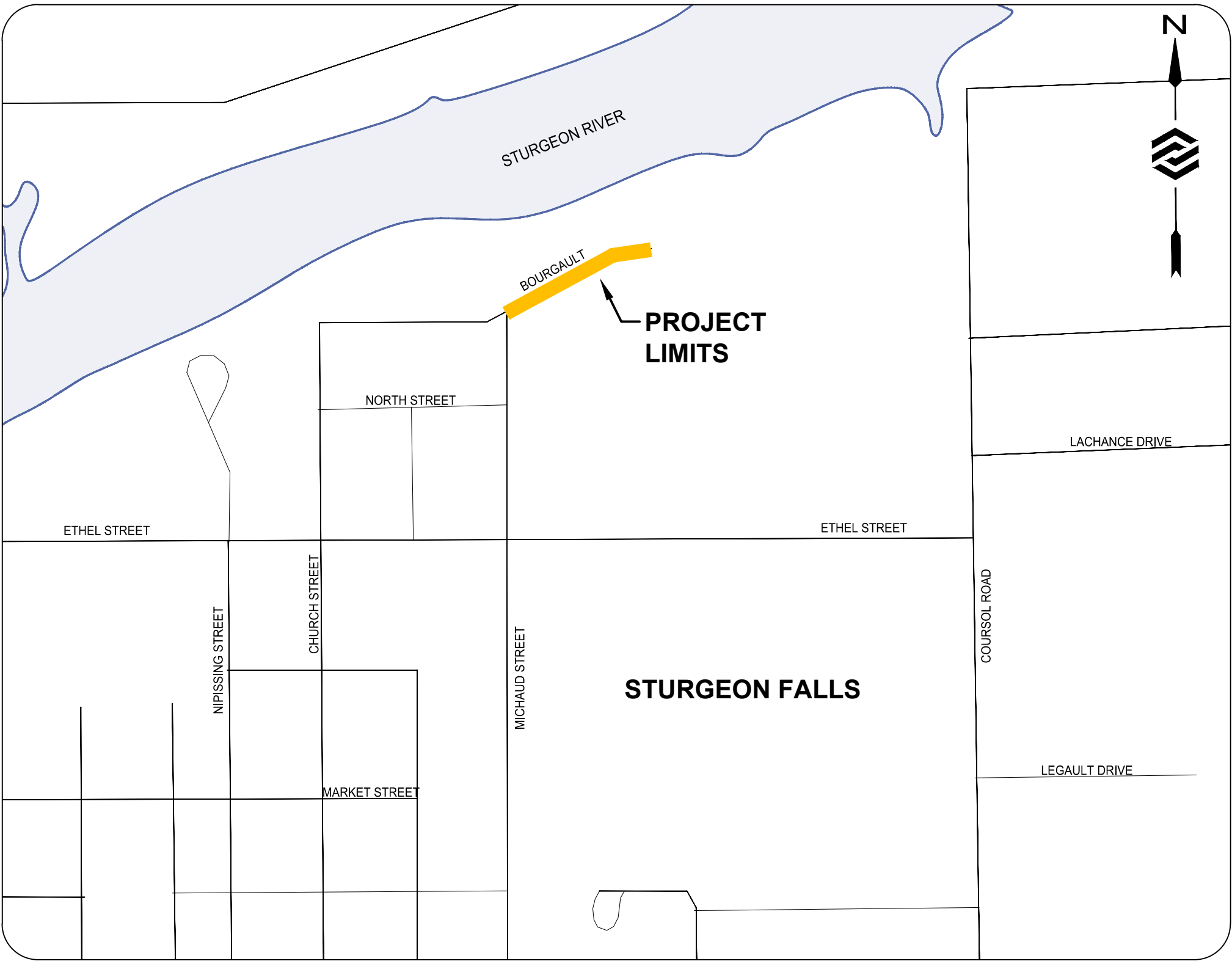


BOURGAULT STREET RECONSTRUCTION

MUNICIPALITY OF WEST NIPISSING
ENGAGE PROJECT No: 25030A
ISSUED FOR TENDER



DRAWING LIST		
SHEET No.	SHEET NAME	SHEET DESCRIPTION
1	SNL	STANDARD NOTES AND LEGEND
2	ECR	EXISTING CONDITIONS AND REMOVALS
3	PP1.1	PLAN AND PROFILE STA: 1+000 TO 1+110
4	PP1.2	PLAN AND PROFILE STA: 1+110 TO 1+205
5	SW1	SURFACE WORKS
6	XS1.1	CROSS SECTIONS STA: 1+000 TO 1+200
7	DT1	DETAILS
8	SAN1	SANITARY SEWER DRAINAGE AREA PLAN
9	ST1	STORM SEWER DRAINAGE AREA PLAN



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West Nipissing Ovest

CLIENT: MUNICIPALITY OF WEST NIPISSING		DRAWN BY: J.BURKE	
PROJECT LOCATION: STURGEON FALLS, ONTARIO		DESIGNED BY: J.BURKE	
DATE: 2025-06-26		APPROVED BY: B.PARSONS	
4.	ISSUED FOR TENDER	JB	2026-01-19
3.	ISSUED FOR 90% REVIEW	JB	2025-11-18
2.	ISSUED FOR 60% REVIEW	JB	2025-09-19
1.	ISSUED FOR 30% REVIEW	JB	2025-08-13
No.	REVISION	BY	DATE

BOURGAULT STREET
RECONSTRUCTION
MUNICIPALITY OF WEST NIPISSING
ENGAGE PROJECT No: 25030A
ISSUED FOR TENDER



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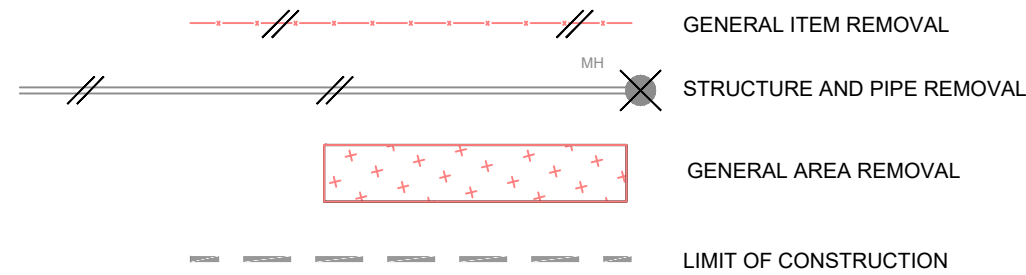
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West Nipissing Ovest

REMOVAL AND ADJUSTMENTS

- (A) APPURTENANCE ADJUSTMENT BY CONTRACTOR (CB,MH,WV etc.)
(B) ADJUSTMENT BY OTHERS
(C) RELOCATE EXISTING STRUCTURE
(E) EXCAVATE/BACKFILL EX. STRUCTURE
(S) REMOVE, SALVAGE AND REINSTALL TO BE EXPOSED BY CONTRACTOR

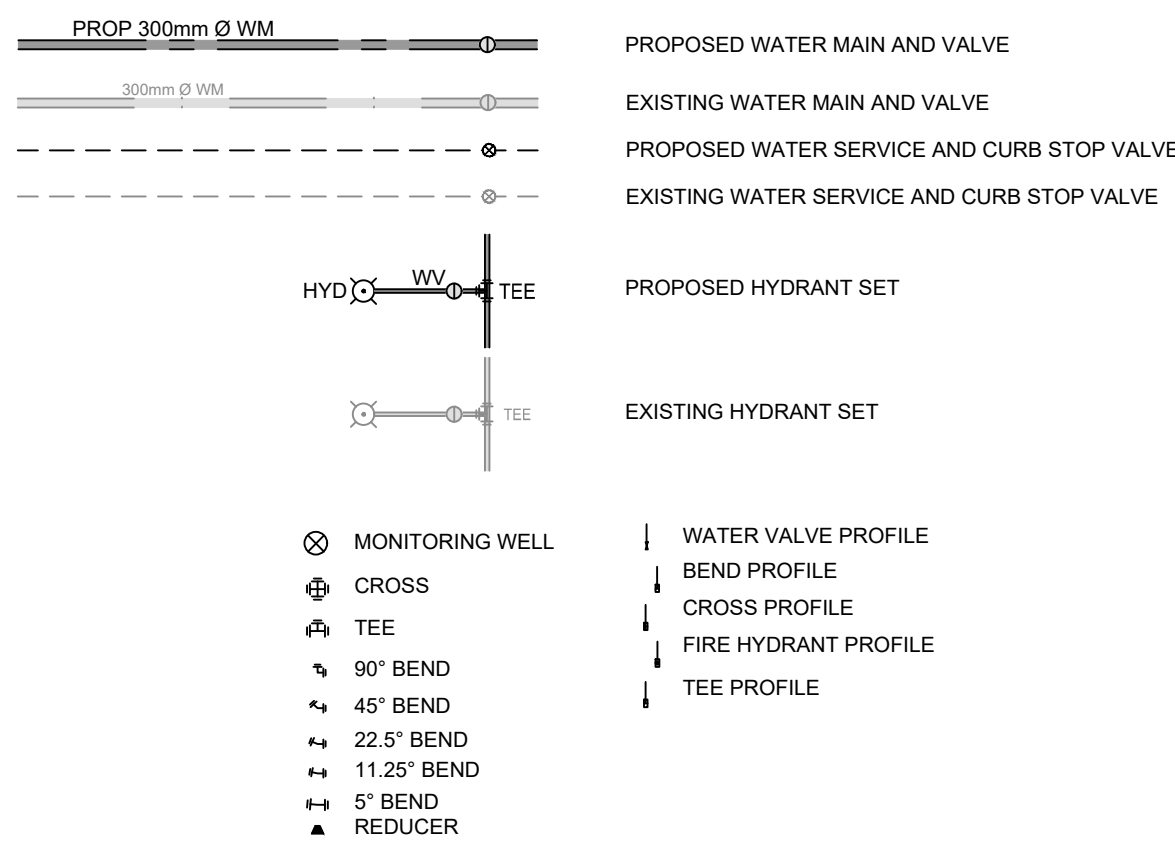


UNDERGROUND SERVICES

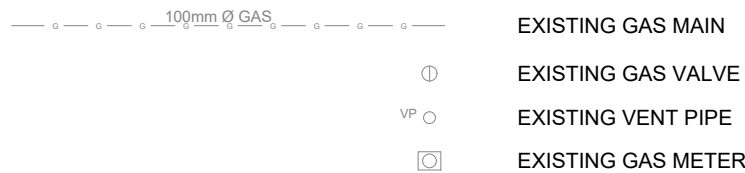
SEWERS:



WATER:

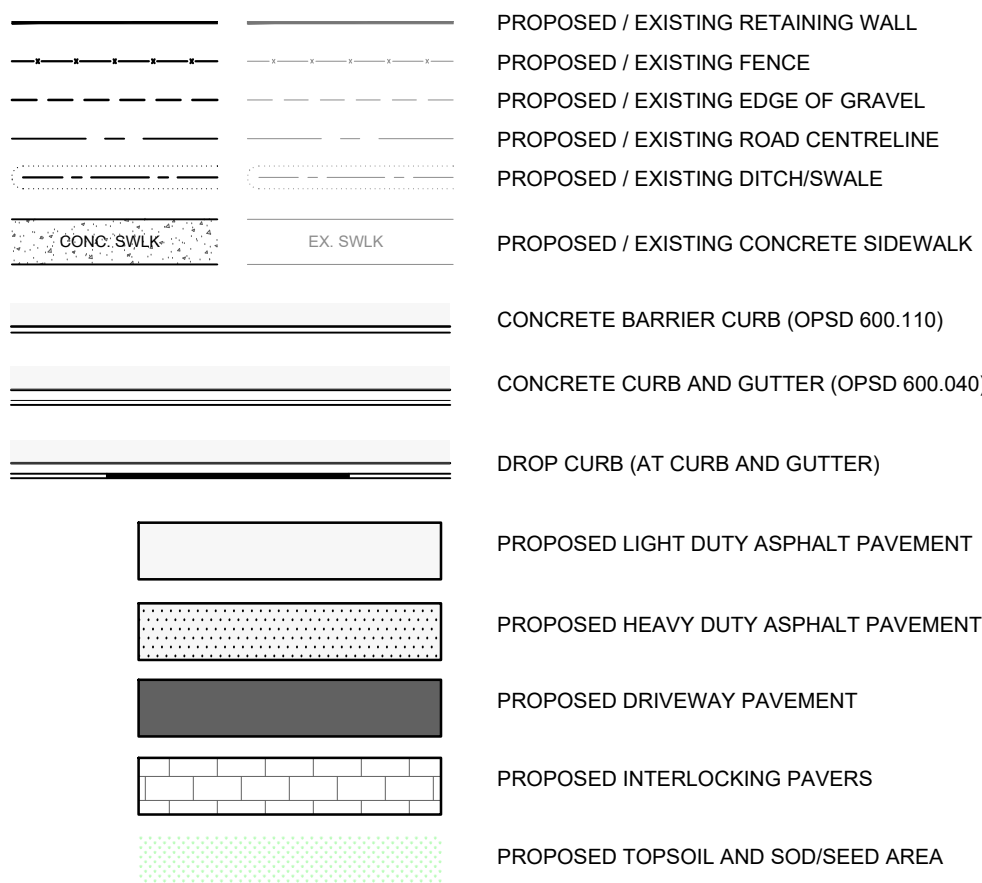


NATURAL GAS:

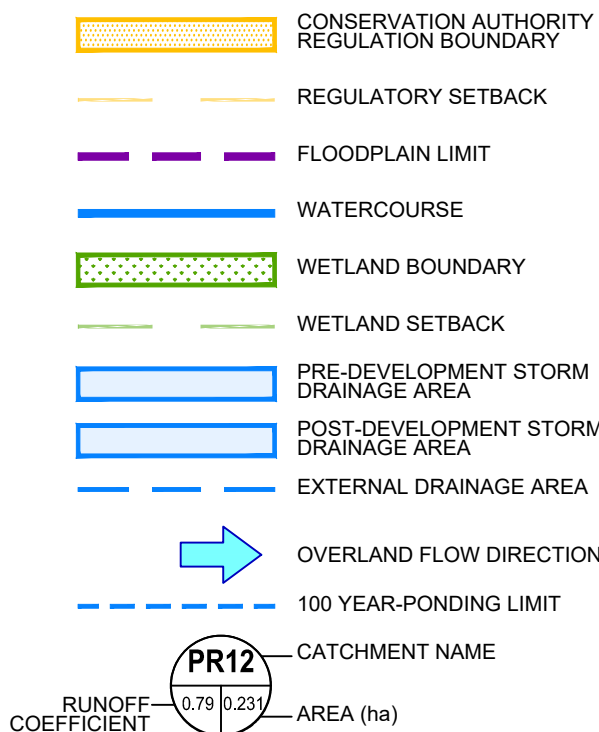


LEGEND

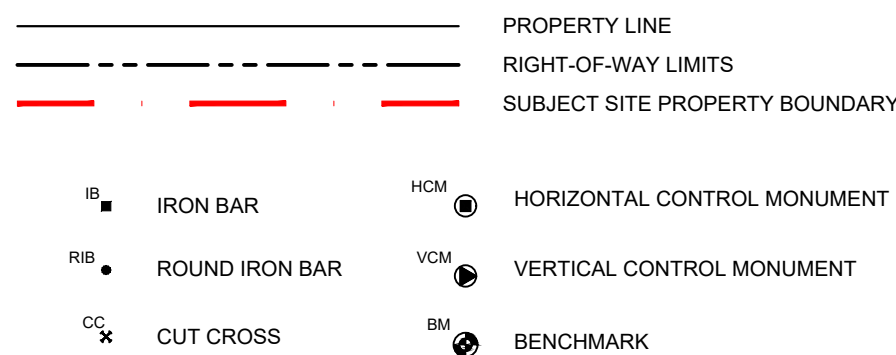
ROAD SURFACE FEATURES:



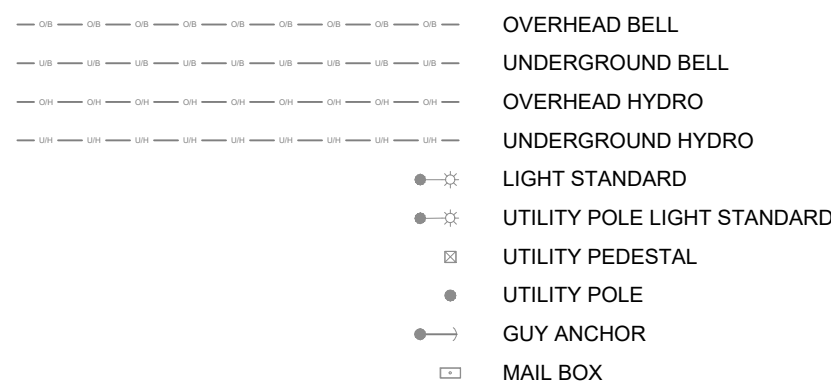
WATER RESOURCES AND ENVIRONMENTAL FEATURES:



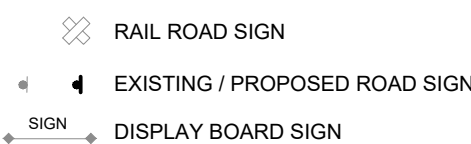
LEGAL AND SURVEY CONTROL:



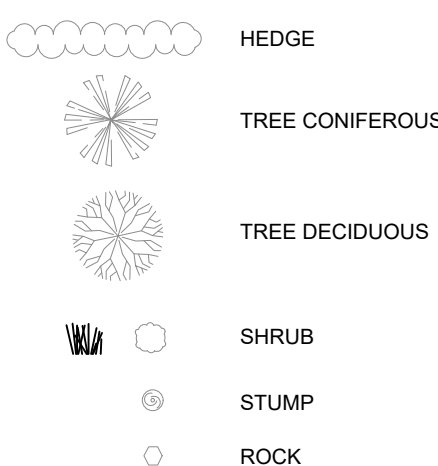
COMMUNICATIONS/ELECTRICAL UTILITIES:



SIGNAGE:



VEGETATION:



GENERAL:

- ALL CONSTRUCTION AND MATERIALS TO BE IN ACCORDANCE WITH:
 - ONTARIO PROVINCIAL STANDARD DRAWINGS & SPECIFICATIONS
 - MUNICIPALITY OF WEST NIPISSING STANDARDS AND SPECIFICATIONS
 - APPLICABLE CONTRACT DOCUMENTS AND ALL SPECIFICATIONS REFERENCED HEREIN.
- THE CONTRACTOR SHALL CONSTRUCT ALL WORK IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT, HEALTH AND SAFETY REGULATIONS FOR CONSTRUCTION PROJECTS.
- THE CONTRACTOR SHALL RESTORE OR REPLACE DAMAGED SERVICES TO EXISTING OR BETTER CONDITION.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EXISTING OR BETTER CONDITION, OR PER THE ENGINEERING AND LANDSCAPE SPECIFICATIONS REFERENCED HEREIN.
- THE CONTRACTOR SHALL COORDINATE AND PAY FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES IN ACCORDANCE WITH THE ONTARIO TRAFFIC MANUAL, BOOK 7, TEMPORARY CONDITIONS.
- THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIALS IN ACCORDANCE WITH THE MINISTRY OF THE ENVIRONMENT GUIDELINES AND LOCAL MUNICIPAL BYLAWS.
- WHERE UTILITIES ARE SHOWN ON THE CONTRACT DRAWINGS, THEIR LOCATION IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO COMPLETE THE WORK INCLUDING ROAD CUT PERMITS, OCCUPANCY PERMITS, ENCROACHMENT AGREEMENTS.
- ANY UTILITY POLES THAT MAY BE UNDERMINED BY THE CONSTRUCTION ACTIVITY ARE TO BE BRACED. THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS TO HAVE THE POLES BRACED IN ACCORDANCE WITH THE APPROPRIATE UTILITY REQUIREMENTS. THE COST FOR THIS WORK IS INCLUDED IN THE UNIT PRICES FOR THE WORK ITEMS AFFECTED.
- ALL EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED ON THE CONTRACT DRAWINGS ARE TO BE IN PLACE PRIOR TO THE START OF CONSTRUCTION.
- ACCESS TO ALL PRIVATE PROPERTIES FRONTING THE CONSTRUCTION SHALL BE MAINTAINED AT ALL TIMES. TEMPORARY ACCESS RESTRICTIONS WILL ONLY BE PERMITTED WHERE REQUIRED TO FACILITATE UNDERGROUND SERVICING, ASPHALT AND CONCRETE PLACEMENT. THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO MUNICIPALITY OF WEST NIPISSING AND THE AFFECTED PROPERTY OWNERS PRIOR TO ACCESS INTERRUPTION.
- ALL PROPERTY BARS DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT THE CONCLUSION OF THE CONTRACT, AT THEIR EXPENSE.
- ALL MANHOLE AND CATCHBASIN FRAMES AND GRATES WITH THE TRAVELLED PORTION OF THE ROAD SHALL BE SET TO BASE ASPHALT ELEVATION AND RAISED PRIOR TO PLACEMENT OF SURFACE ASPHALT. ALL MANHOLE AND CATCHBASIN FRAMES AND GRATES IN THE BOULEVARD SHALL BE SET TO FINAL GRADE.
- ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- EXISTING SIGNAGE WITHIN THE ROAD ALLOWANCE SHALL BE REMOVED AND SALVAGED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND REINSTALLED UPON COMPLETION. REGULATORY SIGNAGE SHALL REMAIN IN PLACE AT ALL TIMES.

WATERMAIN:

- THE CONTRACTOR SHALL PROVIDE 48HR NOTICE TO THE CONTRACT ADMINISTRATOR PRIOR TO COMMENCING WATERMAIN CONSTRUCTION.
- ONLY REPRESENTATIVES OF THE MUNICIPALITY ARE AUTHORIZED TO OPERATE VALVES OR HYDRANTS ON THE EXISTING WATER DISTRIBUTION SYSTEM.
- THE CONTRACTOR SHALL INSTALL TRACER WIRE ON ALL NEW PVC WATERMAIN.
- THE CONTRACTOR SHALL INSTALL CATHODIC PROTECTION AS PER OPSD 1109.0110.
- THE CONTRACTOR SHALL INSTALL RETAINING GLAND RINGS ON ALL WATERMAIN FITTINGS AND CONNECTIONS WHERE THRUST BLOCKS CANNOT BE CONSTRUCTED ON SOLID GROUND.
- THE CONTRACTOR SHALL INSTALL BEDDING AND BACKFILL AS PER OPSD 802.010.
- THE CONTRACTOR SHALL INSTALL ALL WATERMAIN AND SERVICES AT A MINIMUM DEPTH OF 2.20 METRES FROM THE PROPOSED FINISH GRADE TO THE TOP OF PIPE.
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER OF 0.50 METRES WHEN WATERMAIN IS BELOW OR 0.15 METRES WHEN WATERMAIN IS ABOVE.
- THE CONTRACTOR SHALL INSTALL WATER SERVICES AS PER OPSD 1104.0100, AND AT RIGHT ANGLES TO THE WATERMAIN WHERE POSSIBLE.
- THE CONTRACTOR SHALL INSTALL 19mm Ø POLYETHYLENE SERVICE CONNECTIONS (IPEX SERIES 160 GOLD STRIP OR APPROVED EQUIVALENT).
- THE CONTRACTOR SHALL INSTALL WATER SERVICE BOXES ON ALL WATER SERVICES. WATER SERVICE BOXES SHALL BE LOCATED BETWEEN PROPERTY LINE AND 0.30 METRES TOWARD THE CENTERLINE OF ROAD. SERVICE BOXES SHALL UNDER NO CIRCUMSTANCES BE LOCATED ON PRIVATE PROPERTY.
- THE CONTRACTOR SHALL INSTALL THRUST BLOCKS FOR VERTICAL BENDS AS PER OPSD 1103.020. THE CONTRACTOR SHALL INSTALL THRUST BLOCKS FOR HORIZONTAL BENDS AS PER OPSD 1103.010.
- THE CONTRACTOR SHALL INSTALL HYDRANTS AS PER OPSD 1105.010.
- THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE CONTRACT ADMINISTRATOR PRIOR TO CONDUCTING WATERMAIN TESTING.
- THE CONTRACTOR SHALL PROVIDE ALL WATERMAIN TESTING RESULTS (INCLUDING CHLORINATION, BACTERIOLOGICAL, PRESSURE AND FLOW) IN ACCORDANCE WITH TOWNSHIP SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE 2 COPIES OF ALL TEST RESULTS.
- THE CONTRACTOR SHALL CONFIRM WATER SERVICE WHERE NONE ARE IDENTIFIED.

SURVEY:

- EXISTING UNDERGROUND SERVICES, UTILITIES, AND TOPOGRAPHIC INFORMATION IS BASED UPON:
 - TOPOGRAPHIC SURVEY PROVIDED BY ENGAGE ENGINEERING.
 - AS CONSTRUCTED INFORMATION PROVIDED BY WEST NIPISSING
- THE CONTRACTOR SHALL PROVIDE DETAILED LAYOUT FOR THE WORK INCLUDING CALCULATIONS OF LAYOUT DIMENSIONS AND ELEVATIONS.
- THE CONTRACTOR SHALL PROVIDE AN AUTOCAD AND ACCOMPANYING HARD COPY OF THE AS CONSTRUCTED WORKS. THE DRAWINGS SHALL CONVEY ALL UNDERGROUND SERVICING AND INFRASTRUCTURE BASED ON TOPOGRAPHIC SURVEY OF THE WORKS.

STORM SEWER:

- THE CONTRACTOR SHALL INSTALL BEDDING, BACKFILL AND COVER PER ONTARIO PROVINCIAL STANDARD DRAWING (OPSD) 802.010 FOR PVC PIPE.
- THE CONTRACTOR SHALL INSTALL PRECAST CONCRETE MANHOLES AS PER OPSD 701.010, 701.011, 701.021 UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL CONCRETE CATCHBASINS COMPLETE WITH FRAME, GRATE AND 250mm PVC LEAD AS PER OPSD 705.010 UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL CONCRETE DOUBLE CATCHBASINS COMPLETE WITH FRAME, GRATE AND 300mm PVC LEAD AS PER OPSD 705.020, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL DITCH INLET CATCH BASINS COMPLETE WITH FRAME, GRATE AND 300mm PVC LEAD AS PER OPSD 705.030 AND OPSD 403.010, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- ALL CATCHBASINS AND CATCHBASIN MANHOLES SHALL BE PROVIDED WITH INLET PROTECTION AS PER DETAIL 1 ON SHEET 2 IMMEDIATELY AFTER INSTALLATION AND SHALL BE MAINTAINED THROUGH CONSTRUCTION.
- THE CONTRACTOR SHALL PERFORM LEAK AND DEFLECTION TESTING ON ALL STORM SEWERS IN ACCORDANCE WITH OPSS 410.
- THE CONTRACTOR SHALL CLEAN AND PERFORM CCTV INSPECTION ON ALL STORM SEWERS IN ACCORDANCE WITH OPSS 409.
- THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE CONTRACT ADMINISTRATOR PRIOR TO CONDUCTING PIPE LEAK AND DEFLECTION TESTING, CCTV INSPECTIONS AND/OR CLEANING OF THE STORM SEWER.
- PIPE BEDDING, COVER AND BACKFILL SHALL BE IN ACCORDANCE WITH THE OPSD 802.010 FOR FLEXIBLE PIPE AND OPSD 802.030 FOR CONCRETE PIPE AND CSP. BEDDING AND COVER SHALL BE GRANULAR "A" COMPACTED TO 100 % SPDD; BACKFILL SHALL BE NATIVE MATERIAL OR GRANULAR "B", COMPACTED TO 100 % SPDD.
- PVC STORM SEWER SHALL BE SMOOTH WALL, WITH WATER TIGHT BELL AND SPIGOT JOINTS AND SHALL CONFORM TO CSA B-182. ALL CONNECTIONS SHALL BE WITH PRE-MANUFACTURED FITTINGS.
- ALL STORM CATCHBASIN MANHOLES AND ALL CATCHBASINS SHALL HAVE A MINIMUM 0.6m SUMP.
- (PROVISIONAL) THE CONTRACTOR SHALL CONNECT PRIVATE STORM SERVICE TO STORM SEWER WHERE PREVIOUSLY DISCHARGED TO A DITCH.
- THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIALS IN ACCORDANCE WITH THE MINISTRY OF ENVIRONMENT CONSERVATION AND PARKS GUIDELINES, LOCAL MUNICIPAL BYLAWS, AND GEOTECHNICAL AND EXCESS SOILS MANAGEMENT REPORTS.
- ANY CONTRACTOR QUESTIONS REGARDING COMPACTION/ROAD MAKEUP SHALL BE DIRECTED TO THE GEOTECHNICAL ENGINEER.

SANITARY SEWER:

- THE CONTRACTOR SHALL INSTALL BEDDING, BACKFILL AND COVER PER ONTARIO PROVINCIAL STANDARD DRAWING (OPSD) 802.010 FOR PVC PIPE AND SERVICES.
- THE CONTRACTOR SHALL INSTALL PRECAST CONCRETE MANHOLES AS PER OPSD 701.010, 401.010, 404.020, 405.010 AND 405.020, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- ALL SANITARY MANHOLES SHALL BE BENCHED AS PER OPSD 701.021.
- THE CONTRACTOR SHALL INSTALL REPAIR AND RECONNECT ALL EXISTING SANITARY SERVICES. SERVICES SHALL BE 100mm Ø, GREEN IN COLOR AND INSTALLED IN ACCORDANCE WITH OPSD 1006.010. LOCATIONS SHOWN ON PLAN ARE FOR ESTIMATING PURPOSES ONLY (NOT APPROXIMATE) AND WILL NEED TO BE LOCATED DURING SANITARY SEWER REMOVAL.
- ALL SANITARY SERVICES THAT ARE CONNECTED TO MANHOLES SHALL BE BENCHED THE SAME AS MAIN LINE SEWER.
- THE CONTRACTOR SHALL PERFORM AIR AND DEFLECTION TESTING ON ALL SANITARY SEWERS IN ACCORDANCE WITH MUNICIPAL STANDARDS AND OPSS 410 RESPECTIVELY.
- THE CONTRACTOR SHALL CLEAN AND PERFORM CCTV INSPECTION ON ALL SANITARY SEWERS IN ACCORDANCE WITH OPSS 409.
- DEFLECTION TESTING OF ALL FLEXIBLE SANITARY SEWERS SHALL BE COMPLETE IN ACCORDANCE WITH OPSS MUNI 410.07.16.05.
- LEAKAGE TESTING OF ALL SANITARY SEWERS SHALL BE COMPLETED IN ACCORDANCE WITH OPSS MUNI 410.07.16.04. EXFILTRATION TEST.
- THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE CONTRACTOR ADMINISTRATOR PRIOR TO CONDUCTING PIPE AIR AND DEFLECTION TESTING, CCTV INSPECTIONS AND/OR CLEANING OF THE SANITARY SEWER.
- THE CONTRACTOR SHALL PROVIDE 3 COPIES OF PIPE AIR AND DEFLECTION TESTING RESULTS AND CCTV INSPECTION REPORTS.
- THE CONTRACTOR SHALL CONFIRM SANITARY LATERAL WHERE NONE ARE IDENTIFIED.

ROADS AND ENTRANCES

ROADWAY	40mm SP12.5 50mm SP19.0 150mm GRANULAR A 300mm GRANULAR B
ASPHALT ENTRANCES	50mm HL3 150mm GRANULAR A
INTERLOCK ENTRANCES	SALVAGED CONCRETE PAVERS 25mm SAND BEDDING 100mm GRANULAR A
GRAVEL DRIVEWAYS	200mm GRANULAR A

SURVEY
TOPOGRAPHIC SURVEY PROVIDED
BY ENGAGE ENGINEERING.

BENCHMARK
TOP OF LARGE ARM OF FIRE HYDRANT AT SOUTH WEST CORNER OF
INTERSECTION OF CHURCH ST, BOURGAULT ST AND MICHAUD ST

ELEV: 211.94m

NOTES:
ALL RIGHT OF WAY AND PROPERTY LINES ARE APPROXIMATE

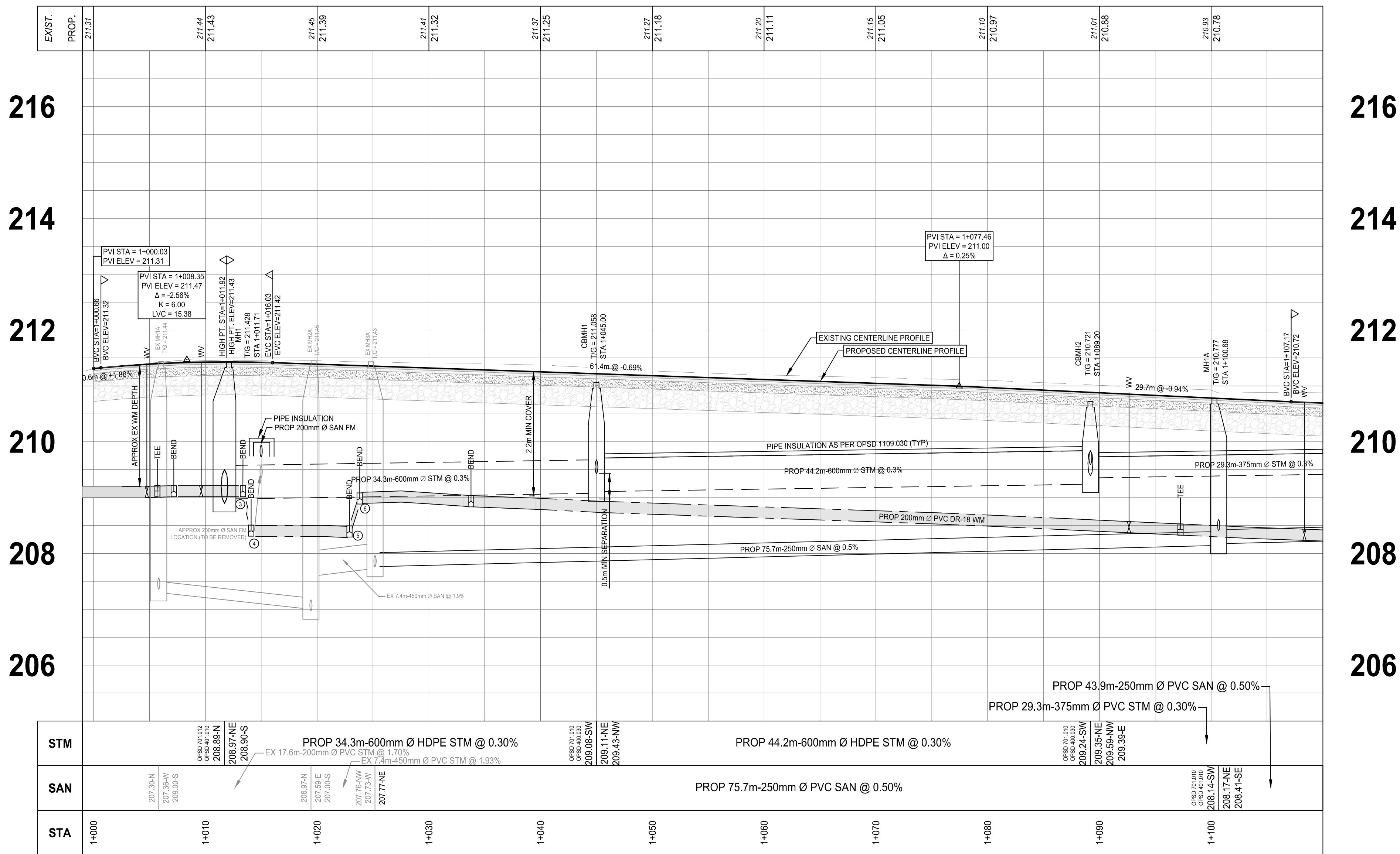
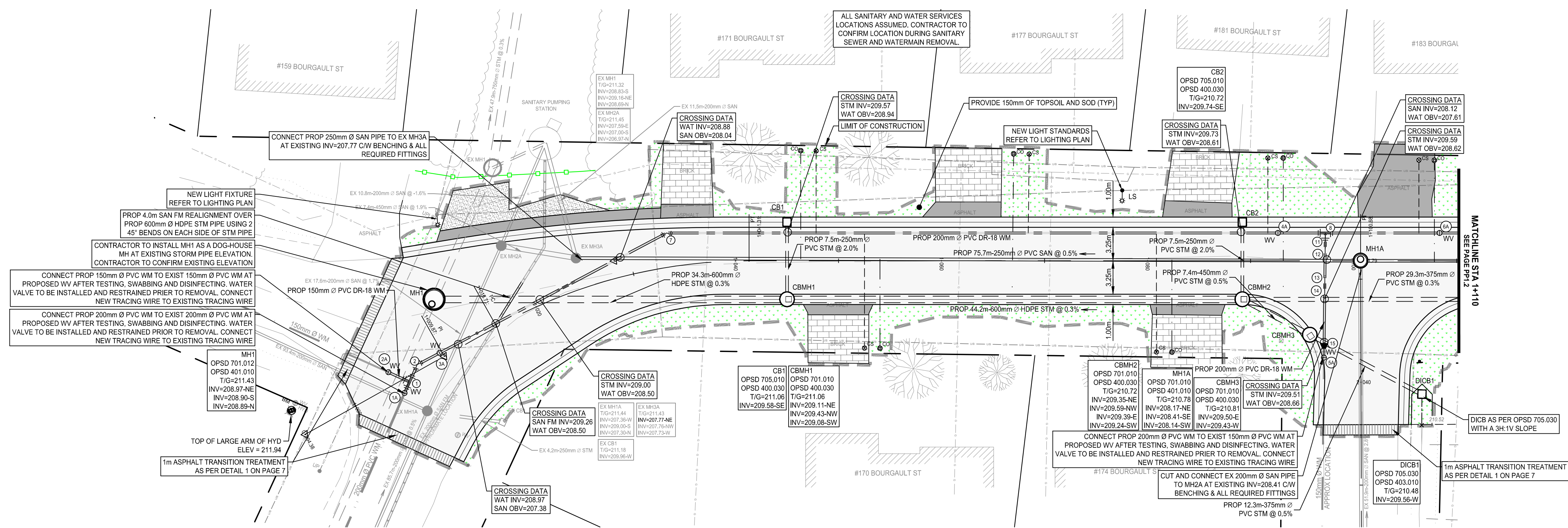


BOURGAULT STREET RECONSTRUCTION

STURGEON FALLS

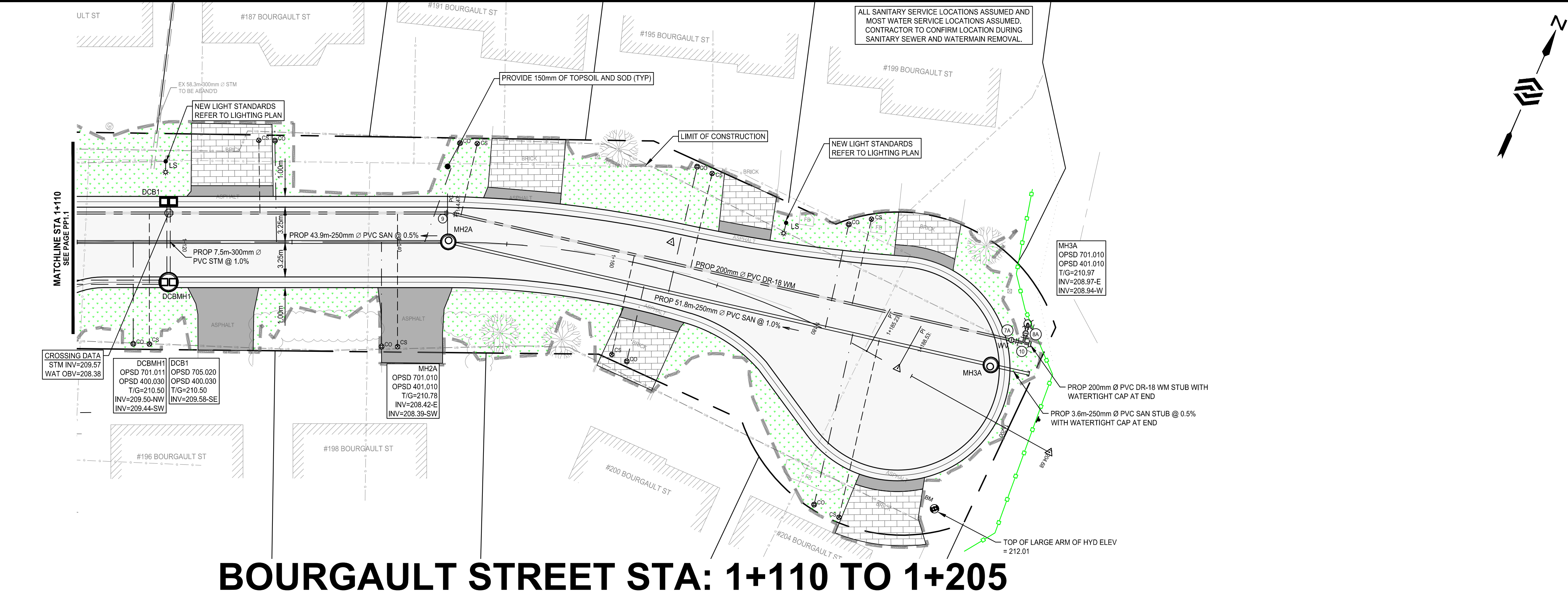
STANDARD NOTES AND LEGEND

MUNICIPALITY OF WEST NIPISSING		
DRAWN BY: J.BURKE	STAMP: B.T. PARSONS 100213434 2025-01-19 PROVINCE OF ONTARIO	
DESIGNED BY: J.BURKE		
APPROVED BY: B. PARSONS		
DATE: 2025-06-26		
SCALE: 1:250H 1:50V		
PROJECT NUMBER: 25030	SHEET NAME: SNL	SHEET: 1 of 9

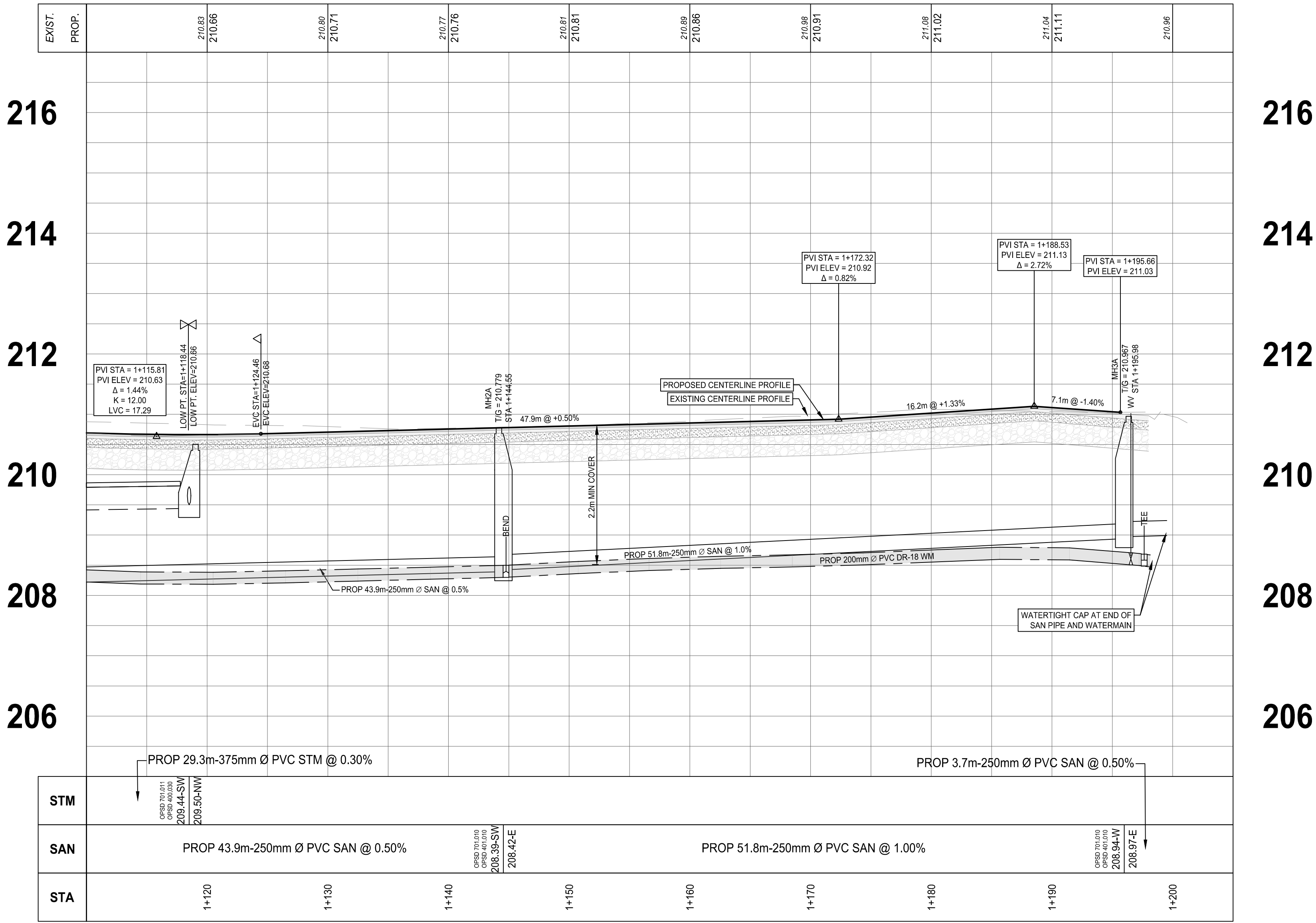


WATERMAIN FITTING DATA TABLE			
ITEM	PART DATA	STATION	TOP OF PIPE
1	TEE (200mm x 200mm x 150mm)	1+005.7	209.22
2	45° ELBOW (200mm)	1+007.2	209.22
3	45° ELBOW (200mm)	1+013.4	209.22
4	45° ELBOW (200mm)	1+014.1	208.51
5	45° ELBOW (200mm)	1+022.9	208.49
6	45° ELBOW (200mm)	1+023.8	209.08
7	30° ELBOW (200mm)	1+033.8	209.03
8	TEE (200mm x 200mm x 200mm)	1+097.3	208.53
9	11° ELBOW (200mm)	1+144.8	208.50
10	TEE (200mm x 200mm x 150mm)	1+197.6	208.68
11	45° ELBOW (200mm)	1+097.3	208.49
12	45° ELBOW (200mm)	1+097.2	207.62
13	45° ELBOW (200mm)	1+097.2	207.62
14	45° ELBOW (200mm)	1+097.2	208.61
15	REDUCER (200mm x 150mm)	2+043.3	208.66
WATERMAIN APPURTENANCE DATA TABLE			
ITEM	PART DATA	STATION	TOP OF PIPE
1A	VALVE AND BOX (200mm)	1+004.8	209.20
2A	VALVE AND BOX (150mm)	1+004.4	209.17
3A	VALVE AND BOX (200mm)	1+009.6	209.22
4A	VALVE AND BOX (200mm)	1+092.7	208.57
5A	VALVE AND BOX (150mm x 150mm)	1+097.1	208.65
6A	VALVE AND BOX (200mm)	1+108.3	208.43
7A	VALVE AND BOX (200mm)	1+196.5	208.71
8A	VALVE AND BOX (150mm)	1+197.4	208.80
9A	ABOVE GROUND HYDRANT	1+197.1	208.77

WATERMAIN FITTING DATA TABLE			
ITEM	PART DATA	STATION	TOP OF PIPE
1	TEE (200mm x 200mm x 150mm)	1+005.7	209.22
2	45° ELBOW (200mm)	1+007.2	209.22
3	45° ELBOW (200mm)	1+013.4	209.22
4	45° ELBOW (200mm)	1+014.1	208.51
5	45° ELBOW (200mm)	1+022.9	208.49
6	45° ELBOW (200mm)	1+023.8	209.08
7	30° ELBOW (200mm)	1+033.8	209.03
8	TEE (200mm x 200mm x 200mm)	1+097.3	208.53
9	11° ELBOW (200mm)	1+144.8	208.50
10	TEE (200mm x 200mm x 150mm)	1+197.6	208.68
11	45° ELBOW (200mm)	1+097.3	208.49
12	45° ELBOW (200mm)	1+097.2	207.62
13	45° ELBOW (200mm)	1+097.2	207.62
14	45° ELBOW (200mm)	1+097.2	208.61
15	REDUCER (200mm x 150mm)	2+043.3	208.66
WATERMAIN APPURTENANCE DATA TABLE			
ITEM	PART DATA	STATION	TOP OF PIPE
1A	VALVE AND BOX (200mm)	1+004.8	209.20
2A	VALVE AND BOX (150mm)	1+004.4	209.17
3A	VALVE AND BOX (200mm)	1+009.6	209.22
4A	VALVE AND BOX (200mm)	1+092.7	208.57
5A	VALVE AND BOX (150mm x 150mm)	1+097.1	208.65
6A	VALVE AND BOX (200mm)	1+108.3	208.43
7A	VALVE AND BOX (200mm)	1+196.5	208.71
8A	VALVE AND BOX (150mm)	1+197.4	208.80
9A	ABOVE GROUND HYDRANT	1+197.1	208.77



BOURGAULT STREET STA: 1+110 TO 1+205



SURVEY
TOPOGRAPHIC SURVEY PROVIDED
BY ENGAGE ENGINEERING.

BENCHMARK
TOP OF LARGE ARM OF FIRE HYDRANT AT SOUTH EAST SIDE OF THE
EAST CUL-DE-SAC.

ELEV: 212.01

NOTES:
ALL RIGHT OF WAY AND PROPERTY LINES ARE APPROXIMATE

No.	REVISION	BY	DATE
4.	ISSUED FOR TENDER	JB	2026-01-19
3.	ISSUED FOR 90% REVIEW	JB	2025-11-18
2.	ISSUED FOR 60% REVIEW	JB	2025-09-19
1.	ISSUED FOR 30% REVIEW	JB	2025-08-13



BOURGAULT STREET RECONSTRUCTION

MUNICIPALITY OF WEST NIPISSING

PLAN AND PROFILE STA: 1+110 TO 1+205

DRAWN BY: J. BURKE	STAMP:
DESIGNED BY: J. BURKE	
APPROVED BY: B. PARSONS	
DATE: 2025-06-26	
SCALE: 1:250H 1:50V	
PROJECT NUMBER: 25030	SHEET NAME: PP1.2
	SHEET: 4 of 9

25030 - SW1
Date: Jan 18, 2025 - 1:55 pm
Plotted by: J.Burke
Filename: S:\01 - Projects\25030\25030 - West Nipissing\02 Design\01 - Current Drawings\01 - Bourgaault\25030 - SW1.dwg



SURVEY
TOPOGRAPHIC SURVEY PROVIDED
BY ENGAGE ENGINEERING.

BENCHMARK
TOP OF LARGE ARM OF FIRE HYDRANT AT SOUTH WEST CORNER OF
INTERSECTION OF CHURCH ST, BOURGAULT ST AND MICHAUD ST

ELEV: 211.94m

NOTES:
ALL RIGHT OF WAY AND PROPERTY LINES ARE APPROXIMATE

4.	ISSUED FOR TENDER	JB	2025-01-19
3.	ISSUED FOR 90% REVIEW	JB	2025-11-18
2.	ISSUED FOR 60% REVIEW	JB	2025-09-19
1.	ISSUED FOR 30% REVIEW	JB	2025-08-13
No.	REVISION	BY	DATE

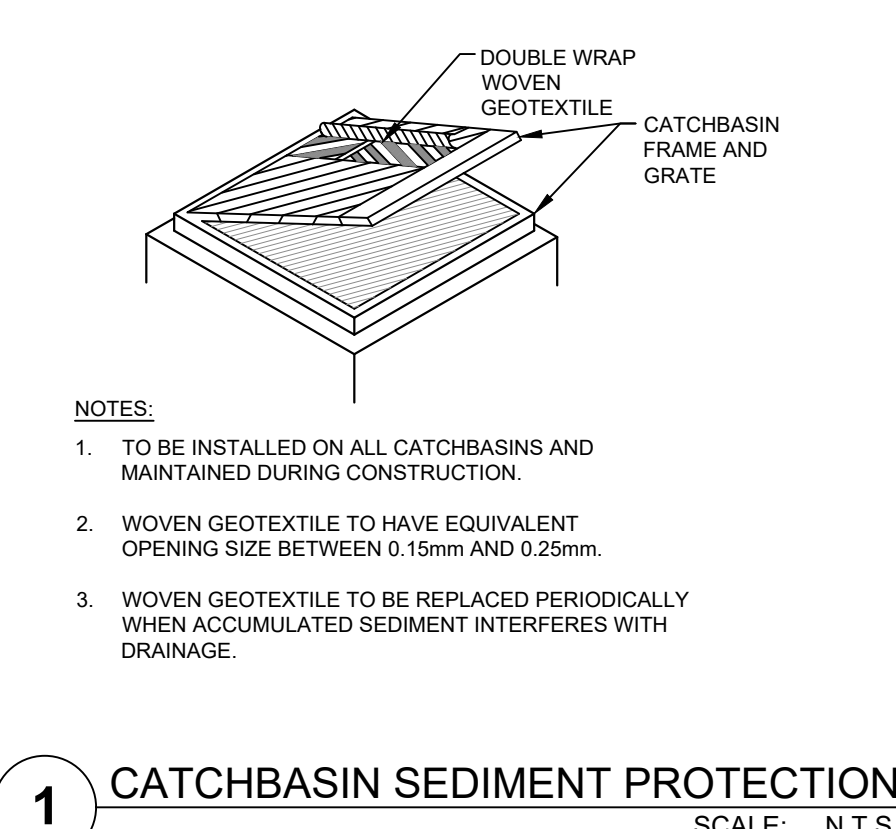


BOURGAULT STREET RECONSTRUCTION

STURGEON FALLS

SURFACE WORKS

DRAWN BY: J.BURKE			STAMP: 		
DESIGNED BY: J.BURKE					
APPROVED BY: B.PARSONS					
DATE: 2025-06-26					
SCALE: 1:300					
PROJECT NUMBER: 25030		SHEET NAME: SW1		SHEET: 5 OF 9	



1 CATCHBASIN SEDIMENT PROTECTION

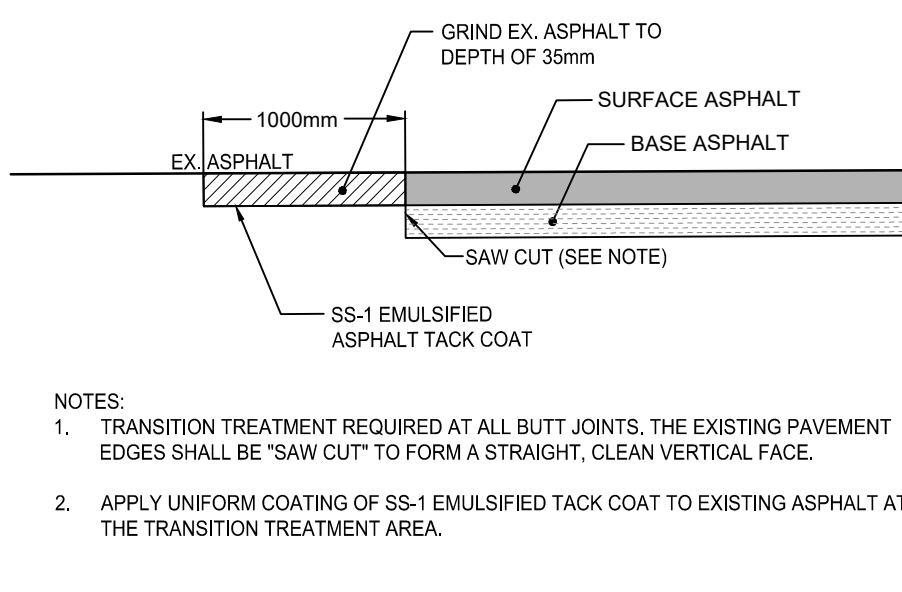


Diagram illustrating the cross-section of a road structure, showing various layers and materials. The layers are labeled as follows:

- 40mm SP12.5
- COMPACTED TO 92% MRD CONFORMING TO OPSS 310 & 1151
- 50mm SP19.0
- COMPACTED TO 92% MRD CONFORMING TO OPSS 310 & 1151
- 150mm GRANULAR "A"
- COMPACTED TO 100% SPMD CONFORMING TO OPSS 1010
- 350mm GRANULAR "B"
- COMPACTED TO 100% SPMD CONFORMING TO OPSS 1010
- COMPACTED SUBGRADE

NOTES:

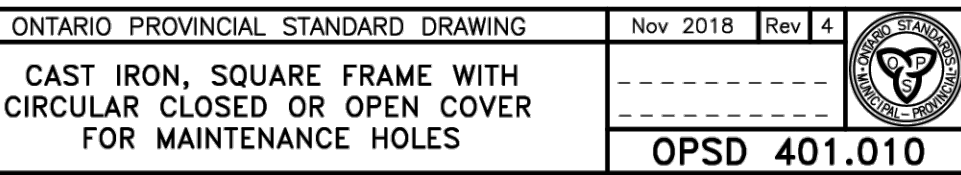
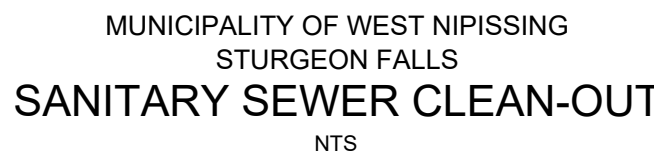
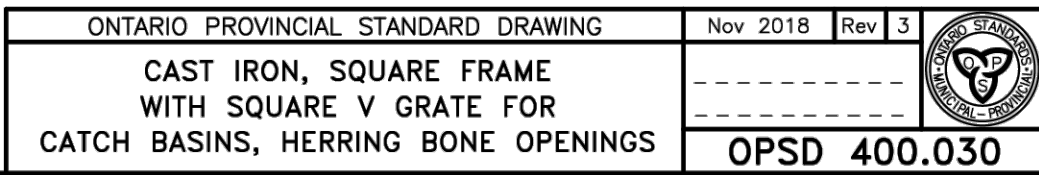
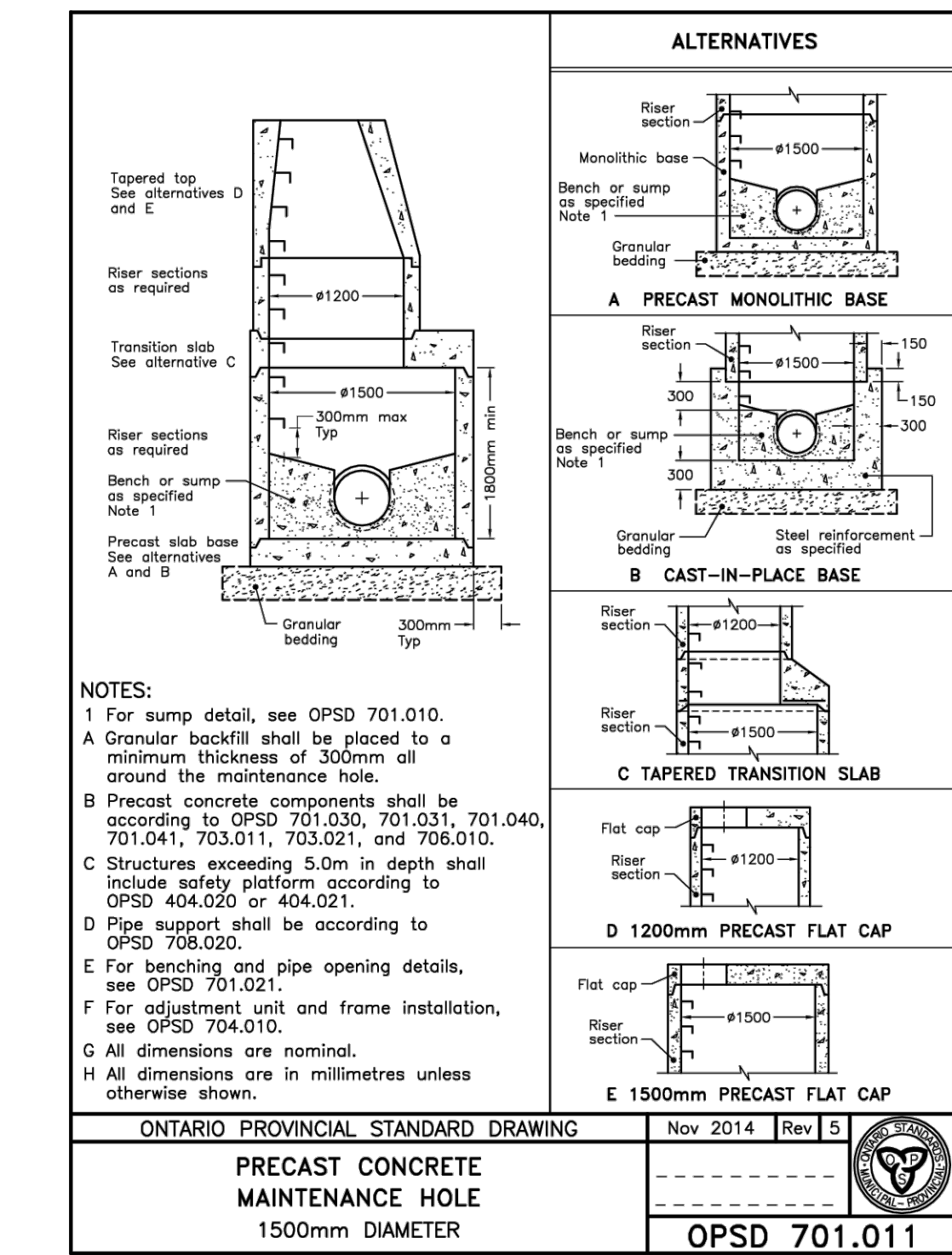
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

STANDARD PAVEMENT STRUCTURE

SCALE: N.T.S



4 ASPHALT CURB WITH GUTTER OPSD
601.010 MODIFIED SCALE: N.T.S.



NOTES:
ALL RIGHT OF WAY AND PROPERTY LINES ARE APPROXIMATE

4.	ISSUED FOR TENDER	JB	2026-01-19
3.	ISSUED FOR 90% REVIEW	JB	2025-11-18
2.	ISSUED FOR 60% REVIEW	JB	2025-09-19
1.	ISSUED FOR 30% REVIEW	JB	2025-08-13
No.	REVISION	BY	DATE



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BOURGAULT STREET RECONSTRUCTION

STURGEON FALLS

DETAILS

MUNICIPALITY OF WEST NIPISSING

DRAWN BY:

J.BURKE

DESIGNED BY:

J.BURKE

APPROVED BY:

B. PARSON

DATE: _____

2025-08-26

SCALE:

1:250H 1:50H

PROJECT NUMBER:

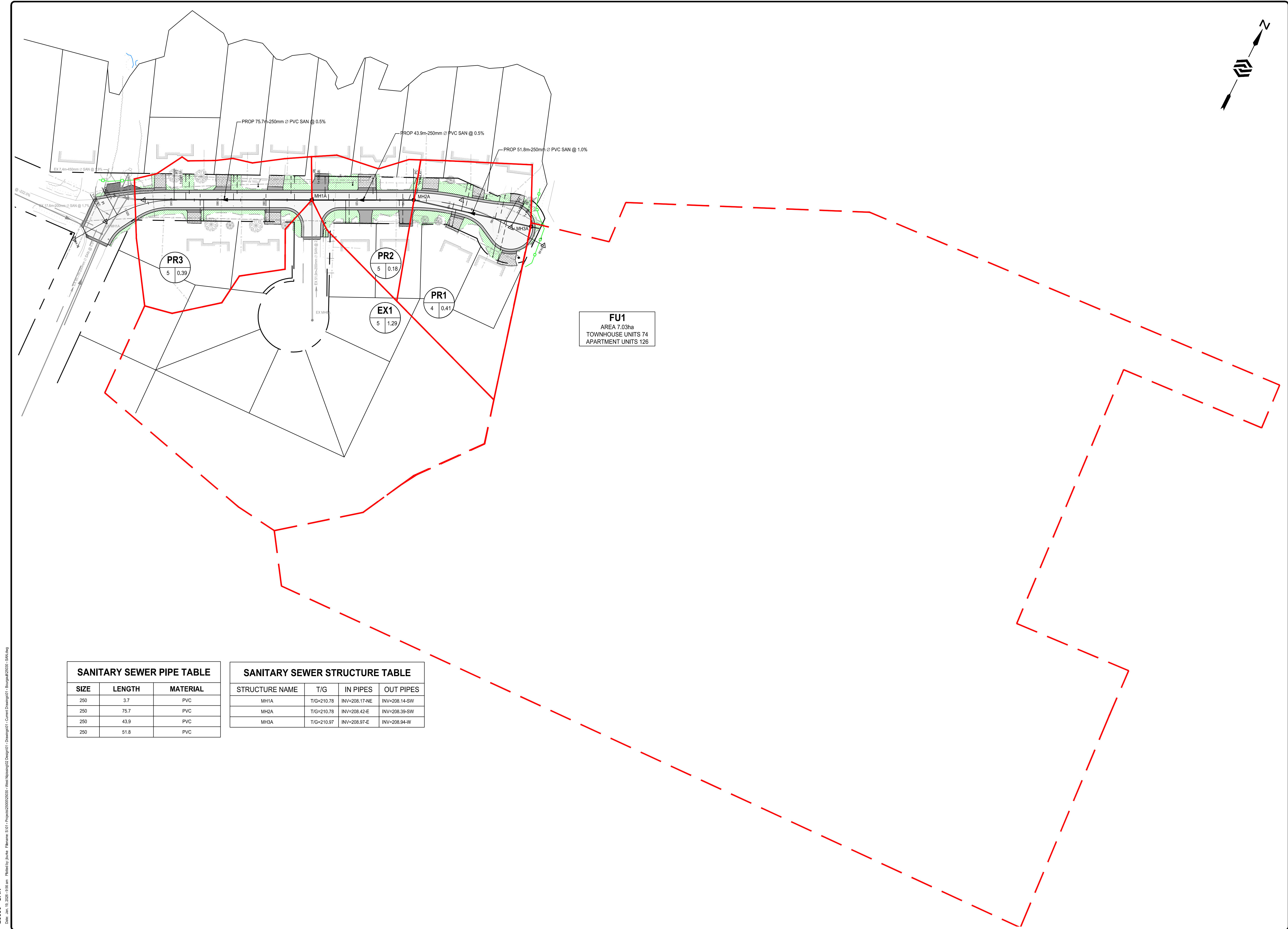
25030

STAMP: 

NAME:	SHEET:
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DT1	7 o
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25030 - SAN
Date: Jan 10, 2026 9:58 am Plotted by J.Burke File name: S:\21 - Projects\25030\25030 - West Nipissing\25030 - Bourgaault\25030 - SAN.dwg



SANITARY SEWER PIPE TABLE		
SIZE	LENGTH	MATERIAL
250	3.7	PVC
250	75.7	PVC
250	43.9	PVC
250	51.8	PVC

SANITARY SEWER STRUCTURE TABLE				
STRUCTURE NAME	T/G	IN PIPES	OUT PIPES	
MH1A	T/G=210.78	INV=208.17-NE	INV=208.14-SW	
MH2A	T/G=210.78	INV=208.42-E	INV=208.39-SW	
MH3A	T/G=210.97	INV=208.97-E	INV=208.94-W	

SURVEY
TOPOGRAPHIC SURVEY PROVIDED
BY ENGAGE ENGINEERING.

BENCHMARK
TOP OF LARGE ARM OF FIRE HYDRANT AT SOUTH WEST CORNER OF
INTERSECTION OF CHURCH ST, BOURGAULT ST AND MICHAUD ST

ELEV: 211.94m

NOTES:
ALL RIGHT OF WAY AND PROPERTY LINES ARE APPROXIMATE

LEGEND

PROPOSED SANITARY MANHOLE
EXISTING SANITARY MANHOLE
PROPOSED SANITARY SEWER
EXISTING SANITARY SEWER
SANITARY DRAINAGE AREA
CATCHMENT NAME
PR1
No. OF UNITS
4
AREA (ha)
0.231
PIPE FLOW DIRECTION

4.	ISSUED FOR TENDER	JB	2026-01-19
3.	ISSUED FOR 90% REVIEW	JB	2025-11-18
2.	ISSUED FOR 60% REVIEW	JB	2025-09-19
1.	ISSUED FOR 30% REVIEW	JB	2025-08-13
No.	REVISION	BY	DATE



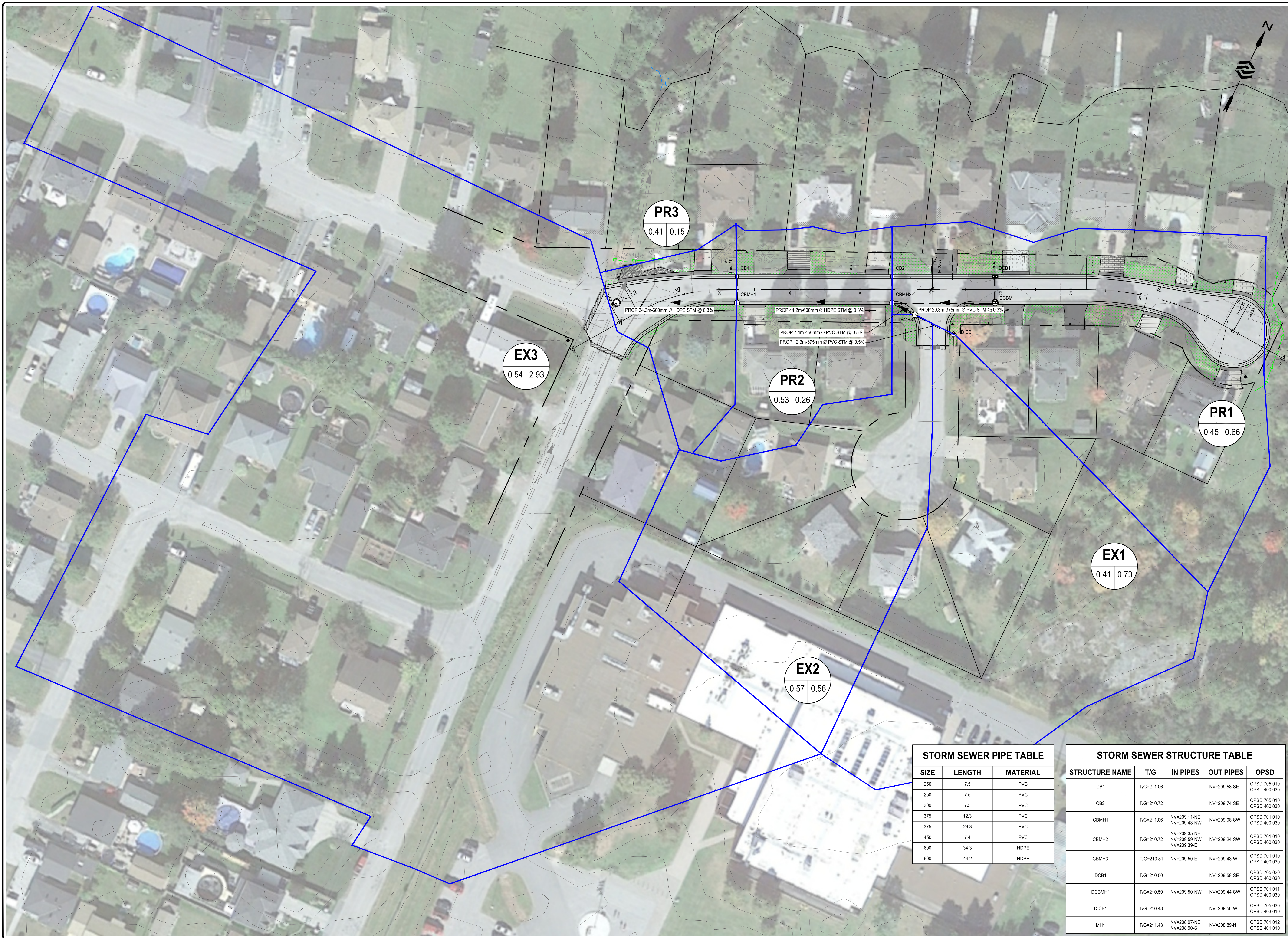
BOURGAULT STREET RECONSTRUCTION

STURGEON FALLS

SANITARY SEWER DRAINAGE AREA PLAN

MUNICIPALITY OF WEST NIPISSING

DRAWN BY: J.BURKE	STAMP:		
DESIGNED BY: J.BURKE			
APPROVED BY: B. PARSONS			
DATE: 2025-06-26			
SCALE: 1:750	PROJECT NUMBER: 25030	SHEET NAME: SAN1	SHEET: 8 OF 9



SURVEY
TOPOGRAPHIC SURVEY PROVIDED
BY ENGAGE ENGINEERING.

BENCHMARK

TOP OF LARGE ARM OF FIRE HYDRANT AT SOUTH WEST CORNER OF
INTERSECTION OF CHURCH ST, BOURGAULT ST AND MICHAUD ST

ELEV: 211.94m

NOTES:
ALL RIGHT OF WAY AND PROPERTY LINES ARE APPROXIMATE

LEGEND

 PROPOSED STORM MANHOLE
 PROPOSED STORM SEWER
 EXISTING STORM MANHOLE
 EXISTING STORM SEWER

STORM DRAINAGE AREA

PR2

ATTACHMENT NAME

0.45 0.28

AREA (ha)

RUNOFF
DEFICIENT

PIPE FLOW DIRECTION

4.	ISSUED FOR TENDER	JB	2026-01-19
3.	ISSUED FOR 90% REVIEW	JB	2025-11-18
2.	ISSUED FOR 60% REVIEW	JB	2025-09-19
1.	ISSUED FOR 30% REVIEW	JB	2025-08-13
No.	REVISION	BY	DATE

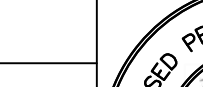


BOURGAULT STREET RECONSTRUCTION

STURGEON FALLS

STORM SEWER DRAINAGE AREA PLAN

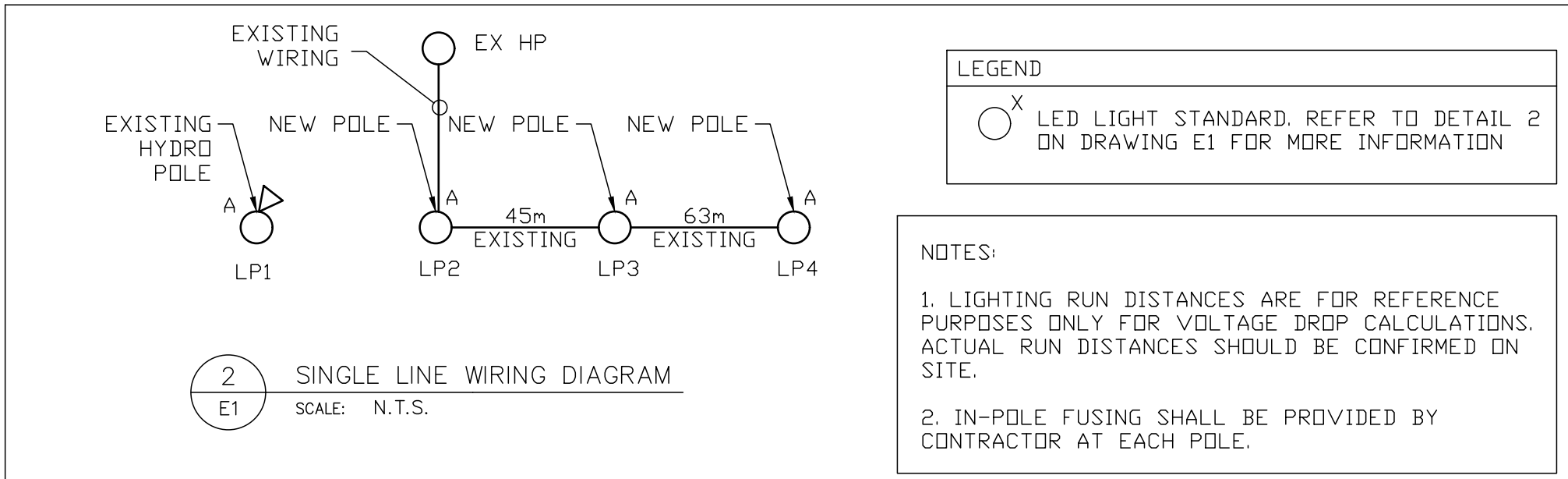
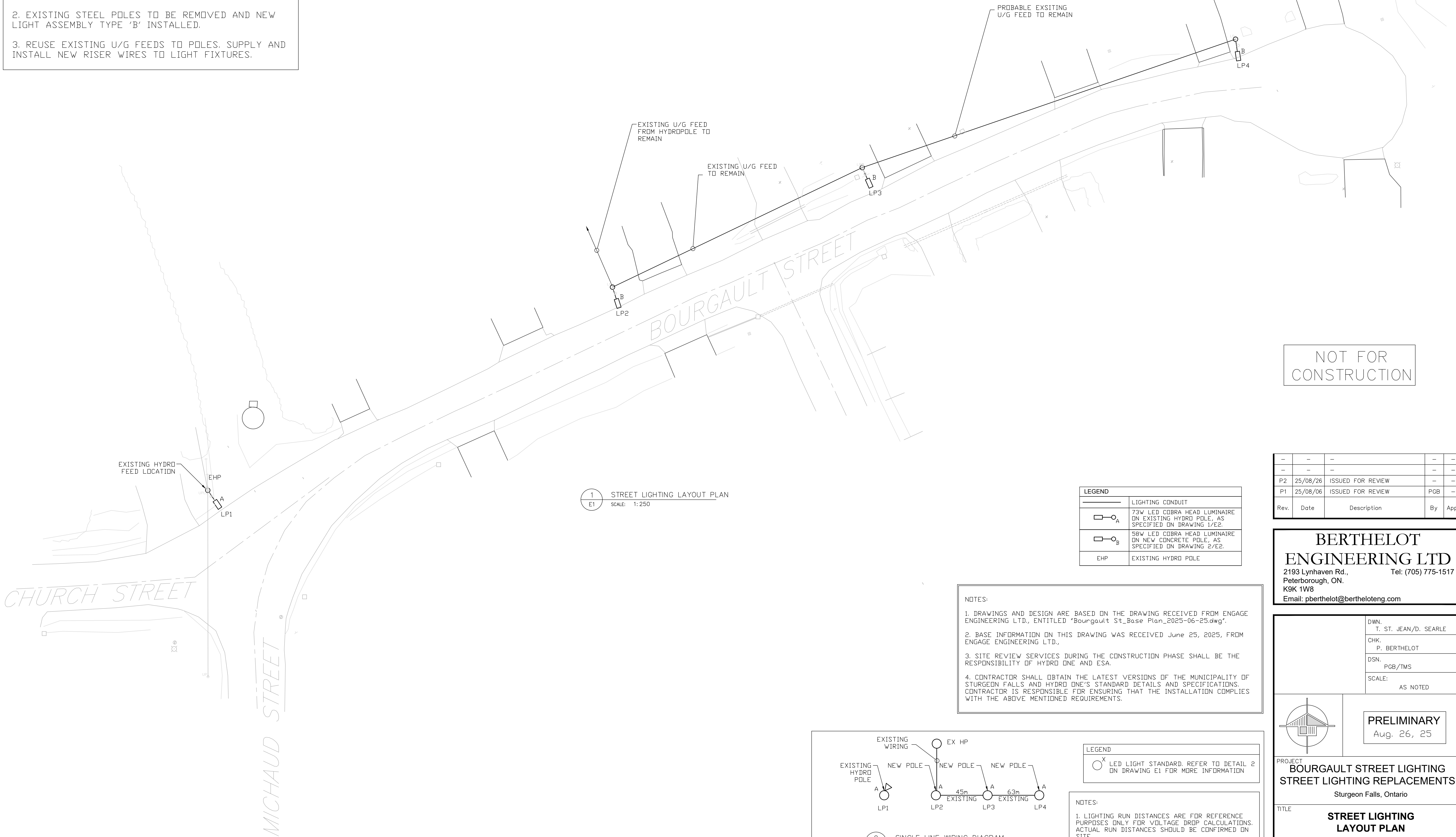
MUNICIPALITY OF WEST NIPISSING

DRAWN BY: J BURKE	
DESIGNED BY: J BURKE	
APPROVED BY: B. PARSONS	
DATE: 2025-06-26	

SCALE: 1:300

PROJECT NUMBER: 25030	SHEET NAME: ST1	SHEET: 9 OF 9
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- NOTES
1. NEW LUMINAIRE TYPE 'A' SHALL BE INSTALLED ON EXISTING HYDRO POLE AND ARM. DISCONNECT EXISTING WIRING TO EXISTING LIGHT AND RECONNECT TO NEW LIGHT FIXTURE.
 2. EXISTING STEEL POLES TO BE REMOVED AND NEW LIGHT ASSEMBLY TYPE 'B' INSTALLED.
 3. REUSE EXISTING U/G FEEDS TO POLES. SUPPLY AND INSTALL NEW RISER WIRES TO LIGHT FIXTURES.



NOT FOR
CONSTRUCTION

-	-	-	-	-
-	-	-	-	-
P2	25/08/26	ISSUED FOR REVIEW	-	-
P1	25/08/06	ISSUED FOR REVIEW	PGB	-
Rev.	Date	Description	By	App.

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DWN.
T. ST. JEAN/D. SEARLE

CHK.
P. BERTHELOT

DSN.
PGB/TMS

SCALE:
AS NOTED

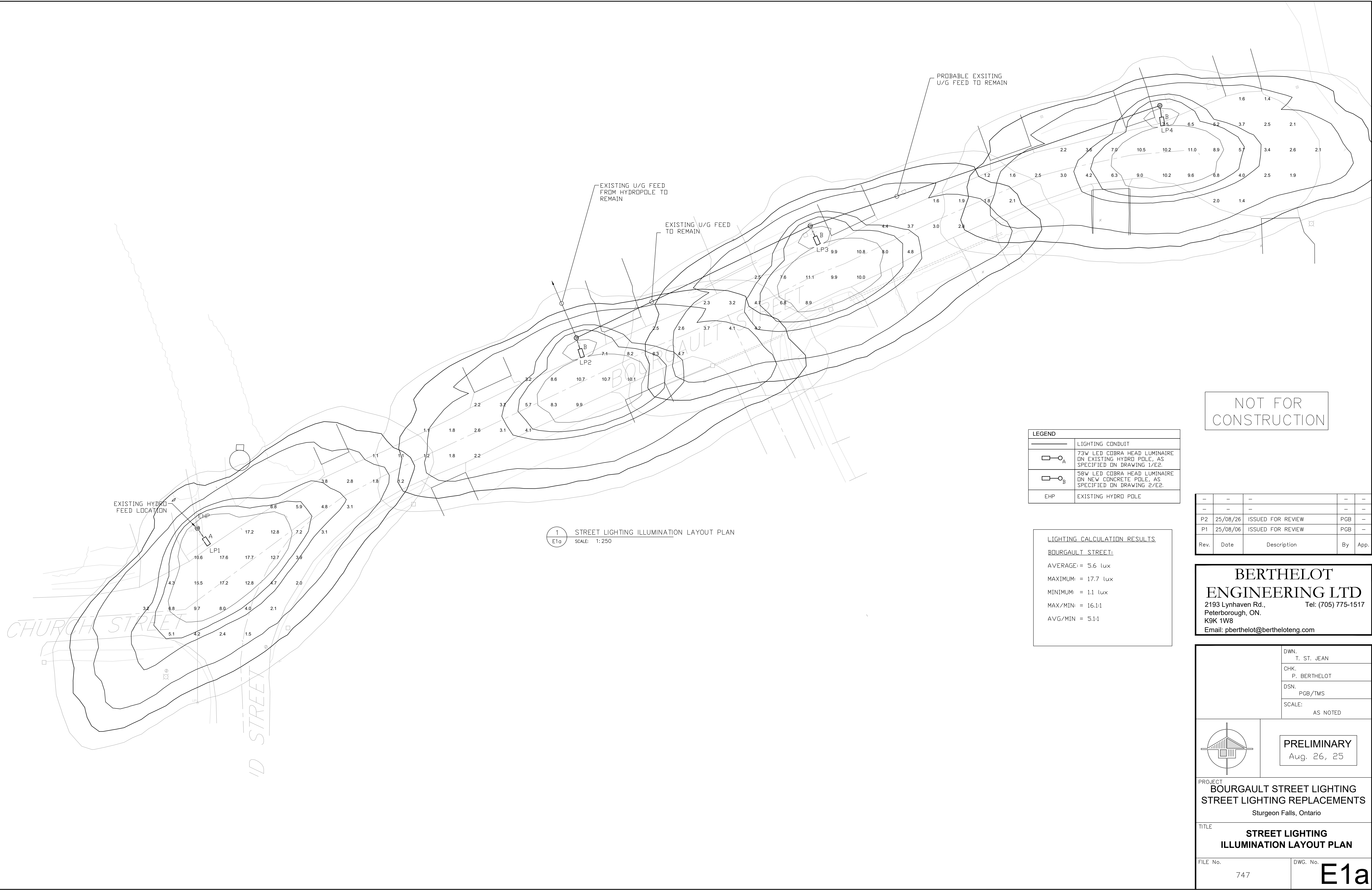
PRELIMINARY
Aug. 26, 25

PROJECT
BOURGAULT STREET LIGHTING
STREET LIGHTING REPLACEMENTS
Sturgeon Falls, Ontario

TITLE
STREET LIGHTING
LAYOUT PLAN

FILE No.
747

DWG. No.
E1



1 STREET LIGHTING ILLUMINATION LAYOUT PLAN
SCALE: 1:250

LEGEND	
	LIGHTING CONDUIT
	73W LED COBRA HEAD LUMINAIRE ON EXISTING HYDRO POLE, AS SPECIFIED ON DRAWING 1/E2.
	58W LED COBRA HEAD LUMINAIRE ON NEW CONCRETE POLE, AS SPECIFIED ON DRAWING 2/E2.
EHP	EXISTING HYDRO POLE

LIGHTING CALCULATION RESULTS

BOURGAULT STREET:

AVERAGE: = 5.6 lux
MAXIMUM: = 17.7 lux
MINIMUM: = 1.1 lux
MAX/MIN: = 16.1:1
AVG/MIN: = 5.1:1

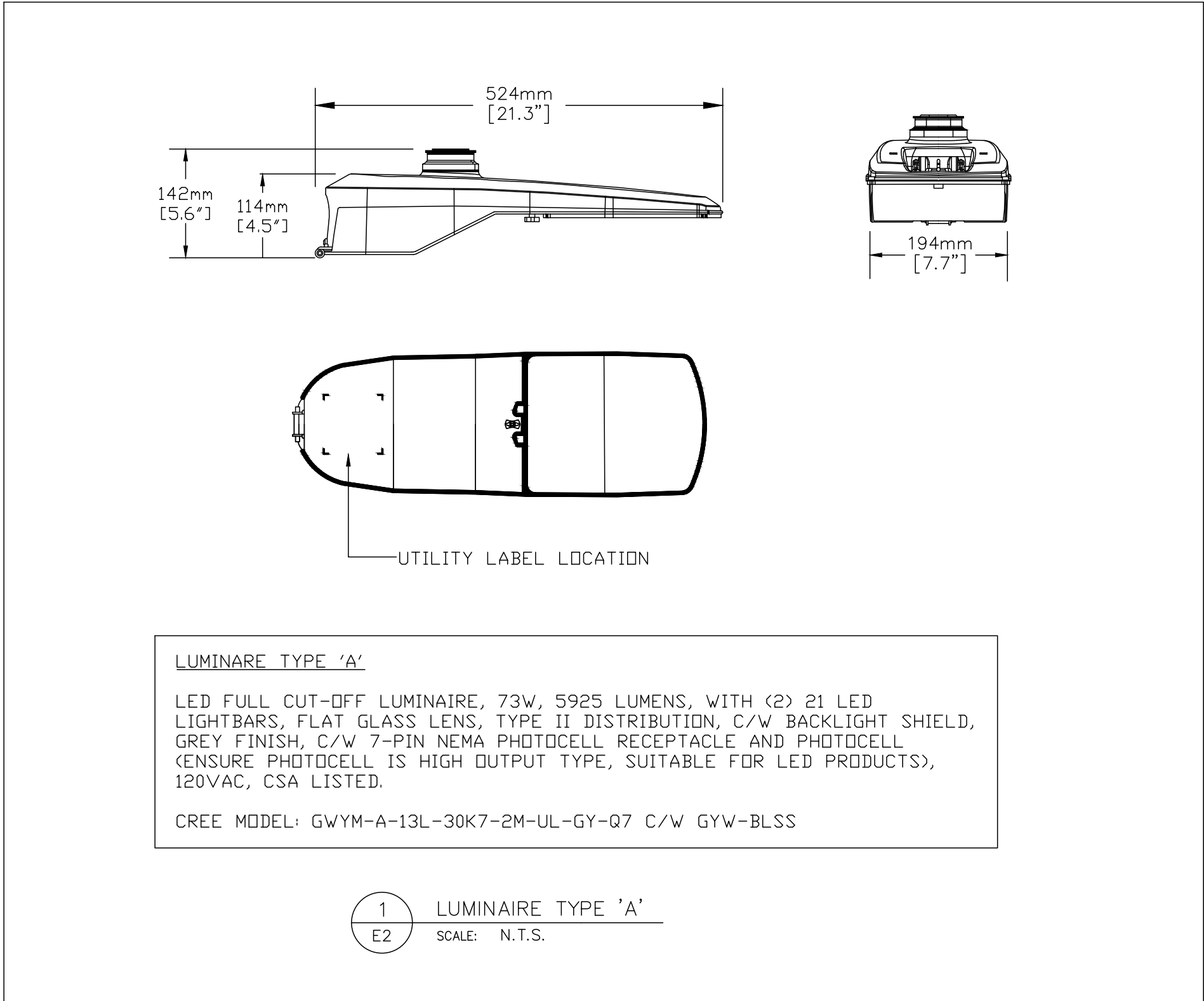
NOT FOR
CONSTRUCTION

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P2	25/08/26	ISSUED FOR REVIEW	PGB	—
P1	25/08/06	ISSUED FOR REVIEW	PGB	—
Rev.	Date	Description	By	App.

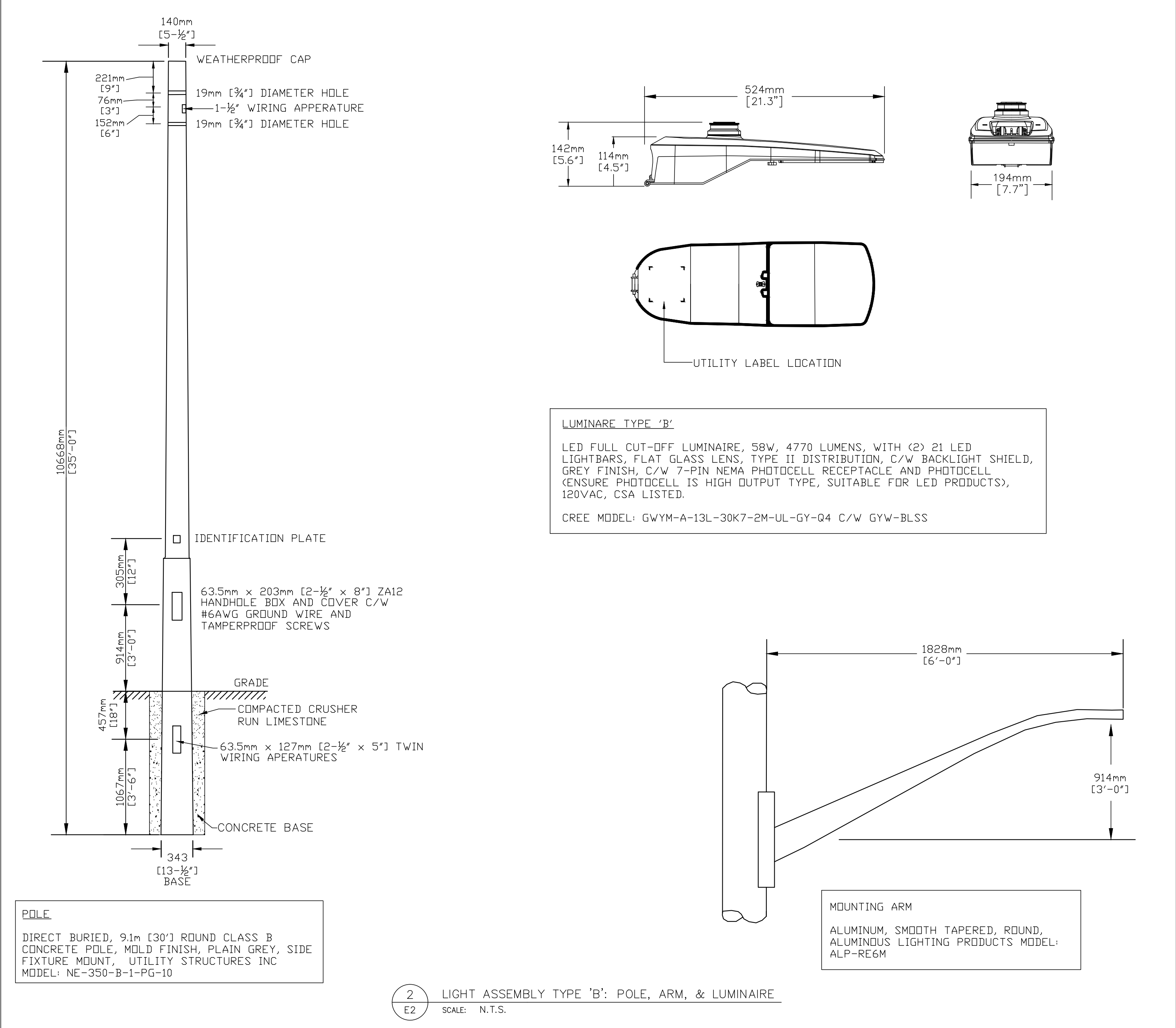
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	DWN. T. ST. JEAN
	CHK. P. BERTHELOT
	DSN. PGB/TMS
SCALE: AS NOTED	
PRELIMINARY Aug. 26, 25	
PROJECT BOURGAULT STREET LIGHTING STREET LIGHTING REPLACEMENTS Sturgeon Falls, Ontario	
TITLE STREET LIGHTING ILLUMINATION LAYOUT PLAN	
FILE No. 747	DWG. No. E1a



Part 1 – General	
1.1. General	
1.1.1. This section covers the general requirements for the electrical work. Read all divisions of the contract documents.	1.7. Insurance
1.1.2. All equipment shall be CSA approved.	1.7.1. The contractor shall maintain all necessary insurance to protect the owner and all trades from all possible claims.
1.1.3. All equipment, materials and installation methods shall conform to the best commercial standard practice, and in accordance with the Ontario Electrical Safety Code and all bulletins.	1.8. Liability
1.2. Outline Scope	1.8.1. The contractor shall assume full responsibility for layout of work and for any damage caused by improper location or carrying out of work of these sections.
1.2.1. The following major items of work shall be supplied and installed under the electrical contract:	1.10. Record Drawings
1.2.2. Provide all labour, materials, equipment and services to complete the work of the electrical division as further specified and as shown on the drawings: a. Supply and install street lighting fixtures, poles, and arms, as detailed on the drawings.	1.10.1 The contractor shall maintain accurate records of changes to the drawings on the job site. These shall include: all changes included in addenda to the tender documents; site instructions; and contract change notices. Upon project completion, the contractor shall forward to the consultant the set of drawings indicating the as-built conditions.
1.3. Contract Drawings	1.11. Existing Conditions
1.3.1. Drawings for electrical work are performance drawings, diagrammatic, intended to convey scope of work and indicate general arrangement and approximate location of apparatus, fixtures and wiring. Drawings do not show all conduits. Those shown are diagrammatic only.	1.11.1. The contractor shall visit and examine the site and become familiar with all existing conditions affecting the work prior to submitting tender. No allowances in cost will be made by the owner for any difficulties encountered in the work arising out of conditions existing at the time of tendering.
1.3.2. Additional money over the contract price shall not be paid unless an approved change order is issued by the architect. Claims for extras shall be submitted with a complete breakdown of material, labour, hourly rates, etc.	1.12. Clean-Up
1.4. Shop Drawings	1.12.1. At all times keep the premises free from accumulations of waste material or rubbish caused by employees or work. At the completion of the work, remove all rubbish and all tools, equipment and surplus materials from and about the work and leave the work "broom clean" or its equivalent, unless more exactly specified. All lighting fixtures, light switches, and other operable electrical devices shall be cleaned at the completion of work.
1.4.1 Submit four reproducible copies of manufacturer's detailed shop drawings, which indicate clearly the materials and/or equipment actually being supplied, all details of construction, accurate dimensions, capacity, operating characteristics and performance for each piece of manufactured equipment and for items listed under each section for review.	1.13. Permit, Fees and Inspection
1.4.2. Shop drawings submitted for approval that are not stamped and signed in accordance with the preceding requirements will be returned for resubmittal.	1.13.1 The contractor shall apply for, obtain and pay all permits, licenses, inspections, examinations and fees required. The contractor shall arrange for inspection of all work by the authorities having jurisdiction over the work. On completion of the work, present to the owner the final unconditional certificate of approval by the inspection authorities.
1.4.3. Installation of any equipment shall not commence until after shop drawings have been reviewed by the consultant.	1.13.2 Before starting any work, submit the required number of copies of drawings and specifications to the authorities for their approval and comments. Comply with any changes requested as part of the contract, but notify the owner immediately of such changes, for proper processing of these requirements.
1.4.4. Bind one set of approved shop drawings in each operating and maintenance instruction manual.	1.13.3 Upon completion of the installation of the street lights, a copy of the ESA inspection certificate shall be forwarded to the city inspector, prior to the energizing of the street lights.
1.5. Co-Operation with Other Trades	
1.5.1. The contractor shall co-operate fully with other trades in such a manner as not to interfere with other work being carried out at the job site. Where other work and equipment has to be installed along with work pertaining to this division, arrange with other trades to install this work to best suit the needs for the particular condition.	
1.6. Warranty	
1.6.1. The contractor shall guarantee all work for a period of one year after the date of issue of the final certificate by the engineer and for longer periods where specified. If any defects become evident within the guarantee periods all necessary repairs and replacements to the work shall be made without cost to the owner. The contractor shall pay for making good any other work damaged through defects in the work of this section during both construction and guarantee periods.	



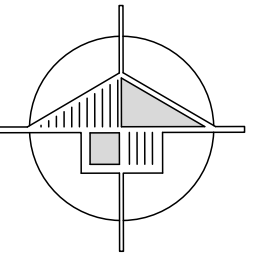
Part 2 – Basic Materials and Methods	
2.1. Wires and Cables	
2.1.1. All conductors shall be copper. Conductors shall be stranded for #8AWG and larger with 1000v insulation of chemically cross-linked thermo setting polyethylene. 600v insulation can be used for conductors smaller than #8AWG. Base the 600 volt RW 90 conductor ampacities on published CEC 90°C. Rating. Cables shall be loaded to not more than 75% (70% to 80%) of this rating. Minimum #12AWG wiring shall be used.	
2.1.2. Neutrals of power systems, although connected to a common ground at the source, shall be electrically separated and isolated from each other beyond this point of origination. Feeders to two or more switches or panels and the tapoffs to same shall all be run using the same size conductors throughout.	
2.1.1. All wires shall be carried full size from source to the load. Neutral wires shall be the same size as phase wires. Equipment Ground wires shall be one size smaller than phase wire, except that the conductor shall not be larger than a 4/0 and shall be no. 10 for 30 amp circuits and no. 12 for circuits less than 30 amps. Insulation shall be type RW 90. Multi-circuit branch circuits in same conduit require only one equipment ground wire.	
Part 3 – Lighting Equipment	
Luminaires	
3.1. Locate and install luminaires as indicated on contract drawings and connect luminaires to lighting circuits.	

NOT FOR
CONSTRUCTION

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P2	25/08/26	ISSUED FOR REVIEW	PGB	–
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DWN. T. ST. JEAN/D. SEARLE	
CHK. P. BERTHELOT	
DSN. PGB/TMS	
SCALE: AS NOTED	
	
PRELIMINARY Aug. 26, 25	
PROJECT BOURGALT STREET LIGHTING STREET LIGHTING REPLACEMENTS Sturgeon Falls, Ontario	
TITLE STREET LIGHTING DETAILS	
FILE No. 747	DWG. No. E2