

## GENERAL NOTES

- CHECK ALL DIMENSIONS ON THESE DRAWINGS WITH ALL OTHER DRAWINGS, INCLUDING BUT NOT LIMITED TO DRAWINGS PREPARED ARCHITECTURAL, MECHANICAL OR ELECTRICAL CONSULTANTS. REPORT ANY INCONSISTENCIES TO THE ARCHITECT OR ENGINEER PRIOR TO COMMENCING WITH THE WORK. DO NOT SCALE THE DRAWINGS.
- THE DESIGN LIVE LOADS ARE INDICATED ON THE DRAWINGS. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
- THE COMPLETED STRUCTURE IS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING, SHORING AND ANY OTHER TEMPORARY OR PERMANENT MEASURES AS REQUIRED DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORT OF EXISTING OR ADJACENT STRUCTURES AS REQUIRED. ALL BRACING AND SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- CONSTRUCTION FEATURES NOT FULLY SHOWN ARE COMPARABLE TO SIMILAR CONDITION DETAILS.
- REFER TO OTHER CONSULTANTS DRAWINGS FOR DETAILS OF OPENINGS, FITS, CHAMFERS, DEPRESSIONS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
- ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE LATEST ONTARIO BUILDING CODE, LATEST APPLICABLE REGULATIONS, AND GOOD CONSTRUCTION PRACTICES.
- THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS.
- CLARIFY ANY QUERIES WITH THE ENGINEER REGARDING THE INTERPRETATION OF THE DRAWINGS, PRIOR TO THE COMMENCEMENT OF ANY WORK.

## SUBMITTALS

- SUBMIT FOR REVIEW BY THE CONSULTANT, DETAILED SHOP DRAWINGS FOR ALL STRUCTURAL WORK INCLUDING, BUT NOT LIMITED TO\* CONCRETE FORMWORK, REINFORCING STEEL, STRUCTURAL STEEL AND TEMPORARY SHORING.
- THE SCALE OF THE DRAWINGS SHALL BE SUCH THAT THE DETAILS OF THE STRUCTURAL WORK ARE CLEARLY SHOWN, AND IN NO CASE SMALLER THAN 1:50 (1/4"=1'-0").
- THE STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED, IN WHOLE OR IN PART, FOR USE AS SHOP DRAWINGS.
- EACH DRAWING SUBMITTED FOR CONCRETE FORMWORK, STRUCTURAL STEEL AND TEMPORARY SHORING SHALL BEAR THE SEAL AND SIGNATURE OF A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
- CONTRACTOR SHALL ALLOW FOR A 5 WORKING DAY TURN AROUND TIME FOR STRUCTURAL CONSULTANT TO REVIEW THE SHOP DRAWINGS.

## CALCULATIONS

- SUBMIT CALCULATIONS, BEARING THE SEAL AND SIGNATURE OF PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO, FOR STRUCTURAL WORK, IF REQUESTED BY THE CONSULTANT.

## MASONRY NOTES

- ALL STRUCTURAL ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD S304.1. ALL MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH CSA STANDARD A371. ALL MASONRY CONNECTORS, REINFORCING AND TYING SHALL BE IN ACCORDANCE WITH CSA A370. ALL MORTAR AND GROUT SHALL BE IN ACCORDANCE WITH A179.
- ALL CONCRETE BLOCKS SHALL BE NORMAL WEIGHT TYPE H/15/A/M UNLESS OTHERWISE NOTED. MORTAR SHALL BE TYPE S FOR LOADBEARING AND TYPE N FOR NON-LOADBEARING.
- VERTICAL CONTROL JOINTS SHALL BE PROVIDED AT A MAXIMUM SPACING OF 6000mm. REFER TO ARCHITECTURAL DRAWING FOR DETAILS AND LOCATIONS.
- TRIM ALL OPENINGS WITH 2-15M BARS.
- GROUT SHALL CONSIST OF ON ONE PART PORTLAND CEMENT, THREE PARTS SAND (MAXIMUM AGGREGATE SIZE SHALL BE 10mm) WITH WATER TO PROVIDE A MINIMUM 10MPa COMPRESSIVE STRENGTH AT 28 DAYS. SLUMP SHALL BE 200mm TO 250mm.
- ALL CELLS CONTAINING REINFORCING SHALL BE GROUTED SOLID.
- THE MASONRY SHALL BE CONSTRUCTED EVENLY WITH MAXIMUM LIFTS OF 1200 PER DAY. DO NOT TOOTH AND BOND OR STACK BOND MASONRY. RAKE BACK ENDS OF UNFINISHED WALLS.
- ALL MORTAR JOINTS SHALL BE TOOLED (CONCAVE). A MINIMUM BED JOINT OF 6mm IS REQUIRED FOR THE STARTING COURSE TO A MAXIMUM OF 20mm. THE BED JOINTS SHALL BE 10mm.
- PROVIDE VERTICAL AND HORIZONTAL REINFORCING AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
  - 140 CONCRETE BLOCK – 10M VERTICAL AT 600 O.C. & HEAVY DUTY TRUSS TYPE HORIZONTAL REINFORCING EVERY SECOND COURSE.
  - 190 CONCRETE BLOCK – 15M VERTICAL AT 800 O.C. & HEAVY DUTY TRUSS TYPE HORIZONTAL REINFORCING EVERY SECOND COURSE.
  - 290 CONCRETE BLOCK – 20M VERTICAL AT 600 O.C. & HEAVY DUTY TRUSS TYPE HORIZONTAL REINFORCING EVERY COURSE.
- THE HORIZONTAL REINFORCING AT EXTERIOR WALLS SHALL BE GALVANIZED. DO NOT EXTEND HORIZONTAL REINFORCING THROUGH CONTROL JOINTS UNLESS OTHERWISE NOTED.
- PROVIDE A STEEL LINTEL OVER ALL OPENINGS OR RECESSES INCLUDING OPENINGS FOR MECHANICAL AND ELECTRICAL COMPONENTS. ALL EXTERIOR LINTELS TO BE HOT DIP GALVANIZED.
- BUILD THE MASONRY SOLID AROUND ALL BEAM, LINTEL AND JOIST POCKETS. INSTALL BEARING PLATES AT THE SPECIFIED ELEVATION AND GROUT THE PLATE INTO THE WALL A MINIMUM OF 400mm.
- PROVIDE TEMPORARY BRACING AS REQUIRED TO SUPPORT THE MASONRY WALLS IN CONSTRUCTION. PROTECT THE MASONRY WALLS FROM THE ELEMENTS AT ALL TIMES EXCEPT DURING CONSTRUCTION PROGRESS.

## CONCRETE NOTES

- ALL STRUCTURAL CONCRETE ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD CAN/CSA A23.3. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH CSA STANDARD CAN/CSA A23.1.
- MINIMUM CONCRETE STRENGTH AT 28 DAYS SHALL BE:
  - FOOTINGS 25 MPa TYPE N
  - FOUNDATION WALLS 25 MPa TYPE F1
  - SLAB ON GRADE 25 MPa TYPE N
  - COLUMNS AND PIERS 35 MPa TYPE C1
 SLUMP SHALL BE 75mm ± 25mm. AGGREGATE SHALL BE 20mm MAXIMUM. AIR ENTRAINED TO BE 6% ± 1% WHEN EXPOSED TO EXTERIOR. CONTRACTOR TO SUBMIT CONCRETE MIX DESIGN FOR REVIEW.
- THE DEFORMED REINFORCING STEEL SHALL CONFORM TO CSA STANDARD G30.18M GRADE 300R FOR STIRRUPS AND TIES AND GRADE 400R FOR ALL OTHER REINFORCING. UNLESS OTHERWISE NOTED THE REINFORCING LAP LENGTH SHALL BE 'CLASS B' IN SPLICES. ALL REINFORCING HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH A23.1.
- WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH CSA G30.5. ALL MESH SHALL BE CHAIRED PRIOR TO THE CONCRETE POUR. LIFTING OF THE MESH DURING THE CONCRETE POUR WILL NOT BE PERMITTED. ALL SPLICES SHALL BE A MINIMUM OF TWO CROSS WIRE SPACINGS PLUS 50mm.
- THE REINFORCING COVER FOR CONCRETE SHALL BE:
  - 75mm FOR CONCRETE AGAINST EARTH
  - 40mm FOR FORMED CONCRETE EXPOSED TO EARTH OR WEATHER WHERE THE REINFORCING BAR IS 15M OR SMALLER
  - 50mm FOR FORMED CONCRETE EXPOSED TO EARTH OR WEATHER WHERE THE REINFORCING BAR IS 20M OR LARGER
  - 25mm FOR INTERIOR CONCRETE. ALL CHAIRS, BOLSTERS, SPACERS AND BAR SUPPORTS SHALL BE IN ACCORDANCE WITH A23.1.
- FOOTINGS SHALL BEAR ON NATIVE SILTY CLAY WITH A MINIMUM BEARING RESISTANCE OF:
  - 250 kPa (SLS)
  - 375 kPa (ULS)
 THE CONTRACTOR SHALL VERIFY THE CAPACITY PRIOR TO PLACEMENT OF CONCRETE. REFER TO GEOTECHNICAL REPORT PREPARED BY EXP. DATED JANUARY 17th, 2024.
- THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATION OR STEP DOWN FOOTINGS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10. STEP HEIGHT SHALL NOT EXCEED 600mm.
- KEEP EXCAVATIONS DRY BEFORE CONCRETE IS PLACED. REMOVE ALL LOOSE MATERIAL, SOFT SOIL OR WATER PRIOR TO PLACING CONCRETE. PROVIDE A 75mm MUD SLAB FOR ALL FOOTINGS BELOW THE WATER TABLE.
- ALL FOOTINGS SHALL BE CENTRED ON THE WALL UNLESS OTHERWISE NOTED.
- THE FOOTING DESIGN IS BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. THE FOOTING DESIGN MAY BE ALTERED DURING CONSTRUCTION, IF THE SITE CONDITIONS WARRANT, BUT ONLY WITH THE EXPRESS PERMISSION OF THE ENGINEER.
- PROTECT ALL FOOTINGS, WALLS AND SLABS AGAINST FROST ACTION DURING CONSTRUCTION. ALL EXTERIOR FOOTINGS SHALL FOUNDED BELOW THE FROST LINE, MINIMUM 1200mm BELOW GRADE.
- DO NOT BACKFILL AGAINST WALLS RETAINING EARTH UNTIL THE ELEMENTS PROVIDING LATERAL SUPPORT ARE COMPLETE. PLACE BACKFILL IN A MANNER WHERE THE ELEVATION DIFFERENCE ON EITHER SIDE OF THE WALL IS NO GREATER THAN 450mm. PROVIDE TEMPORARY SHORING AS REQUIRED.
- SLAB-ON-GRADE CONSTRUCTION SHALL BE CAPABLE OF SUPPORTING 25kN/m<sup>2</sup> WITHOUT RELATIVE SETTLEMENT.
- CONSTRUCT CONCRETE WALLS WITHOUT CONTROL JOINTS, UNLESS OTHERWISE NOTED. PROVIDE CHASES AND BEAMS POCKETS IN THE INTERIOR FACE OF THE WALL AS REQUIRED.
- PROVIDE DOWELS TO WALLS AND COLUMNS TO SUIT THE REINFORCING IN THE WALL OR COLUMN ABOVE.
- ALL ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE HILTI HIT-HY200 (OR APPROVED EQUAL) PROCEDURES.

## STRUCTURAL STEEL NOTES

- ALL STRUCTURAL STEEL ELEMENTS, INCLUDING DESIGN OF ELEMENTS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH CAN/CSA S16.
- ALL STRUCTURAL STEEL SHALL CONFORM TO CSA G40.21 (300W) EXCEPT W SECTIONS AND PLATES G40.21 (350W), HSS MEMBERS G40.21 (350W) CLASS C OR ASTM A500 GRADE C, ANCHOR BOLTS ASTM A307, COLD FORMED SECTIONS ASTM A570M GRADE 350W. UNLESS OTHERWISE NOTED, ALL SECTIONS SHALL BE PRIME PAINTED WITH THE SURFACE PREPARATION AND PAINTING PROCEDURES IN ACCORDANCE WITH CAN/CSSB 85.10.
- OPEN WEB STEEL JOISTS ARE TO BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER TO CARRY THE LOADS AND SPANS INDICATED ON THE DRAWINGS. DETAILS AND DESIGN INCLUDING BRIDGING REQUIREMENTS ARE TO CONFORM TO CSA STANDARDS S16-09. PROVIDE 100mm DEEP JOIST SHOES DESIGNED FOR A MAXIMUM BEARING PRESSURE OF 1100 kPa ON MASONRY WALLS.
- ALL WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH CAN/CSA W59. THE STEEL FABRICATOR SHALL BE FULLY QUALIFIED UNDER THE REQUIREMENTS BY THE CANADIAN WELDING BUREAU IN CONFORMANCE WITH CAN/CSA W47.1.
- DESIGN ALL MOMENT AND SHEAR CONNECTIONS FOR THE FULL CAPACITY OF THE SMALLER MEMBER IN THE CONNECTION UNLESS OTHERWISE NOTED.
- PROVIDE MINIMUM BEARING LENGTH OF STEEL MEMBERS AS FOLLOWS:
  - ON MASONRY – 150mm
  - ON STEEL – 90mm
- THE BASE PLATE AND BEARING PLATE GROUT SHALL BE OF THE CEMENTITIOUS NON-SHRINK TYPE.
- DECK SHALL BE EITHER 38mm OR 76mm DEEP IN ACCORDANCE WITH CSA S136 AND SHALL BE FABRICATED FROM ASTM A653 SS GRADE 230 GALVANIZED STEEL WITH A ZF75 GALVANNEAL OR Z275 GALVANIZED ZINC COATING. THE MINIMUM NOMINAL STEEL CORE THICKNESS SHALL BE 0.76mm. STEEL DECK SHALL BE FASTENED TO THE SUPPORT STRUCTURE WITH 20mm SPOT WELDS AT NOT MORE THAN 300mm c/c (150mm AT PERIMETER). CLINCH SIDELAPS AT 600mm c/c. ALL WELDS TO BE TOUCHED UP WITH PRIMER. MECHANICAL FASTENERS MAY ONLY BE USED WITH THE PERMISSION OF THE ENGINEER.
- FULLY WELD THE BASE PLATE TO THE COLUMN TO DEVELOP THE ANCHOR BOLTS. PROVIDE CAP PLATES ON ALL COLUMNS. PROVIDE 6mm CAP PLATES ON ALL COLUMNS.
- PROVIDE MINIMUM 175x10x175 BEARING PLATES FOR ALL STRUCTURAL STEEL c/c. 2-150 ANCHORS UNLESS OTHERWISE NOTED.
- ALL BOLTS SHALL BE TIGHTENED WITH A SUITABLE TORQUE WRENCH IN ACCORDANCE WITH CSA S16.
- ALL STEEL EXPOSED TO THE EXTERIOR TO BE HOT DIP GALVANIZED.
- ERECT STRUCTURAL STEEL IN ACCORDANCE WITH CSA S16 AND IN CONFORMANCE WITH THE APPROVED SHOP DRAWINGS.

## LIGHT GAUGE STEEL FRAMING NOTES

### GENERAL

- THESE NOTES APPLY TO THE STEEL STUD FRAMING COMPONENT OF THE EXTERIOR WALL SYSTEM ONLY.
- THE DESIGN WIND LOADING IS 1.2kN/m<sup>2</sup> (25 PSF) DETERMINED BY O.B.C. REQUIREMENTS AND CAN-S136. DEFLECTION IS LIMITED TO L/360.
- THE DESIGN OF FRAMING SYSTEM IS BASED ON PUBLISHED STUD SECTION PROPERTIES BY BAILEY METAL PRODUCTS LIMITED.

### MATERIAL

- THE MINIMUM BARE METAL THICKNESS FOR ALL METAL WALL COMPONENTS, EXCLUDING COATINGS ARE NOTED ON THE DRAWINGS.
- STEEL MEETS THE REQUIREMENTS OF A.S.T.M. A653/A653M SS GRADE 33 (230) FOR 1.22mm MATERIAL AND THINNER, AND SS GRADE 50 (340) CLASS 1 FOR 1.52mm MATERIAL AND THICKER.
- GALVANIZING TO BE HOT-DIP PROCESS, G90 (Z275).

### EXECUTION

- METHOD OF CONSTRUCTION SHALL BE BY PREFABRICATED PANELS ASSEMBLED ON SITE.
- CONNECTIONS SHALL BE ACCOMPLISHED BY SELF DRILLING SCREWS AND OTHER FASTENERS AS SHOWN ON THESE DRAWINGS. PENETRATION BEYOND JOINED MATERIALS SHALL BE NOT LESS THAN THREE EXPOSED THREADS. ALL CONNECTORS USED IN ASSEMBLIES SHALL BE OF CORROSION RESISTANT MATERIAL COMPATIBLE WITH GALVANIZED COATINGS WITH A MINIMUM COATING THICKNESS OF 0.039mm ZINC OF CADMIUM PLATES. NO BLACK CONNECTORS WILL BE ACCEPTED. SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER.
- SCREWS COVERED BY SHEATHING MATERIALS SHALL HAVE LOW PROFILE HEADS.
- WIRE TYING IS NOT PERMITTED IN STRUCTURAL APPLICATIONS.
- CUTTING OF STEEL FRAMING MEMBERS SHALL BE BY SAW OR SHEAR. NO TORCH OR MANUAL CUTTING IS PERMITTED.
- SPLICING OF STUDS OR TRACK IS NOT PERMITTED EXCEPT AS NOTED ON DRAWINGS.
- BRIDGING SHALL BE OF SIZE SPACING AND TYPE SHOWN ON THE DRAWINGS AND SHALL BE INSTALLED SO AS TO PROVIDE RESISTANCE TO MINOR AXIS BENDING AND ROTATION OF STUDS. PROVIDE BRIDGING AT 1200mm c/c MAXIMUM.
- TEMPORARY BRACING SHALL BE PROVIDED AND LEFT IN PLACE UNTIL WORK IS PERMANENTLY STABILIZED.
- STUDS SHALL SEAT INTO TOP AND BOTTOM TRACKS WITH THE GAP BETWEEN THE END OF THE STUD AND WEB OF THE TRACK NOT TO EXCEED 3mm.

- VERTICAL ALIGNMENT (PLUMBNESS) OF STUDS SHALL BE WITHIN 1/1000 OF THE SPAN.
- HORIZONTAL ALIGNMENT (LEVELNESS) OF WALLS SHALL BE WITHIN 1/1000 OF THEIR RESPECTIVE LENGTHS.
- SPACING OF STUDS SHALL BE WITHIN 3mm FROM DESIGN SPACING PROVIDED THAT CUMULATIVE ERROR DOES NOT EXCEED THE REQUIREMENTS OF THE FINISHING MATERIALS.

## LOADING SUMMARY

### DESIGN STANDARDS

- ONTARIO BUILDING CODE, 2012, PART 4: STRUCTURAL DESIGN
- CAN/CSA-A23.3-14, DESIGN OF CONCRETE STRUCTURES
- CAN/CSA-A23.4-16, DESIGN OF PRECAST CONCRETE STRUCTURES
- CAN/CSA-S304.1-14, MASONRY DESIGN FOR BUILDINGS
- CAN/CSA-S16-14, LIMIT STATES DESIGN OF STEEL STRUCTURES
- CAN/CSA-S136-16, DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS

### SNOW, ICE AND RAIN LOADS

- APPLIED PER OBC, PART 4, SECTION 4.1.6
- IMPORTANCE FACTOR, I<sub>s</sub> 1.0 (SLS) 1.0 (ULS)
  - GROUND SNOW LOAD, S<sub>s</sub> 1.1 kPa (22.97 PSF)
  - ASSOCIATED RAIN LOAD, S<sub>r</sub> 0.4 kPa (8.35 PSF)
  - WIND EXPOSURE FACTOR, C<sub>w</sub> 1.0
  - ROOF SNOW LOAD, S<sub>r</sub> 1.28 kPa (26.73 PSF)
  - DRIFT LOADS PER CLAUSE 4.1.6.2.8
  - SLOPE FACTORS PER CLAUSE 4.1.6.2.(5) TO (7)

### WIND LOADS

- APPLIED PER OBC, PART 4, SECTION 4.1.7
- IMPORTANCE FACTOR, I<sub>w</sub> 1.0 (SLS) 1.0 (ULS)
  - REFERENCE VELOCITY PRESSURE FOR STRUCTURAL MEMBERS 0.48 kPa (1/50 YEAR PROBABILITY)
  - REFERENCE VELOCITY PRESSURE FOR CLADDING & NON-STRUCTURAL MEMBERS 0.36 kPa (1/10 YEAR PROBABILITY)
  - GUST FACTORS C<sub>g</sub>:
    - 2.0 FOR WHOLE & MAIN STRUCTURAL MEMBERS
    - 2.5 FOR SMALL ELEMENTS INCLUDING CLADDING
    - 2.0 FOR INTERNAL PRESSURES
  - BUILDING INTERNAL PRESSURE CATEGORY 2 PER NBC 2010 STRUCTURAL COMMENTARY (PART B), COMMENTARY B.

### SEISMIC LOADS

- APPLIED PER OBC, PART 4, SECTION 4.1.8.
- IMPORTANCE FACTOR, I<sub>e</sub> 1.0 (ULS)
  - S<sub>a</sub>(0.2) 0.26
  - S<sub>a</sub>(0.5) 0.128
  - S<sub>a</sub>(1.0) 0.061
  - S<sub>a</sub>(2.0) 0.028
  - S<sub>a</sub>(5.0) 0.0068
  - S<sub>a</sub>(10.0) 0.0027
  - PGA 0.168
  - PGA ref 0.156
  - SOIL CLASS C
  - F<sub>a</sub> 1.0

### SFRS TYPE = CONVENTIONAL CONSTRUCTION (SHEAR WALLS)

- I<sub>e</sub> = 1.0
- R<sub>d</sub> = 1.5
- R<sub>o</sub> = 1.5
- H<sub>b</sub> = 9.2m
- T<sub>o</sub> = 0.264
- S(T<sub>o</sub>) = 0.232
- M<sub>v</sub> = 1.0

- BASE SHEAR & WEIGHT
- EAST-WEST DIRECTION V = 1,200 kN
  - NORTH-SOUTH DIRECTION V = 1,350 kN
  - (SEISMIC EQUIVALENT STATIC FORCE PROCEDURE)

### SEISMIC SWAY BRACING

ARTICLE 4.1.8.18(2) OF THE ONTARIO BUILDING CODE NOTES THAT IF THE PRODUCT OF I<sub>e</sub> \* F<sub>a</sub> \* S<sub>a</sub>(0.2) IS LESS THAN 0.35, THE REQUIREMENTS NOTED ABOVE NEED NOT APPLY. THESE VALUES ARE EXPLORED BELOW. THIS EXEMPTION IS NOT APPLICABLE TO POST-DISASTER BUILDINGS.

BASED ON THE ABOVE NOTED VALUES, THE PRODUCT OF I<sub>e</sub> \* F<sub>a</sub> \* S<sub>a</sub>(0.2) = 1.0 \* 1.0 \* 0.26 = 0.26. GIVEN THIS IS LESS THAN THE THRESHOLD OF 0.35, THE APPLICATION OF THE LATERAL FORCE (V<sub>o</sub>) TO ALL ELEMENTS AND COMPONENTS AND SWAY BRACING IS NOT REQUIRED.

## DESIGN LOADS

### ROOF LOADS:

- (MAIN ROOF) DEAD:
- 2 PLY MOD BIT ROOF 0.27 kPa
  - 200 RIGID INSULATION 0.15 kPa
  - 12mm DECK OVERLAY BOARD 0.10 kPa
  - 38mm STEEL DECK 0.15 kPa
  - BEAM/OWSJ 0.15 kPa
  - M & E 0.25 kPa
  - CEILING 0.20 kPa
- TOTAL 1.27 kPa

SNOW: LL = 1.28 kPa + SPU

- (CANOPY) DEAD:
- 2 PLY MOD BIT ROOF 0.27 kPa
  - 175 TAPERED RIGID INSULATION 0.15 kPa
  - 12mm DECK OVERLAY BOARD 0.10 kPa
  - 38mm STEEL DECK 0.15 kPa
  - BEAM/OWSJ 0.15 kPa
  - M & E 0.25 kPa
  - CEILING 0.20 kPa
- TOTAL 1.27 kPa

SNOW: LL = 1.28 kPa + SPU

### FLOOR LOADS:

- (S1) DEAD:
- FLOORING 0.20 kPa
  - 50mm CONCRETE TOPPING 1.18 kPa
  - 250mm HOLLOWCORE 3.54 kPa
  - FRAMING 0.15 kPa
  - M & E 0.25 kPa
  - CEILING 0.20 kPa
  - PARTITIONS 1.00 kPa
- TOTAL 6.52 kPa

- (S2) DEAD:
- FLOORING 0.20 kPa
  - 200mm HOLLOWCORE SOLID SLAB 4.70 kPa
  - FRAMING 0.15 kPa
  - M & E 0.25 kPa
  - CEILING 0.20 kPa
  - PARTITIONS 1.00 kPa
- TOTAL 6.50 kPa

- (S3) DEAD:
- FLOORING 0.20 kPa
  - 50mm CONCRETE TOPPING 1.18 kPa
  - 250mm HOLLOWCORE SOLID SLAB 5.88 kPa
  - FRAMING 0.15 kPa
  - M & E 0.25 kPa
  - CEILING 0.20 kPa
  - PARTITIONS 1.00 kPa
- TOTAL 8.86 kPa

### LIVE LOADS

- APPLIED PER OBC, PART 4, TABLE 4.1.5.3.
- TERRACE 4.8 kPa (100 PSF)
  - COMMERCIAL 2.4 kPa (50 PSF)
  - CORRIDORS 4.8 kPa (100 PSF)
  - WASHROOMS 2.4 kPa (50 PSF)
  - STAIRS AND EXITS 4.8 kPa (100 PSF)
  - (REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATIONS)

## PRECAST SLAB LEGEND

S1	250mm HOLLOWCORE PRECAST CONCRETE SLAB + 50mm CONCRETE TOPPING
S2	200mm SOLID PRECAST CONCRETE STAIR
S3	250mm SOLID PRECAST CONCRETE STAIR + 50mm CONCRETE TOPPING

## DECK LEGEND

D1	38 STEEL DECK (MIN. 18 GAUGE)
D2	38 STEEL DECK (MIN. 20 GAUGE) + 60 CONCRETE TOPPING w/ 1.8kg/m <sup>2</sup> MACRO FIBRES

## COLUMN SCHEDULE

TYPE	SIZE
'C1'	HSS152x152x6.4
'C2'	HSS152x152x1.3

## FOOTING SCHEDULE

TYPE	SIZE	REINFORCING	U/S FOOTING ELEVATION
'F1'	300x750	2-15M CONT. ALONG BOTTOM	SEE PLAN
'F2'	300x1000	3-15M CONT. ALONG BOTTOM	SEE PLAN
'F3'	300x1066x1066	4-20M EACH WAY ALONG BOTTOM	SEE PLAN
'F4'	400x1500x1500	7-20M EACH WAY ALONG BOTTOM	SEE PLAN

## FOUNDATION SCHEDULE

TYPE	SIZE	REINFORCING
'FW1'	200 POURED CONCRETE WALL	15M @300 O.C. EACH WAY INSIDE FACE
'FW2'	250 POURED CONCRETE WALL	15M @300 O.C. EACH WAY INSIDE FACE
'FW3'	350 POURED CONCRETE WALL	15M @300 O.C. EACH WAY EACH FACE
'FW4'	400 POURED CONCRETE WALL	15M @300 O.C. EACH WAY EACH FACE
'FW5'	450 POURED CONCRETE WALL	15M @300 O.C. EACH WAY EACH FACE
'FW6'	500 POURED CONCRETE WALL	15M @300 O.C. EACH WAY EACH FACE

## PIER SCHEDULE

TYPE	SIZE	REINFORCING	T.O. PIER ELEVATION
'P1'	550x550	4-25M VERTS w/ 10M TIES @300 O.C.	-300
'P2'	500#	4-25M VERTS w/ 10M TIES @300 O.C.	-300

## BLOCK WALL SCHEDULE

TYPE	SIZE
'BW1'	140 CONCRETE BLOCK
'BW2'	190 CONCRETE BLOCK
'BW3'	240 CONCRETE BLOCK
'BW4'	290 CONCRETE BLOCK
'BWS'	190 CONCRETE BLOCK REINFORCED w/ 25M @800 O.C. GROUTED SOLID

## KEI SYMBOLS LEGEND

- KEI - WALL TAG
- KEI - CONSTRUCTION NOTE
- KEI - REVISION MARKER
- KEI - DOOR MARKER
- KEI - WINDOW MARKER
- KEI - FRAMING MEMBER TAG
- KEI - T.O.S. BEAM ELEV. TAG

DRAWING LIST	
DRAWING NO.	DRAWING NAME:
S0.0	COVER PAGE & GENERAL NOTES
S1.0	FOUNDATION PLANS
S2.0	FOUNDATION DETAILS
S2.1	FOUNDATION SECTIONS
S3.0	GROUND FLOOR FRAMING PLAN
S3.1	SECOND FLOOR FRAMING PLAN
S3.2	ROOF FRAMING PLAN
S3.3	ELEVATOR PENTHOUSE FRAMING & ROOF PLAN
S4.0	TYPICAL FRAMING DETAILS
S4.1	TYPICAL FRAMING DETAILS
S4.2	TYPICAL FRAMING DETAILS



No.	DATE	REVISION
3	26/02/20	ISSUED FOR TENDER
2	25/12/10	REVISED FOR PERMIT
1	25/03/24	ISSUED FOR PERMIT

## REVISIONS

**KEI KALOS ENGINEERING**

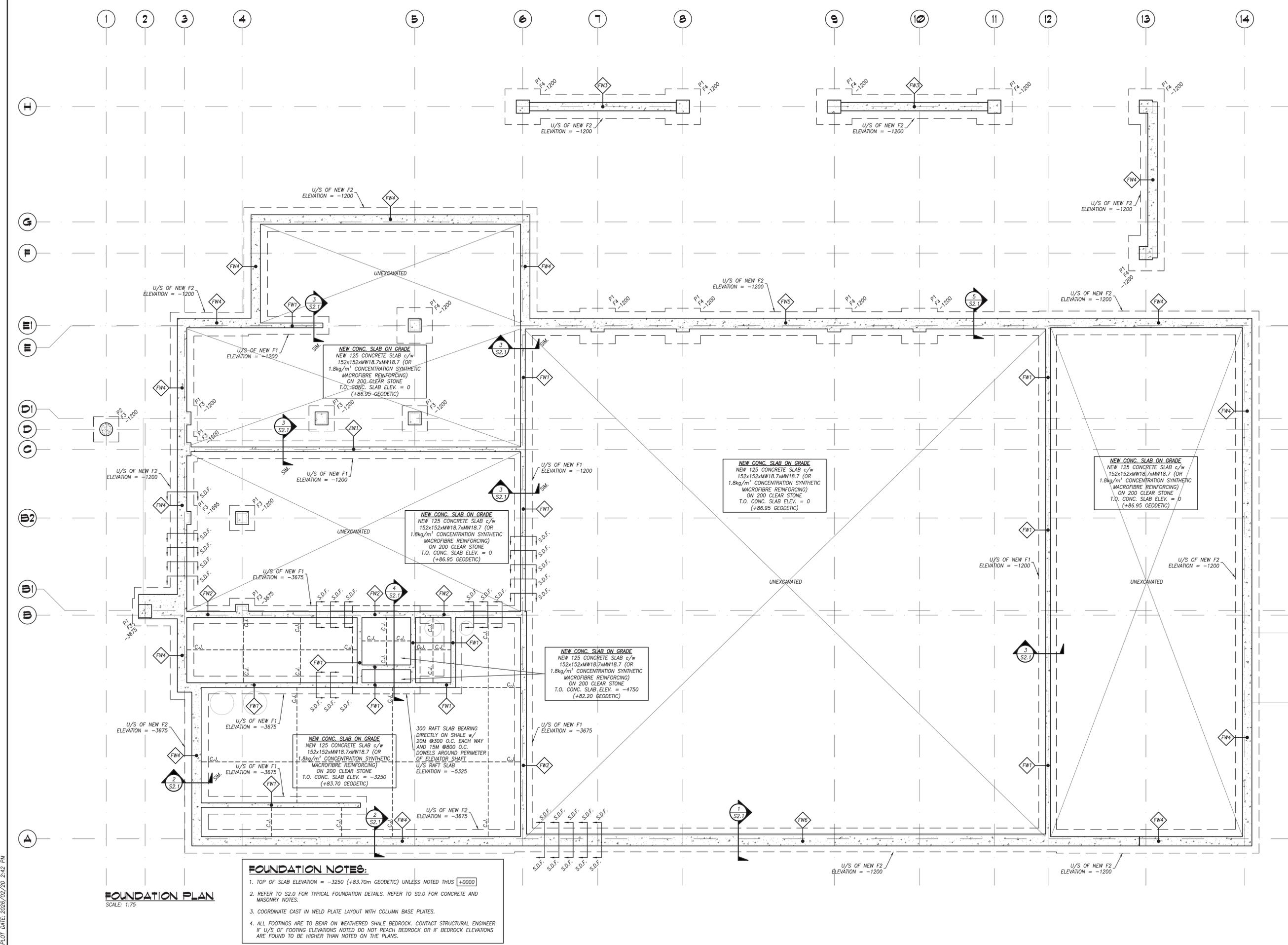
300 YORK BLVD HAMILTON, ONTARIO L8R 3K6  
905-333-9119 www.kaloseng.co

## NEW CROATIAN CULTURAL CLUB

615 BARTON STREET STONEY CREEK ONTARIO

## COVER PAGE & GENERAL NOTES

DATE FEBRUARY 2026	DRAWN BY T.M.	DRAWING No. S0.0
PROJECT No. 21279	CHECKED BY R.H. & J.P.C.	



**KEI SYMBOLS LEGEND**

KEI - WALL TAG	W1
KEI - CONSTRUCTION NOTE	N1
KEI - REVISION MARKER	Δ
KEI - DOOR MARKER	D101
KEI - WINDOW MARKER	W201
KEI - FRAMING MEMBER TAG	RD1
KEI - T.O.S. BEAM ELEV. TAG	+000



No.	DATE	REVISION
4	26/02/20	ISSUED FOR TENDER
3	25/12/10	REVISED FOR PERMIT
2	25/11/14	REVISED FOR PERMIT
1	25/03/24	ISSUED FOR PERMIT

**REVISIONS**



**NEW CROATIAN CULTURAL CLUB**

615 BARTON STREET  
STONEY CREEK ONTARIO

**FOUNDATION PLAN**

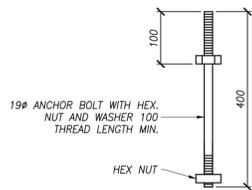
DATE <b>FEBRUARY 2026</b>	DRAWN BY <b>T.M.</b>	DRAWING No. <b>S1.0</b>
PROJECT No. <b>21279</b>	CHECKED BY <b>R.H. &amp; J.P.C.</b>	

**FOUNDATION NOTES:**

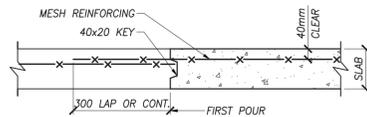
- TOP OF SLAB ELEVATION = -3250 (+83.70m GEODETIC) UNLESS NOTED THUS +0000
- REFER TO S2.0 FOR TYPICAL FOUNDATION DETAILS. REFER TO S0.0 FOR CONCRETE AND MASONRY NOTES.
- COORDINATE CAST IN WELD PLATE LAYOUT WITH COLUMN BASE PLATES.
- ALL FOOTINGS ARE TO BEAR ON WEATHERED SHALE BEDROCK. CONTACT STRUCTURAL ENGINEER IF U/S OF FOOTING ELEVATIONS NOTED DO NOT REACH BEDROCK OR IF BEDROCK ELEVATIONS ARE FOUND TO BE HIGHER THAN NOTED ON THE PLANS.

**FOUNDATION PLAN**  
SCALE: 1:75

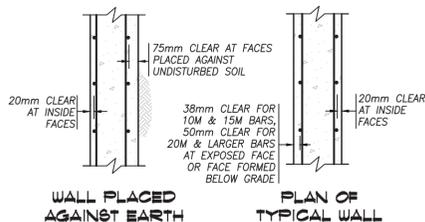
PLOT DATE: 2026/02/20 2:42 PM



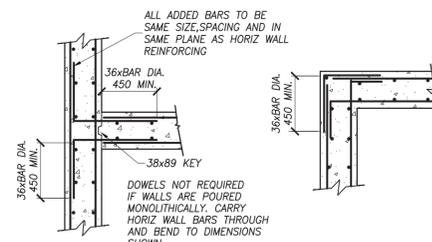
**TYPICAL ANCHOR BOLT**  
SCALE: NTS



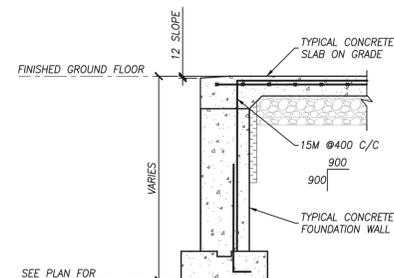
**TYPICAL SLAB-ON-GRADE CONSTRUCTION JOINT**  
SCALE: NTS



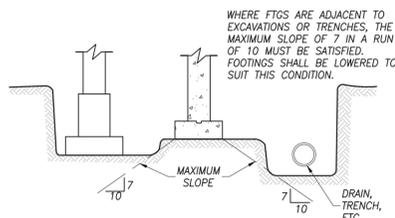
**TYPICAL WALL REINFORCING COVER**  
SCALE: NTS



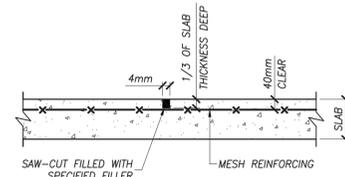
**TYPICAL CORNER DETAILS**  
SCALE: NTS



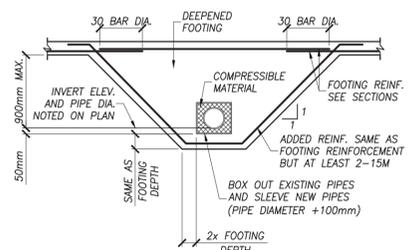
**TYPICAL DOOR THRESHOLD DETAIL**  
SCALE: NTS



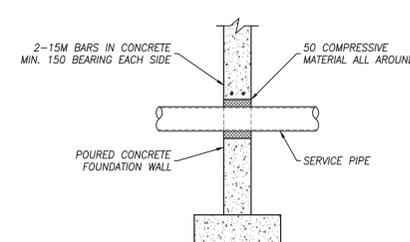
**ELEVATIONS OF ADJACENT FOOTINGS AND EXCAVATIONS**  
SCALE: NTS



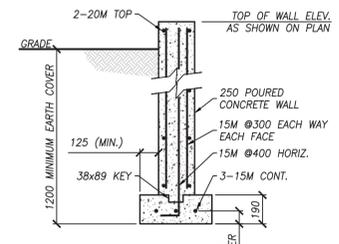
**TYPICAL SAW-CUT CONTROL JOINT IN SLAB-ON-GRADE**  
SCALE: NTS



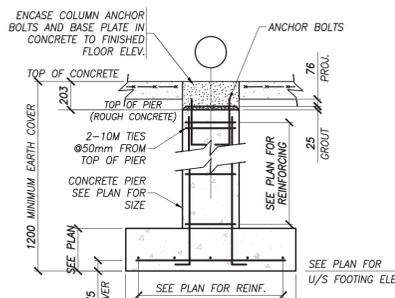
**SERVICE PIPE FOOTING DETAIL**  
SCALE: NTS



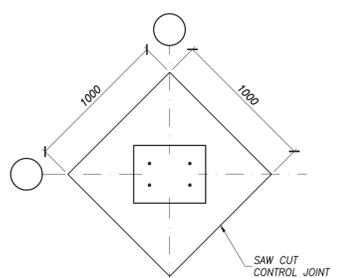
**TYPICAL PIPE PENETRATION**  
SCALE: NTS



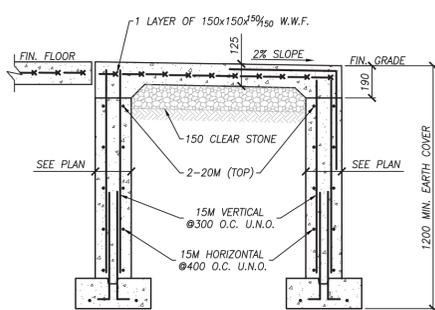
**TYPICAL POURED CONCRETE STRIP FOOTING**  
SCALE: NTS



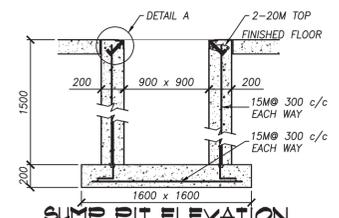
**TYPICAL PIER FOOTING**  
SCALE: NTS



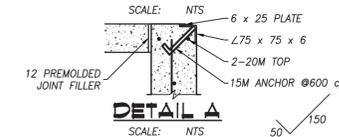
**TYPICAL SAW CUT CONTROL JOINT AT COLUMN**  
SCALE: NTS



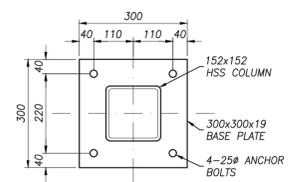
**TYPICAL EXTERIOR SLAB DETAIL**  
SCALE: NTS



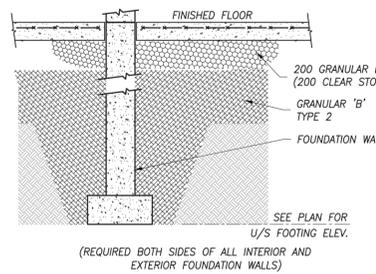
**SUMP PIT ELEVATION**  
SCALE: NTS



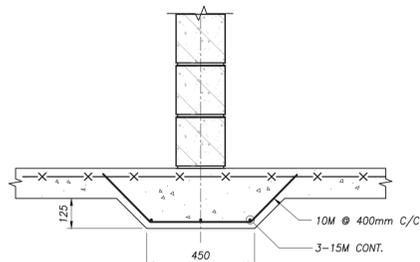
**DETAIL A**  
SCALE: NTS



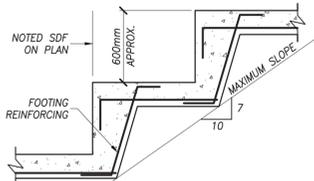
**TYPICAL BASE PLATE DETAIL**  
SCALE: NTS



**TYPICAL EXCAVATION AND BACKFILL AT FOUNDATION WALLS**  
SCALE: NTS



**THICKENING OF SLAB-ON-GRADE UNDER PARTITION WALLS**  
SCALE: NTS



**TYPICAL STEPPING OF WALL FOOTING DETAIL**  
SCALE: NTS

**KEI SYMBOLS LEGEND**

- KEI - WALL TAG (W1)
- KEI - CONSTRUCTION NOTE (N1)
- KEI - REVISION MARKER (A)
- KEI - DOOR MARKER (D101)
- KEI - WINDOW MARKER (W201)
- KEI - FRAMING MEMBER TAG (RD1)
- KEI - T.O.S. BEAM ELEV. TAG (+000)



2	26/02/20	ISSUED FOR TENDER
1	25/03/24	ISSUED FOR PERMIT
No.	DATE	REVISION

**REVISIONS**



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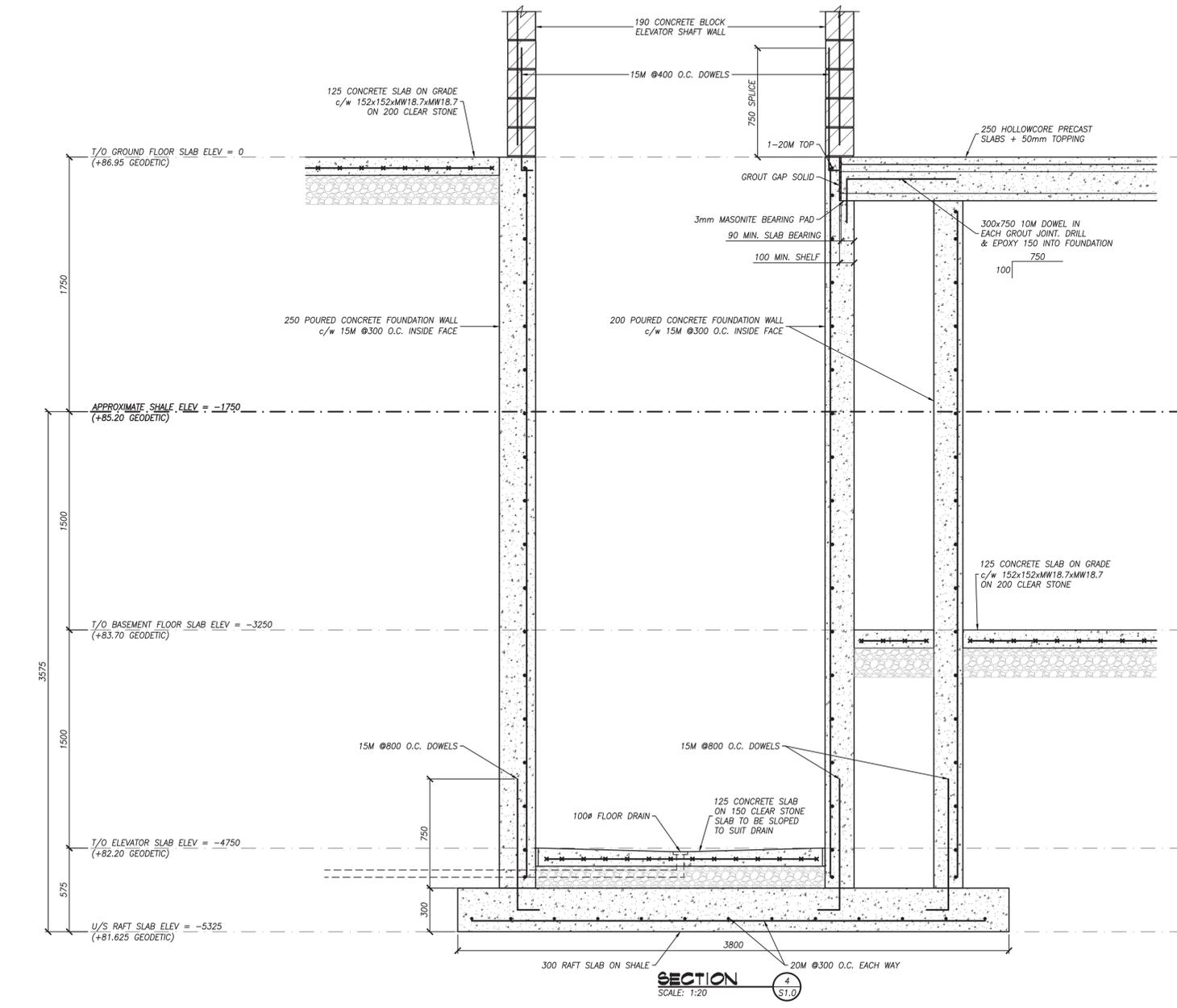
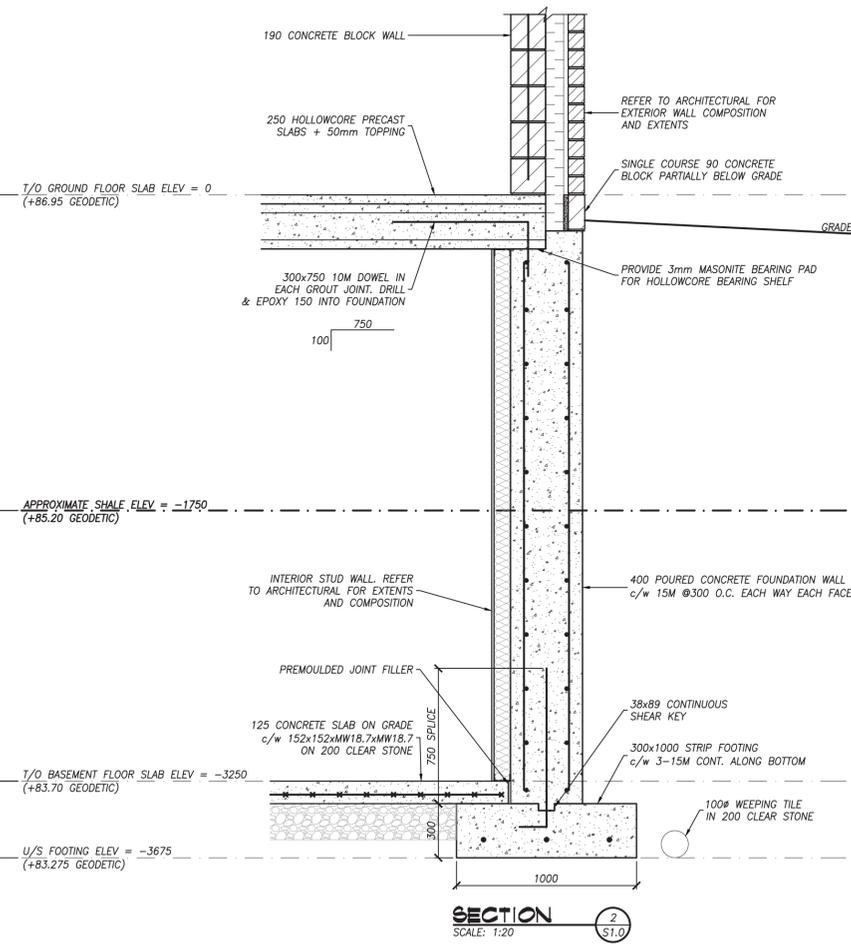
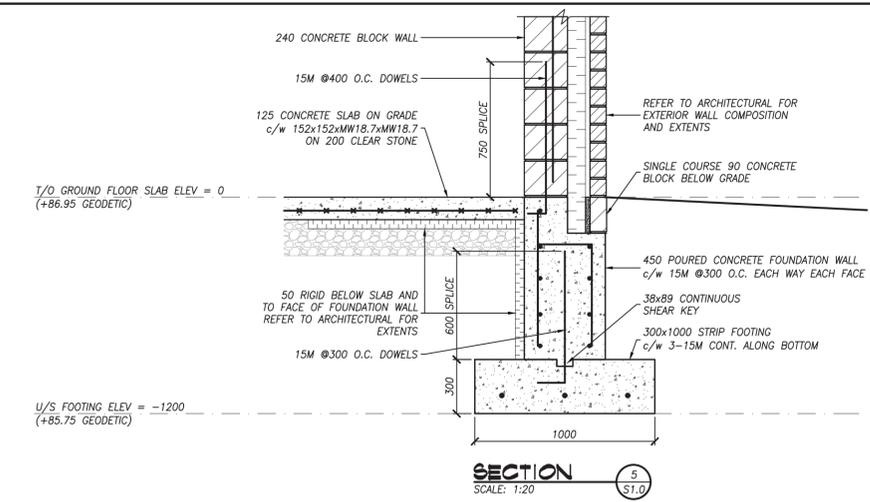
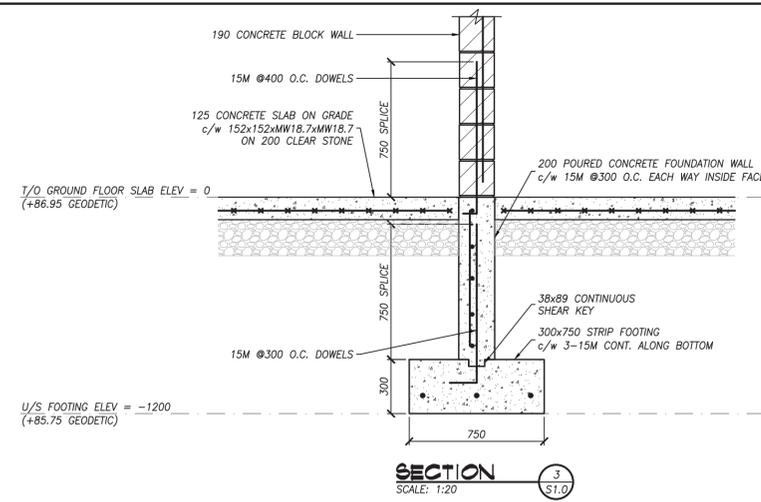
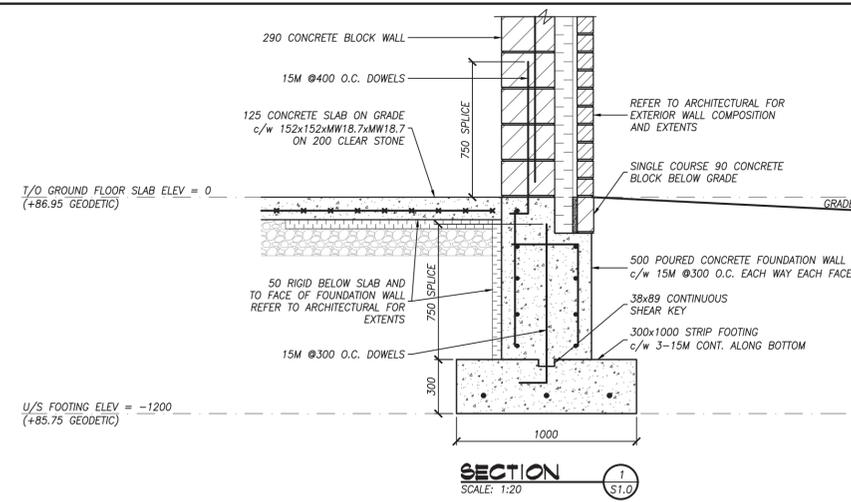
**NEW CROATIAN CULTURAL CLUB**

615 BARTON STREET STONEY CREEK ONTARIO

**FOUNDATION DETAILS**

DATE	DRAWN BY	DRAWING No.
FEBRUARY 2026	T.M.	S2.0
PROJECT No.	CHECKED BY	
21279	R.H. & J.P.C.	

PLOT DATE: 2026/02/20 2:42 PM



**KEY SYMBOLS LEGEND**

- KEY - WALL TAG (W1)
- KEY - CONSTRUCTION NOTE (N1)
- KEY - REVISION MARKER (R1)
- KEY - DOOR MARKER (D101)
- KEY - WINDOW MARKER (W201)
- KEY - FRAMING MEMBER TAG (RD1)
- KEY - T.O.S. BEAM ELEV. TAG (+000)



No.	DATE	REVISION
2	26/02/20	ISSUED FOR TENDER
1	25/03/24	ISSUED FOR PERMIT

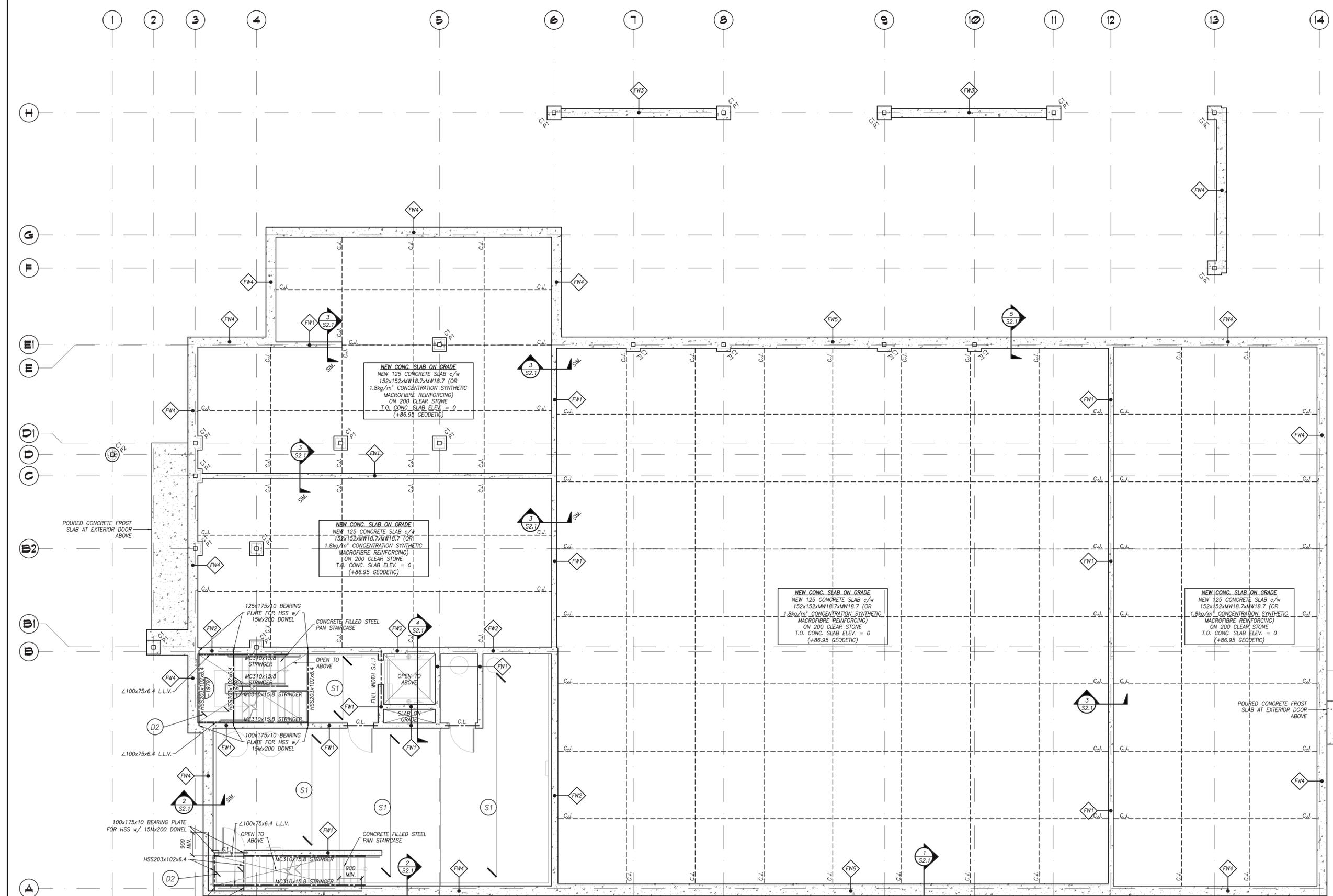
**REVISIONS**

**KALOS ENGINEERING**  
300 YORK BLVD HAMILTON, ONTARIO L8R 3K6  
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**NEW CROATIAN CULTURAL CLUB**  
615 BARTON STREET  
STONEY CREEK ONTARIO

**FOUNDATION SECTIONS**

DATE FEBRUARY 2026	DRAWN BY T.M.	DRAWING No. S2.1
PROJECT No. 21279	CHECKED BY R.H. & J.P.C.	



**KEI SYMBOLS LEGEND**

KEI - WALL TAG	W1
KEI - CONSTRUCTION NOTE	N1
KEI - REVISION MARKER	Δ
KEI - DOOR MARKER	D101
KEI - WINDOW MARKER	W201
KEI - FRAMING MEMBER TAG	RD1
KEI - T.O.S. BEAM ELEV. TAG	+000



No.	DATE	REVISION
4	26/02/20	ISSUED FOR TENDER
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2	25/11/14	REVISED FOR PERMIT
1	25/03/24	ISSUED FOR PERMIT

**REVISIONS**



**NEW CROATIAN CULTURAL CLUB**

615 BARTON STREET  
STONEY CREEK ONTARIO

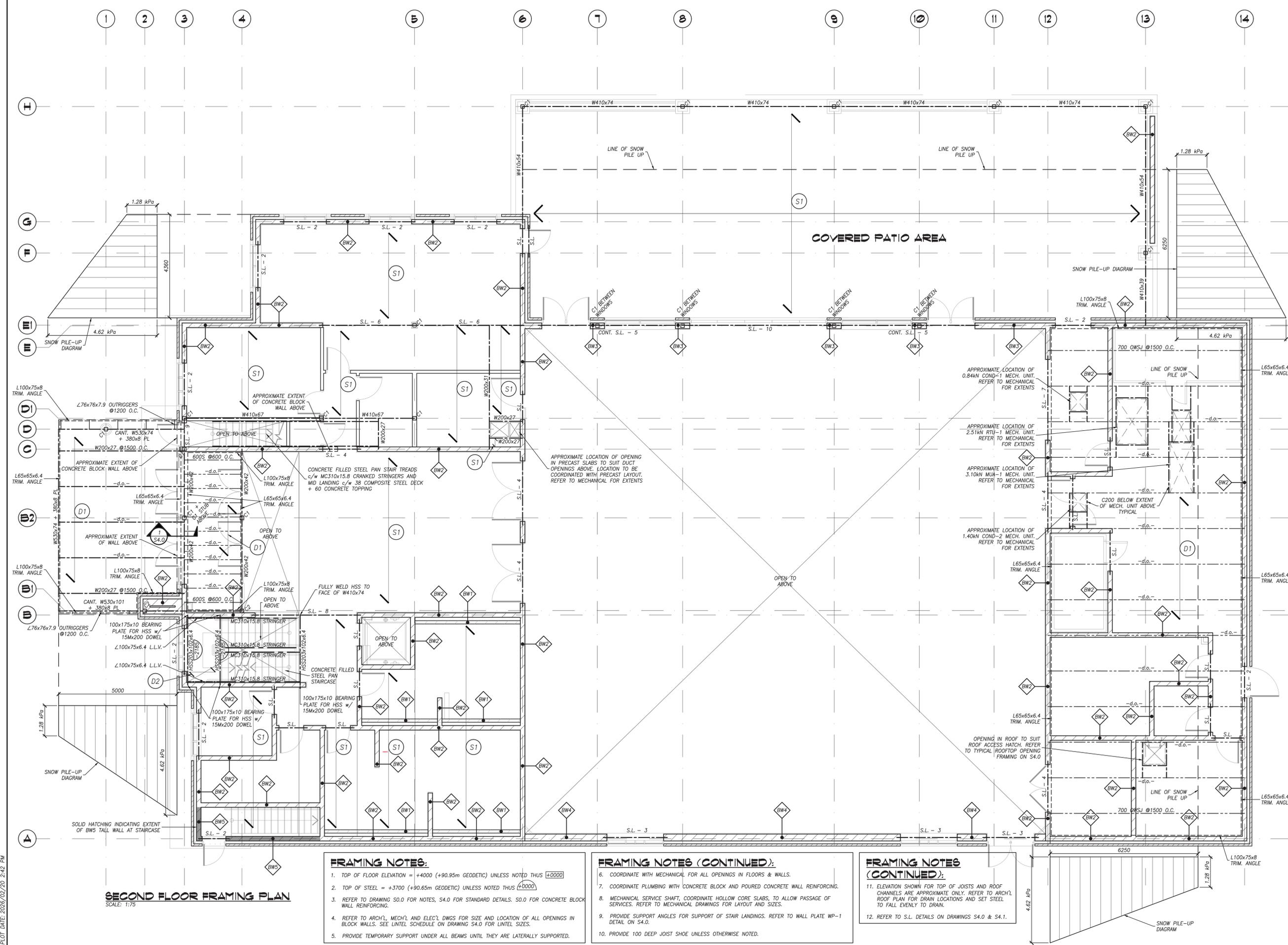
**GROUND FLOOR FRAMING PLAN**

DATE <b>FEBRUARY 2026</b>	DRAWN BY <b>T.M.</b>	DRAWING No. <b>S3.0</b>
PROJECT No. <b>21279</b>	CHECKED BY <b>R.H. &amp; J.P.C.</b>	

- FRAMING NOTES:**
- TOP OF FLOOR ELEVATION = 0 (+86.95m GEODETIC) UNLESS NOTED THIS (+0000)
  - TOP OF STEEL = -300 (+86.65m GEODETIC) UNLESS NOTED THIS (+0000)
  - REFER TO DRAWING S.O.0 FOR NOTES, S4.0 FOR STANDARD DETAILS. S.O.0 FOR CONCRETE BLOCK WALL REINFORCING.
  - REFER TO ARCH'L, MECH'L AND ELEC'L DWGS FOR SIZE AND LOCATION OF ALL OPENINGS IN BLOCK WALLS. SEE LINTEL SCHEDULE ON DRAWING S4.0 FOR LINTEL SIZES.
  - PROVIDE TEMPORARY SUPPORT UNDER ALL BEAMS UNTIL THEY ARE LATERALLY SUPPORTED.

- FRAMING NOTES (CONTINUED):**
- COORDINATE WITH MECHANICAL FOR ALL OPENINGS IN FLOORS & WALLS.
  - COORDINATE PLUMBING WITH CONCRETE BLOCK AND POURED CONCRETE WALL REINFORCING.
  - MECHANICAL SERVICE SHAFT, COORDINATE HOLLOW CORE SLABS, TO ALLOW PASSAGE OF SERVICES. REFER TO MECHANICAL DRAWINGS FOR LAYOUT AND SIZES.
  - PROVIDE SUPPORT ANGLES FOR SUPPORT OF STAIR LANDINGS. REFER TO WALL PLATE WP-1 DETAIL ON S4.0.

PLOT DATE: 2026/02/20 2:42 PM



**KEI SYMBOLS LEGEND**

KEI - WALL TAG	W1
KEI - CONSTRUCTION NOTE	W1
KEI - REVISION MARKER	△
KEI - DOOR MARKER	D101
KEI - WINDOW MARKER	W201
KEI - FRAMING MEMBER TAG	RD1
KEI - T.O.S. BEAM ELEV. TAG	+000



No.	DATE	REVISION
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3	25/12/10	REVISED FOR PERMIT
2	25/11/14	REVISED FOR PERMIT
1	25/03/24	ISSUED FOR PERMIT

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**NEW CROATIAN CULTURAL CLUB**  
 615 BARTON STREET STONEY CREEK ONTARIO

**SECOND FLOOR FRAMING PLAN**

DATE	DRAWN BY	DRAWING No.
FEBRUARY 2026	T.M.	S3.1
PROJECT No.	CHECKED BY	
21279	R.H. & J.P.C.	

**FRAMING NOTES:**

- TOP OF FLOOR ELEVATION = +4000 (+90.95m GEODETIC) UNLESS NOTED THUS  $\pm 0000$
- TOP OF STEEL = +3700 (+90.65m GEODETIC) UNLESS NOTED THUS  $\pm 0000$
- REFER TO DRAWING S.O.0 FOR NOTES, S4.0 FOR STANDARD DETAILS. S.O.0 FOR CONCRETE BLOCK WALL REINFORCING.
- REFER TO ARCH'L, MECH'L AND ELEC'L DWGS FOR SIZE AND LOCATION OF ALL OPENINGS IN BLOCK WALLS. SEE LINTEL SCHEDULE ON DRAWING S4.0 FOR LINTEL SIZES.
- PROVIDE TEMPORARY SUPPORT UNDER ALL BEAMS UNTIL THEY ARE Laterally SUPPORTED.

**FRAMING NOTES (CONTINUED):**

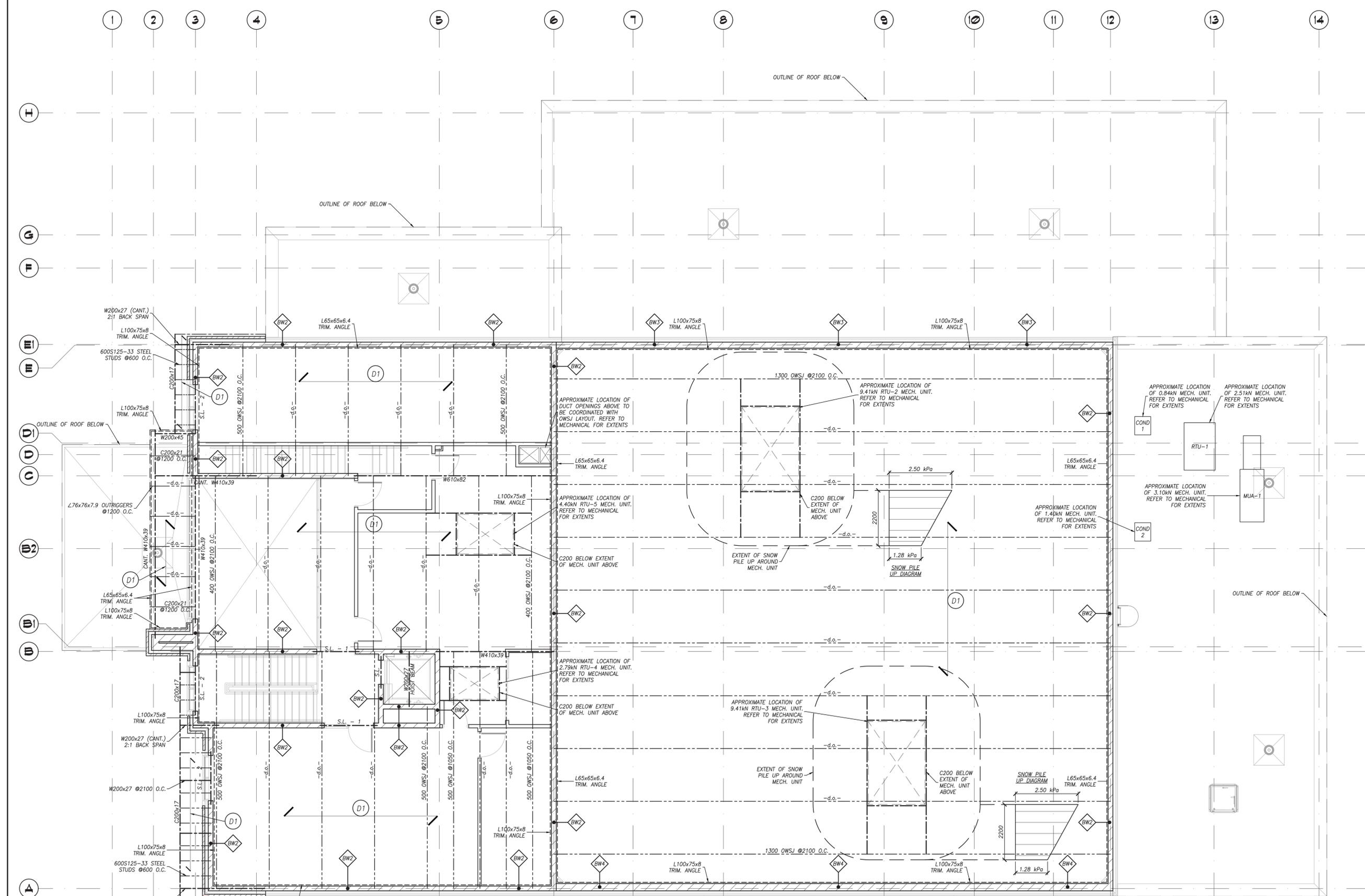
- COORDINATE WITH MECHANICAL FOR ALL OPENINGS IN FLOORS & WALLS.
- COORDINATE PLUMBING WITH CONCRETE BLOCK AND POURED CONCRETE WALL REINFORCING.
- MECHANICAL SERVICE SHAFT, COORDINATE HOLLOW CORE SLABS, TO ALLOW PASSAGE OF SERVICES. REFER TO MECHANICAL DRAWINGS FOR LAYOUT AND SIZES.
- PROVIDE SUPPORT ANGLES FOR SUPPORT OF STAIR LANDINGS. REFER TO WALL PLATE WP-1 DETAIL ON S4.0.
- PROVIDE 100 DEEP JOIST SHOE UNLESS OTHERWISE NOTED.

**FRAMING NOTES (CONTINUED):**

- ELEVATION SHOWN FOR TOP OF JOISTS AND ROOF CHANNELS ARE APPROXIMATE ONLY. REFER TO ARCH'L ROOF PLAN FOR DRAIN LOCATIONS AND SET STEEL TO FALL EVENLY TO DRAIN.
- REFER TO S.L. DETAILS ON DRAWINGS S4.0 & S4.1.

PLOT DATE: 2026/02/20 2:42 PM

**SECOND FLOOR FRAMING PLAN**  
 SCALE: 1:75



**KEY SYMBOLS LEGEND**

KEY - WALL TAG	W1
KEY - CONSTRUCTION NOTE	N1
KEY - REVISION MARKER	△
KEY - DOOR MARKER	D101
KEY - WINDOW MARKER	W201
KEY - FRAMING MEMBER TAG	RD1
KEY - T.O.S. BEAM ELEV. TAG	+000



No.	DATE	REVISION
4	26/02/20	ISSUED FOR TENDER
3	25/12/10	REVISED FOR PERMIT
2	25/11/14	REVISED FOR PERMIT
1	25/03/24	ISSUED FOR PERMIT

**REVISIONS**

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**NEW CROATIAN CULTURAL CLUB**  
615 BARTON STREET  
STONEY CREEK ONTARIO

**ROOF FRAMING PLAN**

DATE <b>FEBRUARY 2026</b>	DRAWN BY <b>T.M.</b>	DRAWING No. <b>S3.2</b>
PROJECT No. <b>21279</b>	CHECKED BY <b>R.H. &amp; J.P.C.</b>	

**FRAMING NOTES:**

- TOP OF STEEL = +7300 (+94.25 GEODETIC) UNLESS NOTED THUS (+0000)
- REFER TO DRAWING S4.0 FOR NOTES, S4.0 FOR STANDARD DETAILS. S0.0 FOR CONCRETE BLOCK WALL REINFORCING.
- REFER TO ARCH'L, MECH'L AND ELEC'L DWGS FOR SIZE AND LOCATION OF ALL OPENINGS IN BLOCK WALLS. SEE LINTEL SCHEDULE ON DRAWING S4.0 FOR LINTEL SIZES.
- PROVIDE TEMPORARY SUPPORT UNDER ALL BEAMS UNTIL THEY ARE LATERALLY SUPPORTED.
- COORDINATE WITH MECHANICAL FOR ALL OPENINGS IN FLOORS & WALLS.

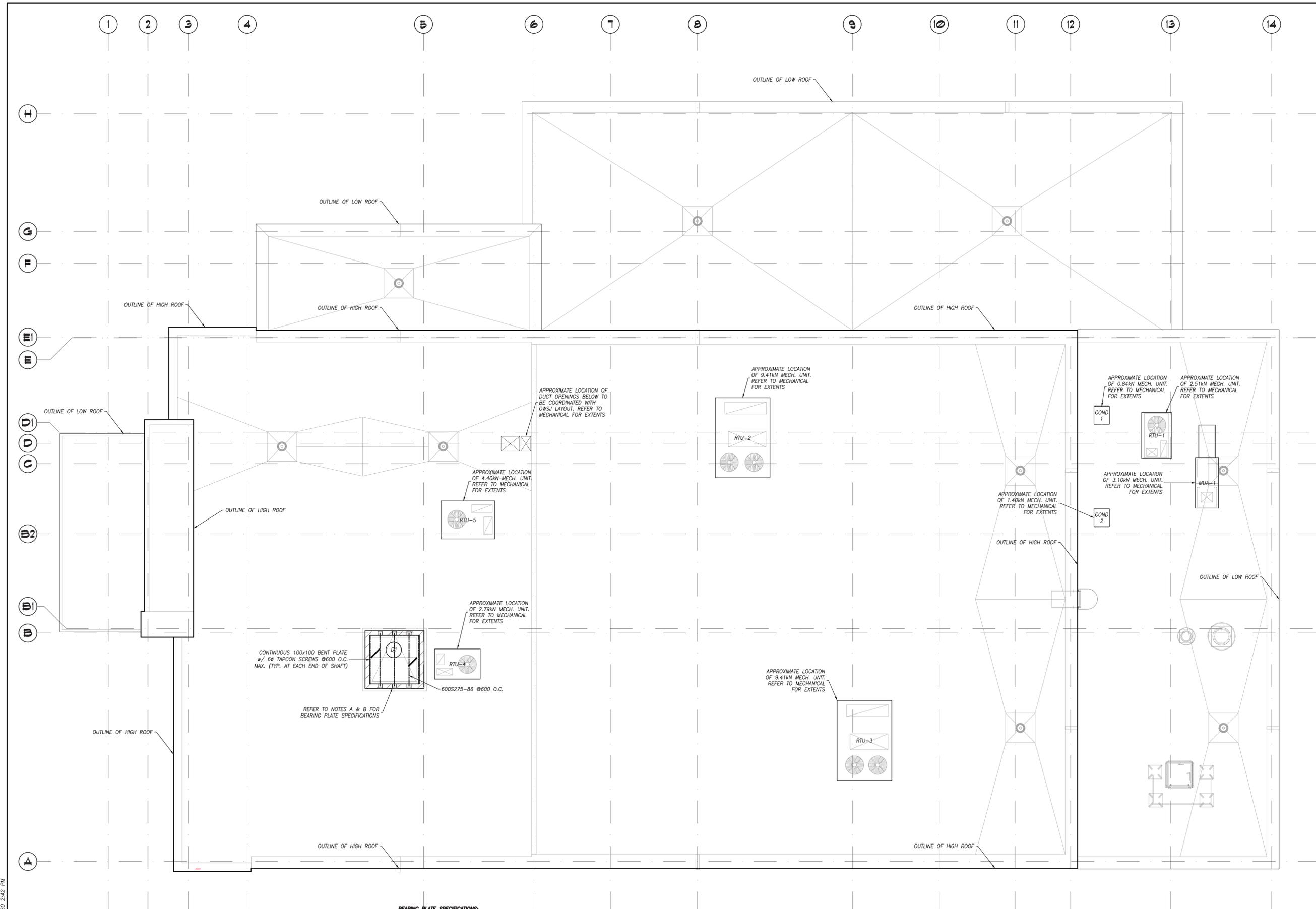
**FRAMING NOTES (CONTINUED):**

- COORDINATE PLUMBING WITH CONCRETE BLOCK AND POURED CONCRETE WALL REINFORCING.
- MECHANICAL SERVICE SHAFT, COORDINATE HOLLOW CORE SLABS, TO ALLOW PASSAGE OF SERVICES. REFER TO MECHANICAL DRAWINGS FOR LAYOUT AND SIZES.
- PROVIDE SUPPORT ANGLES FOR SUPPORT OF STAIR LANDINGS. REFER TO WALL PLATE WP-1 DETAIL ON S4.0.
- PROVIDE 100 DEEP JOIST SHOE UNLESS OTHERWISE NOTED.
- ELEVATION SHOWN FOR TOP OF JOISTS AND ROOF CHANNELS ARE APPROXIMATE ONLY. REFER TO ARCH'L ROOF PLAN FOR DRAIN LOCATIONS AND SET STEEL TO FALL EVENLY TO DRAIN.

**FRAMING NOTES (CONTINUED):**

- REFER TO S.L. DETAILS ON DRAWINGS S4.0 & S4.1.
- FOR ALL ROOF TOP UNITS WHERE THE LONGEST HORIZONTAL DIMENSION IS LESS THAN 3m, SNOW DRIFT NEED NOT BE CONSIDERED AS PER O.B.C. 2012 CLAUSE 4.1.6.7.(3).

PLOT DATE: 2026/02/20 2:42 PM



**KEI SYMBOLS LEGEND**

KEI - WALL TAG	W1
KEI - CONSTRUCTION NOTE	N1
KEI - REVISION MARKER	△
KEI - DOOR MARKER	D101
KEI - WINDOW MARKER	W201
KEI - FRAMING MEMBER TAG	RD1
KEI - T.O.S. BEAM ELEV. TAG	+000



No.	DATE	REVISION
3	26/02/20	ISSUED FOR TENDER
2	25/11/14	REVISED FOR PERMIT
1	25/03/24	ISSUED FOR PERMIT

**REVISIONS**

**KEI KALOS ENGINEERING**

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**NEW CROATIAN CULTURAL CLUB**

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STONEY CREEK ONTARIO

**ELEVATOR PENTHOUSE FRAMING & ROOF PLAN**

DATE FEBRUARY 2026	DRAWN BY T.M.	DRAWING No. S3.3
PROJECT No. 21279	CHECKED BY R.H. & J.P.C.	

**ELEVATOR PENTHOUSE FRAMING & ROOF PLAN**  
SCALE: 1:75

**BEARING PLATE SPECIFICATIONS:**

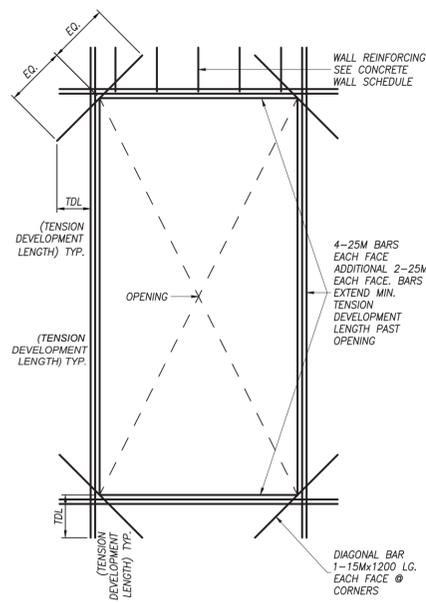
NOTE A: PROVIDE POCKET IN BLOCK WALL FOR STEEL MEMBER BEARING. GROUT POCKET SOLID AFTER STEEL MEMBER INSTALLATION.

NOTE B: PROVIDE 175x175x16 BEARING PLATE w/ 2-19# ANCHORS WELDED TO EACH PLATE AND GROUTED SOLID INTO BLOCK COURSE BELOW.

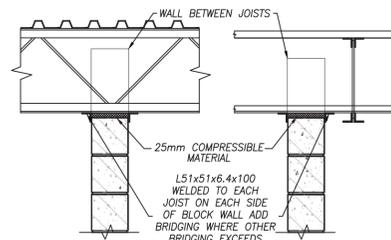
\*GENERAL CONTRACTOR (GC) TO COORDINATE U/S BEAM DIMENSION WITH ARCHITECTURAL DRAWINGS AND ELEVATOR SHOP DRAWINGS\*

PLOT DATE: 2026/02/20 2:42 PM



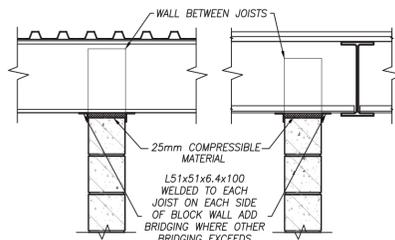


**TYPICAL REINFORCING AROUND DOOR OPENING IN CONG. WALL**  
SCALE: NTS



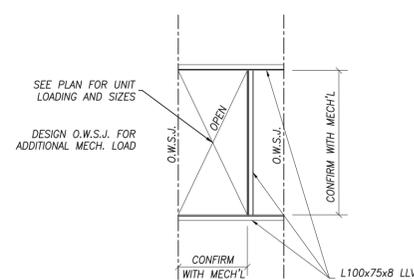
NOTE: PROVIDE BRACING FOR 90mm WALLS SPANNING MORE THAN 3.6m HORIZONTALLY, FOR 140mm WALLS SPANNING MORE THAN 3.6m HORIZONTALLY, AND FOR 190mm WALLS SPANNING MORE THAN 3.6m HORIZONTALLY.

**BRACING OF PARTITION WALLS AT UNDERSIDE OF STEEL JOIST**  
SCALE: NTS

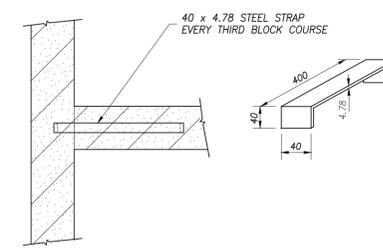


NOTE: PROVIDE BRACING FOR 90mm WALLS SPANNING MORE THAN 3.6m HORIZONTALLY, FOR 140mm WALLS SPANNING MORE THAN 3.6m HORIZONTALLY, AND FOR 190mm WALLS SPANNING MORE THAN 3.6m HORIZONTALLY.

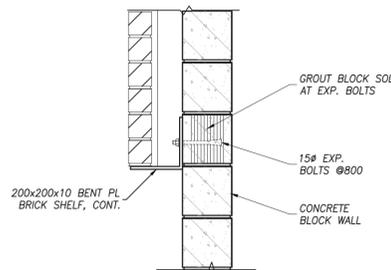
**BRACING OF PARTITION WALLS AT UNDERSIDE OF STEEL BEAM**  
SCALE: NTS



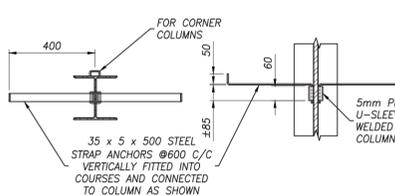
**TYPICAL ROOF TOP OPENING FRAMING**  
SCALE: NTS



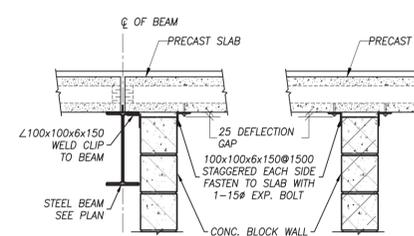
**TYPICAL INTERSECTION OF CONCRETE BLOCK WALLS**  
SCALE: NTS



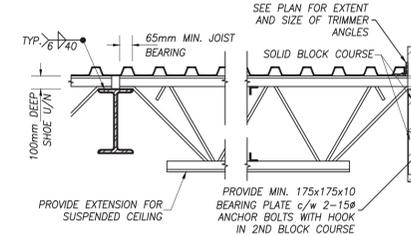
**TYPICAL BRICK SHELF DETAIL**  
SCALE: NTS



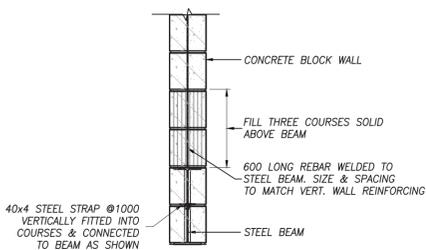
**DETAIL OF ANCHORAGE OF STEEL COLUMN TO MASONRY WALL**  
SCALE: NTS



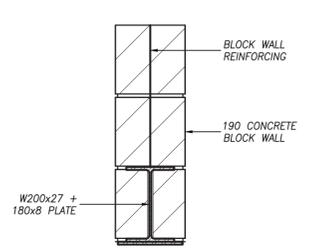
**BRACING OF PARTITION WALLS AT UNDERSIDE OF PRECAST SLAB**  
SCALE: NTS



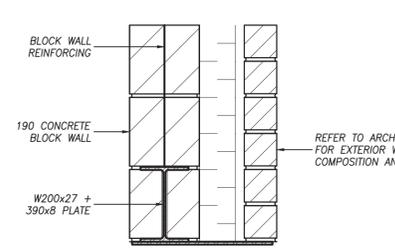
**STEEL JOIST BEARING ON STEEL AND MASONRY (TYPICAL)**  
SCALE: NTS



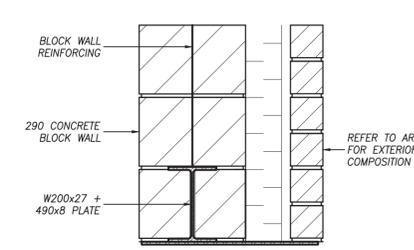
**ANCHORAGE DETAIL OF STEEL BEAM TO MASONRY WALL**  
SCALE: NTS



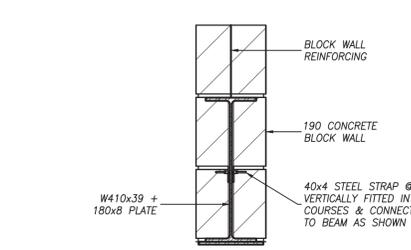
**S.L. - 1 DETAIL**  
SCALE: NTS



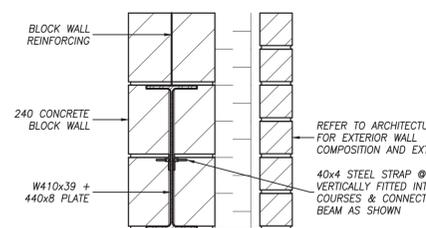
**S.L. - 2 DETAIL**  
SCALE: NTS



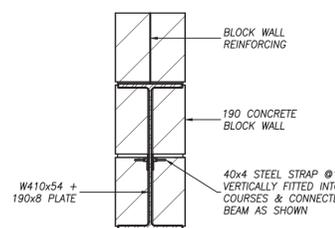
**S.L. - 3 DETAIL**  
SCALE: NTS



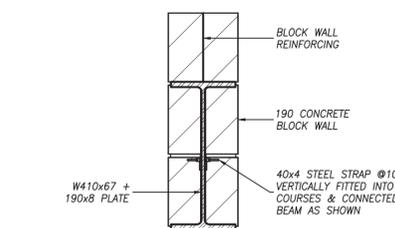
**S.L. - 4 DETAIL**  
SCALE: NTS



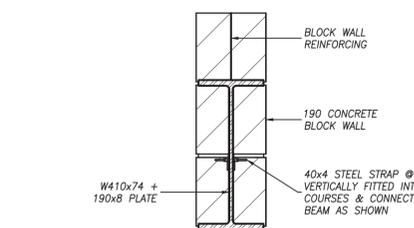
**S.L. - 5 DETAIL**  
SCALE: NTS



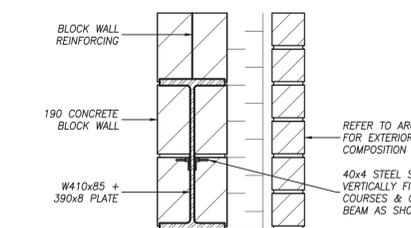
**S.L. - 6 DETAIL**  
SCALE: NTS



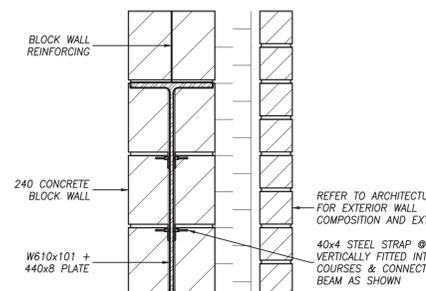
**S.L. - 7 DETAIL**  
SCALE: NTS



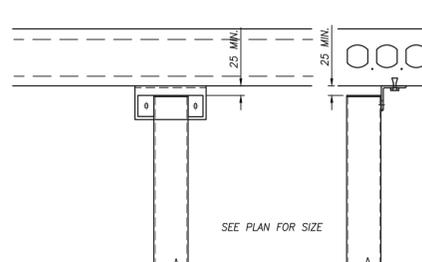
**S.L. - 8 DETAIL**  
SCALE: NTS



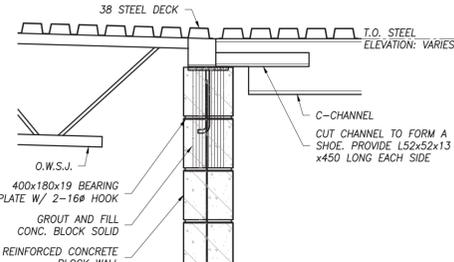
**S.L. - 9 DETAIL**  
SCALE: NTS



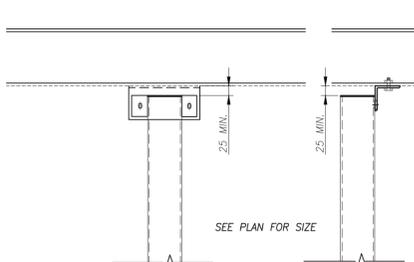
**S.L. - 10 DETAIL**  
SCALE: NTS



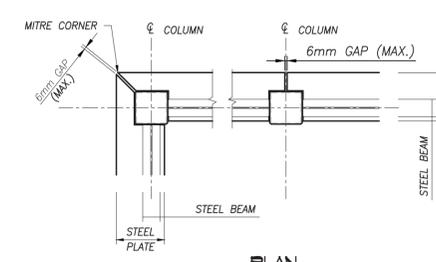
**TYPICAL SLOTTED CONNECTION FOR HSS BELOW PRECAST SLAB**  
SCALE: NTS



**TYPICAL SHARED BEARING PLATE DETAIL**  
SCALE: NTS



**TYPICAL SLOTTED CONNECTION FOR HSS BELOW BEAM**  
SCALE: NTS



**TYPICAL LINTEL DETAIL FOR MASONRY AT COLUMN**  
SCALE: NTS

**KEI SYMBOLS LEGEND**

- KEI - WALL TAG (W1)
- KEI - CONSTRUCTION NOTE (N1)
- KEI - REVISION MARKER (R1)
- KEI - DOOR MARKER (D101)
- KEI - WINDOW MARKER (W201)
- KEI - FRAMING MEMBER TAG (RD1)
- KEI - T.O.S. BEAM ELEV. TAG (+000)

No.	DATE	REVISION
2	26/02/20	ISSUED FOR TENDER
1	25/03/24	ISSUED FOR PERMIT

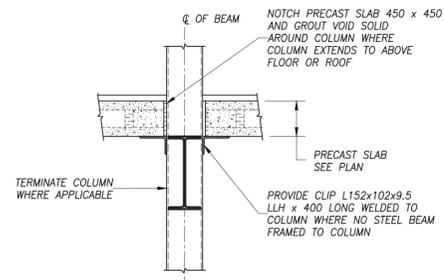
**REVISIONS**

**NEW CROATIAN CULTURAL CLUB**  
615 BARTON STREET  
STONEY CREEK ONTARIO

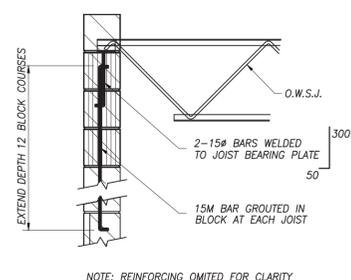
**TYPICAL FRAMING DETAILS**

DATE FEBRUARY 2026	DRAWN BY T.M.	DRAWING No.
PROJECT No. 21279	CHECKED BY R.H. & J.P.C.	<b>S4.1</b>

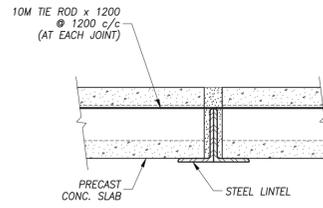
PLOT DATE: 2026/02/20 2:42 PM



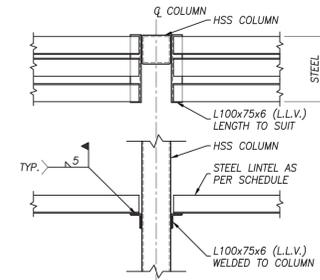
**TYPICAL PRECAST SLAB DETAIL AT STEEL COLUMN LOCATION**  
SCALE: NTS



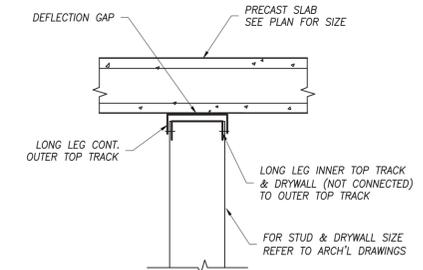
**TYPICAL DETAIL FOR TIE-DOWN ANCHORS FOR BEAMS AND JOISTS**  
SCALE: NTS  
NOTE: REINFORCING OMITTED FOR CLARITY



**TYPICAL PRECAST DETAIL BEARING ON STEEL ANGLE LINTEL**  
SCALE: NTS  
NOTE: DETAIL AT MECHANICAL OPENINGS



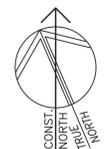
**TYPICAL LINTEL BEARING DETAIL AT COLUMN**  
SCALE: NTS



**TYPICAL DEFLECTION GAP DETAIL**  
SCALE: NTS

**KEI SYMBOLS LEGEND**

- KEI - WALL TAG
- KEI - CONSTRUCTION NOTE
- KEI - REVISION MARKER
- KEI - DOOR MARKER
- KEI - WINDOW MARKER
- KEI - FRAMING MEMBER TAG
- KEI - T.O.S. BEAM ELEV. TAG



No.	DATE	REVISION
1	26/02/20	ISSUED FOR TENDER

**REVISIONS**



300 YORK BLVD HAMILTON, ONTARIO L8R 3K6  
905-333-9119 www.kaloseng.ca

**NEW CROATIAN CULTURAL CLUB**

615 BARTON STREET ONTARIO  
STONEY CREEK

**TYPICAL FRAMING DETAILS**

DATE FEBRUARY 2026	DRAWN BY T.M.	DRAWING No. S4.2
PROJECT No. 21279	CHECKED BY R.H. & J.P.C.	