

GENERAL NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS FOR BUILDING (INCLUDING EXISTING STRUCTURAL MEMBER SIZES) PRIOR TO COMMENCEMENT OF WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- STRUCTURAL DRAWINGS SHOW THE COMPLETED PROJECT. THEY DO NOT SHOW COMPONENTS WHICH MAY BE NECESSARY FOR CONSTRUCTION SAFETY. CONTRACTOR IS RESPONSIBLE FOR SAFETY ON AND ABOUT THE JOB SITE DURING CONSTRUCTION.
- CONTRACTOR TO ENSURE THAT ALL WORK IS CARRIED OUT BY THE RULES AND CUSTOMS OF THE BEST TRADE PRACTICES AND THEIR SPECIFICATIONS BY SKILLED TRADES PEOPLE KNOWLEDGEABLE OF THE TYPE OF CONSTRUCTION THEY ARE TO BE PROPERLY EQUIPPED AND SUPERVISED.
- NOTIFY WSP 24 HOURS IN ADVANCE FOR CONSTRUCTION REVIEW OF THE STRUCTURAL PORTION OF THE BUILDING AS SHOWN ON THE STRUCTURAL DRAWINGS IN ACCORDANCE WITH DIVISION C PART 2 OF THE BRITISH COLUMBIA BUILDING CODE 2012.
- SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR SLEEVES, INSERTS, ETC. TO BE ENCASED IN CONCRETE.
- THESE STRUCTURAL DRAWINGS DO NOT INCLUDE DETAILS FOR BUILDING ENVELOPE, WATER PROOFING AND DRAINAGE. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND CIVIL ENGINEERING DRAWINGS AS APPROPRIATE.
- STRUCTURAL DESIGN DATA:
 - ENGINEER OF RECORD: JAMES GALLOHAY P.ENG.
 - DESIGN CODE: BRITISH COLUMBIA BUILDING CODE 2012 - PART 4.

DESIGN PARAMETERS POWELL RIVER				
BUILDING IMPORTANCE CATEGORY NORMAL				
SNOW LOAD PARAMETERS				
S _s = 1.9 kPa S _r = 0.40 kPa I _s [SLS] = 1.0 I _s [SLS] = 0.9				
WIND LOAD PARAMETERS				
q ₅₀ = 0.51 kPa I _w [SLS] = 1.0 I _w [SLS] = 0.75				
SEISMIC PARAMETERS				
S _a (0.2) = 0.49 S _a (0.5) = 0.49 S _a (1.0) = 0.29 S _a (2.0) = 0.16 PGA = 0.31				
I _e = 1.0				
SITE CLASS: D (SEE GEOTECHNICAL REPORT)				
SFRS	CONVENTIONAL CONSTRUCTION			
NORTHSOUTH DIR.	R _d = 1.5 R _o = 1.3			
SFRS	CONVENTIONAL CONSTRUCTION			
EASTWEST DIR.	R _d = 1.5 R _o = 1.3			
ANALYSIS METHOD:	EQUIVALENT STATIC ANALYSIS			
DESIGN LOADS				
GRAVITY				
	SNOW (kPa)	LIVE (kPa)	DEAD (kPa)	PARTITION (kPa)
ROOF	1.92	1.00	1.10	-
CORRIDORS/EXITS	-	4.80	0.72	-
MAN FLOOR	-	4.80	0.72	1.00
[FOR SNOW BUILD-UP DIAGRAM, SEE PLANS] [SUPERIMPOSED DEAD LOAD INCLUDES PARTITION WHERE APPLICABLE]				

FOUNDATION NOTES

- FOOTINGS HAVE BEEN DESIGNED FOR THE FOLLOWING FACTORED ULTIMATE LIMIT STATE BEARING PRESSURES OF 150 kN/m² IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY WSP CANADA INC, DATED 2017/07/17. FOOTINGS TO BEAR ON COMPACTED ENGINEERED FILL AS DESCRIBED IN THE GEOTECHNICAL REPORT.
- BEARING SURFACES MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO FOOTING CONCRETE BEING PLACED. WSP IS NOT RESPONSIBLE FOR CONFIRMING BEARING CAPACITIES OF SOILS.
- REFER TO GEOTECHNICAL REPORT FOR OTHER SPECIFIC DESIGN REQUIREMENTS FOR FOOTINGS, SOIL SLOPES, FROST PROTECTION, MINIMUM COVER, ETC.
- UNLESS OTHERWISE SHOWN, CENTER FOOTINGS UNDER COLUMNS AND WALLS.
- DOWELS AND ANCHOR BOLTS SHALL BE PLACED BEFORE CONCRETE IS PLACED. USE TEMPLATES TO ENSURE CORRECT PLACEMENT OF DOWELS.
- PROVIDE 2" GROUND SEAL UNDER FOOTINGS WHERE REQUIRED BY SOIL CONDITIONS.
- FOR GROUND ELEVATIONS AND DRAINAGE SLOPES, SEE ARCHITECT'S DRAWINGS.
- FOOTINGS MAY HAVE TO BE LOWERED TO ACCOMMODATE MECHANICAL OR ELECTRICAL SERVICES. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ELEVATIONS OF SAME. DO NOT UNDERMINE FOOTINGS BY EXCAVATIONS FOR SERVICES, PITS, ETC.
- FOOTINGS ELEVATIONS, IF SHOWN, ARE FOR BIDDING PURPOSES ONLY, ARE NOT FINAL, AND MAY VARY ACCORDING TO SITE CONDITIONS. ALL FOOTINGS MUST BE TAKEN TO A BEARING LAYER APPROVED BY THE GEOTECHNICAL ENGINEER.
- PROTECT BEARING SURFACES FROM FREEZING BEFORE AND AFTER FOOTINGS ARE POURED.
- SUB-BASE DESIGN OF SOIL UNDER THE SLAB ON GRADE TO BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

CONCRETE AND REINFORCING NOTES

- CONCRETE TO BE READY MIX CONCRETE CONFORMING TO THE CURRENT STANDARD CSA A23.1/A23.2. CEMENT TO BE TYPE GU OR GU-B HYDRAULIC CEMENT CONFORMING TO CSA A3000. USE ADMIXTURES ONLY WITH WRITTEN APPROVAL OF THE ENGINEER.

LOCATION	28 DAY STRENGTH	SLUMP	MAX AGG	ENTR AIR	CLASS OF EXPOSURE
TYPICAL UN SLABS ON GRADE (EXT)	35 AT 56 DAYS	80	20	5-8	C-1 & S-3
	32	80	20	5-8	C-2

REFER TO PROJECT SPECIFICATIONS FOR MINIMUM CEMENTITIOUS CONTENT, SLUMP, MAXIMUM AGGREGATE SIZE, CLASS OF EXPOSURE AND OTHER REQUIREMENTS.
- REINFORCEMENT TO BE BILLET STEEL CONFORMING TO THE REQUIREMENTS OF THE FOLLOWING CSA STANDARDS: CSA G30.18(R) GRADE 400 ALL REINFORCING UN
- CONCRETE PROTECTION ON PRINCIPAL REINFORCING SHALL BE AS FOLLOWS:

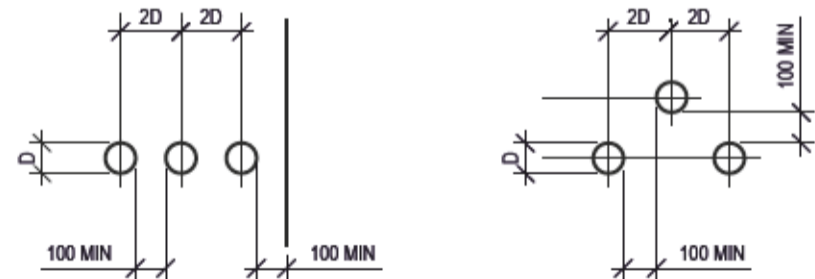
SURFACES PLACED IN CONTACT WITH GROUND:	75mm [3"]
FORMED SURFACES EXPOSED TO GROUND OR WEATHER:	50mm [2"]
BEAMS AND COLUMNS:	50mm [2"]
COLUMN TIES AND BEAM STIRRUPS:	40mm [1 1/2"]
- A CSA CERTIFIED MATERIALS TESTING LABORATORY SHALL BE APPOINTED TO REVIEW CONCRETE MIXES AND TO GATHER AND TEST CONCRETE CYLINDERS. COPIES OF TEST RESULTS TO BE SENT TO THE STRUCTURAL ENGINEER AND CONTRACTOR.
 - A SUFFICIENT NUMBER OF TESTS SHALL BE MADE TO ENSURE A UNIFORM SLUMP OF CONCRETE. A SLUMP TEST SHALL BE MADE WITH EVERY STRENGTH TEST AND EVERY SECOND OR THIRD AIR TEST.
 - AN AIR CONTENT DETERMINATION SHALL BE MADE WITH EVERY STRENGTH TEST.
 - NOT LESS THAN ONE STRENGTH TEST (SET OF THREE CYLINDERS) SHALL BE MADE FOR EACH 100 CUBIC METERS OF CONCRETE PLACED, AND IN NO CASE SHALL THERE BE FEWER THAN ONE TEST FOR EACH CLASS OF CONCRETE PLACED ON ANY ONE DAY, AS DESIGNATED BY THE OWNER, WHEN HIGH-PERFORMANCE OR HIGH-STRENGTH CONCRETE IS INVOLVED, OR WHERE STRUCTURAL REQUIREMENTS ARE CRITICAL, THE OWNER MAY REQUIRE A HIGHER FREQUENCY OF TESTING, WHICH SHALL BE DEFINED IN THE CONTRACT DOCUMENTS.
- HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS AROUND CORNERS AND HOOKED AT WALL INTERSECTIONS. ADD 2-15M CONT AT TOPS AND ENDS OF WALLS. UNLESS OTHERWISE NOTED, HOOK AND LAP LENGTHS AS FOLLOWS:

BAR SIZE	VERT LAP	HORL LAP	HOOK LENGTH
10M	430mm [17"]	500mm [20"]	180mm [7"]
15M	600mm [24"]	800mm [32"]	250mm [10"]
20M	750mm [30"]	1000mm [40"]	300mm [12"]
25M	1200mm [48"]	1550mm [60"]	400mm [16"]
30M	1450mm [57"]	1850mm [72"]	600mm [24"]
- ADD 2-15M PARALLEL TO EACH SIDE OF OPENINGS IN WALLS AND SLABS, EXTENDING 600mm [24"] BEYOND CORNERS UNLESS OTHERWISE SHOWN.
- REINFORCING SHALL BE PLACED AND BENT IN ACCORDANCE WITH CSA A23.1.
- REINFORCING BARS SHALL BE ACCURATELY PLACED, ADEQUATELY SUPPORTED, AND SECURED AGAINST DISPLACEMENT PRIOR TO PLACING OF CONCRETE.
- ALL BEAM STIRRUPS, COLUMN TIES AND WALL ZONE HOOPS SHALL HAVE 135 DEGREE HOOKS UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE NOTED, SLAB REINFORCING NOT TO BE CUT AT PLUMBING, DUCTS, OR AROUND OTHER OPENINGS. SPREAD REINFORCING AROUND OPENINGS.
- FOR ADHESIVE SET REINFORCING BAR USE HILTI HIT HY200 MAX INJECTION ADHESIVE SYSTEM OR APPROVED EQUAL. INSTALL STRICTLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- FOR ADHESIVE SET THREADED ANCHORS USE HILTI HIT HY200 MAX INJECTION ADHESIVE SYSTEM WITH ASTM A193(B7) [A307] THREADED RODS OR APPROVED EQUAL. INSTALL STRICTLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- REINFORCING STEEL WITH 3000mm [10'-0"] OF ELECTRICAL TRANSFORMERS TO BE EPOXY COATED.
- ALL CONCRETE IS TO BE VIBRATED.

CONDUITS, PIPES, SLEEVES ETC IN RAFT SLAB

EXCEPT AS APPROVED BY THE STRUCTURAL ENGINEER, PIPES, CONDUITS, AND SLEEVES EMBEDDED IN CONCRETE TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING GUIDELINES:

- CENTERLINE SPACING BETWEEN CONDUITS ETC. TO BE NO LESS THAN 150mm [6"].
- CENTERLINE SPACING BETWEEN PARALLEL CONDUIT AND REINFORCING BARS TO BE NO LESS THAN 3 DIAMETERS.
- ADDED REINFORCING AT POINTS OF CONGESTION TO BE AS DIRECTED BY THE STRUCTURAL ENGINEER AT THE CONTRACTOR'S COST.
- SLABS:
 - LOCATE CONDUITS ETC. BETWEEN TOP AND BOTTOM REINFORCING
 - MAXIMUM ALLOWABLE SIZE (OUTSIDE DIAMETER) TO BE 25mm [1"]
 - THREE LAYERS CROSSING IS NOT PERMITTED.
 - CONDUITS RUNNING PARALLEL TO BEAMS AND WALLS OR NEAR COLUMNS TO A MINIMUM OF 400mm [16"] AWAY FROM SUPPORT.
- COLUMNS: SLEEVES AND EMBEDDED PIPING WILL NOT BE PERMITTED, UNLESS BY WRITTEN APPROVAL OF STRUCTURAL ENGINEER.
- BEAMS: SLEEVES AND EMBEDDED PIPING TO BE AS DIRECTED BY THE STRUCTURAL ENGINEER.
- NO OPENINGS IN WALLS WITHIN 1200mm [48"] OF THE END OR JUNCTION OF WALLS OR ANOTHER OPENING WILL BE PERMITTED.
- SPACING OF SLEEVES VERTICALLY THROUGH SUSPENDED SLABS TO BE NO LESS THAN THE FOLLOWING:



- SUBMIT LAYOUT PLANS FOR OPENINGS TO BE FORMED OR CANNED IN ALL CORE WALLS AND SLABS TO THE STRUCTURAL ENGINEER FOR APPROVAL BEFORE INSTALLATION.

STRUCTURAL STEEL NOTES

- STRUCTURAL STEEL TO CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:

ROLLED SECTIONS:	G40.21 350W
HSS & LIGHT GAUGE SECTIONS:	G40.21 350W
PIPE:	A53
BOLTS:	ASTM A325
ANCHOR BOLTS:	ASTM F1554 GRADE 36
- FABRICATION, ERECTION, STRUCTURAL DESIGN, & DETAILING OF ALL STRUCTURAL STEEL TO BE IN ACCORDANCE WITH CAN/CSA-S16-09.
- ALL WELDING TO CONFORM TO CSA W59 AND BE PERFORMED BY FABRICATORS "FULLY APPROVED" BY THE CANADIAN WELDING BUREAU UNDER CSA W47. FABRICATING SHOP TO HAVE A DIVISION FOR 2 CERTIFICATION BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA W47.1 AND SUBMIT PROOF OF CERTIFICATION PRIOR TO START OF WORK.
- ALL FIELD WELDS TO BE CLEANED AND PAINTED.
- ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP COAT OF PRIMER PAINT (CISOC/PIMA 1.73A) EXCEPT THAT PARTS OF MEMBERS TO BE EMBEDDED IN CONCRETE ARE NOT TO BE PAINTED.
- ALL WEATHER EXPOSED STRUCTURAL STEEL TO BE HOT DIPPED GALVANIZED, WHERE INDICATED, TO CAN/CSA-G164, MINIMUM ZINC COATING OF 800 GMP.
- STRUCTURAL STEEL SHOP DRAWINGS: SUBMIT 4 COPIES OF SHOP DRAWINGS OR DIGITAL SHOP DRAWINGS TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW PRIOR TO FABRICATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND FIT-UP OF ALL COMPONENTS.
- WHERE SPECIFICALLY CALLED FOR ON THE STRUCTURAL DRAWINGS, CERTAIN CONNECTIONS MAY BE DESIGNED BY A STRUCTURAL ENGINEER RETAINED BY THE FABRICATOR. ALL CONNECTIONS TO BE DESIGNED IN THE ACCORDANCE WITH CAN/CSA S16-01, AND APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. SUBMIT 4 COPIES OF SHOP DRAWINGS OR DIGITAL SHOP DRAWINGS BEARING THE SEAL OF A REGISTERED STRUCTURAL ENGINEER IN BRITISH COLUMBIA. ALL SHOP DRAWINGS MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION.

WOOD FRAMING NOTES

- ALL WOOD FRAMING TO CONFORM TO THE REQUIREMENTS OF PART 9 OF THE BRITISH COLUMBIA BUILDING CODE, LATEST EDITION AND CSA STANDARD 086.1 ENGINEERING DESIGN IN WOOD. ALL STRUCTURAL LUMBER SHALL HAVE AN AVERAGE EQUILIBRIUM MOISTURE CONTENT NOT EXCEEDING 15% OR LESS OVER A YEAR AND NOT EXCEEDING 19% AT ANY TIME.
- SAWN LUMBER FRAMING GRADES AND SPECIES SHALL CONFORM TO STRUCTURAL LUMBER COMPLYING WITH THE REQUIREMENTS OF CSA STANDARD CAN/CSA-014.

GENERALLY, UNLESS SHOWN ON DRAWINGS OTHERWISE:

MEMBER	SPECIES	GRADE
TYP. U.N.G.:	K.D. SPF	#1#2
HEAVY TIMBER BEAMS:	K.D. D.FIR	#1
SHEATHING FOR SHEAR WALL- EXTERIOR WALL PLYWOOD:	D.FIR	CSA 0121
- NAILS AND SPIKES: TO CSA-B111.
- BOLTS: 16mm [5/8"] DIAMETER TO ASTM A307, COMPLETE WITH NUTS AND WASHERS, UNLESS SHOWN OTHERWISE.
- JOIST HANGERS AND FRAMING HANGERS FOR GENERAL FRAMING MINIMUM 20 Ga STEEL GALVANIZED ZF001 COATING, AND SIMPSON Z MAX AS SHOWN ON DRAWINGS. PURPOSE MADE.
- STEEL PLATE CONNECTORS AND BEARING PLATES: ASTM A36 OR CSA-G40.21 GRADE 300W OR 350W. IN EXTERIOR LOCATIONS PLATES ARE TO BE HOT DIPPED GALVANIZED.
- WOOD PRESERVATIVES SHALL CONFORM TO AND BE APPLIED IN ACCORDANCE WITH CSA-086-M. WOOD PRESERVATION SHALL BE EITHER ALKALINE COPPER QUATERNARY (ACQ) OR COPPER AZOLE (CA). ACQ MAYBE EITHER TYPE ACQ-B (AMMONIACAL) OR TYPE ACQ-D (AMINE). PRESERVATIVES SHALL BE APPLIED TO THE WOOD IN A WATER SOLUTION, TO RETENTION LEVELS RECOMMENDED BY THE MANUFACTURER. SUBMIT PRESERVATIVE SPECIFICATIONS TO THE STRUCTURAL ENGINEER FOR APPROVAL. WOOD PRESERVATIVES TO CONFORM TO REQUIREMENT OF LOCAL AUTHORITY.
- NAILS, BOLTS AND METALS IN CONTACT WITH PRESERVED WOOD PRODUCTS SHALL BE HOT DIPPED GALVANIZED TO STANDARD ASTM A153 WITH A G185 GALVANIZING DESIGNATION THAT MEETS ASTM A653. STAINLESS STEEL CAN ALSO BE USED.
- FLOOR JOIST BRIDGING FOR SAID LUMBER AT A MAXIMUM 1800mm [6'-0"] ON CENTER FOR 38x235 [2x10]. FOR SMALLER JOISTS PROVIDE BRIDGING @ MID SPAN.
- BRACING AT BEARING POINTS:

JOIST: PROVIDE TRIMMERS, X-BRACING, OR SOLID BLOCKING.

BOTTOM CHORD BEARING TRUSSES: PROVIDE X-BRACING OR SOLID BLOCKING BETWEEN TRUSSES. IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- STUD BEARING WALLS TO HAVE A CONTINUOUS DOUBLE TOP PLATE, LAPPED WITH INTERSECTING PLATES AT WALL INTERSECTIONS. LAP PLATES MINIMUM 1200mm [4'-0"] AT SPLICE POINTS.
- AT EXTERIOR FOUNDATIONS AND CONCRETE SLAB LOCATIONS PROVIDE CAST IN PLACE 16mm [5/8"] DIAMETER x 250mm [10"] LONG ANCHOR BOLTS AT 1200mm [4'-0"] ON CENTER UNLESS NOTED OTHERWISE. FOR INTERIOR BEARING, PARTITIONS AND PARTY WALLS, WEDGE ANCHORS OR ADHESIVE ANCHORS MAY BE USED. REFER TO SHEARWALL SCHEDULE FOR EXTRA REQUIREMENTS.
- BEAMS AND LINTELS: REFER TO STRUCTURAL PLANS.
- FINGER JOINTED STUDS ARE NOT ACCEPTABLE.

PREFABRICATED GANG NAIL TYPE WOOD TRUSSES

- TRUSSES ARE TO BE DESIGNED FOR SUPERIMPOSED LOADS AS SHOWN ON THE DRAWINGS, BY THE COMPONENT DESIGN METHODS, AND FOR LSD STRESSES REQUIRED BY PART 4 OF THE BRITISH COLUMBIA BUILDING CODE AND CSA 086.1. ROOF TRUSSES ARE TO BE DESIGNED FOR SNOW ACCUMULATIONS IN ACCORDANCE WITH THE SUPPLEMENT TO THE NATIONAL BUILDING CODE. SUBMIT DESIGN CRITERIA AND RECEIVE APPROVAL FROM THE ENGINEER OF RECORD.
- TRUSSES ARE TO BE MANUFACTURED BY A MEMBER OF THE WESTERN WOOD TRUSS ASSOCIATION, WHICH IS TO PROVIDE LAYOUT & SHOP DRAWINGS SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. THE TRUSS DESIGN ENGINEER SHALL SUBMIT A SCHEDULE FOR THE FINAL COMPLETED TRUSS INSTALLATION. SUBMIT 4 SETS OF SHOP DRAWINGS OR DIGITAL SHOP DRAWINGS TO THE ENGINEER OF RECORD FOR REVIEW BEFORE FABRICATION.
- TRUSSES ARE TO BE ERECTED IN ACCORDANCE WITH THE TRUSS MANUFACTURER'S INSTRUCTIONS AND THE WORKERS' COMPENSATION BOARD REQUIREMENTS.
- FABRICATED TRUSS PROFILES ARE TO SATISFY THE STRUCTURAL AS WELL AS THE ARCHITECTURAL REQUIREMENTS. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ROOF SLOPES, CEILING, GUTTERS, DUCT WORK, ETC.
- DESIGN ALL TRUSS TO GIRDER TRUSS CONNECTIONS AND PROVIDE FOR, AND SHOW, CONNECTION OF OTHER BEAM AND PURLIN CONNECTIONS TO TRUSSES. SHOP DRAWINGS TO INDICATE POSITION OF HANGERS AND CONNECTORS, AND TRUSS MANUFACTURER IS TO PROVIDE COMPLETE SHOP DRAWINGS FOR ENGINEERED HANGERS. TRUSS MANUFACTURER IS TO INDICATE AND DETAIL ALL WEB AND CHORD BRACING ON LAYOUT DRAWINGS AS WELL AS LATERAL BRACING REQUIRED AT BEARING POINTS.
- WHERE TRUSSES BEAR ON WALLS, FASTEN TO SILL PLATE AT EACH END WITH NOT LESS THAN 1-18 GA GALVANIZED ANCHOR. WHERE TRUSSES FRAME ONTO GIRDER TRUSS, FASTEN WITH ENGINEERED TRUSS HANGER NOT LESS THAN 18 GA.
- ALL TRUSSES TO BE ERECTED WITH HURRICANE CLIPS. TOE NAILS WILL NOT BE ACCEPTED. SIMPSON STRONG-TIE H14 HURRICANE CLIP OR APPROVED EQUAL.
- GIRDER TRUSSES ARE SHOWN FOR BIDDING AND CONCEPTUAL INFORMATION. TRUSS MANUFACTURER TO PROVIDE SHOP DRAWINGS SHOWING GIRDER TRUSS LOCATIONS AND LOADS TO ENGINEER OF RECORD. COLUMN AND FRAMING CONFIGURATION TO BE FINALIZED UPON APPROVAL OF TRUSS SHOP DRAWINGS.



JOB No. 131-19104-21

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1	ISSUED FOR TENDER	2017-08-29
0	ISSUED FOR PERMIT	2017-07-17

Revision/ Révision	Description/ Description	Date/ Date
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Client/Client
REAL PROPERTY, SAFETY AND SECURITY FISHERIES AND OCEANS,
 VANCOUVER, B.C.
 200-401 BURRARD ST.

Project title/Titre du projet
4315 MARINE DRIVE POWELL RIVER, B.C.

POWELL RIVER SAR STATION

Consultant Signature Only
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Designed by/Concepté par
 GARY LIANG

Drawn by/Dessiné par
 ROD.MAR/2017.07.17

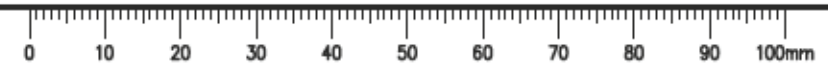
PWGSC Project Manager/Administrateur de Projets TPSGC
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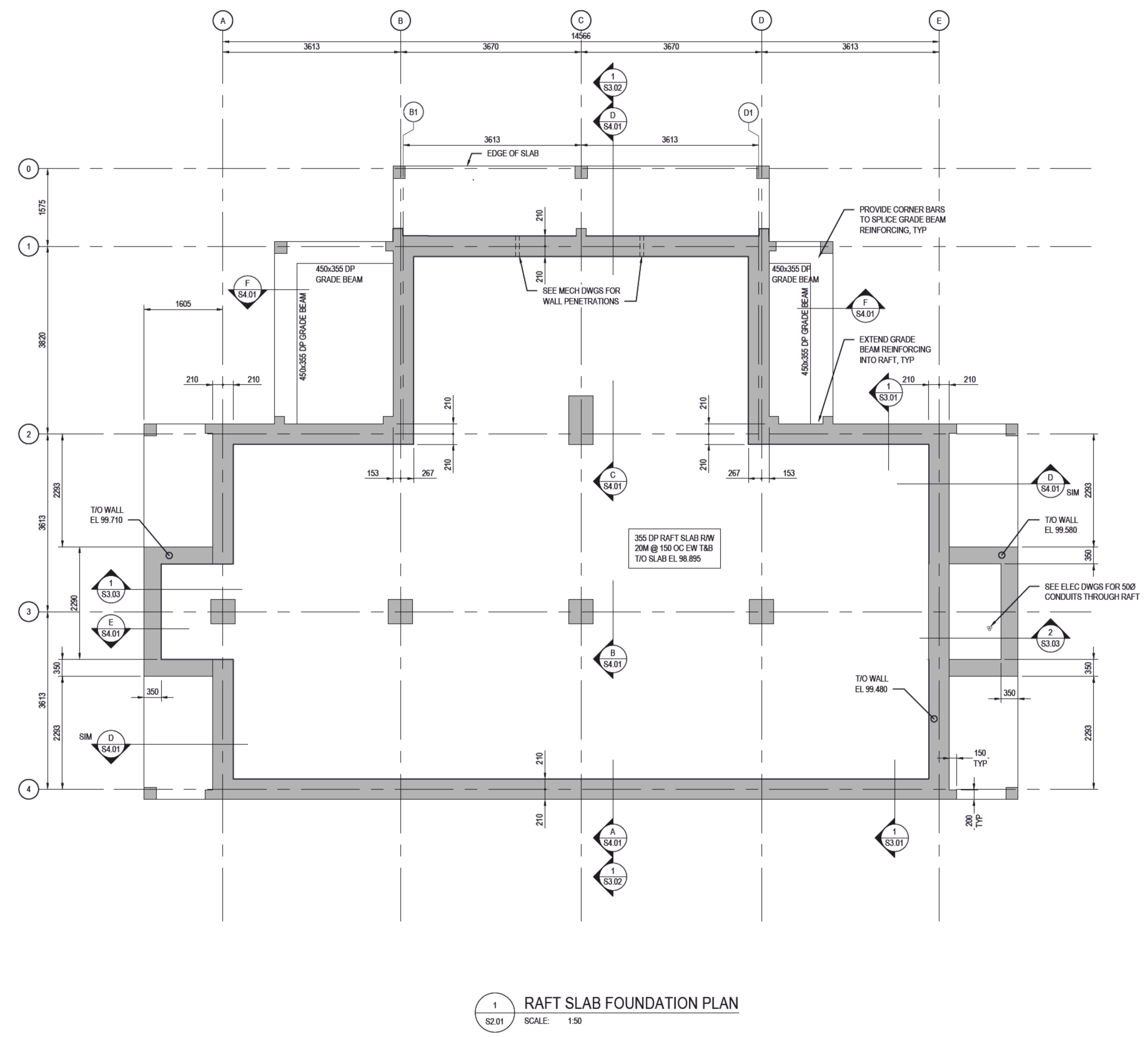
Regional Manager, Architectural and Engineering Services
 Gestionnaire régionale, Services d'architectural et de génie, TPSGC
 PREETIPAL PAUL

Drawing title/Titre du dessin

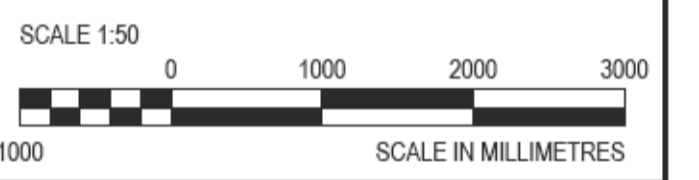
STRUCTURAL NOTES

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1 RAFT SLAB FOUNDATION PLAN
S2.01 SCALE: 1:50



Revision/	Description/Description	Date/Date
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1	ISSUED FOR TENDER	2017-06-29
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Client/Client

**REAL PROPERTY,
SAFETY AND SECURITY
FISHERIES AND OCEANS,**

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Project title/Titre du projet
**4315 MARINE DRIVE
POWELL RIVER, B.C.**

**POWELL RIVER
SAR STATION**

Consultant Signature Only

Designed by/Concept par
GARY LIANG

Drawn by/Dessiné par
ROD.MAR/2017.07.17

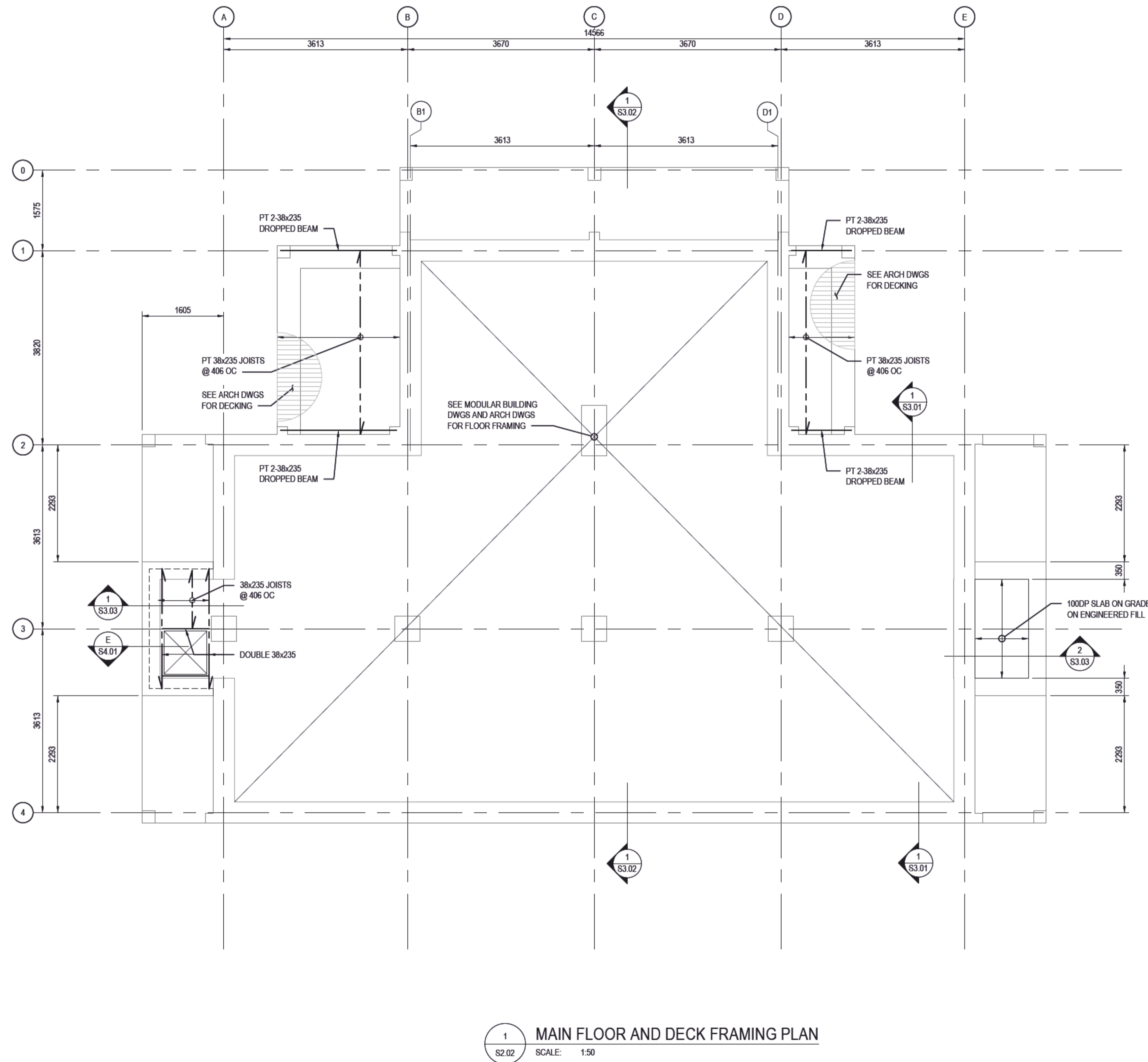
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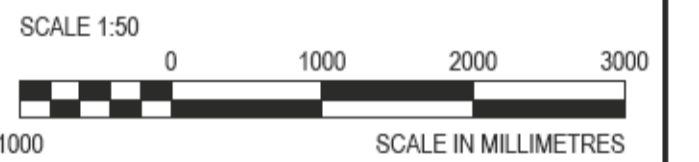
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RAFT SLAB FOUNDATION PLAN

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1 MAIN FLOOR AND DECK FRAMING PLAN
S2.02 SCALE: 1:50



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1	ISSUED FOR TENDER	2017-06-29
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Client/Client
**REAL PROPERTY,
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200-401 BURRARD ST.

Project title/Titre du projet
4315 MARINE DRIVE
POWELL RIVER, B.C.

**POWELL RIVER
SAR STATION**

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GARY LIANG

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ROD.MAR/2017.07.17

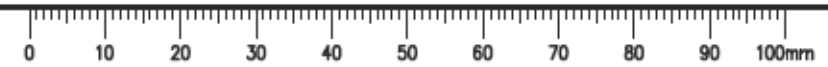
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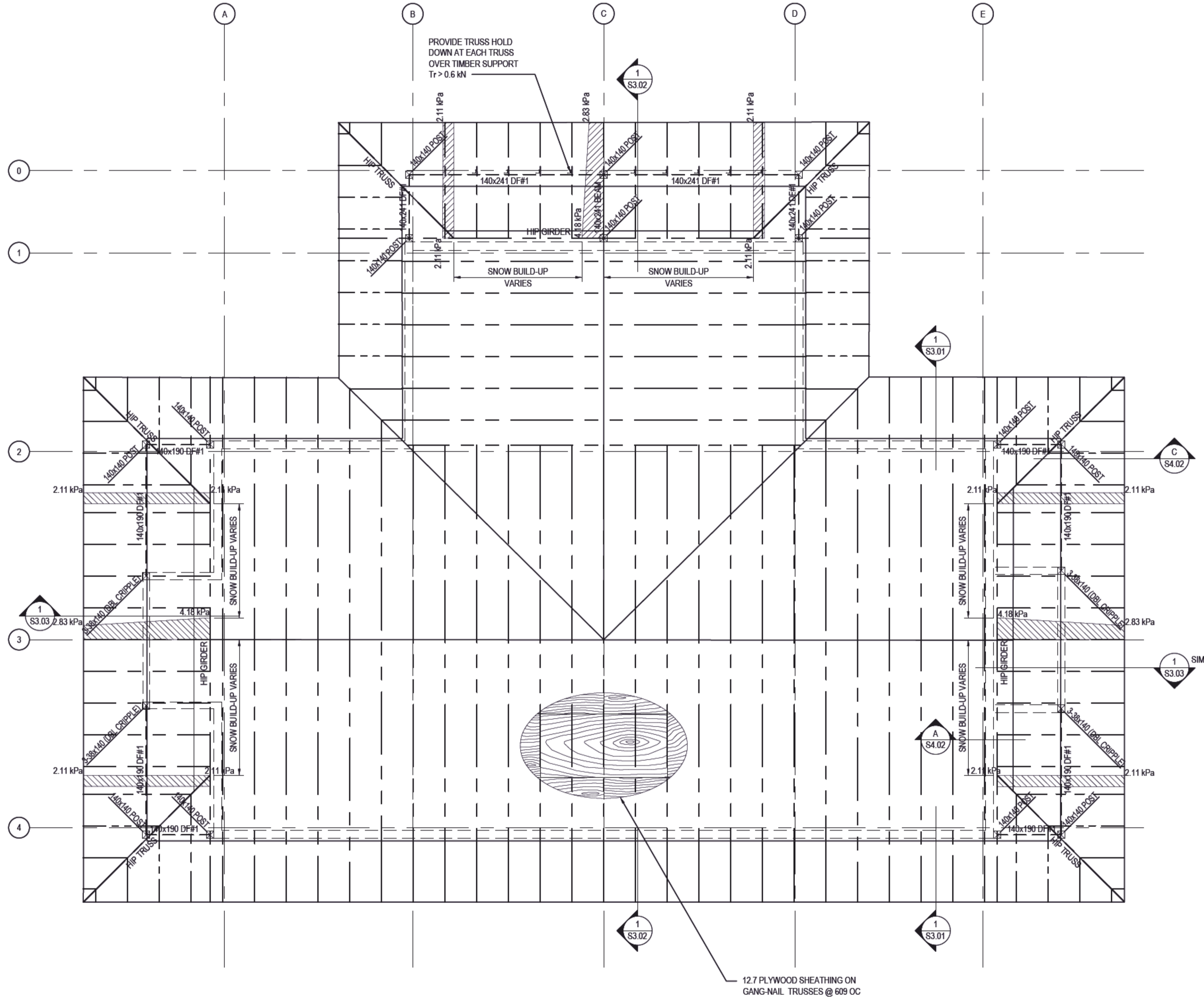
Regional Manager, Architectural and Engineering Services
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PREETIPAL PAUL

Drawing title/Titre du dessin

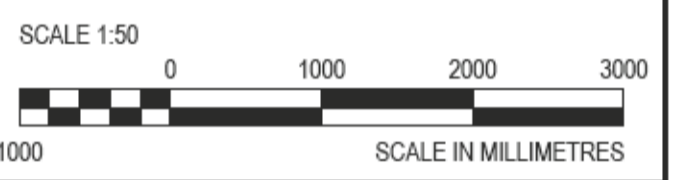
**MAIN FLOOR AND DECK
FRAMING PLAN**

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1 ROOF FRAMING PLAN
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Revision/	Description/Description	Date/Date
5		
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1	ISSUED FOR TENDER	2017-05-29
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Client/Client

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200-401 BURRARD ST.

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4315 MARINE DRIVE
POWELL RIVER, B.C.

POWELL RIVER SAR STATION

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GARY LIANG

Drawn by/Dessiné par
ROD.MAR/2017.07.17

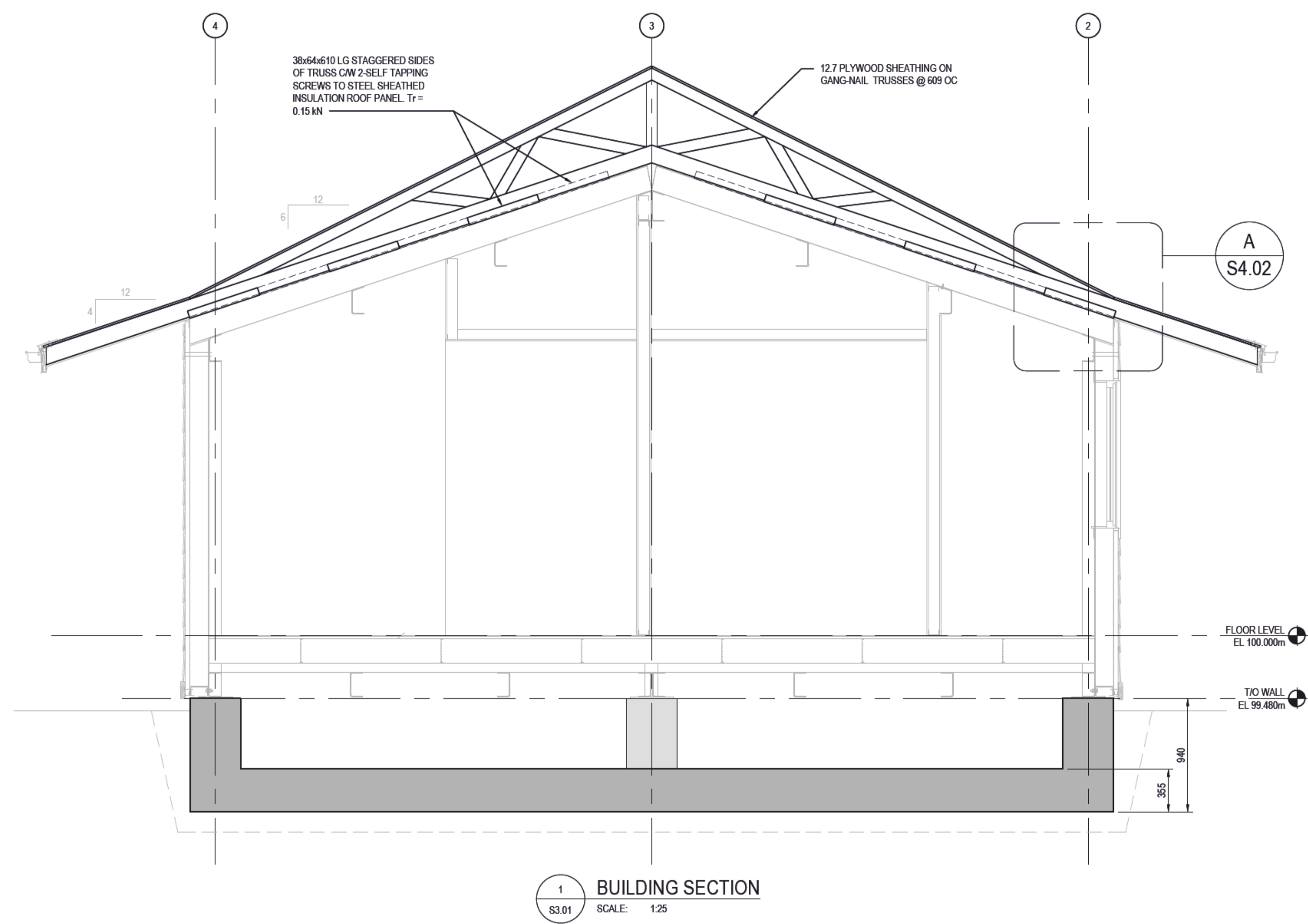
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Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL

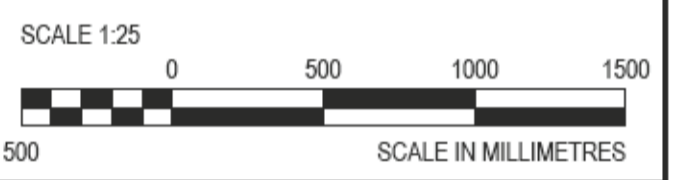
Drawing title/Titre du dessin

ROOF FRAMING PLAN

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1 BUILDING SECTION
S3.01 SCALE: 1/25



Revision/	Description/Description	Date/Date
5		
4		
3		
2		
1	ISSUED FOR TENDER	2017-06-29
0	ISSUED FOR PERMIT	2017-07-17

Client/Client
REAL PROPERTY, SAFETY AND SECURITY FISHERIES AND OCEANS,
 VANCOUVER, B.C.
 200-401 BURRARD ST.

Project title/Titre du projet
 4315 MARINE DRIVE
 POWELL RIVER, B.C.

POWELL RIVER SAR STATION

Consultant Signature Only
 -

Designed by/Concept par
 GARY LIANG

Drawn by/Dessiné par
 ROD.MAR/2017.07.17

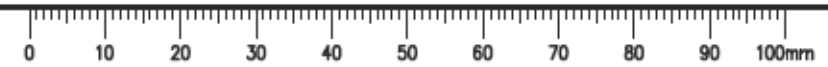
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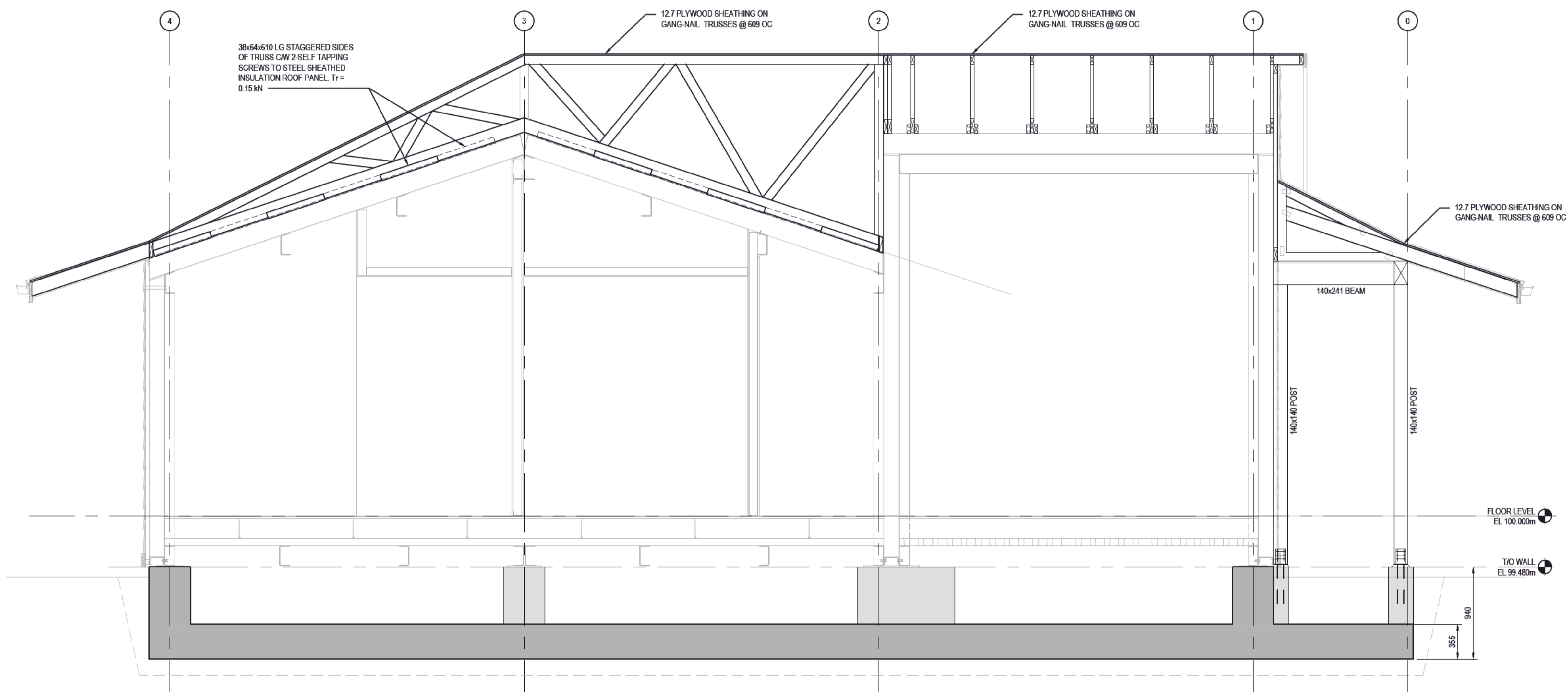
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 Gestionnaire régionale, Services d'architecture et de génie, TPSGC
 PREETIPAL PAUL

Drawing title/Titre du dessin

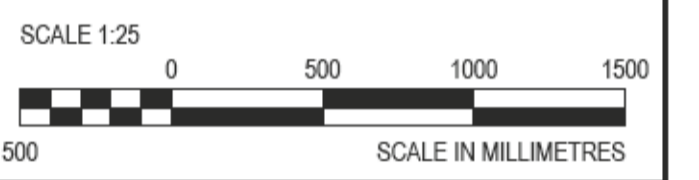
BUILDING SECTIONS

Project No./No. du projet 2016521	Sheet/Feuille S3.01 5 OF 9	Revision no./La Révision no. 1
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1 BUILDING SECTION
S3.02 SCALE: 1:25



Revision/	Description/Description	Date/Date
5		
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2		
1	ISSUED FOR TENDER	2017-06-29
0	ISSUED FOR PERMIT	2017-07-17

Client/Client
REAL PROPERTY, SAFETY AND SECURITY FISHERIES AND OCEANS, VANCOUVER, B.C. 200-401 BURRARD ST.

Project title/Titre du projet
4315 MARINE DRIVE POWELL RIVER, B.C.

POWELL RIVER SAR STATION

Consultant Signature Only

Designed by/Concept par
GARY LIANG

Drawn by/Dessiné par
ROD.MAR/2017.07.17

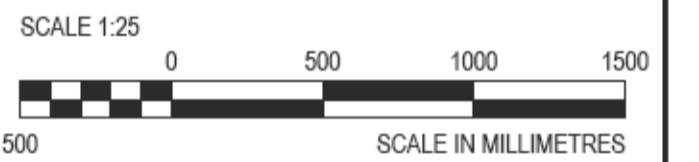
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Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSOC
PREETIPAL PAUL

Drawing title/Titre du dessin

BUILDING SECTIONS

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Revision/	Description/Description	Date/Date
5		
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1	ISSUED FOR TENDER	2017-06-29
0	ISSUED FOR PERMIT	2017-07-17

Client/Client

REAL PROPERTY, SAFETY AND SECURITY FISHERIES AND OCEANS,
VANCOUVER, B.C.
200-401 BURRARD ST.

Project title/Titre du projet
4315 MARINE DRIVE POWELL RIVER, B.C.

POWELL RIVER SAR STATION

Consultant Signature Only

Designed by/Concept par
GARY LIANG

Drawn by/Dessiné par
ROD.MAR/2017.07.17

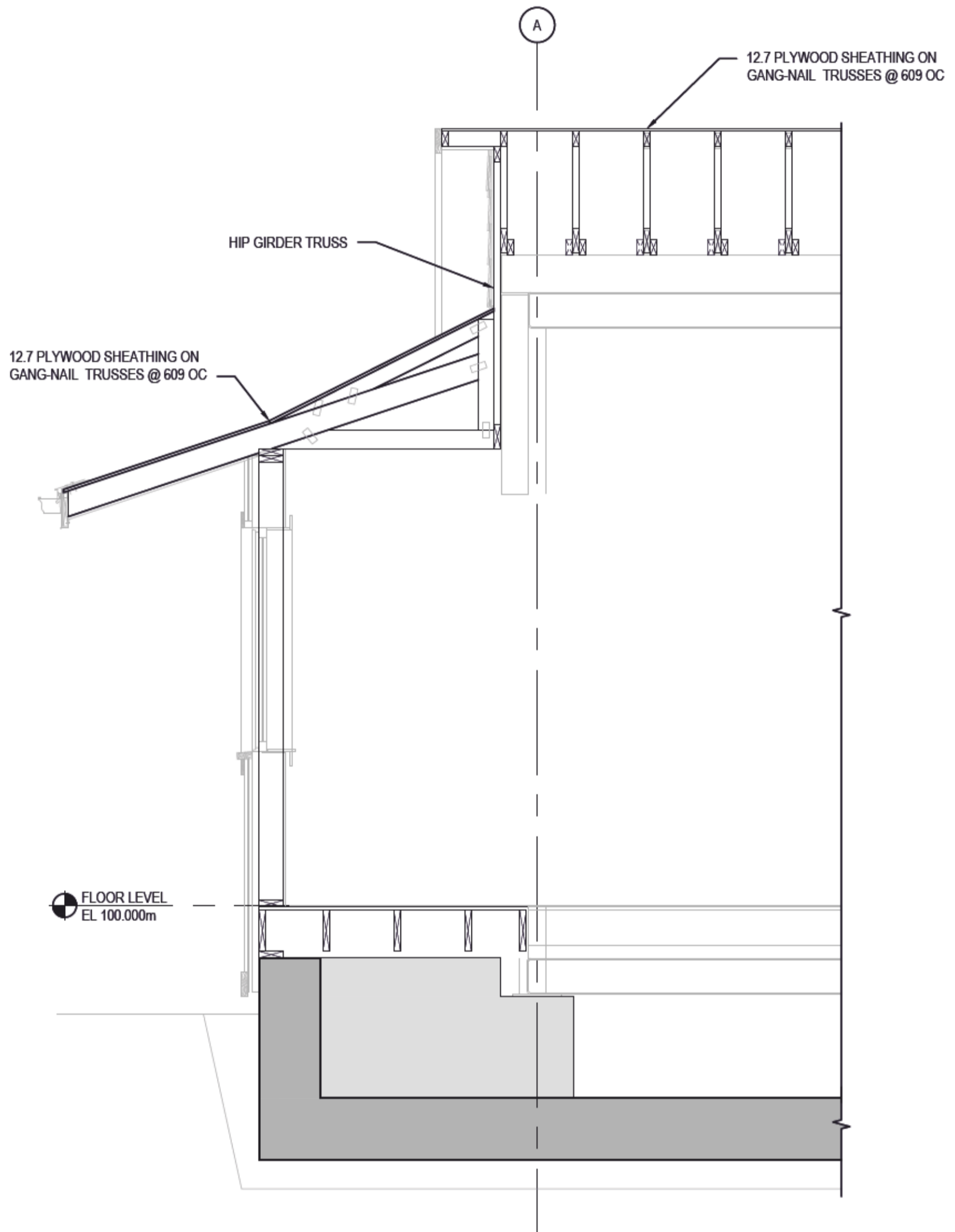
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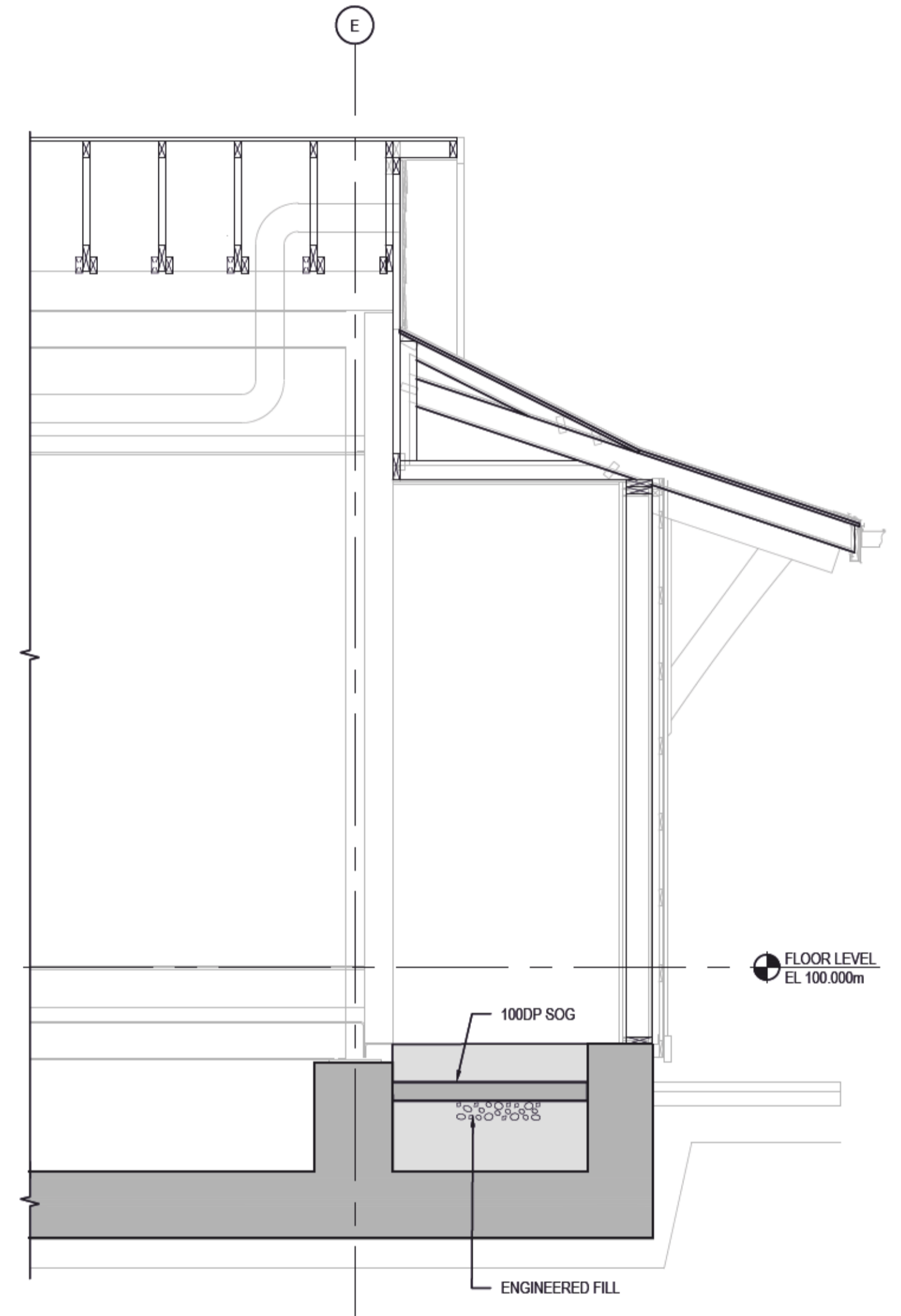
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BUILDING SECTIONS

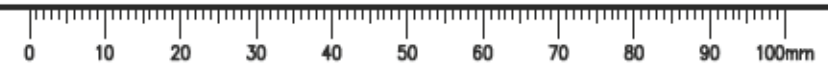
Project No./No. du projet 2016521	Sheet/Feuille S3.03 7 OF 9	Revision no./La Révision no. 1
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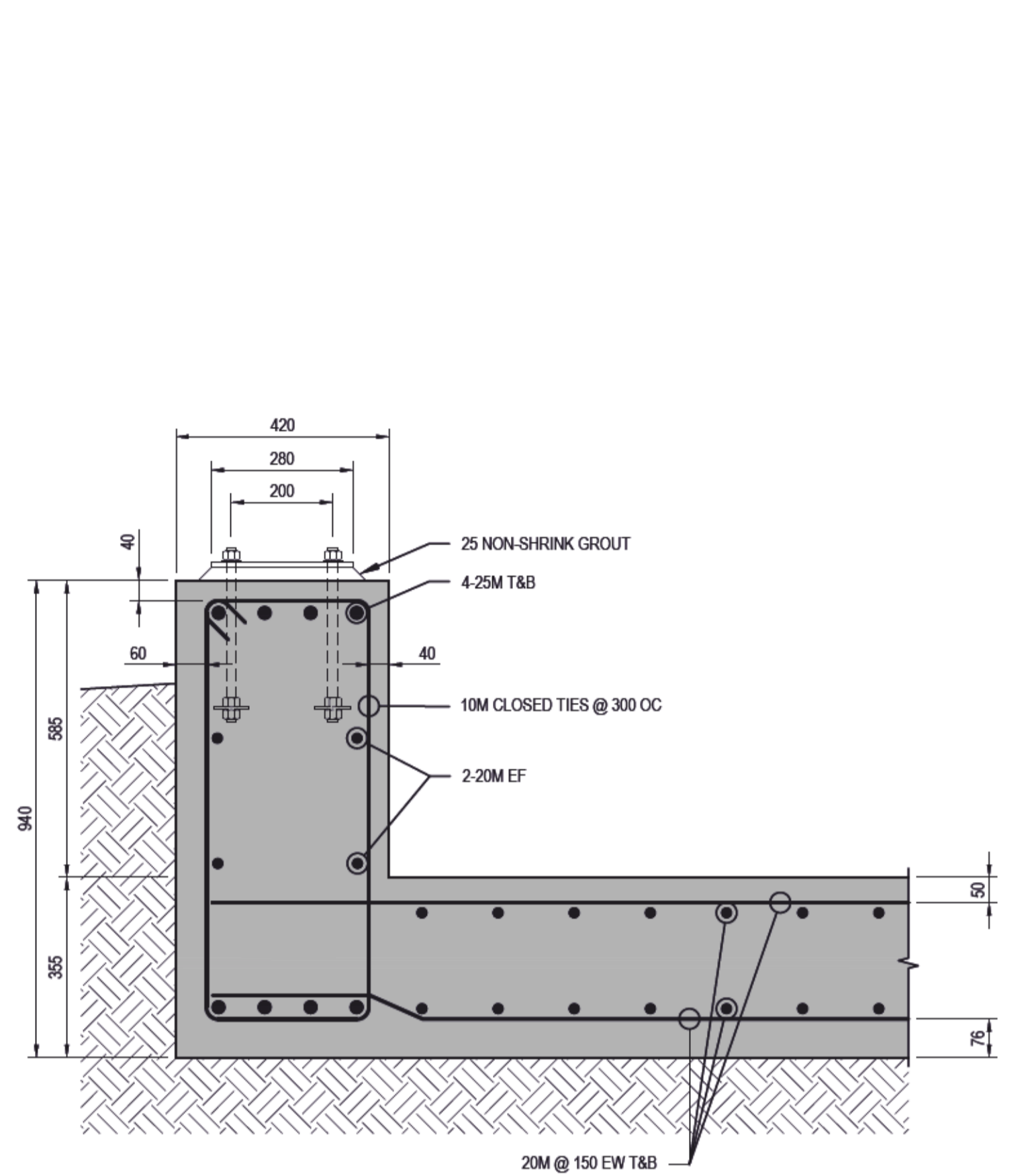


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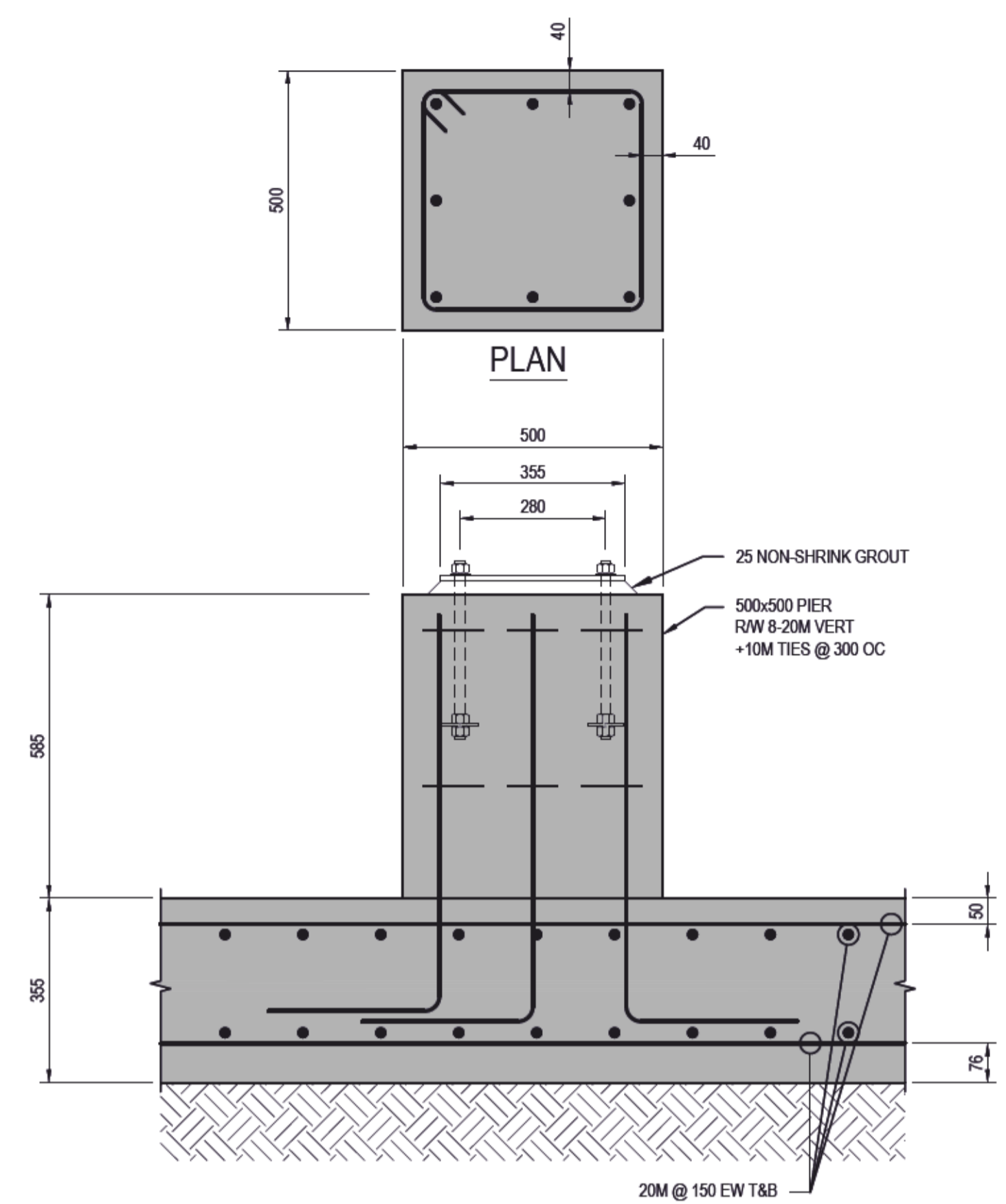


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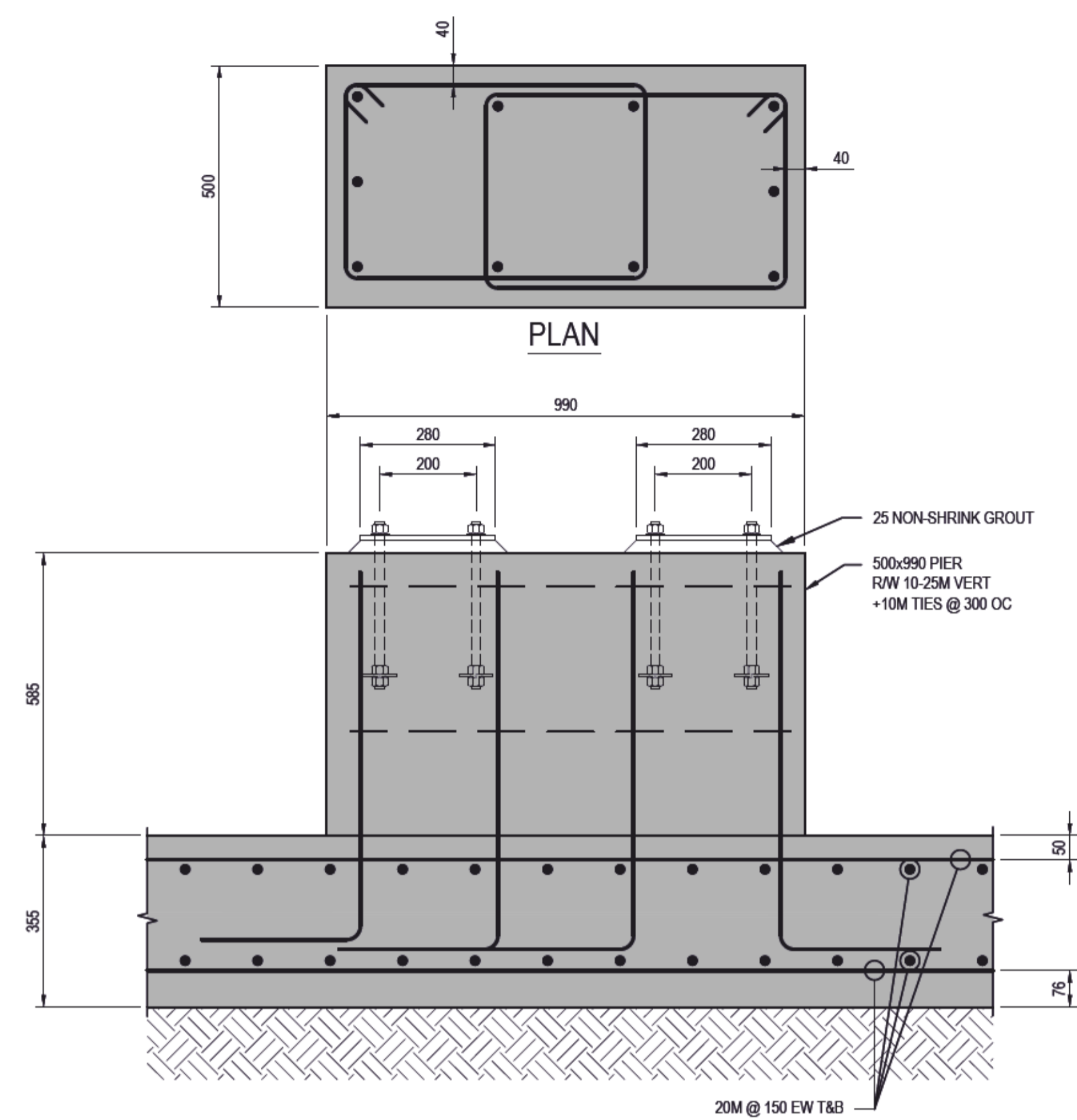




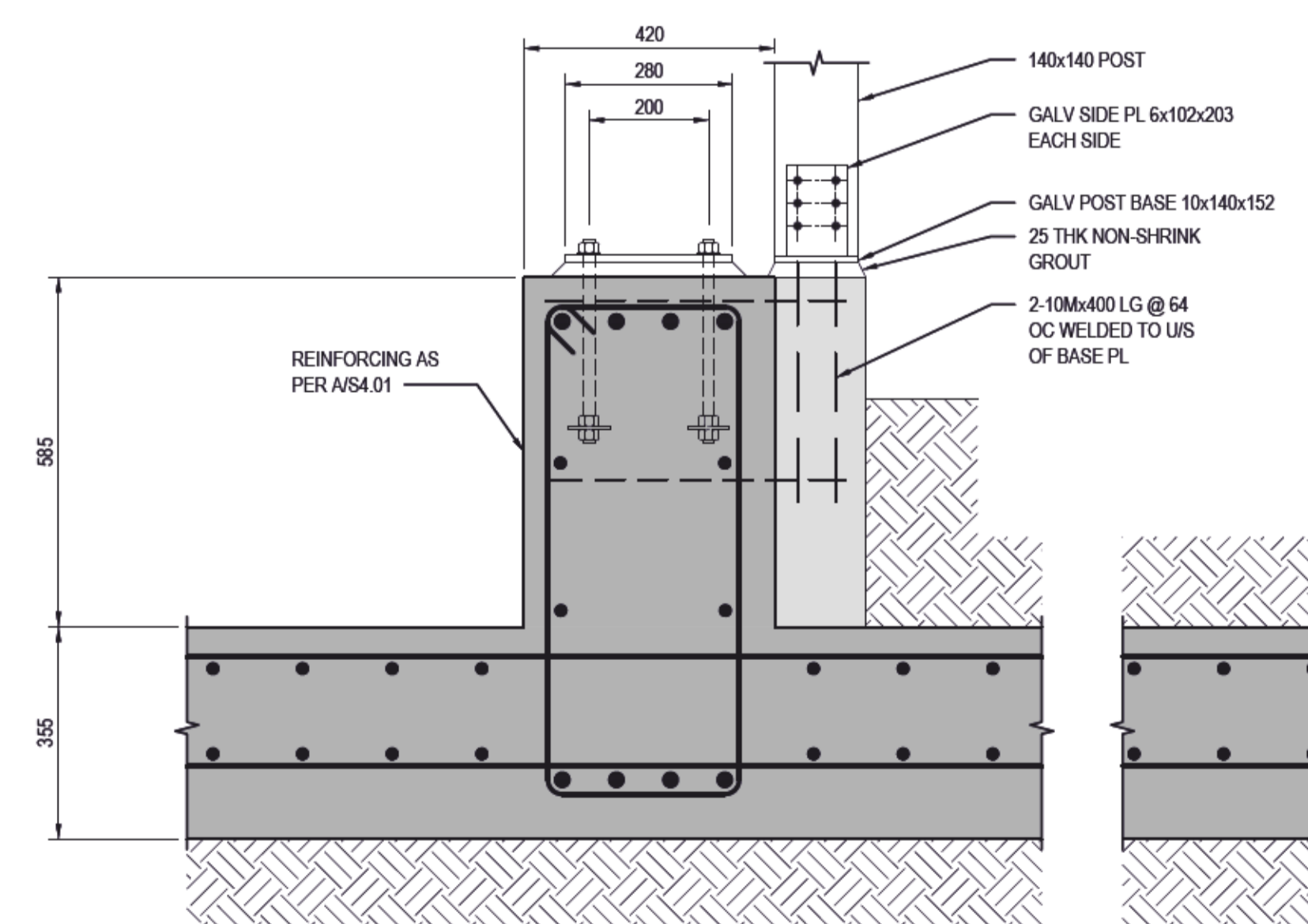
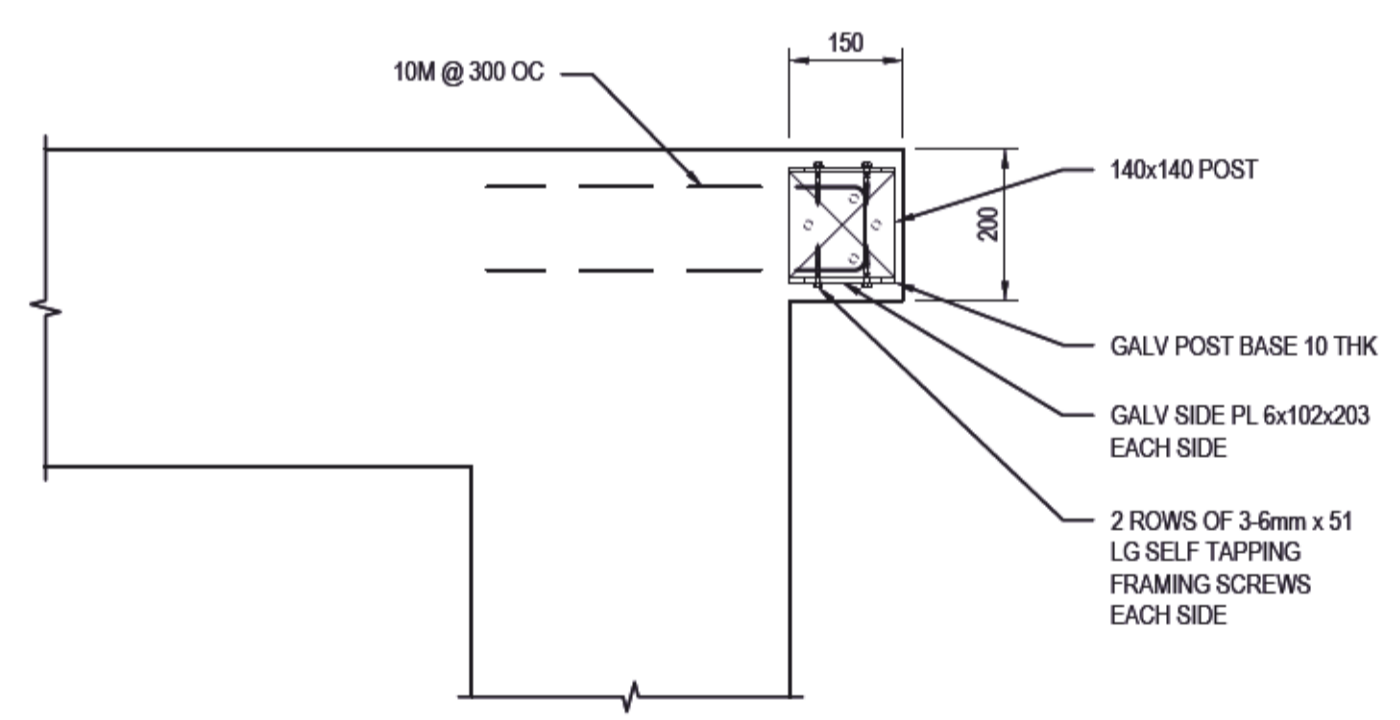
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S4.01 SCALE: 1:10



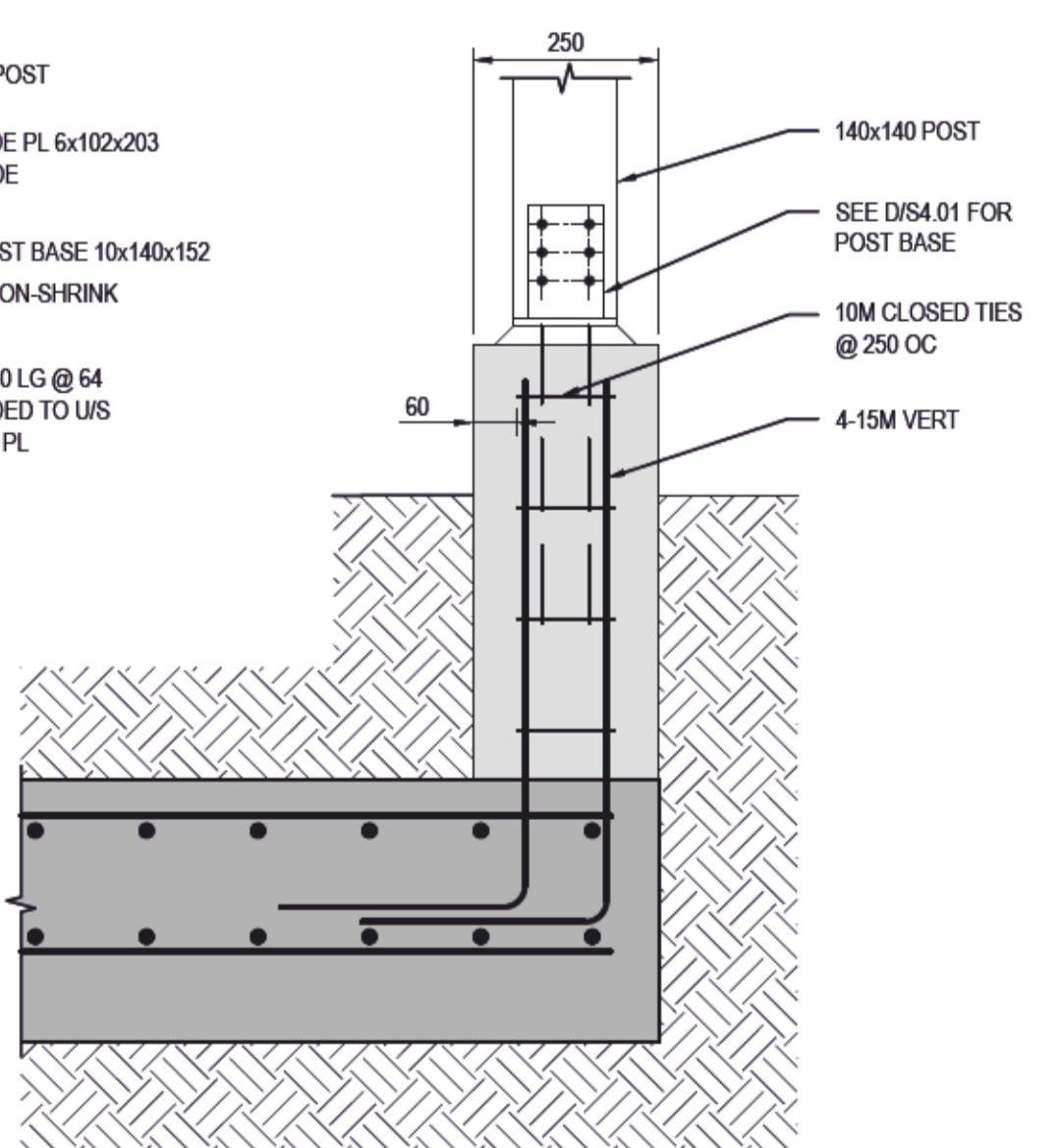
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S4.01 SCALE: 1:10



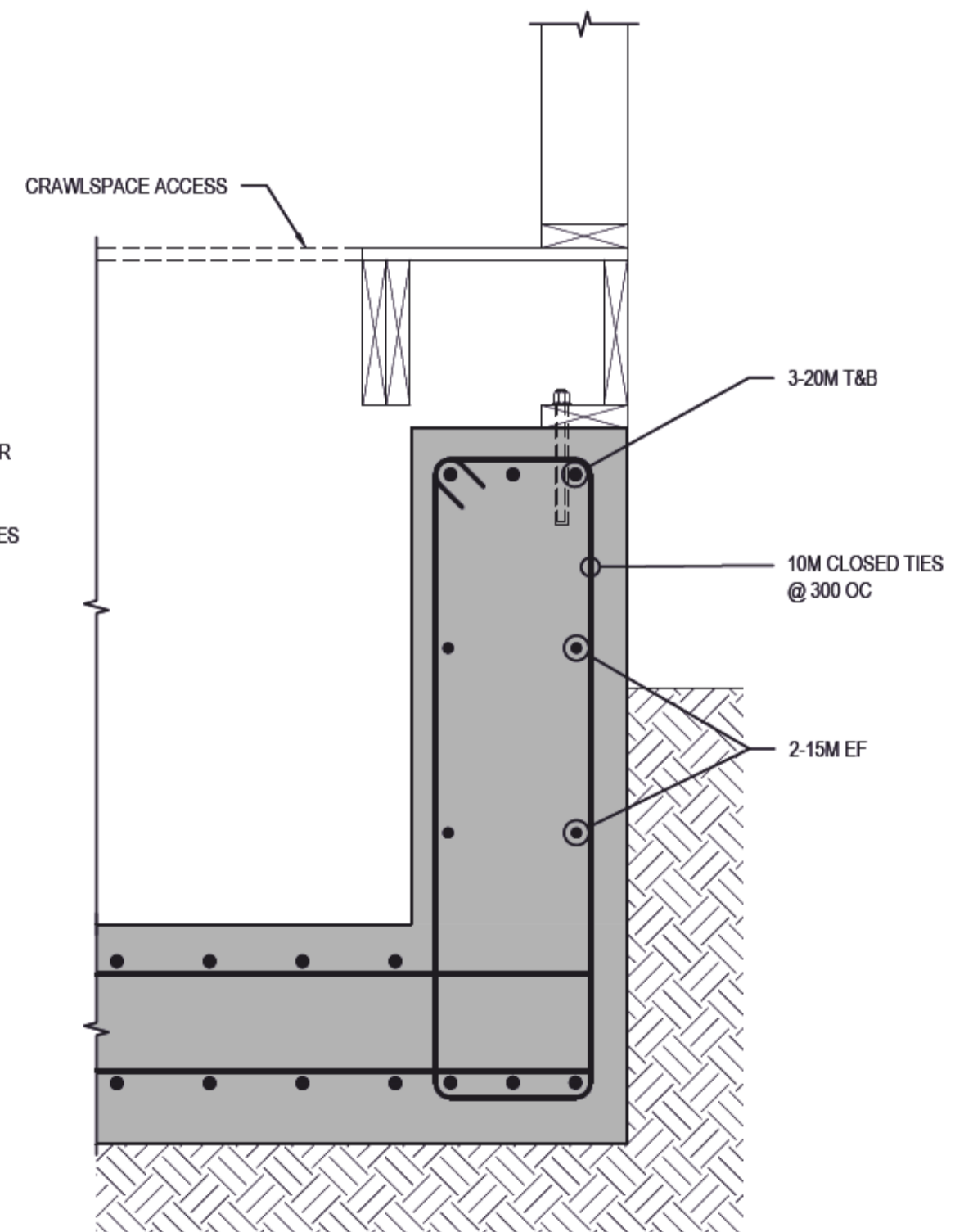
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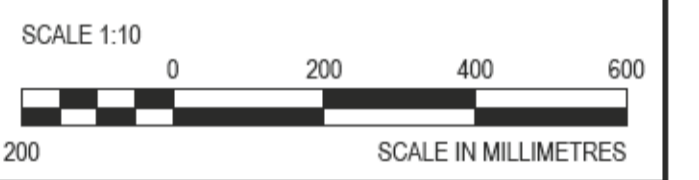
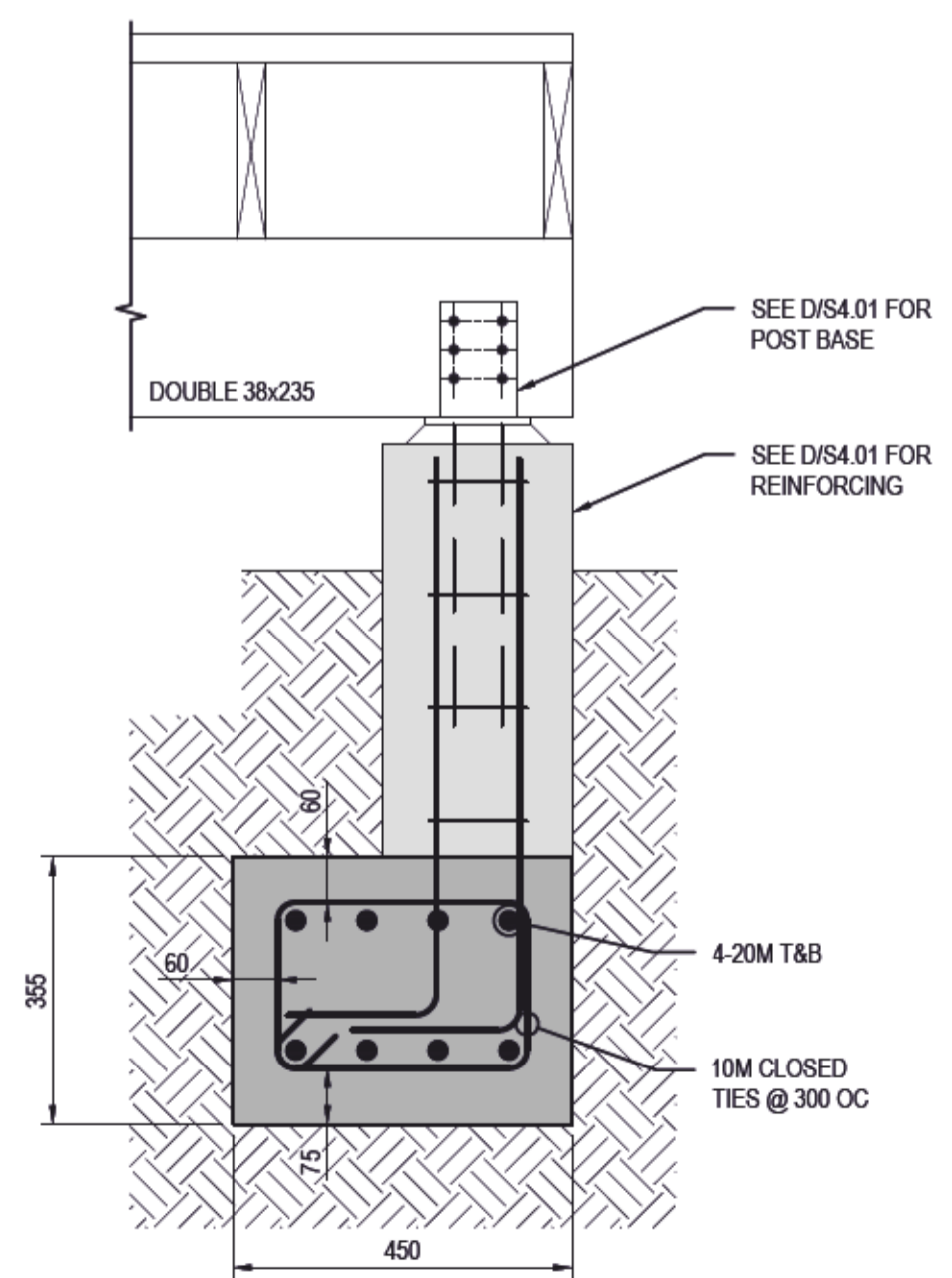
D SECTION
S4.01 SCALE: 1:10



E SECTION
S4.01 SCALE: 1:10



F SECTION
S4.01 SCALE: 1:10



Revision/	Description/Description	Date/Date
5		
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1	ISSUED FOR TENDER	2017-06-29
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Client/Client
REAL PROPERTY, SAFETY AND SECURITY FISHERIES AND OCEANS,
VANCOUVER, B.C.
200-401 BURRARD ST.

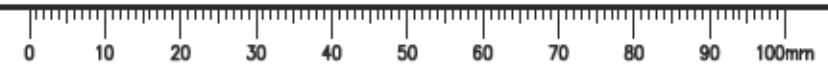
Project title/Titre du projet
4315 MARINE DRIVE POWELL RIVER, B.C.

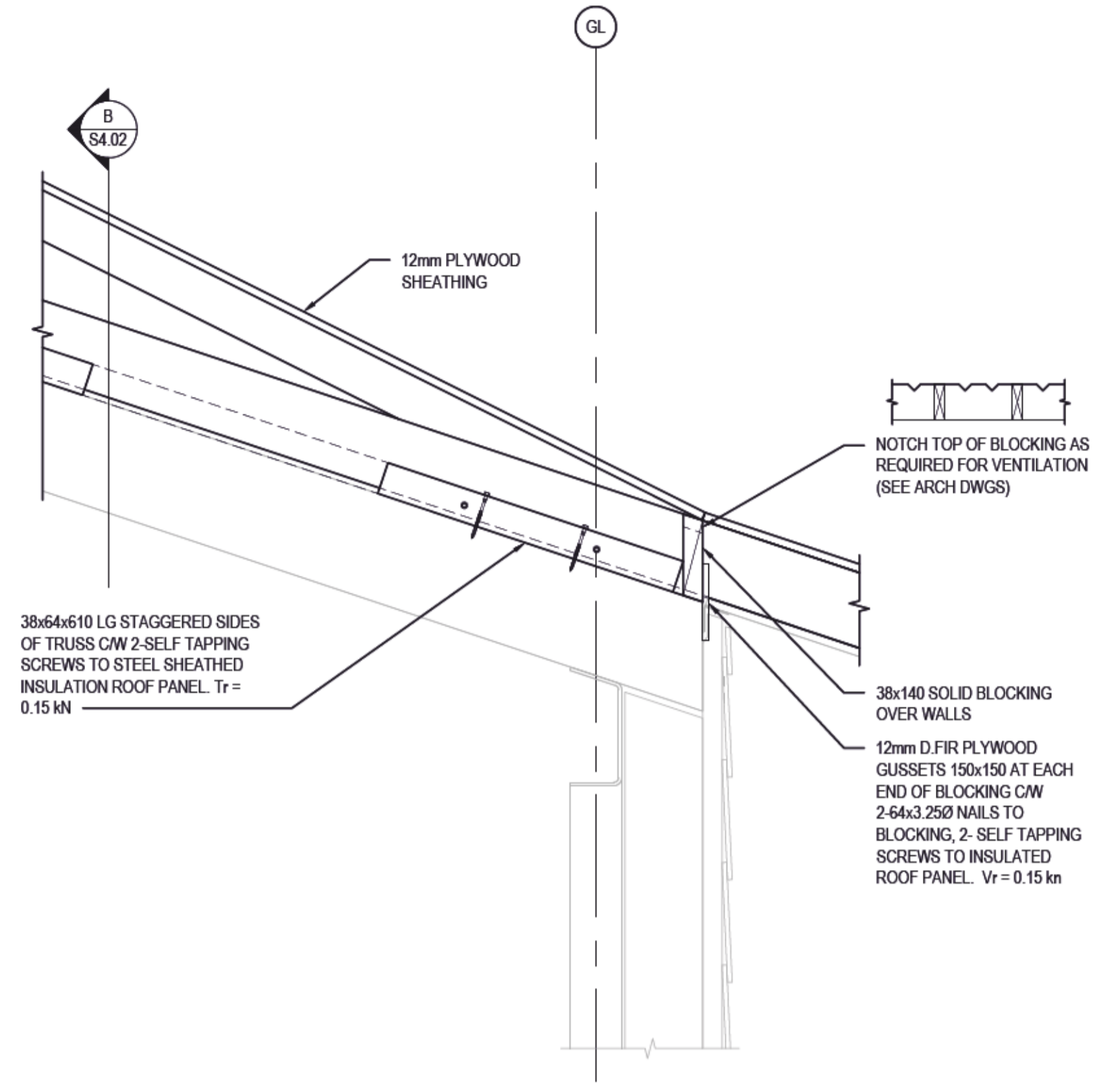
POWELL RIVER SAR STATION

Consultant Signature Only
Designed by/Concept par GARY LIANG
Drawn by/Dessiné par ROD.MAR/2017.07.17
PWGSC Project Manager/Administrateur de Projets TPSGC
Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architectural et de génie, TPSGC PREETIPAL PAUL

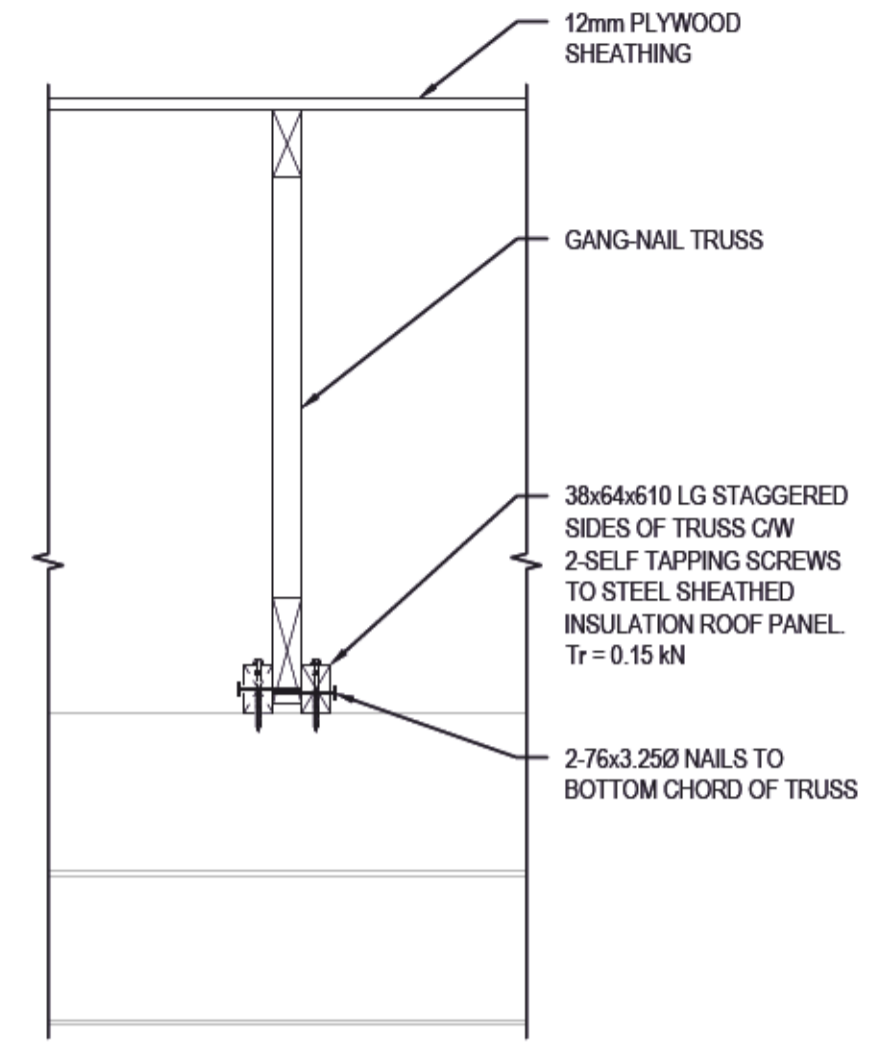
Drawing title/Titre du dessin
DETAILS AND SECTIONS

Project No./No. du projet: 2016521
Sheet/Feuille: S4.01
Revision no./Révision no.: 1
8 OF 9

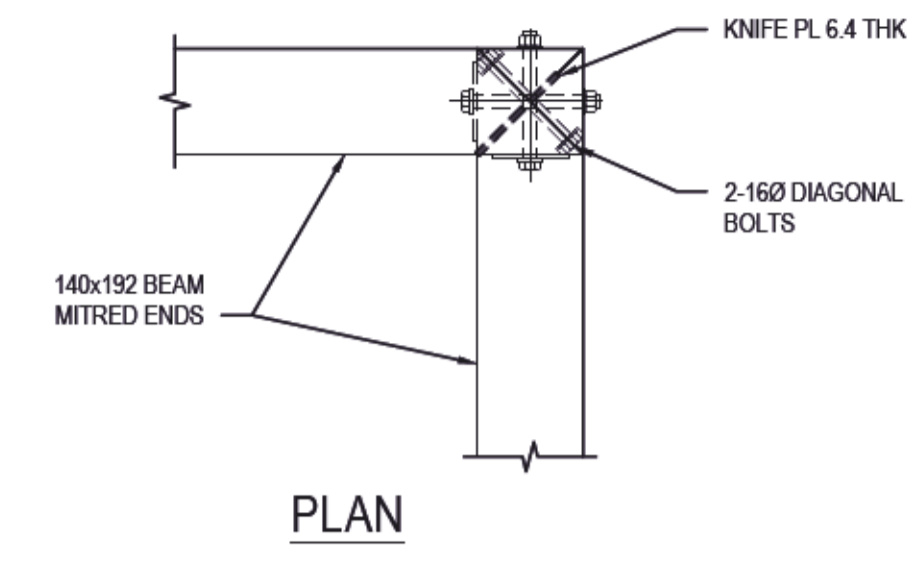




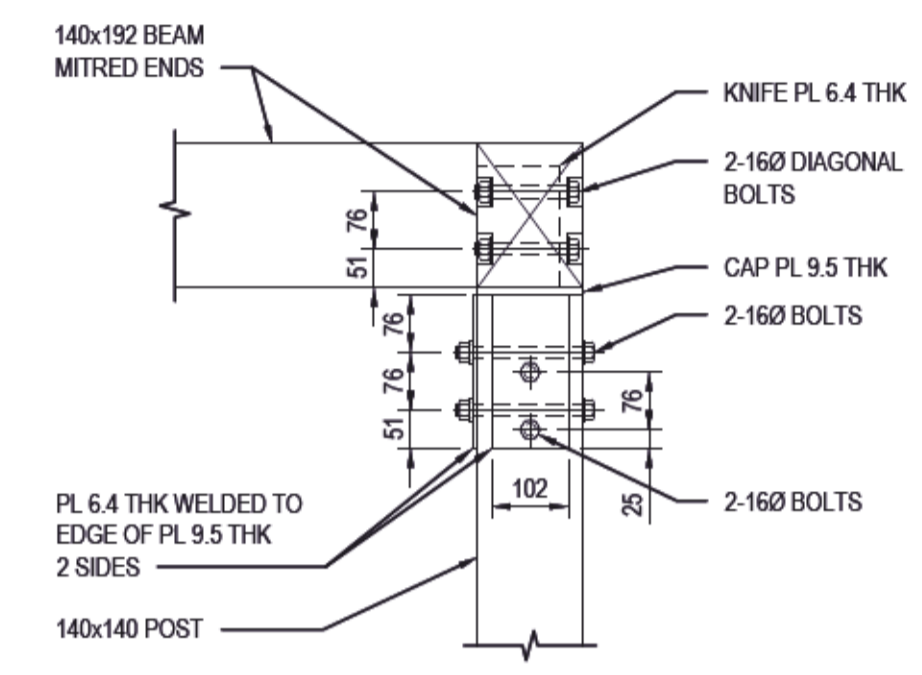
A SECTION
S4.02 SCALE: 1:10



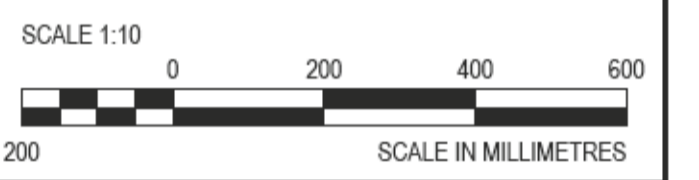
B SECTION
S4.02 SCALE: 1:10



PLAN



C SECTION
S4.02 SCALE: 1:10



Revision/	Description/Description	Date/Date
5		
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1	ISSUED FOR TENDER	2017-06-29
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Client/Client
**REAL PROPERTY,
SAFETY AND SECURITY
FISHERIES AND OCEANS,**
VANCOUVER, B.C.
200-401 BURRARD ST.

Project title/Titre du projet
4315 MARINE DRIVE
POWELL RIVER, B.C.

**POWELL RIVER
SAR STATION**

Consultant Signature Only
-

Designed by/Concept par
GARY LIANG

Drawn by/Dessiné par
ROD.MAR/2017.07.17

PWGSC Project Manager/Administrateur de Projets TPSGC
-

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin
DETAILS AND SECTIONS

Project No./No. du projet 2016521	Sheet/Feuille S4.02 9 OF 9	Revision no./ La Révision no. 1
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