

D01) GENERAL

D01-1 GENERAL INFORMATION

- THE INFORMATION PRESENTED ON THESE DRAWINGS HAS BEEN DESIGNED AND ANALYZED IN ACCORDANCE WITH THE 2015 NATIONAL BUILDING CODE OF CANADA. CONSTRUCTION IS TO BE PERFORMED IN ACCORDANCE WITH THIS AND ALL OTHER APPLICABLE CODES.
- 1.1 STEEL STRUCTURE DESIGNED IN ACCORDANCE WITH CSA-S16-14
- CONTRACTOR IS TO VERIFY/COORDINATE ALL DIMENSIONS/PENETRATIONS WITH ARCHITECTURAL/MECHANICAL/ELECTRICAL DRAWINGS PRIOR TO CONSTRUCTION. REPORT INCONSISTENCIES BEFORE PROCEEDING WITH WORK. ANY OPENINGS NOT INDICATED ON STRUCTURAL DRAWINGS ARE TO BE APPROVED BY DEPARTMENTAL REPRESENTATIVE IN WRITING PRIOR TO CONSTRUCTION.
- SEISMIC RESTRAINT OF ARCH/MECH/ELECT ELEMENTS NOT NOTED ON THE DRAWINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR'S ENGINEER. RESTRAINT DETAILS ARE TO BE DEVELOPED IN ACCORDANCE WITH THE 2015 NBC. CONTRACTOR'S ENGINEER IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF SEISMIC RESTRAINTS AND ISOLATIONS AS REQUIRED BY SPECIFICATIONS INCLUDING THE VERIFICATION THAT THE EXISTING/NEW STRUCTURE IS CAPABLE OF SAFELY SUPPORTING THE IMPOSED LOADS IN ACCORDANCE WITH THE 2015 NBC. NO ELEMENTS MAY BE CONSTRUCTED WITHOUT WRITTEN CONFIRMATION OF THESE CONDITIONS BY CONTRACTOR'S ENGINEER.
- DRAWINGS SHOW COMPLETED STRUCTURE ONLY. CONTRACTOR TO PROVIDE PRE-ENGINEERED SHORING AS REQUIRED TO ACCOMMODATE THE CONTRACTOR'S CONSTRUCTION ACTIVITIES AND TO PREVENT DAMAGE TO ANY ADJACENT PROPERTY. ALL CONSTRUCTION ACTIVITIES TO BE LIMITED TO THE LIMITS OF THE CONSTRUCTION SITE AND ALL DAMAGE TO EXISTING PROPERTIES MUST BE REINSTITATED.
- CONTRACTOR IS RESPONSIBLE FOR CO-ORDINATING & TIMING OF THE CONSTRUCTION WITH RESPECT TO THE VARIOUS TRADES.
- PROPRIETARY SYSTEMS ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- DO NOT SCALE THESE DRAWINGS.
- DETAILS OF CONSTRUCTION ARE SHOWN BASED ON INFORMATION AVAILABLE AT THE TIME OF PREPARING DESIGN DRAWINGS. IF, DURING CONSTRUCTION, CONDITIONS ARE REVEALED THAT DIFFER FROM THE ASSUMED CONDITIONS, ADVISE THE DEPARTMENTAL REPRESENTATIVE BEFORE PROCEEDING.
- VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS ON SITE PRIOR TO FABRICATION.
- EXISTING STRUCTURE HAS BEEN REVIEWED FOR LOADS IMPOSED BY HUDDLE STRUCTURE AND TV MONITOR STAND, AND FOUND TO BE STRUCTURALLY ACCEPTABLE

D01-2 SHOP DRAWINGS

- SUBMIT SHOP DRAWINGS FOR ALL STRUCTURAL WORK AND ANY WORK AFFECTING THE STRUCTURE TO THE CONSTRUCTION MANAGER. OBTAIN DEPARTMENTAL REPRESENTATIVE'S APPROVAL BEFORE PROCEEDING WITH THE FABRICATION.
- EACH OF THE FOLLOWING SHOP DRAWINGS MUST BEAR THE SIGNATURE AND STAMP OF A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE (PLUS OTHER DRAWINGS AS NOTED):
  - DRAWINGS FOR ANY TEMPORARY WORK
  - DRAWINGS FOR ANY STRUCTURAL PARTS DESIGNED BY THE CONTRACTOR'S FORCES
  - STRUCTURAL STEEL/JOIST
  - STEEL TO STEEL CONNECTIONS
- SHOP DRAWINGS MUST BE REVIEWED AND STAMPED REVIEWED BY THE CONTRACTOR BEFORE ISSUING TO THE DEPARTMENTAL REPRESENTATIVE. SHOP DRAWINGS NOT STAMPED BY THE CONTRACTOR WILL BE REJECTED. ANY DELAYS IN THE CONSTRUCTION SCHEDULE DUE TO NONCOMPLIANCE WITH THIS REQUIREMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- SHOP DRAWINGS ARE REVIEWED FOR CONFORMANCE WITH THE GENERAL DESIGN CONCEPT. THIS REVIEW DOES NOT IMPLY APPROVAL OF THE DETAILED DESIGN OR QUANTITIES DESCRIBED IN THE SHOP DRAWINGS. THE RESPONSIBILITY FOR THE QUANTITIES AND DETAILED DESIGN OF THE MATERIALS AND COMPONENTS AS REQUIRED TO PROVIDE THE COMPLETE AND SATISFACTORY JOB DESCRIBED IN THE DESIGN DOCUMENTS REMAINS WITH THE CONTRACTOR.

D01-3) LATERAL LOADS: ELEMENTS OF STRUCTURES, NON-STRUCTURAL COMPONENTS AND EQUIPMENT

- ELEMENTS OF STRUCTURES, NON-STRUCTURAL COMPONENTS AND EQUIPMENT
- COMPONENTS OF BUILDING:  
CATEGORY 3: EXTERIOR AND INTERIOR ORNAMENTATIONS AND APPENDAGES  
 $C_p = 1$   $A_f = 2.5$   $R_p = 2.5$
- SEISMIC IMPORTANCE FACTOR: 2015 NBC CLAUSE 4.1.8.5  
 $I_e = \text{NORMAL} (1.0)$
- SITE CLASS: 'E' (ASSUMED)
- RESPONSE SPECTRUM DATA:

5% DAMPED SPECTRAL RESPONSE  
ACCELERATION VALUES FOR REFERENCE CITY: (2015 NBC)  
 $S_a(0.2) = 0.439$

DESIGN SPECTRAL RESPONSE ACCELERATION VALUES (DSRAV): (2015 NBC CLAUSE 4.1.8.4)

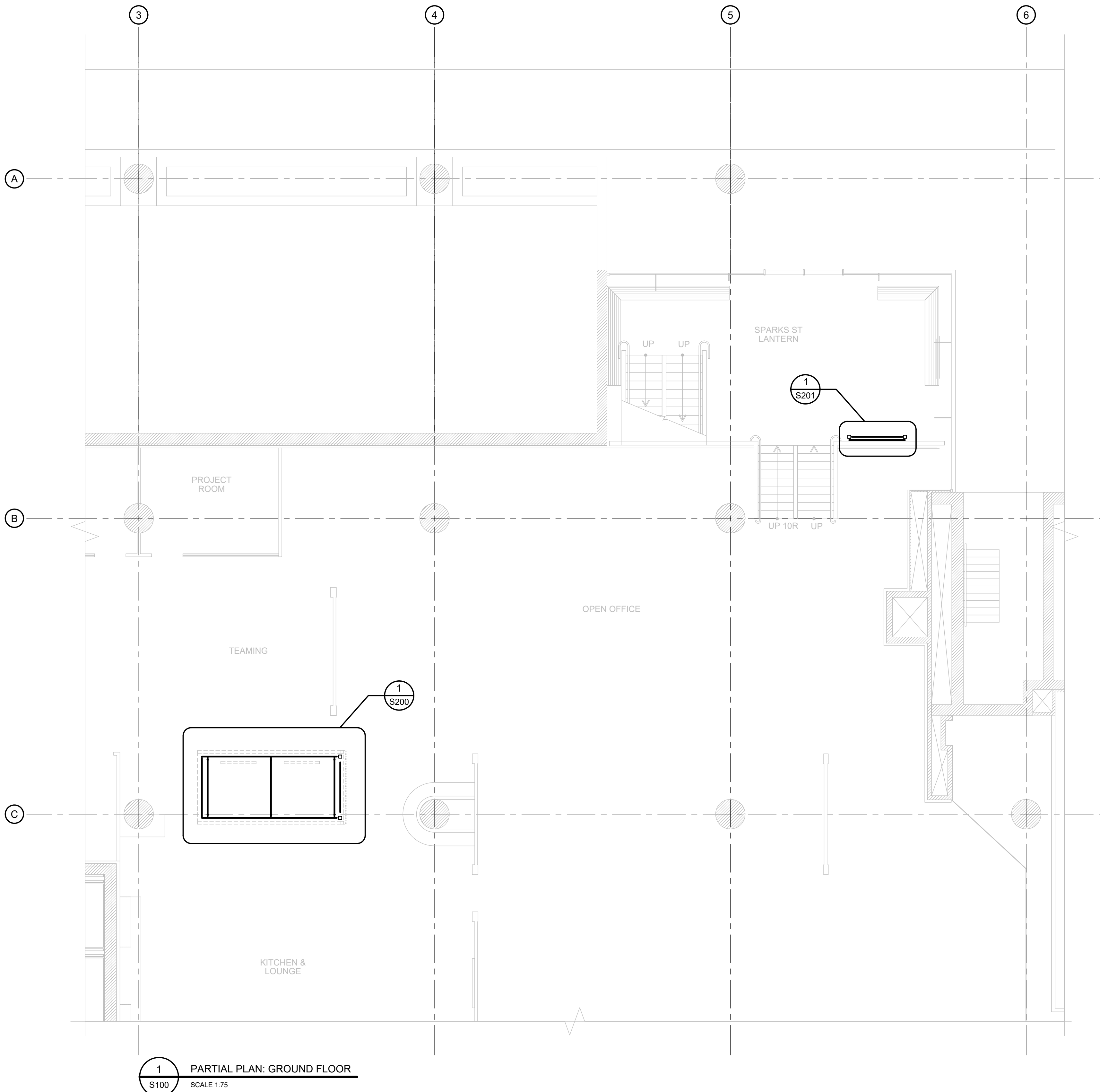
CLASS 'E': ( $F_a = 1.14$ )

- HEIGHT FACTOR:  $A_x = 1 + 2 \frac{h_x}{h_m} = 3$  (WORST CASE)

HORIZONTAL FORCE FACTOR:  $S_p = \frac{C_p A_f A_x}{R_p} = 3.0$

- WEIGHT OF COMPONENT OR ELEMENT: HUDDLE = 550 Kg  
MONITOR = 100 Kg

- LATERAL DESIGN FORCE:  $V_p = 0.3 F_a S_a (0.2) I_e S_p W_p$   
(2015 NBC CLAUSE 4.1.8.16)



L'ENTREPRENEUR DEVRA VÉRIFIER TOUTES  
LES DIMENSIONS ET LES CONDITIONS SUR LE  
CHANTIER ET AVISER SANS DÉLAI LE  
REPRÉSENTANT DU MINISTÈRE DE TOUTE  
ANOMALIE.

Contractor to verify all dimensions and  
conditions on site and immediately notify  
the departmental representative of all  
discrepancies.

4	ISSUED FOR TENDER	20190503
3	ISSUED FOR COORDINATION	20190402
2	ISSUED FOR TRANSLATION	20190402
1	ISSUED FOR 99% REVIEW	20190402

revisions	description	date
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A	A detail no. no. du détail	A
C	B location drawing no. sur dessin no.	B
	C drawing no. dessin no.	C

project projet

CD HOWE BLDG.  
LEVEL C2  
FRAMING

OTTAWA, ONTARIO

drawing dessin

GENERAL NOTES,  
AND PLAN

Designed By	K. ROCKLEY	Conçu par	
Date	(yyyy/mm/dd)		
Drawn By	A. WITTICH	Dessiné par	
Date	(yyyy/mm/dd)		
Reviewed By	K. ROCKLEY	Examiné par	
Date	(yyyy/mm/dd)		
Approved By	C. FLUDE	Approuvé par	
Date	(yyyy/mm/dd)		
Tender	ISMAT BEGUM	Soumission	

Project Manager Administrateur de projets  
Project no. R.100325.004 No. du projet

Drawing no. S100 No. du dessin