



Moore Wilson Architects
531 Herald Street
Victoria, British Columbia
V8W 1S5
p. 250 384 2131

POST TENDER ADDENDUM No. 02

Smithers Regional Airport
Terminal Upgrade and Expansion
Smithers, BC Contract 2017-11
July 21th, 2017 MW #16-181

The following addendum supplements and/or supersedes information contained in drawings and specifications issued for the project to the extent referenced. The cost of all contained herein is to be included in the contract sum. This Addendum forms part of the Tender Documents and is subject to all of the conditions set out in the contract conditions. All bidders are to acknowledge receipt and acceptance of this addendum by indicating Addendum number and date on the Tender Form provided.

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END OF Post Tender Addendum No. 02

STRUCTURAL POST TENDER ADDENDUM NO. 1

Project Name: Smithers Regional Airport, Terminal Upgrade and Expansion
Project Address: Smithers, BC
Prepared by: Kyle Nagtegaal
Architect: Moore Wilson Architects
File No: 16-107
Date: July 19, 2017

The following addendum supersedes information contained in drawings and specifications issued for the project to the extent referenced. This addendum forms part of the tender documents and is subject to all of the conditions set out in the contract conditions.

Revisions to Structural Drawings as Issued for Tender dated 2017/04/11:

1. DRAWINGS:

- 1. SHEET S2.2 – LEVEL 1 FRAMING PLAN (VPG ITEM #8 AND ITEM #16)**
 - i. Revise** all PSL beams to Glulam Beams
 - ii. Delete** Section 6/S4.5

- 2. SHEET S2.2-1– LEVEL 1 FLOOR PLAN (VPG ITEM #SP2-2)**
 - i. Add** Level 1 Plan (1/S2.2-1)
 - ii. Add** Detail @ Door (2/S2.2-1)
 - iii. Add** Beam to Post Connection (3/S2.2-1)

- 3. SHEET S2.3 – LOW ROOF FRAMING PLAN (VPG ITEM #8, ITEM #16, AND ITEM #32)**
 - i. Revise** all PSL beams to Glulam beams
 - ii. Revise** Glulam beam size at Grid A and Grid B
 - iii. Delete** all SC2 columns and HSS frames for glazing support
 - iv. Delete** AHU-2
 - v. Add** AHU-3
 - vi. Revise** NLT Roof and Canopy panels can be used as an alternative for CLT Roof and Canopy panels – submit alternative design to Kerkhoff Engineering for approval

4. SHEET S2.4 – HIGH ROOF FRAMING PLAN (VPG ITEM #8 AND ITEM #16)

- i. Revise** all PSL beams to Glulam Beams
- ii. Revise** all PSL columns to Glulam Beams
- iii. Revise** Glulam column size
- iv. Revise** Glulam roof beam size and length
- v. Revise** NLT Roof panels can be used as an alternative for CLT Roof panels – submit alternative design to Kerkhoff Engineering for approval

5. SHEET S3.1 – BUILDING SECTIONS (VPG ITEM #8 AND ITEM #16)

- i. Revise** all PSL beams to Glulam Beams
- ii. Revise** all PSL columns to Glulam Beams
- iii. Revise** Glulam column size
- iv. Revise** Glulam roof beam size and length
- v. Revise** NLT Roof and Canopy panels can be used as an alternative for CLT Roof and Canopy panels – submit alternative design to Kerkhoff Engineering for approval
- vi. Delete** all SC2 columns and HSS frames for glazing support
- vii. Delete** Section 6/S4.5

6. SHEET S3.2 – BUILDING SECTIONS (VPG ITEM #8)

- i. Revise** NLT Roof and Canopy panels can be used as an alternative for CLT Roof and Canopy panels – submit alternative design to Kerkhoff Engineering for approval

7. SHEET S3.3 – BUILDING SECTIONS (VPG ITEM #8 AND ITEM #16)

- i. Revise** all PSL beams to Glulam Beams
- ii. Revise** all PSL columns to Glulam Beams
- iii. Revise** Glulam column size
- iv. Revise** Glulam roof beam size and length
- v. Revise** NLT Roof and Canopy panels can be used as an alternative for CLT Roof and Canopy panels – submit alternative design to Kerkhoff Engineering for approval
- vi. Delete** all SC2 columns and HSS frames for glazing support
- vii. Delete** Section 6/S4.5

8. SHEET S4.1 – SECTIONS AND DETAILS (VPG ITEM #8)

- i. Revise** Post Saddle Detail (8/S4.1)

9. SHEET S4.3 – SECTIONS AND DETAILS (VPG ITEM #8)

- i. Revise** Glulam Connection above Column (7/S4.3)
- ii. Revise** Glulam column size (14/S4.3 / 15/S4.3 / 16/S4.3)
- iii. Revise** Glulam roof beam size and length (7/S4.3 / 14/S4.3 / 15/S4.3 / 16/S4.3)

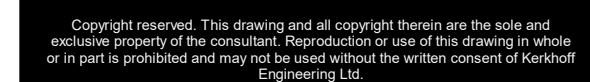
10. SHEET S4.5 – SECTIONS AND DETAILS (VPG ITEM #8 AND ITEM #16)

- i. Revise** Roof Panel to Glulam Beam Connection (5/S4.5)
- ii. Delete** HSS Column to Conc. Wall Base Plate Detail (6/S4.5)

END OF STRUCTURAL POST TENDER ADDENDUM NO. 1



Report prepared by: Kyle Nagtegaal



REV.

DATE

DESCRIPTION

1

2017/04/25

ADDENDUM No. 1

2

2017/07/19

POST TENDER ADDENDUM No. 1

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kerkhoff

Engineering Ltd.

#101 - 5622 VEDDER RD,
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6421 AIRPORT ROAD, SMITHERS BC

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SCALE

AS NOTED

DATE

2017/07/19

FILE NAME

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DRAWING TITLE

LEVEL 1 FLOOR PLAN

PROJECT

16-107

SHEET

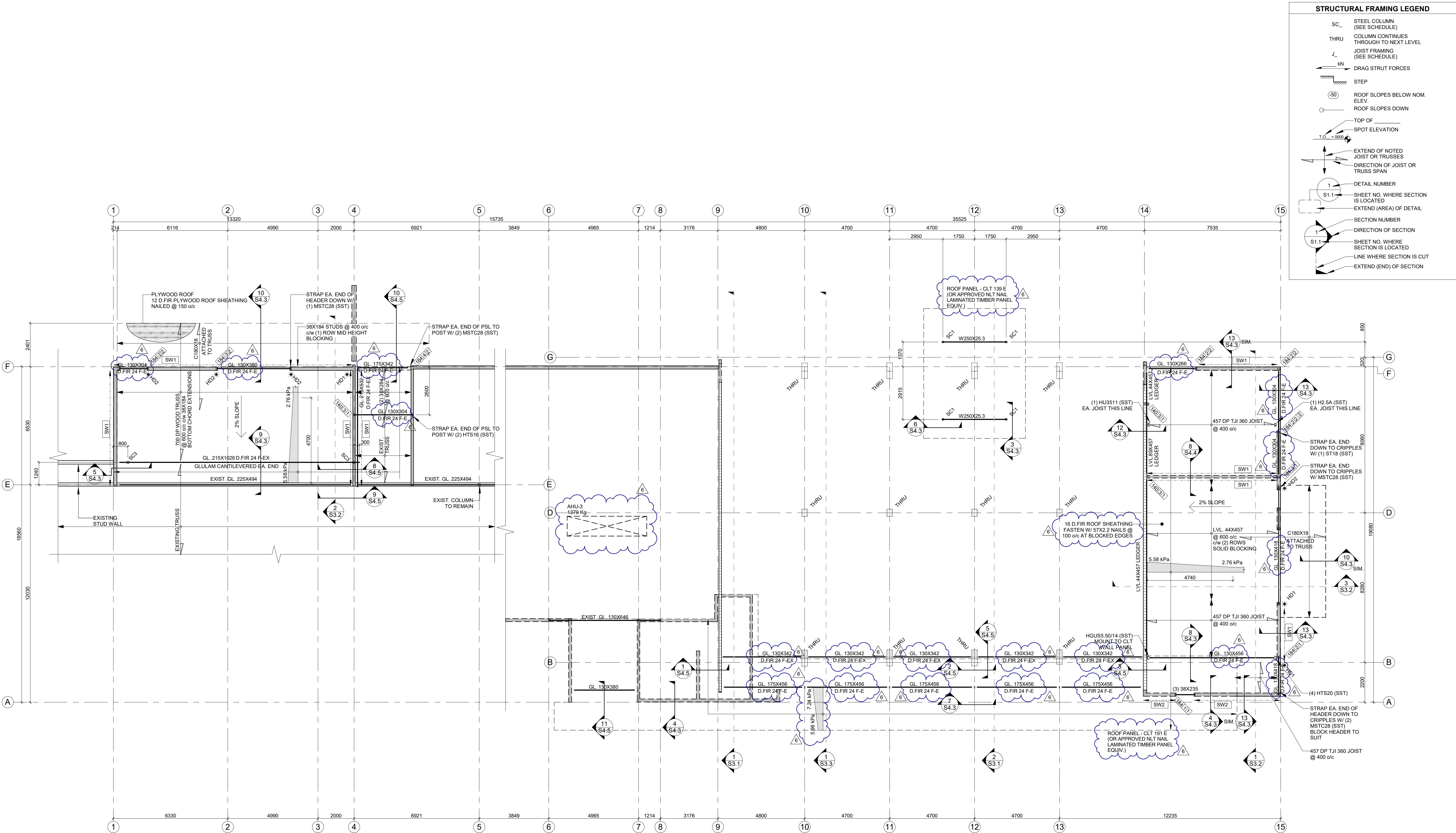
S2.2-1

REVISION No.

2

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FILE PATH: Z:\Drawings\2016\16-107 Smithers Airport\Drawings\16-107 Smithers Airport - Door Detail.rvt
PLOT DATE: 7/20/2017 4:12:18 PM



1
S2.3 LOW ROOF FRAMING PLAN
1 : 100

STRUCTURAL FRAMING LEGEND

- SC STEEL COLUMN (SEE SCHEDULE)
- THRU COLUMN CONTINUES THROUGH TO NEXT LEVEL
- JL JOIST FRAMING (SEE SCHEDULE)
- KN DRAG STRUT FORCES
- STEP
- ROOF SLOPES BELOW NOM. ELEV.
- ROOF SLOPES DOWN
- TOP OF SPOT ELEVATION
- T.O. = 0000
- EXTEND OF NOTED JOIST OR TRUSSES
- DIRECTION OF JOIST OR TRUSS SPAN
- DETAIL NUMBER
- SHEET NO. WHERE SECTION IS LOCATED
- EXTEND (AREA) OF DETAIL
- SECTION NUMBER
- DIRECTION OF SECTION
- SHEET NO. WHERE SECTION IS LOCATED
- LINE WHERE SECTION IS CUT
- EXTEND (END) OF SECTION

REV.	DATE	DESCRIPTION
1	2017/01/30	ISSUED FOR COORDINATION - 30%
2	2017/02/17	ISSUED FOR COORDINATION - 60%
3	2017/03/17	ISSUED FOR COORDINATION - 90%
4	2017/04/11	ISSUED FOR TENDER
5	2017/05/04	ISSUED FOR BUILDING PERMIT
6	2017/07/19	POST TENDER ADDENDUM No. 1

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Engineering Ltd.

#101 - 5622 VEDDER RD,
CHILLIWACK, BC V2R 3N1

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DRAWING TITLE
LOW ROOF FRAMING PLAN

PROJECT SHEET

16-107 S2.3

REVISION No. 6

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SHEARWALL SCHEDULE							
MARK	PLYWOOD	BLOCKING	NAILS	NAILING		ANCHOR BOLTS	
				EDGE	INTERMEDIATE	Ø	SPACING
SW1	13 D.FIR	SOLID	57X2.52 Ø	100	150	16 Ø	800 o/c
SW2	13 D.FIR	SOLID	57X2.52 Ø	75	100	16 Ø	800 o/c

HOLD DOWN SCHEDULE					
MARK	SST TYPE	Ø	ANCHOR BOLTS		
			GRADE	EMBED.	WASHER/HOOK
HD1	H0U6 (SST)	22 Ø	B7	300	80X80X13
HD2	H0U4 (SST)	16 Ø	B7	300	50 HOOK

STRUCTURAL COLUMN SCHEDULE		
MARK	TYPE	COMMENTS
SC1	HSS102X102X6.4	SEE DETAIL FOR BASE PLATE
SC3	HSS127X127X6.4	BASE PLATE TYPE 1

Cross Laminated Timber General Notes

All Cross Laminated Timber (CLT) Panels as shown on structural drawings are to be supplied by Structurlam wood products.
Alternative equivalent products are allowed, and supplier is to incur all costs of redesign. All panels are to support snow, wind and dead loads as noted. Design specifications for alternative products to be forwarded to Kerkhoff Engineering.

Unsolicited alternative proposals, and unsolicited substitutions of materials, structure, connections or otherwise, must be submitted with sketches and calculations sealed by a Professional Engineer registered in the Province/State of British Columbia and will require review by the consultants. Detailed reviews such as these, including changes to construction drawings and coordination, will be undertaken on an additional fee basis, at the Contractor's cost. This cost must be included in the proposal by the Contractor. Such review does not guarantee acceptance of the unsolicited alternative proposal(s).

CLT panels shall meet the following standards

- A. CAN/CSA O122-06, ANSI D3737-07 Structural Glued Laminated Timber.
B. CSA C88-14, Engineering Design in Wood, including Annex B.
C. CSA O112 SERIES-M1977 (R2008), CSA Standards for Wood Adhesives.
D. CSA O177-16, Qualification Code for Manufacturers of Structural Glued Laminated Timber.
E. APA Standard for Performance Rated CLT ANSI/APA PRG 320/2012

The general contractor is responsible for ensuring all product handling and construction site safety is in conformance with Worksafe BC guidelines.

Shop Drawings - Clearly indicate stress grade, appearance grade, connection details, shop applied finishes, shop and erection details, including cuts, holes, fastenings, camber and connection hardware.

Submit PDF shop drawings showing all applicable details and material specifications to the Engineer for review prior to fabrication. Shop drawings shall be accompanied by a certificate of conformance to manufacturing standard.

Cross Laminated Timber (CLT) manufacturer certified by CSA Administrative Board, Structure Glued Laminated Timber Division in accordance with CAN/CSA O177- to manufacture:

1. Class 1 interior softwood glued laminated members.
2. Class X exterior softwood glued laminated members.

Submit certificate in accordance with CAN/CSA O177.

Storage and Protection

- Sit underside of membrane covering during storage at site. Do not deface members.
Store CLT panels, blocked off ground and separated with striping, so air may circulate around all faces of members.
Cover top and sides with opaque moisture resistant membrane if outside.
Maintain protection of CLT panels during construction.

Materials

Laminating Stock for Cross Laminated Timber (CLT) panels: Spruce Pine #1/2 to CSA- 0122 - 06 or CSA 086 - 09. Underside of all roof panels to be D-Fir grade. See Architectural Division 6 specifications for finishing requirements.

Adhesives: To CSA 0112-10, and Sections 2.1.3 and 3.3 (ASTM D7247 heat durability) of AITC 405.
Acceptable Product: Purbond HB E452 (or approved equivalent).

Fabrication

Fabricate Cross Laminated Timber (CLT) panels in accordance with ANSI/APA PRG 320/2012 except where specified otherwise and to following classifications. Use multiple layers of 19mm minimum to 38mm maximum thick laminations. Exceptions only with written consent of the Consultant.

CLT grade: as indicated on drawings and referenced by APA/PRG 320 and APA PR-L314C.

Appearance Classification:

Exposed - where panels are in view in final construction. Exposed face to utilize "J" grade SPF Lumber, or L3 & Btr D, fir.

- Shake and checks allowed up to 610mm long, none through
- Up to a maximum of 5% Blue stain allowed, heart stain permitted.
- Knots - firm and tight (NLGA #2)
- Pitch streaks not limited
- Wane on face not permitted
- Side pressure on exposed faces required

Erection

Erect CLT panels in accordance with final reviewed shop drawings.

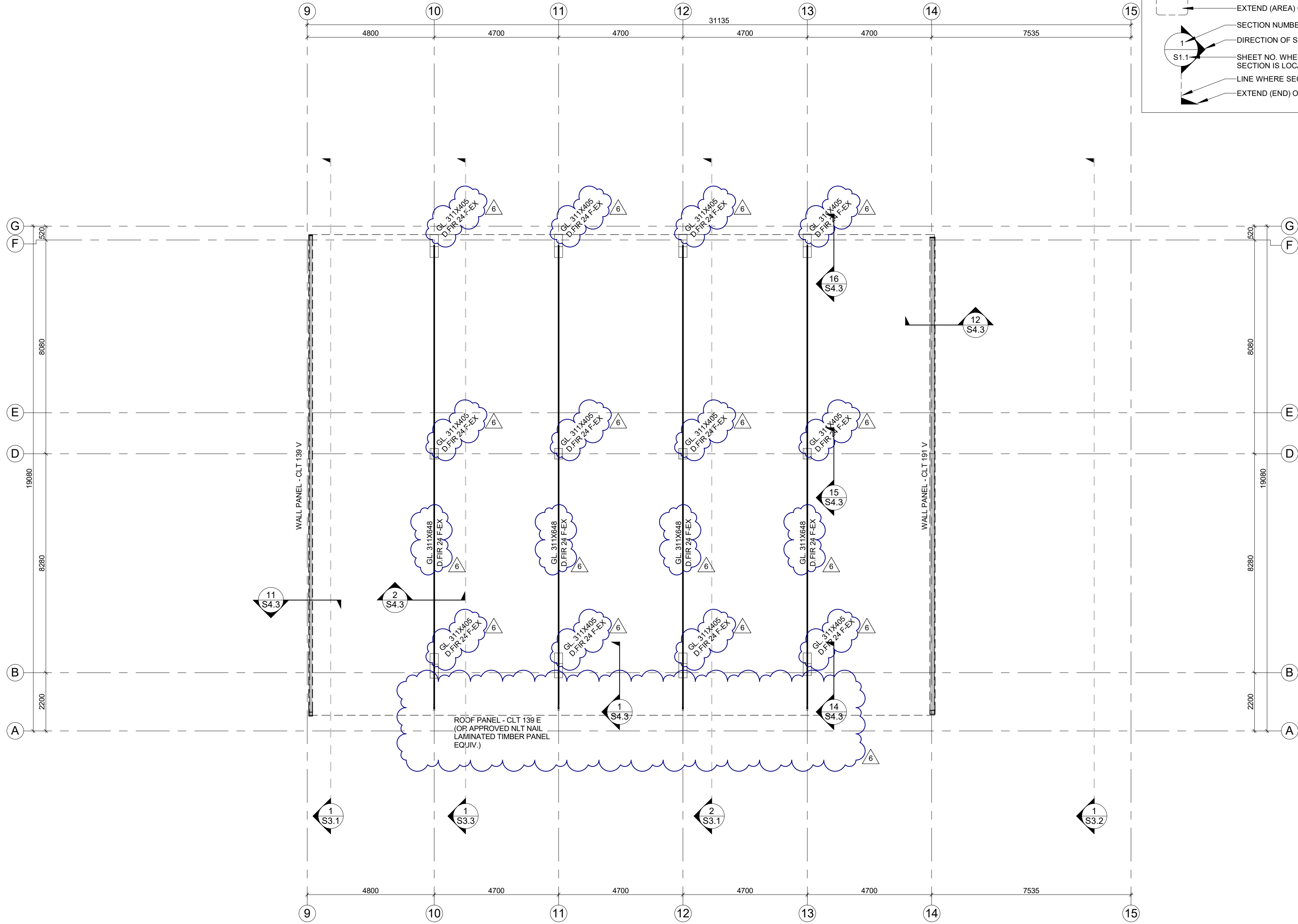
Make adequate provision for possible erection stresses. Set panels level and plumb to correct positions. Securely brace panels and anchor in place to maintain plumb until permanently secured by finished structure.

Fit CLT panels closely and accurately, without trimming, cutting or other modifications, unless approved in writing by Engineer.

Site cutting or boring of CLT panels, other than shown on shop drawings not permitted without written consent of Engineer.

2 CLT SPECIFICATIONS

S2.4 1 : 25



1 HIGH ROOF FRAMING PLAN

S2.4 1 : 100

STRUCTURAL FRAMING LEGEND

- SC STEEL COLUMN (SEE SCHEDULE)
THRU COLUMN CONTINUES THROUGH TO NEXT LEVEL
J JOIST FRAMING (SEE SCHEDULE)
kN DRAG STRUT FORCES
STEP
(-50) ROOF SLOPES BELOW NOM. ELEV.
ROOF SLOPES DOWN
TOP OF SPOT ELEVATION
T.O. = 0000
EXTEND OF NOTED JOIST OR TRUSSES
DIRECTION OF JOIST OR TRUSS SPAN
1 DETAIL NUMBER
S1.1 SHEET NO. WHERE SECTION IS LOCATED
EXTEND (AREA) OF DETAIL
1 SECTION NUMBER
S1.1 DIRECTION OF SECTION
SHEET NO. WHERE SECTION IS LOCATED
LINE WHERE SECTION IS CUT
EXTEND (END) OF SECTION

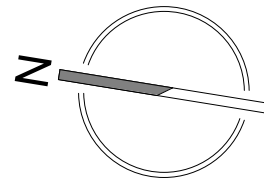
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6	2017/07/19	POST TENDER ADDENDUM No. 1

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CONSULTANT

kerkhoff
Engineering Ltd.

#101 - 5622 VEDDER RD,
CHILLIWACK, BC V2R 3N1



SEAL

**SMITHERS
AIRPORT**

6421 AIRPORT ROAD, SMITHERS, BC



DRAWN BY KN
CHECKED TK
P: 604-858-3730
E: info@kerkhoffeng.ca
W: kerkhoffeng.ca

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DRAWING TITLE
**HIGH ROOF FRAMING
PLAN**

PROJECT SHEET

16-107 S2.4

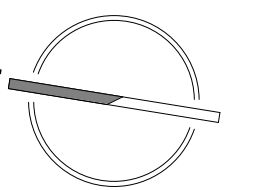
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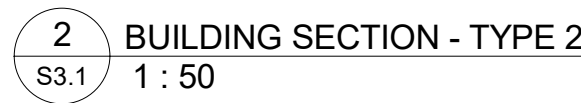
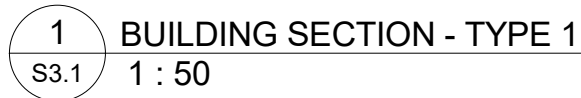
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16-107	S3.1
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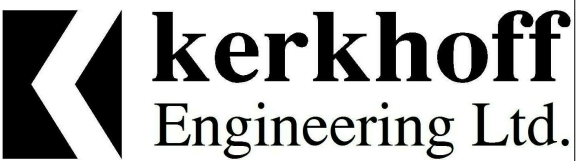
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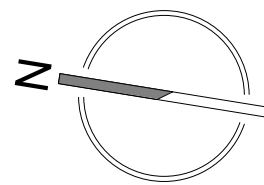
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#101 - 5622 VEDDER RD.
CHILLIWACK, BC V2R 3N1



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CHECKED TK
P: 604-858-3730
E: info@kerkhoffeng.ca
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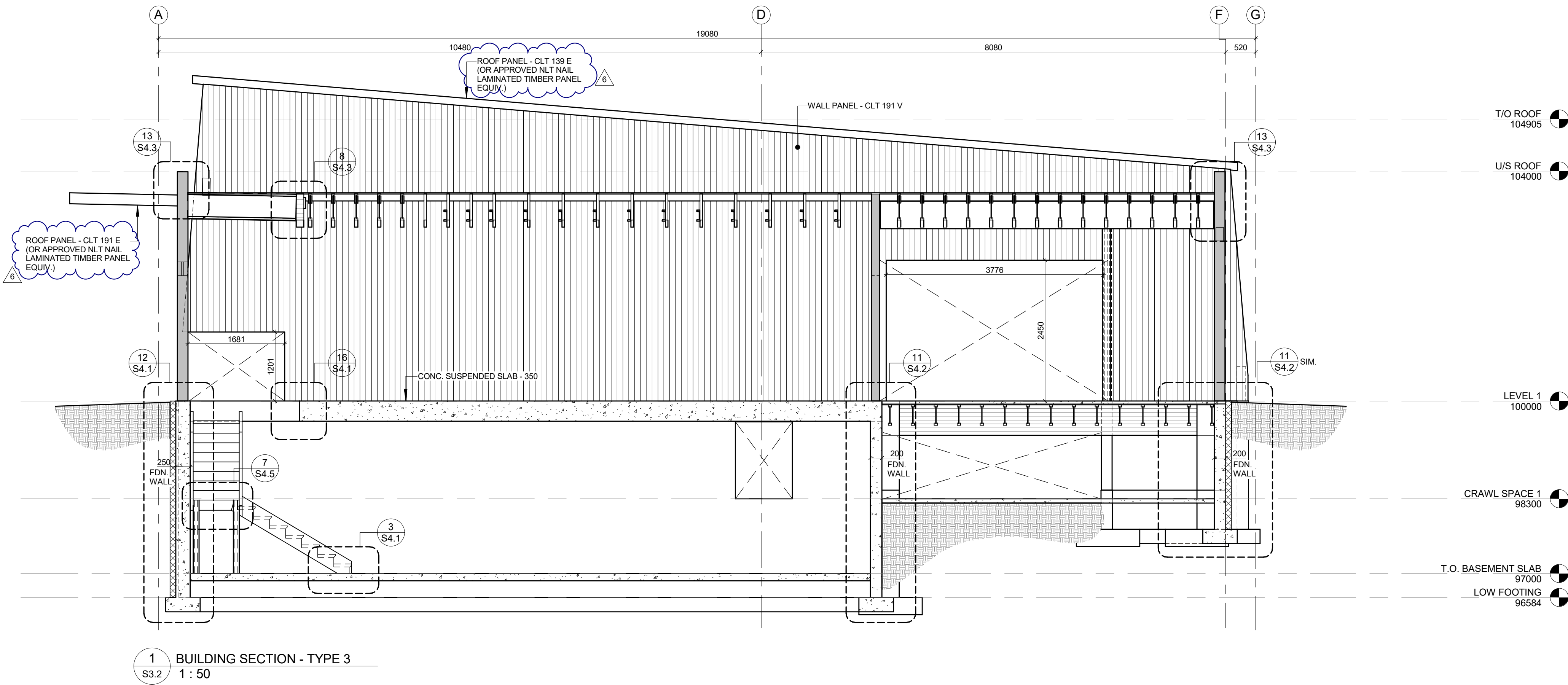
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PROJECT SHEET

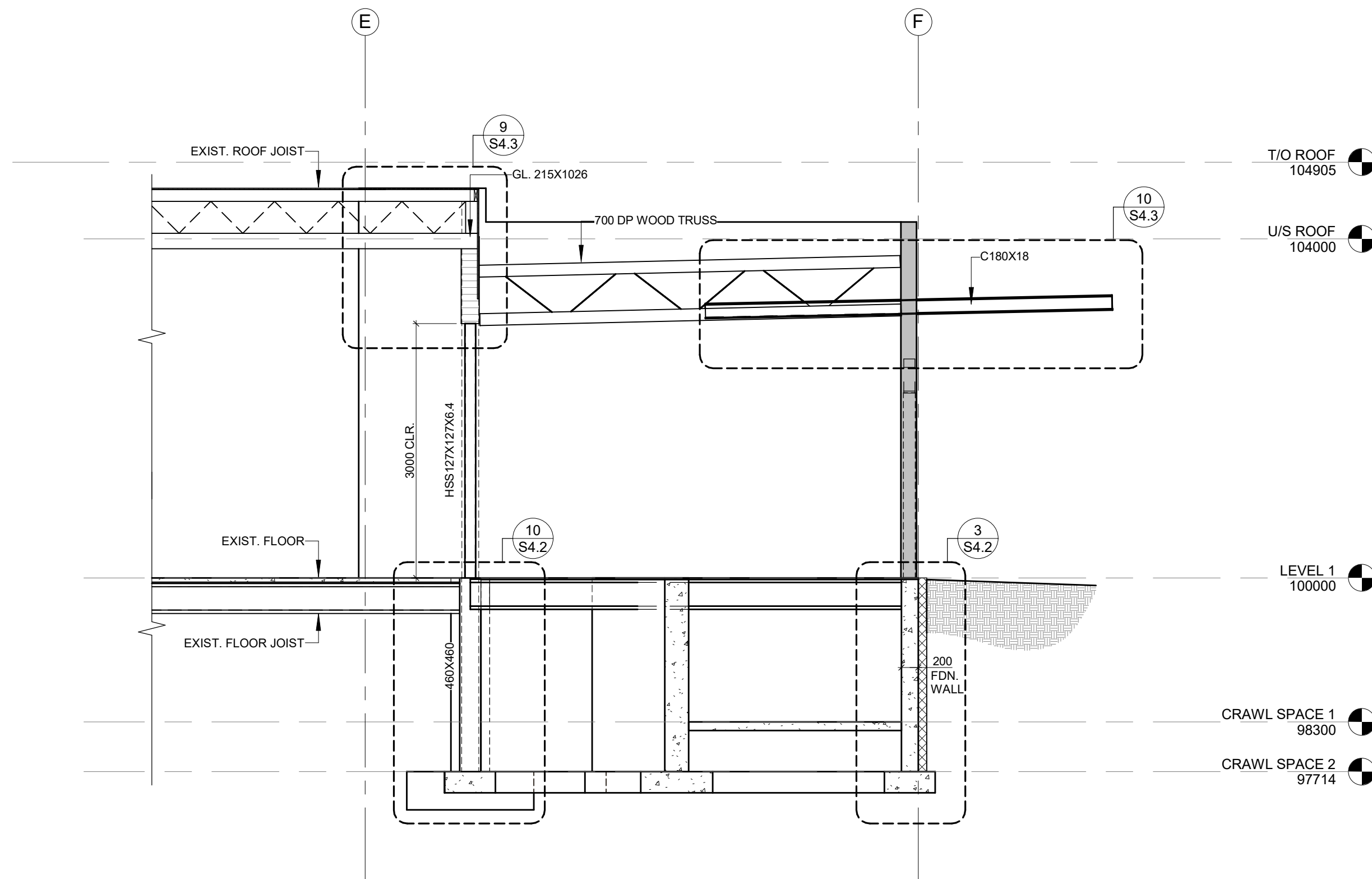
16-107 S3.2

REVISION No. 6

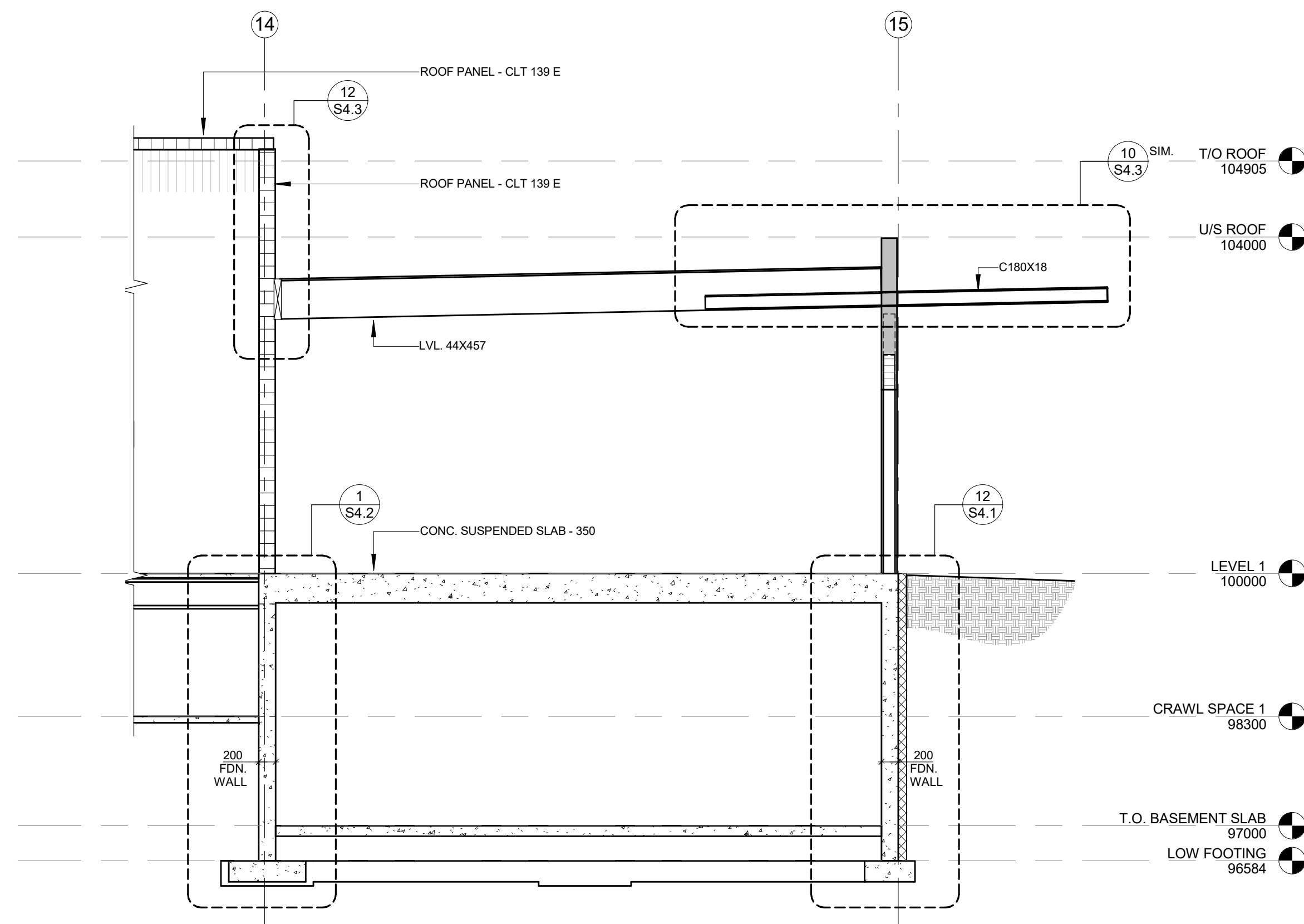
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1 BUILDING SECTION - TYPE 3
S3.2 1 : 50



2 BUILDING SECTION - TYPE 4
S3.2 1 : 50



3 BUILDING SECTION - TYPE 5
S3.2 1 : 50

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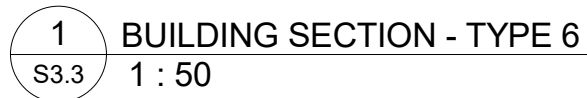
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PROJECT	SHEET
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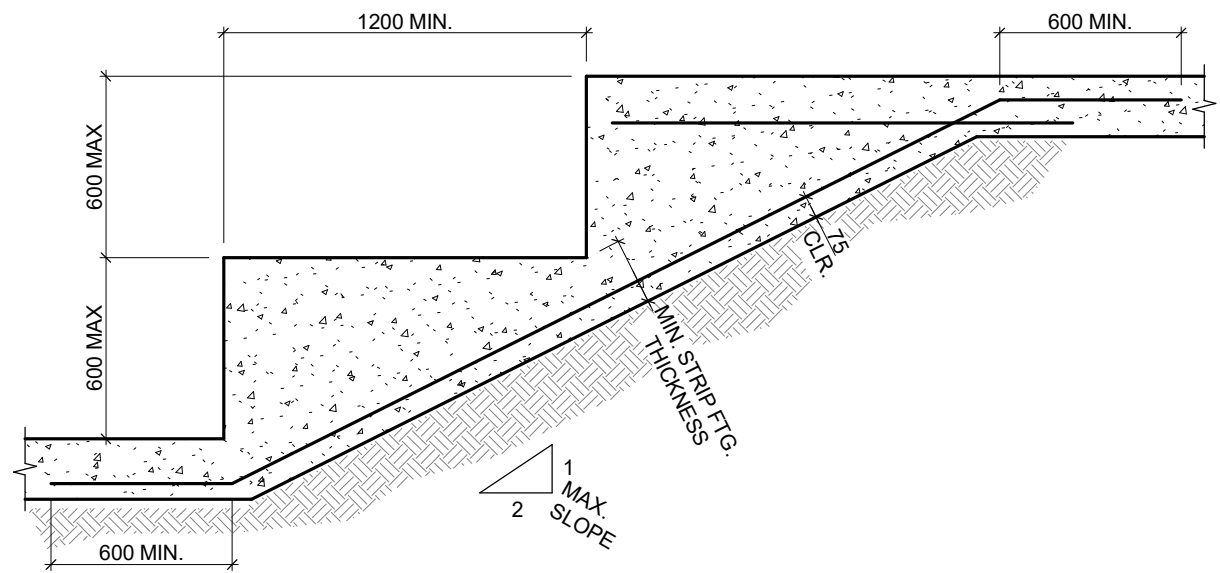
S3.3

3

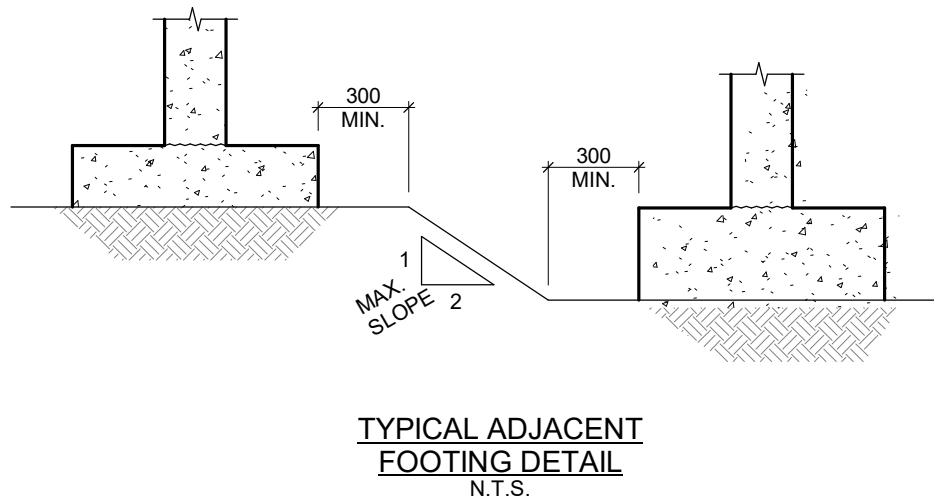
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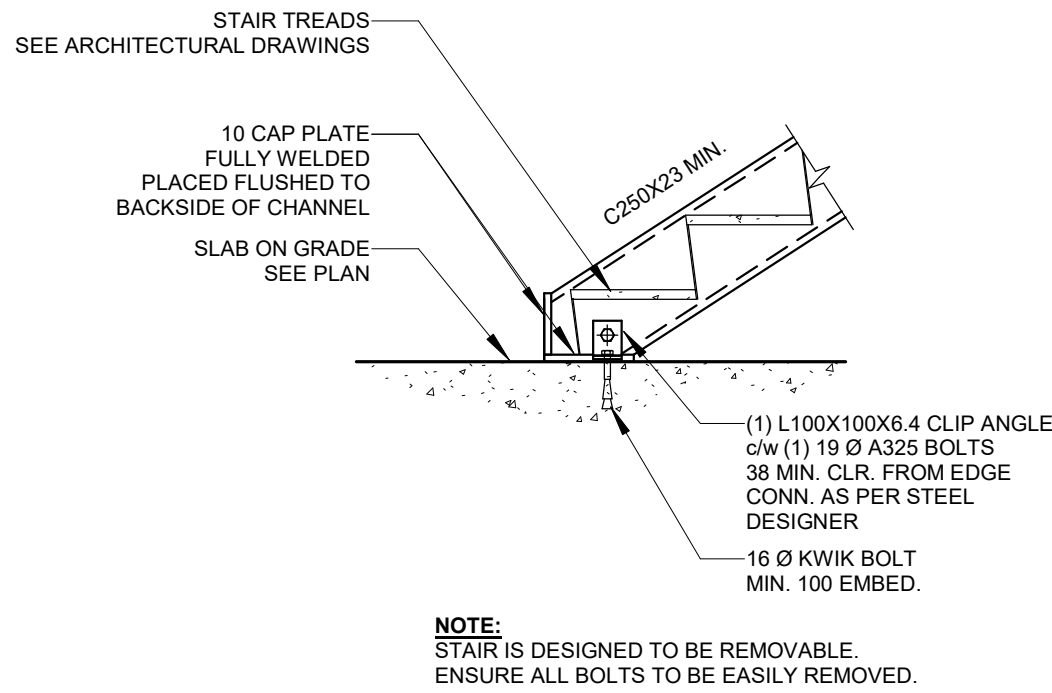
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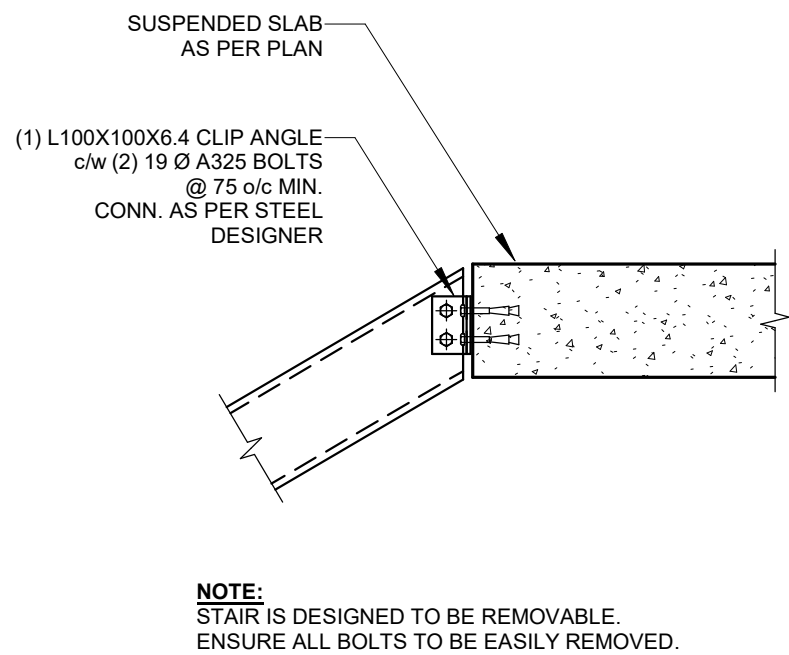
1 FDN STEPPED FOOTING DETAIL
1 : 25



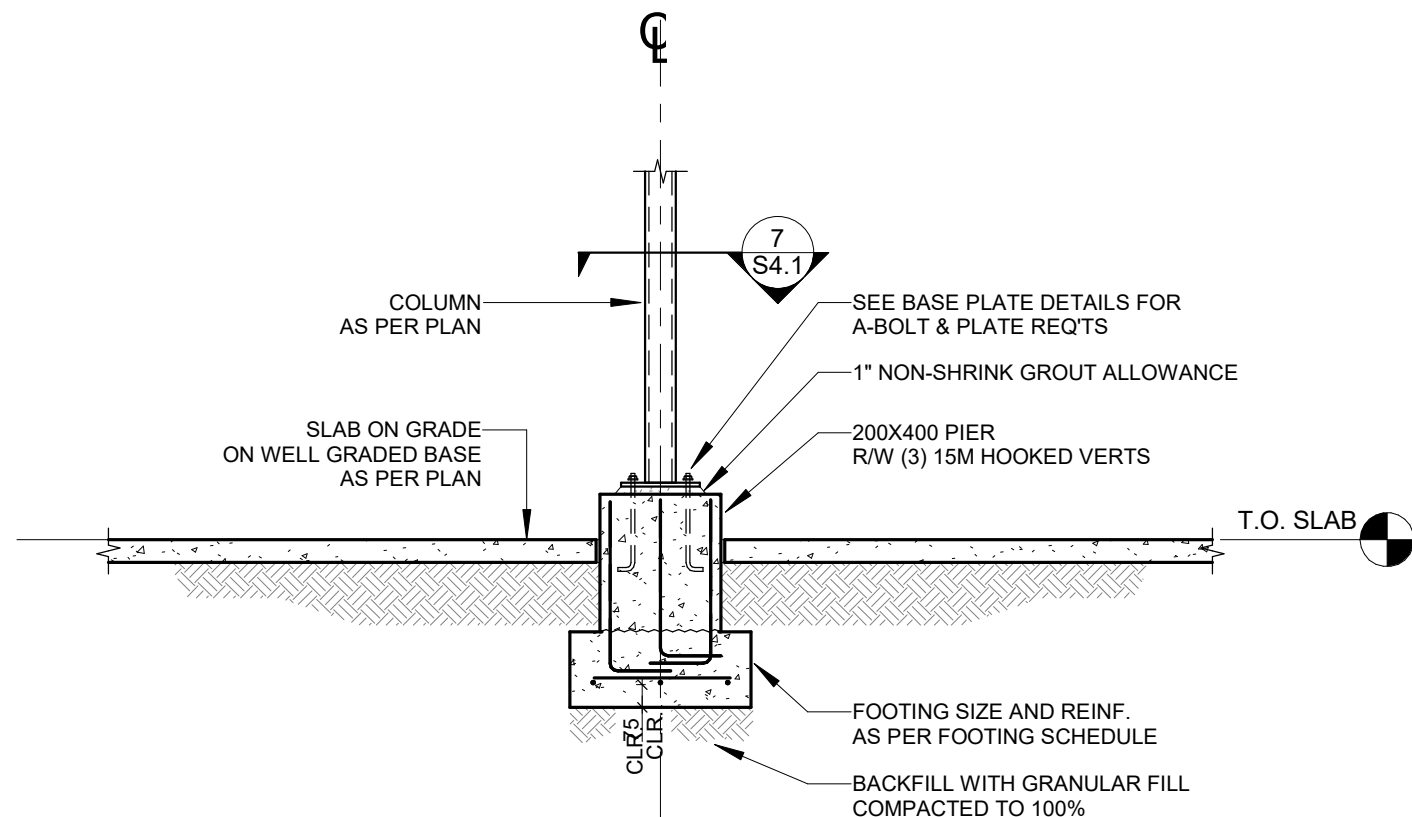
2 TYPICAL ADJACENT FOOTING DETAIL
1 : 25



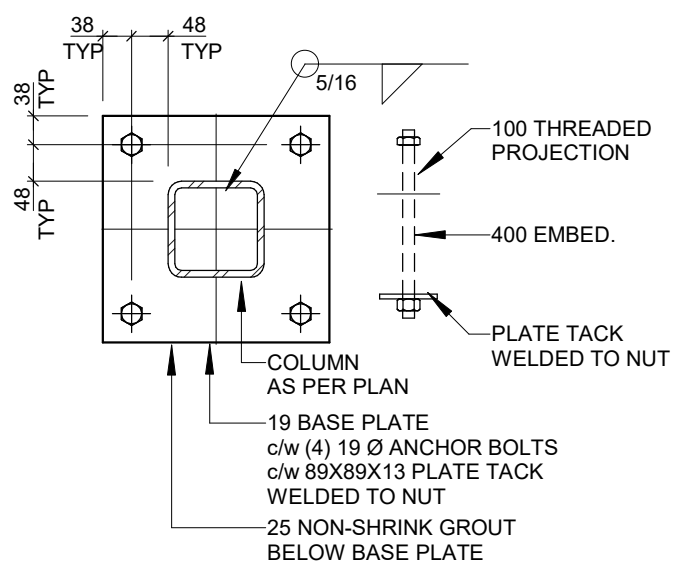
3 STAIR CONNECTION TO SLAB
S2.1 1 : 20



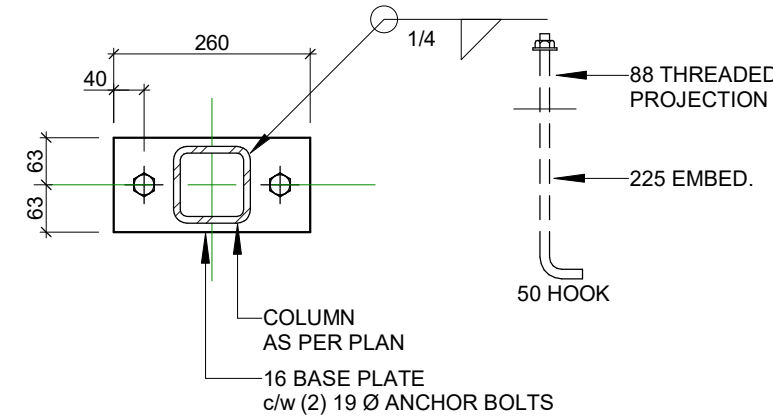
4 STAIR STRINGER TO SUSPENDED SLAB CONNECTION
S2.2 1 : 20



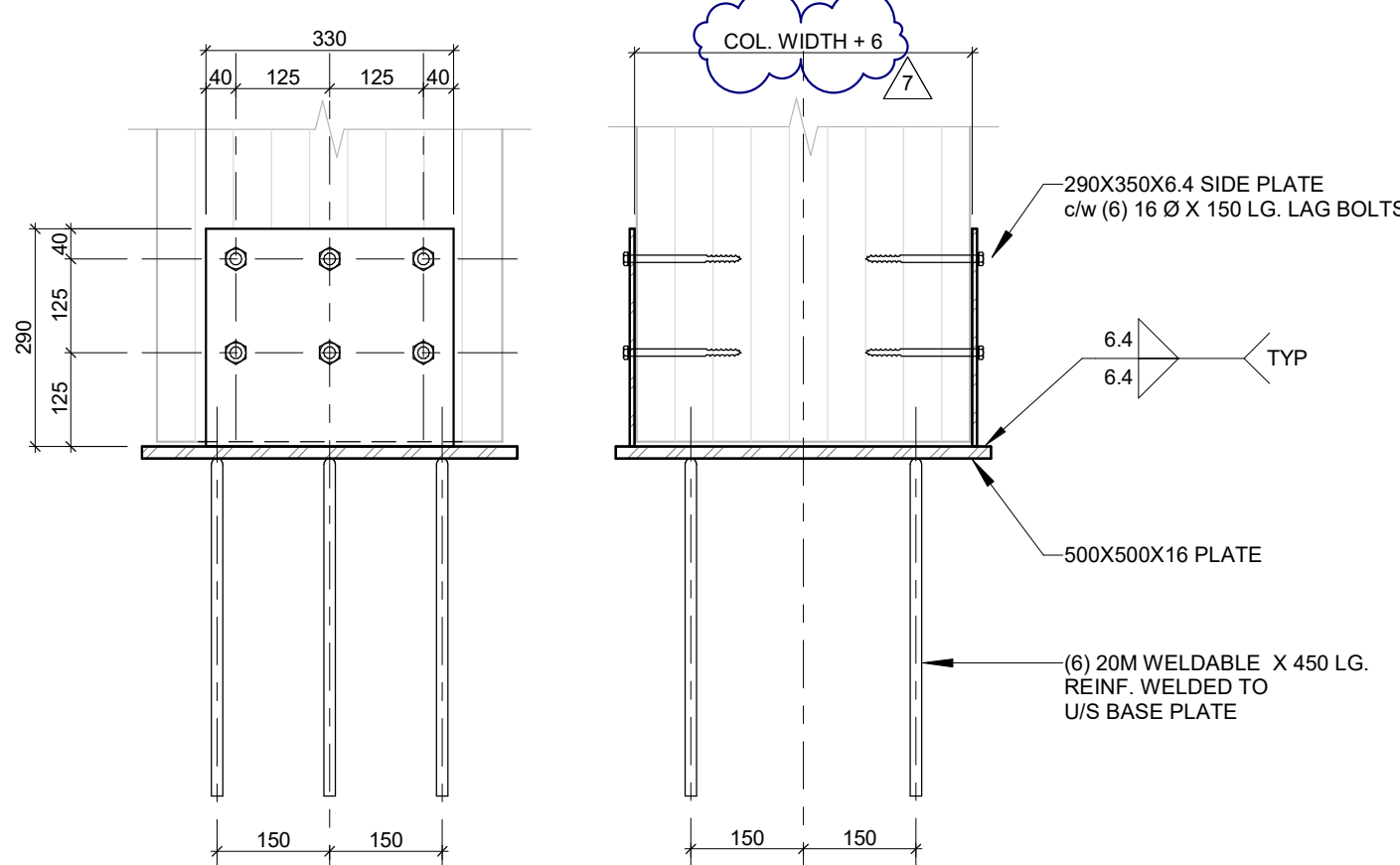
5 COLUMN TO FOOTING
S2.1 1 : 25



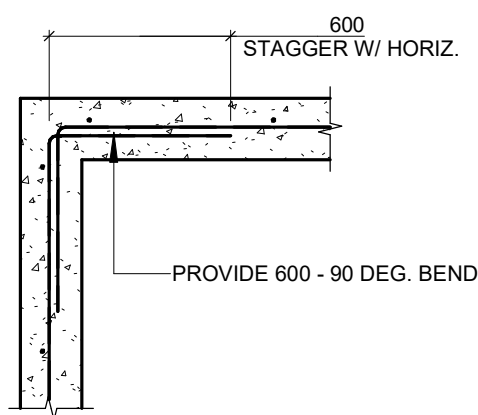
6 BASE PLATE TYPE 1
S4.2 1 : 10



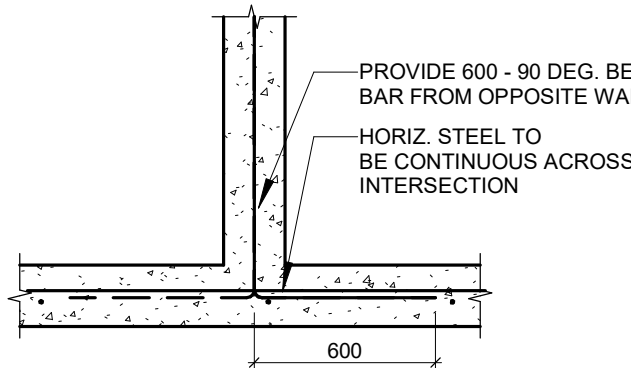
7 BASE PLATE TYPE 2
S4.1 1 : 10



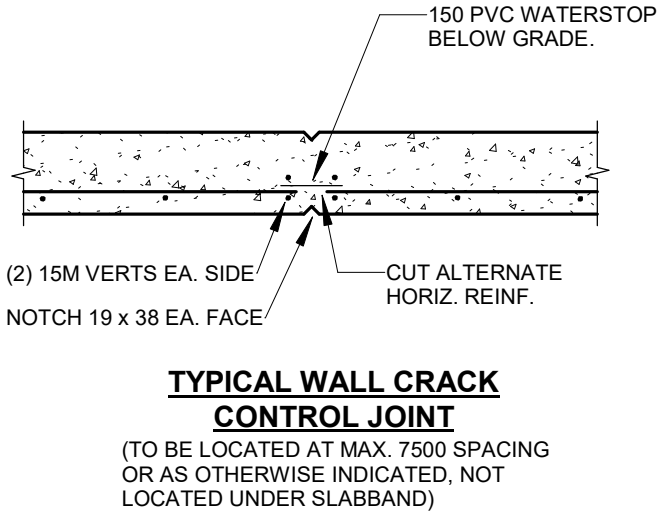
8 POST SADDLE DETAIL
S4.1 1 : 10



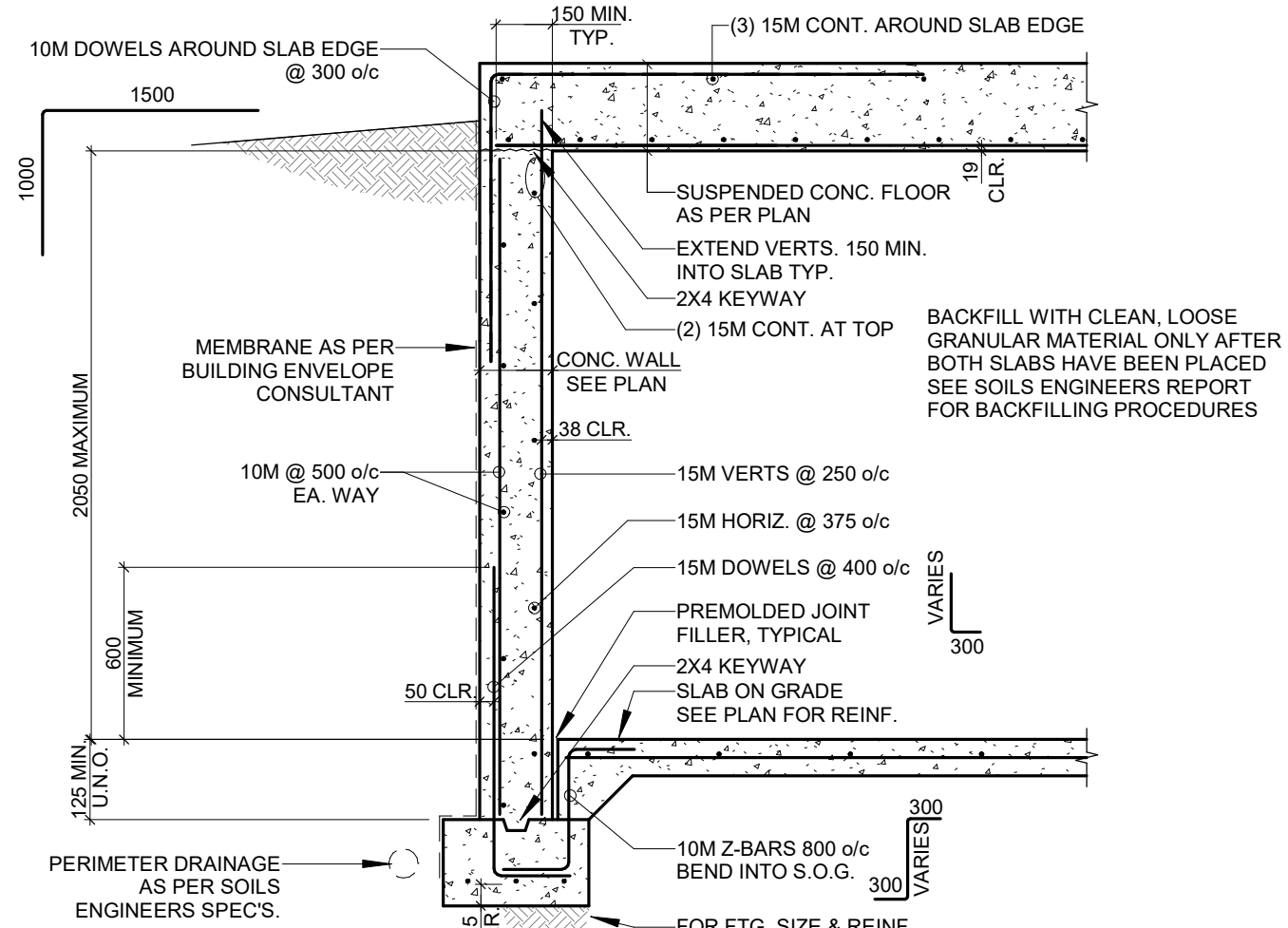
9 TYPICAL CORNER DETAIL
1 : 25



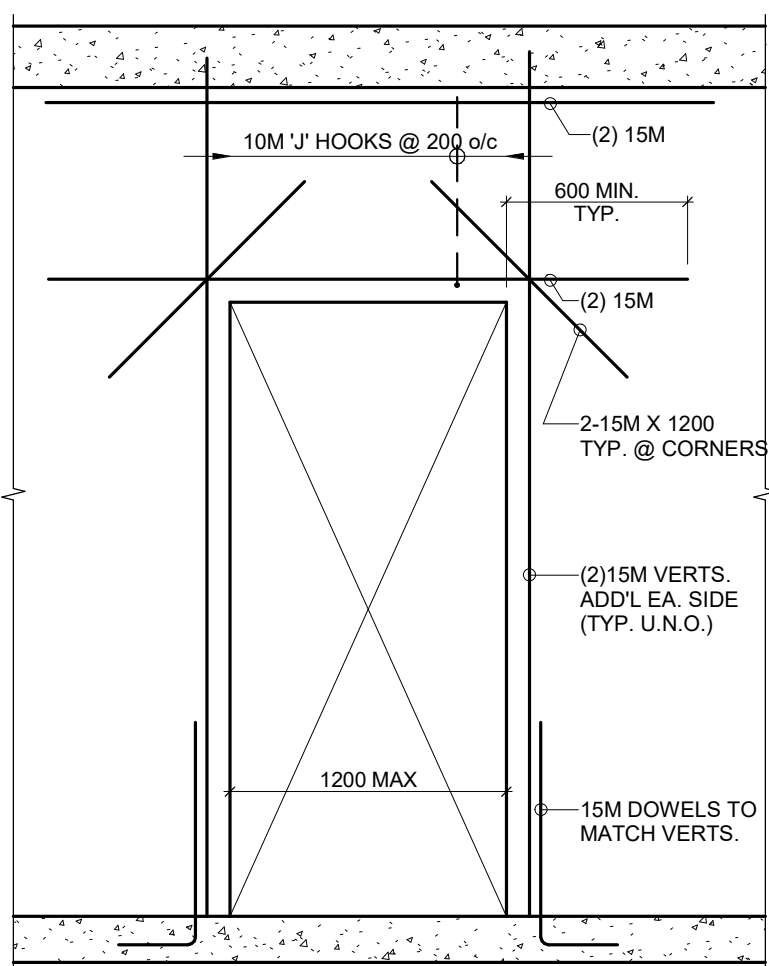
10 TYPICAL TEE DETAIL
1 : 25



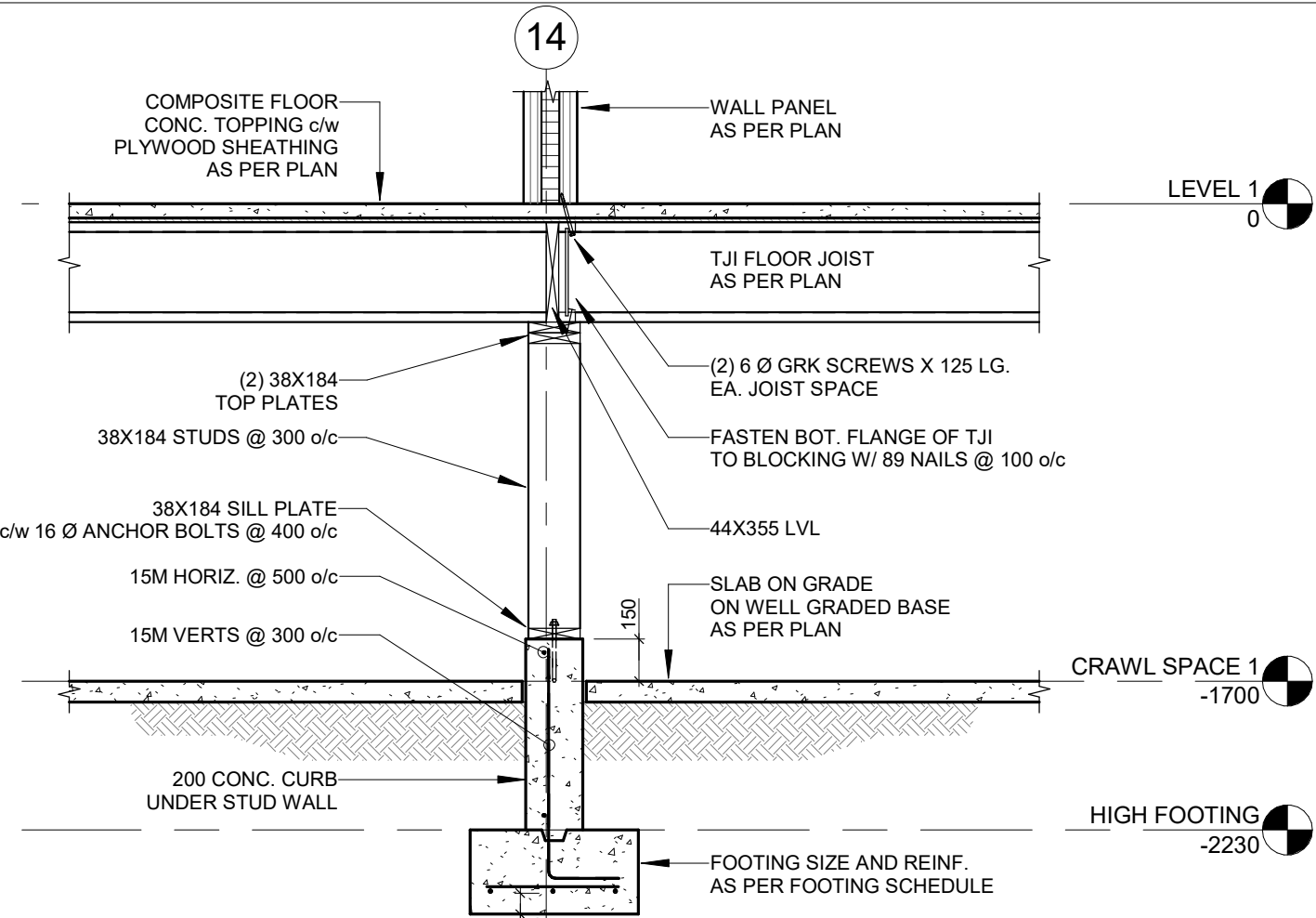
11 TYPICAL WALL DETAIL
1 : 25



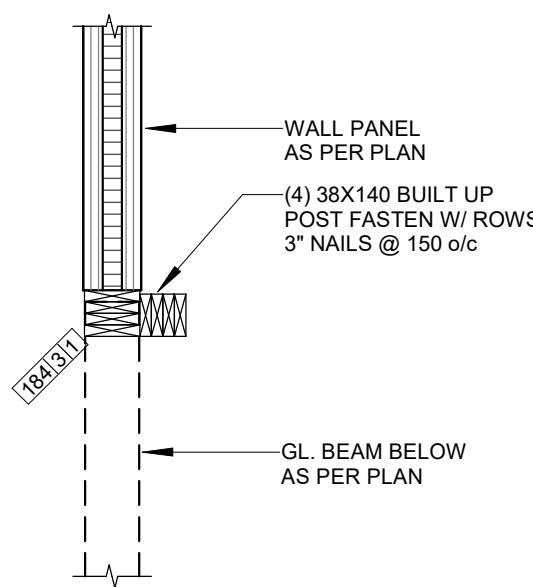
12 ONE LEVEL RETAINING
1 : 25



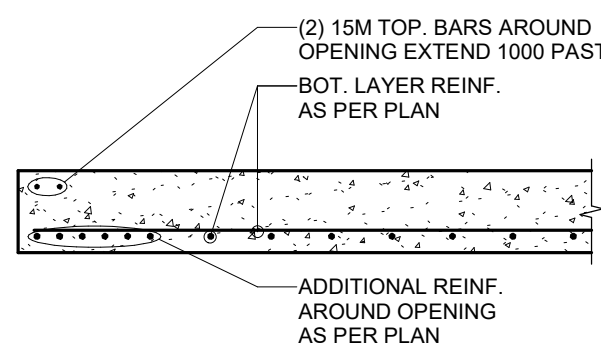
13 TYP REINF AND WALL OPENINGS
1 : 25



14 BEARING STUD WALL UNDER CLT WALL PANEL
S2.1 1 : 25



15 BUILT UP POST OVER PSL
S2.2 1 : 25



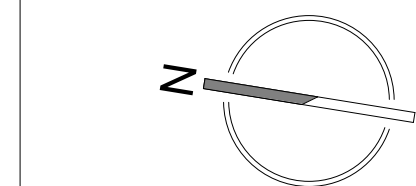
16 TYPICAL FLOOR SLAB OPENING EDGE DETAIL
S2.2 1 : 25

REV.	DATE	DESCRIPTION
1	2017/01/30	ISSUED FOR COORDINATION - 30%
2	2017/02/17	ISSUED FOR COORDINATION - 60%
3	2017/03/17	ISSUED FOR COORDINATION - 90%
4	2017/04/11	ISSUED FOR TENDER
5	2017/05/04	ISSUED FOR BUILDING PERMIT
6	2017/05/11	ADDENDUM No. 3
7	2017/07/19	POST TENDER ADDENDUM No. 1

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kerkhoff
Engineering Ltd.
#101 - 5622 VEDDER RD,
CHILLIWACK, BC V2R 3N1



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SMITHERS
AIRPORT

6421 AIRPORT ROAD, SMITHERS, BC



DRAWN BY KN
CHECKED TK
SCALE AS NOTED
DATE 2017/07/19

☐ ISSUED FOR CONSTRUCTION
☒ ISSUED FOR TENDER
☒ ISSUED FOR BUILDING PERMIT

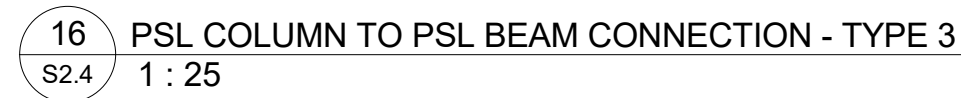
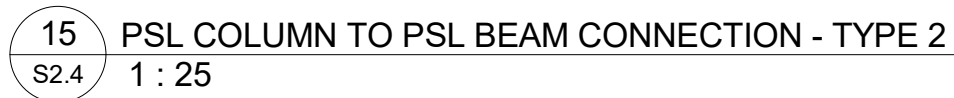
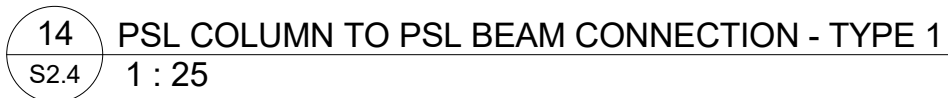
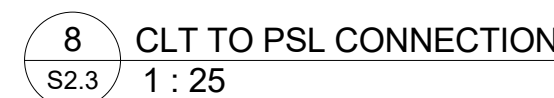
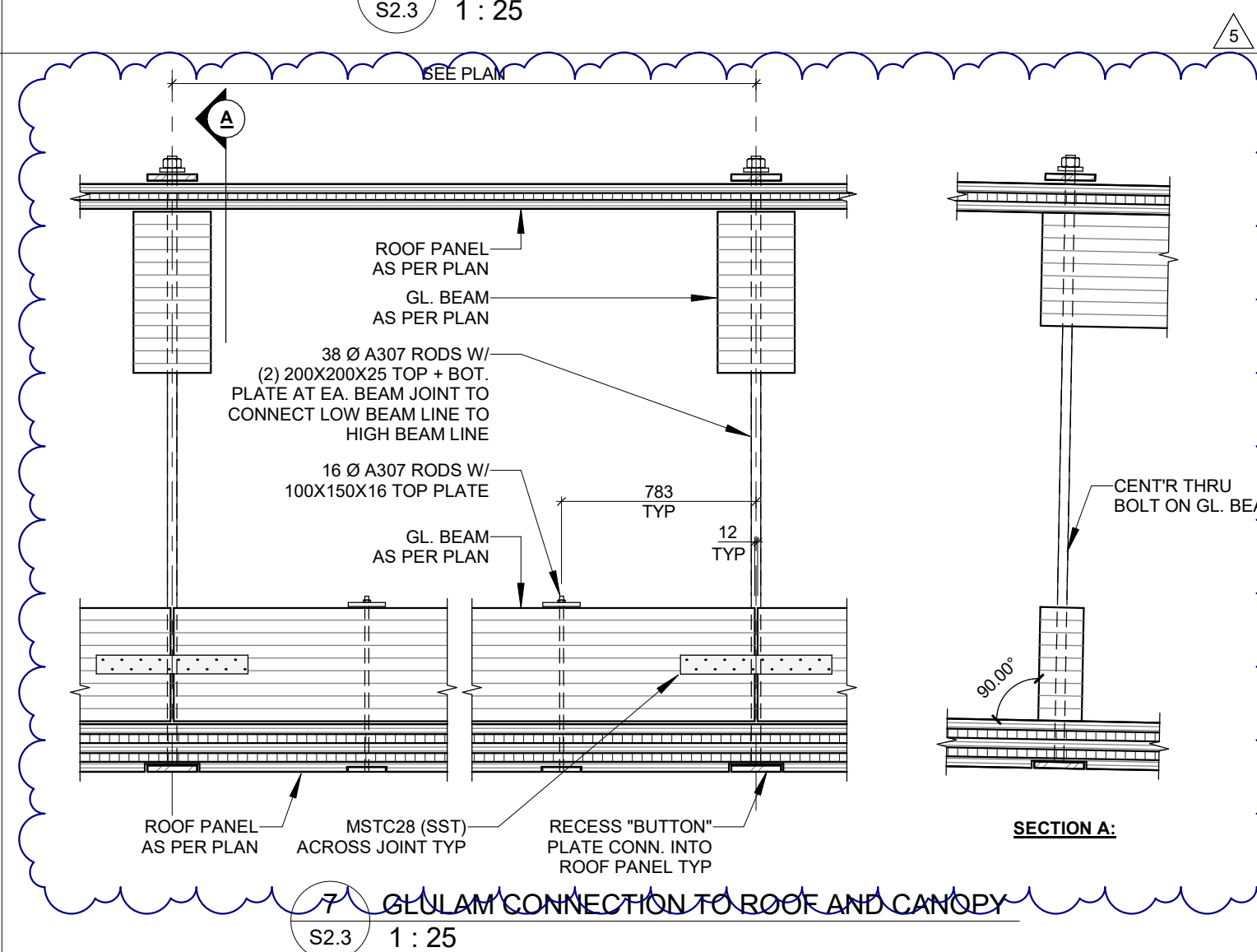
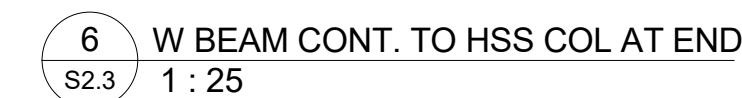
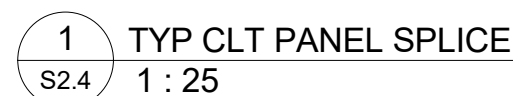
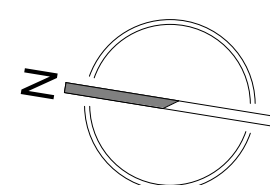
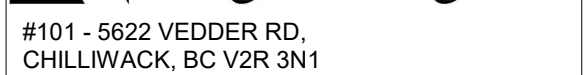
DRAWING TITLE
SECTIONS AND DETAILS

PROJECT SHEET

16-107 **S4.1**

REVISION No. 7

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CONSULTANT

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SMITHERS
AIRPORT

6421 AIRPORT ROAD, SMITHERS, BC



MW
Inc.

SCALE	AS NOTED	DATE	2017/07/19
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☐ ISSUED FOR CONSTRUCTION

■ ISSUED FOR TENDER

ISSUED FOR BUILDING PERMIT

DRAWING TITLE

SECTIONS AND DETAILS

PROJECT	SHEET
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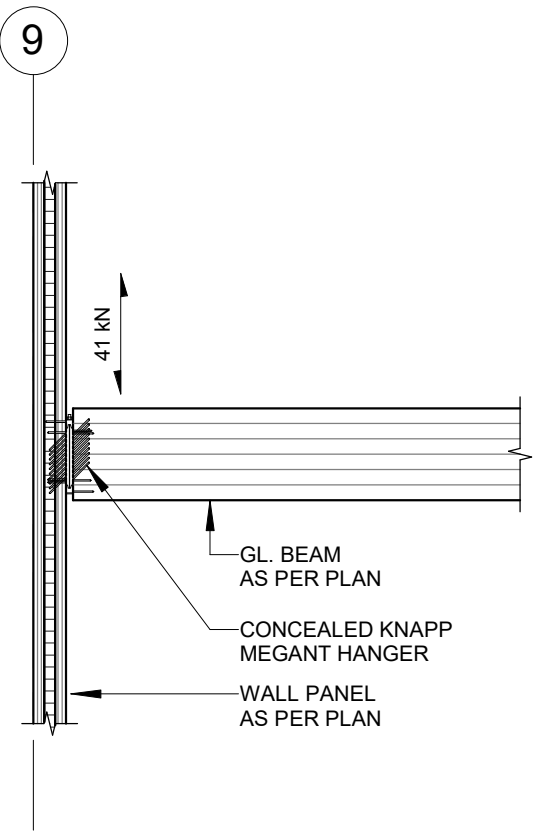
16-107

S4.3

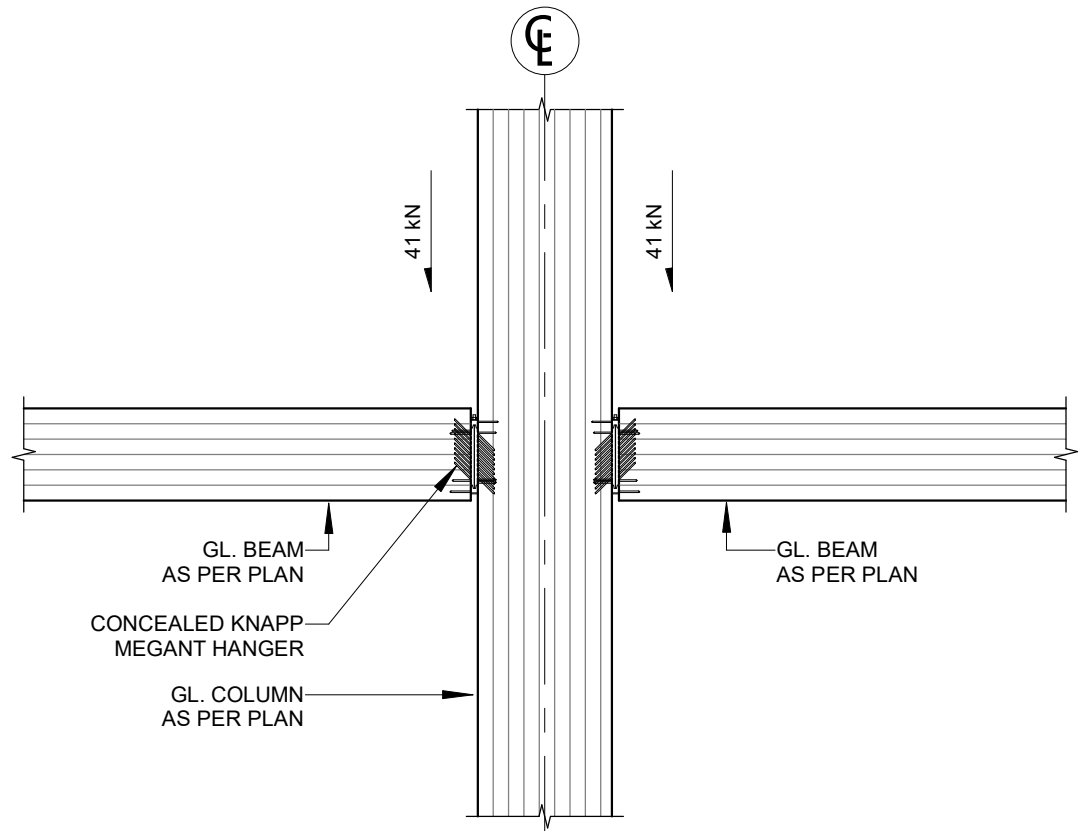
REVISION No.

5

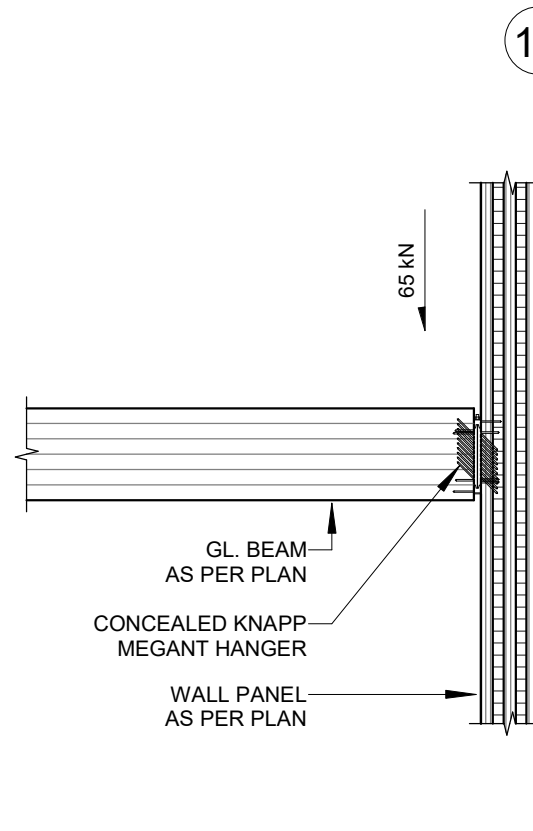
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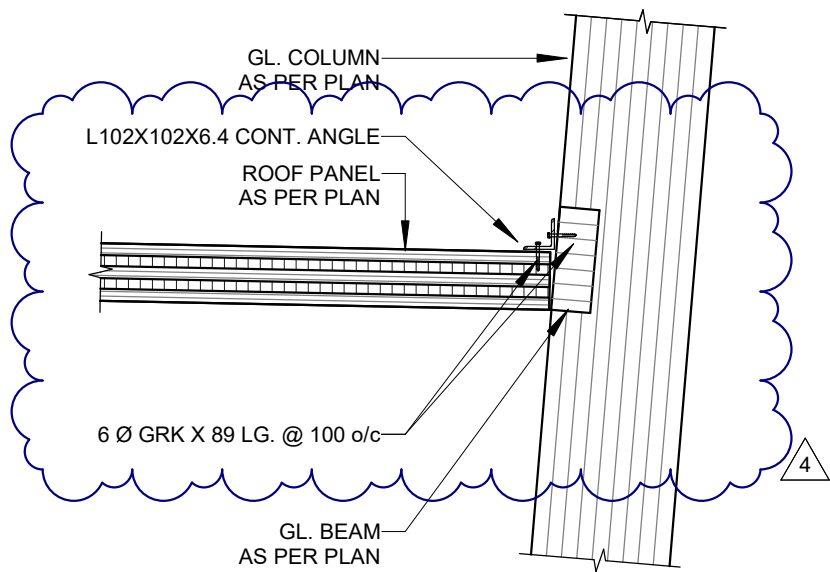
1 GLULAM TO CLT WALL PANEL MYTICON CONNECTION - TYPE 1
S4.5 1 : 25



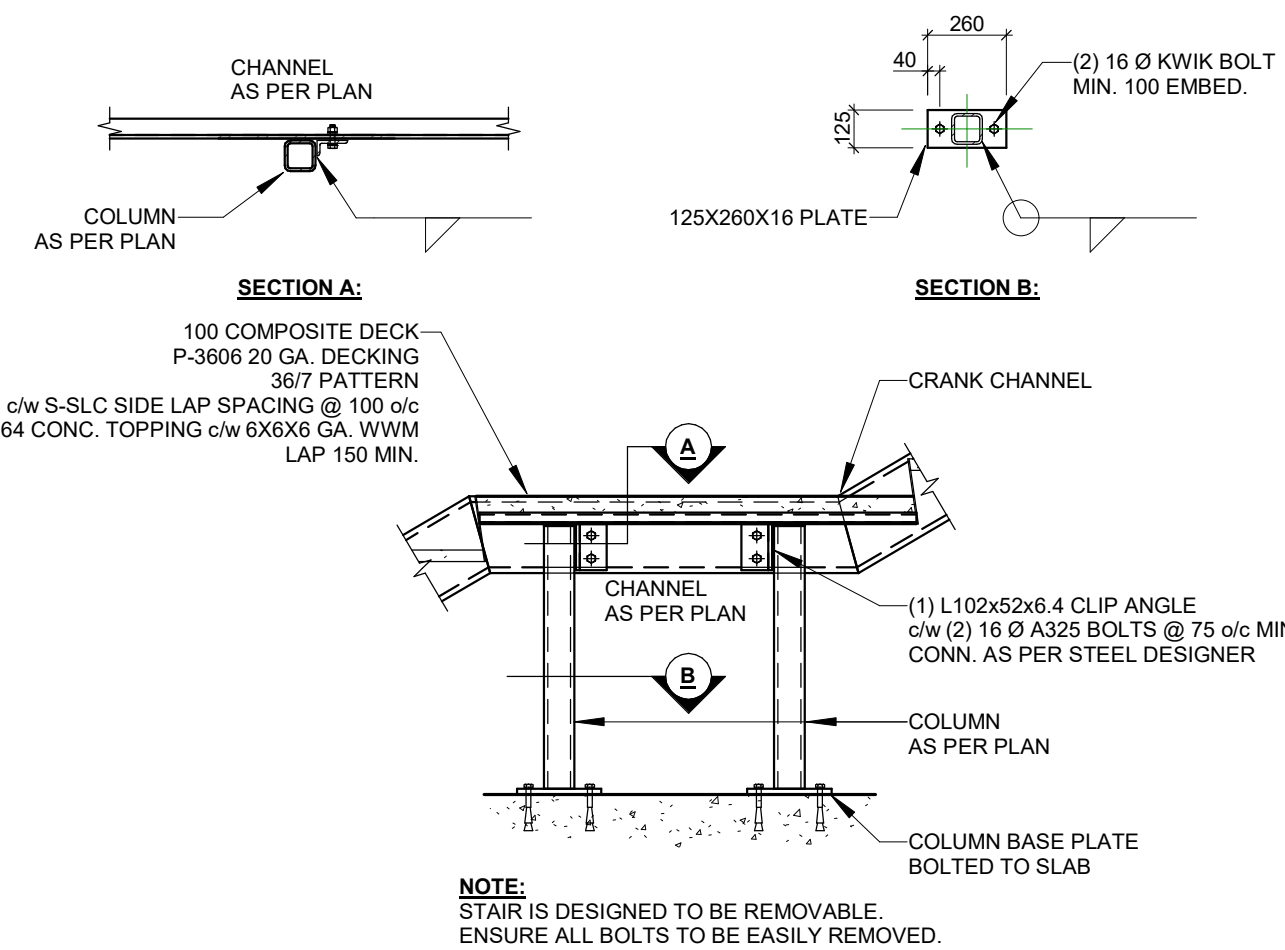
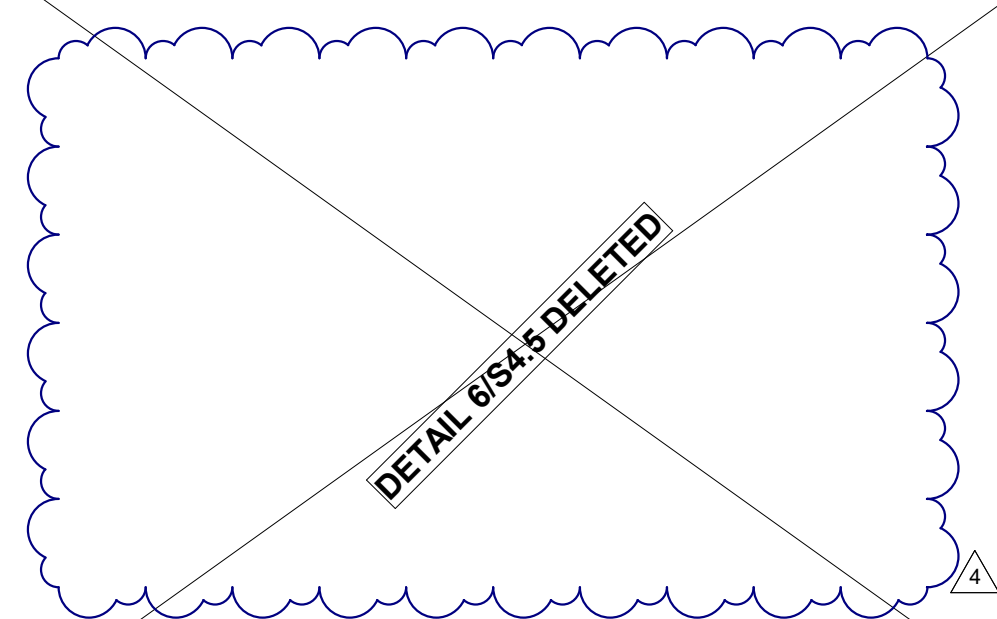
2 GLULAM TO PSL COLUMN MYTICON CONNECTION
S2.3 1 : 25



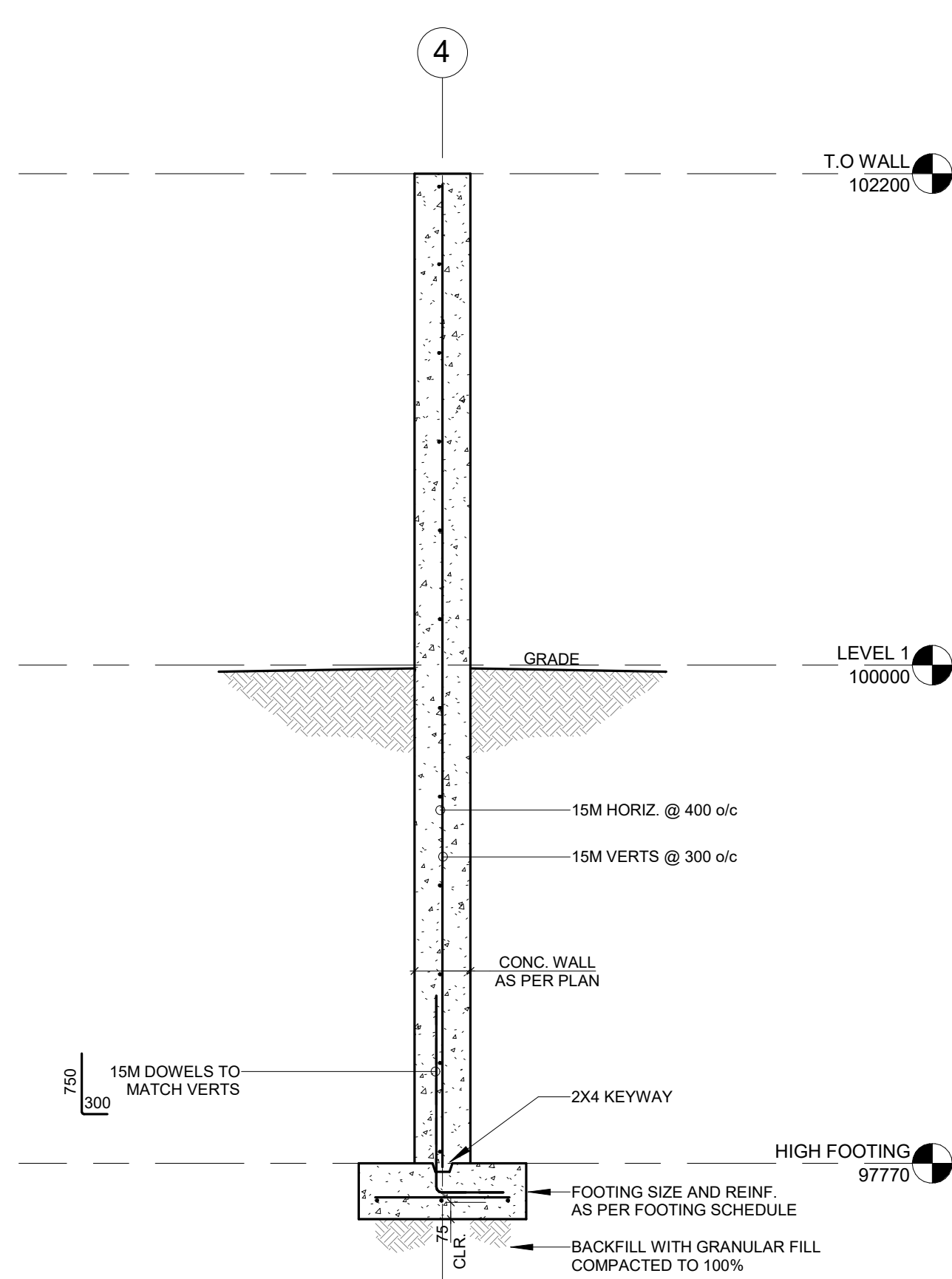
3 GLULAM TO CLT WALL PANEL MYTICON CONNECTION - TYPE 1
S2.3 1 : 25



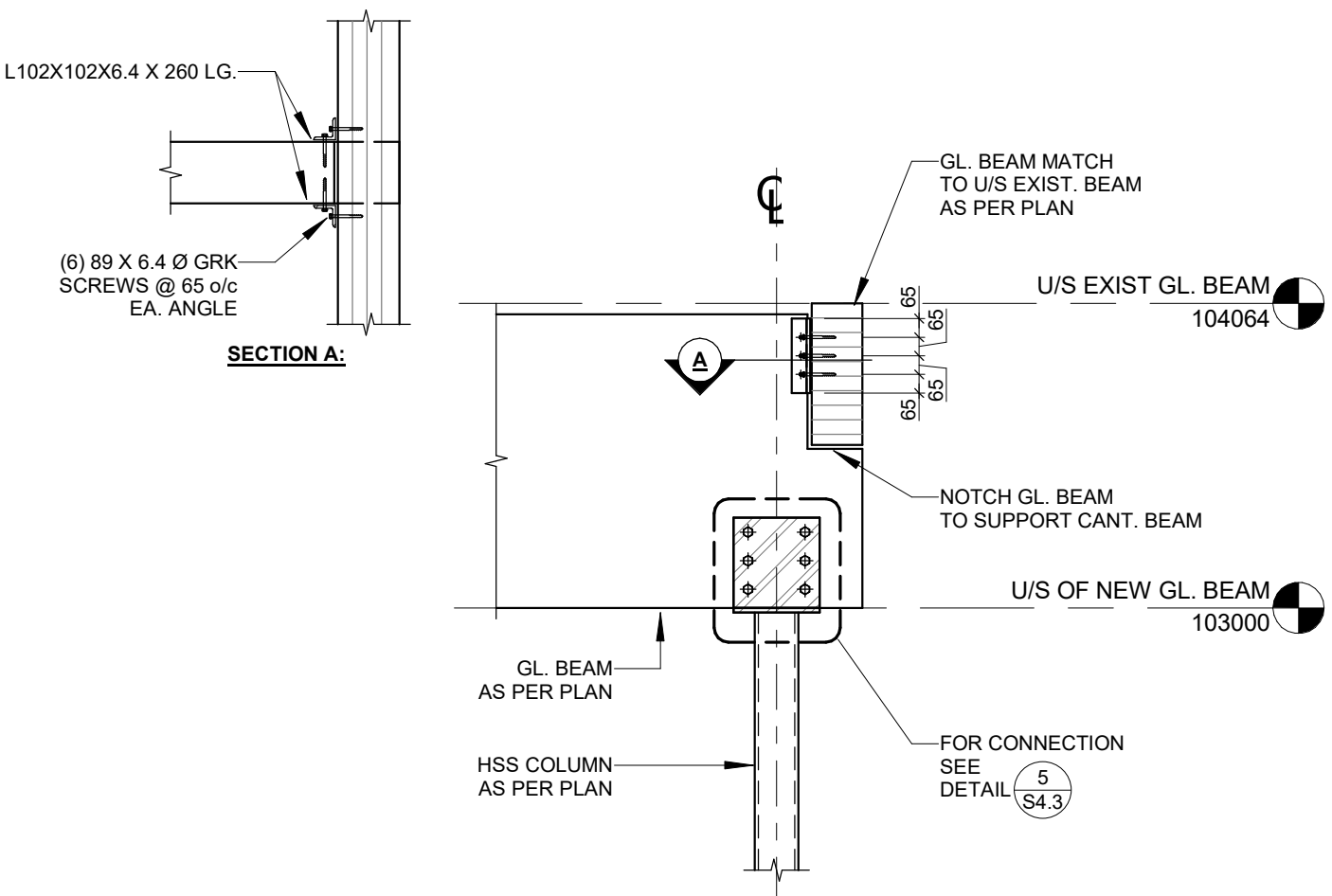
5 ROOF PANEL TO GLULAM BEAM CONNECTION
S2.3 1 : 25



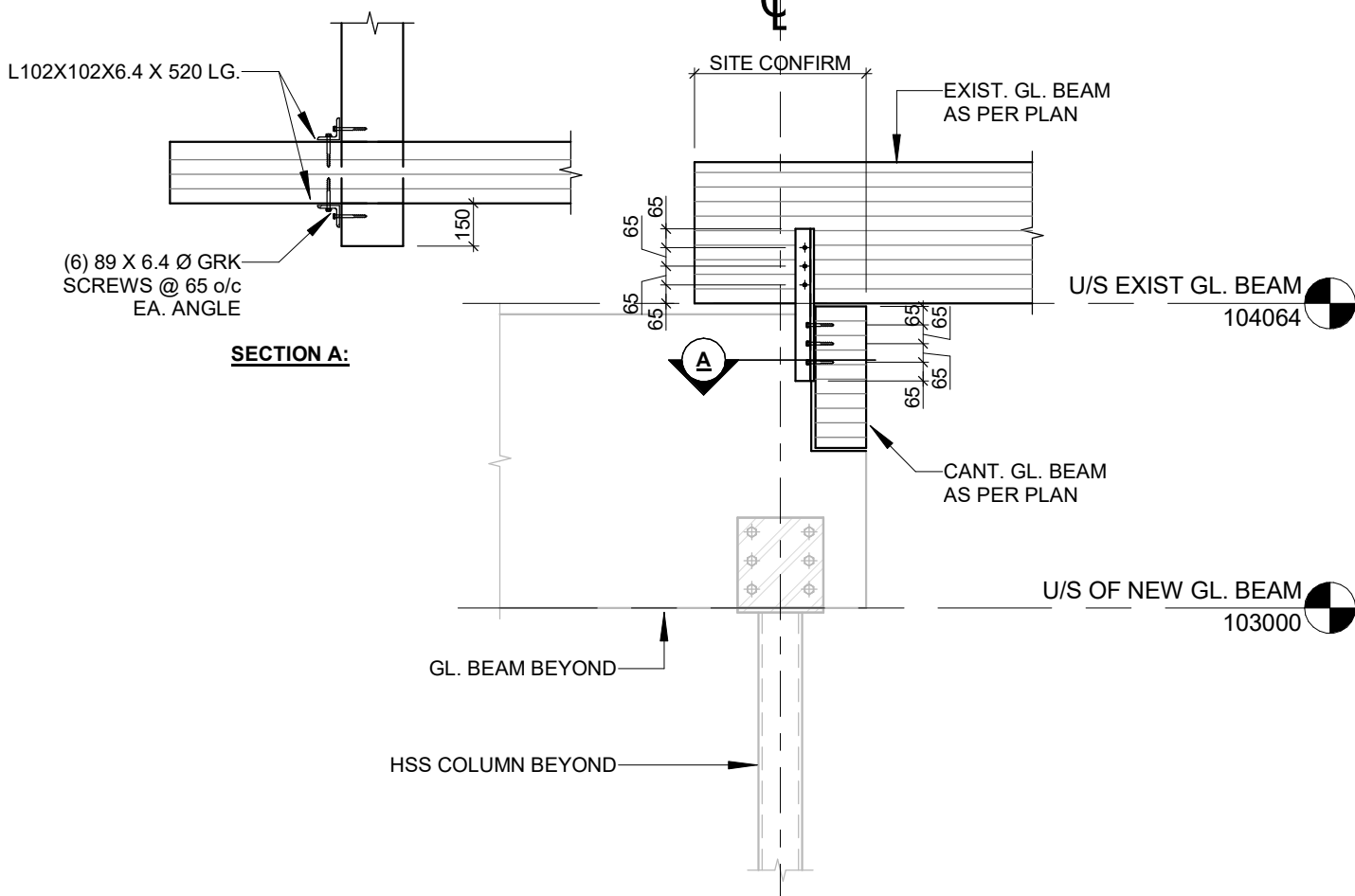
7 MID STAIR STRINGER TO COLUMN CONNECTION
S4.5 1 : 25



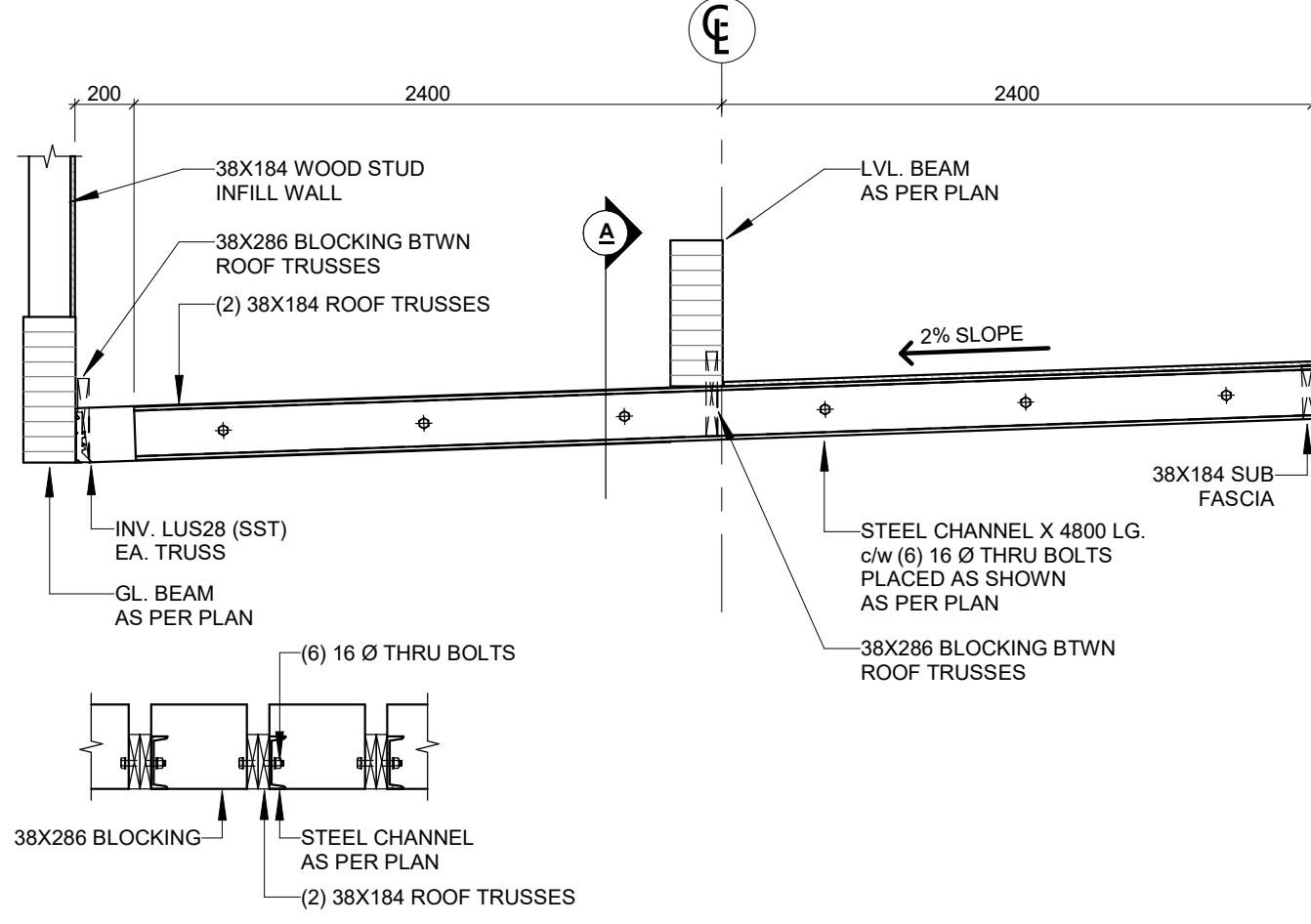
4 EXTERIOR STANDALONE WALL
S2.1 1 : 25



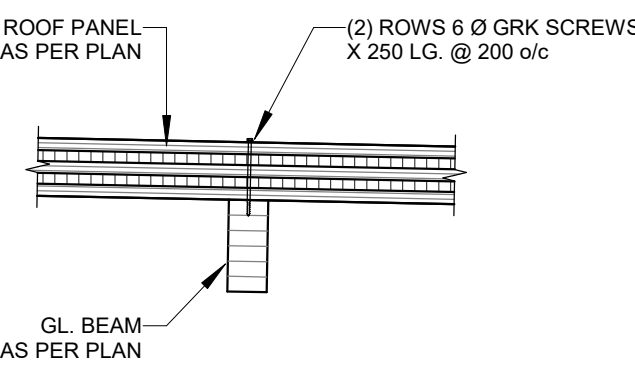
8 GLULAM BEAM NOTCH TO SUPPORT GLULAM BEAM
S2.3 1 : 25



9 CANTILEVER GLULAM SUPPORT TO EXIST. BEAM
S2.3 1 : 25



10 APRON SUPPORT - TYPE 2
S2.3 1 : 25



11 CLT ROOF PANEL TO PSL CONNECTION
S4.5 1 : 25

REV.	DATE	DESCRIPTION
1	2017/02/17	ISSUED FOR COORDINATION - 60%
2	2017/04/11	ISSUED FOR TENDER
3	2017/05/04	ISSUED FOR BUILDING PERMIT
4	2017/07/19	POST TENDER ADDENDUM No. 1

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CONSULTANT

kerkhoff
Engineering Ltd.

#101 - 5622 VEDDER RD,
CHILLIWACK, BC V2R 3N1

SEAL

SMITHERS AIRPORT

6421 AIRPORT ROAD, SMITHERS, BC

MW
Inc.

DRAWN BY	KN	P: 604-558-3730	
CHECKED	TK	E: info@kerkhoffeng.ca	
SCALE	AS NOTED	DATE	2017/07/19
FILE NAME			
☐ ISSUED FOR CONSTRUCTION			
☒ ISSUED FOR TENDER			
☒ ISSUED FOR BUILDING PERMIT			
DRAWING TITLE			
SECTIONS AND DETAILS			
PROJECT		SHEET	
16-107		S4.5	
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