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2014-1217


**Crosier Kilgour
& Partners Ltd.**
CONSULTING STRUCTURAL ENGINEERS

republic
architecture
374 Donald Street, First Floor
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4		
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1	ISSUED FOR CONSTRUCTION	14/12/19
0	99% SUBMISSION	14/12/05
Revision	Description	Date

Client:
RCMP

Project title:
Carrot River, SK
MOBILE HOME DESIGN

Approved by:
BF

Designed by:
BF

Drawn by:
ZG

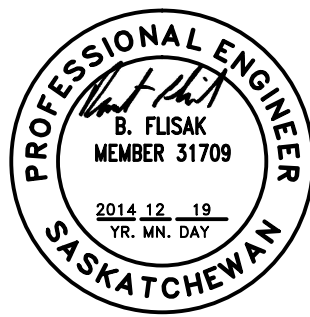
Project Manager:
RD

Client:
RCMP

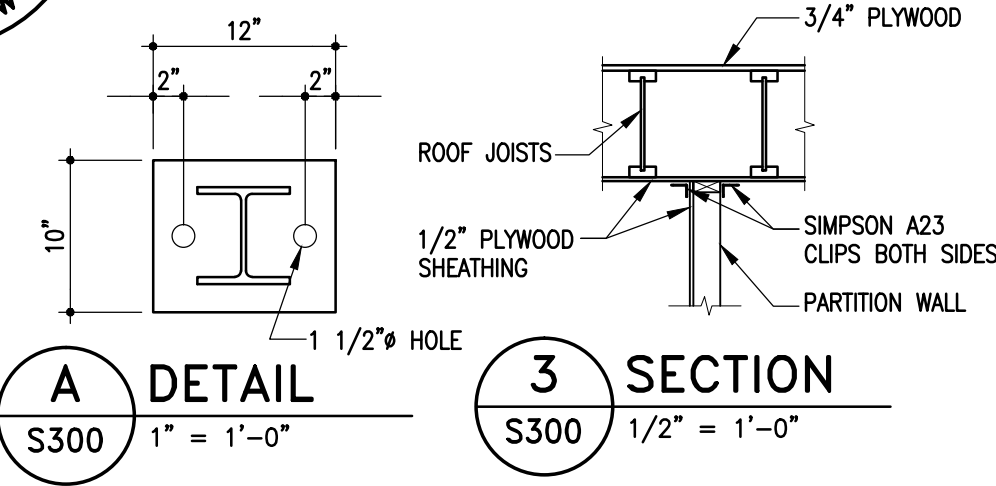
Drawing title:
SECTIONS

SCALE: AS NOTED

Project No.	Sheet	Revision no./
91	S300	0



ASSOCIATION OF PROFESSIONAL ENGINEERS
OF SASKATCHEWAN
CERTIFICATE OF AUTHORIZATION
CROSIER, KILGOUR & PARTNERS LTD.
NUMBER **47**
PERMISSION TO CONSULT HELD BY:
DISCIPLINE SASK. REG. No. SIGNATURE
STR 31709



GENERAL NOTES

1. STRUCTURAL DESIGN BASED ON THE NATIONAL BUILDING CODE OF 2011 EDITION.

A) IMPORTANCE CATEGORY: NORMALB) WIND LOAD: q50 = 7.9 P.S.F.C) GROUND SNOW LOAD: Ss = 41.7 P.S.F.D) ASSOCIATED RAIN LOAD: Sr = 2.1 P.S.F.
2. SEISMIC SITE CLASSIFICATION: NOT APPLICABLE
3. DO NOT SCALE DRAWINGS.
4. ALL DIMENSIONS ARE TO BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
5. THESE STRUCTURAL DRAWINGS SHOW THE COMPLETED STRUCTURE AND DO NOT INDICATE ALL COMPONENTS NECESSARY FOR SAFETY DURING CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY ON AND AROUND THE JOBSITE DURING CONSTRUCTION.

FOUNDATIONS

1. NO GEOTECHNICAL INVESTIGATION HAS BEEN PERFORMED BY THE OWNER AT THIS SITE AT THE TIME OF ISSUANCE OF THESE DRAWINGS. THEREFORE ALL FOOTINGS ARE DESIGNED ON AN ASSUMED ALLOWABLE BEARING CAPACITY OF 2000 P.S.F. FOOTINGS SHALL BE PLACED ON 6" OF COMPACTED GRANULAR FILL ON UNDISTURBED NATIVE SOIL.
2. OWNER ACCEPTS RESPONSIBILITY FOR SOIL CAPACITIES DIFFERING FROM THE ASSUMPTIONS NOTED ABOVE, AS WELL AS POTENTIAL DIFFERENTIAL SOIL MOVEMENTS.

WOOD

1. ALL LUMBER TO BE NO.1/NO.2 SPF. ALL WOOD TO BE KILN DRIED.
2. ALL WALLS TO BE ADEQUATELY BRACED UNTIL SHEATHING INSTALLED ON WALLS, FLOOR BELOW AND STRUCTURES ABOVE.
3. NAILING PATTERNS AND NAIL LENGTHS SHALL CONFORM TO TABLE 9.23.3.4. AND 9.23.3.5. OF THE NATIONAL BUILDING CODE RESIDENTIAL STANDARDS.
4. PLYWOOD SUB-FLOORING AND SHEATHING SHALL BE EXTERIOR DOUGLAS FIR PLYWOOD CONFORMING TO THE LATEST EDITION OF CSA 0121 "DOUGLAS FIR PLYWOOD" UNLESS OTHERWISE NOTED.
5. ALL JOISTS OR BEAMS FLUSH FRAMED INTO OTHER BEAMS SHALL BE CONNECTED USING METAL JOIST OR BEAM HANGERS.
6. MICROLAM LVL FLEXURAL MEMBERS TO BE 1.9E GRADE AS MANUFACTURED BY WEYERHAEUSER OR APPROVED ALTERNATE.
7. ALL WOOD TRUSSES ARE TO BE DESIGNED IN ACCORDANCE WITH:

A) THE LATEST EDITION OF CAN/CSA 086 "ENGINEERING DESIGN IN WOOD".B) THE NATIONAL BUILDING CODE OF CANADA AND FOR ANY ANTICIPATED SNOW BUILD-UP LOADS.
8. TRUSSES FRAMING INTO BEAMS OR OTHER TRUSSES SHALL BE CONNECTED WITH PROPER METAL FRAMING ACCESSORIES APPROVED BY THE PROJECT ENGINEER.
9. THE TRUSS SUPPLIER IS TO SUBMIT ENGINEERING DRAWINGS BEARING THE SEAL OF AN ENGINEER REGISTERED IN THE PROVINCE OF SASKATCHEWAN TO THE PROJECT ENGINEER FOR REVIEW PRIOR TO FABRICATION. ENGINEERING SHOP DRAWINGS SHALL INCLUDE A LAYOUT PLAN SHOWING ALL TRUSSES, PERMANENT WEB AND CHORD BRACING REQUIRED BY TRUSS DESIGN, AND TEMPORARY BRACING. ALL MISCELLANEOUS METAL FRAMING CONNECTORS AND BRACING NOTED ABOVE SHALL BE SPECIFIED BY TRUSS SUPPLIER AND SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR.

NOTE: IN PREPARATION OF TRUSS DESIGNS, THE WEB ORIENTATIONS, LUMBER GRADE AND MEMBER SIZES EMPLOYED ARE TO MINIMIZE THE REQUIREMENT FOR WEB BRACING.

STRUCTURAL STEEL

1. STRUCTURAL STEEL TO CONFORM TO CSA-G40.21, "STRUCTURAL QUALITY STEELS" AND CSA-G40.20 "GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEEL".
2. ALL ROLLED OR STEEL STRUCTURAL SECTIONS SHALL BE G40.21-50W. ALL ANGLES, CHANNELS AND PLATES SHALL BE G40.21-44W.
3. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE PERFORMED IN ACCORDANCE WITH CAN/CSA S16-09, "STEEL STRUCTURES FOR BUILDINGS".
4. ALL WELDING SHALL CONFORM TO THE LATEST EDITION OF CSA W59, "WELDED STEEL CONSTRUCTION". FABRICATORS SHALL BE PROPERLY CERTIFIED IN ACCORDANCE WITH CSA W47.1, "CERTIFICATION OF COMPANIES FOR FUSION WELDING OF STEEL STRUCTURES".
5. ALL STEEL IS TO BE HOT DIPPED GALVANIZED.
6. ANCHOR BOLTS TO BE GRADE ASTM A307 PROVIDED BY STEEL SUPPLIER AND SET BY THE GENERAL CONTRACTOR.
7. FABRICATOR TO NOTIFY ENGINEER OF ANY PROPOSED MEMBER SUBSTITUTIONS AND CHANGED CONNECTION DETAILS.
8. THE STRUCTURAL STEEL SUPPLIER SHALL PROVIDE AND BE RESPONSIBLE FOR ALL HOLES IN STEEL SECTIONS REQUIRED BY OTHER TRADES. SECTION SHALL BE STRENGTHENED WHERE REQUIRED TO GUARANTEE THE ORIGINAL STRENGTH OF THE BEAM. ANY CUTTING OF STEEL AT THE JOB SITE SHALL BE DONE ONLY AS DIRECTED AND APPROVED BY THE ENGINEER.

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