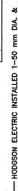


APPENDIX C

**Railway #4 and #7 Wellhead
Completion Records (Koers &
Associates Engineering Ltd.,
1995, 1997)**



WELLHEAD PAD FOR WELL No.4



N.T.S.

[illegible]DESCRIPTION

NOTES:

1. PROBE AND PUMP WIRES ARE SECURELY STRAPPED TO THE RISER PIPING.
2. STEEL PIPE FITTINGS ABOVE CASING FLANGE ARE COATED INSIDE WITH A PO

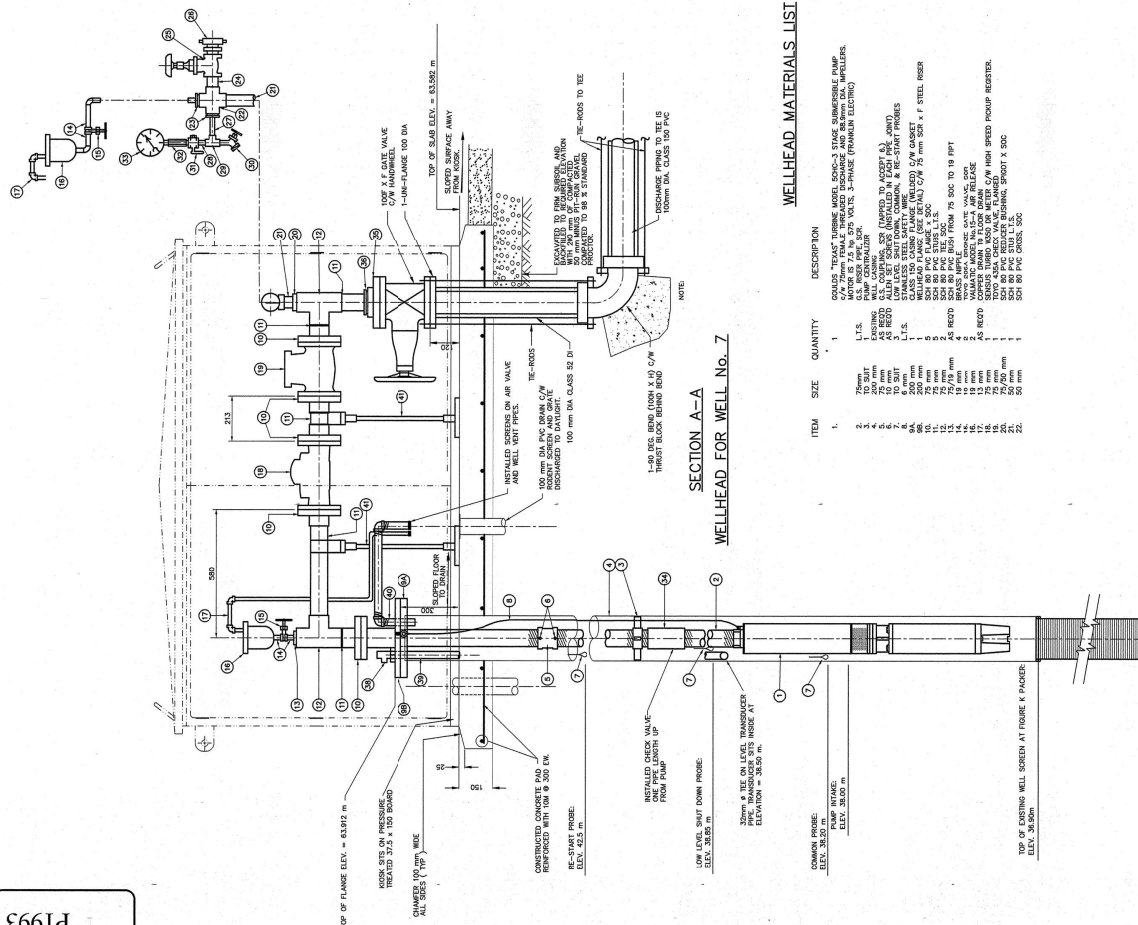
Design by	Date
-----------	------

Entered By _____

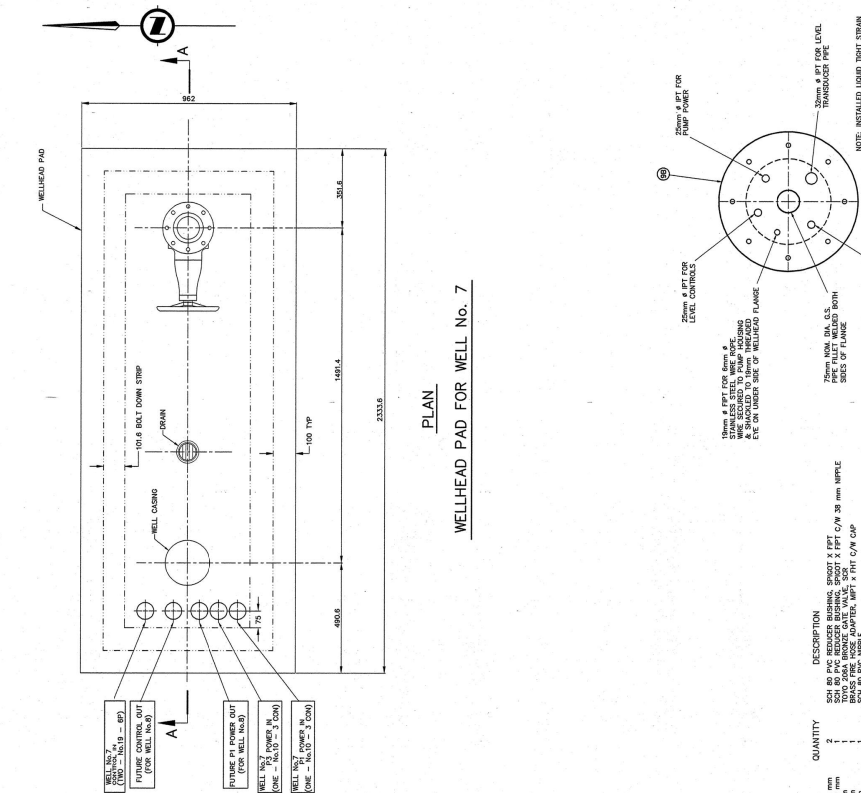
[illegible]

Scale

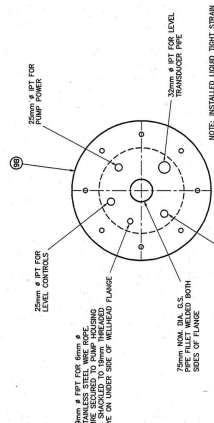
1. *Journal of the American Medical Association*, 1997; 277: 1033-1038.



SECTION A-A
WELLHEAD FOR WELL No. 7



PLAN
WELLHEAD PAD FOR WELL No. 7



WELLHEAD FLANGE N.T.S.

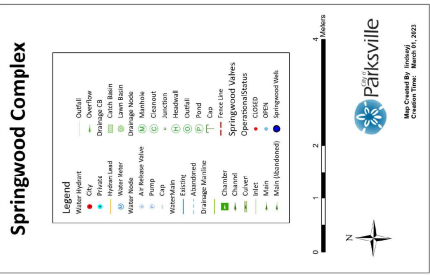
[illegible][illegible]

RECORD OF ISSUE				
No.	DATE	BY	ENG.	DESCRIPTION
1	JUNE 11/97	FRB	MP	ISSUED FOR APPROVALS
2	JUNE 11/97	FRB	MP	ISSUED FOR TENDER
3	NOV. /97	ON		RECORD DRAINING

19.	75 mm	1	TOTO 45SA CHECK VALVE, FLANGED
20.	75 mm	1	SHIMADZU 10000000000000000000
21.	50 mm	1	SHIMADZU 10000000000000000000
22.	50 mm	1	SHIMADZU 10000000000000000000

APPENDIX D

**Springwood Water Complex Figure,
City of Parksville, 2023c**



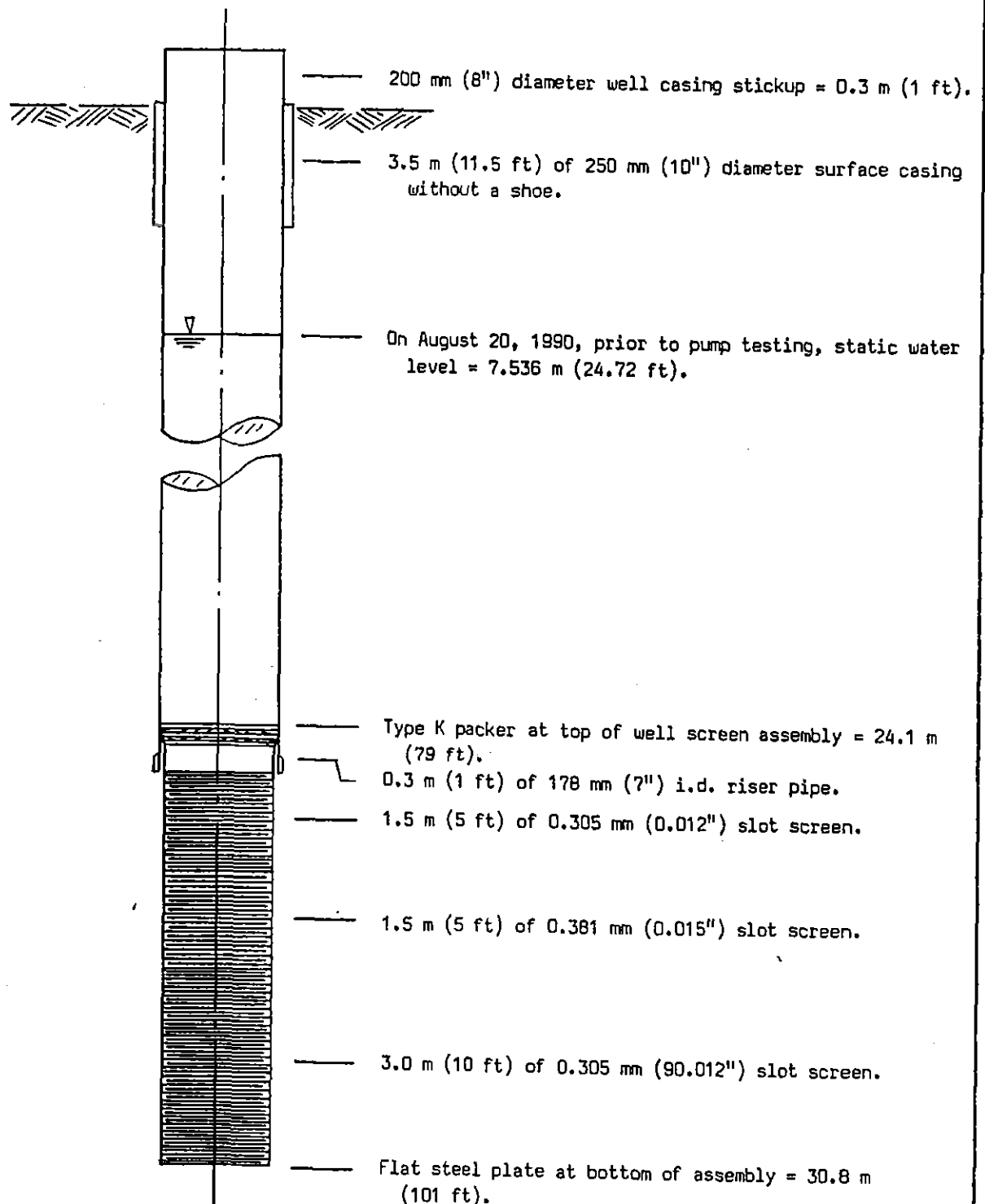
(Inlet at Res. No. 5-Open)

APPENDIX E

Water Well Records (Well Logs)

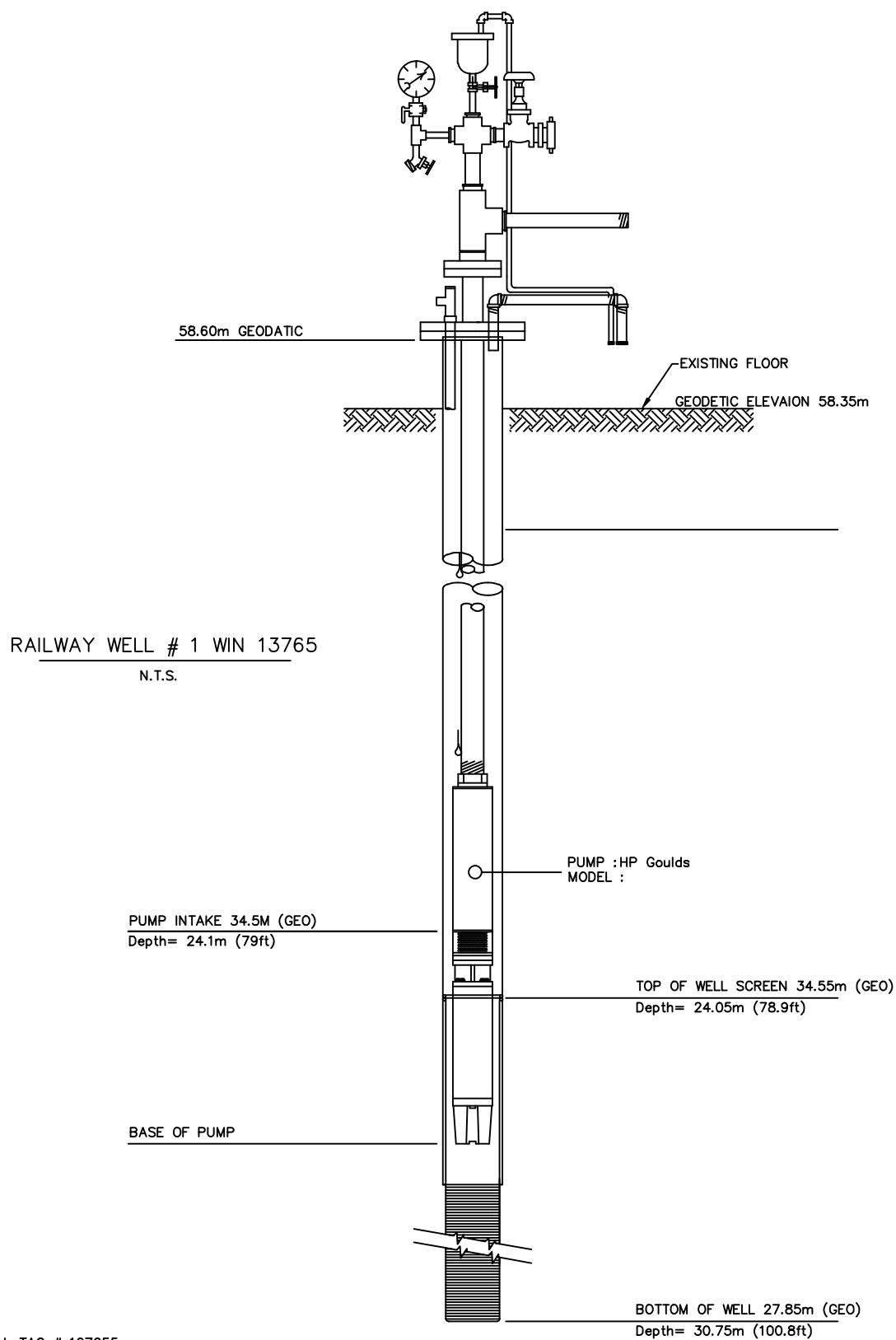
FIGURE 7

CITY OF PARKSVILLE RAILWAY STATION WELL NO. 1
CONSTRUCTION DETAILS



Notes:

1. The sketch is not to scale.
2. The well screen is 200 mm (8") nominal diameter Johnson stainless steel.
3. All measurements are below the 200 mm diameter well casing unless otherwise indicated.



MINISTRY WELL TAG # 107055

CITY OF
PARKSVILLE

ENGINEERING STANDARD

RAILWAY WELL # 1

DATE: March 2015

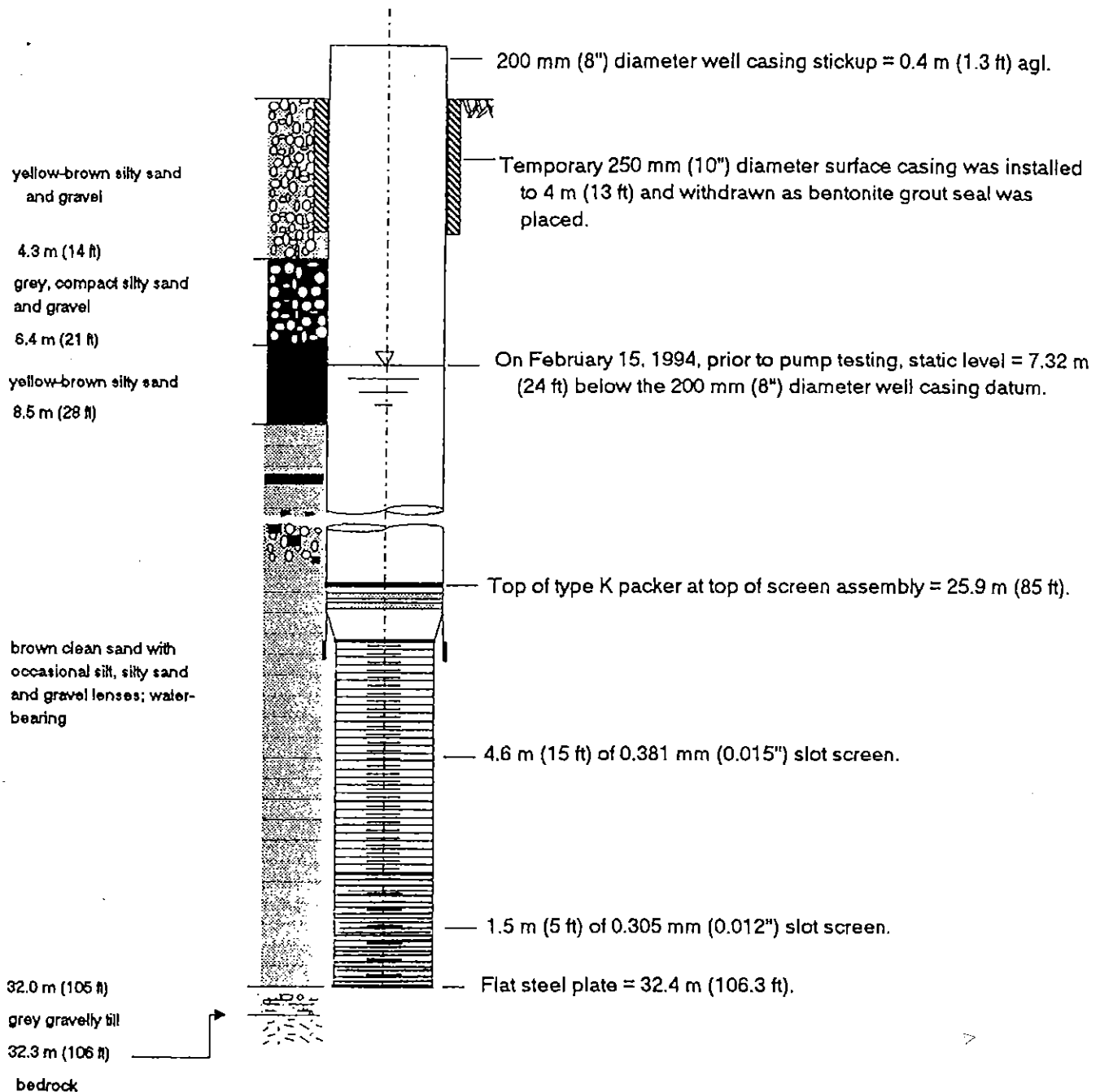
APP. BY: BBS

DRAWING No.
RW1

REV.
3

FIGURE 3

CITY OF PARKSVILLE RAILWAY STATION WELL 2-1994
CONSTRUCTION DETAILS



Notes:

1. The sketch is not to scale.
2. The well screen is 200 mm (8") nominal diameter Johnson stainless steel, of 168 mm (6.6") i.d.
3. All measurements are below the top of the well casing unless otherwise indicated.

ELEVATION= 58.64m GEODETIC
Depth= 0.0m

EXISTING FLOOR

SWL = 11.65m (38.25ft) bellow flange
March 2015

DIAMETER OF WELL 20cm (8")
DIAMETER OF MOTOR 15cm (6")

RAILWAY WELL # 2 WIN 13758
N.T.S.

PUMP : 7.5HP 575V
MODEL : GRUNDFOS 150575-4

PUMP INTAKE 33.54m GEO
Depth= 25.1m (82.3ft)

TOP OF WELL SCREEN 32.85m GEO
Depth= 25.79m (84.6ft)

BASE OF PUMP 32.94m GEO
Depth= 25.7m (84.3ft)

Latitude: 49°18'28.20"
Longitude: 124°19'09.79"

MINISTRY WELL TAG# 107040

BOTTOM OF WELL 26.36m GEO
Depth= 32.28m (105.9ft)

CITY OF
PARKSVILLE

ENGINEERING STANDARD

RAILWAY WELL # 2

DATE: March, 2015

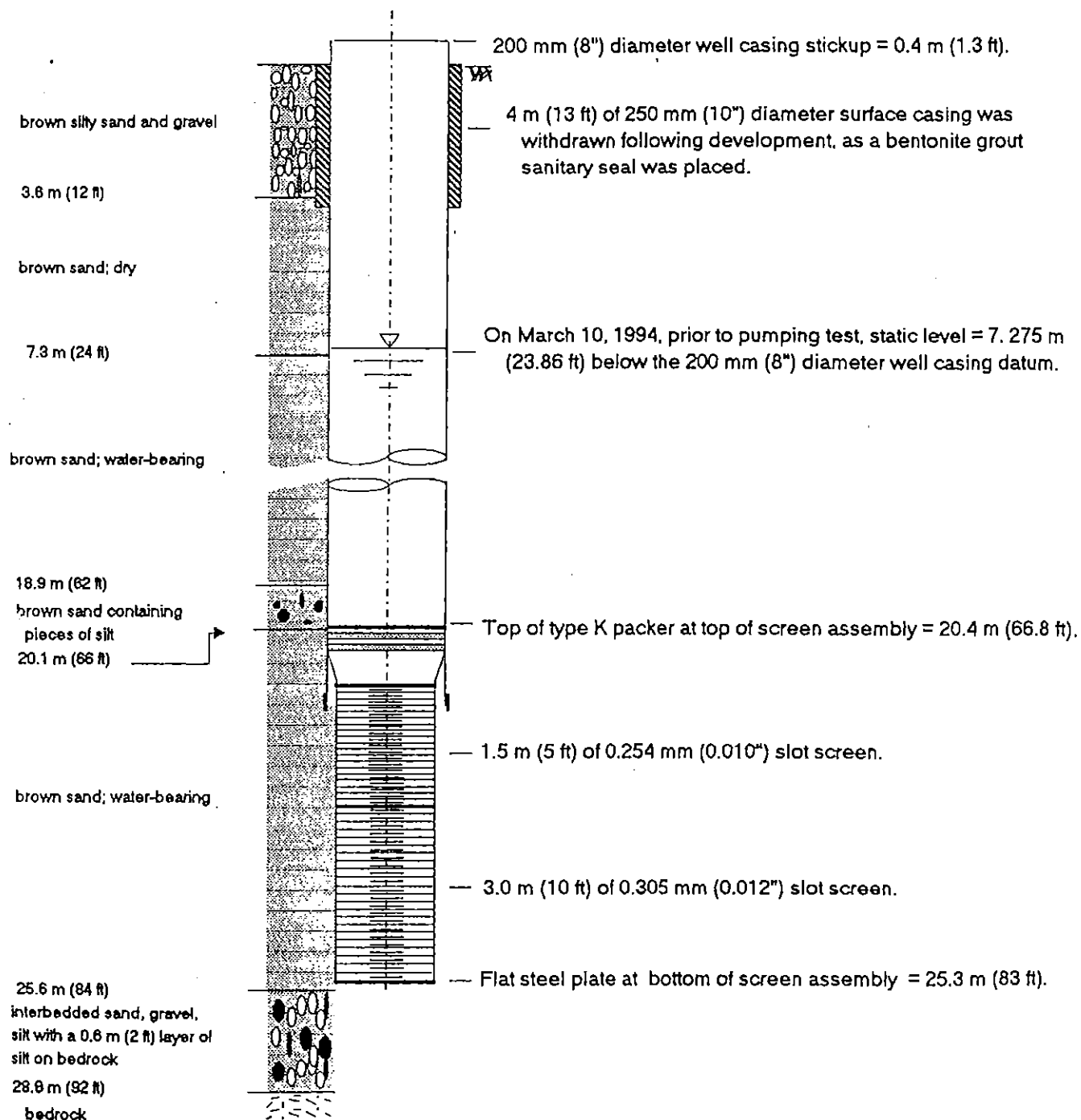
APP. BY: BBS

DRAWING No.
RW2

REV.
3

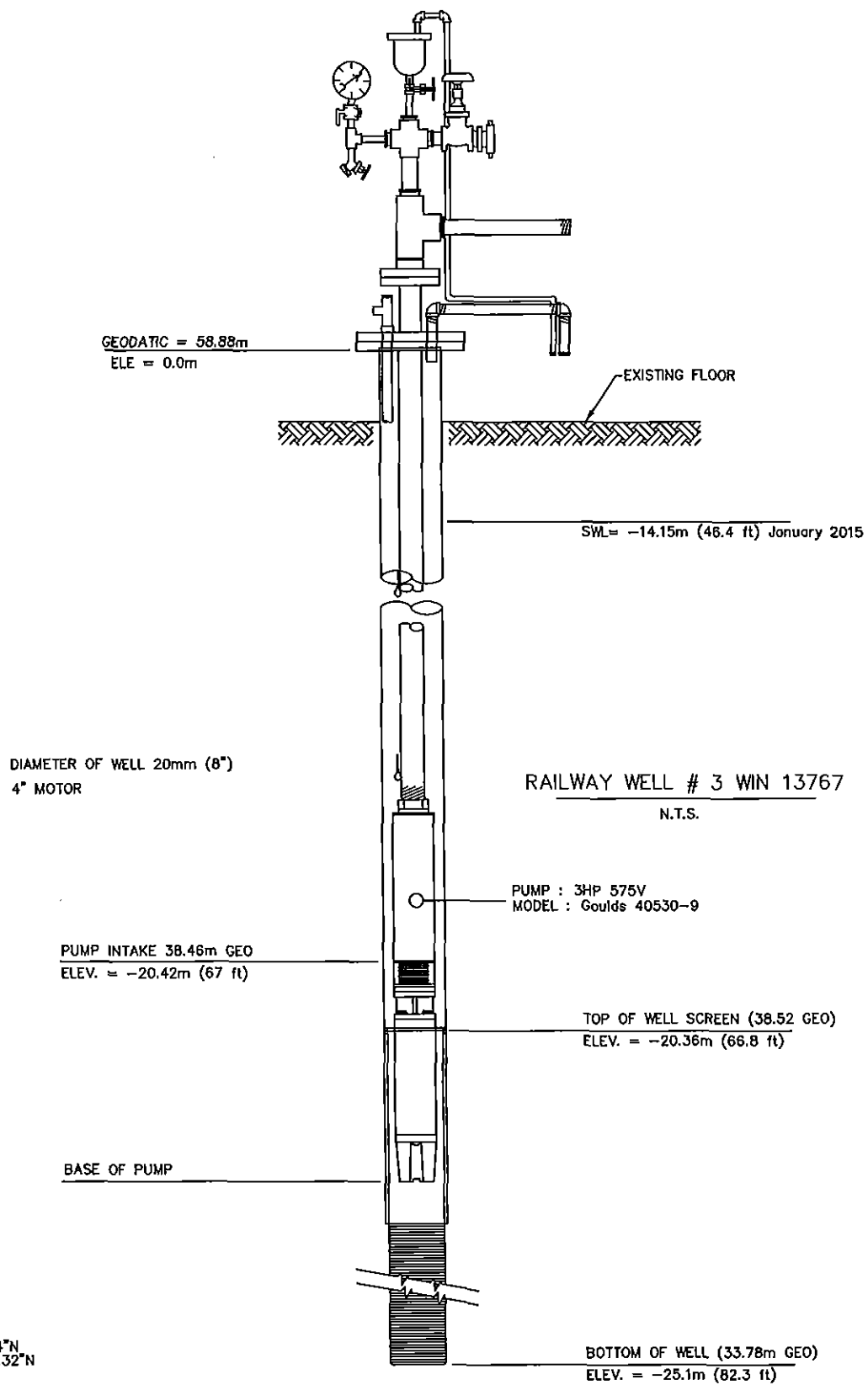
FIGURE 4

CITY OF PARKSVILLE RAILWAY STATION WELL 3-1994
CONSTRUCTION DETAILS



Notes:

1. The sketch is not to scale.
2. The well screen is 200 mm (8") nominal diameter Johnson stainless steel, of 168 mm (6.6") i.d.
3. All measurements are below the top of the casing unless otherwise indicated.



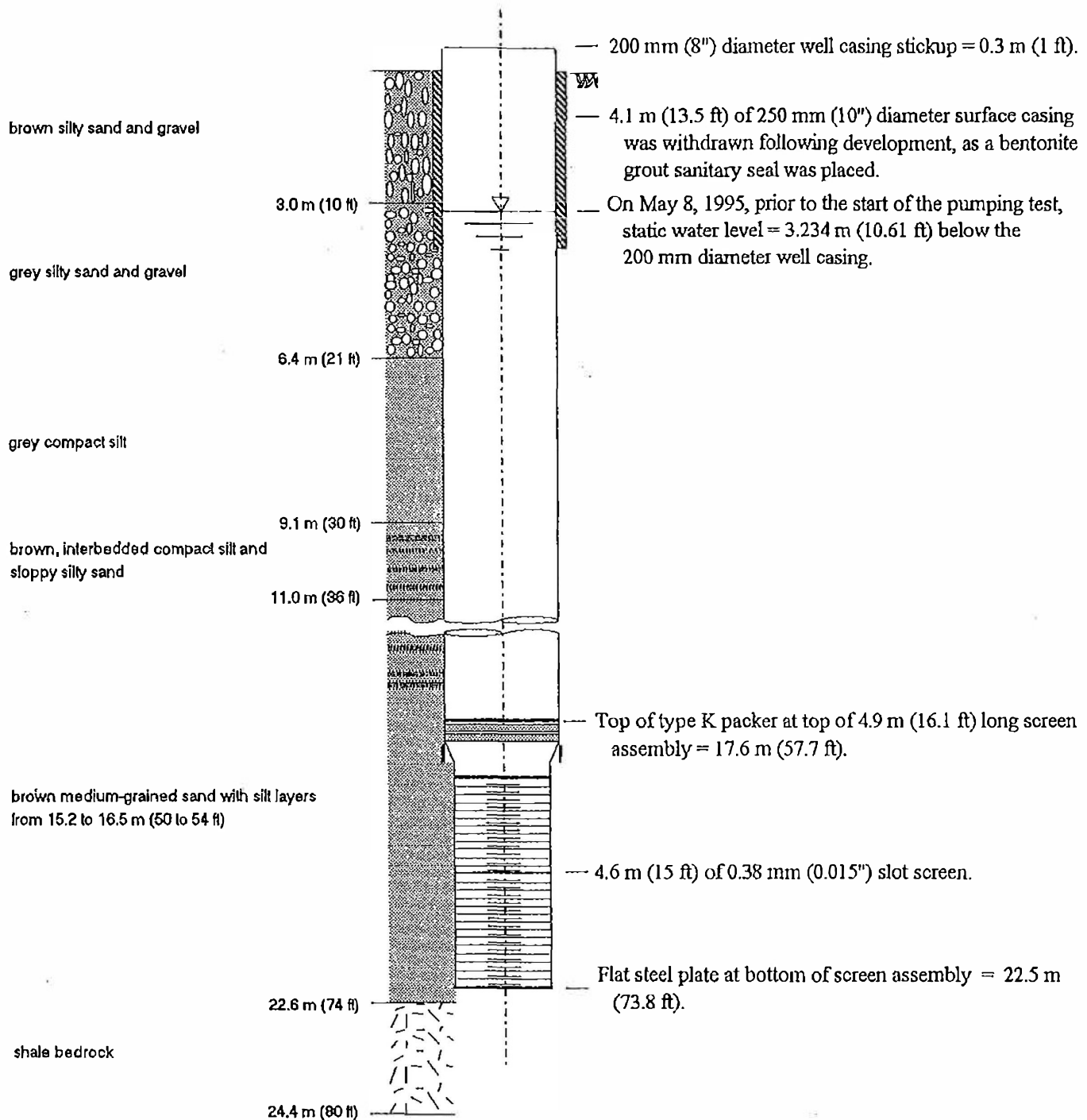
Latitude: 49°18'27.94"N
Longitude: 124°19'13.32"N

MINISTRY WELL TAG# 107046

CITY OF PARKSVILLE	ENGINEERING STANDARD		DATE: March, 2015
	RAILWAY WELL # 3		APP. BY: BBS
			DRAWING No. REV.
			RW3 3

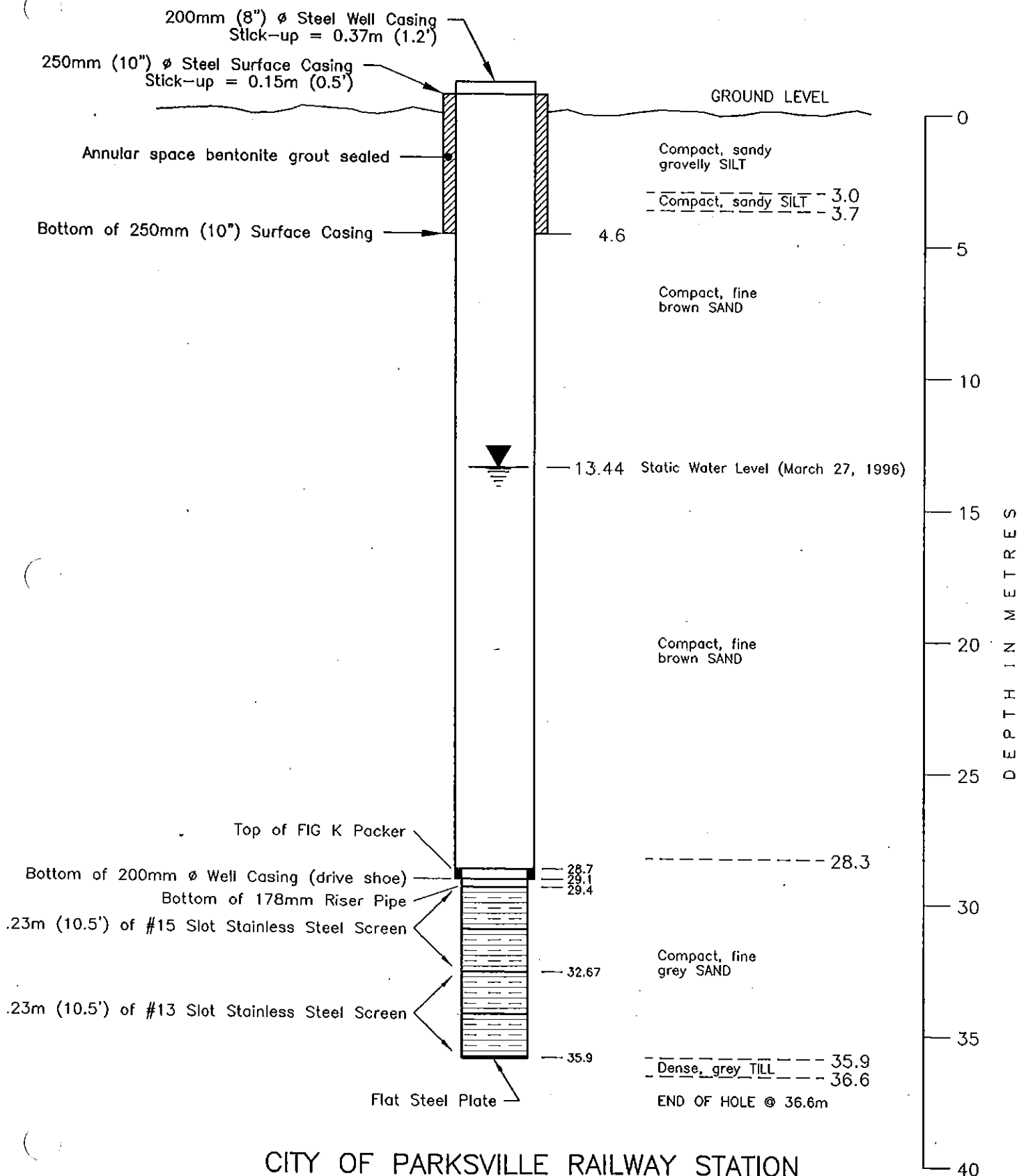
FIGURE 3

CITY OF PARKSVILLE RAILWAY STATION WELL 4-1995
CONSTRUCTION DETAILS



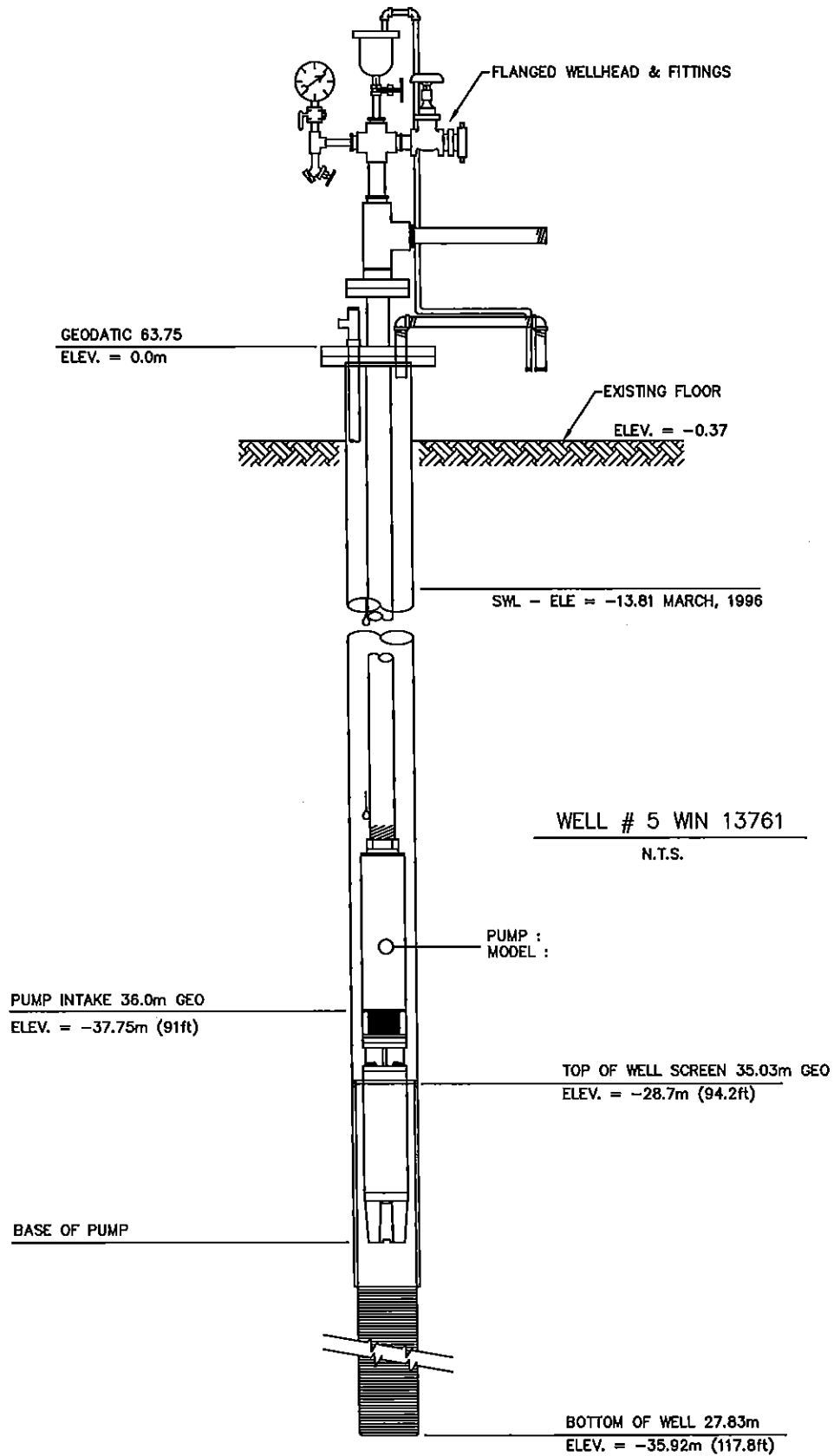
Notes:

1. The sketch is not to scale.
2. The well screen is 200 mm (8") nominal diameter Johnson stainless steel, of 168 mm (6.6") i.d.
3. All measurements are below the top of the 200 mm (8") diameter casing unless otherwise indicated.



CITY OF PARKSVILLE RAILWAY STATION
WELL NO. 5 (As Built)

FIGURE 3



CITY OF
PARKSVILLE

ENGINEERING STANDARD

RAILWAY WELL # 5

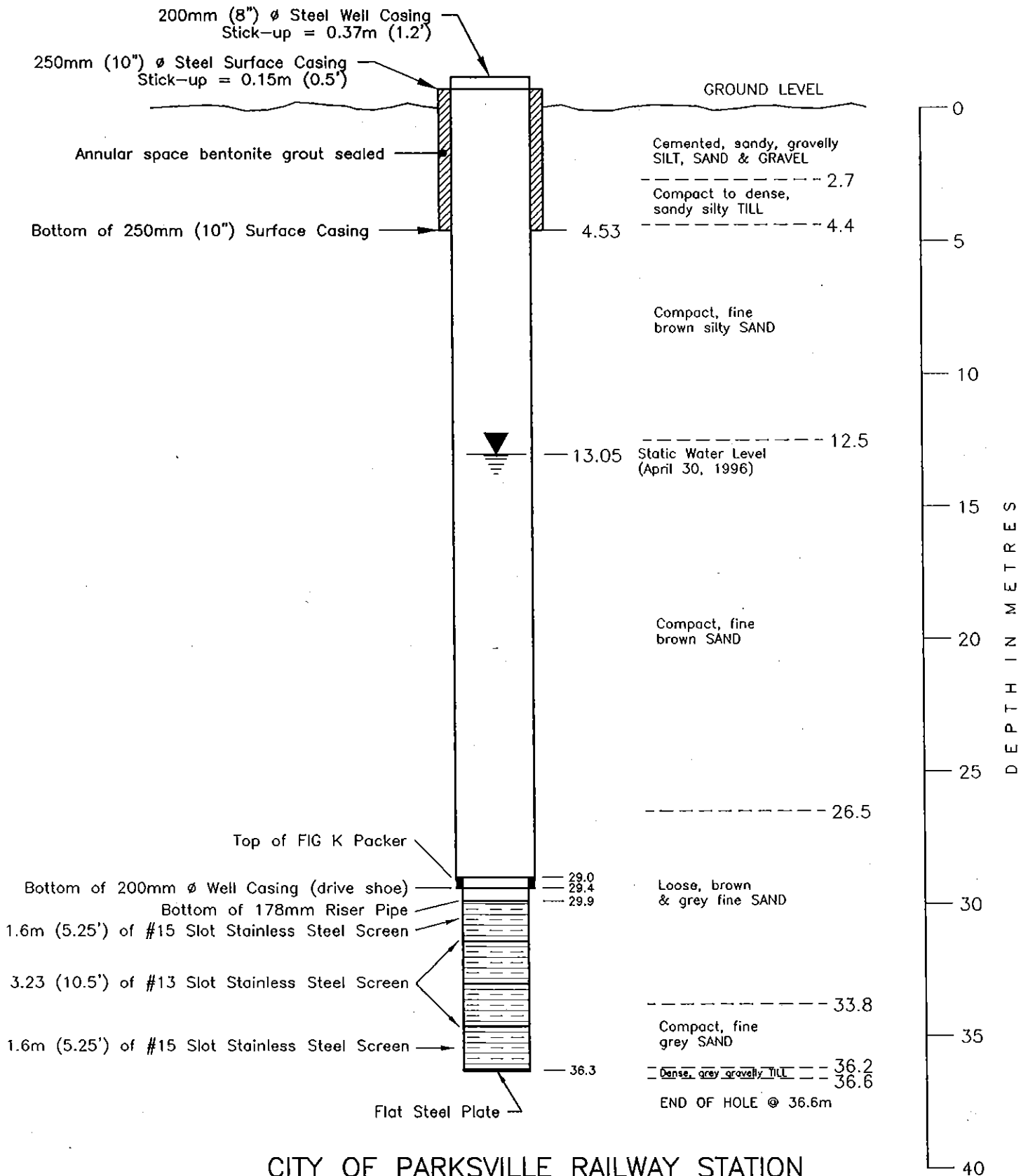
DATE: JULY, 2014

APP. BY:

DRAWING No.

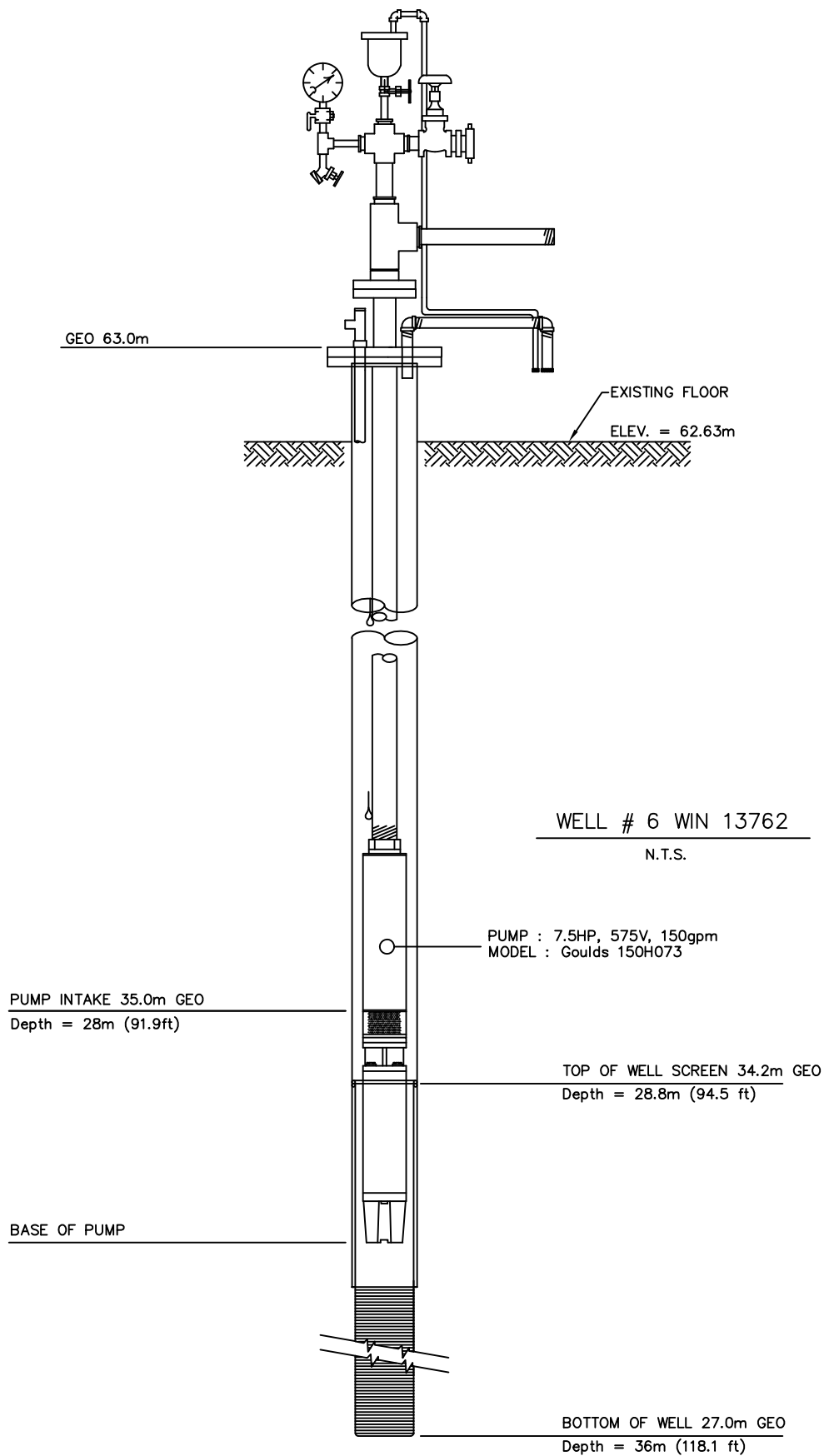
REV.

2



CITY OF PARKSVILLE RAILWAY STATION
WELL NO. 6 (As Built)

FIGURE 3



LAT: 49.31
LON: -124.32

Tag# 107096

CITY OF
PARKSVILLE

ENGINEERING STANDARD

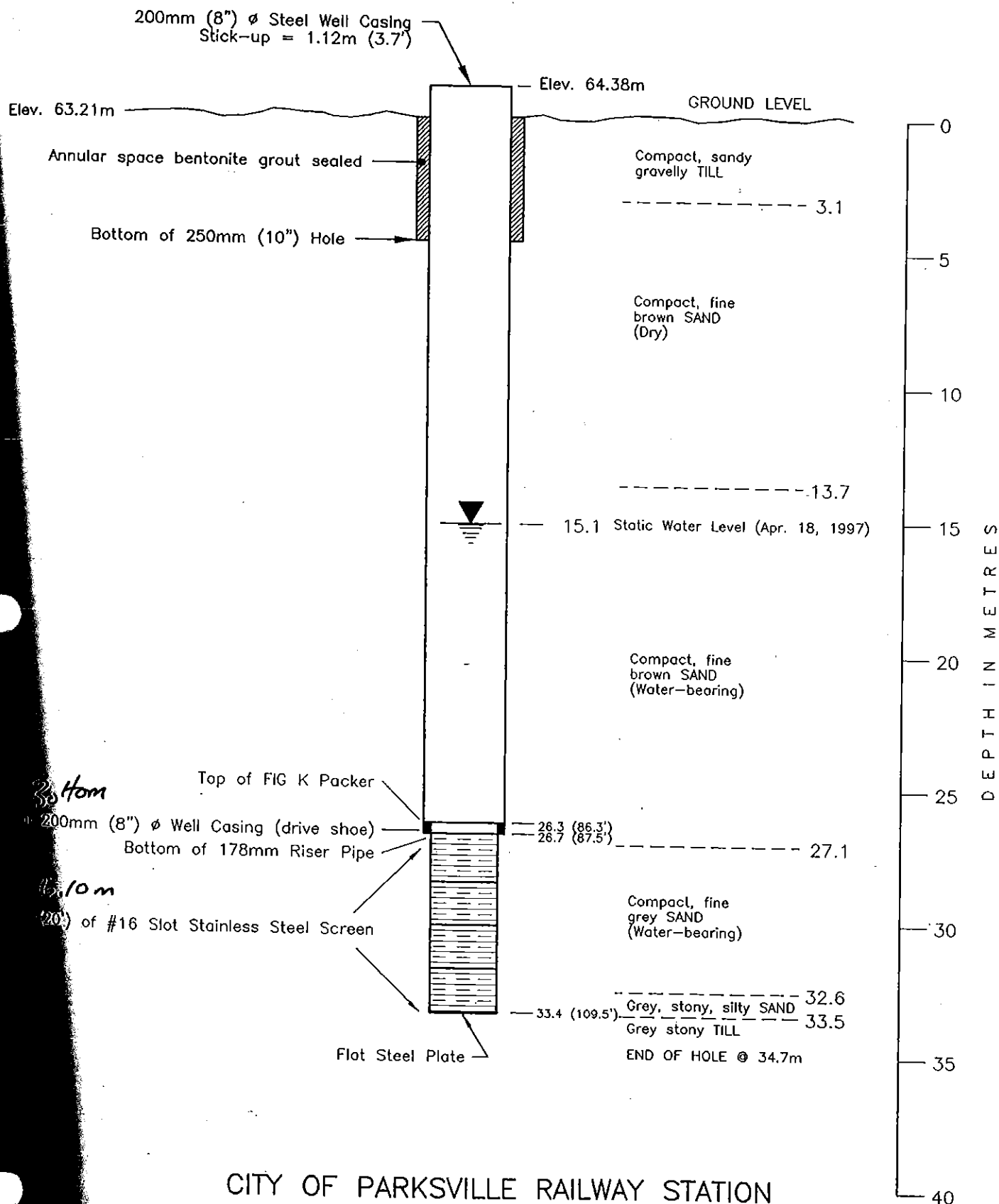
RAILWAY WELL # 6

DATE: JULY, 2016

APP. BY: BBS

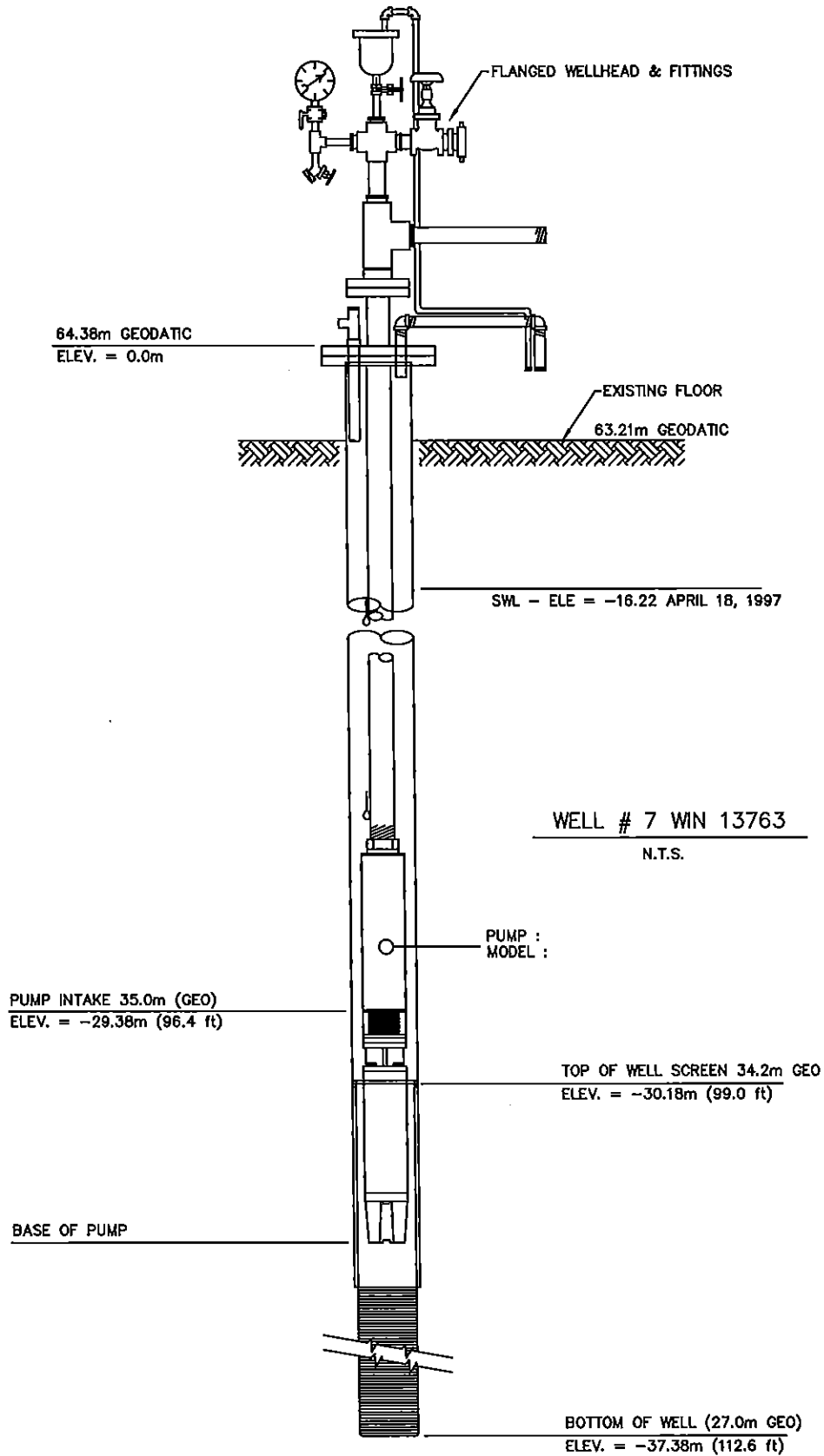
DRAWING No.
RW6

REV.
3



CITY OF PARKSVILLE RAILWAY STATION
 WELL NO. 7 (AS-BUILT)

FIGURE 3



CITY OF
PARKEVILLE

ENGINEERING STANDARD

RAILWAY WELL # 7

DATE: JULY, 2014

APP. BY:

DRAWING No.

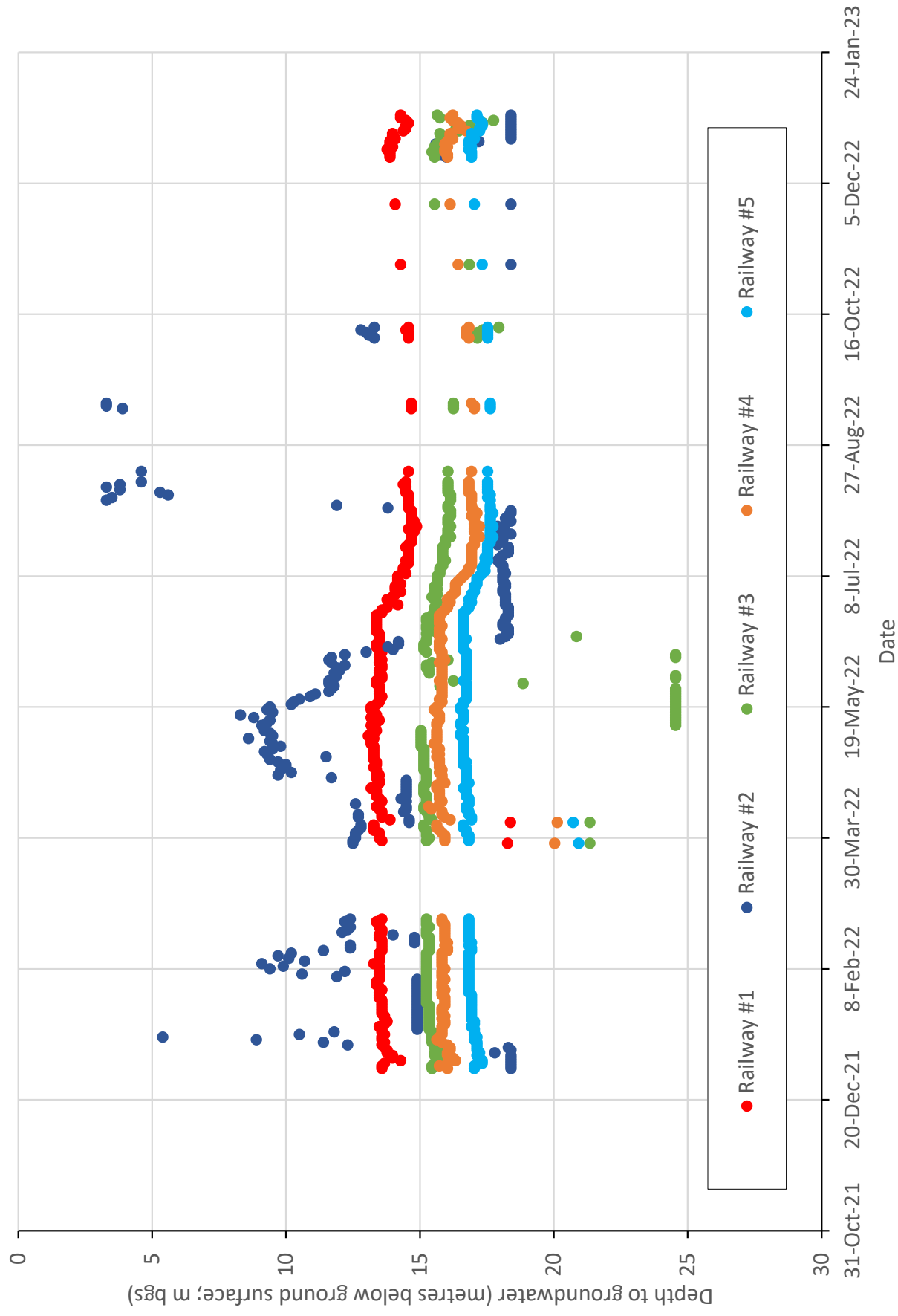
REV.

2

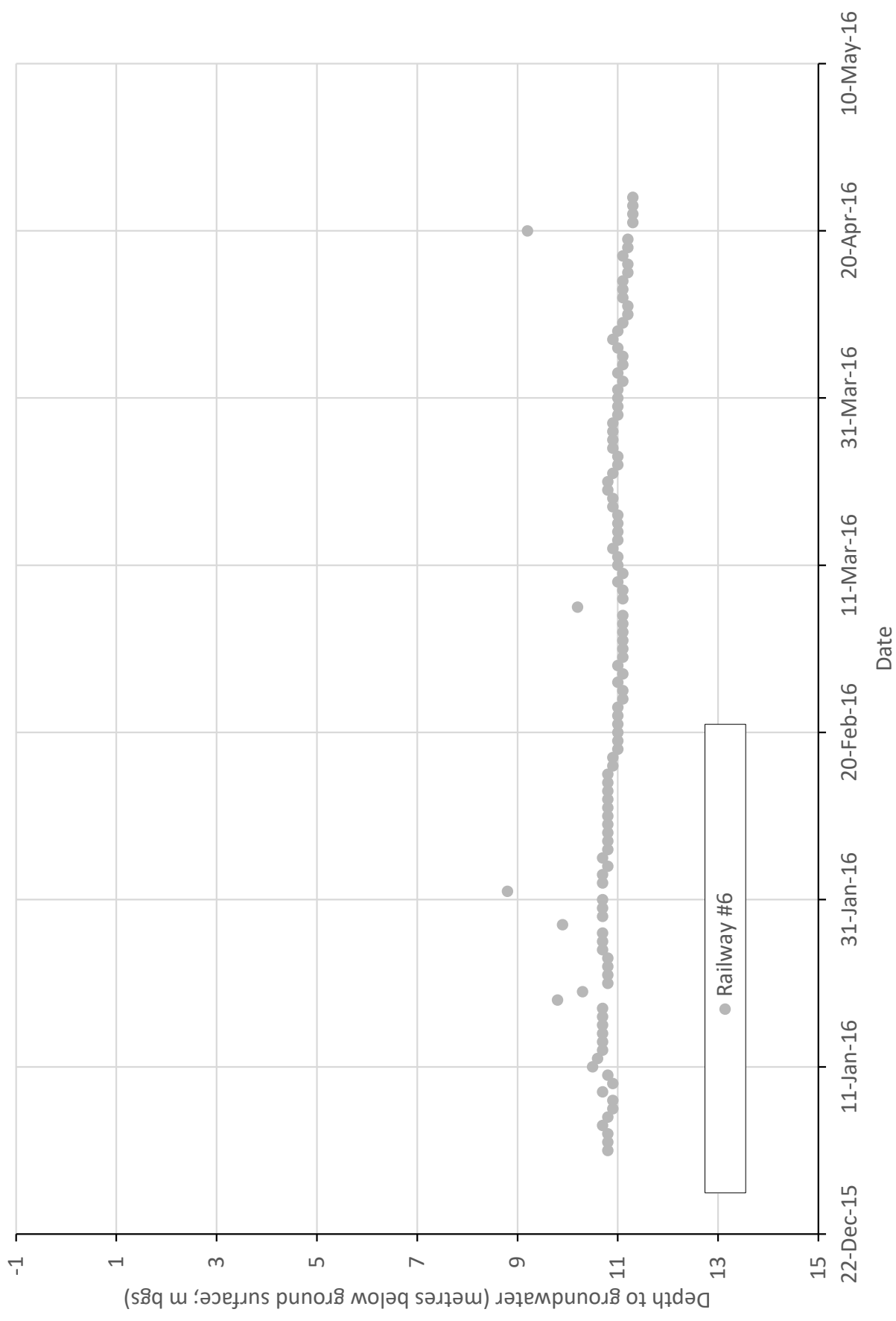
APPENDIX F

Depths to Groundwater in Railway Wells

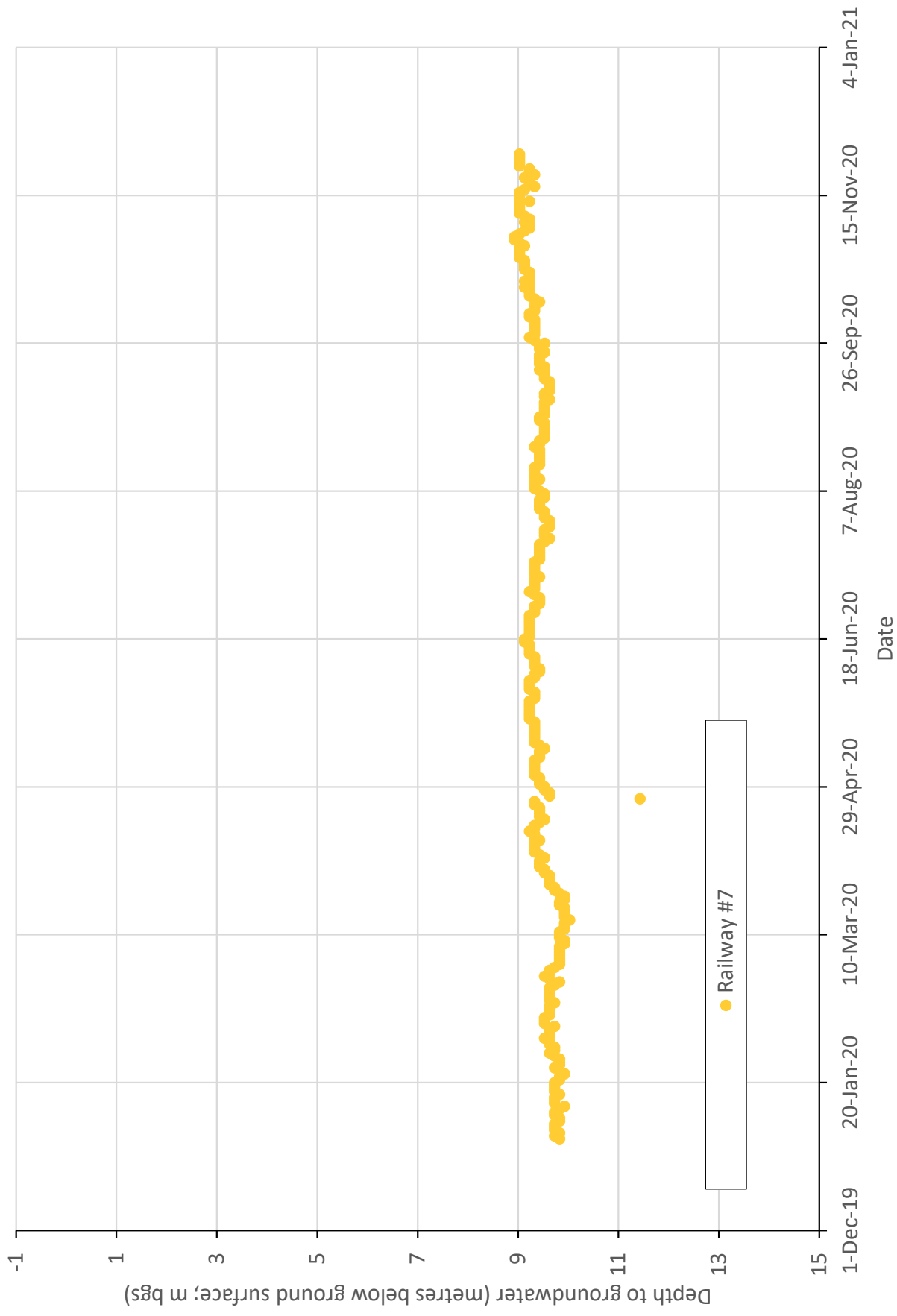
Minimum Daily Depth to Groundwater Level Reported for Railway #1, #2, #3, #4 and #5 in 2022



Minimum Daily Depth to Groundwater Level Reported for Railway #6 in 2016



Minimum Daily Depth to Groundwater Level Reported for Railway #7 in 2020



APPENDIX G

Summary of Microbiological Water Quality Data for the Railway Wells

Table G-1: Summary of Microbiological Water Quality Results,
Railway Well Field, Parksville, BC

Railway Well No.	Sampling Date	Water Quality Parameter ^a			
		Total Coliforms MPN/100ml	E.Coli MPN/100ml	Turbidity NTU	Manganese mg/L
4	06/Sep/2022	<1.0	<1.0	<0.1	0.018
5	06/Sep/2022	<1.0	<1.0	<0.1	0.005
1	27/Jul/2021	<1.0	<1.0	0.11	0.005
3	11/Feb/2020	<1.0	<1.0	0.14	0.021
7	11/Feb/2020	<1.0	<1.0	<0.1	0.007
6	01/Oct/2019	<1.0	<1.0	0.34	0.026
2	20/Aug/2018	<1.0	<1.0	0.25	0.0466
5	20/Aug/2018	<1.0	<1.0	0.2	0.0149
1	16/Oct/2017	<1.0	<1.0	0.25	0.00892
8	16/Oct/2017	<1.0	<1.0	<0.1	0.0202
5	31/Oct/2016	<1.0	<1.0	0.16	0.0066
3	31/Oct/2016	<1.0	<1.0	0.12	0.16
4	03/Nov/2014	<1.0	<1.0	0.14	0.0108
7	03/Nov/2014	<1.0	<1.0	0.18	0.0058
1	25/Nov/2013	<1.0	<1.0		0.0069
3	25/Nov/2013	<1.0	<1.0		0.023
3	21/Nov/2011			0.32	0.013
5	21/Nov/2011			<0.1	0.007
2	20/Oct/2010	<1.0	<1.0	0.4	0.017
6	20/Oct/2010	<1.0	<1.0	0.4	0.006

Notes:



wsp.com