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

STRUCTURAL WORK

1. GENERAL

1.1. PROVIDE ALL MATERIAL AND LABOUR REQUIRED FOR THE COMPLETION OF THE WORK. BREAKDOWN OF WORK BY TRADE IS FOR GUIDANCE ONLY AND IS NOT NECESSARILY COMPLETE.
1.2. COORDINATE ALL WORK SHOWN ON THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, ALL OTHER DISCIPLINES AND EXISTING CONDITIONS (EXISTING CONDITIONS ARE ASSUMED). REPORT ANY INCONSISTENCIES TO THE DEPARTMENTAL REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
1.3. MAKE GOOD ALL EXISTING WORK DISTURBED BY THE SHORING OPERATIONS, EXCAVATION AND OTHER CONSTRUCTION PROCEDURES.
1.4. DO NOT SCALE THESE DRAWINGS.
1.5. SEE ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

2. CODES AND STANDARDS

2.1. IN COMPLIANCE WITH THE REQUIREMENTS OF THE 2010 NATIONAL BUILDING CODE OF CANADA (NBCC2010) IN FORCE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS. IN CASE OF CONFLICT OR DISCREPANCY, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

3. SUBMITTALS

3.1. SUBMIT FOR REVIEW BEFORE START OF WORK, 4 COPIES OF SHOP DRAWINGS FOR:
- CONCRETE FORMING
- CONCRETE REINFORCEMENT (INCLUDING PLACING DIAGRAMS AND BAR LISTS)
- STRUCTURAL STEEL

3.2. SUBMIT CONCRETE MIX DESIGNS BEFORE START OF WORK.
3.3. SHOP DRAWINGS FOR: CONCRETE FORMING AND STRUCTURAL STEEL SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN ONTARIO.
3.4. REVIEW OF SHOP DRAWINGS IS ONLY FOR GENERAL CONFORMITY WITH STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS. COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS, NOR DO THEY AUTHORIZE ANY CHANGES TO THE CONTRACT. REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE REVIEW OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE CONTRACTOR'S RESPONSIBILITIES INCLUDE ALL QUANTITIES, DETAIL DIMENSIONS, FIELD MEASUREMENTS, FABRICATION PROCESS, MEANS, METHODS, SEQUENCES AND PROCEDURES OF CONSTRUCTION, COORDINATION OF WORK WITH ALL TRADES AND PERFORMING ALL WORK IS A SAFE AND SATISFACTORY MANNER. THE REVIEW OF SHOP DRAWINGS DOES NOT IMPLY ANY CHANGE IN ANY OTHER CONSULTANTS' OR PROFESSIONALS' RESPONSIBILITIES RELATED TO DESIGN OF SPECIFIC ITEMS AS OUTLINED BY THE SPECIFICATIONS (SUCH AS STRUCTURAL STEEL CONNECTIONS, STEEL JOISTS, PRECAST ELEMENTS, ETC.).
3.5. AFTER REVIEW, ERECTION DIAGRAMS WILL BE RETURNED TO THE CONTRACTOR STAMPED TO SHOW ONE OF THE FOLLOWING:
NOT REVIEWED - SHOWS WORK WHICH IS NOT WITHIN THE SCOPE OF STRUCTURAL CONSULTING
REVIEWED - REVIEWED WITH NO COMMENTS.
NOTED - REVIEWED WITH COMMENTS NOTED ON DRAWING. SUBMIT TWO FINAL RECORD PRINTS AS SOON AS CORRECTIONS ARE MADE.
RESUBMIT - REVIEWED WITH COMMENTS NOTED ON DRAWING. CORRECT AND RESUBMIT FOR REVIEW.
CONFORM TO THE REQUIREMENTS OF EACH AUTHORITY THAT HAS REVIEWED THE DRAWINGS.
3.6. ALLOW A MINIMUM OF 5 WORKING DAYS FOR REVIEW OF EACH SUBMISSION OF SHOP DRAWINGS IN THE STRUCTURAL ENGINEER'S OFFICE. ALLOW MORE TIME WHEN LARGE QUANTITIES OF SHOP DRAWINGS ARE SUBMITTED. SUBMIT IN GENERAL CONFORMITY WITH THE SEQUENCE OF CONSTRUCTION INTENDED. CO-ORDINATE WITH THE DEPARTMENTAL REPRESENTATIVE. SHOP DRAWINGS RECEIVED AFTER NOON WILL BE DATE-STAMPED AS RECEIVED THE FOLLOWING WORKING DAY.

4. EXISTING STRUCTURE

4.1. EXISTING STRUCTURAL INFORMATION IS BASED UPON DRAWINGS PREPARED BY REID CROWTHER AND PARTNERS LTD. DATED DEC 1972.
4.2. TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE DURING CONSTRUCTION.
4.3. UNDERTAKE CHIPPING, CUTTING, CORING, REPAIRS, PATCHING, AND REMOVAL OF DEBRIS. MAKE CUTS WITH THE PROPER SAWS AND BITS WHEN A CLEAN LINE IS REQUIRED.
4.4. PROVIDE TEMPORARY SHORING AND BRACING REQUIRED FOR ALL CONSTRUCTION OPERATIONS, INCLUDING SUPPORT OF CRANES, TRUCKS AND ALL OTHER CONSTRUCTION EQUIPMENTS.
4.5. EXISTING DRAWINGS CONDITIONS ARE ASSUMED. REPORT ANY VARIATIONS TO THE DEPARTMENTAL REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
4.6. MAKE GOOD ONCE STRUCTURAL WORK IS DONE AND REVIEWED.

5. CONCRETE

5.1. CONFORM TO CSA A23.1 “CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION”.
5.2. INTERIOR APPLICATIONS (UNLESS OTHERWISE NOTED):
- CLASS OF EXPOSURE: N
- CEMENT: TYPE GU
- MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: 25 MPa.
- MAXIMUM WATER/CEMENTING MATERIAL RATIO: 0.45
- NOMINAL SIZE OF COARSE AGGREGATE: 20mm (3/4”).
- SLUMP AT TIME AND POINT OF DISCHARGE: 50mm (2”) TO 110mm (4 1/2”).

5.3. FOR DRILLED CONCRETE ANCHORS (DCA), LOCATE REBAR AND OTHER EMBEDMENTS IN CONCRETE FIRST AND ADJUST LOCATIONS OF ANCHORS AS INSTRUCTED BY ENGINEER IF THERE IS A CONFLICT. DO NOT CUT REBAR.
5.4. USE NEW EXTERIOR PLYWOOD CONFORMING TO CAN/CSA O121 FOR FORMWORK, EXCEPT FOR ROUGH CONCRETE IN AN UNEXPOSED LOCATION, SUCH AS FOUNDATIONS WHERE USED MATERIAL IS ACCEPTABLE. USE INTERNAL FORM TIES OF ADJUSTABLE METAL DESIGNED TO ACT AS SPREADERS, AND, WHICH WHEN REMOVED, WILL LEAVE NO METAL CLOSER THAN 25mm (1") TO CONCRETE SURFACE.
5.5. REINFORCEMENT: USE NEW DEFORMED BAR REINFORCEMENT CONFORMING TO CAN/CSA G30.18 GRADE 400R OR 400W.
5.6. WELDED WIRE FABRIC: CONFORM TO ASTM A185. PROVIDE IN FLAT SHEETS ONLY.

6. STRUCTURAL STEEL

6.1. CONFORM TO CAN/CSA S16 “LIMIT STATES DESIGN OF STEEL STRUCTURES”. LATEST VERSION IN EFFECT.
6.2. FABRICATOR SHALL BE CERTIFIED BY CANADIAN WELDING BUREAU UNDER REQUIREMENTS OF CSA W47.1, DIVISION 1 OR 2.
6.3. PROTECT COMBUSTIBLE MATERIALS AND FINISHES DURING WELDING OPERATIONS.
6.4. MATERIALS:
- WIDE FLANGE SECTIONS: CAN/CSA G40.21, GRADE 350W
- CHANNEL, ANGLES AND PLATES: CAN/CSA G40.21, GRADE 300W
- STEEL JOISTS: CAN/CSA G40.21, GRADE 350W, OR CAN/CSA S136
- HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE C (345 MPa FOR SQUARE / RECTANGULAR AND 317 MPa FOR ROUND), OR CAN/CSA G40.21, GR. 350W, CLASS C OR H
- HSS MEMBERS REQUIRED TO BE GALVANIZED SHALL BE CLASS H, OR STRESS RELIEVED PRIOR TO GALVANIZING
- MACHINE BOLTS: ASTM A307
- HIGH-STRENGTH BOLTS: ASTM A325M
- ANCHOR RODS: CAN/CSA G40.21, GRADE 300W
- FABRICATION: CAN/CSA S16
- WELDING: CSA W59
- PRIMER PAINT: CISC/CPMA 2-75
- ZINC-RICH PRIMER: CGSB 1-GP-171M
- GALVANIZING: CAN/CSA G164
- DRILLED ANCHORS: SEE DRAWINGS

6.5. ALL STRUCTURAL STEEL CONNECTIONS MUST BE DESIGNED BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR TO CONFORM TO CAN/CSA S16-01. USE HEADER ANGLES AND HIGH-STRENGTH BOLTS. DESIGN BEAM CONNECTIONS FOR AN END REACTION DUE TO THE UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE MEMBER UNLESS A GREATER REACTION IS NOTED ON THE DRAWINGS.
6.6. DO NOT SPLICE SECTIONS WITHOUT THE PRIOR ACCEPTANCE OF THE DEPARTMENTAL REPRESENTATIVE AND THE SUBMISSION OF PERTINENT SHOP DRAWINGS. ACCEPTED SPLICES WILL BE REQUIRED TO DEVELOP THE SECTION. EACH SPLICE SHALL BE GIVEN A NON-DESTRUCTIVE TEST BY AN INDEPENDENT INSPECTION COMPANY ACCEPTABLE TO THE DEPARTMENTAL REPRESENTATIVE. TESTING SHALL BE AT THE CONTRACTOR'S EXPENSE. EVALUATE RESULTS IN ACCORDANCE WITH CSA W59 AND REPORT TO THE DEPARTMENTAL REPRESENTATIVE.
6.7. APPLY PRIMER PAINT TO ALL STEELWORK, EXCEPT WHERE ZINC-RICH PAINT IS CALLED FOR ON THE DRAWINGS. TOUCH-UP PAINT AFTER ERECTION. SURFACES RECEIVING ZINC-RICH PAINT SHALL FIRST RECEIVE COMMERCIAL BLAST CLEANING.
6.8. ALL STEEL TO BE HOT DIPPED GALVANIZED TO CAN/CSA G164.
6.9. PROVIDE ALL ERECTION BRACING REQUIRED TO KEEP THE STRUCTURE STABLE AND IN ALIGNMENT DURING CONSTRUCTION.

7. INSPECTION AND TESTING

7.1. THE CONTRACTOR MUST PROVIDE INSPECTION REPORTS FOR STRUCTURAL STEEL, MASONRY STRENGTH TESTS AND TEST REPORTS FOR CONCRETE. ALL REPORTS MUST BE PREPARED BY AN INDEPENDENT INSPECTION AND TESTING AGENCY.
7.2. MAKE ONE STANDARD TEST FOR EACH 50 CUBIC METRES OF CONCRETE, BUT NOT LESS THAN ONE TEST FOR CONCRETE CAST EACH DAY. PROVIDE A GROUP OF THREE CONCRETE CYLINDERS FOR EACH STANDARD CONCRETE TEST. BREAK ONE CYLINDER AT 7 DAYS.
7.3. AT LEAST 6 MORTAR CUBES ARE TO BE TESTED FOR EACH 500 SQUARE METRES OF WALL, OR PORTION THEREOF. AT LEAST 2 CYLINDER TESTS SHALL BE MADE FOR EACH 20 CUBIC METRES OF GROUT OR LESS. TEST METHODS AND RESULTS SHALL CONFORM TO CSA A179.

8. CUTTING AND CORING

8.1. CONTRACTOR SHALL CARRY THE PRICE TO RETAIN AN INDEPENDENT TESTING COMPANY TO LOCATE EXISTING REINFORCEMENT AND CONDUIT IN THE AREAS OF PROPOSED OPENINGS AND TO MARK LOCATIONS ON THE SURFACES OF SLABS AND WALLS ON WHICH THE CORES AND CUTS ARE TO BE STARTED. X-RAY CONCRETE UNLESS OTHER METHODS CAN BE SHOWN BY CONTRACTOR TO ACCURATELY LOCATE REINFORCEMENT AND CONDUIT. IF LOCATIONS ARE NOT ACCEPTABLE TO DEPARTMENTAL REPRESENTATIVE, RELOCATE PROPOSED OPENINGS AND REPEAT PROCESS AT NO EXTRA COST TO THE CONTRACT.
8.2. CORING: DO NOT CUT EXISTING REINFORCEMENT AND CONDUIT WHEN CORING EXISTING CONCRETE UNLESS APPROVED IN ADVANCE BY THE DEPARTMENTAL REPRESENTATIVE. SAVE THE COMPLETE LENGTH OF ALL CORES. LABEL EACH CORE WITH LOCATION TAKEN. MAKE ALL CORES AVAILABLE FOR REVIEW BY DEPARTMENTAL REPRESENTATIVE. DISPOSE OF CORES ONLY WITH APPROVAL OF DEPARTMENTAL REPRESENTATIVE.
8.3. CUTTING: DO NOT CUT EXISTING REINFORCEMENT AND CONDUIT WHEN CUTTING EXISTING CONCRETE UNLESS APPROVED IN ADVANCE BY THE DEPARTMENTAL REPRESENTATIVE. DO NOT OVER CUT OPENINGS .CORE FOUR CORNERS AND ENDS OF INTERMEDIATE SAWCUTS OF ALL OPENINGS PRIOR TO CUTTING SIDES AND INTERMEDIATE LINES. SAWCUT SIDES AND INTERMEDIATE LINES.CHIP CORNERS SQUARE IF NECESSARY. IF NEW REINFORCEMENT IS REQUIRED AT AN OPENING, INSTALL REINFORCEMENT BEFORE CUTTING OPENING OR SHORE UP STRUCTURE UNTIL NEW REINFORCEMENT IS INSTALLED.

9. CONSTRUCTION REVIEW

9.1. NOTIFY THE DEPARTMENTAL REPRESENTATIVE 48 HOURS PRIOR TO COVERING UP THE STRUCTURE WITH FINISHES.

10. TEMPORARY BRACING AND SHORING

10.1. MAKE ADEQUATE PROVISIONS FOR ALL LOADS ACTING ON THE STRUCTURE DURING ERECTION. PROVIDE TEMPORARY SHORING AND BRACING TO KEEP THE STRUCTURE PLUMB AND IN TRUE ALIGNMENT DURING CONSTRUCTION. MEMBERS SHOWN ON THE PLANS ARE THOSE REQUIRED FOR THE COMPLETED STRUCTURE AND MAY NOT BE SUFFICIENT DURING CONSTRUCTION.
10.2. TEMPORARY BRACING AND SHORING ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL SHORING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR. PREPARE SHORING DRAWINGS SIGNED AND SEALED BY THE ENGINEER.

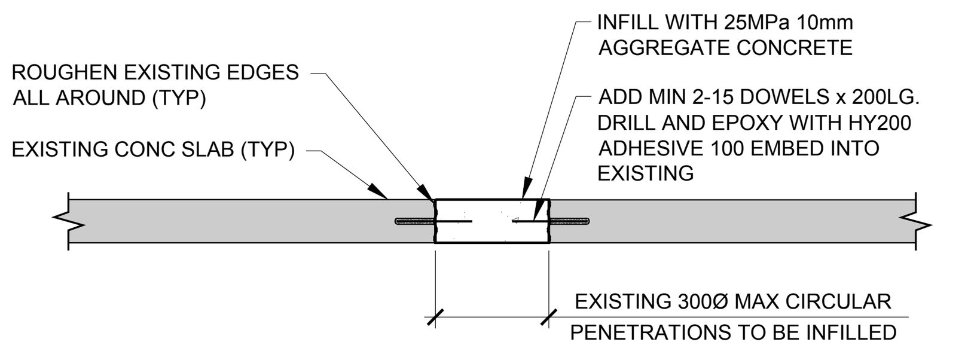
11. REJECTED WORK

11.1. DO NOT DELIVER TO THE SITE MATERIALS, WHICH ARE KNOWN NOT TO MEET THE REQUIREMENTS OF THE SPECIFICATIONS. IF REJECTED AFTER DELIVERY, REMOVE IMMEDIATELY FROM SITE.

DRAWING ABBREVIATIONS

ABC	ALBERTA BUILDING CODE
A-ROD	ANCHOR ROD
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
Af	FACTORED AXIAL LOAD IN kN (+ INDICATES TENSION, - INDICATES COMPRESSION)
ALT	ALTERNATE
ARCH	ARCHITECTURAL
B, BOT	BOTTOM
BOF	BOTTOM OF FOOTING
BOP	BOTTOM OF PILE
BCBC	BRITISH COLUMBIA BUILDING CODE
BCP	BORED CONCRETE PILE
BEW	BOTTOM EACH WAY
BLL	BOTTOM LOWER LAYER
BM	BEAM
BP	BASE PLATE
BSMT	BASEMENT
BUL	BOTTOM UPPER LAYER
BUP	BOTTOM OF UNDERPINNING
CA	COLUMN ABOVE ONLY (NO COLUMN BELOW)
CAM	CAMBER
CANT	CANTILEVER
CB	COLUMN BELOW
C/C	CENTRE TO CENTRE
CEL	CUT OFF ELEVATION FOR PILES
CF	CONCRETE FIREPROOFED
CJ	CONSTRUCTION JOINT
CL	CLEAR
℄	CENTRELINE
CNT	STEEL DECK CORE NOMINAL THICKNESS
COMP	COMPOSITE
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CP	CONNECTION PLATE
CWS	
CLS	SEE GENERAL NOTES
CSS	
DCA	DRILLED CONCRETE ANCHOR
DET	DETAIL
D.FIR-L	DOUGLAS FIR-LARCH
DIA, Ø	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD IN kN/m^2
DMA	DRILLED MASONRY ANCHOR
DN	DOWN
DO	DITTO
DP	DEEP
DWG	DRAWING
DWL	DOWEL
EA	EACH
ECR	EPOXY COATED REINFORCEMENT
EE	EACH END
EF	EACH FACE
EJ, EXP JT	EXPANSION JOINT
ELECT	ELECTRICAL
EL	ELEVATION
ELEV	ELEVATOR
EMBED	EMBEDMENT
EQ	EQUAL
EW	EACH WAY
EX, EXIST	EXISTING
FD	FLOOR DRAIN
FF	FAR FACE
FIN	FINISHED
FMC	FULL MOMENT CONNECTION
FTG	FOOTING
f'c	COMPRESSIVE STRENGTH OF CONC
fy	YIELD STRENGTH IN MPa
GALV	GALVANIZE
GB	GRADE BEAM
GL	GRIDLINE
h	TOTAL THICKNESS
H, HOR	HORIZONTAL
HDG	HOT DIPPED GALVANIZED
HEF	HORIZONTAL EACH FACE
HH	HOOK EACH END
HIC	HORIZONTAL IN CENTRE
HK	HOOK
HP	HIGH POINT
IBA	INTEGRITY BARS ADDED
IBI	INTEGRITY BARS INTERIOR
IBE	INTEGRITY BARS EXTERIOR
JG	JOIST GIRDER
ℓd	TENSION DEVELOPMENT LENGTH OF REBAR
ℓdc	COMPRESSION DEVELOPMENT LENGTH OF REBAR
L	SINGLE ANGLE
2-L	BACK TO BACK ANGLES

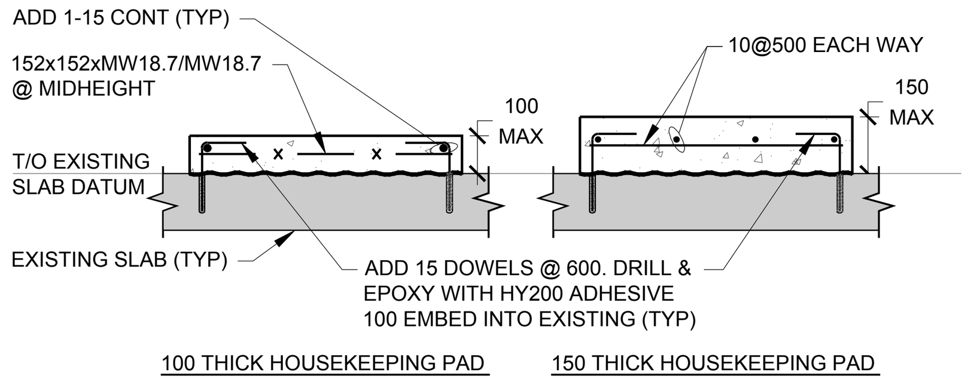
LE	LEFT END
LG	LONG
UL	UPPER LEVEL
LL	LOWER LEVEL
LL	LIVE LOAD IN kN/m^2
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSV	LONG SIDE VERTICAL
LSH	LONG SIDE HORIZONTAL
LP	LOW POINT
MAX	MAXIMUM
MECH	MECHANICAL
Mf	FACTORED MOMENT IN kN.m
MIN	MINIMUM
MJ	MOVEMENT JOINT
MPL	MASONRY PARTITION LOAD
MTf	FACTORED TORSION IN KN.m
(symbol)	MOMENT CONNECTION
NBC	NATIONAL BUILDING CODE
NF	NEAR FACE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OBC	ONTARIO BUILDING CODE
P	POINT LOAD IN kN, POST
Pf	FACTORED POINT LOAD IN kN
PL	PLATE
PS	PIPE SUPPORT
PT	POST TENSION
RA	ROOF ANCHOR
RD	ROOF DRAIN
REINF	REINFORCEMENT
RE	RIGHT END
RF	RIGID FRAME
Rf	FACTORED VERTICAL REACTION IN kN
RHf	FACTORED HORIZONTAL REACTION IN kN
RTU	ROOF TOP UNIT
SDF (symbol)	STEP DOWN FOOTING IN DIRECTION OF ARROW
SCA	STEEL COLUMN ABOVE (NO STEEL COLUMN BELOW)
SDL	SUPERIMPOSED DEAD LOAD (EXCLUDING SELF-WEIGHT) IN kN/m^2
SEC	SECTION
SIM	SIMILAR
SJ	STEEL JOIST
SLS	SERVICEABILITY LIMIT STATE
SOG	SLAB-ON-GRADE
SPF	SPRUCE PINE FIR
STIR	STIRRUP
STIFF	STIFFENER
t	THICKNESS
TB	TRANSFER BEAM
T	TOP
TEW	TOP EACH WAY
THK	THICK
TJ	TIE JOIST
TJA	TIE JOIST SUBJECT TO AXIAL LOAD
TLL	TOP LOWER LAYER
TOF	TOP OF FOOTING
TPL	TOP OF PILE
TPC	TOP OF PILE CAP
TS	TENSION SPLICE
TUL	TOP UPPER LAYER
TYP	TYPICAL
ULS	ULTIMATE LIMIT STATE
U/S	UNDERSIDE
U/N	UNLESS NOTED
UPT	UPTURNED
VB	VERTICAL BRACING
VBBL	VANCOUVER BUILDING BYLAW
V	VERTICAL
VEF	VERTICAL EACH FACE
Vf	FACTORED SHEAR IN kN
VIC	VERTICAL IN CENTRE
V, VERT, VERTS	VERTICAL, VERTICALS
VSC	VERTICALLY SLOTTED CONNECTION
VXB	VERTICAL 'X' BRACING
WC	WIND COLUMN
WWA	WINDOW WASHING ANCHORS
WWF	WELDED WIRE FABRIC
ZRP	ZINC RICH PAINT
(hatch)	MASONRY WALL
(cross-hatch)	FULLY GROUTED MASONRY WALL



INFILL EXISTING ROOF PENETRATIONS

REFER TO MECHANICAL FOR LOCATIONS (TYP)

PD01
SEPT 14



TYPICAL HOUSEKEEPING PAD

REFER TO MECHANICAL FOR LOCATIONS (TYP)

PD02
SEPT 14

Public Works and Government Services Canada
Architectural and Engineering Services
Ontario Region

Travaux publics et Services gouvernementaux Canada
Services d'architecture et de génie
Région de l'Ontario

north nord

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3	ISSUED FOR 100% REVIEW	14–10–28
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A Detail No. / No. du détail
B drawing no. – where detail required / dessin no. – où détail exigé
C drawing no. – where detailed / dessin no. – où détaillé

project title / titre du projet
BURLINGTON ONTARIO
CANADA CENTRE FOR INLAND WATERS
867 Lakeshore Road

ULTRA–TRACE #2
LAB RENOVATION

drawing title / titre du dessin
GENERAL REQUIREMENTS

drawn by / dessine par: P.MCKEE

designed by / conc par: S.JABBOUR

approved by / approuve par: S.JABBOUR

tender / soumission: SIMON LEE — project manager / administrateur de projets

project date / date du projet: 2014–02

project no. / no. du projet: R.066381.001

drawing no. / dessine no.: S1

SCALE: N.T.S.

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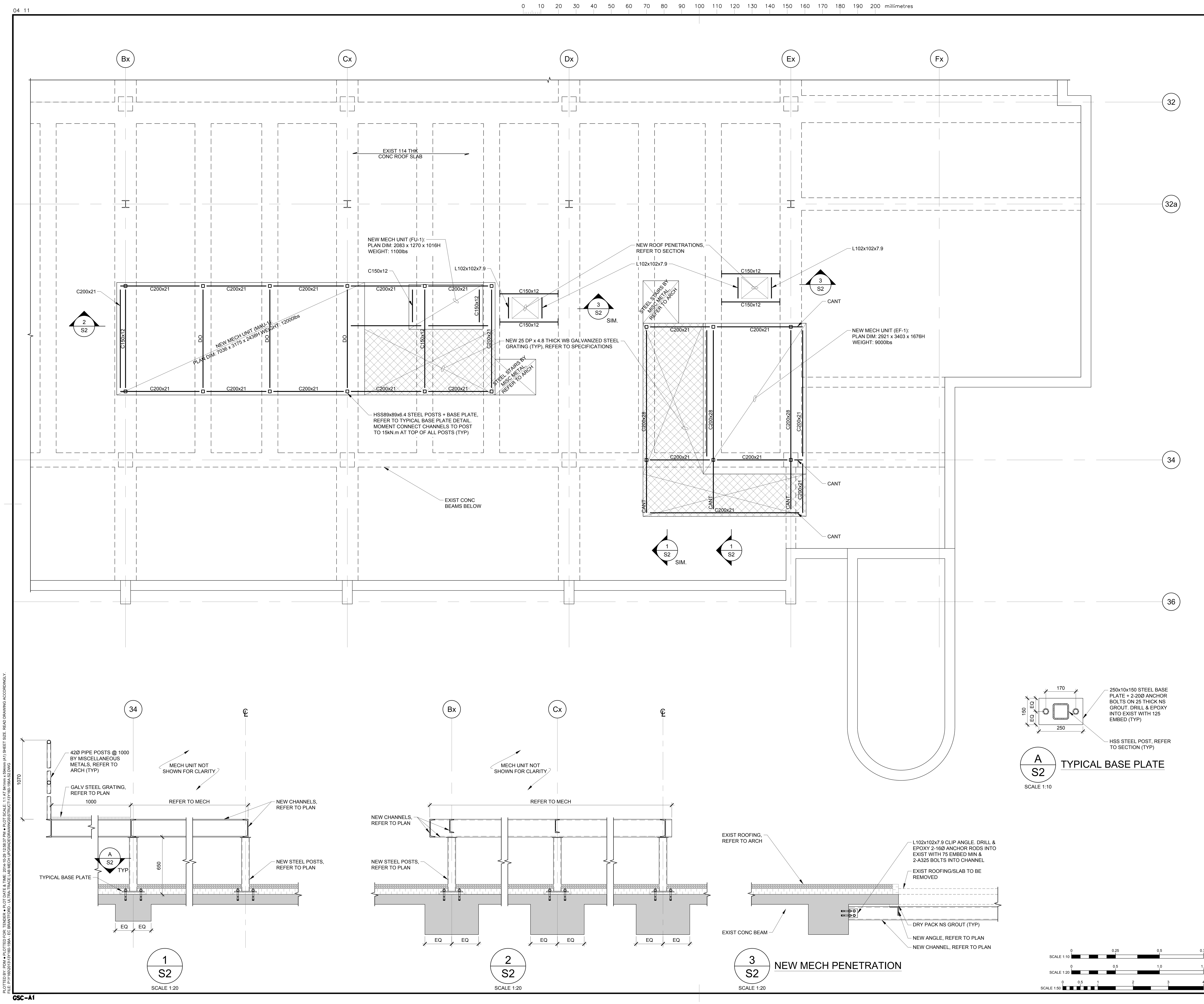

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drawing title / titre du dessin
PART ROOF FRAMING PLAN & DETAILS

drawn by / dessiné par	P.MCKEE
designed by / conc par	S.JABBOUR
approved by / approuvé par	S.JABBOUR
tender / soumission	SIMON LEE
project manager / administrateur de projets	
project date / date du projet	2014-02
project no. / no. du projet	R.066381.001
drawing no. / dessin no.	S2

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