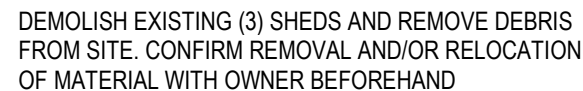




A001



SITE PLAN LOCATION MARKERS

MARKER #	NORTHING	EASTING	ELEVATION	DESCRIPTION
5000	5699723.401	557879.098	26.80	park-lot
5001	5699724.287	557885.866	26.80	park-lot
5002	5699720.618	557886.364	26.80	park-lot
5003	5699721.587	557893.756	26.80	park-lot
5004	5699687.846	557879.588	26.63	park-lot-entr
5005	5699681.895	557880.33	26.63	park-lot-entr
5006	5699688.221	557882.1	26.63	park-lot
5007	5699690.367	557883.417	26.63	park-lot
5008	5699721.318	557891.701	26.80	park-lot
5009	5699707.932	557893.451	26.90	park-lot
5010	5699707.232	557888.097	26.90	park-lot
5011	5699689.518	557890.413	26.90	park-lot
5012	5699687.853	557892.943	26.90	park-lot
5013	5699688.87	557896.519	27.00	park-lot
5014	5699682.241	557882.976	26.63	park-lot
5015	5699681.296	557884.944	26.63	park-lot
5016	5699670.543	557890.909	26.63	park-lot
5017	5699669.658	557893.165	26.63	park-lot
5018	5699669.791	557893.637	26.63	park-lot
5019	5699664.594	557895.103	26.63	park-lot
5020	5699671.979	557921.074	26.90	park-lot
5021	5699677.173	557919.597	26.90	park-lot
5022	5699679.569	557920.712	26.90	park-lot
5023	5699698.363	557915.368	26.90	park-lot
5024	5699696.786	557909.82	26.90	park-lot
5025	5699693.211	557910.836	26.90	park-lot
5026	5699692.84	557910.63	26.90	park-lot
5027	5699709.12	557904.258	27.00	blldg-cor
5028	5699687.897	557910.293	27.00	blldg-cor
5029	5699684.068	557896.827	27.00	blldg-cor
5030	5699705.156	557890.319	27.00	blldg-cor
554404	5704857.179	554220.236	1608.596	ASC

SURVEY BASED FROM ASCM 954404, IN GROUND FORMAT AND SCALE FACTOR IS 0.999403. COMPLETE IN UTM.

DISCLAIMER: THE CONTRACTOR WILL NEED TO CONFIRM THE CONTROL POINTS AND STANTEC IS NOT LIABLE FOR ANY MISSING OR DISTURBED CONTROL POINTS AS THE FIELD SURVEY WAS COMPLETED IN OCTOBER OF 2017.

SITE CLEARING AND PLANT PROTECTION:

.1 PROTECT TREES AND PLANT ON SITE AND ADJACENT PROPERTIES.

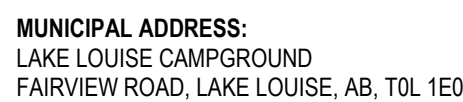
2. WRAP IN BURLAP, TREES AND SHRUBS ADJACENT TO CONSTRUCTION WORK, STORAGE AREAS AND TRUCKING LANES, AND ENCASE WITH PROTECTIVE WOOD FRAMEWORK FROM GRADE LEVEL TO HEIGHT OF 2M.

3. PROTECT ROOTS OF DESIGNATED TREES TO DRIPLINE DURING EXCAVATION AND SITE GRADING TO PREVENT DISTURBANCE OR DAMAGE. AVOID UNNECESSARY TRAFFIC, DUMPING AND STORAGE OF MATERIALS OVER ROOT ZONES

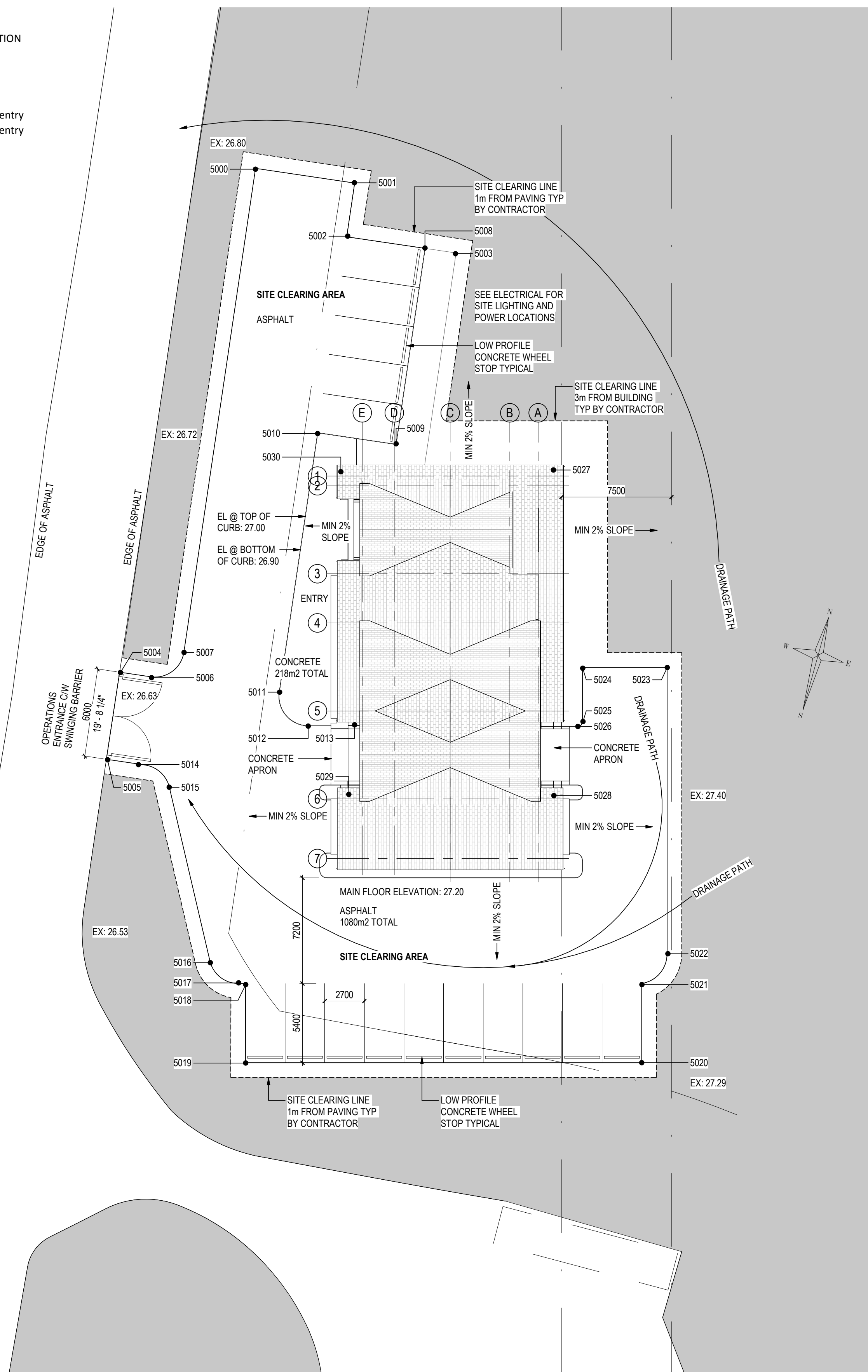
.4 MINIMIZE STRIPPING OF TOPSOIL AND VEGETATION.

.5 RESTRICT TREE REMOVAL TO AREAS INDICATED ON PLAN
AND OUTLINED BELOW:

REMOVE TREES, BRANCHES AND SHRUBS THAT ARE A 1M FROM PAVEMENT / CONCRETE AND ELECTRICAL / MECHANICAL INFRASTRUCTURE AND 3M FROM THE BUILDING OVERHANG. DEAD, DANGEROUS, DISEASED OR SEVERELY INJURED TREES ARE TO BE REMOVED FROM SITE. ANY TREE OUTSIDE OF THE BUFFER ZONE THAT POSE AN IMMINENT THREAT TO THE SAFETY OF THE BUILDING OCCUPANTS OR INFRASTRUCTURE MAY BE REMOVED. CONFIRM WITH PARKS CANADA REPRESENTATIVE IF A TREE IS IN QUESTION.



LEGAL ADDRESS:
NOT AVAILABLE, TO BE PROVIDED DURING BUILDING PERMIT PROCESS



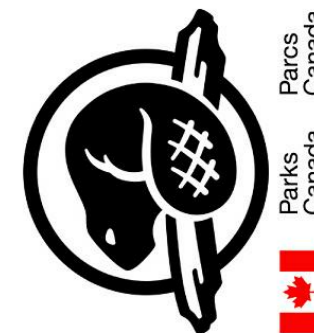
Consultant

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Client/Project
Parks Canada Agency

Lake Louise
Campground
Operation Centre
Fairview Road
Lake Louise, Alberta

Project No.:113678159

File Name: N/A

Scale: As indicated

RA	RA/RC	RC	01/04/19
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

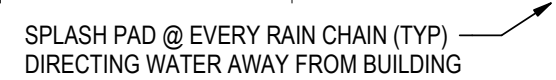
Title
SITE PLAN

Revision: _____
Drawing No _____

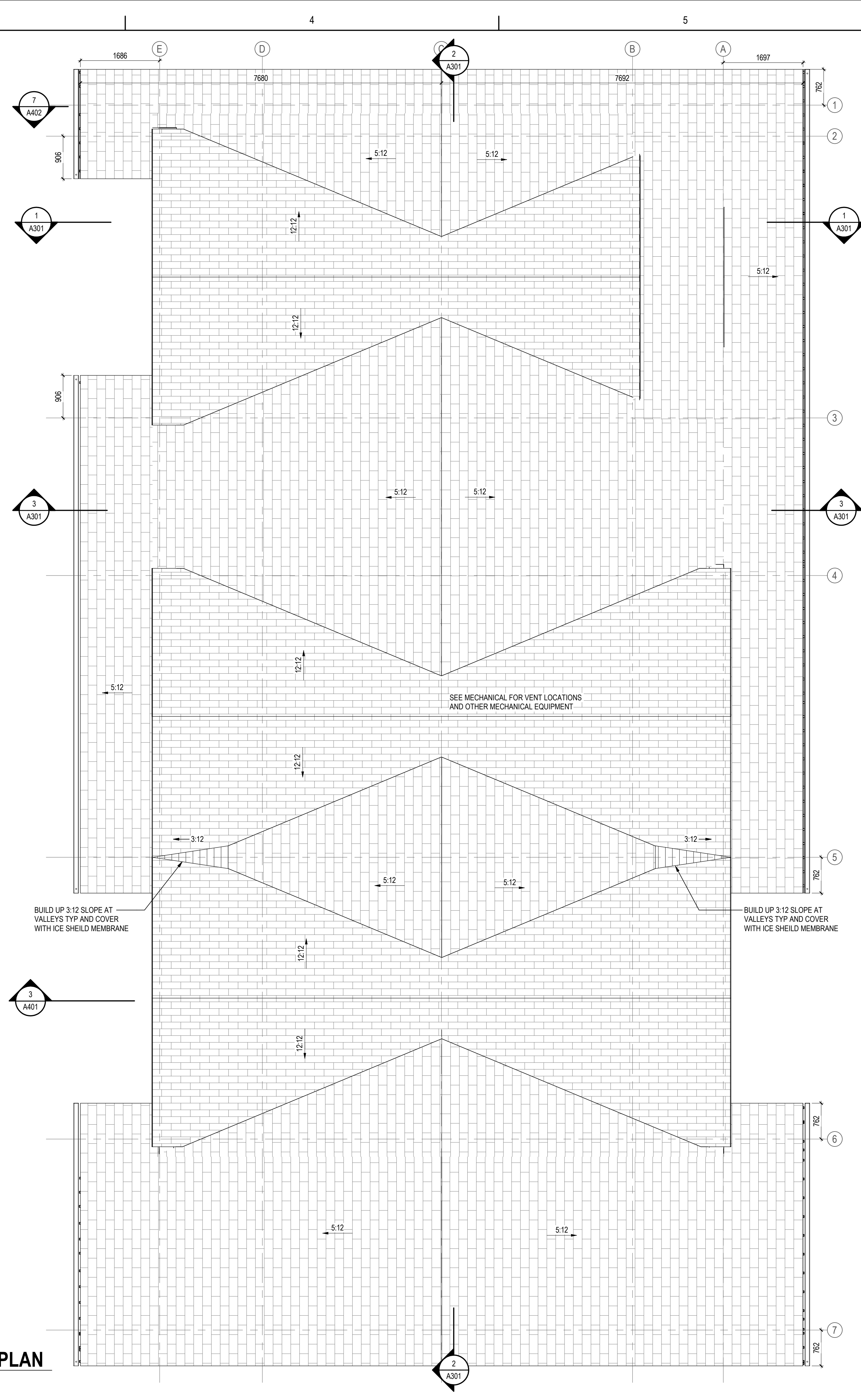
A100



1 : 50



1 : 50





GENERAL NOTES:

1. ALL OPERABLE WINDOWS TO INCLUDE SCREENS
2. ALL OPERABLE WINDOWS TO HAVE A LOCKABLE FUNCTION
3. ALL WINDOWS TO BE FIBERGLASS
4. ALL WINDOW AND DOOR FRAMES TO BE FINISHED WITH BLACK EXTERIOR AND WHITE INTERIOR

- GENERAL NOTES:
1. ALL OPERABLE WINDOWS TO INCLUDE SCREENS
 2. ALL OPERABLE WINDOWS TO HAVE A LOCKABLE FUNCTION
 3. ALL WINDOWS TO BE FIBERGLASS
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Parks Canada Agency

Lake Louise
Campground
Operation Centre
Fairview Road
Lake Louise, Alberta

Project No.:113678159

File Name: N/A

Scale: 1 : 50

RA	RA/RC	RC	03/05/18
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
BUILDING ELEVATIONS

Revision:
Drawing No.

A 20

A201

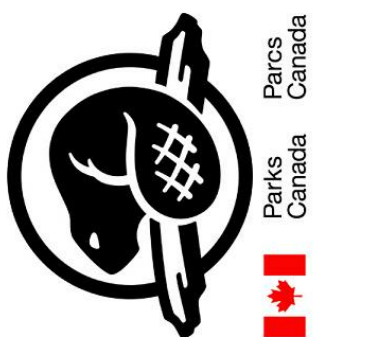


GENERAL NOTES:

1. ALL OPERABLE WINDOWS TO INCLUDE SCREENS
2. ALL OPERABLE WINDOWS TO HAVE A LOCKABLE FUNCTION
3. ALL WINDOWS TO BE FIBERGLASS
4. ALL WINDOW AND DOOR FRAMES TO BE FINISHED WITH BLACK EXTERIOR AND WHITE INTERIOR

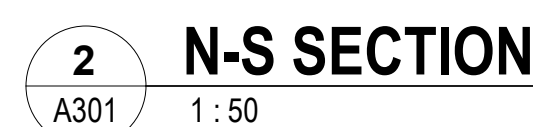
Revision	By	Appd	TTTAM/MD
Issued			
PACKAGE A	R/A	RDC	2018.03.19
INFORMATION FOR PRICING	R/A	RDC	2018.05.18
CLIENT REVIEW PACKAGE #WS	R/A	RDC	2018.05.18
BP / JET PACKAGE	R/A	RDC	2018.05.28
IT / PACKAGE - SITE CLEARING	R/A	RDC	2018.11.13
JET PACKAGE	R/A	RDC	2019.01.09

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Drawing No.

A202









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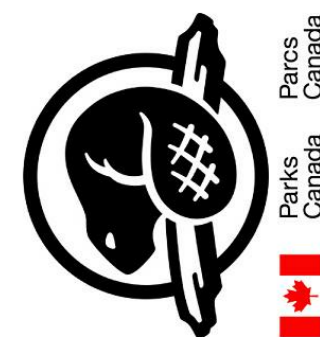
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	R/A	RDC	2019.01.09
I/T PACKAGE	R/A	RDC	2018.11.13
I/T PACKAGE - SITE CLEARING	R/A	RDC	2018.05.28
B/P J/T PACKAGE	R/A	RDC	2018.06.18
CLIENT REVIEW PACKAGE 90%	R/A	RDC	2018.05.18
INFORMATION FOR PRICING	R/A	RDC	2018.05.18
PACKAGE A	R/A	RDC	2018.05.18
Issued	Sr	Agg	WWW.AM.DD

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Parks Canada Agency

Lake Louise
Campground
Operation Centre
Fairview Road
Lake Louise, Alberta

Project No.:113678159

File Name: N/A

Scale: 1 : 10

RA	RA/RC	RC	04/25/18
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

ENLARGED PLAN DETAILS

Revision:
Drawing No.

A403

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Lake Louise
Campground
Operation Centre
Fairview Road
Lake Louise, Alberta

File Name: N/A

Scale: 1 : 6

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WINDOW INSTALLATION SEQUENCE & PENETRATION DETAILS

Revision:

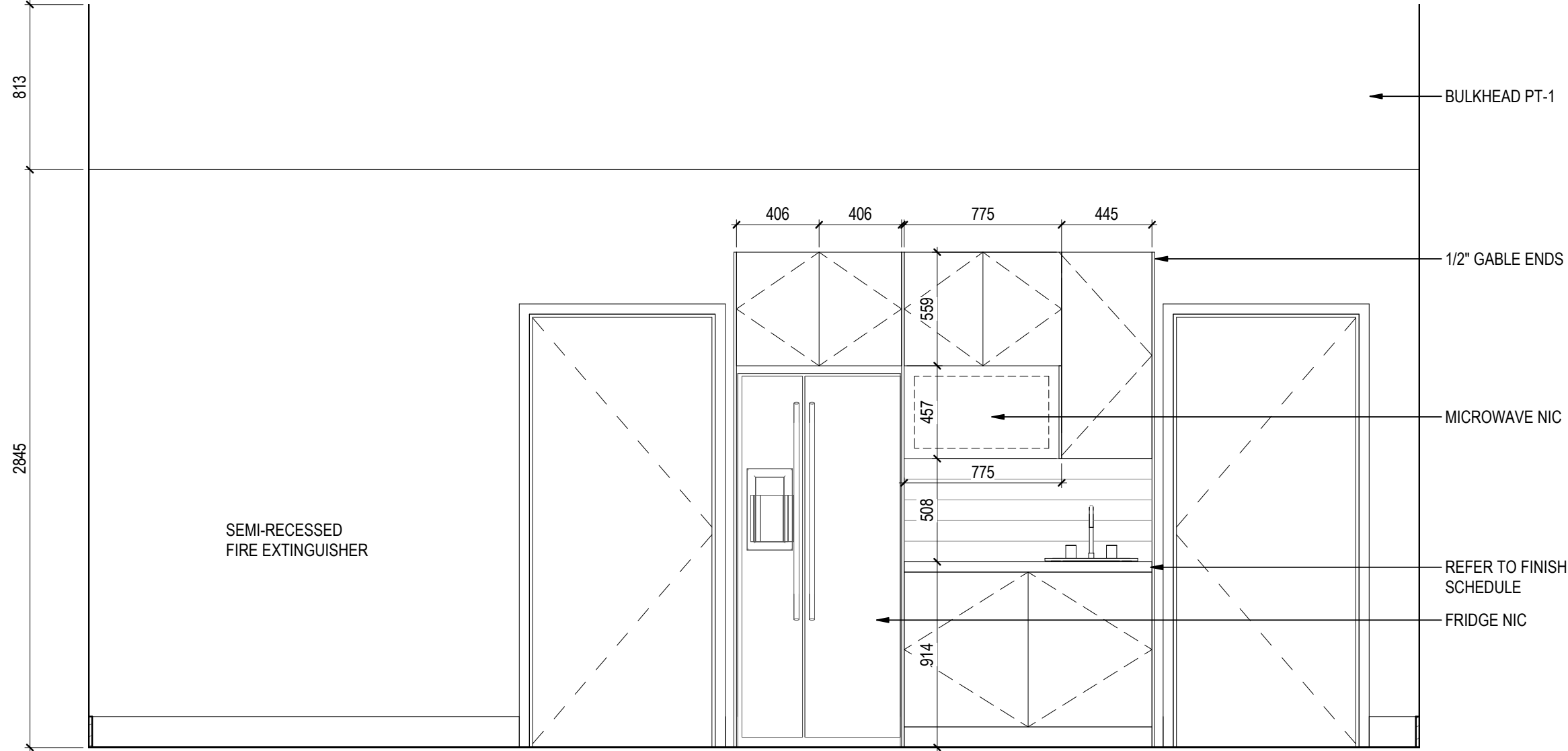
Drawing No

A404

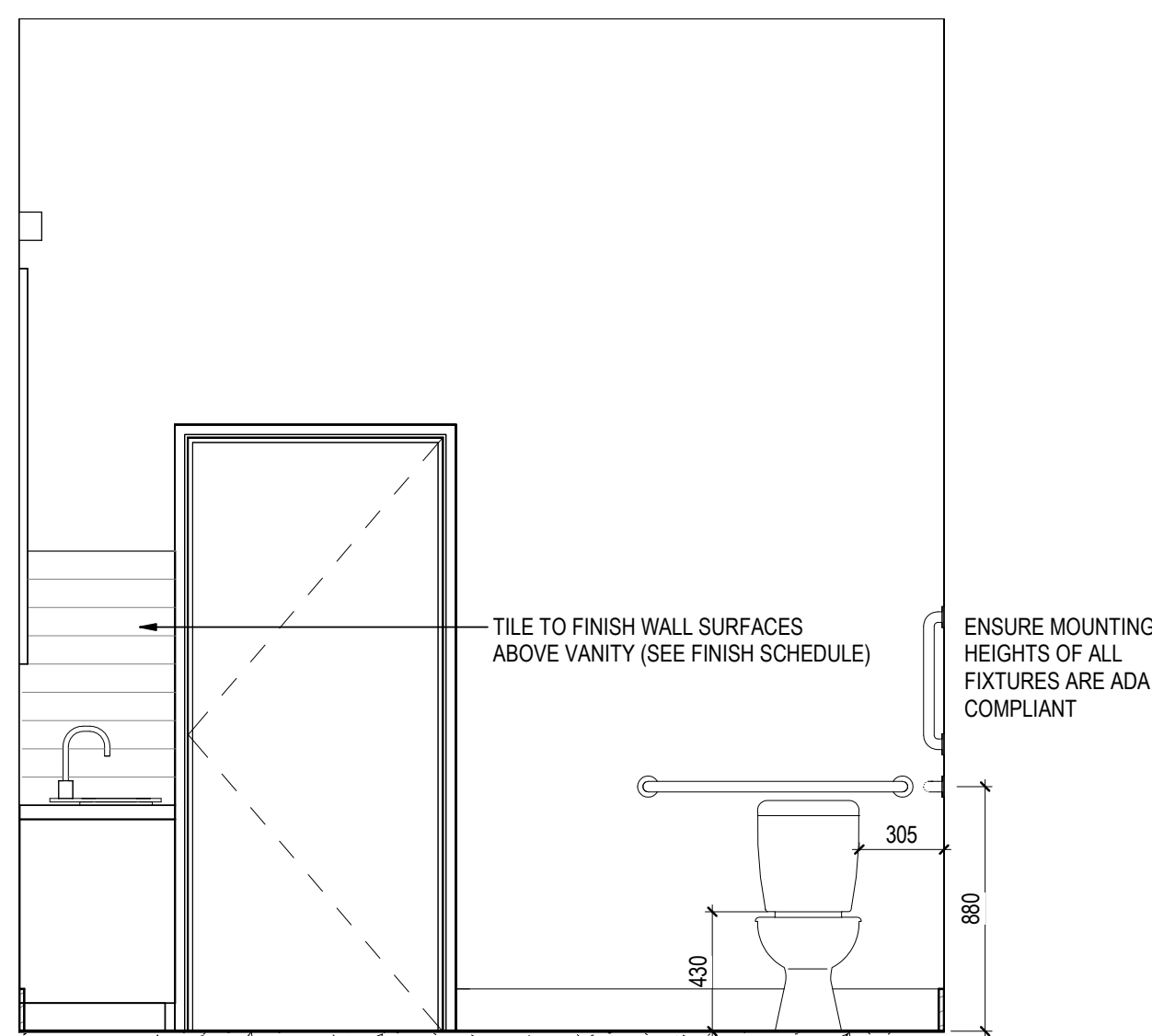


1 **SE**
A404 1:6

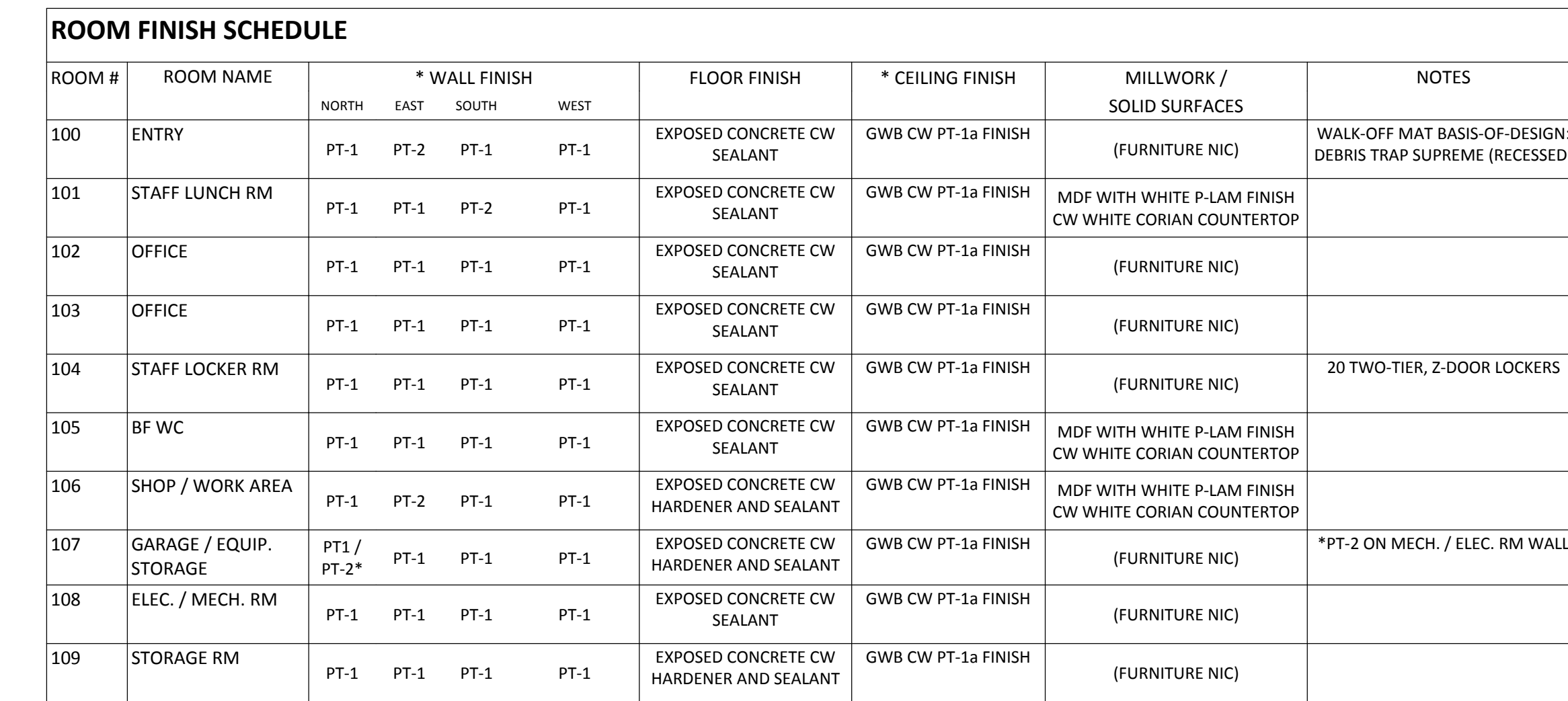
2 **W**
A404 1:6



2 STAFF LUNCH ROOM - SOUTH



4 BARRIER-FREE WATER CLOSET - EAST
A501 1:25



FINISH LEGEND				
MARK TYPE	DESCRIPTION	MANUF.	PRODUCT	WEBSITE
PT-1	PAINT (EGGSHELL)	Benjamin Moore	869 Oxford White	https://www.benjaminmoore.com/en-ca/colour-overview/find-your-colour/colour/869/oxford-white?color=869&source=%2Fn-ca%2Fcolour-overview%2Ffind-your-colour%2Fcolour-families%2Fwhi%2Fwhite
PT-1a	PAINT (SEMI-GLOSS)	Benjamin Moore	869 Oxford White	https://www.benjaminmoore.com/en-ca/colour-overview/find-your-colour/colour/869/oxford-white?color=869&source=%2Fn-ca%2Fcolour-overview%2Ffind-your-colour%2Fcolour-families%2Fwhi%2Fwhite
PT-2	HIGHLIGHT PAINT	Benjamin Moore	780 Summers Day	https://www.benjaminmoore.com/en-ca/colour-overview/find-your-colour/colour/csp-780/summers-day?source=%2Fen-ca%2Fcolour-overview%2Ffind-your-colour%2Fcolour-collections%2Fcsp%2Faura-colour-stories&color=CSP-780
PT-3	EXTERIOR PAINT	Benjamin Moore	525 Raleigh Green	https://www.benjaminmoore.com/en-ca/colour-overview/find-your-colour/colour/cw-525/raleigh-green?color=CW-525
PT-4	EXTERIOR PAINT	Benjamin Moore	869 Oxford White	https://www.benjaminmoore.com/en-ca/colour-overview/find-your-colour/colour/1603/graphite?color=1603
PT-5	EXTERIOR PAINT	Benjamin Moore	2131-10 Black Satin	https://www.benjaminmoore.com/en-ca/colour-overview/find-your-colour/colour/2131-10/black-satin?source=%2Fen-ca%2Fcolour-overview%2Ffind-your-colour%2Fcolour-families%2Fbla%2Fblack&color=2131-10
W-1	EXTERIOR WOOD	Sansin	Chesapeake 67	http://www.sansin.com/colors/
WT-1	CERAMIC WALL TILE	Swanstone	Subway Tile	https://www.swanstone.com/index.php?page=new_products
PL-1	PLASTIC LAMINATE	Formica	933 Mission White	http://www.formica.com/en-ca/products/colorcore2/00933
SS-1	SOLID SURFACE	Corian	Lava Rock	http://www.corian.com/colors-of-corian-
HW-1	CABINET PULL	Richelieu	8160 Brushed Nickel	https://www.richelieu.com/ca/en/category/decorative-hardware/cabinet-hardware-pulls-knobs/pulls/contemporary-metal-pulls/8160/1057758?nf_1018140=%281488145%29
RB-1	RUBBER BASE	Centura	C40C73P123 Charcoal	http://www.centura.ca/commercial/roppe-vinyl-wall-base/
B-1	MDF BASE BOARD PAINTED PT-1a	Metrie	MFPSP514	https://metrie.com/products/prairies/MFPSP514/
WM-1	WALK OFF MAT	Edgewood Group	Debris Trap Supreme	http://edgewoodgroup.ca/matting/product/debris-trap-supreme

PREFABRICATED WOOD TRUSSES AND STRUCTURAL COMPOSITE LUMBER

DESIGN, FABRICATIO

1. STRUCTURAL COMPOSITE LUMBER IS BASED ON WEYERHAEUSER PRODUCTS. ALTERNATES SHALL HAVE CAPACITIES EQUAL OR GREATER THAN ALL DESIGN PROPERTIES SHOWN IN THE TIMBER GRADES TABLE.
2. DESIGN PRE-FABRICATED WOOD TRUSSES AND THEIR CONNECTIONS FOR THE LOADS INDICATED ON THE DRAWINGS. PROVIDE ALL NECESSARY BLOCKING, BRACING, STIFFENERS AND CONNECTIONS (INCLUDING UPLIFT CONNECTIONS) IN ACCORDANCE WITH 88.
3. UNLESS NOTED OTHERWISE, LIMIT ALLOWABLE DEFLECTION FOR MANUFACTURED TIMBER MEMBERS TO THE FOLLOWING:
1. ROOF: TOTAL LOAD - SPAN/240 LIVE LOAD - SPAN/360
4. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA FOR REVIEW PRIOR TO FABRICATION. ALL SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ENGINEER OF RECORD.
5. SHOP DRAWINGS SHALL CLEARLY INDICATE SPAN, SPACING, SLOPES, DESIGN LOADS, DEFLECTION CRITERIA, MEMBER SIZES, CONNECTION DETAILS, BRACING AND BRIDGING REQUIREMENTS, ETC. OF ALL MEMBERS.
6. THE SPECIALTY ENGINEER SHALL PROVIDE INSPECTION SERVICES DURING MEMBER INSTALLATION AND UPON COMPLETION, PROVIDE LETTER OF CERTIFICATE TO THE ENGINEER STATING THAT THE FRAMING SYSTEM HAS BEEN CONSTRUCTED IN ACCORDANCE TO THE DESIGN AND SHOP DRAWINGS. THIS LETTER SHALL BE SUBMITTED PRIOR TO COVERING THE MEMBER.
7. CERTIFY THAT ALL FABRICATED TRUSSES, JOISTS, STRUCTURAL COMPOSITE LUMBER AND ASSOCIATED COMPONENTS ARE CAPABLE OF SUPPORTING ALL THE LOADS AND FORCES SPECIFIED IN THE CONTRACT SPECIFICATIONS AND ON THE DRAWINGS.
8. CERTIFY THAT ALL COMPONENTS ARE FABRICATED AND ERECTED IN ACCORDANCE WITH THE REVIEWED SHOP DRAWINGS.
9. REFER TO ARCHITECTURAL DRAWINGS FOR SLOPES, EAVE CONDITIONS, HEEL HEIGHTS OR PREFAB TRUSSES, ETC.

PROVIDE

15. PROVIDE CONNECTIONS TO USE SING-FLIGHTED HIGH-STRENGTH BOLTS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
16. PROVIDE 10 mm PLATE STIFFENERS EACH SIDE OF BEAM WHERE AT ALL BEARING CONNECTIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
17. DO NOT SPICE MATERIAL WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. WHERE GRANTED, A COMPLETE NON-DESTRUCTIVE EXAMINATION WILL BE MANDATORY AND PAID FOR BY THE SUB-CONTRACTOR.
18. PROVIDE 10 mm WEEP HOLES AT TOP AND BOTTOM OF ALL HSS COLUMNS.
19. PROVIDE CAP PLATE FOR ALL HSS COLUMNS.
20. ALL GROUT UNDER BEARING PLATES AND BASE PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 50 MPa. INSTALLED IN ACCORDANCE WITH THE SPECIFICATION AND MANUFACTURER'S RECOMMENDATIONS. PROVIDE GROUT WEEP HOLES IN COLUMN BASE PLATES WHERE SHOWN.
21. SQUARE CUT OR FULL LENGTH WELD ALL COLUMNS AT BASE PLATES AND AT TOP WHERE BEARING UNDER CONTINUOUS BEAMS.
22. REFER TO SPECIFICATION 50 12 30 FOR FINISHING.
23. SHOP AND FIELD INSPECTION OF STEEL FABRICATION AND ERECTION TO BE COMPLETED BY A THIRD PARTY TESTING AND INSPECTION AGENCY APPROVED BY AND RESPONSIBLE TO THE ENGINEER. TESTING AGENCY SHALL BE CERTIFIED TO ISSUE CERTIFICATE PAID FOR BY THE GENERAL CONTRACTOR. THE COSTS ASSOCIATED WITH TESTING TO BE INCLUDING IN BID PRICE.

WOOD

1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-086-14 AND THE NATIONAL BUILDING CODE 2015, WHICHEVER IS MORE STRINGENT.
2. SUPPLY AND INSTALL TEMPORARY BRACING NECESSARY TO PROVIDE STABILITY FOR THE STRUCTURE AS A WHOLE. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL ALL WALLS, FLOORS AND ROOF HAVE BEEN SHEATHED.
3. IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ) SHOP DRAWINGS FOR ALL TEMPORARY BRACING TO BE SUBMITTED AND SIGNED AND SEALED BY A LICENSED ENGINEER IN THE PROVINCE OF ALBERTA.
4. SUPPLY LUMBER AND STRUCTURAL COMPOSITE LUMBER WITH PROPERTIES NOTED IN TIMBER GRADING TABLE. ALL SAWN LUMBER AND TIMBER SHALL CONFORM TO "NGLA-STANDARD GRADING RULES FOR CANADIAN LUMBER".
5. MOISTURE CONTENT OF LUMBER AND TIMBER SHALL NOT EXCEED 19% (BY WEIGHT) AT TIME OF INSTALLATION. ALL LUMBER AND TIMBER TO BE ADEQUATELY PROTECTED DURING ALL STAGES OF CONSTRUCTION TO ENSURE MOISTURE CONTENT REMAINS BELOW 19% LIMIT.
6. PROTECT ENGINEERED WOOD PRODUCTS PER MANUFACTURER'S RECOMMENDATIONS. WHEN USING ENGINEERED COMPOSITE LUMBER, THE GENERAL CONTRACTOR SHALL ENSURE THAT IT IS ADEQUATELY PROTECTED DURING CONSTRUCTION.
7. CUT ALL COMPONENTS NEAT AND SQUARE, PROVIDING FULL CONTACT WITH ADJACENT MEMBERS.
8. PROVIDE 2X BLOCKING AT SUPPORTS AND ENDS OF CANTILEVERS FOR JOISTS AND RAFTERS AND PROVIDE INTERMEDIATE 2X BLOCKING OR CROSS BRIDGING AT MAXIMUM SPACING OF 2400mm ON CENTRE.
9. PROVIDE BLOCKING FOR ALL WALLS EXCEEDING 2400mm IN HEIGHT AT A MAXIMUM SPACING OF 1220mm ON CENTRE.
10. LOAD BEARING WALLS TO BE COMPLETE WITH CONTINUOUS DOUBLE TOP PLATES AND SINGLE BOTTOM PLATE AND DO NOT SPLICE TOP PLATES AT ANY POINT BETWEEN STUDS UNDER JOIST OR TRUSS BRACING. REFER TO PLANS FOR SPECIFIC LOCATIONS JOISTS OR TRUSSES MUST ALIGN WITH STUDS.

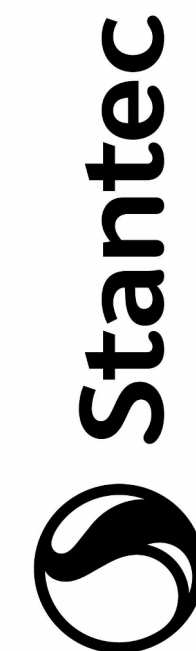
PROVINCE

- DO NOT SPUICE BUILD-UP BEAMS OR COLUMNS.
14. FASTEN ALL WOOD MEMBERS WITH NAILS ACCORDING TO THE 'NAILING FOR FRAMING' TABLE IN PART 9 OF THE BUILDING CODE, UNLESS NOTED OTHERWISE.
15. REFER TO NAIL SIZES TABLE FOR NAIL SIZES WHEN USING NAIL GUNS, INCREASE NAIL SIZE TO ACHIEVE REQUIRED DIAMETER
16. ALL CONNECTION HARDWARE TO BE GALVANIZED AND FASTENED PER THE MANUFACTURER'S RECOMMENDATIONS TO DEVELOP THE FULL CAPACITY OF THE CONNECTOR. JOIST AND BEAM CONNECTIONS TO BE SADDLE TYPE HANGERS ONLY UNO.
17. STEEL CONNECTIONS, PLATES, ANGLES, CHANNELS, BOLTS AND WASHERS EXPOSED IN EXTERIOR CONDITIONS, BUT NOT IN DIRECT CONTACT WITH WET CONDITIONS OR GROUND SHALL BE HOT DIPPED GALVANIZED, MINIMUM COATING 100 MICRONS UNO. STEEL CONNECTORS, PLATES ANGLES, CHANNELS, BOLTS AND WASHERS EXPOSED IN EXTERIOR WET CONDITIONS OR IN CONTACT WITH GROUND SHALL BE STAINLESS STEEL.
18. CONNECTIONS PROVISIONS:
 1. BOLTS TO CONFORM TO ASTM A307.
 2. ANCHOR WALL PLATES TO CONCRETE FOUNDATION WITH 12.7mm DIAMETER (BY 250mm LONG EMBEDMENT) ANCHOR BOLTS COMPETE WITH NUT AND WASHER AT 1200mm ON CENTERS UNO. REFER TO SCHEDULE DETAILS FOR REQUIREMENTS BEYOND THIS NOTE.
 3. FOR LAG SCREWS, DRILL LEAD HOLES FOR THE THREADED PORTION AND COUNTERBORE FOR THE UNTHREADED PORTION. LAG SCREWS SHALL BE TURNED WITH A WRENCH, NOT DRIVEN BY A HAMMER. DRILLING DIMENSIONS SHALL BE AS NOTED IN TABLE.
 4. BOLT HOLES SHALL BE ACCURATELY ALIGNED AND DRILLED 1-2mm LARGER THAN THE BOLT DIAMETER. OVERSIZED HOLES ARE NOT ALLOWED UNLESS INDICATED ON THE DRAWINGS.
19. A STANDARD WASHER SHALL BE PROVIDED WHERE A BOLT OR LAG SCREW HEAD OR NUT BEARS DIRECTLY ON WOOD.
20. ALL BOLTS AND LAG SCREWS IN AXIAL TENSION OR WITH A CALCULATED TENSION COMPONENT SHALL BE PROVIDED WITH STANDARD OGEE WASHERS OR PLATE WASHERS, UNDER HEADS AND NUTS.
21. NO CHECKING OR SPLITTING ALLOWED AT AREAS TO BE BOLTED OR LAGGED.
22. UNO. INSTALL WALL SHEATHING WITH PANEL, END-JOINTS LOCATED ON VERTICAL WALL STUDS. PROVIDE 38x140 mm BAYS AT ALL UNSUPPORTED EDGES. FASTEN SHEATHING USING 10d NAILS AT 75 mm ON CENTRE ALONG ALL SUPPORTED AND BACKED EDGES AND SPACED AT 300 mm ON CENTRE ALONG INTERMEDIATE SUPPORTS.
23. UNO. INSTALL ROOF SHEATHING WITH PANEL, END-JOINTS LOCATED ON ROOF FRAMING MEMBERS AND STAGGERED AT LEAST 800 mm. PROVIDE PANEL EDGE SUPPORT USING 38mm x 89 mm BACKING AT ALL UNSUPPORTED EDGES. FASTEN SHEATHING USING 8d NAILS SPACED AT 75 mm ON CENTRE ALONG ALL SUPPORTED AND BACKED EDGES AND SPACED AT 300 mm ON CENTRE ALONG INTERMEDIATE SUPPORTS.
24. USE THE CORROSION RESISTANT FASTENERS WHEN USED FOR APPLICATIONS TO TREATED WOOD OR EXPOSED TO WEATHER.
25. WOOD PRESERVATIVES:
 1. EXTERIORS AND IN CONTACT WITH CONCRETE, MASONRY, OR WHERE MOISTURE MAY OCCUR, AT ROOF UNDECKINGS IN FLAT ROOF, AND CAVITY FILLING: PRESSURE TREATED MINIMUM 0.40 LBIS/SQ. FT. TO CSA 080-08, CLEAR, WATER BORNE, ALKALINE COPPER QUAT PRESERVATIVE (ACQ), PRESSURE PRESERVATIVE TREATMENT OF LUMBER & TIMBERS WITH BORATES FOR USE OUT OF GROUND CONTACT AND CONTINUOUSLY PROTECTED FROM LIQUID WATER, MAY BE USED AS AN ALTERNATIVE. MATERIAL TO BEAR CANADIAN WOOD PRESERVERS BUREAU (CWBP) STAMPS.
 2. USE HEM-FIR OR PINE INCISED LUMBER FOR TREATMENT.
 3. TREAT CUT SURFACES AND HOLES WITH TWO BRUSH COATS OF COPPER NAPHTHANATE PRESERVATIVE OR LIQUID BORATE AS.
26. ALL CONNECTIONS NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY A SPECIALTY ENGINEER. DESIGN IN ACCORDANCE WITH CSA-086 AND CSA-S16 FOR THE LOADS INDICATED ON THE DRAWINGS.

CONCRETE FORMWORK

1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CAN/CSA-S269.3.
2. LEAVE FORMS IN PLACE OR PROVIDE SHORING FOR ALL BEAMS AND LINTELS UNTIL CONCRETE HAS REACHED 70% SPECIFIED 28-DAY COMPRESSIVE STRENGTH OR MINIMUM 7 DAYS, WHICHEVER IS GREATER.
3. REFER TO SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR CHAMFERS ON CORNERS FOR BEAMS, COLUMNS, AND WALLS.

Consultant



Stantec Consulting Ltd.
200-325 25 Street SE
Calgary, AB T2A 7H8
Tel: (403) 717 9900

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	By	Aspd	11/11/2010
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1	905 CLIENT REVIEW SET		
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3	905 INTERNAL QA/QC		
4	CLIENT REVIEW PACKAGE 90%		
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PERMIT TO PRACTICE
STANTEC CONSULTING LTD.
Signature *Debra Gifford*
Date 08-Jan-2019
PERMIT NUMBER: P 0258
The Association of Professional Engineers and
Geoscientists of Alberta



Parks Canada Agency

Lake Louise
Campground
Operation Centre
Fairview Road
Lake Louise, Alberta

Project No.:113678159

File Name: N/A

Scale:

Title

GENERAL NOTES

Revision: 5

Drawing No

S001

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ORIGINAL SHEET - ARCH D

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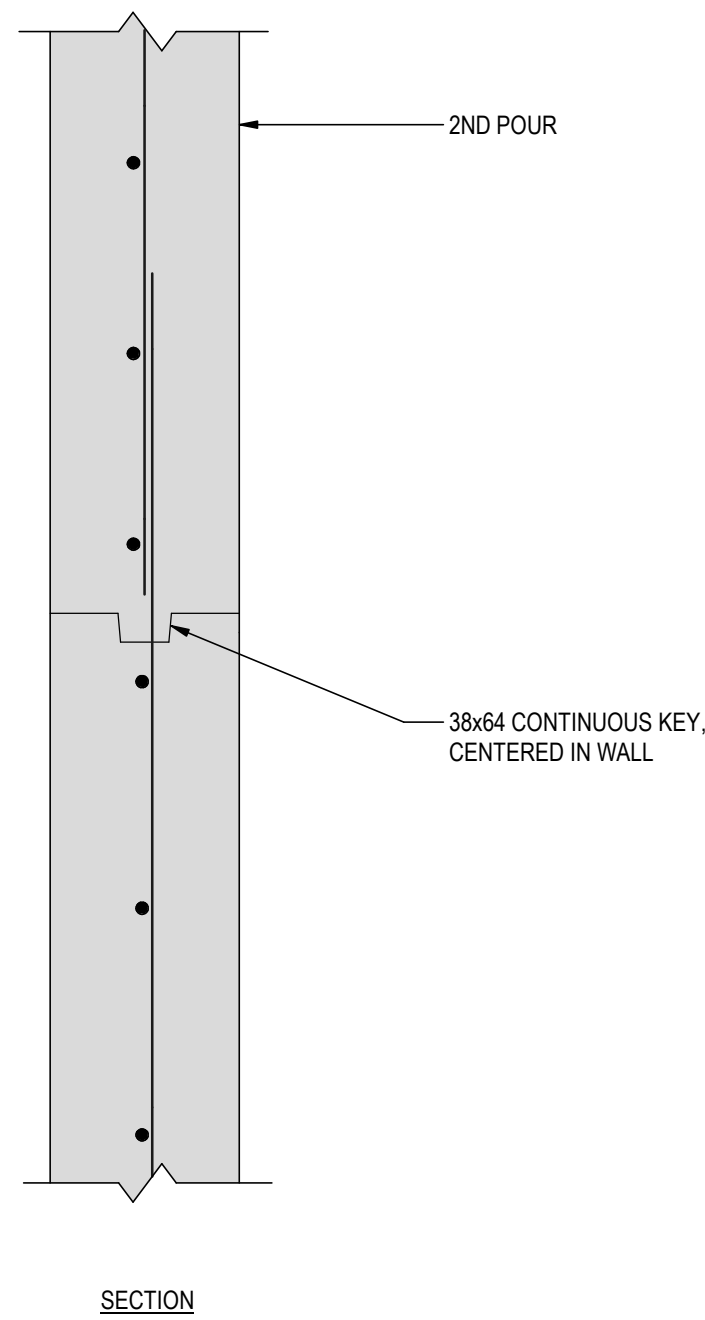
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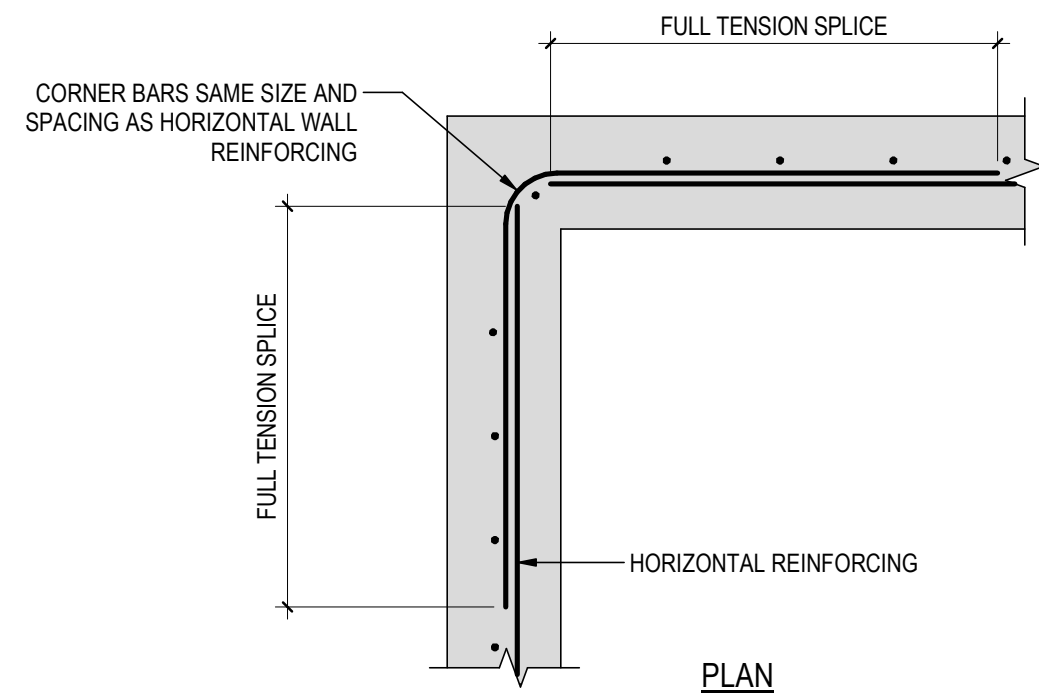
TYPICAL HORIZONTAL CONSTRUCTION JOINT FOR CONCRETE WALLS

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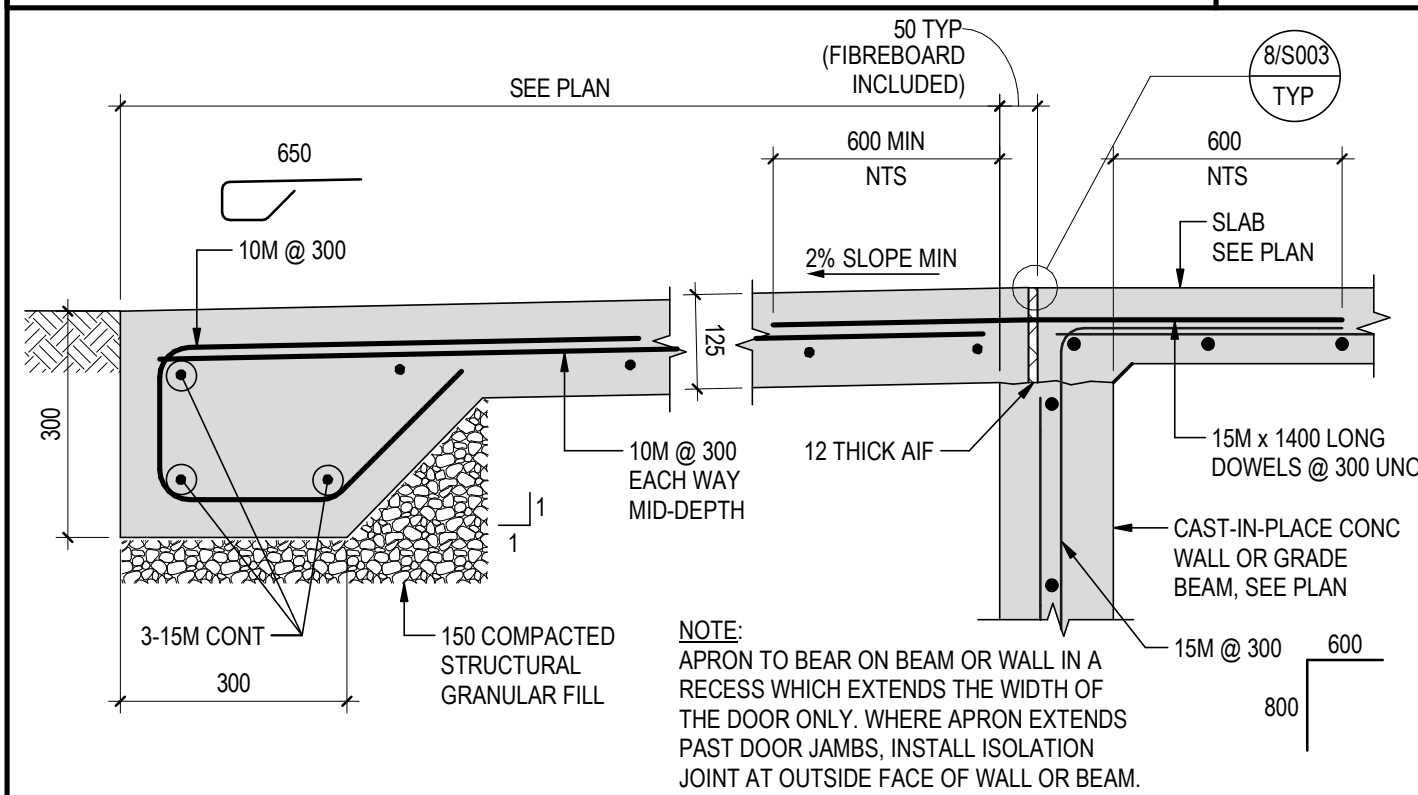
TYPICAL REINFORCEMENT AT CORNER WALL INTERSECTION

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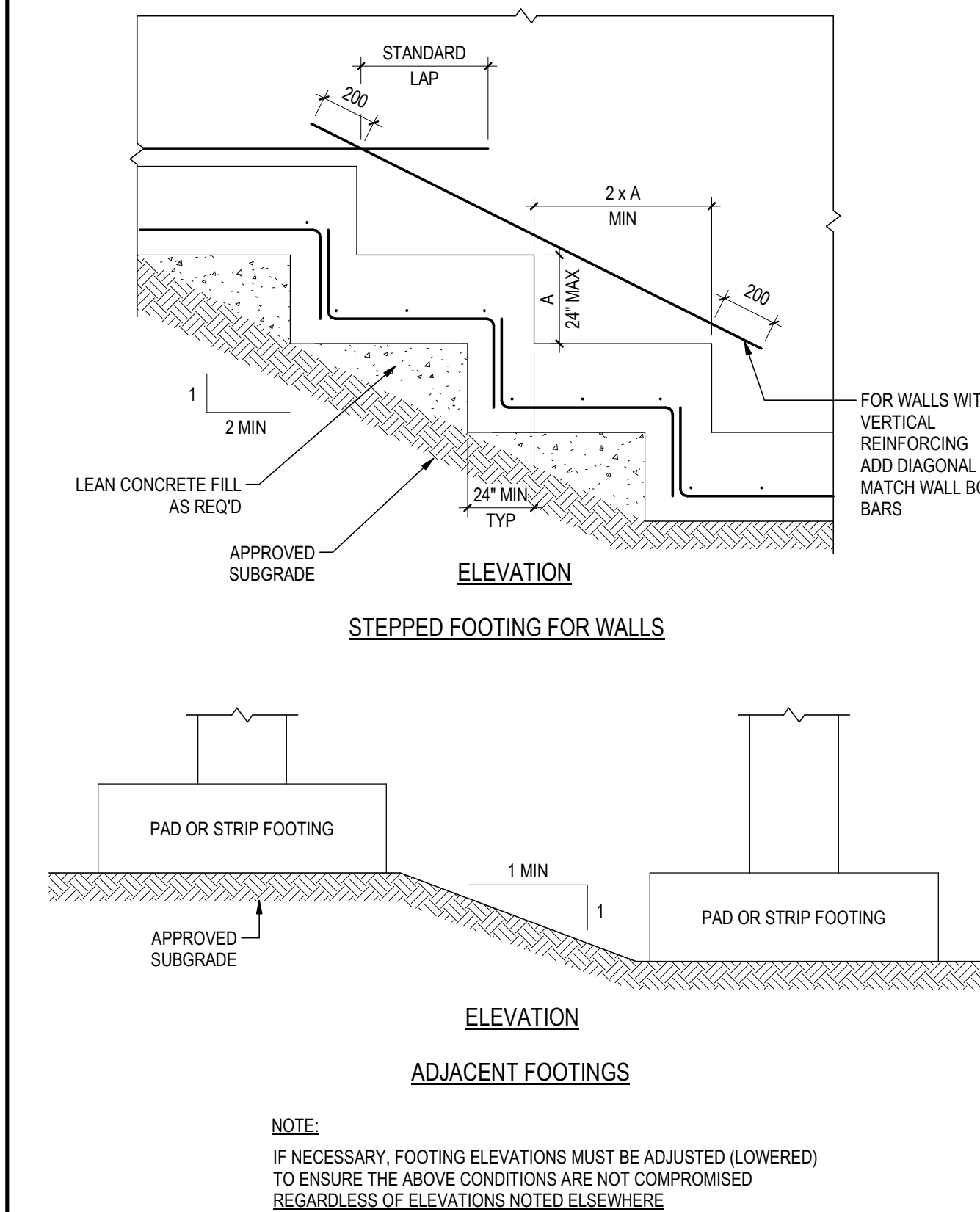
TYPICAL APRON SLAB AT MANDOOR DETAIL

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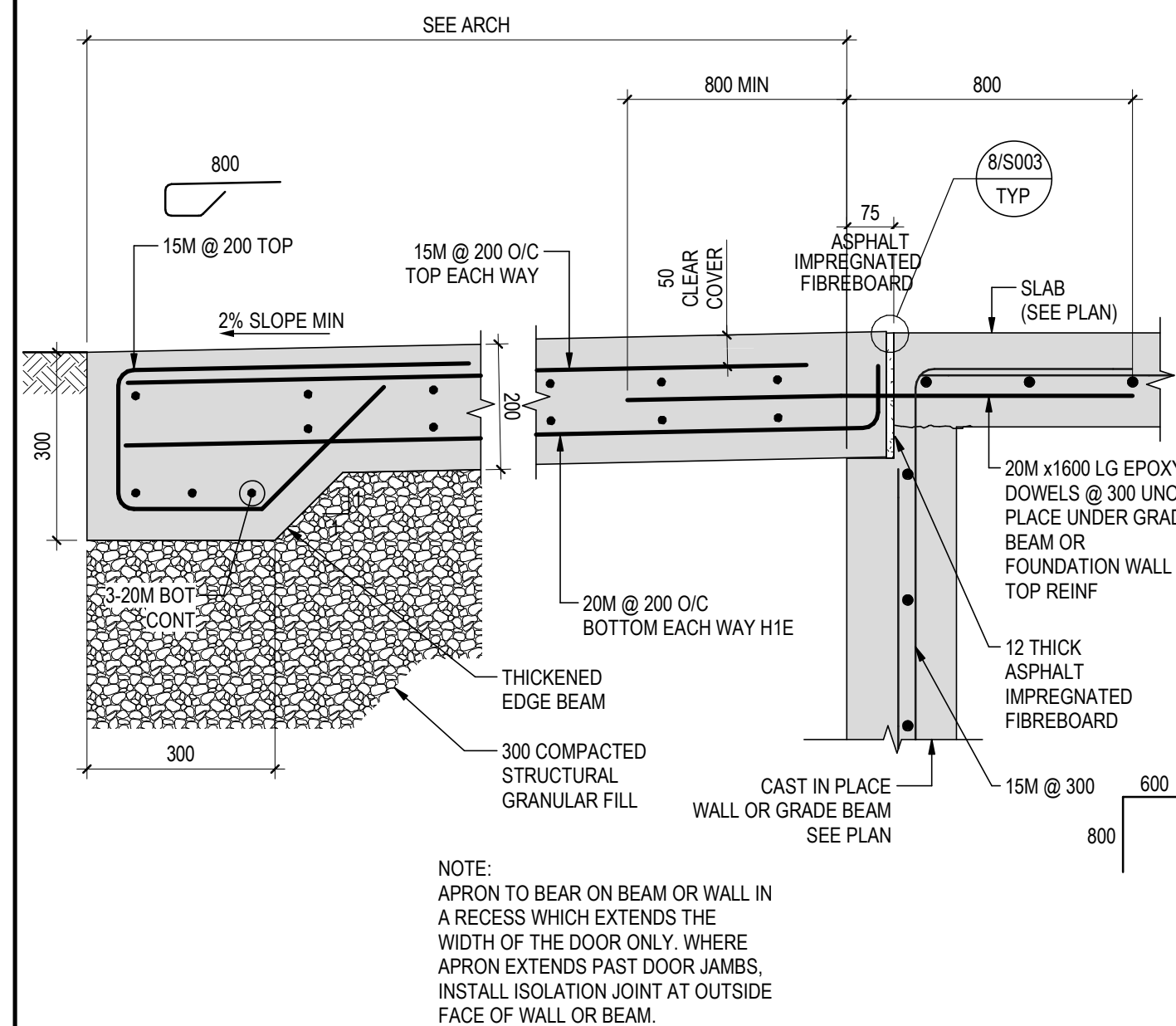
TYPICAL STEPPED FOOTING AND ADJACENT FOOTING DETAILS

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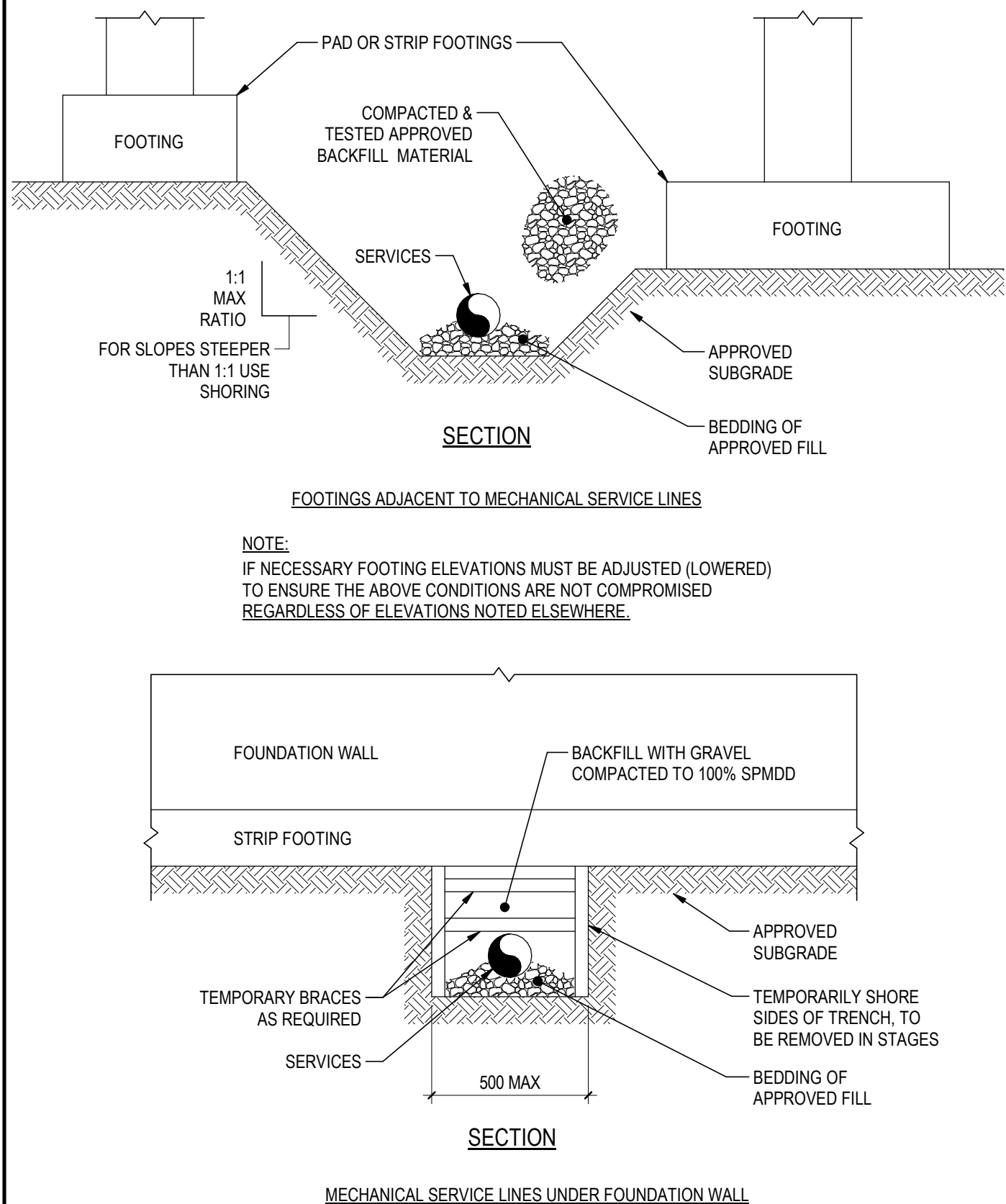
TYPICAL APRON SLAB AT VEHICLE DOOR DETAIL

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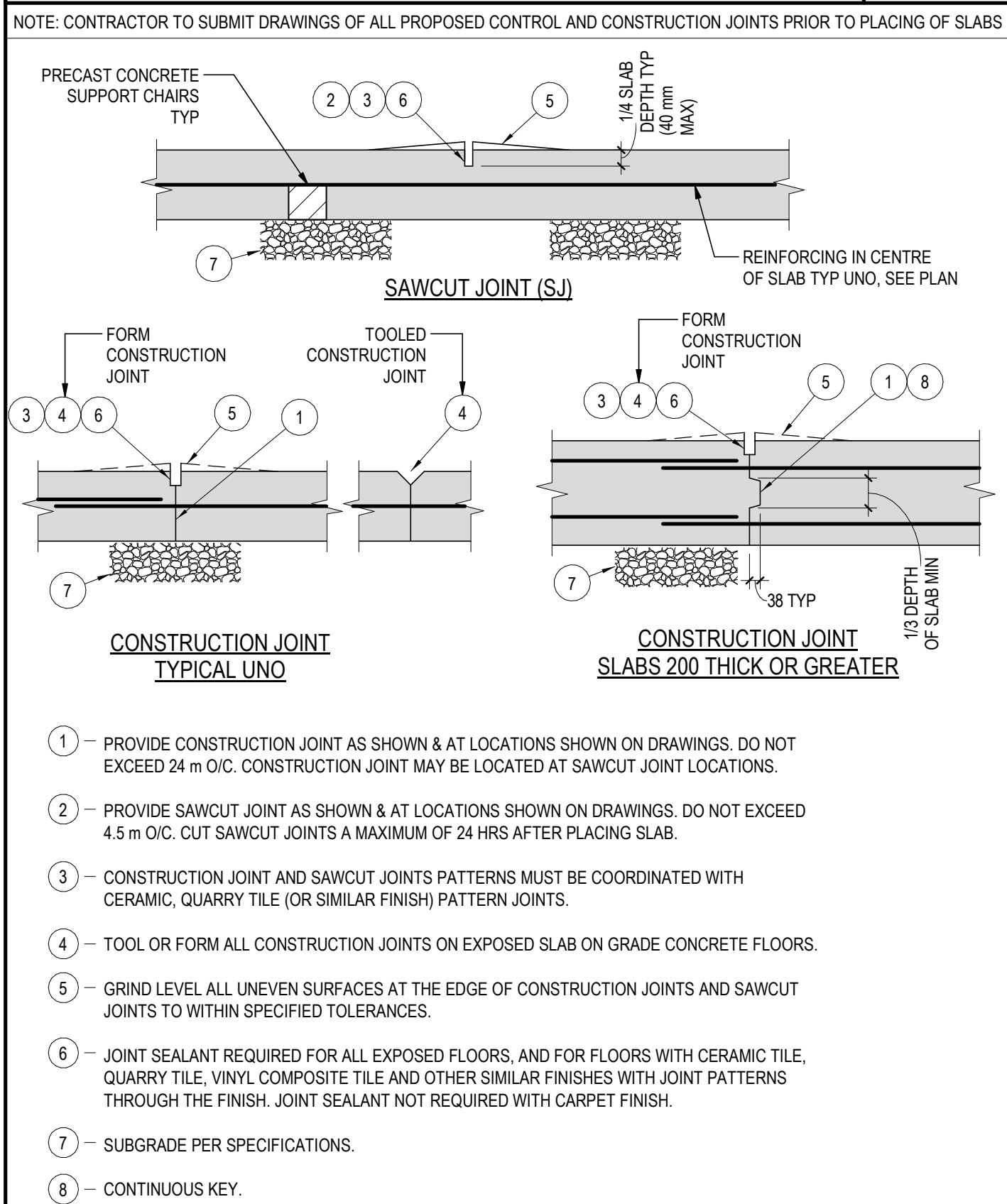
TYPICAL FOOTING NEAR MECHANICAL SERVICES LINES

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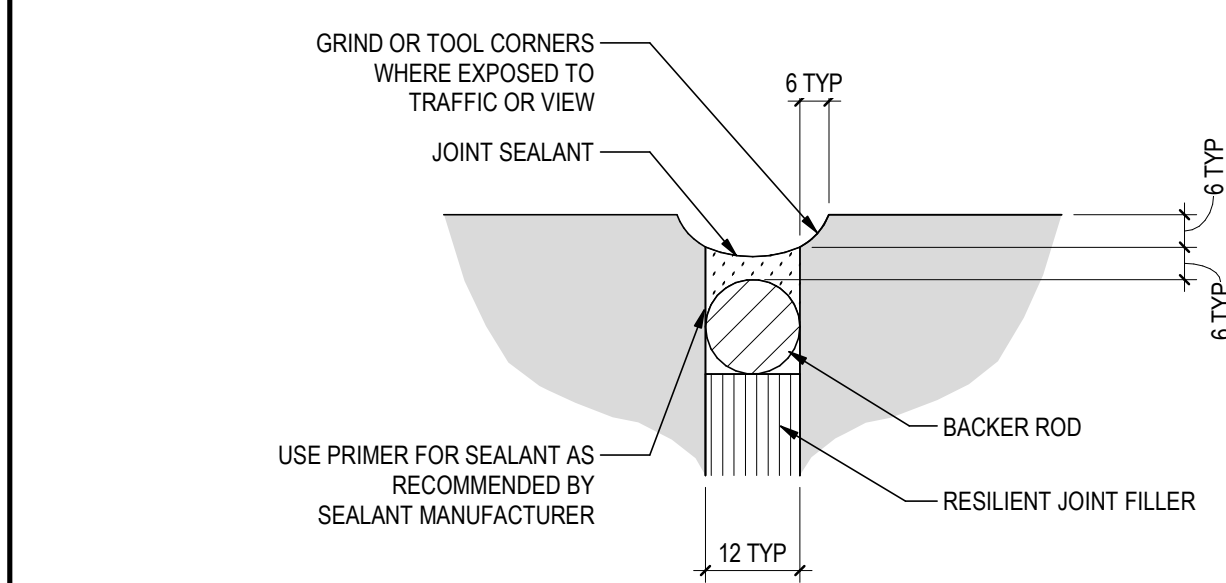
TYPICAL SLAB ON GRADE CONTROL JOINTS

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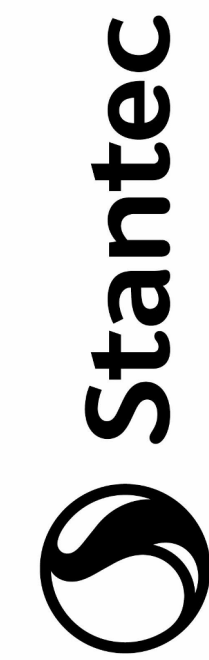
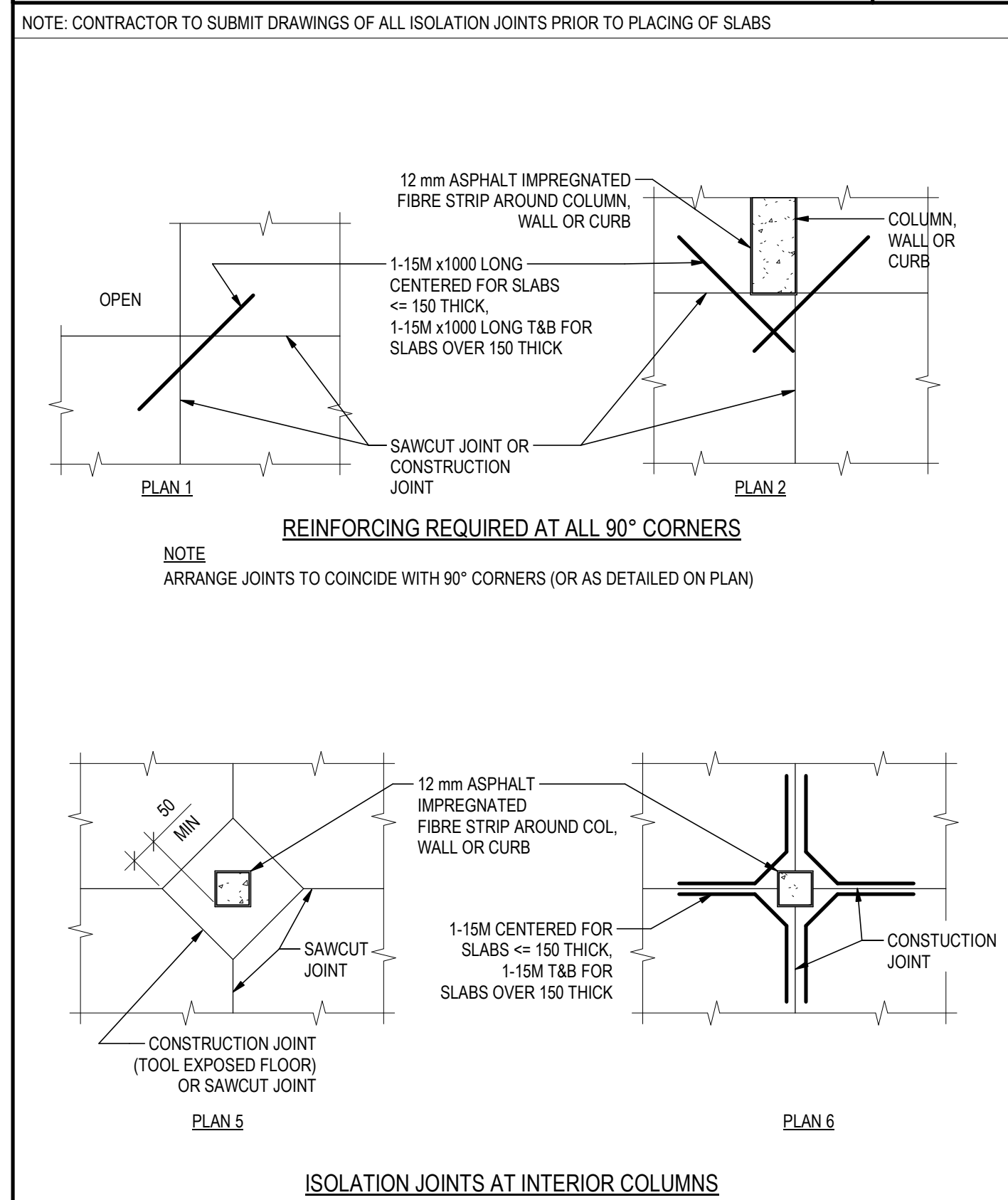
TYPICAL JOINT AND SEALANT DETAIL FOR ISOLATION JOINTS

8



TYPICAL SLAB ON GRADE ISOLATION JOINT DETAILS

9



Stantec Consulting Ltd.
2525 29th St. N.
Calgary, AB T2A 7H8
Tel: (403) 716-8000

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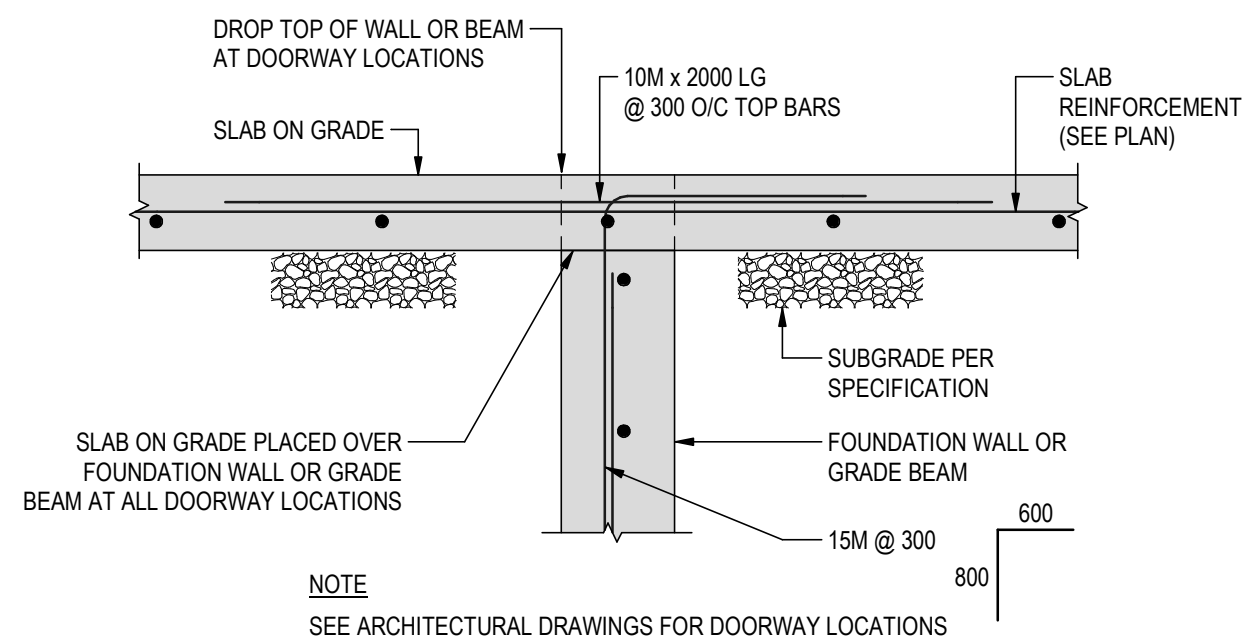
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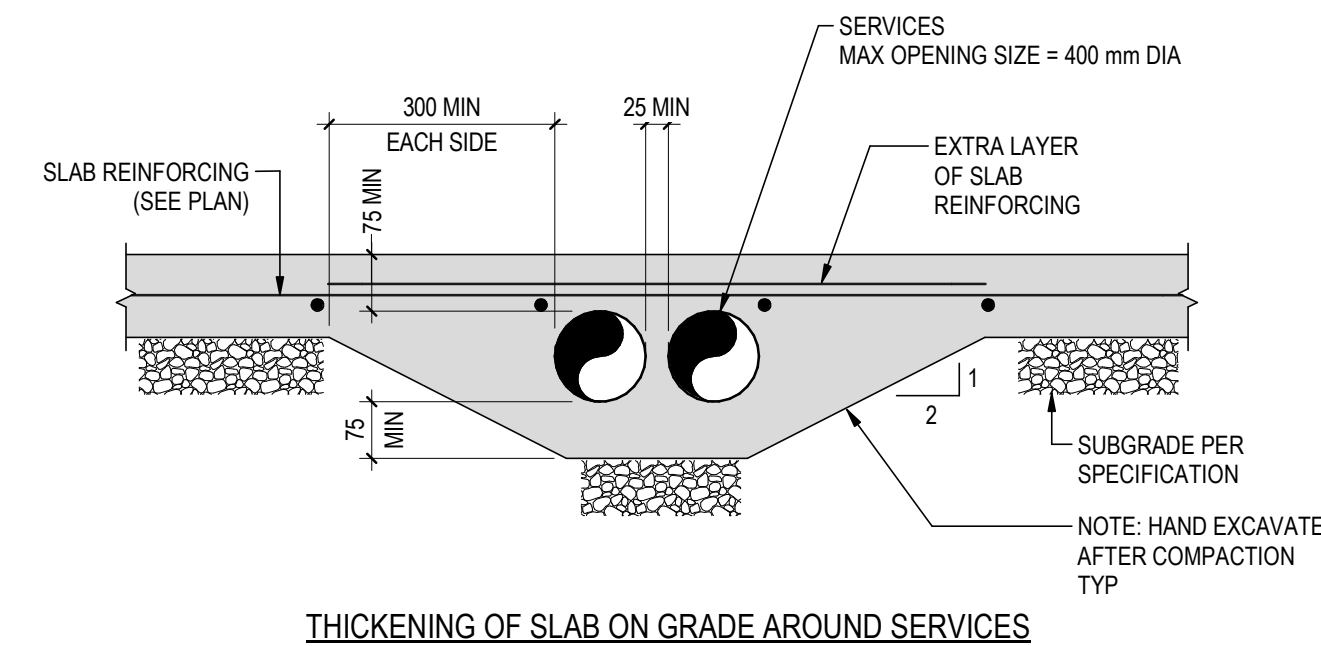


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Parks Canada Agency
Lake Louise
Campground
Operation Centre
Fairview Road
Lake Louise, Alberta
Project No.: 113678159
File Name: N/A
Scale: As indicated
Title
TYPICAL DETAILS
Revision: 5
Drawing No.
S003

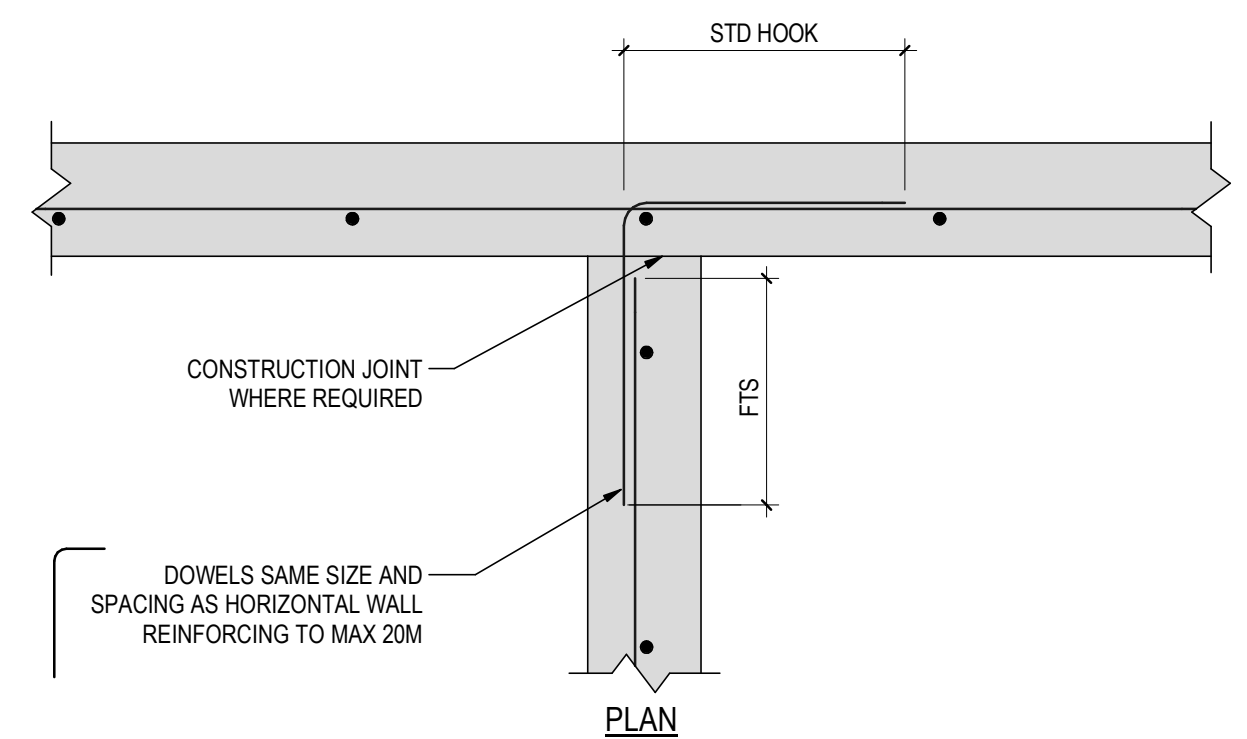
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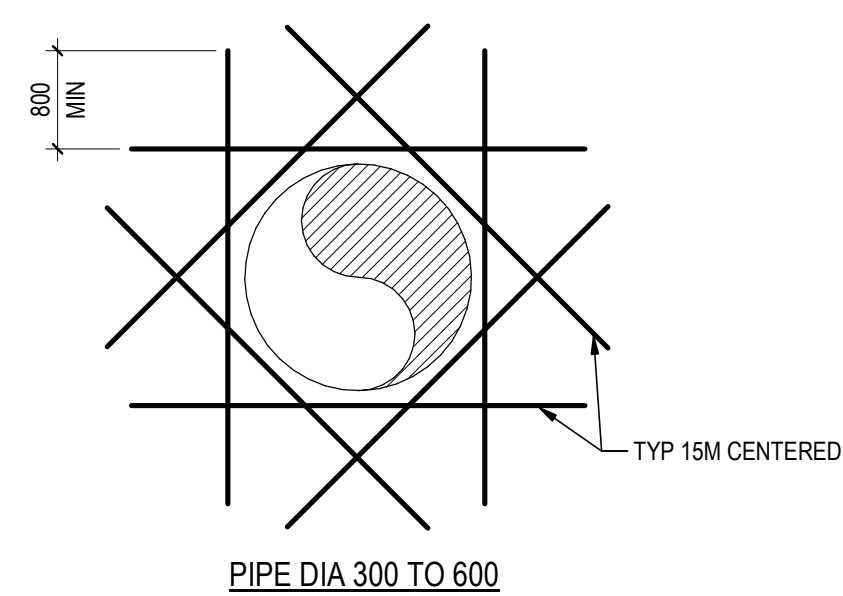
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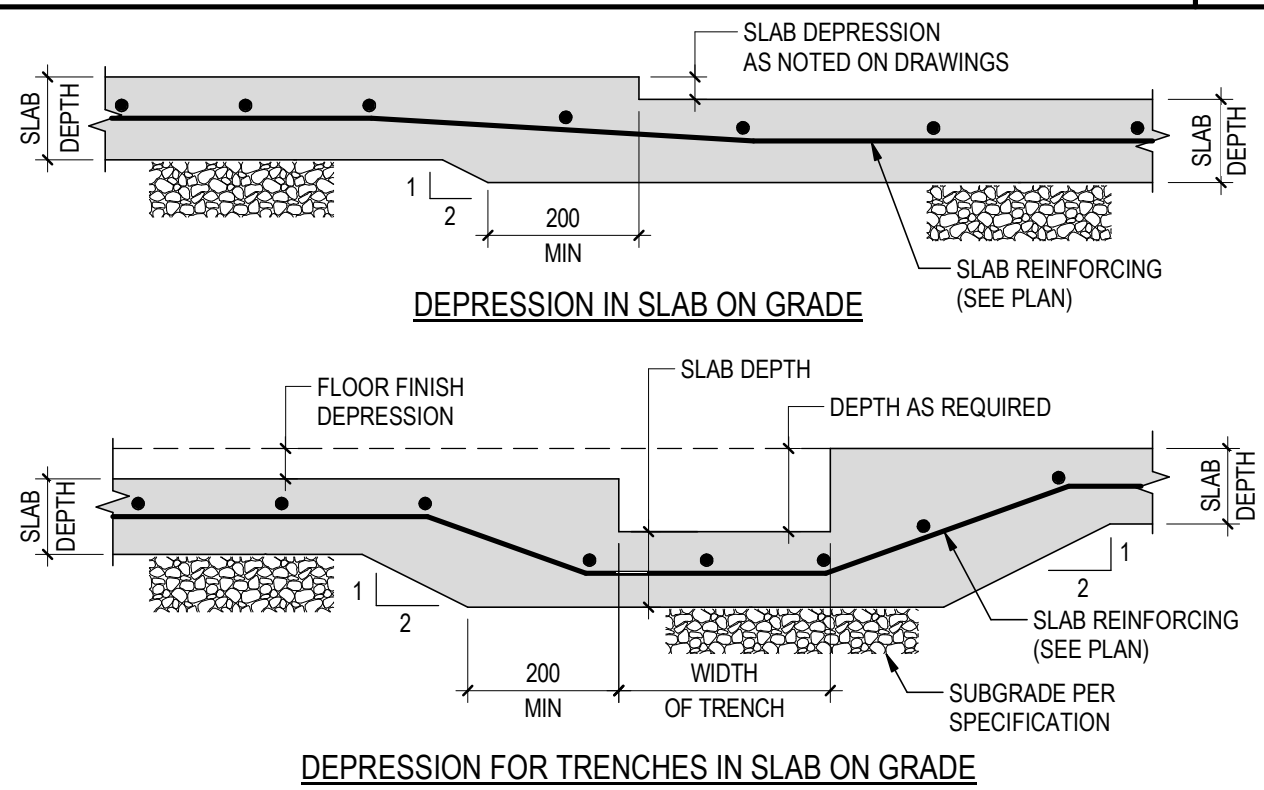
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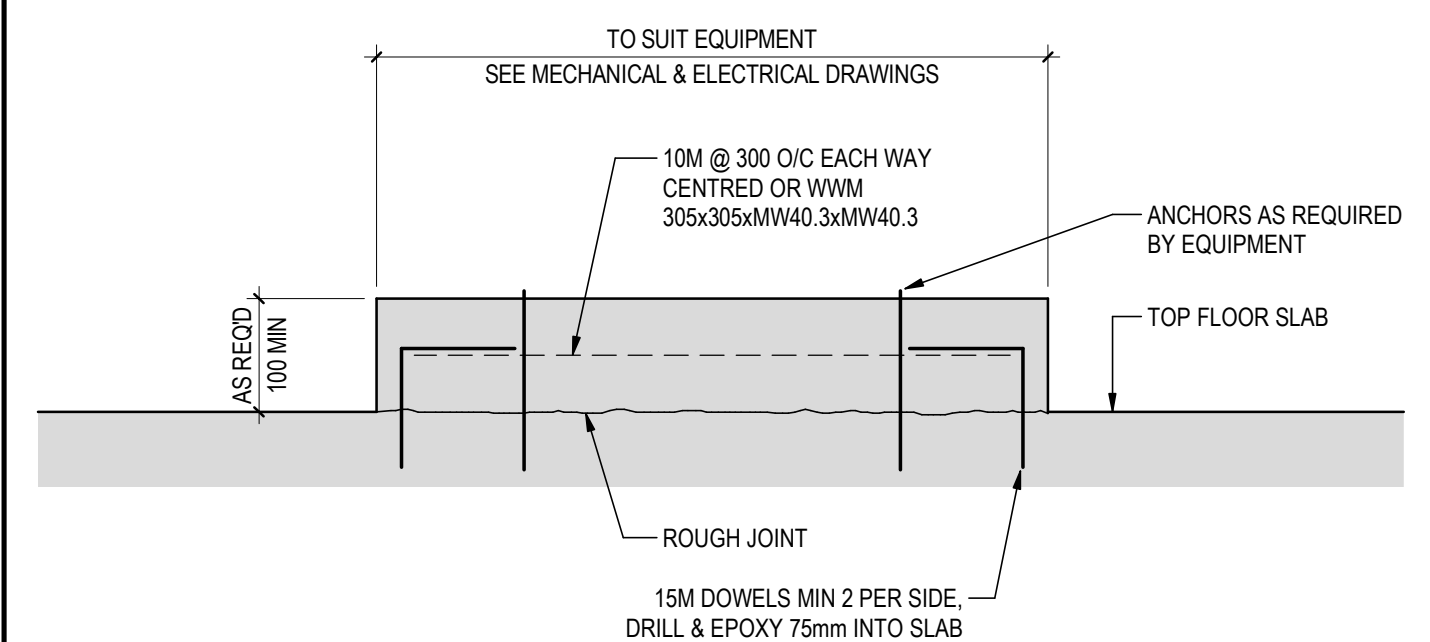
NOTES:

1. NUMBER OF REINFORCING BARS TO BE CUT AT OPENING TO BE KEPT TO A MINIMUM.
2. REINFORCING BARS TO BE KEPT 75 mm CLEAR OF OPENING.
3. PROVIDE STANDARD HOOKS ON ADDITIONAL REINFORCING WHERE IT IS NOT POSSIBLE TO INSTALL REINFORCING WITH REQUIRED LENGTH.

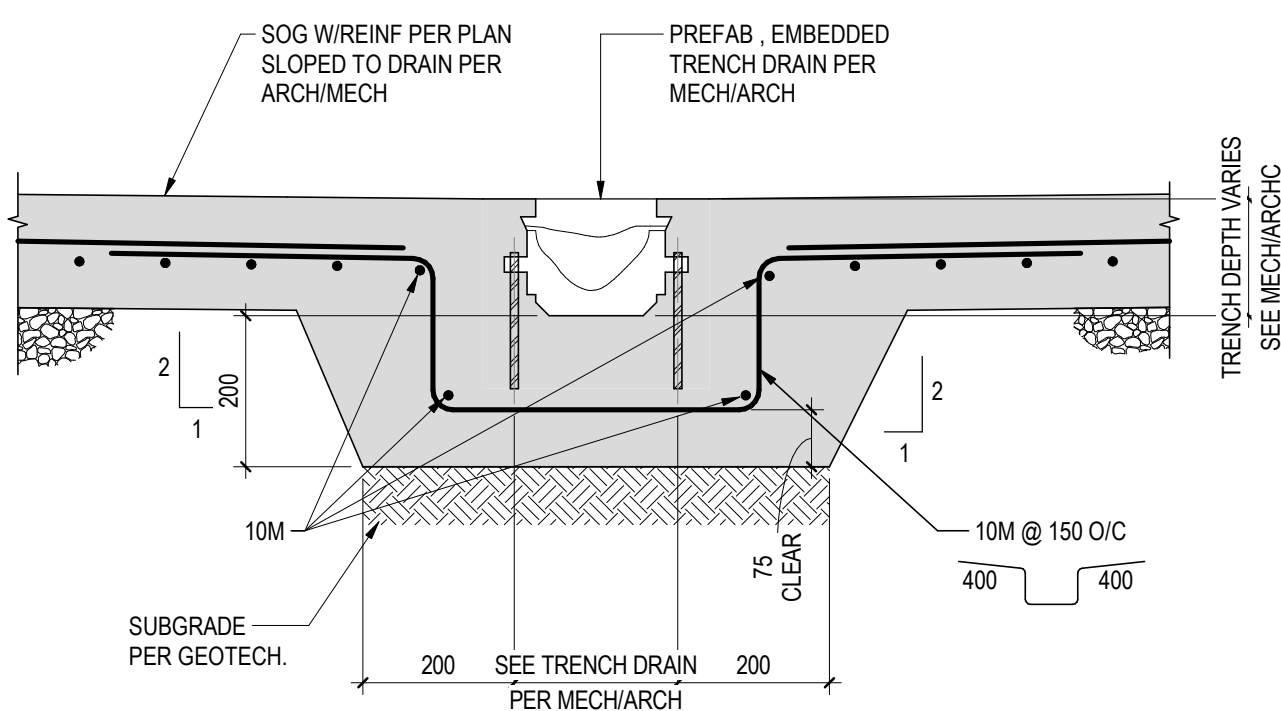
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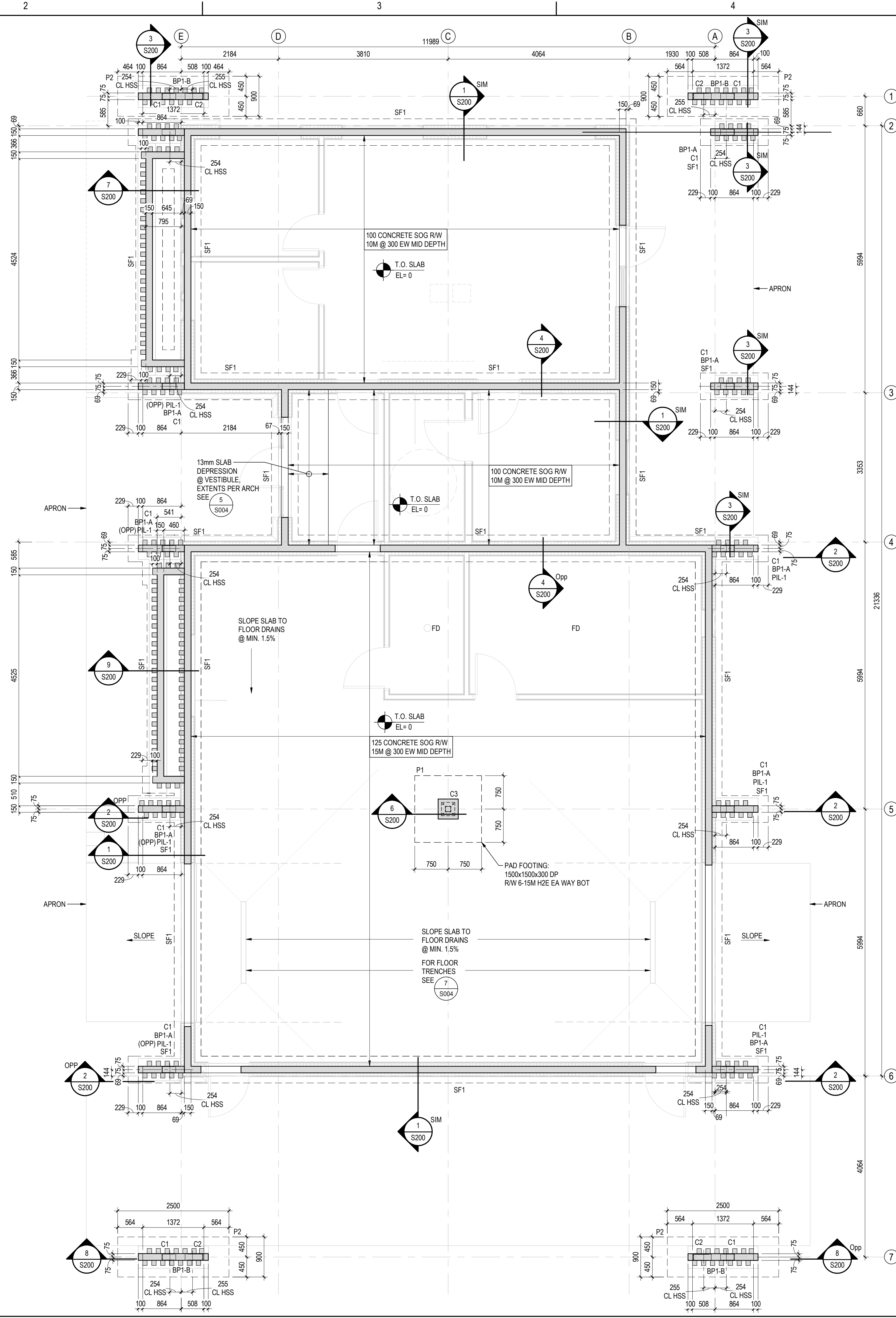
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2017.10.27	CB	2017.10.27	CB	2017.10.27	YYT

©P:\Location In Project Information\1\A\2019 11\312 AM

ORIGINAL SHEET - ARCH D



COLUMN SCHEDULE		
MARK	SIZE	Comments
C1	140x241 TIMBER	
C2	140x292 TIMBER	
C3	HSS127x127x6.4	
C4	191x241 TIMBER	W/38x140 KING STUD EA SIDE FROM U/S OF BEAM TO LSL TOP PLATE

PAD FOOTING SCHEDULE						
MARK	LENGTH	WIDTH	DEPTH	TOP REINF		BOT LONG
				TRANS	TRANS	
P1	1500	1500	300		6-15M	6-15M
P2	2500	900	300	8-15M	8-15M	4-15M

STRIP FOOTING SCHEDULE				
MARK	DIMENSIONS		BOTTOM REINFORCING	
	WIDTH	DEPTH	TRANSVERSE	LONGITUDINAL
SF1	600	250	NA	(3) -15M

NOTES:
FOR DESIGN NOTES SEE DWG S001.
FOR DESIGN TABLES SEE DWG S001.
FOR TYPICAL DETAILS SEE DWGS S002 & S003.

LEGEND
Cx DENOTES COLUMN TYPE
Sfx DENOTES STRIP FOOTING

1 S100 FOUNDATION PLAN
1 : 50

Stantec Consulting Ltd.

2525 29th St. N.

Calgary, AB T2A 7H8

Tel: (403) 716-8000

The Contractor shall verify and be responsible for all dimensions, DO NOT scale the drawing.

The Contractor shall verify and be responsible for all dimensions, DO NOT scale the drawing.

The Contractor shall verify and be responsible for all dimensions, DO NOT scale the drawing.

Consultant

Revision		By		Appd	
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3	2019.06.01	GF	Appd	YFYY.MM.DD	
4	2019.06.06	GF	Appd	YFYY.MM.DD	
5	2019.06.27	GF	Appd	YFYY.MM.DD	

Permit/Seal

PERMIT TO PRACTICE

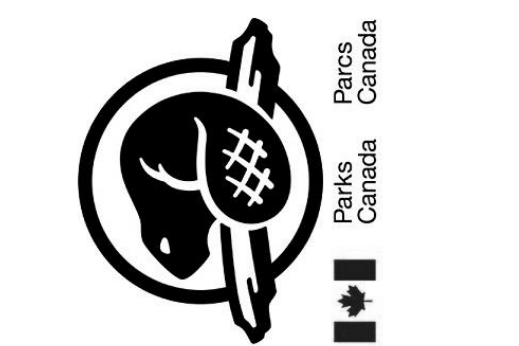
STANTEC CONSULTING LTD.

Signature:

Date: 08-Jan-2019

PERMIT NUMBER: P-0258

The Association of Professional Engineers and Geoscientists of Alberta



Client/Project
Parks Canada Agency

Lake Louise
Campground
Operation Centre
Fairview Road
Lake Louise, Alberta

Project No.: 113678159
File Name: N/A
Scale: As indicated
Title
FOUNDATION PLAN

Revision: 5
Drawing No.
S100

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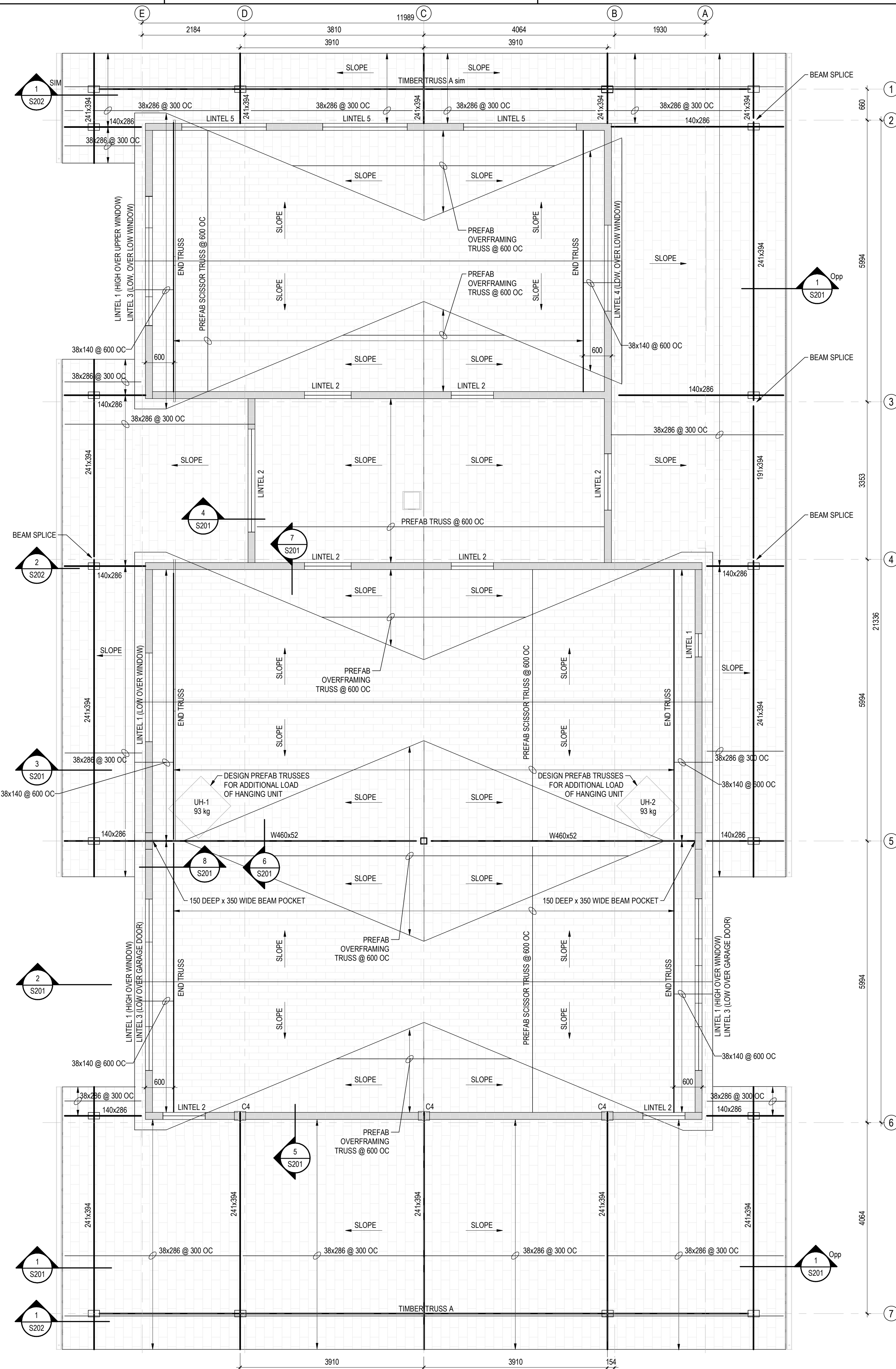
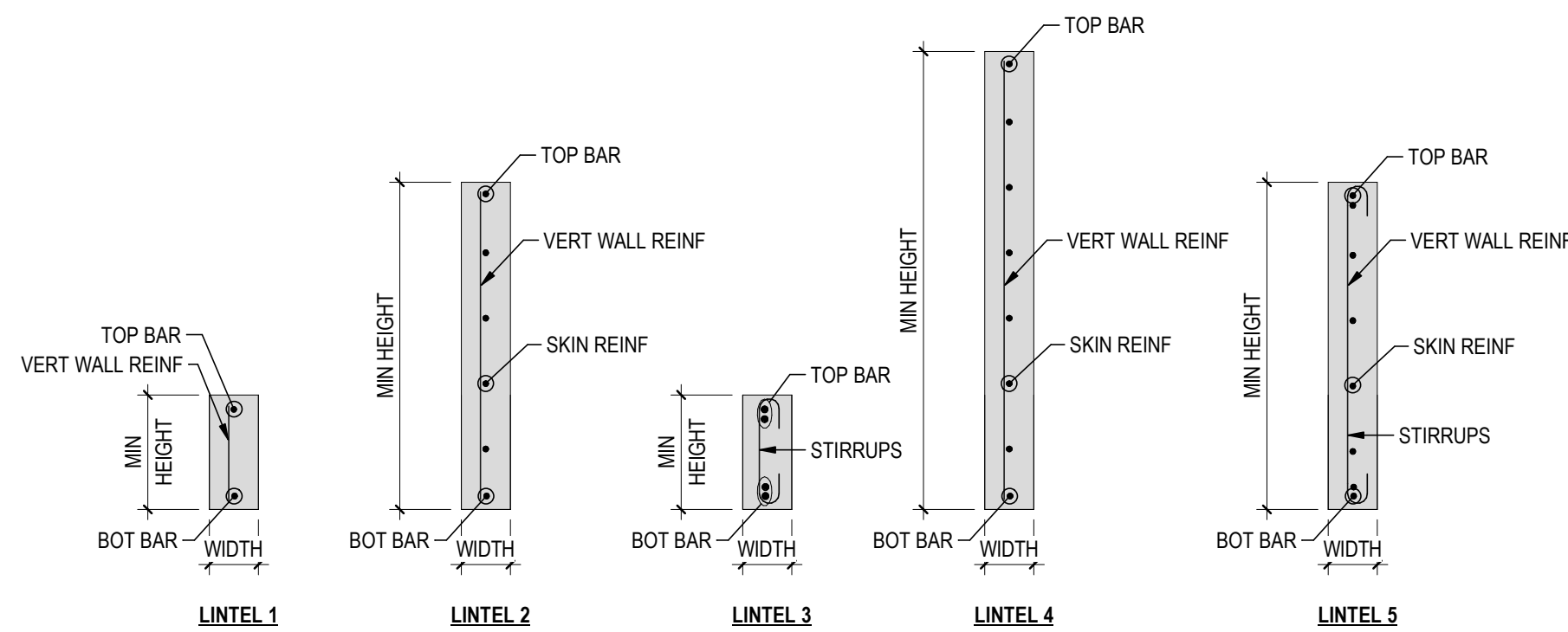
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CONCRETE LINTEL SCHEDULE						
TYPE	WIDTH	MIN HEIGHT	BOT BARS	TOP BARS	STIRRUPS	SKIN REINF
1	152	350	(1)-15M	(1)-15M	NONE REQ'D	15M @ 200 ONLY REQUIRED IF ACTUAL HEIGHT IS GREATER THAN 750
2	152	1000	(1)-15M	(1)-15M	NONE REQ'D	15M @ 200 OC
3	152	350	(2)-20M	(2)-20M	10M @ 150 OC	15M @ 200 ONLY REQUIRED IF ACTUAL HEIGHT IS GREATER THAN 750
4	152	1800	(1)-15M	(1)-15M	NONE REQ'D	15M @ 200 OC
5	152	1000	(2)-15M	(2)-15M	10M @ 150 OC	15M @ 200 OC

NOTES:
1. TOP AND BOTTOM BARS TO HAVE FULL DEVELOPMENT OR HOOKS EACH END FOR ALL LINTELS.



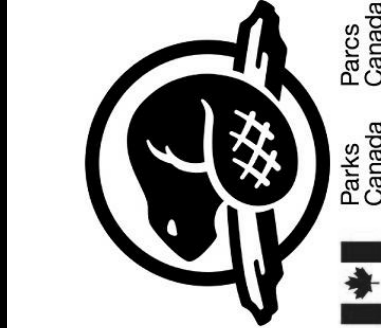
ROOF FRAMING PLAN

1
S101

1:50

Consultant

Permit/Seal



Client/Project
Parks Canada Agency

Lake Louise
Campground
Operation Centre
Fairview Road
Lake Louise, Alberta

Project No.: 113678159

File Name: N/A

Scale: As indicated

TP	GB	KF	2019.01.04
Dwn.	Dgn.	Chkd.	YYYY-MM-DD

Title

ROOF FRAMING PLAN

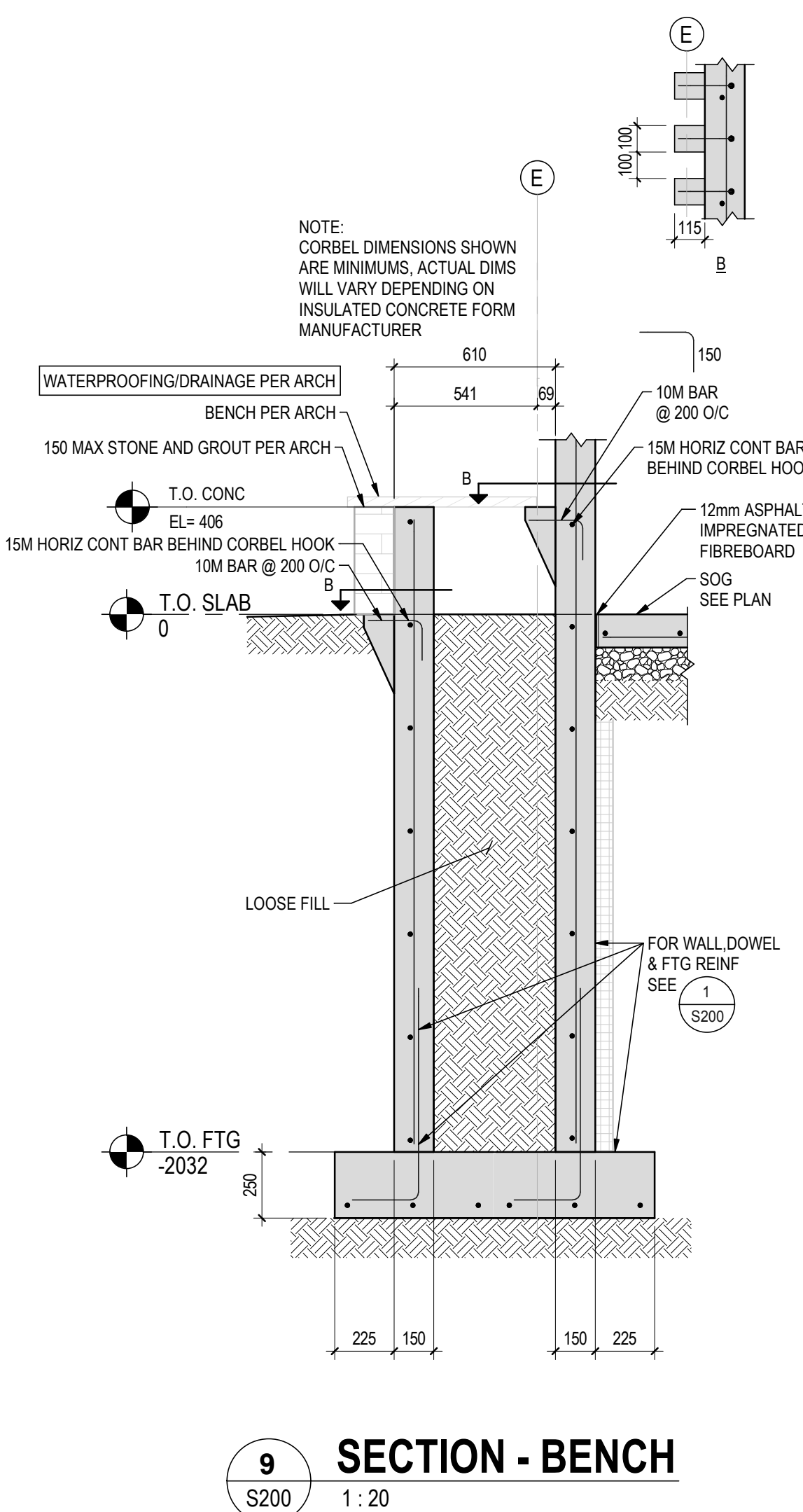
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Drawing No.

S101

Consultant

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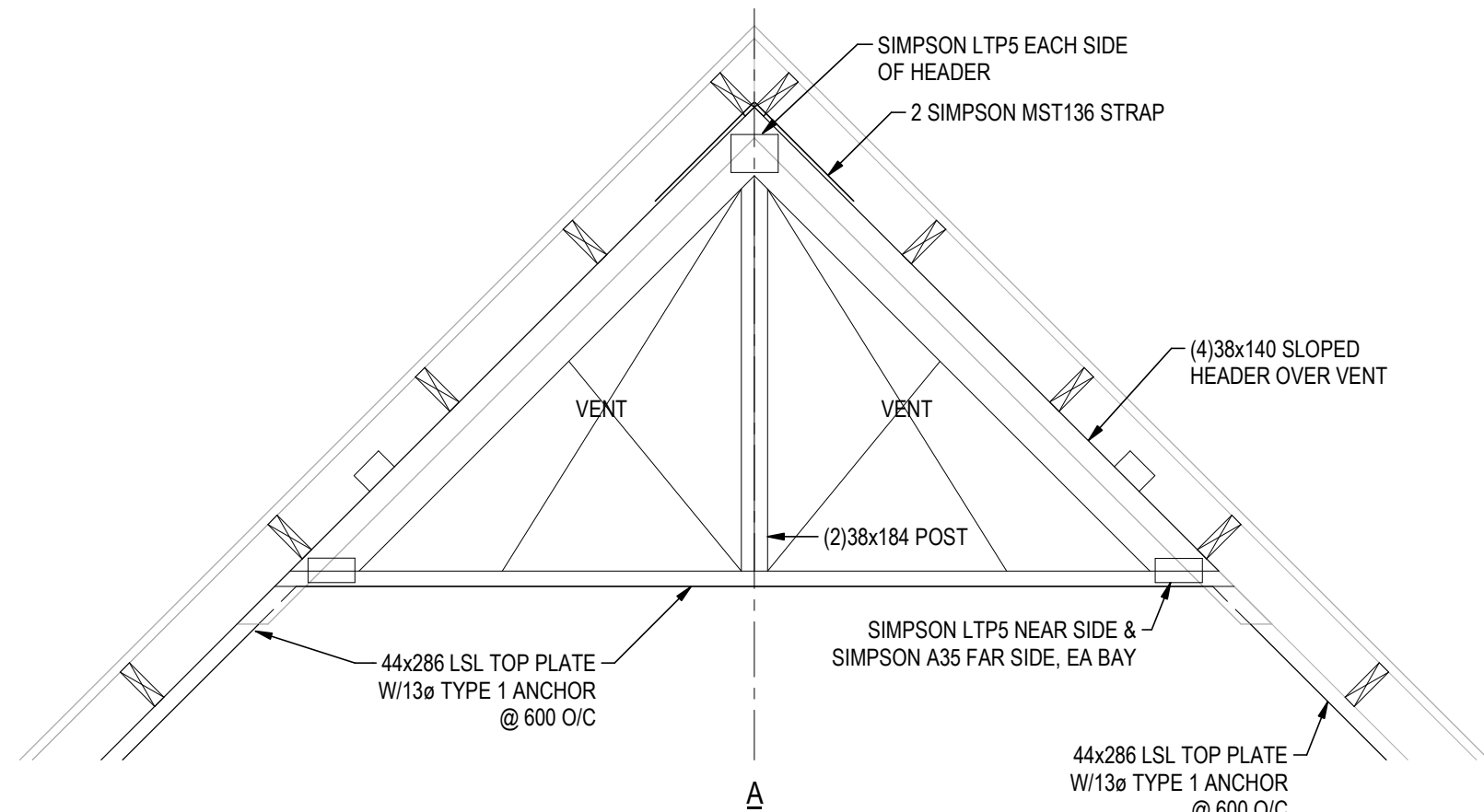


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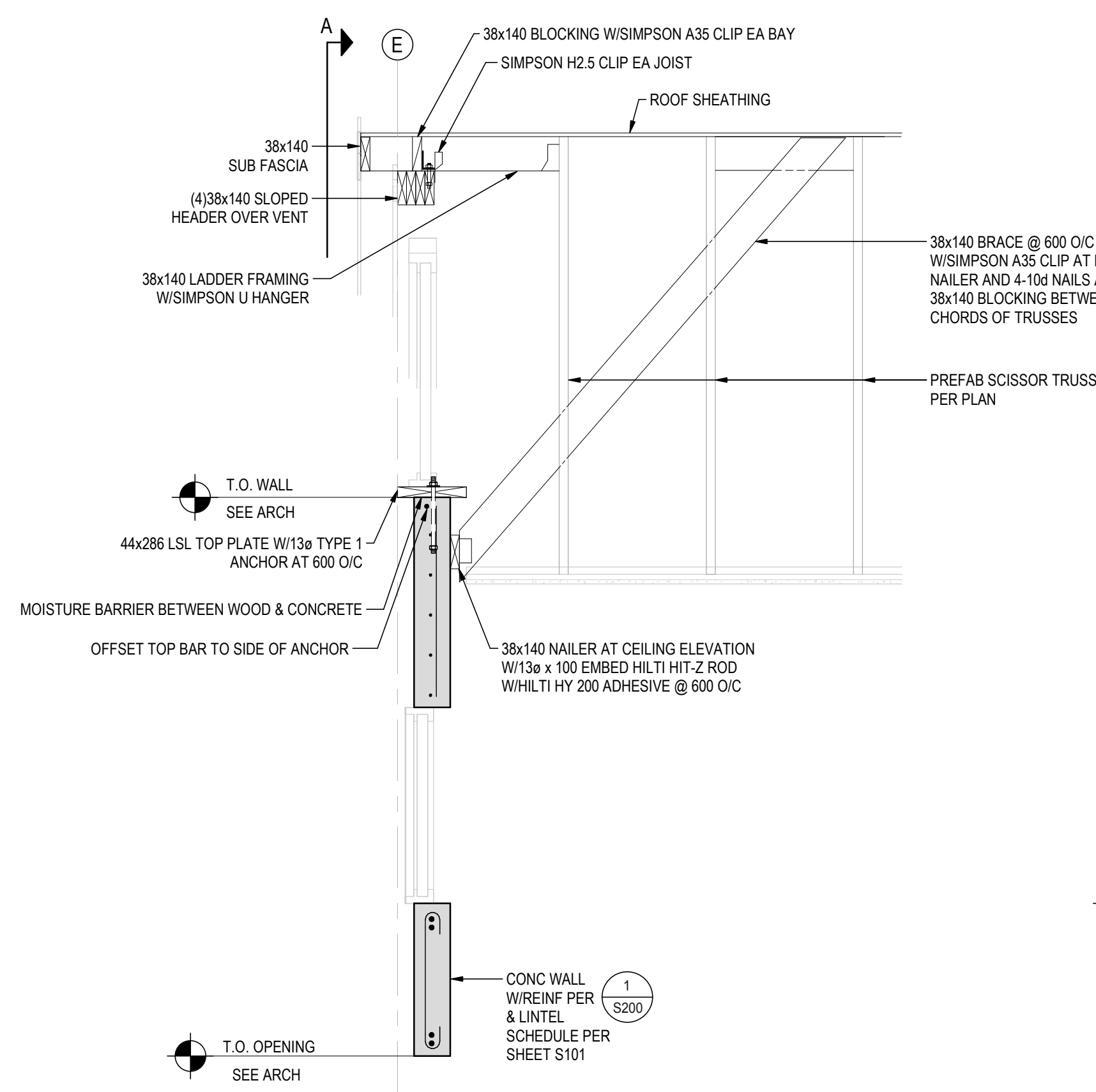
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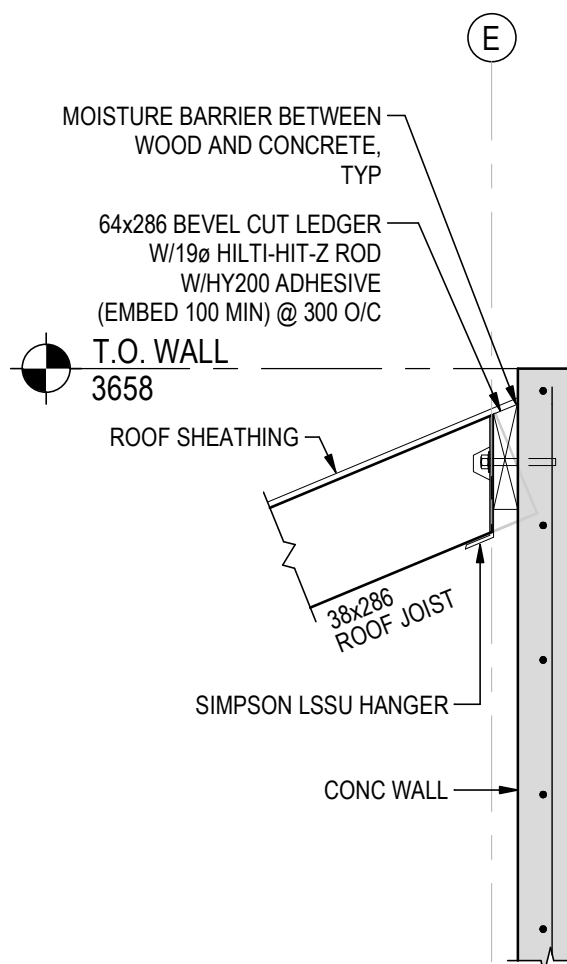
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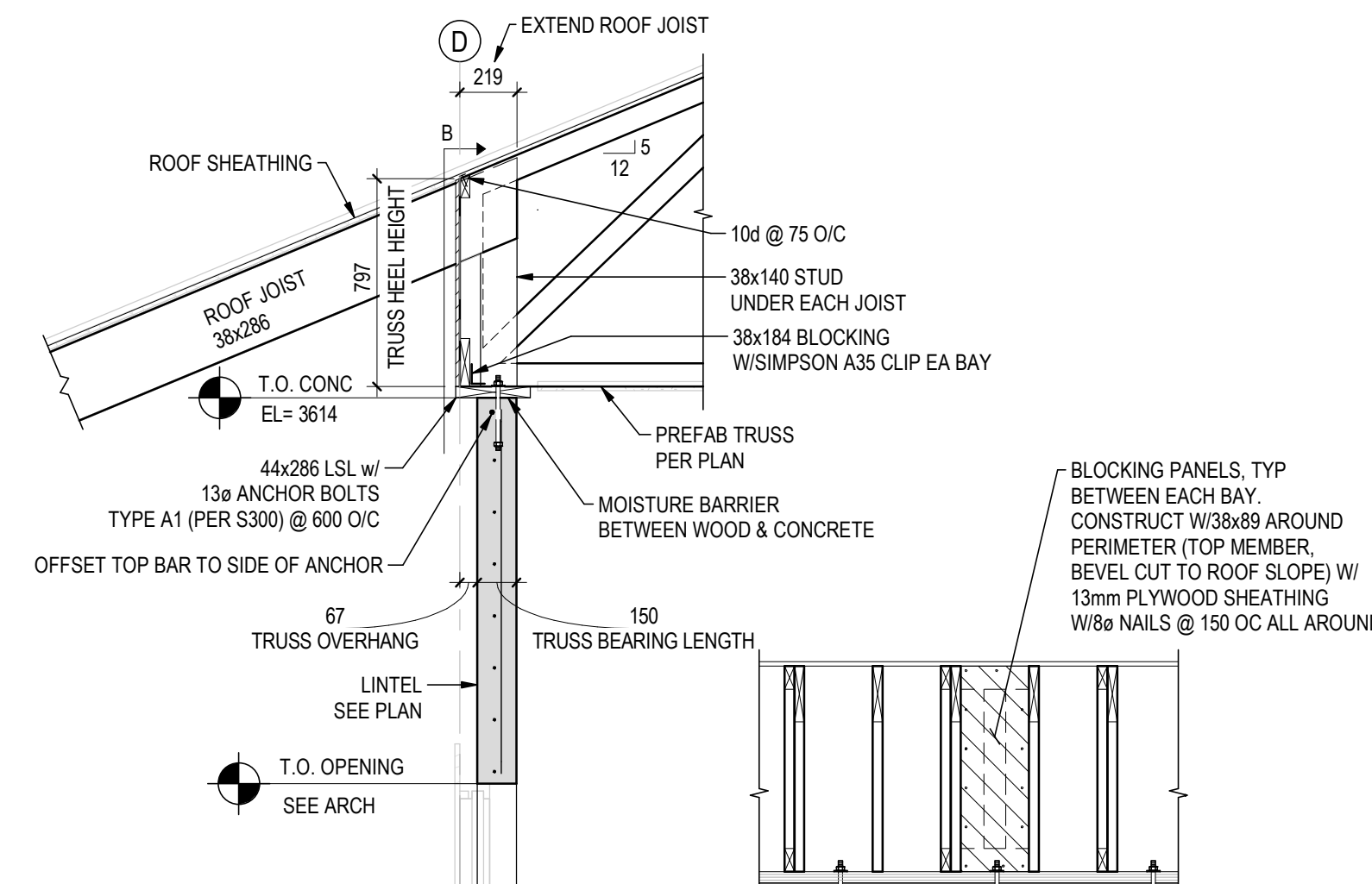
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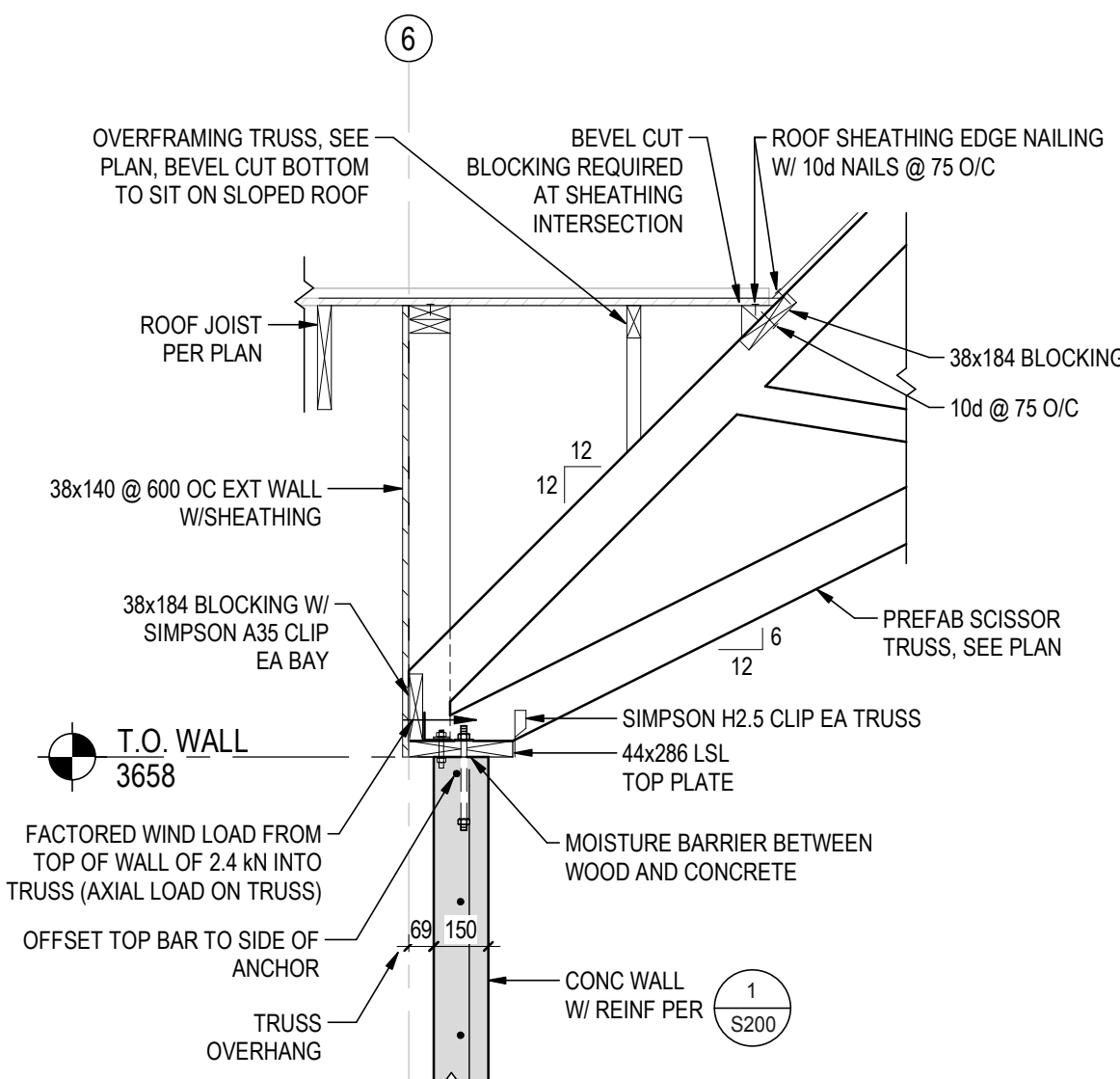
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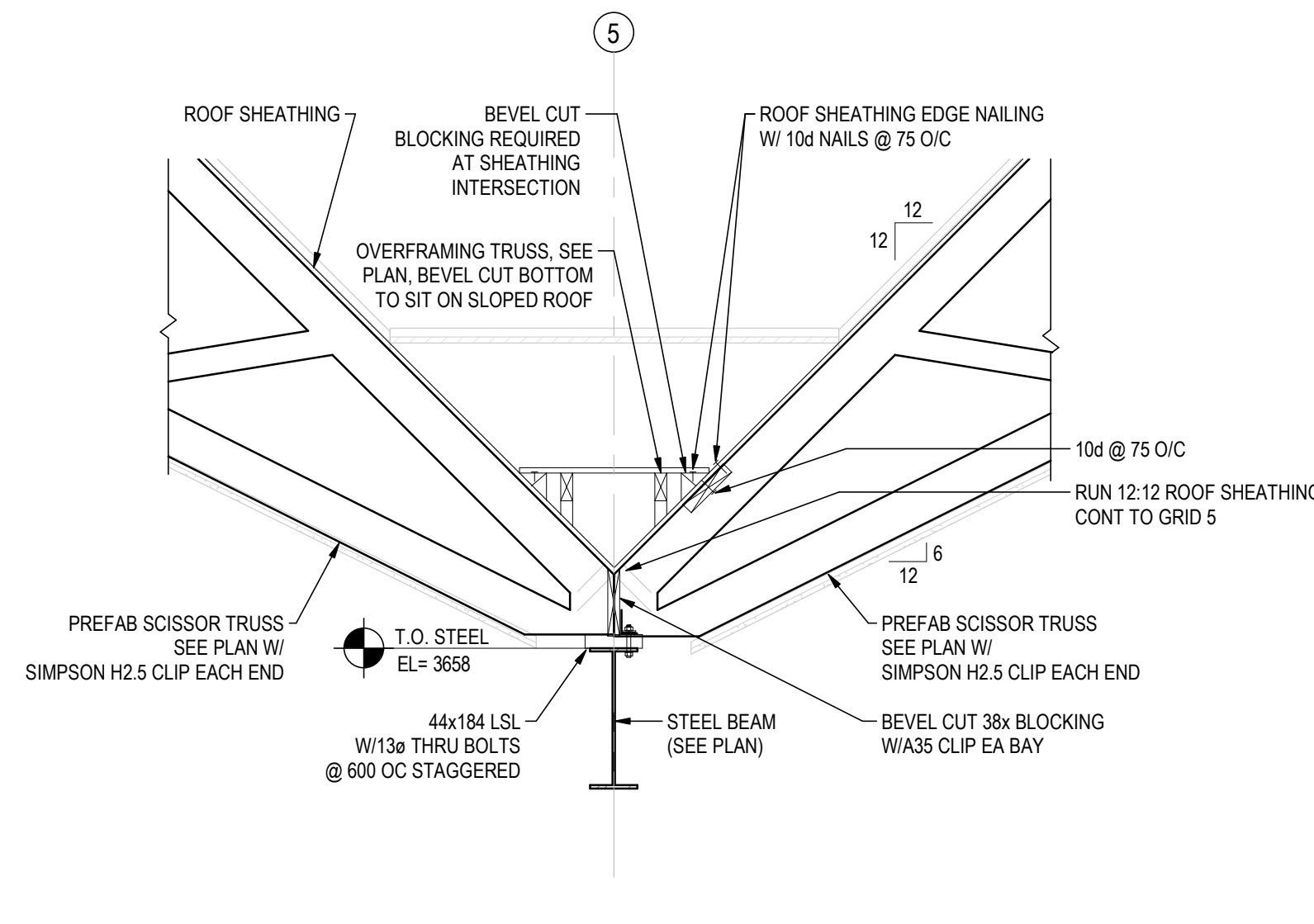
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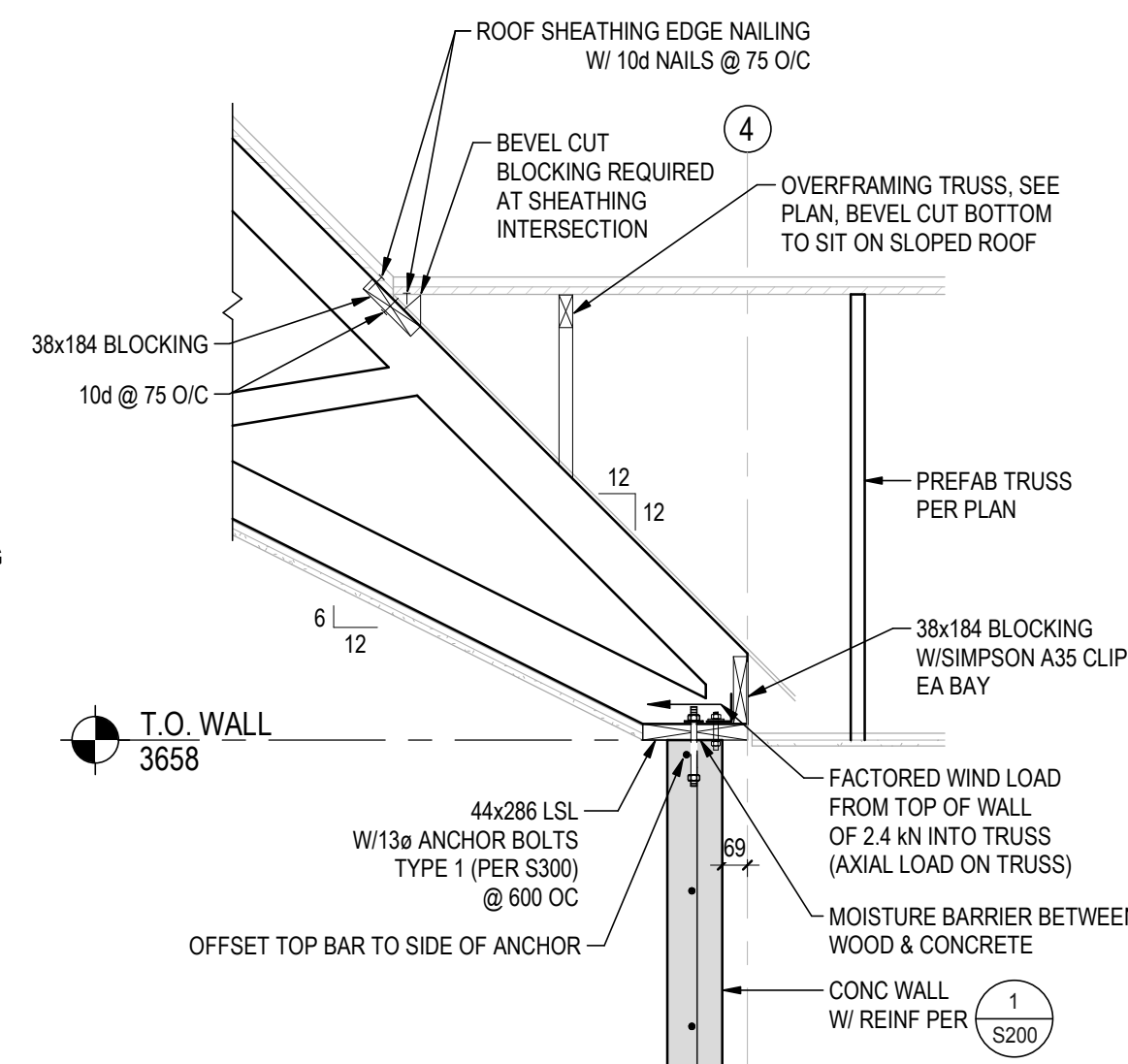
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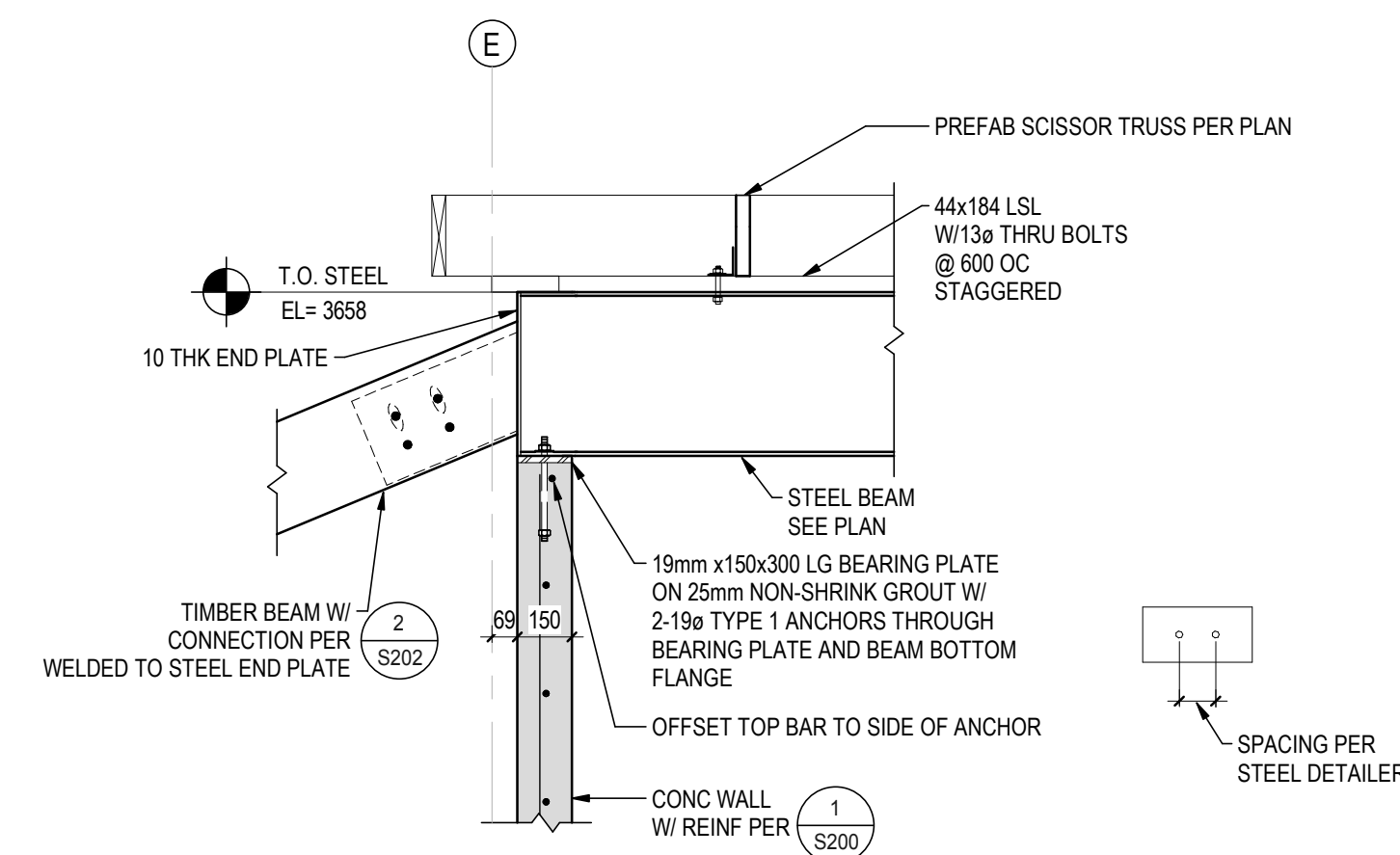
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6 SECTION
S201 1:20



7 SECTION
S201 1:20

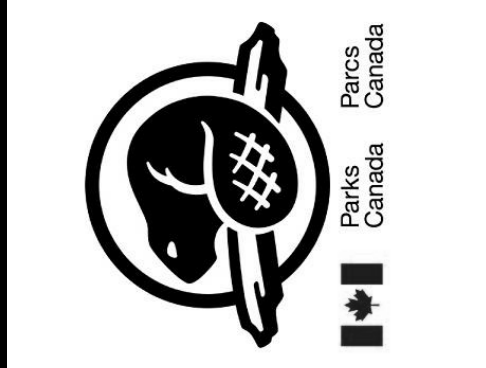
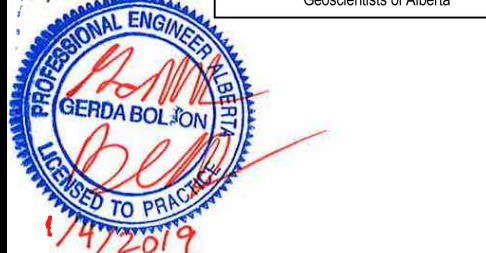


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Permit/Seal	PERMIT TO PRACTICE STANTEC CONSULTING LTD. Signature: <i>[Signature]</i> Date: 08-Jan-2019 PERMIT NUMBER: P-0258 The Association of Professional Engineers and Geoscientists of Alberta
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Client/Project
Parks Canada Agency
Lake Louise
Campground
Operation Centre
Fairview Road
Lake Louise, Alberta

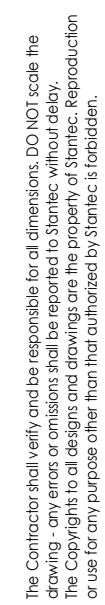
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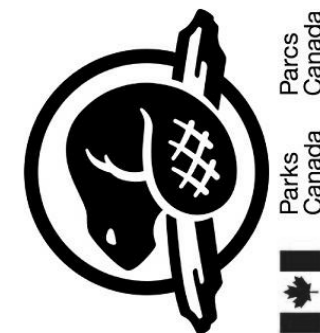
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Revision: 5
Drawing No.

S201

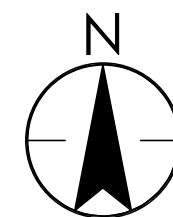


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Signature: *Diana G. [illegible]*
08-Jan-2019
PERMIT NUMBER: P 0258
Association of Professional Engineers and
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S300





1 **PR**
M100 1:50

1 : 50

1. VENT ALL PLUMBING IN ACCORDANCE WITH THE NATIONAL PLUMBING CODE 2015.
2. BELOW GRADE SERVICES TO BE COORDINATED WITH STRUCTURAL FOOTING AND PILE LOCATIONS TO AVOID INTERFERENCE.
3. VENT ALL PRVs TO ATMOSPHERE.
4. MAKE CONNECTIONS TO SITE SERVICES APPROXIMATELY 1.0m FROM BUILDING. COORDINATE WITH STRUCTURAL FOR ADEQUATE FILL REQUIREMENTS.
5. PROVIDE TRAP PRIMERS TO ALL DRAINS AS PER MECHANICAL SPECIFICATIONS.
6. ALL PLUMBING FIXTURES TO HAVE ISOLATION VALVES.
7. ALL NEW PIPING TO BE COORDINATED WITH NEW DUCT WORK TO AVOID CONFLICTS.
8. INDIVIDUAL FIXTURE PIPE SIZES AS PER PLUMBING FIXTURE SCHEDULE.
9. PIPE PRESSURE OVERFLOW RELIEF LINES TO THE NEAREST INDIRECT DRAIN.
10. TOP OF SLAB ELEVATION IS 100.00.

- 1 INCOMING 250P DOMESTIC COLD WATER. CONNECT TO SITE SERVICES 1.0M FROM BUILDING. REFER TO CIVIL SITE DRAWINGS FOR CONTINUATION.
- 2 LEAVING 1000 SANITARY AT 99.29 LEAVING INVERT. CONNECT TO SITE SERVICES 1.0M FROM BUILDING. REFER TO CIVIL SITE DRAWINGS FOR CONTINUATION.
- 3 250P WATER SERVICE ENTRY FROM BELOW TO DOMESTIC COLD WATER METER IN SHOP / WORK AREA. REFER TO DETAIL 7 ON DRAWING M3000 FOR DETAILS.
- 4 CEILING MOUNTED DOMESTIC WATER HEATER DWH1. PROVIDE ACCESS PANEL IN COMPOUND CEILING. REFER TO DETAIL 10 ON DRAWING M300.
- 5 INCOMING 300P UNDER SLAB PROPANE LINE FROM 6000L PROPANE TANK DESIGNATED AND SELECTED BY CANWEST PROPANE. REFER TO SPECIFICATIONS.
- 6 ELECTRONIC TRAP PRIMER TO BE INSTALLED IN MECH/ ELEC ROOM.
- 7 OIL INTERCEPTOR OLI1 WITH HEAVY DUTY COVER.
- 8 REDUCE ENTERING WATER PRESSURE TO 276kPa FROM 586kPa.
- 9 REDUCE PROPANE PRESSURE TO 5.0kPa.
- 10 1500 PVC RADON PENT PIPE TO ABOVE SLAB IN MECHANICAL ROOM TO BE CAPPED AT 450mm A.F.F. FOR FUTURE RADON FAN INSTALLATION. VENT TERMINATES BELOW SLAB AT AGGREGATE. REFER TO ARCHITECTURAL DRAWINGS.
- 11 REDUCE PROPANE PRESSURE TO 3.5 kPa.
- 12 OIL INTERCEPTOR SANITARY VENTING TO WALL AND THROUGH ROOF.
- 13 REDUCE PROPANE PRESSURE TO 1.2 kPa.
- 14 PROVIDE 500 SLEEVE THROUGH SUBSLAB STRIP FOOTINGS FOR RADON MIGRATION.
- 15 PROVIDE CAPPED DOMESTIC COLD AND HOT WATER 200 CONNECTION FOR FUTURE WASH.

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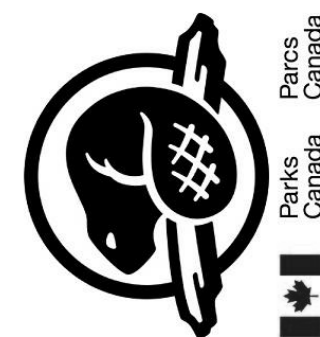
Date Jan. 9, 2019

PERMIT NUMBER: P 0258

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Consultant

Permit/Sea



Client/Project
Parks Canada Agency

Lake Louise
Campground
Operation Centre
Fairview Road
Lake Louise, Alberta

Project No.:113678159

File Name: N/A

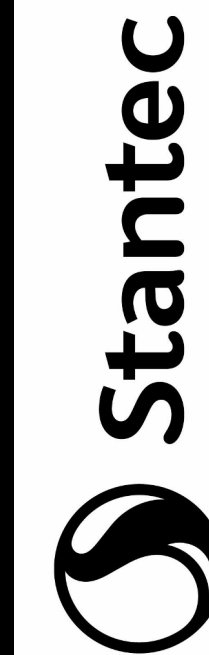
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Title
MECHANICAL
PLUMBING & FIRE
PROTECTION PLAN

Revision:
Drawing No

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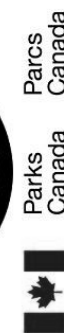
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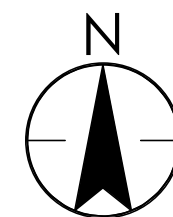
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Lake Louise
Campground
Operation Centre
Fairview Road
Lake Louise, Alberta

Title

Drawing No.

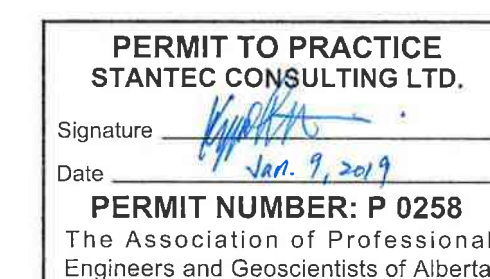
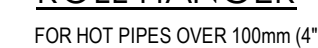


1. BRANCH DUCTING TO DIFFUSER TO MATCH DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE.
2. INSTALL DUCT WORK AS HIGH AS POSSIBLE TO UNDERSIDE OF STRUCTURE.
3. ALL EQUIPMENT AND DUCTWORK LOCATIONS TO BE FIELD-FIT AND COORDINATED WITH NEW AND EXISTING EQUIPMENT.


- 1 SUPPLY AIR DUCT TO BE LOCATED IN ARCHITECTURAL BULKHEAD WITH GRILLES FLUSH ALONG BULKHEAD.
- 2 250x200 ACOUSTICALLY LINED TRANSFER ELBOW. TERMINATE AT WALL COMPLETE WITH GRILLE.
- 3 CEILING MOUNTED EXHAUST FAN EE-1 CONNECTED TO 150x150 EXHAUST DUCT TO TERMINATE ON ROOF C/W BACKDRIFT DAMPER AND GOOSENECK.
- 4 400x400 EXHAUST DUCT TO INLINE EXHAUST FAN EE-2 AND TERMINATE ON ROOF COMPLETE WITH THERMALLY INSULATED MOTORIZED DAMPER AND GOOSENECK.
- 5 GAS SENSOR UNIT TO CONTROL MAKEUP AIR UNIT MUA-1 AND EXHAUST FAN EE-2.
- 6 EXHAUST AIR GRILLE TO BE C/W BALANCING DAMPER.
- 7 RETURN AIR DUCT TO BE LOCATED IN ARCHITECTURAL BULKHEAD WITH GRILLE FLUSH ON BULKHEAD.
- 8 625x250 OUTSIDE AIR TO MUA-1 FROM ABOVE IN SHAFT. INTAKE ROOF TO BE C/W GOOSENECK AND THERMALLY INSULATED MOTORIZED DAMPER ON ROOF. OUTSIDE AIR DUCT TO ENTER SERVICE ROOM 108 AT LOW LEVEL COMPLETE WITH FIRE DAMPER. REFER TO SERVICE ROOM SECTION ON PLAN 2 FOR DETAILS.
- 9 2000 OUTSIDE AIR INTAKE TO URN-1 FROM ABOVE IN SHAFT. INTAKE ON ROOF TO BE C/W GOOSENECK. REFER TO DETAIL 6.0 DRAWING M300 FOR MIXED AIR DETAILS.
- 10 PROVIDE NEW 500 CONCENTRIC VENT FOR NEW FURNACE URN-1 TERMINATING AT ROOF. INSTALL AS PER MANUFACTURERS INSTRUCTIONS.
- 11 1250 COMBUSTION AIR INLET AND 1250 VENT CONNECTION THROUGH ROOF.
- 12 FUTURE WASHER AND DRYER TO BE INSTALLED BY CLIENT AT THE LOCATION.



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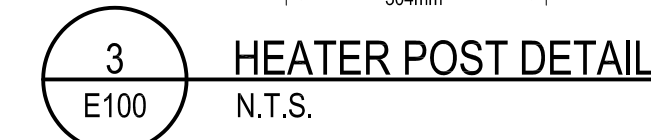
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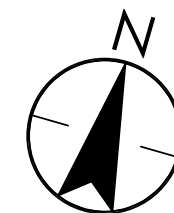
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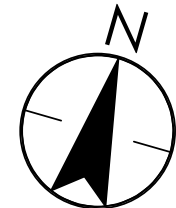
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POWER KEYNOTES

1	ELECTRICAL DEVICES SHALL BE MOUNTED @600mm AFF.
2	120V CONNECTION TO ACTIVATION LOCATED IN PLUMBING UNIT. CONFIRM EXACT LOCATIONS WITH MECHANICAL DRAWING PRIOR TO INSTALLATION.
3	COORDINATE AND CONFIRM EXACT LOCATION AND MOUNTING HEIGHT OF CO SENSOR WITH MECHANICAL DRAWING PRIOR TO INSTALLATION.
4	THE ELECTRICAL BOX FOR RECEPTACLE SHALL BE MOUNTED INSIDE THE CABINET.
5	WALL MOUNTED DATA CABINET, MIDDLE ATLANTIC HDR SERIES MODEL #HDR-9, CABINET SHALL BE LOCKABLE



1 MAIN FLOOR PLAN - LIGHTING

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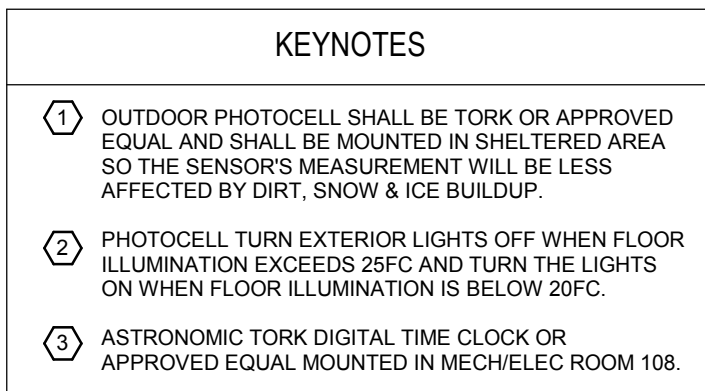
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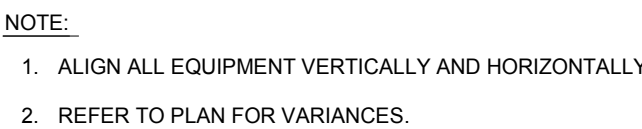
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MECHANICAL EQUIPMENT SCHEDULE																												
UNIT No.	UNIT	LOCATION	LOAD				VOLTS	PHASE	PACKAGED UNIT	STARTER & ACCESSORIES						CONTROL				CIRCUIT	BREAKER	LOCAL DISCONNECT	FEEDER (SEE NOTE 8)	FIRE ALARM PANEL (Y/N)	EMERGENCY POWER (Y/N)	REMARKS		
			HP	KW	FLA	MOP				TYPE [B]	CONTROL [C]	PILOT LIGHTS [E]	SUPPLIED BY [A]	INSTALLED BY [A]	WIRING BY [A]	TYPE [D]	SUPPLIED BY [A]	INSTALLED BY [A]	WIRING BY [A]									
MUA-1	MAKEUP AIR UNIT	MECH / ELEC ROOM		1.12			208	3			D						GS	M	M	M	A-41,43,45	15A-3P	30A-3P	21mmC - 3#12 AWG Cu + #12 GRD.	Y			
FURN-1	FURNACE	MECH / ELEC ROOM	0.50		7.70	15.00	120	1			D						ET	M	M	M	A-32	15A-1P	30A-1P	21mmC - 2#12 AWG Cu + #12 GRD.				
DWH-1	DOMESTIC WATER HEATER	BF W/C		2.00			120	1			D						T	M	M	M	A-14	25A-1P	30A-1P	21mmC - 2#12 AWG Cu + #12 GRD.				
EF-1	EXHAUST FAN (WASHROOM)	BF W/C		0.02			120	1		MRR							I	M	M	E	A-5	15A-1P		21mmC - 2#12 AWG Cu + #12 GRD.				
EF-2	EXHAUST FAN (GARAGE/SHOP)	GARAGE		0.76			120	1		MRR							GS	M	M	E	A-9	15A-1P		21mmC - 2#12 AWG Cu + #12 GRD.				
EF-3	RADON FAN (FUTURE ADDITION POSSIBLE)	UNDERSIDE OF ROOF		0.12			120	1		MRR							DDC	M	M	M	A-3						CIRCUIT TO BE PROVIDED FOR FUTURE EXP.	
PF	SENSORED LAVATORY	BF W/C		0.20			120	1		D								M	M	E	A-18	15A-1P		21mmC - 2#12 AWG Cu + #12 GRD.				
TP-1	TRAP PRIMER	MECH / ELEC ROOM		0.10			120	1		D							C	M	M	M	A-1	15A-1P	30A-1P	21mmC - 2#12 AWG Cu + #12 GRD.				
CUH-1	CABINET UNIT HEATER	ENTRY		8.00			208	1		D							T	M	E	E	A-42,44	50A-2P		27mmC - 2#6 AWG Cu + #8 GRD.				
UH-1	UNIT HEATER	GARAGE	0.17		3.80	15.00	120	1									T	M	M	E	A-25	15A-1P		21mmC - 2#12 AWG Cu + #12 GRD.				
UH-2	UNIT HEATER	GARAGE	0.17		3.80	15.00	120	1									T	M	M	E	A-28	15A-1P		21mmC - 2#12 AWG Cu + #12 GRD.				
EBB-1	ELECTRIC BASEBOARD HEATER	SUPPLIES STORAGE		0.75			120	1		D							T	M	E	E	A-48	15A-1P		21mmC - 2#12 AWG Cu + #12 GRD.				
		[A] SUPPLIED BY: E = ELECTRICAL M = MECHANICAL	[B] STARTER TYPE: D = DIRECT CONNECTION CM = COMBINATION MA = MANUAL C/W PILOT LIGHT MG = MAGNETIC STARTER MG2 = MAGNETIC STARTER (2-SPEED) REC = RECEPTACLE SS = SOFT START VFD = VARIABLE FREQUENCY DRIVE MRR = MOTOR RATED RELAY				[C] CONTROL TYPE: HOA = HAND/OFF/AUTO OA = OFF/AUTO OO = ON/OFF SS = START/STOP				[D] CONTROL DEVICE: C = TIME CLOCK DDC = DIRECT DIGITAL CONTROLS ET = ELECTRONIC THERMOSTAT F = FLOAT SWITCH FA = FIRE ALARM GS = GAS SENSOR H = HUMIDISTAT I = INTERLOCK O = OTHER (IDENTIFY) P = PRESSURE SWITCH S = MANUAL SWITCH T = THERMOSTAT				[E] PILOT LIGHTS: R = RED (OFF) G = GREEN (ON)				NOTES: 1. FIRE ALARM SHUTDOWN REQUIRED. 2. EMERGENCY POWER. 3. STARTER IN DIV. 21, 22 OR 23 PACKAGED UNIT. 4. VARIABLE SPEED CONTROLLERS BY DIV. 22 & 23. 5. TWO SPEED STARTER. 6. REDUCED VOLTAGE STARTER. 7. FIRE ALARM STARTUP REQUIRED. 8. CABLE SIZE SHOWN IS MINIMUM SIZE. FOLLOW LATEST C.E.C. AND/OR LEED AS REQUIRED									

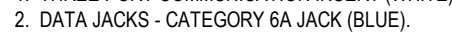
Stantec																	
Name: A				Volts: 208Y/120V				Main Breaker: 200 A				Type:					
Location: SERVICE ROOM 108				Phases: 3				Bus Rating: 225 A				A.I.C. Rating: 10 KA					
Supply From:				Wires: 4								Mounting: Surface					
Serves:								Lugs:				Enclosure:					
Notes:																	
CKT	Circuit Description			Trip	Poles	A		B		C		Poles	Trip	Circuit Description			CKT
1	TP-1	15 A	1			0.10	0.50					1	15 A	STAFF LUNCH OFFICES, LOCKERS WIC...	2		
3	EF-3 (FUTURE)	15 A	1					0.00	0.91			1	15 A	SHOP, GRARAGE, STORAGE, ELEC RM...	4		
5	EF-1	15 A	1							0.02	0.34	1	15 A	EXTERIOR LIGHTS	6		
7	MECH/ELEC RM RECEPTACLE	20 A	1			0.20	0.00					1	15 A	SPARE	8		
9	EF-2	15 A	1					0.33	0.00			1	15 A	SPARE	10		
11	OFFICE WORKSTATION	20 A	1							0.90	0.00	1	15 A	SPARE	12		
13	BF WIC GFI RECEPTACLE	20 A	1			1.00	2.00					1	25 A	DWH-1	14		
15	OFFICE WORKSTATION	20 A	1					0.60	1.00			1	20 A	COUNTER RECEPTACLES	16		
17	HOUSEKEEPING REEPTCLES (3)	15 A	1							1.50	0.20	1	15 A	SENSORED LAVATORY	18		
19	MECH/ELEC RM RECEPTACLE	20 A	1			0.20	0.40					1	20 A	EXTERIOR RECEPTACLES	20		
21	COUNTER RECEPTACLES	20 A	1					1.50	0.20			1	20 A	MECH/ELEC RM RECEPTACLE	22		
23	OFFICE CONVENIENCE RECEPTACLES	20 A	1							0.40	0.50	1	20 A	GARAGE HOUSEKEEPING RECEPTS (2)	24		
25	UH-1	15 A	1			0.50	1.00					1	20 A	HOUSEKEEPING REEPTCLES (2)	26		
27	EXTERIOR RECEPTACLES	20 A	1					0.40	0.50			1	15 A	UH-2	28		
29	ISLAND RECEPTACLE	20 A	1							1.00	1.00	1	20 A	GARAGE HOUSEKEEPING RECEPTS (2)	30		
31	COUNTER T-SLOT RECEPTACLE	20 A	1			1.00	1.20					1	15 A	FURN-1	32		
33	ISLAND RECEPTACLE	20 A	1					1.00	1.00			1	20 A	FRIDGE	34		
35	STAFF LUNCH RM WORKSTATION...	20 A	1							1.20	2.00	3	30 A	EXTERIOR RECEPTACLES	36		
37	NIGHT LIGHT	15 A	1			0.02	2.00					--	--	--	38		
39	STAFF LUNCH RM WORKSTATION...	20 A	1					1.20	2.00			--	--	--	40		
41	MUA-1	15 A	3							0.37	4.00	2	15 A	CHU-1	42		
43	--	--	--			0.37	4.00					--	--	--	44		
45	--	--	--					0.37							46		
47	O/H DOOR	20 A	1							0.90	0.75	1	15 A	EBB-1	48		
49	O/H DOOR	20 A	1			0.90	0.50					1	20 A	DATA CABINET	50		
51	MECH/ELEC RM RECEPTACLE	20 A	1					0.20	0.50			1	20 A	DATA CABINET	52		
53	CARBON MONOXIDE ALARM	15 A	1							0.10					54		
55	MICROWAVE	20 A	1			1.00									56		
57	SPARE	15 A	1					0.00	0.00			1	15 A	SPARE	58		
59	SPARE	15 A	1							0.00	0.24	1	15 A	BATTERY PACK / EXIT SIGN	60		
61	SECURITY PANEL	15 A	1			0.50	0.50					1	15 A	FIRE ALARM RECEIVING CENTER	62		
63	DRYER	30 A	2					3.10	0.20			1	15 A	FIRE ALARM DIALOUT	64		
65	--	--	--							3.10	0.50	1	20 A	SECURITY CABINET	66		
67	WASHER	20 A	1			0.50									68		
69	--	--	--												70		
71	--	--	--												72		



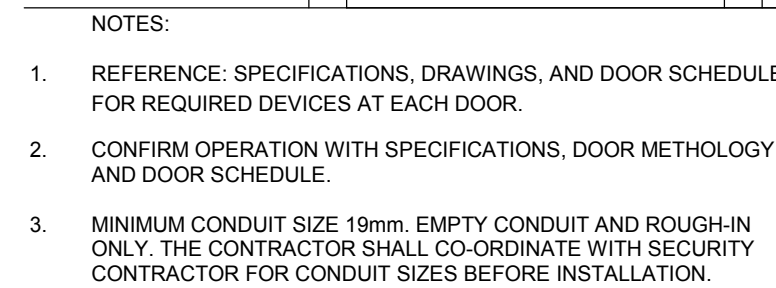
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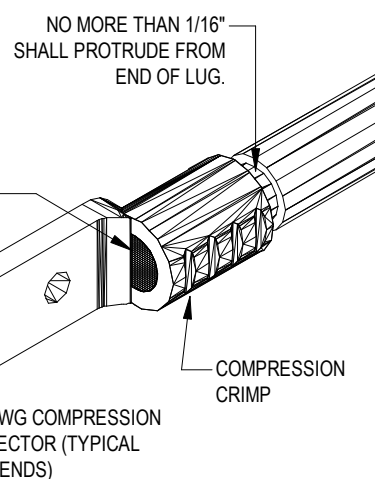
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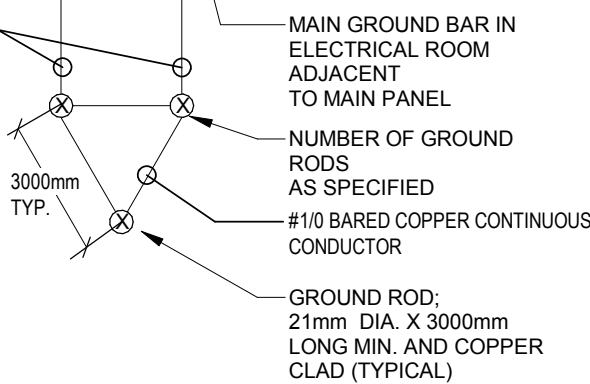
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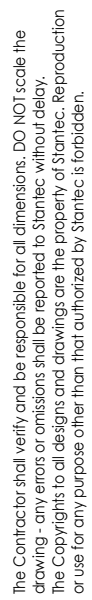
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PRELIMINARY REVIEW	PC	TS	2018.03.19
PRELIMINARY REVIEW	PC	TS	2018.03.19
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2019.01.09
PERMIT NUMBER: P 0258



Lake Louise
Campground
Operation Centre
Fairview Rd, Lake Louise
Alberta

Project No.: 113678159

File Name: N/A

Scale: As indicated

SR	PC	TS	05/17/18
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
ELECTRICAL DETAILS

Revision:
Drawing No

550

E500

13.0 PART 13- CUTTING AND PATCHING

13.1 GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR THE ELECTRICAL INSTALLATION. STRUCTURAL MEMBERS SHALL NOT BE CUT WITHOUT THE CONSENT OF THE STRUCTURAL ENGINEER.

13.2 WHERE WORK OF THE ELECTRICAL CONTRACTOR DAMAGES WORK OF OTHER TRADES, THE ELECTRICAL CONTRACTOR SHALL REPAIR AND MAKE GOOD SUCH DAMAGE TO THE SATISFACTION OF THE TRADE CONCERNED AND THE ARCHITECT.

13.3 PRIOR TO CORING, ALL AREAS ARE TO BE IDENTIFIED, X-RAYED AND APPROVED BY THE STRUCTURAL ENGINEER.

14.0 PART 14- PAINTING AND FINISHES

14.1 ALL ELECTRICAL, FINISHES, SUPPORTS, HANGERS/RODS, PULLBOXES, CHANNEL FRAMES, CONDUIT RACKS, OUTLET BOXES, BRACKETS, PLATES, ETC. SHALL HAVE GALVANIZED FINISH OR PAINT FINISH OVER CORROSION-RESISTANT PRIMER.

14.2 ALL PANELBOARDS OR SIMILAR FACTORY FINISHED UNITS THAT ARE SCRATCHED OR MARKED DURING INSTALLATION SHALL BE TOUCHED UP WITH MATCHING SPRAY-ON AIR DRY LACQUER AND IF REQUIRED TO PROVIDE A SATISFACTORY JOB SHALL BE COMPLETELY REFINISHED.

14.3 ALL 120/208 VOLT PANELBOARDS, PULLBOXES, ETC. SHALL BE FINISHED IN GRAY ENAMEL.

15.0 PART 15- IDENTIFICATION

15.1 CLEARLY IDENTIFY POWER PANELBOARDS, DISCONNECT SWITCHES, JUNCTION BOXES, ON/OFF SWITCHES AND TRANSFORMERS BY PERMANENT LABELS DESCRIBED BELOW.

15.2 NAMETAGS TO BE OF 2-LAYER LAMINATED PLASTIC, BLACK/WHITE WITH ETCHED LETTERING GIVING WHITE LETTERS ON BLACK BACKGROUND WERE CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS. LETTERS ON NAMETAGS TO BE 9mm HIGH MINIMUM. 25mm HIGH LETTERS TO BE USED WHERE NOTED ON DRAWINGS. MECHANICAL FASTENINGS TO BE USED THROUGHOUT.

15.3 PANELBOARD IDENTIFICATION: PANELBOARDS AS SHOWN ON THE DRAWINGS AND INDICATE VOLTAGE, WHERE PANELBOARDS ARE LOCATED IN AREAS OTHER THAN ELECTRICAL ROOMS, NAMETAGS TO BE ATTACHED TO INSIDE OF PANELBOARD DOOR.

15.4 DISCONNECT SWITCHES, STARTERS AND CONTACTORS: INDICATE EQUIPMENT BEING CONTROLLED AND VOLTAGE.

15.5 PULLBOXES: INDICATE SYSTEM AND VOLTAGE.

15.6 ON/OFF SWITCHES: INDICATE AREAS BEING SERVED.

15.7 DISTRIBUTION CENTRES: IDENTIFY DISTRIBUTION CENTRES AS INDICATED ON DRAWINGS AND MAIN VOLTAGE OR VOLTAGES IF MORE THAN ONE.

15.8 DUXER RECEPTACLES: ABOVE EACH RECEPTACLE PROVIDE NAMETAG WITH 3mm HIGH BLACK LETTERING ON WHITE BACKGROUND INDICATING CIRCUIT BREAKER NUMBER AND PANEL DESIGNATION. ON ALL OTHER RECEPTACLES, PROVIDE LAMCOCO NAMETAG INDICATING VOLTAGE, PHASE, AMPS, CIRCUIT AND PANEL DESIGNATED.

15.9 ALL CONDUIT FOR ELECTRICAL SYSTEMS TO BE COLOR CODED WITHIN 200mm OF PANEL LOCATIONS, PULLBOX LOCATIONS, AND CAPTIVE STUDS. ADDRESS EACH PANEL SHALL BE FOR GENERAL DESIGN ONLY AND SHALL NOT RELIEVE THE CONTRACTOR OF THE WORK AND FURNISHING OF MATERIALS. THE APPROVAL SHALL NOT BE CONSTRUED AS APPROVING DEPARTURES FROM THE CONTRACT DOCUMENT REQUIREMENTS IF SUCH DEPARTURES ARE NOT SPECIFICALLY NOTED IN A COVERING LETTER ACCOMPANYING SUCH DRAWINGS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS.

15.10 ABOVE REMOVABLE CEILING: WHERE PULLBOXES, JUNCTION BOXES, ARE LOCATED ABOVE REMOVABLE CEILINGS, FINISH TO BE COLOR SPECIFIED BOTH ON OUTSIDE AND INSIDE. COVERPLATES TO BE PAINTED ON BOTH SIDES IN THE COLOR SPECIFIED.

15.11 NON REMOVABLE CEILINGS: WHERE PULLBOXES, JUNCTION BOXES, ARE LOCATED ON OR IN NON-REMOVABLE CEILINGS, THE INTERIOR ONLY SHALL BE FINISHED IN THE COLOR SPECIFIED. INTERIOR FACES OF COVERPLATES TO BE PAINTED TO MATCH-BOX INTERIOR FINISH.

16.0 PART 16- ACCESS DOORS

16.1 THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ACCESS DOORS REQUIRED FOR PROPER SERVICING OF ALL ELECTRICAL WORK. ACCESS DOORS SHALL BE COMPLETE WITH NECESSARY FRAMES AND HINGED DOORS HELD CLOSED WITH CAPTIVE STUDS. ADDRESS EACH PANEL SHALL BE FOR GENERAL DESIGN ONLY AND SHALL NOT RELIEVE THE CONTRACTOR OF THE WORK TO MATCH THE WALL OR CEILING FINISH.

16.2 NUMBER OF ACCESS DOORS TO BE KEPT TO AN ABSOLUTE MINIMUM AND TO BE USED ONLY WITH THE PERMISSION OF THE ENGINEER.

17.0 PART 17- SHOP DRAWINGS

17.1 ELECTRICAL CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL SHOP DRAWINGS OF ELECTRICAL COMPONENTS AS REQUESTED BY THE ENGINEER.

17.2 ALL DRAWINGS SHALL BE SUBMITTED IN TRIPLICATE AND TWO COPIES WILL BE RETURNED TO THE ELECTRICAL CONTRACTOR. SUBMIT ADDITIONAL COPIES FOR APPROVAL AS MAY BE REQUIRED.

17.3 APPROVAL OF SHOP DRAWINGS SHALL BE FOR GENERAL DESIGN ONLY AND SHALL NOT RELIEVE THE ELECTRICAL CONTRACTOR OR SUPPLIERS FROM THEIR RESPONSIBILITY FOR ERRORS, PROPER FITTING, CONSTRUCTION OF THE WORK AND FURNISHING OF MATERIALS. THE APPROVAL SHALL NOT BE CONSTRUED AS APPROVING DEPARTURES FROM THE CONTRACT DOCUMENT REQUIREMENTS IF SUCH DEPARTURES ARE NOT SPECIFICALLY NOTED IN A COVERING LETTER ACCOMPANYING SUCH DRAWINGS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS.

18.0 PART 18- RECORD PLANS

18.1 ELECTRICAL CONTRACTOR SHALL ACCURATELY RECORD ON A SET OF PLANS, DAY BY DAY, ALL OUTLETS, CONDUIT, FITURES, EQUIPMENT AS ACTUALLY INSTALLED ON THE JOB. ANY CHANGES TO THE CONTRACT WORK SHALL BE SIMILARLY RECORDED AND SUBMIT TO STANTEC AT END OF JOB.

18.2 STANTEC CONSULTING LTD. CAN PROVIDE THIS SERVICE TO THE ELECTRICAL CONTRACTOR FOR THE SUM OF \$2000.00. THE ELECTRICAL CONTRACTOR IS NOT OBLIGATED TO SECURE THE SERVICES OF STANTEC CONSULTING LTD.

19.0 PART 19- LOCATION OF OUTLETS

19.1 THE ENGINEER RESERVES THE RIGHT TO CHANGE THE LOCATION OF OUTLETS TO WITHIN 3m OF POINTS INDICATED ON THE PLANS WITHOUT EXTRA CHARGE PROVIDED THE CONTRACTOR IS ADVISED BEFORE INSTALLATION IS MADE.

19.2 ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL ROOM ELEVATIONS FOR POSITIONS, AND MOUNTING HEIGHTS OF ALL OUTLETS, SWITCHES, INTERCOMMUNICATION, TELEPHONES, ETC. POSITIONS SHOWN ON THE ARCHITECTURAL ROOM ELEVATIONS SHALL TAKE PRECEDENCE OVER POSITIONS OR MOUNTING HEIGHTS SHOWN ON THE ELECTRICAL PLANS AND SPECIFICATIONS.

19.3 DO NOT INSTALL OUTLETS BACK TO BACK IN WALLS SO AS TO REDUCE NOISE TRANSMISSION FROM ROOM TO ROOM. MAINTAIN MINIMUM OF ONE STU SPACE SEPARATION BETWEEN BACK TO BACK BOXES.

19.4 MOUNTING HEIGHTS FOR DEVICES SHALL BE AS FOLLOWS, UNLESS OTHERWISE SHOWN ON DRAWINGS

RECEPTACLES: 300mm A.F.F.

2 DATA/TELEPHONE OUTLETS: 300mm A.F.F.

3 OUTLETS ABOVE COUNTERS: 100mm ABOVE COUNTERTOP

PANELBOARDS: 1900mm TO THE TOP OF PANEL

20.0 PART 20- TESTS

20.1 ALL PORTIONS OF THE ELECTRICAL WORK SHALL BE TESTED AND CHECKED FOR SATISFACTORY OPERATION.

20.2 BEFORE ENERGIZING ANY PORTION OF THE ELECTRICAL SYSTEM, PERFORM MEGGER TESTS ON ALL FEEDERS AND BRANCH CIRCUITS. RESULTS OF SUCH TESTS SHALL CONFORM TO THE REQUIREMENTS OF THE CANADIAN ELECTRICAL CODE AND SHALL BE TO THE SATISFACTION OF THE AUTHORIZED INSPECTION AGENCY AND THE ENGINEER. SUBMIT ALL TEST REPORTS TO THE ENGINEER.

20.3 UPON COMPLETION OF THE CONTRACT AND IMMEDIATELY PRIOR TO FINAL INSPECTION AND TAKEOVER, CHECK THE LOAD BALANCE ON ALL FEEDERS AND AT DISTRIBUTION CENTRES, PANELS, ETC. THE TEST SHALL BE CARRIED OUT BY TURNING OTHER WORK DAMAGED THEREBY WHICH FAILS OR BECOMES DEFECTIVE DURING THE TERM OF THE GUARANTEE/WARRANTY PROVIDED THAT SUCH FAILURE IS NOT DUE TO IMPROPER USAGE.

20.4 THE PERIOD OF THE GUARANTEE SPECIFIED SHALL IN NO WAY SUPPLANT ANY OTHER GUARANTEE OF A LONGER PERIOD BUT SHALL BE BINDING ON WORK NOT OTHERWISE COVERED.

21.0 PART 21- GUARANTEE/WARRANTY

21.1 FURNISH A WRITTEN GUARANTEE/WARRANTY COUNTERSIGNED AND GUARANTEED BY THE GENERAL CONTRACTOR STATING THAT ALL WORK EXECUTED UNDER THIS CONTRACT WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THIS WORK.

21.2 THE ABOVE PARTIES THEREAFTER AGREE TO, AT THEIR OWN EXPENSE, REPAIR AND REPLACE ALL SUCH DEFECTIVE WORK AND OTHER WORK DAMAGED THEREBY WHICH FAILS OR BECOMES DEFECTIVE DURING THE TERM OF THE GUARANTEE/WARRANTY PROVIDED THAT SUCH FAILURE IS NOT DUE TO IMPROPER USAGE.

21.3 THE PERIOD OF THE GUARANTEE SPECIFIED SHALL IN NO WAY SUPPLANT ANY OTHER GUARANTEE OF A LONGER PERIOD BUT SHALL BE BINDING ON WORK NOT OTHERWISE COVERED.

22.0 PART 22- CONDUIT

22.1 ALL WIRE AND CABLE TO BE INSTALLED IN E.M.T. CONDUIT, UNLESS OTHERWISE INDICATED OR AS REQUIRED BY THE CANADIAN ELECTRICAL CODE. ALL E.M.T. CONNECTORS AND COUPLINGS MUST BE RAIN TIGHT (WET LOCATIONS ONLY) OR STEEL SET SCREW TYPE. (THE USE OF CAST METAL TYPE WILL NOT BE PERMITTED).

22.2 SURFACE MOUNTED CONDUITS TO BE INSTALLED PARALLEL TO STRUCTURAL LINES. WHERE BENDS OCCUR IN PARALLEL RUNS, THEY SHALL BE CONCENTRIC.

22.3 CONDUITS TO BE KEPT FREE FROM DENTS AND BRUISES. CONDUIT ENDS ARE TO BE PLUGGED TO PREVENT ENTRANCE OF DIRT OR MOISTURE.

22.4 ALL CONDUITS, EXCEPT WHERE OTHERWISE NOTED, TO BE SIZED IN ACCORDANCE WITH CANADIAN ELECTRICAL CODE.

22.5 CONDUIT AND EQUIPMENT SHALL BE SUPPORTED BY AN APPROVED-ENGINEER ("HILT") TYPE SYSTEM. THE USE OF PLASTIC, METAL OR WOOD INSERTS IS NOT PERMITTED.

22.6 FLEXIBLE CONDUIT CONNECTIONS TO BE FLEXIBLE PLASTIC JACKETED. SEAL TIGHT OR APPROVED EQUAL. FLEXIBLE CONDUIT CONNECTIONS ARE REQUIRED TO ALL MOTORS FROM STUB-UPS OR JUNCTION BOXES. MAXIMUM LENGTH PERMITTED IS 1 METER.

22.7 WHERE THE FLOOR SLAB IS DRILLED FOR CONDUIT INSTALLATION TO WALL, JUNCTION BOXES OR TO FLOOR FITTINGS THE FLOOR SHALL BE DRY CORE DRILLED. AFTER CONDUIT INSTALLATION THE OPENING SHALL BE CAULKED AND SEALED. CONDUIT AFTER INSTALLATION OF CONDUCTORS SHALL BE SEALED WITH APPROVED FIRE AND SMOKE SEPARATION SYSTEMS. WET CORING IS NOT PERMITTED.

22.8 DRILLING OR CUTTING OF THE FLOOR SLAB IS NOT PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM THE PROPERTY MANAGER. IF THE FLOOR SLABS CONTAIN CAST-IN ELECTRICAL AND COMMUNICATIONS CONDUIT, X-RAYING OF CORE LOCATIONS MUST BE COMPLETED PRIOR TO CORING. CO-ORDINATE WITH TRADES AND OWNER.

22.9 UTILIZE RIGID GALVANIZED STEEL (RGS) CONDUIT FOR ALL RUNS BELOW 2.3 METERS. WHERE IN JUDGEMENT BY THE ELECTRICAL INSPECTION AUTHORITY, ENGINEER OR OWNER, IS SUBJECT TO MECHANICAL DAMAGE.

22.10 WHERE CONDUITS ARE INSTALLED ON CONCRETE SLABS AND CROSS STRUCTURAL EXPANSION JOINTS, AN APPROVED EXPANSION FITTING COMPLETE WITH BONDING JUMPER AND CLAMPS SHALL BE INSTALLED. EXPANSION JOINTS TO BE GROUSE HINDS X4 SERIES OR O2 TYPE AV SERIES.

22.11 ALL CONDUITS IN SLAB AND/UNDER SLAB SHALL BE RIGID PVC.

23.0 PART 23 - WIRING AND CABLING

23.1 ALL WIRING SHALL BE COPPER WITH RW90 X-LINK OR R90 NYLON 600 VOLT INSULATION AND BEAR CSA LABELLING.

23.2 NO CONDUCTOR SMALLER THAN NO 12 AWG SHALL BE USED FOR BRANCH CIRCUIT WIRING.

23.3 SMALLER CONDUCTORS FOR THE CONTROL OR LOW VOLTAGE WORK TO BE USED WHERE CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS.

23.4 ALL CONDUCTORS TO BE COLOR CODED THROUGHOUT THE BUILDING IN ACCORDANCE WITH THE FOLLOWING SCHEDULE OR TO MATCH EXISTING:

1 SYSTEM AND EQUIPMENT GROUNDING CONDUCTOR: GREEN

2 NEUTRAL CONDUCTOR (SERVICE ENTRANCE OR XO POINT OF TRANSFORMERS): WHITE

23.5 12/208 VOLT PHASE CONDUCTORS: RED, BLACK AND BLUE.

23.6 CONDUCTORS TO BE SIZED AS DESCRIBED HEREIN. CONDUCTORS TO BE SIZED SO AS TO LIMIT VOLTAGE DROP TO THE LIMITS OUTLINED IN THE CANADIAN ELECTRICAL CODE.

23.7 UTILIZE SEPARATE IDENTIFIED CONDUCTORS (WHITE) FOR EACH BRANCH CIRCUIT SHOWN. THE USE OF COMMON IDENTIFIED CONDUCTORS IS NOT PERMITTED.

23.8 QUICK REFERENCE CONDUCTOR LENGTH TABLE FOR CONTRACTORS CONVENIENCE:

CONDUCTOR	MAXIMUM LENGTH OF RUN 120V
#12AWG	24m
#10AWG	39m
#8AWG	61m
#6AWG	97m

23.9 LIGHTING CIRCUITS CONTROLLED FROM DIMMER: PROVIDE SEPARATE NEUTRAL WIRE FOR EVERY CIRCUIT OR DIMMING CHANNEL. NEUTRAL WIRE SHALL BE MINIMUM 12 AWG.

24.0 PART 24 - MECHANICAL WIRING

24.1 UNLESS SPECIFIED OTHERWISE, ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ALL CONDUIT AND WIRE, FITTINGS AND CONNECTING RACE AND MECHANICAL EQUIPMENT. MOTOR PROTECTION SWITCHES COMPLETE WITH OVERLOAD RELAYS, ETC. TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO CONFIRM WITH MECHANICAL TRADE THE SIZE, CHARACTERISTICS AND LOCATIONS OF ALL MECHANICAL EQUIPMENT BEFORE INSTALLATION OF CONDUIT, OUTLETS, INTERLOCKS, HEATERS, ETC.

25.0 PART 25 - OUTLET BOXES

25.1 BOXES: GALVANIZED, CONFORMING TO CSA REQUIREMENTS.

25.2 BOXES FOR CEILING, NO 54151 BOX, OTHERWISE NO 52171 OR NO. 72171 BOX AS PER CODE REQUIREMENTS.

25.3 BOXES FOR INDOOR SQUARE MOUNTED EQUIPMENT, USE 4 IN. SQUARE TAYLOR 52151 OR 52171 WITH TAYLOR T & B SERIES 8300 COVERS.

25.4 ALL OUTLET BOXES TO BE FLUSH MOUNTED IN ALL AREAS EXCEPT AS SPECIFIED OTHERWISE.

25.5 NO GANCABLE OR HANDY BOXES ALLOWED.

25.6 ALL OUTLET BOXES MOUNTED IN EXTERIOR WALL SHALL BE ENCLOSED IN VAPOUR BARRIER POLY HATS.

26.0 PART 26 - PULLBOXES

26.1 SUPPLY AND INSTALL PULLBOXES AS REQUIRED TO SUIT JOB CONDITIONS. PULLBOXES TO CONFORM TO CANADIAN ELECTRICAL CODE REQUIREMENTS AND BE FINISHED IN ENAMEL OVER CORROSION-RESISTANT PRIMER WITH SCREW-ON ELECTRICAL INSPECTION DEPARTMENT.

26.2 ALL COMPONENTS SHALL BE SECURELY AND ADEQUATELY GROUNDED AND WHERE REQUIRED TO ACCOMPLISH THIS, GROUNDING JUMPERS, GROUNDING STUDS AND BUSHINGS SHALL BE USED.

26.3 ENSURE THAT ALL RACEWAYS, TERMINAL PANELS, ETC. FOR TELEPHONE, LOW VOLTAGE, SOUND, ETC. ARE SECURELY AND ADEQUATELY GROUNDED AND PROVIDE GROUNDING CONDUCTOR TO WATER MAIN WHERE CALLED FOR OR WHERE REQUIRED.

26.4 BOND ALL LOW TENSION SYSTEM (TELECOMMUNICATION CONDUITS, ETC.) AT PLYWOOD BACKBOARDS WITH #8 AWG BONDING CONDUCTOR.

26.5 ALL METALLIC CONDUITS LONGER THAN 1 METER IN LENGTH, CONTAINING A SINGLE GROUNDING OR BONDING CONDUCTOR SHALL BE BONDED AS PER THE CANADIAN ELECTRICAL CODE.

26.6 GROUND WIRE TO BE INSTALLED IN ALL CONDUITS.

34.0 PART 3A - VOICE/DATA CABLING SYSTEM

34.1 PROVIDE A MINIMUM 35mm conduit IN WALL FROM DATA OUTLET BOX TO CEILING SPACE. ALL CONDUIT STUDS TO HAVE A CONNECTOR AND PLASTIC BUSHING.

34.2 ALL DATA CABLING IN CEILING SPACE TO BE INSTALLED PARALLEL TO BUILDING LINES AND INSTALLED IN CONDUIT.

34.3 ALL COMPONENTS TO BE CATEGORY 6A AND FROM ONE MANUFACTURE.

34.4 CONTRACTOR TO TERMINATE EACH CABLE AT THE JACK LOCATION AND TO OWNER SUPPLIED PATCH PANEL.

34.5 ALL CABLES SHALL BE LABELED AT BOTH ENDS TO IDENTIFY OUTLET NUMBER.

34.6 PROVIDE SELF-ADHESIVE POLYESTER LABEL ON COVERPLATE INDICATING CABLE IDENTIFICATIONS.

34.7 CONTRACTOR TO PERFORM CONTINUITY TESTS INCLUDING OPEN CIRCUIT, CLOSED CIRCUIT, POLARITY REVERSAL AND PAIR TRANSPOSITION, d.c. LOOP RESISTANCE, MUTUAL CAPACITANCE, SIGNAL TO NOISE RATIO, ATTENUATION, EAR END CROSS TALK, FAR END CROSS TALK.

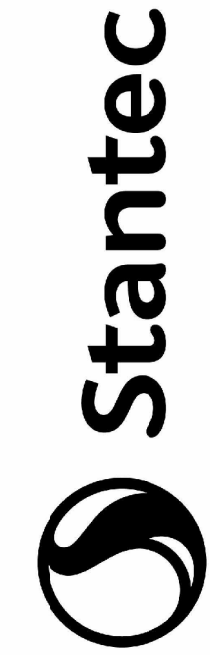
34.8 CONTRACTOR TO INCLUDE TEST RESULTS IN O&N MANUAL AND SUBMIT TO CONSULTANT A COPY OF REPORT FOR REVIEW.

34.9 MAXIMUM OF 6 CABLES IN 41mm CONDUIT AND 12 CABLES IN 53mm CONDUIT.

DRAWINGS DEPICT GENERAL DEVICE LOCATIONS ONLY.
REFER TO ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND
DETAILS FOR EXACT LOCATIONS.

CONDUCTOR	MAXIMUM LENGTH OF RUN 120V
#12AWG	24m
#10AWG	38m
#8AWG	61m
#6AWG	97m

	ABOVE REMOVABLE CEILING: WHERE PULLBOXES, JUNCTION BOXES, ARE LOCATED ABOVE REMOVABLE CEILINGS, FINISH TO BE COLOR SPECIFIED BOTH ON OUTSIDE AND INSIDE, COVERPLATES TO BE PAINTED ON BOTH SIDES IN THE COLOR SPECIFIED.	23.9	LIGHTING CIRCUITS CONTROLLED FROM DIMMER: PROVIDE SEPARATE NEUTRAL WIRE FOR EVERY CIRCUIT OR DIMMING CHANNEL: NEUTRAL WIRE SHALL BE MINIMUM 12 AWG.
15.11	NON-REMOVABLE CEILINGS: WHERE PULLBOXES, JUNCTION BOXES, ARE LOCATED ON OR IN NON-REMOVABLE CEILINGS, THE INTERIOR ONLY SHALL BE FINISHED IN THE COLOR SPECIFIED. INTERIOR FACES OF COVERPLATES TO BE PAINTED TO MATCH BOX INTERIOR FINISH.	24.0	PART 24 - MECHANICAL WIRING
16.0	PART 16 - ACCESS DOORS	24.1	UNLESS SPECIFIED OTHERWISE, ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ALL CONDUIT AND WIRE, FITTINGS AND CONNECTIONS FOR ALL MECHANICAL EQUIPMENT. MOTOR PROTECTION SWITCHES COMPLETE WITH OVERLOAD RELAYS, ETC. TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO CONFORM WITH MECHANICAL TRADE THE SIZE, CHARACTERISTICS AND LOCATIONS OF ALL MECHANICAL EQUIPMENT BEFORE INSTALLATION OF CONDUIT, OUTLETS, INTERLOCKS, HEATERS, ETC.
16.1	THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ACCESS DOORS REQUIRED FOR PROPER SERVING OF ALL ELECTRICAL WORK. ACCESS DOORS SHALL BE COMPLETE WITH NECESSARY FRAMES AND HINGED DOORS HELD CLOSED WITH POSITIVE STUDS. ACCESS PANELS SHALL BE OF NOT LESS THAN 3mm STEEL, PRIME COAT FINISHED AND PAINTED ON THE JOB TO MATCH THE WALL OR CEILING FINISH.	25.0	PART 25 - OUTLET BOXES
16.2	NUMBER OF ACCESS DOORS TO BE KEPT TO AN ABSOLUTE MINIMUM AND TO BE USED ONLY WITH THE PERMISSION OF THE ENGINEER OR ARCHITECT.	25.1	BOXES: GALVANIZED, CONFORMING TO CSA REQUIREMENTS.
17.0	PART 17 - SHOP DRAWINGS	25.2	BOXES FOR CEILING, NO 54151 BOX, OTHERWISE NO 52171 OR NO. 72171 BOX AS PER CODE REQUIREMENTS.
17.1	ELECTRICAL CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, SHOP DRAWINGS OF ELECTRICAL COMPONENTS AS REQUIRED BY THE ENGINEER.	25.3	BOXES FOR INDOOR SURFACE MOUNTED EQUIPMENT, USE 4 IN. SQUARE TAYLOR 52151 OR 52171 WITH TAYLOR OR T & B SERIES 8300 COVERS.
17.2	ALL DRAWINGS SHALL BE SUBMITTED IN TRIPLICATE AND TWO COPIES WILL BE RETURNED TO THE ELECTRICAL CONTRACTOR. SUBMIT ADDITIONAL COPIES FOR APPROVAL AS MAY BE REQUIRED.	25.4	ALL OUTLET BOXES TO BE FLUSH MOUNTED IN ALL AREAS EXCEPT AS SPECIFIED OTHERWISE.
17.3	THE ENGINEER'S APPROVAL OF SHOP DRAWINGS SHALL BE FOR GENERAL DESIGN ONLY AND SHALL NOT RELIEVE THE ELECTRICAL CONTRACTOR OF THEIR RESPONSIBILITY FOR ERRORS, PROPER FITTING, CONSTRUCTION OF THE WORK AND FURNISHING OF MATERIALS. THE APPROVAL SHALL NOT BE CONSTRUED AS APPROVING DEPARTURES FROM THE CONTRACT DOCUMENT REQUIREMENTS IF SUCH DEPARTURES ARE NOT SPECIFICALLY NOTED IN A COVERING LETTER ACCOMPANYING SUCH DRAWINGS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS.	25.5	NO GANGLABLE OR HANDY BOXES ALLOWED.
18.0	PART 18 - RECORD PLANS	25.6	ALL OUTLET BOXES MOUNTED IN EXTERIOR WALL SHALL BE ENCLOSED IN VAPOUR BARRIER POLY HATS.
18.1	ELECTRICAL CONTRACTOR SHALL ACCURATELY RECORD ON A SET OF PLANS, DAY BY DAY, ALL OUTLETS, CONDUIT, FIXTURES, EQUIPMENT AS ACTUALLY INSTALLED ON THE JOB. ANY CHANGES TO THE CONTRACT WORK SHALL BE SIMILARLY RECORDED AND SUBMIT TO STANTEC AT END OF JOB.	26.0	PART 26 - PULLBOXES
18.4	STANTEC CONSULTING LTD. CAN PROVIDE THIS SERVICE TO THE ELECTRICAL CONTRACTOR FOR THE SUM OF \$2000.00. THE ELECTRICAL CONTRACTOR IS NOT OBLIGATED TO SECURE THE SERVICES OF STANTEC CONSULTING LTD.	26.1	SUPPLY AND INSTALL PULLBOXES AS REQUIRED TO SUIT JOB CONDITIONS. PULLBOXES TO CONFORM TO CANADIAN ELECTRICAL CODE REQUIREMENTS AND BE FINISHED IN ENAMEL OVER CORROSION-RESISTANT PRIMER WITH SREW-ON OR HINGED COVER AS INDICATED. IN REMOVABLE CEILING AREAS, PULLBOXES ARE TO BE INSTALLED ABOVE THE CEILING. PULLBOXES IN FINISHED WALLS AND PLASTER OR NON-REMOVABLE CEILINGS TO HAVE OVERLAPPING TYPE TRIM WITH COVERS PRIME COATED AND PAINTED ON JOB TO MATCH WALL OR CEILING FINISH.
19.0	PART 19 - LOCATION OF OUTLETS	27.0	PART 27 - SUPPORTS
19.1	THE ENGINEER RESERVES THE RIGHT TO CHANGE THE LOCATION OF OUTLETS TO WITHIN 3m OF POINTS INDICATED ON THE PLANS WITHOUT EXTRA CHARGE PROVIDED THE CONTRACTOR IS ADVISED BEFORE INSTALLATION IS MADE.	27.1	ALL SURFACE CONDUITS, ELECTRICAL EQUIPMENT, ETC. TO BE SECURELY AND ADEQUATELY SUPPORTED.
19.2	ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL ROOM ELEVATIONS FOR POSITIONS, AND MOUNTING HEIGHTS OF ALL OUTLETS, SWITCHES, INTERCOMMUNICATION, TELEPHONES, ETC. POSITIONS SHOWN ON THE ARCHITECTURAL ROOM ELEVATIONS SHALL TAKE PRECEDENCE OVER POSITIONS OR MOUNTING HEIGHTS SHOWN ON THE ELECTRICAL PLANS AND SPECIFICATIONS.	28.0	PART 28 - FIRE BARRIERS
19.3	DO NOT INSTALL OUTLETS BACK TO BACK IN WALLS SO AS TO REDUCE NOISE TRANSMISSION FROM ROOM TO ROOM. MAINTAIN MINIMUM OF ONE STUD SPACE SEPARATION BETWEEN BACK TO BACK BOXES.	28.1	THE CONTRACTOR SHALL SEAL ALL OPENINGS IN THE FLOOR OR FIRE RATED WALLS WITH APPROVED FIRE STOP AND SMOKE SEPARATION SYSTEMS. FIRE BARRIER MATERIAL EQUAL TO THE RATING OF FLOOR OR WALL BEING PENETRATED.
19.4	MOUNTING HEIGHTS FOR DEVICES SHALL BE AS FOLLOWS, UNLESS OTHERWISE SHOWN ON DRAWINGS	29.0	PART 29 - GROUNDING
	1. RECEPTABLES: 300mm A.F.F.	29.1	SUPPLY AND INSTALL COMPLETE GROUNDING SYSTEM AS INDICATED AND AS REQUIRED BY CANADIAN ELECTRICAL CODE AND ELECTRICAL INSPECTION DEPARTMENT.
	2. DATA/TELEPHONE OUTLETS: 300mm A.F.F.	29.2	ALL COMPONENTS SHALL BE SECURELY AND ADEQUATELY GROUNDED AND WHERE REQUIRED TO ACCOMPLISH THIS, GROUNDING JUMPERS, GROUNDING STUDS AND BUSINGS SHALL BE USED.
	3. OUTLETS ABOVE COUNTERS: 100mm ABOVE COUNTERTOP	29.3	ENSURE THAT ALL RACEWAYS, TERMINAL PANELS, ETC. FOR TELEPHONE, LOW VOLTAGE, SOUND, ETC. ARE SECURELY AND ADEQUATELY GROUNDED AND PROVIDE GROUNDING CONDUCTOR TO WATER MAIN WHERE CALLED FOR OR WHERE REQUIRED.
	4. PANELBOARDS: 1900mm to the TOP OF PANEL	29.4	BOND ALL LOW TENSION SYSTEM (TELECOMMUNICATION CONDUITS, ETC.) AT PLYWOOD BACKBOARDS WITH #6 AWG BONDING CONDUCTOR
20.0	PART 20 - TESTS	29.5	ALL METALLIC CONDUITS LONGER THAN 1 METER IN LENGTH, CONTAINING A SINGLE GROUNDING OR BONDING CONDUCTOR SHALL BE BONDED AS PER THE CANADIAN ELECTRICAL CODE.
20.1	ALL PORTIONS OF THE ELECTRICAL WORK SHALL BE TESTED AND CHECKED FOR SATISFACTORY OPERATION.	29.6	GROUND WIRE TO BE INSTALLED IN ALL CONDUITS.
20.2	BEFORE ENERGIZING ANY PORTION OF THE ELECTRICAL SYSTEM, PERFORM MEGGER TESTS ON ALL FEEDERS AND BRANCH CIRCUITS. RESULTS OF SUCH TESTS SHALL CONFORM TO THE REQUIREMENTS OF THE CANADIAN ELECTRICAL CODE AND SHALL BE TO THE SATISFACTION OF THE AUTHORIZED INSPECTION AGENCY AND THE ENGINEER. SUBMIT ALL CHECK REPORTS TO THE ENGINEER.	30.0	PART 30 - DISTRIBUTION
20.3	UPON COMPLETION OF THE CONTRACT AND IMMEDIATELY PRIOR TO FINAL INSPECTION AND TAKEOVER, CHECK THE LOAD BALANCE ON ALL FEEDERS AND AT DISTRIBUTION CENTRES, PANELS, ETC. THE TEST SHALL BE CARRIED OUT BY TURNING ON ALL POSSIBLE LOADS IN THE CONTRACT AREA AND CHECKING LOAD CURRENT BALANCE. IF LOAD UNBALANCE EXCEEDS 15 PERCENT, RECONNECT CIRCUITS TO BALANCE THE LOAD.	30.1	BRANCH CIRCUIT BREAKERS AND PANELS FOR PANELBOARDS SUPPLIED AND INSTALLED UNDER THIS CONTRACT, PROVIDE TYPEWRITTEN DIRECTORY OF WIRING LOADS AND AFFIX TO INSIDE OF PANELBOARD DOOR.
21.0	PART 21 - GUARANTEE/WARRANTY	30.2	208Y/120V, 3 PHASE, 4 WIRE POWER DISTRIBUTION SYSTEM AND ASSOCIATED FEEDERS SHALL BE PROVIDED IN THIS CONTRACT.
21.1	FURNISH A WRITTEN GUARANTEE/WARRANTY COUNTERSIGNED AND GUARANTEED BY THE GENERAL CONTRACTOR STATING:	30.3	SUPPLY AND INSTALL BOL-T-N BRANCH CIRCUIT BREAKERS FOR PANEL.
21.2	THAT ALL WORK EXECUTED UNDER THIS CONTRACT WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF COMPLETION OF THIS CONTRACT.	31.0	PART 31 - WIRING DEVICES
21.3	THE ABOVE PARTIES FURTHER AGREE TO, AT THEIR OWN EXPENSE, REPAIR AND REPLACE ALL SUCH DEFECTIVE WORK AND OTHER WORK DAMAGED THEREBY WHICH FALLS OR BECOMES DEFECTIVE DURING THE TERM OF THE GUARANTEE/WARRANTY PROVIDED THAT SUCH FAILURE IS NOT DUE TO IMPROPER USAGE.	31.1	LINE VOLTAGE SWITCHES SHALL BE RATED AT 20 AMPS AT 120 VOLTS OR EQUAL. SWITCHES SHALL BE OF GUARANTEE TYPE, UNLESS OTHERWISE NOTED. MOUNTING HEIGHT SHALL MATCH EXISTING, UNLESS OTHERWISE NOTED ON DRAWINGS.
21.4	THE PERIOD OF THE GUARANTEE SPECIFIED SHALL IN NO WAY SUPPLANT ANY OTHER GUARANTEE OF A LONGER PERIOD BUT SHALL BE BINDING ON WORK NOT OTHERWISE COVERED.	31.2	RECEPTABLES SHALL BE OF MOUNTING TYPE OR EQUIVALENT. RECEPTABLES' MOUNTING HEIGHT SHALL MATCH EXISTING, UNLESS OTHERWISE NOTED. CO-ORDINATE WITH ARCHITECTURAL FINISHES, BUILT-IN UNITS ETC.
22.0	PART 22 - CONDUIT	31.3	PLATES FOR ALL FLUSH MOUNTING DEVICES SHALL MATCH EXISTING TYPE.
22.1	ALL WIRE AND CABLE TO BE INSTALLED IN E.M.T. CONDUIT, UNLESS OTHERWISE INDICATED OR AS REQUIRED BY THE CANADIAN ELECTRICAL CODE. ALL E.M.T. CONNECTORS AND COUPLINGS MUST BE RAIN TIGHT (WET LOCATIONS ONLY) OR STEEL SET SCREW TYPE. (THE USE OF CAST METAL TYPE WILL NOT BE PERMITTED).	31.4	FOR ALL RECEPTABLES OTHER THAN STANDARD 15 and 20 AMP DUPLEX RECEPTABLES, PROVIDE LAMICOID NAMETAGS GIVING AMP RATING, PHASE AND VOLTAGE.
22.2	SURFACE MOUNTED CONDUITS TO BE INSTALLED PARALLEL TO STRUCTURAL LINES, WHERE BENDS OCCUR IN PARALLEL CONDUITS, BENDS SHALL BE CONCENTRIC.	32.0	PART 32 - LUMINAIRES
22.3	CONDUITS TO BE INSTALLED FREE FROM DENTS AND BRUISES. CONDUIT ENDS ARE TO BE PLUGGED TO PREVENT ENTRANCE OF DIRT OR MOISTURE.	32.1	ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL LUMINAIRES INCLUDING EXIST LIGHTS COMPLETE WITH LAMPS, MOUNTING BRACKETS, DRIVERS AND ALL NECESSARY ACCESSORIES IN ACCORDANCE WITH LUMINAIRE TYPES SHOWN ON DRAWINGS AND IN LUMINAIRE SCHEDULE.
23.0	ALL CONDUITS, EXCEPT WHERE OTHERWISE NOTED, TO BE SIZED IN ACCORDANCE WITH CANADIAN ELECTRICAL CODE.	32.2	SUPPLY AND INSTALL COMPLETE AND PROPER SUPPORTS AND HANGERS FOR ALL LUMINAIRES IN CEILING SPACE WHERE REQUIRED FOR PROPER SUPPORT OF OUTLETS AND LUMINAIRES HANGER ASSEMBLIES.
23.5	CONDUIT AND EQUIPMENT SHALL BE SUPPORTED BY AN APPROVED-ENGINEERED ("HILT") TYPE SYSTEM, THE USE OF PLASTIC, METAL OR WOOD INSERTS IS NOT PERMITTED.	32.3	LUMINAIRES SCHEDULE: REFER TO DRAWING E001 FOR LUMINAIRE SCHEDULE.
		33.0	PART 33 - EXIT LIGHTS / BATTERY OPERATED EMERGENCY LUMINAIRES
		33.1	EXIT LIGHTS AND BATTERY OPERATED EMERGENCY LUM



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Calgary, AB T2A 7H8
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PERMIT NUMBER: P 0258



Parks Canada

Canada Agency for Public Health

Canada Agency

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ELECTRICAL SPECIFICATIONS

Revision:

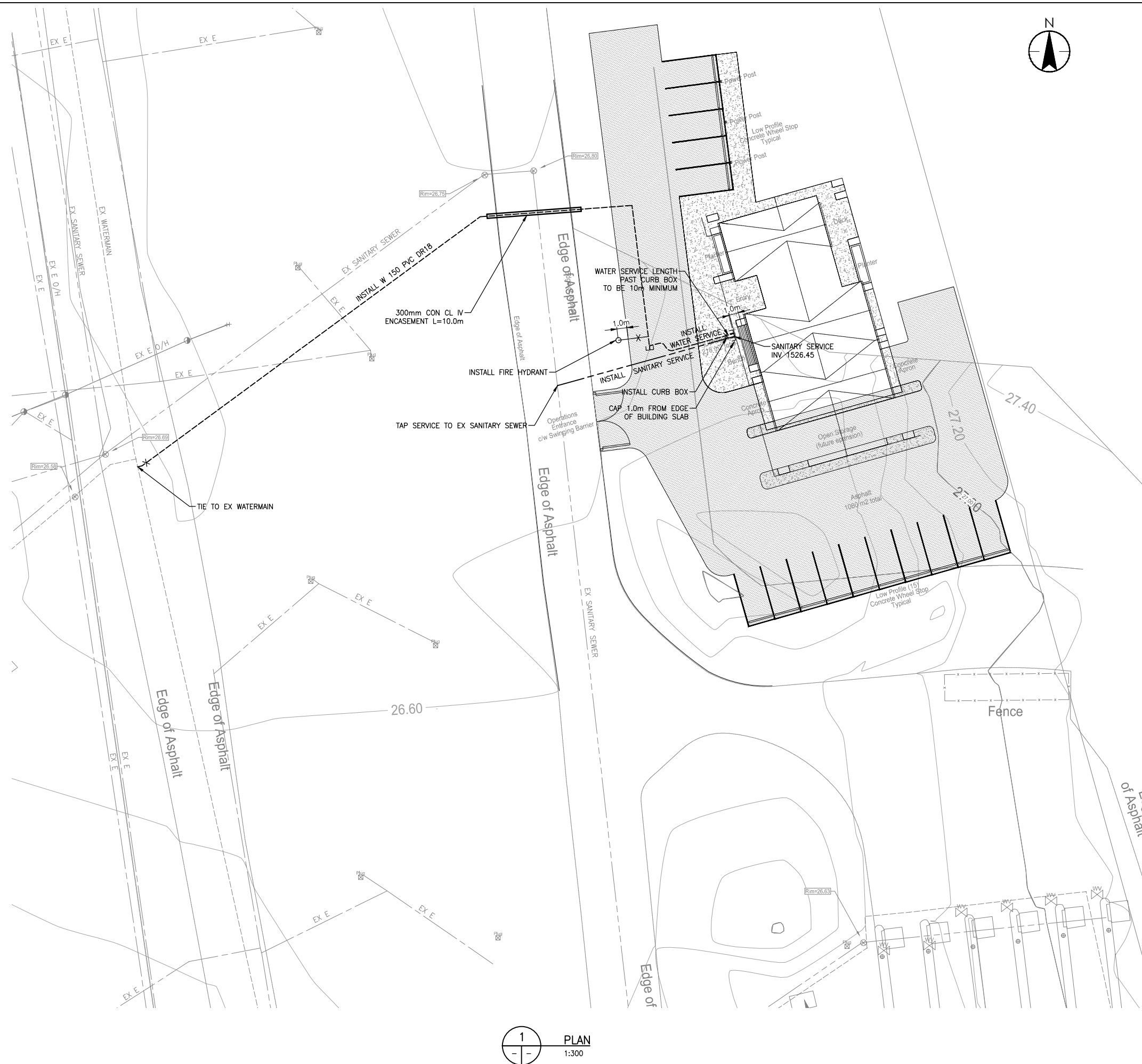
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CONTINUATION FOR SPECIFICATIONS SEE THE DRAWING E60

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Legend / Notes

1. SANITARY SERVICES TO BE 100mm DIA SDR28 PVC AND 2.5m DEEP MINIMUM.
2. WATER SERVICES TO BE 25mm DIA CROSS-LINKED POLYETHYLENE PIPE (PEX) AND 3.0m DEEP MINIMUM.
3. ALL CURB BOXES TO BE 3.0m DEEP AND LOCATED 2.0m (MINIMUM) AWAY FROM THE BUILDING ENVELOPE UNLESS OTHERWISE NOTED OTHERWISE.
4. CONTRACTOR TO ADJUST LINE ASSIGNMENT OF THE SERVICES AS NEEDED TO AVOID CUTTING OF EXISTING TREES. EXISTING SHRUBS CAN BE REMOVED TO FACILITATE CONSTRUCTION.
5. ALL PIPE INSTALLATION TO BE AS PER STANDARD SPECIFICATION WATERWORKS RECONSTRUCTION-2018.
6. GROUND CONTOURS ALONG PIPE ROUTE AS PER TOPOGRAPHIC SURVEY BY STANTEC CONSULTING LTD.-2017
7. LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR RESPONSIBLE FOR LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
8. AT CROSSINGS EXISTING UTILITIES SUPPORTED BY CONTRACTOR PER DIRECTION BY UTILITY OWNER.
9. ALL WATER/SANITARY SERVICES TO Tie TO EXISTING MAINS AS PER STANDARD SPECIFICATIONS WATERWORKS/SEWER CONSTRUCTION.
10. SURFACE DRAINAGE FROM THE DEVELOPMENT TO BE DIRECTED TO THE PROPOSED LANDSCAPED AREA WHICH SHOULD HAVE A 300mm THICK LAYER OF LOAM.
11. ALL ASPHALT CUTTING AND REPAIR WORK TO BE AS PER STANDARD SPECIFICATION WATERWORKS/SEWER CONSTRUCTION-2015.
12. WATERMAIN AND SERVICE TO BE INSULATED IF INSTALLATION IS LESS THAN 3.0m DEEP (CLAY) OR 3.3m DEEP (GRAVEL).

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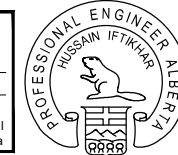
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Client/Project



LAKE LOUISE - OPERATION CENTER
CAMP GROUND
AB Canada

Title

GENERAL
SITE SERVICING PLAN
SHEET 1 OF 1

Project No. _____

Scale

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Issue/Revision

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