



PLOT DATE: March 29, 2018 TIME: 9:08 AM FULL PATH AND FILENAME: P:\RCHMP\_PROJECTS\NCCA17-0228 - RCHMP - DTF LUNCHROOM EXPANSION\500-DELU\STRUC20\_FRAMING\_PLANS\502-DWG\_PLOTS\STYLE TABLE\_PMA-STD-100.cdw

**DESIGN NOTES**

1. **DESIGN**
  1. THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE:
    - a. ALBERTA BUILDING CODE (2014)
    - b. NATIONAL BUILDING CODE OF CANADA (2010)
    - c. CSA - A438-00 "CONCRETE CONSTRUCTION FOR HOUSING AND SMALL BUILDINGS"
  2. ALL REINFORCED CONCRETE ELEMENTS HAVE BEEN DESIGNED AND OR SHALL BE CONSTRUCTED IN ACCORDANCE WITH:
    - a. CSA - A23.3-14 "DESIGN OF CONCRETE STRUCTURES"
    - b. CSA - A23.1-14 "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION"
    - c. CSA - A23.2-14 "TEST METHODS AND STANDARD PRACTICES FOR CONCRETE"
  3. ALL CONCRETE FORMWORK AND OR FALSEWORK SHALL CONFORM WITH:
    - a. CSA - 269.1 "FALSEWORK FOR CONSTRUCTION PURPOSES"
    - b. CSA - S269.2-M "ACCESS SCAFFOLDING FOR CONSTRUCTION PURPOSES"
    - c. CSA - S269.3-M "CONCRETE FORMWORK"
  5. ALL STRUCTURAL WOOD ELEMENTS HAVE BEEN DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH:
    - a. CSA - O86-14 "ENGINEERING DESIGN IN WOOD"
    - b. CSA - O325-07 (R2012) "CONSTRUCTION SHEATHING"
    - c. CSA - O122-06 (R2015) "STRUCTURAL GLUED-LAMINATED TIMBER"
    - d. CSA - O80.1-08 (R2012) "PRESERVATIVE TREATMENT OF WOOD"
    - e. CSA - S406-14 "SPECIFICATION OF PERMANENT WOOD FOUNDATIONS FOR HOUSING AND SMALL BUILDINGS"
  7. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATIONS OF REQUIRED FIRE RESISTANCE AND RATINGS.
  8. UNIT FLOOR AND ROOF LOADINGS, SOIL BEARING PRESSURES AND FOUNDATION LOADS GIVEN ON DRAWINGS ARE UNFACTORED. MEMBER FORCES GIVEN ON DRAWINGS ARE FACTORED.

2. **LATERAL LOADS ON STRUCTURAL FRAME**

THE STRUCTURE HAS BEEN DESIGNED TO RESIST THE EFFECTS OF THE WIND LOADS. THE DESIGN PARAMETERS FOR THIS LOADS ARE AS NOTED BELOW:

  - LOCATION: INNISFAIL, AB
  - DESIGN LIFESPAN: 50 YEARS

1. WIND LOADS:

WIND LOAD				FACTORS	
$Q = lw [q (C_e \times C_p \times C_g)]$				$lw = 1.25$	$q = 0.41$
	$C_e, C_g$	ULS Q (kPa)	SLS Q (kPa)	$C_e = 0.9$	
1	0.7500	0.3625	0.2200		
1E	1.1500	0.5625	0.3300		
4	-0.5500	-0.2625	-0.1600		
4E	-0.8000	-0.3875	-0.2300		

2. SEISMIC DATA:
 

INNISFAIL, AB

$S_s (0.2) = 0.10$   
 $S_s (0.5) = 0.06$   
 $S_s (1.0) = 0.03$   
 $S_s (2.0) = 0.02$   
 PGA = 0.06

3. **DEAD LOADS (SERVICE)**
  1. DEAD LOADS ARE LOADS GENERATED BY THE SELF-WEIGHT OF THE STRUCTURE.
  2. SUPERIMPOSED DEAD LOADS ARE LOADS GENERATED BY THE WEIGHT OF MECHANICAL SYSTEMS, ELECTRICAL SYSTEMS, TOPPING, PARTITIONS, AND MISCELLANEOUS LOADINGS.
  3. REFER TO NOTES ON PLANS FOR ALL LOADS APPLIED TO THE STRUCTURE.
  4. **ROOF LIVE LOADS**
    1. THE ROOF AREAS HAVE BEEN DESIGNED TO RESIST THE LEAST FAVOURABLE EFFECTS OF THE SNOW, RAIN, AND WIND LOADINGS. THE DESIGN PARAMETERS FOR THESE LOADS ARE NOTED BELOW.

2. SNOW LOAD:
  - a. THE FOLLOWING SNOW LOAD HAS BEEN CONSIDERED IN THE DESIGN OF THE ROOF AREAS.
 

SNOW LOAD		FACTORS	
$S = Is [S_s (C_b \times C_w \times C_s \times C_a) + S_r]$		$Is = 1.25$	$S_s = 1.7 \text{ kPa}$
$S = 1.825 \text{ kPa}$		$S_r = 0.1 \text{ kPa}$	$C_b = 0.8$
		$C_w = 1.0$	$C_s = 1.0$
		$Ca = 1.0$	

- b. ADDITIONAL SNOW ACCUMULATION ADJACENT TO HIGHER WALLS, ROOFS, AND MECHANICAL UNITS IS INDICATED ON PLANS.
3. RAIN LOAD:
  - a. THE DESIGN OF THE ROOF STRUCTURE IS BASED ON THE ASSUMPTION THAT THE FLOOR CONTROL ROOF DRAINS SATISFY ALL REQUIREMENTS OF THE NATIONAL PLUMBING CODE OF CANADA, 2010 EDITION.
  - b. THE TOTAL RAIN LOAD APPLIED OVER THE HORIZONTAL PROJECTION OF THE SURFACE SHALL BE THE LESSER OF EITHER THE ONE-DAY RAINFALL OR A DEPTH OF RAINWATER EQUAL TO 30 mm ABOVE THE LEVEL OF THE SCUPPERS
 

ONE-DAY RAINFALL = 95 mm ( $\theta_{50}$  yr)  
 DESIGN RAIN LOAD = 95 mm

4. WIND UPLIFT ON ROOFS:
  - a. ROOF ELEMENTS (TRUSSES, JOISTS, DECK, BEAMS, ETC) AND THEIR CONNECTIONS TO THE STRUCTURE ARE TO BE DESIGNED FOR THE UPWARD SUCTION OF 0.9 KPA DUE TO WIND.
5. LIVE AND OTHER LOADS:
  - a. SEE NOTES ON FLOOR PLANS. ALL VALUES GIVEN ARE UNFACTORED LOADS UNLESS OTHERWISE SHOWN ON PLAN.

5. **GEOTECHNICAL INFORMATION**
  1. A GEOTECHNICAL REPORT WAS NOT AVAILABLE AT THE TIME OF DESIGN. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL GEOTECHNICAL ENGINEER WHO SHALL BE RESPONSIBLE FOR CONDUCTING ALL NECESSARY INVESTIGATION S AND DESIGN TO SUIT THE PROJECT REQUIREMENTS.
6. **PROVISIONS FOR FUTURE EXTENSIONS**
  1. THE STRUCTURE HAS NOT BEEN DESIGNED FOR ANY FUTURE EXTENSIONS.

DATE	ISSUED FOR	REV
2018-02-07	ISSUED FOR 60% REVIEW	
2018-02-14	ISSUED FOR DP	
2018-03-02	ISSUED FOR 95% REVIEW	
2018-03-29	ISSUED FOR TENDER	

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Project Component
<b>LUNCHROOM EXPANSION</b>
Keyplan

Consultants
Architectural: NORR Architects Engineers Planners Structural: NORR Architects Engineers Planners Mechanical: NORR Architects Engineers Planners Electrical: NORR Architects Engineers Planners

Seal(s)
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Project Manager	Drawn
D. HIDER	
Project Leader	Checked
D. HIDER	A. TODEILA
Client	
<b>RCMP</b>	

Project  
**INNISFAIL PDSTC  
 LUNCHROOM EXPANSION**

Drawing Title  
**GENERAL NOTES**

Check Scale (may be photo reduced)	0 1inch 0 10mm
Project No.	NCCA17-0228
Drawing No.	S-02



**MINIMUM EMBEDMENT LENGTHS FOR DEFORMED BARS (Fy = 460 MPa) TDC-37**

BAR SIZE	TENSION, Ld (CLASS A)										COMPRESSION			
	F <sub>c</sub> =35MPa		F <sub>c</sub> =40MPa		F <sub>c</sub> =45MPa		F <sub>c</sub> =50MPa		F <sub>c</sub> =55MPa		F <sub>c</sub> =35MPa	F <sub>c</sub> =40MPa	F <sub>c</sub> =45MPa	F <sub>c</sub> =50MPa & 55MPa
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS				
T8	420	320	390	300	360	300	350	300	330	300	200	200	200	200
T10	530	410	490	380	460	350	430	330	410	310	200	200	200	200
T12	630	490	580	450	550	420	520	400	490	380	250	250	250	250
T16	840	650	780	600	730	560	690	530	650	500	330	320	320	320
T20	1050	810	970	750	910	700	860	660	820	630	410	400	400	400
T25	1640	1260	1520	1170	1420	1100	1340	1030	1270	980	510	500	500	500
T32	2100	1620	1950	1500	1820	1400	1720	1320	1630	1250	650	640	640	640
T40	2630	2020	2440	1870	2280	1750	2150	1650	2040	1570	810	800	800	800

**NOTES:**

- TOP BARS ARE HORIZONTAL BARS LOCATED SUCH THAT MORE THAN 300mm OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR (EQ. TOP BARS OF BEAMS AND SLABS DEEPER THAN 300mm AND HORIZONTAL WALL REINFORCING).
- UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, COMPRESSION EMBEDMENT SHALL BE PROVIDED FOR COLUMN BARS ONLY AND TENSION EMBEDMENT FOR ALL OTHER REINFORCEMENT.
- BAR SPLICE (LAP) LENGTHS SHOWN ARE BASED ON ACI-318-02 CL.12.2.2 AND 12.3 RESPECTIVELY.

**MINIMUM LAP LENGTHS FOR DEFORMED BARS (Fy = 400 MPa) TDC-38**

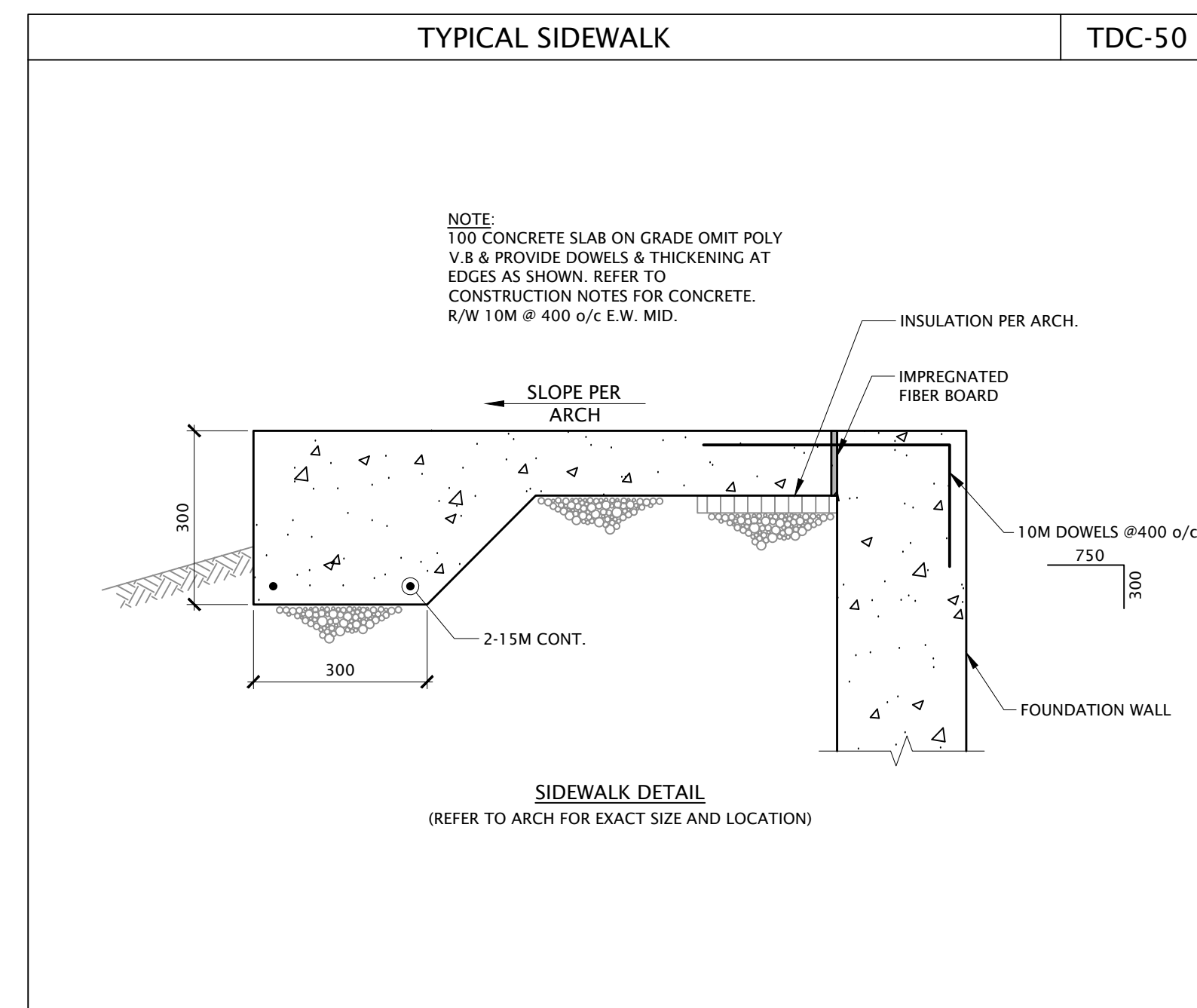
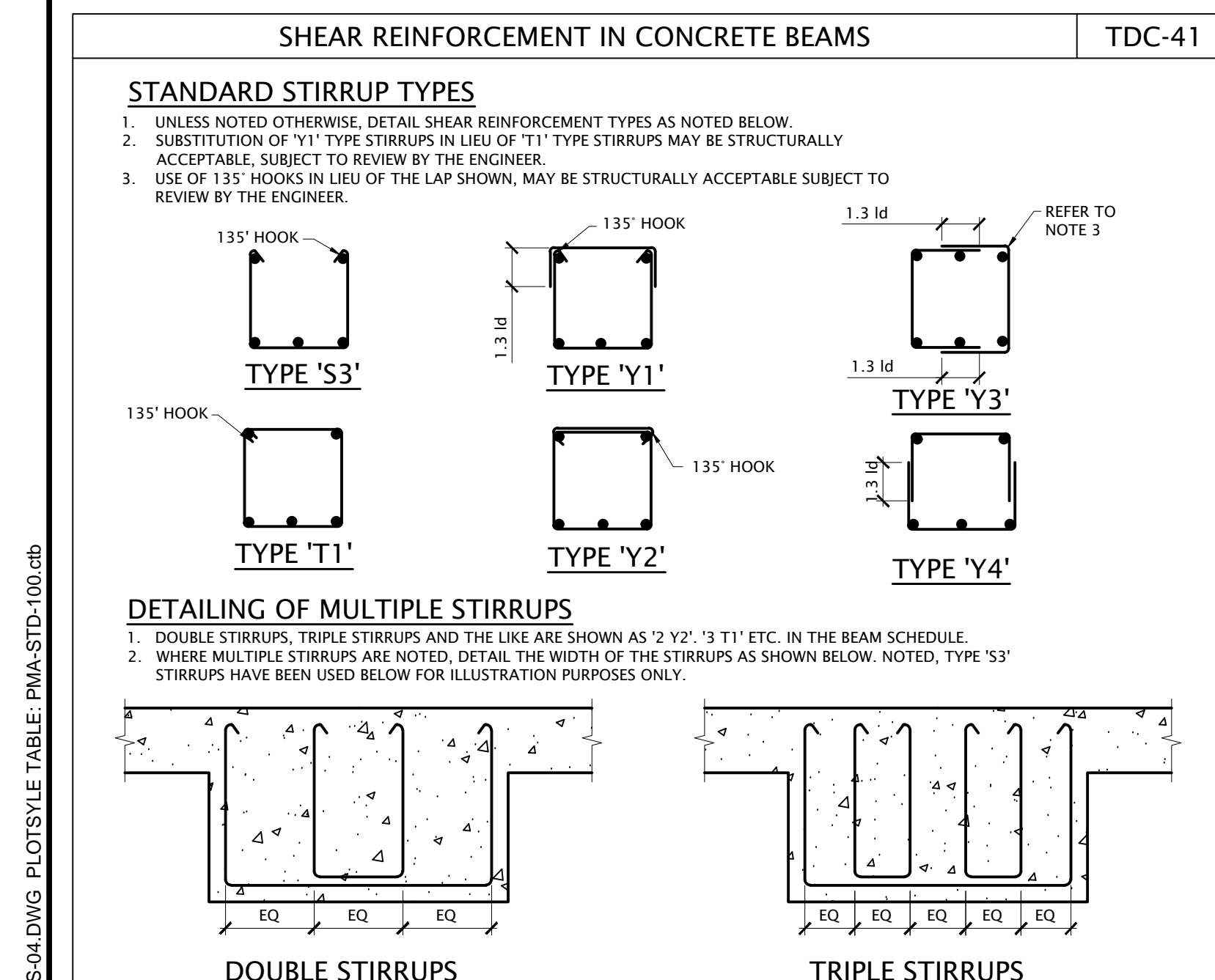
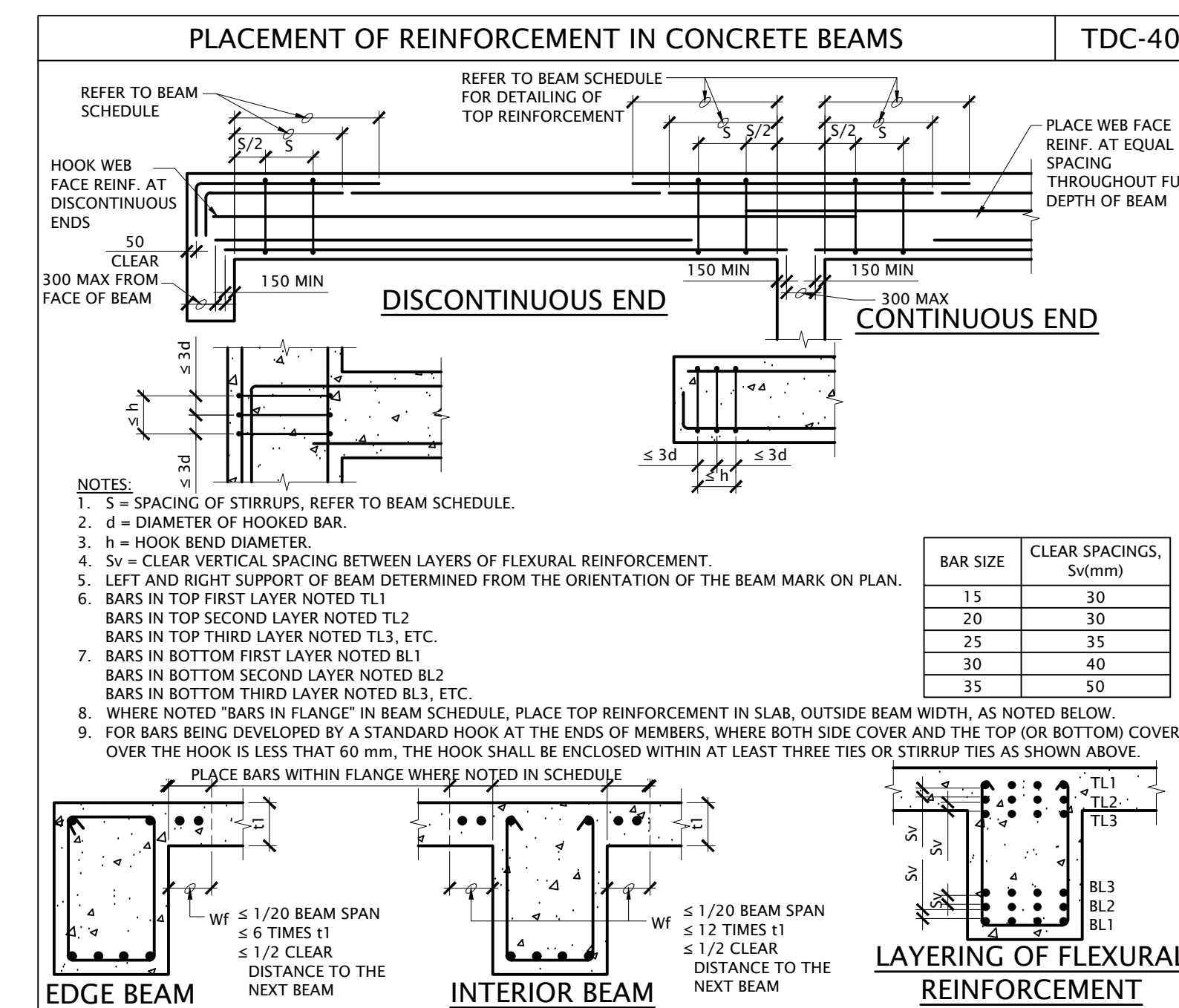
BAR SIZE	TENSION (CLASS B)										COMPRESSION		
	F <sub>c</sub> =35MPa		F <sub>c</sub> =40MPa		F <sub>c</sub> =45MPa		F <sub>c</sub> =50MPa		F <sub>c</sub> =55MPa		F <sub>c</sub> ≥25MPa		
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	REGULAR LAPS	COLUMN W/TIES	COLUMN W/SPIRALS
T8	550	420	510	390	470	360	450	350	420	330	300	300	300
T10	680	530	630	490	590	460	560	430	530	410	370	300	300
T12	820	630	760	580	710	550	670	520	640	490	440	360	330
T16	1090	840	1010	780	950	730	890	690	850	650	580	480	440
T20	1370	1050	1270	970	1180	910	1120	860	1060	820	730	600	550
T25	2140	1640	1980	1520	1850	1420	1750	1340	1660	1270	910	750	680
T32	2740	2100	2530	1950	2370	1820	2230	1720	2120	1630	1160	960	870
T40	-	-	-	-	-	-	-	-	-	-	1450	1200	1090

**NOTES:**

- TOP BARS ARE HORIZONTAL BARS LOCATED SUCH THAT MORE THAN 300 mm OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR (EQ. TOP BARS OF BEAMS AND SLABS DEEPER THAN 300 mm AND HORIZONTAL WALL REINFORCING).
- UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, COMPRESSION EMBEDMENT SHALL BE PROVIDED FOR COLUMN BARS ONLY AND TENSION EMBEDMENT FOR ALL OTHER REINFORCEMENT.
- BAR SPLICE (LAP) LENGTHS SHOWN ARE BASED ON ACI-318-02 CL.12.15 AND 12.16 RESPECTIVELY.

**REINFORCING STEEL BAR AND STANDARD HOOK DIMENSIONS FOR DEFORMED BARS (Fy = 460 MPa) TDC-39**

BAR SIZE	MASS kg/m	DIA. d	AREA mm <sup>2</sup>	STANDARD HOOK BEND D	STIRRUP AND TIE HOOKS (90°)			
					A			
					90°	180°		
T8	0.395	8	50	50	130	120	30	85
T10	0.617	10	79	60	160	130	40	90
T12	0.888	12	113	70	190	150	50	110
T16	1.580	16	201	95	260	180	65	145
T20	2.47	20	314	120	320	220		
T25	3.86	25	491	150	400	280		
T32	6.31	32	804	260	550	420		
T40	9.87	40	1257	400	720	640		

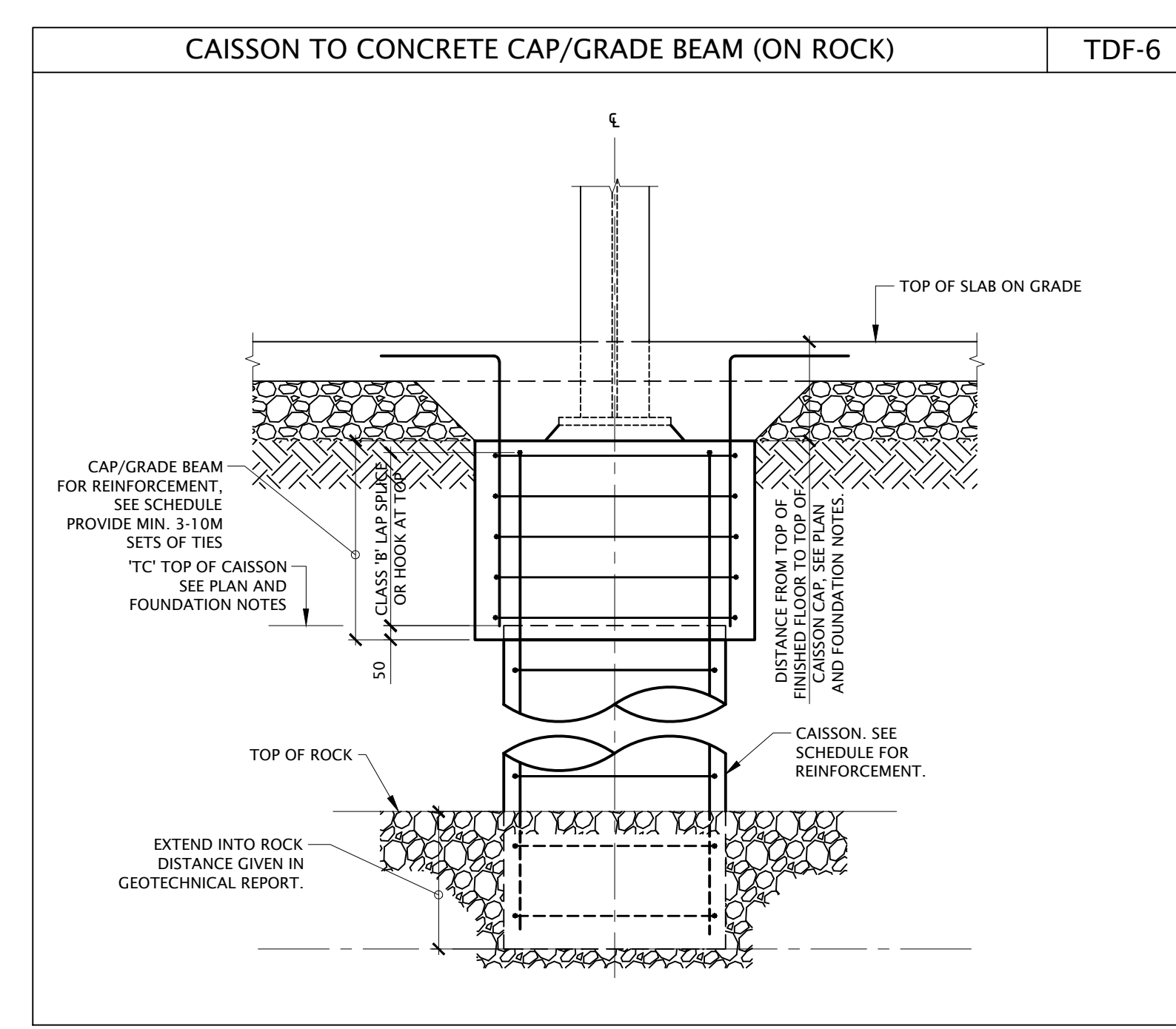
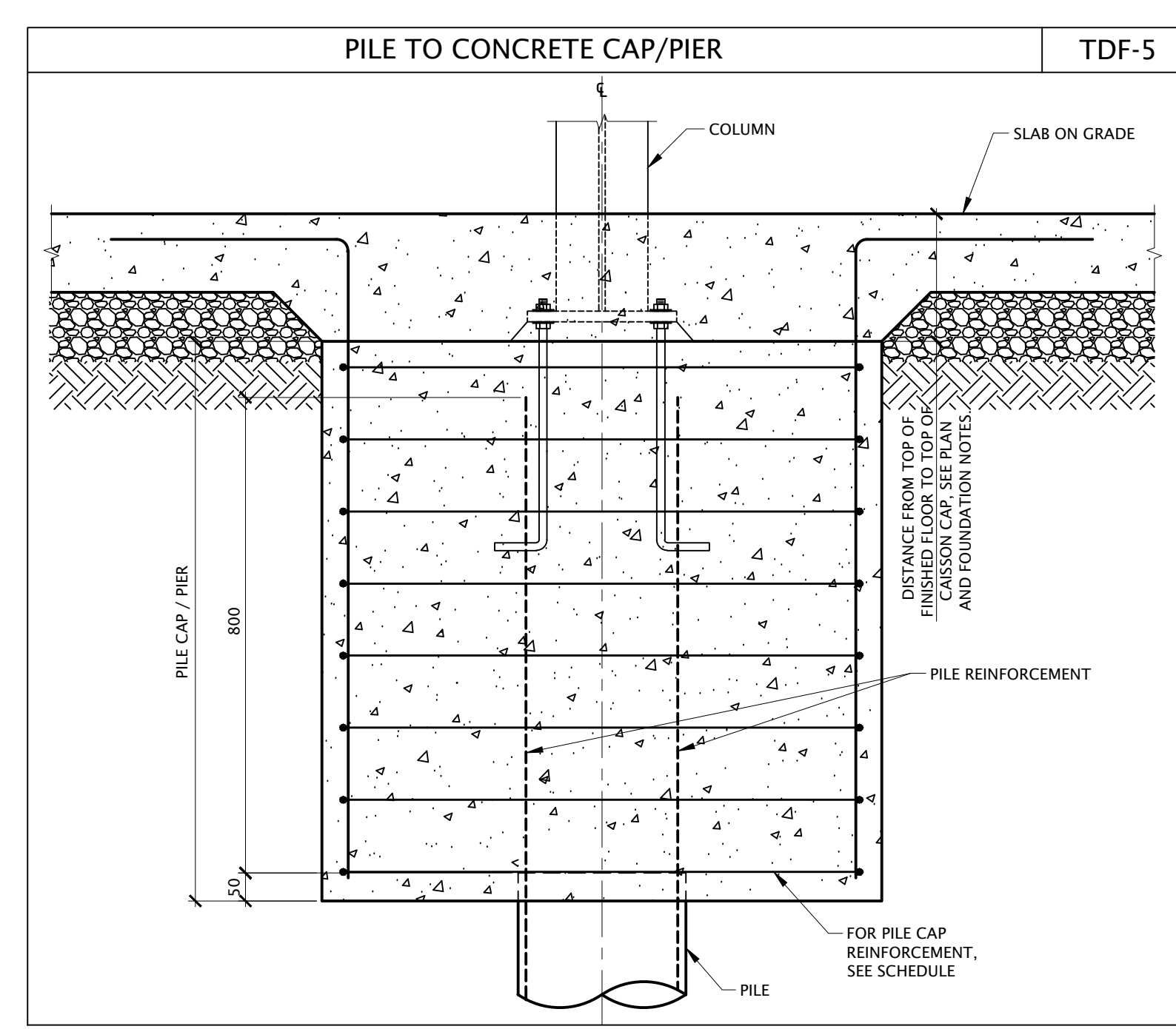
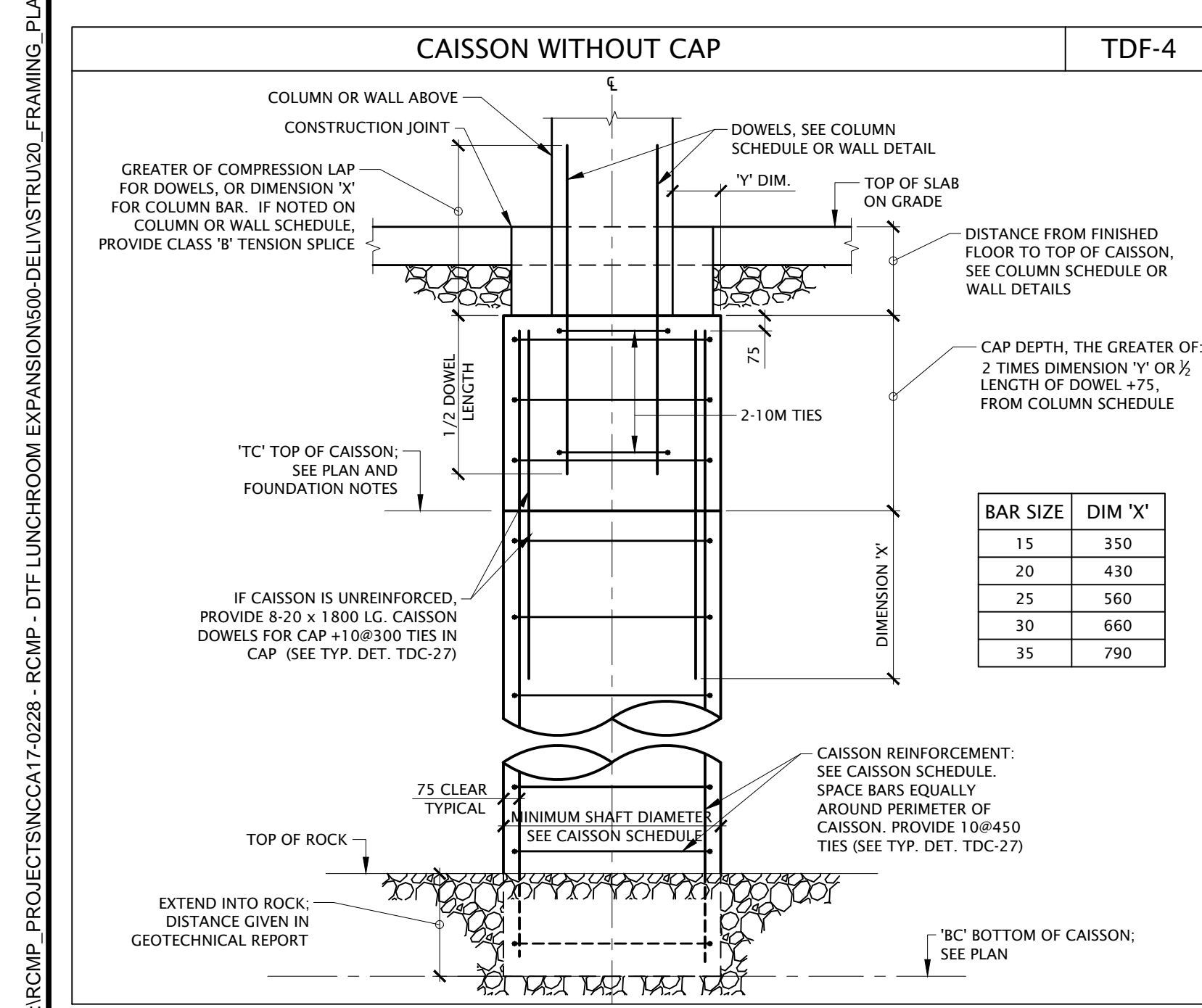


**HOOK DEVELOPMENT LENGTH TDC-58**

**VALUES OF HOOK BASIC DEVELOPMENT LENGTH FOR GRADE 400 BARS**

BAR NO.	x' (mm)	h <sub>db</sub> (mm)				
		20	25	30	35	40
10M	45	253	226	206	191	179
15M	65	358	320	292	270	253
20M	80	436	390	356	330	308
25M	100	563	504	460	426	398
30M	155	669	598	546	505	473
35M	185	798	714	652	603	565
45M	270	977	874	798	739	691
55M	355	1261	1128	1030	953	892

\* x = BEND RADIUS + d<sub>b</sub> (VALUES GIVEN ARE FOR BEND RADI FOR GRADE 400 R STEEL)



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**Project Component**  
LUNCHROOM EXPANSION

**Keyplan**

**Consultants**

Architectural: NORR Architects Engineers Planners  
Structural: NORR Architects Engineers Planners  
Mechanical: NORR Architects Engineers Planners  
Electrical: NORR Architects Engineers Planners

**Seal(s)**

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Julian Todor, P. Eng., P.E.G.A.  
Christine P. King, P.E.G.A.

Project Manager	Drawn
D. HIDER	
D. HIDER	Checked A. TODILA

Client  
**RCMP**

Project  
**INNISFAIL PDSTC LUNCHROOM EXPANSION**

Drawing Title  
**TYPICAL DETAILS**

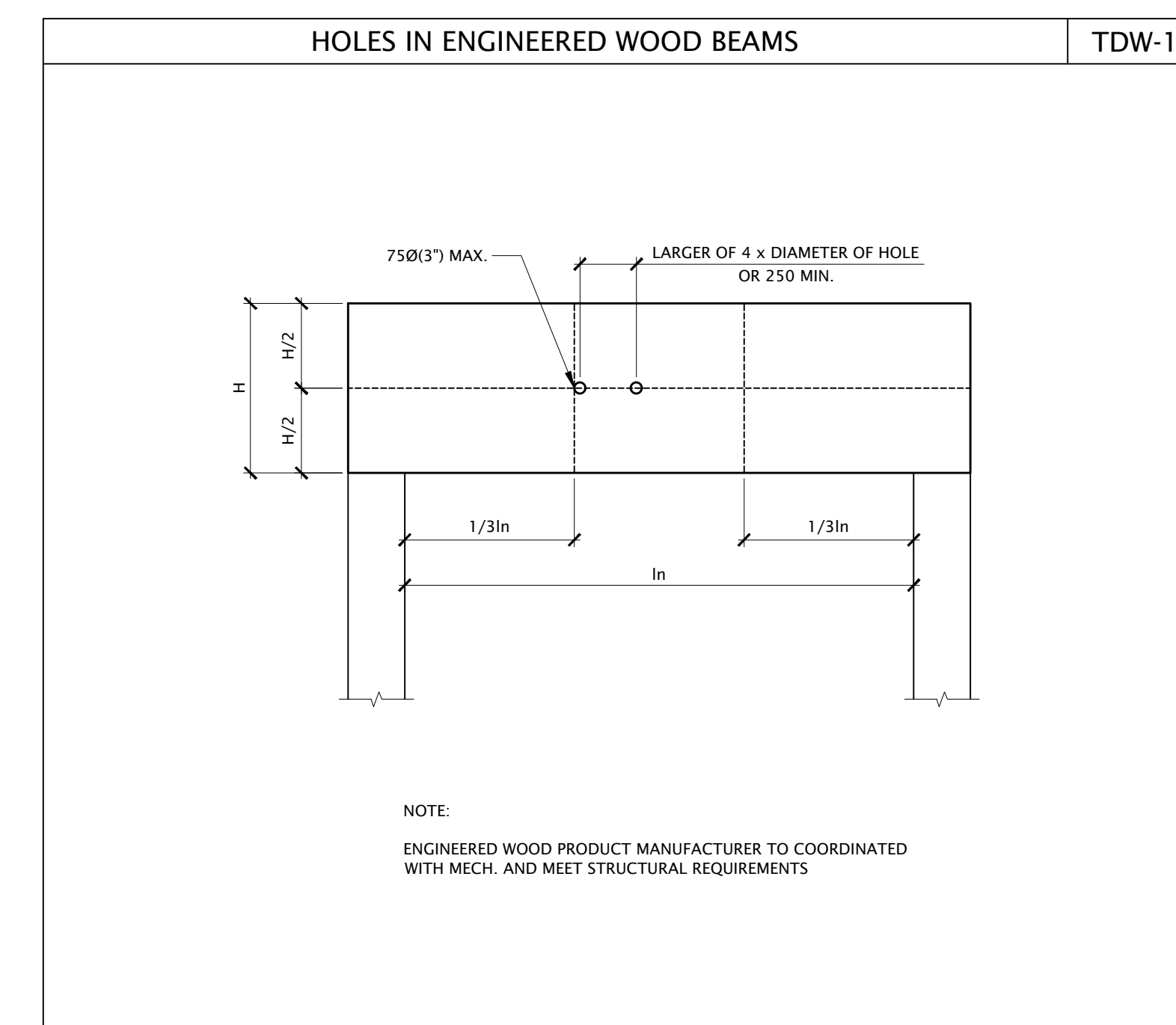
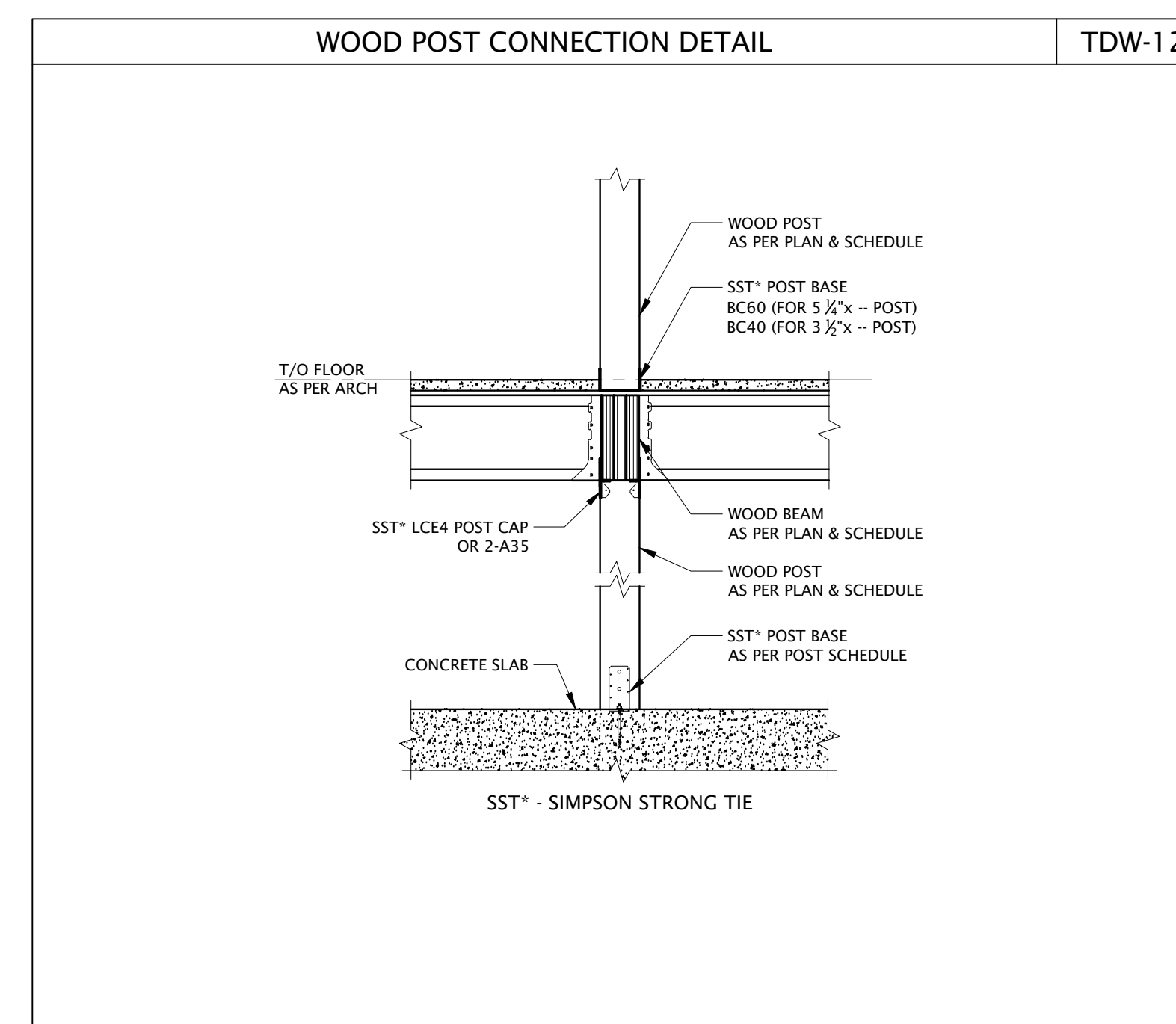
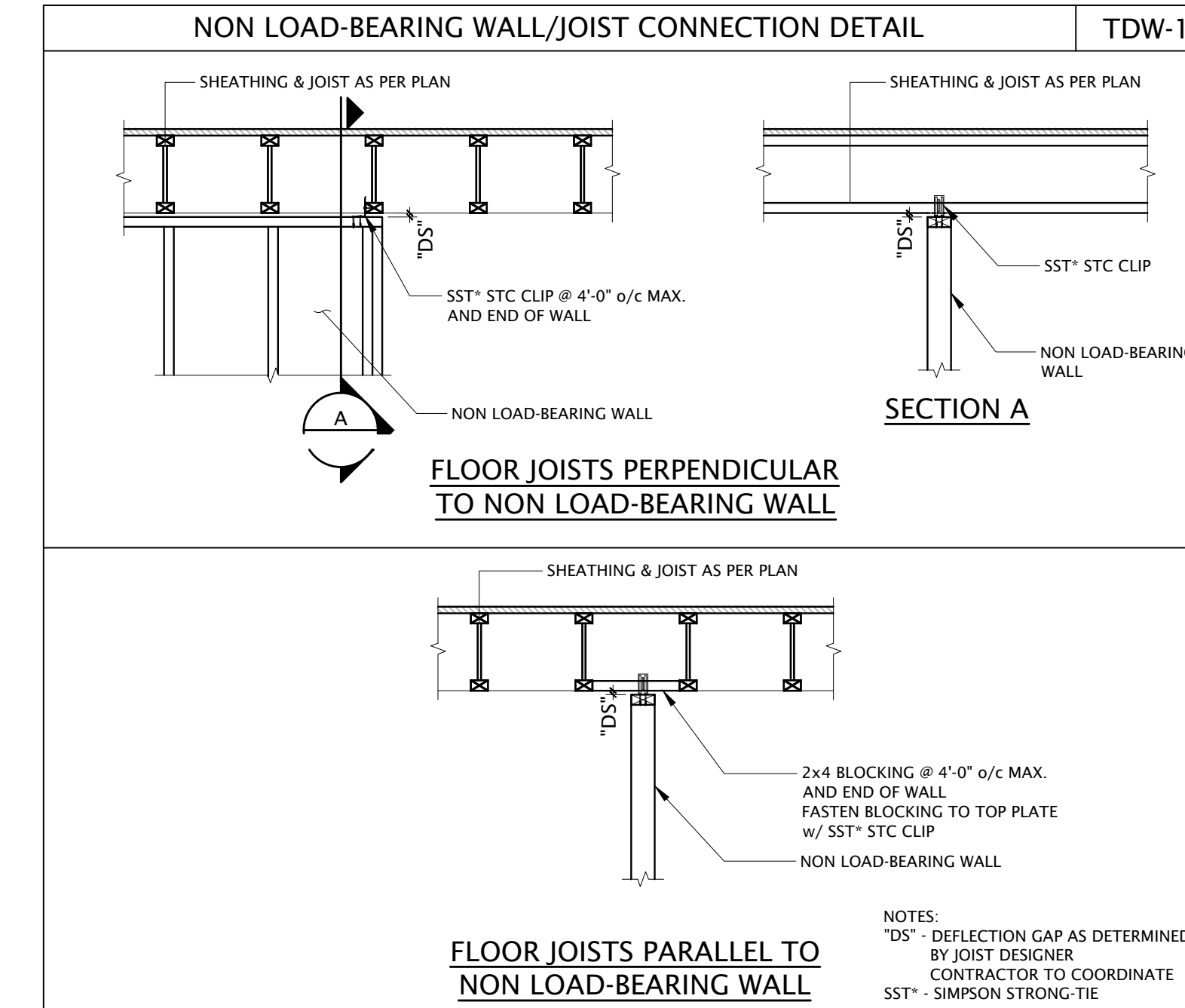
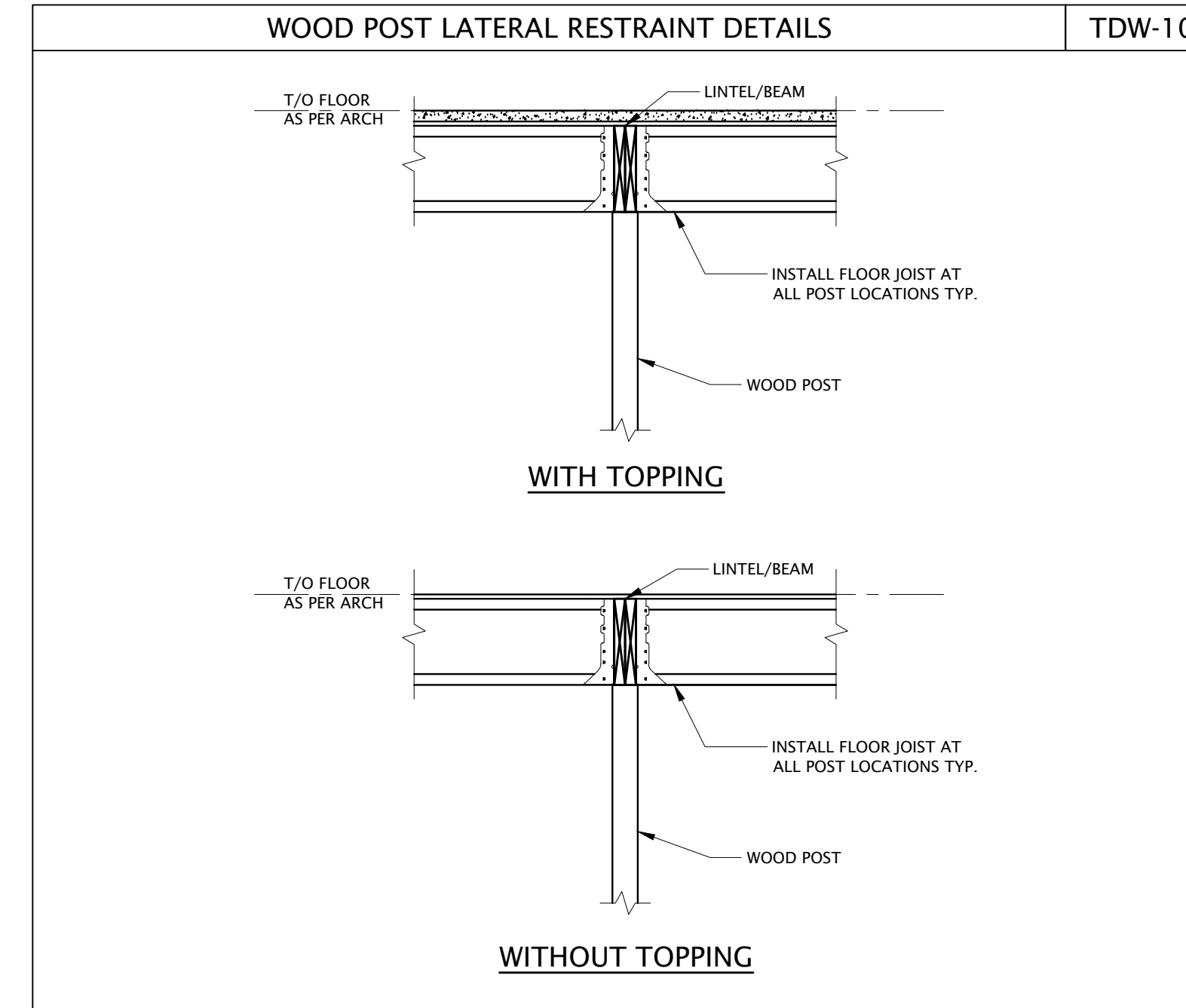
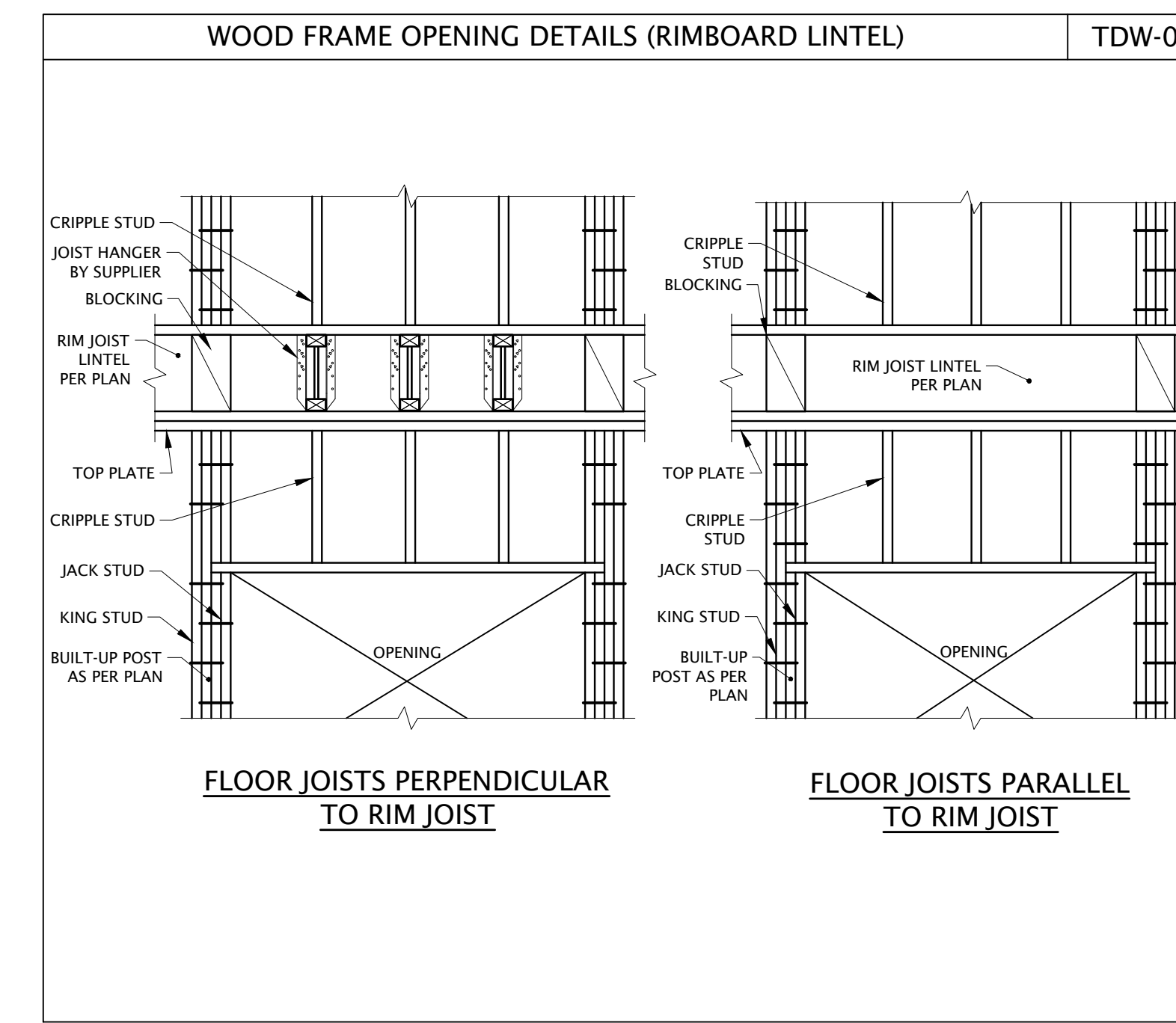
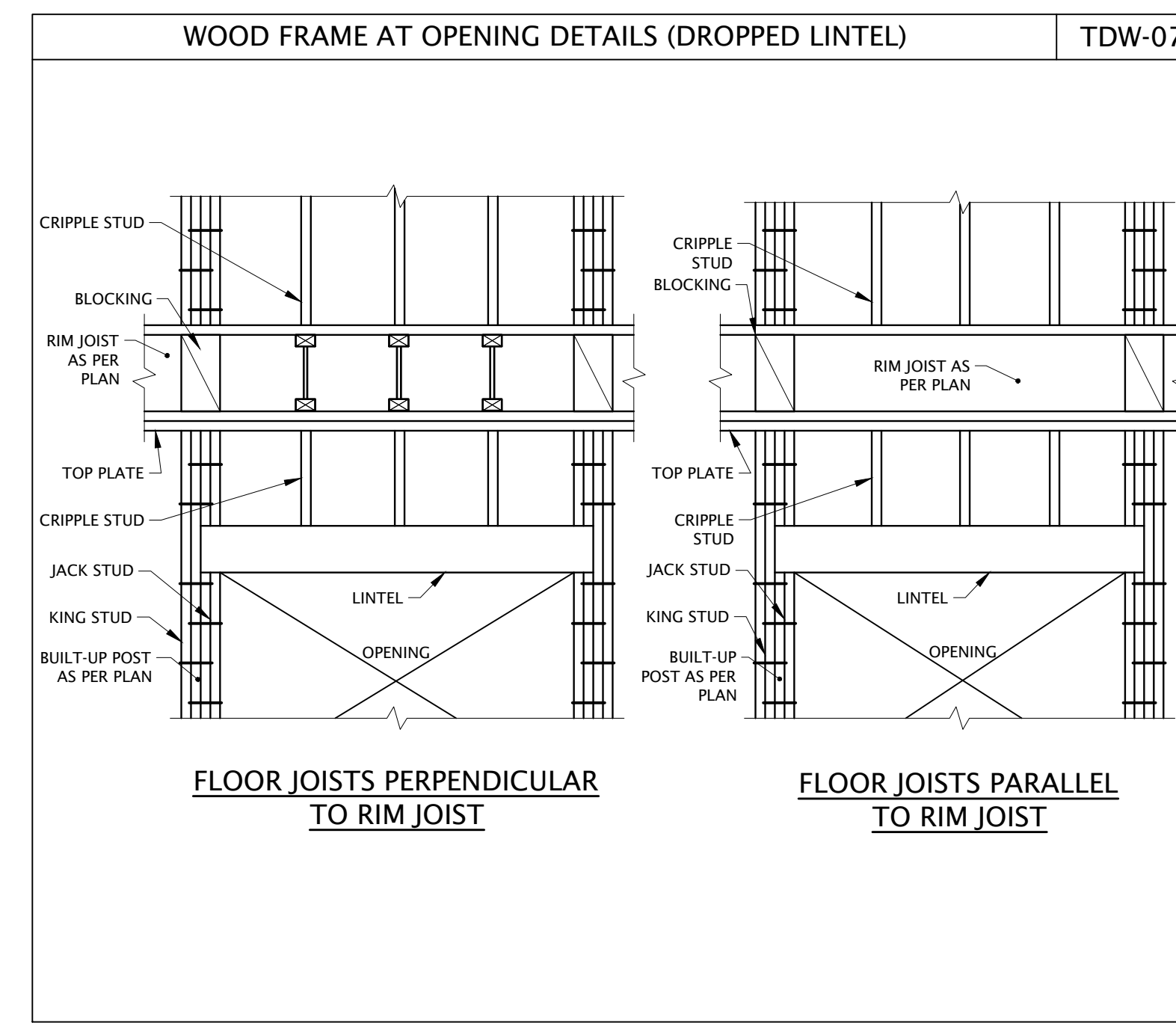
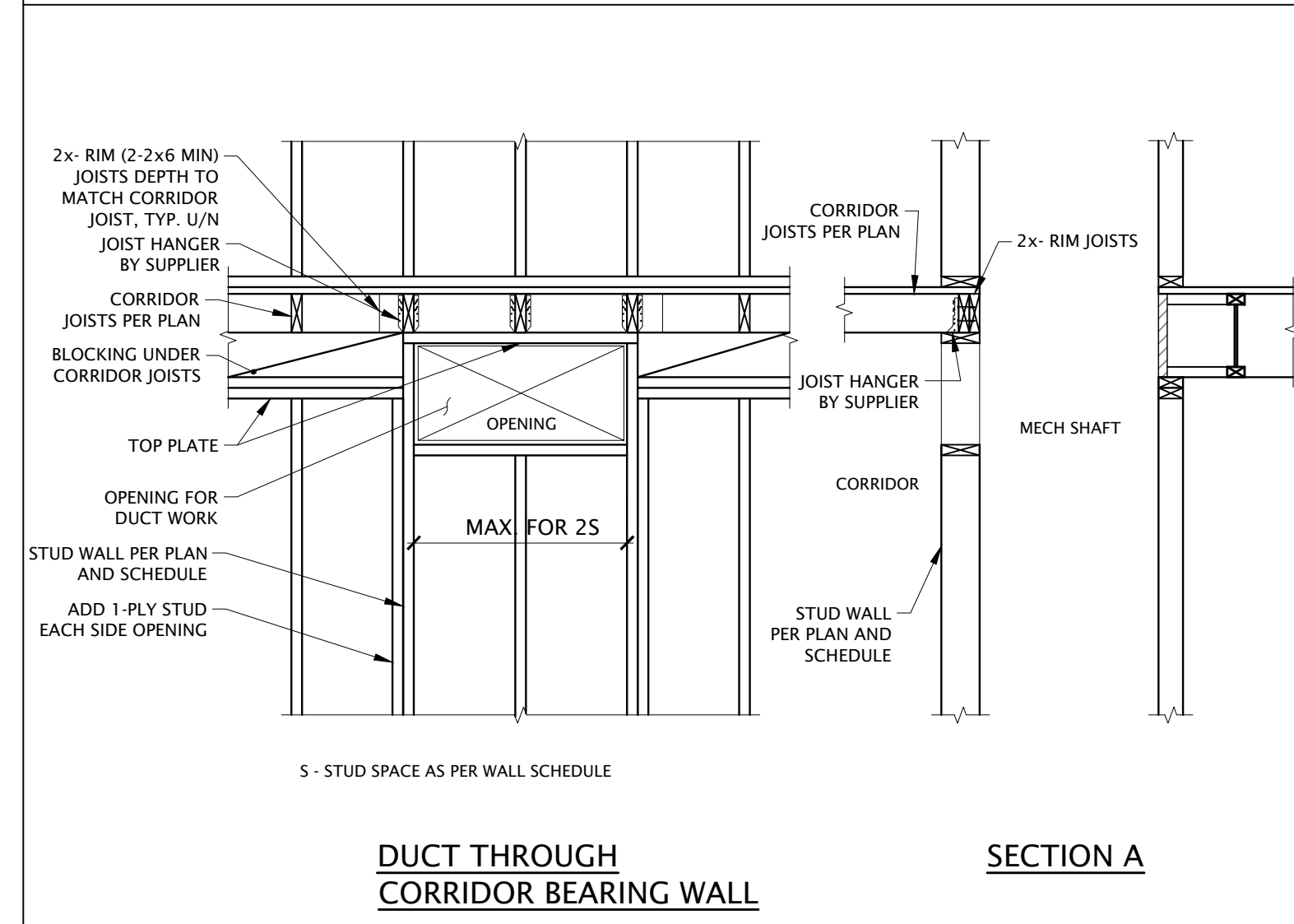
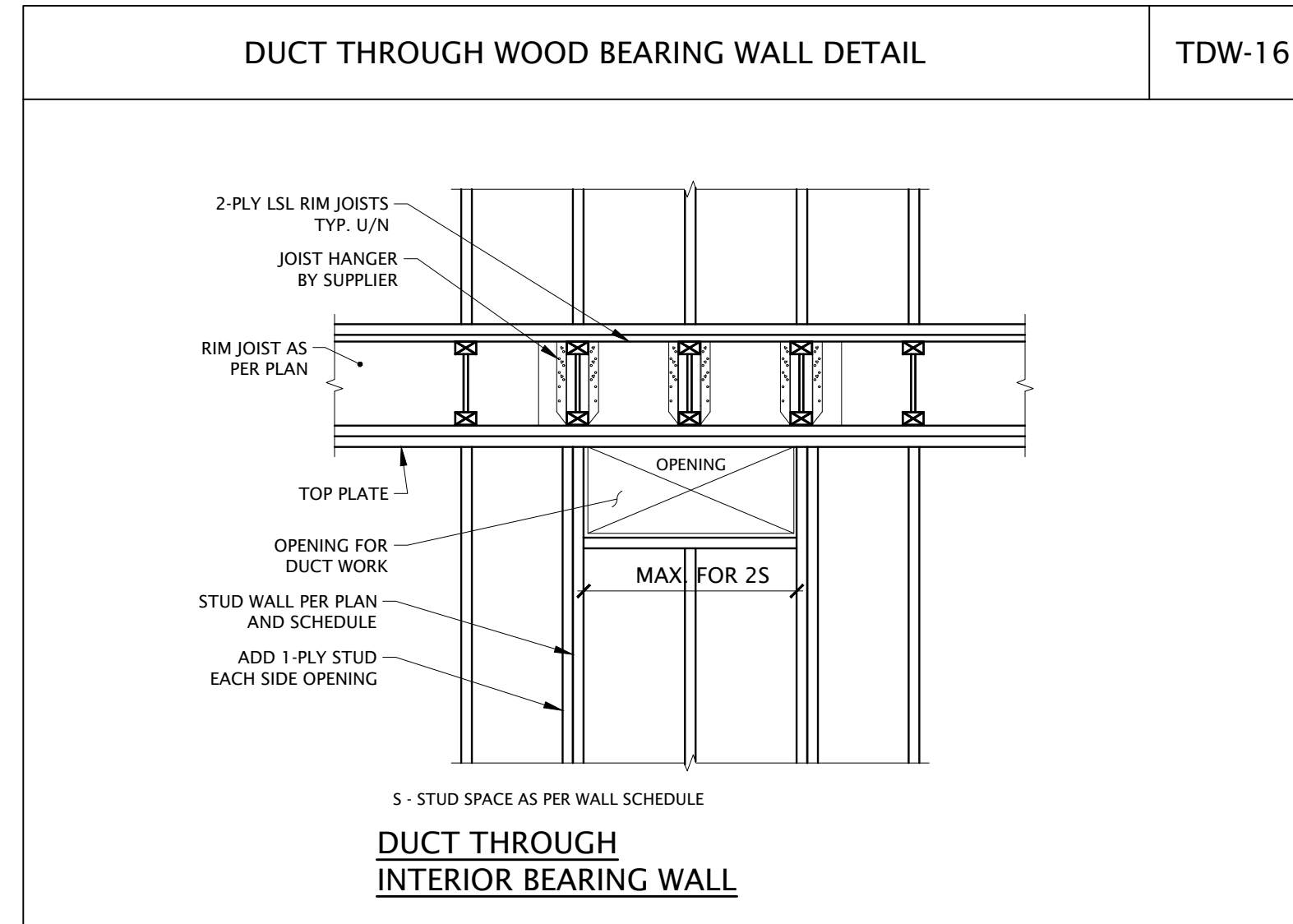
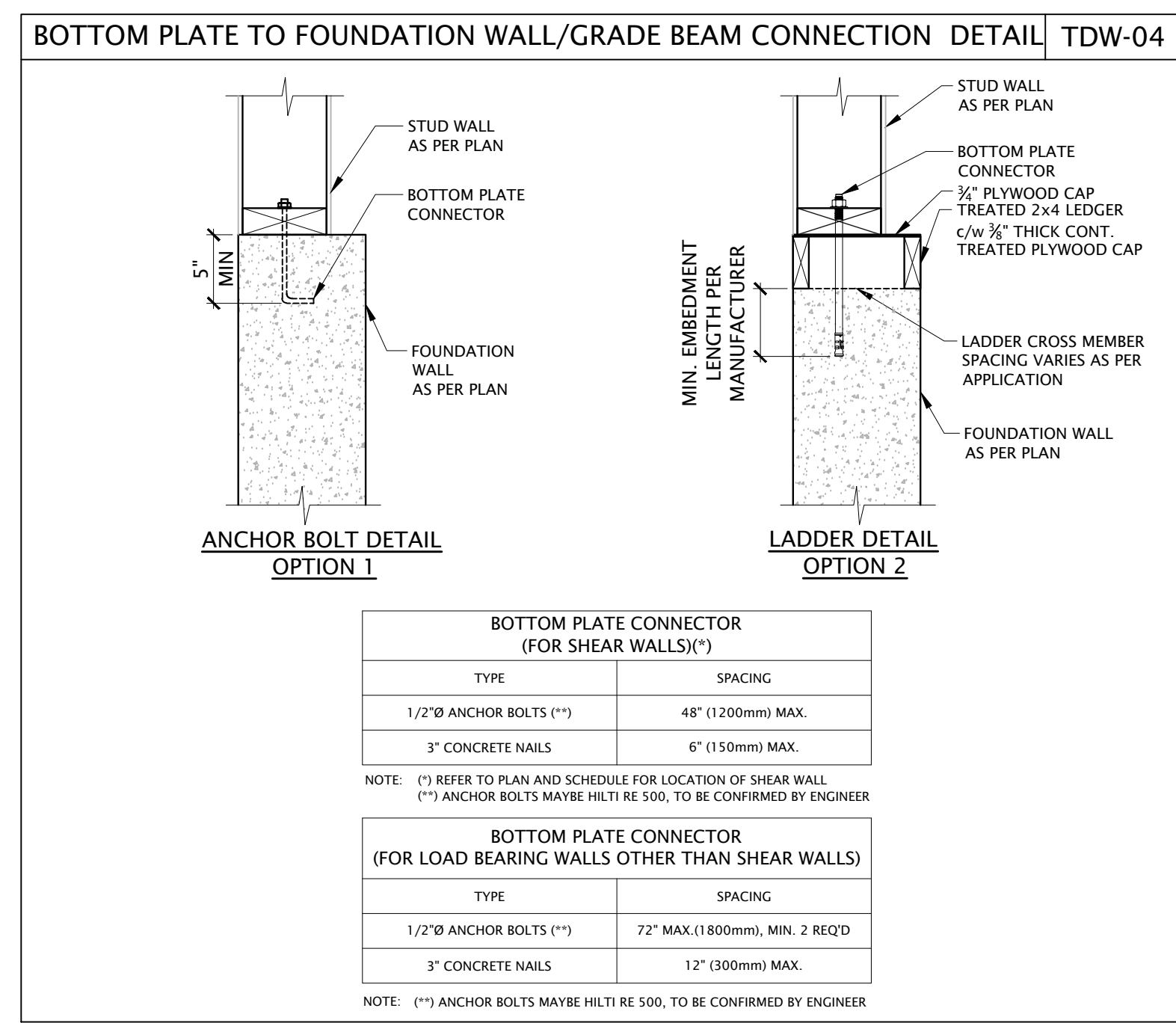
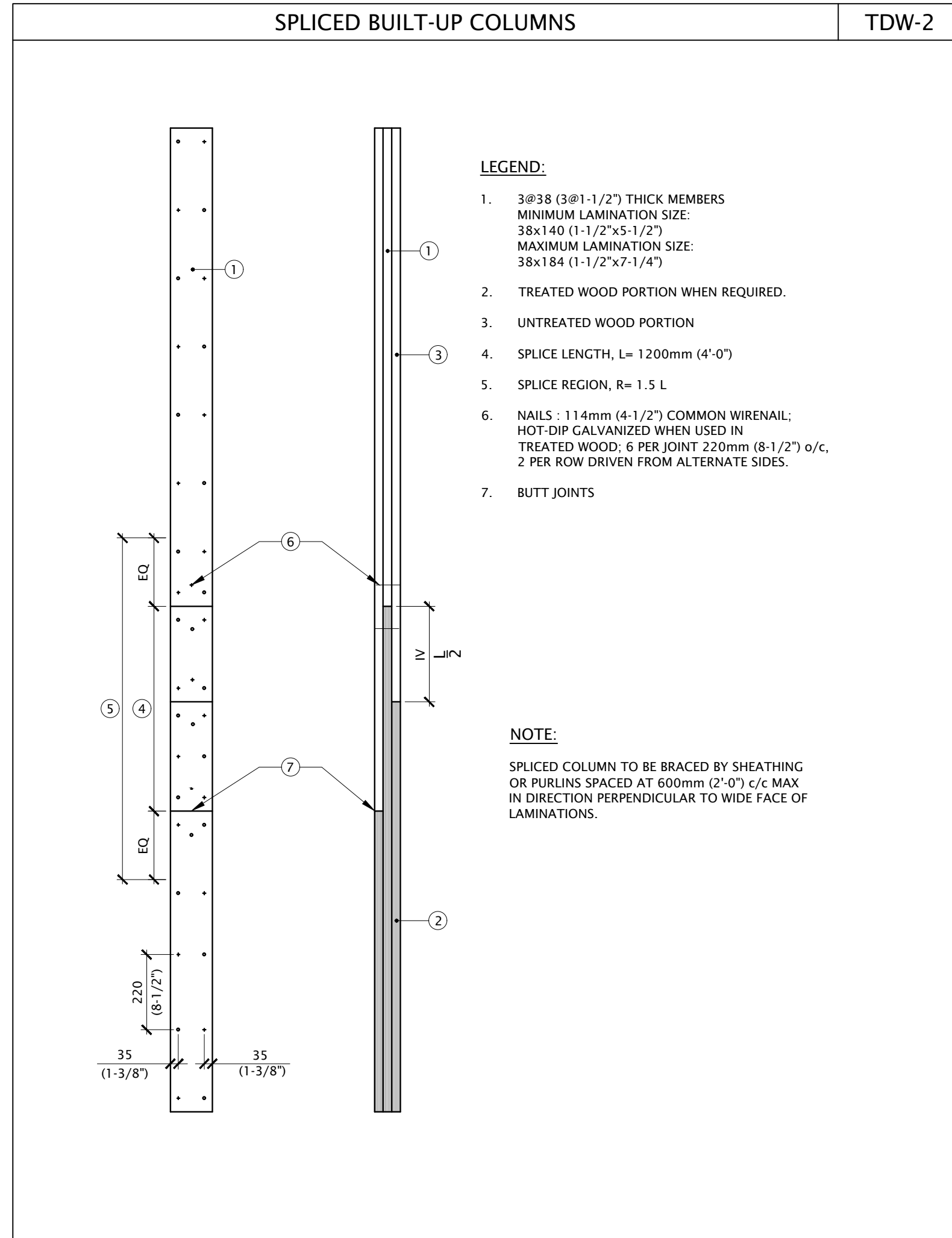
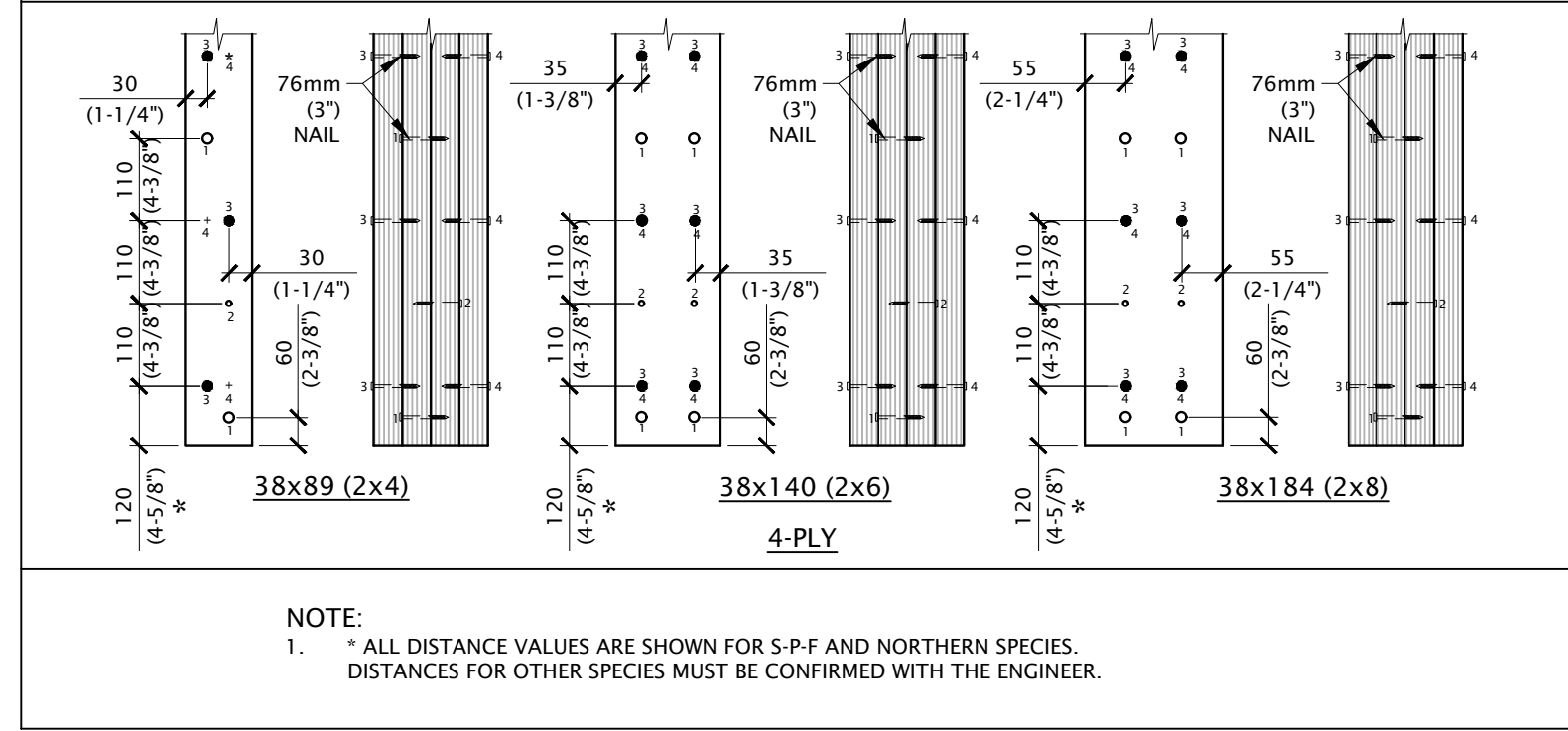
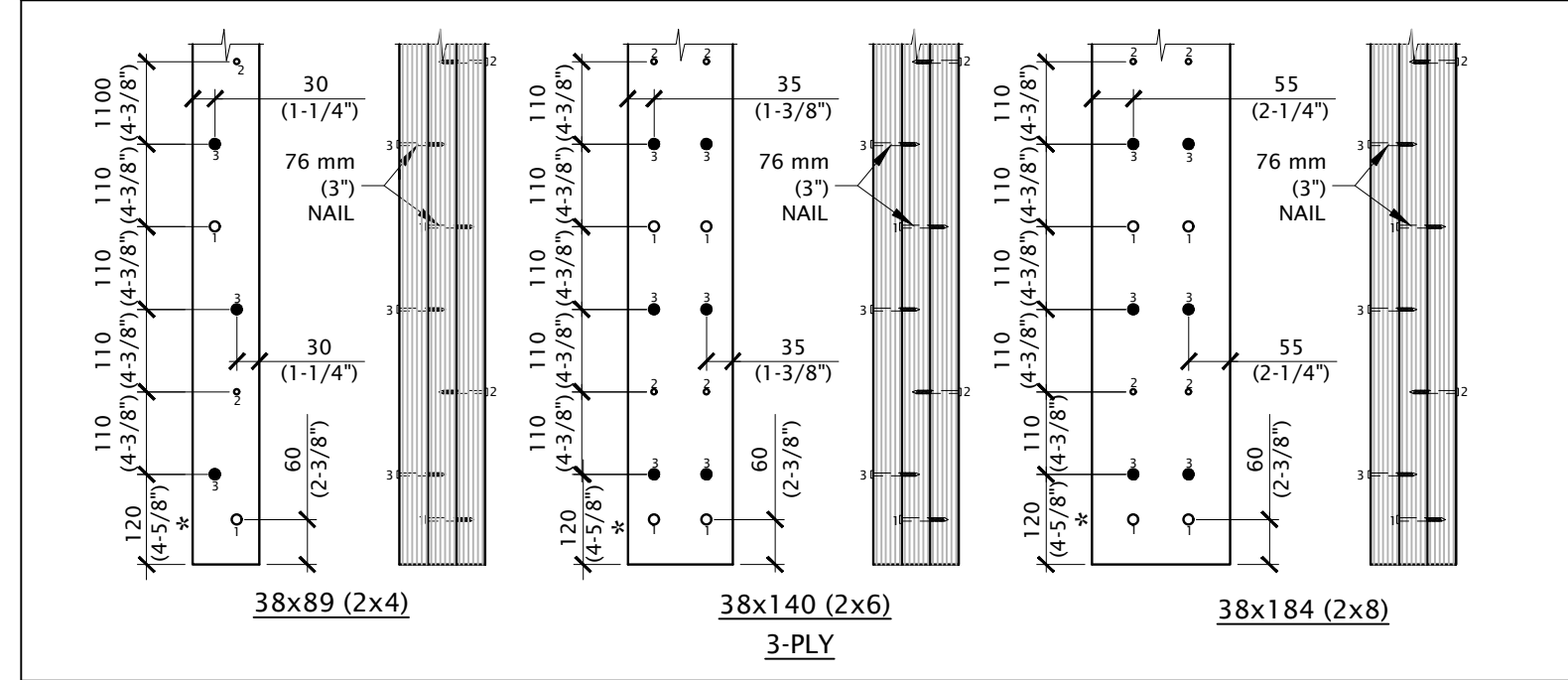
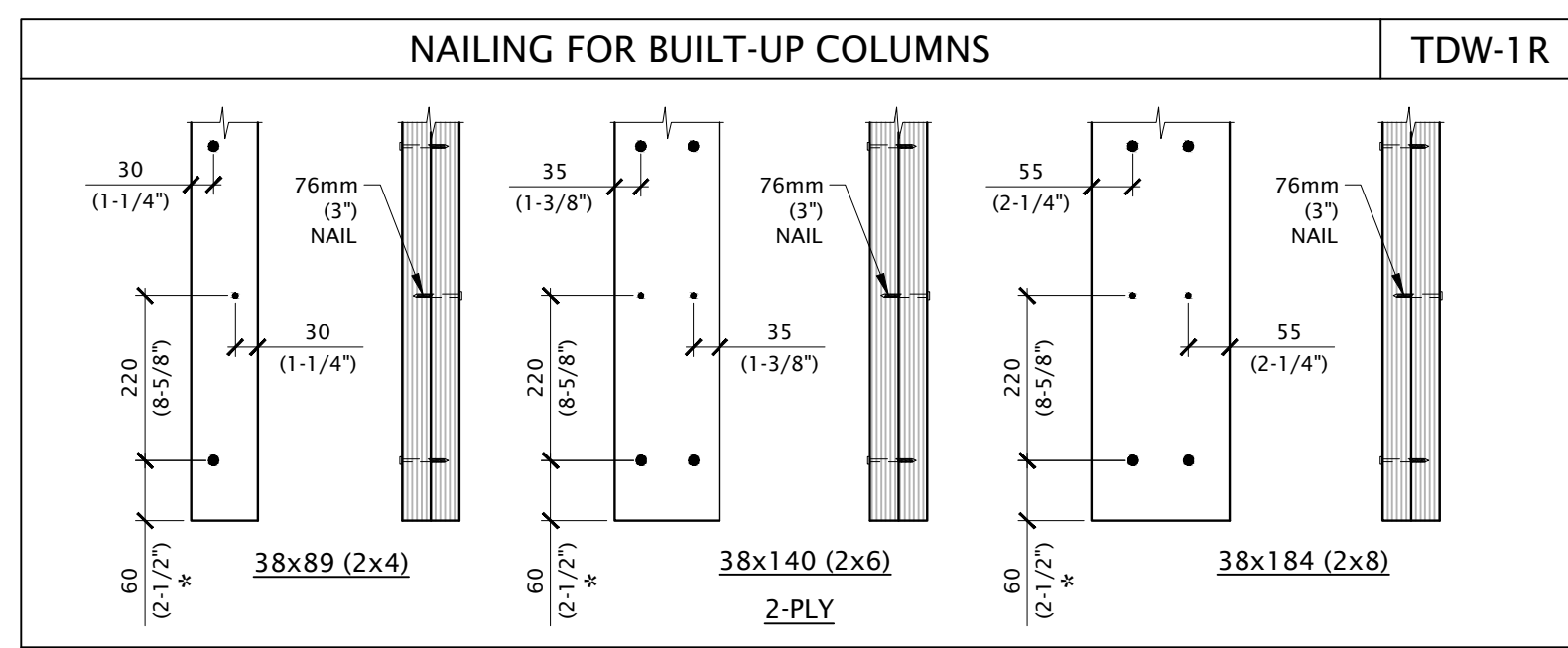
Check Scale (may be photo reduced)  
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Project No. **NCCA17-0228**

Drawing No. **S-04**

PLOT DATE: March 29, 2018 TIME: 9:36 AM FULL PATH AND FILENAME: P:\RCMP\_PROJECTS\NCCA17-0228-RCMP-DTF LUNCHROOM EXPANSION\650-DETAILED\STRUC29\_FRAMING\_PLANS\504-DWG\_PLOTS\TYPE TABLE\_PMA-STD-100.cbr

PLOT DATE: March 29, 2018 TIME: 9:38 AM FULL PATH AND FILENAME: P:\RCMP\_PROJECTS\NCCA17-0228-RCMP-DTF LUNCHROOM EXPANSION\500-DELU\STRUC2D\_FRAMING\_PLANS\SS-05.DWG PLOTS\STYLE TABLE: PMA-STD-100.cbr



DATE	ISSUED FOR	REV
2018-02-07	ISSUED FOR 60% REVIEW	
2018-02-14	ISSUED FOR DP	
2018-03-02	ISSUED FOR 95% REVIEW	
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**Project Component**  
LUNCHROOM EXPANSION

**Keyplan**

**Consultants**

Architectural: NORR Architects Engineers Planners  
Structural: NORR Architects Engineers Planners  
Mechanical: NORR Architects Engineers Planners  
Electrical: NORR Architects Engineers Planners

**Seal(s)**

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Calgary, AB Canada T2G 4Y5  
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C. Brian Stephenson, Architect, AIA, B. Arch, M.Arch.  
Michael Taylor, P. Eng., P.E.P.E.A.  
Chris Ho, P. Eng., P.E.P.E.A.

<b>Project Manager</b> D. HIDER	<b>Drawn</b> A. TODILA
<b>Project Leader</b> D. HIDER	<b>Checked</b> A. TODILA
<b>Client</b> RCMP	

**Project**  
INNISFAIL PDSTC LUNCHROOM EXPANSION

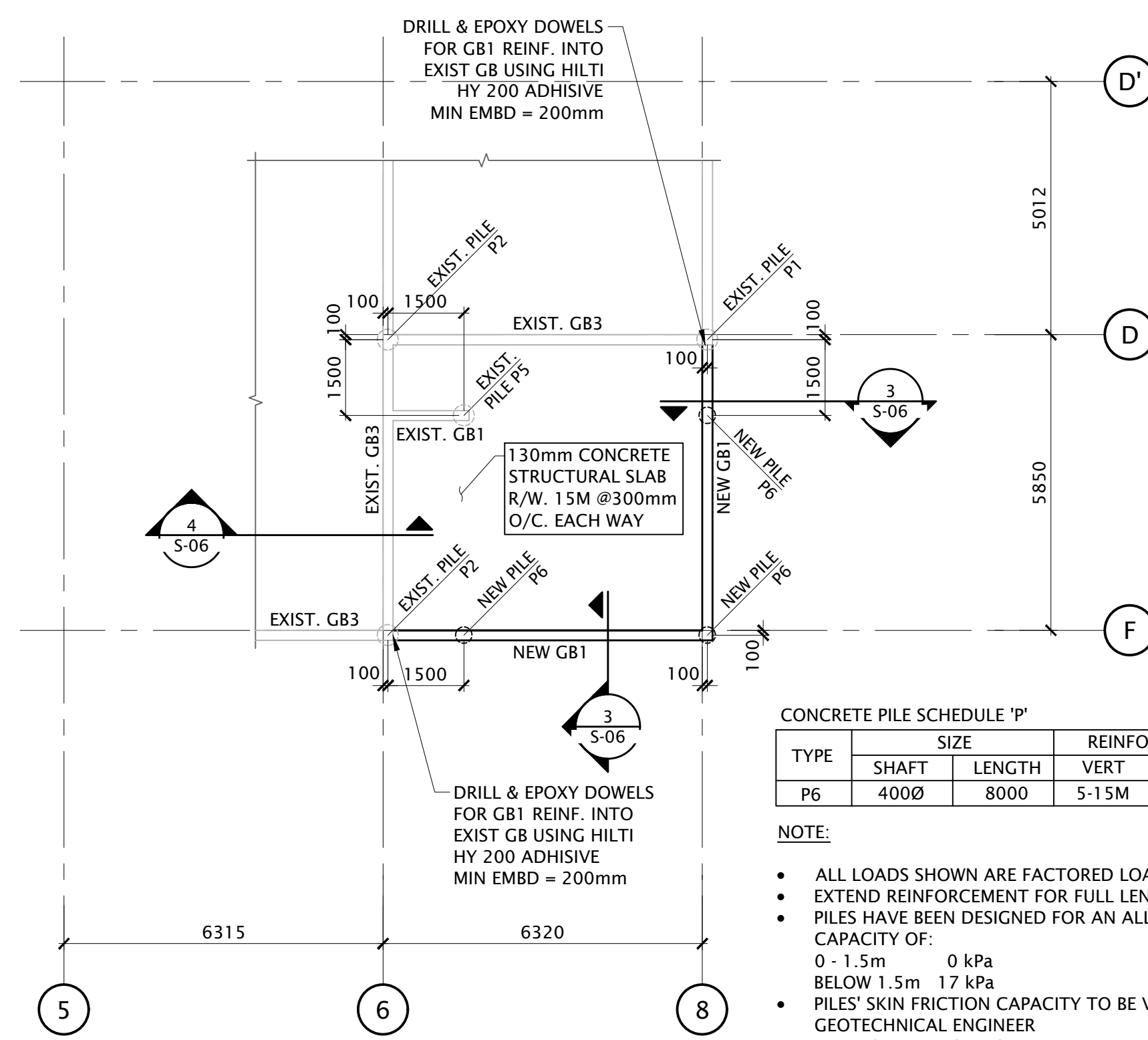
**Drawing Title**  
TYPICAL DETAILS

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**Project No.**  
NCCA17-0228

**Drawing No.**  
S-05

PLOT DATE: March 29, 2018 TIME: 10:24 AM FULL PATH AND FILENAME: P:\RCMP\_PROJECTS\NCCA17-0228 - RCMP - DTF LUNCHROOM EXPANSION\300-DELIV\STRU02 - FRAMING\_PLANS\06-DWG\_PLOTS\TABLE\_PMA-STD-100.dwg



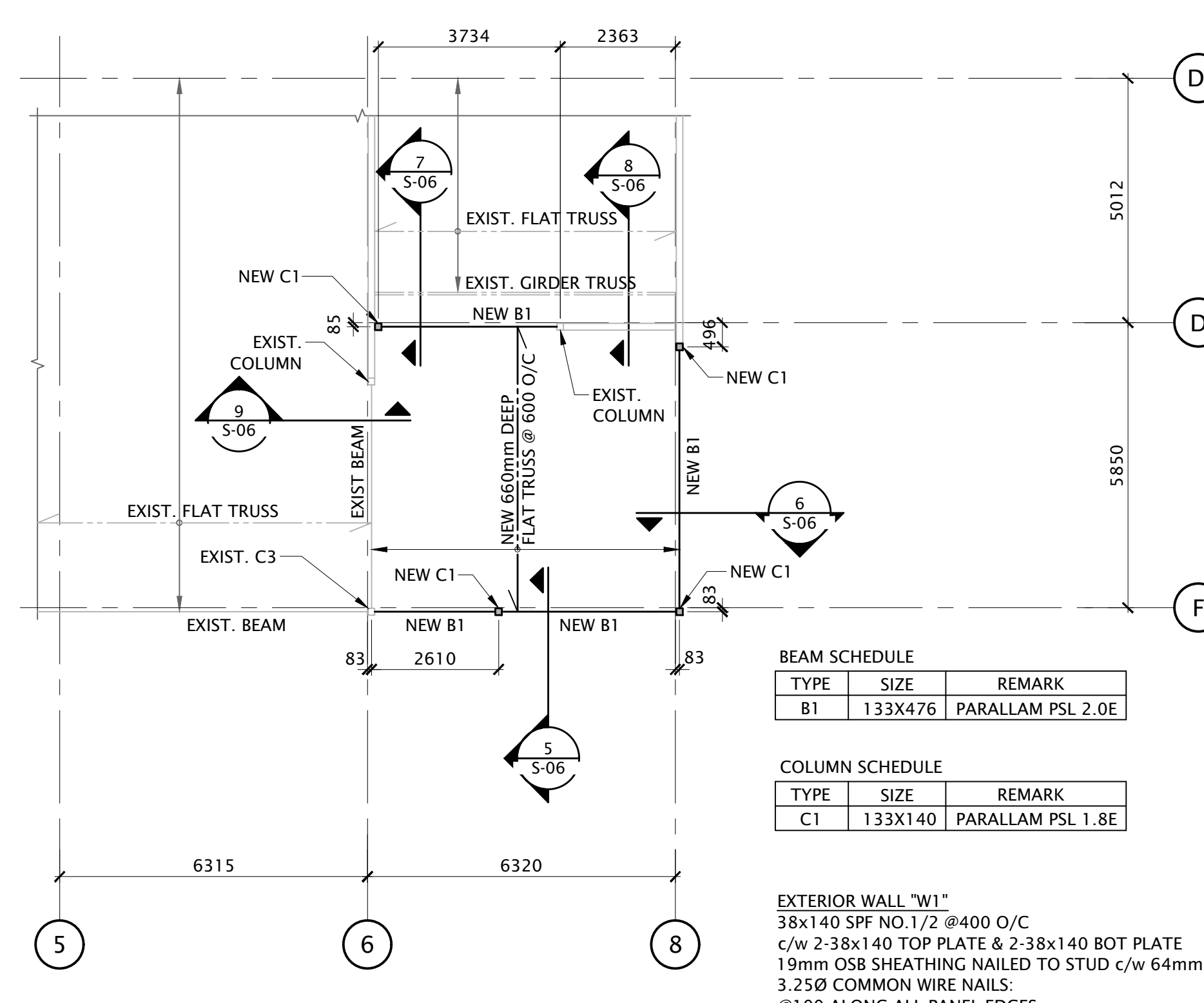
CONCRETE PILE SCHEDULE 'P'						
TYPE	SIZE	LENGTH	REINFORCEMENT	PILE LOADING	VERT LOAD	HORZ LOAD
P6	400Ø	8000	5-15M 10M@200		100 kN	20 kN

**NOTE:**

- ALL LOADS SHOWN ARE FACTORED LOADS
- EXTEND REINFORCEMENT FOR FULL LENGTH OF PILE
- PILES HAVE BEEN DESIGNED FOR AN ALLOWABLE SKIN FRICTION CAPACITY OF:
  - 0 - 1.5m 0 kPa
  - BELOW 1.5m 17 kPa
- PILES' SKIN FRICTION CAPACITY TO BE VERIFIED ON SITE BY A GEOTECHNICAL ENGINEER
- PILE INSTALLATION TO BE UNDER THE DIRECT SUPERVISION OF A GEOTECHNICAL ENGINEER
- CONCRETE PILE DESIGN PARAMETERS HAVE BEEN BASED ON INFORMATION SHOWN ON EXISTING DRAWINGS AVAILABLE FROM THE DEPARTMENTAL REPRESENTATIVE. THE CONTRACTOR SHALL RETAIN A GEOTECHNICAL ENGINEER WHO SHALL BE RESPONSIBLE FOR THE FINAL DESIGN AND INSTALLATION OF PILES.

CONCRETE GRADE BEAM SCHEDULE 'GB'		
TYPE	SIZE	REINFORCEMENT
GB1	200X600	2-20M T&B C/W 10M@200 STIRRUPS

01 FOUNDATION PLAN  
S-06 1:100



BEAM SCHEDULE		
TYPE	SIZE	REMARK
B1	133X476	PARALLAM PSL 2.0E

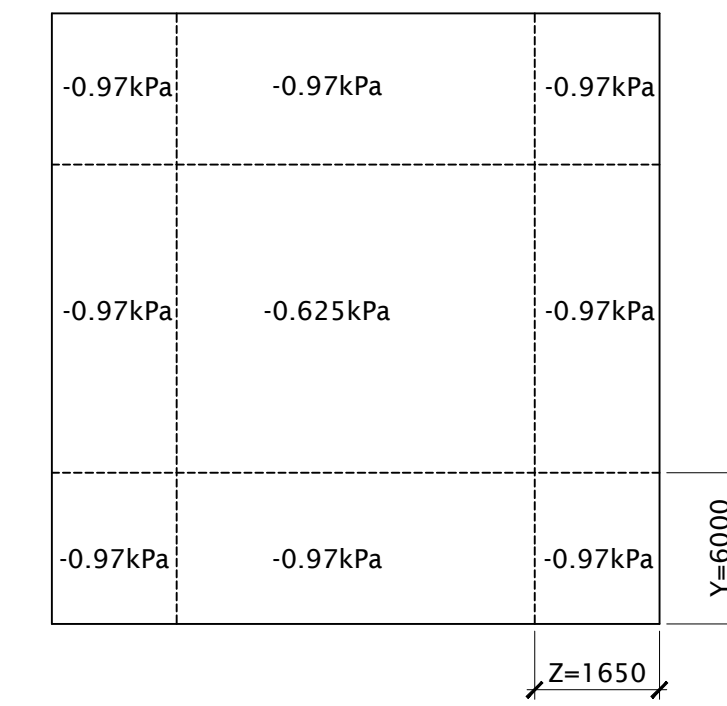
COLUMN SCHEDULE		
TYPE	SIZE	REMARK
C1	133X140	PARALLAM PSL 1.8E

**EXTERIOR WALL 'W1'**  
 38x140 SPF NO.1/2 @400 O/C  
 c/w 2-38x140 TOP PLATE & 2-38x140 BOT PLATE  
 19mm OSB SHEATHING NAILED TO STUD c/w 64mm x 3.25Ø COMMON WIRE NAILS:  
 @100 ALONG ALL PANEL EDGES  
 @300 ALONG INTERMEDIATE SUPPORTS

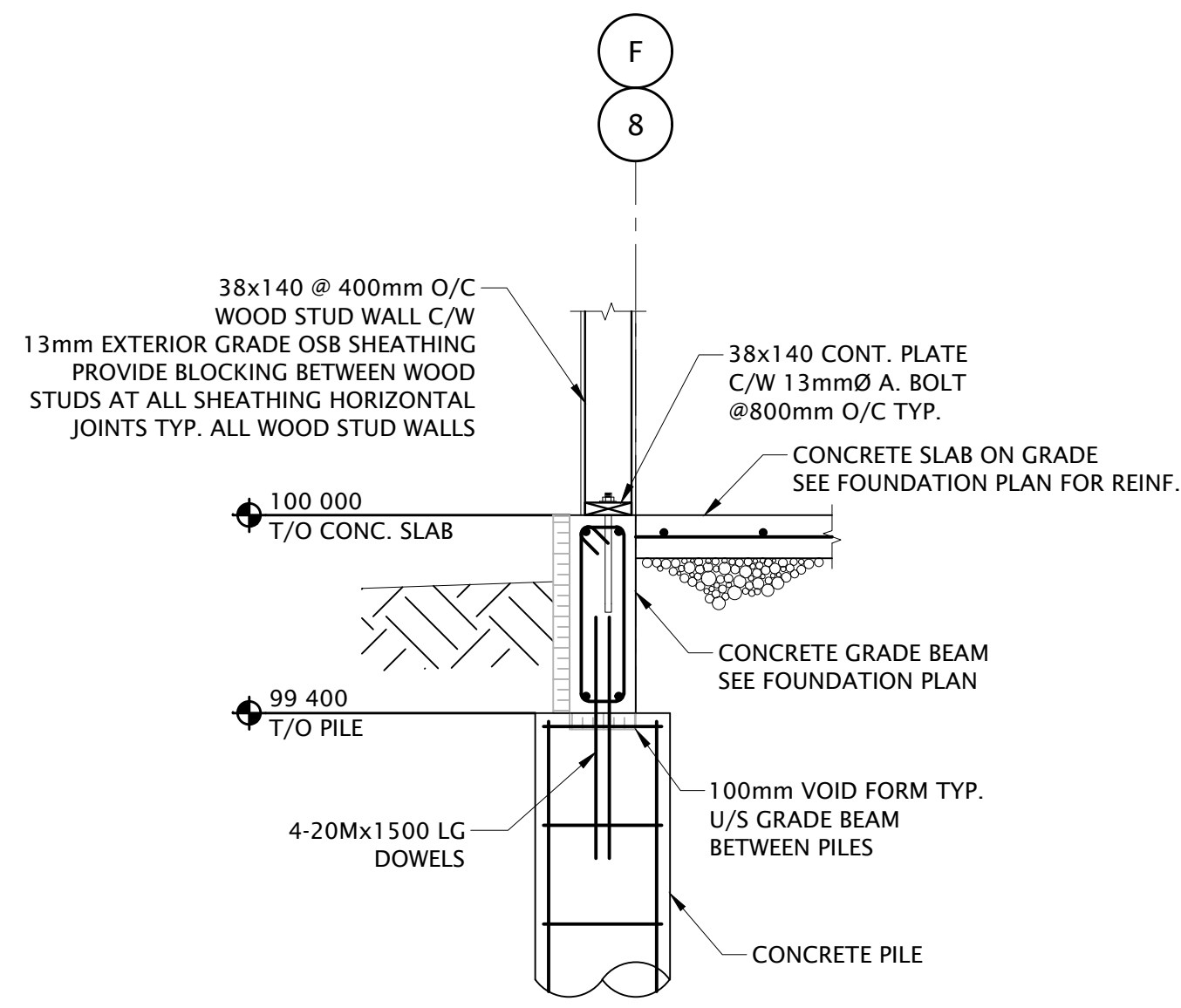
**NOTE**  
 PROVIDE ALL NECESSARY TEMPORARY SHORING TO ALLOW INSTALLATION OF NEW STRUCTURES.

02 ROOF FRAMING PLAN  
S-06 1:100

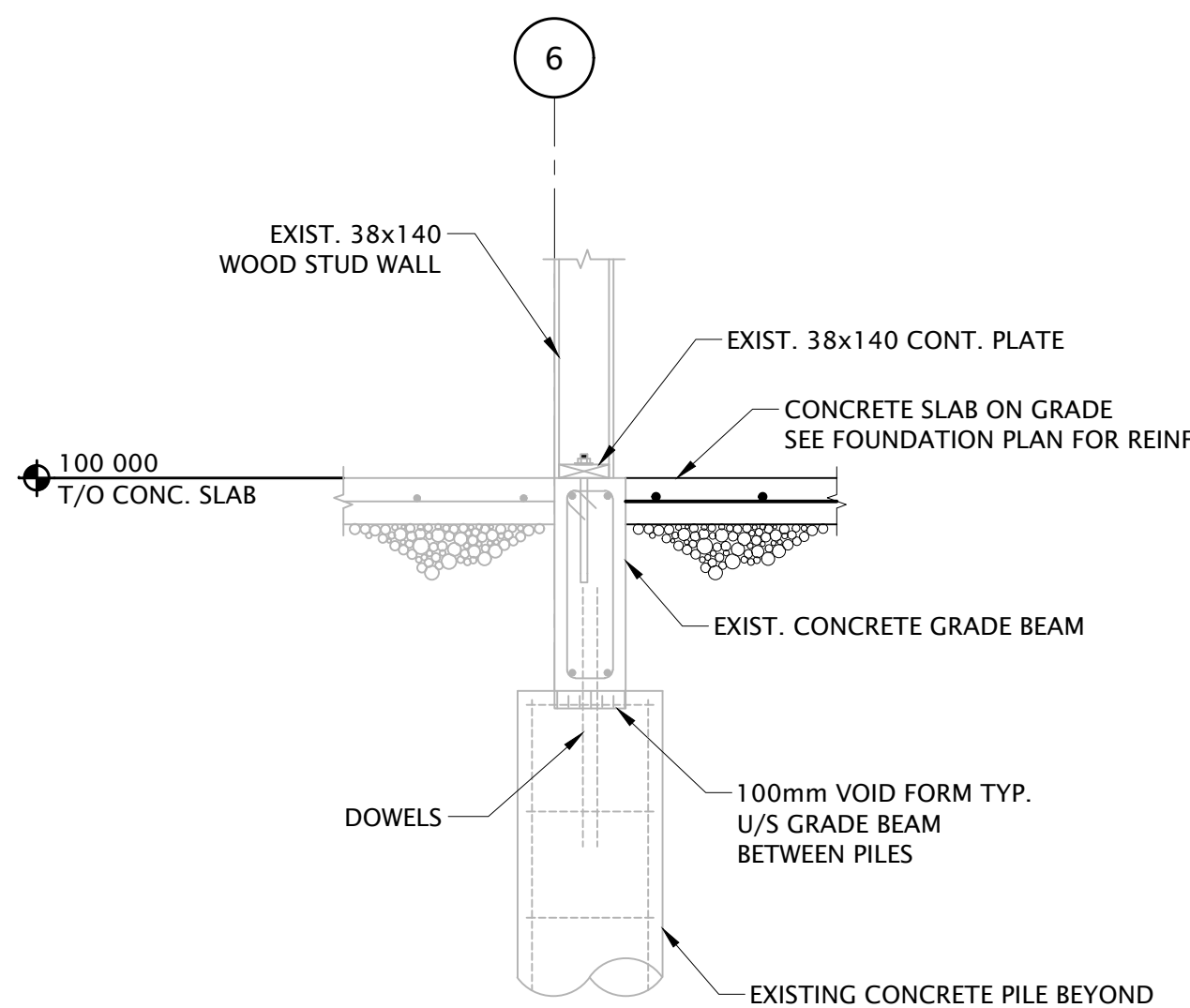
**LOADING**  
 DEAD LOAD: 1.2 kPa (SELF WEIGHT)  
 SDL1: 0.5 kPa (E & M)  
 SDL2: 0.8 kPa (ROOFING & INSULATION)  
 SNOW LOAD: 1.825 kPa



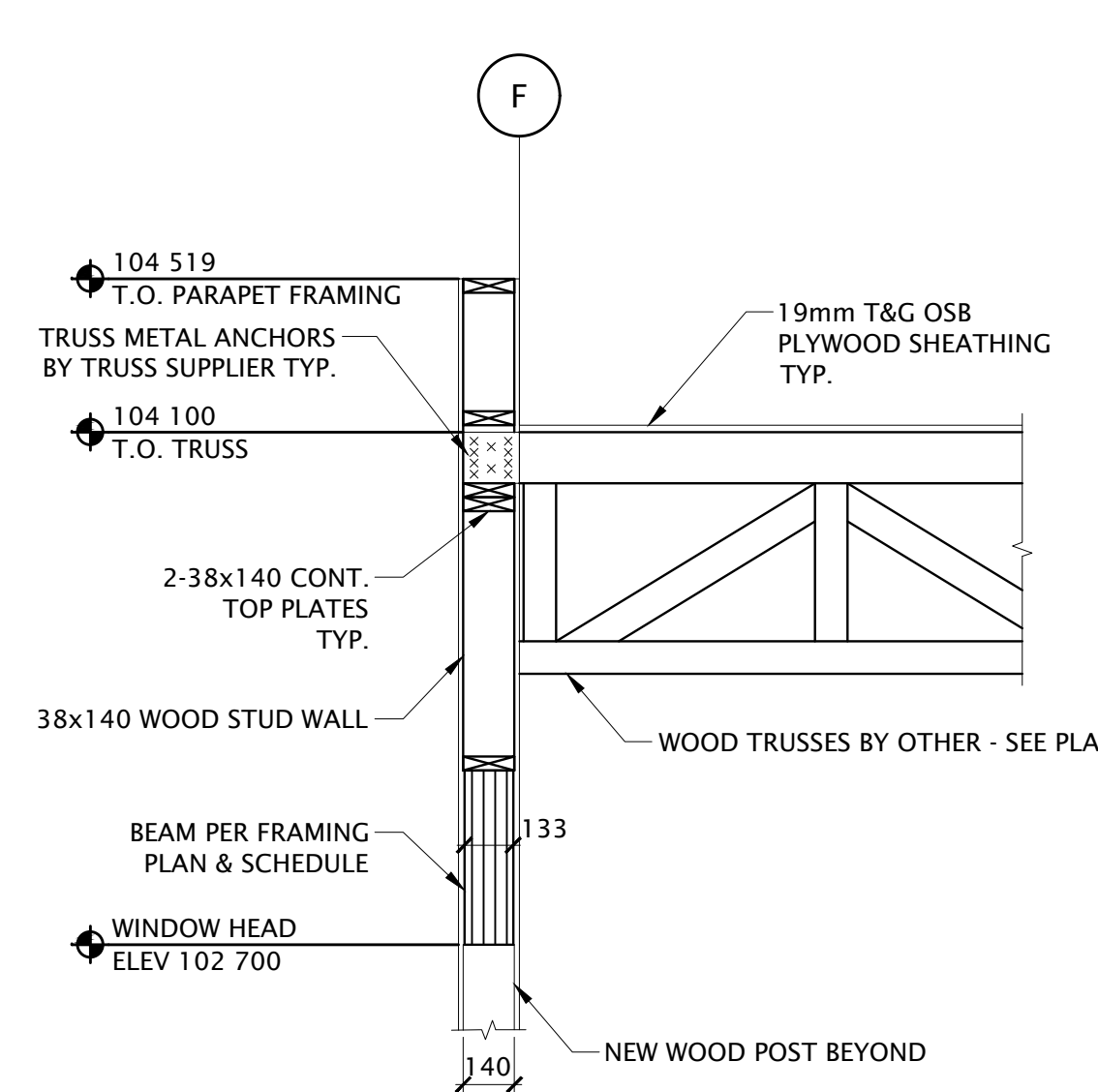
ROOF UPLIFT DIAGRAM



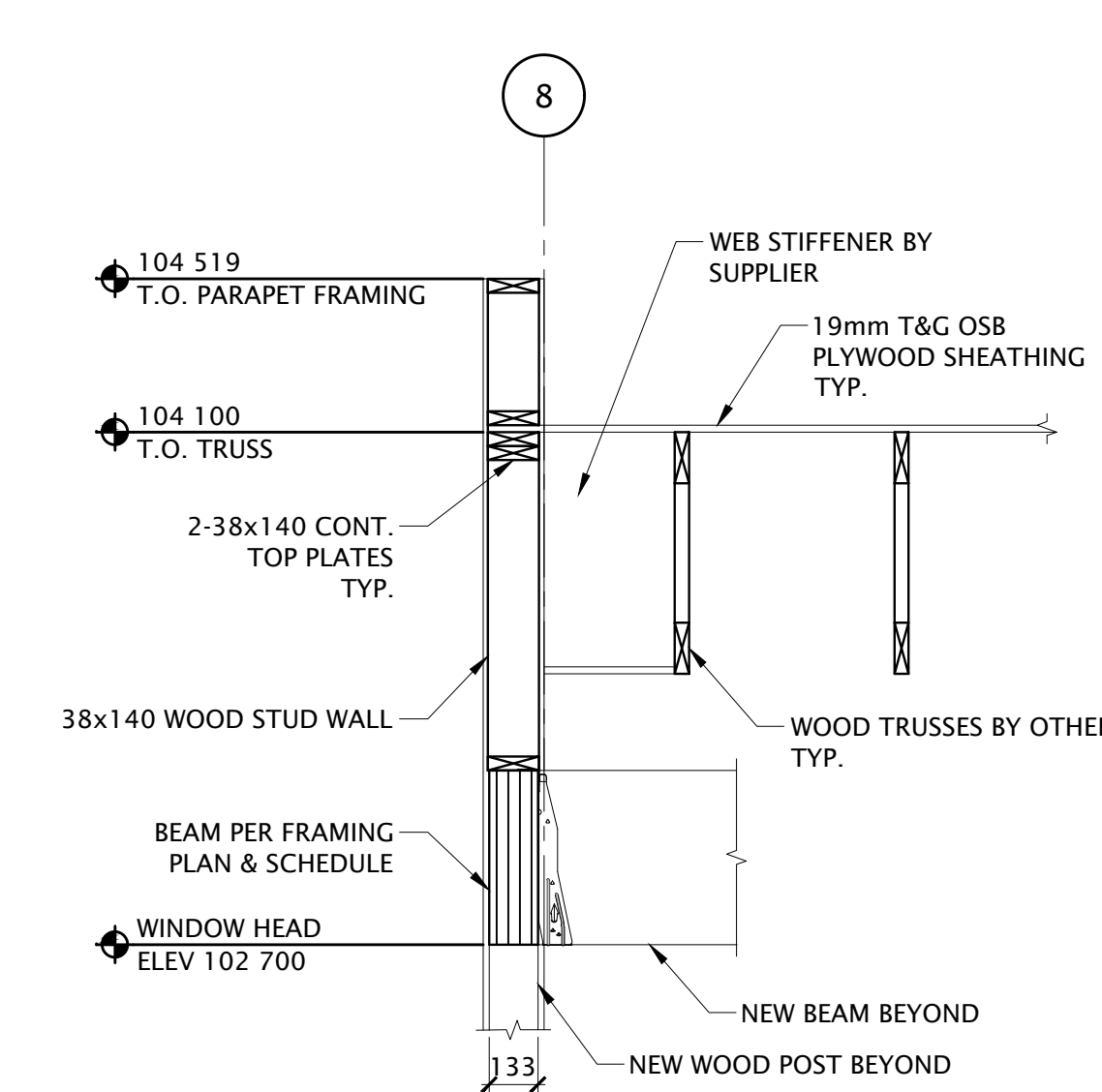
03 S-06 1:20



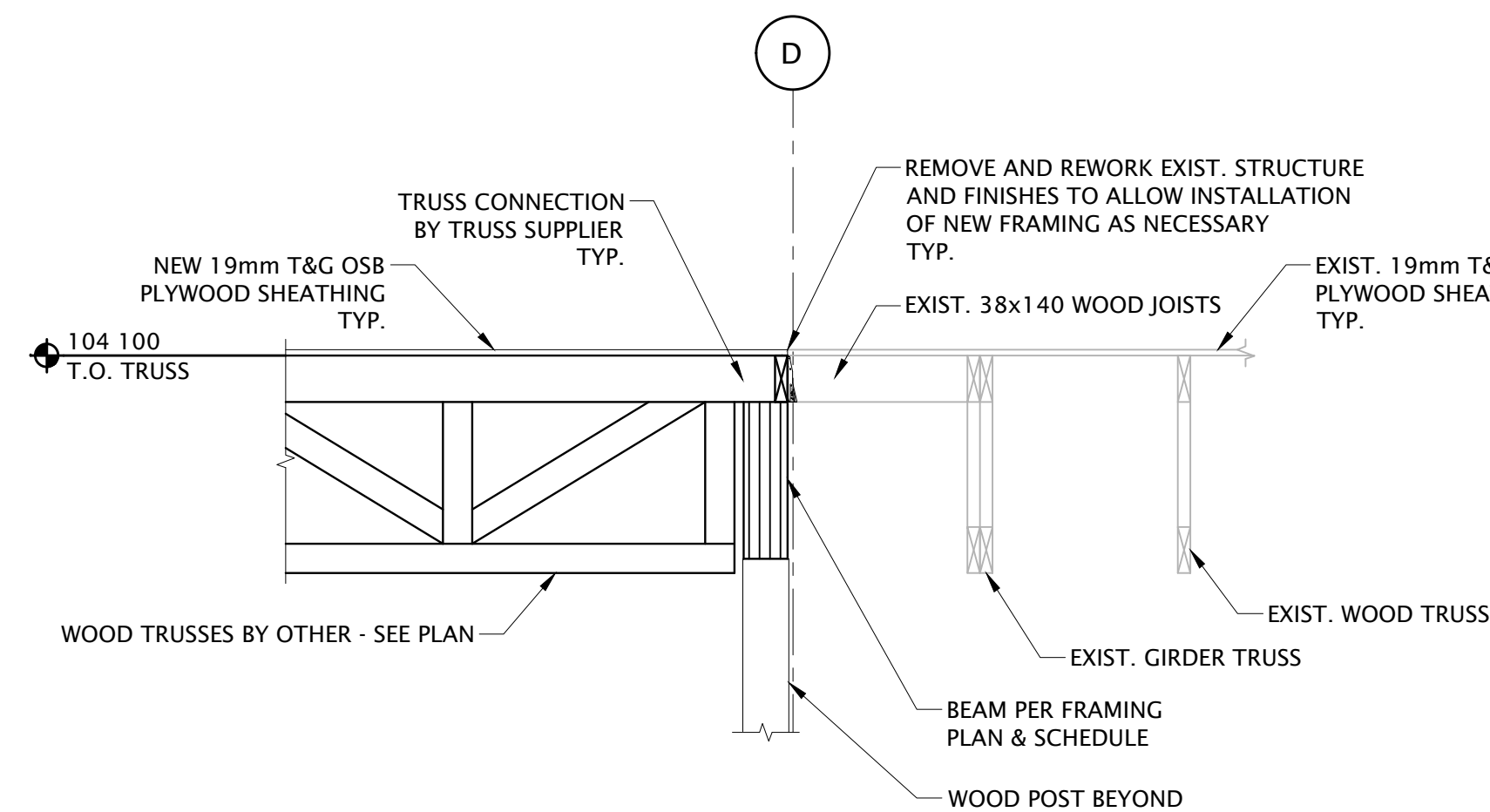
04 S-06 1:20



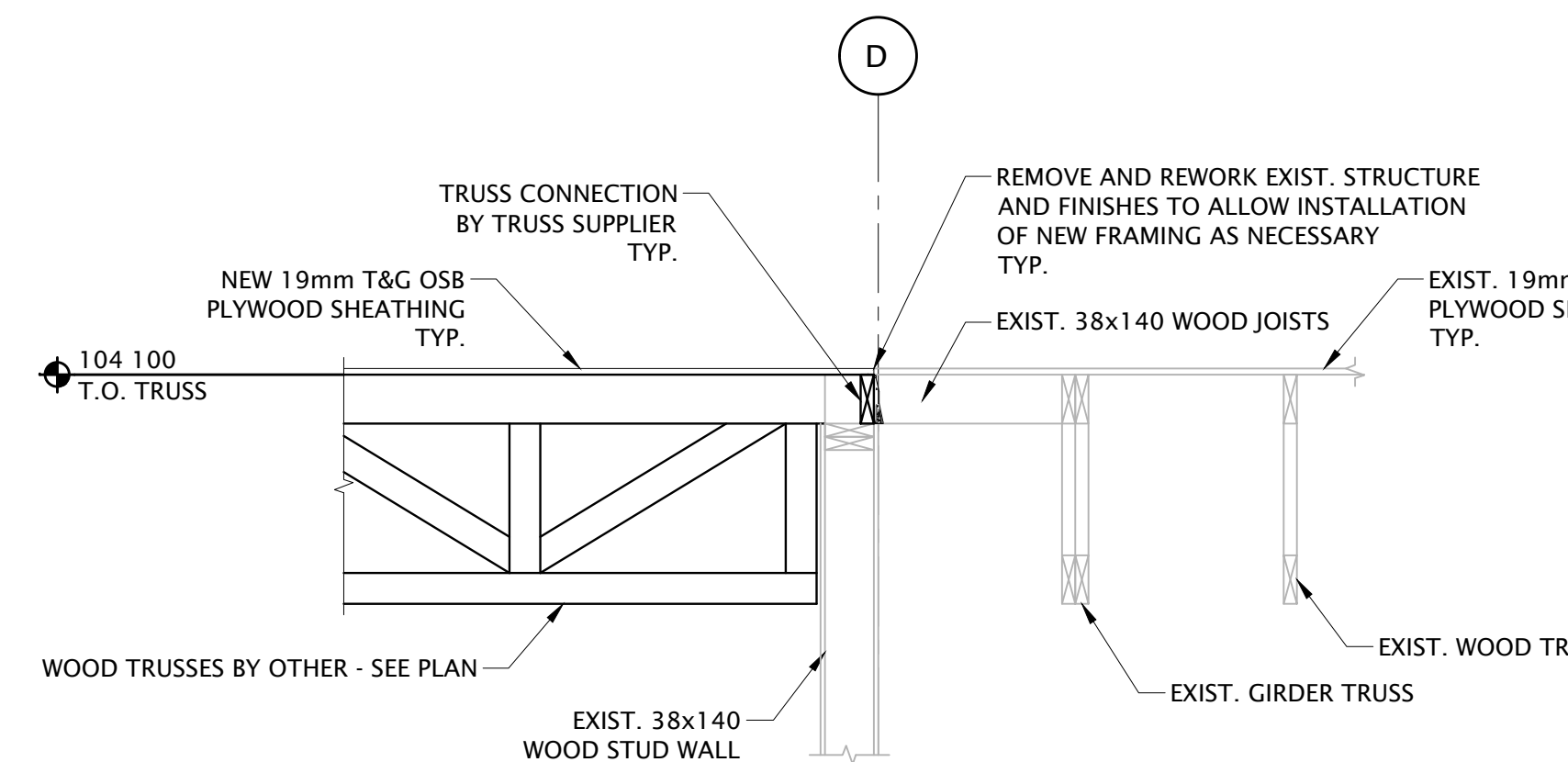
05 S-06 1:20



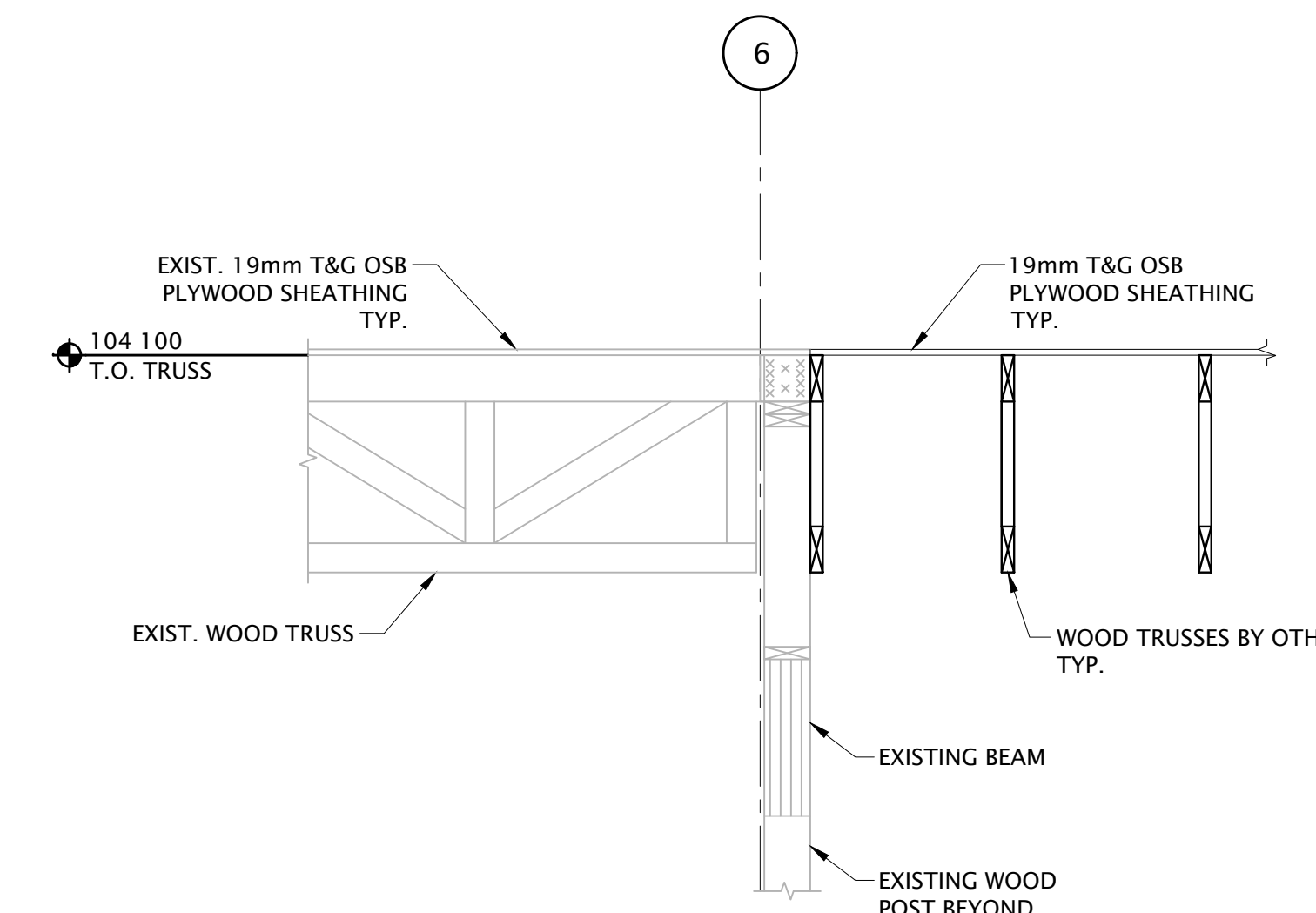
06 S-06 1:20



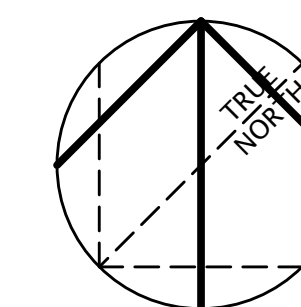
07 S-06 1:20



08 S-06 1:20



09 S-06 1:20



DATE	ISSUED FOR	REV
2018-02-07	ISSUED FOR 60% REVIEW	
2018-02-14	ISSUED FOR DP	
2018-03-02	ISSUED FOR 95% REVIEW	
2018-03-29	ISSUED FOR TENDER	

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 This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer.

**Project Component**  
 LUNCHROOM EXPANSION  
**Keyplan**

**Consultants**  
 Architectural: NORR Architects Engineers Planners  
 Structural: NORR Architects Engineers Planners  
 Mechanical: NORR Architects Engineers Planners  
 Electrical: NORR Architects Engineers Planners

**Seal(s)**

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 Andrew Taylor, P. Eng., M.P.E.G.A.  
 Chris Ho, P. Eng., M.P.E.G.A.

Project Manager	Drawn
D. HIDER	
Project Leader	Checked
D. HIDER	A. TODEILA

**Client**  
 RCMP

**Project**  
 INNISFAIL PDSTC  
 LUNCHROOM EXPANSION

**Drawing Title**  
 PLANS AND SECTIONS  
 FOUNDATION PLAN,  
 FRAMING PLAN AND SECTIONS

Check Scale (may be photo reduced)  
 0 10m  
 Project No. NCCA17-0228  
 Drawing No. S-06