

## GENERAL

1. THIS SET OF DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE STRUCTURAL SPECIFICATIONS. ANY DISCREPANCIES NOTED SHALL BE REPORTED IMMEDIATELY FOR CLARIFICATION.
  2. THIS SET OF DRAWINGS SHOWS THE COMPLETED STRUCTURE AND DOES NOT SHOW WORK WHICH MAY BE REQUIRED FOR SAFETY DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, INCLUDING BUT NOT LIMITED TO, A CONSTRUCTION PERMIT AND FOR DESIGN AND ERECTION OF ALL FALSWORK, SHORING, BRACING ETC. TO ENSURE THE SAFETY OF ALL CONSTRUCTION TEMPORARY LOADS AND TO COMPENSATION BOARD OF BRITISH COLUMBIA. ALL TEMPORARY WORKS AND SHORING ETC. SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN BRITISH COLUMBIA.
  3. ALL CODE REFERENCES ARE TO LATEST EDITIONS AS REFERENCED IN THE NATIONAL BUILDING CODE OF CANADA 2006 AND BRITISH COLUMBIA BUILDING CODE 2006.
- REFER TO SPECIFICATIONS FOR ALL MATERIAL SPECIFICATIONS AND CODE REFERENCES.

## FIELD REVIEW:

1. DERIVATIVE REPRESENTATIVE THROUGH CDM CONSULTING ENGINEERS PROVIDES PREPARED BY CDM CONSULTING ENGINEERS LTD. THIS REVIEW IS A FORMAL REVIEW AT THE PROFESSIONAL JUDGMENT OF CDM CONSULTING ENGINEERS LTD. CONFORMANCE WITH THE PLANS AND SUPPORTING DOCUMENTS PREPARED BY CDM CONSULTING ENGINEERS LTD. THE REVIEWER'S SIGNATURE AND DATE OF THE COMPLETION OF LETTERS OF ASSURANCE REQUIRED BY THE APPLICABLE BUILDING CODE.
2. ALL NON-CONFORMING WORKS THAT REQUIRE REMEDIAL ACTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY EXTRA COST INCURRED TO REMEDY THE NON-CONFORMING WORK SHALL BE BORNE BY THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT.

## NON-STRUCTURAL COMPONENTS:

1. NON-STRUCTURAL COMPONENTS OF THE PROJECT ARE DESIGNED, DETAILED, SPECIFIED AND REVIEWED IN THE FIELD BY OTHERS, LETTERS OF CERTIFICATION OF MANUFACTURE, INSTALLATION ETC. OF SUCH COMPONENTS ARE BY OTHERS.
2. MANUFACTURERS OF NON-STRUCTURAL COMPONENTS WHICH AFFECT THE STRUCTURE FRAMING SHALL SUBMIT SHOP DRAWINGS TO THE DEPARTMENT REPRESENTATIVE FOR REVIEW. THE REVIEW WILL BE LIMITED TO THE EFFECT OF THE COMPONENTS ON THE STRUCTURAL FRAMING.
3. EXAMPLES OF NON-STRUCTURAL COMPONENTS INCLUDE, BUT ARE NOT LIMITED TO:
  - ARCHITECTURAL COMPONENTS SUCH AS HANDRAILS, GUARDRAILS, RAILINGS, ORNAMENTAL COMPONENTS ETC.
  - MECHANICAL, ELECTRICAL, PLUMBING, ELEVATORS, VEHICLE PROTECTION SYSTEMS, ARCHITECTURAL PRECAST CONCRETE AND THEIR ATTACHMENTS.
  - LANDSCAPING COMPONENTS SUCH AS BENCHES, LIGHT POLES, PLANTERS, ETC.
  - CLIMATIC WALL SYSTEMS, GLAZING, SPLITTER, WINDOW WALLINGS, ETC.
  - SUPPORT AND BRACING FOR OVERHEAD BEARING STEEL-WOOD WALLINGS, ETC.
  - WINDOW WALLINGS, WINDOW WALLINGS, WINDOW WALLINGS, ETC.
  - WINDOW WASHING EQUIPMENTS AND ITS ATTACHMENTS.
  - PROPRIETARY SUPPORT BEAMS AND THEIR ATTACHMENTS.
  - NON-STRUCTURAL MASONRY.

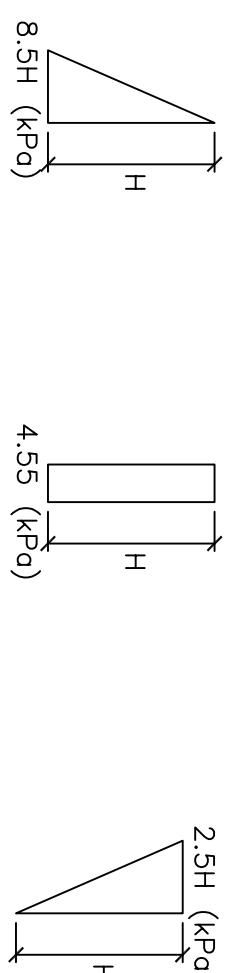
## DESIGN LOADS:

- |    |  |
|----|--|
| 1. | THIS STRUCTURE HAS BEEN DESIGNED FOR SNOW, WIND AND SEISMIC FORCES IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THE BC BUILDING CODE 2006. IMPORTANT CATEGORIES = NORMAL (AS PER OTHERS REQUIREMENT) |
|    | GROUND SNOW:<br>$S_s = 2.6 \text{ kPa}$<br>$S_f = 1.3 \text{ kPa}$   |
|    | IMPORTANCE FACTORS FOR SNOW<br>$I_s = 1.0$ FOR STRENGTH<br>$I_s = 0.75$ FOR SERVICEABILITY<br>PROBABILITY $1/10 = 0.33$ kPa<br>PROBABILITY $1/50 = 0.39$ kPa   |
|    | WIND LOAD:<br>IMPORTANCE FACTORS FOR WIND<br>$I_w = 1.0$ FOR STRENGTH<br>$I_w = 0.9$ FOR SERVICEABILITY  |
|    | EARTHQUAKE FACTORS:<br>$Sa(0.2) = 0.50$ $Sa(1.0) = 0.20$ $Sa(2.0) = 0.15$  |

- [illegible]

## FOUNDATION AND SITE WORK

1. REFER GEOTECHNICAL REPORT PREPARED BY AEGIC EARTH AND ENVIRONMENTAL DATA SERVICES INC., DATED DECEMBER 21, 2010 AND ALL ITS SUPPLEMENTS AND AMENDMENTS FOR THE PROPOSED CONSTRUCTION OF THE NEW BRIDGE AND ALL OTHER SITE PREPARATION REQUIREMENTS NOTSHOWN ON THESE DRAWINGS.
2. DESIGN ALLOWABLE SOIL BEARING CAPACITIES:  
  
PAD FOOTINGS                      150 kPa  
PILE FOUNDATIONS                225 kPa  
SEMI-EMBEDDED PILES (UNDER FACTORED LOAD)     225 kPa
3. THE BASEMENT WALLS & SUPPORTING STRUCTURES HAVE BEEN DESIGNED FOR THE FOLLOWING SOIL LATERAL PRESSURE IN ACCORDANCE TO THE BUILDING CODE REQUIRED COMBINATIONS.



5. ALL FOOTING ELEMENTS INDICATED ON THE DRAWINGS ARE GENERAL, AND SHALL BE USED FOR ESTIMATING AND BIDDING PURPOSES. FOOTINGS MAY HAVE TO BE PLACED AT DIFFERENT ELEVATIONS AS A RESULT OF LOCAL SOIL CONDITIONS, UNDERGROUND UTILITIES, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY FOLLOW-UP TYPICAL DETAILS SHOWN ON THESE DRAWINGS FOR FOOTING PLACEMENT RELATIVE TO ADJACENT FOOTINGS, SWAMP AND OTHER EXCAVATED STRUCTURES AND LOCATE AS DIRECTED BY GEOLOGICAL ENGINEER.
6. THE BASES OF FOUNDATIONS SHALL BE PROTECTED FROM RAIN, SNOW AND ANY WATER INFILTRATION.
7. NO FOUNDATIONS MAY BE POURED BEFORE THE BEARING MATERIAL HAS BEEN IMPROVED.
8. INTERFERED AFTER INSPECTION AND APPROVAL BY THE DEPARTMENTAL REPRESENTATIVE, THE FOUNDATION SHALL BE CONSIDERED AS BEING OF A SOUND THICK CONCRETE AND GOOD TYPICAL STRENGTH.
9. COORDINATE CONSTRUCTION WITH UNDERGAS SERVICES AS SHOWN ON MECHANICAL, ELECTRICAL, ARCHITECTURAL, AND LANDSCAPING DRAWINGS.
10. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SITE DRAINAGE, GROUND ELEVATIONS AND DRAINAGE SLOPES.
11. CENTRE ALL FOOTINGS UNDER COLUMNS OR WALLS UNLESS NOTED OTHERWISE.
12. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR WATERPROOFING AND SEALANT REQUIREMENTS.

## CONCRETE REINFORCING:

1. REFER TO SPECIFICATIONS FOR CONCRETE STRENGTH, EXPOSURE CLASS & OTHER REQUIREMENTS
2. REINFORCING BARS  $f_y=600$  MPa. ALL DOWNES ANCHOR BOLTS AND INSERTS SHALL BE PLACED BEFORE THE CONCRETE IS POURED.
3. PROVIDE MINIMUM CONCRETE COVER TO REINFORCEMENT AS FOLLOWS:

CAST AGAINST EARTH	75mm
EXPOSED TO RAIN OR WEATHER	50mm
4. UNLESS NOTED OTHERWISE, PROVIDE MINIMUM SPOUCE LENGTHS TO REINFORCEMENT AS FOLLOWS:

ELASTOMER:	40mm
10M	450mm
15M	600mm
20M	750mm

## MASONRY

1. REFER TO SPECIFICATIONS FOR CONCRETE MASONRY & MORTAR STRENGTH, CODE REFERENCES AND OTHER REQUIREMENTS.
2. REINFORCING BARS  $f_y=400$  MPa.
3. UNLESS NOTED OTHERWISE, SPlice REINFORCING AND EMBED DOWELS AS FOLLOWS:  

DOWEL EMBEDMENT:	25M BARS: 800	SPICES:	25M BARS: 1500
VERTICAL JOINTS:	10M BARS: 400		15M BARS: 650
OF HOOK	15M BARS: 400		10M BARS: 650
	10M BARS: 300	WIRE REIN:	200
4. ALL VERTICAL REINFORCING SHALL RUN CONTINUOUS THROUGH BOND BEAMS AND UNITS OR BE SPICED AS SPECIFIED.
5. PROVIDE CORNER BARS FOR ALL HORIZONTAL REINFORCING. SPlice LENGTH AS SPECIFIED.
6. STRAIGHT OR HOOKED DOWELS SHALL BE PROVIDED IN FOUNDATIONS OR GRADE BEAMS TO MATCH ALL VERTICAL REINFORCING BARS. SPlice LENGTH AS SPECIFIED.
7. CELLS TO BE REINFORCED SHALL BE KEPT CLEAN & MORTAR.
8. FILL ALL EXISTING REINFORCING STEEL OR WIRE ROPE WITH 20MPa GROUT. TYPICAL GROUTING: 200-250 SLUMP. Puddle or pour to completely fill cells. REINBATE AFTER 10 TO 40 MINUTES, WHEN EXCESS WATER HAS BEEN OFF MASSAGE UNITS. TOP OF FILLED CONES WITH FRESH GRout AFTER REINBATING.
9. PROVIDE CLEAN-OUTS AT BOTTOM OF ALL GROUTED CONES FOR LIFTS OVER 1500.
10. CHECK STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL, LANDSCAPE AND ALL OTHER RELEVANT DRAWINGS FOR LOCATIONS AND SIZES OF BOLTS, SLICES AND OTHER INSERTS AND OPENINGS AS INDICATED OR SPECIFIED ELSEWHERE.
11. VERTICAL CORNER UNITS SHALL BE PROVIDED AT A MAXIMUM SPACING OF 800 FOR STRAIGHT WALLS AND 4000 FOR WALL WITH CORNERS. TERMINATE BOND BEAM REINFORCING AT CONTROL JOINTS. Ladder REINFORCING TO RUN THROUGH JOINTS.

## STRUCTURAL STEEL

1. REFERENCE TO SPECIFICATIONS FOR STEEL WORK, OPEN WEB STEEL JOISTS, STEEL DECK, DESIGN CODE REFERENCES AND OTHER REQUIREMENTS.
2. DRAWINGS FROM ALL CONSULTANTS SHALL BE EXAMINED FOR EXACT LOCATIONS, DIMENSIONS AND ELEVATIONS.
3. STEEL FABRICATORS AND CONTRACTORS SHALL CONFIRM ALL LOCATIONS, DIMENSIONS AND ELEVATIONS WITH ACTUAL SITE MEASUREMENTS BEFORE FABRICATION. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY FABRICATION AND WORK DONE PRIOR TO REVIEW AND APPROVAL OF THE SHOP DRAWINGS.

## ABBREVIATIONS

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  - LANDSCAPING COMPONENTS SUCH AS BENCHES, LIGHT POISTS, PLANTERS, ETC.
  - CLIFFER WALL SYSTEMS, CLADDING, SPLITTER, WINDOW MULLIONS, ETC.
  - SUPPORT AND BRACING FOR OVERHEAD BEARING STEEL-WOOD MULLIONS, ETC.
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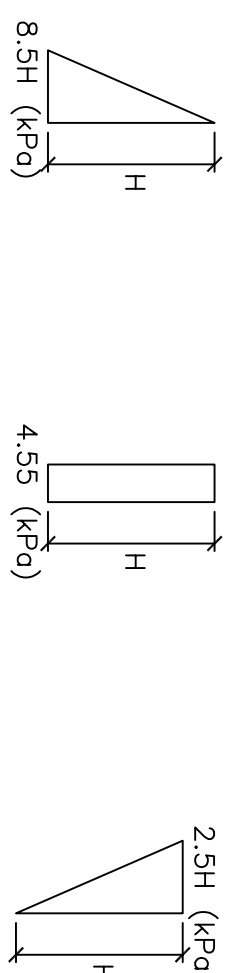
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## ABBREVIATIONS

[illegible]

DRAWING LIST (STRUCTURAL)	
S101	GENERAL NOTES
S102	TYPICAL SECTIONS & DETAILS
S201	FOUNDATION & MAIN FLOOR PLAN
S202	MEZZANINE FLOOR PLAN
S203	ROOF FRAMING PLAN
S204	MEZZANINE FLOOR SLAB REINFORCING PLAN
S301	SECTIONS & DETAILS
S302	MEZZANINE FLOOR SECTIONS & DETAILS
S303	ROOF SECTIONS AND DETAILS
S304	BRACING DETAILS

## GENERAL NOTES

Contractant Signature only	
Designed by / Conception par	LL / PL
Drawing by / Dessiné par	MC
Project Manager / Directeur de Projet	
Project Manager / Architecte en charge de l'ingénierie des systèmes	
Project Manager / Architecte en charge de l'ingénierie des systèmes	
Drawing title / Titre du dessin	

Project No./No. du projet	Sheet / Feuille <b>S101</b> of XX	Revision no./ La révision no. <b>0</b>
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