

CONFIRM LOCATION OF NEW UNIT WITH RESPECT TO EXISTING STEEL FRAMING. PROVIDE C150x12 ALL AROUND PERIMETER OF UNIT TIED INTO EXISTING STEEL BEAMS AS SHOWN. PROVIDE NEW C100x8 ALL AROUND NEW OPENINGS AS REQUIRED TO SUIT. IF EXISTING OPENING FRAMING DOES NOT WORK, ENSURE THAT ALL EDGES OF EXISTING OPENING REMAIN FULLY SUPPORTED IN NEW CONDITION UTILIZING EXISTING C100 OR NEW.

OUTLINE OF NEW AHU (SEE MECHANICAL) WEIGHT 1,956lbs TO REPLACE EXISTING.

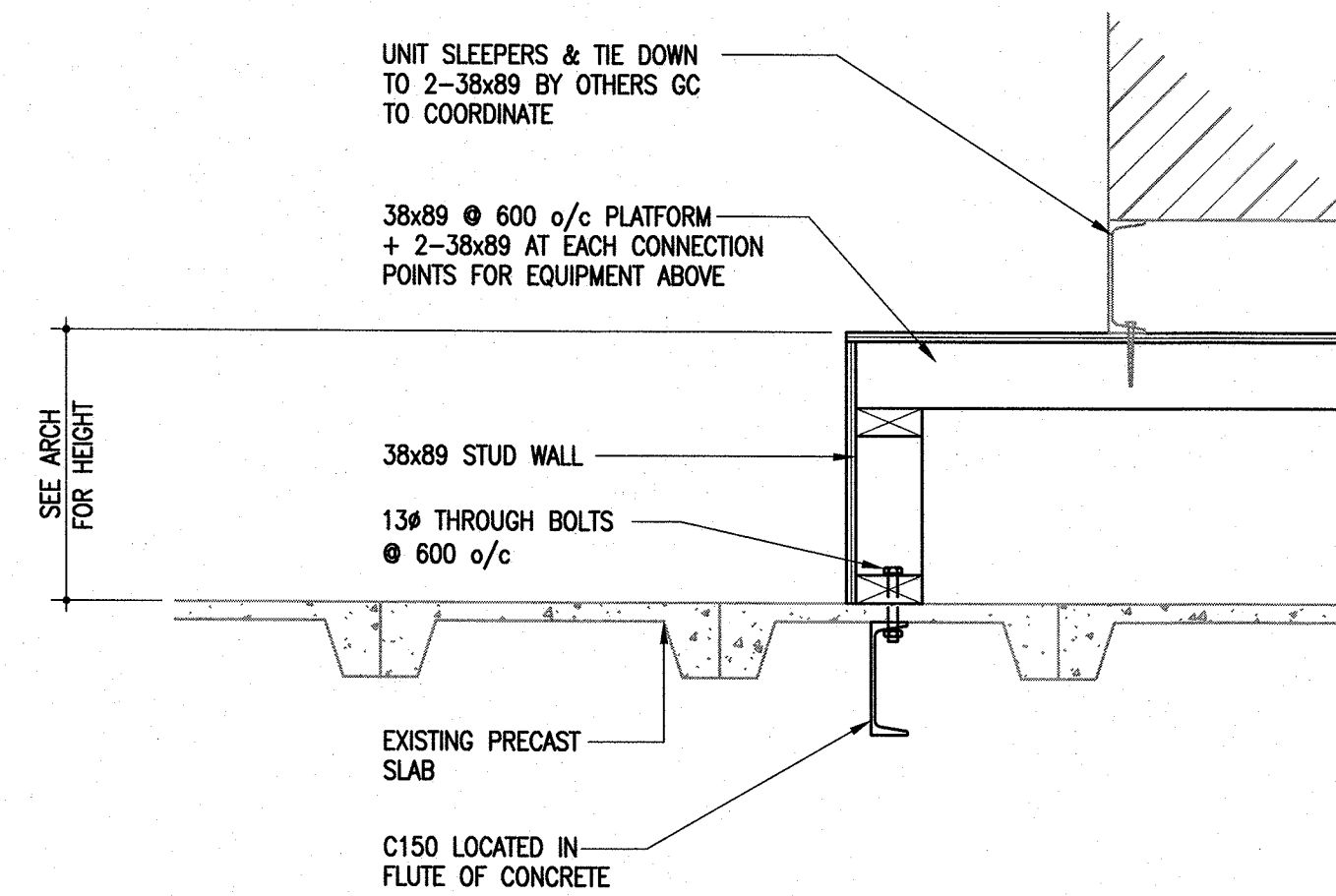
OUTLINE OF NEW CU-1 (SEE MECHANICAL) WEIGHT 560lbs ON RECYCLED RUBBER PADS (SEE ARCH) + SLEEPERS AS REQUIRED. CONFIRM LOCATION & CENTRE UNIT ABOVE EXISTING STEEL FRAMING.

NEW 150x12 AT EDGE OF NEW UNIT LINE UP UNIT TO SIT ON REMAINDER OF EXIST BEAMS

EXISTING C100  
EXISTING HSS 50x50

NEW C150x12 CONNECTED TO EXISTING W250. PROVIDE WOOD CURB WALL ABOVE (SEE NOTES) @ ALL EDGES OF PLATFORM TO LINE UP WITH C150 & W250 BELOW. FRAME PLATFORM SURFACE WITH 38x89 @ 600 o/c c/w 13 PLYWOOD SHEATHING & 2-38x89 @ ALL UNIT ANCHORAGE LOCATION POINTS (BY OTHERS)

**WOOD CURB WALL**  
PROVIDE 38x89 (MIN) @ 400 o/c c/w 13mm PLYWOOD SHEATHING. CONNECT STUD WALL BOTTOM PLATE TO STEEL FRAMING (TOP FLANGE) BELOW WITH 13# THROUGH BOLT @ 600 o/c. SEAL ALL PENETRATIONS. SEE SECTION 1/S1.1



**1 SECTION**  
S1.1 1:10

**GENERAL NOTES**

- STRUCTURAL DESIGN BASED ON THE NATIONAL MANITOBA BUILDING CODE OF CANADA 2010 2011 EDITION.
  - IMPORTANCE CATEGORY: NORMAL
  - GROUND SNOW LOAD: SS = 1.9 KPA
  - ASSOCIATED RAIN LOAD: SR = 0.2 KPA
- DO NOT SCALE DRAWINGS.
- ALL DIMENSIONS ARE TO BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS AND EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
- THESE STRUCTURAL DRAWINGS SHOW THE COMPLETED STRUCTURE AND DO NOT INDICATE ALL COMPONENTS NECESSARY FOR SAFETY DURING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY ON AND AROUND THE JOBSITE DURING CONSTRUCTION.
- THE CITY REQUIRES USE OF EXISTING SHOWER ROOM (110B), EXISTING LOCKER ROOM (110C), AND EXISTING WASHROOM (110D) AT THE BEGINNING AND END OF EACH WORK DAY FOR CITY PERSONNEL TO SHOWER AND CHANGE. WORK IN ROOM 110B, 110C, 110D IS RESTRICTED TO BETWEEN 8:00 AND 15:30 HOURS TO ACCOMMODATE CITY USE OF THE FACILITY. CLEAN UP WASTE AND DEBRIS AT THE END OF EACH WORK DAY AND LEAVE THE ROOM IN WORKING ORDER. ALTERNATIVELY WORK IN (110B, 110C, 110D) CAN BE PERFORMED IN THE EVENING AND/OR WEEKEND.

**STRUCTURAL STEEL**

- STRUCTURAL STEEL TO CONFORM TO CSA-G40.21, "STRUCTURAL QUALITY STEELS" AND CSA-G40.20 "GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEEL".
- ALL ROLLED OR STEEL STRUCTURAL SECTIONS SHALL BE G40.21-50W. ALL ANGLES, CHANNELS AND PLATES SHALL BE G40.21-44W.
- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE PERFORMED IN ACCORDANCE WITH CAN/CSA S16-09, "STEEL STRUCTURES FOR BUILDINGS".
- 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".
- ALL BOLTED CONNECTIONS TO USE A325 HIGH STRENGTH BOLTS. MINIMUM CONNECTION SHALL CONSIST OF 2 BOLTS.
- ALL STRUCTURAL STEEL IS TO RECEIVE ONE COAT OF CISC/CPMA 1-73A QUICK DRYING SHOP PRIMER. STEEL RECEIVING FINISH PAINTING TO HAVE ONE COAT OF CISC/CPMA 2-75 QUICK DRYING SHOP PRIMER. STEEL TO BE CLEANED IN CONFORMANCE WITH SSPC-SP7.
- FABRICATOR TO NOTIFY ENGINEER OF ANY PROPOSED MEMBER SUBSTITUTIONS AND CHANGED CONNECTION DETAILS.
- 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.
- STRUCTURAL STEEL SUPPLIER IS TO SUBMIT ENGINEERING DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA COVERING THE DESIGN OF CONNECTIONS. TO THE PROJECT DESIGN ENGINEER FOR REVIEW PRIOR TO FABRICATION. CONNECTION DESIGN TO INCLUDE FOR ALL ADJUSTABLE CONNECTIONS REQUIRED TO SUITE FABRICATION AND ERECTION PROCEDURES AND TOLERANCES.

**PARTIAL ROOF FRAMING PLAN**

SCALE: 1:50

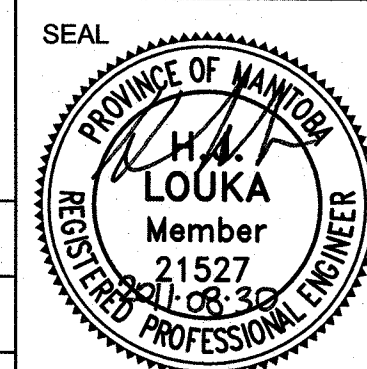
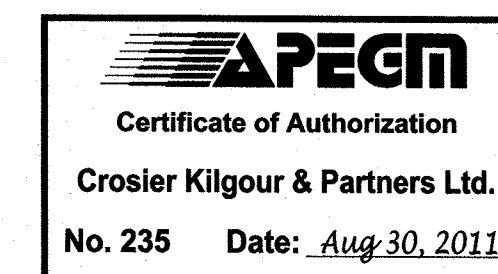
- SITE CONFIRM LOCATION OF ALL EXISTING ROOF FRAMING WITH RESPECT TO NEW UNITS TO BE INSTALLED & COORDINATE LOCATION OF NEW OPENINGS.
- SHOULD NEW OPENINGS NOT BE ABLE TO BE ACCOMMODATED BY EXISTING FRAMING, PROVIDE C100x11 ALL AROUND PERIMETER OF OPENING CONNECTED TO EXISTING STEEL BEAM FRAMING.
- SHIM/DRYPACK ABOVE NEW STEEL FRAMING TO PRECAST SLAB RIB ABOVE TO ENSURE SOLID BEARING.
- SEE ARCH/MECH FOR UNIT PLACEMENTS - GC TO COORDINATE.
- CONTACT CONSULTANT SHOULD SITE CONDITIONS VARY FROM THOSE NOTED.
- DESIGN LIVE LOAD = 1.72 KPa + SNOW BUILT-UP AS NOTED.

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2010-0156

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POSTED TO LBIS			<p>DESIGNED BY RDM</p> <p>CHECKED BY RDM</p> <p>DRAWN BY MS</p> <p>APPROVED BY</p> <p>HOR. SCALE</p> <p>RELEASED FOR CONSTRUCTION</p> <p>VERTICAL</p> <p>CONSULTANT DRAWING NO. S1.1</p>				CITY DRAWING NUMBER
3 ISSUED FOR FINAL REVIEW	30/08/11	RDM					
2 ISSUED FOR REVIEW	03/08/11	RDM					
1 ISSUED FOR REVIEW	20/05/11	RDM					
NO. REVISIONS	DATE	BY	DATE	30 Aug, 2011	DATE		



**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

**NORTH END WATER POLLUTION CONTROL CENTRE - LAB RENOVATIONS**

**PARTIAL ROOF FRAMING PLAN**

CITY DRAWING NUMBER 1-0101M-S0006-001-01