and the City of Kenora.

MEASUREMENT FOR PAYMENT

Measurement for payment shall be lump sum.

BASIS OF PAYMENT

Payment at the Contract Price for Remove and Salvage Concrete Barriers shall include full compensation for: coordination with the Contract Administrator and the City of Kenora; removal, loading, hauling, and unloading; and all labour, materials, equipment, and incidentals required to complete the Work.

END OF SECTION

APPENDIX I
SUPPLEMENTARY REPORTS

CITY OF KENORA

The following reports are available upon request:

- Lakeview Drive Geotechnical Report
- Railway Street Geotechnical Report
- Excess Soils Characterization Report for the following locations:
    - Lakeview Drive – Parsons Street Intersection
    - Railway Street
    - Fourth Avenue South
    - Back Lane
    - Sixth Street South
    - Sixth Avenue South
- The Excess Soils Characterization Report for Lakeview Drive will be supplied to the successful bidder

APPENDIX J
QUANTITY SHEETS

CITY OF KENORA

Index	
Sheet No.	Description
1 to 2	Grading
3 to 4	Hot Mix
4 to 5	Granular A
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7 to 8	Miscellaneous Urban Items
9 to 10	Sewer
11 to 12	Removals
13 to 16	Ground Mounted Signs
17 to 18	Pavement Markings
19	Guide Rail
20 to 21	Erosion and Sediment Control

Quantities - Grading										
Location & Position	From Station	To Station	Side	Length	Earth Excavation, Grading (Roadway) m3	Earth Excavation, Grading (Path) m3	Earth Excavation, Grading (Temporary) m3	Rock Excavation, Grading (Roadway) m3	Geotextile, m^2	Geogrid, m^2
Lakeview Mainline	0+100	0+180	Lt	80	480.2				580.0	580.0
Lakeview Mainline	0+100	0+180	Rt	80	406.6	23.4			577.0	577.0
Lakeview Mainline	0+180	0+300	Lt	120	724.5				953.0	953.0
Lakeview Mainline	0+180	0+300	Rt	120	571.3	99.4	38.6		690.0	690.0
Lakeview Mainline	0+300	0+420	Lt	120	720.4				870.0	930.0
Lakeview Mainline	0+300	0+420	Rt	120	654.9	99.4			1070.0	1070.0
Lakeview Mainline	0+420	0+540	Lt	120	720.4				870.0	870.0
Lakeview Mainline	0+420	0+540	Rt	120	586.3	99.4			758.0	758.0
Lakeview Mainline	0+540	0+660	Lt	120	775.1				1032.0	1032.0
Lakeview Mainline	0+540	0+660	Rt	120	613.8	99.4			883.0	883.0
Lakeview Mainline	0+660	0+790	Lt	130	848.6				1044.5	1104.5
Lakeview Mainline	0+660	0+790	Rt	130	653.8	107.6	50.0		789.6	789.6
Lakeview Mainline	0+790	0+920	Lt	130	705.9				852.5	852.5
Lakeview Mainline	0+790	0+920	Rt	130	907.4	81.0	7.0		1095.9	1095.9
Lakeview Mainline	0+920	1+025	Lt	105	630.3				761.3	761.3
Lakeview Mainline	0+920	1+025	Rt	105	532.3	40.2			642.9	642.9
Nethercutt Dr					964.2				1013.0	1013.0
Miscellaneous								100.0		
Sub Total					**11496.0**	**650.0**	**96.0**	**100.0**	**14483.0**	**14603.0**
Total					**12242**					

Quantities - Grading									
Location & Position	From Station	To Station	Side	Length	Earth Excavation, Grading (Roadway) m3	Earth Excavation, Grading (Approach) m3	Rock Excavation, Grading (Roadway) m3	Geotextile, m^2	Geogrid, m^2
Railway Mainline	1+033	1+140	Lt	107	379.5	31.0		586	586
Railway Mainline	1+033	1+140	Rt	107	379.5	67.2		751	751
Railway Mainline	1+140	1+260	Lt	120	517.5	12.0		680	680
Railway Mainline	1+140	1+260	Rt	120	517.5	52.1		947	947
Railway Mainline	1+260	1+320	Lt	60	258.8	11.1		374	374
Railway Mainline	1+260	1+320	Rt	60	258.8	2.9		319	319
Miscellaneous							50.0		
Sub Total					**2312**	**177**			
Total					**2489**		**50**	**3657**	**3657**

Quantities - Hot Mix (m^2)										
Location Description	From Station	To Station	Side	Length	HL3 - 50mm Depth (Surface)	HL8 - 70mm Depth (Binder)	HL3 - 50mm Depth (Multi-Use Path)	HL3 - 70mm Depth (Asphalt Parking Lot)	HL3 - 50mm Depth (Asphalt Boulevard)	HL4 - 50mm Depth (Temporary)
Lakeview Mainline	0+100	0+180	Lt	80	572.0	572.0				
Lakeview Mainline	0+100	0+180	Rt	80	568.7	568.7	97.4			
Lakeview Mainline	0+180	0+300	Lt	120	858.0	949.3				
Lakeview Mainline	0+180	0+300	Rt	120	660.0	660.0	396.0			386.0
Lakeview Mainline	0+300	0+420	Lt	120	858.0	858.0				
Lakeview Mainline	0+300	0+420	Rt	120	1078.0	1078.0	359.7			
Lakeview Mainline	0+420	0+540	Lt	120	858.0	858.0				
Lakeview Mainline	0+420	0+540	Rt	120	734.8	734.8	349.8			
Lakeview Mainline	0+540	0+660	Lt	120	1036.2	1036.2		87.0		
Lakeview Mainline	0+540	0+660	Rt	120	872.3	872.3	346.5			
Lakeview Mainline	0+660	0+790	Lt	130	1041.7	1041.7		208.0		
Lakeview Mainline	0+660	0+790	Rt	130	761.3	761.3	429.0		30.1	100.0
Lakeview Mainline	0+790	0+920	Lt	130	830.5	830.5	47.3			
Lakeview Mainline	0+790	0+920	Rt	130	1098.2	1098.2	322.7		264.8	70.0
Lakeview Mainline	0+920	1+025	Lt	105	750.8	750.8				
Lakeview Mainline	0+920	1+025	Rt	105	620.5	620.5	167.2		55.7	
Nethercutt Dr					1531.9	1113.9			200.0	
Totals					**14731**	**14405**	**2516**	**295**	**551**	**556**

Quantities - Hot Mix (m^2)									
Location Description	From Station	To Station	Side	Length	HL3 - 40mm Depth (Surface)	HL8 - 60mm Depth (Binder)	HL3 - 50mm Depth (Asphalt Boulevard)		
Railway Mainline	1+033	1+140	Lt	107	487.7	480.7	32.0		
Railway Mainline	1+033	1+140	Rt	107	485.7	403.7			
Railway Mainline	1+140	1+260	Lt	120	555.0	528.0			
Railway Mainline	1+140	1+260	Rt	120	583.0	528.0			
Railway Mainline	1+260	1+320	Lt	60	310.0	264.0			
Railway Mainline	1+260	1+320	Rt	60	271.0	264.0			
Total (m^2)					**2693**	**2469**	**32**		

Quantities - Granular A (t)										
Location & Position	From Station	To Station	Side	Length	Granular A - 150mm Roadway	Granular A - 150mm Multi-Use Path	Granular A - 50mm Sidewalk	Granular A - 100mm Medians & Islands	Granular A - 150mm Approaches	Granular A - Temporary
Lakeview Mainline	0+100	0+180	Lt	80	235.1					
Lakeview Mainline	0+100	0+180	Rt	80	186.5	41.3	27.5		54.5	
Lakeview Mainline	0+180	0+300	Lt	120	352.7				12.9	
Lakeview Mainline	0+180	0+300	Rt	120	279.7	175.1				52.2
Lakeview Mainline	0+300	0+420	Lt	120	352.7					
Lakeview Mainline	0+300	0+420	Rt	120	279.7	159.1			177.1	34.5
Lakeview Mainline	0+420	0+540	Lt	120	352.7					
Lakeview Mainline	0+420	0+540	Rt	120	279.7	154.7			31.7	
Lakeview Mainline	0+540	0+660	Lt	120	352.7				116.1	
Lakeview Mainline	0+540	0+660	Rt	120	279.7	153.2			90.0	
Lakeview Mainline	0+660	0+790	Lt	130	382.1				144.5	
Lakeview Mainline	0+660	0+790	Rt	130	320.1	189.7		7.1		40.5
Lakeview Mainline	0+790	0+920	Lt	130	345.6	20.0				
Lakeview Mainline	0+790	0+920	Rt	130	444.3	142.7		84.5		9.5
Lakeview Mainline	0+920	1+025	Lt	105	308.6					
Lakeview Mainline	0+920	1+025	Rt	105	260.6	70.9	45.2	13.1		
Nethercutt Dr					410.5		36.5	54.1		
Totals					**5423**	**1107**	**110**	**159**	**627**	**137**
Total (t)					**7563**					

Quantities - Granular A (t)						
Location & Position	From Station	To Station	Side	Length	Granular A - 150mm Roadway	Granular A - 150mm Approaches
Railway Mainline	1+033	1+140	Lt	107	187.3	50.1
Railway Mainline	1+033	1+140	Rt	107	193.4	64.0
Railway Mainline	1+140	1+260	Lt	120	255.4	31.0
Railway Mainline	1+140	1+260	Rt	120	255.4	134.5
Railway Mainline	1+260	1+320	Lt	60	127.7	28.7
Railway Mainline	1+260	1+320	Rt	60	127.7	7.4
Totals					**1147**	**316**
Total (t)					**1463**	

Quantities - Granular B (t)							
Location & Position	From Station	To Station	Side	Length	Granular B Type II - 450mm Roadway		
Lakeview Mainline	0+100	0+180	Lt	80	660.3		
Lakeview Mainline	0+100	0+180	Rt	80	523.7		
Lakeview Mainline	0+180	0+300	Lt	120	990.5		
Lakeview Mainline	0+180	0+300	Rt	120	785.6		
Lakeview Mainline	0+300	0+420	Lt	120	990.5		
Lakeview Mainline	0+300	0+420	Rt	120	785.6		
Lakeview Mainline	0+420	0+540	Lt	120	990.5		
Lakeview Mainline	0+420	0+540	Rt	120	785.6		
Lakeview Mainline	0+540	0+660	Lt	120	990.5		
Lakeview Mainline	0+540	0+660	Rt	120	785.6		
Lakeview Mainline	0+660	0+790	Lt	130	1073.0		
Lakeview Mainline	0+660	0+790	Rt	130	974.9		
Lakeview Mainline	0+790	0+920	Lt	130	970.6		
Lakeview Mainline	0+790	0+920	Rt	130	1247.7		
Lakeview Mainline	0+920	1+025	Lt	105	866.7		
Lakeview Mainline	0+920	1+025	Rt	105	731.9		
Nethercutt Dr					1152.8		
Totals					**15306**		
Total (t)					**15306**		

Quantities - Granular B (t)							
Location & Position	From Station	To Station	Side	Length	Granular B Type II - 350mm Roadway		
Railway Mainline	1+033	1+140	Lt	107	409.1		
Railway Mainline	1+033	1+140	Rt	107	422.4		
Railway Mainline	1+140	1+260	Lt	120	557.9		
Railway Mainline	1+140	1+260	Rt	120	557.9		
Railway Mainline	1+260	1+320	Lt	60	278.9		
Railway Mainline	1+260	1+320	Rt	60	278.9		
Totals					**2506**		
Total (t)					**2506**		

Quantities - Miscellaneous Urban Items											
Location & Position	From Station	To Station	Side	Concrete Barrier Curb and Gutter (m) OPSD 600.040	Concrete Barrier Curb and Gutter (m) OPSD 600.040 Reduced Height, 100mm	Concrete Semi-Mountable Curb and Gutter (m) OPSD 600.060	Concrete Sidewalk, 100mm Depth (m^2)	Curb Faced Concrete Sidewalk, 100mm Depth (m^2)	Install Catch Basin, Concrete OPSD 705.010 (each)	Install Catch Basin, Concrete OPSD 705.020 (each)	Pipe Subdrain, 150mm Dia. (m)
Lakeview Mainline	0+100	0+180	Lt								
Lakeview Mainline	0+100	0+180	Rt	72			56				
Lakeview Mainline	0+180	0+300	Lt								
Lakeview Mainline	0+180	0+300	Rt	120							
Lakeview Mainline	0+300	0+420	Lt	37							38
Lakeview Mainline	0+300	0+420	Rt	120			22				
Lakeview Mainline	0+420	0+540	Lt	120							120
Lakeview Mainline	0+420	0+540	Rt	27	93		23				
Lakeview Mainline	0+540	0+660	Lt	95		25					120
Lakeview Mainline	0+540	0+660	Rt	120			6				25
Lakeview Mainline	0+660	0+790	Lt	65		65					93
Lakeview Mainline	0+660	0+790	Rt	143							130
Lakeview Mainline	0+790	0+920	Lt	96							
Lakeview Mainline	0+790	0+920	Rt	234			10		3	2	170
Lakeview Mainline	0+920	1+025	Lt	23							
Lakeview Mainline	0+920	1+025	Rt	153			97		1		29
Nethercutt Dr				222			192	110			
Sub Totals				**1647**	**93**	**90**	**406**	**110**	**4**	**2**	**725**
Totals				**1740**							

Quantities - Miscellaneous Urban Items							
Location & Position	From Station	To Station	Side	Concrete Barrier Curb and Gutter (m) OPSD 600.010	90 Concrete Outlet (m^2)	Install Catch Basin, Concrete OPSD 705.010 (each)	Pipe Subdrain, 150mm Dia. (m)
Railway Mainline	1+033	1+140	Lt	117	1		
Railway Mainline	1+033	1+140	Rt	107	1		
Railway Mainline	1+140	1+260	Lt	120		3	98
Railway Mainline	1+140	1+260	Rt	120		1	16
Railway Mainline	1+260	1+320	Lt	60			
Railway Mainline	1+260	1+320	Rt	60			14
Sub Totals				**584**	**2**	**4**	**128**

Quantities - Pipe Sewers						
Location & Position	Station	Side	Diameter (mm)			Pipe Material
			250	450	525	
Nethercutt Dr	0+818	Rt	17			PVC
Nethercutt Dr	0+835	Rt		22		PVC
Nethercutt Dr	0+847	Rt	10			PVC
Nethercutt Dr	0+857				2	PVC
Nethercutt Dr	0+869	Rt		15		PVC
Nethercutt Dr	0+933	Rt	2			PVC
Total			**29**	**37**	**2**	

Quantities - Pipe Sewers					
Location & Position	Station	Side	Diameter (mm)		Pipe Material
			250	300	
Railway St	1+153	Lt	2		PVC
Railway St	1+185	Lt	23		PVC
Railway St	1+222	Lt	36		PVC
Railway St	1+256	Rt	35		PVC
Total			**96**		

Quantities - Removals										
Location & Position	From Station	To Station	Side	Length	Removal of Asphalt Pavement, Full Depth (m^2)	Removal of Asphalt Pavement, Partial Depth - 50mm (m^2)	Removal of Concrete Curb and Sidewalk (m^2)	Removal of Steel Beam Guide Rail (m)	Removal of Catch Basin (each)	Removal of Pipes and Culverts (m)
Lakeview Mainline	0+100	0+180	Lt	80	350	40		15		
Lakeview Mainline	0+100	0+180	Rt	80	492	40	94.5	15		
Lakeview Mainline	0+180	0+300	Lt	120	923					
Lakeview Mainline	0+180	0+300	Rt	120	840		180	40		
Lakeview Mainline	0+300	0+420	Lt	120	840					
Lakeview Mainline	0+300	0+420	Rt	120	1220		159	95		
Lakeview Mainline	0+420	0+540	Lt	120	840					
Lakeview Mainline	0+420	0+540	Rt	120	908		124.5	88		
Lakeview Mainline	0+540	0+660	Lt	120	882					
Lakeview Mainline	0+540	0+660	Rt	120	913		157.5			
Lakeview Mainline	0+660	0+790	Lt	130	882					
Lakeview Mainline	0+660	0+790	Rt	130	880		195			
Lakeview Mainline	0+790	0+920	Lt	130	1040			24		
Lakeview Mainline	0+790	0+920	Rt	130	1040		170.5		5	62
Lakeview Mainline	0+920	1+031	Lt	105	420	30		105		
Lakeview Mainline	0+920	1+031	Rt	105	525	30	157.5		1	
Nethercutt Dr					1441	418	216			
Totals					**14436**	**558**	**1455**	**382**	**6**	**62**

Quantities - Removals							
Location & Position	From Station	To Station	Side	Length	Removal of Asphalt Pavement, Full Depth (m^2)	Removal of Asphalt Pavement, Partial Depth - 50mm (m^2)	Removal of Pipes and Culverts (m)
Railway Mainline	1+033	1+140	Lt	107	443	2	
Railway Mainline	1+033	1+140	Rt	107	570	2	
Railway Mainline	1+140	1+260	Lt	120	480		24
Railway Mainline	1+140	1+260	Rt	120	480		
Railway Mainline	1+260	1+320	Lt	60	240		
Railway Mainline	1+260	1+320	Rt	60	240		
Totals					**2453**	**4**	**24**

Location/Description	Stationing	Offset	Side	Type/Description	Code	Support	Rem	New
Existing Sign	167.122	8.56	RT	Hidden Intersection	N/A	Metal	X	
Proposed Sign	166.346	8.6	RT	Intersection Sign	WA-13L	Metal		X
Existing Sign	194.043	6.567	RT	Chevron	Wa-9	Metal	X	
Proposed Sign	194.062	8.6	RT	Chevron	Wa-9	Metal		X
Existing Sign	220.951	6.497	RT	Chevron	Wa-9	Metal	X	
Proposed Sign	220.951	8.6	RT	Chevron	Wa-9	Metal		X
Existing Sign	247.224	6.943	RT	Chevron	Wa-9	Metal	X	
Proposed Sign	247.224	8.6	RT	Chevron	Wa-9	Metal		X
Existing Sign	281.204	7.097	RT	Chevron	Wa-9	Metal	X	
Proposed Sign	281.204	8.6	RT	Chevron	Wa-9	Metal		X
Existing Sign	299.776	6.846	RT	Chevron	Wa-9	Metal	X	
Proposed Sign	299.776	8.6	RT	Chevron	Wa-9	Metal		X
Existing Sign	-	-	RT	Chevron	Wa-9	Metal	X	
Proposed Sign	329.21	8.6	RT	Chevron	Wa-9	Metal		X
Existing Sign	-	-	RT	Chevron	Wa-9	Metal	X	
Proposed Sign	358.336	8.6	RT	Chevron	Wa-9	Metal		X
Existing Sign	-	-	RT	Chevron	Wa-9	Metal	X	
Proposed Sign	386.939	8.6	RT	Chevron	Wa-9	Metal		X
Existing Sign	412.913	9.74	RT	Chevron	Wa-9	Metal	X	
Proposed Sign	412.913	8.6	RT	Chevron	Wa-9	Metal		X
Existing Sign	-	-	RT	Chevron	Wa-9	Metal	X	
Proposed Sign	453.971	5.325	RT	Chevron	Wa-9	Metal		X
Existing Sign	-	-	RT	Max Speed Sign (50)	Rb-1A	Metal	X	
Proposed Sign	458.814	5.325	RT	Max Speed Sign (50)	Rb-1A	Metal		X
Existing Sign	773	-	RT	Hospital Marker	M401	Metal	X	
				Keep Right Sign	-	Metal	X	
				Right Sign	-	Metal	X	

Location/Description	Stationing	Offset	Side	Type/Description	Code	Support	Rem	New
Proposed Sign	773.362	7.737		Hospital Marker	M401	Metal		X
				Keep Right Sign	Rb-25t	Metal		X
				Right Sign	M301 (OTM) / IS-6R (TAC)	Metal		X
Existing Sign	823.619	11.07	RT	both direction)	Wa-33LR	Metal	X	
Proposed Sign	826.301	11.9	RT	both direction)	Wa-33LR	Metal		X
Proposed Sign	826.834	19.62	RT	Shared Pathway	Rb-71	Metal		X
Existing Sign	824.787	4.109	RT	ONE direction-LEFT)	Wa-33L	Metal	X	
				KEEP RIGHT SIGN	Rb-25R	Metal	X	
Proposed Sign	774.873	0.75	RT	ONE direction-LEFT)	Wa-33L	Metal		X
				KEEP RIGHT SIGN	Rb-25R	Metal		X
Proposed Sign	843.477	11.15	RT	STOP HERE ON RED SIG	Rb-78	Metal		X
Proposed Sign	845.743	16.27	RT	(Double sided)	G216	Metal		X
Existing Sign	864.184	4.985	RT	ONE direction-LEFT)	Wa-33L	Metal	X	
				KEEP RIGHT SIGN	Rb-25R	Metal	X	
Proposed Sign	864.964	4.5	RT	ONE direction-LEFT)	Wa-33L	Metal		X
				KEEP RIGHT SIGN	Rb-25R	Metal		X
Existing Sign	924.575	13.17	RT	YIELD Sign	Ra-2	Metal	X	
				YIELD tab Sign	Ra-2t	Metal	X	
				DO NOT ENTER	Rb-19	Metal	X	
				DO NOT ENTER Tab Sig	Rb-19t	Metal	X	
Proposed Sign	889.658	11.42	RT	YIELD Sign	Ra-2	Metal		X
				YIELD tab Sign	Ra-2t	Metal		X
	946.589	6.733	RT	DO NOT ENTER	Rb-19	Metal		X
				DO NOT ENTER Tab Sig	Rb-19t	Metal		X
				Max Speed Sign (50)	Rb-1A	Metal		

Location/Description	Stationing	Offset	Side	Type/Description	Code	Support	Rem	New
Proposed Sign	1003.731	7.078	LT	ONE direction-Right)	Wa-33R	Metal		X
Sign	1001.203	6.767	LT	Shared Pathway	Rb-71	Metal		X
Existing Sign	-	-	LT	Thorugh Traffic Keep Ri	Rb-27	Metal	X	
Proposed Sign	955.66	7.1	LT	Right	Rb-27	Metal		X
Existing Sign	930.66	7.145	LT	Hospital Marker	M401	Metal	X	
				Left Arrow	-	-	X	
Proposed Sign	935.66	7.1	LT	Hospital Marker	M401	Metal		X
				Left Arrow	IS-5L	-		X
Existing Sign	893.408	4.904	RT	ONE direction-LEFT)	Wa-33L	Metal	X	
				KEEP RIGHT SIGN	Rb-25R	Metal	X	
Proposed Sign	942.518	1.49	RT	ONE direction-LEFT)	Wa-33L	Metal		X
				KEEP RIGHT SIGN	Rb-25R	Metal		X
Proposed Sign	884.332	7.1	LT	Reserved Bicycle Lane	Rb-84A	Metal		X
Existing Sign	838.667	4.366	RT	ONE direction-LEFT)	Wa-33L	Metal	X	
				KEEP RIGHT SIGN	Rb-25R	Metal	X	
Proposed Sign	842.562	4.478	RT	ONE direction-LEFT)	Wa-33L	Metal		X
				KEEP RIGHT SIGN	Rb-25R	Metal		X
Existing Sign	-	-	LT	Max Speed Sign (50)	Rb-1A	Metal	X	
Proposed Sign	812.176	7.1	LT	Max Speed Sign (50)	Rb-1A	Metal		X
Existing Sign	494.382	6.778	LT	Truck entrance Sign	Wc-8R	Metal	X	
Proposed Sign	496.923	7.1	LT	Truck entrance Sign	Wc-8R	Metal		X
Proposed Sign	377.922	6.1	LT	Object Marker Sign (ONE direction-Right)	Wa-33R	Metal		X
Existing Sign	363.033	7.315	LT	Hidden Intersection	N/A	Metal	X	
Proposed Sign	366.156	7.1	LT	Intersection Sign	WA-13L	Metal		X

Location/Description	Stationing	Offset	Side	Type/Description	Code	Support	Rem	New
Existing Sign	284.489	7.337	LT	Truck entrance Sign	Wc-8R	Metal	X	
Proposed Sign	286.546	7.1	LT	Truck entrance Sign	Wc-8R	Metal		X
Existing Sign	252.055	7.29	LT	sign	-	Metal	X	
Proposed Sign	252.055	7.29	LT	sign	-	Metal		X
Proposed Sign	131.983	6.585	LT	Object Marker Sign (ONE direction-Right)	Wa-33R	Metal		X
PR-NETHERCUT DRIVE								
Existing Sign	61.887	13.13	LT	TAB SIGN	Ra-2 and Ra 2t	Metal	X	
Proposed Sign	70.299	11.68	LT	TAB SIGN	Ra-2 and Ra 2t	Metal		X
Proposed Sign	70.299	11.68	LT	DO NOT ENTER	Rb-19	Metal		X
Existing Sign	83.507	8.741	LT	NETHERCUTT DR SIGN	G216	Metal	X	
Existing Sign	67.899	5.945	RT	both direction)	Wa-33LR	Metal	X	
Proposed Sign	63.953	6.213	RT	both direction)	Wa-33LR	Metal		X
Existing Sign	86.066	4.773	RT	STOP HERE ON RED SIG	Rb-78	Metal	X	
Proposed Sign	858.168	17.16	RT	STOP HERE ON RED SIG	Rb-78	Metal		X
	872.354	25.25		Shared Pathway	Rb-71	Metal		X
TOTAL							40	49

Quantities - Pavement Markings									
Location and Position	From Station	To Station	Length (m)	Solid Yellow (10 cm)	Solid LT White (10 cm)	Solid RT White (10 cm)	Broken 3/3 White (10 cm)	Stop Blocks (60 cm) (m)	Pavement Marking Symbols (each)
Lakeview Mainline	0+100	0+180	80	80	80	80			2
Lakeview Mainline	0+180	0+300	120	120	120	120			4
Lakeview Mainline	0+300	0+420	120	120	120	120			4
Lakeview Mainline	0+420	0+540	120	120	120	120			4
Lakeview Mainline	0+540	0+660	120	120	120	120			4
Lakeview Mainline	0+660	0+790	130	192	130	130			4
Lakeview Mainline	0+790	0+920	130	223	130	86		12	9
Lakeview Mainline	0+920	1+031	111	176	111	111			6
Nethercutt Drive				74		832	176	5	5
Subtotals				1225	931	1719	88		
				Yellow Totals (m)	White Totals (m)				
				1225	2738				
Totals				**3963**				**17**	**42**

Quantities - Pavement Markings				
Location and Position	From Station	To Station	Length (m)	Solid Yellow (10 cm)
Railway Mainline	1+033	1+140	107	107
Railway Mainline	1+140	1+260	120	120
Railway Mainline	1+260	1+320	60	60
Subtotals				287
				Yellow Totals (m)
				287
Totals				**287**

Quantities - Guide Rail						
Location & Position	Start Station	End Station	Side	Install Steel Beam Guide Rail, OPSD 912.162 (m)	Install Steel Beam Guide Rail, OPSD 912.188 (m)	Install Steel Beam Energy Attenuating Terminal, OPSD 922.165 (each)
Lakeview Mainline	0+100	0+180	Lt			1
Lakeview Mainline	0+100	0+180	Rt			1
Lakeview Mainline	0+180	0+300	Lt	13		1
Lakeview Mainline	0+180	0+300	Rt			
Lakeview Mainline	0+300	0+420	Lt	61		1
Lakeview Mainline	0+300	0+420	Rt			
Lakeview Mainline	0+420	0+540	Lt			
Lakeview Mainline	0+420	0+540	Rt		57	2
Lakeview Mainline	0+540	0+660	Lt			
Lakeview Mainline	0+540	0+660	Rt			
Lakeview Mainline	0+660	0+790	Lt			
Lakeview Mainline	0+660	0+790	Rt			
Lakeview Mainline	0+790	0+920	Lt			
Lakeview Mainline	0+790	0+920	Rt			
Lakeview Mainline	0+920	1+025	Lt		5	1
Lakeview Mainline	0+920	1+025	Rt			1
Sub Totals				**74**	**62**	**8**
Totals				**136**		

Quantities - Erosion and Sediment Control							
Location & Position	From Station	To Station	Side	Length	Topsoil - 50mm Depth (m2)	Sod (m2)	Rip Rap R-10 (m2)
Lakeview Mainline	0+100	0+180	Lt	80	192	192	
Lakeview Mainline	0+100	0+180	Rt	80	151	151	
Lakeview Mainline	0+180	0+300	Lt	120	271	271	
Lakeview Mainline	0+180	0+300	Rt	120	288	288	
Lakeview Mainline	0+300	0+420	Lt	120	288	288	60
Lakeview Mainline	0+300	0+420	Rt	120	254	254	
Lakeview Mainline	0+420	0+540	Lt	120	144	144	
Lakeview Mainline	0+420	0+540	Rt	120	199	199	
Lakeview Mainline	0+540	0+660	Lt	120	161	161	
Lakeview Mainline	0+540	0+660	Rt	120	252	252	
Lakeview Mainline	0+660	0+790	Lt	130	144	144	60
Lakeview Mainline	0+660	0+790	Rt	130	312	312	
Lakeview Mainline	0+790	0+920	Lt	130	312	312	
Lakeview Mainline	0+790	0+920	Rt	130	211	211	
Lakeview Mainline	0+920	1+025	Lt	105	252	252	
Lakeview Mainline	0+920	1+025	Rt	105	252	252	
Nethercutt Dr					168	168	
Totals					**3852**	**3852**	**120**

Quantities - Erosion and Sediment Control							
Location & Position	From Station	To Station	Side	Length	Topsoil - 50mm Depth (m2)	Sod (m2)	Rip Rap R-10 (m2)
Railway Mainline	1+033	1+140	Lt	107	257	257	
Railway Mainline	1+033	1+140	Rt	107	257	257	9
Railway Mainline	1+140	1+260	Lt	120	288	288	
Railway Mainline	1+140	1+260	Rt	120	288	288	
Railway Mainline	1+260	1+320	Lt	60	144	144	
Railway Mainline	1+260	1+320	Rt	60	144	144	
Totals					**1378**	**1378**	**9**