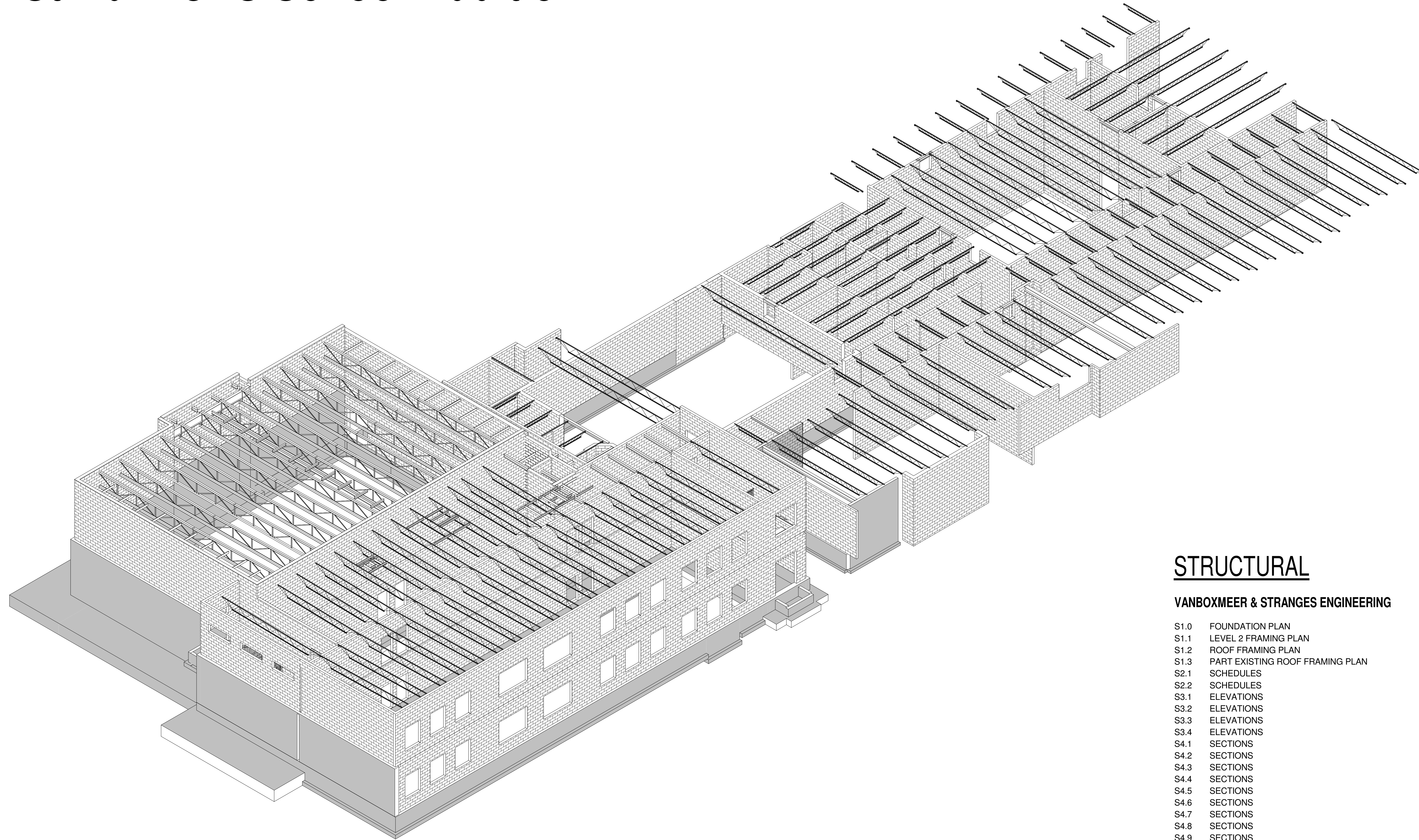


St Mark CES School Addition



STRUCTURAL

VANBOXMEER & STRANGES ENGINEERING

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- S5.5 TYPICAL DETAILS
- S5.6 TYPICAL DETAILS
- S5.7 TYPICAL DETAILS

 architects
 1490 Richmond St. Suite 305
 London, ON N6G 6J4
 hello@garchitects.ca | (519) 475-8641
 www.garchitects.ca

 **DEI Consulting Engineers**
 MECHANICAL ELECTRICAL PLUMBING
 55 Northland Road
 Waterloo, ON N2V 1Y8
 (519) 725-3355
 deiconsultants.ca

 **V&S**
 STRUCTURAL ENGINEERS
 1108 Dundas St. Suite 104
 London, ON N6W 3A7
 (519) 433-4861
 vands.com

 **DON MONROE ARCHITECTS**
 368 Oxford Street East
 London, ON N6A 1V7
 (519) 667-3322
 nla.ca

 **MTE**
 520 Bingham Centre Drive
 Kitchener, ON N2B 3V9
 (519) 743-6500
 mte85.com

 **WCB**
 35 Weber Street West, Unit A
 Kitchener, ON N2H 3Z1
 (519) 575-9990
 www.wcob.ca

6	2025.10.31	Revised SPA Comments
5	2025.09.08	Issued For Permit
4	2025.09.05	Issued For SPA
3	2025.08.29	90% Client Review
2	2025.08.08	80% Client Review
1	2025.07.11	70% Client Review
#	date:	revision:

NOT FOR CONSTRUCTION

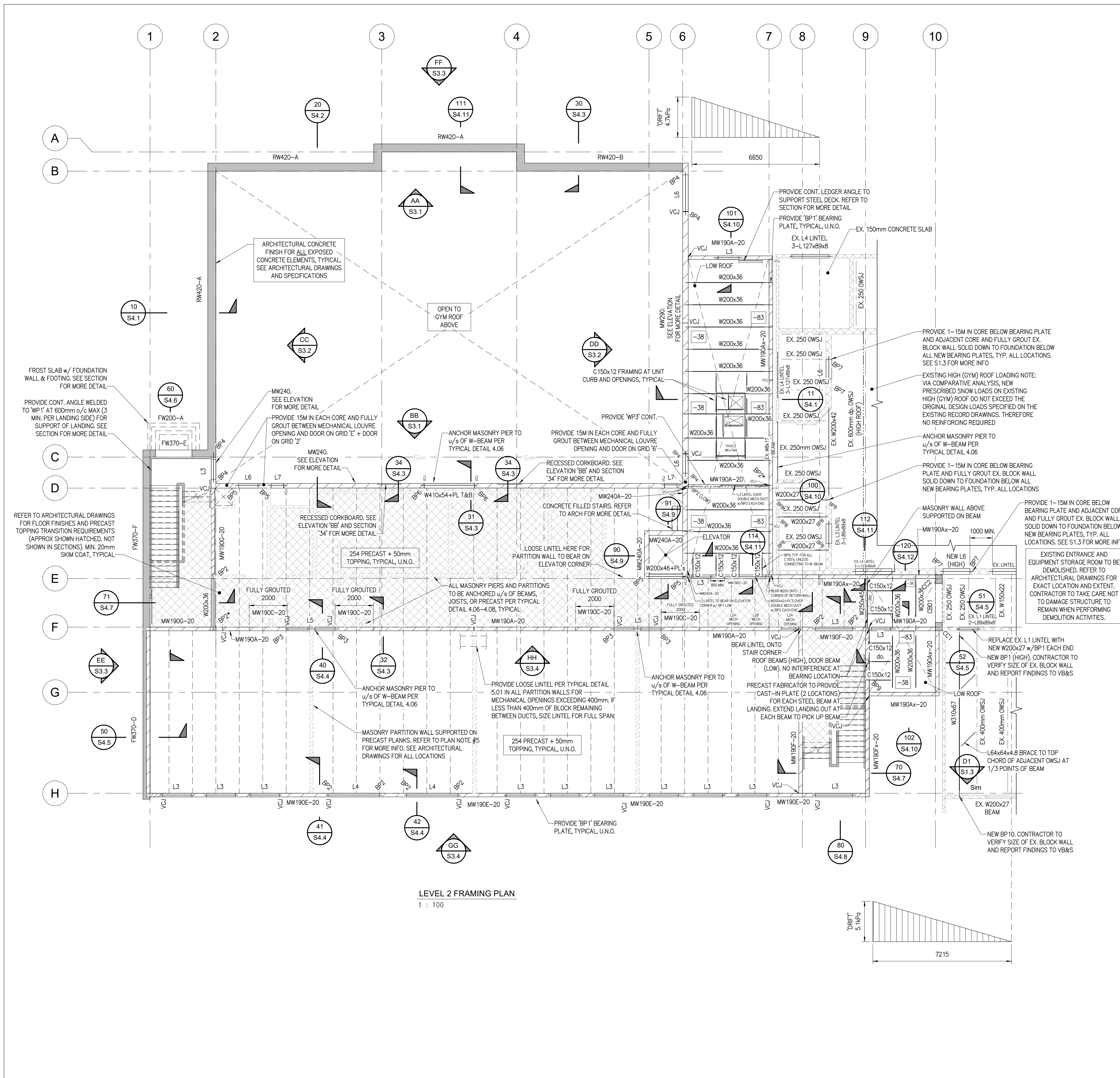
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St. Mark CES Addition
 240 Autumn Hill Crescent, Kitchener, ON N2N 1K8

COVER SHEET STRUCTURE

scale:
 drawn by: AH
 reviewed by: GG/CS
 job number: 25027
 plot date: 2026-04-10 2:04:09 PM

drawing number: **S0.00**



LEVEL 2 FRAMING PLAN NOTES

- LEVEL 2 FINISHED FLOOR ELEVATION IS AT +3797 (360.397m GEODETIC). CONFIRM ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- TYPICAL SECOND FLOOR CONSTRUCTION: 50mm TOPPING (20mm MIN. SKIM COAT, SEE PLAN) ON 254mm HOLLOWCORE PRECAST PLANKS (SEE PLAN FOR LOCATIONS) SUPPORTED ON STEEL BEAMS AND BLOCK WALLS. HOLLOWCORE PLANK SHOP DRAWINGS BEARING THE SEAL OF AN ONTARIO P.E.N.G. SHALL BE SUBMITTED TO THE STRUCTURAL CONSULTANT. PLANKS TO BE DESIGNED FOR ALL LOADS SHOWN ON PLANS AND IN SCHEDULES.
- TYPICAL LOW ROOF CONSTRUCTION U.N.O.: 38mm STEEL DECK SUPPORTED BY STEEL JOISTS OR STEEL BEAMS SPACED AS SHOWN ON PLAN. STEEL DECK FABRICATOR TO DESIGN DECK AND DETERMINE DECK THICKNESS (GAUGE) BASED ON LOADS SHOWN ON PLAN AND SCHEDULE (CANAM 1.5B OR EQUAL WITH MINIMUM 0.76mm THICKNESS). NOTE AREAS WITH DRIFT LOADING MAY REQUIRE HEAVIER GAUGE DECK - DESIGNER TO VERIFY ALL LOADS. SEE ROOF FRAMING NOTES FOR ADDITIONAL INFO AS REQUIRED.
- TYPICAL STAIR, 2ND FLOOR - AND MID-LANDINGS CONSTRUCTION: 2ND FLOOR LANDINGS: 50mm TOPPING (20mm MIN. SKIM COAT, SEE PLAN) ON 254mm SOLIDCAST PLANKS
MID LANDINGS: 254mm SOLIDCAST PLANKS
- PRECAST MANUFACTURER TO CO-ORDINATE ALL BLOCK PARTITION WALLS (SHOWN THUS) AND EXTERIOR VENEER LOADING ON THE PRECAST PLANKS. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR THE LOCATION OF ALL BLOCK PARTITION WALLS. 140 BLOCK WALLS W=9 kN/m, 190 BLOCK WALLS W=11 kN/m SLS.
- SOME OPENINGS IN PRECAST CONCRETE FLOOR PLANKS ARE SHOWN ON THE FRAMING PLANS BASED ON THE LATEST MECHANICAL INFORMATION AVAILABLE TO THE CONSULTANTS. PRECAST CONCRETE FLOOR PLANK FABRICATOR TO CONFIRM AND COORDINATE ALL MECHANICAL OPENINGS AND SIZES WITH THE MECHANICAL AND GENERAL CONTRACTORS DURING THE SHOP DRAWING PHASE. SEE ALSO MECHANICAL AND ARCHITECTURAL DRAWING.
- ALL OPENINGS IN THE PRECAST CONCRETE FLOOR SLABS NOT SHOWN ON PLAN ARE TO BE APPROVED BY THE PRECAST CONCRETE PLANK FABRICATOR.
- INSTALL ANTI-ROTATION BARS AT THIRD POINTS OF PRECAST PLANKS IN ALL AREAS OF TO BE FINISHED WITH VINYL OR QUARRY TILES.
- SEE ARCHITECTURAL DRAWINGS FOR COLUMN OFFSETS FROM GRID LINES.
- SEE TYPICAL DETAIL 3.32 FOR ADDITIONAL STEEL PLATES REQUIRED FOR STEEL BEAMS SUPPORTING PRECAST CONCRETE FLOOR PLANKS. SEE TYPICAL DETAIL 5.10 FOR ADDITIONAL ANGLES WHICH MAY BE REQUIRED AT STEEL COLUMNS SUPPORTING PRECAST CONCRETE FLOOR PLANKS. REFER ALSO TO TYPICAL DETAIL 5.10 FOR PRECAST CONCRETE FLOOR PLANK SUPPORT AT STEEL COLUMNS.
- PRECAST MANUFACTURER TO CO-ORDINATE SIZE AND LOCATION OF ALL MECHANICAL UNITS ON THE PRECAST INCLUDING THE WEIGHT OF THE HOUSEKEEPING SLABS. REFER TO TYPICAL DETAIL 3.33
- TOP OF STEEL BEAMS ARE AT UNDERSIDE OF PRECAST PLANKS/STEEL DECK UNLESS NOTED ON PLANS THUS: BELOW TOP OF PLANK. SEE SECTIONS FOR DETAILS WHERE TOP OF STEEL BEAMS ARE RECESSED INTO THE PRECAST FLOOR PLANKS.
- BEAMS DENOTED WITH MC ARE TO BE CONNECTED FOR FULL MOMENT AND SHEAR CAPACITY OF BEAM UNLESS NOTED OTHERWISE.
- WHERE SHOWN, 'WP1' - CONTINUOUS DECK WELD PLATE TO BE 100x6 WITH 12mmØ ANCHORS x 300 LC + 40 HC @ 400 o/c INSTALLED INTO GROUT-FILLED TOP COURSES OF LOAD BEARING CMU WALLS.
- ALL BEAMS ON PLAN ARE TO BEAR ON 'BP1' BEARING PLATES AT 190 MASONRY WALLS, 'BP4' BEARING PLATES AT 241 MASONRY WALLS, 'BP7' BEARING PLATES AT 290 MASONRY WALLS U.N.O ON PLAN.
- PROVIDE A SUITABLE LINTEL FOR ALL ARCHITECTURAL AND MECHANICAL DUCT OPENINGS. REFER TO LOAD BEARING BLOCK WALL LINTEL SCHEDULE AND TYPICAL DETAIL 5.01 FOR LINTELS IN NON LOAD BEARING WALLS.
- LINTEL BEAMS AT EXTERIOR WALLS NOTED WITH +PL** ARE TO HAVE CONTINUOUS TOP+BOTTOM PLATE AND GUSSETS HOT DIPPED GALVANIZED AS SHOWN IN SECTION '42'.
- DESIGN THE PRECAST FLOOR, INCLUDING CONNECTIONS TO SUPPORTING ELEMENTS FOR A FACTORED DIAPHRAGM SHEAR OF 27kN/m.
- DESIGN THE LOW ROOF STEEL DECK, INCLUDING CONNECTIONS TO SUPPORTING ELEMENTS FOR A FACTORED DIAPHRAGM SHEAR OF 12kN/m. NOTE: AREAS WITH HIGHER DIAPHRAGM SHEAR LOADING MAY REQUIRE HEAVIER GAUGE DECK - DESIGNER TO VERIFY ALL LOADS.
- VERTICAL CONTROL JOINTS ARE DENOTED AS 'VCJ' ON PLAN AND ELEVATION. LOCATIONS SHOWN ARE SUGGESTED LAYOUTS. ALL CHANGES REQUIRED TO LAYOUT OF 'VCJ' MUST BE APPROVED BY VB&S PRIOR TO CONSTRUCTION. BOND BEAM REINFORCING IS TO BE CONTINUOUS THRU VCJ AT ALL LOCATIONS, U.N.O.

GENERAL NOTE:
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St. Mark CES Addition
240 Ashmun Hill Crescent
Kitchener, ON N2H 1K8

LEVEL 2 FRAMING PLAN



scale: As indicated
 drawn by: AV
 reviewed by: PR
 job number: 25158
 plot date: 2026-04-23 1:50:05 PM
 drawing number:

S1.1

architects
1480 Richmond St. Suite 305
London, ON N6G 0H4
info@garchitects.ca | (519) 473-6641
www.garchitects.ca

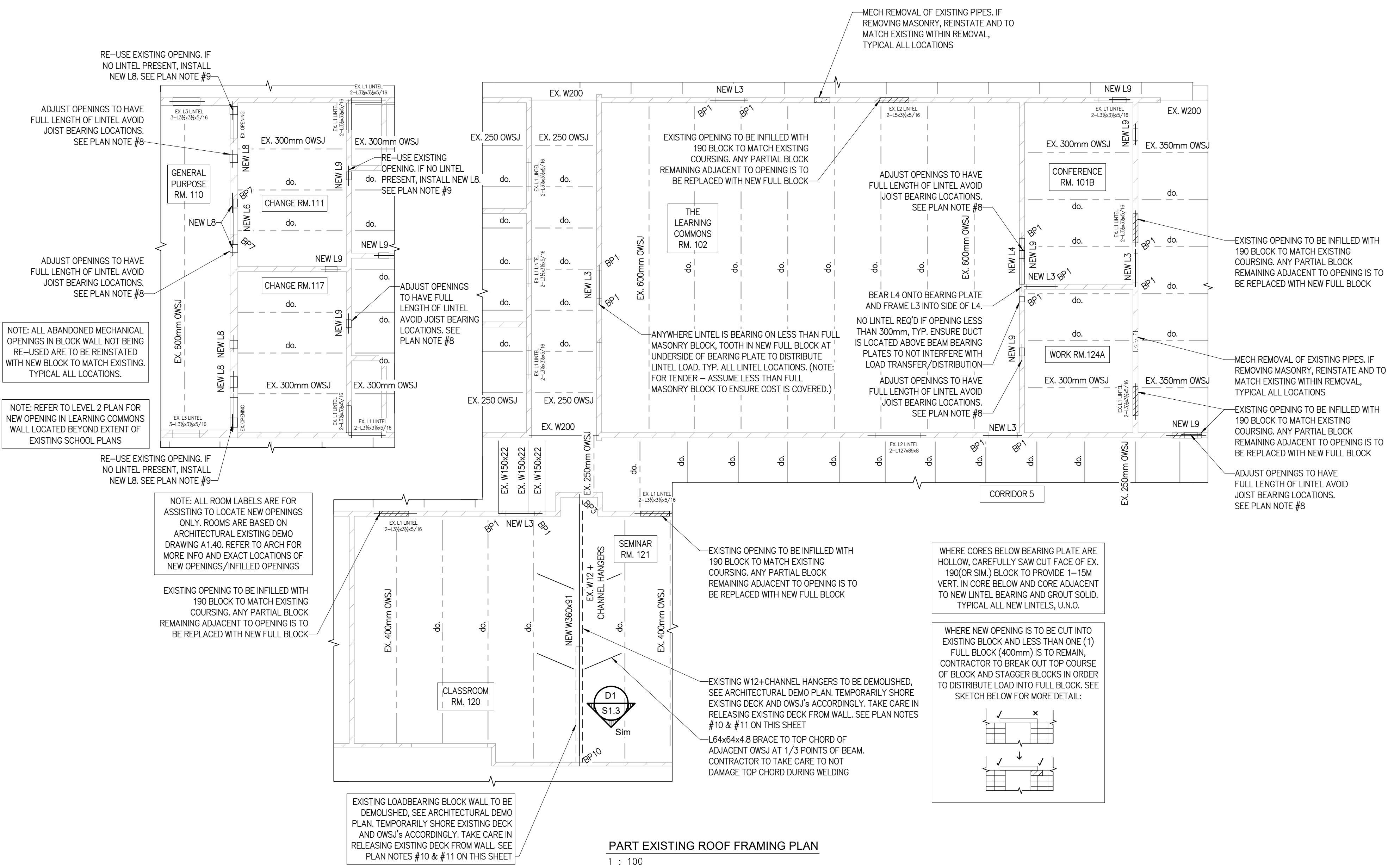
DEI Consulting Engineers
MECHANICAL, ELECTRICAL, PLUMBING
55 Northland Road
Waterloo, ON N2V 1Y8
(519) 725-3555
deiconsultants.ca

VB&S
STRUCTURAL ENGINEERS
1108 Dundas St. Suite 104
London, ON N6W 3A7
(519) 433-4661
vbands.com

BON KOUROS ARCHITECTURE
388 Oxford Street East
London, ON N6A 1V7
(519) 967-3322
kba.ca

MTE
520 Brimingham Centre Drive
Kitchener, ON N2B 3S9
(519) 743-6500
mte85.com

35 Weber Street West
Kitchener, ON N2B 2Z1
(519) 578-8660
www.wcsb.ca

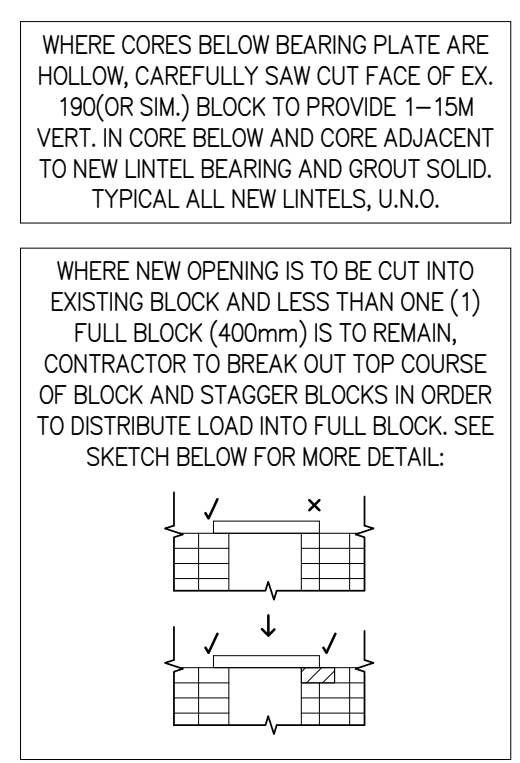


PART EXISTING ROOF FRAMING PLAN
1 : 100

EXISTING ROOF FRAMING PLAN NOTES

- EXISTING ROOF U/S DECK ELEVATION IS AT +3797 (360.397m GEODETIC). EXISTING GYM ROOF U/S DECK ELEVATION IS AT +6372 (372.972m GEODETIC). CONFIRM ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- TYPICAL EXISTING STEEL ROOF CONSTRUCTION U.N.O.: 38mm STEEL ROOF DECK SUPPORTED BY STEEL JOISTS OR STEEL BEAMS SPACED AS SHOWN ON PLAN.
- OWSJ SPACING SHOWN IS APPROXIMATE ONLY. JOIST LOCATIONS TO BE VERIFIED ON SITE AND REPORT TO VB&S IF LOCATIONS VARY FROM ASSUMPTIONS.
- NOT ALL ROOF OPENINGS HAVE BEEN SHOWN ON PLAN. STEEL FABRICATOR TO COORDINATE FINAL SIZE AND LOCATION OF ROOF OPENINGS WITH GENERAL CONTRACTOR PRIOR TO FABRICATION. SEE TYPICAL DETAIL 5.02 ON DRAWING S5.6 FOR REQUIRED FRAMING AROUND ROOF OPENINGS.
- CONTRACTOR TO ALLOW FOR NEW LOOSE LINTELS AT ALL NEW MECHANICAL OPENINGS OVER 300mm WIDE WITHIN EXISTING SCHOOL WALLS. REFER TO PLAN AND LINTEL SCHEDULE FOR SIZE AND LOCATION. NOT ALL WALL OPENINGS ARE SHOWN, ALSO REFER TO MECHANICAL DRAWINGS. CONTACT VB&S FOR CONFIRMATION OF SIZE IF NOT SHOWN ON PLAN.
- ABANDONED WALL OPENINGS FROM ALL EXISTING MECHANICAL AND ELECTRICAL DUCTS, ETC. TO BE REMOVED ARE TO BE INFILLED WITH CONCRETE BLOCK TO MATCH EXISTING. NOT ALL LOCATIONS ARE NOTED ON PLAN. REFER TO M-E DRAWINGS FOR ALL LOCATIONS.
- CONTRACTOR TO ALLOW FOR LOOSE LINTEL PER TYPICAL DETAIL 5.01/5.01b FOR ALL NEW OPENINGS IN NEW/EXISTING NON-LOAD BEARING CONCRETE BLOCK WALLS INCLUDING BUT NOT LIMITED TO DOORS, M+E EQUIPMENT, ETC.
- ALL NEW MECHANICAL OPENINGS ARE TO BE ADJUSTED TO AVOID BEING PLACED UNDER OWSJ/BEAM BEARING ON BLOCK WALL. COORDINATE WITH STRUCTURAL + MECHANICAL CONSULTANT AS REQUIRED PRIOR TO CREATING NEW OPENINGS.
- CONTRACTOR TO ALLOW FOR NEW LINTELS OVER ALL EXISTING OPENINGS OVER 300mm BEING RE-USED. EXISTING CONDITION IS ASSUMED TO HAVE NO LINTEL CURRENTLY LOCATED IN EXISTING BLOCK WALL. NOT ALL LOCATIONS ARE SHOWN ON STRUCTURAL DRAWINGS. REFER TO MECHANICAL DRAWINGS FOR ALL LOCATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION AND INSPECTION OF ALL TEMPORARY SHORING REQUIRED TO FACILITATE REMOVAL OF EXISTING BUILDING ELEMENTS AND INSTALLATION OF NEW STRUCTURE. THE CONTRACTOR SHALL SUBMIT SHORING SHOP DRAWINGS, SEALED BY AN ONTARIO P.E.N.C., FOR REVIEW AND APPROVAL BY CONSULTANTS. THE CONTRACTOR IS STRONGLY ENCOURAGED TO VERIFY LOADBEARING NATURE OF ANY BUILDING ELEMENT SHOULD THEY HAVE DOUBTS OR WHERE NOT CLEARLY SPECIFIED ON CONTRACT DOCUMENTS.
- PRIOR TO DEMOLITION, THE CONTRACTOR MUST RECORD EXISTING CONDITIONS WITH PHOTOS AND MAKE AVAILABLE TO THE CONSULTANTS. REPORT ANY DISCOVERED EXISTING DAMAGED/CUT/BENT/ETC. BUILDING ELEMENTS TO THE CONSULTANTS FOR REVIEW.

TEMPORARY SHORING NOTE:
CONTRACTOR MUST REFER TO
PLAN NOTE #10 PRIOR TO
COMMENCING ANY DEMOLITION



ELEVATION D1 S1.1
1 : 25

GENERAL NOTE:
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2	07.03.2025	ISSUED FOR COORDINATION	AV

St. Mark CES Addition

240 Autumn Hill Crescent
Kitchener, ON N2N 1K8

PART EXISTING ROOF FRAMING PLAN

scale: As indicated

drawn by:	AV
reviewed by:	PR
job number:	25158
plot date:	2026-04-23 1:50:06 PM
drawing number:	

S1.3

STRUCTURAL DESIGN LOAD DATA

LOAD AREA #	FLOOR / ROOF LOCATION	PLAN DRAWING REFERENCE	TYPE OF LOAD			
			DEAD		LIVE	
			CONSTRUCTION	VALUE (kPa)	TYPE	VALUE (kPa)
1	ROOF - ALL OTHER AREAS	S1.2	ROOFING ALLOWANCE M+E ALLOWANCE CEILING ALLOWANCE 38mm METAL DECK STRUCTURAL STEEL ALLOW FOR PAVERS	0.55 0.25 0.30 0.15 1.50 1.50 AS SHOWN	BASIC SNOW ALLOW FOR SNOW DRIFT	2.30 AS SHOWN ₂
2	GYM ROOF	S1.2B	ROOFING ALLOWANCE M+E ALLOWANCE 38mm METAL DECK STRUCTURAL STEEL	0.55 0.25 0.15 0.30 1.25	OCCUPANCY ALLOW FOR SNOW DRIFT	2.30 AS SHOWN ₂
3	SECOND FLOOR CLASSROOMS, OFFICES AND WASHROOMS	S1.1	FLOORING ALLOWANCE M+E ALLOWANCE CEILING ALLOWANCE 254mm HOLLOWCORE 50mm CONCRETE TOPPING STRUCTURAL STEEL PARTITION ALLOWANCE	0.30 0.30 0.30 3.60 1.20 0.30 1.00 7.00	OCCUPANCY	2.40
4	SECOND FLOOR ALL OTHER AREAS	S1.1A-S1.1B	FLOORING ALLOWANCE M+E ALLOWANCE CEILING ALLOWANCE 254mm HOLLOWCORE 50mm CONCRETE TOPPING STRUCTURAL STEEL PARTITION ALLOWANCE	0.30 0.30 0.30 3.60 1.20 0.30 1.00 7.00	OCCUPANCY	4.80
5	SECOND FLOOR ROOF (LOWER ROOF)	S1.1A-S1.1B	ROOFING ALLOWANCE M+E ALLOWANCE CEILING ALLOWANCE 38mm METAL DECK STRUCTURAL STEEL ALLOW FOR PAVERS	0.50 0.30 0.30 0.15 0.25 1.50 1.50 AS SHOWN	BASIC SNOW ALLOW FOR SNOW DRIFT	2.30 AS SHOWN ₂
6	STAIRS	S1.1-S1.4	FLOORING ALLOWANCE OR TILE/50mm CONC TOPPING M+E ALLOWANCE CEILING ALLOWANCE 254mm SOLIDCAST NOTE: LEVEL 2 LANDINGS HAVE TILE/50mm TOPPING, MID-LANDINGS DO NOT HAVE TOPPING. REFER TO ARCHITECTURAL FOR MORE DETAIL.	0.40/1.20 0.30 0.30 6.00 7.00(7.80)	OCCUPANCY	4.80
7	CONCRETE FILLED STEEL STAIRS	S1.1	51mm CONCRETE ON STEEL PLAN STRUCTURAL STEEL	1.20 0.30 1.50	OCCUPANCY	4.80

OTHER ENVIRONMENTAL LOADS	WIND PRESSURE	SNOW & RAIN	SEISMIC DATA	SITE CLASS: C
	$q_{30} = 0.37 \text{ kPa}$ $w = 1.15$	$S_s = 2.00 \text{ kPa}$ $S_r = 0.40 \text{ kPa}$ $I_s = 1.15$	$S_u(0.2) = 0.208$ $S_u(0.5) = 0.141$ $S_u(1.0) = 0.0787$ $S_u(2.0) = 0.0377$ PGA = 0.1 $I_e = 1.3$	SEISMIC CATEGORY = SC2 (SEE NOTE 6) M+E SEISMIC RESTRAINT = NOT REQ'D METHOD OF ANALYSIS: EQUIVALENT STATIC FORCE PROCEDURE

- NOTES:
- ALL LOADS SHOWN ABOVE APPLY TO THE AREAS OF THE BUILDING AS INDICATED (REFERENCE TO ARCHITECTURAL PLANS IS NECESSARY TO PROPERLY READ THIS TABLE), AND ARE BASED ON AND INTERPRETED FROM THE LATEST VERSION OF THE ONTARIO BUILDING CODE. USE THESE LOADS IN DESIGN OF BUILDING COMPONENTS AS REQUIRED.
 - ADDITIONAL SNOW PILE UP IS INCLUDED AS A "DRIFT" DIAGRAM ON ROOF FRAMING PLAN. SNOW DRIFT LOADS ARE IN ADDITION TO THE BASIC SNOW LOADS INDICATED. OVERLAPPING SNOW DRIFT LOADS ARE CUMULATIVE.
 - DEAD LOAD SHOWN IN TABLE IS EXCLUSIVE OF M+E EQUIPMENT. MECHANICAL EQUIPMENT PLAN SIZES AND LOADS ARE SHOWN ON STRUCTURAL PLAN BASED ON THE LATEST INFORMATION AVAILABLE TO THE CONSULTANTS. REPORT ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS TO THE CONSULTANTS FOR REVIEW.
 - SEE MECHANICAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR MECHANICAL EQUIPMENT LOCATIONS AND LOADS.
 - DEAD LOAD SHOWN IN TABLE IS EXCLUSIVE OF MASONRY WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR MASONRY WALL TYPE AND LOCATIONS.
 - THE "SEISMIC CATEGORY" VALUE LISTED ABOVE SHALL BE USED ONLY IN REFERENCE TO THESE STRUCTURAL DOCUMENTS. ALL OTHER CONSULTANTS (NOT STRUCTURAL) MUST VERIFY THIS "SEISMIC CATEGORY" PRIOR TO USING FOR THEIR OWN PURPOSES.

- NOTES:
- UNLESS NOTED OTHERWISE IN SECTIONS AND DETAILS, PROVIDE DOWELS FROM STRIP FOOTING TO CONCRETE FOUNDATION WALL. DOWELS SHOULD MATCH VERTICAL WALL REINFORCING IN SIZE AND SPACING. THE LENGTHS OF DOWELS IN BOTH STRIP FOOTING & CONCRETE WALL SHOULD BE CLASS "A" SPLICE LENGTH MINIMUM.
 - SEE TYPICAL DETAIL 3.01 FOR CLEAR COVER TO REINFORCING BARS IN CONCRETE WALLS AND FOOTINGS.
 - FOR WALLS POURED IN MULTIPLE LIFTS, PROVIDE VERTICAL DOWELS FROM LOWER TO UPPER LIFT OF CONCRETE WALL TO MATCH VERTICAL REINFORCING IN UPPER LIFT.
 - FOR WALLS POURED IN MULTIPLE LIFTS, PROVIDE 2-20M CONT. TOP AND BOTTOM OF EACH LIFT
 - FOR WALL TYPES INDICATED, PLACE REINFORCING AND TIES AS SHOWN IN TYPICAL DETAIL 3.06 FOR TIED CONCRETE PIERS. PIER TYPE REINFORCING TO EXTEND FROM FOUNDATION WALL BELOW OR LOWER LIFT TO UPPER LIFT. PROVIDE TIED DOWELS TO MATCH PIER REINFORCING IN FOUNDATION WALL OR LOWER LIFT.
 - OUTSIDE FACE IS THE FACE OF THE WALL TOWARD TO THE EXTERIOR OF THE STRUCTURE (i.e. FACING OUTSIDE OR EXTERIOR AGAINST BACKFILL) OR IS THE LOW SIDE OF A RETAINING WALL.
 - SEE STRUCTURAL SPECIFICATION FOR REQUIRED MINIMUM CONCRETE STRENGTHS, SLUMPS, AND AIR CONTENTS.
 - TYPICAL, PROVIDE U-SHAPE BARS TO MATCH HORIZONTAL REINFORCING BAR AT WALL OPENING AND END OF WALL LOCATIONS
- CLASS 'A' TENSION LAP

CLASS 'A' TENSION LAP
- FOR SHEARWALLS, ELEVATOR SHAFT WALLS, STAIR SHAFT WALLS WITH FULL HEIGHT CONCENTRATED BARS + TIES AT ENDS AND CORNERS, WHERE A STEEL BEARING PLATE EXISTS AT THE END OR CORNER SOMEWHERE ALONG THE HEIGHT OF THE WALL, OFFSET THE CONCENTRATED BARS TO ALLOW TO THEM TO RUN UNIMPEDED FOR FULL HEIGHT OF WALL (FOOTING TO TOP).
- TYP. w/ NO B.P.L. FOR FULL HEIGHT WALL

TYP. w/ B.P.L. WITHIN HEIGHT OF WALL
10. ABBREVIATIONS:
- | | | |
|----------------------------------|----------------------------------|-----------------------------|
| V.I.F. = VERTICAL INSIDE FACE | V.O.F. = VERTICAL OUTSIDE FACE | T.U.L. = TOP UPPER LAYER |
| H.I.F. = HORIZONTAL INSIDE FACE | H.O.F. = HORIZONTAL OUTSIDE FACE | T.L.L. = TOP LOWER LAYER |
| V.E.F. = VERTICAL EACH FACE | H.E.F. = HORIZONTAL EACH FACE | B.U.L. = BOTTOM UPPER LAYER |
| E.W.I.F. = EACH WAY INSIDE FACE | E.W.O.F. = EACH WAY OUTSIDE FACE | B.L.L. = BOTTOM LOWER LAYER |
| E.W.O.F. = EACH WAY OUTSIDE FACE | M.E.W. = MIDDLE EACH WAY | |

FOUNDATION WALL AND STRIP FOOTING SCHEDULE

WALL MARK	WALL WIDTH (mm)	WALL REINFORCING	STRIP FOOTING SIZE (mm)	STRIP FOOTING REINFORCING	COMMENTS
FW200-A	200	-2-20M CONT. T&B	600x300dp	-15M @ 600 o/c DOWELS x 600 LONG STAGGERED	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING
FW200-B	200	-2-20M CONT. T&B	SEE PLAN FOOTING: 35MPa	SEE PLAN -15M @ 600 o/c DOWELS x 600 LONG STAGGERED	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING
FW190-B	190	-2-20M CONT. T&B	1200x300dp	-4-15M CONT. B.U.L. -15M @ 400 o/c B.L.L. TRANSVERSE (HOOKED) -15M @ 600 o/c DOWELS x 600 LONG STAGGERED	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING
FW190-C	190	-2-20M CONT. T&B	1800x400dp	-8-15M CONT. B.U.L. -15M @ 300 o/c B.L.L. TRANSVERSE (HOOKED) -15M @ 600 o/c DOWELS x 600 LONG STAGGERED	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING
FW190-D	190	-2-20M CONT. T&B	SEE PLAN FOOTING: 35MPa	SEE PLAN - HOOKED DOWELS (15M @ 300 V.E.F.)	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING
FW240-A	240	-2-20M CONT. T&B	SEE PLAN FOOTING: 35MPa	SEE PLAN - HOOKED DOWELS (15M @ 300 V.E.F.)	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING
FW240-B	240	-2-20M CONT. T&B -15M @ 150 V.O.F., 15M @ 150 V.I.F. -15M @ 150 H.E.F. - HOOKED DOWELS FROM FOOTING. SEE SECTION FOR MORE DETAIL.	1200x400dp SEE PLAN FOR OFFSET L-SHAPED FOUNDATION	-5-15M CONT. B.U.L. + T.L.L. -15M @ 150 o/c B.L.L. + T.U.L. TRANSVERSE (HOOKED) -15M @ 150 o/c V.O.F. HOOKED DOWELS DOWEL TO ACHIEVE FULL CLASS 'B' LAP WITH B.U.L. BARS -15M @ 200 o/c V.I.F. DOWEL x 600 LONG	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING
FW240-C	240	-2-20M CONT. T&B	1200x400dp	-5-15M CONT. B.U.L. -15M @ 400 o/c B.L.L. TRANSVERSE (HOOKED) -15M @ 600 o/c DOWELS x 600 LONG STAGGERED	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING
FW240-D	240	-2-20M CONT. T&B	1800x400dp	-8-15M CONT. B.U.L. -15M @ 300 o/c B.L.L. TRANSVERSE (HOOKED) -15M @ 600 o/c DOWELS x 600 LONG STAGGERED	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING
FW290-A	290	-2-20M CONT. T&B	800x300dp	-15M @ 600 o/c DOWELS x 600 LONG STAGGERED	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING
FW355-A	355	-2-20M CONT. T&B - SEE PLAN FOR CONCRETE COLUMN LOCATIONS. BARS TO EXTEND DOWN WITH HOOKED DOWELS INTO FOOTING	1200x400dp	-5-15M CONT. B.U.L. -15M @ 400 o/c B.L.L. TRANSVERSE (HOOKED) -15M @ 600 o/c DOWELS x 600 LONG STAGGERED - HOOKED DOWELS TO MATCH COLUMN REINFORCING	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING
FW370-A		-2-20M CONT. T&B -130 UPSTAND: 15M@300 VERTICAL MIDDLE + 4-10M HORIZONTALS @ 200mm o/c MAX (600 TALL MAX) -190 UPSTAND: 15M@300 VERTICAL MIDDLE + 3-10M@200mm o/c MAX	600x300dp	-15M @ 600 o/c DOWELS x 600 LONG STAGGERED	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING - REFER TO ARCH. DWGS. FOR EXTENTS AND ELEVATIONS OF BRICK LEDGES
FW370-B		-2-20M CONT. T&B -130 UPSTAND: 15M@300 VERTICAL MIDDLE + 4-10M HORIZONTALS @ 200mm o/c MAX (600 TALL MAX) -190 UPSTAND: 15M@300 VERTICAL MIDDLE + 3-10M@200mm o/c MAX	800x300dp	-15M @ 600 o/c DOWELS x 600 LONG STAGGERED	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING - SEE SECTION '41' FOR MORE INFO - REFER TO ARCH. DWGS. FOR EXTENTS AND ELEVATIONS OF BRICK LEDGES
FW370-C		-2-20M CONT. T&B -130 UPSTAND: 15M@300 VERTICAL MIDDLE + 4-10M HORIZONTALS @ 200mm o/c MAX (600 TALL MAX) -190 UPSTAND: 15M@300 VERTICAL MIDDLE + 3-10M@200mm o/c MAX	1200x300dp	-4-15M CONT. B.U.L. -15M @ 400 o/c B.L.L. TRANSVERSE (HOOKED) -15M @ 600 o/c DOWELS x 600 LONG STAGGERED	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING - REFER TO ARCH. DWGS. FOR EXTENTS AND ELEVATIONS OF BRICK LEDGES
FW370-D		-2-20M CONT. T&B -20M @ 150 o/c V.I.F. -15M @ 300 o/c V.O.F. -20M @ 200 o/c H.I.F. -15M @ 300 o/c H.O.F. -4-15M VERT. EACH END/CORNER + 10M TIES @ 200mm o/c -130 UPSTAND: 15M@300 VERTICAL MIDDLE + 4-10M HORIZONTALS @ 200mm o/c MAX (600 TALL MAX) -190 UPSTAND: 20M@150 V.I.F.+ 15M@200 V.O.F. (LENGTH VARIES) + 15M@200 H.E.F.	800x300dp	-3-15M CONT. B.U.L. -15M @ 400 o/c B.L.L. TRANSVERSE (HOOKED) - HOOKED DOWELS TO MATCH WALL REINFORCING	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING - SEE SECTION '50' FOR MORE INFO - REFER TO ARCH. DWGS. FOR EXTENTS AND ELEVATIONS OF BRICK LEDGES ARCHITECTURAL CONCRETE FINISH ON EXPOSED INTERIOR FACE. SEE ARCHITECTURAL & SPECIFICATIONS
FW370-E		-2-20M CONT. T&B -20M @ 150 o/c V.I.F. -15M @ 300 o/c V.O.F. -15M @ 200 o/c H.I.F. -15M @ 300 o/c H.O.F. -4-15M VERT. EACH END/CORNER + 10M TIES @ 200mm o/c -130 UPSTAND: 15M@300 VERTICAL MIDDLE + 4-10M HORIZONTALS @ 200mm o/c MAX (600 TALL MAX) -190 UPSTAND: 20M@150 V.I.F.+ 15M@200 V.O.F. (LENGTH VARIES) + 15M@200 H.E.F.	SEE PLAN FOOTING: 35MPa	SEE PLAN - HOOKED DOWELS TO MATCH WALL REINFORCING	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING - WHERE FROST SLAB TIES INTO 130 UPSTAND, CONTINUE VOF+HOF UP AS SHOWN IN SECTION '60'
FW370-F		-2-20M CONT. T&B -DOWELS: 25M @ 150 o/c V.O.F (SEE SECTION), 25M @ 300 o/c ABOVE -20M @ 150 o/c V.I.F. -15M @ 200 o/c H.O.F. -20M @ 150 o/c H.I.F. -4-25M VERT. EACH END/CORNER + 10M TIES @ 200mm o/c -130 UPSTAND: 15M@300 VERTICAL MIDDLE + 4-10M HORIZONTALS @ 200mm o/c MAX (600 TALL MAX) -190 UPSTAND: 15M@200 V.I.F.+ 15M@200 V.O.F. + 15M@200 H.E.F.	SEE PLAN FOOTING: 35MPa	SEE PLAN - HOOKED DOWELS TO MATCH WALL REINFORCING	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING - SEE SECTION '71' FOR MORE INFO - REFER TO ARCH. DWGS. FOR EXTENTS AND ELEVATIONS OF BRICK LEDGES
FW370-G		-2-20M CONT. T&B -130 UPSTAND: 15M@300 VERTICAL MIDDLE + 4-10M HORIZONTALS @ 200mm o/c MAX (600 TALL MAX) -190 UPSTAND: 15M@300 VERTICAL MIDDLE + 3-10M@200mm o/c MAX	SEE PLAN FOOTING: 35MPa	SEE PLAN - HOOKED DOWELS TO MATCH WALL REINFORCING	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING
FW470-A		-2-20M CONT. T&B -130 UPSTAND: 15M@300 VERTICAL MIDDLE + 4-10M HORIZONTALS @ 200mm o/c MAX (600 TALL MAX) -290 UPSTAND: 15M@300 V.E.F.+ 3-10M@200mm o/c MAX H.E.F.	800x300dp	-15M @ 600 o/c DOWELS x 600 LONG STAGGERED	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING
RW420-A		-2-20M CONT. T&B -DOWELS: 25M @ 150 o/c V.O.F (SEE SECTION), 25M @ 300 o/c ABOVE -15M @ 200 o/c V.I.F. -15M @ 200 o/c H.O.F. -4-25M VERT. EACH END/CORNER + 10M TIES @ 200mm o/c -130 UPSTAND: 15M@300 VERTICAL MIDDLE + 4-10M HORIZONTALS @ 200mm o/c MAX (600 TALL MAX) -240 UPSTAND: 15M@200 V.I.F.+ 15M@200 V.O.F. (LENGTH VARIES) + 15M@200 H.E.F.	4500x900dp TOE: 1280 HEEL: 2800 KEY: 762x750dp FOOTING: 35MPa	-25M @ 200 o/c T.U.L. (HOOKED) -20M @ 150 CONT. T.L.L. (28 BARS MIN.) -20M @ 150 CONT. B.U.L. (10 BARS MIN.) -25M @ 150 o/c DOWELS B.L.L. (REFER TO SECTION) -25M @ 200 FACE STEEL AT PERIMETER OF FOOTINGS	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING - SEE SECTION '10' FOR MORE INFO ARCHITECTURAL CONCRETE FINISH ON EXPOSED INTERIOR FACE. SEE ARCHITECTURAL & SPECIFICATIONS
RW420-B		-2-20M CONT. T&B -20M @ 200 o/c V.O.F. -15M @ 200 o/c V.I.F. -15M @ 200 o/c H.E.F. -4-20M VERT. EACH END/CORNER + 10M TIES @ 200mm o/c -130 UPSTAND: 15M@300 VERTICAL MIDDLE + 4-10M HORIZONTALS @ 200mm o/c MAX (600 TALL MAX) -240 UPSTAND: 15M@200 V.I.F.+ 15M@200 V.O.F. + 15M@200 H.E.F.	2800x400dp TOE: 280 HEEL: 1900 FOOTING: 35MPa	-20M @ 200 o/c T.U.L. (HOOKED) -15M @ 200 CONT. T.L.L. (10 BARS MIN.) -15M @ 200 CONT. B.U.L. (3 BARS MIN.) -20M @ 200 o/c DOWELS B.L.L. (REFER TO SECTION)	- REFER TO ALL SECTIONS FOR ANY ADDITIONAL REINFORCING - SEE SECTION '30' FOR MORE INFO ARCHITECTURAL CONCRETE FINISH ON EXPOSED INTERIOR FACE. SEE ARCHITECTURAL & SPECIFICATIONS

SEE NOTES ADJACENT TO SCHEDULE

architects

1480 Richmond St. Suite 305
London, ON N6G 1H4
hello@architects.ca | (519) 473-6641
www.architects.ca

DEI Consulting Engineers
ELECTRICAL, ELECTRICAL, ARCHITECTS

55 Northland Road
Waterloo, ON N2B 1Y8
(519) 725-3555
deiasociates.ca

V&S STRUCTURAL ENGINEERS

1108 Dundas St. Suite 104
London, ON N6W 3A7
(519) 433-4661
vands.com

BOH KOUROS ARCHITECTURE

388 Oxford Street East
London, ON N6A 1V7
(519) 661-3322
bka.ca

MTE

520 Brimingham Centre Drive
Kitchener, ON N2B 3J9
(519) 743-6500
mte85.com

35 Weber Street West
Kitchener, ON N2B 2Z1
(519) 578-8660
www.wcsb.ca

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SCHEDULES

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CONCRETE BLOCK WALL SCHEDULE			
WALL MARK	WALL WIDTH (mm)	WALL REINFORCING	COMMENTS
MW140A-20	140	1-15M VERT. @ 600mm o/c 2-15M VERT. AT EACH END, BOTH SIDES OF OPENINGS AND CORNERS OF WALLS. OFFSET BARS 1 CORE FOR ENTIRE HEIGHT OF BUILDING WHERE BEARING PLATE IS ON END OF TYP. WALL (E.G. TYP. CORRIDOR BEAM BEARING)	- SEE MW190B-20 FOR BLOCK DETAILS
MW190A-20 MW190Ax-20	190	1-15M VERT. @ 1200mm o/c 2-15M VERT. AT EACH END, BOTH SIDES OF OPENINGS AND CORNERS OF WALLS. OFFSET BARS 1 CORE FOR ENTIRE HEIGHT OF BUILDING WHERE BEARING PLATE IS ON END OF TYP. WALL (E.G. TYP. CORRIDOR BEAM BEARING) 2-COURSE DEEP (400DP) BOND BEAM AT TOP OF WALL c/w 2-20 T&B -SEE ELEVATIONS AND SECTIONS FOR LOCATIONS OF ADDITIONAL BOND BEAMS REQUIRED -MW190Ax-20 ONLY: SEE SCHEDULE NOTE #12 FOR ADDITIONAL FIRE RATING REQUIREMENTS	BEARING PLATE SHIFTS VERT. BARS ONE CORE END/CORNER/ OPENING VERT. BARS TYP. VERT. BARS
MW190B-20	190	1-15M VERT. @ 600mm o/c 2-15M VERT. AT EACH END, BOTH SIDES OF OPENINGS AND CORNERS OF WALLS. OFFSET BARS 1 CORE FOR ENTIRE HEIGHT OF BUILDING WHERE BEARING PLATE IS ON END OF TYP. WALL (E.G. TYP. CORRIDOR BEAM BEARING) 2-COURSE DEEP (400DP) BOND BEAM AT TOP OF WALL c/w 2-20 T&B -SEE ELEVATIONS AND SECTIONS FOR LOCATIONS OF ADDITIONAL BOND BEAMS REQUIRED	BEARING PLATE SHIFTS VERT. BARS ONE CORE END/CORNER/ OPENING VERT. BARS TYP. VERT. BARS
MW190C-20	190	1-15M VERT. @ 1200mm o/c FULLY GROUDED 2-15M VERT. AT EACH END, BOTH SIDES OF OPENINGS AND CORNERS OF WALLS. OFFSET BARS 1 CORE FOR ENTIRE HEIGHT OF BUILDING WHERE BEARING PLATE IS ON END OF TYP. WALL (E.G. TYP. CORRIDOR BEAM BEARING) 2-COURSE DEEP (400DP) BOND BEAM AT TOP OF WALL c/w 2-20 T&B -SEE ELEVATIONS AND SECTIONS FOR LOCATIONS OF ADDITIONAL BOND BEAMS REQUIRED	BEARING PLATE SHIFTS VERT. BARS ONE CORE END/CORNER/ OPENING VERT. BARS TYP. VERT. BARS
MW190D-20	190	1-15M VERT. @ 600mm o/c FULLY GROUDED 2-15M VERT. AT EACH END, BOTH SIDES OF OPENINGS AND CORNERS OF WALLS. OFFSET BARS 1 CORE FOR ENTIRE HEIGHT OF BUILDING WHERE BEARING PLATE IS ON END OF TYP. WALL (E.G. TYP. CORRIDOR BEAM BEARING) 2-COURSE DEEP (400DP) BOND BEAM AT TOP OF WALL c/w 2-20 T&B -SEE ELEVATIONS AND SECTIONS FOR LOCATIONS OF ADDITIONAL BOND BEAMS REQUIRED	BEARING PLATE SHIFTS VERT. BARS ONE CORE END/CORNER/ OPENING VERT. BARS TYP. VERT. BARS
MW190E-20	190	1-15M VERT. @ 200mm o/c FULLY GROUDED 2-15M VERT. AT EACH END, BOTH SIDES OF OPENINGS AND CORNERS OF WALLS. OFFSET BARS 1 CORE FOR ENTIRE HEIGHT OF BUILDING WHERE BEARING PLATE IS ON END OF TYP. WALL (E.G. TYP. CORRIDOR BEAM BEARING) 2-COURSE DEEP (400DP) BOND BEAM AT TOP OF WALL c/w 2-20 T&B -SEE ELEVATIONS AND SECTIONS FOR LOCATIONS OF ADDITIONAL BOND BEAMS REQUIRED	BEARING PLATE SHIFTS VERT. BARS ONE CORE END/CORNER/ OPENING VERT. BARS TYP. VERT. BARS
MW190F-20 MW190Fx-20	190	1-15M VERT. @ 1200mm o/c 2-15M VERT. AT EACH END, BOTH SIDES OF OPENINGS AND CORNERS OF WALLS. OFFSET BARS 1 CORE FOR ENTIRE HEIGHT OF BUILDING WHERE BEARING PLATE IS ON END OF TYP. WALL (E.G. TYP. CORRIDOR BEAM BEARING) 2-COURSE DEEP (400DP) BOND BEAM AT TOP OF WALL c/w 2-20 T&B 1-COURSE DEEP (200DP) BOND BEAMS c/w 1-15M CONT. EQUALLY SPACED VERTICALLY AT APPROXIMATE 1/3-POINTS OF WALL HEIGHT -MW190Fx-20 ONLY: SEE SCHEDULE NOTE #12 FOR ADDITIONAL FIRE RATING REQUIREMENTS	BEARING PLATE SHIFTS VERT. BARS ONE CORE END/CORNER/ OPENING VERT. BARS TYP. VERT. BARS
MW190G-20	190	1-15M VERT. @ 200mm o/c FULLY GROUDED 2-15M VERT. AT EACH END, BOTH SIDES OF OPENINGS AND CORNERS OF WALLS. OFFSET BARS 1 CORE FOR ENTIRE HEIGHT OF BUILDING WHERE BEARING PLATE IS ON END OF TYP. WALL (E.G. TYP. CORRIDOR BEAM BEARING) 2-COURSE DEEP (400DP) BOND BEAM AT TOP OF WALL c/w 2-20 T&B 1-COURSE DEEP (200DP) BOND BEAMS c/w 1-15M CONT. EQUALLY SPACED VERTICALLY AT APPROXIMATE 1/3-POINTS OF WALL HEIGHT	BEARING PLATE SHIFTS VERT. BARS ONE CORE END/CORNER/ OPENING VERT. BARS TYP. VERT. BARS
MW240A-20	240	1-15M VERT. @ 600mm o/c 2-15M VERT. AT EACH END, BOTH SIDES OF OPENINGS AND CORNERS OF WALLS. OFFSET BARS 1 CORE FOR ENTIRE HEIGHT OF BUILDING WHERE BEARING PLATE IS ON END OF TYP. WALL (E.G. TYP. CORRIDOR BEAM BEARING) 2-COURSE DEEP (400DP) BOND BEAM AT TOP OF WALL c/w 2-20 T&B 1-COURSE DEEP (200DP) BOND BEAMS c/w 2-15M CONT. COORDINATE WITH ELEVATOR FABRICATOR FOR LOCATIONS OF BOND BEAMS FOR RAIL CONNECTIONS	BEARING PLATE SHIFTS VERT. BARS ONE CORE END/CORNER/ OPENING VERT. BARS TYP. VERT. BARS
MW240B-20	240	2-20M IN EACH CORE OF PIER -REFER TO NOTE #2. PLACE LADDER REINFORCING IN EVERY COURSE (200mm o/c) AT LOCATIONS BETWEEN ACOUSTIC BLOCK TO MATCH	1000 PIER OR SIM. (VARIES) ACOUSTIC OR STANDARD BLOCK BEYOND PIER
MW240C-20	240	1-15M VERT. @ 600mm o/c -REFER TO NOTE #2. PLACE LADDER REINFORCING IN EVERY COURSE (200mm o/c) AT LOCATIONS BETWEEN ACOUSTIC BLOCK TO MATCH -STACK PATTERN PLACEMENT AS REQUIRED BY ACOUSTIC BLOCK	ACOUSTIC BLOCK
MW240D-20	240	1-15M VERT. @ 600mm o/c 2-15M VERT. AT EACH END, BOTH SIDES OF OPENINGS AND CORNERS OF WALLS. OFFSET BARS 1 CORE FOR ENTIRE HEIGHT OF BUILDING WHERE BEARING PLATE IS ON END OF TYP. WALL (E.G. TYP. CORRIDOR BEAM BEARING) 2-COURSE DEEP (400DP) BOND BEAM AT TOP OF WALL c/w 2-20 T&B -SEE ELEVATIONS AND SECTIONS FOR LOCATIONS OF ADDITIONAL BOND BEAMS REQUIRED	BEARING PLATE SHIFTS VERT. BARS ONE CORE END/CORNER/ OPENING VERT. BARS TYP. VERT. BARS
MW240E-20	240	1-15M VERT. @ 600mm o/c FULLY GROUDED 2-15M VERT. AT EACH END, BOTH SIDES OF OPENINGS AND CORNERS OF WALLS. OFFSET BARS 1 CORE FOR ENTIRE HEIGHT OF BUILDING WHERE BEARING PLATE IS ON END OF TYP. WALL (E.G. TYP. CORRIDOR BEAM BEARING) 2-COURSE DEEP (400DP) BOND BEAM AT TOP OF WALL c/w 2-20 T&B -SEE ELEVATIONS AND SECTIONS FOR LOCATIONS OF ADDITIONAL BOND BEAMS REQUIRED	BEARING PLATE SHIFTS VERT. BARS ONE CORE END/CORNER/ OPENING VERT. BARS TYP. VERT. BARS
MW290A-30	290	2-25M IN EACH CORE OF PIER -REFER TO NOTE #2. PLACE LADDER REINFORCING IN EVERY COURSE (200mm o/c) AT LOCATIONS BETWEEN ACOUSTIC BLOCK TO MATCH	1000 PIER OR SIM. (VARIES) ACOUSTIC OR STANDARD BLOCK BEYOND PIER
MW290B-30	290	1-15M VERT. @ 400mm o/c -REFER TO NOTE #2. PLACE LADDER REINFORCING IN EVERY COURSE (200mm o/c) AT LOCATIONS BETWEEN ACOUSTIC BLOCK TO MATCH -STACK PATTERN PLACEMENT AS REQUIRED BY ACOUSTIC BLOCK -SEE SCHEDULE NOTE #12 FOR ADDITIONAL FIRE RATING REQUIREMENTS	ACOUSTIC BLOCK
MW290C-30	290	1-15M VERT. @ 400mm o/c 2-15M VERT. AT EACH END, BOTH SIDES OF OPENINGS AND CORNERS OF WALLS. OFFSET BARS 1 CORE FOR ENTIRE HEIGHT OF BUILDING WHERE BEARING PLATE IS ON END OF TYP. WALL (E.G. TYP. CORRIDOR BEAM BEARING) 2-COURSE DEEP (400DP) BOND BEAM AT TOP OF WALL c/w 2-20 T&B -SEE ELEVATIONS AND SECTIONS FOR LOCATIONS OF ADDITIONAL BOND BEAMS REQUIRED	BEARING PLATE SHIFTS VERT. BARS ONE CORE END/CORNER/ OPENING VERT. BARS TYP. VERT. BARS

SEE NOTES ADJACENT TO SCHEDULE

STEEL BEARING PLATE SCHEDULE				
PLATE MARK	PLATE SIZE(mm)	ANCHOR BOLTS	ANCHOR SPACING	COMMENTS
BP1	180x20x200L	2-13mmØ x 300 LONG + 50 HOOK BOLTS	100	
BP2	180x25x300L	2-13mmØ x 300 LONG + 50 HOOK BOLTS	200	-COORDINATE ANCHOR POSITION WITH BLOCK WALL LAYOUT -BP2*: SEE PLAN FOR LOCATION & ORIENTATION
BP3	180x25x400L + 400x75x12 ROCKER PLATE	4-13mmØ x 300 LONG + 50 HOOK BOLTS	200	-PROVIDE 1-12mm STIFFENER ON EACH SIDE OF BEAM WEB AT ROCKER PLATE, TYP.
BP4	230x20x200L	2-13mmØ x 300 LONG + 50 HOOK BOLTS	100	
BP5	230x20x240L	ROOF: 1-16mmØ x 500 LONG + 50 HOOK BOLTS LEVEL 2: 2-13mmØ x 300 LONG + 50 HOOK BOLTS	ROOF: 100 LEVEL 2: 100	
BP6	230x25x400L + 400x75x12 ROCKER PLATE	ROOF: 4-13mmØ x 500 LONG + 50 HOOK BOLTS LEVEL 2: 4-13mmØ x 300 LONG + 50 HOOK BOLTS	200	-PROVIDE 1-12mm STIFFENER ON EACH SIDE OF BEAM WEB AT ROCKER PLATE, TYP.
BP7	280x25x290L	2-13mmØ x 300 LONG + 50 HOOK BOLTS	100	
BP8	130x20x200L	2-13mmØ x 300 LONG + 50 HOOK BOLTS	100	
BP9	150x20x150L	1-13mmØ x 300 LONG + 50 HOOK BOLTS		
BP10	130x25x400L + 400x75x12 ROCKER PLATE	2-13mmØ x 300 LONG + 50 HOOK BOLTS	200	-PROVIDE 1-12mm STIFFENER ON EACH SIDE OF BEAM WEB AT ROCKER PLATE, TYP.

NOTES:

- STEEL BEARING PLATES TO BE FABRICATED BY STRUCTURAL STEEL CONTRACTOR AND PLACED BY CONCRETE FORMING CONTRACTOR (CONCRETE WALL, BEAM OR COLUMN) OR THE MASONRY CONTRACTOR (CONCRETE BLOCK WALL).
- LOCATION AND ELEVATION OF BEARING PLATES TO BE COORDINATED WITH STRUCTURAL STEEL SHOP DRAWINGS. BEAM OR JOIST TO BE SUPPORTED ON THE PLATE TO BE CENTRED ALONG THE LENGTH OF THE PLATE U.N.O.
- DIMENSION OF PLATE NOTED IN PLATE SIZE COLUMN AS 'L' TO BE PLACED ALONG THE LENGTH OF THE WALL, UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.
- BEAM FLANGE OR JOIST SHOE TO BE FIELD WELDED DOWN TO TOP OF BEARING PLATE USING A MINIMUM 6mm FILLET WELD EACH SIDE OF BEAM/JOIST SHOE FOR THE ENTIRE LENGTH OF BEARING.
- FOR BEARING PLATES PLACED ON CONCRETE BLOCK WALLS - GROUT SOLID THE CORES OF THE BLOCKS CONTAINING THE ANCHOR BOLTS OF THE PLATES CONTINUOUS TO THE TOP OF THE FOUNDATION WALL. GROUT SOLID THE BEAM/JOIST POCKETS AFTER FIELD WELDING
- ANCHOR BOLTS SHOWN TO BE WELDED TO THE UNDERSIDE OF THE BEARING PLATE FOR TENSILE CAPACITY OF THE BOLT.

CONCRETE BLOCK WALL SCHEDULE NOTES:

- ALL MASONRY WALLS SHOWN ON PLAN AS THUS ARE LOAD BEARING (GRAVITY AND/OR LATERAL).
- PROVIDE 9 GAUGE (3.66mm MIN.) LADDER TYPE REINFORCING IN EVERY OTHER HORIZONTAL COURSE (@ 400mm o/c MAX. VERTICAL) UNLESS NOTED OTHERWISE IN SCHEDULE COMMENTS.
- PROVIDE 2-20M VERTICAL IN CORE ADJACENT TO EACH SIDE OF ROUGH OPENINGS OR IN CORE ADJACENT TO BEARING PLATE OF STEEL LINTEL. VERTICAL REINFORCING IS TO BE INSTALLED CONT. FROM CONCRETE WALL TO UNDERSIDE OF BEAM/STEEL DECK.
- FULLY GROUT ALL REINFORCED CORES. (SEE NOTE #8)
- FILL ALL CORES IN PIERS LESS THAN 600mm IN WIDTH SOLID WITH GROUT IN ADDITION TO THAT REQUIRED BY NOTE #3.
- GROUT SOLID ALL CORES BELOW THE BEARING POINT OF ALL BEAMS, JOISTS OR LINTELS CONT. TO THE FOUNDATION.
- PROVIDE MECHANICAL CONNECTION BETWEEN LOWER AND UPPER LIFTS OF VERTICAL REINFORCING.
- ALL GROUT SHALL HAVE MINIMUM 28-DAY STRENGTH OF 15MPa WITH 10mm MAX. AGGREGATE SIZE AND 225mm ± 25mm SLUMP. ALL GROUTING TO CONFORM TO CSA/CAN3 A371-M84. PLACE GROUT IN "LOW LIFTS" (NOT MORE THAN 1500mm VERTICAL).
- ENSURE ALL LOAD BEARING CONCRETE BLOCK WALLS ARE BUILT TIGHT TO STEEL BUILDING COLUMNS. FILL ANY GAPS BETWEEN END OF CONCRETE BLOCK WALL AND FACE OF COLUMN SOLID WITH GROUT.
- WALL TYPE NOTATION: MW190#-20: I.E. MASONRY WALL 190 BLOCK. REINFORCING PER LETTER "A" WITH 20MPa BLOCK.
- VERTICAL CONTROL JOINTS ARE DENOTED AS 'VCJ' ON PLAN AND ELEVATION. LOCATIONS SHOWN ARE SUGGESTED LAYOUTS. ALL CHANGES REQUIRED TO LAYOUT OF 'VCJ' MUST BE APPROVED BY VB&S PRIOR TO CONSTRUCTION. BOND BEAM REINFORCING IS TO BE CONTINUOUS THRU VCJ AT ALL LOCATIONS, U.N.O.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL FIRE RATING REQUIREMENTS IN MASONRY WALLS. DIFFERENT MASONRY WALLS AT DIFFERENT LOCATIONS REQUIRE VARYING FIRE RATINGS (E. 1 HOUR, 2 HOURS, ETC.). SEE BELOW AND SPECIFICATIONS FOR MORE DETAIL. ALL LOAD-BEARING BLOCK WALLS ARE INTENDED TO BE STANDARD HOLLOW BLOCKS EXCEPT FOR WALL MARKS WITH THE SUFFIX 'x' IN SCHEDULE ABOVE AND AS NOTED BELOW:

- 1-HOUR FIRE RATING**
- CAN BE ACHIEVED BY TYPE N CONCRETE FOR 140, 190, 240 AND 290 THICKNESS WITH STANDARD HOLLOW BLOCKS
- 2-HOUR FIRE RATING**
- STANDARD HOLLOW 190 BLOCK WALLS DO NOT ACHIEVE 2-HOUR RATING WITH TYPE N CONCRETE. 2-HOUR FIRE RATED WALLS REQUIRE TYPE L 1205 (LIGHT WEIGHT) CONCRETE OR REQUIRE SPECIAL HOLLOW BLOCKS THAT MEET 2-HOUR FIRE RATING REQUIREMENTS BASED ON BLOCK PHYSICAL DIMENSIONS. IF CONTRACTOR ELECTS TO AVOID USING LIGHTWEIGHT BLOCK, SPECIAL 2-HOUR FIRE RATED BLOCKS MUST BE COORDINATED WITH CONCRETE BLOCK SUPPLIER.
- 240 AND 290 BLOCK WALLS CAN ACHIEVE WITH TYPE N CONCRETE WITH STANDARD HOLLOW BLOCKS
- ACOUSTIC BLOCK**
- CONCRETE BLOCK SUPPLIER TO ENSURE SPECIFIED ACOUSTIC BLOCK ACHIEVED FIRE-RATING REQUIRED. (FOR EXAMPLE: PERMACON SOUNDBLOX RSC 30cm BLOCK (290) ACHIEVES A 2-HOUR FIRE RATING)

LOAD BEARING STEEL LINTEL SCHEDULE				
PLATE MARK	SIZE(mm)	BEARING PLATE	COMMENTS	
L1A	2-L152x89x9.5 LLV	BP1 U.N.O. SEE PLAN NOTE AND PLANS FOR ALL LOCATIONS	FOR ALL MECHANICAL OPENINGS AT ROOF: 600mm TO 1000mm WIDE, U.N.O. (N 190 BLOCK)	
L1B	2-L127x89x6 LLV	BP1 U.N.O. SEE PLAN NOTE AND PLANS FOR ALL LOCATIONS	FOR ALL MECHANICAL OPENINGS AT ROOF: 400mm TO 600mm WIDE, U.N.O. (N 190 BLOCK)	
L2A	2-L152x89x13 LLV	BP2 U.N.O. SEE PLAN NOTE AND PLANS FOR ALL LOCATIONS	FOR ALL MECHANICAL OPENINGS AT LEVEL 2: 600mm TO 1000mm WIDE, U.N.O. (N 190 BLOCK)	
L2B	2-L127x89x9 LLV	BP1 U.N.O. SEE PLAN NOTE AND PLANS FOR ALL LOCATIONS	FOR ALL MECHANICAL OPENINGS AT LEVEL 2: 400mm TO 600mm WIDE, U.N.O. (N 190 BLOCK)	
L3	W200x27 + PL190x6 T&B	BP1/BP2 AS SHOWN ON PLAN. SEE PLAN NOTE AND PLANS FOR ALL LOCATIONS		
L4	W200x36 + PL190x6 T&B	BP2 U.N.O. SEE PLAN NOTE AND PLANS FOR ALL LOCATIONS		
L5	W410x46 + PL190x12 T&B	BP2/BP3 AS SHOWN ON PLAN. SEE PLAN NOTE AND PLANS FOR ALL LOCATIONS		
L6	W200x46 + PL290x10 T&B	BP4/BP5/BP7 U.N.O. SEE PLAN NOTE AND PLANS FOR ALL LOCATIONS		
L7	L152x102x13 LLV + L127x127x13	BP4 U.N.O. SEE PLAN NOTE AND PLANS FOR ALL LOCATIONS		
L8	3-L89x89x9.5 LLV	200mm BEARING MIN.	FOR ALL MECHANICAL OPENINGS AT EXISTING ROOF: 300mm TO 600mm WIDE, U.N.O. (N 290 BLOCK)	
L9	2-L89x89x9.5 LLV	200mm BEARING MIN.	FOR ALL MECHANICAL OPENINGS AT EXISTING ROOF: 300mm TO 600mm WIDE, U.N.O. (N 190 BLOCK)	
L10	2-L89x65x9.5 LLV	200mm BEARING MIN.	FOR ALL MECHANICAL OPENINGS AT EXISTING ROOF: 300mm TO 600mm WIDE, U.N.O. (N 140 BLOCK)	

NOTES:

- ALL MASONRY WALLS ON PLAN ARE LOAD BEARING MASONRY WALLS. ALL OPENINGS LARGER THAN 400mm WIDE REQUIRES LINTEL TO SUPPORT THE LOAD BEARING MASONRY ABOVE.
- MECHANICAL OPENINGS IN LOAD BEARING WALL WIDER THAN 400mm AND NOT SHOWN ON STRUCTURAL PLAN MUST BE REPORTED TO THE STRUCTURAL CONSULTANT FOR SPECIFICATION OF A STEEL LINTEL USED TO SPAN THE ROUGH OPENING.
- GROUT BLOCK SOLID BELOW BEARING POINT OF ALL LINTELS CONTINUOUS TO TOP OF FOUNDATION WALL.
- WELD ALL BACK TO BACK ANGLES AT 400mm o/c.
- FILL ALL MASONRY AROUND LINTELS SOLID WITH MORTAR.
- IF MASONRY PER 600mm OR LESS IN WIDTH IS FORMED BETWEEN TWO(2) OPENINGS - PLACE 2-15M VERT. IN CENTRE CORE OF PIER BETWEEN OPENINGS AND GROUT PIER SOLID FOR FULL HEIGHT OF WALL.
- WHERE LINTEL IS ADJACENT TO STEEL BUILDING COLUMN- CONNECT THE LINTEL TO THE COLUMN FOR THE LOADS INDICATED IN THE SPECIFICATIONS.
- LINTELS TO BEAR 200mm MINIMUM ON SOLID FILLED MASONRY UNLESS NOTED.

CAST-IN STEEL PLATE SCHEDULE				
PLATE MARK	PLATE SIZE(mm)	ANCHOR BOLTS	ANCHOR SPACING	COMMENTS
WP1	200Vx16x200H	4-13mmØ x 150 LONG NELSON HEADED ANCHORS	100	

NOTES:

- CAST-IN WALL PLATES TO BE FABRICATED BY STRUCTURAL STEEL CONTRACTOR AND PLACED BY CONCRETE FORMING CONTRACTOR.
- LOCATION AND ELEVATION OF CAST-IN PLATES TO BE COORDINATED WITH STRUCTURAL STEEL SHOP DRAWINGS. HORIZONTAL CENTRELINE OF PLATE TO COINCIDE WITH CENTRELINE OF HORIZONTAL MEMBER TO BE CONNECTED TO PLATE UNLESS NOTED OTHERWISE.
- VERTICAL DIMENSION OF PLATE NOTED IN PLATE SIZE COLUMN AS 'V'.
- STEEL FABRICATOR TO DESIGN CONNECTION TO BE WELDED TO FACE OF CAST-IN PLATE. REFER TO TYPICAL DETAIL TITLED "HEADED STUD ANCHOR PLATES INTO CONCRETE".
- LENGTH OF HEADED ANCHOR SHOWN IS DIMENSION MEASURED AFTER WELDING.
- MINIMUM DISTANCE FROM CENTRELINE OF ANCHOR TO EDGE OF CONCRETE IN ANY DIRECTION TO BE 100mm.
- EDGE DISTANCE SHOWN IN ANCHOR SPACING COLUMN IS APPLICABLE FOR BOTH DIRECTIONS. SPACING BETWEEN ANCHORS IS EQUALLY DIVIDED FROM REMAINING PLATE DIMENSION.
- REFER TO TYPICAL DETAIL TITLED "HEADED STUD ANCHOR PLATES INTO CONCRETE" FOR ADDITIONAL CONCRETE REBAR REINFORCING AT PLATES.

architects
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(519) 725-3555
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03 07.10.2025	ISSUED FOR 70% CLIENT REVIEW	PR
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St. Mark CES Addition

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SCHEDULES

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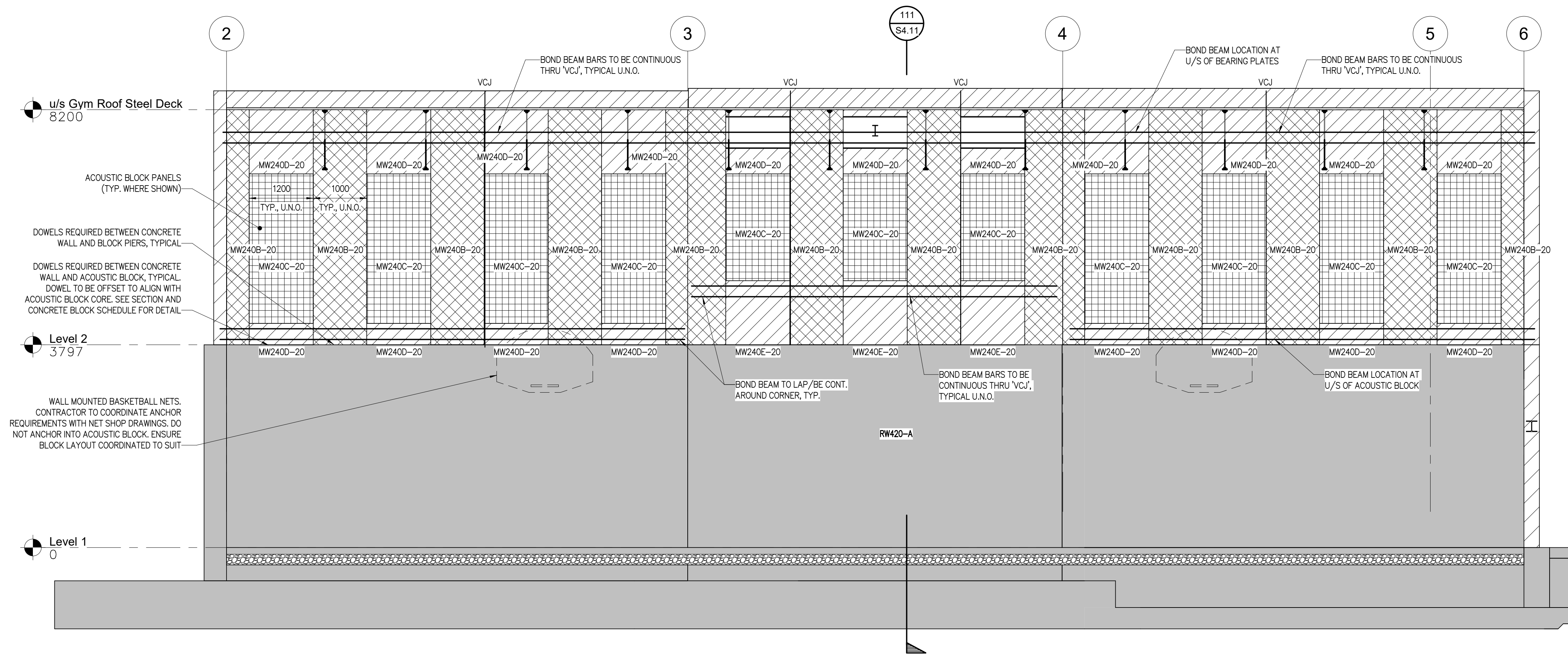
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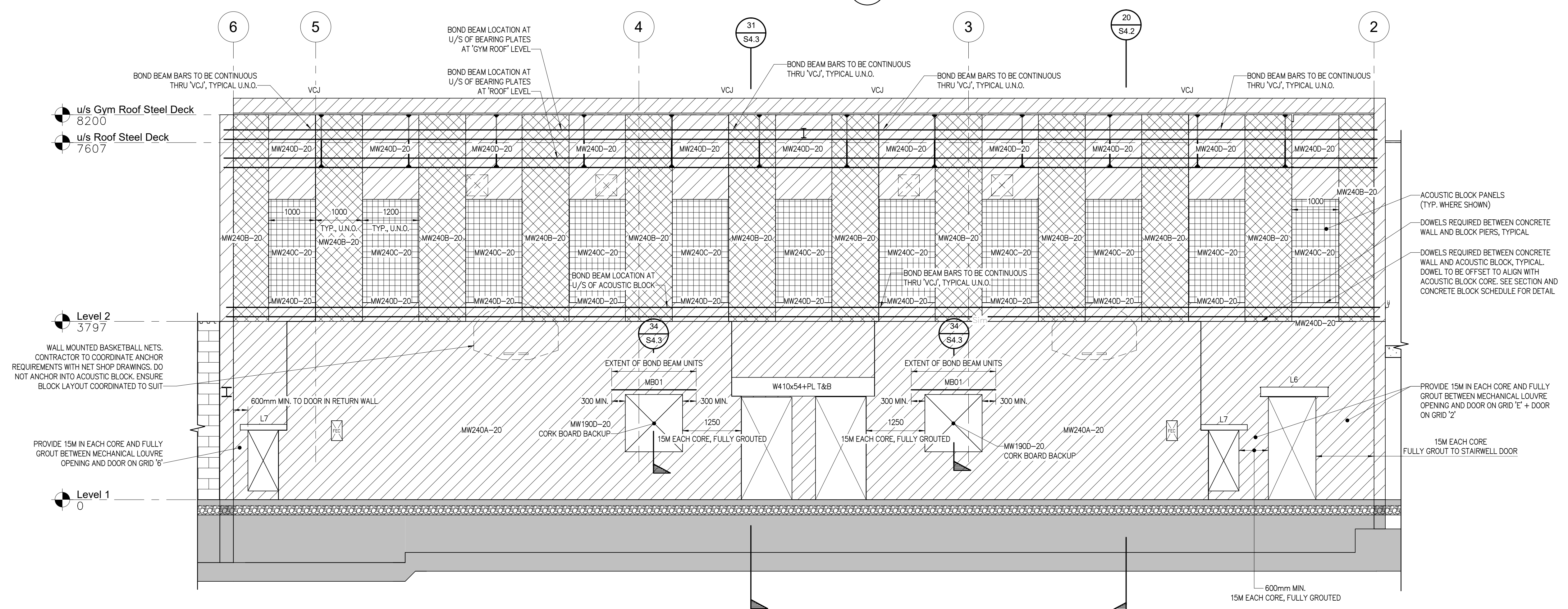
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S2.2



ELEVATION AA
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S1.0



ELEVATION BB
1 : 50
S1.0

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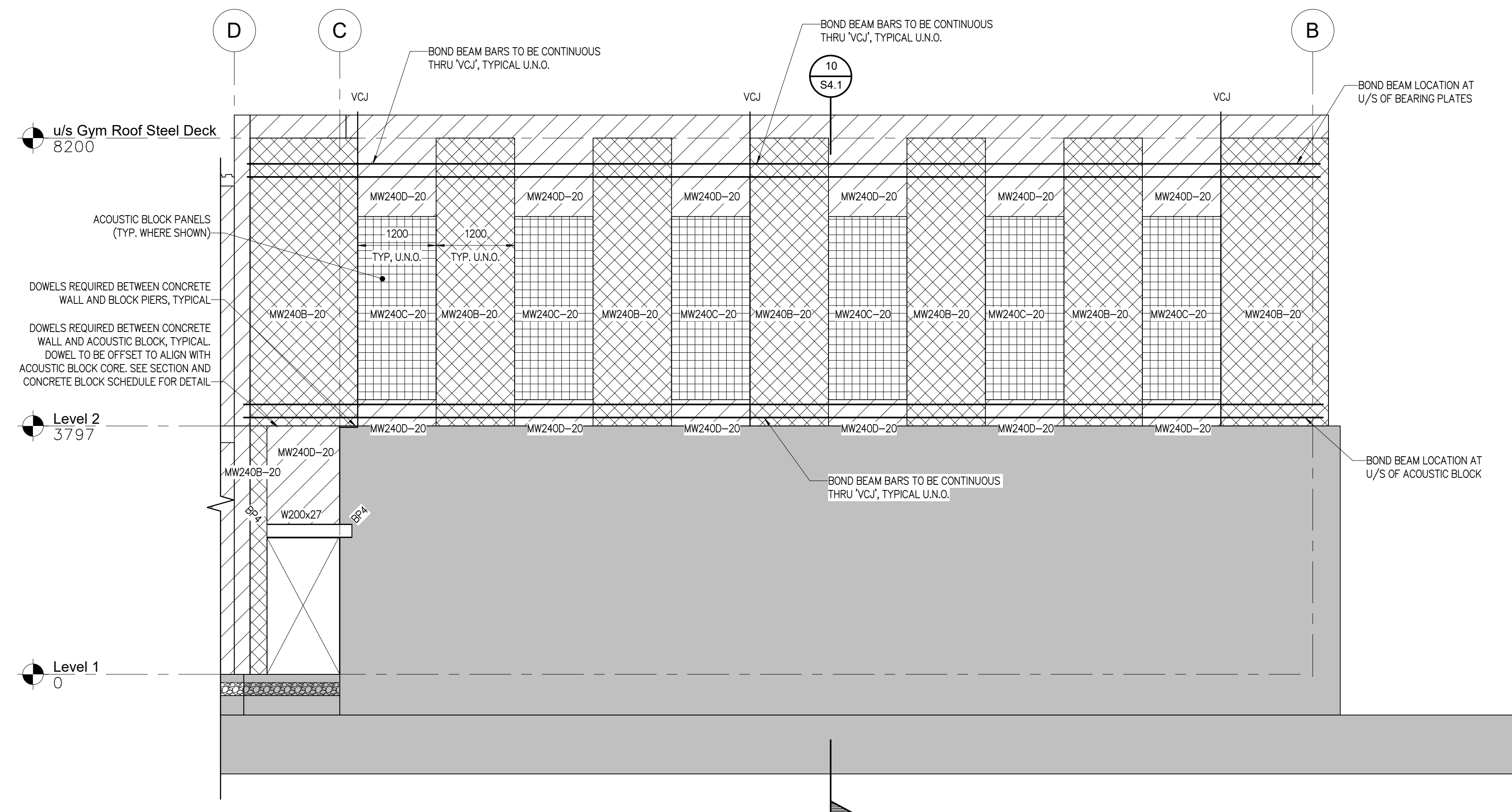
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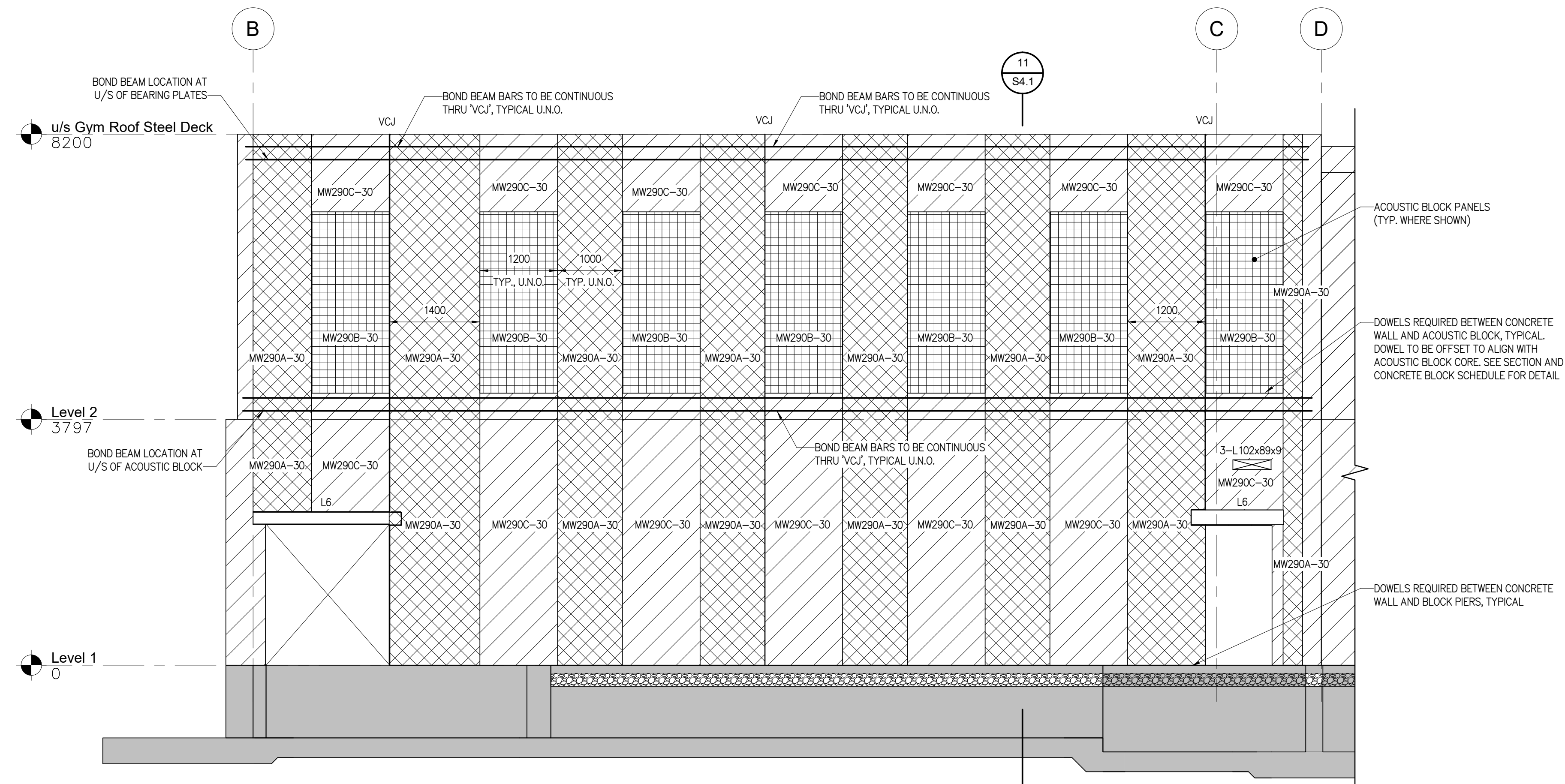
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S3.1



ELEVATION CC
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ELEVATION DD
1 : 50 S1.0

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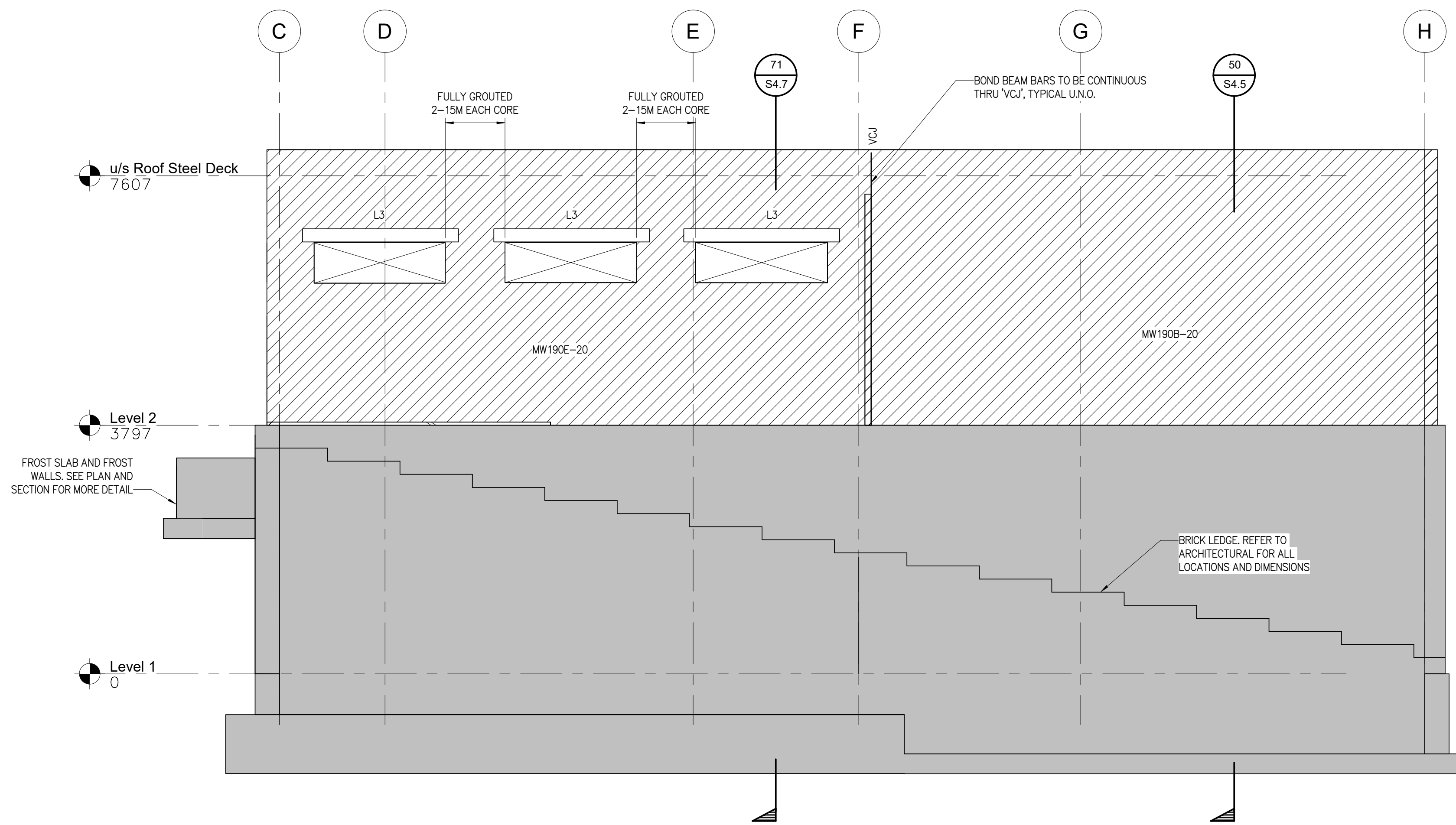
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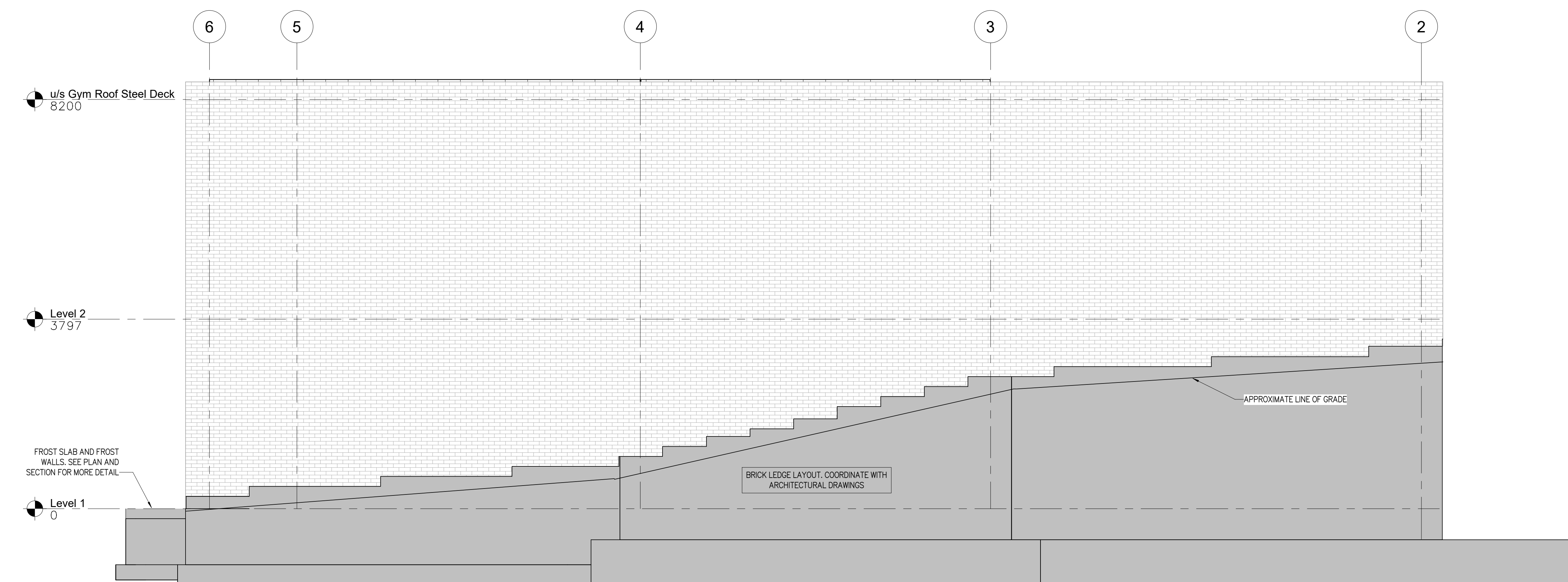
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S3.2



ELEVATION EE
1 : 50 S1.0



ELEVATION FF
1 : 50 S1.0

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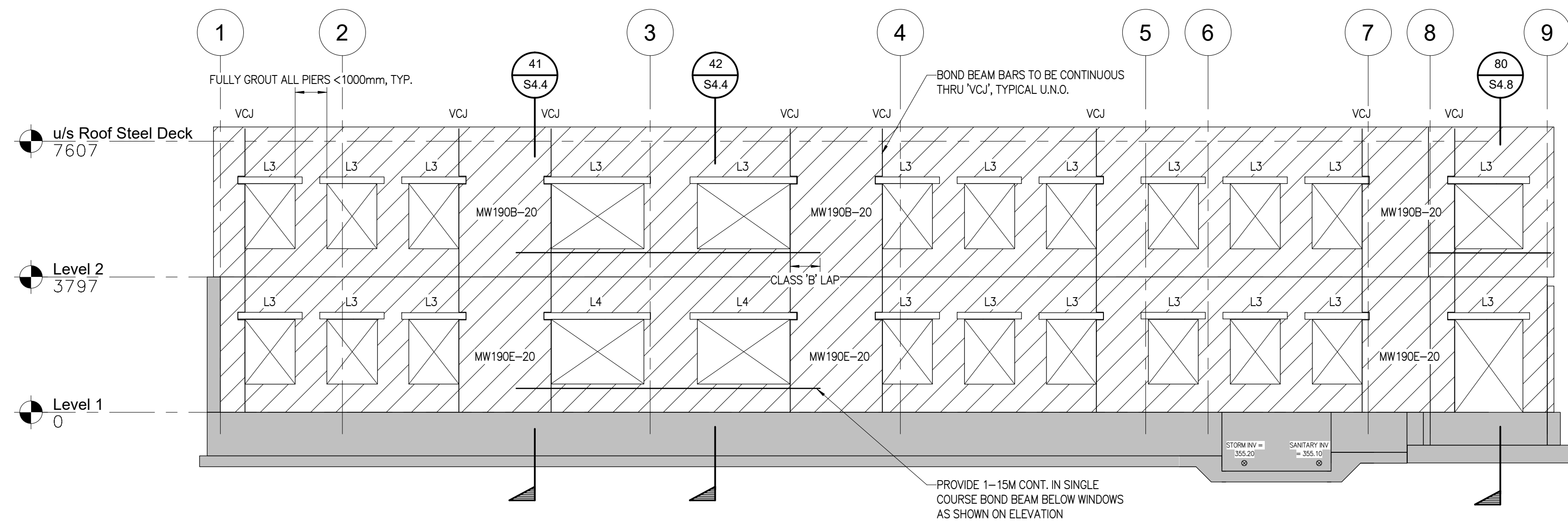
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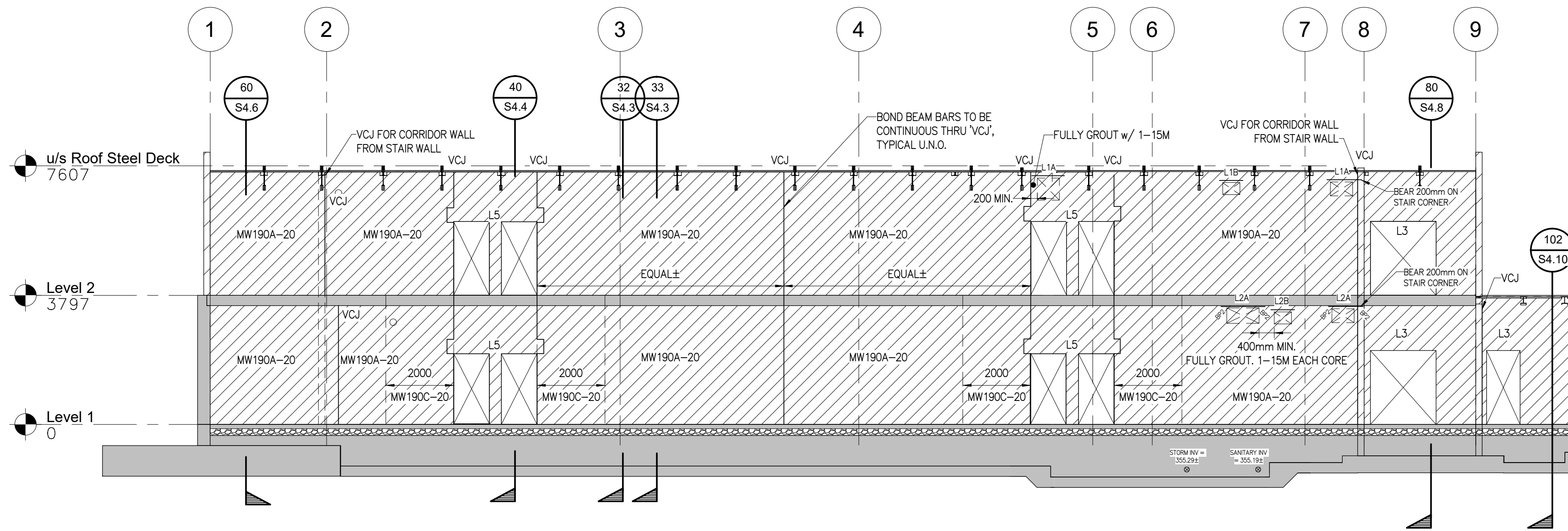
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S3.3



ELEVATION GG
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ELEVATION HH
1 : 100

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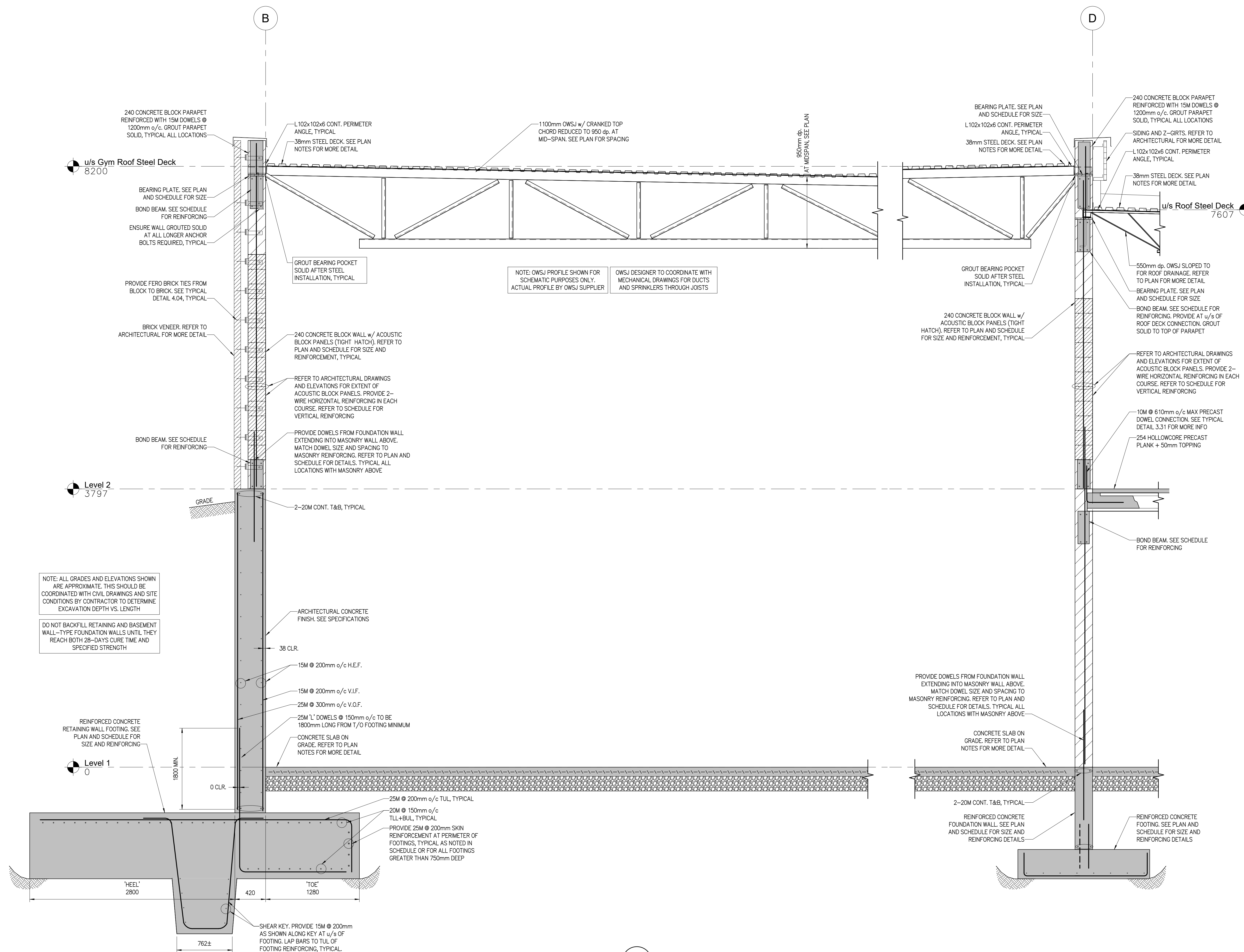
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S3.4



NOTE: ALL GRADES AND ELEVATIONS SHOWN ARE APPROXIMATE. THIS SHOULD BE COORDINATED WITH CIVIL DRAWINGS AND SITE CONDITIONS BY CONTRACTOR TO DETERMINE EXCAVATION DEPTH VS. LENGTH

DO NOT BACKFILL RETAINING AND BASEMENT WALL-TYPE FOUNDATION WALLS UNTIL THEY REACH BOTH 28-DAYS CURE TIME AND SPECIFIED STRENGTH

NOTE: OWSJ PROFILE SHOWN FOR SCHEMATIC PURPOSES ONLY. ACTUAL PROFILE BY OWSJ SUPPLIER

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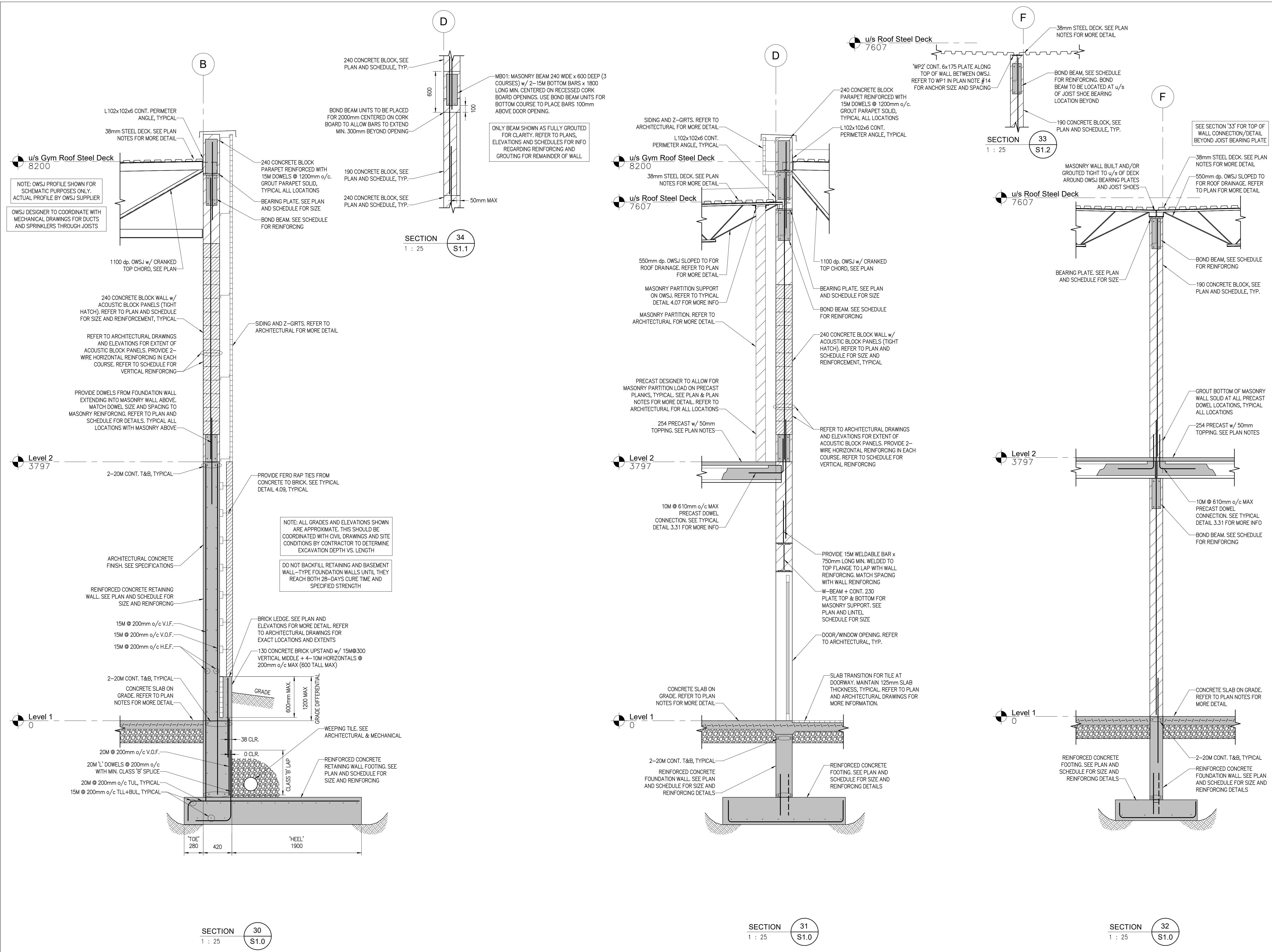
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SECTIONS

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S4.2



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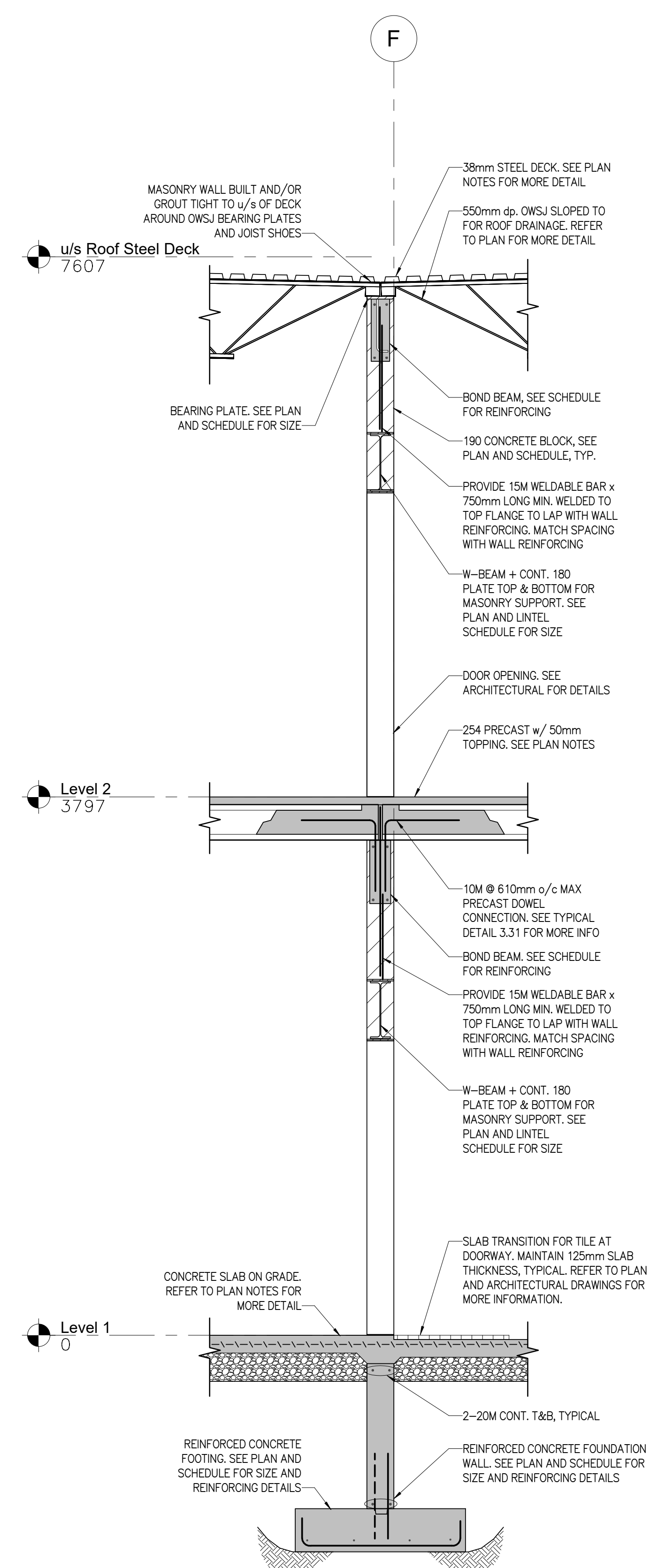
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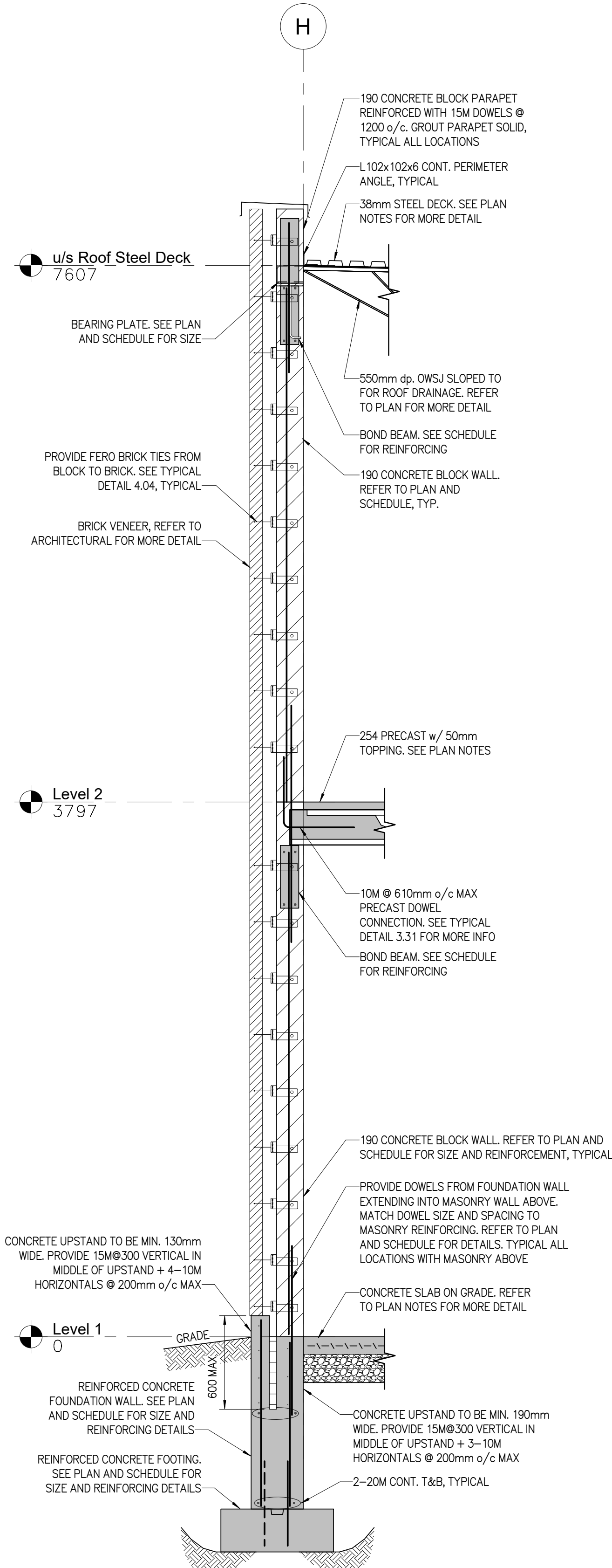
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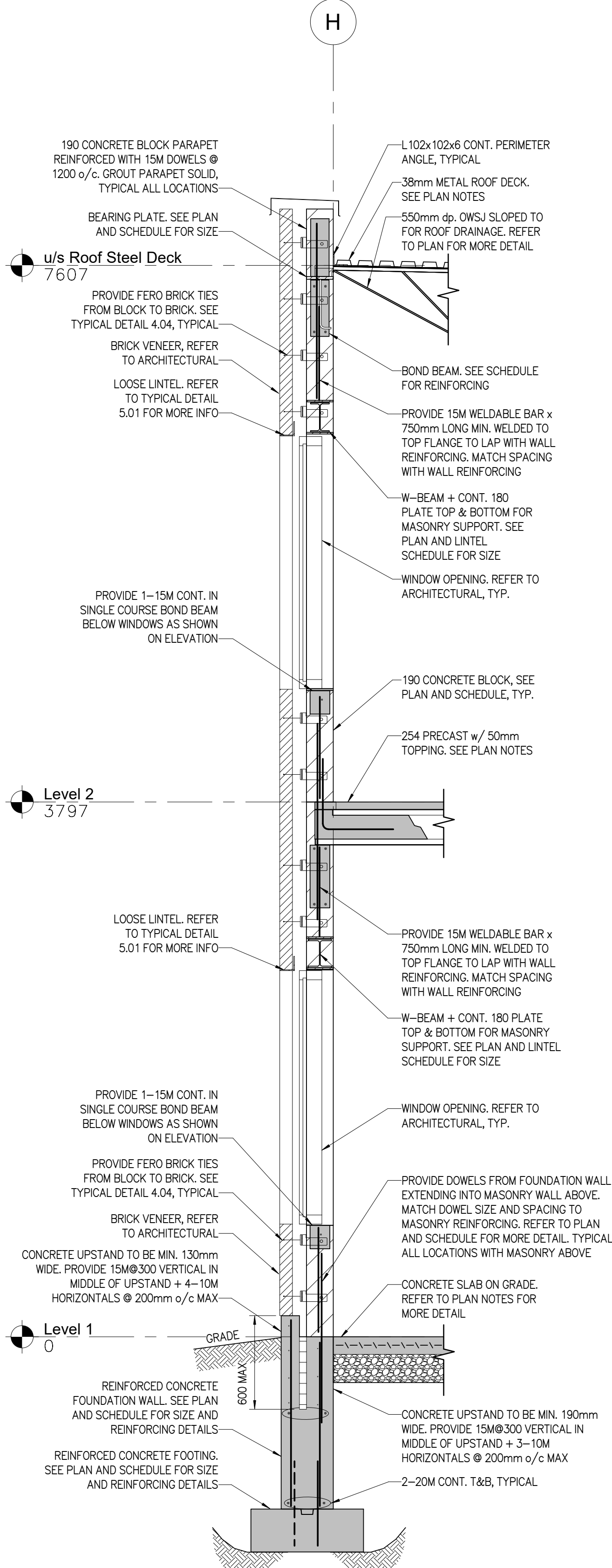
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SECTION 40
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SECTION 41
1 : 25 S1.0



SECTION 42
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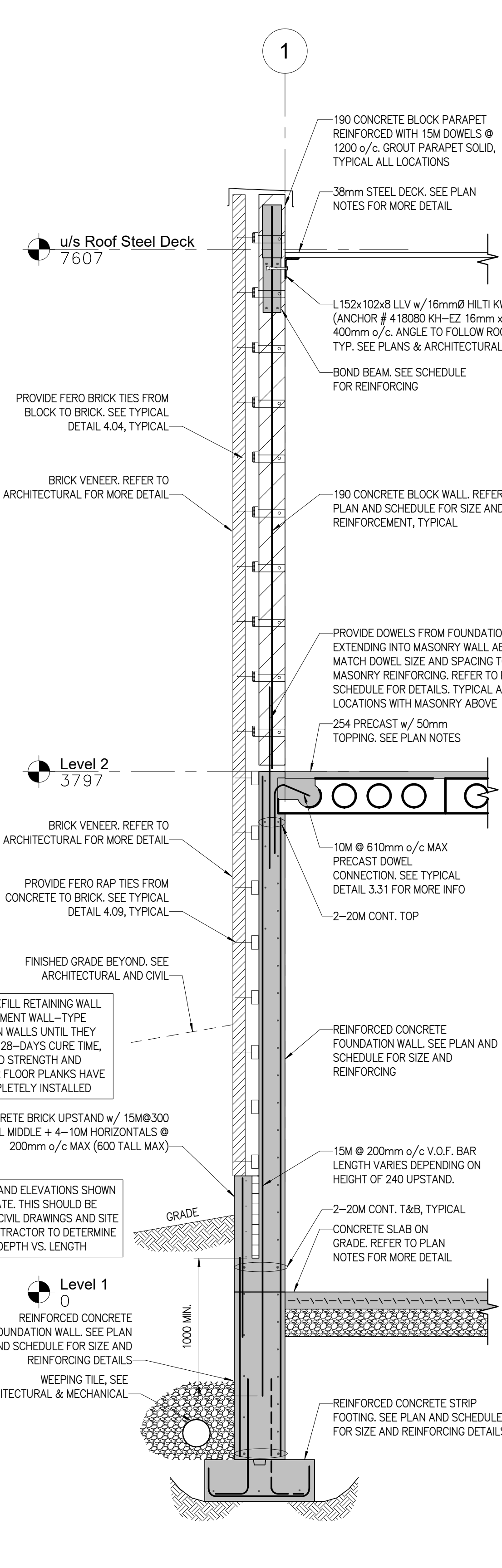
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6 09.05.2025	ISSUED FOR PERMIT	AV
5 08.28.2025	ISSUED FOR 90% CLIENT REVIEW	AV
4 08.08.2025	ISSUED FOR 80% CLIENT REVIEW	AV
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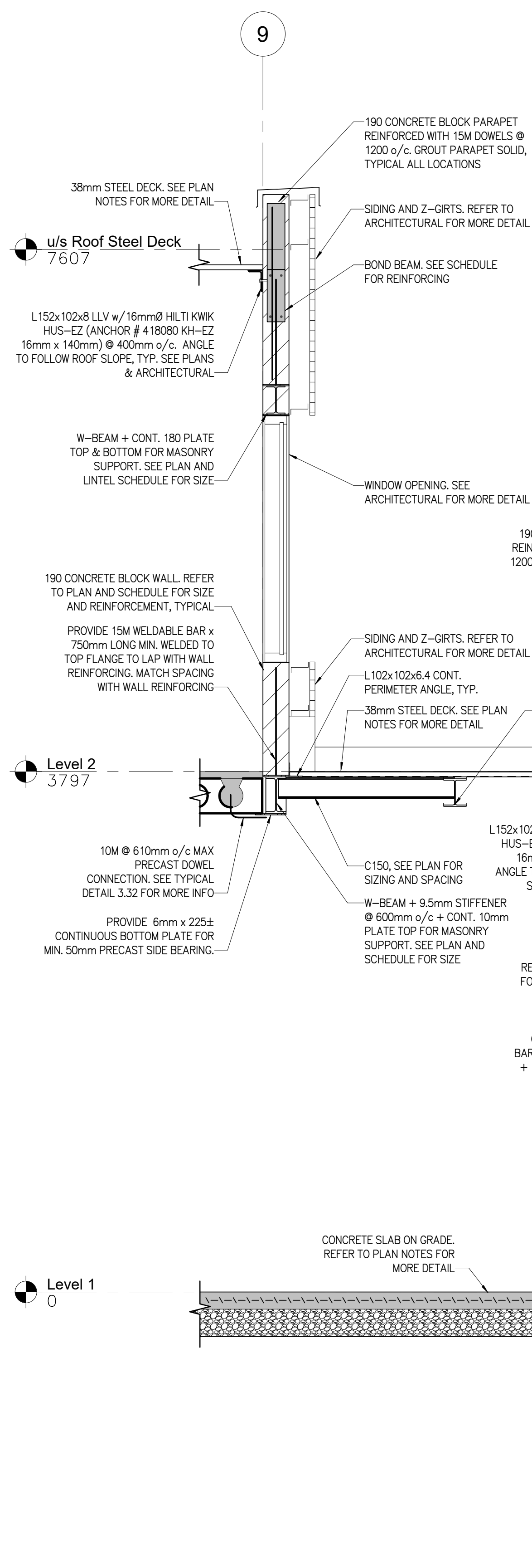
St. Mark CES Addition
240 Autumn Hill Crescent
Kitchener, ON N2N 1K8

SECTIONS

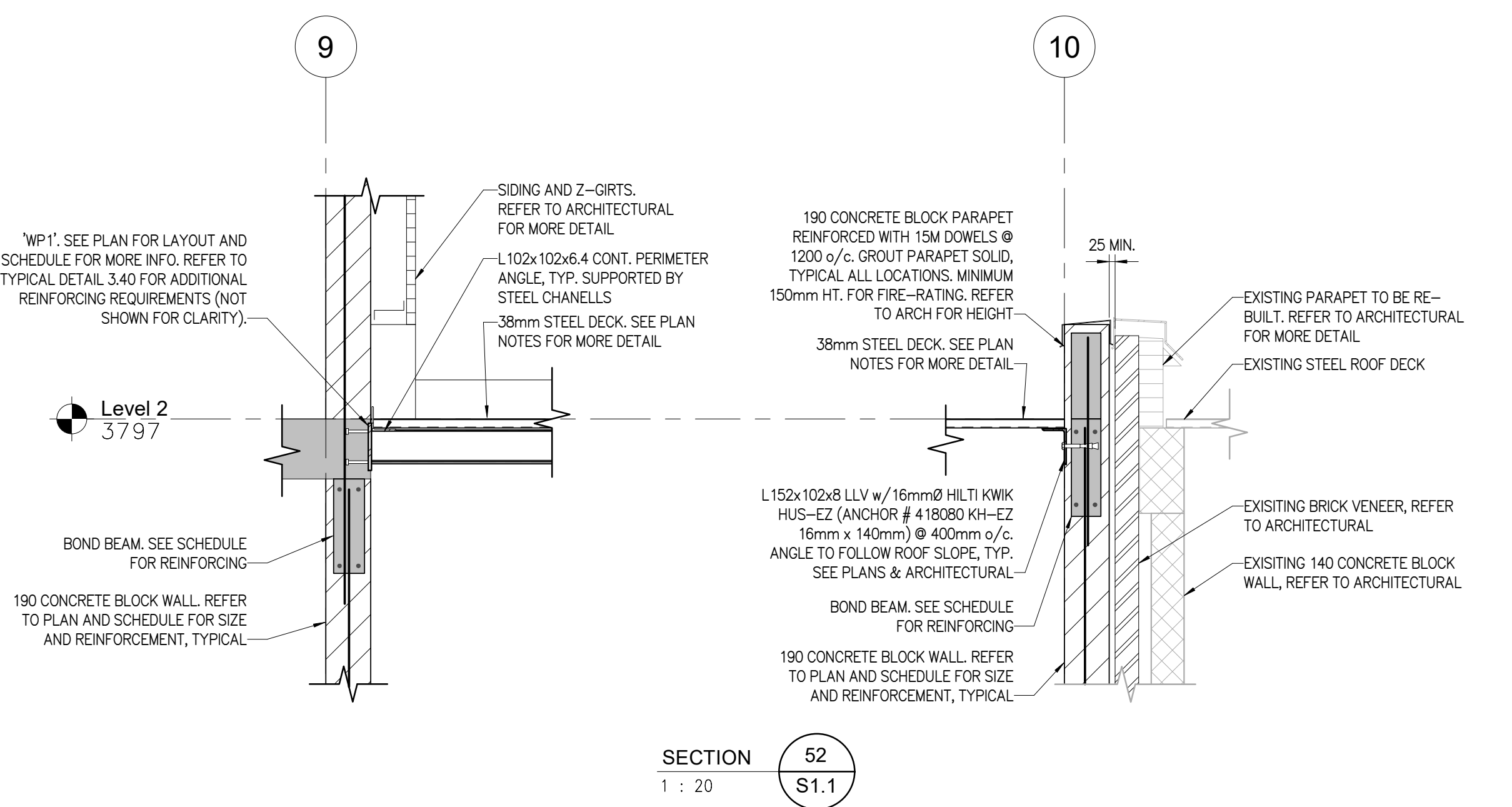
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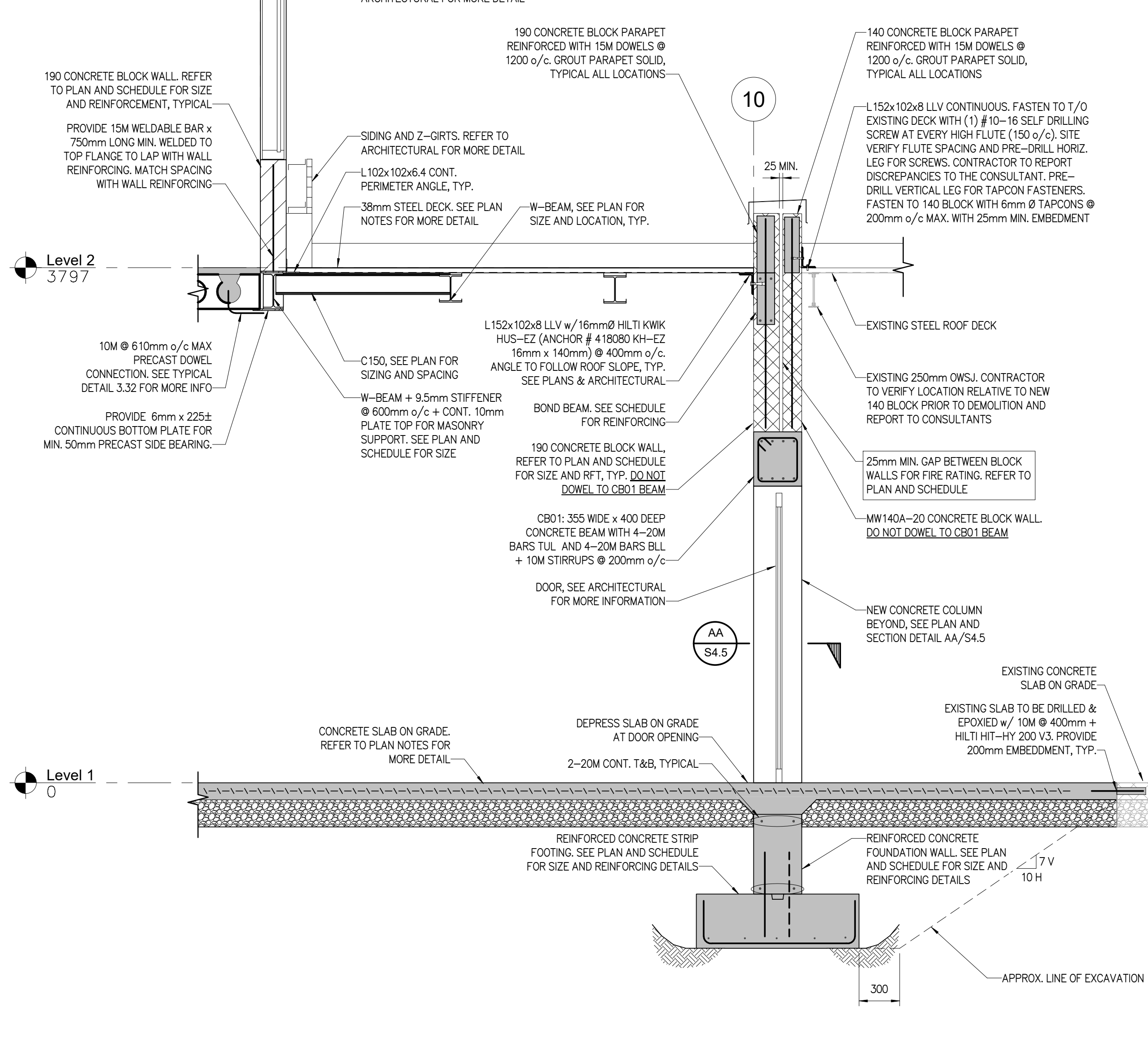
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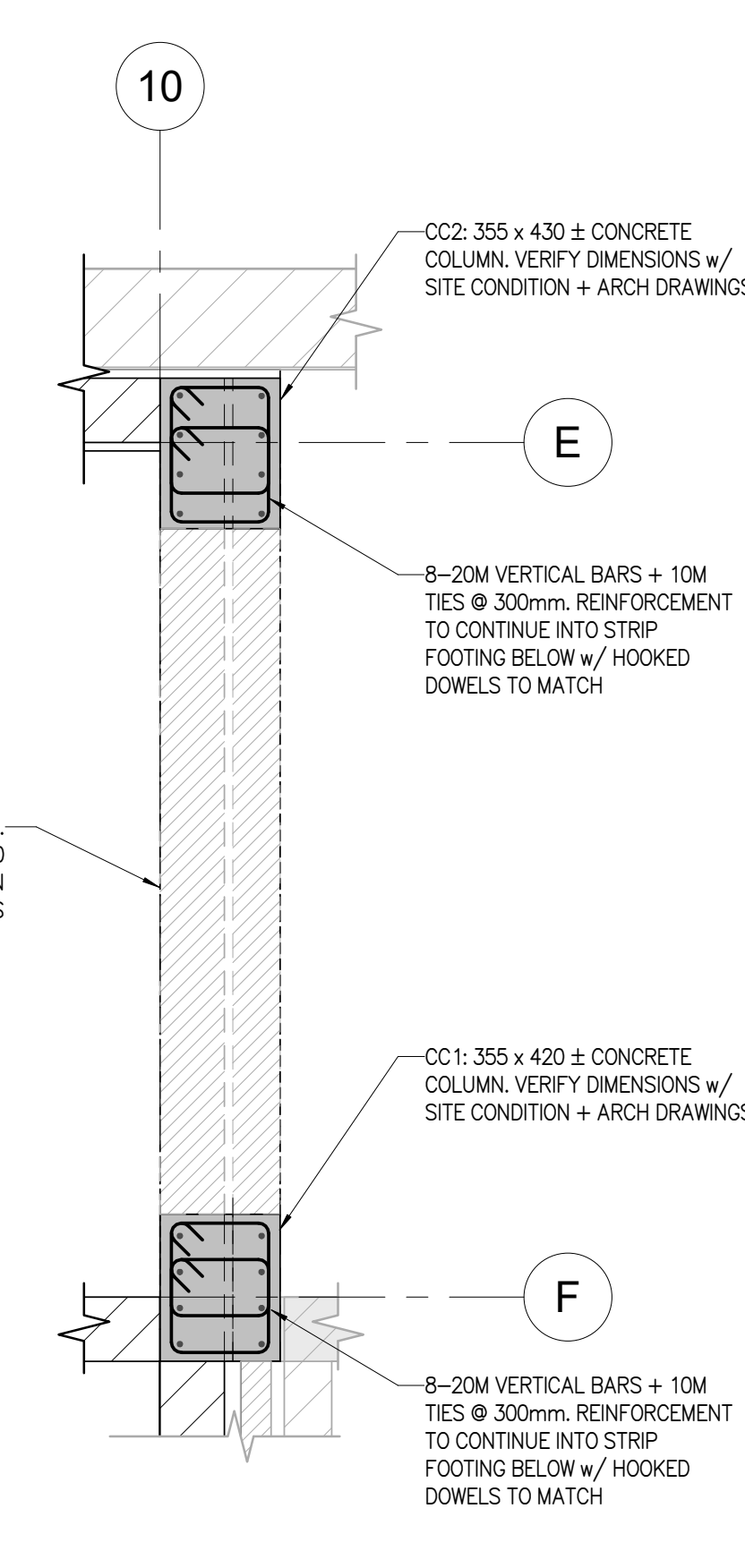
SECTION 51
1 : 25



SECTION 52
1 : 20



SECTION 51
1 : 25



DETAIL AA
1 : 20

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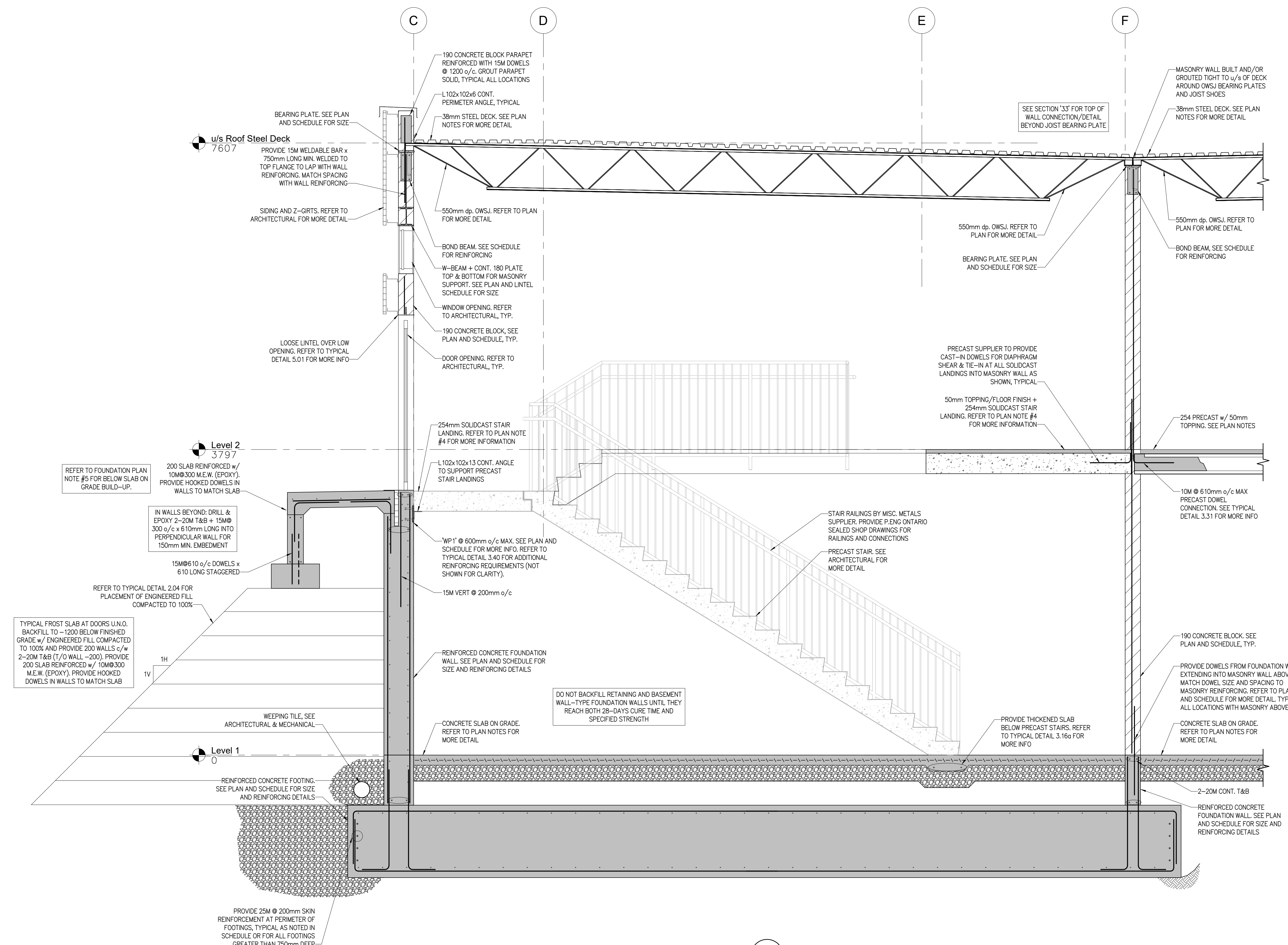
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5 08.28.2025	ISSUED FOR 90% CLIENT REVIEW	AV
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# date:	revision:	by:

St. Mark CES Addition
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SECTIONS

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S4.5



SECTION 60
1 : 25 S1.0

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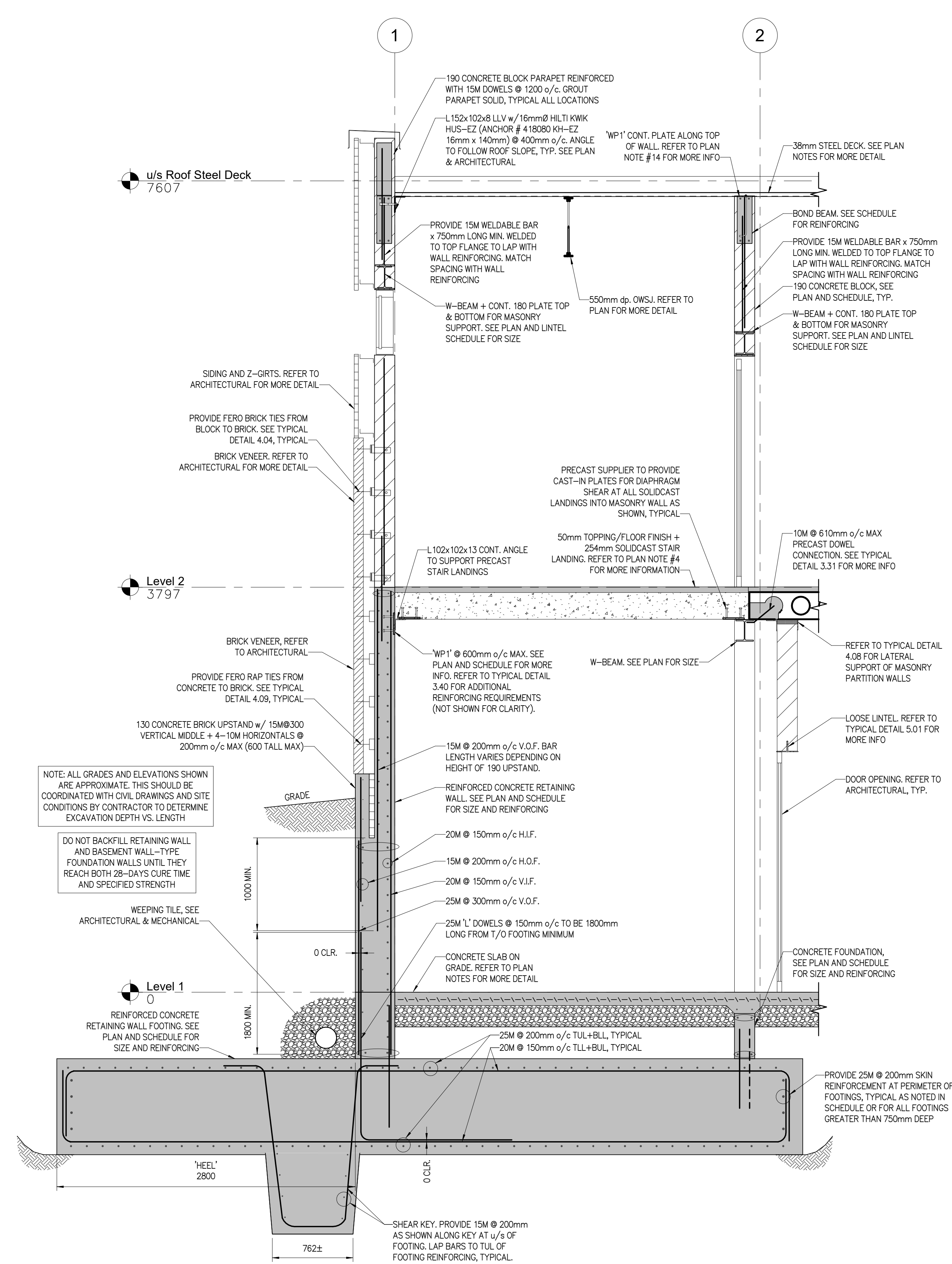
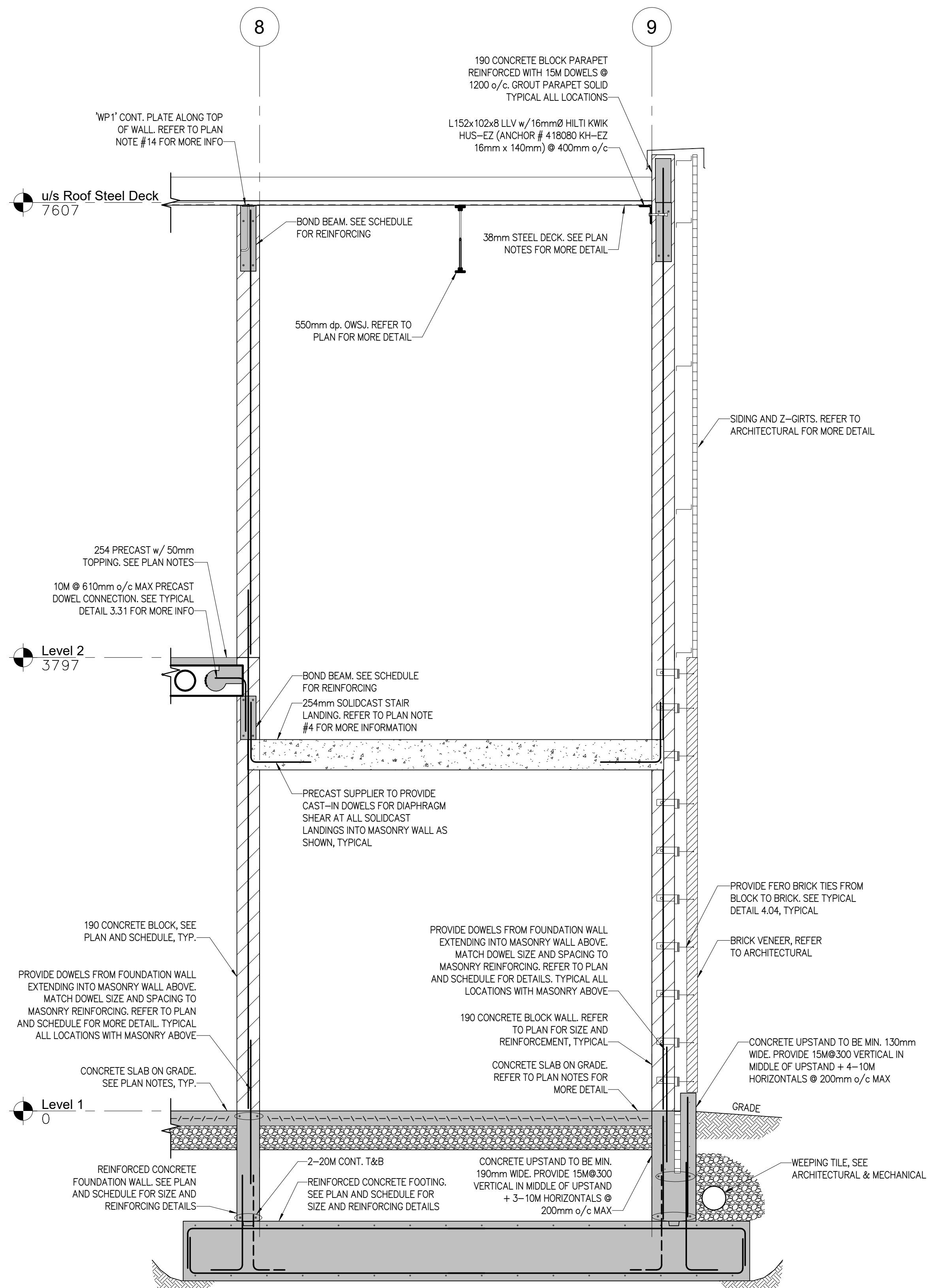
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2	07.03.2025	ISSUED FOR COORDINATION	AV
#	date:	revision:	by:

St. Mark CES Addition
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SECTIONS

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S4.6



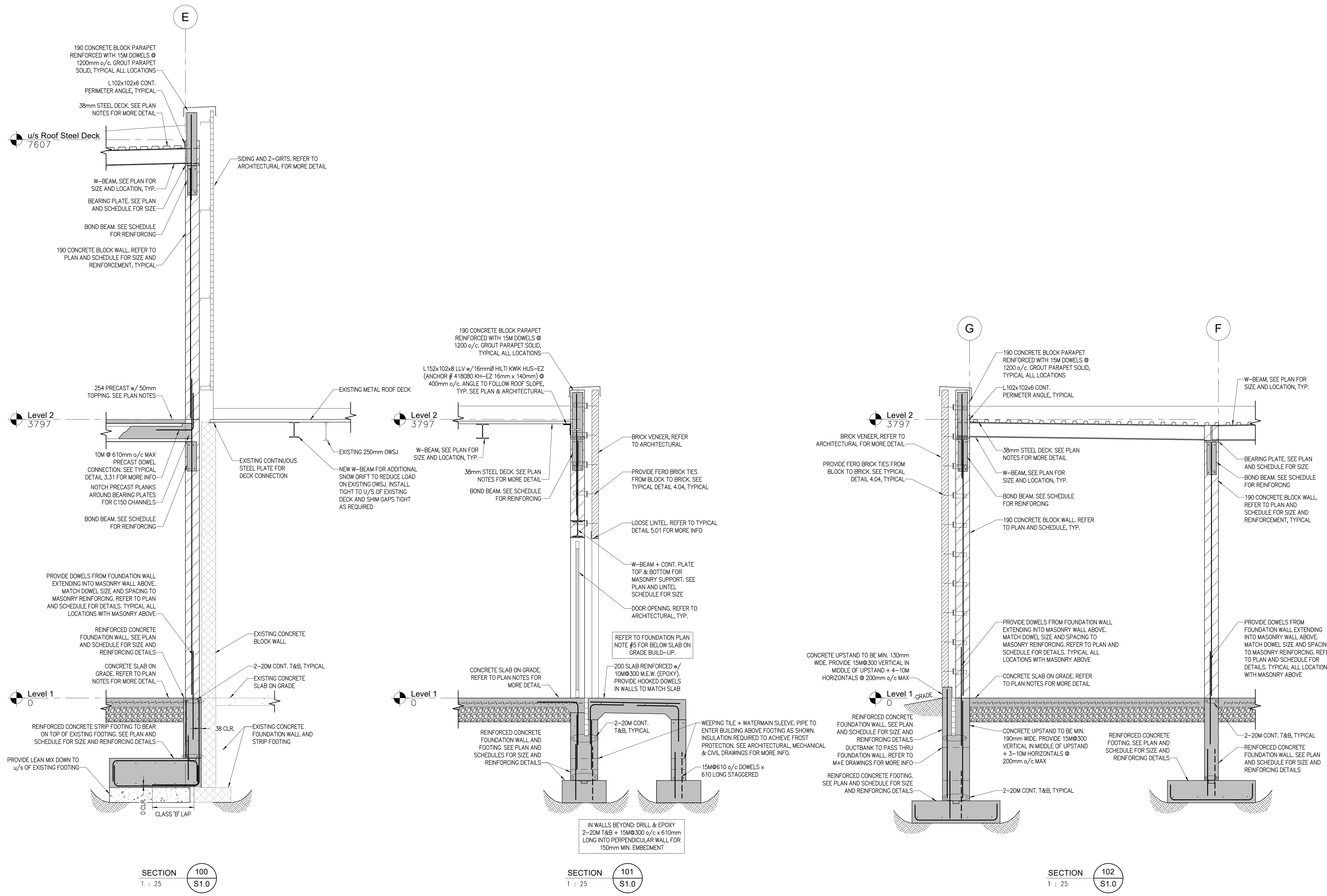
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07.03.2025	ISSUED FOR COORDINATION	AV
# date:	revision:	by:

St. Mark CES Addition
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SECTIONS

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job number:	25158
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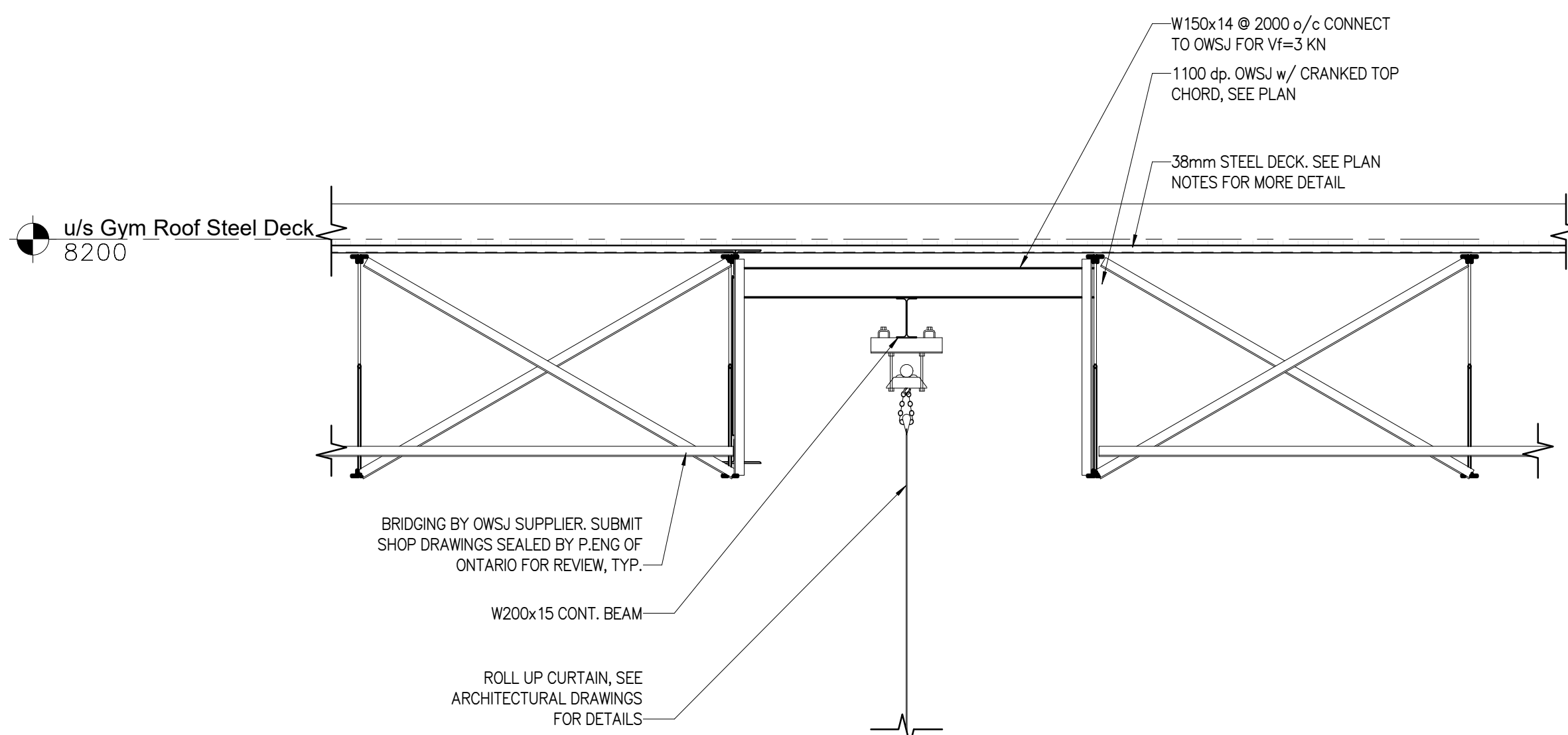
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St. Mark CES Addition
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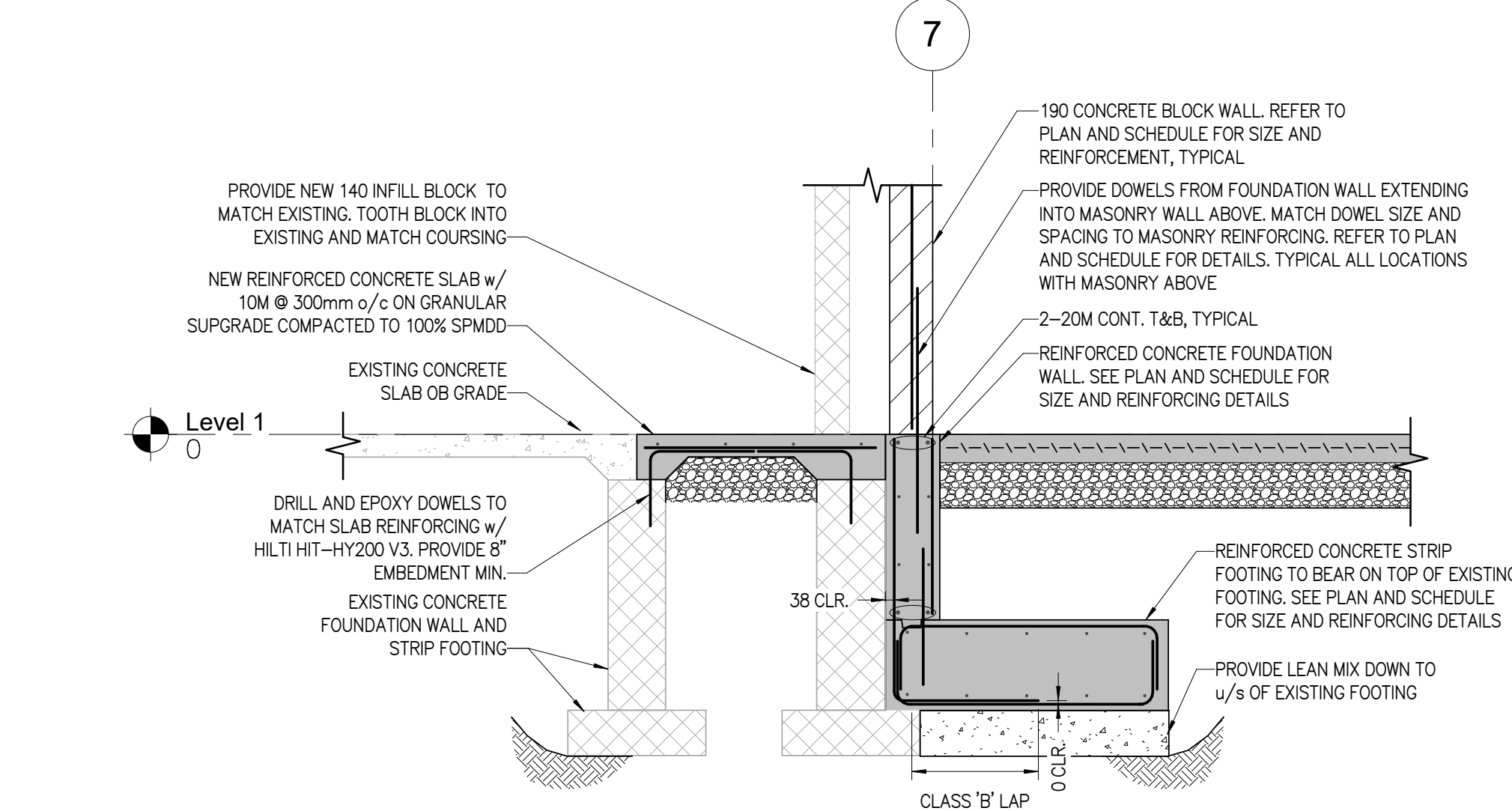
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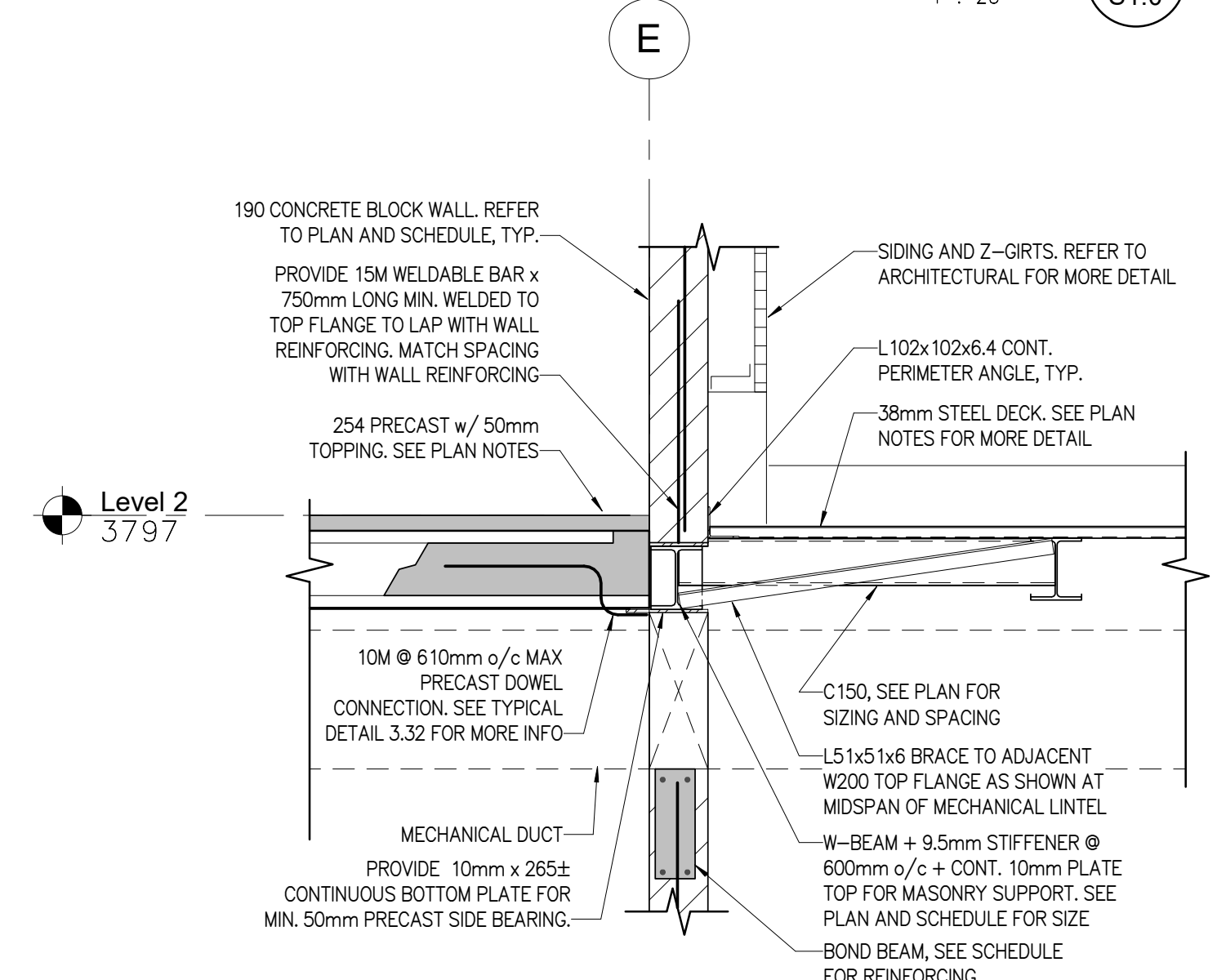
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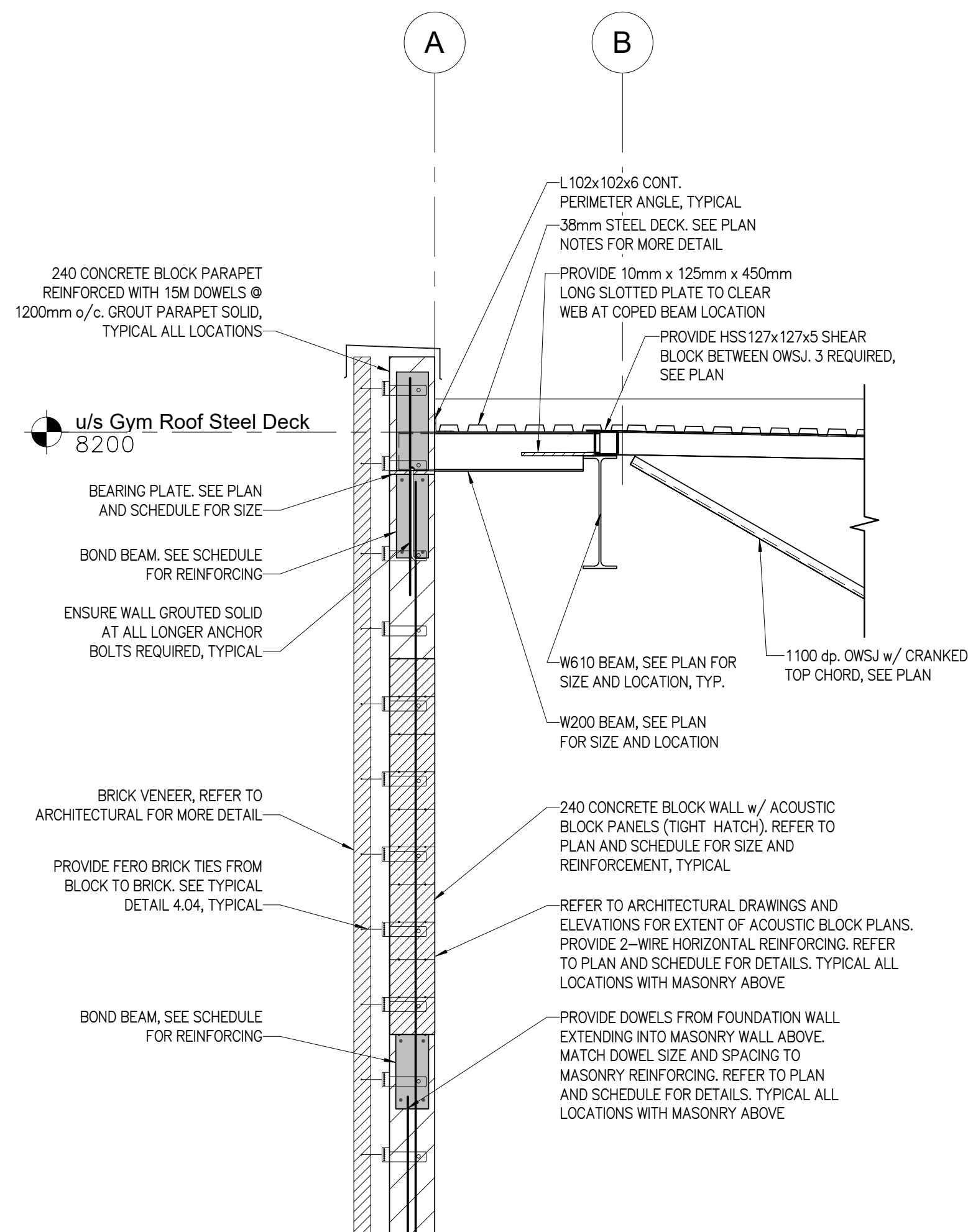
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S1.2



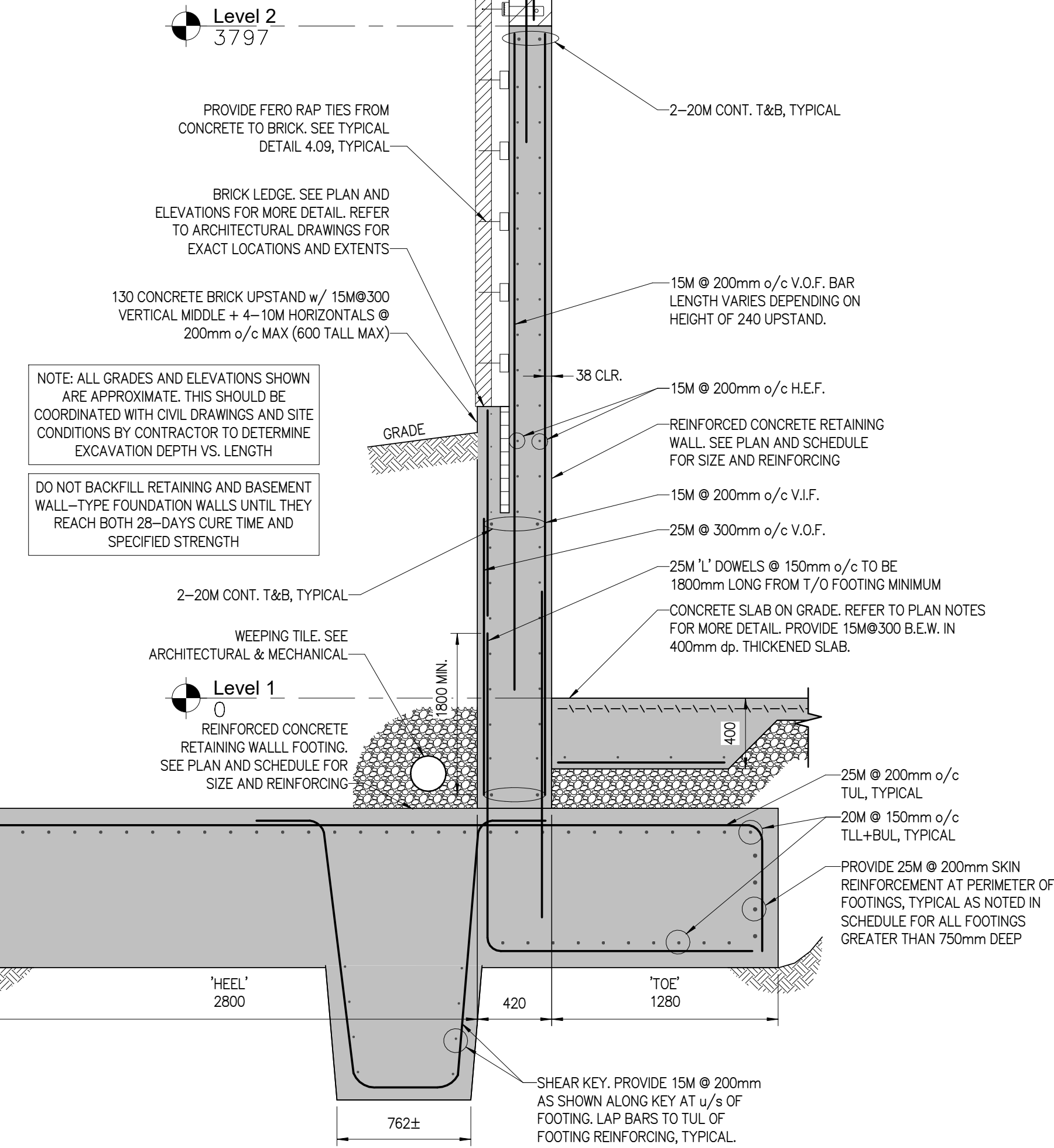
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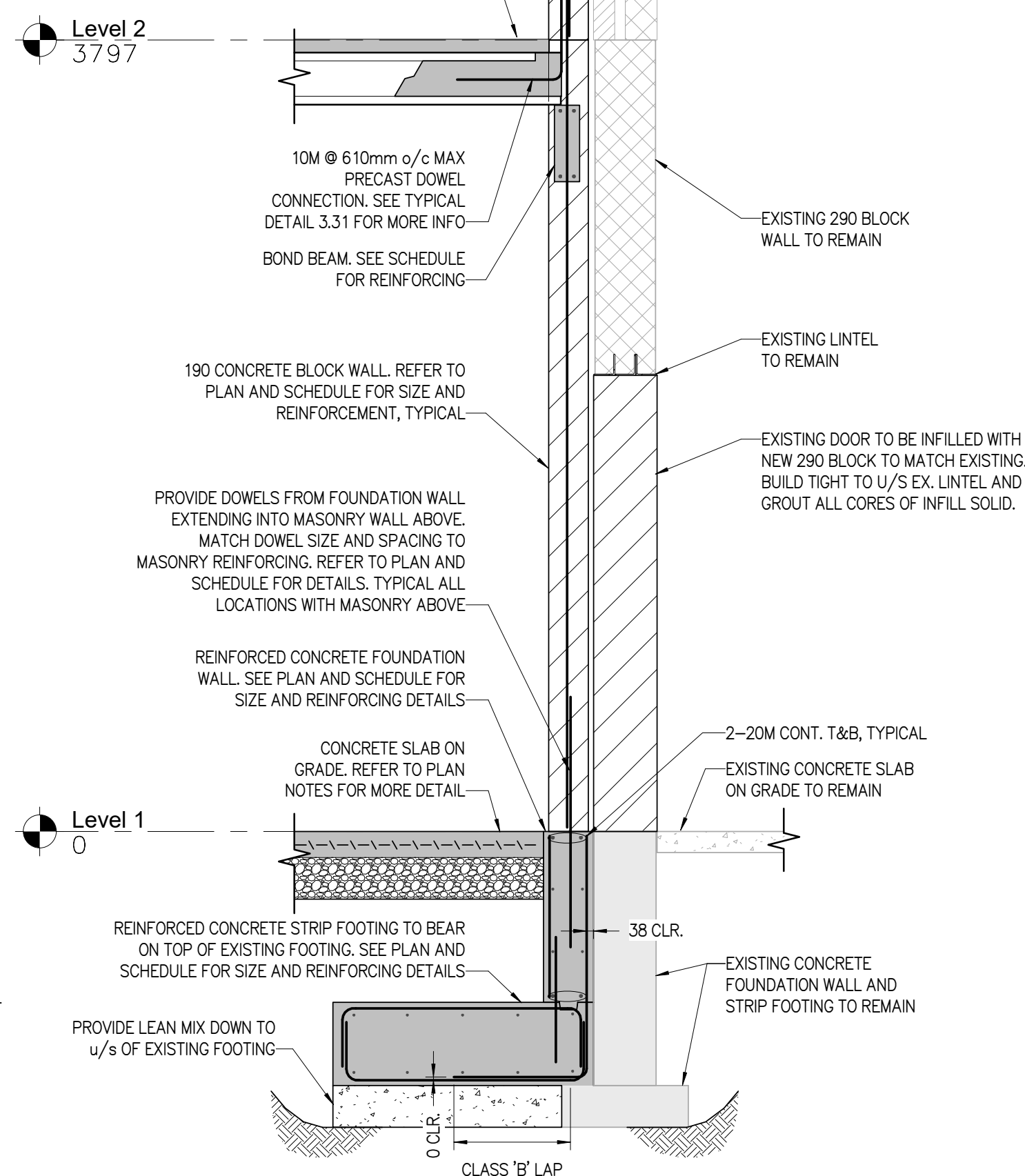
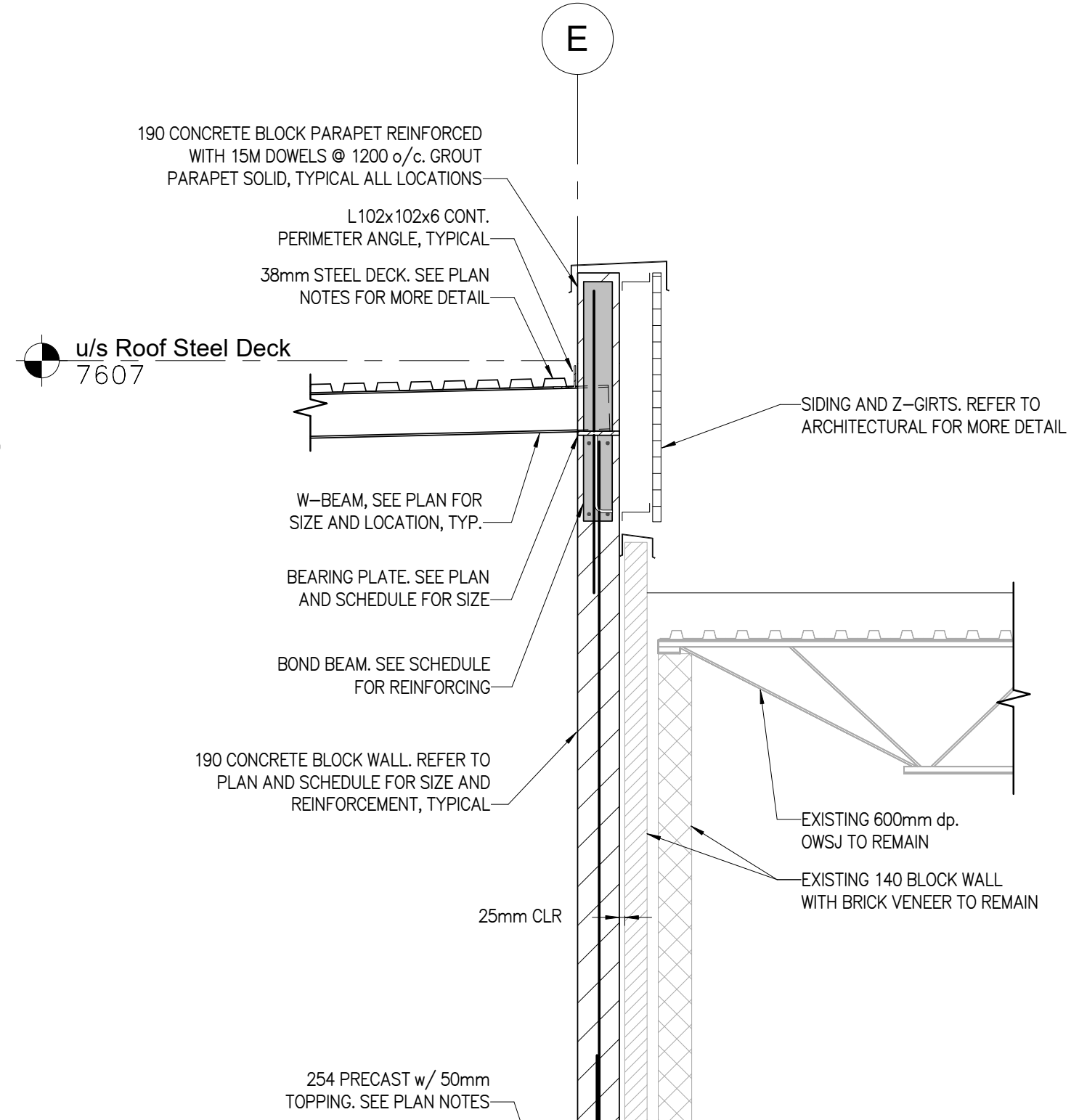
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S1.1



SECTION 111
1 : 25
S1.0



SECTION 112
1 : 25
S1.0



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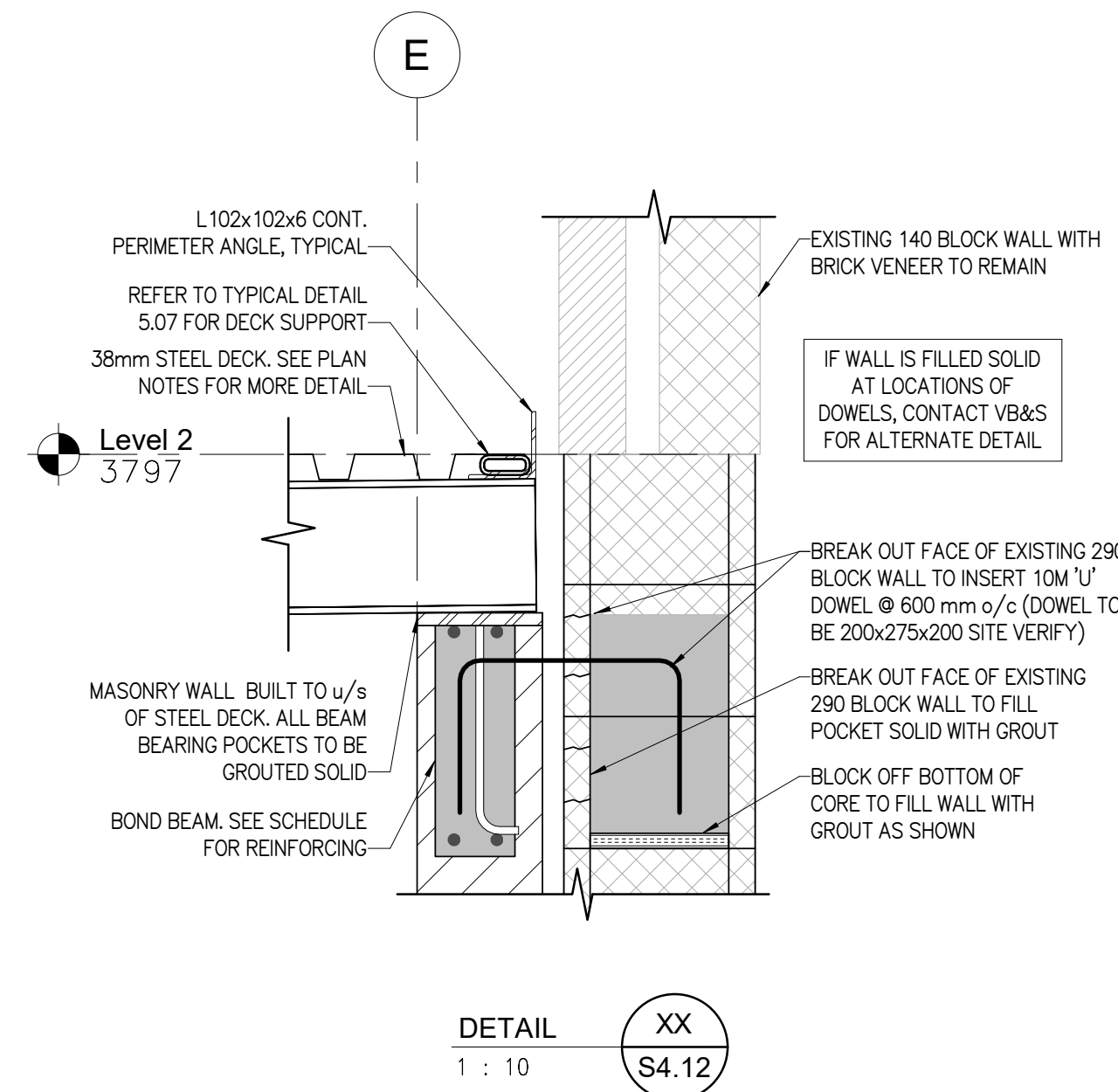
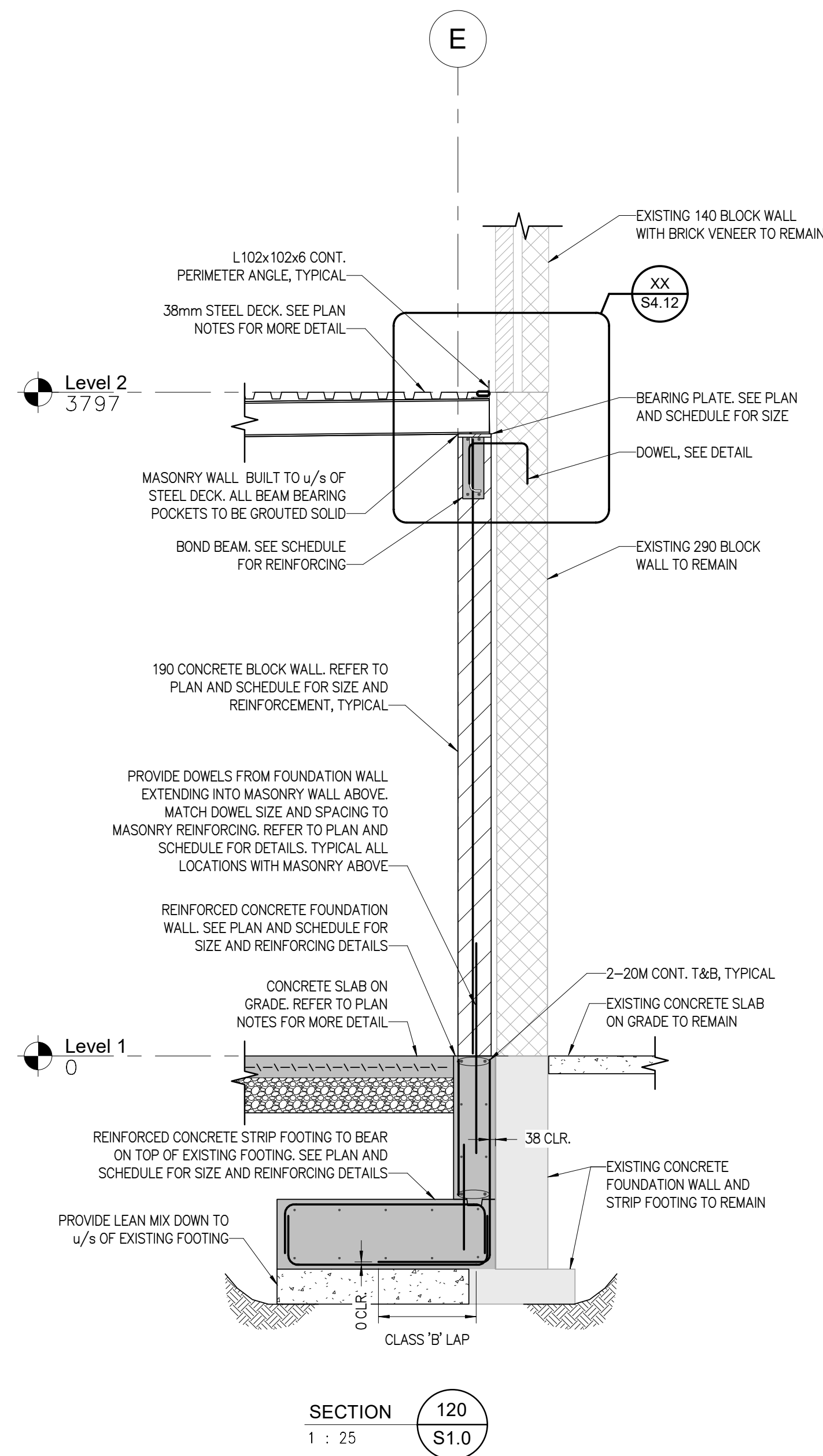
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3 07.10.2025	ISSUED FOR 10% CLIENT REVIEW	PR
2 07.03.2025	ISSUED FOR COORDINATION	AV
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SECTIONS

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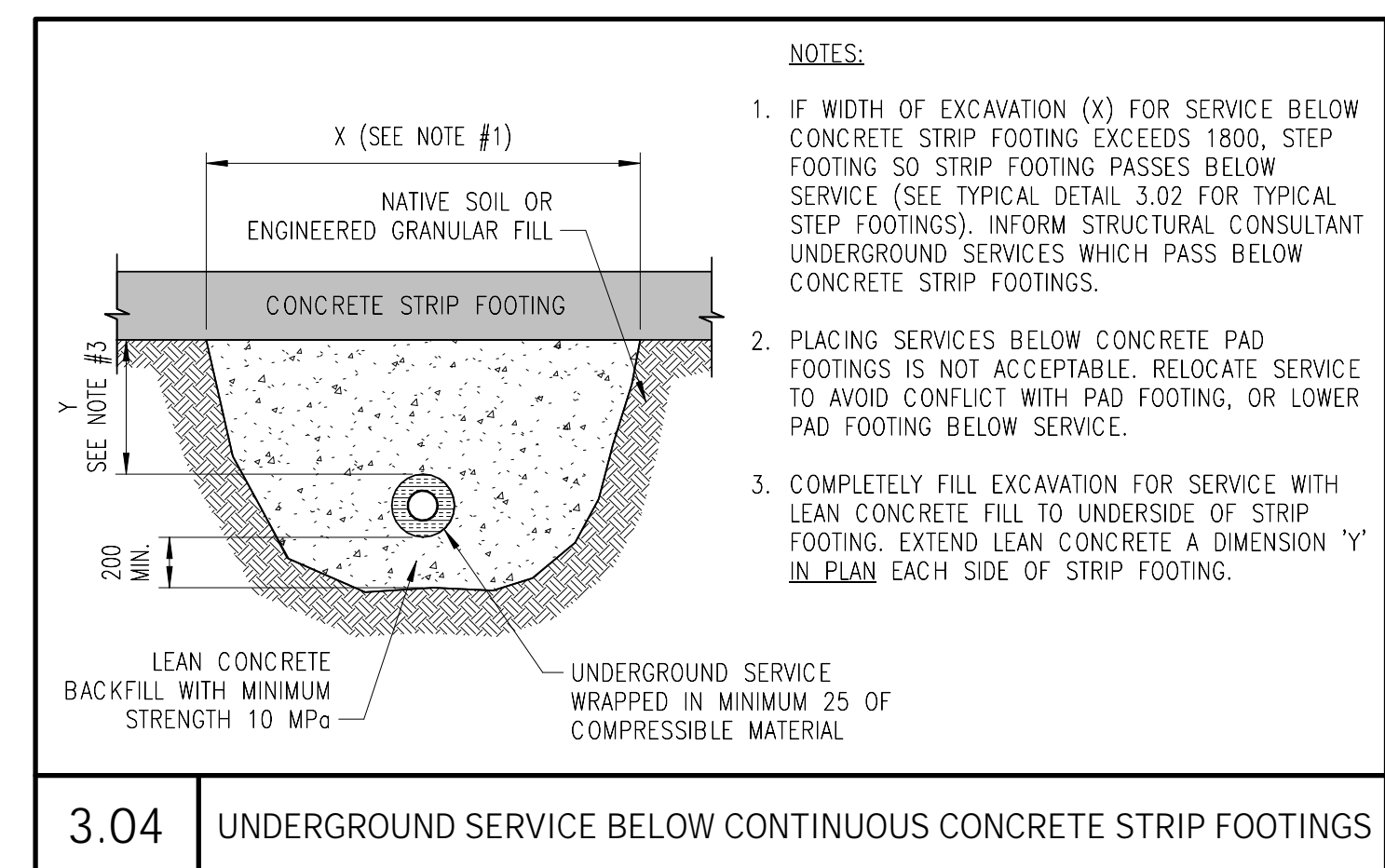
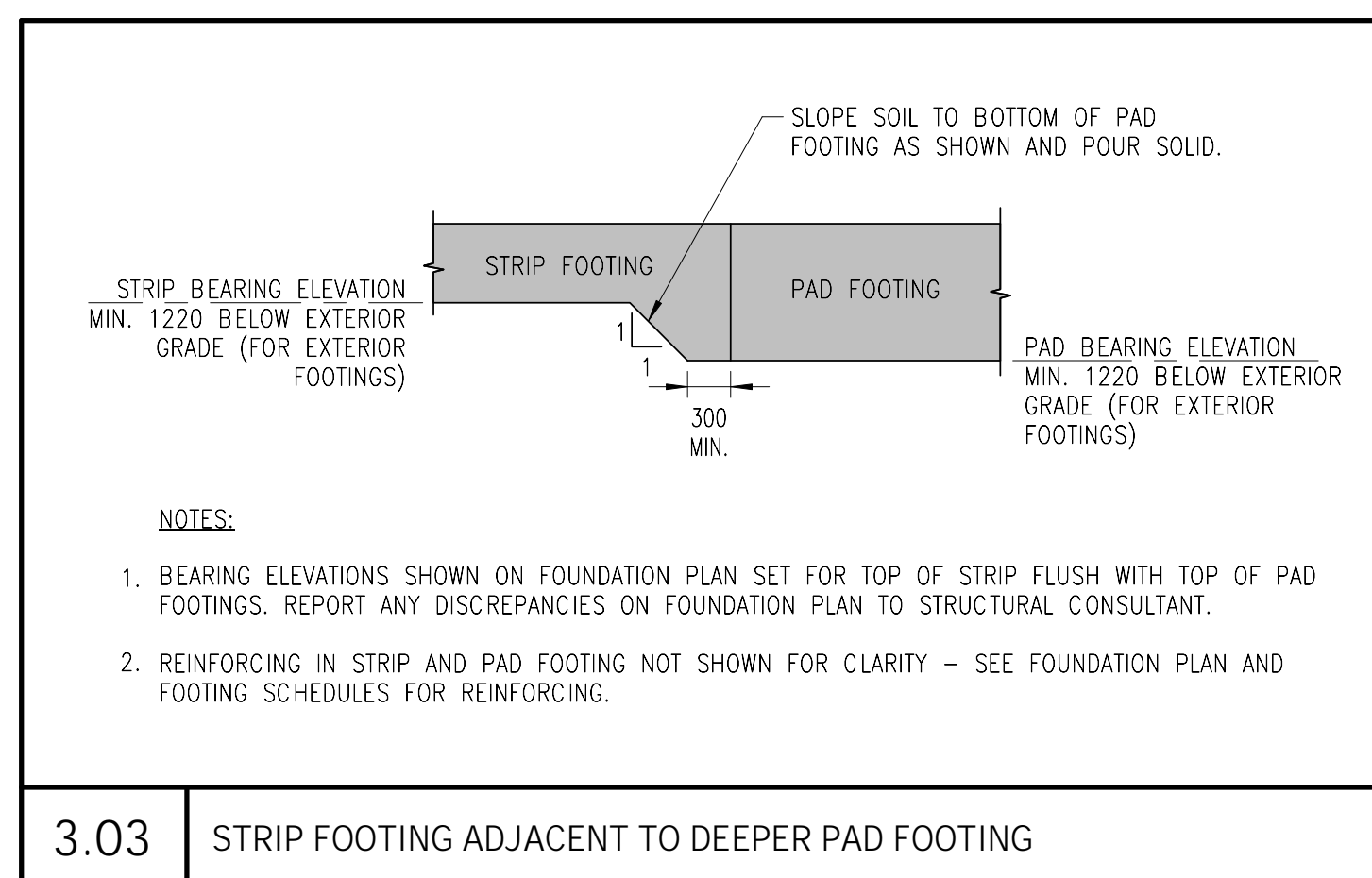
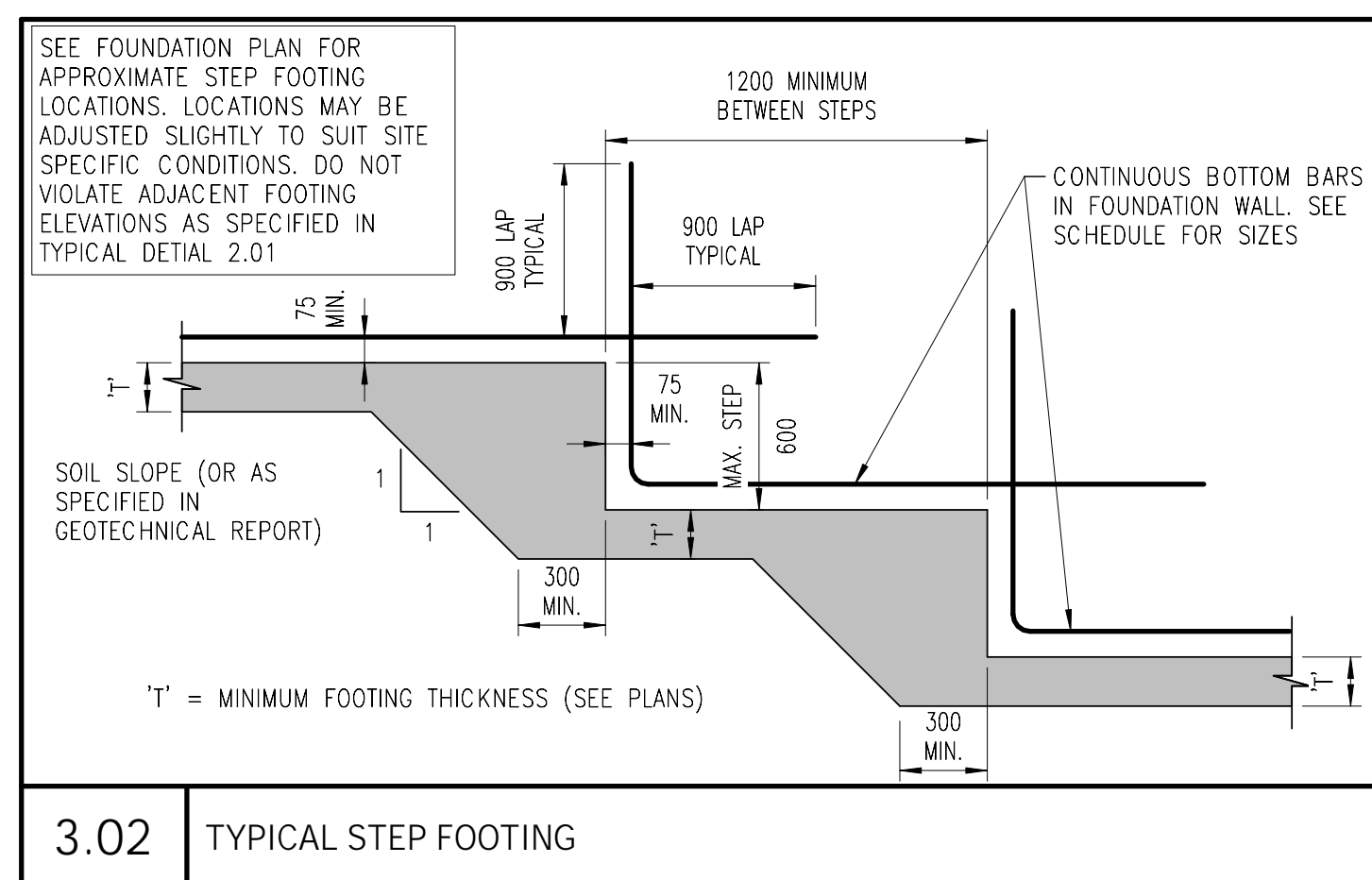
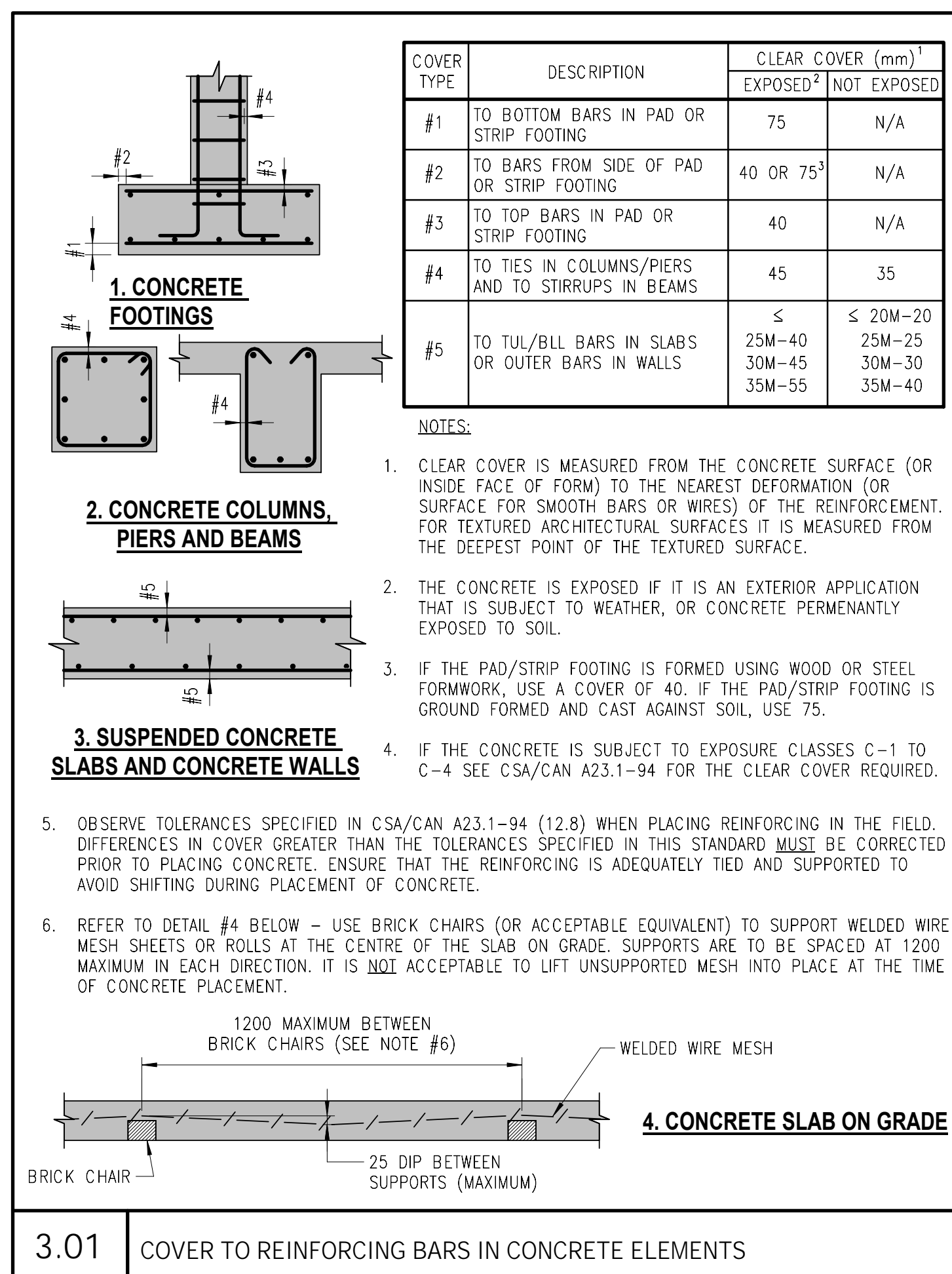
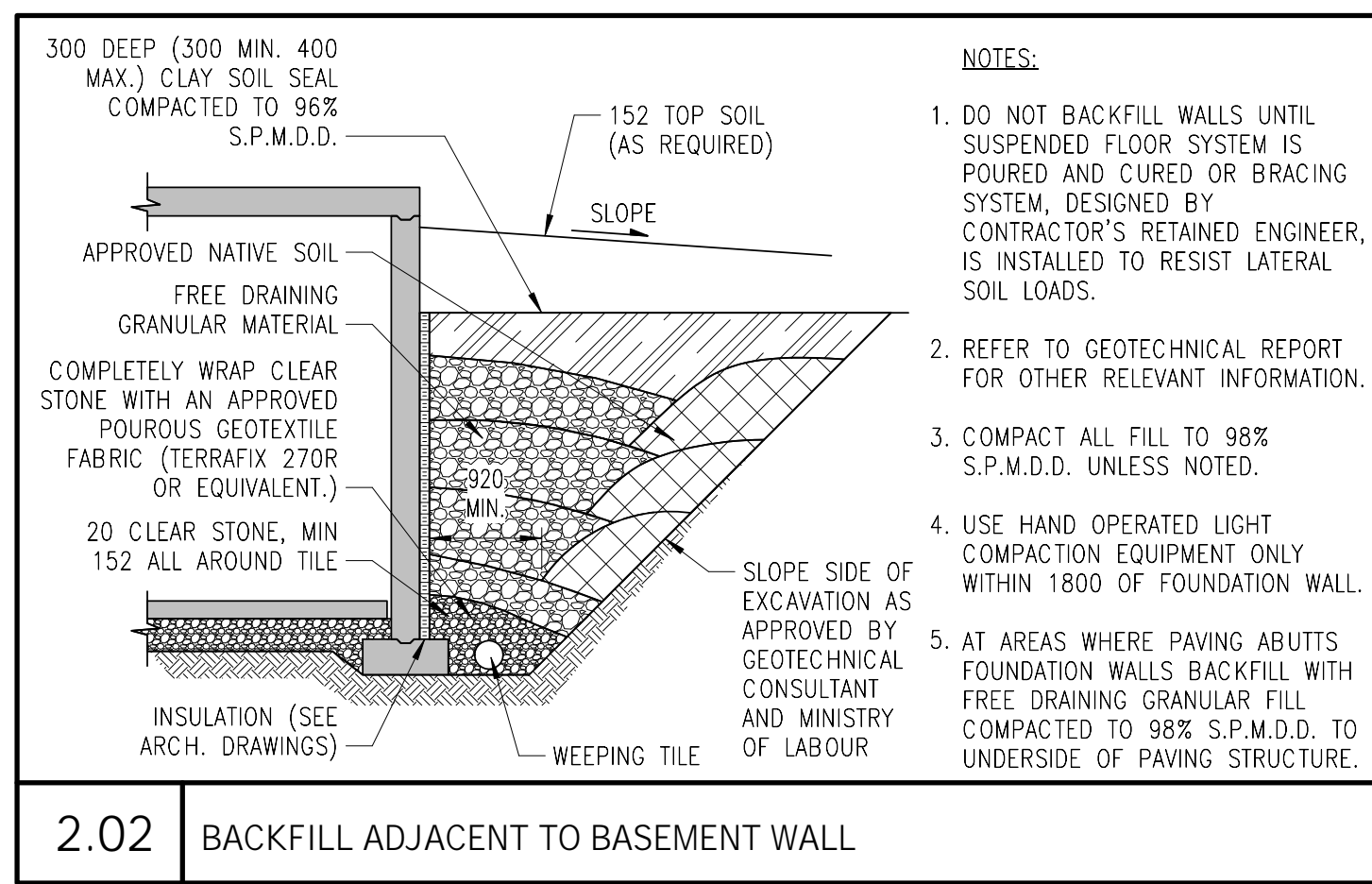
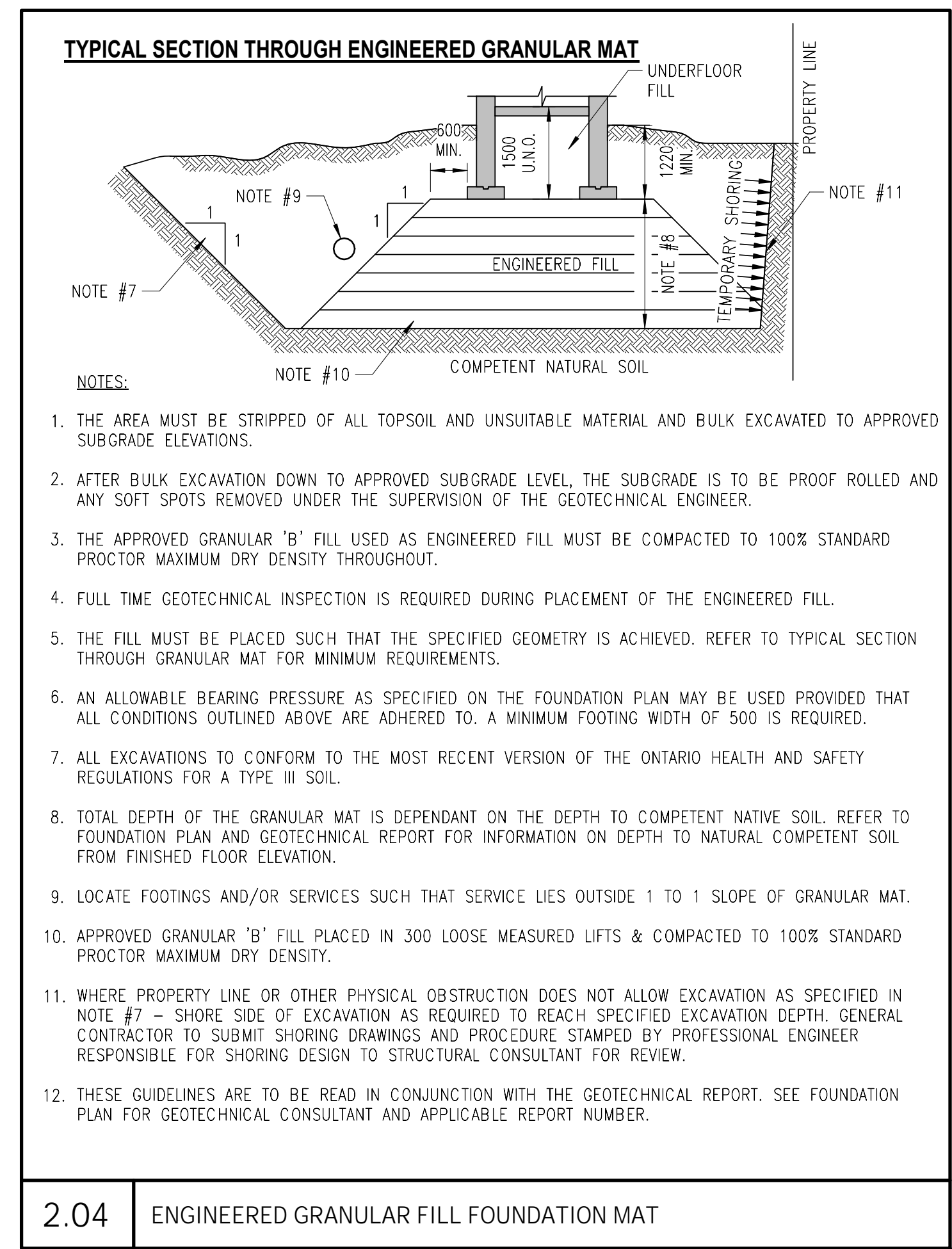
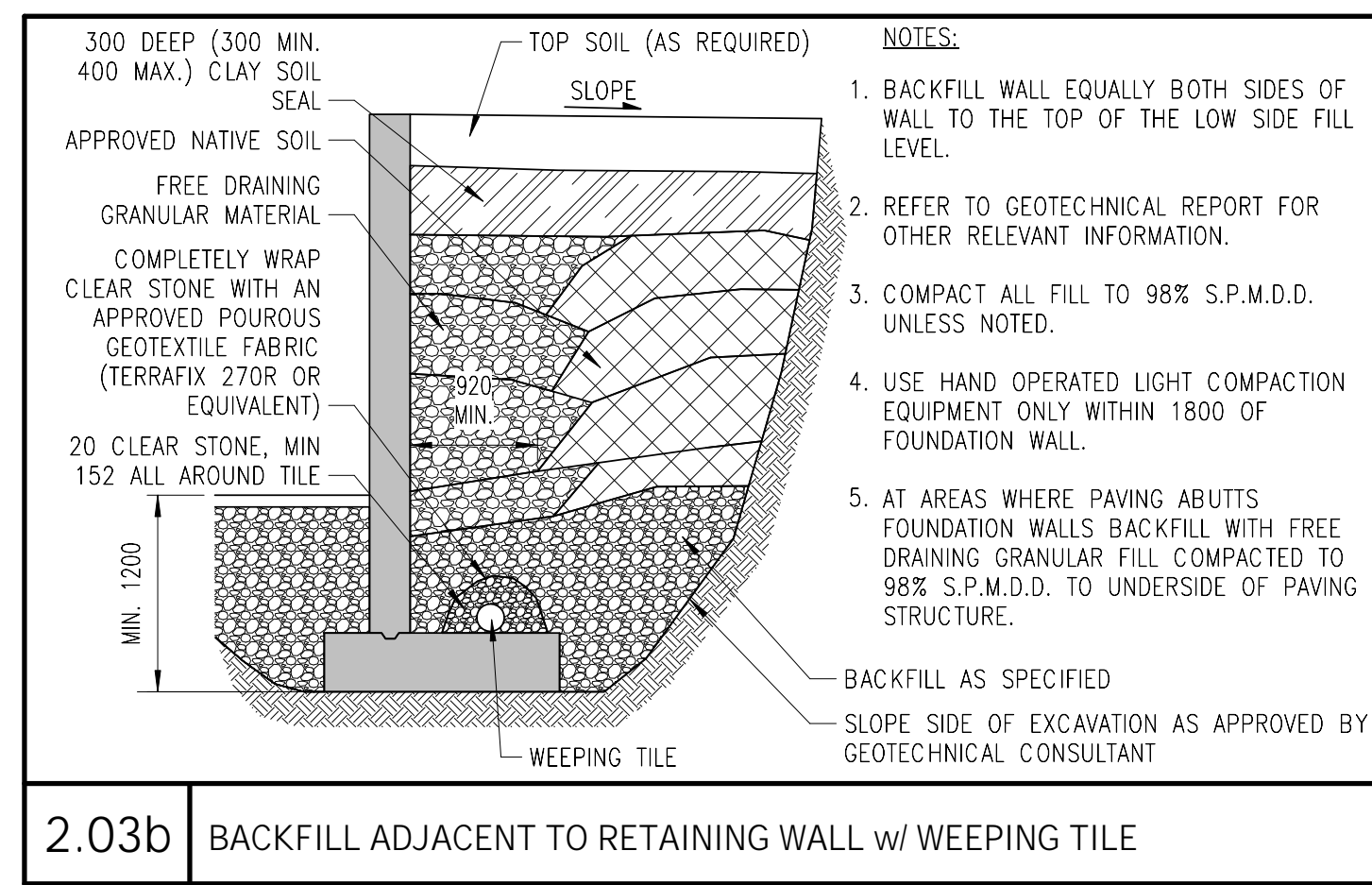
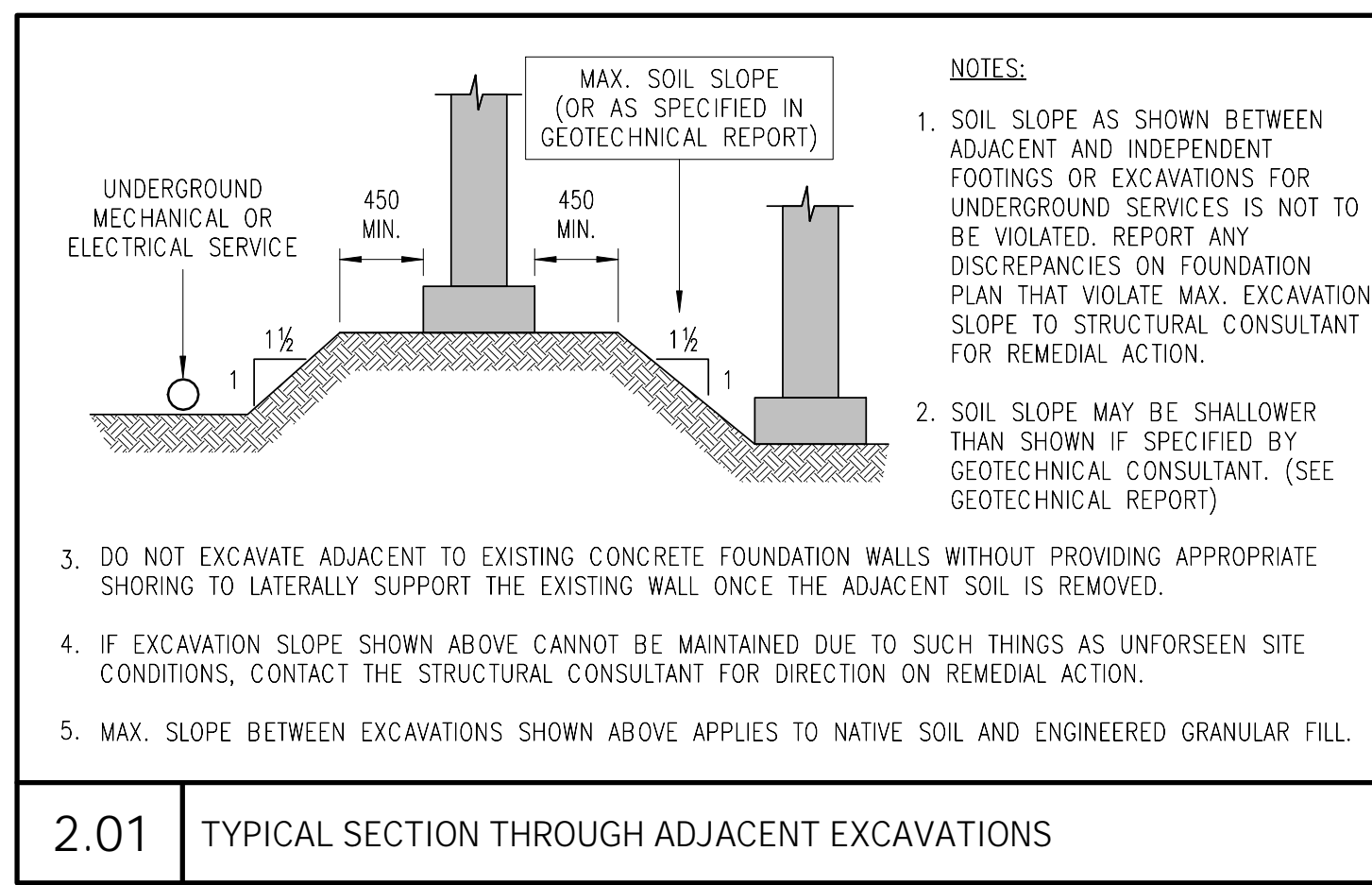
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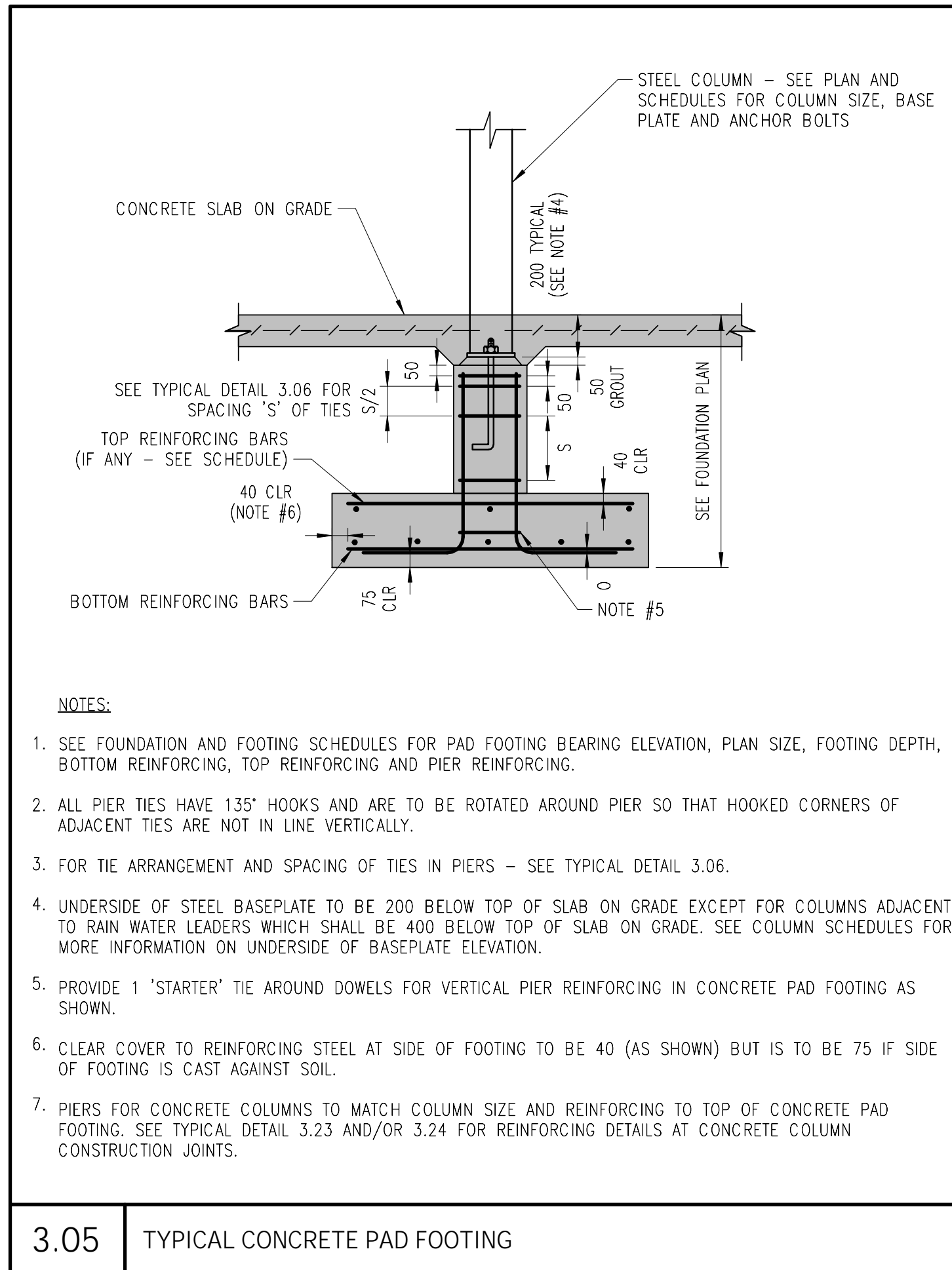
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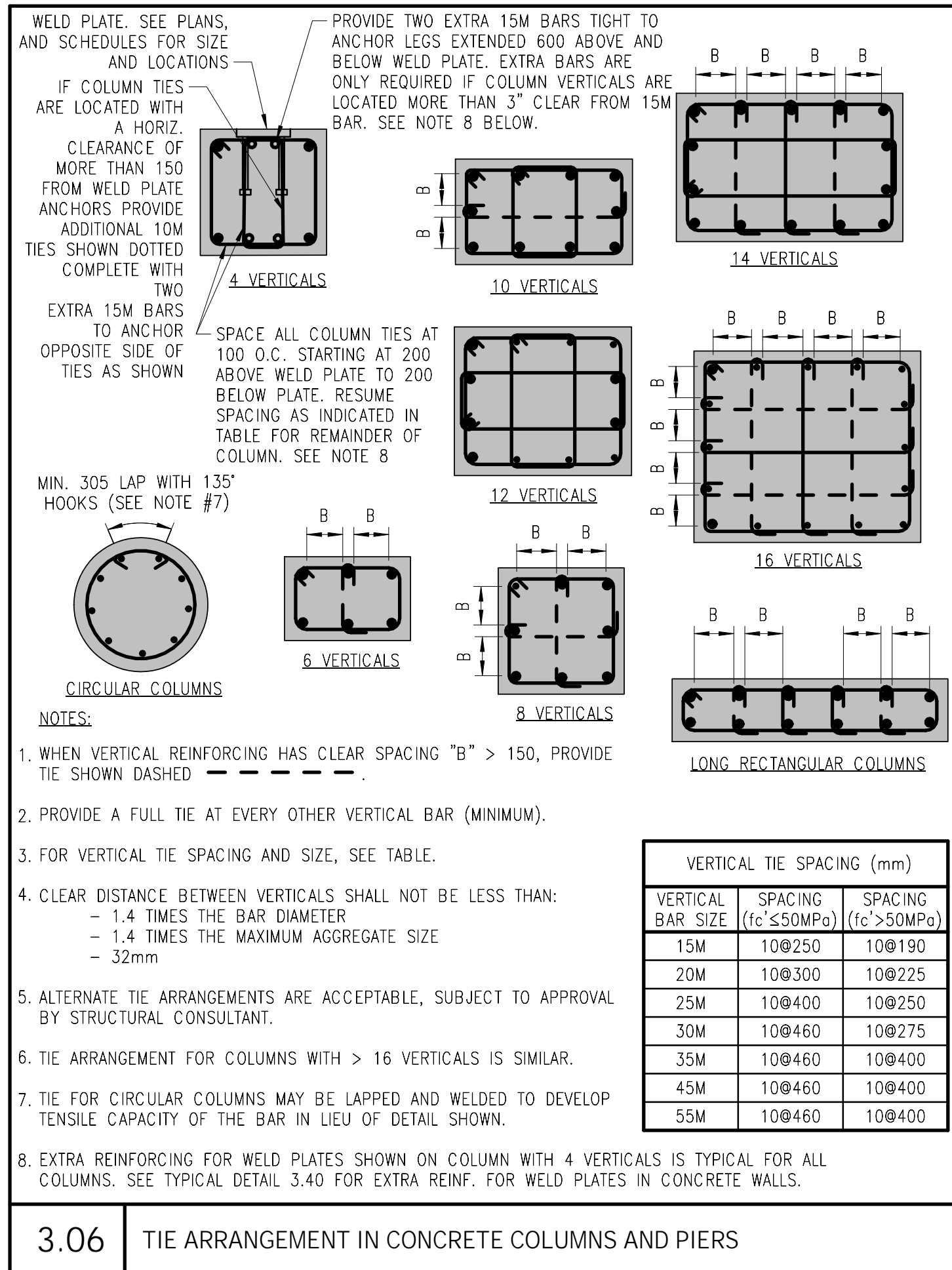
St. Mark CES Addition
240 Ashlum Hill Crescent
Kitchener, ON N2N 1K8

TYPICAL DETAILS

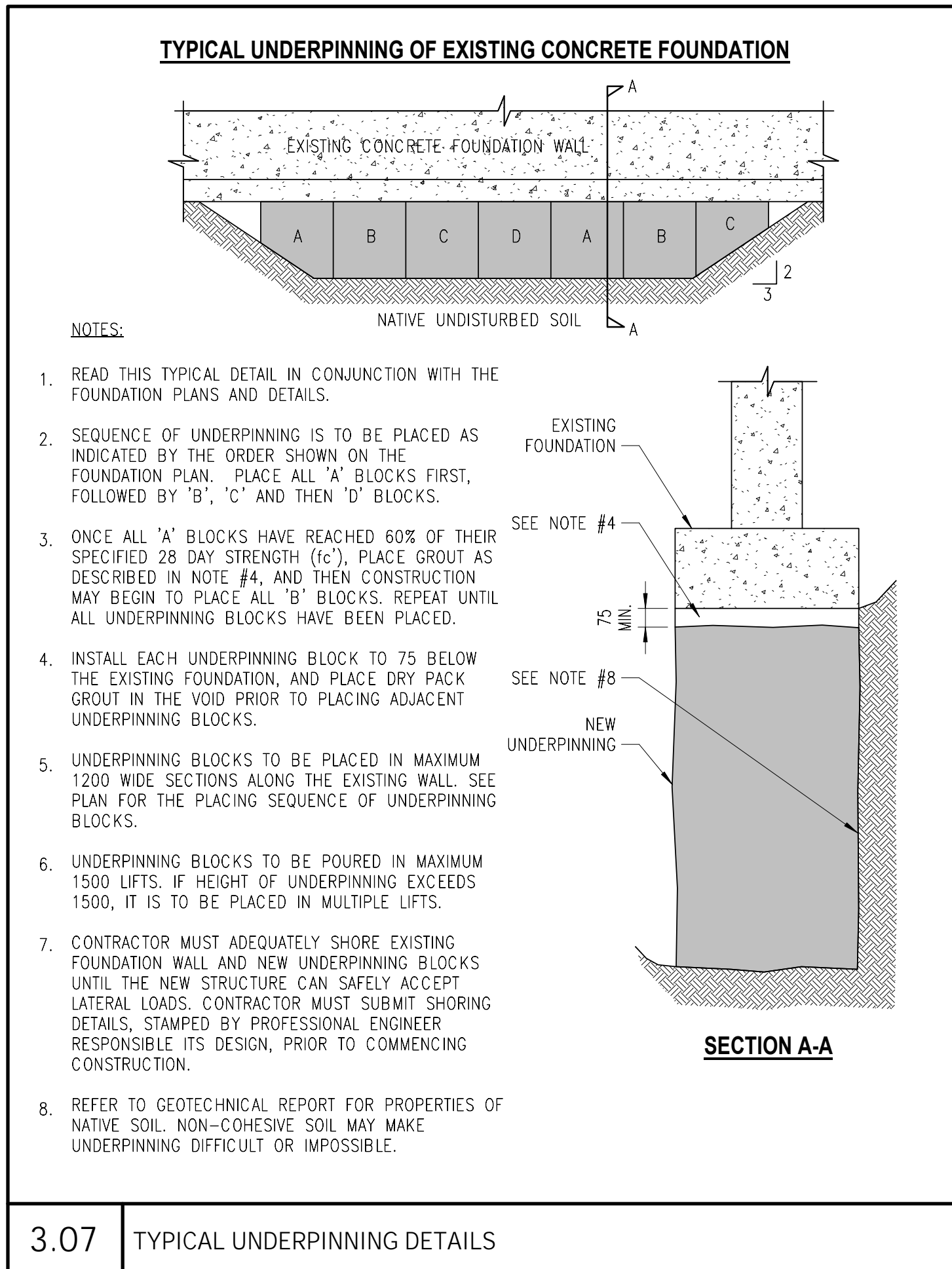
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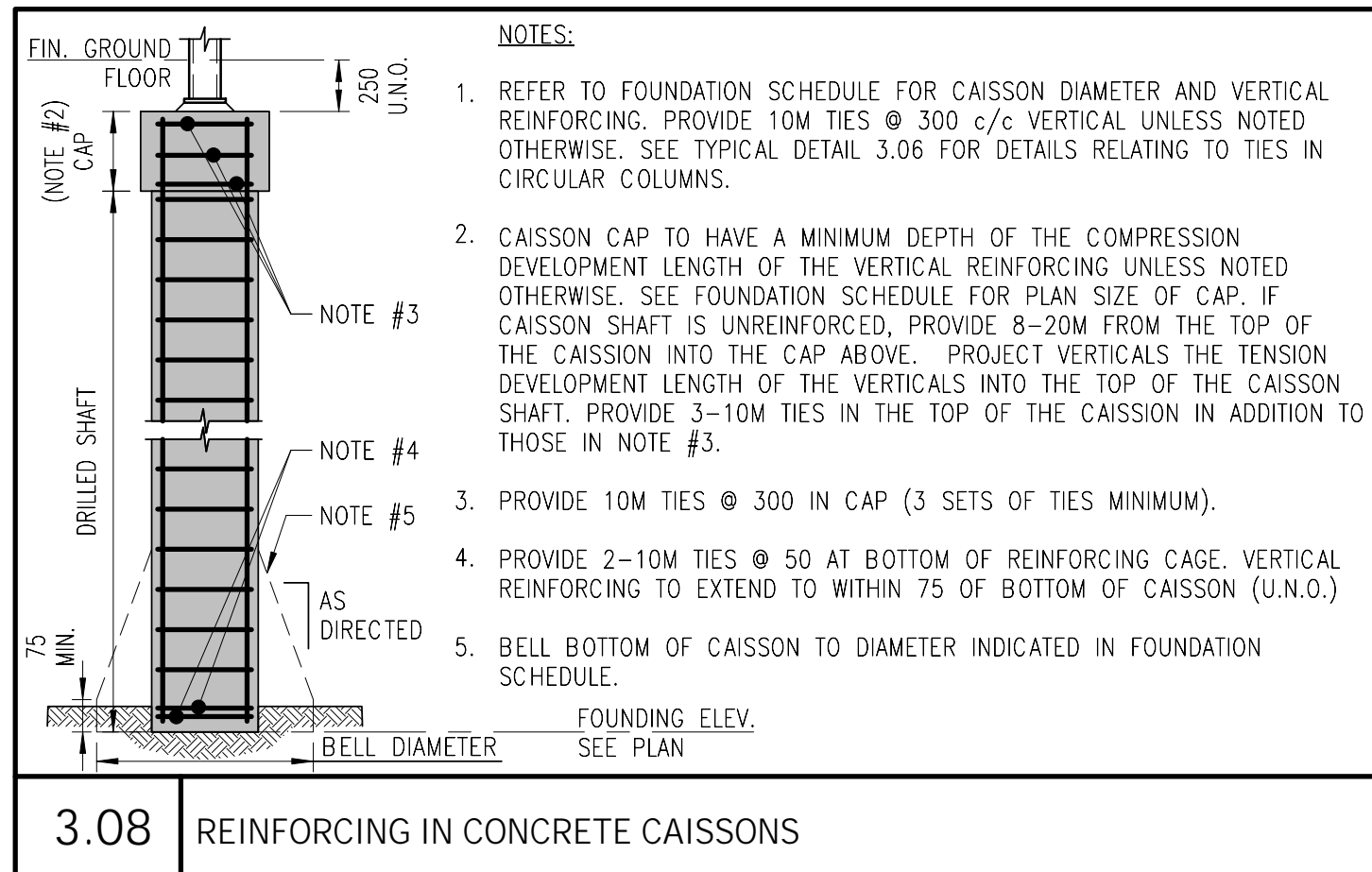
3.05 TYPICAL CONCRETE PAD FOOTING



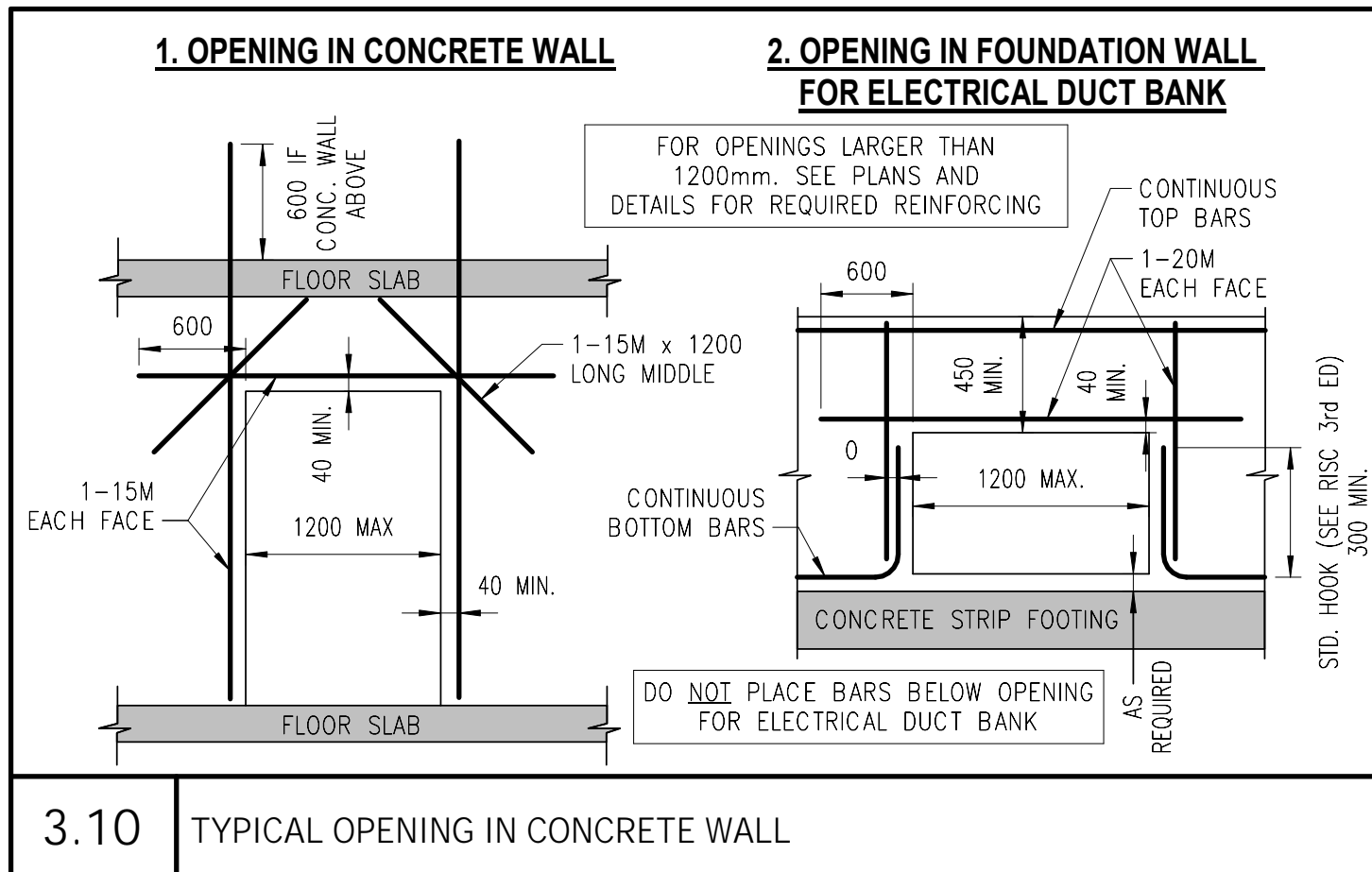
3.06 TIE ARRANGEMENT IN CONCRETE COLUMNS AND PIERS



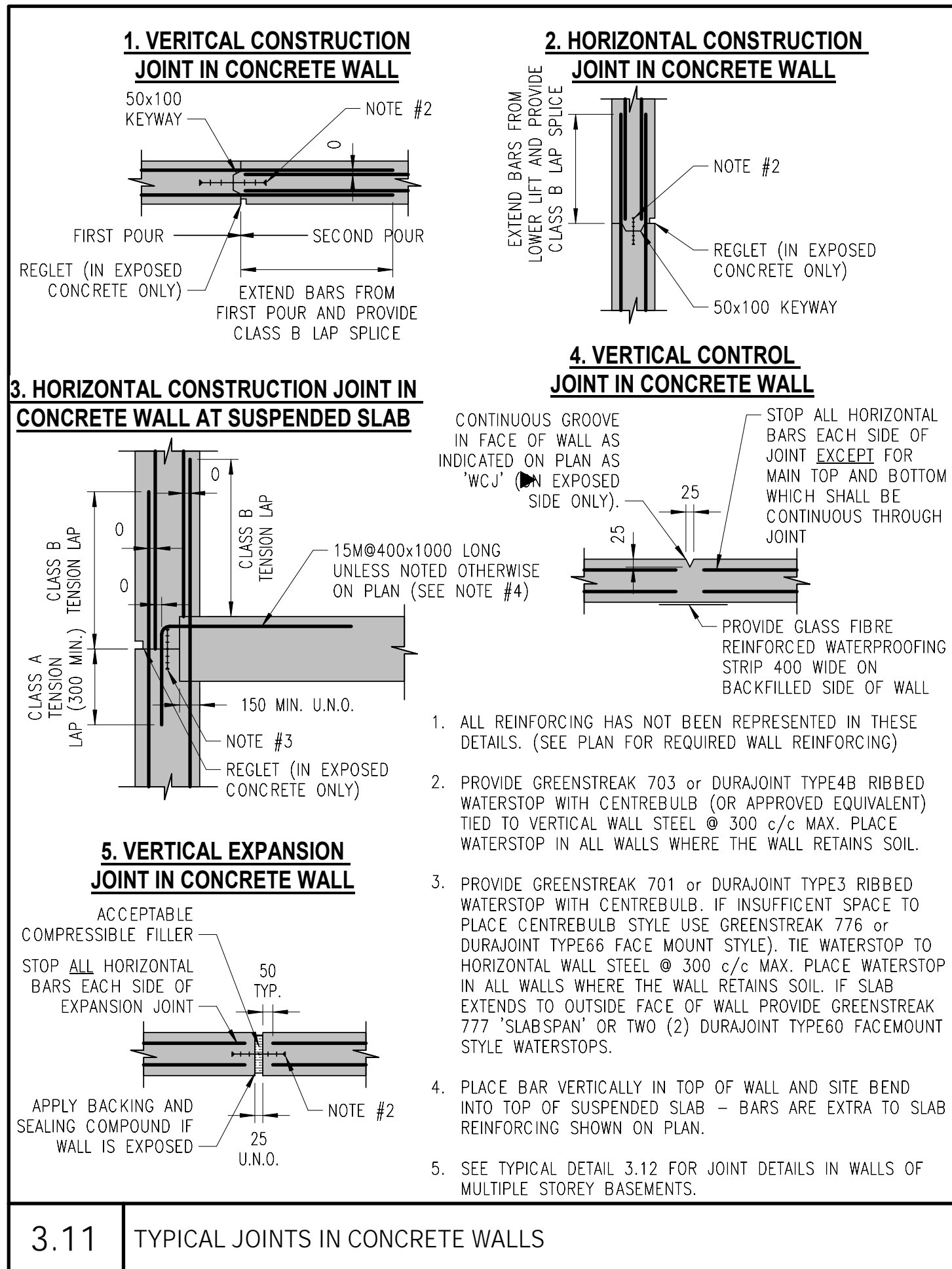
3.07 TYPICAL UNDERPINNING DETAILS



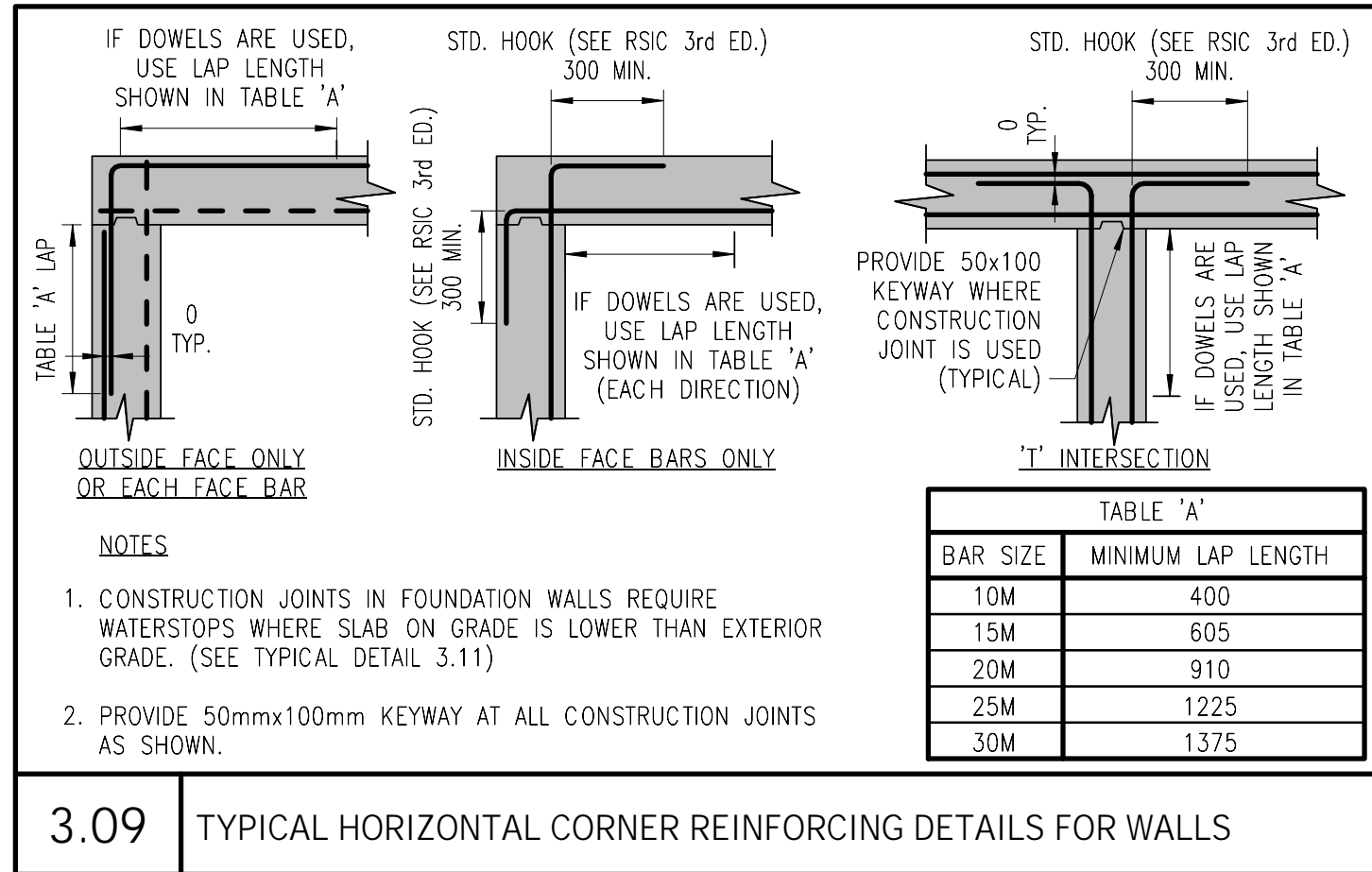
3.08 REINFORCING IN CONCRETE CAISSONS



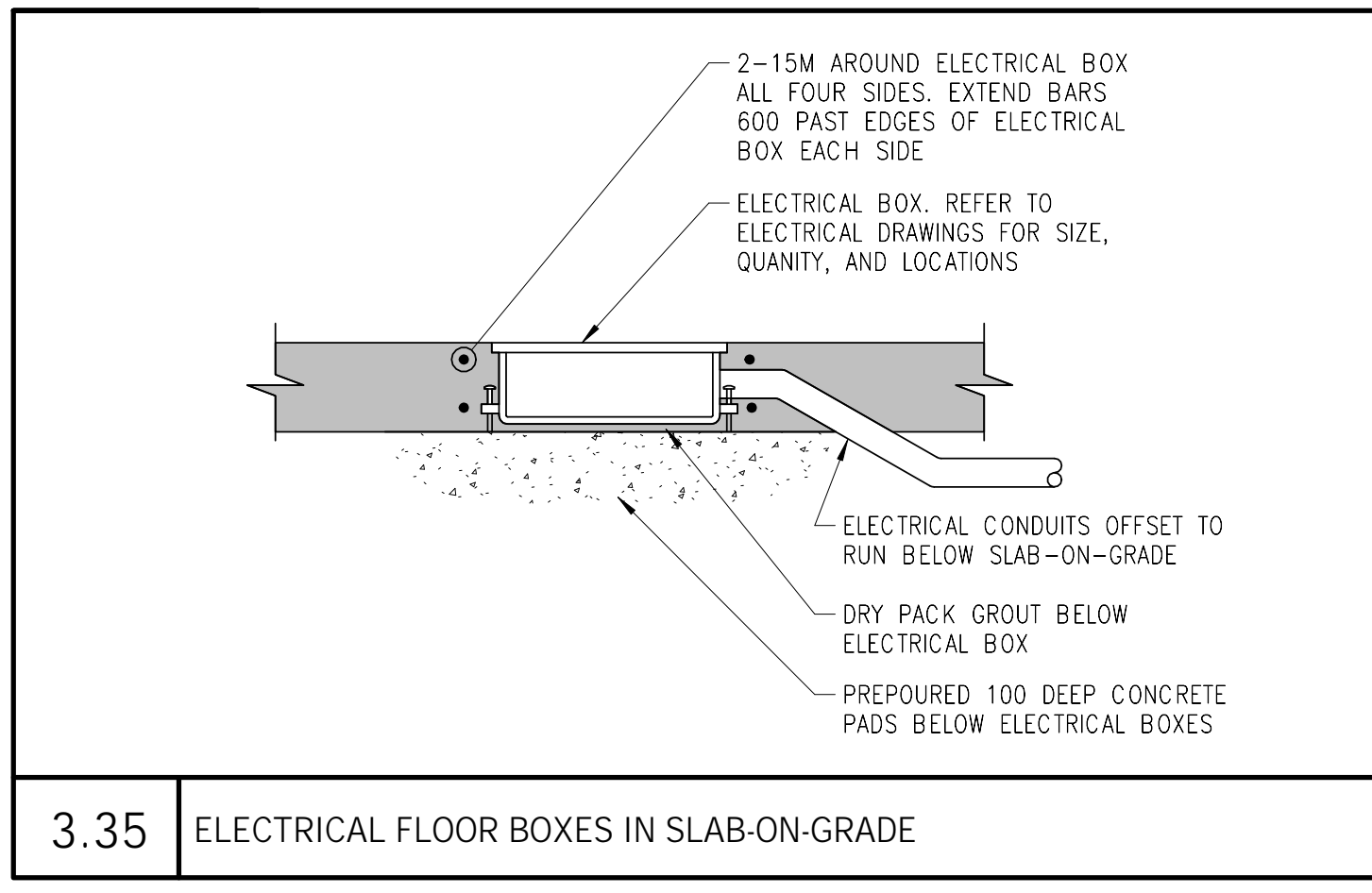
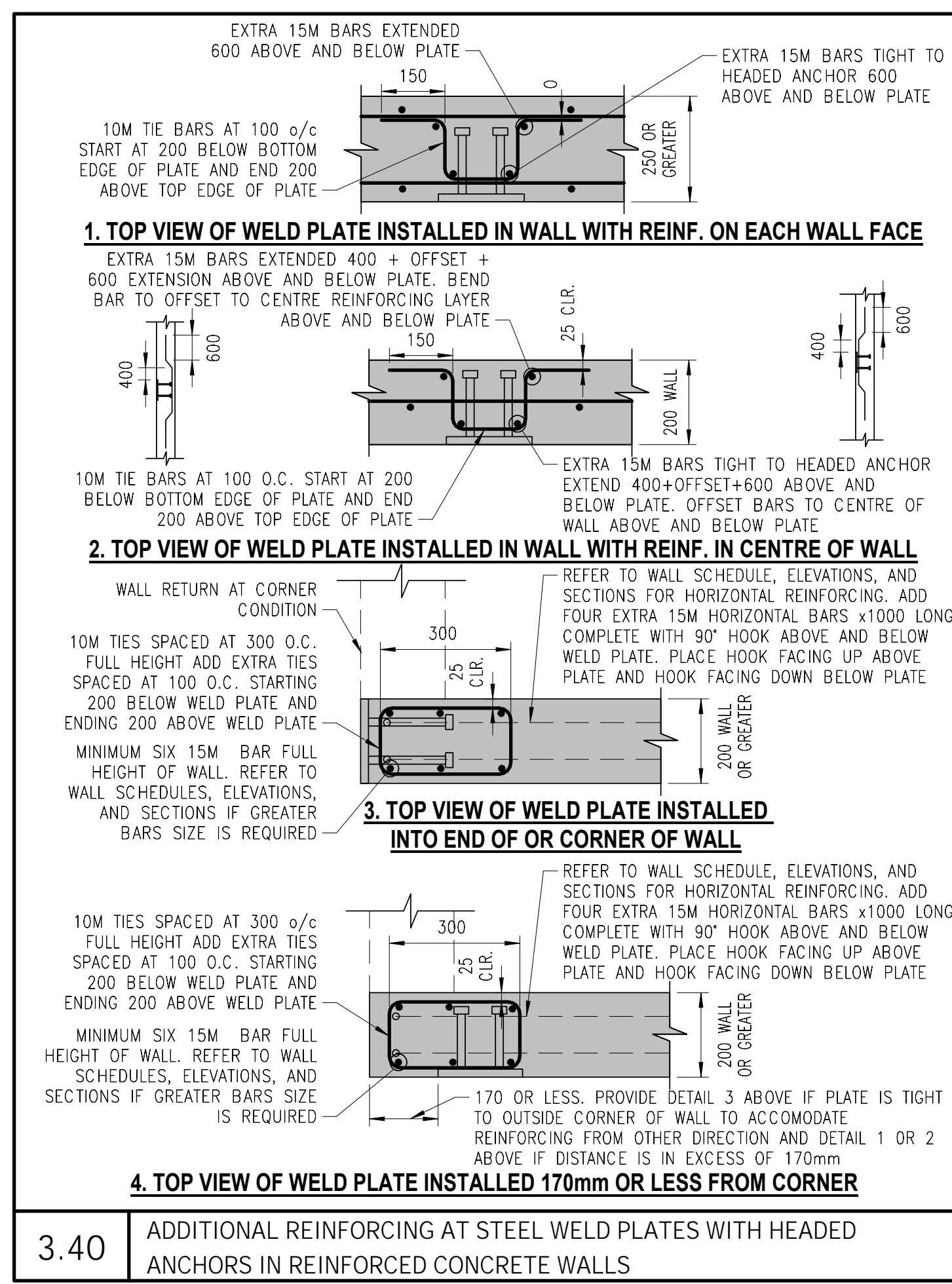
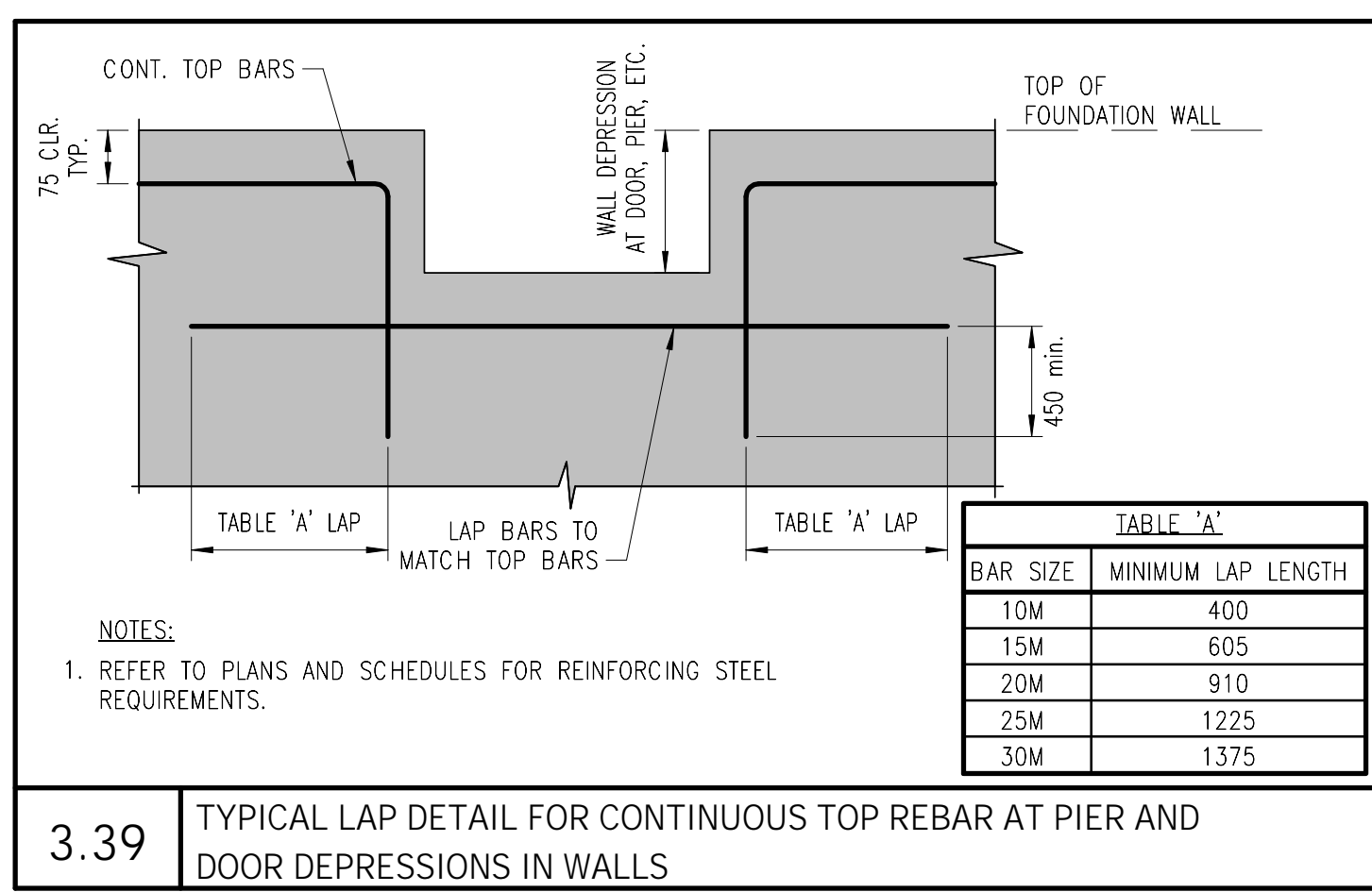
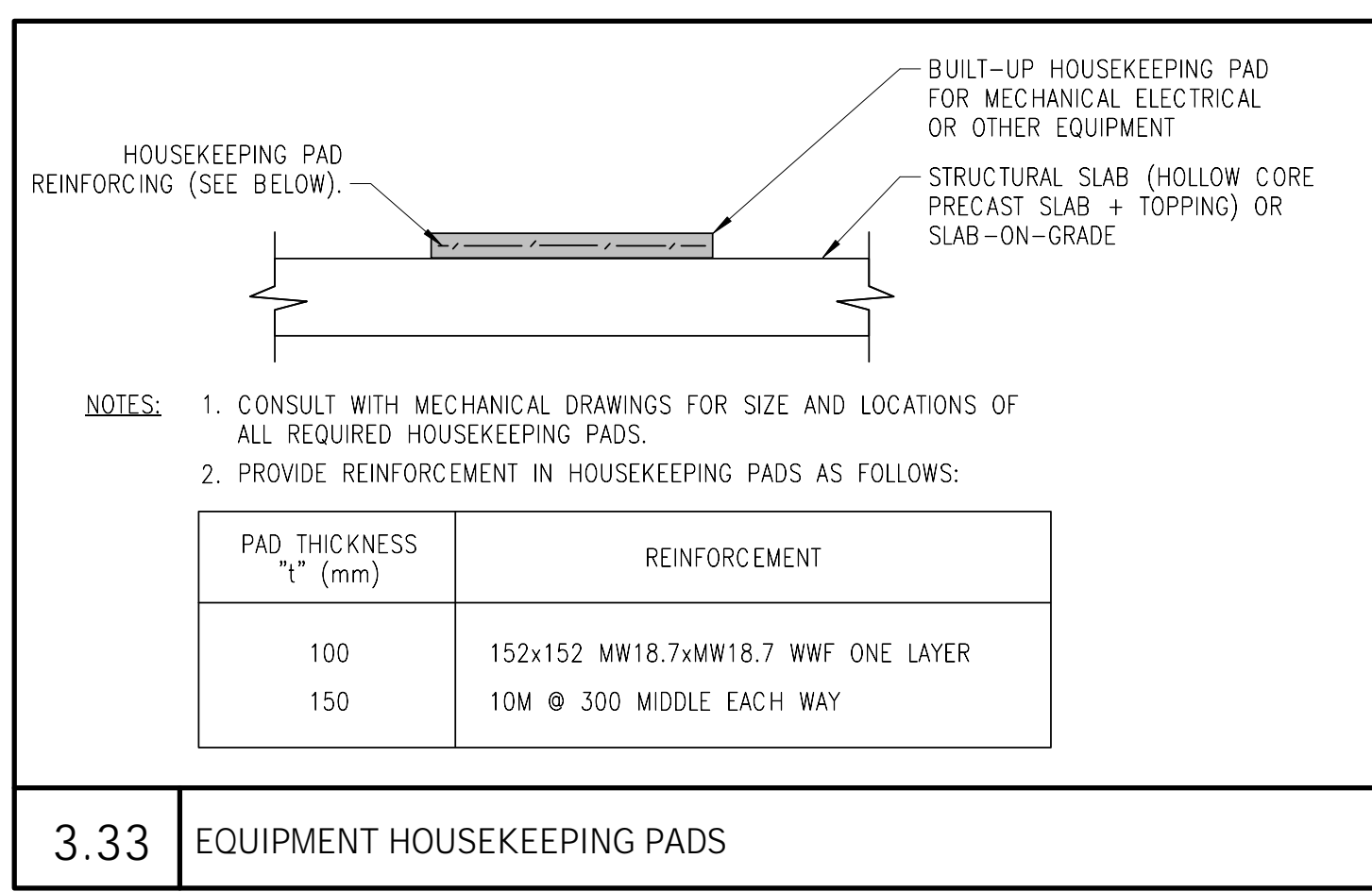
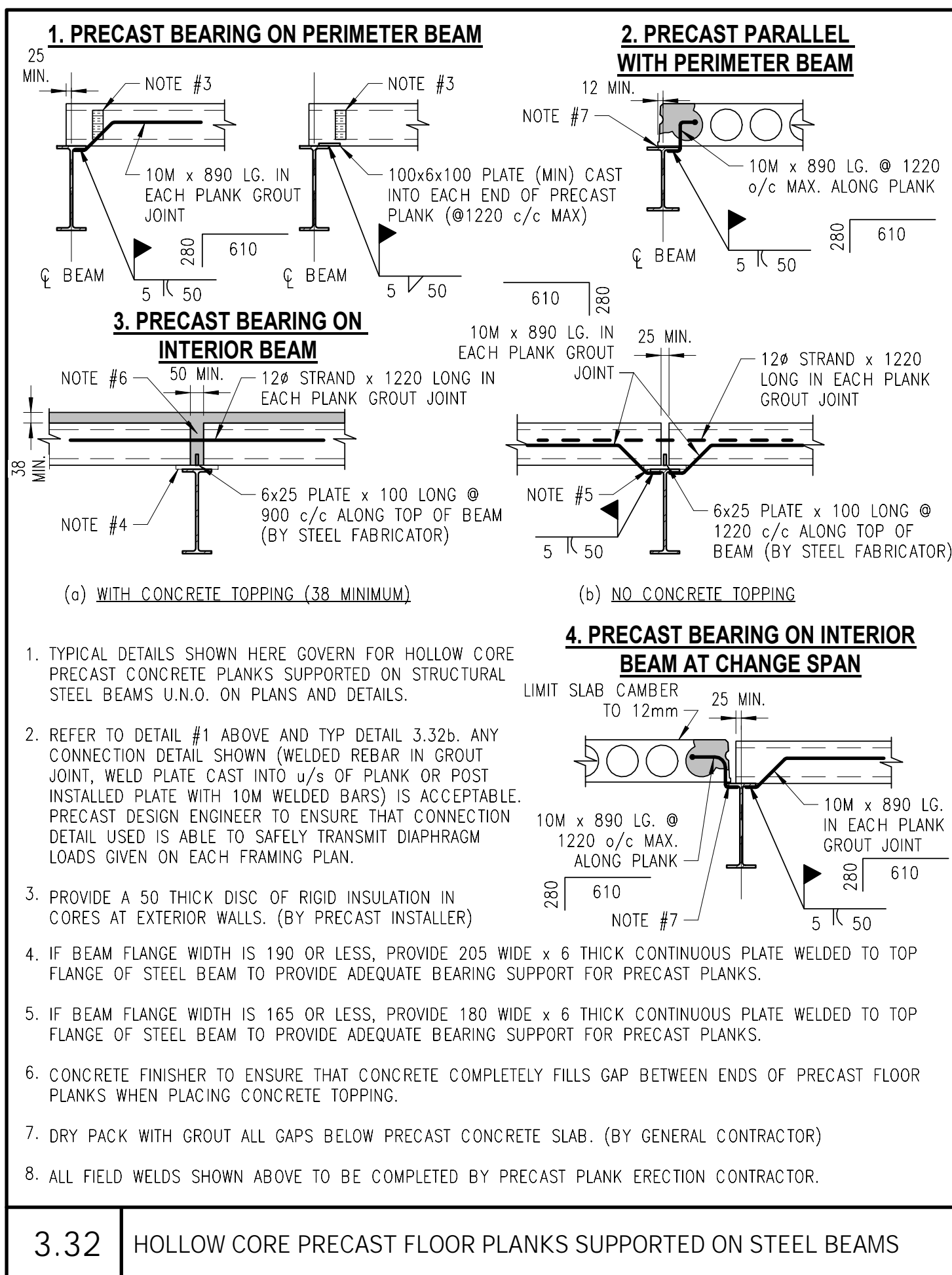
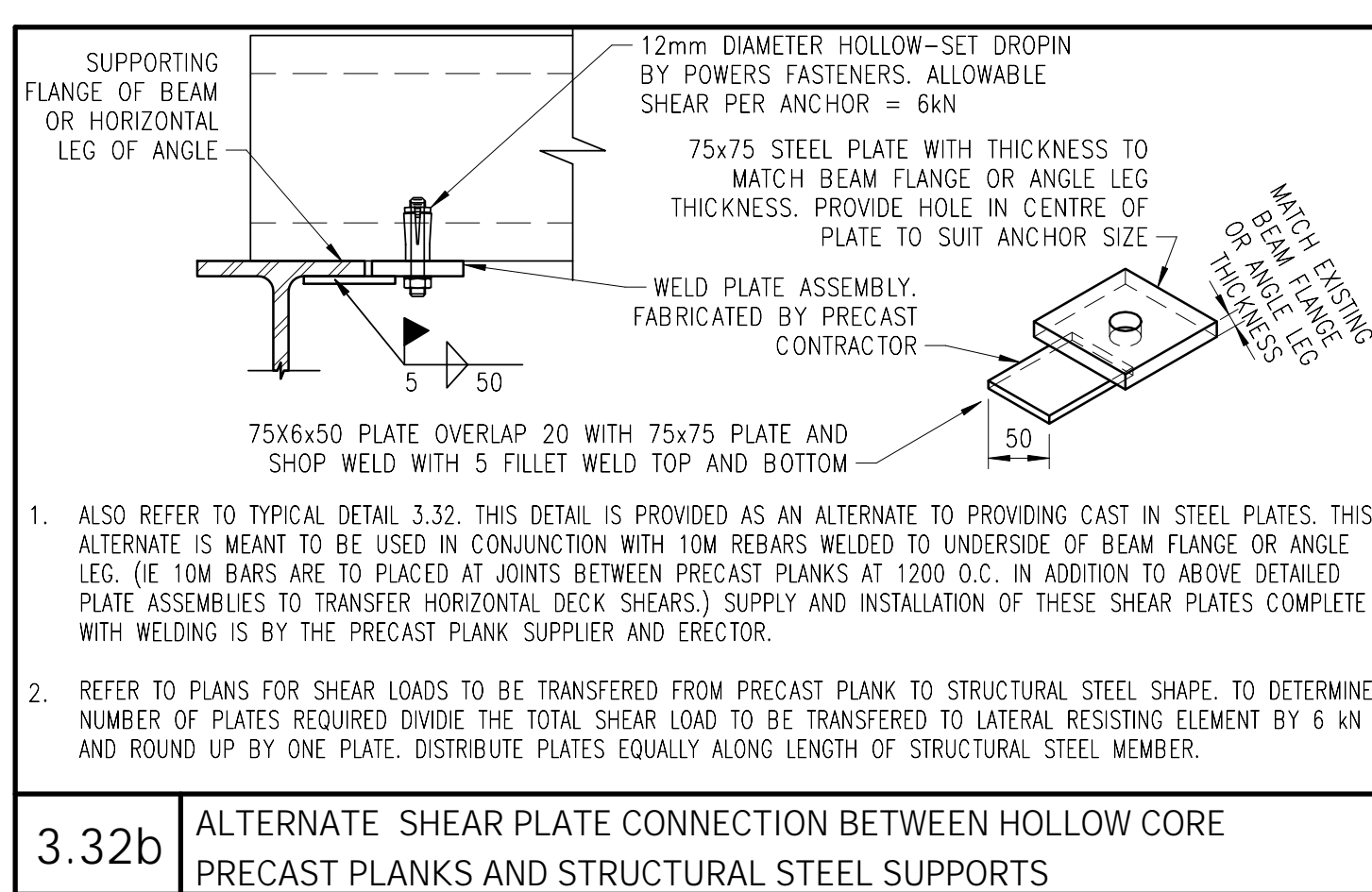
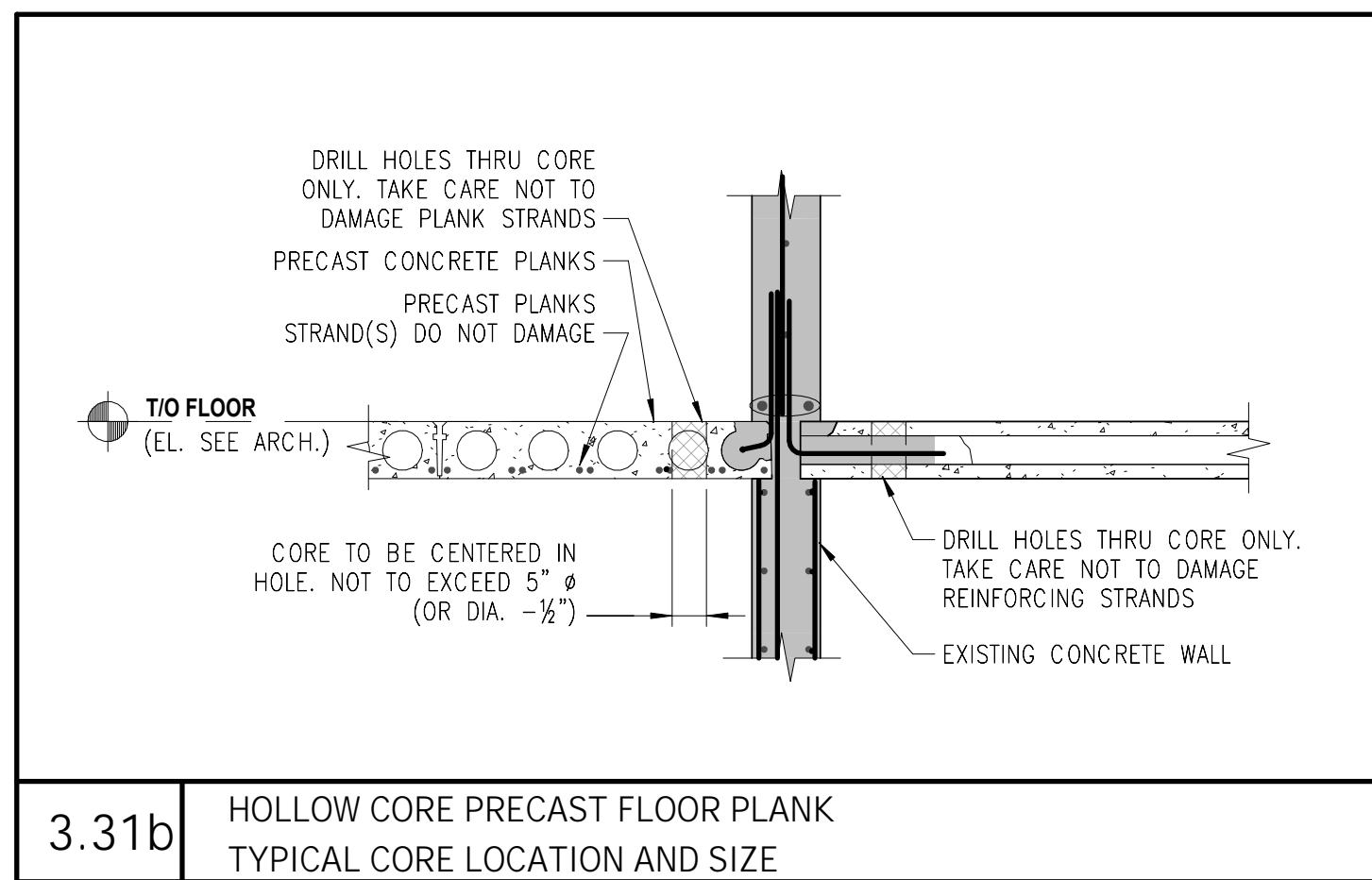
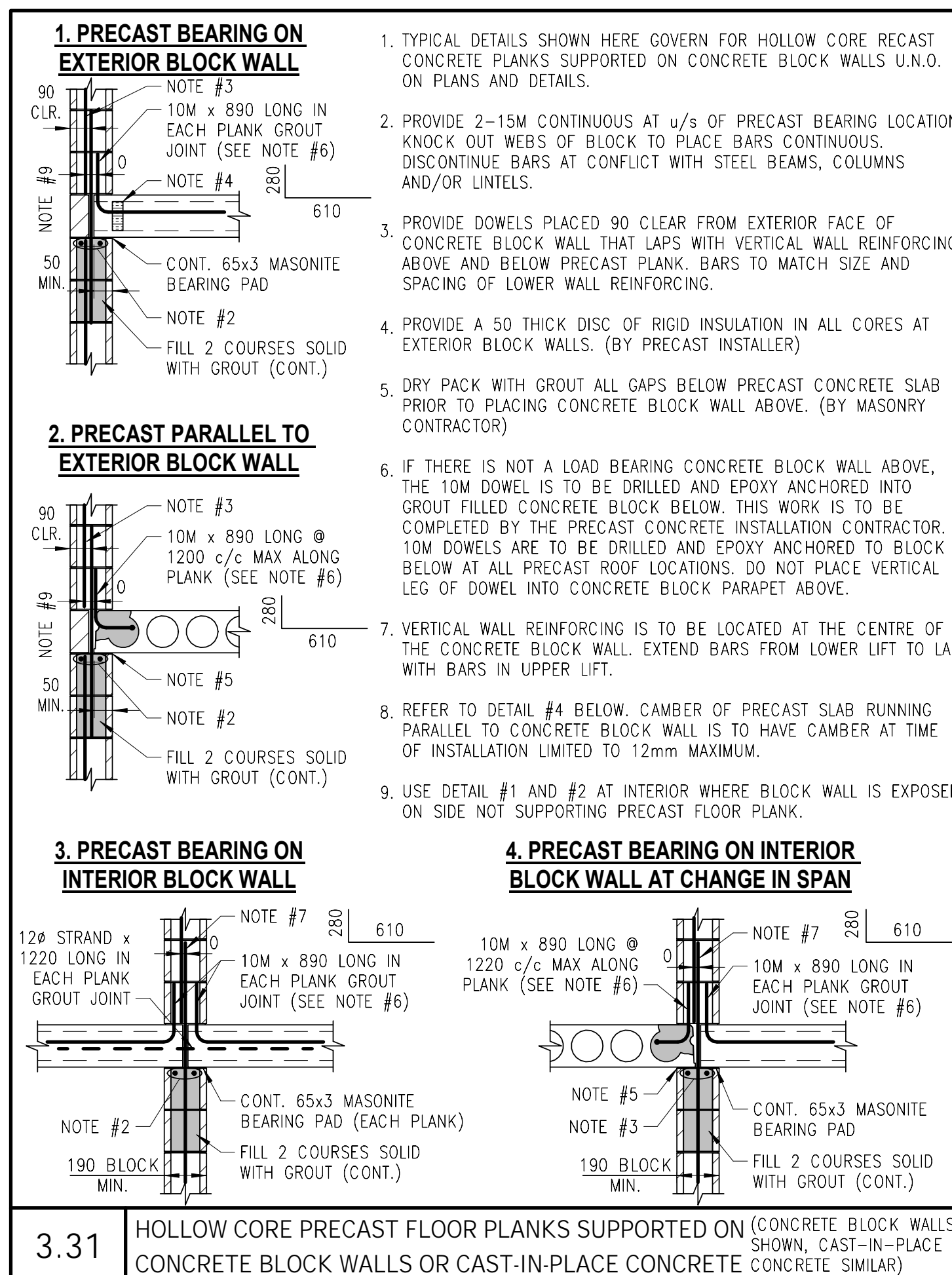
3.10 TYPICAL OPENING IN CONCRETE WALL



3.11 TYPICAL JOINTS IN CONCRETE WALLS



3.09 TYPICAL HORIZONTAL CORNER REINFORCING DETAILS FOR WALLS



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St. Mark CES Addition

240 Autumn Hill Crescent
Kitchener, ON N2N 1K8

TYPICAL DETAILS

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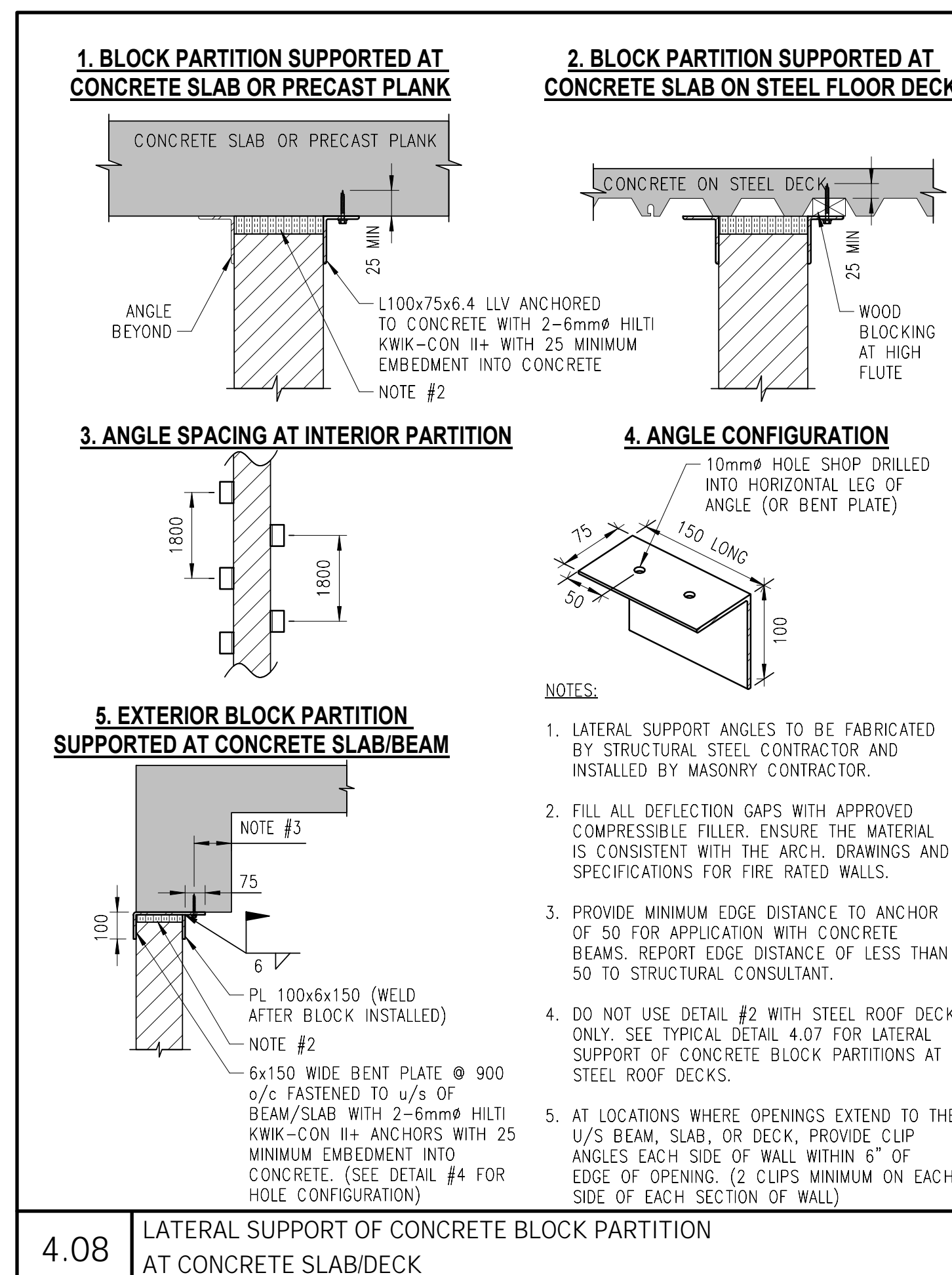
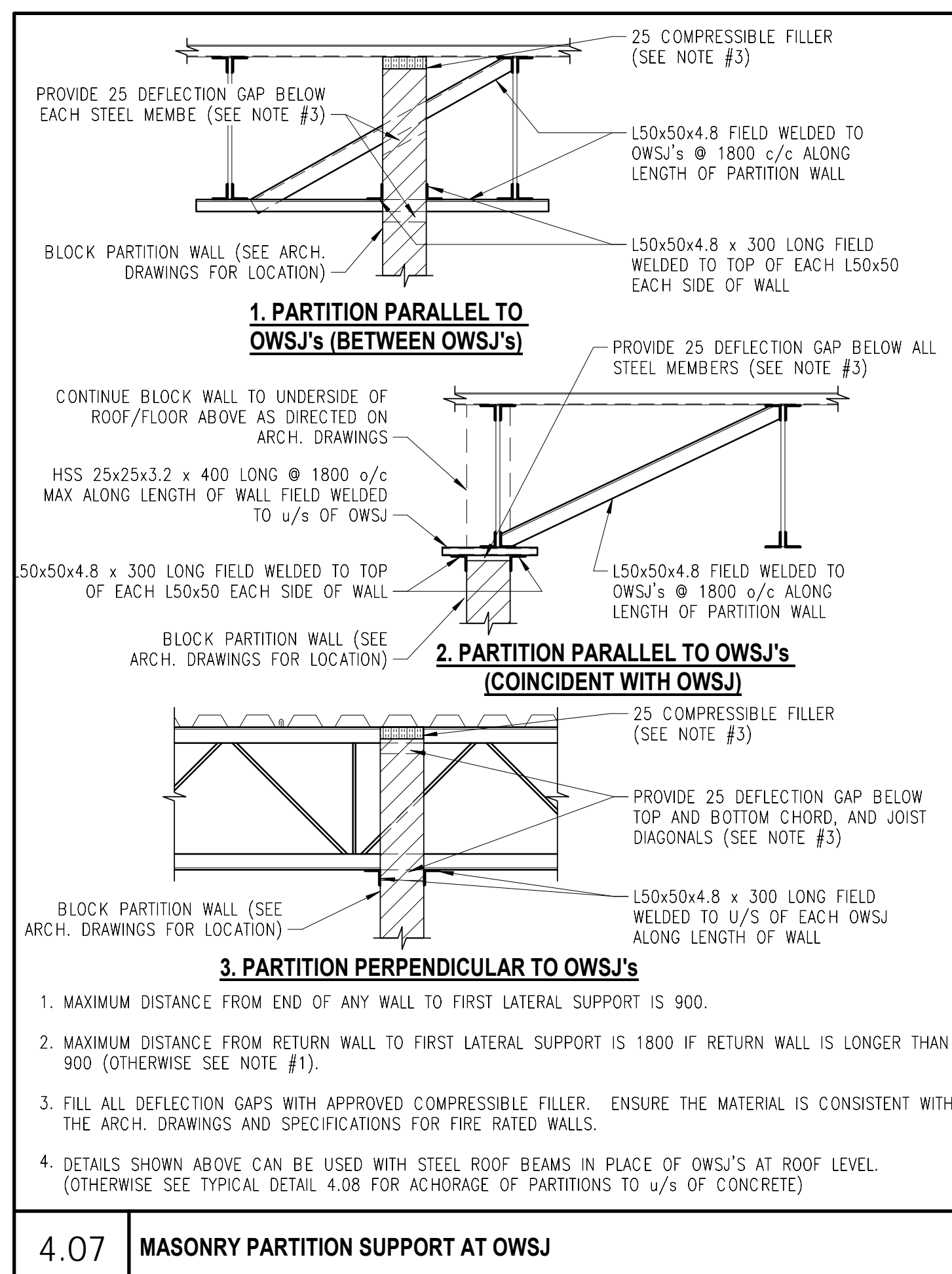
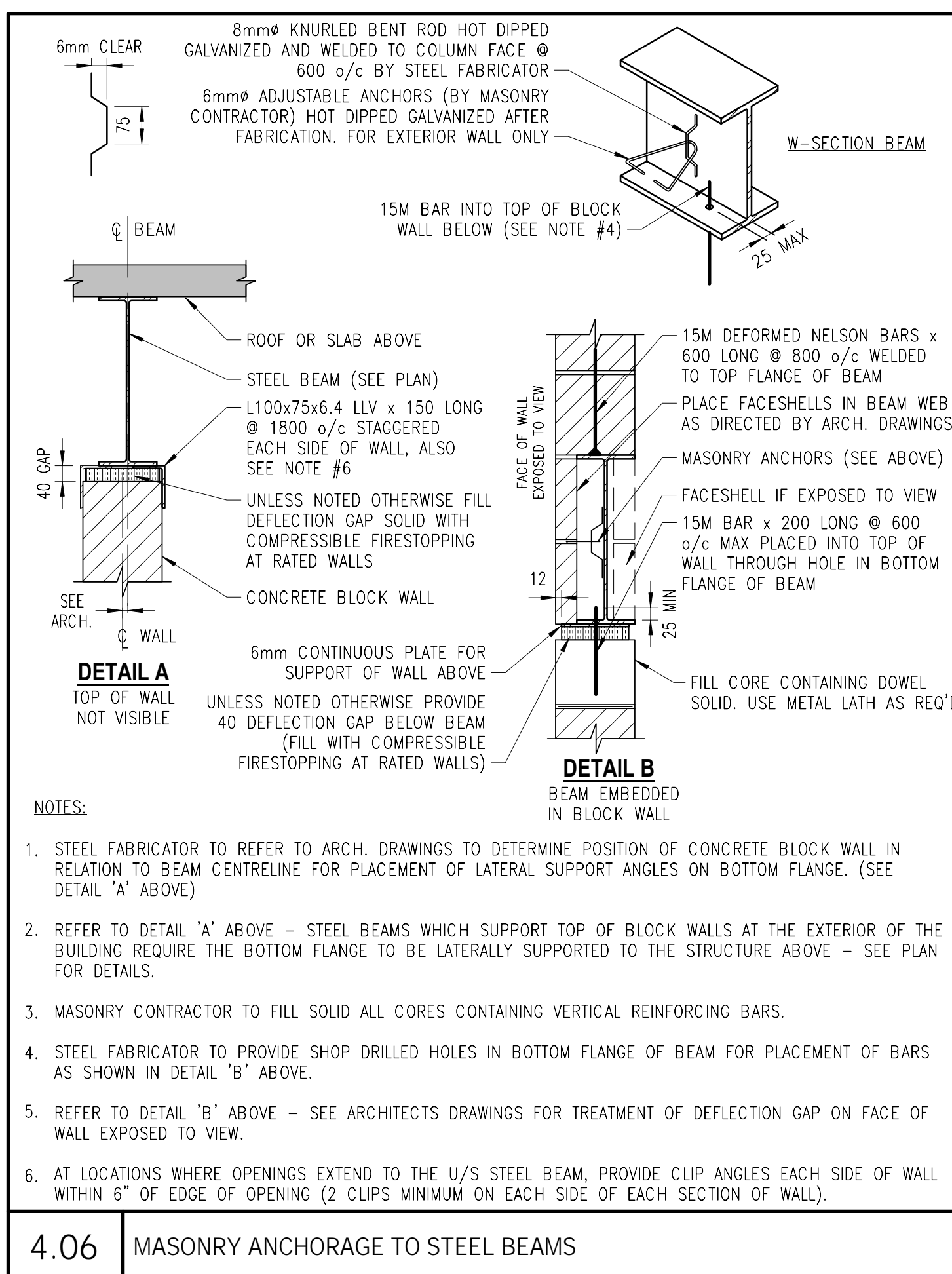
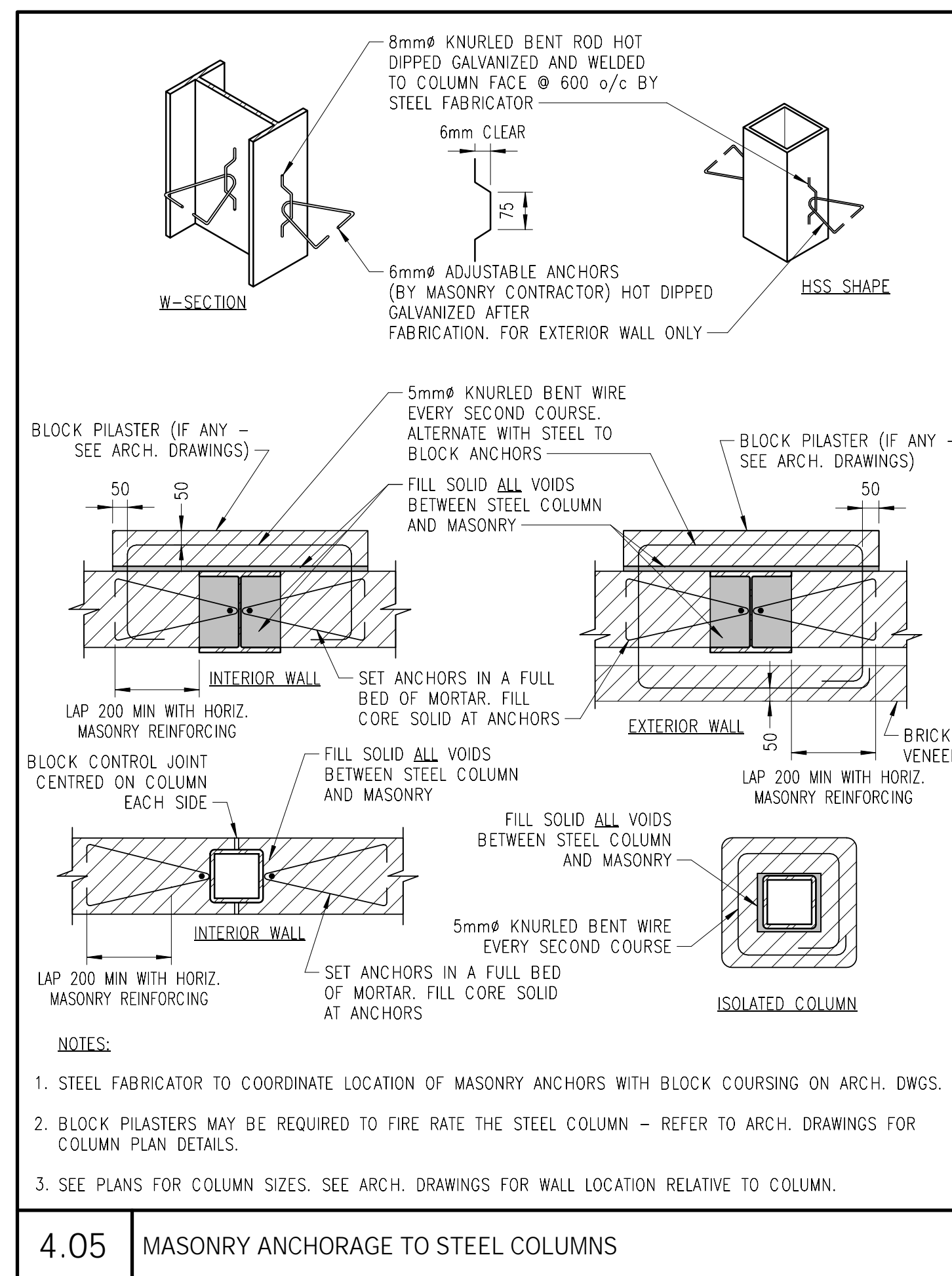
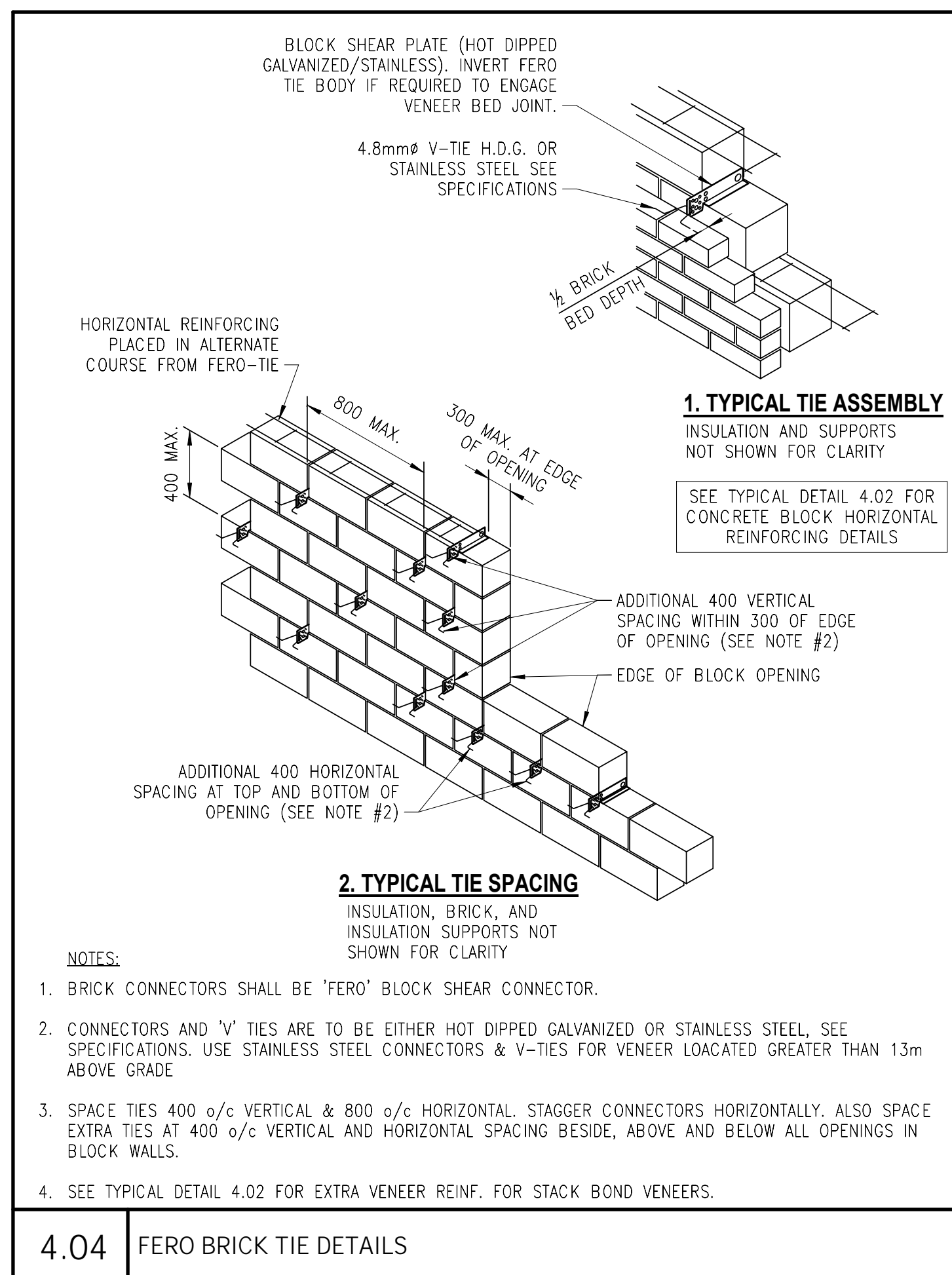
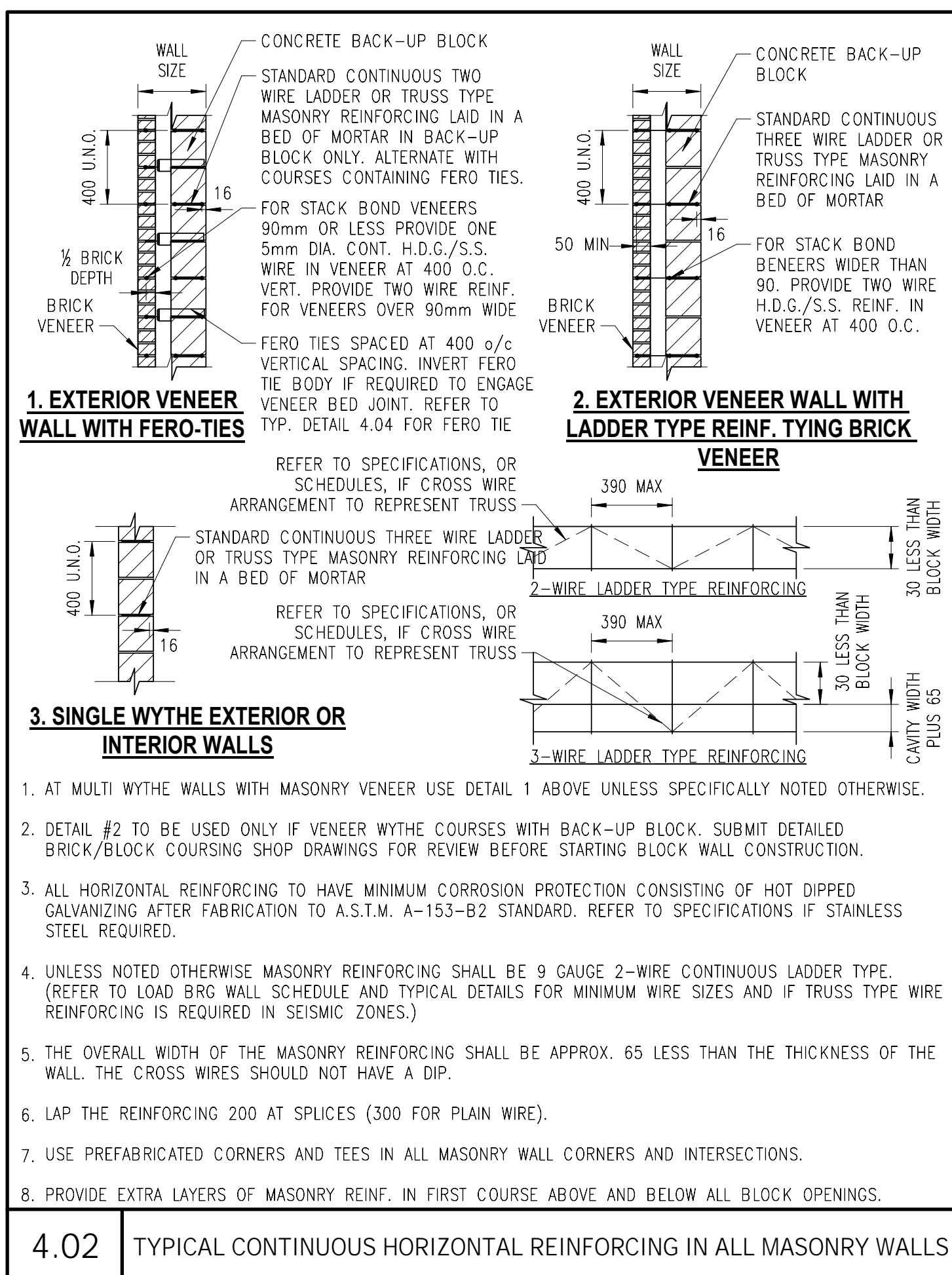
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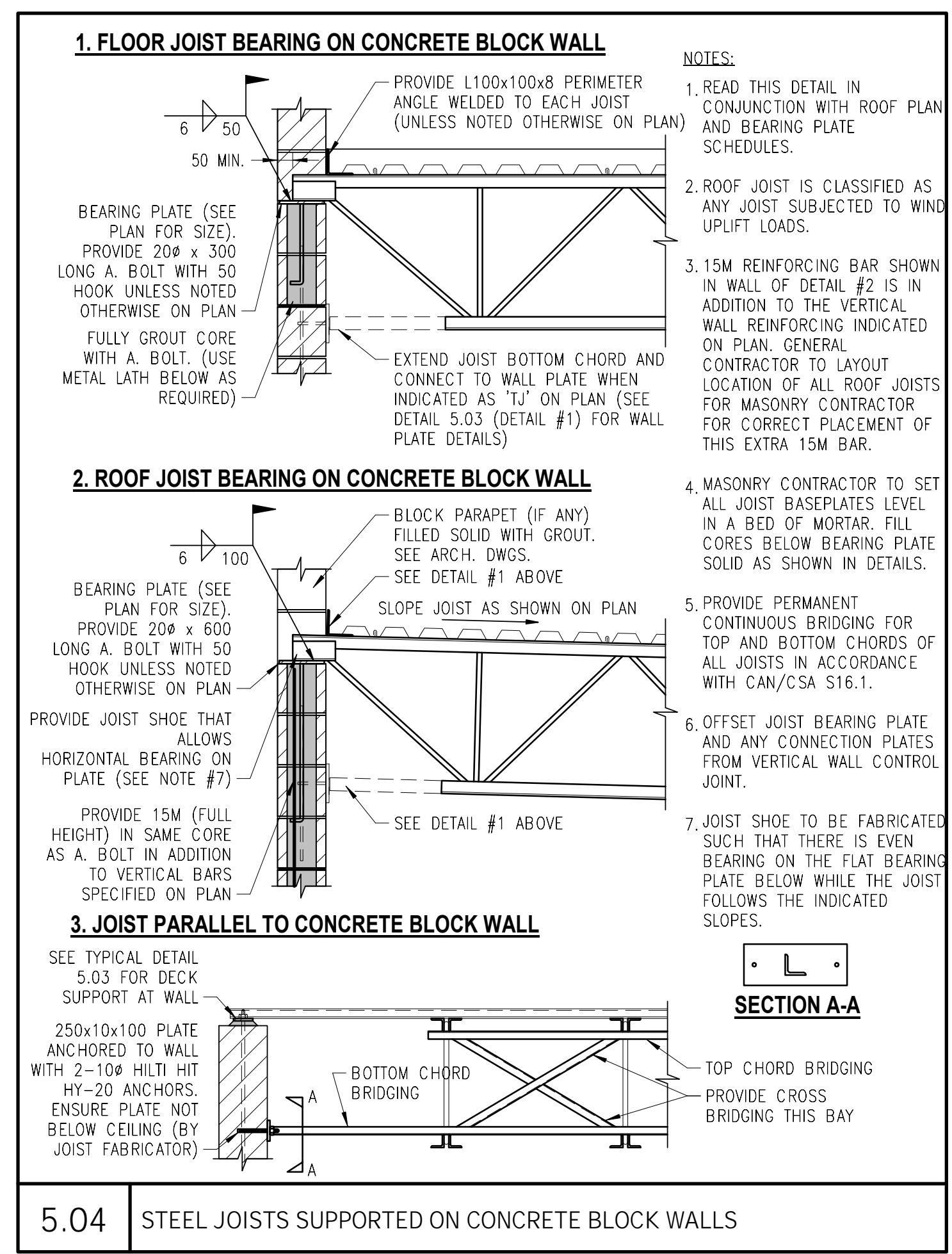
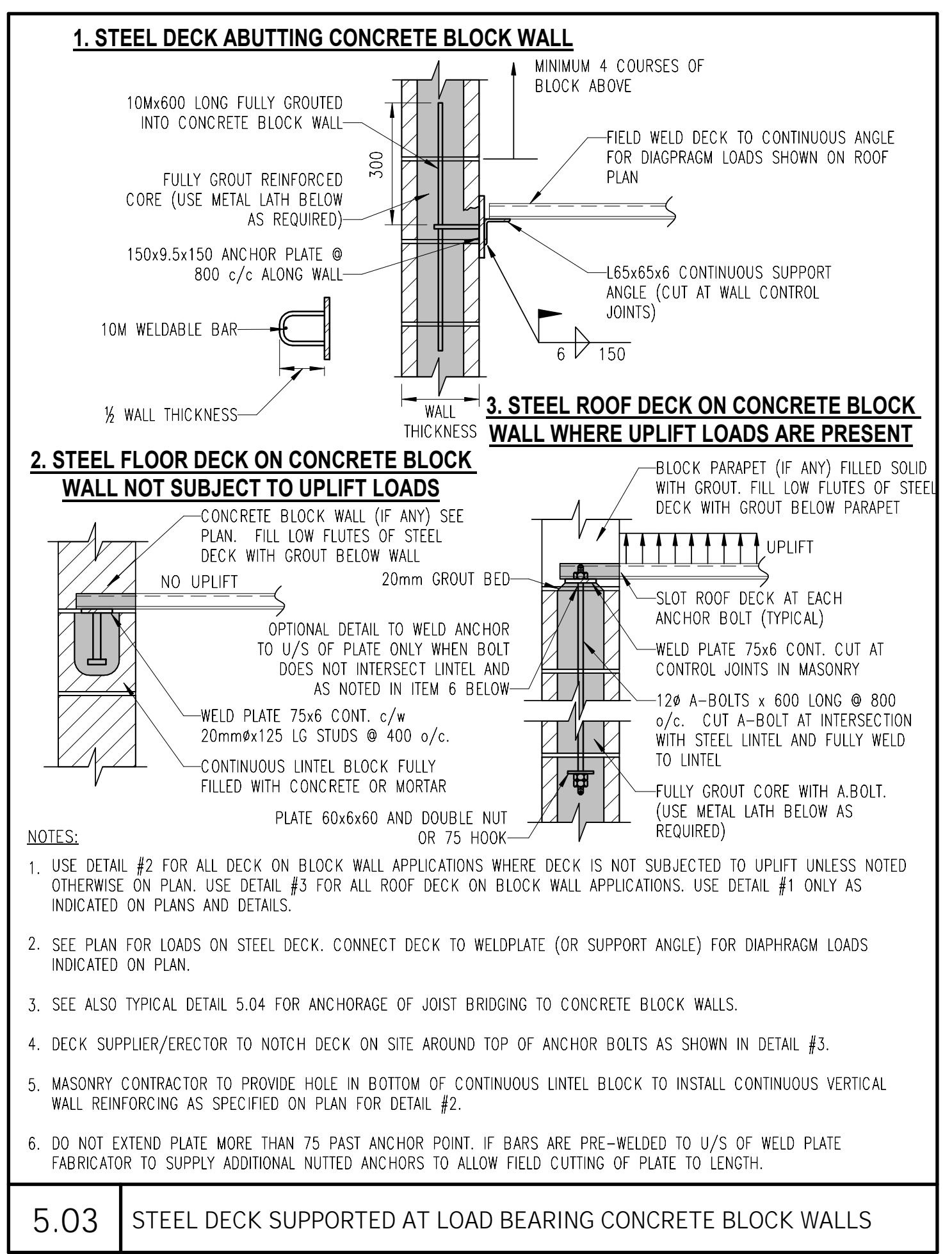
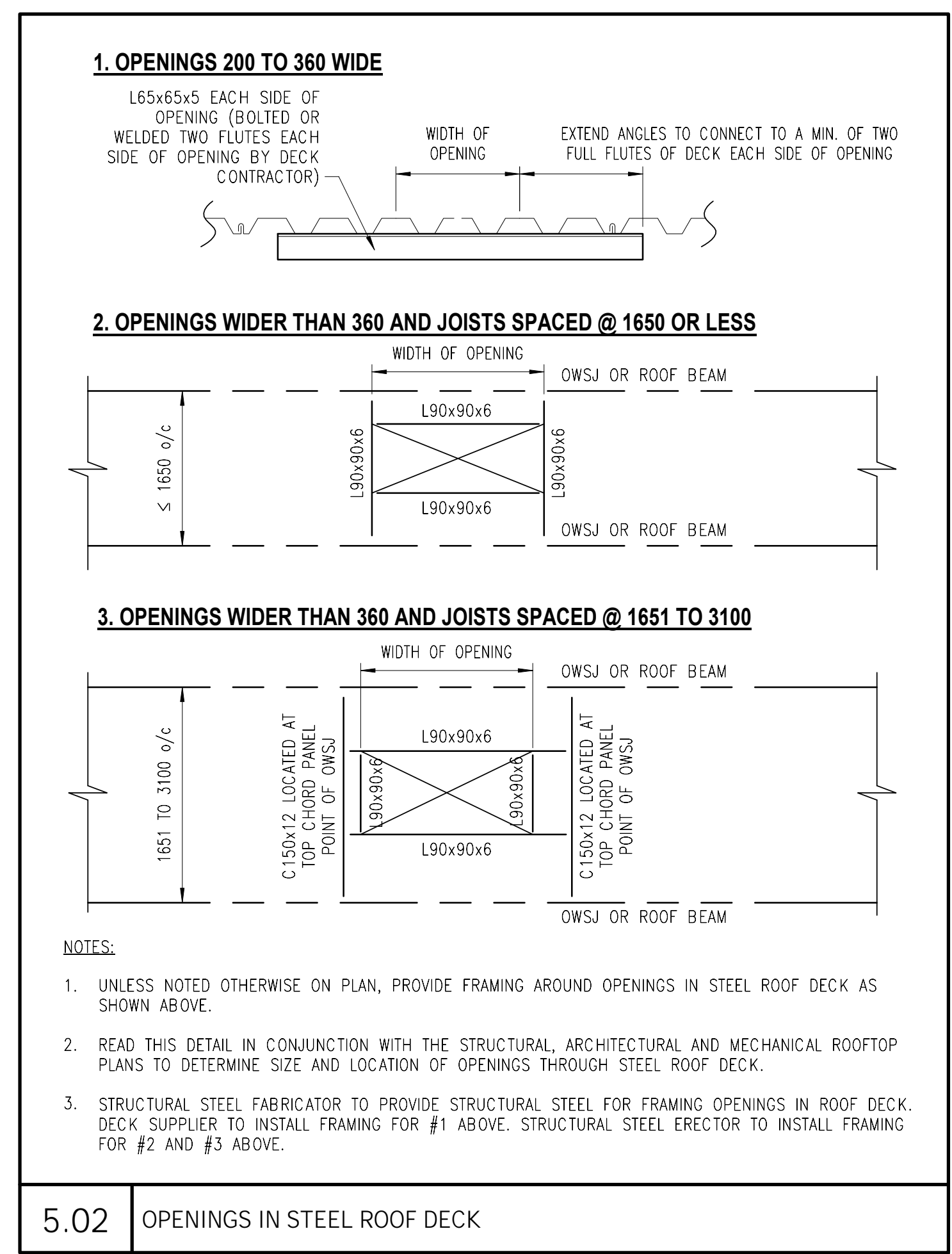
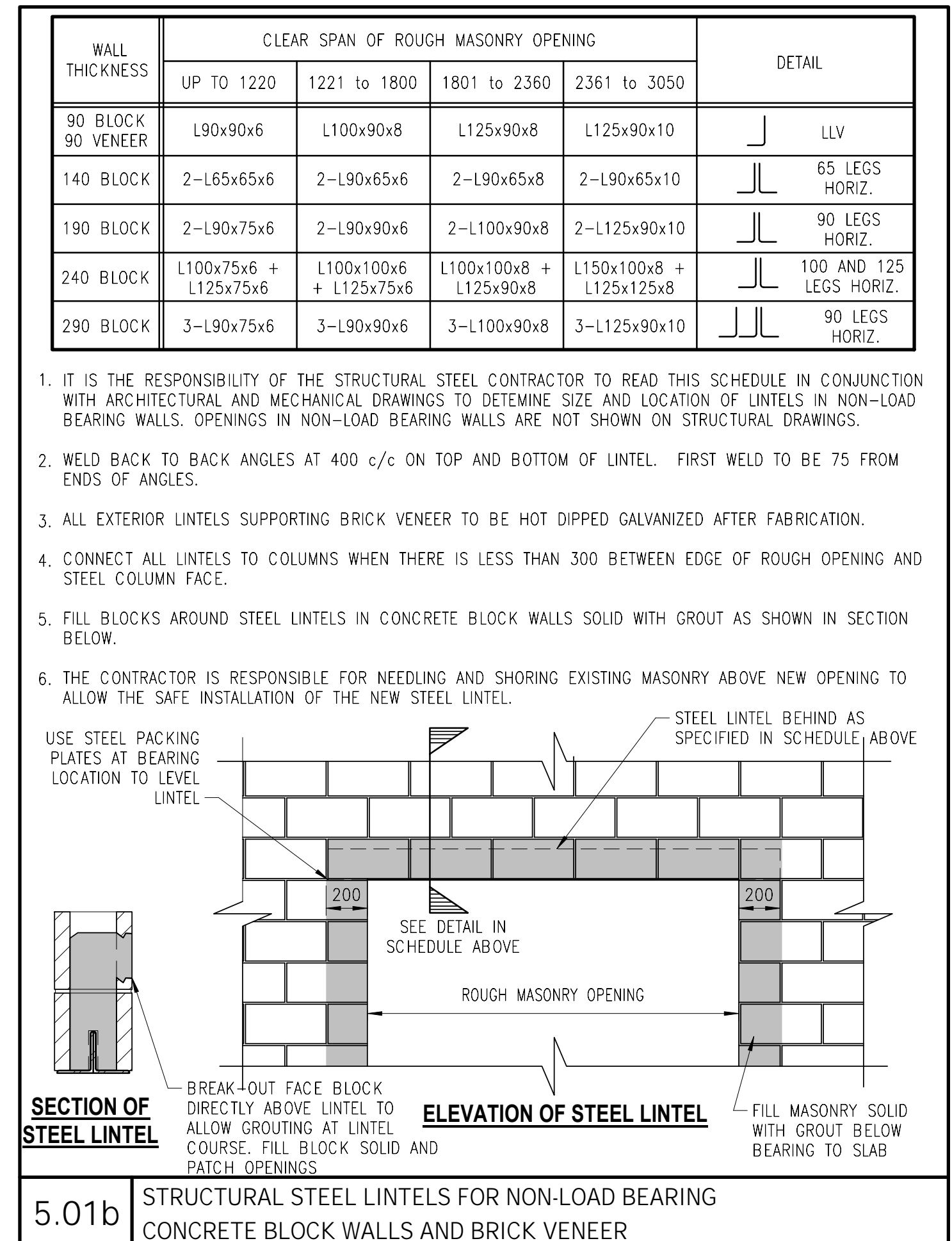
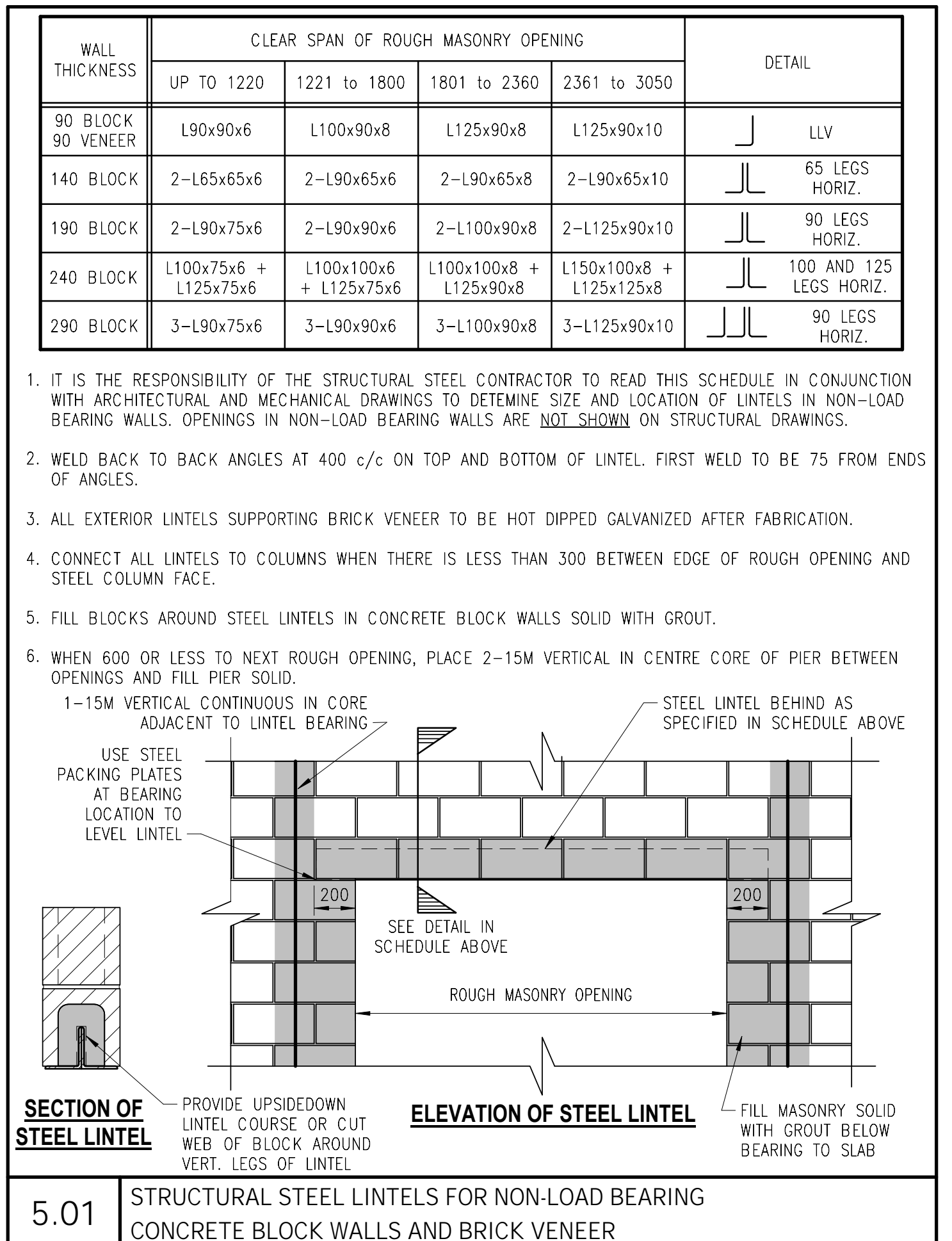
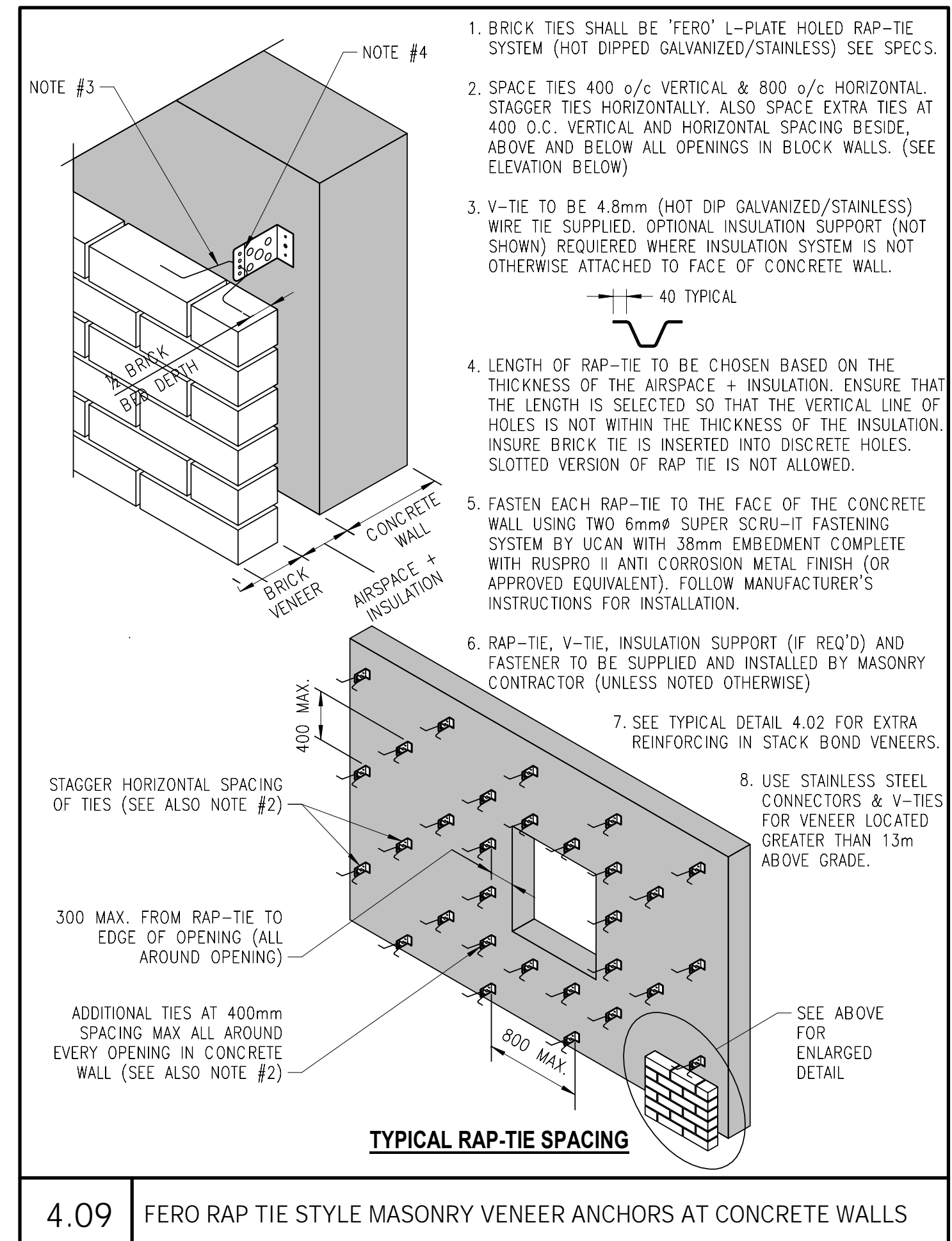
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architects

1480 Richmond St. Suite 305
London, ON N6G 0H4
info@garchitects.ca | (519) 473-6641
www.garchitects.ca

DEI Consulting Engineers
MECHANICAL, ELECTRICAL, PLUMBING

55 Northland Road
Waterloo, ON N2V 1Y8
(519) 725-3555
deiasociates.ca

V&S
STRUCTURAL ENGINEERS

1108 Dundas St. Suite 104
London, ON N6W 3A7
(519) 433-4661
vands.com

RON KOUROS
ARCHITECTURE

388 Oxford Street East
London, ON N6A 1V7
(519) 961-3322
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520 Bingham Centre Drive
Kitchener, ON N2B 3J9
(519) 743-6500
mte85.com

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(519) 578-8660
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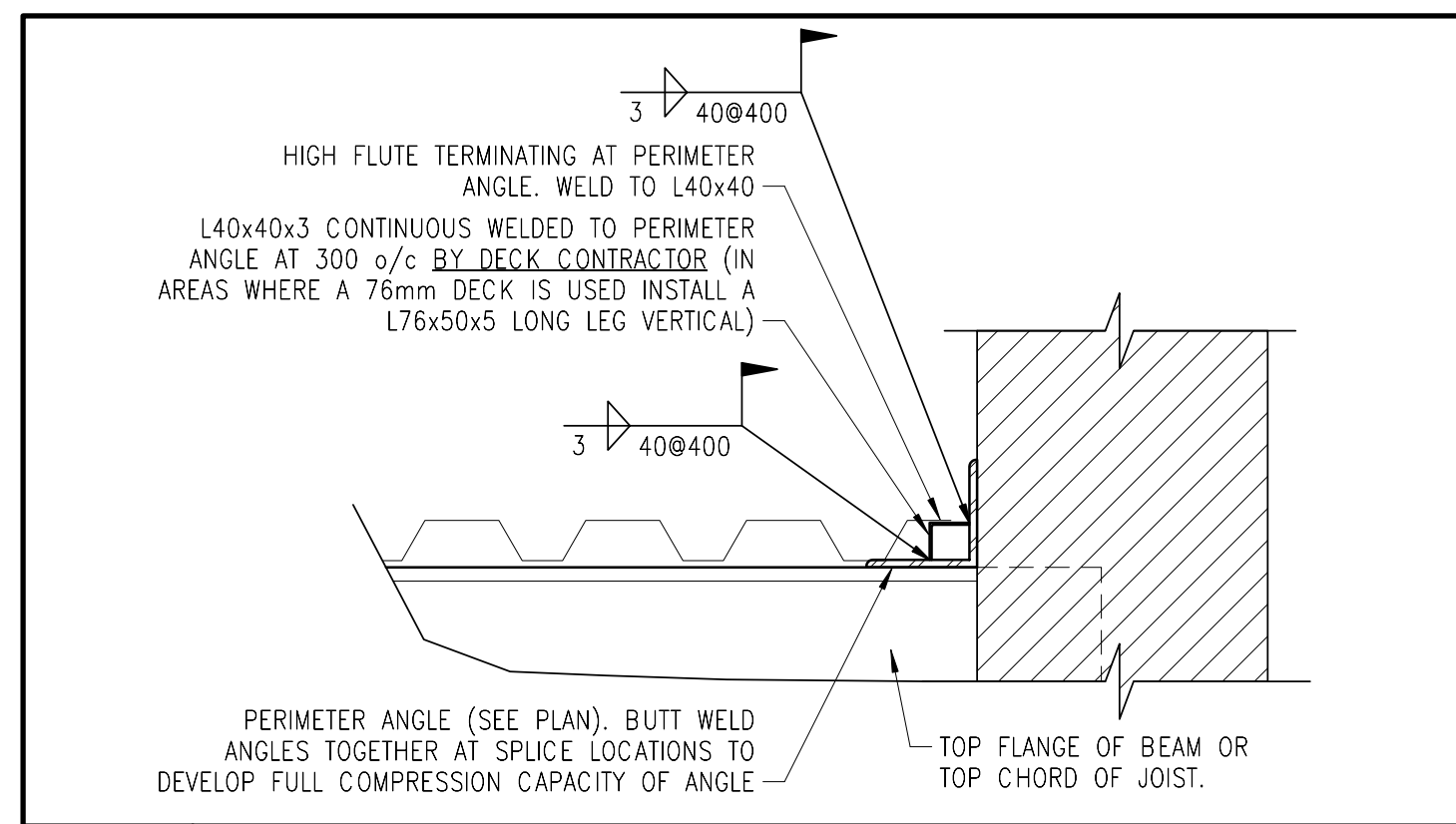
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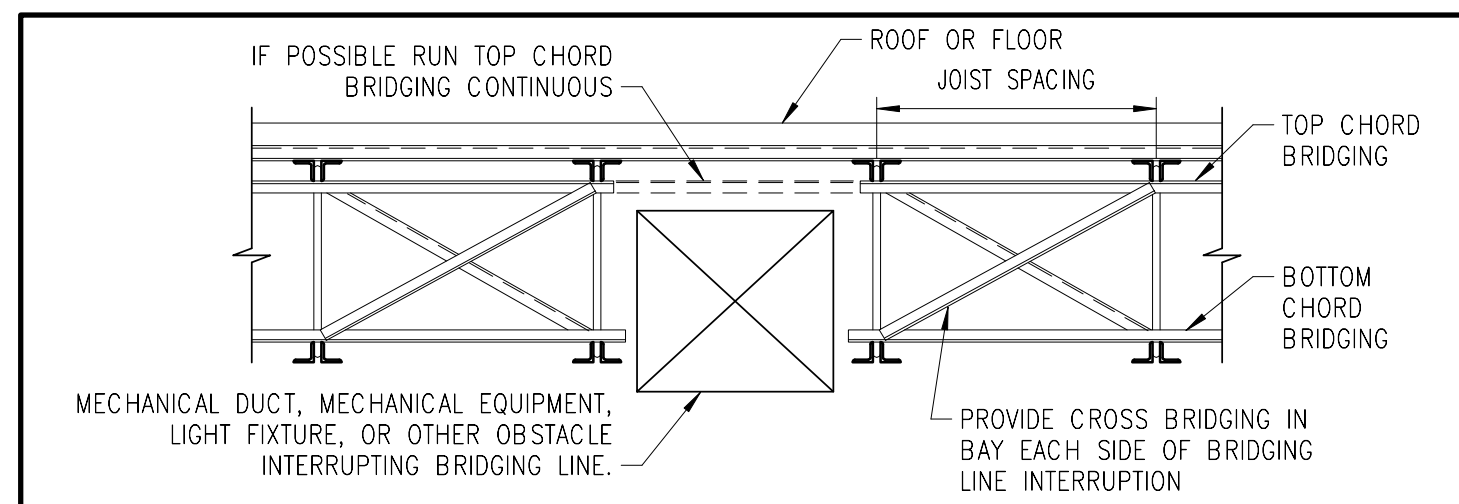
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5.07 TYPICAL DECK CLOSURE DETAIL WHERE HIGH FLUTE DOES NOT CLOSE WITH PERIMETER ANGLE

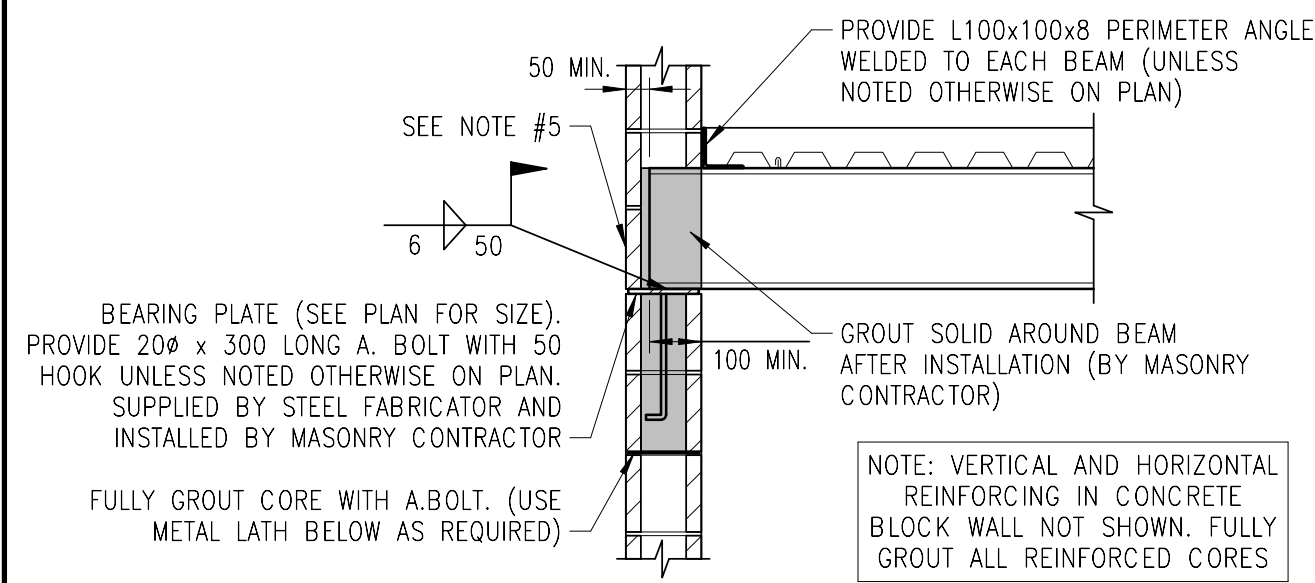


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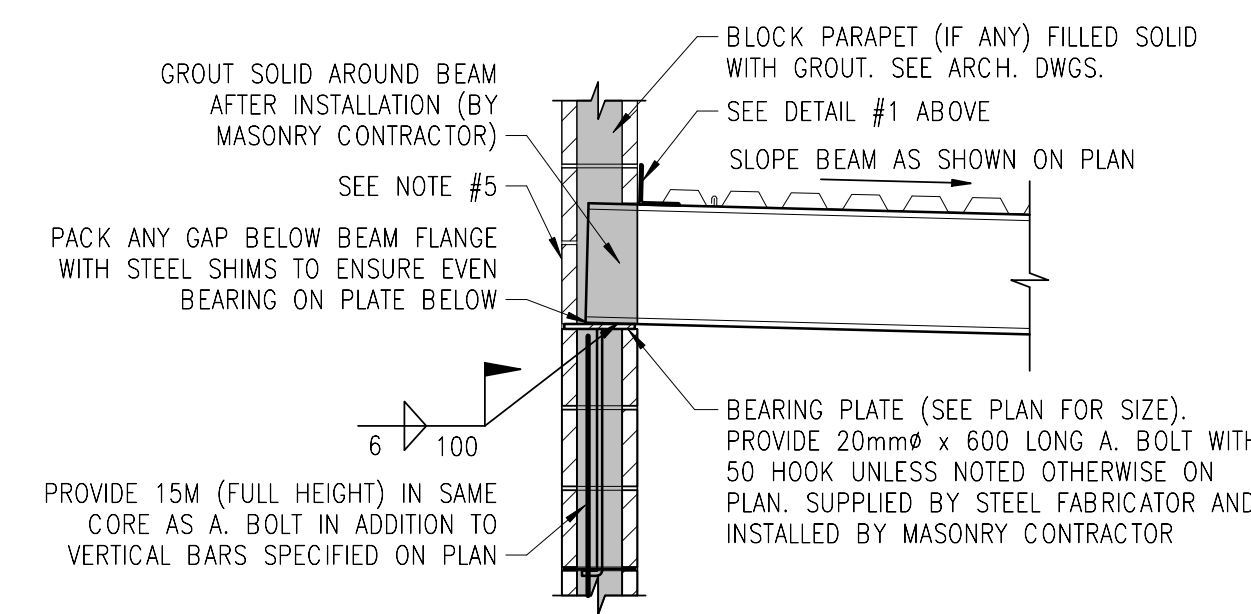
1. READ THIS DETAIL IN CONJUNCTION WITH THE FLOOR/ROOF FRAMING PLANS.
2. STEEL JOIST CONTRACTOR TO REVIEW MECHANICAL AND ELECTRICAL DRAWINGS TO DETERMINE LOCATIONS WHERE BOTTOM CHORD HORIZONTAL BRIDGING WILL BE INTERRUPTED BY LIGHTS, DUCTS, OR OTHER EQUIPMENT.
3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DISTRIBUTION OF JOIST SHOP DRAWINGS TO MECHANICAL AND ELECTRICAL TRADES FOR CONFIRMATION ON LOCATIONS WHERE LIGHTS, DUCTS, OR OTHER EQUIPMENT INTERRUPT BRIDGING LINES.

5.13 DUCT OR OTHER MECH. OR ELECT. CONFLICT WITH JOIST BRIDGING

1. FLOOR BEAM BEARING ON CONCRETE BLOCK WALL

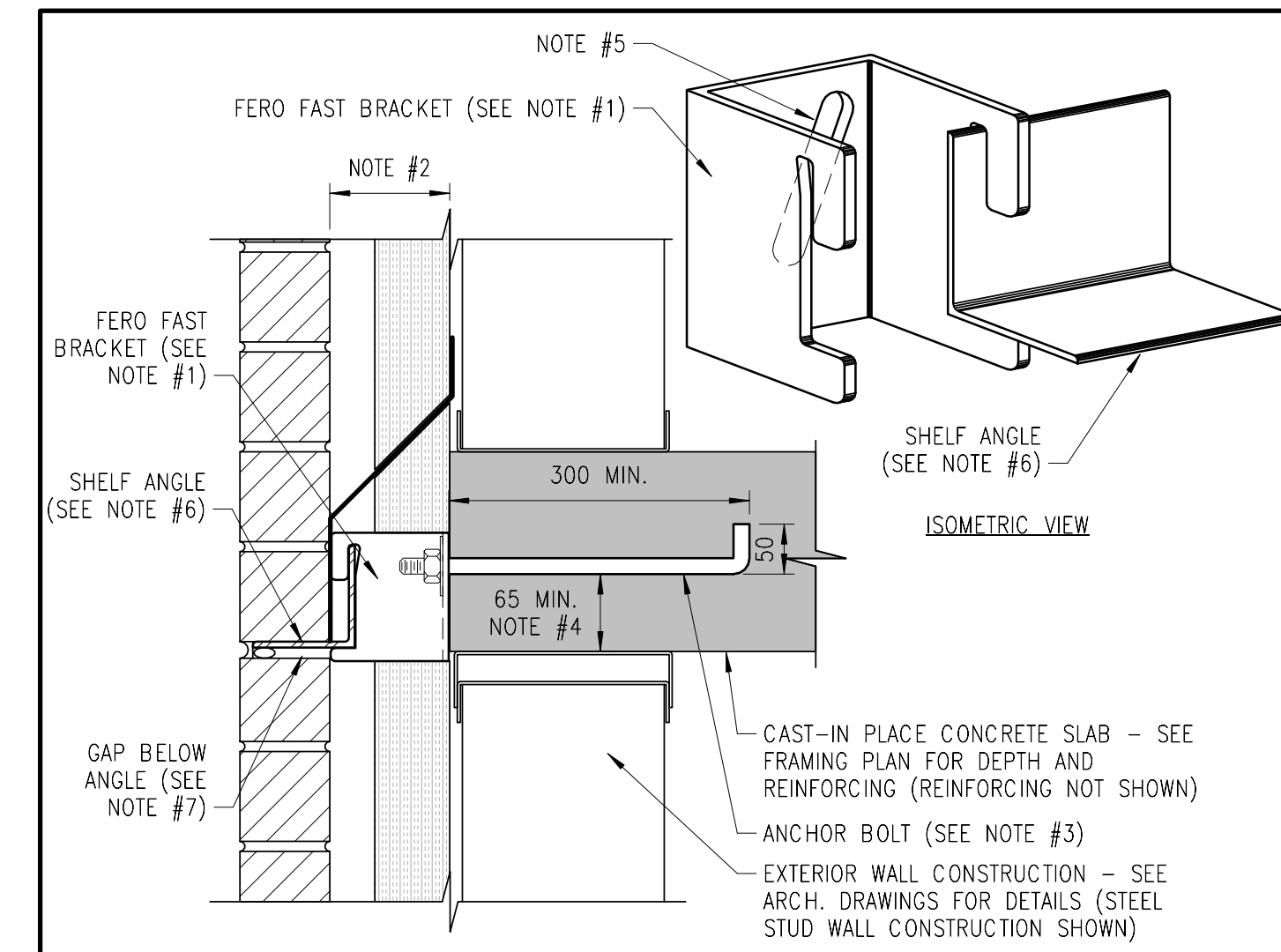


2. ROOF BEAM BEARING ON CONCRETE BLOCK WALL



1. READ THIS DETAIL IN CONJUNCTION WITH FLOOR AND ROOF FRAMING PLANS AND ANY BEARING PLATE SCHEDULES.
2. ROOF BEAM IS CLASSIFIED AS ANY BEAM SUBJECTED TO WIND UPLIFT LOADS.
3. 15M REINFORCING BAR SHOWN IN WALL OF DETAIL #2 IS IN ADDITION TO THE VERTICAL WALL REINFORCING INDICATED ON PLAN. GENERAL CONTRACTOR TO LAYOUT LOCATION OF ALL BEARING PLATES FOR MASONRY CONTRACTOR FOR CORRECT PLACEMENT OF THIS EXTRA 15M BAR.
4. MASONRY CONTRACTOR TO SET ALL BEAM BASEPLATES LEVEL IN A BED OF MORTAR. FILL CORES BELOW BEARING PLATE SOLID AS SHOWN IN DETAILS.
5. SEE ARCHITECTURAL DETAILS TO DETERMINE IF FACE OF WALL IS EXPOSED. IF EXPOSED, USE FACESHHELLS AS REQUIRED AT BEAM POCKET TO MAINTAIN COURSING AND FULL BLOCK PLACEMENT.

5.11 STEEL BEAMS SUPPORTED ON CONCRETE BLOCK WALLS



1. FOR SUPPORT OF CONTINUOUS SHELF ANGLE, PROVIDE A 'FAST' BRACKET (MANUFACTURED BY FERRO) CONNECTED AT SLAB EDGE AND SPACED AT 900mm c/c MAXIMUM. ENSURE THERE IS A MINIMUM OF 2 'FAST' BRACKETS PER STRETCH OF WALL.
2. CHOOSE SIZE OF 'FAST' BRACKET BASED ON THE SIZE OF THE CAVITY WALL (INSULATION + AIR SPACE).
3. CONNECT THE FAST BRACKET TO THE FACE OF THE CONCRETE SLAB USING A 16mmØ ANCHOR BOLT WITH A MINIMUM OF 300mm EMBEDMENT AND A 50mm HOOK. THE BOLT IS TO BE CAST IN THE SLAB. THE FORM AT THE OUTSIDE FACE OF THE SLAB IS TO BE DRILLED TO ACCOMMODATE PLACEMENT OF THE ANCHOR BOLT. USE AN APPROPRIATELY SIZED WASHER AND NUT TO CONNECT THE BRACKET TO THE SLAB.
4. DETERMINE THE LOCATION OF THE ANCHOR BOLT WITHIN THE SLAB BASED ON BRICK COURSING DIMENSIONS (REFER TO ARCH. DRAWINGS). THE BOLT IS TO BE PLACED NOT CLOSER THAN 65mm FROM THE BOTTOM OF THE SLAB.
5. PLACE 'FAST' BRACKET SUCH THAT THE DIRECTION OF THE SLOT ALTERNATES DIRECTIONS TO PREVENT THE SHELF ANGLE SYSTEM FROM MOVING AFTER INSTALLATION (REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS).
6. PLACE A L100x100x6 HOT DIPPED GALVANIZED SHELF ANGLE CONTINUOUS ALONG EACH SLAB EDGE.
7. PROVIDE A 15mm GAP BELOW EACH SHELF ANGLE AND FILL WITH APPROVED COMPRESSIBLE MATERIAL. REFER TO ARCH. DETAILS FOR FLASHING DETAILS AND SEALING OF GAP AFTER VENEER INSTALLATION.

5.12 SHELF ANGLE FOR SUPPORT OF EXTERIOR VENEER

architects
1400 Richmond St. Suite 305
London, ON N6G 0J4
hello@garchitects.ca | (519) 473-6641
www.garchitects.ca

55 Northland Road
Waterloo, ON N2V 1Y8
(519) 725-3555
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(519) 967-3322
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Kitchener, ON N2B 3J9
(519) 743-6500
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