GENERAL NOTES 1. CONFORM TO THE REQUIREMENTS OF THE 2012 ONTARIO BUILDING CODE (OBC) INCLUDING ALL THE LATEST STANDARDS REFERENCED THEREIN, AND ANY APPLICABLE ACTS OF AUTHORITY HAVING JURISDICTION. THE LATEST VERSION OF ALL STANDARDS AND CODES LISTED BELOW SHALL BE

CONSTRUCTION NOTES

- 2. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER SPECIFICATIONS AND CONTRACT DOCUMENTS.
- WHERE DISCREPANCIES EXIST BETWEEN CONTRACT DOCUMENTS, INCLUDING DRAWINGS AND APPLICABLE CODES AND ACTS, THE MOST STRINGENT SHALL GOVERN. CONTRACTOR SHALL CHECK ALL DIMENSIONS ON WORKING DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 4. THESE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT AND THERE ARE NO REPRESENTATIONS OF ANY KIND MADE BY THE DESIGN PROFESSIONAL TO ANY PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS NOT ENTERED INTO A CONTRACT.
- 5. THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISION COLUMN, DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION" BY MTE CONSULTANTS.
- 6. UNDER NO CIRCUMSTANCES ARE THESE DRAWINGS TO BE SCALED, INCLUDING FOR PREPARATION OF SHOP DRAWINGS, CONSTRUCTION LAYOUT, OR BIDDING PURPOSES. ERRORS MADE BY PERSONS SCALING THESE DRAWINGS SHALL NOT BE THE RESPONSIBILITY OF MTE CONSULTANTS.
- 7. BEFORE PROCEEDING WITH WORK, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIARIZED WITH ALL CHARACTERISTICS AFFECTING NEW AND EXISTING CONSTRUCTION, ANY CHANGES, ALTERATIONS OR REVISIONS MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 8. SUBSTITUTIONS FROM SPECIFIED PRODUCTS AND MATERIALS MUST BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO ORDERING OF MATERIALS. THE CONTRACTOR SHALL REIMBURSE ALL CONSULTANTS FOR ADDITIONAL COSTS INCURRED AS A RESULT OF REVIEWING ANY CHANGES MADE TO THE CONTRACT DOCUMENTS.
- 9. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS -O.REG. 213/91.
- 10. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN ALL SHORING AND TEMPORARY BRACING AS PER O.REG 213/91 AND THE CONTRACTOR SHALL RETAIN AN ENGINEER AS REQUIRED.
- 11. THE CONTRACTOR SHALL RETAIN AN INDEPENDENT INSPECTION AND TESTING COMPANY TO ENSURE THAT ALL WORK IS DONE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. REQUIRED TESTING SHALL BE AS PER THE TESTING AND INSPECTION TABLE.
- 12. MTE CONSULTANTS WILL PROVIDE GENERAL REVIEW OF CONSTRUCTION IN ACCORDANCE WITH THE PERFORMANCE STANDARDS OF THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF ONTARIO BY MEANS OF A RATIONAL SAMPLING PROCEDURE TO DETERMINE WHETHER THE CONSTRUCTION OF THAT WORK SHOWN ON THE MTE DRAWINGS IS IN GENERAL CONFORMITY WITH THE PLANS, SKETCHES, DRAWINGS, AND SPECIFICATIONS FORMING PART OF THE CONTRACT DOCUMENTS PREPARED BY "MTE". THE CONTRACTOR IS SOLELY RESPONSIBLE FOR QUALITY CONTROL AND THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE CONTRACT, "MTE" SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSON PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE
- 13. IT IS THE RESPONSIBILITY OF BOTH THE OWNER AND THE CONTRACTOR TO NOTIFY THE ENGINEER OF CONSTRUCTION PROGRESS SO THE ENGINEER CAN COMPLETE GENERAL REVIEWS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A CONSTRUCTION SCHEDULE PRIOR TO STARTING THE WORK. GENERALLY, REVIEWS BY THE ENGINEER WILL BE REQUIRED FOR REBAR PRIOR TO CONCRETE PLACEMENT, FOOTING AND FOUNDATIONS PRIOR TO BACKFILLING, AND ABOVE GRADE FRAMING PRIOR TO INSTALLATION OF INTERIOR FINISHES.

WITH THE CONTRACT DOCUMENTS.

TESTING AND INSPECTION

THE FOLLOWING ITEMS REQUIRE TESTING OR INSPECTION BY A CERTIFIED INDEPENDENT TESTING OR INSPECTION AGENCY UNLESS NOTED OTHERWISE. THE AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS TO THE ENGINEER

FOR REVIEW.		
ITEM	REQ'D?	COMMENTS
SOIL BEARING CAPACITY	YES	BY SOILS ENGINEE
SOIL COMPACTION	YES	BY SOILS ENGINEE
REINFORCING STEEL PLACEMENT	YES	INSPECT FINAL PLACEMENT
CONCRETE COMPRESSIVE TESTS	YES	MIN. 2 SETS PER 100 CUBIC METRE
CONCRETE SLUMP	YES	

12. DO NOT PLACE BACKFILL AGAINST WALLS RETAINING LUMBER EARTH (OTHER THAN CANTILEVERED RETAINING PROJECT DESIGN DATA TABLE WALLS) UNTIL THE WALLS AND THE FLOOR JILDING IMPORTANCE CATEGORY NORMAL CONSTRUCTIONS AT THE TOP AND BOTTOM OF THE WALLS HAVE BEEN CAST AND HAVE ATTAINED 100% SPECIFIED WIND LOADS OF THEIR DESIGN STRENGTH. IOURLY WIND PRESSURE (1/50)

q 0.44 kF

1.76 kPa

1.7 kP

1.0

Sr 0.4 kPa

24hr RAIN | 94 mm

Cb 0.8

Cw 1.0

Ca | 1.0

Sa(0.2) 0.173

Sa(0.5) 0.106

Sa(1.0) 0.06

Sa(5.0) 0.0076

Sa(10.0) 0.0032

Rd 2.0

Ro 1.7

Sa(2.0)

FaSa(0.2)

Cs

CATEGORY 2

DESIGN DATA:

FRAMING PLANS

DESIGN DATA:

ROOF SNOW LOAD.

SEISMIC LOADING

RESISTING SYSTEM

PROCEDURE.

THE DRAWINGS.

SEISMIC HAZARD INDEX

DESIGN DATA:

WIND DESIGN CATEGORY

BASIC ROOF SNOW LOAD:

FACTORS USED FOR BASIC

SNOW AND RAIN LOADING (1/50)

SPECIFIED DEAD AND LIVE LOADS

SPECIFIED SNOW AND RAIN LOADS

LOOR AND ROOF DESIGN LOADS AS NOTED ON

ADDITIONAL SNOW ACCUMULATION AROUND

*(SITE CLASS TO BE CONFIRMED SITE

SEISMIC FORCE MODIFICATION

2010 STRUCTURAL COMMENTARIES.

ITURE EXTENSION UNI ESS NOTED

STATIC FORCE PROCEDURE.

FACTORS FOR SEISMIC FORCE

BY GEOTECHNICAL ENGINEER) | CLASS*

MECHANICAL UNITS AND ADJACENT TO HIGHER ROOF

SPECIFIED FARTHOUAKE LOADS

ALL LOADS AND ANALYSIS CONFORM TO THE 2012

O.B.C. DIVISION B PART 4 AND THE USER'S GUIDE - NBC

ALL DESIGN DATA ABOVE IS FROM THE 2012 OBC

SEISMIC LOADING IS BASED ON THE EQUIVALENT

1. ALL BOREHOLE INFORMATION AND GEOTECHNICAL

REPORTED IN THEIR SOIL REPORT NO. 4161-005,

THOROUGHLY FAMILIARIZED WITH ITS FINDINGS.

UNDISTURBED SOIL OR COMPACTED FILL WITH A

MINIMUM SOIL BEARING CAPACITY OF 90 kPa (SLS)

AND 135 kPa (ULS) AT THE DEPTHS INDICATED ON

B. NO FOUNDATION MAY BE POURED BEFORE THE

GEOTECHNICAL ENGINEER. NOTIFY THE

BEFORE THE INTENDED CONCRETE POUR.

AREA BEFORE STARTING CONSTRUCTION.

MAXIMUM DRY DENSITY (SPMDD).

ANY WAY DURING EXCAVATION.

REQUIREMENTS.

CONSTRUCTION.

DRAWINGS

10. SLABS ON GRADE:

FOUNDATIONS

LEVELS REQUIRED.

4. REMOVE ALL TOPSOIL, ORGANIC LOOSE FILL AND

. WHERE APPROVED, GRANULAR FILL UNDER ALL

6. FOUND NEW FOOTINGS WHICH ARE LOCATED

SHALL BE TAKEN TO ENSURE THAT EXISTING

FOOTINGS ON GRADE SHALL BE COMPACTED IN

150mm (6") LAYERS TO 100% STANDARD PROCTOR

ADJACENT TO EXISTING FOOTINGS, AT THE SAME

NOTED OTHERWISE. ANY NECESSARY PRECAUTIONS

FOOTINGS ARE NOT DISTURBED OR UNDERMINED IN

7. FOUND ALL FOOTINGS BELOW THE LEVEL AT WHICH

BUT A MINIMUM 1200mm (4'-0") BELOW FINISHED

EXTERIOR GRADE, UNLESS NOTED OTHERWISE

LESS THAN LOCAL FROST PENETRATION

AND BELOW ALL FOUNDATIONS DURING

9. INSULATION IS SHOWN WHERE REQUIRED FOR

ARCHITECTURAL DRAWINGS FOR FOUNDATION

INSULATION NOT SHOWN ON THE STRUCTURAL

OF SAFELY SUPPORTING 25kPa WITHOUT

SETTLEMENT RELATIVE TO THE BUILDING

DUE TO FROST ACTION ONLY, REFER TO

UNDER NO CIRCUMSTANCES SHOULD DEPTH BE

8. PROTECT ALL SOIL FROM FREEZING ADJACENT TO

PROTECTION OF THE FOUNDATIONS FROM DAMAGE

1. PLACE SLABS ON GRADE ON MATERIAL CAPABLE

PROOF-ROLL EXISTING FILL MATERIAL. REMOVE

ON-GRADE BEFORE PLACING GRANULAR FILL.

APPROVED GRANULAR FILL UNDER ALL FLOOR

SLABS ON GRADE SHALL BE COMPACTED IN

CLEAR CRUSHED STONE OR COMPACTED

GRANULAR "A" OVER THE SUB-BASE AND

5. WHERE THE SLAB-ON-GRADE IS USED TO

11. CARRY OUT BACKFILLING AGAINST FOUNDATION

WALLS WHERE THERE IS GRADE ON BOTH SIDES IN

SUCH A MANNER THAT THE LEVEL OF BACKFILLING

TEMPORARY SHORING FOR THE WALL IS PROVIDED.

ON ONE SIDE OF THE WALL IS NEVER MORE THAN

500mm (20") DIFFERENT FROM THE LEVEL ON THE

OTHER SIDE OF THE WALL, EXCEPT WHERE

70% OF ITS SPECIFIED STRENGTH.

MAXIMUM DRY DENSITY (SPMDD)

ANY LOOSE OR SOFTENED AREAS BENEATH SLAB-

150mm (6") LAYERS TO 100% STANDARD PROCTOR

. BEFORE CASTING THE SLAB PLACE 150mm (6") OF

THOROUGHLY ROLL AND CONSOLIDATE TO THE

LATERALLY RESTRAIN THE TOP OF AN EARTH-

RETAINING WALL, ADEQUATELY SHORE THE WALL

UNTIL THE SLAB HAS BEEN CAST AND ATTAINED

ACTION CAN OCCUR FOR THE FINISHED STRUCTURE

POTENTIAL DAMAGE RESULTING FROM FROST

FLEVATION AS THE EXISTING FOOTINGS, UNLESS

OTHER DELETERIOUS MATERIAL FROM BUILDING

BEARING MATERIAL HAS BEEN APPROVED BY THE

GEOTECHNICAL ENGINEER A MINIMUM OF 24 HOURS

INVESTIGATION PERFORMED BY CAMBIUM INC. AS

DATED MARCH 29 2023, READ THIS REPORT, AND BE

DATA HAS BEEN OBTAINED FROM THE SOIL

2. ALL COLUMN AND WALL FOOTINGS SHALL BEAR

DIRECTLY ON NATURALLY CONSOLIDATED,

THE STRUCTURE HAS NOT BEEN DESIGNED FOR ANY

SUPPLEMENTARY STANDARD SB-1 TABLE 1.2

WIND LOADING IS BASED ON THE STATIC

LEVELS OR WALLS IS INDICATED ON THE DRAWINGS.

- 13. IN NO CASE SHALL HORIZONTAL CONTROL JOINTS BE 2. NAILS AND SPIKES SHALL CONFORM TO THE CSA ALLOWED IN ANY VERTICALLY SPANNING CONCRETE WALLS WITHOUT THE CONSENT OF THE ENGINEER.
- 14. THE FOUNDATION WALLS HAVE BEEN DESIGNED ASSUMING THAT THEY ARE NOT SUBJECT TO HYDROSTATIC PRESSURE. ENSURE PROVISIONS HAVE BEEN MADE FOR APPROPRIATE DRAINAGE OF GROUNDWATER.
- CONCRETE AND REINFORCING
- . ALL CONCRETE WORK TO CONFORM TO THE LATEST REQUIREMENTS OF CSA STANDARDS A23.1, A23.2 &
- REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA G30.18 GRADE 400R FOR REINFORCING STEEL AND BE DEFORMED HI-BOND HARD GRADE WITH MINIMUM YIELD STRENGTH OF Fy:
- . WELDING OF REINFORCING STEEL SHALL NOT BE PERMITTED UNLESS SPECIFICALLY NOTED ON THE DRAWINGS, IF PERMITTED, GRADE 400W DEFORMED REINFORCING STEEL IS TO BE USED AND WELDING IN ACCORDANCE WITH CSA W186.
- 4. DETAILING AND PLACING OF ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE REINFORCING STEEL INSTITUTE OF CANADA "MANUAL OF STANDARD

5. ALL REINFORCING STEEL SHALL BE SHOP FABRICATED

- TO INCLUDE HOOKS AND BENDS AS REQUIRED. 6. ALL REINFORCING LAP SPLICES SHALL CONFORM TO THE LATEST CSA STANDARD A23 3 AND ALL BAR
- SPLICES SHALL BE CLASS "B" TENSION SPLICES (UNO). NO BAR SPLICES SHALL BE LESS THAN IN THE TABLE BELOW. 2. INCREASE HORIZONTAL SPLICE LENGTHS IN THE
- TABLE BY 1.3 WHERE MORE THAN 300mm (12") OF FRESH CONCRETE IS CAST BELOW THE SPLICE.

CONCRETE	TENSION SPLICE (mm)			COMPRESSION
BAR SIZE	25MPa	30MPa	35MPa	COMPRESSION SPLICE (mm)
10M	400	400	400	450
	(16")	(16")	(16")	(18")
15M	600	600	600	450
	(24")	(24")	(24")	(18")

- 7. ALL HORIZONTAL BARS SHALL BE HOOKED 300mm (12") AROUND CORNERS.
- 8. ALL REINFORCING STEEL FABRICATION AND PLACEMENT DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW BEFORE FABRICATION.
- 9. REINFORCING BARS AND DOWELS SHALL BE SECURELY TIED IN PLACE SO AS TO MAINTAIN THEIR EXACT POSITION BEFORE AND DURING PLACEMENT OF CONCRETE, BAR SUPPORTS SHALL ONLY BE MADE OF PRECAST CONCRETE BLOCKS, PLASTIC OR WIRE.
- 10. ALL OIL, GREASE, MUD AND DEBRIS SHALL BE ENTIRELY REMOVED FROM THE REINFORCING STEEL AND ANCHOR BOLTS PRIOR TO THE PLACEMENT OF CONCRETE. REBAR SHALL BE STORED ON SITE IN A MANNER TO BE KEPT CLEAN AND FREE FROM **DELETERIOUS MATERIALS**
- 11. CONFORM TO THE CONCRETE COVER REQUIREMENTS OF CSA A23.1 AND THE FOLLOWING, UNLESS NOTED OTHERWISE 1. CONCRETE CAST AGAINST EARTH: 75mm (3")
- 12. CONCRETE PROPERTIES 1. ALL CONCRETE SHALL BE CSA CLASS F-2 (25 MPa) 2. CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE AT
- 13. WHEN SUPER-PLASTICIZERS ARE USED, THE SLUMP MAY BE INCREASED BEYOND THE VALUES GIVEN, BUT SHALL BE BELOW THE POINT WHERE SEGREGATION WILL OCCUR. THE COST OF SUPER-PLASTICIZERS SHALL BE INCLUDED IN THE COST OF CONCRETE.
- 14. DO NOT ADD WATER TO CONCRETE UNLESS WRITTEN APPROVAL GIVEN BY THE ENGINEER. IF HIGHER SLUMP CONCRETE IS DESIRED, CONCRETE SUPPLIER SHALL DESIGN AND SUPPLY ACCORDINGLY.
- 15. HOT AND COLD WEATHER CONCRETING SHALL COMPLY WITH ALL REQUIREMENTS OF CSA STANDARD A23.1. CALCIUM CHLORIDE ADDITIVES WILL NOT BE PERMITTED
- 16. ALL CONCRETE FORMWORK TOLERANCES AND SURFACE FINISHES SHALL COMPLY WITH CSA STANDARD A23.1 UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DRAWINGS.
- 17. WATER CURING OF CONCRETE IS RECOMMENDED. CURE AND PROTECT ALL CONCRETE IN ACCORDANCE WITH CSA A23.1 SECTION 7.4.
 - 18. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED SO AS TO COMPLETELY FILL THE FORM WITHOUT CAUSING UNDUE SEGREGATION. ANY DEFECTS IN THE HARDENED CONCRETE SHALL BE SATISFACTORILY REPAIRED OR SHALL BE REPLACED.
 - 19. CHECK ALL STRUCTURAL, MECHANICAL, ELECTRICAL AND ALL OTHER RELEVANT DRAWINGS FOR LOCATIONS AND SIZES OF BOLTS, SLEEVES AND OPENINGS.
- 20. SUPPLY AND SET SLEEVES, PIPE HANGERS, AND OTHER INSERTS AND OPENINGS AS INDICATED OR SPECIFIED ELSEWHERE
- FOR SLABS AND WALLS: ALL SLEEVES AND OPENINGS GREATER THAN 100mm (4") IN ANY DIMENSION OR REQUIRING THE CUTTING OF ANY REINFORCEMENT, AND NOT INDICATED ON STRUCTURAL DRAWINGS, MUST BE APPROVED BY
- THE ENGINEER 2. FOR MULTIPLE OPENINGS OR SLEEVES: IF WITHIN 600mm (24") OF EACH OTHER CONSULT ENGINEER FOR DIRECTION.
- 21. CONTROL JOINTS IN SLABS ON GRADE SHALL BE 1/4 THE THICKNESS OF THE SLAB. SPACING OF CONTROL J OINTS IN CONCRETE SLABS-ON-GRADE SHALL NOT EXCEED THE GREATER OF 30 TIMES THE THICKNESS OF THE SLAB OR 4500mm (15'-0") UNLESS NOTED ON THE DRAWINGS.

1. SAWN LUMBER PRODUCTS SHALL CONFORM TO THE 1. DESIGN METAL DECK IN CONFORMANCE WITH THE REQUIREMENTS OF CSA STANDARD 0141. ALL SAWN LUMBER IS TO BE SPF GRADE NO. 2 OR BETTER, INDICATED ON THE DRAWINGS UNLESS NOTED OTHERWISE

STEEL DECK

- STANDARD B111 "WIRE NAILS, SPIKES AND STAPLES".
- 3. ALL BOLTS AND THREADED ROD CONNECTING WOOD MEMBERS SHALL CONFORM TO ASTM A307.

CONSTRUCTION DETAIL	MIN. LENGTH OF NAILS mm (in)	MIN. NUMBER O SPACING OF NAII
FLOOR / CEILING JOIST TO PLATE	82 (3 1/4)	2
BUILT-UP HEADERS / LINTELS - ALONG LENGTH - SPACING OF ROWS	76 (3)	300mm (12") OC 64mm (2 1/2") O
STUD TO WALL PLATE - END NAIL - TOE NAIL	82 (3 1/4) 64 (2 1/2)	2 4
DOUBLE STUDS AT OPENINGS, OR STUD WALLS	76 (3)	750mm (30") OC
BOTTOM WALL PLATE TO JOISTS OR BLOCKING	82 (3 1/4)	400mm (16") OC
LINTELS TO STUDS - EACH END	82 (3 1/4)	50mm (2") OC VERT. EACH PL
ROOF TRUSS TO PLATE	(10) 8d	SIMPSON STROM TIE H1
WALL SHEATHING TO STUDS - ALONG EDGES - INTERMEDIATE SUPPORTS	51 (2) 51 (2)	150mm (6") OC

- FOUNDATION OR FLOOR SLAB WITH 16mm (5/8") DIAMETER ANCHOR BOLTS AT 1200mm (4'-0") O.C.
- AFTER FIRST INSTALLATION, AND EVERY SIX MONTHS THEREAFTER UNTIL NO APPRECIABLE CHANGE IS
- 7. ALL LUMBER FOR WOOD TRUSSES SHALL BE KILN DRIED AND WELL SEASONED IN ORDER TO PREVENT POSSIBLE DISTORTION OR DEFORMATION OF THE
- 8. DESIGN OF WOOD TRUSS SYSTEM: PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE DETAILS AND DESIGN LOADS SHOWN ON THE ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS, AND SHALL CONFORM TO THE REQUIREMENTS OF CSA 086.1 AND THE WOOD DESIGN MANUAL PUBLISHED BY THE CANADIAN WOOD COUNCIL
- EVALUATION OF TRUSS PLATES USED IN LUMBER 3. DETAIL TRUSSES TO BEAR FLAT ON THE BOTTOM CHORD AT ALL BEARING WALLS

STANDARD S347 "METHOD OF TEST FOR

2. TRUSS PLATES SHALL CONFORM TO THE CSA

4. DEFLECTION CRITERIA: VARIABLE LOADS = L/360, $TOTAL\ LOAD = L/180$ 5. DESIGN OF PERMANENT LATERAL BRACING OF WEB MEMBERS. 6. TRUSSES SHALL BE DESIGNED TO SUPPORT

THEIR SELF WEIGHT PLUS THE SUPERIMPOSED

TOP AND BOTTOM CHORD LOADS AS SHOWN ON

- THE DRAWINGS OR AS REQUIRED BY TPIC (WHICHEVER IS GREATER). 9. SHOP DRAWINGS OF THE ROOF TRUSSES INCLUDING LAYOUT OF THE TRUSSES, BRIDGING, BRACING, AND BEARING DETAILS (INCLUDING HOLD-DOWN CLIPS) SHALL BEAR THE STAMP OF A LICENSED PROFESSIONAL ENGINEER OF THE PROVINCE OF ONTARIO AND SHALL BE SUBMITTED TO THE
- TRUSS SHOP DRAWINGS ARE TO INDICATE THE LOCATION OF ALL GIRDER TRUSSES AND GIRDER TRUSS SUPPORT LOCATIONS AND REACTIONS. ADDITIONAL COLUMNS TO SUPPORT GIRDER TRUSSES MAY BE REQUIRED. 10. WOOD TRUSSES SHALL BE TEMPORARILY BRACED

ENGINEER FOR REVIEW BEFORE FABRICATION.

- DURING FRECTION TO KEEP THEM PLUMB. IN ALIGNMENT AND SECURE UNTIL PERMANENT BRACING, DECKING AND/OR SHEATHING CAN BE INSTALLED. TEMPORARY BRACING SHALL BE MINIMUM 38x89mm (2"x4") LUMBER.
- 11. PERMANENT DIAGONAL BRACING SHALL BE PROVIDED ON ALL WEB MEMBERS THAT REQUIRE LATERAL BRACING AS INDICATED ON THE TRUSS SHOP DRAWINGS. PERMANENT DIAGONAL BRACING TO BE SPECIFIED BY THE BUILDING ENGINEER, AND INSTALLED AS PER THE STRUCTURAL DRAWINGS. SPACING OF DIAGONAL BRACING SHALL NOT EXCEED 6000mm (20'-0") AS RECOMMENDED BY TPIC.
- 12. SITE REVIEW OF ROOF TRUSS SYSTEM: THE TRUSS SYSTEM SHALL BE INSPECTED BY THE TRUSS DESIGN ENGINEER OR THIRD PARTY TRUSS ENGINEER RETAINED BY THE CONTRACTOR. SUBMIT INSPECTION REPORTS TO THE ARCHITECT AND THE ENGINEER AS REQUIRED FOR RECORD PURPOSES.

INSULATION

- 1. DELIEVER MATERIALS AND ACCESSORIES IN INSULATION MANUFACTURER'S ORIGINAL PACKAGING LABELS WITH MATERIAL NAME, THERMAL VALUE AND PRODUCT CODE, ENSURE INSULATION MATERIALS ARE NOT EXPOSED TO MOISTURE DURING DELIVERY REPLACE WET OR DAMAGED INSULATION MATERIALS.
- 2. STORE MATERIALS OFF THE GROUND IN A DRY LOCATION AND PROTECTED FROM HARMFUL WEATHER CONDITIONS AND AT TEMPERATURES RECOMMENDED BY MANUFACTURER. STORE IN ORIGINAL PACKAGING UNTIL INSTALLATION.
- 3. ATTIC AND CAVITY WALL INSULATION: NON-COMBUSTIBLE, SEMI-RIGID MINERAL WOOL INSULATION, WATER REPELLENT CONFORMING TO C553-11, TYPE 2, CLASS 4. INSULATION SHALL HAVE A THERMAL RESISTANCE VALUE OF NOT LESS THAN 4 HR.FT2 .F/BTU AT A MEAN TEMPERATURE OF 75°F AND A NOMINAL DENSITY OF 4 LB/CU.FT. ROCKBOARD 40 BY ROCKWOOL, OR APPROVED ALTERNATIVE THICKNESS AS NOTED ON DRAWINGS OR TO ACHIEVE SPECIFIED PERFORMANCE.

- REQUIREMENTS OF CSA S136 FOR THE LOADS
- 2. SUBMIT SHOP DRAWINGS INDICATING WELDS, MATERIALS AND FINISHES, AND BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO FOR REVIEW BY THE ENGINEER. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO PROCEEDING WITH ANY FABRICATION.
- 3. ALL STEEL DECK SHALL CONFORM TO THE MOST RECENT EDITIONS OF THE STANDARDS REFERENCED AND SHALL BE FABRICATED FROM GALVALUME OR GALVANIZED SHEET STEEL MINIMUM 26-GAUGE MATERIAL THICKNESS. THE CLADDING AND ROOF PROFILE IS RIB PANELS OR APPROVED ALTERNATIVE. COLOUR TO BE SELECTED BY OWNER, SELECTED FROM STANDARD RANGE. APPROVED STEEL DECKING FOR ROOF;
- . MUSKOKA PANELS MANUFACTURED BY STEEL TILE CO. METAL ROOFING SYSTEMS. PRESTIGE BY VIC WEST STEEL INC 4. APPROVED ALTERNATIVE. SAMPLES TO BE

SUBMITTED FOR OWNER APPROVAL.

SUBMITTED FOR OWNER APPROVAL

- . APPROVED STEEL DECKING FOR EXTERIOR WALL; 6. MUSKOKA PANELS MANUFACTURED BY STEEL TILE CO METAL ROOFING SYSTEMS. 7. APPROVED ALTERNATIVE. SAMPLES TO BE
- PROTECT WALL AND ROOF DECK FROM DAMAGE DURING SHIPPING STORAGE AND ERECTION. CONTRACTOR SHALL REPLACE ANY PUNCTURED, DENTED OR WELD PERFORATED DECK.
- STEEL DECK WORK SHALL INCLUDE THE SUPPLY AND INSTALLATION OF ALL SHEET STEEL TRIM COVER PLATES, CLOSURES, STIFFENERS AND ANY OTHER ACCESSORIES REQUIRED.
- 6. PROTECT AIR BARRIER FROM PHYSICAL DAMAGE. 7. PROTECT INSULATION FROM WEATHER AND
- CLADDING. 6. RETIGHTEN ALL BOLTED CONNECTIONS SIX MONTHS 8. CONTRACTOR IS TO BE INSTALLED BY A QUALIFIED TRADE WITH A MINIMUM OF 5 YEARS OF EXPERIENCE.

PHYSICAL DAMAGE PRIOR TO PROTECTION WITH

- 9. THE COATING IS TO BE WARRANTED FOR A PERIOD OF 10 YEARS FROM DATE OF SUBSTANTIAL COMPLETION
- 10. SHOP DRAWINGS: CONTRACTOR SHALL PROVIDE SHOP DRAWINGS STAMPED BY A LICENSED ENGINEER IN ONTARIO, WHICH INCLUDES ALL PROPOSED COMPONENTS OF THE METAL PANELS INCLUDING SECUREMENT, FOR REVIEW AND APPROVAL BY THE CONSULTANT
- 11. FLASHING AND TRIM SHALL BE OF SAME MATERIAL THICKNESS, COLOUR AND FINISH AS NEW METAL PANELS. ALL FLASHING AND TRIM TO HAVE FOLDED EDGES WHERE EXPOSED.
- 12. WALL FASTENERS SHALL BE SUITABLY COATED TO PREVENT CORROSION WITH EXPOSURE TO MOISTURE, AND COMPATIBLE WITH ELEMENTS THAT IT CONTACTS, PREVENTING GALVANIC CORROSION BETWEEN DISSIMILAR METALS.
- 13. WOOD TO STEEL: FASTENERS SECURING WOOD TO STEEL ELEMENTS SHALL BE SIZED TO FULLY PENETRATE THE STEEL ELEMENT A MINIMUM 20MM, AND SO AS NOT TO DAMAGE OTHER ELEMENTS BELOW. USE NO. 12 SELF-TAPPING STAINLESS STEEL SCREW.
- 14. WOOD TO WOOD: FASTENERS SECURING WOOD TO WOOD SHALL BE HOT DIPPED GALVANIZED AND PROVIDE A MINIMUM 30MM EMBEDMENT INTO THE ELEMENT BEING SECURED TO. USE NO. 12 WOOD
- 15 WOOD STRAPPING LUMBER IDENTIFICATION SHALL BE BY GRADE STAMP OF AN AGENCY CERTIFIED BY THE CANADIAN LUMBER STANDARDS ACCREDITATION BOARD. ALL LUMBER SHALL BE GRADE #2 OR GRADE
- 16. CUT OPENINGS AND REINFORCE EDGES AS REQUIRED FOR PIPES, DUCTS, ETC 1. THE MAXIMUM SIZE OF AN UNREINFORCED OPENING IS 150 mm (6").
- 2. REINFORCE ALL OPENINGS LARGER THAN 150mm (6"), BUT NOT EXCEEDING 450 mm (18"), AS INDICATED BY THE METAL DECK SUPPLIER. 3. FOR OPENINGS GREATER THAN 450mm (18") NOT SHOWN ON THE DRAWINGS, CONTACT ENGINEER
- FOR DIRECTION 4. ALL OPENING TO BE SEALED WITH SEALANT. COLOUR TO MATCH FINISH

- . SUPPLY AND INSTALLATION OF VINYL SIDING AND ALL ACCESSORIES, NEW VINYL SIDING. NEW VINYL SIDNING AT INFILL OF OVERHEAD DOOR IN VISITOR CENTER.
- 2. SUBMIT PRODUCT DATA INCLUDING PREPARATION INSTRUCTION AND RECOMMENDATION, STORAGE AND HANDLING, INSTALLATION METHODS AND MAINTENANCE REQUIREMENTS.
- 3. STORE PRODUCTS IN MANUFACTURER'S UNOPENED PACKAGING UNTIL READY FOR INSTALLATION.
- 4. POLYVINYL CHLORIDE SIDING, ASTM D3679, CLASS 2. WIDTH, PROFILE AND COLOUR TO MATCH EXISTING WHITE PANEL. SAMPLE TO BE SUBMITTED FOR FINAL
- . INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ATTACH VINYL PRODUCTS TO SUBSTRATE FOR A WEATHERTIGHT INSTALLATION, ENSURING HORIZONTAL COMPONENTS ARE INSTALLED TRUE TO LEVEL AND VERTICAL TRUE TO PLUMB.

SEALANT

APPROVAL

- 1. DELIVER MATERIAL TO SITE IN ORIGINAL FACTORY PACKAGING, LABELED WITH MANUFACTURER'S NAME AND ADDRESS.
- 2. PROCEED WITH INSTALLATION OF JOINT SEALANT ONLY WHEN AMBIENT AND SUBSTRATE TEMPERATURE ARE WITHIN LIMITS PERMITTED BY MANUFACTURER OR ABOVE 4C. SUBSTRATE ARE DRY AND FROST FREE
- 3. SURFACE PREPARATION AND SEALANT INSTALLATION SHALL BE CARRIED OUT AS PER MANUFACTURER'S INSTRUCTION.
- 4. PRECONSTRUCTION FIELD ADHESION TESTING: PRIOR TO INSTALLING JOINT SEALANT, FIELD TEST ADHESION TO JOINT SUBSTRATES USING ASTM C1193 METHOD A OR METHOD RECOMMEND BY MANUFACTURER. SUBMIT WRITTEN REPORT TO **DESIGN TEAM**

- 5. SEALANT INSTALLATION SHALL FREE FROM AIR POCKETS AND IMPURITIES. THE SEALANT SHALL BE TOOLED TO SLIGHTLY CONCAVE, RESULTING IN A SMOOTH SURFACE FREE FROM RIDGES AND
- 6. JOINT BACKING TO BE CONTINUOUS TYPE O OPEN CELL POLYURETHANE FOAM ROD OR APPROVED
- 7. SILICONE SEALANT TYPE S, GRADE NS, CLASS 25, TO ASTM C920 AND CAN/CGSB-19-13M APPROVED PRODUCT INCLUDE 1. 7.1 CWS BY DOWSIL
- 2. 7.2 TREMSIL 400 BY TREMCO LTD

MEMBRANE

- 1. AMBIENT TEMPERATURES ARE TO BE A MINIMUM OF 5°C DURING MEMBRANE APPLICATION.
- 2. ALL SURFACES ARE TO BE DRY AND FROST FREE.
- INCLUDING ALL DIMENSIONAL REQUIREMENTS FOR END AND SIDE LAPS.
- 5. MEMBRANE IS TO BE APPLIED OVER THE ENTIRE FIELD OF THE APPLICABLE AREAS, INCLUDING THE SPECIFIED DETAILS HEREIN.
- 6. THE ROOFING MEMBRANE SHALL BE AN APPROVED HIGH TEMPERATURE SELF ADHERING MEMBRANE. APPLY PRIMER AS REQUIRED BY MANUFACTURER
- EXO AIR HTE BY TREMCO 4. APPROVED ALTERNATIVE

2. BLUESKIN PE200HT BY HENRY

- SOPRASEAL STICK VP SELF-ADHERING VAPOUR CANADA. APPLY PRIMER AS REQUIRED BY THE MANUFACTURER. OR APPROVED ALTERNATIVE.
- 8. THE VAPOUR BARRIER SHALL BE A 6 MIL POLYETHYLENE VAPOUR BARRIER, WITH JOINTS SEALED WITH ACOUSTICAL SEALANT AND SEALER
- 1. JOINT SEALING TAPE: AIR RESISTANT PRESSURE SENSITIVE ADHESIVE TAPE, CLOTH FABRIC DUCT TAPE, TYPE RECOMMENDED BY VAPOUR BARRIER MANUFACTURER, 50MM WIDE FOR LAP JOINTS AND PERIMETER SEALS, 25MM WIDE ELSEWHERE. 2. LAP SHEET BY 150MM (6") AND SEAL WHERE
- REQUIRED. 3. EXTEND VAPOUR BARRIER 150MM ABOVE ALL CANTS OR OPENINGS
- RETARDER MATERIALS, RECOMMENDED BY VAPOUR RETARDER MANUFACTURER. 5. APPLY CONTINUOUS BEAD OF SEALANT TO
- 6. LAP SHEETS OVER SEALANT AND PRESS INTO SEALANT BEAD
- SMOOTH OUT FOLDS AND RIPPLED OCCURRING IN SHEET OVER SEALANT 9. WEATHER BARRIER ASSEMBLE SHALL BE INSTALLED
- SEALANT TO ALL EDGE TERMINATIONS. 3. APPROVED MANUFACTURERS;
- INTERIOR CLADDING CEILING AND INTERIOR WALLS

1. DELIVERY, STORAGE AND PROTECTION OF MATERIAL AND PRODUCTS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATION. STORE MATERIAL FLAT AND IN A

FROM 24 HOURS BEFORE INSTALLATION AND DURING INSTALLATION.

- 1. PRODUCT DATA: PROVIDE DATA ON PANEL MATERIALS AND INSTALLATION DETAILS. 2. INSTALLATION DATA: MANUFACTURER'S SPECIAL
- . MAINTENANCE AND CLEANING PROCEDURES: INCLUDE INSTRUCTION ON POWER WASHING DISTANCE FROM WALL AND OTHER REQUIREMENTS.
- WHITE, SAMPLE TO PROVIDED TO OWNER FOR APPROVAL. APPROVED PRODUCTS INCLUDE: 1 OUICKLINER BY STRUCTURAL PANEL INC 2. TRUSSCORE WALL & CEILING BOARD BY
- ALTERNATIVE APPROVED PRODUCTS. 5. INSTALLATION TO FOLLOW MANUFACTURER INSTRUCTION:
- INSTALL FURRING OR STRAPPING WHERE REOUIRED 6. PROVIDE CLEARANCES BETWEEN ALL PANELS **DURING INSTALLATION AS FOLLOWS:**
- 7. APPLY SILICONE SEALANT INSIDE THE GROOVED END OF THE PANEL PRIOR TO INSERTING THE NEXT PANEL. ENSURE THAT DRAINAGE PATHWAYS ARE CREATED IN TRIM PIECES, IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS. APPROVED SEALANT TO BE WHITE

1. TREMSIL 600 BY TREMCO

2. OR APPROVED ALTERNATIVE

- EQUIVALENT, COMPRESSED A MIN OF 25%.
- MOISTURE CURING SILICONE SEALANT CONFIRMING
- 3. 7.3 SIKASIL WS-305 CN BY SIKA CONSTRUCTION

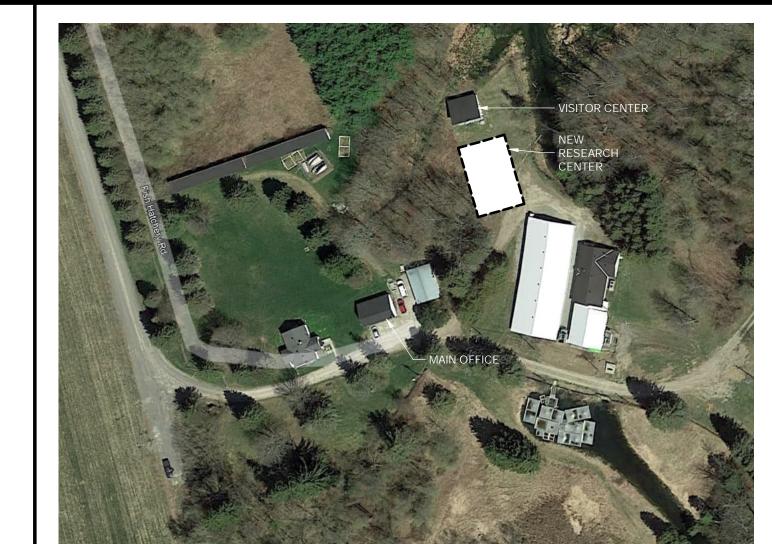
- 3. PRIME AS REQUIRED BY THE MANUFACTURER.
- 4. FOLLOW MANUFACTURER'S INSTRUCTION FOR THE APPLICATION OF SELF-ADHERING MEMBRANE
- UPTURNS OR DOWNTURNED IN ACCORDANCE WITH
- LASTOBOND SHEILD HT BY SOPERMA
- 7. THE EXTERIOR WALL MEMBRANE SHALL BE PERMEABLE AIR BARRIER MEMBRANE BY SOPREMA

- 4. PERIMETER SEALANT: COMPATIBLE WITH VAPOUR
- SUBSTRATE AT PERIMETER OF SHEETS.
- 7. INSTALL STAPLED THROUGH LAPPED SHEETS AT SEALANT BEAD INTO WOOD SUBSTRATE. 8. ENSURE NO GAPS EXIST IN SEALANT BEAD.
- BEHIND NEW VINYL SIDING ONLY WITH A POLYOLEFIN. NON-PERFORATED WEATHER BARRIER AND
- ACCESSORIES. MANUFACTURER'S INSTRUCTIONS 2. APPLY MANUFACTURER'S APPROVED TAPE OR
- 3.1 TYVEK BY DUPONT 3.2 BARRICADE BUILDING WRAP BY BARRICADE 3.3 APPROVED ALTERNATIVE
- CLEAN DRY AREA IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. 2. MAINTAIN AMBIENT TEMPERATURE OF NOT LESS THAN 5 DEGREES C NOR MORE THAN 30 DEGREES C

- INSTALLATION REQUIREMENTS. LIMITATIONS INCLUDING MAXIMUM PRESSURE,
- 1. PLASTIC PANELING TO BE INTERLOCKING PVC PANELS AND ASSOCIATED ACCESORIES. COLOUR TO BE
- TRUSSCORE INC.
- . 6mm CLEARANCE MINIMUM AT EACH END OF ALL
- QUICK LINER CEILING PANELS 2. 12mm CLEARANCE MINIMUM AT TOP OF ALL WALL PANELS 3. 1mm GAP MINIMUM BETWEEN PANELS AT INTERLOCKING JOINTS. WHEN INSTALLING AT LOW TEMPERATURE THIS GAP SHOULD BE INCREASE

TO ACCOMMODATE THE THERMAL EXPANSION OF

THE MATERIAL



FLOORING FINISH

- 1. REVIEW REQUIREMENTS FOR FLOOR COATING PRODUCTS AND INSTALLATION, INCLUDING SURFACE PREPARATION, SUBSTRATE CONDITIONS, PROJECT AND MANUFACTURER'S DETAILS, INSTALLATION PROCEDURES, MOCKUPS, TESTING AND INSPECTION REQUIREMENTS, PROTECTION AND REPAIRS, AND COORDINATION AND SEQUENCING OF FLOOR COATING WORK WITH WORK OF OTHER SECTIONS.
- 2. SUBMIT PRODUCT DATA FOR EACH TYPE OF FLOOR COATING PRODUCT AND ACCESSORY SPECIFIED, INDICATING COMPLIANCE WITH REQUIREMENTS.
- EACH TYPE OF SUBSTRATE, CORNERS, AND EDGE CONDITIONS, INCLUDING PENETRATIONS TRANSITIONS, AND TERMINATIONS. 4. INSTALLER FIRM WITH MINIMUM FIVE YEARS'

EXPERIENCE IN INSTALLATION OF SPECIFIED

3. SHOP DRAWINGS INCLUDE LOCATIONS FOR FLOOR

PRODUCTS IN SUCCESSFUL USE ON SIMILAR **APPLICATIONS** 5. MATERIALS ON SITE IN MANUFACTURER'S UNOPENED

ORIGINAL PACKAGING AND STORED IN WEATHER

MANUFACTURER'S INSTRUCTIONS. APPLY FLOOR COATING WITHIN THE RANGE OF AMBIENT AND SUBSTRATE TEMPERATURES RECOMMENDED BY TRAFFIC COATING MANUFACTURER. DO NOT APPLY COATING OR ACCESSORIES TO A DAMP OR WET SUBSTRATE BEFORE APPLYING THE COATING MATERIALS AND SYSTEM ACCESSORIES. EXAMINE SUBSTRATE ANI CONDITIONS TO ENSURE SUBSTRATES ARE FULLY CURED AND FREE FROM HIGH SPOTS, DEPRESSIONS, LOOSE AND FOREIGN PARTICLES AND OTHER

PROTECTED ENVIRONMENT, AS PER

RECOMMENDATIONS. 8. FLOOR COATING SYSTEM SHALL BE CAPABLE OF PERFORMING AS A CONTINUOUS WATERTIGHT INSTALLATION AND AS A MOISTURE DRAINAGE PLANE TO DRAINAGE TRAFFIC COATING SHALL ACCOMMODATE NORMAL SUBSTRATE MOVEMENT AND SEAL EXPANSION, CONSTRUCTION MATERIAL TRANSITIONS, OPENING TRANSITIONS. PENETRATIONS, AND PERIMETER CONDITIONS WITHOUT RESULTANT MOISTURE DETERIORATION. THE SYSTEM'S MATERIALS ARE COMPATIBLE WITH ONE ANOTHER AND WITH ADJACENT MATERIALS

DETERRENTS TO ADHESION, AND CONDITIONS

COMPLY WITH MANUFACTURER'S WRITTEN

UNDER CONDITIONS OF SERVICE AND APPLICATION REQUIRED. 9. FLOOR COATING: MANUFACTURER'S LOW-ODOR, LOW-VOC INTERIOR AND EXTERIOR EXPOSURE SEAMLESS, HIGH-SOLIDS-CONTENT, COLD LIQUID-APPLIED, ELASTOMERIC, WATERPROOFING MEMBRANE SYSTEM. ACCEPTED PRODUCT VULKEM 360NF/351NF OR APPROVED ALTERNATIVE, PRIMER. BASE AND TOPCOAT WITH AGGREGATE AS PER APPROVED SYSTEM, INSTALLED AS PER MANUFACTURER'S WRITTEN INSTRUCTION. COLOR TO

FINISHES.

METAL DOORS 1. DESIGN EXTERIOR FRAME ASSEMBLY TO ACCOMMODATE EXPANSION AND CONTRACTION WHEN SUBJECTED TO MINIMUM AND MAXIMUM SURFACE

BE SELECTED BY OWNER FROM STANDARD COLOUR

- TEMPERATURE OF -35°C TO 35°C. 2. PROVIDE SHOP DRAWINGS AS INDICATED BELOW:
- OF EXPOSED FASTENERS, OPENINGS, ARRANGEMENT OF HARDWARE AND FINISHES. 4. INDICATE EACH TYPE FRAME MATERIAL, CORE THICKNESS, REINFORCEMENTS, LOCATION OF ANCHORS

AND EXPOSED FASTENINGS, REINFORCING AND

- 5. INCLUDE SCHEDULE IDENTIFYING EACH UNIT, WITH DOOR MARKS AND NUMBERS RELATING TO NUMBERING ON DRAWINGS AND DOOR SCHEDULE.
- AND EXTERIOR APPLICATIONS. 7. EXPANDED POLYSTYRENE: CAN/ULC-S701, TYPE 1, DENSITY 16 TO 32 KG/M3.

8. DOOR BUMPERS: SINGLE STUD RUBBER/NEOPRENE

TYPE AT ALL INTERIOR OPENINGS. PREPARE FRAME FOR

6. STIFFENED: FACE SHEETS WELDED, INSULATED CORE

- DOOR SILENCERS, THREE (3) FOR SINGLE DOOR, TWO (2 AT HEAD FOR DOUBLE DOOR. 9. INSULATE EXTERIOR FRAME COMPONENTS.
- 10. PROVIDE DOORS WITH 1.6MM CLEARANCE AT HEAD AND JAMBS AND NO MORE THAN 9.5MM AT FLOOR, PROVIDE CLEARANCE AT FLOOR TO BE FROM TOP OF SILL TO UNDERSIDE OF DOOR.

- 11. PROVIDE DOORS WITH 1.6MM CLEARANCE AT HEAD AND JAMBS AND NO MORE THAN 9.5MM AT FLOOR. PROVIDE CLEARANCE AT FLOOR TO BE FROM TOP OF SILL TO UNDERSIDE OF DOOR.
- 12. BEVEL EDGES OF STILES TO SUIT DOOR SWING.
- 13. CONCEAL FASTENINGS EXCEPT WHERE EXPOSED FASTENINGS WILL BE INSTALLED ON THE INWARD SIDE OF THE DOOR LEAF AND WHERE INDICATED.
- 14. PROVIDE APPROPRIATE ANCHORAGE TO FLOOR AND WALL CONSTRUCTION. LOCATED EACH WALL ANCHOR IMMEDIATELY ABOVE OR BELOW EACH HINGE REINFORCEMENT
- COATING SYSTEM COMPONENTS. SHOW DETAILS FOR 15. EXTERIOR DOORS: HOLLOW STEEL, CHANNEL REINFORCED CONSTRUCTION WITH INSULATED CORE
 - 16. INSTALL DOORS AND FRAMES TO CSDMA INSTALLATION 17. MAKE ALLOWANCES FOR DEFLECTION OF STRUCTURE

TO ENSURE STRUCTURAL LOADS ARE NOT TRANSMITTED

- TO FRAMES 18. CAULK PERIMETER OF FRAMES BETWEEN FRAME AND
- ADJACENT MATERIAL. 19. MAINTAIN CONTINUITY OF AIR VAPOUR BARRIER.

SHOP DRAWING REVIEW

- 1. ERECTION AND FABRICATION SHOP DRAWINGS FOR ALL BUILDING COMPONENTS AS LISTED IN THE REQUIRED SUBMITTALS TABLE AND ANY RELATED WORKS ARE TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE COMMENCING WITH FABRICATION.
- 2. AS PART OF THEIR FIELD SERVICES, MTE CONSULTANTS ("MTF") WILL REVIEW SHOP DRAWINGS PERTAINING TO WORK SHOWN ON MTE CONSULTANT'S DRAWINGS BY MEANS OF APPROPRIATE RATIONAL SAMPLING PROCEDURES AND COMMENT ON THE ACCURACY WITH WHICH THE CONTRACTOR PREPARED THE DRAWINGS.
- PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT AND IS NOT AN APPROVAL OF THE DETAIL DESIGN INHERENT IN THE SHOP DRAWINGS, RESPONSIBILITY FOR WHICH SHALL REMAIN WITH THE CONTRACTOR SUBMITTING THEM. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWINGS OR FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INFORMATION PERTAINING TO THE FABRICATION PROCESS TECHNIQUES OF

3. REVIEW OF THE SHOP DRAWINGS IS FOR THE SOLE

COORDINATION OF THE WORK OF ALL SUB-TRADES 4. THE APPROVAL OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF THE FITTING OF BUILDING COMPONENTS. ANY DISCREPANCIES IN THE SHOP DRAWINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

5. ALL SHOP DRAWINGS MUST BEAR THE SEAL OF A

PROFESSIONAL ENGINEER LICENSED IN ONTARIO

UNLESS NOTED OTHERWISE IN THE SUBMITTALS

TABLE BELOW. UNSEALED SHOP DRAWINGS WILL NOT

CONSTRUCTION AND INSTALLATION AND FOR

BE REVIEWED UNLESS ALTERNATIVE ARRANGEMENTS HAVE BEEN AGREED UPON.

REQUIRED SUBMITTALS 3. INDICATE EACH TYPE OF DOOR, MATERIAL, STEEL CORE THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE THICKNESSES, MORTISES, REINFORCEMENTS, LOCATION ENGINEER FOR REVIEW PRIOR TO FABRICATION.

ITEM	REQ'D SUBMITTAL?	ENGINEER'S STAMP REQ'D?	NOTES
REBAR SHOP DRAWINGS	YES	NO	
CONCRETE MIX DESIGNS	YES	NO	
HELICAL PIER SHOP DRAWINGS	YES	YES	
HELICAL PIER LOADING REPORTS	YES	YES	
STRUCTURAL STEEL SHOP DRAWINGS	YES	YES	FOR CONNECTIONS ONLY
MISCELLANEOUS STEEL SHOP DRAWINGS	YES	YES	STAMP FOR STAIRS, LADDERS, AND GUARDS
STEEL DECK SHOP DRAWINGS	YES	YES	
WOOD ROOF TRUSS SHOP DRAWINGS	YES	YES	
WOOD ROOF TRUSS CALCULATIONS	YES	YES	
ENGINEERED LUMBER	YES	YES	

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION O ARRANGE FOR INSPECTION.

CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND

ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND

REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE

SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE

NOTE TO CONTRACTOR:

OO NOT SCALE DRAWINGS.

PROCEEDING WITH THE WORK.

ENGINEER'S WRITTEN PERMISSION.

BIOENGINEERING TECHNOLOGIES & BUSINESS MANAGEMENT SOLUTIONS

> ISSUED FOR **TENDER**

> > 1 2023.08.24

ISSUANCE ID DATE

Engineers, Scientists, Surveyors

519-743-6500 W.B. BOKMA 90202185 2023-08-31

SUED FOR TENDER

CANADIAN AQUACULTURE SYSTEMS

PROJECT

<Project Address>

DRAWING

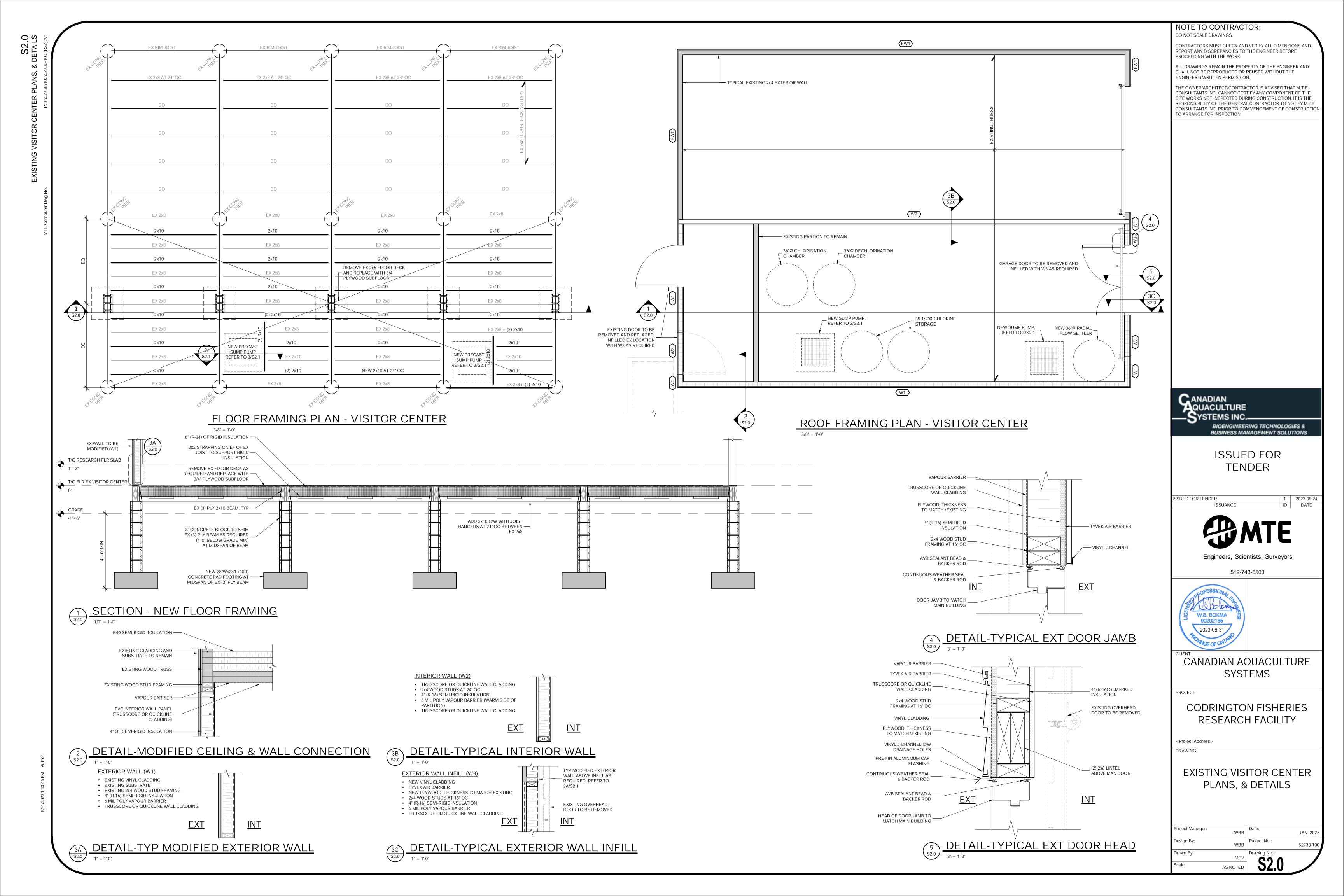
CODRINGTON FISHERIES RESEARCH FACILITY

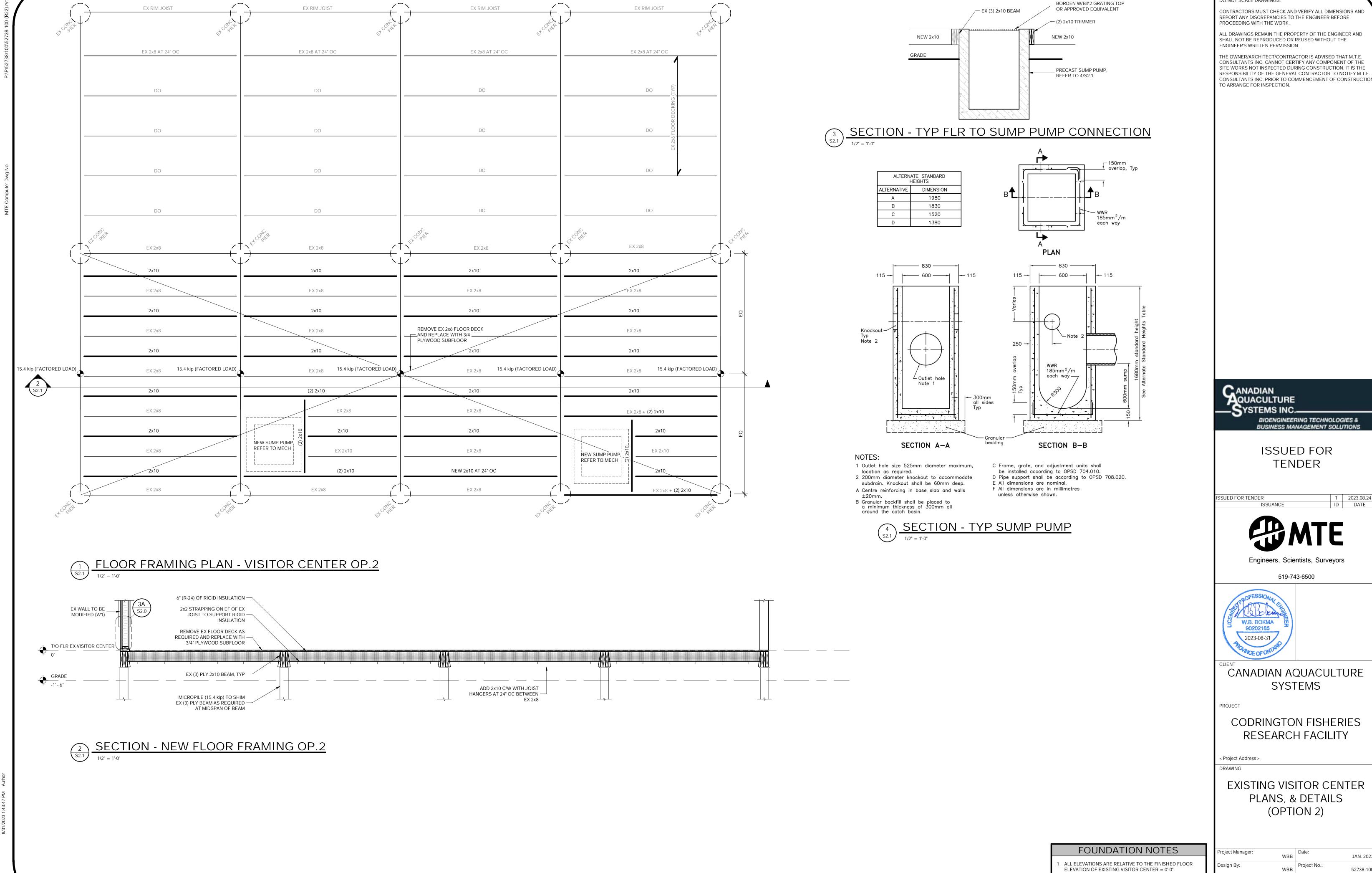
SLAB & FRAMING PLANS

CONSTRUCTION NOTES

Project Manage JAN. 202 esign By Project No 52738-10 Drawn Bv Drawing No MCV

AS NOTED





NOTE TO CONTRACTOR: DO NOT SCALE DRAWINGS.

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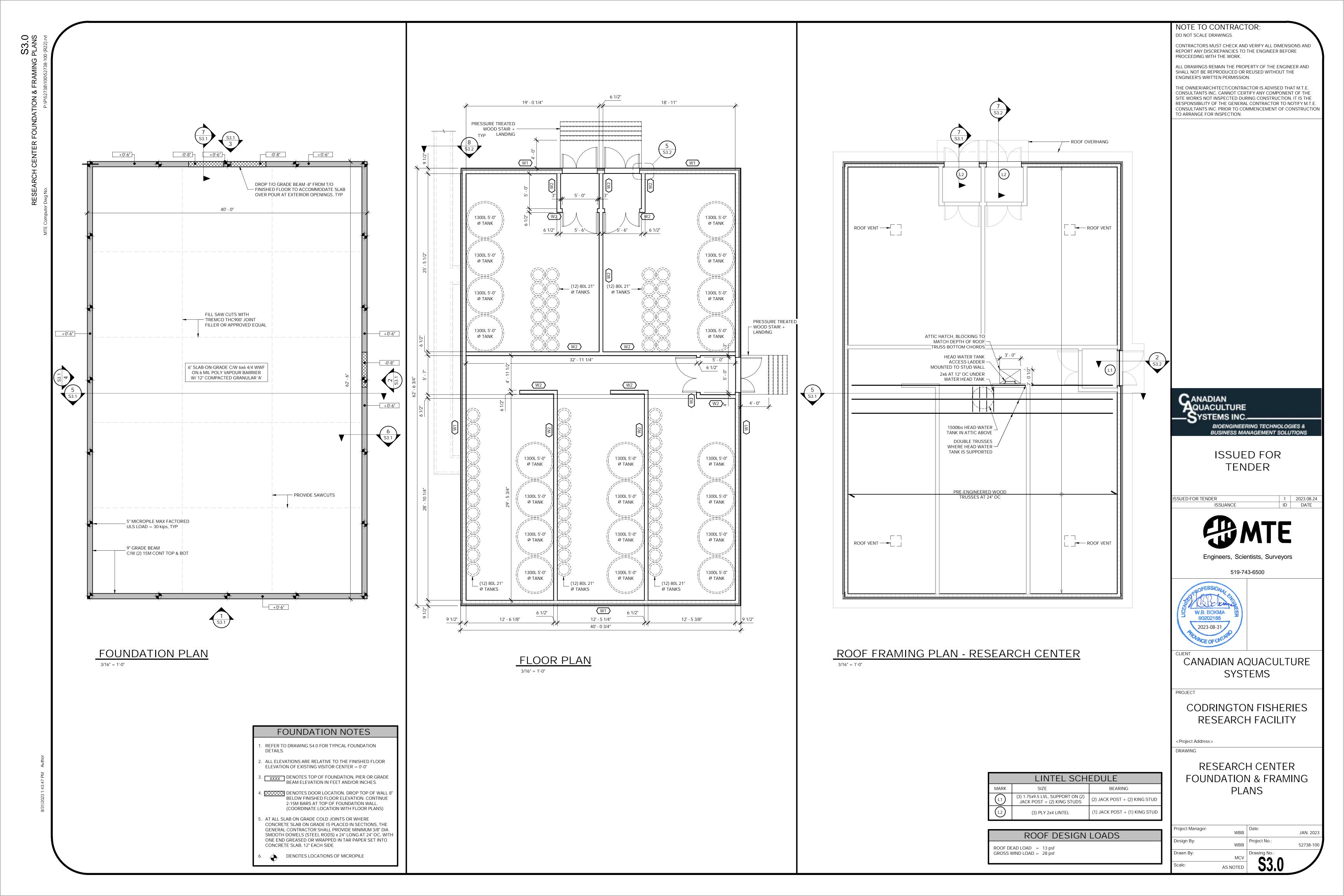
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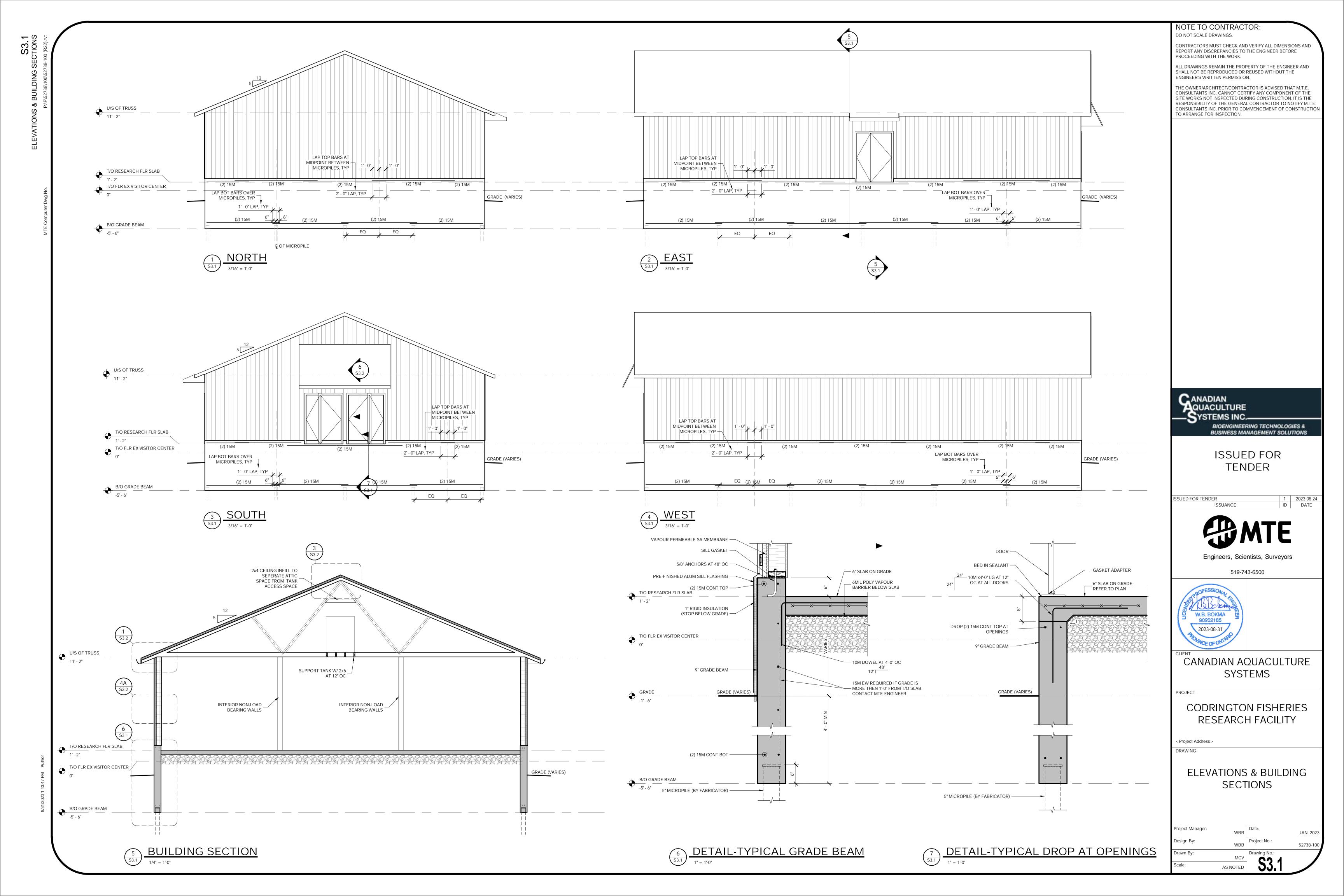
ID DATE

CANADIAN AQUACULTURE

Project Manager:	WBB	Date:	JAN. 2023
Design By:	WBB	Project No.:	52738-100
Drawn By:	MCV	Drawing No.:	
Scale:	AS NOTED	52.1	

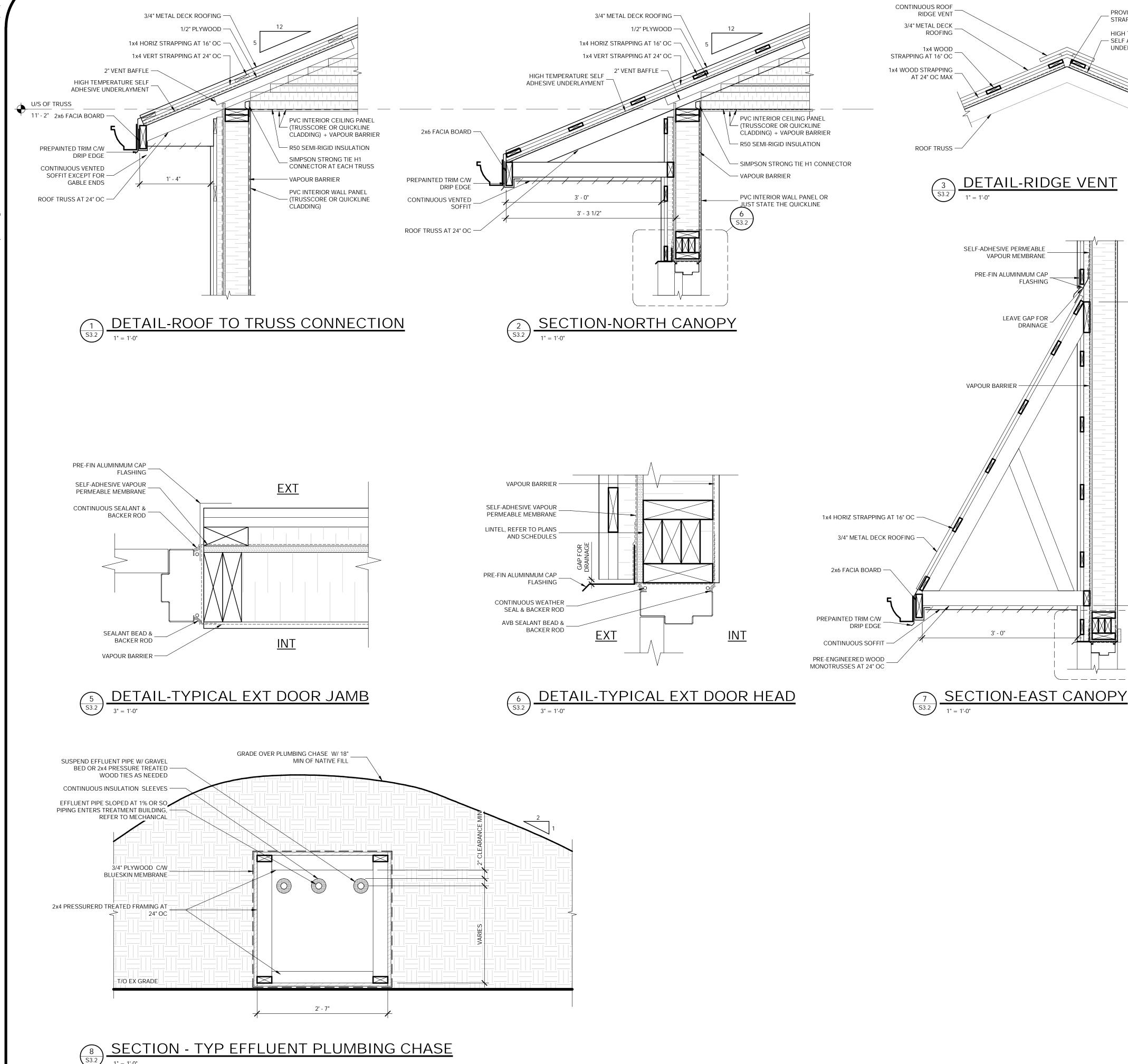
DENOTES LOCATIONS OF MICROPILE











EXTERIOR WALL (W1)

PROVIDE 1x4 WOOD

HIGH TEMPERATURE

- SELF ADHESIVE

UNDERLAYMENT

STRAPPING AT ENDS TYP.

- 3/4" METAL CLADDING • 1x4 HORIZONTAL STRAPPING AT 16" OC 2x4 VERTICAL STRAPPING AT 24" OC
- 2" SEMI-RIGID INSULATION (R-8) SELF-ADHESIVE VAPOUR PERMEABLE MEMBRANE
- 2x6 WOOD STUDS AT 24" OC
 6" SEMI-RIGID INSULATION (R-24)
- 1/2" ACX PLYWOOD 6 MIL POLY VAPOUR BARRIER

TRUSSCORE OR QUICKLINE WALL CLADDING **EXT** <u>INT</u>

DETAIL-TYPICAL EXTERIOR WALL

INTERIOR WALL (W2) TRUSSCORE OR QUICKLINE WALL CLADDING 2x6 WOOD STUDS AT 24" OC6" SEMI-RIGID INSULATION (R-24) TRUSSCORE OR QUICKLINE WALL CLADDING

(4B) DETAIL-TYPICAL INTERIOR WALL

1" = 1'-0"

NOTE TO CONTRACTOR: DO NOT SCALE DRAWINGS.

ENGINEER'S WRITTEN PERMISSION.

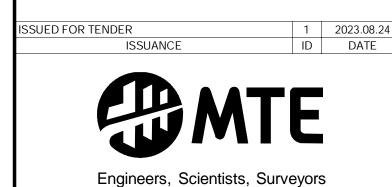
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PROCEEDING WITH THE WORK. ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE

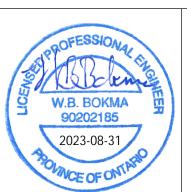
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ISSUED FOR TENDER



519-743-6500



CANADIAN AQUACULTURE SYSTEMS

PROJECT

CODRINGTON FISHERIES RESEARCH FACILITY

< Project Address > DRAWING

RESEARCH CENTER

SECTIONS & DETAILS

Project Manager JAN. 2023 Project No.: 52738-100 Drawing No. MCV AS NOTED