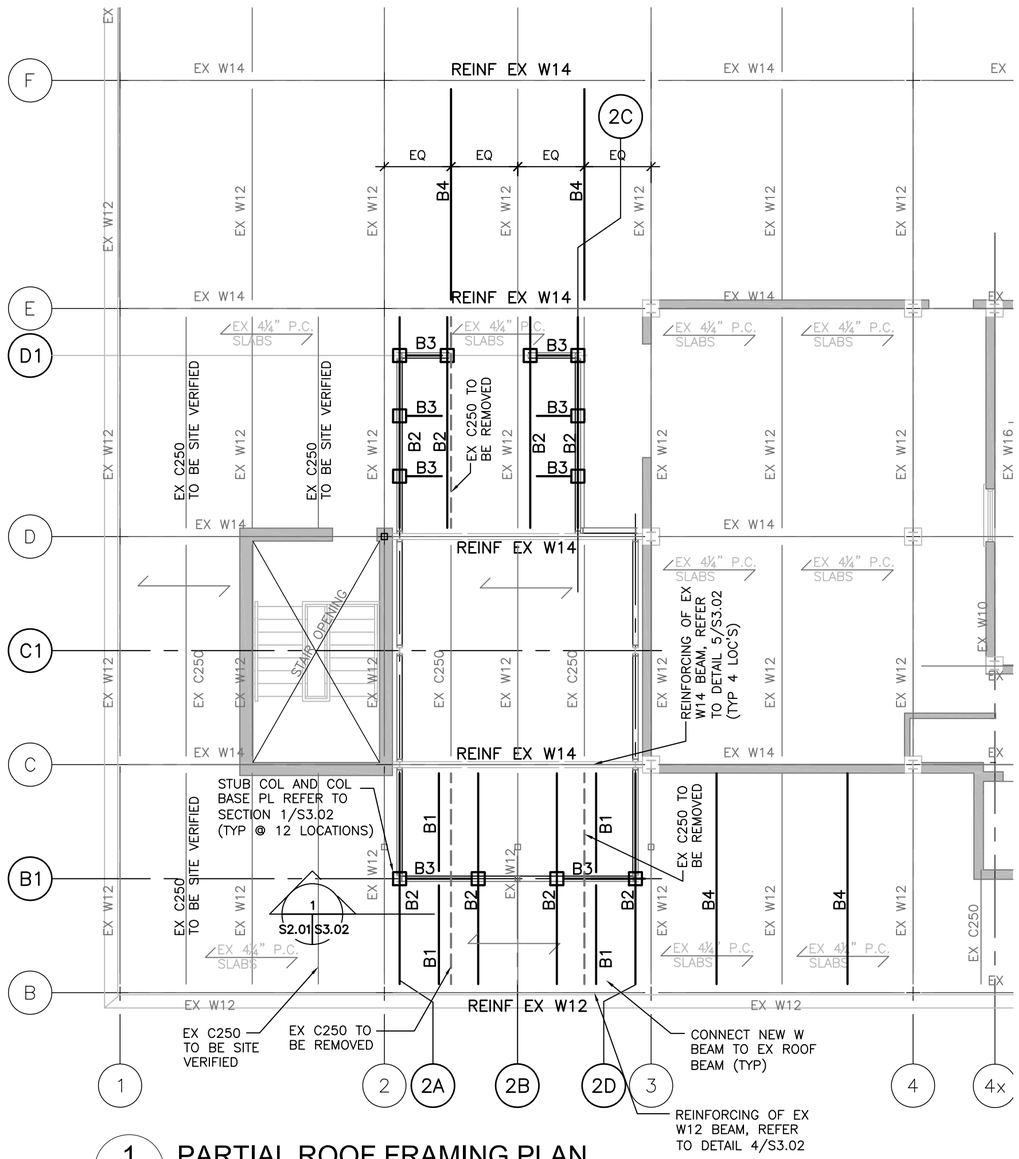
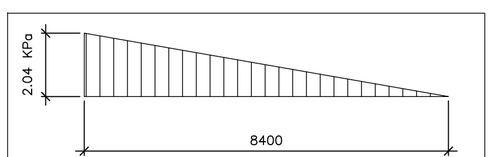
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 millimetres



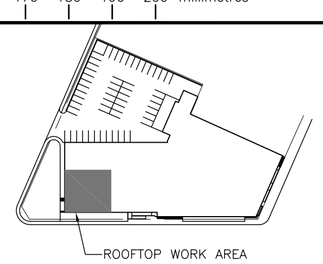
1 PARTIAL ROOF FRAMING PLAN
S2.01 SCALE: 1:100

BEAM SCHEDULE:

B1: NEW W310x39, TOP OF STEEL ELEV = +8878
B2: NEW W250x58, TOP OF STEEL ELEV = +8828
B3: NEW W310x39 (PROVIDE Mf=35kN–M EACH END) TOP OF STEEL ELEV = +8878
B4: NEW C250x23, TOP OF STEEL ELEV = +8878



TYP ASL ADJACENT TO ALL ACOUSTICAL WALL PANELS



KEY PLAN

GENERAL NOTES:

1. READ THESE DRAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE CONSULTANT PRIOR TO COMMENCING WITH THE AFFECTED WORK.

   COORDINATE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR THE SIZES AND LOCATIONS OF ALL OPENINGS.

2. DESIGN AND CONSTRUCTION OF THIS PROJECT SHALL COMPLY WITH THE CURRENT ONTARIO BUILDING CODE, (ONTARIO REGULATION 413).

3. CONSTRUCTION METHODS, EQUIPMENT AND ALL OPERATIONS SHALL CONFORM WITH ALL APPLICABLE REGULATION, ACTS AND BY–LAWS IN FORCE TO ENSURE THE SAFETY OF THE WORK AND CONTRACTOR'S PERSONAL AND OTHERS AT ALL TIMES.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT, ELEVATIONS, AND ALIGNMENT OF THE WORK AND SHALL VERIFY ALL DIMENSIONS AND DETAILS OF ANY EXISTING STRUCTURES NECESSARY FOR THE PROPER FITTING AND CONNECTING OF THE NEW WORK TO IT. REPORT TO ENGINEER ANY DISCREPANCIES AND ALL DOUBTFUL CONDITIONS BEFORE PROCEEDING WITH THE WORK.

5. DESIGN LIVE LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.

6. EXISTING CONDITIONS HAVE BEEN ASSUMED AND/OR OBTAINED FROM AS–BUILT DRAWINGS AND MAY OR MAY NOT REPRESENT THE ACTUAL SITE CONDITIONS. SITE VERIFY ALL CRITICAL SHOP DRAWINGS DIMENSIONS PRIOR TO FABRICATING STEEL. REPORT ANY DISCREPANCIES TO THE CONSULTANT PRIOR TO PROCEEDING WITH THE WORK.

7. CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH THE FULL SCOPE OF WORK PRIOR TO SUBMITTING BID. VISIT THE SITE AND THOROUGHLY FAMILIARIZE YOURSELF WITH THE EXISTING CONDITIONS BEFORE STARTING THE WORK.

8. PROVIDE ADEQUATE TEMPORARY SHORING AS NECESSARY FOR THE SAFE INSTALLATION OF THE STRUCTURAL SUPPORTS INDICATED.

ROOF FRAMING PLAN NOTES:

1. EXISTING CONDITIONS HAVE BEEN OBTAINED FROM AS–BUILT DRAWINGS AND MAY OR MAY NOT REPRESENT THE ACTUAL SITE CONDITIONS. SITE VERIFY ALL CRITICAL DIMENSIONS PRIOR TO FABRICATION AND REPORT ANY DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE PRIOR TO PROCEEDING WITH THE WORK.

2. TOP OF EXISTING P/C ROOF DECK ELEV = ±8992 ABOVE FINISHED GROUND FLOOR. EXISTING 4½"(114mm) THICK PRECAST ROOF DECK TO BE SITE VERIFIED.

3. ROOF DESIGN LIVE LOAD = Is[Ss(Cb)(Cw)(Ca)(Cs)+Sr]
   = 1.0[1.7(0.8)(1)(1)(1)+0.4]
   = 1.76 KPa.
   ADDITIONAL WATER RETENTION = 0
   ADDITIONAL SNOW LOAD FROM SNOW PILING IS SHOWN ON PLAN AS 'ASL'

   ROOF DESIGN DEAD LOAD PARAMETERS:

4 PLY B.U.R. (ASSUMED)	= 0.35 KPa
INSULATION (ASSUMED)	= 0.05 KPa
114mm P/C ROOF DECK	= 2.15 KPa
MECHANICAL + ELECTRICAL	= 0.20 KPa
CEILING + MISCELLANEOUS	= 0.20 KPa
TOTAL	= 2.95 KPa

4. DESIGN, FABRICATE, AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH CAN/CSA–S16–09, LIMIT STATES DESIGN OF STEEL STRUCTURES, AND THE CISC CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL. STRUCTURAL STEEL SHALL CONFORM TO G40.20/G40.21. GRADE OF 350 MPa FOR W AND HSS SECTIONS, AND 300 MPa FOR ANGLES, PLATES AND CHANNELS. ALL HSS SECTIONS ARE TO BE CLASS 'C'.

5. ALL BOLTED STEEL CONNECTIONS SHALL BE MADE ACCORDING TO 'TURN OF A NUT'. ALL BOLTED MOMENT CONNECTIONS AND V.B.X. CONNECTIONS SHALL BE PRETENSIONED BOLTS USED IN SLIP CRITICAL CONNECTIONS WITH CLASS 'A' CONTACT SURFACES ACCORDING TO S16–09. ALL FASTENERS TO ASTM A325M.

6. WELDING SHALL CONFORM TO CSA W59–03(R2008).

7. WELDING MATERIALS: TO CSA W59–03(R2008), CSA W48–06(R2011) AND CERTIFIED BY CWB.

8. HOT DIP GALVANIZING TO ASTM A123/A123M–12.

9. ALL EXPOSED STEEL AND WHERE INDICATED ON DRAWINGS TO HAVE A HOT DIP GALVANIZED FINISH IN ACCORDANCE WITH ASTM A123/A123M–12.

10. SITE TOUCH–UP AND REPAIR SHOP PRIMER AND GALVANIZED FINISHES AT BOLTS, WELDS AND BURNED OR SCRATCHED SURFACES USING SAME PRIMER AS APPLIED IN SHOP AND ZINC PAINT IN ACCORDANCE WITH ASTM A780–09.

11. AN INDEPENDENT TESTING COMPANY IS TO INSPECT STRUCTURAL STEEL IN THE SHOP AND IN THE FIELD FOR WELDING, CONNECTIONS, BOLT TORQUES AND GENERAL CONFORMANCE WITH STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS.

12. MECHANICAL EQUIPMENT LOADS AS SHOWN ON PLANS ARE TO BE CONFIRMED BY THE MECHANICAL CONTRACTOR.

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

DIALOG™

revision		date
04		
03	ISSUED FOR BID	2013–05–17
02	ISSUED FOR BID	2013–04–12
01	FOR REVIEW	2013–03–01

Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

LICENSED PROFESSIONAL ENGINEER
D.J. KHACHI
17 MAY 2013
PROVINCE OF ONTARIO

project title / titre du projet
Rooftop Chiller Enclosure
Government of Canada Building
11 Station Street
Belleville, Ontario

drawing title / titre du dessin
PARTIAL ROOF AND MECH PLATFORM FRAMING PLAN

drawn by / dessine par	DT
designed by / conc par	JK
approved by / approuve par	DK
bid / offre	IA (project manager / administrateur de projets)
project date / date du projet	2012.06.08
project no. / no. du projet	DIALOG NO. 09769T0100 R.049400.003
drawing no. / dessine no.	S2.01