

GENERAL NOTES

- 1. DO NOT SCALE DRAWINGS.
- 2. COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCING CONSTRUCTION.
- 3. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS, SLOPES, ROUGH OPENING DIMENSIONS FOR WINDOWS, DOORS, ETC.
- 4. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS IN FLOORS, ROOF, WALLS, ETC.
- 5. DO NOT CUT OR DRILL OPENINGS IN ANY STRUCTURAL MEMBERS WITHOUT WRITTEN APPROVAL FROM BEACH ROCKE ENGINEERING LTD.
- 6. BEACH ROCKE ENGINEERING LTD. SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF REQUIRED SITE INSPECTIONS. (TEL: 1-204-255-7251, FAX: 1-204-257-7239).
- 7. STRUCTURAL DRAWINGS SHOW THE COMPLETED STRUCTURE. THEY DO NOT SHOW COMPONENTS WHICH MAY BE NECESSARY FOR SAFETY DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE SAFETY AND TO ENSURE THAT ALL SUBTRADES CONFORM TO THE LATEST REGULATIONS OF THE PROVINCIAL "BUILDING PROTECTION ACT", TO PROVIDE ALL NECESSARY SAFETY EQUIPMENT AS REQUIRED THEREIN AND TO NOTIFY LOCAL AUTHORITIES AS REQUIRED BY LAW.
- 8. THE CONTRACTOR SHALL CONFORM TO THE COLD WEATHER REQUIREMENTS OF THE LATEST EDITION OF THE ACI BUILDING CODE REQUIREMENTS WHEN THE TEMPERATURE FALLS BELOW 5°C.
- 9. IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO LOCATE ALL SITE SERVICES PRIOR TO CONSTRUCTION.
- 10. THE GENERAL CONTRACTOR SHALL DESIGN ALL SHORING, FORMWORK, AND BRACING TO ENSURE PROPER CONSTRUCTION AND ERECTION.
- 11. THE CONTRACTOR SHALL VISIT THE SITE, AND NOTE ALL CHARACTERISTICS AND IRREGULARITIES AFFECTING THE WORK OF THIS SECTION.
- 12. SHOP DRAWINGS NOT STAMPED, SIGNED, AND DATED BY THE CONTRACTOR WILL BE RETURNED AND SHALL BE CONSIDERED REJECTED. SHOP DRAWINGS FOR WORK DESIGNED BY THE CONTRACTOR SHALL BEAR THE SEAL AND SIGNATURE OF A QUALIFIED PROFESSIONAL ENGINEER IN THE PROVINCE.
- 13. THE CONTRACTOR SHALL SUBMIT AT LEAST 3 COPIES OF STAMPED SHOP DRAWINGS FOR ALL PRE-FABRICATED STRUCTURAL ASSEMBLIES, INCLUDING REINFORCING STEEL TO BEACH ROCKE ENGINEERING LTD. FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. ALL SHOP DRAWINGS, EXCEPT REINFORCING STEEL, SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE PROVINCE.

SLAB ON GRADE

ALL SLAB-ON-GRADE FLOORS WILL EXPERIENCE MOVEMENT AND CRACKING DUE TO HEAVING AND SOIL EXPANSION RESULTING FROM THE NATURE OF THE CLAY SOIL, PREVIOUS AND PRESENT LEVEL OF VEGETATION AT THE SITE, SOIL MOISTURE LEVEL AND CONSTRUCTION PRACTICES. BEACH ROCKE ENGINEERING LTD. ACCEPTS NO LIABILITY FOR THIS CRACKING AND /OR MOVEMENT.

CONCRETE

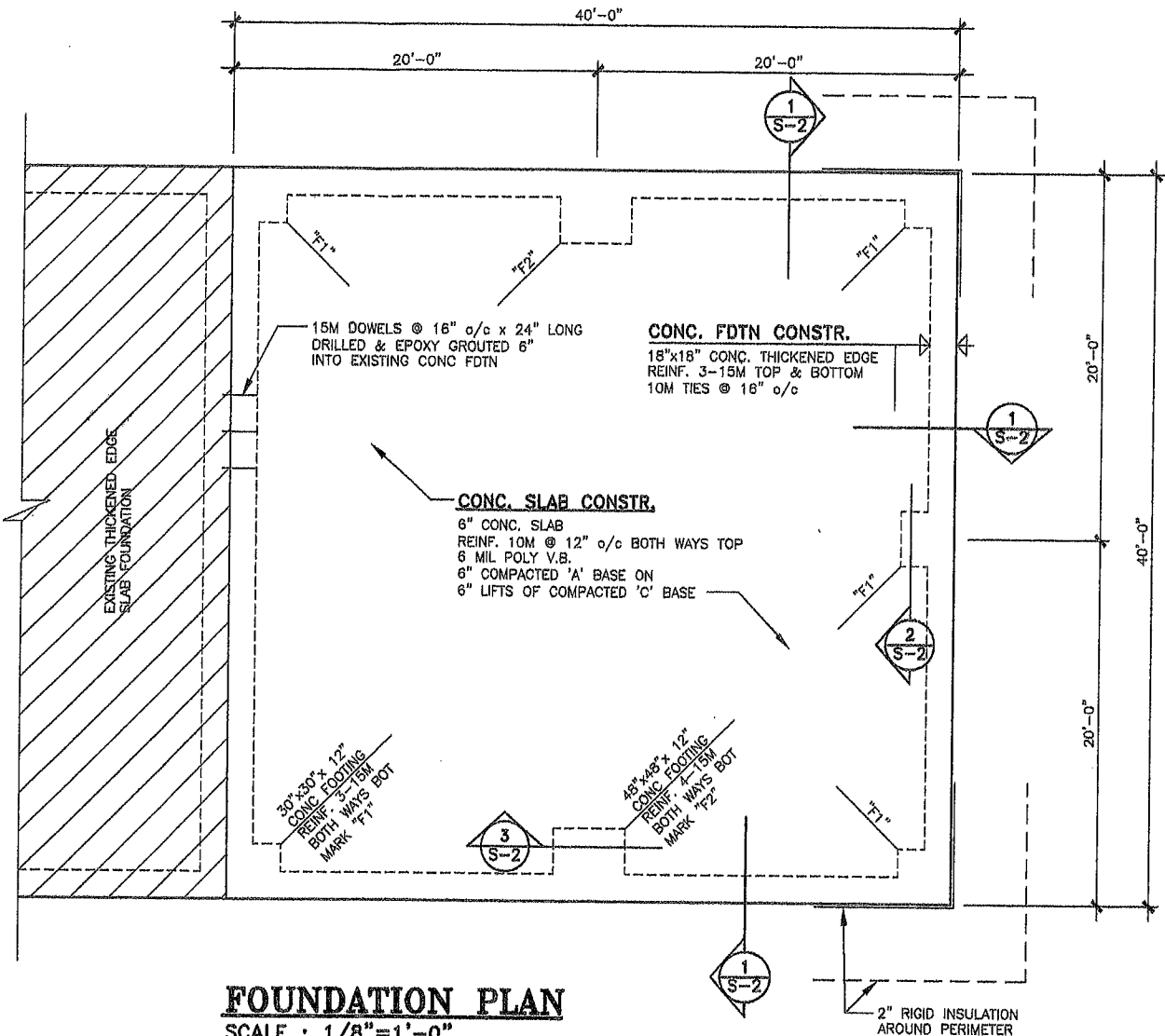
- 1. CONCRETE SHALL BE MANUFACTURED AND PLACED IN ACCORDANCE WITH THE LATEST EDITION OF CSA STANDARDS A23.1 AND A23.2.
- 2. THE CONTRACTOR SHALL PROVIDE ONE SET OF STANDARD CONCRETE CYLINDER TEST RESULTS CONDUCTED BY AN INDEPENDANT TESTING FIRM FOR EACH DAY POUR AND NO EXTRA COST TO THE OWNER. TEST RESULTS ARE TO BE FORWARDED TO BEACH ROCKE ENGINEERING LTD. IMMEDIATELY UPON RECEIPT FROM THE TESTING FIRM.
- 3. PROVIDE A MINIMUM 150mm (6") VOID UNDER ALL BEAMS, WALLS AND STRUCTURAL SLABS. VOID TO BE SHEARMAT OR APPROVED CARDBOARD VOIDFORM.
- 4. VIBRATE ALL CONCRETE TO ENSURE COMPLETE CONSOLIDATION.
- 5. THE LOCATIONS OF CONSTRUCTION JOINTS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE APPROVED BY BEACH ROCKE ENGINEERING LTD.
- 6. WHEN THE OUTSIDE TEMPERATURE FALLS BELOW 5 DEGREES CENTIGRADE, THE CONTRACTOR SHALL CONFORM TO THE LATEST EDITION OF THE ACI CODE FOR COLD WEATHER CONCRETING PROCEDURES, AND SHALL RECEIVE WRITTEN APPROVAL FROM BEACH ROCKE ENGINEERING LTD. PRIOR TO COMMENCING CONCRETE CONSTRUCTION.
- 7. PROVIDE 1" x 1" SAW CUTS AT 20' O.C. BOTH WAYS IN FLOOR SLABS UNLESS OTHERWISE NOTED ON DRAWINGS.
- 8. CONCRETE SHALL CONFORM TO THE FOLLOWING:
  - 8.1. GRADE BEAMS - EXPOSURE CLASS F-2 (25MPa AT 28 DAYS)
  - 8.2. INTERIOR SLABS ON GRADE - EXPOSURE CLASS N (25MPa AT 28 DAYS)
  - 8.3. INTERIOR STRUCTURAL SLABS - EXPOSURE CLASS N (25MPa AT 28 DAYS)
  - 8.4. EXTERIOR SLAB ON GRADE - EXPOSURE CLASS C-2 (32MPa AT 28 DAYS)
  - 8.5. EXTERIOR STRUCTURAL SLABS - EXPOSURE CLASS C-1 (35MPa AT 28 DAYS)

REINFORCING STEEL

- 1. REINFORCING STEEL SHALL BE NEW BILLET DEFORMED BARS MANUFACTURED IN ACCORDANCE WITH CSA G30.18 AND DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI MANUAL, WITH MINIMUM YIELD STRENGTH AS FOLLOWS: 10M BARS-300MPa, 15M BARS & LARGER - 400MPa.
- 2. REINFORCING STEEL SHALL BE FREE FROM LOOSE RUST, MUD, OIL OR OTHER COATINGS WHICH MAY REDUCE THE BOND OR HARM THE CONCRETE.
- 3. REINFORCING STEEL SHALL BE HELD IN PLACE AND TIED WITH PROPER ACCESSORIES SUCH AS HI-CHAIRS, SPACERS, TIES, ETC. SUPPLIED BY THE REINFORCING STEEL PROVIDER. APPROPRIATE SUPPORT SHALL BE PROVIDED UNDER ALL SUPPORT ACCESSORIES TO ENSURE THAT THE REINFORCING STEEL IS ACCURATELY POSITIONED.
- 4. LAP TOP BARS AT MID-SPAN AND BOTTOM BARS OVER SUPPORTS.
- 5. BEND ALL HORIZONTAL STEEL 18" AROUND CORNERS, OR USE EXTRA 36"x36" CORNER BARS TO MATCH HORIZONTALS.
- 6. PROVIDE 2-15M AROUND ALL SLAB, WALL, & BEAM OPENINGS, UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS.
- 7. CONCRETE COVER TO REINFORCING STEEL SHALL BE AS FOLLOWS:
  - 7.1. CONCRETE CAST IN DIRECT CONTACT WITH SOIL - 75mm (3")
  - 7.2. FORMED CONCRETE IN CONTACT WITH SOIL 15M OR SMALLER - 50mm (2")
  - 7.3. FORMED CONCRETE IN CONTACT WITH SOIL 20M OR LARGER - 40mm (1 1/2")
  - 7.4. FORMED CONCRETE NOT IN CONTACT WITH SOIL (BEAMS AND COLUMNS) - 40mm (1 1/2")
  - 7.5. FORMED CONCRETE NOT IN CONTACT WITH SOIL (SLABS AND WALLS) - 20mm (3/4")
- 8. MISCELLANEOUS CONCRETE HOUSEKEEPING PADS AND CURBS SHALL BE REINFORCED WITH A MINIMUM 10M AT 18" O.C. EACH WAY UNLESS NOTED. SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.

THICKENED EDGE SLAB ON GRADE

- 1. THICKENED EDGE SLAB-ON-GRADE FOUNDATIONS SHALL BEAR ON NATIVE SOIL WITH AN ALLOWABLE BEARING CAPACITY OF 72kPa (1500PSF) AND BE CONSTRUCTED ON 150mm (6") MINIMUM COMPACTED GRANULAR BASE.
- 2. POUR JOINTS IN THE FOUNDATION SHALL BE APPROVED BY THE ENGINEER.



FOUNDATION PLAN

SCALE : 1/8"=1'-0"

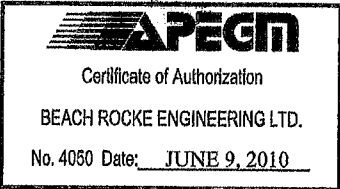
NOTE:

- THIS DRAWING IS TO BE READ IN CONJUNCTURE WITH ARCHITECTURAL PLANS PREPARED BY OTHERS. ANY INFORMATION MISSING ON THIS DRAWING MUST BE OBTAINED FROM SAID ARCHITECTURAL PLANS.

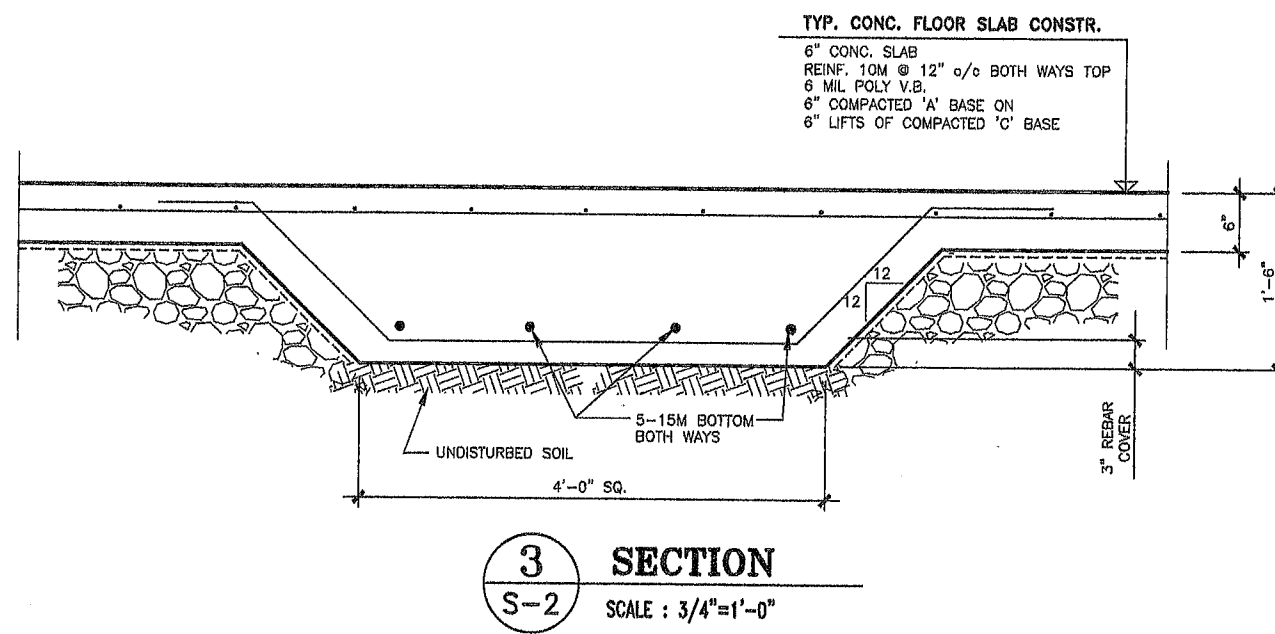
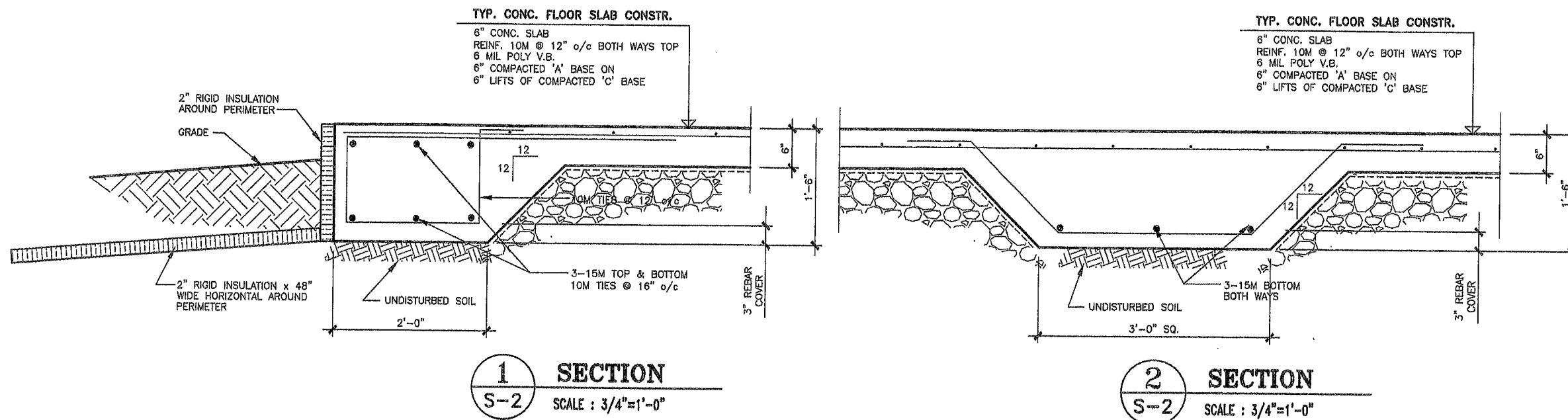
- DO NOT SCALE DRAWINGS.

- ALL DIMENSIONS MUST BE VERIFIED PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGNER.

- BEACH ROCKE ENGINEERING LTD WAS RETAINED TO PROVIDE THE FOUNDATION PLANS ONLY. CODE ANALYSIS (PART 3/9) TO BE PROVIDED BY OTHERS. BEACH ROCKE ENGINEERING LTD WILL NOT CERTIFY THE BUILDING NOR ACCEPT ANY LIABILITY ASSOCIATED.



STRUCTURAL REVIEW & APPROVAL ONLY



**APEGM**  
 Certificate of Authorization  
 BEACH ROCKE ENGINEERING LTD.  
 No. 4050 Date: JUNE 9, 2010

PROVINCE OF MANITOBA  
 JUNE 9, 2010  
 R.M.  
 HUDON  
 Member  
 50019  
 REGISTERED PROFESSIONAL ENGINEER  
 PUBLIC WORKS BUILDING  
 TOWN OF MORDEN  
 STRUCTURAL REVIEW & APPROVAL ONLY

