

GENERAL NOTES:

1. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE REMAINDER OF THE CONTRACT DRAWINGS AND DOCUMENTS.
2. VERIFY ALL DIMENSIONS ON THE STRUCTURAL DRAWINGS WITH THE REMAINDER OF THE CONTRACT DRAWINGS BEFORE CONSTRUCTION. ANY DISCREPANCIES OR ERRORS MUST BE REPORTED TO THE ENGINEER PRIOR TO STARTING THE WORK.
3. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF WORK. DO NOT SCALE FROM DRAWINGS. REPORT ANY DISCREPANCIES TO THE CONSULTANT FOR CLARIFICATION BEFORE PROCEEDING.
4. DESIGN LOADS INDICATED ARE UNFACTORED UNLESS NOTED OTHERWISE.
5. DESIGN LIVE LOADS FOR EACH PORTION OF THE STRUCTURE ARE SHOWN. DO NOT EXCEED THESE LOADS DURING CONSTRUCTION.
6. STRUCTURAL DESIGN IS BASED ON THE LATEST EDITION OF THE NATIONAL AND ONTARIO BUILDING CODES. SUBSTRUCTURES AND WATER RETAINING TANKS, RESERVOIRS AND CONDUITS HAVE BEEN DESIGNED IN ACCORDANCE WITH CODE REQUIREMENTS FOR ENVIRONMENTAL CONCRETE STRUCTURES (ACI) 350-06 EXCEPT WHERE IT WAS NOT CONSIDERED APPLICABLE.
7. FEATURES OF CONSTRUCTION NOT FULLY SHOWN ARE OF THE SAME CHARACTER AS THOSE NOTED FOR SIMILAR CONDITIONS.
8. COORDINATE PLACEMENT AND LOCATION OF ITEMS BY SUBSEQUENT TRADES. RELEVANT TRADES SHALL REVIEW PRIOR TO ERECTION AND/OR INSTALLATION.
9. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SMALL OPENINGS, SLEEVES, RECESSES, DEPRESSIONS, SUMPS, TRENCHES, CURBS, HOUSEKEEPING PADS, EQUIPMENT BASES, AND SLOPES NOT INDICATED ON THE STRUCTURAL DRAWINGS.
10. DO NOT SCALE DRAWINGS.
11. ALL CODES REFERENCED ARE TO BE THE LATEST VERSION AT THE DATE OF ISSUE.

STRUCTURAL STEEL:

1. COORDINATE WITH MECHANICAL ENGINEER, ELECTRICAL ENGINEER AND ALL SUB-TRADES WHOSE WORK AFFECTS THE DETAILING, FABRICATION AND ERECTION OF THE STRUCTURAL STEEL. DO NOT CUT OPENINGS IN STRUCTURAL STEEL MEMBERS WITHOUT APPROVAL OF ENGINEER.
2. PREPARE AND SUBMIT FULLY DETAILED AND DIMENSIONED DRAWINGS AND ERECTION DIAGRAM. COPIES SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW. ERECTION DRAWINGS SHALL BE SEALED BY THE FABRICATOR'S ENGINEER.
3. COPIES OF THE ERECTION AND FABRICATION DRAWINGS SHALL BE PROVIDED AS REQUIRED FOR THE OWNER'S FILE AND/OR THE MUNICIPALITY.
4. BOLTED CONNECTIONS SHALL BE MADE USING HIGH TENSILE STRENGTH BOLTS.
5. PROVIDE TEMPORARY BRACING NECESSARY TO KEEP THE STRUCTURE TRUE AND PLUMB DURING CONSTRUCTION UNTIL PERMANENT BRACING IS INSTALLED. BRACING DESIGN SHALL BE PROVIDED AND CERTIFIED BY FABRICATOR'S ENGINEER.
6. ALL CONNECTIONS TO BE STANDARD FRAME BEAM CONNECTIONS AND ARE TO BE DESIGNED AND CERTIFIED BY THE FABRICATOR'S ENGINEER AS PER CSA S16.1.
7. VARIATIONS FROM PLUMB AND LEVEL:
EXTERIOR COLUMNS, SPANDREL BEAMS, AND ANGLES: ± 3/3000
OTHER MEMBERS: ± 6/3000
8. STEEL SHALL BE THOROUGHLY CLEANED AND BE GIVEN ONE SHOP COAT OF ANTI-CORROSIVE PRIMER. AREAS AFFECTED BY WEATHERING, OR ANY OTHER DAMAGE SHALL HAVE THE RUST REMOVED AND BE "TOUCHED UP" IN THE FIELD. STEEL PERMANENTLY EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED UNLESS NOTED ELSEWHERE. GALVANIZING SHALL BE REMOVED LOCALLY PRIOR TO ANY STRUCTURAL FIELD WELDING.

MATERIALS:

1. CONCRETE SLAB INFILL AND THICKENING SHALL BE 25 MPa, CLASS N.
2. ALL REINFORCING BAR SHALL BE GRADE 400MPa, DEFORMED, CAN/CSA-G30.18.
3. CONCRETE BLOCK SHALL CONFORM TO THE LATEST EDITION OF THE RELEVANT CODES AND STANDARDS AND THE BLOCK STRENGTH SHALL BE 15MPa ON NET AREA.
4. MORTAR SHALL BE TYPE "S" UNLESS NOTED OTHERWISE.
5. CONCRETE FILL IN REINFORCED MASONRY SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 20MPa.
6. COLUMN BEARING GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 40MPa.
7. STRUCTURAL STEEL TO CONFORM TO CAN/CSA-G40.21, UNO.
W SECTIONS: GRADE 350W
L AND C SECTIONS: GRADE 300W
HSS SECTIONS: GRADE 350 CLASS 'C'
8. THE WELDING ELECTRODES SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD W48 (LATEST EDITION).

MASONRY:

1. ALL MASONRY CONSTRUCTION SHALL CONFORM TO THE RELEVANT CODES AND STANDARD AS REQUIRED IN THE PROJECT SPECIFICATION.
2. THE MASONRY WORK HAS BEEN DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE APPLICABLE CODES AND STANDARDS AS REQUIRED BY THE PROJECT SPECIFICATIONS.
3. NO MASONRY WORK SHALL BE PERMITTED WITH THE TEMPERATURE BELOW 5°C UNLESS PROVISIONS ARE MADE FOR HEATING THE MATERIALS AND WORK AREA AND PROTECTING THE WORK.
4. OBTAIN ENGINEER'S PERMISSION FOR ALL OPENINGS, SLEEVES AND SLOTS OTHER THAN SHOWN ON THE STRUCTURAL DRAWINGS. WHERE DOWELS, ANCHOR BOLTS, ETC., ARE SHOWN PROJECTING INTO MASONRY, BUILD THESE INTO MASONRY VOIDS WITH GROUT.
5. ALL MASONRY SHALL BE SET WITH FULLY FILLED JOINTS.
6. CELLS TO BE REINFORCED SHALL BE KEPT CLEAN OF MORTAR.
7. PROVIDE A MINIMUM 25mm GROUT UNDER ALL WALL PLATES AND BASE PLATES AND BEAR ON SOLID MASONRY OF 400mm (MINIMUM) DEPTH.
8. PROVIDE AND INSTALL LINTELS OVER ALL OPENINGS OR RECESSES IN MASONRY WALLS INCLUDING THOSE FOR MECHANICAL OR ELECTRICAL SERVICES OR EQUIPMENT. IN ACCORDANCE WITH THE REQUIREMENTS OF THE LINTEL SCHEDULE.
9. PROVIDE A MINIMUM LENGTH OF 200mm OF 100% SOLID MASONRY UNITS FOR BEARING OF STEEL, CONCRETE OR REINFORCED MASONRY LINTELS. FILL LINTELS WITH 20MPa CONCRETE GROUT CONTAINING 10mm AGGREGATE.
10. ALL MASONRY WALLS TO BE REINFORCED WITH 15M @ 1200 UNLESS NOTED OTHERWISE.
11. THE CONCRETE CONTRACTOR MUST PROVIDE REINFORCING DOWELS PROJECTING FROM CAST-IN-PLACE CONCRETE INTO BLOCK WALLS TO MATCH VERTICAL REINFORCING IN BLOCK WALLS. LAPS IN REINFORCING:

WIRE REINFORCING	150
10M	600
15M	750
20M	950
25M	1100
30M	1600
35M	MECHANICAL SPLICE

12. FILL CELLS CONTAINING VERTICAL REINFORCING WITH 20MPa CONCRETE GROUT. CONTAINING 10mm AGGREGATE AND UP TO 250mm SLUMP. VIBRATE OR PUDDLE TO FILL CELLS COMPLETELY. USING JOINT MORTAR FOR FILLING THE CELLS IS NOT ACCEPTABLE AND WILL REQUIRE RECONSTRUCTION OF WALL.
13. FILL CELLS IN 1500mm HIGH LIFTS OR IF CLEANOUTS ARE PROVIDED IN 2400mm HIGH LIFTS.
14. PROVIDE CONTINUOUS LADDER TYPE JOINT REINFORCING AT 400mm c/c AND USE "CORNER-LOK" AT ALL WALL INTERSECTIONS. REINFORCING TO BE GALVANIZED TO ASTM A153 CLASS B2 (458g/m²).

FOR CAVITY WALL AND SINGLE WYTHE 3.65mm Ø WIRES (9 GAUGE)
FOR COMPOSITE WYTHE 4.76mm Ø WIRES
15. ALL METAL ANCHORS TO SECURE WALLS EXPOSED TO WEATHER SHALL BE HOT DIP GALVANIZED.
16. ANCHOR MASONRY TO STEEL COLUMNS WITH STEEL STRAP PLATE AS INDICATED.
17. JOINTS IN MASONRY SHALL BE LOCATED AT LEAST 300mm FROM ANY OPENING IN THE WALL, UNLESS SPECIFICALLY NOTED OTHERWISE.

CAST-IN-PLACE CONCRETE:

1. DO CONCRETE WORK IN ACCORDANCE WITH THE LATEST VERSION OF THE APPLICABLE CODES AND STANDARDS.
2. SUBMIT REINFORCING DIAGRAMS BEFORE FABRICATION FOR REVIEW BY THE ENGINEER.
3. REINFORCING IS TO BE GENERALLY DETAILED IN ACCORDANCE WITH RSIC, MANUAL OF STANDARD PRACTICE (LATEST EDITION). SPLICES SHALL CONFORM TO "TABLE OF CLASS 'B' TENSION LAPS AND STANDARD 90° HOOKS" PROVIDED ON THE DRAWINGS.
4. THE CLEAR DISTANCE BETWEEN REINFORCING STEEL AND SURFACE OF CONCRETE SHALL BE AS FOLLOWS:

FORMED CONCRETE NOT EXPOSED TO WATER OR WEATHER: 40mm
FORMED CONCRETE EXPOSED TO WATER, WEATHER OR EARTH: 50mm
CONCRETE PLACED AGAINST MUD MAT: 50mm
CONCRETE PLACED AGAINST EARTH: 75mm
5. UNLESS INDICATED OTHERWISE, ALL DOWELS SHALL HAVE THE SAME SIZE AND SPACING AS THE REINFORCING STEEL TO WHICH THEY ARE SPLICED.
6. ALL REINFORCING STEEL PLACEMENT TO BE INSPECTED BY THE ENGINEER BEFORE PLACING THE CONCRETE.
7. NO WELDING OF REINFORCING BARS SHALL BE PERMITTED, UNLESS APPROVAL IS OBTAINED FROM THE ENGINEER PRIOR TO CONSTRUCTION.
8. DO NOT SAWCUT THE SLAB ON GRADE OR OTHER FLOORS, UNLESS SPECIFICALLY SHOWN AND DETAILED ON THE DESIGN DRAWINGS.
9. ALL REINFORCING BARS SHALL BE SUPPORTED IN THE FORMS AND SPACED WITH STANDARD ACCESSORIES SO THAT THERE IS NO MOVEMENT DURING CONCRETE PLACEMENT.
10. PROVIDE REINFORCING DOWELS PROJECTING FROM CAST-IN-PLACE CONCRETE INTO BLOCK WALLS TO MATCH VERTICAL REINFORCING IN BLOCK WALLS.

DELEGATED DESIGN:

1. SUBMIT SHOP DRAWINGS FOR COMPONENTS REQUIRING DELEGATED DESIGN UNDER THE SEAL AND SIGNATURE OF THE ENGINEER RESPONSIBLE FOR THE DESIGN TO THE PRIME CONSULTANT FOR COORDINATION REVIEW.
2. SHOP DRAWINGS SHALL CLEARLY INDICATE ANY LOADS IMPARTED TO THE STRUCTURE.
3. CONNECTIONS TO THE PRIMARY STRUCTURE SHALL ACCOMMODATE DEFLECTIONS IN THE PRIMARY STRUCTURE. THE CONTRACTOR MAY SEEK GUIDANCE FROM THE ENGINEER OF RECORD AS TO DESIGN LOADS, DEFLECTIONS, ETC.

EXISTING STRUCTURES:

1. DIMENSIONS PERTAINING TO EXISTING STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND FABRICATION. CIMA IS TO BE NOTIFIED OF ANY DISCREPANCIES.
2. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPAIR ANY DAMAGE TO THE EXISTING STRUCTURE, EQUIPMENT & FINISHES CAUSED BY THE CONSTRUCTION ACTIVITIES. REPAIRS SHALL BE SUBJECT TO THE ARCHITECT'S APPROVAL.

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2	2025-07-14	ISSUED FOR PERMIT & TENDER	S.Y.
1	2025-07-02	ISSUED FOR CLIENT REVIEW	S.Y.
No.	Date	Description	By

STAMPS:



DESIGNED BY

APPROVED BY

CONSULTANT(S):

ENGINEER:



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Toronto ON M5R 2V3

PROJECT NAME:

CHANGE ROOM RENOVATIONS

SHEET TITLE:

GENERAL NOTES

DISCIPLINE:

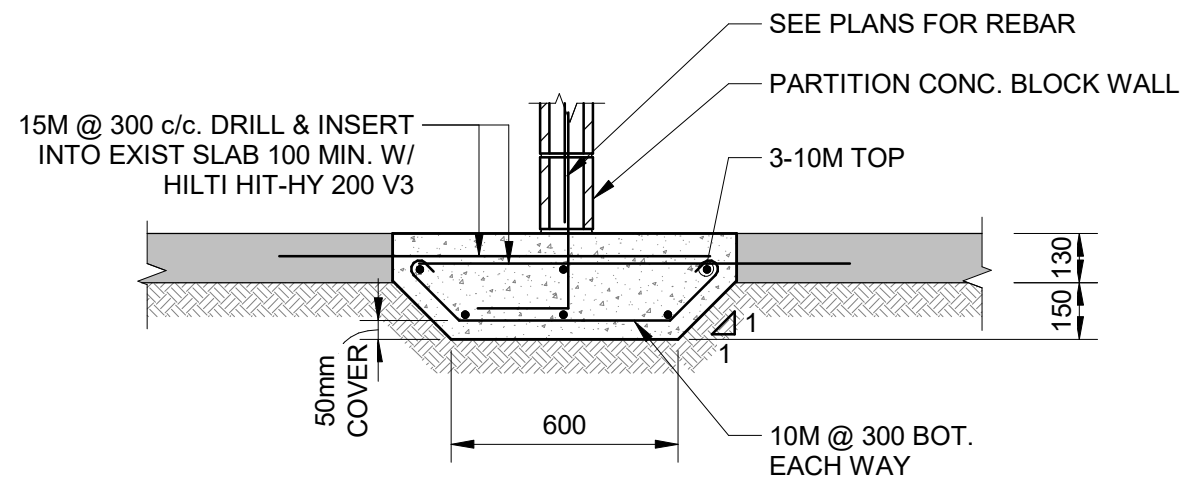
STRUCTURAL

DRAFTER:	K.L.	SCALE:	AS NOTED
DESIGNER:	M.J.	DATE:	2025-07-14
APPROVER:	S.Y.	CHECKER:	S.Y.
PROJECT No:	Z0023519	DRAWING No:	S001
SHEET No:	1 of 2		

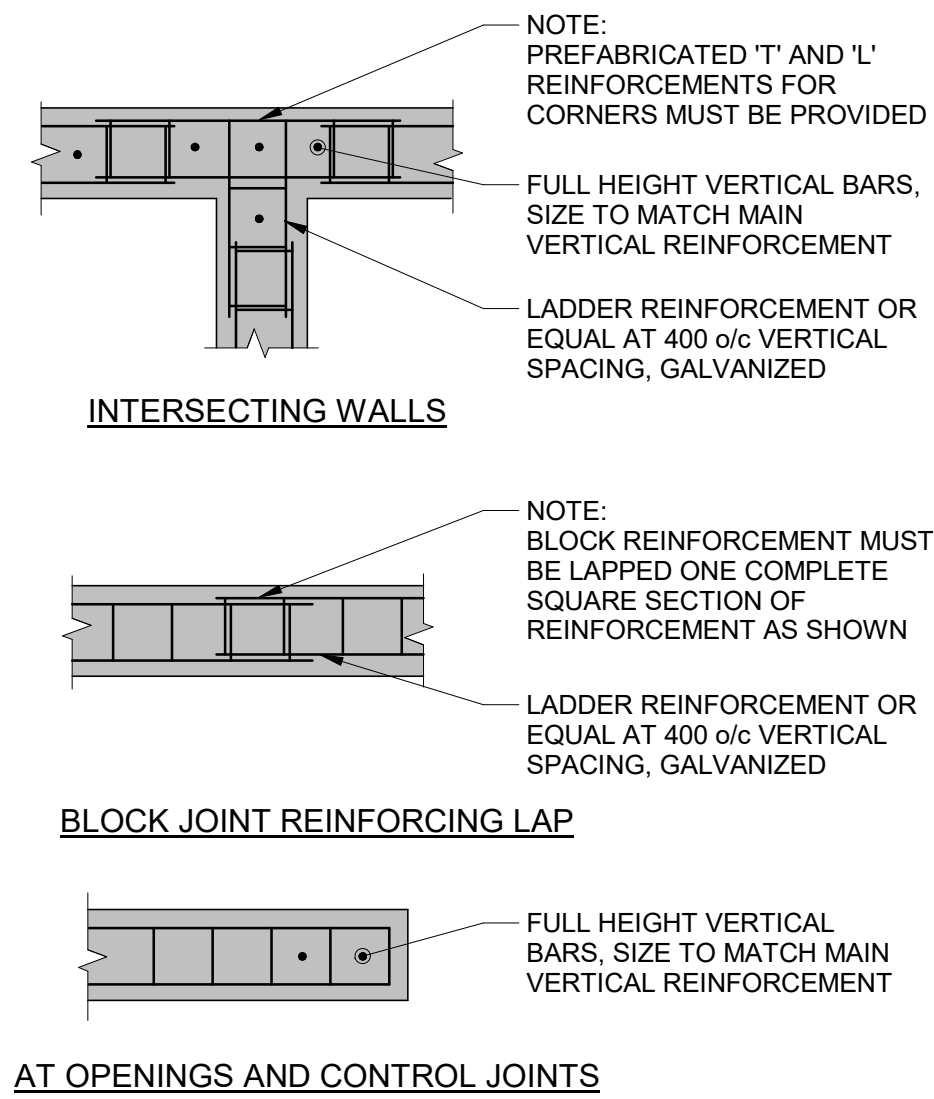
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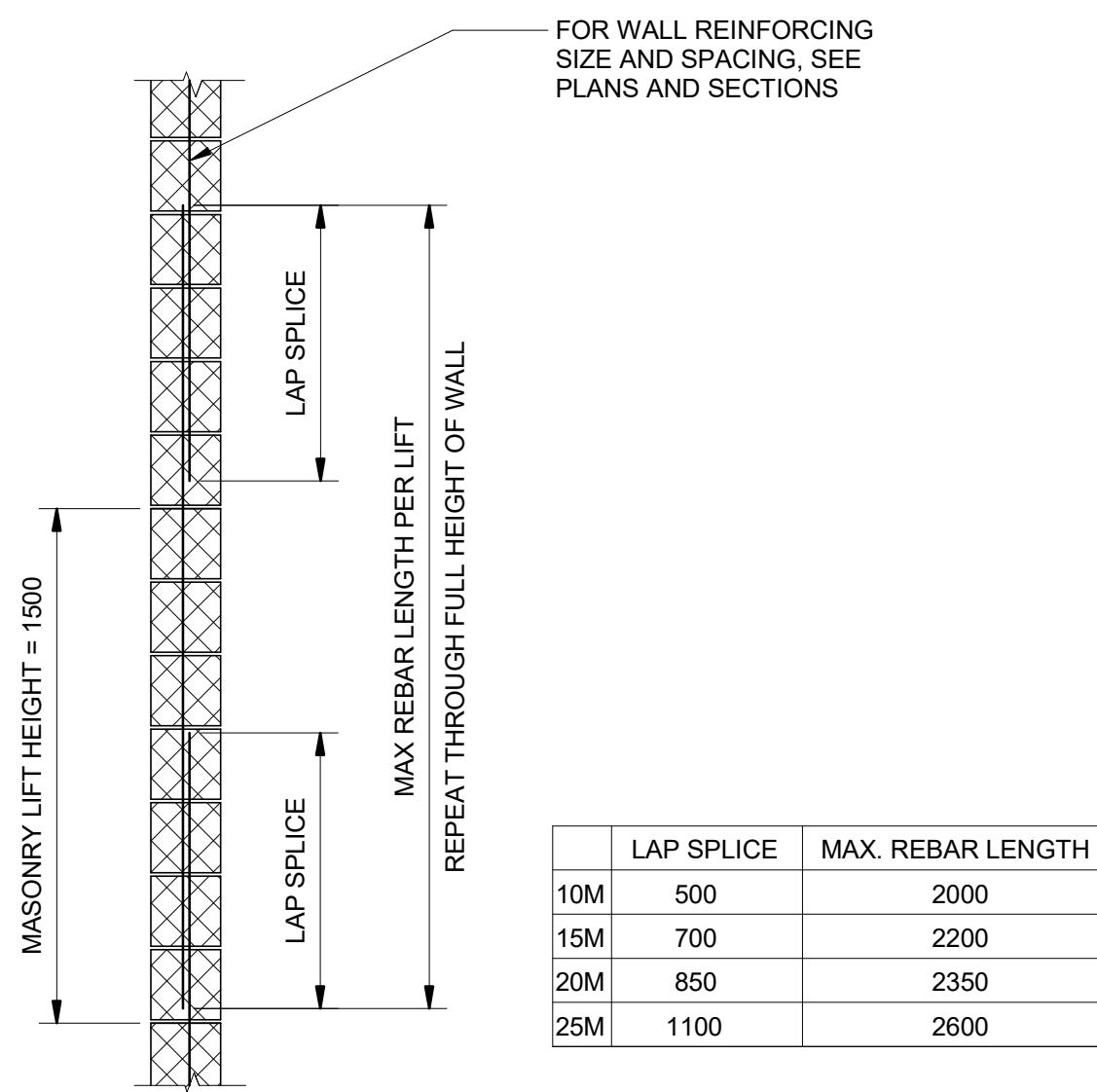
1 SLAB ON GRADE THICKG. FOR INT. BLK. WALLS
SCALE: 1 : 20



2 TYPICAL BLOCK WALL REINFORCEMENT
SCALE: NTS

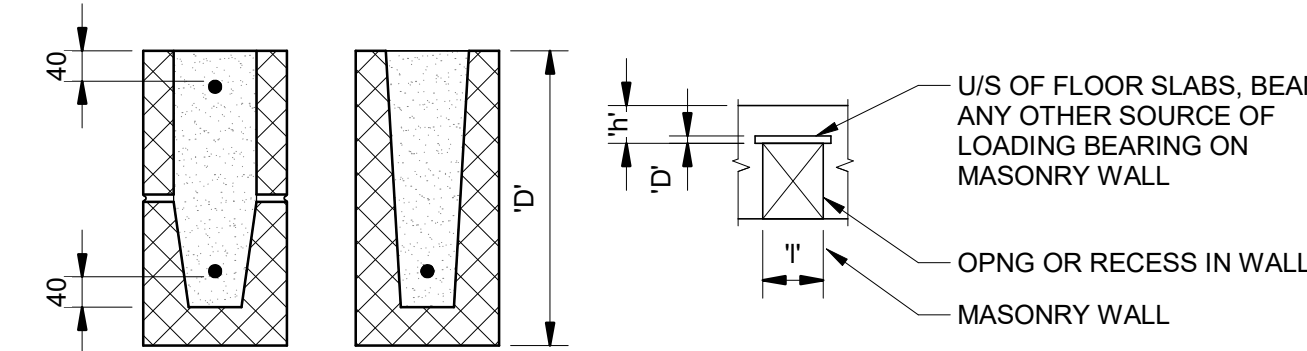


3 TYPICAL BLOCK WALL REBAR LAP
SCALE: NTS

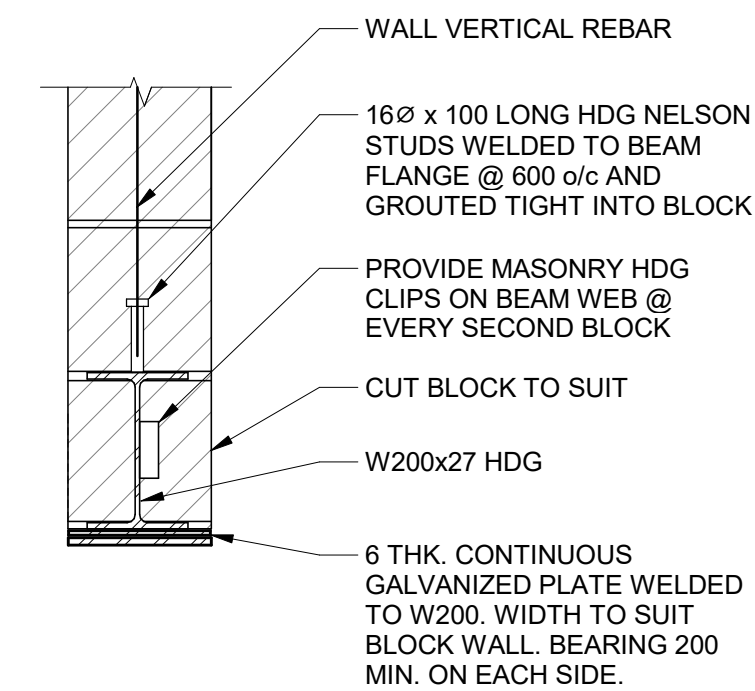


BLOCK LINTEL SCHEDULE				
WALL THK	UP TO 1200 mm		1200 mm TO 2030 mm	
	REINF	D	REINF	D
140 mm	1 -10M T&B	390 mm	1 -10M T&B	390 mm
190 mm	1 -10M T&B	390 mm	1 -10M T&B	390 mm
240 mm	1 -10M T&B	390 mm	2 -10M T&B	390 mm
290 mm	1 -10M T&B	390 mm	2 -10M T&B	390 mm

1. MIN BEARING FOR BLOCK LINTEL SHALL BE 200 UNO.
2. FILL VOIDS OR LINTEL BLOCKS W/ 20 MPa CONC. MORTAR IS NOT ACCEPTABLE.
3. WHEN 'H' IS SMALLER THAN 'I', ABOVE LINTEL SCHEDULE DOES NOT APPLY. REFER TO PLAN OR THE STEEL LINTEL SCHEDULE.



4 BLOCK LINTEL SCHEDULE
SCALE: NTS

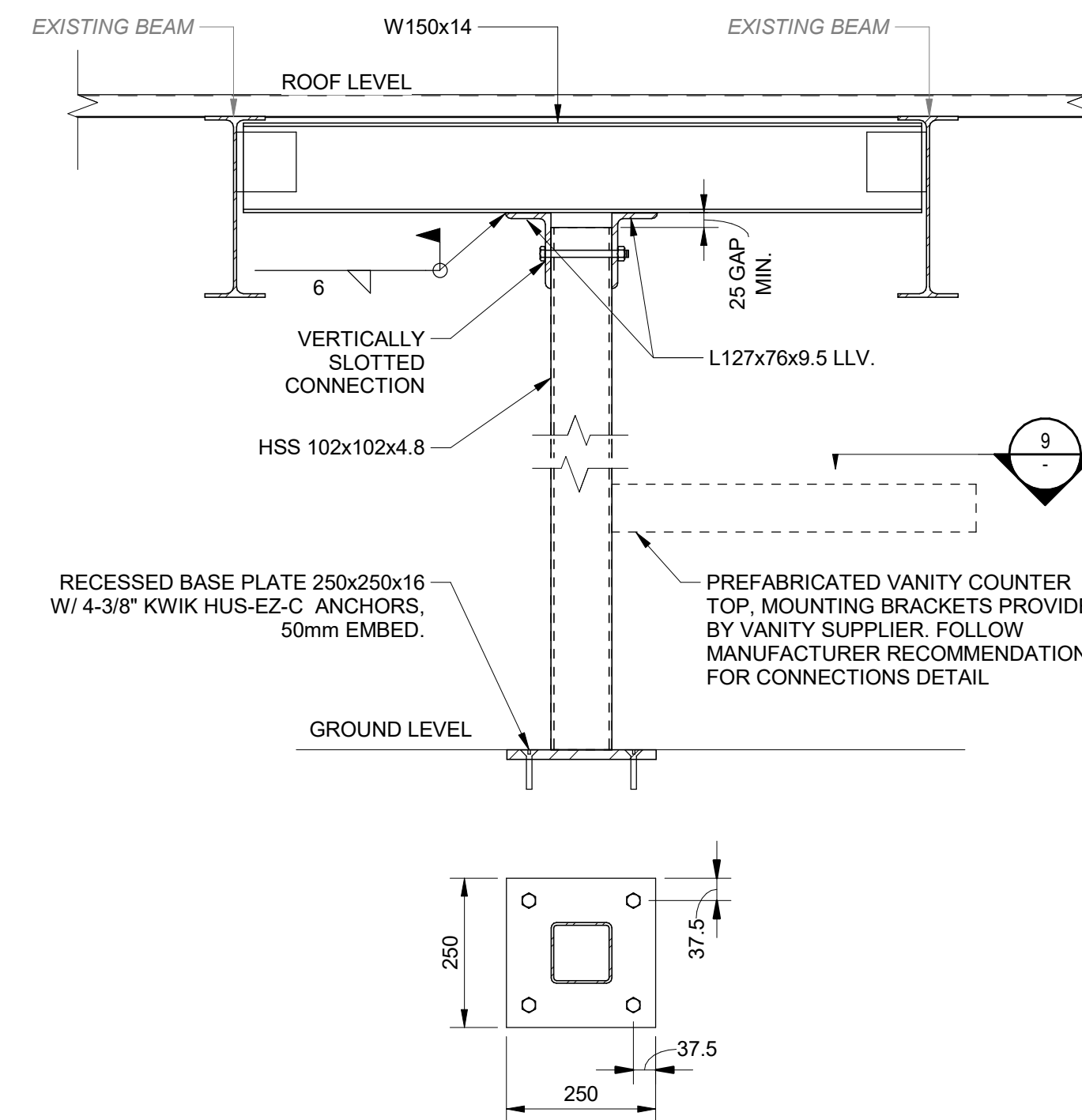


STEEL LINTEL FOR OPENINGS
BETWEEN 2100 & 3600

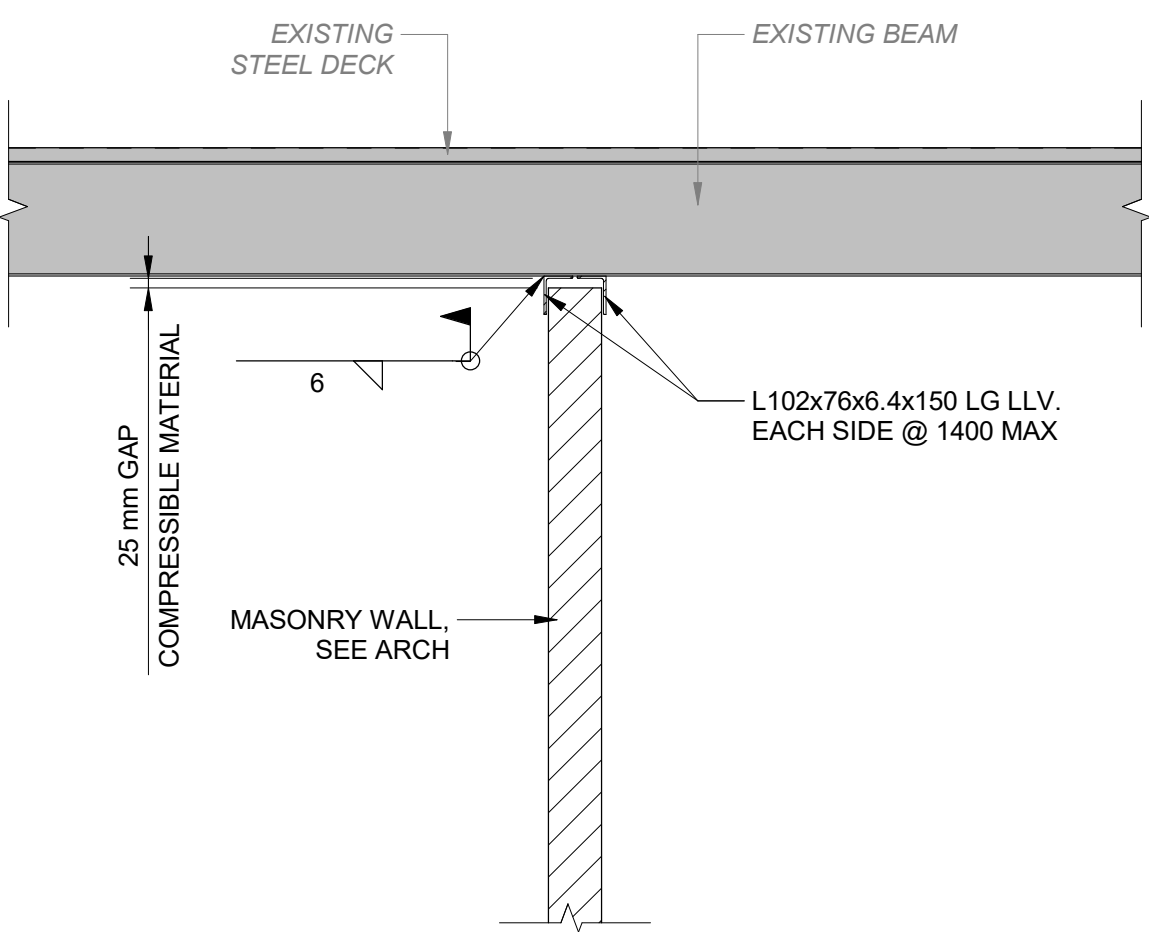
7 STEEL LINTEL SCHEDULE AND DETAIL
SCALE: NTS

STEEL LINTEL SCHEDULE		
CLEAR SPAN	ARRANGEMENT	
UP TO 3600	W200x27 + PL 6 THK. IN CENTER OF WALL	SEE DETAIL

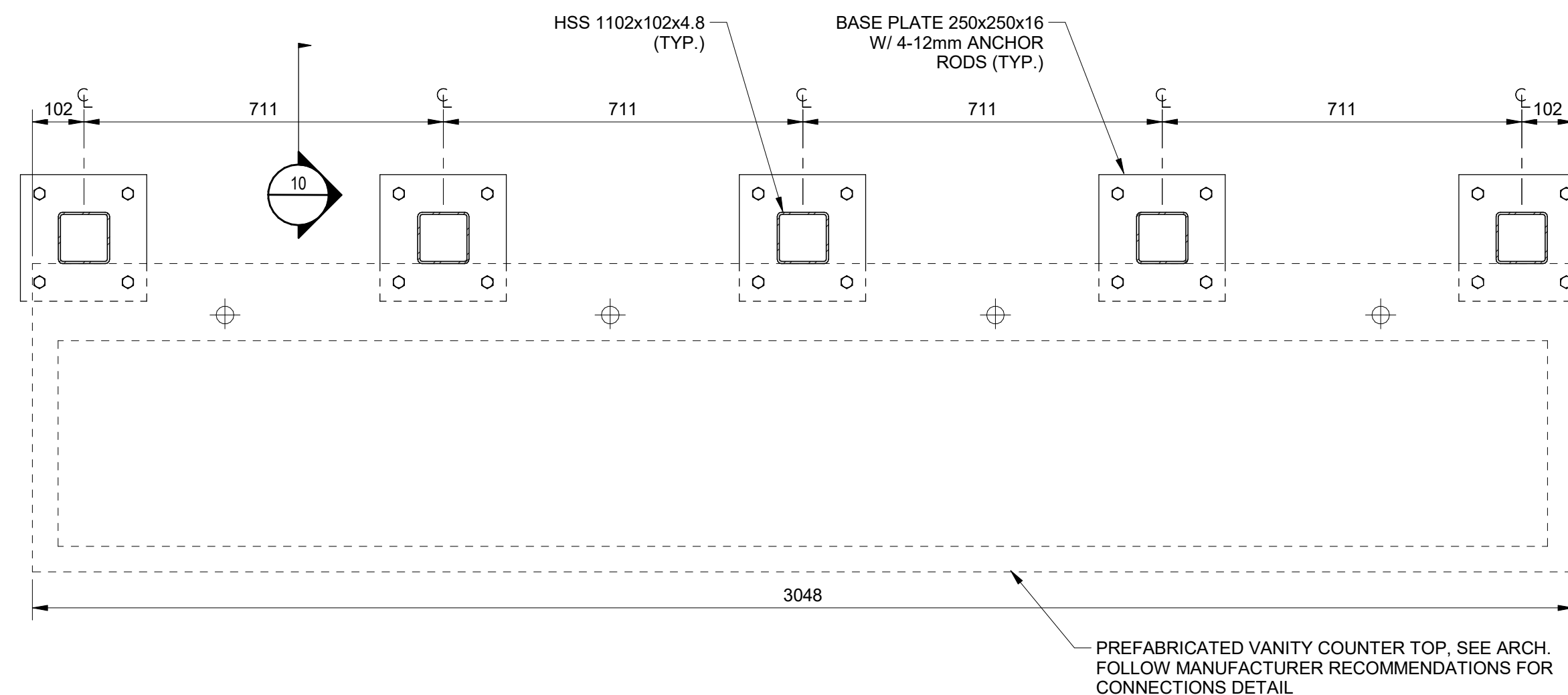
NOTE:
MINIMUM BEARING FOR STEEL ANGLES SHALL BE 300mm, UNO.



5 LATERAL SUPPORT OF BLOCK WALL PARALLEL TO BEAMS
SCALE: 1 : 20



6 LATERAL SUPPORT OF BLOCK WALL PARALLEL TO BEAMS
SCALE: 1 : 20



8 LATERAL SUPPORT OF BLOCK WALL PERPENDICULAR TO BEAM
SCALE: 1 : 20

9 VANITY CONNECTION PLAN
SCALE: 1 : 10

10 VANITY CONNECTION DETAILS
SCALE: 1 : 10

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PROJECT No:	Z0023510	DRAWING No:	S201
SHEET No:	2 of 2		