

MOHAWK COUNCIL OF AKWESASNE RESIDENTIAL WATERLINE CONNECTIONS

AKWESASNE, TSISNAIHNE DISTRICT, QC.

REQUEST FOR QUOTATIONS

CIVIL - LIST OF DRAWINGS

GI-1	GENERAL INFORMATION	
C-1	TSISNAIHNE DISTRICT - PAUL CREE MEM. ROAD CONNECTIONS	

03	2025-09-25	DS	REQUEST FOR QUOTATIONS
02	2025-02-20	DS/BS	66% DESIGN SUBMISSION
01	2025-01-31	DS/TN	ISSUED FOR INITIAL REVIEW
No.	YYYY-MM-DD	BY	DESCRIPTION
	•		•

MOA PROJECT N. . OF COACA

COVER SHEET

LEGEND

CONTROL / MONUMENTS / PROPERTY / SURVEY **IRON BAR SQUARE IRON BAR ROUND IRON BAR** CUT CROSS **CONCRETE MONUMENT** NAIL **TOTAL STATION POINT** # BENCHMARK RIGHT-OF-WAY / EASEMENT

UTILITIES

HP	HYDRO POLE

- HYDRO / BELL POLE
- **BELL POLE**
- POLE (OTHER)
- POLE ANCHOR
- PEDESTAL (BELL/CABLE/OTHER)
- HYDRO TRANSFORMER
- LIGHTING STANDARD
- HYDRO LINE (UNDERGROUND)
- — UB — UB — BELL LINE (UNDERGROUND)
- — UC — UC — UC CABLE LINE (UNDERGROUND)
- --- UTL--- UTL- UTILITY LINE
- — UG— UG— UG—

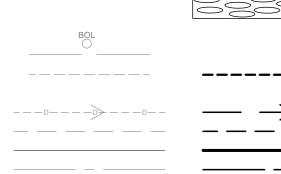
 - **GAS METER**

WATER / STORM / SANITARY

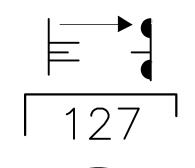
EXISTING	PROPOSED	DESCRIPTION
₩V	₩V M	WATER GATE VALVE
FH	FH	FIRE HYDRANT
wso ○	wso O	WATER/CURB SHUT OF
	ww	WATERMAIN
	w w	WATER SERVICE CONNECTION
(VC)	©	VALVE CHAMBER
D	©	DRAINAGE MANHOLE O CATCH BASIN MANHOL
СВ	СВ	CATCH BASIN (SINGLE)
TCB	TCB	TWIN CATCH BASIN
DI	DI	DITCH INLET
DW	O	DRY WELL
DB ○	O O	DRAINAGE (YARD) BASI
	STM STM	STORM SEWER
STMSTM		STORM SERVICE CONNECTION
	========	CULVERT
S	S	SANITARY MANHOLE
SAN SAN	——————————————————————————————————————	SANITARY SEWER
——————————————————————————————————————	——————————————————————————————————————	SANITARY SERVICE CONNECTION

GROUND FEATURES / SURFACE OBJECTS / GRADING

EXISTING	PROPOSED	DESCRIPTION
BH15-7		BORE HOLE
DIME 4		ROCK PROBE
PH15–1 ×125.500	×[125.500]	GRADING ELEVATIONS
	★ T/W125.520	GRADING ELEVATIONS-TOP OF CONCRETE RETAINING WALL
	xxx	FENCE LINES
		HEDGES / WOOD OUTLINE
		TREES



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RIGHT-OF-WAY **GRANULAR ENTRANCE** BOTTOM / CENTERLINE OF DITCH EDGE OF SHOULDER EDGE OF ASPHALT / PAVEMENT ROAD CENTERLINE BACK OF CURB LIMIT OF GRADING/LANDSCAPING

RIP RAP - RIVER RUN 200-300

ROAD SIGN

BOLLARD

RIP RAP - CLASS I

RIP RAP - CLASS II

DEPRESSED CURB INCLUDING TRANSITION AREA

ROCK OUT CROP

PROPOSED FILL SLOPE **BUILDING/RESIDENCE**

TACTILE WARNING STRIP 610mm x 610mm EACH PANEL (2)

HANDRAIL BY OWNER

GENERAL NOTES:

- 1. THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
- 2. "ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED"
- 3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROTECTION FOR ALL EXISTING UNDERGROUND UTILITIES DURING CONSTRUCTION.
- 4. THE FOLLOWING GENERAL INFORMATION NOTES ARE EXCERPTS FROM THE CONTRACT DOCUMENT PROVISIONS:

LAYOUT BY CONTRACTOR:

THE CONTRACTOR IS TO COMPLETE THE LAYOUT FOR THE PROJECT PER OPSS.MUNI GENERAL CONDITIONS OF CONTRACT, NOVEMBER 2018 SUBSECTION GC 7.02 AND THE FOLLOWING ADDITIONAL INFORMATION:

CONTRACTOR TO REVIEW PROPOSED ALIGNMENT WITH MCA FIELD REPRESENTATIVE, ANY DEVIATIONS FROM PLANS TO BE NOTED AND MARKED ON AS-BUILT REDLINE MARK-UPS.

LEGAL SURVEY NOTES:

- PROPERTY LINE INFORMATION ON THE DRAWINGS ARE APPROXIMATE AND HAVE NOT BEEN VERIFIED BY AN ONTARIO LAND SURVEYOR (OLS). THE ACCURACY OF THE POSITION (S) OF SUCH PROPERTY LINES IS NOT GUARANTEED.
- 2. CONTRACTOR IS TO PROTECT TO THE BEST OF THEIR ABILITY PROPERTY MARKERS SHOWN ON THE CONTRACT DRAWINGS AND FOUND IN THE FIELD. IF A PROPERTY MARKER IS DISTURBED, IT IS THE CONTRACTORS RESPONSIBILITY TO REESTABLISH THE PROPERTY MARKER WITH AN LICENSED ONTARIO LAND SURVEYOR, AT NO COST TO THE OWNER.

UTILITY NOTES:

- SCOPE OF WORK MAY INCLUDE WORK WITHIN 3m OF ONTARIO EAST FIBER CONDUIT. ONTARIO EAST REPRESENTATIVE MUST BE CONTACTED (3) DAYS PRIOR OF COMMENCEMENT OF WORK. COORDINATE CONSTRUCTION SCHEDULE WITH PROJECT MANAGER AND OR CONSTRUCTION ADMINISTRATOR TO ENSURE ONTARIO EAST REPRESENTATIVES ARE CONTACTED.
- SCOPE OF WORK MAY INCLUDE WORK WITHIN 3m OF UTILITY POLES, CONTRACTOR TO PROVIDE SUPPORT FOR ANY AFFECTED UTILITY POLES ALONG WATERSERVICE ALIGNMENT. CONTRACTOR TO CONTACT UTILITY COMPANY (HYDRO QUEBEC, BELL) ON PROPER SUPPORT METHOD APPROVED.

CLEARING LIMBING:

WHERE LIMBS OR PORTIONS OF TREES ARE REMOVED TO ACCOMMODATE CONSTRUCTION ACTIVITIES, THEY SHALL BE REMOVED CAREFULLY IN ACCORDANCE WITH ARBORICULTURAL PRACTICES SUBJECT TO THE CONTRACT ADMINISTRATORS APPROVAL. ALL DAMAGED LIMBS AND BRANCHES SHALL BE REMOVED LEAVING NO STUBS.

WATER WORKS NOTES:

- 1 POLYVINYL CHLORIDE (PVC) AND MOLECULARLY ORIENTATED POLYVINYL
- a. <u>150mm TO 400mm DIAMETER</u>:

PVC CLASS 150 DR-18 PIPE SHALL BE ACCORDING TO AWWA C900 OR AWWA C905 AND CSA B137.3 AND SHALL BE BLUE IN COLOUR AND SUPPLIED COMPLETE WITH NITRILE GASKETS. OR, MOLECULARLY ORIENTATED POLYVINYL CHLORIDE PIPE (PVCO) SHALL BE ACCORDING TO AWWA C909 AND CSA B137.3.1, AND SHALL BE BLUE IN COLOUR AND SUPPLIED COMPLETE WITH NITRILE GASKETS AND SUBJECT TO USING THE MANUFACTURER'S APPROVED MECHANICAL RESTRAINERS.

THE PIPE BEDDING, COVER MATERIAL AND BACKFILL SHALL BE COMPACTED TO 100% OF THE STANDARD PROCTOR DENSITY CONFORMING TO DIMENSIONS OF OPSD 802.010 AND 802.013. THE PIPE BEDDING AND COVER MATERIAL SHALL BE GRANULAR 'A'. BACKFILL SHALL BE ACCEPTABLE NATIVE MATERIAL, IF ROCK FILL IS USED AS BACKFILL IT SHOULD BE WELL GRADED MATERIAL HAVING A MAXIMUM PARTICLE SIZE OF 300 mm, UNLESS OTHERWISE DIRECTED BY THE CONTRACT ADMINISTRATOR.

b. <u>FITTINGS</u>

DUCTILE IRON ACCORDING TO C110 / A21.10 OR AWWA C153 AND SHALL BE CEMENT LINED ACCORDING TO AWWA C104/ A21.4.

STAINLESS STEEL LIVE TAPPING SLEEVE ACCORDING TO TO C110 / A21.10 OR

SERVICE CONNECTIONS

THE WATER SERVICES ARE 25mm DIAMETER, 38mm DIAMETER AND 50mm DIAMETER TYPE 'K' SOFT COPPER ACCORDING TO ASTM B88, OR EQUILVALENT, IN ACCORDANCE WITH OPSD 1104.010 AND OPSD 1104.020 MINIMUM DEPTH OF COVER 2.0m, 150mm GRANULAR 'A' BEDDING, 300mm GRANULAR 'A' COVER. BACKFILL SHALL BE ACCEPTABLE NATIVE EARTH MATERIAL, UNLESS OTHERWISE DIRECTED BY THE CONTRACT ADMINISTRATOR. ROCK FILL SHALL NOT BE USED AS BACKFILL.

AS SHOWN ON THE CONTRACT DRAWINGS THE MAJORITY OF THE CURB STOPS ARE LOCATED ON PRIVATE PROPERTY. THE PROPOSED CURB STOPS SHALL BE PLACED ON THE RIGHT-OF-WAY, UNLESS OTHERWISE SHOWN, WITH A UNION CONNECTION AT THE EXISTING REMOVED CURB STOP LOCATION.

APPROVED SERVICE CONNECTION FITTINGS AND APPURTENANCES ARE THE FOLLOWING:

MAIN STOPS: MUELLER B-25008 COMPRESSION CURB STOPS: MUELLER B-25155 COMPRESSION COUPLINGS: MUELLER H15403 COMPRESSION SERVICE BOX (SLIDING TYPE) COMPLETE WITH STAINLESS STEEL RODS: MUELLER A-726 SERVICE SADDLES: CONCORD-DAIGLE - ALL STAINLESS STEEL D-71 AND D-72

ROBAR 2606 SMITH BLAIR 372 FORD FS303 CAMBRIDGE BRASS TECH SADDLE #304

NO COUPLING PERMITTED UNDER THE ROAD.

3. VALVES / VALVE BOX / VALVE CHAMBERS

VALVE BOXES AND VALVE CHAMBERS TO BE ADJUSTED TO SUIT PROPOSED ROAD PROFILE PER QUANTITIES ADJUSTMENT TABLE.

YARD HYDRANTS

YARD HYDRANTS SHALL BE MUELLER 2-1/8" FLUSH TYPE FIRE HYDRANT WITH THE FOLLOWING FEATURES:

- FLUSH TYPE DRY BARREL DESIGN - COMPRESSION TYPE MAIN VALVE CLOSES WITH PRESSURE - 2.1m BURY DEPTH CONFORMING TO OPSD 1105.010

6. MECHANICAL JOINT RESTRAINTS TO BE:

- PVC CLASS 150 DR-18 PIPE **UNI-FLANGE** MEGALUG OR APPROVED EQUAL
- PVCO PIPE SUBJECT TO USING THE MANUFACTURER'S APPROVED MECHANICAL RESTRAINERS.
- 7. CATHODIC PROTECTION AND CORROSION PROTECTIVE WRAP:

FOR PVC WATERMAIN ONE PACKAGE ZINC ANODE TYPE Z-12-24 SHALL BE INSTALLED ON EACH VALVE, BEND, TEE, AND RESTRAINING RINGS. ONE PACKAGE ZINC ANODE TYPE Z-12-48 SHALL BE INSTALLED ON EACH HYDRANT ASSEMBLY. ONE PACKAGE ZINC ANODE TYPE Z-12-24 SHALL BE INSTALLED ON EACH COPPER WATER SERVICE, MAIN STOP AND CURB STOP.

FOR PVC WATERMAIN AND HYDRANT ASSEMBLY, EACH VALVE ,BEND, TEE AND RESTRAINING RINGS SHALL BE WRAPPED WITH A PETROLEUM PROTECTIVE WRAP THREE PART SYSTEM DENSO WRAP(PETROLEUM WRAP PRIMER PASTE, PETROLEUM WRAP MASTIC AND PETROLEUM ANTI-CORROSION TAPE) SHALL BE USED.

8. THRUST BLOCKS:

THRUST BLOCKS SHALL BE CONSTRUCTED PER DRAWING OPSD 1103.010 UNLESS OTHERWISE DIRECTED BY THE CONTRACT ADMINISTRATOR.

RESTRAINERS SHALL BE UTILIZED IN ACCORDANCE WITH DRAWINGS W-6A AND

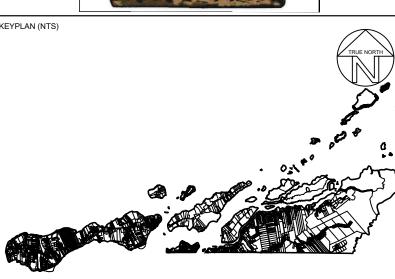
9. TRACER WIRE:

THE CONTRACTOR SHALL SUPPLY AND INSTALL TRACING WIRE IN ACCORDANCE WITH THE CONTRACT DOCUMENT SPECIAL PROVISIONS.

- 10. SUBMISSIONS AND DESIGN REQUIREMENTS:
- IN ACCORDANCE WITH THE CONTRACT DOCUMENTS SPECIAL PROVISIONS.
- 11. COMMISSIONING OF WATERMAIN:
- IN ACCORDANCE WITH THE CONTRACT DOCUMENTS SPECIAL PROVISIONS.





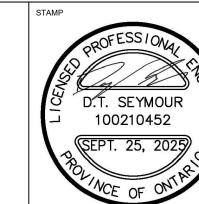


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WHERE THERE ARE ALLEGED FRRORS OMISSIONS INCONSISTENCIES OR AMBIGUITIE PRESENT IN THE CONTRACT DOCUMENTS, THE CONTRACTOR MUST SEEK CLARIFICATION FROM JP2G. ANY COSTS OR SCHEDULE DELAYS WHICH RESULT AS A FAILURE TO CONTACT JP2G FOR DIRECTION SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

- DO NOT SCALE DRAWINGS. REFER ANY DIMENSIONAL CLARIFICATIONS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICTS TO JP2G FOR CLARIFICATION PRIOR TO COMMENCEMEN
- . THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH SUBTRADES AND SHALL ADDRESS CONSTRUCTION TEAM COORDINATION ITEMS PRIOR TO ISSUING REQUESTS FOR INFORMATION FROM JP2G.
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2025-09-25 REQUEST FOR QUOTATIONS 66% DESIGN SUBMISSION 2025-02-20 DS/BS 2025-01-31 DS/TN ISSUED FOR INITIAL REVIEW YYYY-MM-DD BY DESCRIPTION

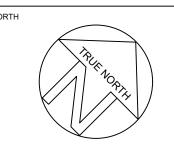


MCA - RESIDENTIAL WATERLINE CONNECTIONS & SOA

AKWESASNE, QUEBEC

GENERAL INFORMATION

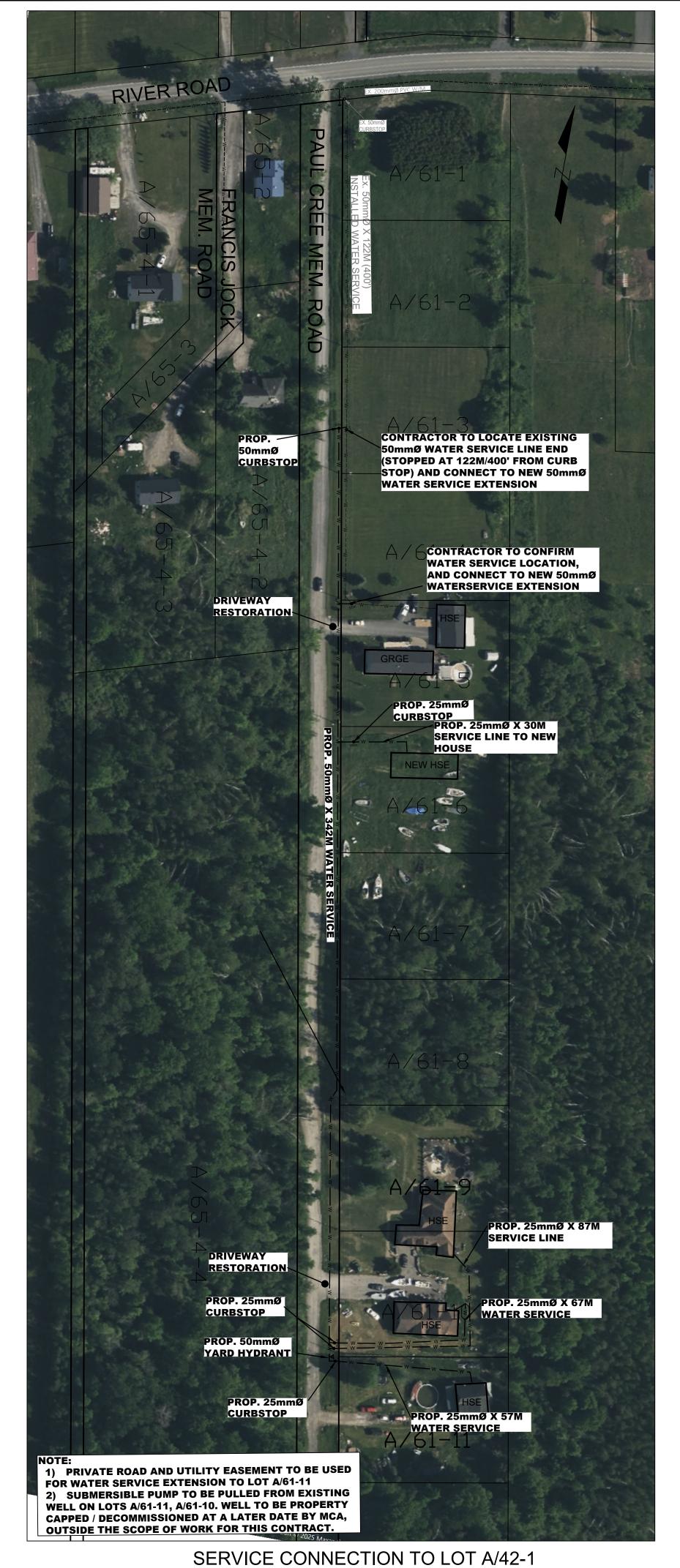
MCA PROJECT No.: 25-3016A

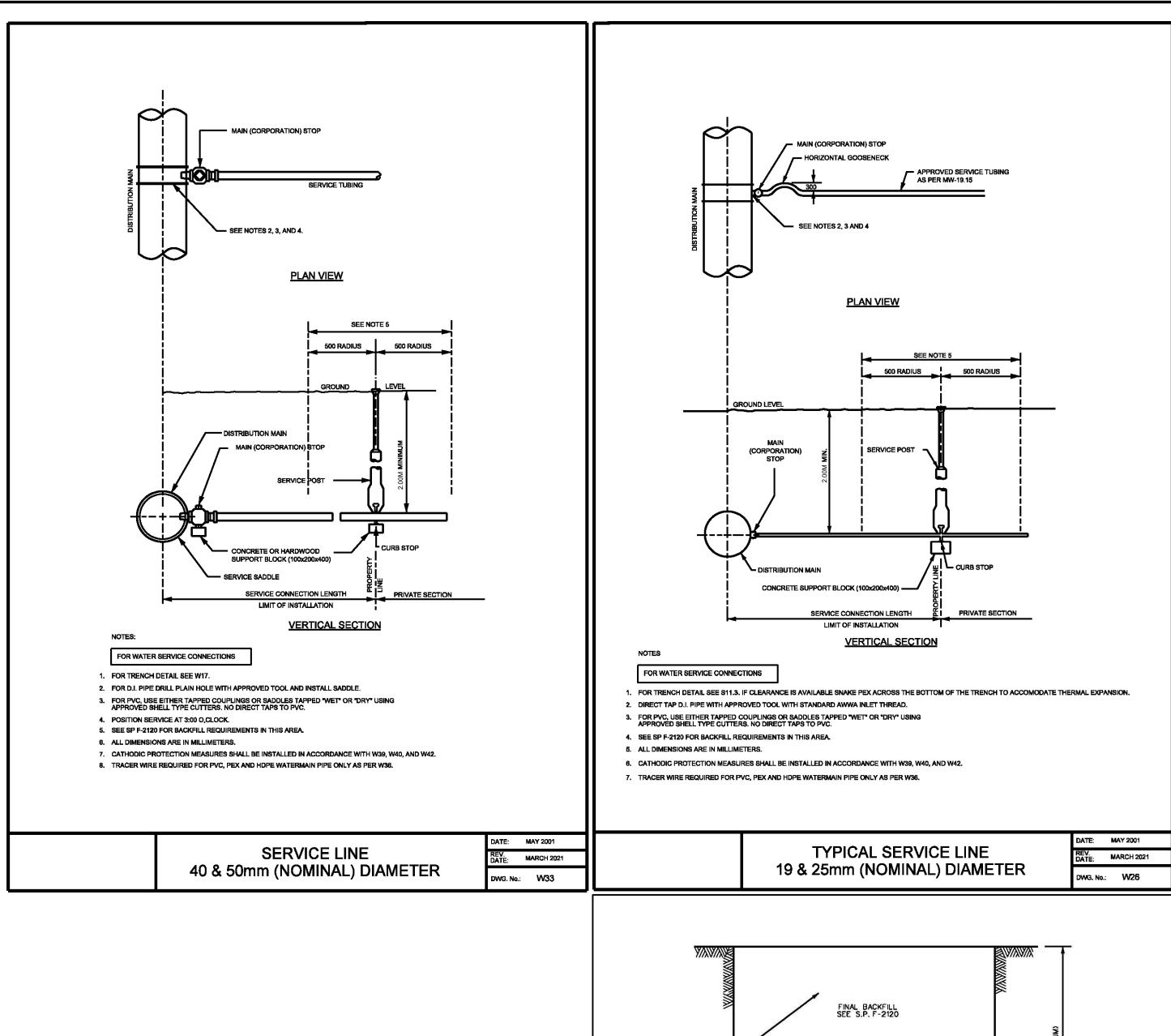


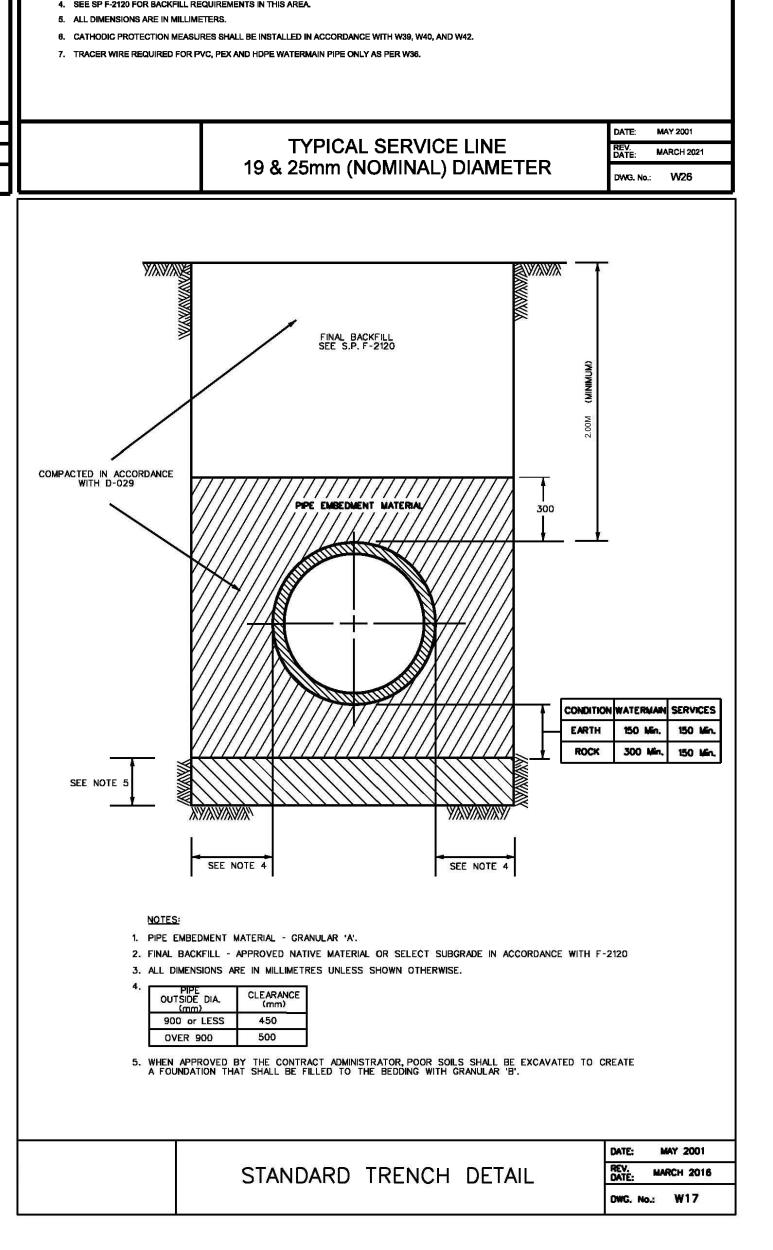
CLIENT No.: DRAFTED: D.T.S. DESIGNED: D.T.S. REVIEWED: N.C.

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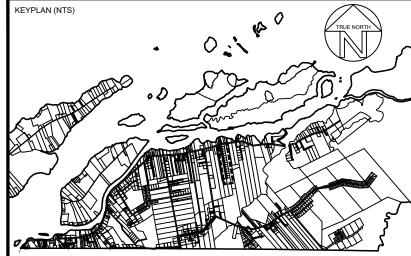
APPROVED: N.C. / D.T.S.











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JP2G FOR DIRECTION SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. . DO NOT SCALE DRAWINGS. REFER ANY DIMENSIONAL CLARIFICATIONS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICTS TO MCA FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK.

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WATER SERVICE GENERAL NOTES:

NON-WOVEN GEOTEXTILE FABRIC.

YYYY-MM-DD BY

. TOP OF PROPOSED WATERMAIN SHALL BE 2.0M (MIN) BELOW GRADE.

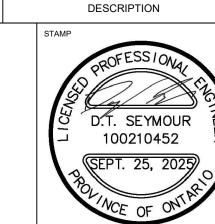
2. ALL PIPE DEFLECTIONS SHALL NOT EXCEED THE MAXIMUM ANGLE OF DEFLECTIONS AS SPECIFIED BY THE MANUFACTURER. MINIMUM 2.0M SEPARATION BETWEEN SERVICE CONNECTION FITTINGS AND MAIN FITTINGS.

LAST 20M OF SERVICE TO BE DOWNSIZED TO 25mm DIA. TO HOUSE / RESIDENTIAL UNIT. UTILITY POLES TO BE PROTECTED DURING CONSTRUCTION ACTIVITY ADJACENT TO POLES. CONTRACTOR TO REVIEW PROPOSED METHOD OF PROTECTION OF UTILITY POLES WITH BELL OR QUEBEC HYDRO, DEPENDING ON SERVICE LOCATION.

 A TRENCH BOX DESIGN AND CERTIFIED BY AN ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF ONTARIO IS REQUIRED FOR ALL WATERMAIN EXCAVATIONS WITH ROAD RIGHT OF WAY, USE OF TRENCH BOX IS OPTIONAL ON ALL SIDE ROADS GIVEN PROPER BENCHING IS

6. LANEWAY RESTORATION TO INCLUDE 0.45M REMOVAL OF EXISTING LANEWAY GRANULAR MATERIAL AND REPLACE WITH 150mm GRAN. A', AND 300mm GRAN. B' TYPE II C/W

REQUEST FOR QUOTATIONS 2025-09-25 2025-02-20 66% DESIGN SUBMISSION 2025-01-31 DS/TN ISSUED FOR INITIAL REVIEW

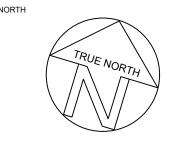


MCA - RESIDENTIAL WATERLINE CONNECTIONS & SOA

AKWESASNE, QUEBEC

TSISNAIHNE DISTRICT - PAUL CREE MEM. ROAD CONNECTIONS

MCA PROJECT No.: 25-3016A



CLIENT No.: DRAFTED: D.T.S. DESIGNED: D.T.S. REVIEWED: N.C.

APPROVED: N.C./D.T.S.

C-1

SCALE 1:500