1. 8" THICK CONCRETE FOUNDATION WALL. 2. WALLS ASSUMED TO BE BACKFILLED WITH INSITU BACKFILL WITH ADEQUATE DRAINAGE LAYER AND WEEPING TILE 3. WALLS HAVE BEEN DESIGNED ASSUMING

ADEQUATE LATERAL SUPPORT AT THE TOP AND BOTTOM OF THE WALL

CONCRETE PROPERTIES:

1. 25 MPa CONCRETE, TYPE HS CEMENT 1 ½" CONCRETE COVER.

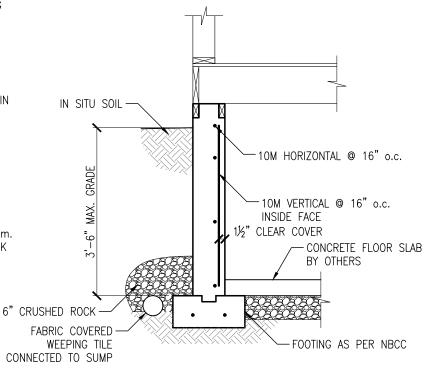
2. ALL CAST-IN-PLACE CONCRETE WORK IN ACCORDANCE WITH CSA-A23.1.

CONCRETE NOTE:

ALL CAST-IN-PLACE CONCRETE WORK IN ACCORDANCE WITH CSA-A23.1

REINFORCING STEEL NOTE:

1. TO CSA G30.18, GRADE 400, PLAIN FINISH FOR ALL BARS. MINIMUM SPLICE FOR 10M AND 15M TO BE 1000mm. 2. PERFORM CONCRETE REINFORCING WORK IN ACCORDANCE WITH CAN/CSA A23.3.



TYPICAL 4'-0"x8" FOUNDATION WALL REINFORCING DETAIL

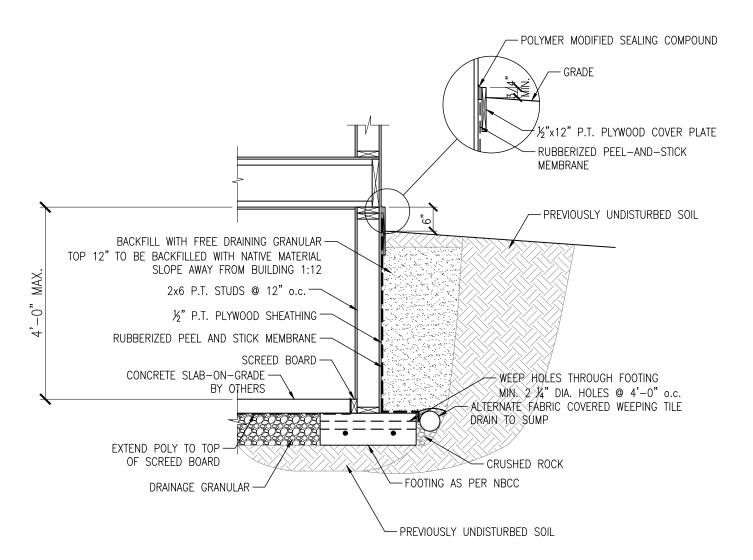


	U	JULT 31/1/	ISSUED	FOR CONSTRUCTION			
	REV.	DATE	COMMEN	ITS			
PROJECT: TYPICAL FOUNDATION DETAILS LAKE DIEFENBAKER, SASKATCHEWAN	TYPICAL CRAWL SPAC CONCRETE FON. WALL						
CLIENT: SANDY SHORES RESORT LAKE DIEFENBAKER, SASKATCHEWAN		SCALE: AS NOTED PROJECT NUMBER: 17–9698 DWG. No.					
Wednesday, June 10, 2010 8:44:40 AM							

JUNE 19/19

ISSUED FOR CONSTRUCTION

IIII V 31 /17 ISSUED FOR CONSTRUCTION



PWF WALL SECTION

SCALE 1/2"=1'-0"

1. MOISTURE BARRIER SHALL NOT EXTEND UNDER THE FOOTING PLATE OR BETWEEN THE GRANULAR DRAINAGE LAYER AND THE BACKFILL AT EXTERIOR WALL. 2. ALL FOUNDATION CONSTRUCTION TO BE IN ACCORDANCE WITH THE NBCC 2010 AND CSA-S406 "CONSTRUCTION OF PRESERVED WOOD FOUNDATIONS." 3. THE APPLICATION OF THIS DETAIL IS LIMITED TO 2 STOREY WOOD FRAME HOUSES WITH ROOF SPANS NOT EXCEEDING 50'-0" AND FLOOR SPANS NOT EXCEEDING 25'-0". NO ALLOWANCE HAS BEEN MADE FOR CONCRETE TOPPING OR OTHER HEAVY FLOOR FINISHES.



Rempel Engineering & Management Ltd

CONSULTANT:

1809 LORNE AVENUE. SASKATOON, SK., S7H 1Y5 PHONE: (306) 343-8737 FAX: (306) 343-8732 WWW.REMPELENG.CA

	REV.	DATE	COMMENTS	3		
PROJECT: TYPICAL FOUNDATION	DRAWING NAME: TYPICAL CRAWLSPAI					
DETAILS		ATION WALL				
LAKE DIEFENBAKER, SASKATCHEWAN	I WI I BENDANSIN WA					
CLIENT:	SCAL	E:		DWG. No.		
SANDY SHORES		AS NOTED				
RESORT	PROJ	ECT NUMBER	:	52. 1		
LAKE DIEFENBAKER, SASKATCHEWAN		17-9698				
		١	Vednesday.	June 19, 2019 8:44:49 AM		

JUNE 19/19

ISSUED FOR CONSTRUCTION

JULY 31/17 ISSUED FOR CONSTRUCTION

- 1. 8" THICK CONCRETE FOUNDATION WALL.
- 2. WALLS ASSUMED TO BE BACKFILLED WITH INSITU BACKFILL WITH ADEQUATE DRAINAGE LAYER AND WEEPING TILE
- 3. WALLS HAVE BEEN DESIGNED ASSUMING ADEQUATE LATERAL SUPPORT AT THE TOP AND BOTTOM OF THE WALL

CONCRETE PROPERTIES:

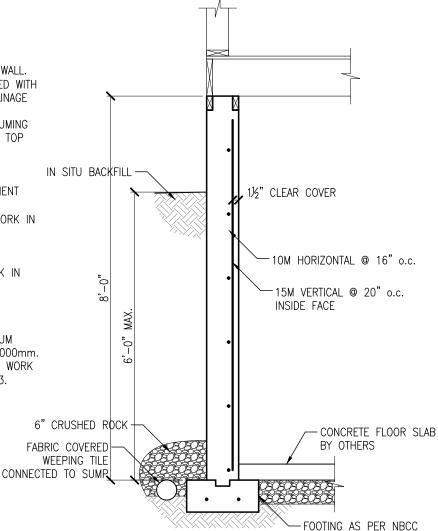
- 1. 25 MPa CONCRETE, TYPE HS CEMENT 1 1/3" CONCRETE COVER.
- 2. ALL CAST-IN-PLACE CONCRETE WORK IN ACCORDANCE WITH CSA-A23.1.

CONCRETE NOTE:

ALL CAST-IN-PLACE CONCRETE WORK IN ACCORDANCE WITH CSA-A23.1

REINFORCING STEEL NOTE:

1. TO CSA G30.18, GRADE 400, PLAIN FINISH FOR ALL BARS. MINIMUM SPLICE FOR 10M AND 15M TO BE 1000mm. 2. PERFORM CONCRETE REINFORCING WORK IN ACCORDANCE WITH CAN/CSA A23.3.





TYP. 8'-0"x8" FOUNDATION WALL REINFORCING DETAIL SCALE 1/2"=1'-0"

		0	JULY 31/17	ISSUED	FOR CONSTRUCTION	
		REV.	DATE	COMMEN	TS	
CONSULTANT:	PROJECT:	DRAW	'ING NAME:			
Rempel Engineering	TYPICAL FOUNDATION DETAILS	TYPICAL BASEMENT FOUNDATION WALL				
1809 LORNE AVENUE.	LAKE DIEFENBAKER, SASKATCHEWAN	•				
SASKATOON, SK., S7H 1Y5	CLIENT:	SCALI	E:		DWG. No.	
PHONE: (306) 343-8737	SANDY SHORES		AS NOTED			
FAX: (306) 343-8732 WWW.REMPELENG.CA	RESORT	PROJ	ECT NUMBER	ξ:	53. 1	
WWW.REIN ELERB.BA	LAKE DIEFENBAKER, SASKATCHEWAN		17-9698			

JUNE 19/19 ISSUED FOR CONSTRUCTION

- 1. 8" THICK CONCRETE FOUNDATION WALL.
- 2. WALLS ASSUMED TO BE BACKFILLED WITH INSITU BACKFILL WITH ADEQUATE DRAINAGE LAYER AND WEEPING TILE
- 3. WALLS HAVE BEEN DESIGNED ASSUMING ADEQUATE LATERAL SUPPORT AT THE TOP AND BOTTOM OF THE WALL

CONCRETE PROPERTIES:

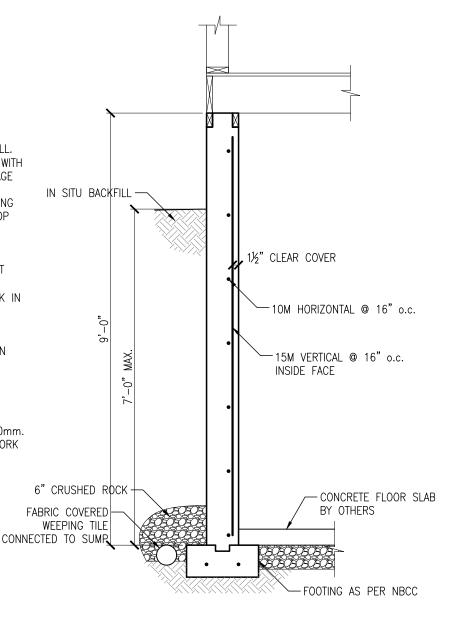
- 1. 25 MPa CONCRETE, TYPE HS CEMENT 1 ½" CONCRETE COVER.
- 2. ALL CAST-IN-PLACE CONCRETE WORK IN ACCORDANCE WITH CSA-A23.1.

CONCRETE NOTE:

ALL CAST-IN-PLACE CONCRETE WORK IN ACCORDANCE WITH CSA-A23.1

REINFORCING STEEL NOTE:

1. TO CSA G30.18, GRADE 400, PLAIN FINISH FOR ALL BARS. MINIMUM SPLICE FOR 10M AND 15M TO BE 1000mm. 2. PERFORM CONCRETE REINFORCING WORK IN ACCORDANCE WITH CAN/CSA A23.3.



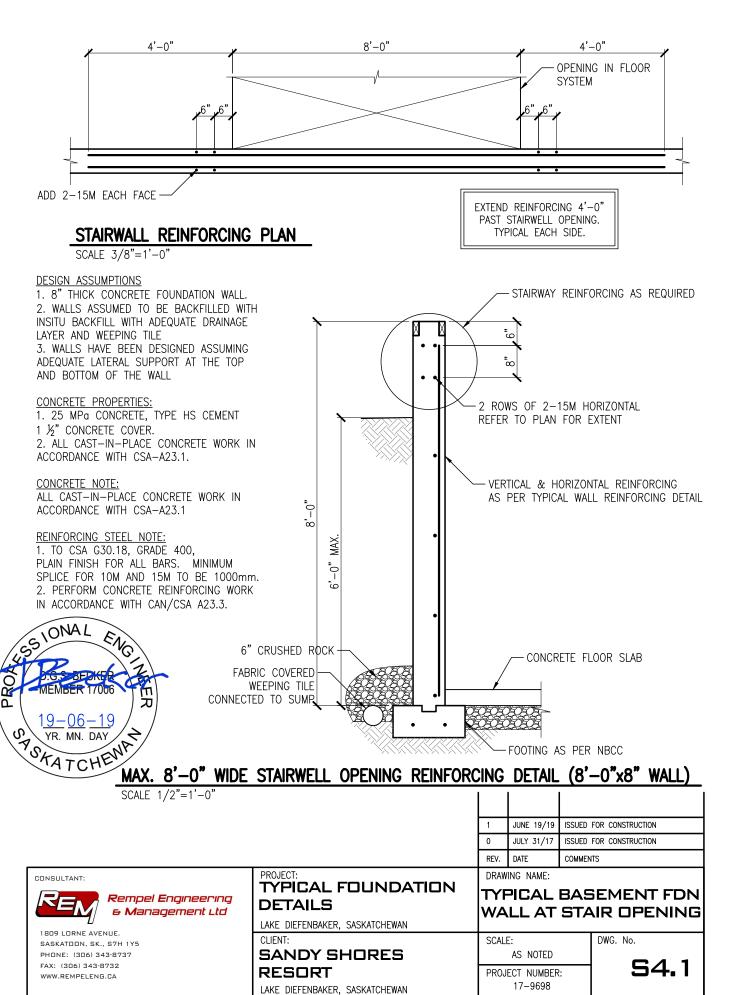


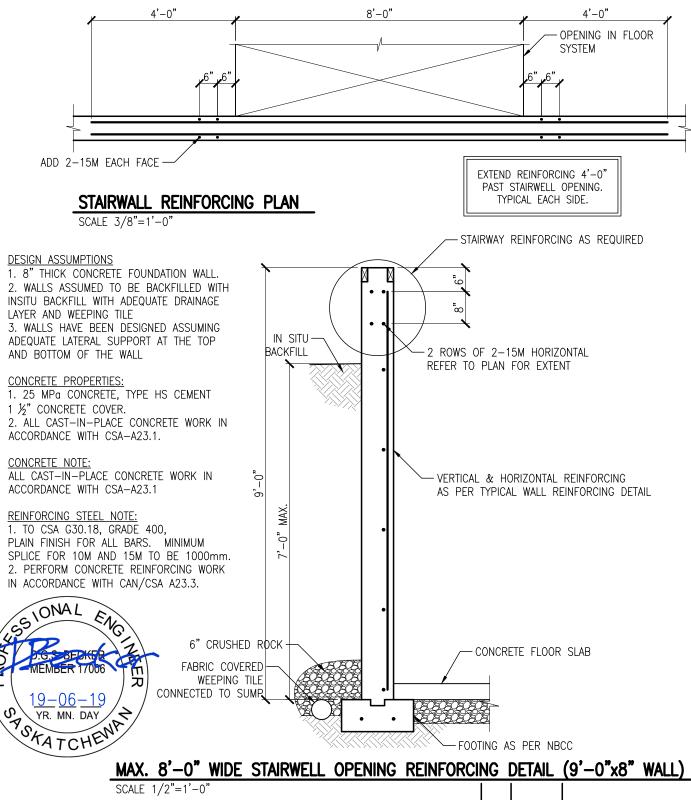
TYP. 9'-0"x8" FOUNDATION WALL REINFORCING DETAIL SCALE 1/2"=1'-0"

JUNE 19/19

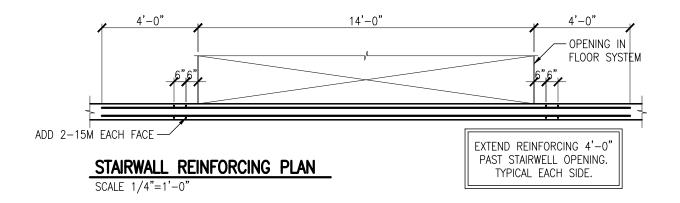
	0		JULY 31/17	ISSUED F	FOR CONSTRUCTION	
		REV.	DATE	COMMENT	TS .	
CONSULTANT:	PROJECT:	DRAWING NAME: TYPICAL BASEMENT FOUNDATION WALL				
Rempel Engineering 6 Management Ltd	TYPICAL FOUNDATION DETAILS					
1809 LORNE AVENUE.	LAKE DIEFENBAKER, SASKATCHEWAN					
SASKATOON, SK., S7H 1Y5	CLIENT:	SCAL	E:		DWG. No.	
PHONE: (306) 343-8737	SANDY SHORES		AS NOTED			
FAX: (306) 343-8732 WWW.REMPELENG.CA	RESORT	PROJ	IECT NUMBER	₹:	53.2	
	LAKE DIEFENBAKER, SASKATCHEWAN		17-9698			

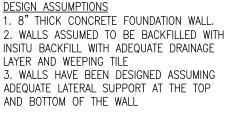
ISSUED FOR CONSTRUCTION





SCALE 1/2 =1 -0		1 0 REV.	JUNE 19/19 JULY 31/17 DATE		FOR CONSTRUCTION FOR CONSTRUCTION
Rempel Engineering & Management Ltd	PROJECT: TYPICAL FOUNDATION DETAILS LAKE DIEFENBAKER, SASKATCHEWAN	TYF			EMENT FDN IR OPENING
1809 LORNE AVENUE. SASKATOON, SK., S7H 1Y5 PHONE: (306) 343-8737 FAX: (306) 343-8732 WWW.REMPELENG.CA	CLIENT: SANDY SHORES RESORT LAKE DIEFENBAKER, SASKATCHEWAN	SCALI PROJ	E: AS NOTED ECT NUMBER 17-9698):	DWG. No. 54.2





CONCRETE PROPERTIES:

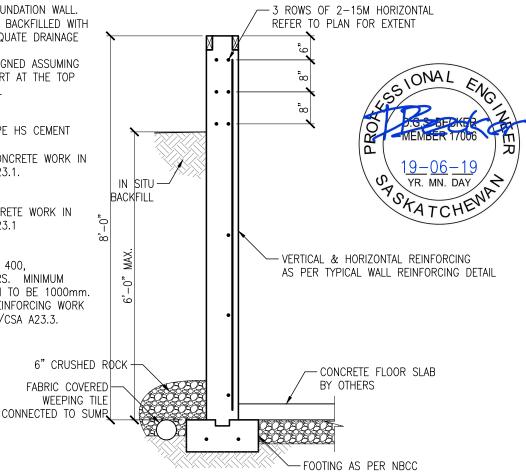
- 1. 25 MPa CONCRETE, TYPE HS CEMENT 1 ½" CONCRETE COVER.
- 2. ALL CAST-IN-PLACE CONCRETE WORK IN ACCORDANCE WITH CSA-A23.1.

CONCRETE NOTE:

ALL CAST-IN-PLACE CONCRETE WORK IN ACCORDANCE WITH CSA-A23.1

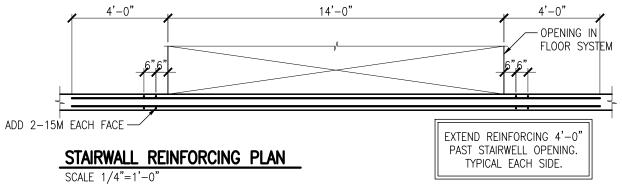
REINFORCING STEEL NOTE:

1. TO CSA G30.18, GRADE 400, PLAIN FINISH FOR ALL BARS. MINIMUM SPLICE FOR 10M AND 15M TO BE 1000mm. 2. PERFORM CONCRETE REINFORCING WORK IN ACCORDANCE WITH CAN/CSA A23.3.



MAX. 14'-0" WIDE STAIRWELL OPENING REINFORCING DETAIL (8'-0"x8" WALL) SCALE 1/2"=1'-0" I I I

		1 0 REV.	JUNE 19/19 JULY 31/17 DATE		FOR CONSTRUCTION FOR CONSTRUCTION
Rempel Engineering 6 Management Ltd	PROJECT: TYPICAL FOUNDATION DETAILS LAKE DIEFENBAKER, SASKATCHEWAN	DRAW	ING NAME:	BAS	SEMENT FDN LIR OPENING
1809 LORNE AVENUE. SASKATOON, SK., S7H 1Y5 PHONE: (306) 343-8737 FAX: (306) 343-8732 WWW.REMPELENG.CA	CLIENT: SANDY SHORES RESORT LAKE DIEFENBAKER, SASKATCHEWAN	SCALI PROJ	E: AS NOTED ECT NUMBER 17-9698	:	DWG. No. 54.3



1. 8" THICK CONCRETE FOUNDATION WALL.
2. WALLS ASSUMED TO BE BACKFILLED WITH INSITU BACKFILL WITH ADEQUATE DRAINAGE LAYER AND WEEPING TILE

3. WALLS HAVE BEEN DESIGNED ASSUMING ADEQUATE LATERAL SUPPORT AT THE TOP AND BOTTOM OF THE WALL

CONCRETE PROPERTIES:

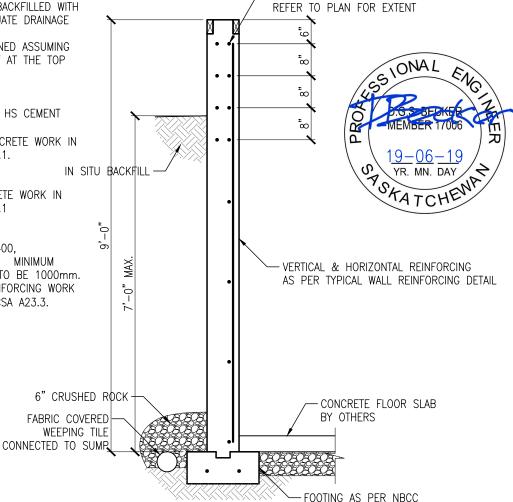
- 1. 25 MPa CONCRETE, TYPE HS CEMENT 1 ½" CONCRETE COVER.
- 2. ALL CAST-IN-PLACE CONCRETE WORK IN ACCORDANCE WITH CSA-A23.1.

CONCRETE NOTE:

ALL CAST-IN-PLACE CONCRETE WORK IN ACCORDANCE WITH CSA-A23.1

REINFORCING STEEL NOTE:

1. TO CSA G30.18, GRADE 400, PLAIN FINISH FOR ALL BARS. MINIMUM SPLICE FOR 10M AND 15M TO BE 1000mm. 2. PERFORM CONCRETE REINFORCING WORK IN ACCORDANCE WITH CAN/CSA A23.3.



4 ROWS OF 2-15M HORIZONTAL

MAX. 14'-0" WIDE STAIRWELL OPENING REINFORCING DETAIL (9'-0"x8" WALL)

SCALE 1/2"=1'-0"		1	JUNE 19/19	ISSUED	FOR CONSTRUCTION	
		0	JULY 31/17		FOR CONSTRUCTION	
		REV.	DATE	COMMEN	ITS	
CONSULTANT: Rempel Engineering Management Ltd 1809 LORNE AVENUE.	PROJECT: TYPICAL FOUNDATION DETAILS LAKE DIEFENBAKER, SASKATCHEWAN	TYF	DRAWING NAME: TYPICAL BASEMENT FI WALL AT STAIR OPENII			
TBUS LURNE AVENUE. SASKATOON, SK., S7H 1Y5 PHONE: (306) 343-8737 FAX: (306) 343-8732 WWW.REMPELENG.CA	CLIENT: SANDY SHORES RESORT LAKE DIEFENBAKER, SASKATCHEWAN	SCAL	E: AS NOTED ECT NUMBER 17-9698	: :	DWG. No. 54.4	

REQUIRED REINFORCING FOR 8'-0" HIGH BASEMENT WALL									
WIDTH OF WINDOW OPENING	I DANS FAUD SIDE OF I DUNIZUMIAL DAN								
4'-0" - 4'-6"	1-15M	1-10M							
5'-0" - 7'-0"	1-15M	1-15M							
7'-6"	1-15M	1-20M							
8'-0"	1-20M	1-20M							

NOTE: MAX. 6'-0" GRADE

REQUIRED REINFORCING FOR 9'-0" HIGH BASEMENT WALL								
WIDTH OF WINDOW OPENING	TO THE THEORY OF THE TOTAL OF T							
4'-0" - 5'-0"	1-20M	1-15M						
5'-6" - 6'-6"	1-20M	1-20M						
7'-0"	1-20M	2-15M						
7'-6" - 8'-0"	2-15M	2-15M						

NOTE: MAX. 7'-0" GRADE

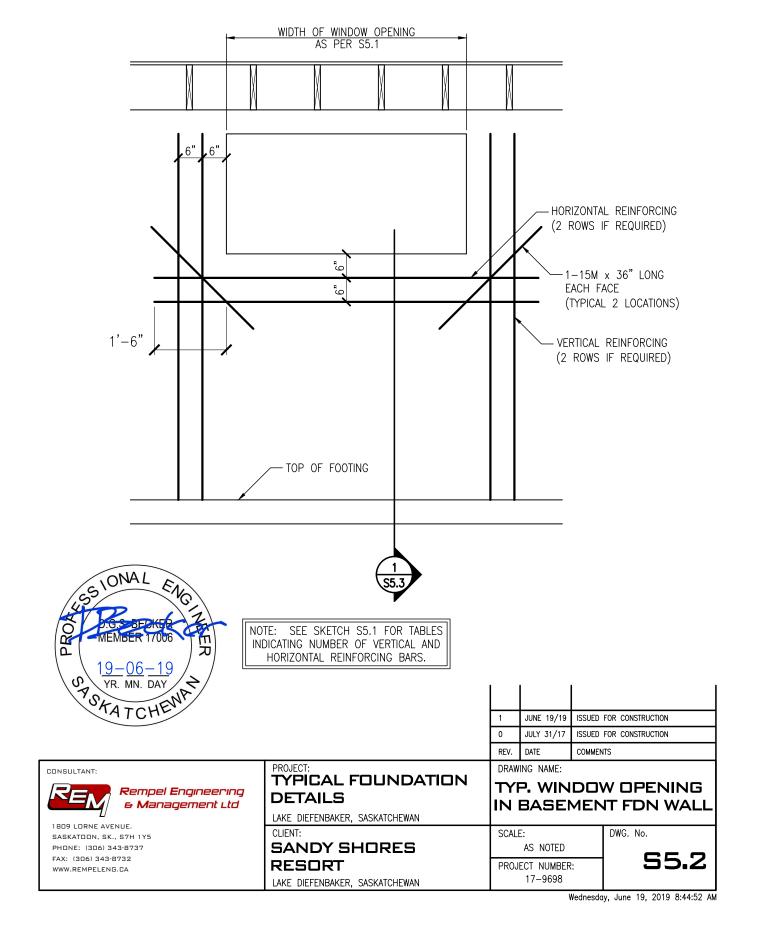
NOTE: SEE SKETCH S5.2 SHOWING ELEVATION OF WINDOW REINFORCING

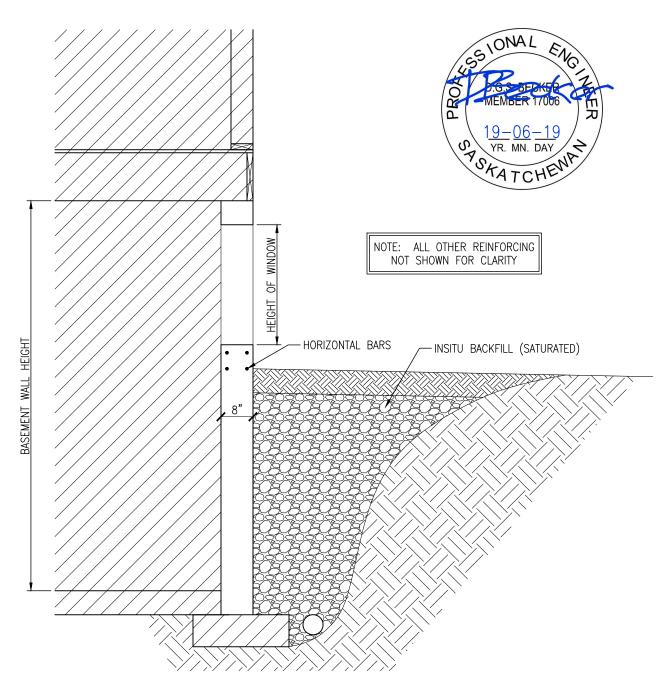


JULY 31/17 ISSUED FOR CONSTRUCTION REV. DATE COMMENTS PROJECT: DRAWING NAME: CONSULTANT: TYPICAL FOUNDATION TYP. WINDOW OPENING Rempel Engineering DETAILS & Management Ltd IN BASEMENT FDN WALL LAKE DIEFENBAKER, SASKATCHEWAN 1809 LORNE AVENUE. SCALE: DWG. No. SASKATOON, SK., S7H 1Y5 **SANDY SHORES** AS NOTED PHONE: (306) 343-8737 **S5.1** FAX: (306) 343-8732 RESORT PROJECT NUMBER: WWW.REMPELENG.CA 17-9698 LAKE DIEFENBAKER, SASKATCHEWAN

ISSUED FOR CONSTRUCTION

JUNE 19/19





TYP. WINDOW OPENING IN BASEMENT FOUNDATION WALL S5.3 SCALE 1/2"=1'-0"

		1	JUNE 19/19		FOR CONSTRUCTION
		0 REV.	JULY 31/17 DATE	ISSUED	FOR CONSTRUCTION TS
Rempel Engineering & Management Ltd	PROJECT: TYPICAL FOUNDATION DETAILS LAKE DIEFENBAKER, SASKATCHEWAN	DRAW TYF	ING NAME:		W OPENING IT FDN WALL
1809 LORNE AVENUE. SASKATOON, SK., S7H 1Y5 PHONE: (306) 343-8737 FAX: (306) 343-8732 WWW.REMPELENG.CA	CLIENT: SANDY SHORES RESORT LAKE DIEFENBAKER, SASKATCHEWAN	SCALI PROJ	E: AS NOTED ECT NUMBER 17-9698	<u>:</u>	DWG. No. 55.3