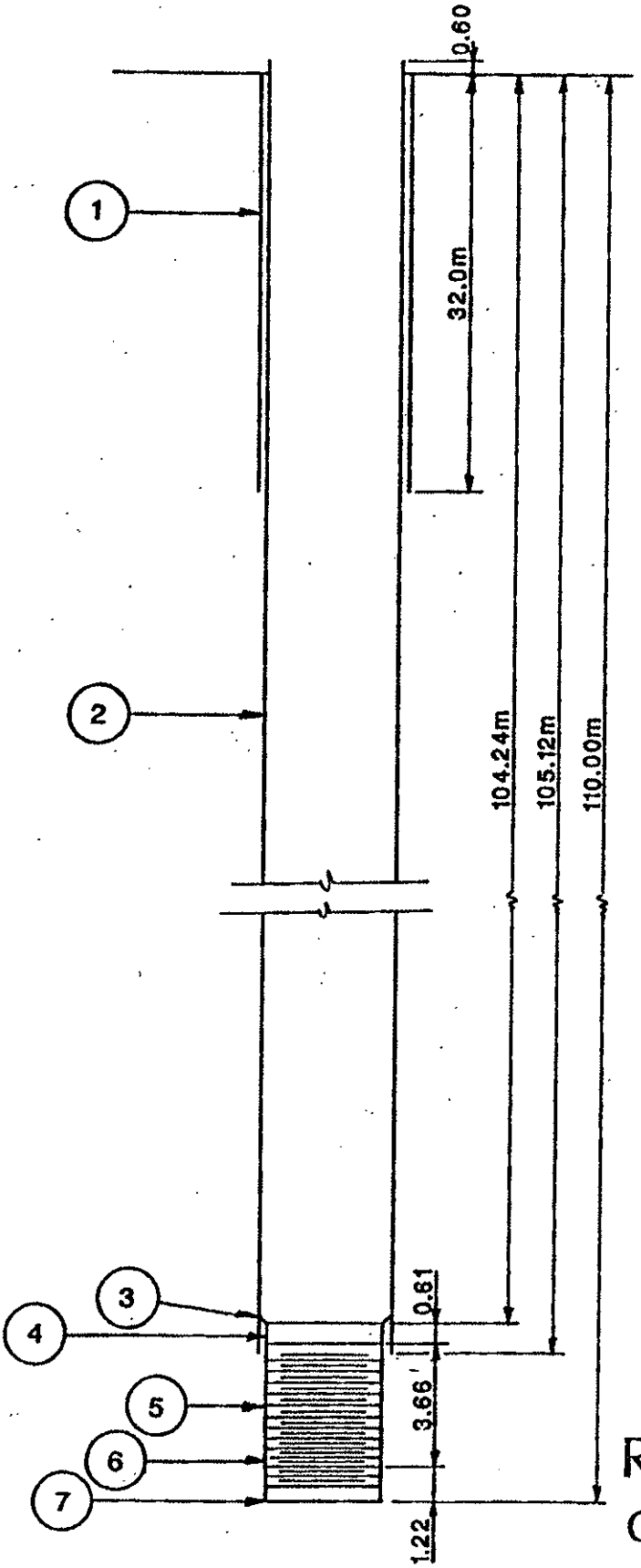
ROSS RIVER
LITHOLOGY

Depth (m)	Lithology	Comments
0 - 2.7	Till - sandy - silty, pebbles to 15 mm, gravel lens from 2.1 - 2.74 m (no noticable water)	
2.7 - 8.2	Till - dry, sandy to 4.57 m increase in moisture, dark grey, top of permafrost at approximately 8.23 m	Begin injecting water at 7.62 m
8.2 - 18.5	Till - sandy, silty, some bedrock	
18.5 - 60.0	Till - silty clay, some sand, black, continue injecting water	
60.0 - 101.5	Till - silty sandy, some clay, becomes saturated with depth	Sand is running and sloughing on each connection
101.5 - 110.0	Gravel to 25 mm size, round to sub-round, producing water in excess of 25 L/sec	

[redacted]



KEYNOTES

1 203mm O.D. STEEL CASING

2 168mm O.D. X 0.280mm WALL STEEL CASING

3 JOHNSON LEAD PACKER

4 141mm O.D. STEEL RISER

5 143mm O.D. X 124mm I.D. STAINLESS STEEL WELL SCREEN SLOTTED 0.64mm

6 143mm O.D. X 124mm I.D. STAINLESS STEEL WELL SCREEN SLOTTED 0.76mm

7 END CAP

ROSS RIVER WATER WELL
COMPLETION DETAILS

Hydrogeological Assessment	Yukon Government Community Services	PROJECT NO. - BOREHOLE NO.
Community Well	DRILL: Air Rotary	[redacted]
Ross River, YT	6874867N; 633543E; Zone 8	

SAMPLE TYPE: DISTURBED | NO RECOVERY | SPT | A-CASING | SHELBY TUBE | CORE

BACKFILL TYPE: BENTONITE | PEA GRAVEL | SLOUGH | GROUT | DRILL CUTTINGS | SAND

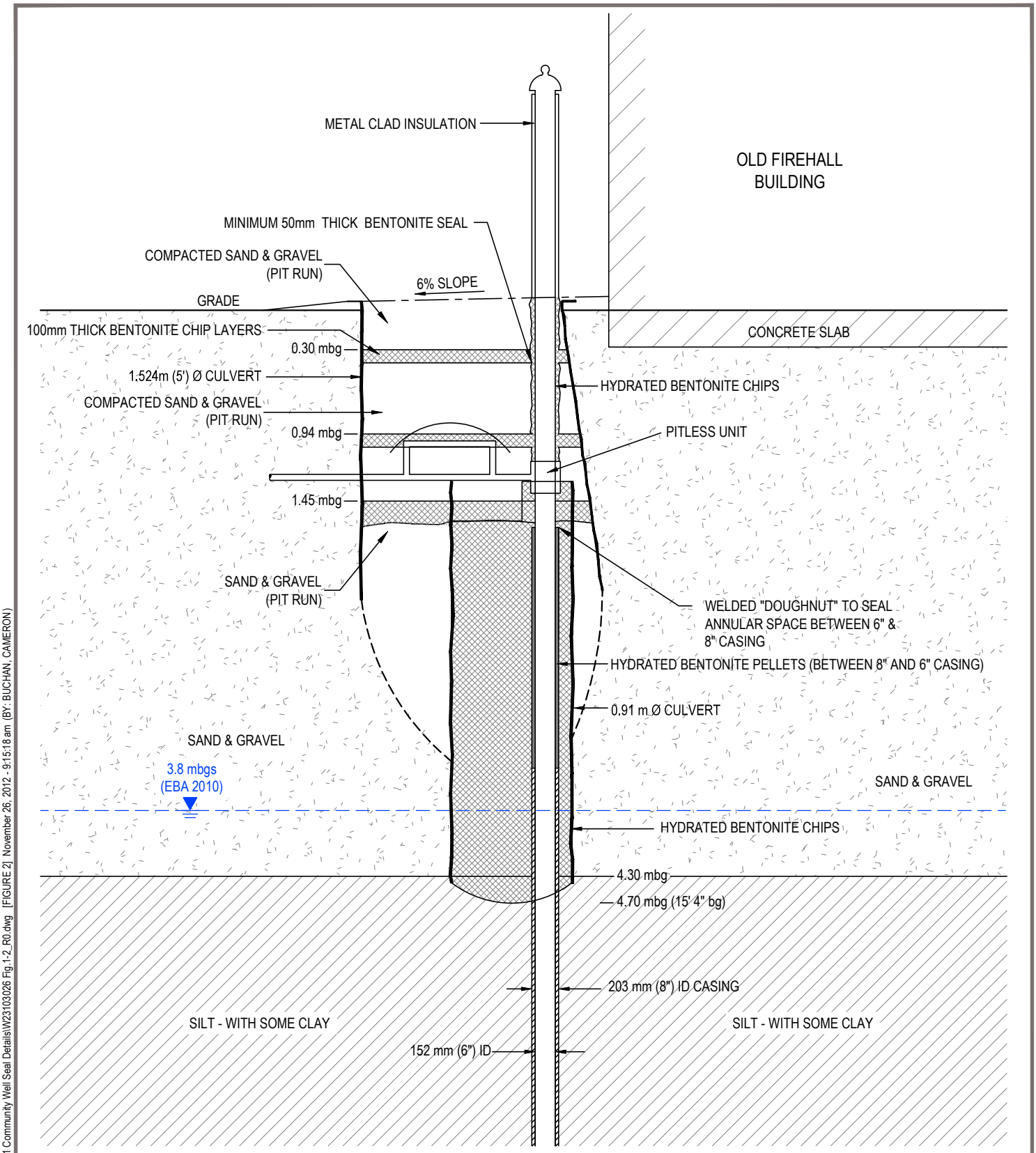
Depth (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	TEMP (°C)	SPT (N)	STANDARD PENETRATION (N) 20 40 60 80 / POCKET PEN. (kPa) 100 200 300 400 / PLASTIC M.C. LIQUID 20 40 60 80	GROUND ICE DESCRIPTION	Depth (ft)
0	SAND AND GRAVEL - trace silt	SPT	1		20	■	SEASONALLY FROZEN	0
1							UNFROZEN	
2		SPT	2		9	■		5
3		SPT	3	0.2	9	■		10
4		SPT	4	1.7	6	■		15
5	SILT - some clay to SILT, clayey	SPT	5	1.9	6	■		20
6		SPT	6	-0.1	21	■	PERMAFROST with occasional ice lenses	25
7								30
8		SPT	7	-0.2	20	■		35
9								40
10								45
11							UNFROZEN	50
12		SPT	8	2.2	6	■		55
13								60
14								65
15		SPT	9	0.7	9	■		70
16								75
17		SPT	10	0.9	11	■		80
18								85
19								90
20		SPT	11	2.5	17	■		95
21								100
22								105
23								110
24								115
25		SPT	12	3.2	15	■	~ 2 cm thickness	120
26	SAND							125
27	SILT - some clay to SILT clayey							130
28								135
29								140
30								145
31								150
32								155
33								160
34								164
35								
36								
37								
38								
39								
40								
41		SPT	13	3.5	15	■		
42								
43								
44								
45								
46								
47								
48	END OF BOREHOLE 47 m							
49								
50								

[redacted]

COMPLETION DEPTH: 47 m

COMPLETE: 3/9/2010

YELLOWKNIFE W23101309.GPJ EBA.GDT 10/05/13



NOTE : COMPACTION WAS LIMITED AROUND AND ABOVE PIPING DUE TO CONCERNS ABOUT ELBOW IN PIPE AND LIMITED AREA IN 5 ft CULVERT. MATERIAL WAS COMPACTED ABOVE PIPE ELBOW AFTER INSTALLING CULVERT SECTION TO PROTECT PIPING.

0 2

Scale: 1: 40 (metres)

[redacted]

WELL SEAL - ROSS RIVER COMMUNITY WELL
ROSS RIVER, YUKON

AS-BUILT WELL SEAL DETAILS

PROJECT NO.	DWN	CKD	REV
[redacted]			0

OFFICE	DATE
EBA-WHSE	November 23, 2012

Figure 2

Q:\Whitehorse\Data\0201drawings\Ross River\W23103026-01 Community Well Seal Details\W23103026 Fig.1-2_R0.dwg [FIGURE 2] November 26, 2012 - 9:15:18 am (BY: BUCHAN, CAMERON)