

stepher son A SALASO'BRIEN COMPANY

2550 Victoria Park Ave. Suite 602 Toronto ON M2J 5A9 | Tel: (416) 635 9970 www.stephenson-eng.com | www.salasobrien.com

DESIGN CRITERIA NOTES: 1. GENERAL 1.1. THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 ONTARIO BUILDING CODE (OBC). ALL CODES, MANUALS, STANDARDS, AND SPECIFICATIONS REFERRED TO SHALL BE THE LATEST EDITIONS INCLUDING ALL REVISIONS AND ADDENDA AS REFERENCED IN THE OBC. 1.2 BUILDING IMPORTANCE CATEGORY (TABLE 4.1.2.1B OF OBC) IS: LOW / NORMAL / HIGH / POST DISASTER 1.3. THE PARKING GARAGE HAS BEEN DESIGNED IN ACCORDANCE TO THE STRUCTURAL REQUIREMENTS OF CSA-S413 PARKING STRUCTURES. SEE ARCHITECTURAL DRAWINGS FOR WATERPROOFING, SEALERS, ETC... DETAILED IN ACCORDANCE WITH CSA-S413. SEE ALSO MECHANICAL DRAWINGS FOR COMPLIANCE WITH THE MECHANICAL REQUIREMENTS OF CSA-S413. 1.4. THE AREAS OF THE STRUCTURE ACCESSIBLE TO VEHICULAR TRAFFIC HAVE BEEN DESIGNED FOR CLAUSES 4.1.5.5, 4.1.5.9, APPENDIX A OF OBC AND WHERE APPLICABLE GARAGE ROOF SLABS HAVE BEEN DESIGNED FOR THE REQUIREMENTS OF THE CITY OF TORONTO GUIDELINES FOR GARBAGE TRUCK AND FIRE TRUCK WHEEL LOADING. 1.5. MISCELLANEOUS METAL, PRECAST AND STAIR FABRICATORS SHALL: 1.5.1. PROVIDE SHOP DRAWINGS TO THE ARCHITECT PRIOR TO FABRICATION; STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER. 1.5.2. DESIGN ALL GUARDS TO MEET LATERAL LOADS DESCRIBED IN OBC CLAUSE 4.1.5.14. 1.5.3. DESIGN ALL HANDRAILS TO MEET LOADS DESCRIBED IN OBC CLAUSE 3.4.6.5(12). 1.5.4. DESIGN ALL STAIRS TO SUPPORT A MINIMUM LIVE LOAD OF 4.8kPa. 1.6. ARCHITECTURAL FAÇADE (PRECAST AND INSULATED METAL PANEL, ETC.) FABRICATORS SHALL: 1.6.1. PROVIDE SHOP DRAWINGS TO THE ARCHITECT PRIOR TO FABRICATION, STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER. 1.6.2. WHERE THE FAÇADE IS USED AS A GUARD AS MENTIONED ABOVE THE DESIGN OF ALL COMPONENTS AND CONNECTIONS SHALL MEET LATERAL LOADS DESCRIBED IN OBC CLAUSE 4.1.5.14. 1.7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR WHO IS SUPPLYING AND INSTALLING NON-STRUCTURAL COMPONENTS AND EQUIPMENT, THAT ALL NON-STRUCTURAL ELEMENTS AND EQUIPMENT (AND THEIR CONNECTIONS TO THE STRUCTURE) LISTED IN TABLE 4.1.8.18 OF THE OBC ARE DESIGNED IN ACCORDANCE WITH CLAUSE 4.1.8.18. 1.8 CONTRACTOR IS TO DESIGN AND DETAIL ALL MASONRY PARTITION WALLS, TAKING INTO ACCOUNT SLEEVES, DUCT PENETRATIONS AND DOOR OPENINGS. CONTRACTOR SHALL DESIGN. PROVIDE AND INSTALL ANY ANCILLIARY STEEL (POSTS, TOP OF WALL RESTRAINTS, ETC.) AND MASONRY REINFORCEMENT (REBAR), AS REQUIRED TO SATISFY THE DESIGN OF MASONRY PARTITIONS. THE MASONRY REINFORCEMENT PROVIDED SHALL NOT BE LESS THAN THAT INDICATED ON THE TYPICAL DETAILS. CONTRACTOR SHALL SUBMIT TO THE ARCHITECT MASONRY PARTITION DESIGN CALCULATIONS AND DRAWINGS, STAMPED AND SIGNED BY LICENSED PROFESSIONAL ENGINEER. 2. FIRE SAFETY 2.1 REFER TO ARCHITECTURAL DRAWINGS FOR ALL FIRE SAFETY RATING REQUIREMENTS FOR STRUCTURAL COMPONENTS. 2.1.1. ALL REINFORCED CONCRETE SLABS, BEAMS, COLUMNS, AND SHEAR WALLS SHALL BE DETAILED TO ACHIEVE THE FIRE RATINGS SHOWN IN THE ARCHITECTURAL DRAWINGS, IN CONJUNCTION WITH CONCRETE COVER TYPICAL DETAIL. 2.1.2. WHERE APPLICABLE, REFER TO STRUCTURAL STEEL FRAMING PLANS FOR THE ASSUMED FLOOR ASSEMBLY ULC RATINGS. PROVIDE FIRE PROOFING AS REQUIRED INCLUDING ALL VERTICAL AND LATERAL RESISTING STRUCTURAL FRAMING (COLUMNS, BRACING, ETC.) 2.1.4. HOLLOW CORE SLABS SHALL BE DESIGNED TO MEET THE FIRE RATING AS NOTED ON THE ARCHITECTURAL DRAWINGS. 3. LATERAL LOADS ON STRUCTURE B.1 WIND LOADING 3.1.1 WIND PARAMETERS THE WIND LOADING PARAMETERS INDICATED BELOW HAVE BEEN CALCULATED IN ACCORDANCE TO CLAUSE 4.1.7 OF NBC 2015 AND COMMENTARY I - "WIND LOAD AND EFFECTS" OF USER'S GUIDE -NBC 2015 STRUCTURAL COMMENTARIES (PART 4 OF DIVISION B). Ce and Cq HAVE BEEN COMPUTED ACCORDING TO THE ISTATIC PROCEDURE FOR JOPEN TERRAIN], [ROUGH TERRAIN] [INTERMEDIATE VALUE BETWEEN OPEN AND ROUGH TERRAINS]] [DYNAMIC PROCEDURE FOR EXPOSURE [A – OPEN] [B- ROUGH]]. IMPORTANCE FACTOR FOR WIND LOADING, IW = _____ q(1/50) = ____ kPa Cp VALUES PER FIGURE CLAUSE 4.1.7.5 OR 4.1.7.6 OF NBC 2015 AND NBC 2015 USER'S GUIDE CPi, VALUES FROM CLAUSE 4.1.7.7 IN NBC 2015 AND NBC 2015 USER'S GUIDE. 3.1.2 BASE SHEARS WIND BASE SHEAR = _____ kN (EAST-WEST DIRECTION) WIND BASE SHEAR = kN (NORTH-SOUTH DIRECTION) 3.1.3 IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR'S ENGINEER TO CALCULATE WIND PRESSURES ON NON-STRUCTURAL COMPONENTS (CLADDING, ROOFING, ETC.) BASED ON COMMENTARY I OF NBC 2015 USER'S GUIDE. 3.2 EARTHQUAKE LOADING 3.2.1 EARTHQUAKE PARAMETERS IMPORTANCE FACTOR FOR EARTHQUAKE LOAD IE = _____ SITE CLASS FOR SEISMIC SITE RESPONSE = _____ (REFER TO GEOTECHNICAL REPORT) THE EARTHQUAKE SEISMIC HAZARD INDEX [le Fa Sa(0.2)] = _____ Sa(0.2) = 0.____ Sa(5.0)=____ Sa(0.5) = 0._____ Sa(10.0) = _____ Sa(1.0) = 0.____ PGA=____ F(T)=Fa=_____ Sa(2.0) = 0. SFRS CONSISTS OF: AND CORRESPONDING DUCTILITY-RELATED MODIFICATION FACTORS ARE: Rd = Ro = STRUCTURAL IRREGULARITIES CONSIDERED IN THE DESIGN PER OBC CLAUSE 4.1.8.6. CONSIST OF TYPES: ____ METHOD OF LATERAL ANALYSIS: _____ [STATIC] [DYNAMIC] 3.2.2 BASE SHEARS EARTHQUAKE BASE SHEAR = _____ kN (EAST-WEST DIRECTION) EARTHQUAKE BASE SHEAR = kN (NORTH-SOUTH DIRECTION) 3.2.3 STIFF ELEMENTS NOT PART OF SFRS SHALL BE SEPARATED FROM THE STRUCTURE AS PER OBC CLAUSE 4.1.8.3 (6a). EXAMPLES INCLUDE, BUT NOT LIMITED TO MASONRY PARTITIONS, BRICK VENEER, PRECAST CLADDING ETC. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO PROVIDE SHOP DRAWINGS, STAMPED, SIGNED AND DATED BY A LICENSED PROFESSIONAL ENGINEER DEMONSTRATING COMPLIANCE. PROVIDE MINIMUM 15mm SEPARATION UNLESS NOTED OTHERWISE. GIVEN BY THE EQUATION BELOW. P = K x (Wt.h+q)Where: K_ = 0. [ACTIVE/PASSIVE/AT REST]

3.3 <u>LATERAL FORCES ON FOUNDATION / RETAINING WALLS</u> 3.3.1 WALLS RETAINING EARTH ARE DESIGNED TO SAFELY WITHSTAND HORIZONTAL EARTH PRESSURE (P IN kPa) AT A DEPTH (h IN m) Wt = _____ kN/m^3 q = _____ KPa (SURFACE PRESSURE SURCHARGE) h = DEPTH (m) 3.3.2 THE WALLS HAVE BEEN DESIGNED ASSUMING FREE DRAINING BACKFILL OR THE USE OF A DRAINAGE CORE TO PREVENT THE BUILD-UP OF HYDROSTATIC PRESSURE. (SEE TYPICAL DETAILS) 4. SUPERIMPOSED DEAD AND LIVE LOADS ASSUMPTIONS. 4.2 APPLICABLE LIVE LOAD REDUCTION FACTORS HAVE BEEN USED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE [FOR THE DESIGN OF COLUMNS, WALLS AND FOUNDATION ONLY]. 4.3 THE STRUCTURE HAS BEEN DESIGNED TO RESIST THE FOLLOWING VERTICAL CLADDING DEAD LOADS: CURTAIN WALL _____kPa. PRECAST CONCRETE ___ kPa. BRICK VENEER AND BLOCK [STUD] BACK-UP METAL CLADDING _____kPa. 5.1 SNOW LOADING 5.1.1 THE SPECIFIED SNOW LOADING HAS BEEN CALCULATED BASED ON THE FOLLOWING PARAMETERS, MODIFIED TAKING INTO ACCOUNT FACTORS SUCH AS ROOF SIZE, WIND EXPOSURE, SLOPE AND SNOW DRIFTS: IMPORTANCE FACTOR FOR SNOW LOAD Is = ____ GROUND SNOW LOAD, Ss = _____ kPa ASSOCIATED RAIN LOAD, Sr = ____ kPa 5.1.2 SEE ROOF PLANS AND ACCUMULATED SNOW LOADING PLANS FOR LOCALIZED INCREASES AND DRIFTS CALCULATED IN ACCORDANCE WITH PART 4.1.6 OF NBCC 2015 AND NBC 2015 STRUCTURAL COMMENTARIES. 5.2 RAIN LOADING 5.2.2 THE BUILDING ROOF STRUCTURE HAS BEEN DESIGNED ON THE ASSUMPTION THAT FLOW CONTROL ROOF DRAINS SATISFY ALL REQUIREMENTS OF THE 2015 NATIONAL PLUMBING CODE OF CANADA. 5.2.2 THE TOTAL RAIN LOAD ASSOCIATED WITH THE ONE DAY (24 HR) RAINFALL, IN ACCORDANCE WITH CLAUSE 4.1.6.4.(1) OF NBC 2015 AND COMMENTARY H IN USER'S GUIDE - NBC 2015 STRUCTURAL COMMENTARIES (PART 4 OF DIVISION B) IS: ONE DAY RAIN (1/50) = _____ mm 5.3.1 SEE ROOF PLANS, NOTES OR ROOF UPLIFT LOADING SCHEDULE FOR DESIGN LOAD VALUES FOR WIND UPLIFT. THE VALUES PRESENTED ON THESE DRAWINGS ARE UNFACTORED LOADS. 5.3.2 UPLIFT PRESSURES HAVE BEEN CALCULATED IN ACCORDANCE WITH FIGURE 4.1.7.6. OF NBCC 2015.

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6. SERVICEABILITY

WOOD MEMBERS

- | 6.2 PERIMETER OR SPANDREL ELEMENTS S
- DEFLECTION OF 1/480, OR [] mm, WH 6.3 REINFORCED CONCRETE FLOOR OR ROO INSTALLATION OF NON-STRUCTURAL EI
- LOADS DOES NOT EXCEED [1/500][1/450][1/400] OF THE STOREY HEIGHT.
- PROVISIONS FOR FUTURE EXTENSION / EXPANSION

- 4.1 SEE FLOOR/ROOF PLANS, NOTES, AND/OR LOADING SCHEDULES FOR DESIGN SUPERIMPOSED DEAD AND LIVE LOADING

5. OTHER LOADS ON ROOFS

- 5.3 WIND UPLIFT 5.3.3 FOR WIND PARAMETERS REFER TO SECTION 3.1 - WIND LOADING.

EARTH PRESSURE DESIGN PARAMETERS P = K [ɣ (h - hw) + ɣ' hw + q] + ɣw hw Where: P = Lateral earth pressure in kPa acting at depth h h = the depth below the ground surface (m) K_ = 0.___ [ACTIVE/PASSIVE/AT REST] hw = the depth below the ground water level (m) γ = the bulk unit weight of soil = ____ kN/m³ γw = the bulk unit weight of water = ____ kN/m³ χ' = the submerge unit weight of the exterior soil = (χ - χ w) q = ____ kPa (SURFACE PRESSURE SURCHARGE) OR P = K (ɣ h + q) Where: P = Lateral earth pressure in kPa acting at depth h h = the depth below the ground surface (m) K_ = 0.___ [ACTIVE/PASSIVE/AT REST] γ = the bulk unit weight of soil = ____ kN/m³ q = ____ kPa (SURFACE PRESSURE SURCHARGE)

MEMBER TYPE REINFORCED CONCRETE MEMBERS	DEFLECTION COMPONENT	DEFLECTION LIMIT
FLAT ROOFS NOT SUPPORTING OR ATTACHED TO NON-STRUCTURAL ELEMENTS LIKELY TO BE DAMAGED BY LARGE DEFLECTIONS	IMMEDIATE DEFLECTION DUE TO SPECIFIED LIVE LOAD OR SNOW LOAD	L/180
FLOORS NOT SUPPORTING OR ATTACHED TO NON-STRUCTURAL ELEMENTS LIKELY TO BE DAMAGED BY LARGE DEFLECTIONS	IMMEDIATE DEFLECTION DUE TO SPECIFIED LIVE LOAD	L/360
ROOF OR FLOOR CONSTRUCTION SUPPORTING OR ATTACHED TO NON- STRUCTURAL ELEMENTS LIKELY TO BE DAMAGED BY LARGE DEFLECTIONS	PORTION OF TOTAL DEFLECTION OCCURRING AFTER ATTACHMENT OF NON-STRUCTURAL ELEMENTS	L/480
ROOF OR FLOOR CONSTRUCTION NOT SUPPORTING OR ATTACHED TO NON- STRUCTURAL ELEMENTS LIKELY TO BE DAMAGED BY LARGE DEFLECTIONS	PORTION OF TOTAL DEFLECTION OCCURRING AFTER ATTACHMENT OF NON-STRUCTURAL ELEMENTS	L/240
STRUCTURAL STEEL MEMBERS FLOOR MEMBERS	LIVE	L/360
FLOOR MEMBERS	TOTAL = DEAD + LIVE (MINUS CAMBER)	L/300
ROOF MEMBERS SUPPORTING CONSTRUCTION AND FINISHES	LIVE OR SNOW LOAD	L/360
SUSCEPTIBLE TO CRACKING ROOF MEMBERS SUPPORTING CONSTRUCTION AND FINISHES NOT SUSCEPTIBLE TO CRACKING	LIVE OR SNOW LOAD	L/300
ROOF MEMBERS	TOTAL = DEAD + LIVE (MINUS CAMBER)	L/240
WOOD MEMBERS		
FLOOR AND ROOF MEMBERS	TOTAL LOAD	L/240
FLOOR MEMBERS	LIVE LOAD	L/360
ROOF MEMBERS	LIVE OR SNOW LOAD	L/360

[THREE] MONTHS AFTER THE REINFORCED CONCRETE MEMBERS HAVE BEEN POURED AND THE RESHORES REMOVED. 6.4 THE BUILDING STRUCTURE HAS BEEN DESIGNED SUCH THAT THE TOTAL DRIFT PER STOREY UNDER SERVICE WIND AND GRAVITY 6.5 THE BUILDING STRUCTURE HAS BEEN DESIGNED SUCH THAT THE CALCULATED INTERSTOREY DEFLECTIONS DUE TO SEISMIC SEISMIC LOADS PER OBC 4.1.8.13 DO NOT EXCEED 0.025 [0.02] [0.01] OF THE STOREY HEIGHT.

7.1 THE STRUCTURE HAS BEEN DESIGNED FOR A FUTURE EXTENSION / EXPANSION JAS SHOWN ON DRAWING ____

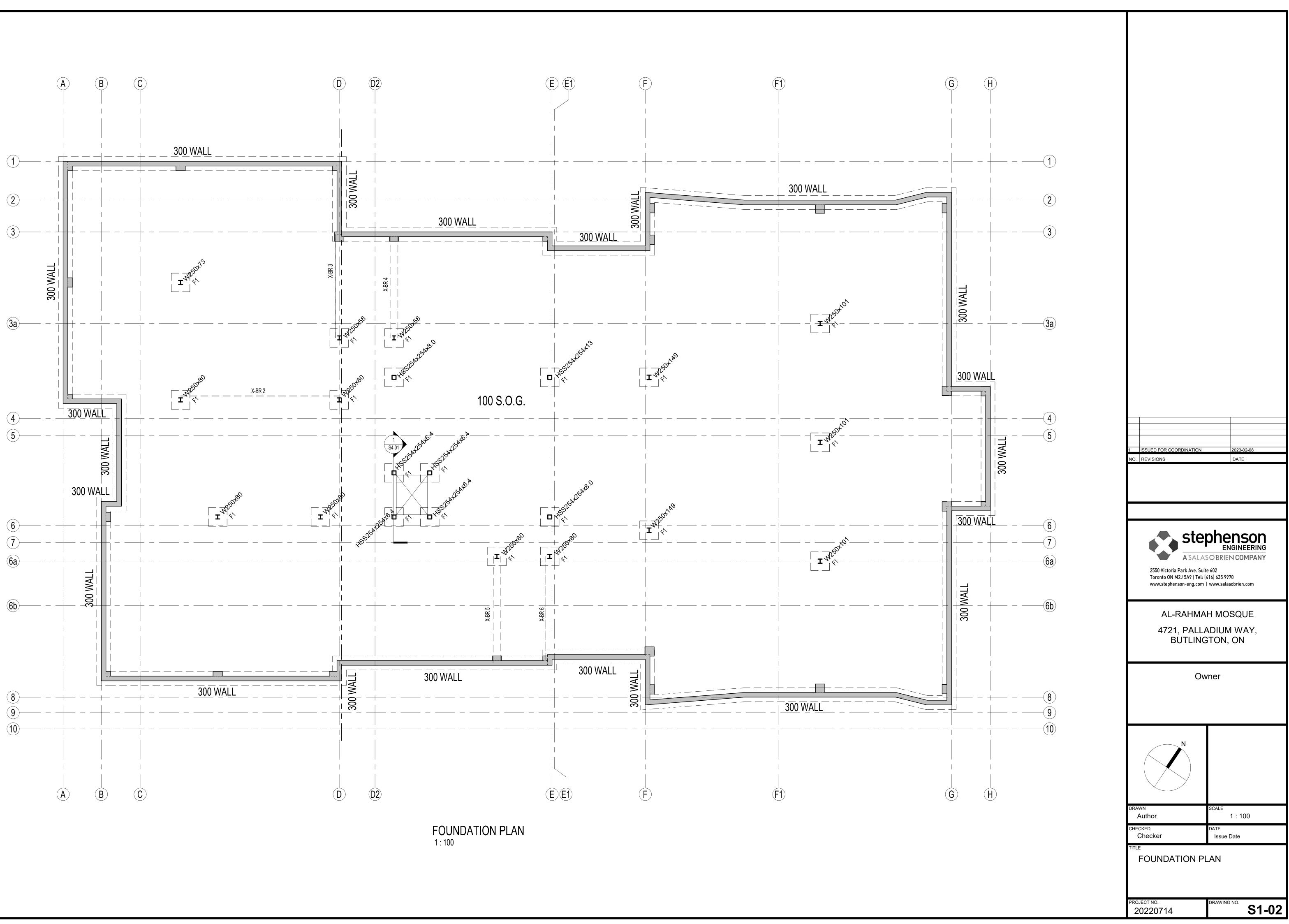
DRAWING LIST		
Sheet Number	Sheet Name	
S0	COVER SHEET	
S1-01	DESIGN NOTES	
S1-02	FOUNDATION PLAN	
S1-03	LEVEL 1 FRAMING PLAN	
S1-04	LEVEL 2 FRAMIN PLAN	
S1-05	ROOF FRAMING PLAN	
S1-06	CANOPY FRAMING PLAN	
S4-01	VERTICAL BRACING ELEVATIONS	
S7-01	ROOF SECTIONS	
S9-01	GENERAL NOTES AND TYPICAL DETAILS	
S9-02	GENERAL NOTES AND TYPICAL DETAILS	
S9-03	GENERAL NOTES AND TYPICAL DETAILS	
S9-04	GENERAL NOTES AND TYPICAL DETAILS	
S9-05	GENERAL NOTES AND TYPICAL DETAILS	
S9-06	GENERAL NOTES AND TYPICAL DETAILS	

CONCRETE MIX SCHEDULE

EXPOSURE	ELEMENT	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (MP ¹)	EXPOSURE CLASSIFICATION	NOTES
GENERAL NON-	FOOTINGS	25	N	
EXPOSED CONCRETE	CAISSONS AND CAISSON CAPS	25	N	
i.e., NOT EXPOSED TO			N	
CHLORIDES NOR	SHEAR WALLS		N	
REEZE AND THAW)	OTHER WALLS (NOT IDENTIFIED AS SHEAR WALLS)		N	
	SUSPENDED SLABS AND BEAMS		N	
	SLAB ON GRADE 2	25	N	
	SLAB ON METAL DECK	25	N	
	LEAN MIX	5	N	
	FLOATING SLABS	25	N	
	HOUSEKEEPING PADS	25	N	
	TOPPINGS	25	N	
		0.4 MAX.	N N	
	UNSHRINKABLE FILL	0.4 MAX.	N	
XTERIOR EXPOSED	FOUNDATION/RETAINING WALLS	25	F-2	
ONCRETE	COLUMNS		F-2	
XCLUDING PARKING	SHEAR WALLS		F-2	
.e., EXPOSED TO	OTHER WALLS (NOT IDENTIFIED AS SHEAR WALLS)		F-2	
REEZE AND THAW	SUSPENDED SLABS AND BEAMS		F-2	
BUT NOT CHLORIDES)	SLAB ON GRADE ² , SIDEWALKS	32	C-2	
	SLAB ON METAL DECK	25	F-2	
	EXPOSED BALCONY SLABS (NON-WATER PROOFED)	30	F-1	
Г				
ARKING AREAS	FOOTINGS		[C-1/F-2/N]	
EXPOSED TO	GRADE BEAMS, PIERS		[C-1/F-2]	
HLORIDES)	FOUNDATION/RETAINING WALLS		[C-1/F-2]	1
, L	COLUMNS — — — — — — — — —	+		
	SHEAR WALLS		C-1	
	OTHER WALLS (NOT IDENTIFIED AS SHEAR WALLS)		C-1	
	SUSPENDED SLABS, RAMPS AND BEAMS	35	C-1	
	SLAB ON GRADE 2 (HEATED AREAS)	25	C-4	
	SLAB ON GRADE 2 (UNHEATED AREAS)	32	C-2	
	FROST SLABS	35	C-1	
	LOADING DOCKS	35	C-1	
GROUT	MASONRY FILL/BOND BEAMS	15 (FINE GROUT)		CONFORM TO REQUIREMENTS OF CSA A179

ADDITIONAL PARAMETERS FOR NOTES





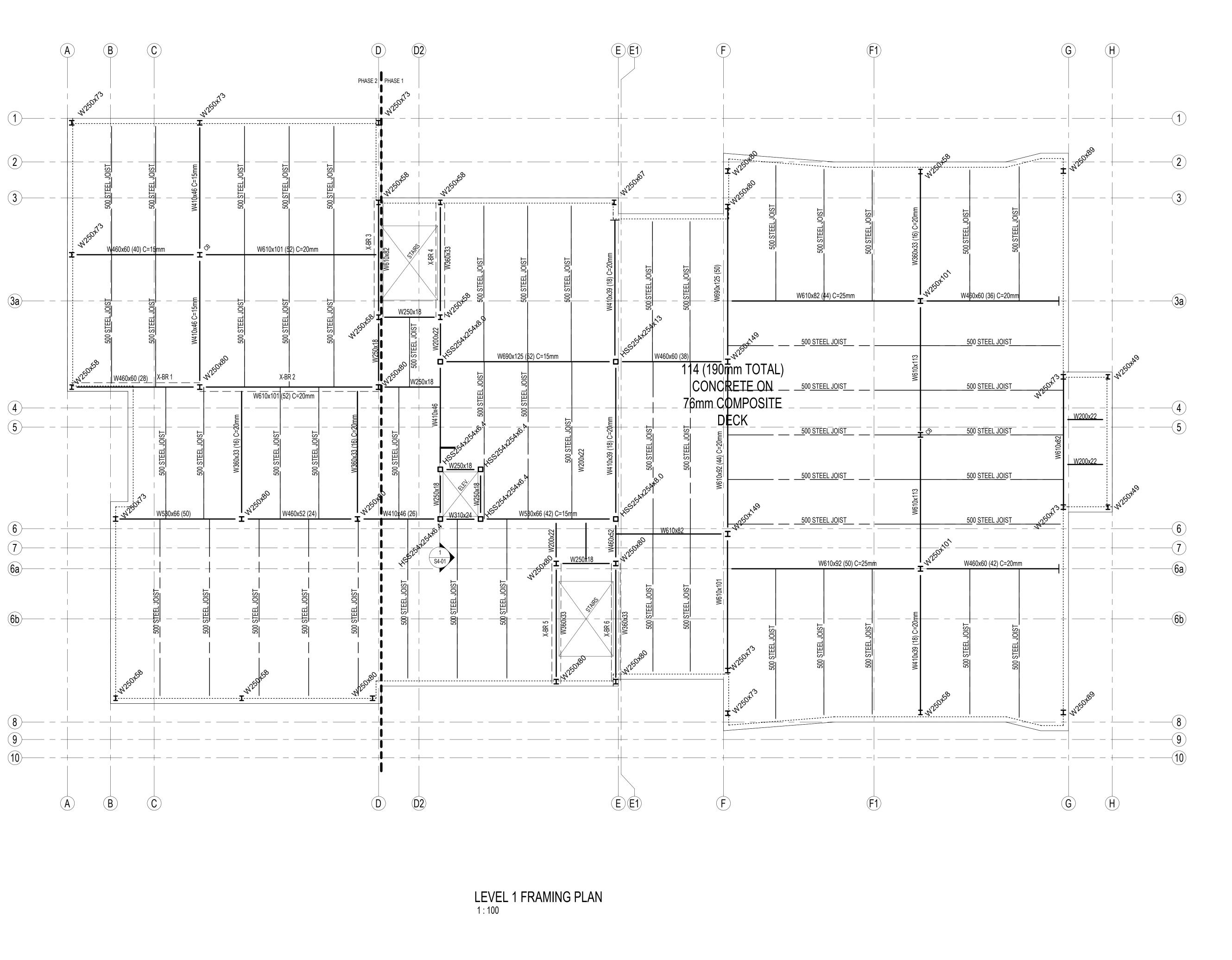
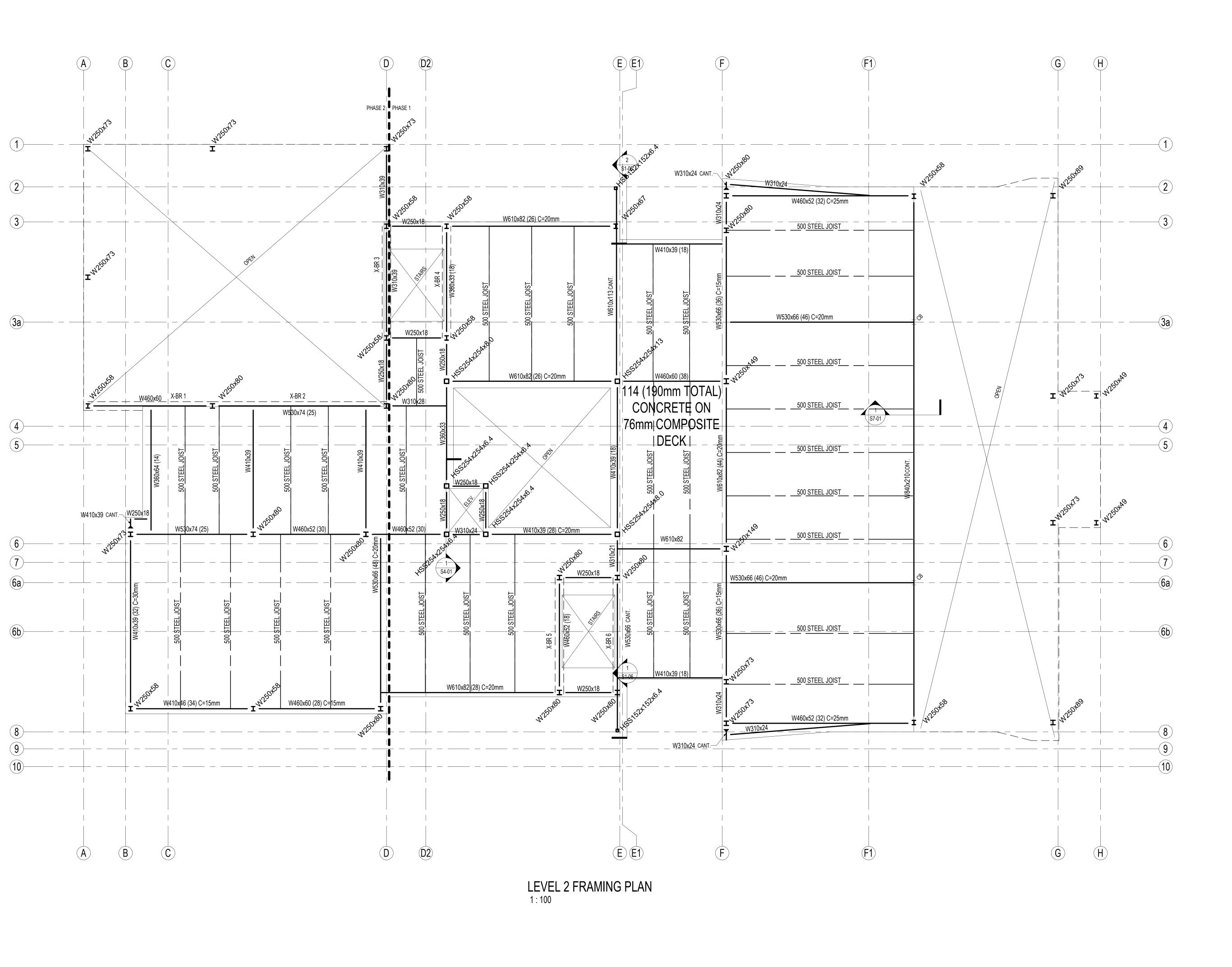
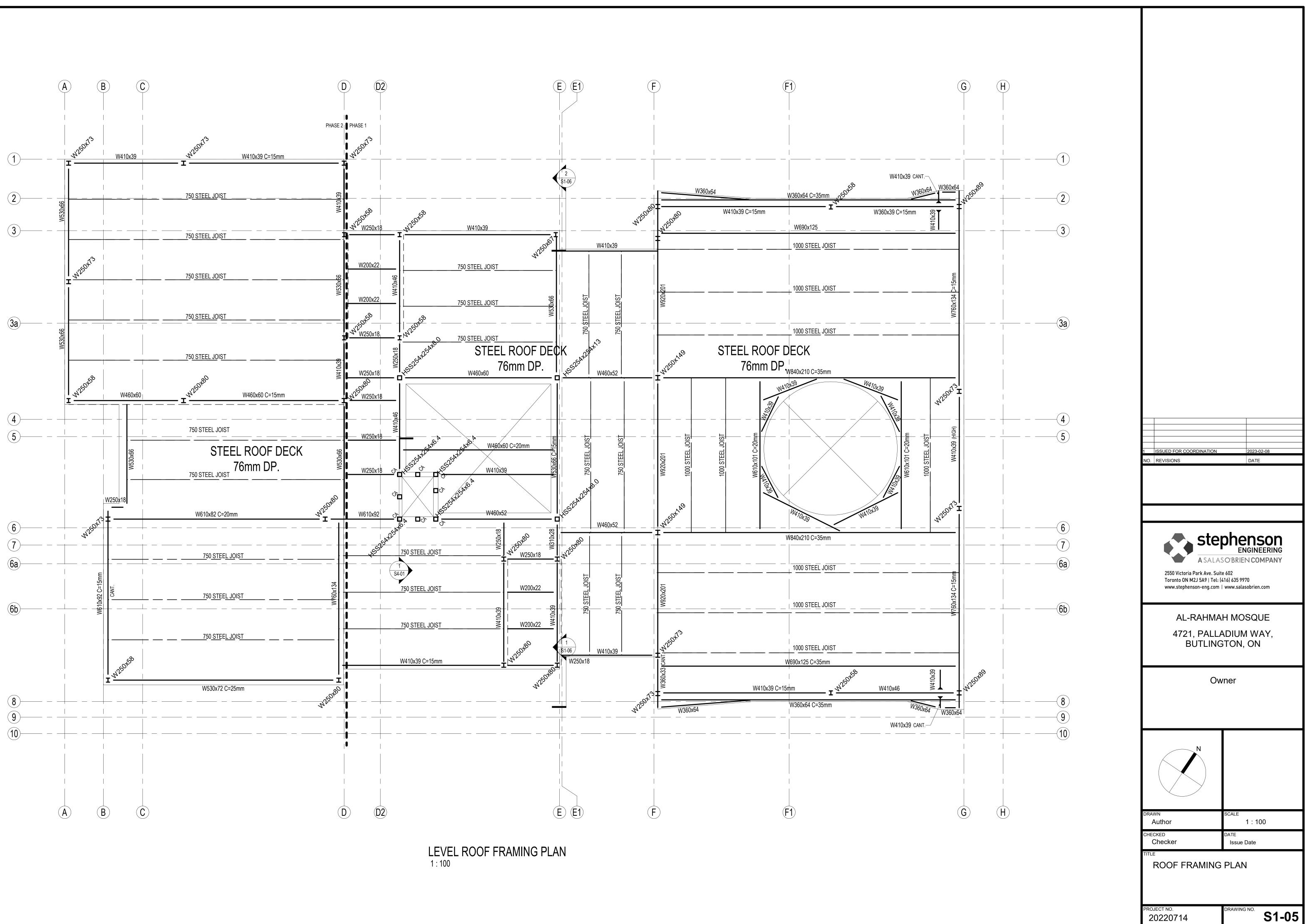
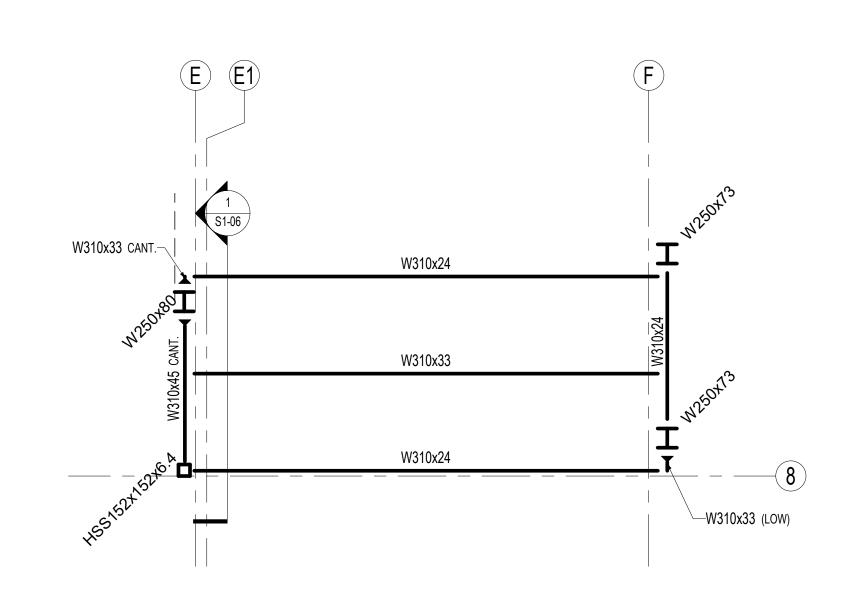


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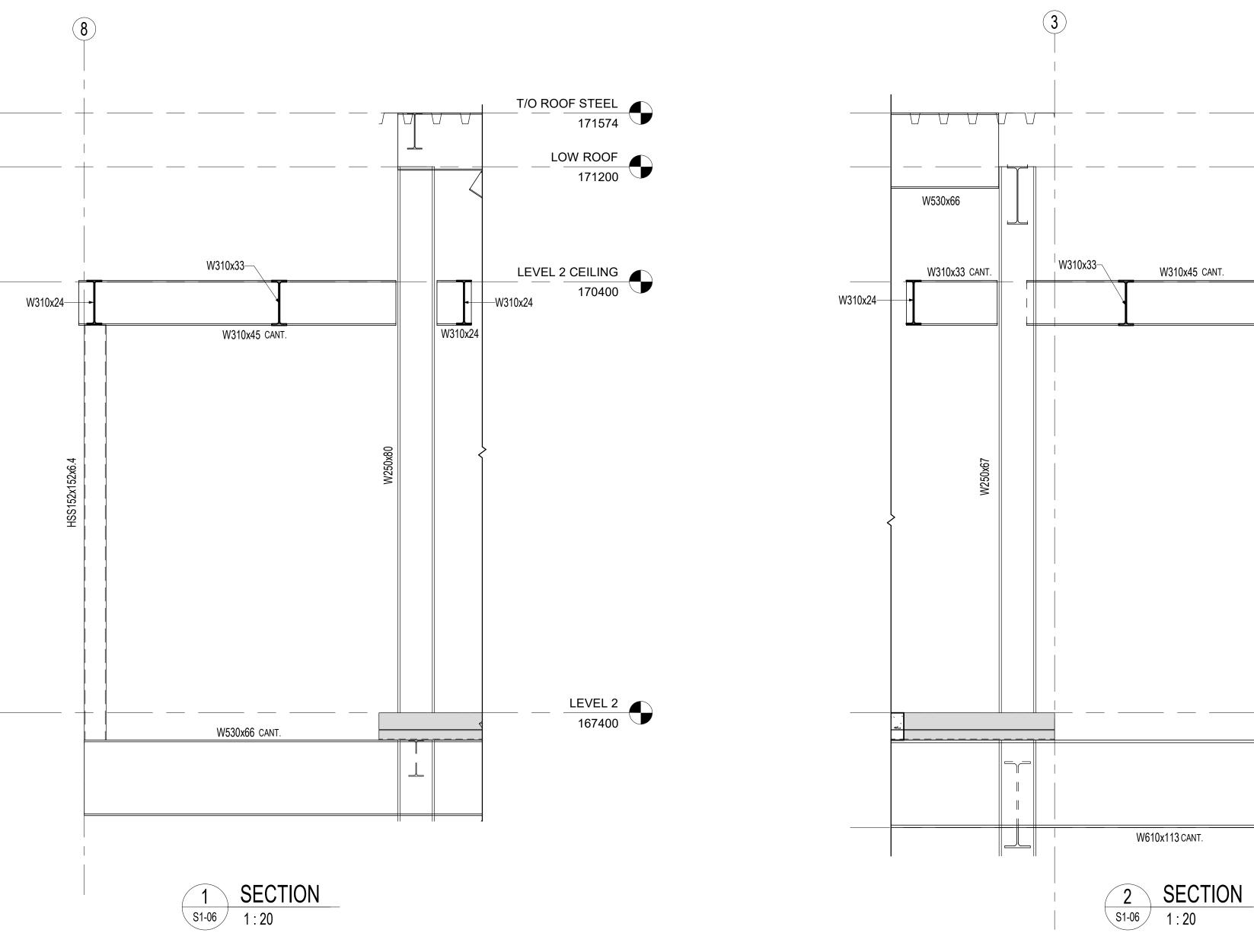


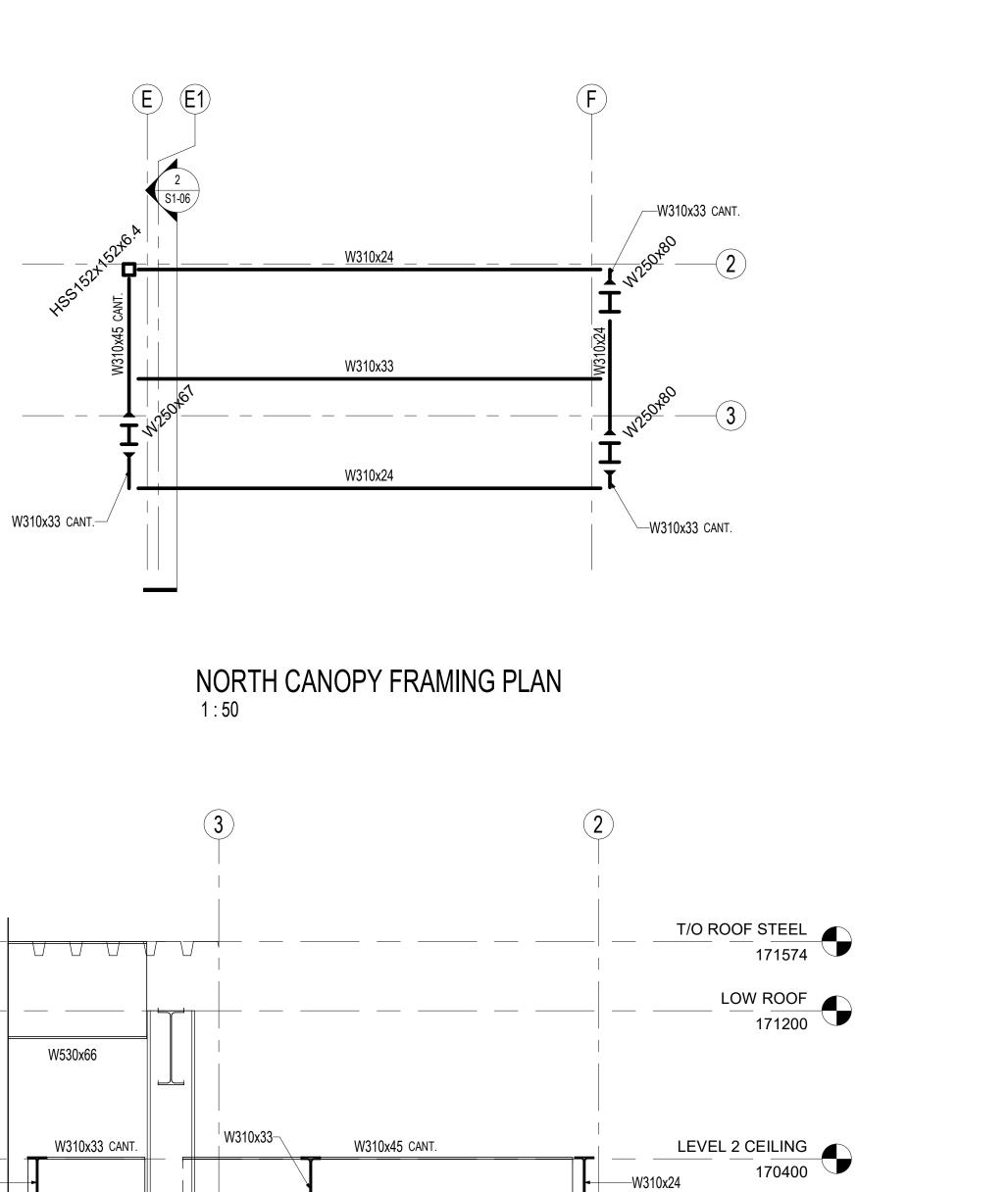
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SOUTH CANOPY FRAMING PLAN



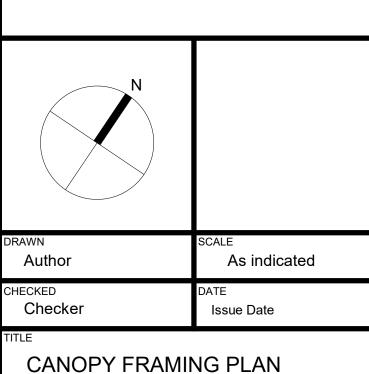
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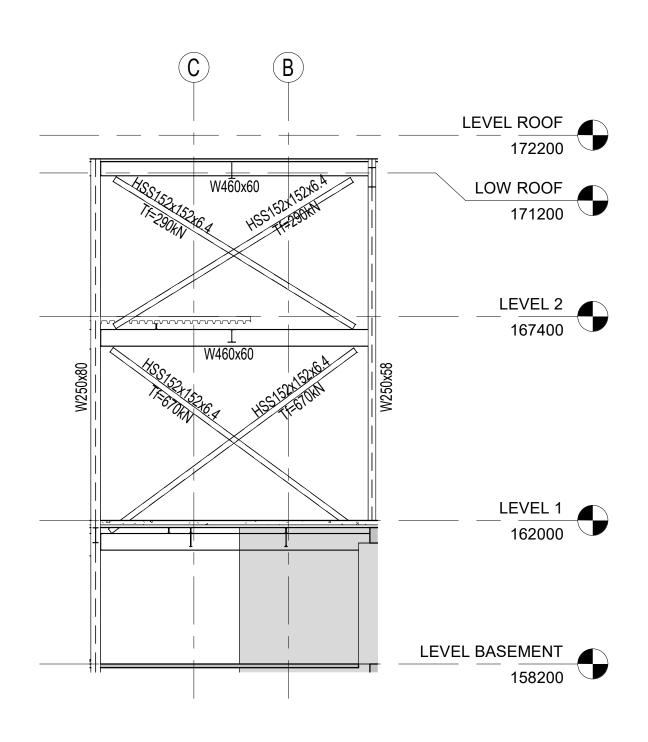
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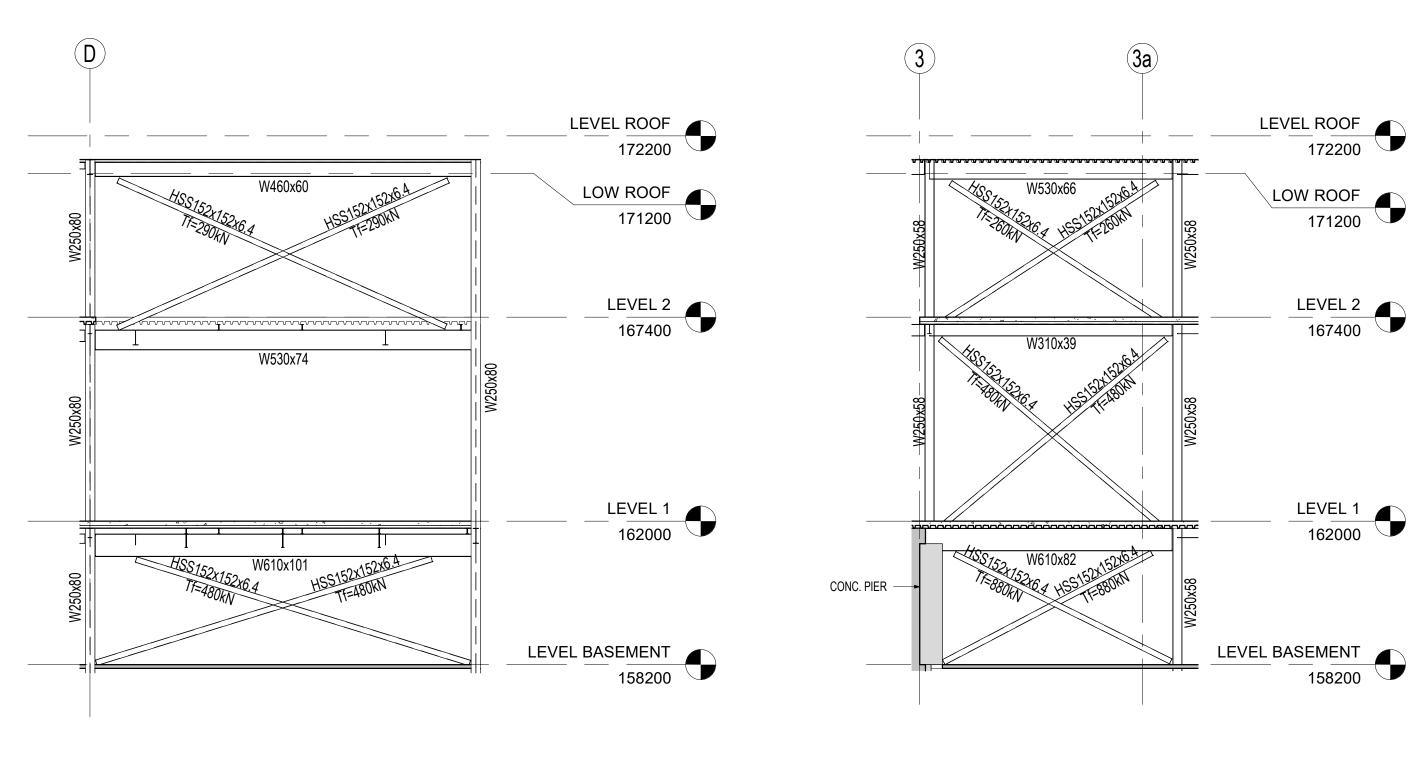
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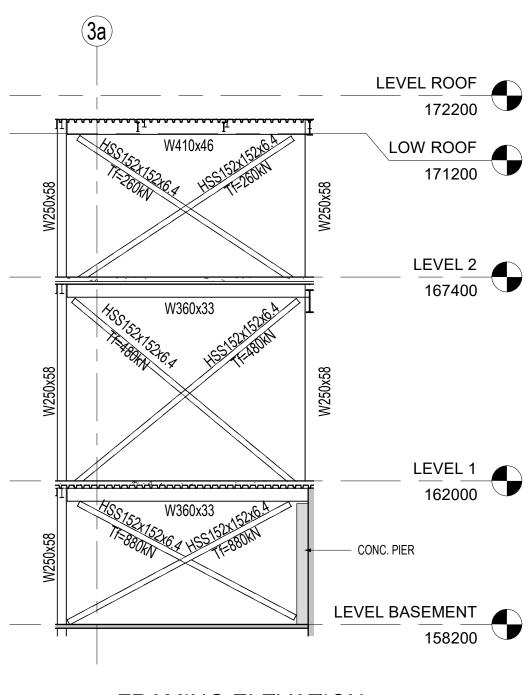
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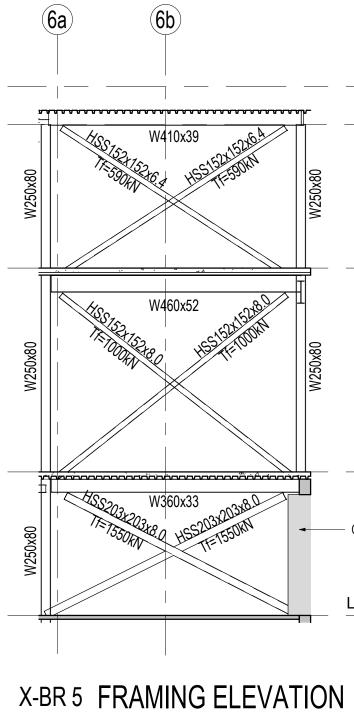


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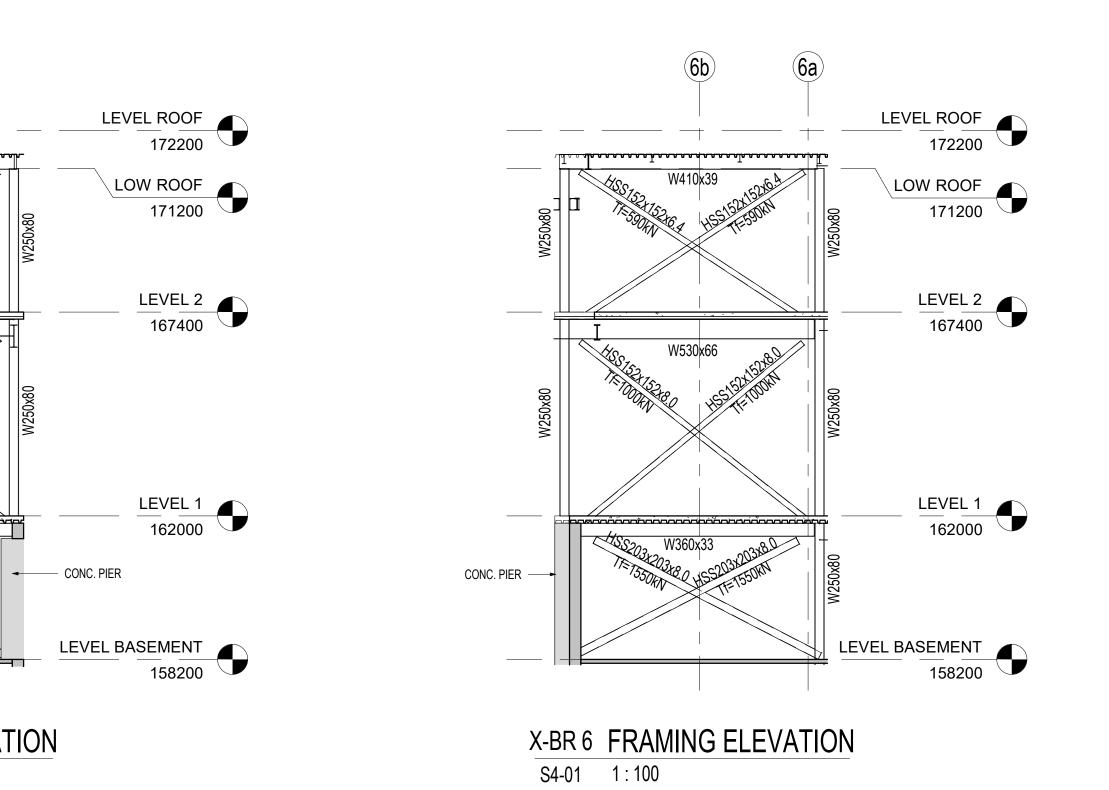


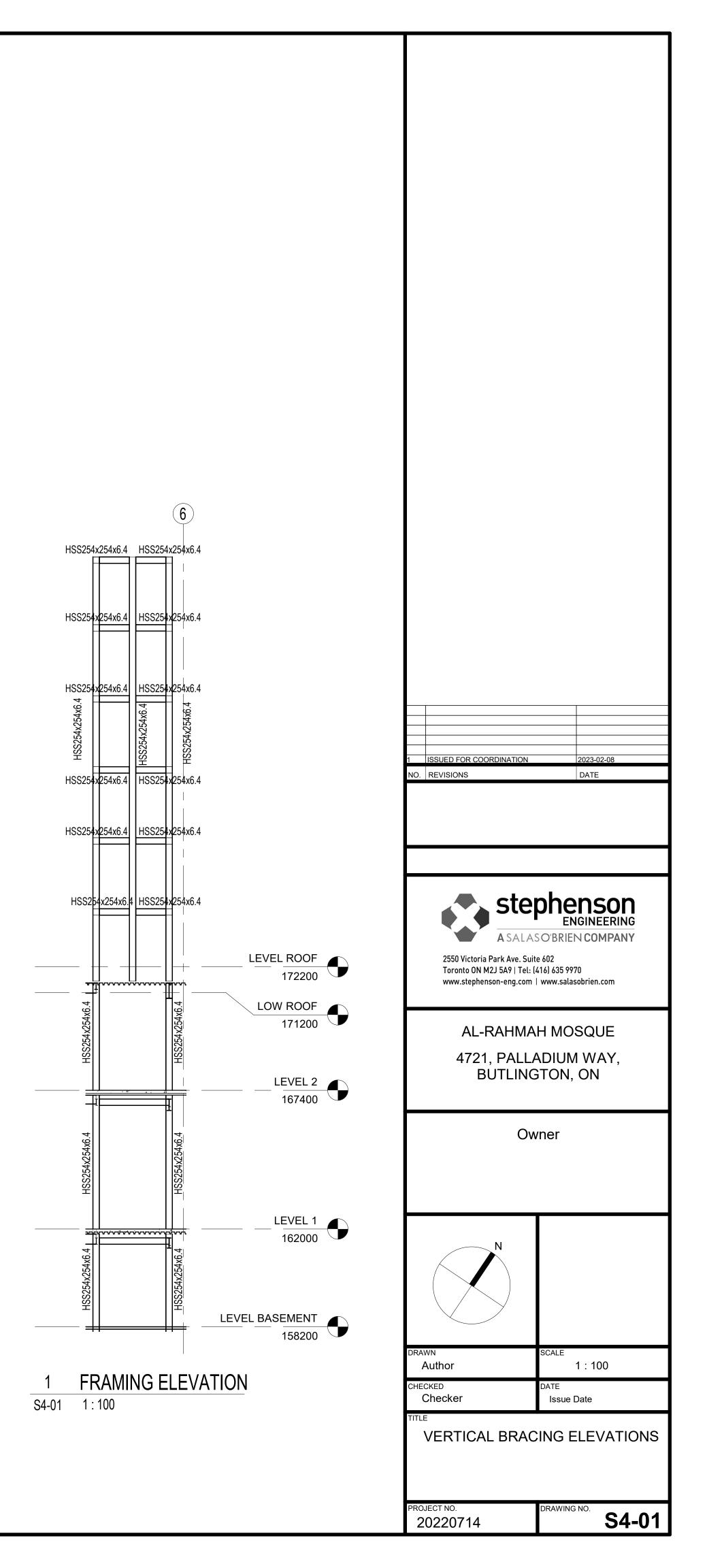


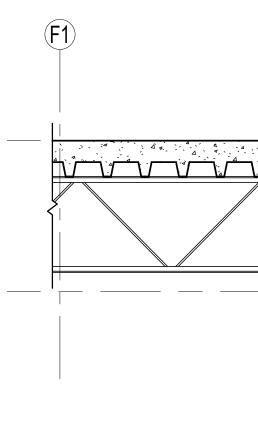


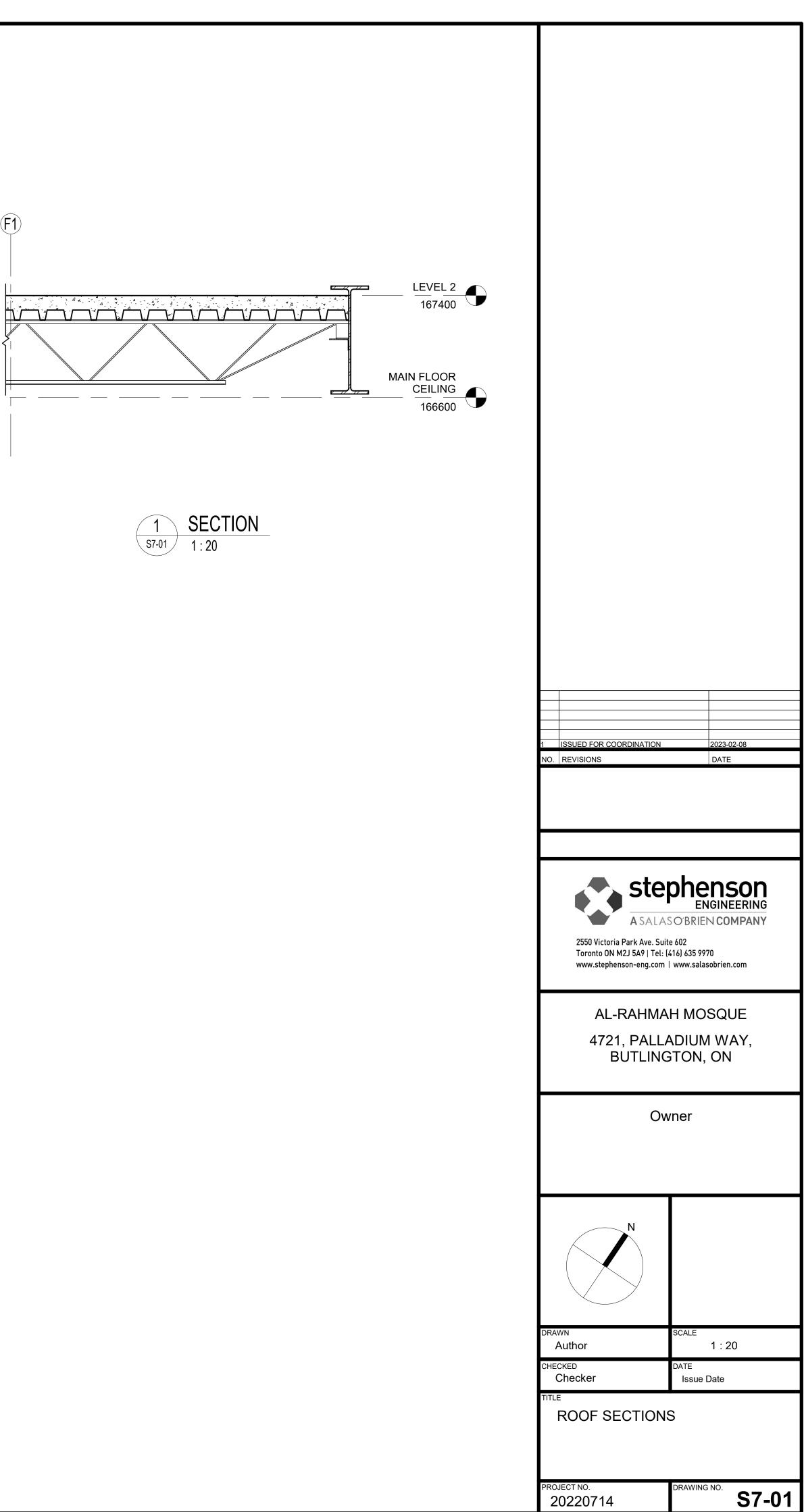
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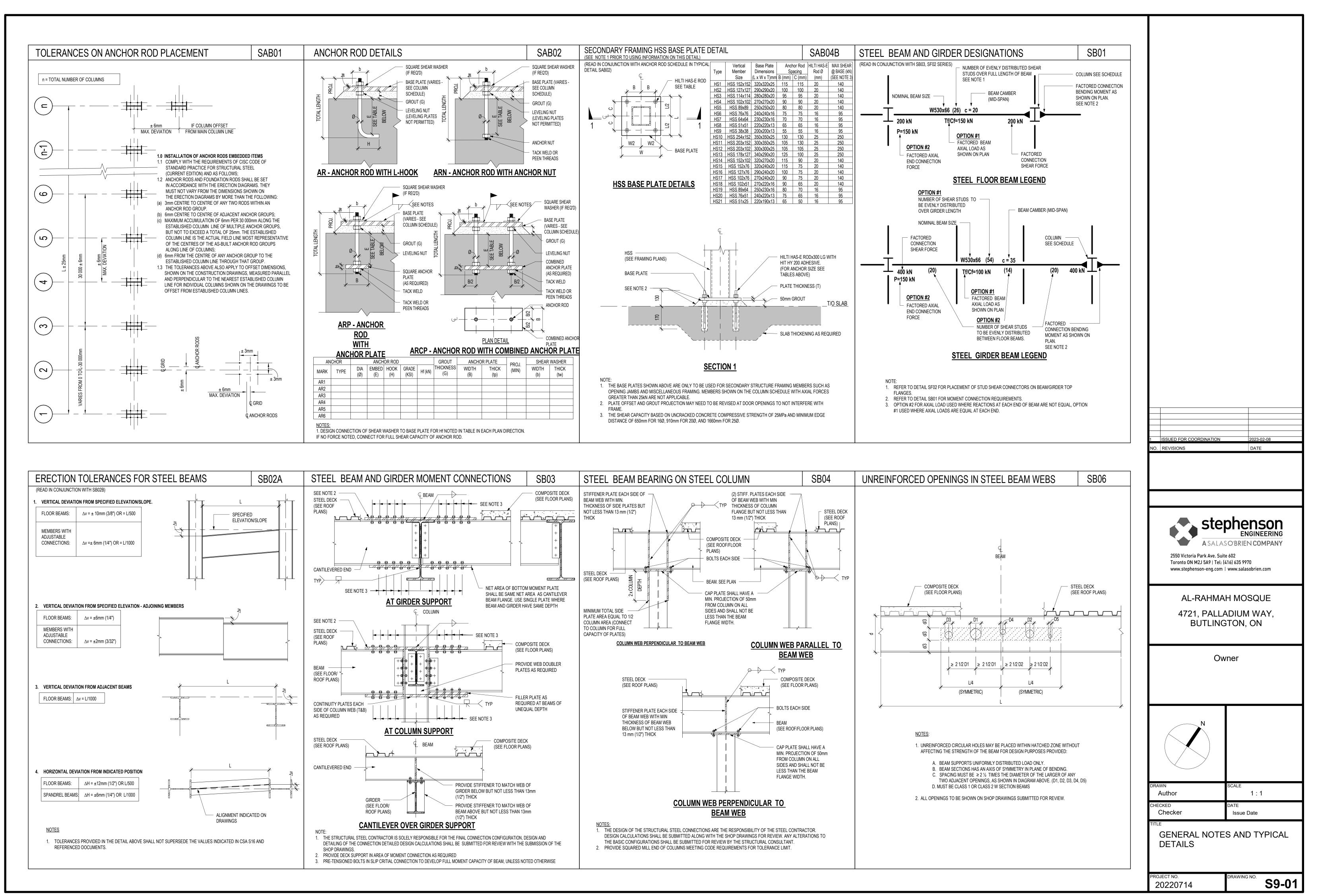
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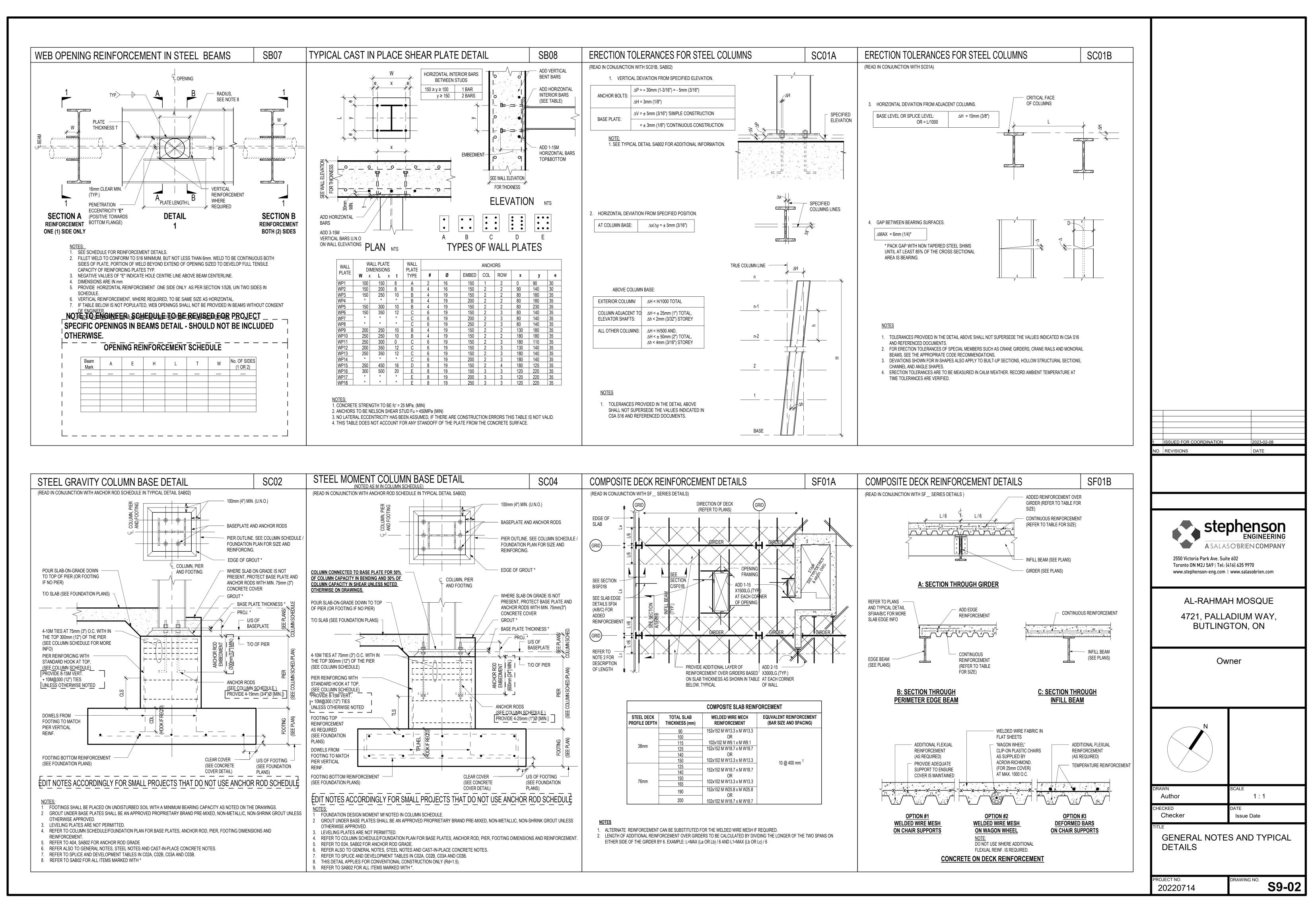


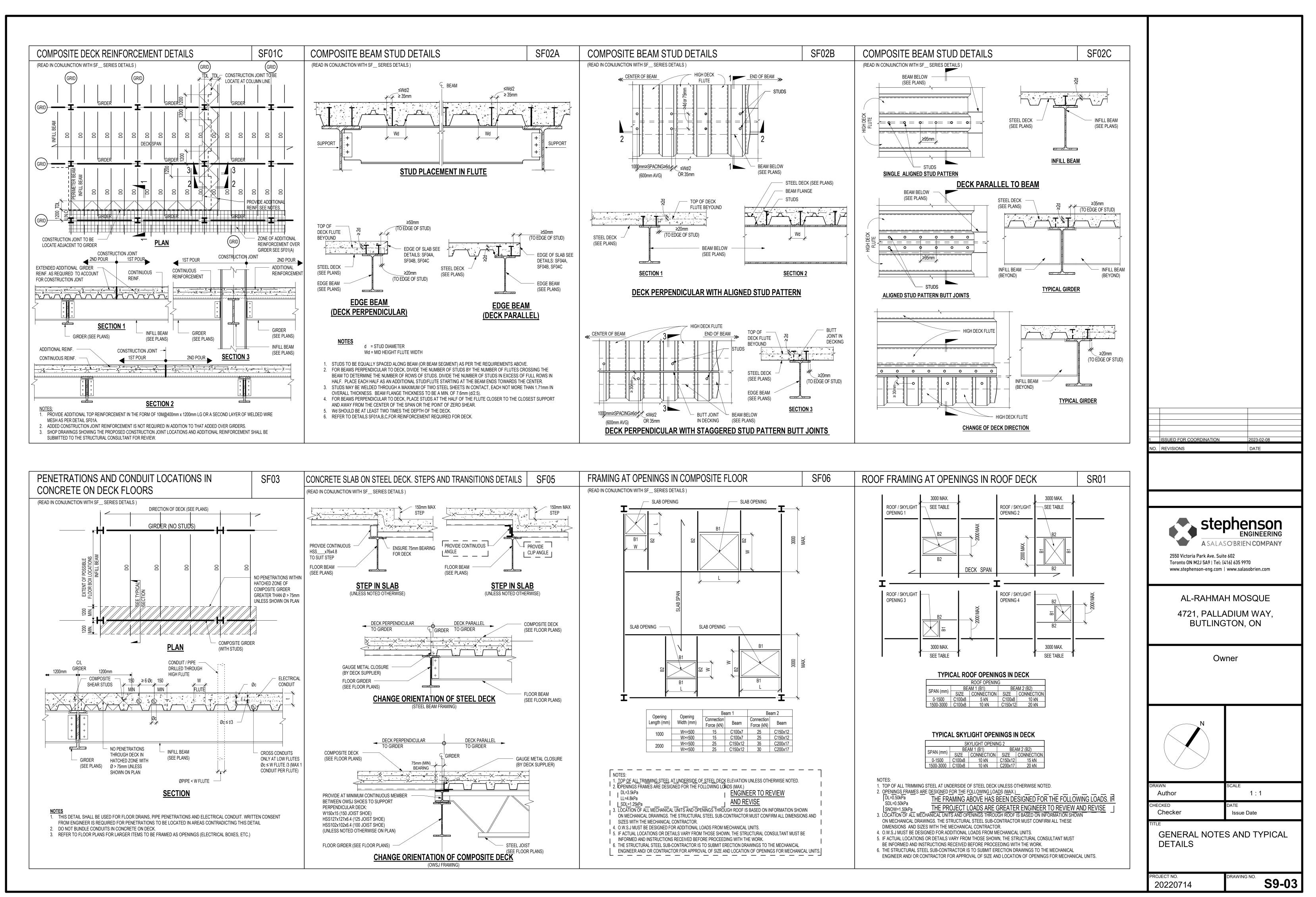


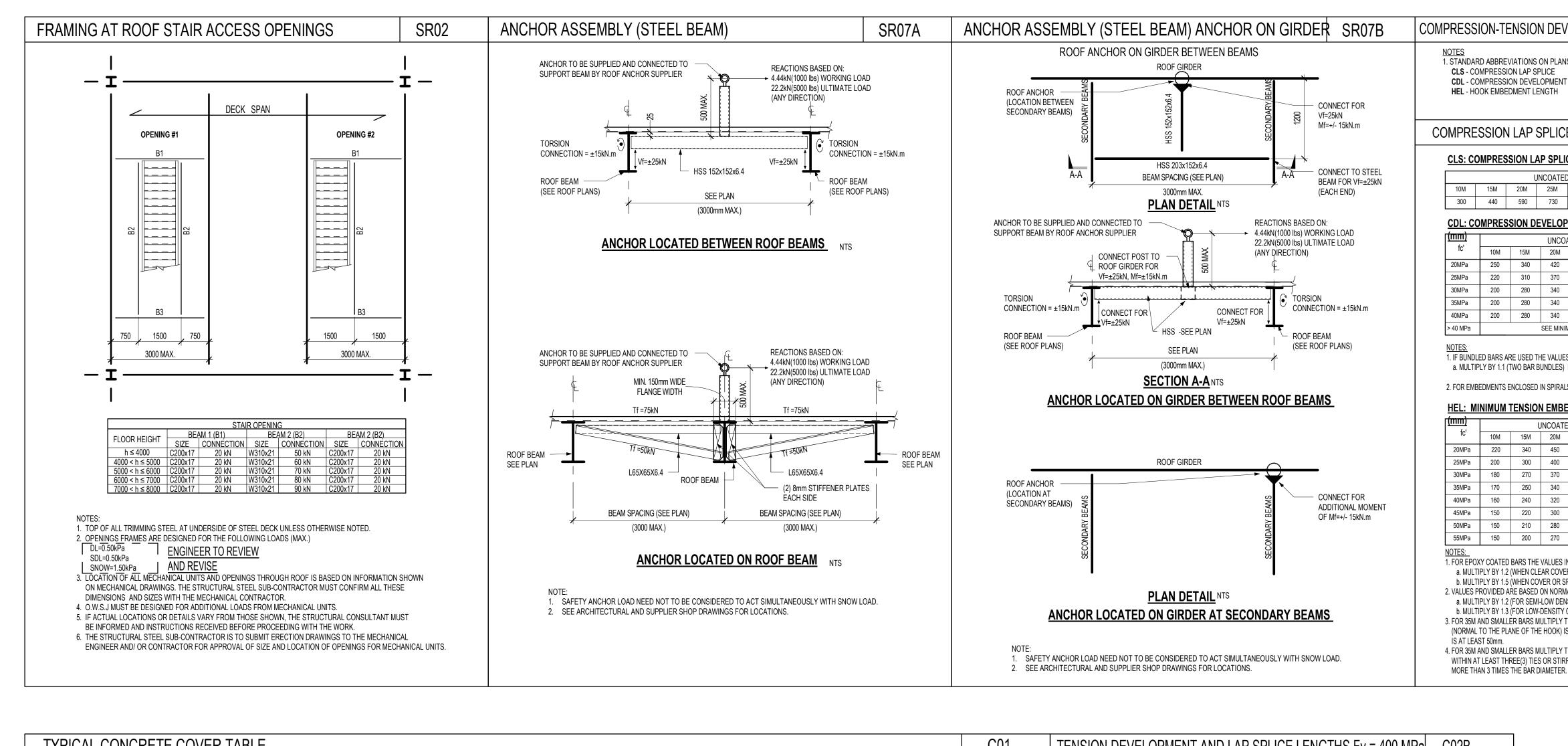












JLD BE AS FOLLOW
_ENGTHS (Fy = 400 MPa)
LENGTHS (Fy = 400 MPa)
LENGTHS (Fy = 400 MPa)
LENGTHS (Fy = 400 MPa)
D BLACK BAR
25M 30M 35M
m Top Bottom Top Bottom Top Bottom
1710 1310 2050 1570 2390 1840
1530 1170 1830 1410 2130 1640
1390 1070 1670 1290 1950 1500 1290 990 1550 1190 1800 1390
1290 990 1550 1190 1800 1390 1210 930 1450 1110 1690 1300
1210 950 1450 1110 1690 1500 1140 880 1370 1050 1590 1230
1080 830 1300 1000 1510 1160
1030 790 1240 950 1440 1110
990 760 1180 910 1380 1060
960 740 1150 880 1340 1030
A" LAP SPLICE
D BLACK BAR
25M 30M 35M
m Top Bottom Top Bottom Top Bottom
1310 1010 1570 1210 1840 1410
1170 900 1410 1080 1640 1260
1070 830 1290 990 1500 1160
990 770 1190 920 1390 1070
930 720 1110 860 1300 1000
880 680 1050 810 1230 940
830 640 1000 770 1160 900
760 590 910 700 1060 820 740 570 880 680 1030 790
ESED:
METER AND CLEAR SPACING GREATER THAN 6 X BAR DIAMETER)

8. ALL LOAD BEARING ELEMENTS (WALLS AND COLUMNS) IMMEDIATELY BELOW A FLOOR ASSEMBLY MUST HAVE A FIRE-RESISTANCE RATING NOT LESS THAN THAT FOR THE SUPPORTED ASSEMBLY.

COMPRESSION-TENSION DEVELOPMENT AND LAP LENGTHS Fy = 400 MPa C02A NOTES 1. STANDARD ABBREVIATIONS ON PLANS AND SCHEDULES SHOULD BE AS FOLLOWS CDL - COMPRESSION DEVELOPMENT LENGTH COMPRESSION LAP SPLICE AND DEVELOPMENT LENGTHS (Fy = 400 MPa) CLS: COMPRESSION LAP SPLICE LENGTH (mm) UNCOATED BLACK BAR 10M 15M 20M 25M 30M 35M 45M 55M 300 440 590 730 880 1030 NOT PERMITTED CDL: COMPRESSION DEVELOPMENT LENGTH UNCOATED BLACK BAR 10M 15M 20M 25M 30M 35M 45M 55M 20MPa 250 340 420 540 640 770 940 1210 220 310 370 600 570 690 840 1080 200 280 340 440 530 630 770 990 35MPa 200 280 340 440 530 630 770 990 40MPa 200 280 340 440 530 630 770 990 SEE MINIMUM VALUES FOR fc = 40 MPa 1. IF BUNDLED BARS ARE USED THE VALUES IN THE TABLES MUST BE INCREASED: a. MULTIPLY BY 1.1 (TWO BAR BUNDLES) b. MULTIPLY BY 1.2 (THREE BAR BUNDLES) c. MULTIPLY BY 1.33 (FOUR BAR BUNDLES) 2, FOR EMBEDMENTS ENCLOSED IN SPIRALS, MULTIPLY BY 0.75, BUT NOT LESS THAN 200mm. HEL: MINIMUM TENSION EMBEDMENT LENGTH WITH STANDARD HOOK UNCOATED BLACK BAR 10M 15M 20M 25M 30M 35M 45M 55M 20MPa 220 340 450 560 670 780 1010 1230 25MPa 200 300 400 500 600 700 900 1100 30MPa 180 270 370 460 550 640 830 1010 35MPa 170 250 340 420 510 590 770 930 40MPa 160 240 320 400 470 550 720 870 45MPa 150 220 300 370 450 520 680 820 50MPa 150 210 280 350 420 490 640 780 55MPa 150 200 270 340 400 470 610 750 1. FOR EPOXY COATED BARS THE VALUES IN THE TABLES MUST BE INCREASED: a. MULTIPLY BY 1.2 (WHEN CLEAR COVER GREATER THAN 3 X BAR DIAMETER AND CLEAR SPACING GREATER THAN 6 X BAR DIAMETER) b. MULTIPLY BY 1.5 (WHEN COVER OR SPACING ARE LESS THAN ABOVE) 2. VALUES PROVIDED ARE BASED ON NORMAL WEIGHT CONCRETE AND MUST BE INCREASED FOR LIGHTWEIGHT CONCRETES: a. MULTIPLY BY 1.2 (FOR SEMI-LOW DENSITY CONCRETE) b. MULTIPLY BY 1.3 (FOR LOW-DENSITY CONCRETE) 3. FOR 35M AND SMALLER BARS MULTIPLY THE VALUES IN THE TABLE BY 0.7 (BUT NOT LESS THAN 150mm) WHERE THE SIDE COVER (NORMAL TO THE PLANE OF THE HOOK) IS AT LEAST 60mm, AND FOR 90° HOOKS WHERE COVER ON THE BAR EXTENSION BEYOND THE HOOK 4. FOR 35M AND SMALLER BARS MULTIPLY THE VALUES IN THE TABLE BY 0.8 (BUT NOT LESS THAN 150mm) WHERE THE HOOK IS ENCLOSED WITHIN AT LEAST THREE(3) TIES OR STIRRUPS SPACED ALONG A LENGTH EQUAL TO THE INSIDE DIAMETER OF THE HOOK AT A SPACING NOT ISSUED FOR COORDINATION O. REVISIONS

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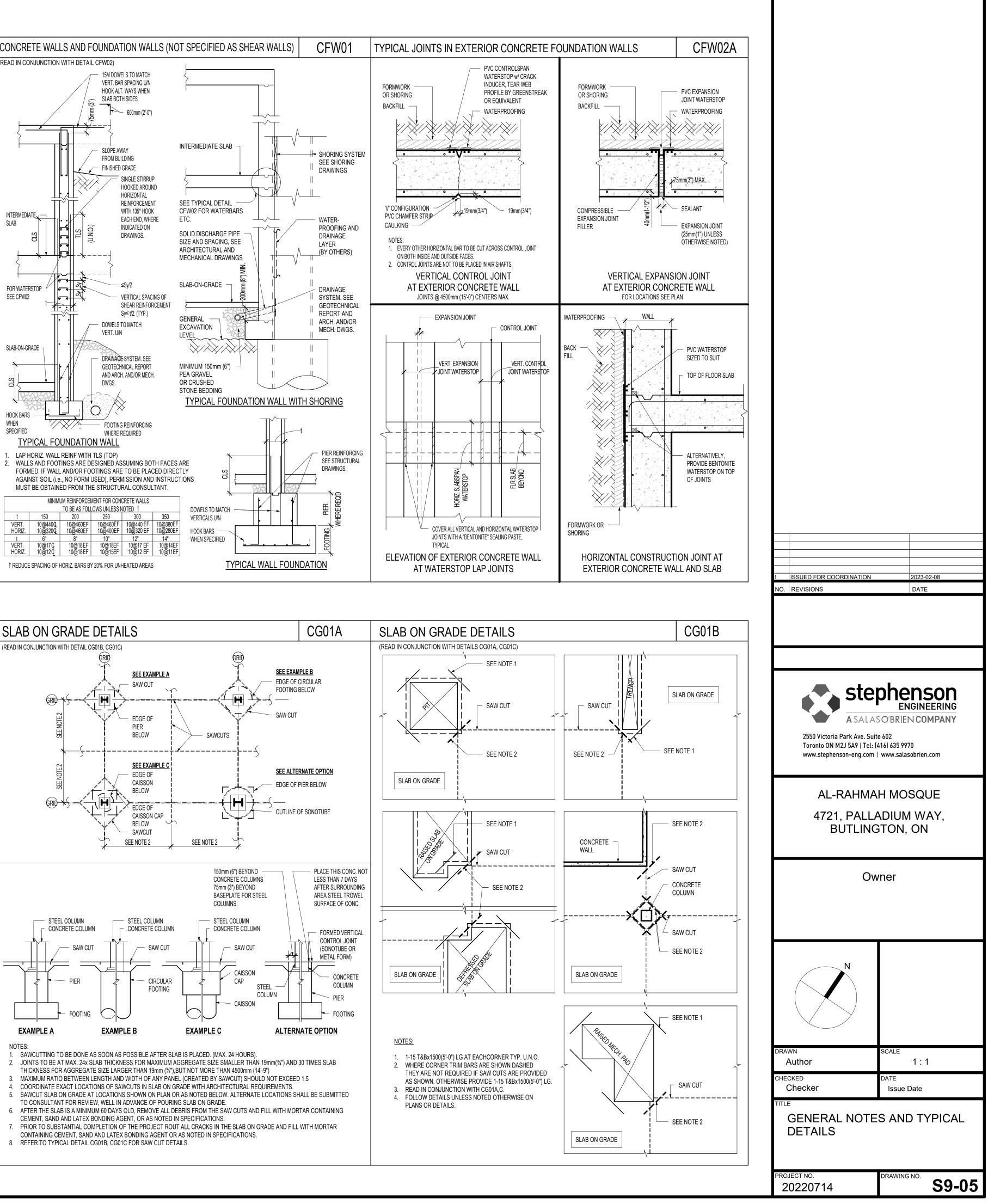
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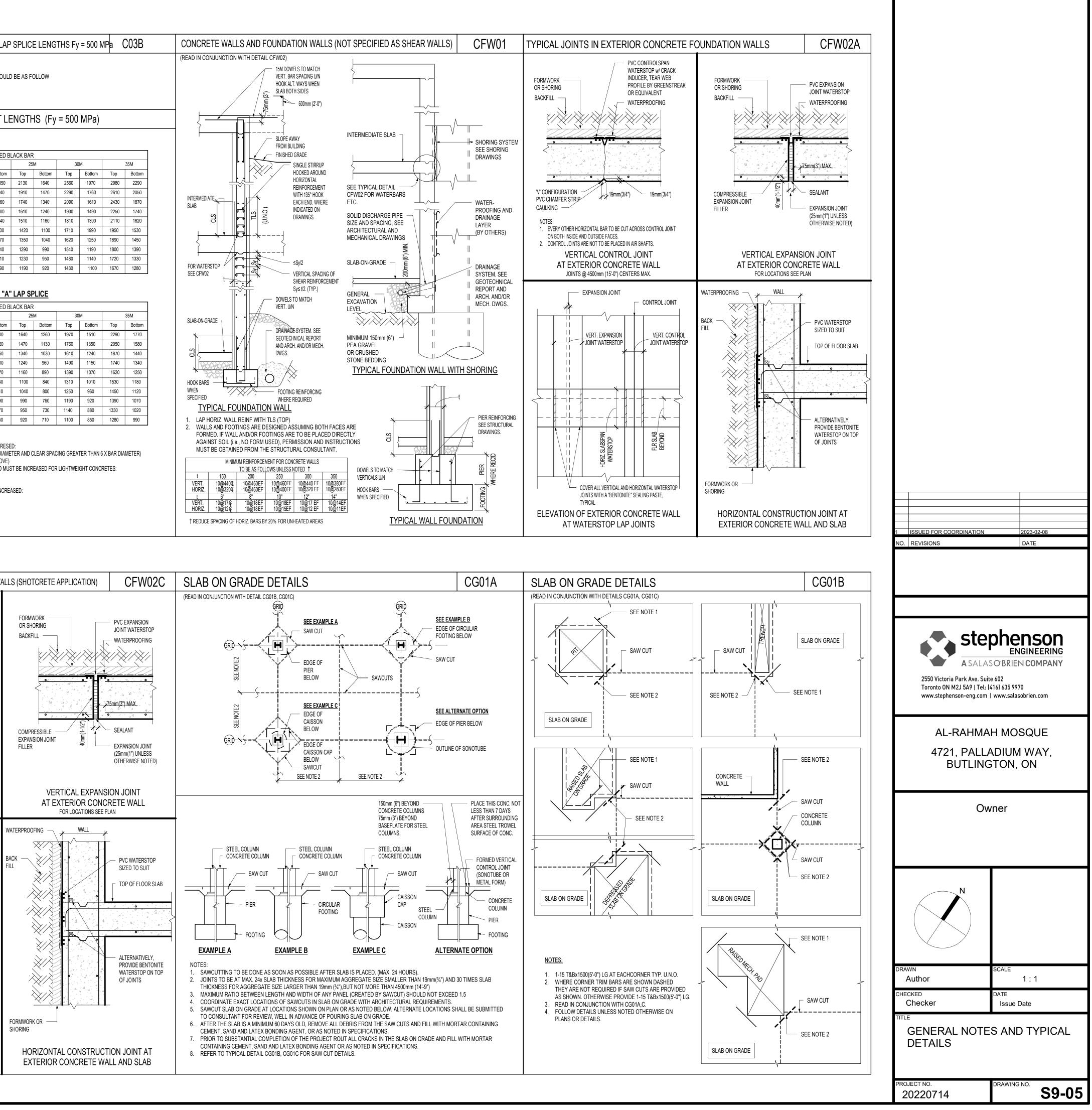
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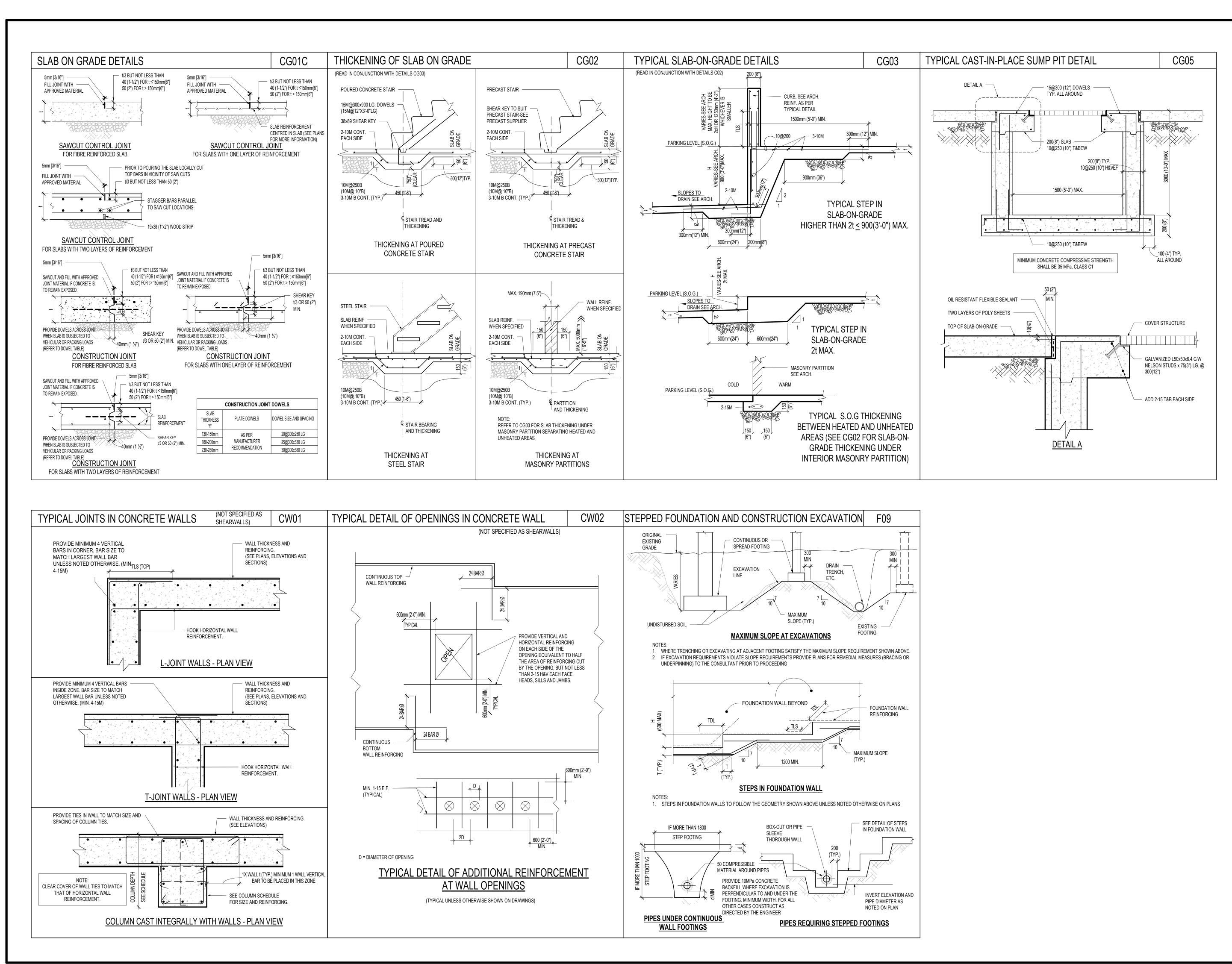
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ENSION AND COMPRESSION DEVELOPMENT AND	D LAP LENGTHS Fy = 500 MPa C03A	TENSION AND COMPRESSION DEVELOPMENT AND	LAP SPLICE LENGTHS Fy = 500 MPa C
1. STANDARD ABBREVIATIONS ON PLANS AND SCHEDULES SHOU CLS - COMPRESSION LAP SPLICE CDL - COMPRESSION DEVELOPMENT LENGTH HEL - HOOK EMBEDMENT LENGTH	ULD BE AS FOLLOWS	NOTES 1. STANDARD ABBREVIATIONS ON PLANS AND SCHEDULES SH TLS - TENSION LAP SPLICE TDL - TENSION DEVELOPMENT LENGTH	HOULD BE AS FOLLOW
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CLS: COMPRESSION LAP SPLICE LENGTH (mm)		TLS: TENSION LAP SPLICE LENGTH (CLASS B) (mm))
UNCOATED BLACK BAR 10M 15M 20M 25M 30M 35M 45		fC' Tage Determ Tage Determ Tage Determ	TED BLACK BAR 25M 30M 3
430 640 850 1070 1280 1490 NO CDL: COMPRESSION DEVELOPMENT LENGTH	TPERMITTED	Top Bottom Top Bottom <t< td=""><td>Top Bottom Top Bottom Top 1050 2130 1640 2560 1970 2980 040 1040 4470 2000 1470 2640</td></t<>	Top Bottom Top Bottom Top 1050 2130 1640 2560 1970 2980 040 1040 4470 2000 1470 2640
(mm) UNCOATED BLACK BAR fc' 10M 15M 20M 25M 30M 3M 30M 3M	35M 45M 55M	30MPa 560 430 840 650 1120 8	940 1910 1470 2290 1760 2610 860 1740 1340 2090 1610 2430 800 1610 1240 1930 1490 2250
	960 1180 1520 860 1050 1350	40MPa 490 370 730 560 970 5	300 1010 1240 1930 1490 2230 740 1510 1160 1810 1390 2110 700 1420 1100 1710 1990 1950
	790 960 1240 790 960 1240	50MPa 440 340 650 500 870 6	1700 1710 1710 1700 1800 670 1350 1040 1620 1250 1890 640 1290 990 1540 1190 1800
40MPa 250 350 430 550 660 > 40 MPa SEE MINIMUM VALUES FOR fc = 40 MP	790 960 1240 'a	60MPa 400 310 590 460 790 6	610 1230 950 1340 1130 1600 610 1230 950 1480 1140 1720 590 1190 920 1430 1100 1670
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fc' UNCOATED BLACK BAR	35M 45M 55M	20MPa 530 410 790 610 1050 8	Top Bottom Top Bottom Top 310 1640 1260 1970 1510 2290
20MPa 280 420 560 700 840	980 1260 1540 880 1130 1380	30MPa 430 330 650 500 860 6	720 1470 1130 1760 1350 2050 560 1340 1030 1610 1240 1870 560 1340 000 1470 1240 1870
	800 1030 1260 740 960 1170	40MPa 370 300 560 430 740 5	510 1240 960 1490 1150 1740 570 1160 890 1390 1070 1620 540 1400 840 1240 1040 1500
	700 890 1090 660 840 1030	50MPa 340 300 500 390 670 5	540 1100 840 1310 1010 1530 510 1040 800 1250 960 1450 100 900 760 1100 920 1300
	620 800 980 590 760 930	60MPa 310 300 460 350 610 4	190 990 760 1190 920 1390 170 950 730 1140 880 1330 150 920 710 1100 850 1280
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MORE THAN 3 TIMES THE BAR DIAMETER.		C. MULTIPLY BY 1.33 (FOUR BAR BUNDLES)	VALLS (SHOTCRETE APPLICATION)
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MORE THAN 3 TIMES THE BAR DIAMETER.	OUNDATION WALLS CFW02B	C. MULTIPLY BY 1.33 (FOUR BAR BUNDLES)	FORMWORK PVC E OR SHORING JOINT
MORE THAN 3 TIMES THE BAR DIAMETER.	OUNDATION WALLS CFW02B	C. MULTIPLY BY 1.33 (FOUR BAR BUNDLES)	FORMWORK PVC FOR SHORING JOINT
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MORE THAN 3 TIMES THE BAR DIAMETER.	OUNDATION WALLS CFW02B	C. MULTIPLY BY 1.33 (FOUR BAR BUNDLES)	FORMWORK OR SHORING BACKFILL WATE
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