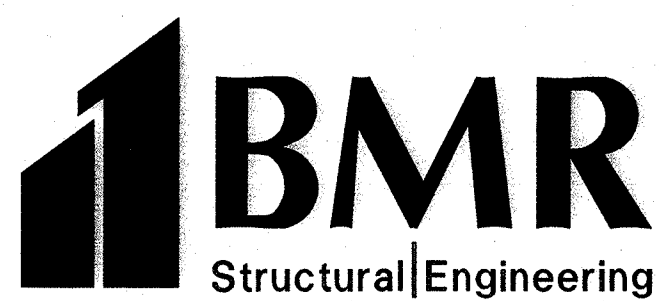


## ARCHITECTURE 49

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BMR Project No. 2014-167

### STEEL STUD DESIGN DATA

**SS1:** 600S162-54  
Ø 300 c/c MAX. SPACING

**T1:** 600T150-54  
CONTINUOUS TRACK

**T2:** 1000T200-54  
CONTINUOUS TRACK

**J1:** 1-600S162-54 AND  
1-600T200-54

**H1:** 2-600S162-54 AND  
2-600T150-54

**S1:** 600T150-54  
TRACK

WIND LOAD ON EXTERIOR WALLS = 1.7 kPa  
ROOF DEAD LOAD = 1.0 kPa  
ROOF LIVE LOAD = 3.0 kPa  
DEFLECTION LIMIT = L/360

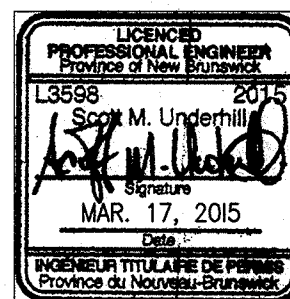
MEMBER DEPTH IN  
1/100ths INCHES  
THUS 600 MEANS  
600/100 = 6"

FLANGE WIDTH IN  
1/100ths INCHES  
THUS 162 MEANS  
162/100 = 1.62"  
or 1 5/8"

**600 S 162 - 43**

**STYLE:**  
S = STUD OR JOIST SECTIONS  
T = TRACK SECTIONS  
U = CHANNEL SECTIONS  
F = FURRING CHANNEL SECTIONS

**NOTE:**  
STUD SIZES GIVEN ARE MINIMUM GAUGE REQUIRED  
BASED ON LENGTHS AND LOADING. HEAVIER GAUGE  
STUDS MAY BE SUBSTITUTED AS REQUIRED.

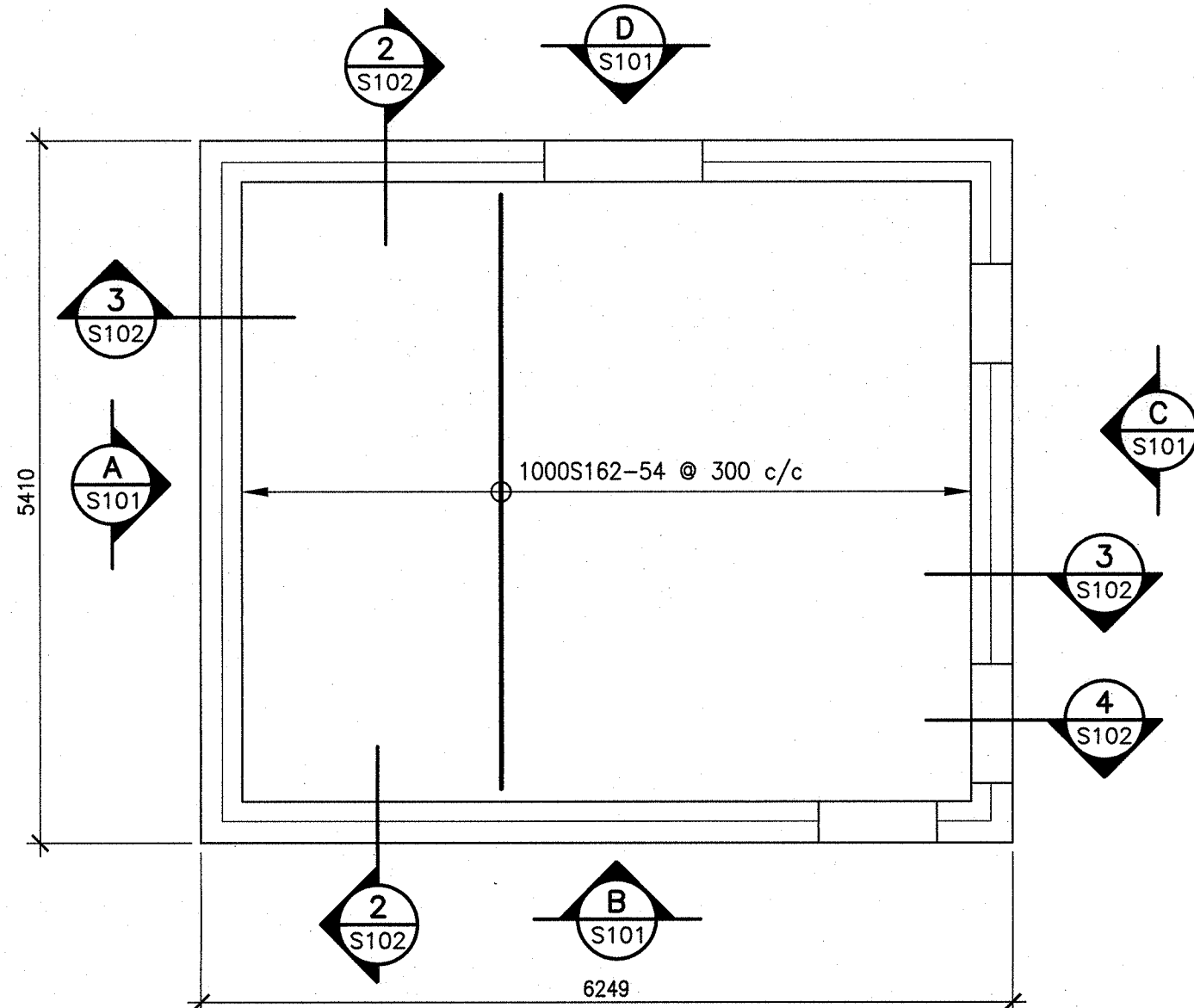


E	ISSUED FOR TENDER	MAR 17 2015
D	ADDITIONAL 99% REVIEW	FEB 16 2015
C	ISSUED FOR 99% REVIEW	JUN 23 2015
A	ISSUED FOR REVIEW	NOV 20 2014
revisions		date

project  
**ROOF AND PENTHOUSE  
REHABILITATION**  
**MONCTON GOCB  
1081 MAIN STREET**

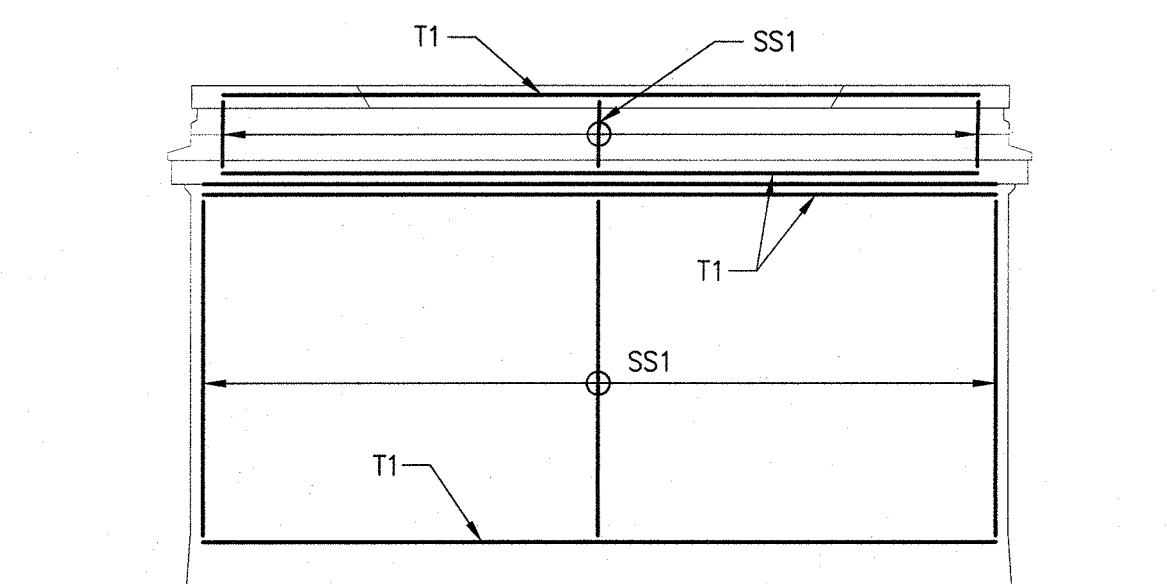
drawing  
**KEY PLAN, PENTHOUSE  
1 & 3 PLANS,  
SECTIONS, ELEVATIONS  
& NOTES**

designed	BA	conçu
date		
drawn	JR	dessiné
date		
approved		approuvé
date		
Tender		Submission
PWSSC Project Manager		Administrateur de projet
project number		no. du projet
	R.063297.001	
drawing no.		no. du dessin
	S-101	



**PENTHOUSE 1 FRAMING PLAN**

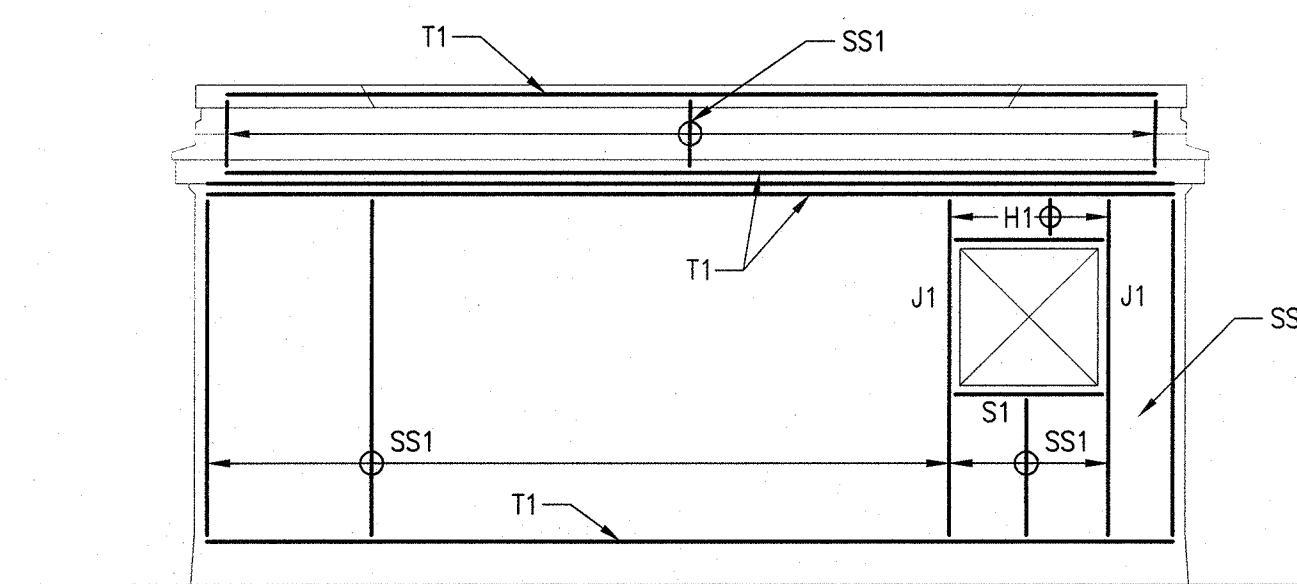
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**NORTH ELEVATION**

PENTHOUSE 1

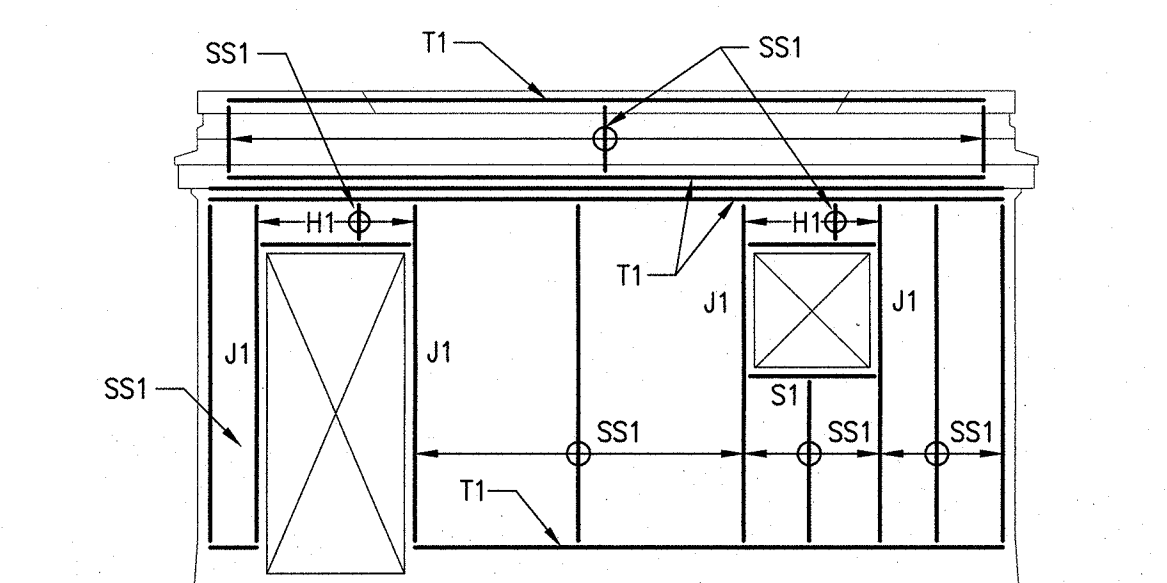
**A**  
S-101



**WEST ELEVATION**

PENTHOUSE 1

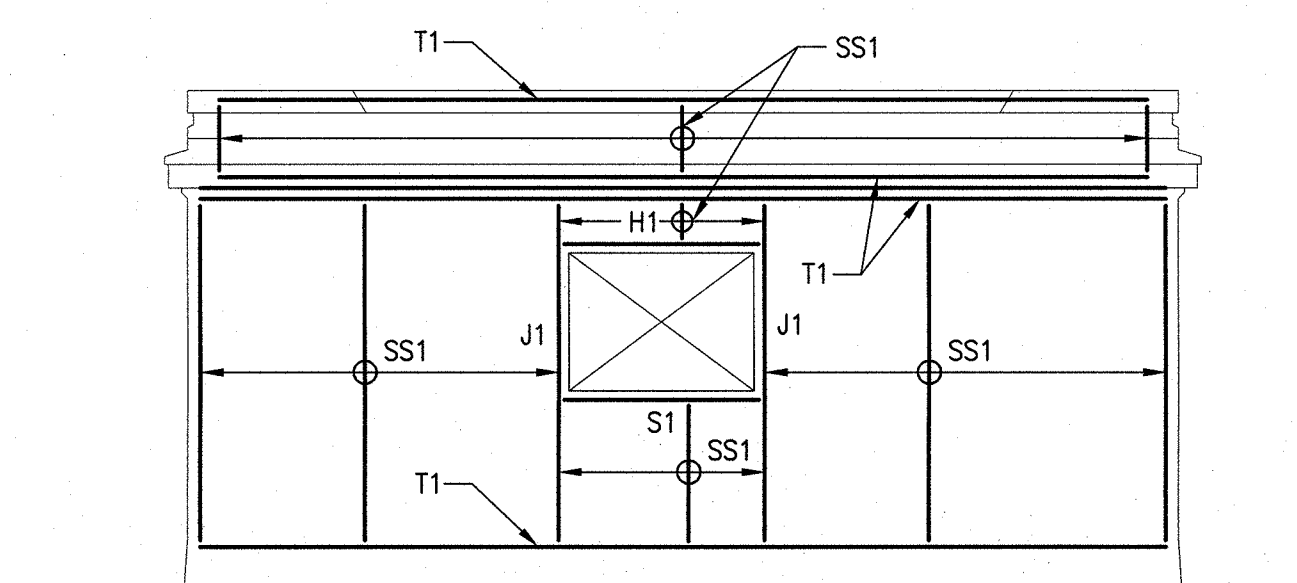
**B**  
S-101



**SOUTH ELEVATION**

PENTHOUSE 1

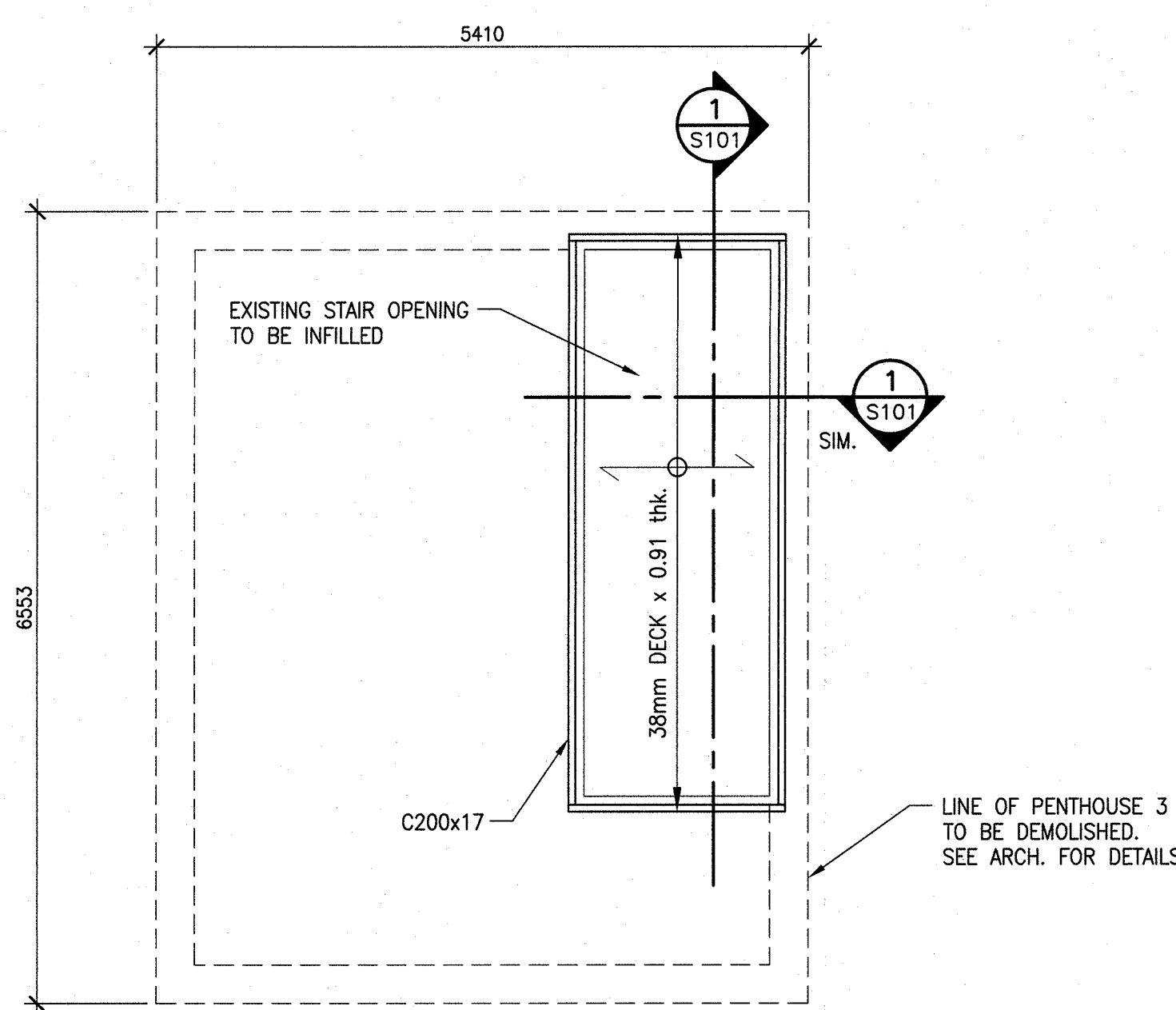
**C**  
S-101



**EAST ELEVATION**

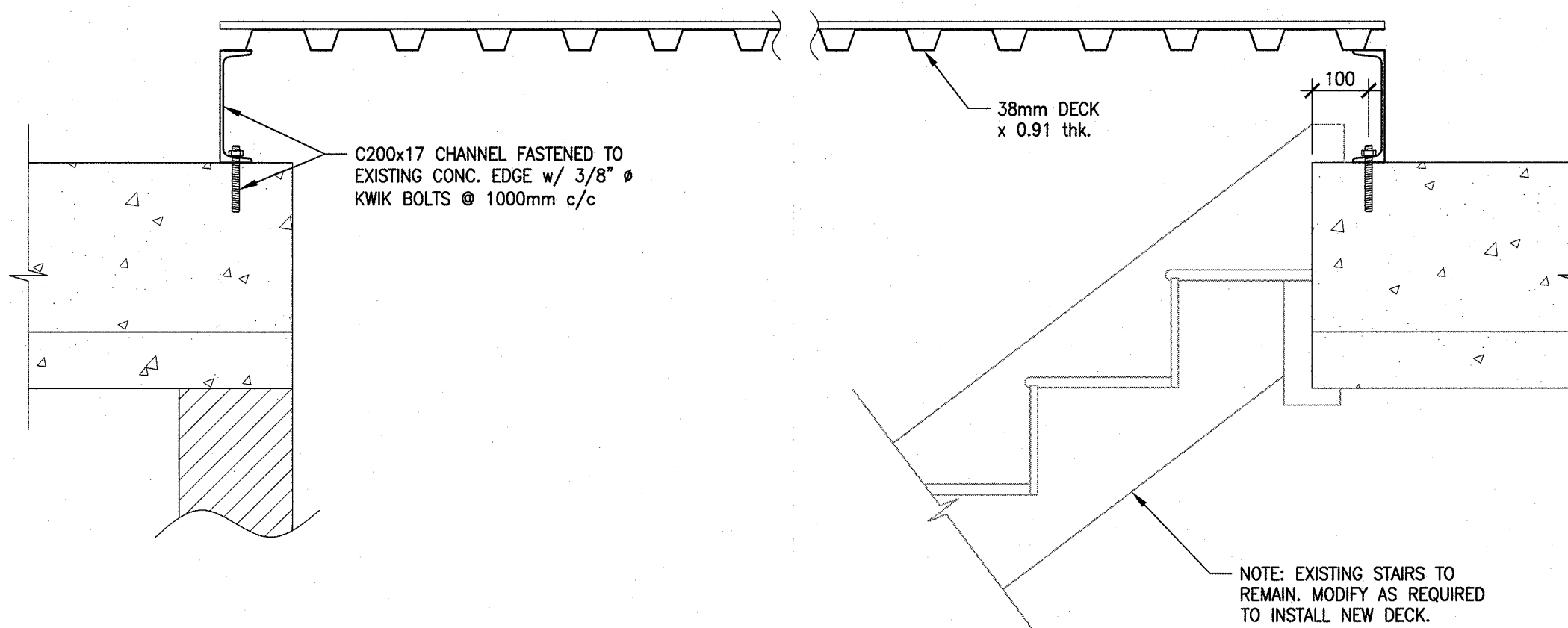
PENTHOUSE 1

**D**  
S-101



**PENTHOUSE 3 INFILL PLAN**

SCALE: 1:50



**SECTION**

SCALE: 1:10

**1**  
S-101

- GENERAL NOTES**
- ALL WORK AND MATERIALS SHALL CONFORM TO THE 2010 EDITION OF THE NATIONAL BUILDING CODE.
  - THE CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND CHECK ALL DIMENSIONS AGAINST SITE CONDITIONS AND REPORT ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
  - CONTRACTOR SHALL DESIGN, INSTALL AND MAINTAIN ADEQUATE TEMPORARY BRACING AND SHORING OF ALL STRUCTURAL ELEMENTS FOR STABILITY AND SAFETY WHERE REQUIRED DURING CONSTRUCTION. (THE ABOVE WORK IS BEYOND THE SCOPE OF BMR STRUCTURAL ENGINEERING).

### REINFORCED CONCRETE NOTES

- ALL CONCRETE STRUCTURES SHALL CONFORM TO CSA-A23.3 UNLESS NOTED OTHERWISE.
- ALL CONCRETE, CONCRETE MATERIAL, FORMS, PRACTICE, ETC., SHALL CONFORM TO CSA-A23.1 UNLESS NOTED OTHERWISE.
- MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE 35 MPa.
- ALL CONCRETE TESTING SHALL CONFORM TO CSA-A23.2.
- FOR COMPRESSIVE STRENGTH TESTING OF CONCRETE A MINIMUM OF 3 CYLINDERS ARE REQUIRED FOR:
  - EACH DAYS POUR
  - EACH TYPE OR GRADE OF CONCRETE
  - EACH CHANGE OF SUPPLIER
  - ADDITIONAL TEST SPECIMENS SHALL BE TAKEN WHENEVER REQUESTED BY THE ENGINEER OR THE SUPERVISOR TO VERIFY THE CONCRETE QUALITY.
- USE 20mm MAX. AGGREGATE SIZE THROUGHOUT UNLESS NOTED. SLUMP TO BE 75mm (±25mm) THROUGHOUT UNLESS NOTED.
- ALL CONCRETE EXPOSED TO WEATHER OR FREEZING CONDITIONS SHALL BE AIR ENTRAINED TO 6.5% (±1.5%).
- AT LEAST ONE SLUMP TEST SHALL BE TAKEN WITH EACH COMPRESSIVE STRENGTH TEST.
- AT LEAST ONE AIR ENTRAINMENT TEST SHALL BE TAKEN WITH EACH COMPRESSIVE STRENGTH TEST AS APPLICABLE.
- NO ADMIXTURES SHALL BE USED WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
- CONCRETE PROTECTIVE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS (UNLESS NOTED ON DRAWINGS):
  - EXPOSED TO EARTH OR WEATHER . . . . . 40mm
  - WALLS - PROTECTED . . . . . 20mm
- ALL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 400 MPa AND SHALL CONFORM TO CSA G30.18.
- ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED, PLACED AND SUPPORTED IN ACCORDANCE WITH "REINFORCING STEEL MANUAL OF STANDARD PRACTICE" BY THE REINFORCING STEEL INSTITUTE OF CANADA.

### STRUCTURAL STEEL NOTES

- ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERRECTED IN ACCORDANCE WITH CSA S16.
- ALL STRUCTURAL STEEL SHALL BE NEW STOCK AND CONFORM TO THE FOLLOWING GRADES AND STANDARDS:
  - CHANNELS, ANGLES, PLATE MATERIAL & RODS TYPE 300W.
- ALL WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH CSA W59 AND W55.3 BY A FABRICATOR FULLY APPROVED UNDER CSA W47.1 DIVISION No.1 or No.2.
- ALL BOLTS, NUTS AND WASHERS FOR STRUCTURAL STEEL CONNECTIONS SHALL CONFORM TO ASTM A325.
- ALL ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO CSA-G40.21 TYPE 300W.
- ALL FABRICATORS SHALL SUBMIT SHOP DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF CONSTRUCTION PRIOR TO COMMENCEMENT OF FABRICATION.
- ALL STEEL EXPOSED TO WEATHER TO BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123/A123M STANDARD SPECIFICATION FOR ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS.
- ALL STEEL DECK SHALL BE COATED TO ZF001 (A01) AS DECIBED BY ASTM A653.
- STEEL DECK FASTENING REQUIREMENTS U/NOTED ON DRAWINGS:
  - ROOF DECK:
    - 20mm DIA. TRANSVERSE PUDDLE WELDS Ø 300mm c/c
    - CLINCH SIDE LAPS Ø 600mm c/c
    - WELD DECK TO PERIMETER ANGLE OR SPANDREL BEAMS WITH 20mm DIA. PUDDLE WELDS Ø 300mm c/c

### MASONRY NOTES

- ALL MASONRY MORTAR FOR STONE VENEER SHALL BE TYPE 'N' TO CSA A179.
- AT LEAST FIVE (5) 50mm CUBE SPECIMENS OF MORTAR SHALL BE TESTED FOR IN ACCORDANCE WITH THE FOLLOWING CSA STANDARDS:
  - MORTAR AND GROUT . . . . . A179
- ALL MORTAR JOINTS SHALL BE 10mm.
- ALL INTERSECTING OR ABUTTING MASONRY MUST BE BONDED BY MASONRY BONDING UNITS, OR TIED WITH METAL ANCHORS TO MEET CAN3-A371.

### SHEATHING NOTES

- ALL PLYWOOD SHEATHING SHALL COMPLY WITH CSA-O325.0 - CONSTRUCTION SHEATHING.
- ROOF SHEATHING SHALL BE 19mm EXTERIOR GRADE PLYWOOD.
- ALL EXTERIOR WALL SHEATHING SHALL BE 19mm EXTERIOR GRADE PLYWOOD.
- INSTALL WOOD SHEATHING TO STUD WALLS AND ROOF FRAMING WITH JOINTS STAGGERED AND ENDS BUTTED OVER TRIMMING. SCREW WOOD SHEATHING WITH #10-24 WOOD TO METAL SELF-TAPPING SCREWS AT 150mm c/c ALONG EDGES AND INTERMEDIATE SUPPORTS.