



Request for Tender

Project Title: Joe Chartrand Park Stage

Request #: 2019-29

Date: August 26, 2019

Municipality of French River

44 St. Christophe Street, Suite 1

P.O. Box 156

Noëlville, ON, P0M 2N0

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Confidentiality Statement

This document, and any attachments thereto, regardless of form or medium, is intended only for use by the addressee(s) and may contain legally privileged and/or confidential, copyrighted, trademarked, patented or otherwise restricted information viewable by the intended recipient only. If you are not the intended recipient of this document please respond to the originator of this message and permanently dispose any copies and any attachments. Thank you for your consideration, Municipality of French River.

Submission Details

Submission Deadlines and Methods

All submissions for responding to this request must be submitted to our office, as stated below, no later than:

September 12, 2019 – No later than 2:00pm local time.

Successful candidate will be notified within 30 days of the proposal closing date

The use of mail for delivery of a tender will be at the risk of the respondent. Submissions sent in electronic format will **not** be accepted.

Tenders must be submitted in a sealed envelope and shall be clearly marked with the following:

- ☐ The Name and Address of the Respondent
- ☐ The Request Number: **#2019 – ****
- ☐ The Project Title: Joe Chartrand Park Stage

Tender submission shall include the following:

- ☐ Signed Declaration (Page #10)
- ☐ Schedule “A” – Price, Timeline, and Deliverables (Page #12)

Administration staff will affix on the sealed envelope:

- ☐ Date and time of receipt

Submission Delivery Address, Submission Questions and Clarifications

You may contact the following Lead Person if you have any questions or require clarification on any topics covered in this request for tender. The delivery address to be used for all submissions is:

Robert Martin
Director of Operations
Municipality of French River
44 St. Christophe Street, Suite 1
P.O. Box 156
Noëlville, ON, P0M 2N0
Tel: 705-898-2900
Fax: 705-898-1020
Email: pwdirector@frenchriver.ca

Submission Opening

Tenders will be publicly opened, and recorded on **September 12, 2019 at 2:05pm local time**, at the Municipal Office. Staff will review the proposal and the successful candidate will be presented at the next Council Meeting on **September 18, 2019**.

Amendment and Withdrawal of Submission

Requests for withdrawal of a submission shall be allowed if the request is made before the closing time for the contract to which it applies. Requests shall be directed to the Lead Person, by letter or in person, by a Senior Official of the company, with a signed withdrawal confirming the details. Telephone requests shall not be considered. The withdrawal of a tender submission does not disqualify a bidder from submitting another tender on the same contract.

Addendums

The Municipality may, at its discretion, amend or supplement the documents for this request by addendum at any time prior to the closing date for receipt of Proposals. Changes to the request documents shall be made by **ADDENDUM ONLY**. Such changes made by addendum shall be supplementary to and an integral part of the request. All addendum must be signed and included in the final submission acknowledging all addenda issued by the Municipality. While the Municipality will endeavor to provide notification of the issuance of an addendum to prospective Proponents, the Municipality assumes no liability for the notification and it is the responsibility of each Proponent monitor and determine whether any addenda have been issued by the Municipality.

Introduction and Executive Summary

The Municipality of French River (herein after referred to as the Municipality) is requesting tenders for the construction of the proposed Joe Chartrand Park Stage. The proposed Joe Chartrand Park Stage project includes the following work item:

- Item 1: Supply and construct proposed stage at Joe Chartrand Park.
 - Estimated quantities are estimates. Please double check for your calculations.
 - Please submit a copy of the concrete cylinder tests.

Details regarding the Items are provided in:

- a. Schedule "B" – Scope of Work
- b. Drawing S1 – Structural General Notes
- c. Drawing S2 – Structural Plans and Elevations
- d. Drawing S3 – Structural Sections and Details

Business Overview & Background

The Municipality of French River is a vibrant, welcoming and family-based community that is committed to positive, sustainable growth. A scenic environment, friendliness of neighbors', diversity of cultures and small Municipality feel makes French River the community of choice to live, work, visit and vacation.

Assumptions & Constraints

The Municipality will not be held liable for any errors or omissions in any part of this request. The information contained herein is supplied solely as a guideline for responding proponents. The information is not guaranteed or warranted to be accurate by the Municipality, nor is it necessarily comprehensive or exhaustive. Nothing in the request is intended to relieve proponents from forming their own opinions and conclusions with respect to the matters addressed in the request. Should the Municipality be contacted, no oral explanation or interpretation will modify any of the requirements or provisions of the proposal documents. Should changes be required, an addendum would be released under the same request number with an addendum occurrence.

The successful proponent will employ only orderly, competent and skillful employees to ensure that the services are carried out in a confidential and respectable manner.

The successful proponent will ensure all services and products provided in respect to this proposal are in accordance with, and under authorization of all applicable authorities, municipal, provincial and/or federal legislation.

The successful proponent and its employees may have access to information confidential to the Municipality. This information may include, but is not limited to, terms of this agreement, business methods and systems, contractual terms, pricing, personal information, etc. subject to disclosure by force of law, the successful proponent agrees that it and its employees who have access to this information will not either during the term of the agreement or at any time thereafter reveal to any third party any of this confidential information or use in any way, whether on the successful proponent's behalf or on behalf of any third party, any such information.

The successful proponent will, throughout the term of the contract, obtain and maintain in force a General Liability Insurance of not less than \$2,000,000 (per occurrence) inclusive, to indemnify and hold harmless the Municipality of French River against any liability for property damage or personal injury, including death which may arise from the Proponent's operations under this contract; and/or The successful Proponent will be required to provide Professional Liability Insurance coverage in the amount of not less than \$2,000,000.00 per occurrence.

The information, reports, documentation, plans, etc. that are a product of this award by the successful proponent, will become the exclusive property of the Municipality of French River.

Terms and Conditions

Relating to the submission document:

- ☐ **Costs, Deliverables & Timelines** – as set out in Schedule A
- ☐ **Provincial and Federal Taxes (H.S.T.)** – Tenders shall include applicable H.S.T. taxes. This tax shall be shown separate from the unit price. The proponent shall include with the executed documents, at the time of submission, on company letterhead, notification to the Municipality of their H.S.T. Registration Number (if any).
- ☐ **Declaration** - Signed declaration must be submitted (Page #10)
- ☐ **Security Deposit** - equal to 10% of the value of the tender in the form of a certified cheque, cash or Letter of Credit. This deposit will serve as a performance guarantee for the duration of the contract and for all sections of the contract.
- ☐ **Insurance** – Vendor shall provide a summary of their company's insurance coverage.
- ☐ **Other** - Proponents may include any additional information regarding their firm and/or services that may prove beneficial to the evaluation of the proposal. These would be provided in the form of appendices.

Relating to the Successful Candidates:

- **Contract** - The successful proponent may, within ten (10) days after being advised that they are the successful proponent, execute a contract in duplicate to the Municipality.
- **Equipment Damages** – The Municipality is not responsible for equipment damages or breakdowns. Should a piece of equipment need reparations, no equipment belonging to the proponent will be repaired at a Municipal Garage or other Municipal building.
- **Notice of Acceptance** - Notice of acceptance may be made by fax or telephone, with written confirmation of same to follow, to the successful proponent at the number given by the proponent.
- **Price** - The Proponent shall abide by the total price stated in the submission document. No further payments beyond the contract amount will be made for any additional services required to provide a satisfactory deliverable.
- **Field Work Instruction (FWI)** – If any additional requirements are requested by the Municipality beyond the original scope of work described in this Tender, the cost of these services would be negotiated between the Municipality and the company that has been selected to perform the work. Any additional work will only be undertaken based on a request in writing from the Municipality in the form of an FWI.
- **Payment** – Payment shall be made upon receipt of invoice following the receipt of the product (net 30 days) with completion of the work to the satisfaction of the Municipality. The security deposit will be released upon completion of any deficiencies and receipt of payment by the Municipality of French River of any late fees owing as per the contract clause above.
- **Termination** - The Municipality reserves the right to immediately terminate the contract for sufficient cause, including but not limited to such items as non-performance, late deliveries, inferior quality, pricing problems, etc.
- **Public Record** - Any personal information required on the proposal form is received under the authority of the Municipality. This information will be an integral component of the quote submission. All written proposals received by the Municipality become a public record; once a

proposal is accepted by the Municipality, and a contract is signed, all information contained in it is available to the public including personal information.

Health and Safety

General: Contractor must comply with the Occupational Health and Safety Act (OHSA), the Regulations for Construction Projects, the Municipality of French River safety policy and as well as complying with the prescribed requirements legislated in the Regulations for Industrial Establishments.

Competent Person: Contractor is responsible using their training, knowledge and experience to protect the health and safety of their workers and others, reporting to their supervisor the absence of, or defect in any protective equipment or device, and reporting to their supervisor, any circumstances or conditions that may limit their ability to comply with the requirements of the OHSA and the Municipality of French River Safety policy.

Equipment & Tools: All equipment and tools used by the contractor shall conform to Canadian Standards Association (CSA) or manufacture specifications. The Municipality of French River reserves the right to prohibit the use of any equipment and methods or practices that do not conform to acceptable standards. Defective equipment and tools shall be removed from the work site premises immediately.

PPE: All workers must wear appropriate CSA approved eye protection, hearing protection, CSA approved hard hats, CSA approved foot protection and CSA approved gloves at all time while working on the job site.

Fall Protection: Safety harness and lanyard are required by anyone working more than 3 meters above a surface. The safety harness must be secured to a fixed support so that a worker cannot fall more than five feet. Proof of certification shall be submitted before starting any work at height.

WHMIS: No hazardous material is to be stored or used on work site by the contractor unless the prescribed requirements concerning labelling material safety data sheets (MSDSs) and worker instruction and training are met.

MSDS: Material safety data sheets for all hazardous products shall be kept on site.

Weekly Safety Meetings: Contractor shall conduct weekly safety meetings with their workers and identify concerns or potential hazards on the job site. Weekly safety meeting shall be signed by all workers and a copy of the safety meeting shall be submitted to the contract administrator weekly.

Proof of Training: The contractor shall submit within five (5) calendar days after the contract award, copies of WHMIS, copies of health and safety awareness, first aid certificate and certificates pertaining to the work being done for all workers working on the job site.

Reporting: Contractor must report immediately to the contract administrator all workplace incidents, near misses, injuries and illnesses and environmental damages. Contractor shall also report accidents/incidents to the ministry of labour or any other appropriate authority required by legislation.

Supervision: Contractor shall comply with OHSA regulations.

Health & Safety Station: Contractor shall provide at all time a dedicated station for workers to have access to the contractors H&S manual, the emergency response plan, the OH&S Pocket book, MSDS sheets, WSIB information, Eye wash stations and emergency aid kit.

WSIB: Contractor shall provide the Municipality with a current WSIB Clearance Certificate within five (5) days of contract award.

Selection Criteria

A combination of quality, experience and price will determine the successful firm. More specifically:

- The Proponent's overall experience and particularly in relation to similar projects.
- The Proponent's project management experience in managing subcontractors and delivering a seamless product to the client.
- The proven ability to stay within project budget and meet project completion target date.
- Any additional features or advantages uniquely proposed by the Proponent which the Municipality has not identified in the project deliverables or description.
- The Proponent's financial proposal.

The Municipality is not obligated to award the service contract to the lowest bidder. The Municipality reserves the right to reject any or all proposals and to waive formalities as the interests of the Municipality may require without stating reasons. The Municipality will not be responsible for any liabilities, costs, expenses, loss or damage incurred, sustained or suffered to any proponent. The proponent by reason of the acceptance or the non-acceptance by the Municipality of any proposal or by reason of any delay in the acceptance of a proposal as well any expenses incurred by the Proponent in the preparation of the proposal submission are entirely the responsibility of the Proponent and will not be charged to the Municipality.

Declaration

To: The Municipality of French River

Sirs: I/We the undersigned acknowledge receipt of and having carefully examined the Request for Tender, and "Scope of Work" set forth in Schedule "B" and hereby offer to submit this tender for the supply of in accordance with, and as required by the said documents at the price set forth in Schedule "A" hereto.

I/We understand and accept that the prices set forth in this Tender Form include full compensation to furnish all labour, equipment, materials and supplies and transpiration necessary or incidental to completing the work in strict accordance with said documents.

I/We understand that this Agreement terminates in the event that I fail to perform the work to the satisfaction of the Municipality.

I/We understand that the lowest or any tender will not necessarily be accepted and that TO BE CONSIDERED, Tender forms must be in by the closing date stated herein.

GENERAL CONDITIONS

1. The respondent shall discharge all liabilities incurred by him for labour, materials and services used or reasonably required for use in the performance of this Agreement on the date upon which each becomes due and all liabilities incidental thereto.
2. The respondent understands and agrees that he is not, nor is anyone hired by him, covered by the Municipality under The Workers' Compensation Act, and he shall be responsible for, and shall pay all dues and assessments payable under The Workers' Compensation Act, The Unemployment Insurance Act or any other Act, whether Provincial or Federal, in respect of himself, his employees and operations, and shall, upon request, furnish the Municipality with satisfactory evidence that he has complied with the provisions of any such Act. If he fails to do so, the Municipality shall have the right to withhold payment of such sum or sums of money due to him/her that would be sufficient to cover his/her default and the Municipality shall have the right to same.
3. The respondent covenants and agrees with the Municipality to indemnify it and save it harmless from all claims by third parties arising out of the performance of this Agreement.
4. The price, as proposed by the respondent, includes all limits of the work project.
5. The respondent declares that he has or will pay forthwith all Provincial and Federal Taxes that apply to the said equipment.
6. Notice of acceptance may be made by fax or telephone, with written confirmation of same to follow, to the respondent at the numbers given by the respondent.
7. No facsimile of proposals are accepted.
8. Any cost incurred due to charges being laid under the Health and Safety Act, Highway Traffic Act or the Ministry of Environment Rules and Regulations shall be the responsibility of the contractor.

Name and Address of the Respondent

Phone:

Fax:

Email:

The Respondent declares:

- No person, firm or Municipality other than the Respondent, has any interest in this proposal or in the proposed services for this proposal;
- This proposal is made without any connection, comparison of figures or arrangements with or knowledge of any other Municipality, firm or person making a proposal for the same service and is in all respect fair and without collusion or fraud;
- No member of the staff of the Municipality of French River is, or will become interested directly or indirectly; as a contracting party, partner shareholder, surety or otherwise; or in the performance of the service; or in the supplies, service or business to which it relates; or in any portion of the profits thereof; or in any of the monies to be derived there from;
- The content and requirements of this proposal document have been read and understood.
- All prices are quoted in Canadian funds.

All or any proposals not necessarily accepted.

Signed at _____ this _____ day of _____ 2019.

Print Name – Witness

Print – Respondent,

Title – Respondent

Signature – Witness

Signature – Respondent

Schedule "A" – Price, Timetable and Deliverables

Item 1: Supply and construction of proposed stage and shelter at Joe Chartrand Park.				
Items	Unit	Estimated Quantity	Unit Price	Total
Excavating	Lump Sum			
Screw Pile Foundation	1	8		
Concrete:	Lump Sum			
Materials and Labour:	Lump Sum			
Granular A (Compacted):	tonne	80		
Total				

Timetable and Deliverables (Please provide details in the following format)		
Task	Start Date	Completion Date
Excavating		
Screw Pile Foundation		
Construction of Slab:		
Construction of Shelter/Stage:		
Proposed Delivery of Final Product:		

*An agreeable delivery date will be chosen upon award.

Schedule “B” – Scope of Work

B.1 General Notes

1. All work shall be completed in accordance with the permit conditions and laws for the province of Ontario.
2. The CONTRACTOR shall verify all conditions and measurements at the site and report to the OWNER any discrepancies or unsatisfactory conditions which may adversely affect the proper completion of the project before proceeding with the work.
3. Utility locates are the responsibility of the CONTRACTOR and shall be carried out prior to execution of any work.
4. Reference elevations shown correspond to action geodetic elevation in meters.
5. Approved shall mean approved in writing by the OWNER or ENGINEER.
6. Following Contract execution, a pre-construction meeting will be scheduled with the successful bidder. The successful bidder will be required to submit a construction progress schedule to the OWNER along with any documentation that may be required by the Health and Safety Act.

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GENERAL

1. ALL CODES REFERENCED ARE TO BE THE LATEST VERSION AT THE DATE OF ISSUE.
2. DESIGN IS BASED ON THE ONTARIO BUILDING CODE 2012.
3. READ THESE DESIGN NOTES IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
4. OBTAIN ENGINEER'S APPROVAL BEFORE CUTTING, BORING, OR SLEEVEING LOAD-BEARING MEMBERS UNLESS NOTED OTHERWISE.
5. THE STRUCTURAL DRAWINGS ARE FOR THE COMPLETED PROJECT. STABILITY OF NEW STRUCTURE DURING CONSTRUCTION REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.
6. MINIMUM CODE AND BY-LAW REQUIRED OFFSET DISTANCES MUST BE MAINTAINED BETWEEN THE NEW STRUCTURE AND EXISTING BUILDINGS AND PROPERTY LINES.
7. COORDINATE PLACEMENT AND LOCATION OF ITEMS BY SUBSEQUENT TRADES. RELEVANT TRADES SHALL REVIEW PRIOR TO ERECTION AND/OR INSTALLATION.
8. NOTIFY THE ENGINEER A MINIMUM OF 24 HOURS PRIOR TO ANY REQUIRED SITE REVIEWS.
9. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS OF THE JOB AND SHALL INFORM THE CONSULTANT OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS.
10. REVIEW ALL DRAWINGS AND CHECK DIMENSIONS PRIOR TO IMPLEMENTING THE WORK. REPORT ANY DISCREPANCIES TO THE CONSULTANT FOR CLARIFICATION BEFORE PROCEEDING.

DESIGN LOADS

VERTICAL FORCE DATA – ROOF

DL = 0.5 kPa
SNOW = 2.26 kPa (SUDBURY, ONTARIO)
LL = 1 kPa

LATERAL FORCE DATA

- a) SEISMIC (SUDBURY, ONTARIO)

SEISMIC DESIGN ASSUMES SITE CLASS "D"
SFRS = LIMITED DUCTILITY TIMBER BRACED FRAME, AS PER OBC 2012 TABLE 4.1.8.9

So(0.2) = 0.15
So(0.5) = 0.10
So(1.0) = 0.059
So(2.0) = 0.020
PGA = 0.051
Ie = 1.0
Fa = 1.3
Fv = 1.4
Rd = 1.5
Ro = 1.5
Ta = 0.1
S(Ta) = 0.195
Mv = 1.0
W = 1.0D + 0.25S = 87kN

Vbase = 5.2 kN (N-S/E-W)

- b) WIND (SUDBURY, ONTARIO)

p = lwqCeCpCg
WIND DESIGN ASSUMES FULLY OPEN STRUCTURE

ROOF UPLIFT:
lw = 1.0 q = 0.46 kPa Ce = 0.9 CpCg (FIGURE I-13) = -2.25
p = -0.93 kPa

NORTH-SOUTH & EAST-WEST:
lw = 1.0 q = 0.46 kPa Ce = 0.9 CpCg (WINDWARD) = 1.15 CpCg (LEEWARD) = -0.8
p = +0.48 kPa (WINDWARD) p = -0.33 kPa (LEEWARD)

DELEGATED DESIGN

1. PORTIONS OF THE DETAILED DESIGN ARE DELEGATED TO THE CONTRACTOR. RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO TO COMPLETE THE DESIGN.
2. SUBMIT SHOP DRAWINGS FOR COMPONENTS REQUIRING DELEGATED DESIGN UNDER THE SEAL AND SIGNATURE OF THE ENGINEER RESPONSIBLE FOR THE DESIGN.
3. THE FOLLOWING COMPONENTS REQUIRE DELEGATED DESIGN:
 - 3.1. WOOD TO WOOD CONNECTIONS.
 - 3.2. SCREW PILE (HELICAL PILE) FOUNDATIONS AND COLUMN CONNECTIONS.
4. THE ENGINEER RESPONSIBLE FOR THE DESIGN IS ALSO RESPONSIBLE FOR REVIEW OF FABRICATION AND INSTALLATION OF THE COMPONENTS. UPON COMPLETION OF THE WORK, CERTIFY IN WRITING TO THE CONSULTANT THAT SUCH REVIEW HAS BEEN COMPLETED.

INSPECTIONS AND TESTING

THE FOLLOWING ITEMS SHALL BE INSPECTED OR TESTED BY INDEPENDENT INSPECTION/TESTING AGENCIES PAID FOR BY THE CONTRACTOR. MATERIALS AND WORKMANSHIP NOT CONFORMING TO THE SPECIFICATIONS SHALL BE REJECTED BY THE CONTRACTOR. REPORTS AND TEST RESULTS SHALL BE PROMPTLY SUBMITTED TO THE ENGINEER FOR REVIEW. TESTING SHALL INCLUDE BUT NOT BE LIMITED TO:

CONCRETE

CONCRETE TESTING IN ACCORDANCE WITH CSA A23.2-14, INCLUDING THE REQUIREMENTS OF SLUMP, AIR, AND AGE PRIOR TO BEING USED. CONTRACTOR TO KEEP RECORDS OF POUR DATES, TESTING PERFORMED, CLASS OF CONCRETE USED WITH LOCATION, AND TEST RESULTS FOR ALL ITEMS POURED. A MINIMUM OF THREE (3) CONCRETE CYLINDERS SHALL BE TESTED PER POUR FOR COMPRESSIVE STRENGTH.

TESTING TO DETERMINE THE IN-SITU STRENGTH OF CONCRETE FOR EARLY FORM REMOVAL PURPOSES WITH THE TYPE OF TEST BEING DETERMINED ON THE ADVICE OF THE TESTING AGENCY. REPAIRS NECESSARY TO THE STRUCTURE AS A RESULT OF THESE TESTS SHALL BE MADE BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

SHOP DRAWINGS AND SUBMITTALS

GENERAL

1. REPRODUCTIONS OF THE STRUCTURAL DRAWINGS SHALL NOT BE ACCEPTED AS SHOP DRAWINGS.
2. "PROFESSIONAL ENGINEER" IN THE FOLLOWING PARAGRAPHS SHALL BE REGISTERED AND LICENSED TO PRACTICE IN THE PROVINCE OF ONTARIO.
3. REVIEW OF DRAWINGS APPLIES TO GENERAL ARRANGEMENT ONLY FOR THE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT. THIS REVIEW DOES NOT IMPLY APPROVAL OF DETAIL DESIGN OR QUANTITIES IN SUBMITTED DRAWINGS, NOR DOES IT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR MAKING THE WORK COMPLETE, ACCURATE, AND IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS. ALLOW 5 WORKING DAYS FOR SHOP DRAWING REVIEW.
4. DO NOT FABRICATE MATERIALS BASED ON REJECTED OR DISAPPROVED SHOP DRAWINGS.

REINFORCED CONCRETE

SUBMIT FOR REVIEW REINFORCEMENT PLACING DRAWINGS AND BAR LISTS FOR EVERY PORTION OF THE STRUCTURE.

CONCRETE

SUBMIT FOR REVIEW ALL PROPOSED CONCRETE MIX DESIGNS. SUBMIT AT LEAST 10 WORKING DAYS PRIOR TO START OF WORK.

WOOD

SUBMIT FOR REVIEW ALL PLANS AND DETAILS OF WOOD FRAMING. ALL WOOD TO WOOD CONNECTIONS SHALL BE DESIGNED AND THE DRAWINGS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER.

SCREW PILE FOUNDATIONS

SUBMIT FOR REVIEW ALL PLANS AND DETAILS OF SCREW PILE (HELICAL PILE) FOUNDATIONS AND COLUMN CONNECTIONS. ALL SCREW PILE FOUNDATIONS AND COLUMN CONNECTIONS SHALL BE DESIGNED AND THE DRAWINGS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER.

FOUNDATION AND GEOTECHNICAL NOTES

1. REMOVE ALL ORGANIC MATERIAL FROM THE BUILDING AREA.
2. BEARING SURFACES TO BE INSPECTED IN THE FIELD BY A PROFESSIONAL GEOTECHNICAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO PRIOR TO PLACING CONCRETE. IMPROVE SUBGRADE AS DIRECTED IN WRITING BY A PROFESSIONAL GEOTECHNICAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
3. CONTRACTOR SHALL ENGAGE A PROFESSIONAL GEOTECHNICAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO TO INVESTIGATE AND EVALUATE ALL SOIL PROPERTIES REQUIRED FOR THE DESIGN OF SCREW PILE FOUNDATIONS.
4. GEOTECHNICAL TESTING AGENCY TO BE APPROVED BY AND RESPONSIBLE TO THE ENGINEER AND PAID FOR BY THE CONTRACTOR.

CAST-IN-PLACE REINFORCED CONCRETE

1. CONCRETE MATERIALS, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-A23.1.
2. SUPPLY CONTROLLED CONCRETE IN ACCORDANCE WITH CSA-A23.1 WITH PROPERTIES NOTED IN CONTROLLED CONCRETE TABLE.
3. NOTIFY CONSULTANT 24 HOURS PRIOR TO CONCRETE POURS TO ALLOW FOR REVIEW OF REINFORCEMENT.
4. DO NOT USE ADMIXTURES CONTAINING CALCIUM CHLORIDE.
5. NO ADDITIONAL WATER SHALL BE ADDED AT THE JOB SITE. CONCRETE WHICH HAS BEEN WATERED OR DOES NOT MEET SPECIFICATIONS SHALL BE REJECTED BY THE GENERAL CONTRACTOR.
6. FIELD AND LABORATORY TESTING OF CONCRETE TO BE COMPLETED BY A THIRD PARTY TESTING AND INSPECTION AGENCY. TESTING AGENCY SHALL BE CERTIFIED TO CSA-A283 AND TESTING TO BE COMPLETED IN ACCORDANCE WITH CSA-A23.2. TESTING PAID FOR BY CONTRACTOR.

CONTROLLED CONCRETE					
TO BE READ IN CONJUNCTION WITH CAST-IN-PLACE REINFORCED CONCRETE DESIGN NOTES					
ALL CONCRETE WORK TO BE IN ACCORDANCE WITH THE CSA STANDARDS CAN/CSA-A23.1-14 AND CAN/CSA-A23.3-14 WITH THE FOLLOWING FURTHER PROVISIONS.					
CONCRETE ELEMENT	CLASS OF EXPOSURE	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (MPa)	MAXIMUM AGGREGATE SIZE (mm)	SLUMP (mm)	CEMENT TYPE
SLABS ON GRADE	C-1	35	20	80±30	USE GU, GUB, OR GUL

CONCRETE REINFORCEMENT

1. REINFORCEMENT STEEL TO CONFORM TO CSA-G30.18 GRADE 400.
2. CLEAR CONCRETE COVER TO REINFORCEMENT – REFER TO CLEAR CONCRETE COVER TO REINFORCEMENT TABLE.
3. STANDARD END HOOK LENGTHS FOR REINFORCEMENT – REFER TO STANDARD END HOOKS TABLE.
4. SPLICE LENGTHS FOR REINFORCEMENT – REFER TO REINFORCEMENT SPLICES TABLE.
5. DO NOT WELD REINFORCEMENT UNLESS APPROVED IN WRITING BY THE ENGINEER.
6. SUBMIT SHOP DRAWINGS AND DETAILS FOR ALL REINFORCEMENT FOR REVIEW PRIOR TO FABRICATION.
7. NOTIFY THE ENGINEER PRIOR TO CONCRETE PLACEMENT TO ALLOW FOR REVIEW OF REINFORCING.
8. ALL REINFORCEMENT TO BE SUPPORTED AT 900 mm MAXIMUM SPACING.

CLEAR CONCRETE COVER TO REINFORCEMENT				
TO BE READ IN CONJUNCTION WITH CONCRETE REINFORCEMENT DESIGN NOTES				
EXPOSURE CONDITION	EXPOSURE CLASS			
	N	F-1, F-2, S-1, S-2, S-3	C-XL, C-1, C-2, C-3, A-1, A-2, A-3	
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	–	75 mm	75 mm	
SLABS ON GRADE	20 mm	40 mm	60 mm	
RATIO OF COVER TO NOMINAL BAR DIAMETER	1.0	1.5	2.0	
RATIO OF COVER TO NOMINAL MAXIMUM AGGREGATE SIZE	1.0	1.5	2.0	
NOTE: THE LARGEST COVER REQUIRED FOR ANY ONE ELEMENT SHALL GOVERN.				

STANDARD END HOOKS								
TO BE READ IN CONJUNCTION WITH CONCRETE REINFORCEMENT DESIGN NOTES								
BAR SIZE	10M	15M	20M	25M	30M	35M	45M	55M
90 HOOK LENGTH	180							
180 HOOK LENGTH	140							

REINFORCEMENT SPLICES			
TO BE READ IN CONJUNCTION WITH CONCRETE REINFORCEMENT DESIGN NOTES			
BAR SIZE	COMPRESSION SPLICE (mm)	TENSION SPLICE (mm)	
		VERTICAL OR BOTTOM HORIZONTAL BARS	TOP HORIZONTAL BARS
10M	300	400	500
NOTE 1: THIS TABLE IS BASED ON NORMAL WEIGHT CONCRETE f'c = 35 MPa AND ON UNCOATED REINFORCING STEEL fy = 400 MPa.			
NOTE 2: TOP HORIZONTAL BARS ARE DEFINED AS HORIZONTAL REINFORCEMENT PLACED SUCH THAT MORE THAN 300mm OF CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.			
NOTE 3: FOR STANDARD EMBEDMENT DEPTH INTO CONCRETE, DIVIDE BASIC TENSION LAP SPLICE NUMBERS BY 1.3.			

SLAB ON GRADE

1. SLAB ON GRADE TO BE PLACED ON COMPACTED GRANULAR MATERIAL AS INDICATED ON THE DRAWINGS. COMPACTION TESTS ON FILL MATERIAL TO BE CARRIED OUT PRIOR TO SLAB ON GRADE PLACEMENT.
2. PROVIDE APPROVED PRE-FORMED KEYED CONTROL JOINTS OR SAW CUT (WITHIN 24 HOURS) AT MAXIMUM SPACING OF 4m. CUT 40mm DEPTH AND FILL WITH APPROVED MASTIC JOINT FILLER.
3. SUBMIT FOR REVIEW LAYOUT DRAWING WITH CONSTRUCTION JOINT LOCATIONS AND SAW CUT PATTERN.
4. MAINTAIN MINIMUM SPECIFIED THICKNESS AT ALL DEPRESSIONS AND CHANGES IN ELEVATION.

CONCRETE FORMWORK

1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CAN/CSA-S269.3.

TIMBER

1. NEW WOOD STRUCTURAL FRAMING SHALL COMPLY WITH CSA 086, THE LOAD REQUIREMENTS OF PART 4, AND THE PRESCRIPTIVE CONSTRUCTION REQUIREMENTS OF PART 9 OF THE ONTARIO BUILDING CODE, UNLESS OTHERWISE NOTED.
2. BOLTS TO CONFORM TO ASTM A307.
3. UNLESS OTHERWISE NOTED, LIMIT ALLOWABLE DEFLECTION FOR TIMBER MEMBERS TO THE FOLLOWING:
 - LIVE/SLS SNOW LOAD – SPAN/360
 - TOTAL LOAD – SPAN/240
4. DESIGN CONNECTIONS IN ACCORDANCE WITH CSA-086 AND CSA-S16 FOR THE LOADS INDICATED ON THE DRAWINGS.
2. HANGERS SHALL BE DESIGNED TO DEVELOP FULL CAPACITY OF MEMBERS.
3. PROVIDE A MINIMUM OF 2 BOLTS IN BOLTED CONNECTIONS.
4. SUPPLY TIMBER WITH PROPERTIES NOTED IN TIMBER GRADE TABLE.
5. PROVIDE BRIDGING AS PER PART 9 OF OBC 2012.

TIMBER GRADES	
TO BE READ IN CONJUNCTION WITH TIMBER DESIGN NOTES	
MEMBER TYPE	GRADE
SAWN LUMBER	
RAFTERS, LADDER JOISTS	S-P-F NO. 1 GRADE PRESSURE-TREATED
BEAMS, COLUMNS	S-P-F NO. 1 GRADE PRESSURE-TREATED
GLUED-LAMINATED TIMBER	
BEAMS	D. FIR-L 24f-Ex STRESS GRADE PRESSURE-TREATED

WOOD SHEATHING / DIAPHRAGMS

1. PLYWOOD SHALL MEET THE REQUIREMENTS OF EITHER CSA 0121 DOUGLAS FIR PLYWOOD (DFP) OR CSA 0151 CANADIAN SOFTWOOD PLYWOOD (CSP), UNLESS NOTED OTHERWISE.
2. PLYWOOD THICKNESS SHALL REFER TO SANDED GRADE.
3. INSTALLATION LAYOUT AS FOLLOWS:
 - 3.1. STANDARD PANEL SHALL BE 1220mm x 2440mm
 - 3.2. INSTALL WITH LONG DIMENSION AT RIGHT ANGLE TO SPAN OF JOISTS
 - 3.3. STAGGER THE SPACING OF ADJACENT PANELS
 - 3.4. MINIMUM PANEL SHALL BE 610mm WIDE AND HAVE TWO SPANS. WHERE MINIMUM CANNOT BE MET PROVIDE 38x266 BLOCKING AT FREE ENDS WITH 6-89mm COMMON WIRE NAILS (3 E.S.) BOTH ENDS
 - 3.5. MINIMUM END BEARING 19mm
4. INSTALLATION OF ROOF SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF CLAUSE 9.23.15 OF OBC 2012.
5. ROOF SHEATHING SHALL BE PRESSURE-TREATED 19mm T&G FIR PLY GLUED AND NAILED WITH 63mm LONG (2 1/2" COMMON NAIL) – 3.25mm DIAMETER NAILS AT 100mm AROUND PANEL EDGES AND AT 200mm TO INTERMEDIATE FRAMING UNLESS NOTED OTHERWISE

WOOD FASTENERS

1. FASTENERS SHALL COMPLY WITH CSA 086.



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Legend

Notes

A	REVISED CONCRETE PIERS TO SCREW PILES	P.S.	C.v.T.
Revision		By	Appd.
3	ISSUED FOR TENDER	P.S.	C.v.T.
2	ISSUED FOR 99% REVIEW	P.S.	C.v.T.
1	ISSUED FOR DRAFT REVIEW	P.S.	C.v.T.
Issued		By	Appd.
File Name:	16330297_Stage_Shelter.dwg	P.S.	P.S.
		Dwn.	Chkd.
			Dsgn.

Permit-Seal



Client/Project

Municipality of French River

JOE CHARTRAND PARK
STAGE SHELTER

French River, ON

Title

STRUCTURAL
GENERAL NOTES

Project No.
163302597

Scale
AS INDICATED

Drawing No.

Sheet

Revision



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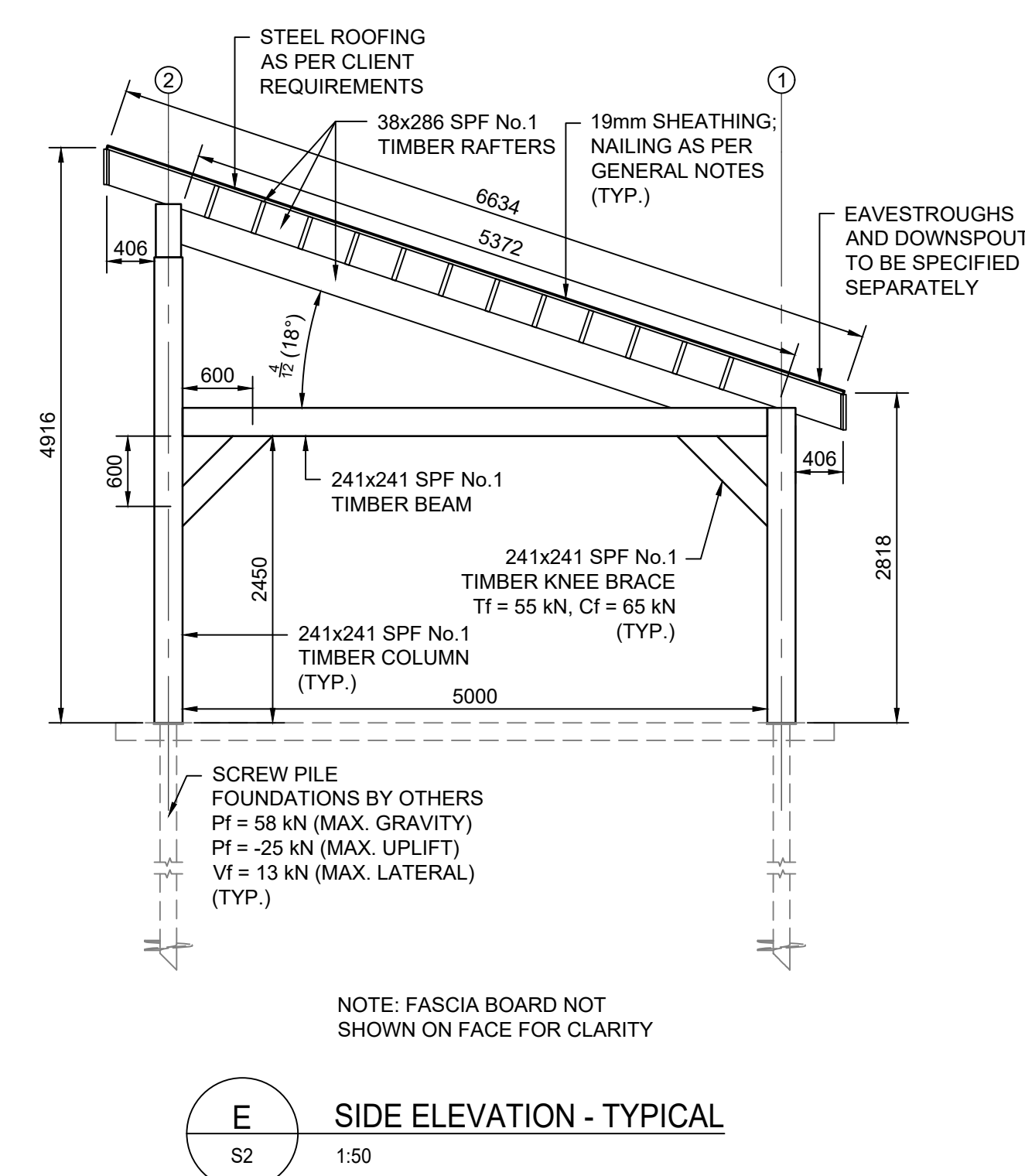
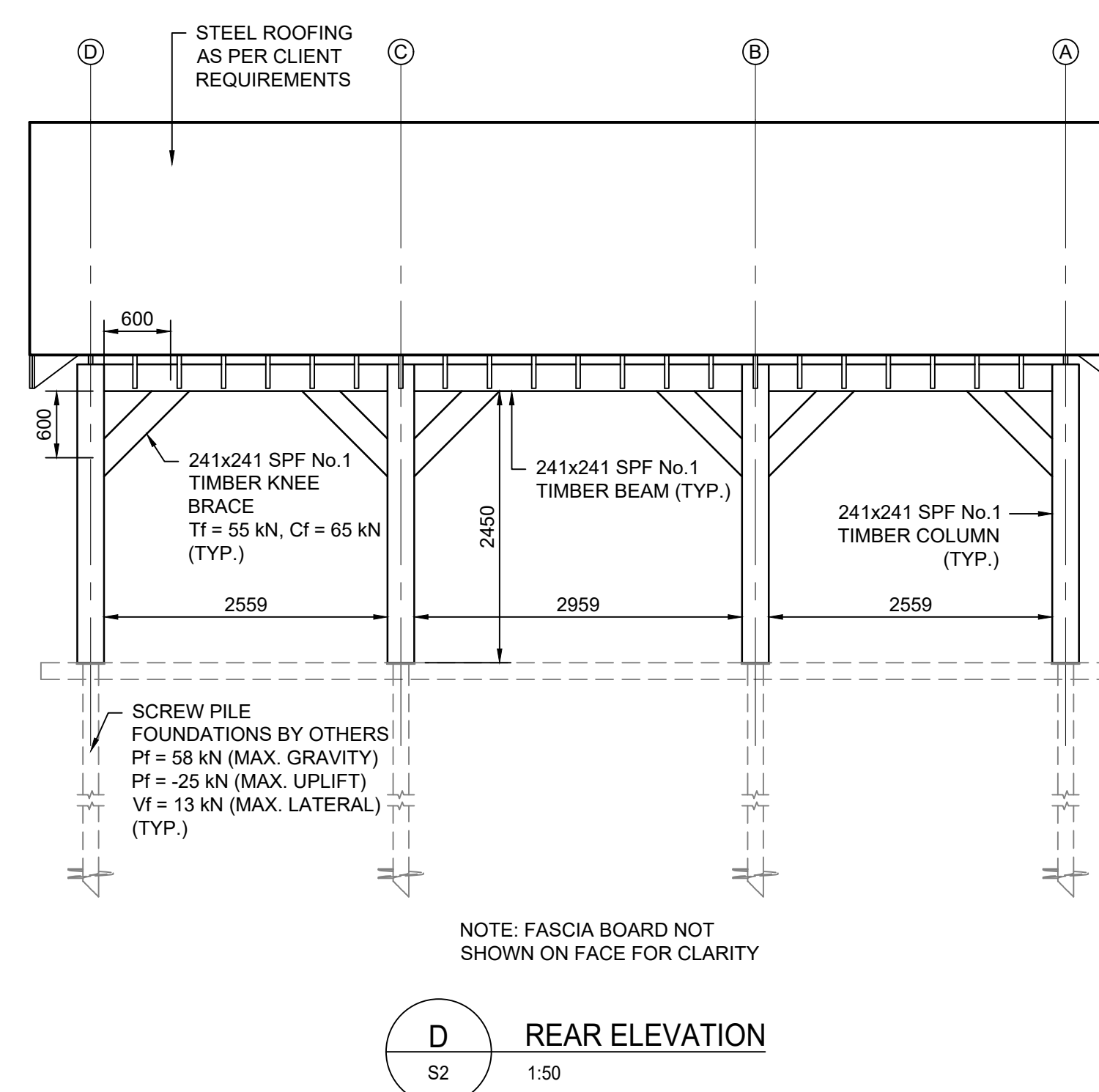
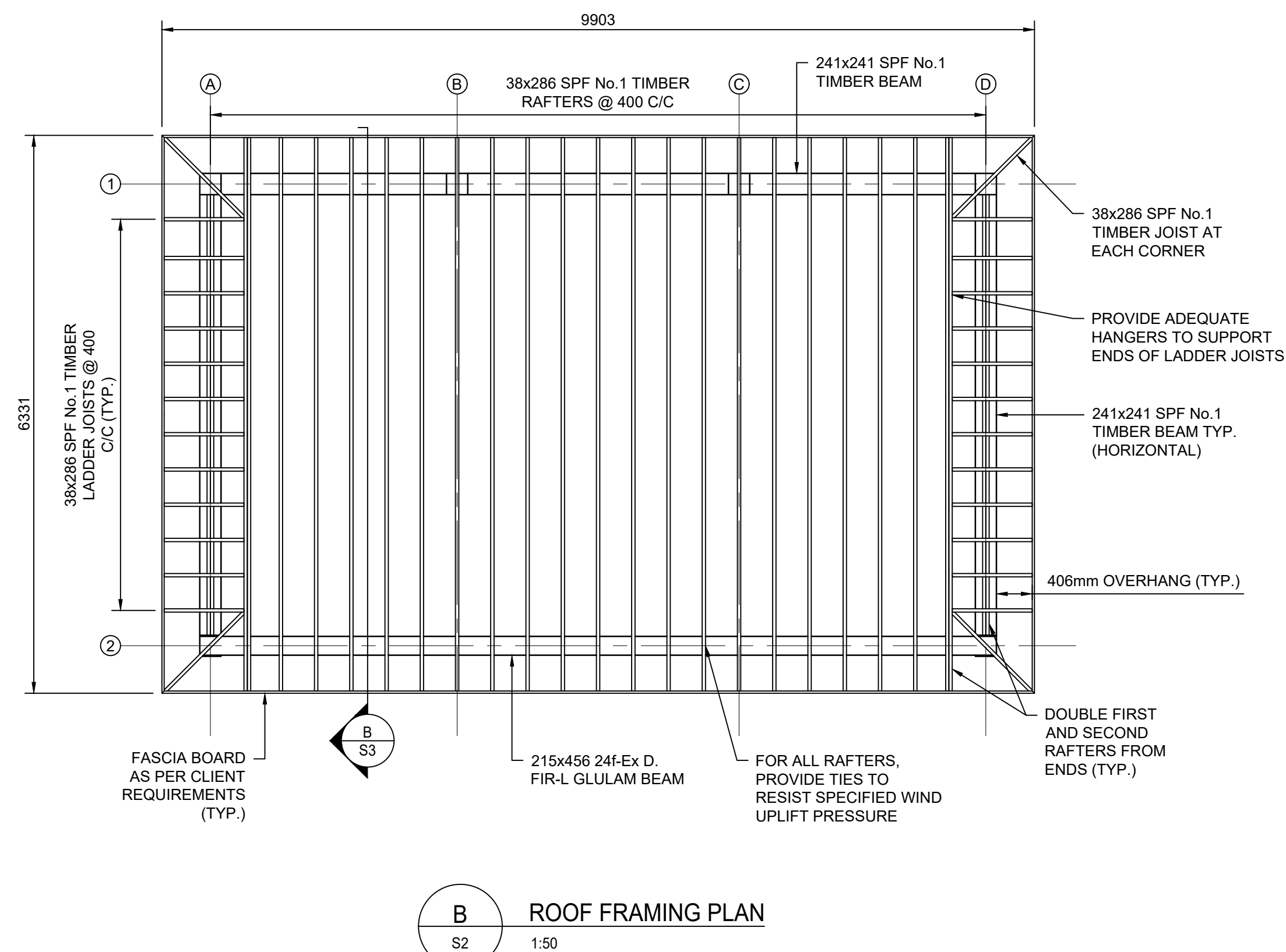
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Legend

This Drawing to be Read in Conjunction with the General Notes on Drawing S1

Project No. 163302597	Scale AS INDICATED
Drawing No.	Sheet
	Revision

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Notes

This Drawing to be Read in Conjunction with the General Notes on Drawing S1

A	REVISED CONCRETE PIERS TO SCREW PILES	P.S.	C.v.I.	19.08.09
Revision		By	Appd.	YY.MM.DD

3	ISSUED FOR TENDER	P.S.	C.v.I.	18.12.06
2	ISSUED FOR 99% REVIEW	P.S.	C.v.I.	18.11.23
1	ISSUED FOR DRAFT REVIEW	P.S.	C.v.I.	18.11.14
Issued		By	Appd.	YY.MM.DD

File Name:	163302597_Stage_Shelter.dwg	P.S.	C.v.I.	P.S.	19.08.09
		Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal



Client/Project
Municipality of French River

JOE CHARTRAND PARK
STAGE SHELTER
French River, ON

Title
STRUCTURAL
SECTIONS AND DETAILS

Project No.	Scale	
163302597	AS INDICATED	
Drawing No.	Sheet	Revision

S3

3 of 3

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