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Attention: **Development Assessment**

Job No: 5941

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DATE OF ISSUE	Day	08	28	13	02							
	Month	05	05	07	09							
	Year	20	20	20	20							

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A	A	A	A						
P	- Preliminary			C	- Construction			T	-Tender
A	- Approval			I	- Information			O	- Other

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Drp/Doc No.	Title	Revision Issued												
5941 ENG EXTSEW 001	DRAWING INDEX AND LOCALITY PLAN	A	A	B	C									
5941 ENG EXTSEW 002	GENERAL NOTES	A	A	B	B									
5941 ENG EXTSEW 003	LEGEND	A	A	B	B									
5941 ENG EXTSEW 005	KEY PLAN LAYOUT	A	A	B	C									
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5941 ENG EXTSEW 601	SEWER LAYOUT PLAN SHEET - 2 OF 6	A	A	B	B									
5941 ENG EXTSEW 602	SEWER LAYOUT PLAN SHEET - 3 OF 6	A	A	B	C									
5941 ENG EXTSEW 603	SEWER LAYOUT PLAN SHEET - 4 OF 6	A	A	B	B									
5941 ENG EXTSEW 604	SEWER LAYOUT PLAN SHEET - 5 OF 6	A	A	B	B									
5941 ENG EXTSEW 605	SEWER LAYOUT PLAN SHEET - 6 OF 6	-	-	A	A									
5941 ENG EXTSEW 610	SEWER LONGITUDINAL SECTIONS - SHEET 1 OF 4	A	A	B	B									
5941 ENG EXTSEW 611	SEWER LONGITUDINAL SECTIONS - SHEET 2 OF 4	A	A	B	C									
5941 ENG EXTSEW 612	SEWER LONGITUDINAL SECTIONS - SHEET 3 OF 4	A	A	B	B									
5941 ENG EXTSEW 613	SEWER LONGITUDINAL SECTIONS - SHEET 4 OF 4	A	A	B	C									
5941 ENG EXTSEW 650	SEWER STRUCTURE DETAILS - SHEET 1 OF 2	A	A	B	C									
5941 ENG EXTSEW 651	SEWER STRUCTURE DETAILS - SHEET 2 OF 2	A	A	B	C									

I hereby acknowledge receipt of the documents listed above.

Name & Company: _____ Signed: _____ Dated: / /

Project Manager: mitchell@gassman.com.au

Sent by: mittchell@gassman.com.au

OPERATIONAL WORKS APPLICATION FOR TRUNK INFRASTRUCTURE

CoGC STAPYLTON XGMA21 GRAVITY SEWER "VANTAGE YATALA"

DRAWING INDEX		
DRAWING No.	REV. No.	DRAWING TITLE
594I ENG EXTSEW 001	C	DRAWING INDEX AND LOCALITY PLAN
594I ENG EXTSEW 002	B	GENERAL NOTES
594I ENG EXTSEW 003	B	LEGEND
594I ENG EXTSEW 005	C	KEY PLAN LAYOUT
594I ENG EXTSEW 010	B	CONTOUR AND DETAIL PLAN – SHEET 1 OF 5
594I ENG EXTSEW 011	B	CONTOUR AND DETAIL PLAN – SHEET 2 OF 5
594I ENG EXTSEW 012	C	CONTOUR AND DETAIL PLAN – SHEET 3 OF 5
594I ENG EXTSEW 013	B	CONTOUR AND DETAIL PLAN – SHEET 4 OF 5
594I ENG EXTSEW 014	B	CONTOUR AND DETAIL PLAN – SHEET 5 OF 5
594I ENG EXTSEW 020	B	DEMOLITION AND PROTECTION PLAN
594I ENG EXTSEW 600	B	SEWER LAYOUT PLAN – SHEET 1 OF 6
594I ENG EXTSEW 601	B	SEWER LAYOUT PLAN – SHEET 2 OF 6
594I ENG EXTSEW 602	C	SEWER LAYOUT PLAN – SHEET 3 OF 6
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594I ENG EXTSEW 604	B	SEWER LAYOUT PLAN – SHEET 5 OF 6
594I ENG EXTSEW 605	A	SEWER LAYOUT PLAN – SHEET 6 OF 6
594I ENG EXTSEW 610	B	SEWER LONGITUDINAL SECTIONS – SHEET 1 OF 4
594I ENG EXTSEW 611	C	SEWER LONGITUDINAL SECTIONS – SHEET 2 OF 4
594I ENG EXTSEW 612	B	SEWER LONGITUDINAL SECTIONS – SHEET 3 OF 4
594I ENG EXTSEW 613	C	SEWER LONGITUDINAL SECTIONS – SHEET 4 OF 4
594I ENG EXTSEW 650	C	SEWER STRUCTURE DETAILS – SHEET 1 OF 2
594I ENG EXTSEW 651	C	SEWER STRUCTURE DETAILS – SHEET 2 OF 2

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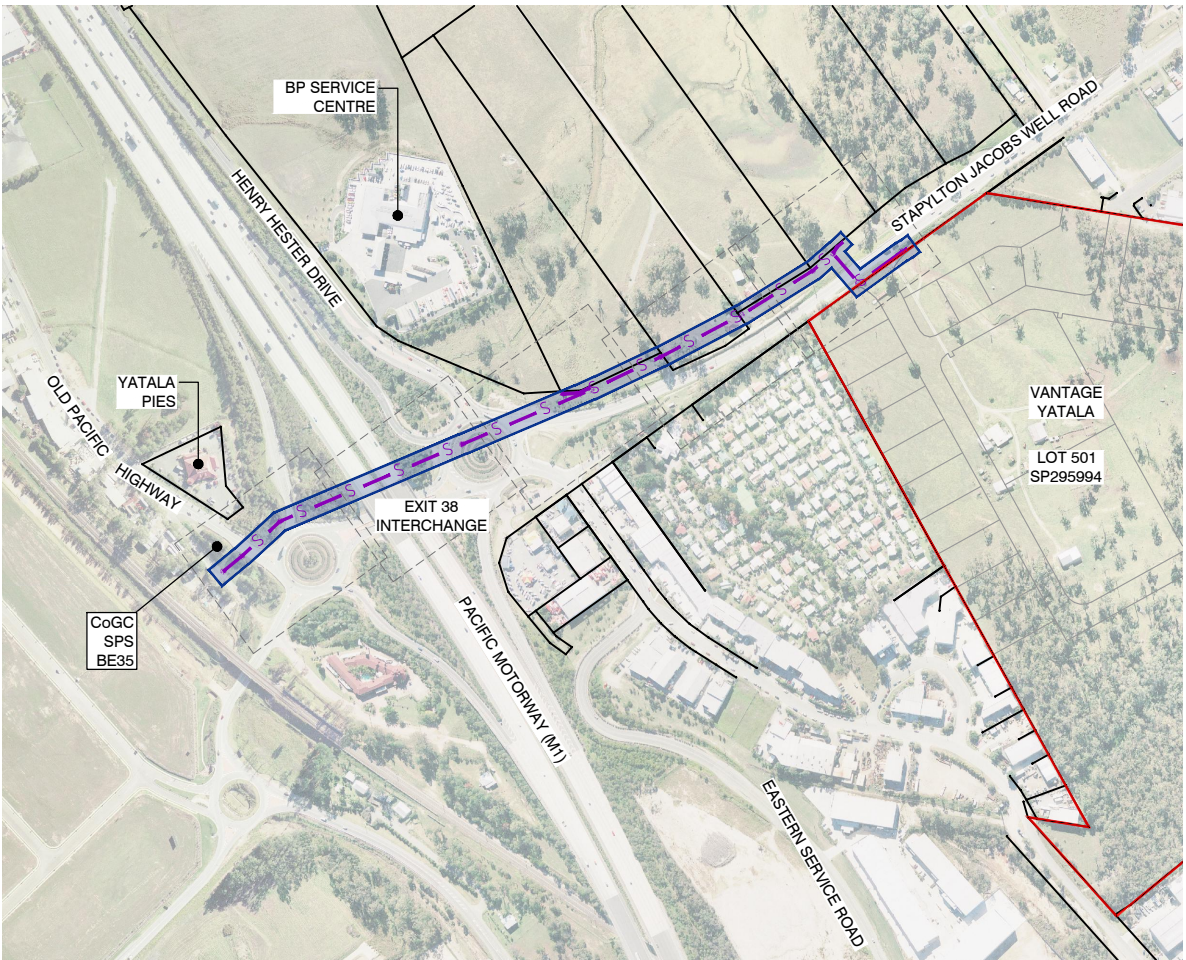
STAPYLTON JACOBS WELL ROAD
STAPYLTON QLD 4207

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02/09/2020

DWG No. 594I ENG EXTSEW 001 – REV C

SEPTEMBER 2020



LOCALITY PLAN
SCALE 1:4000 (A1)

Client:



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Project: VANTAGE YATALA
EXTERNAL TRUNK GRAVITY SEWER
(City of Gold Coast: Stapylton XGMA21)

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DRAWING TITLE

LEGEND

B	13-07-20	INFORMATION REQUEST RESPONSE	BA	MG
A	08-05-20	ORIGINAL ISSUE	IG	MG
Issue	Date	Description	DRN	CHK

Scale at A1: NTS

Designed: IG

Drafted: IG

Approved: MG

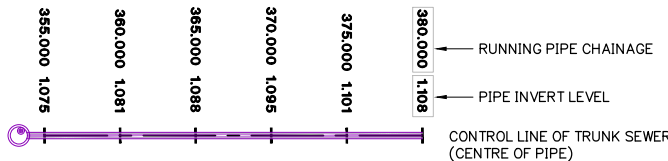
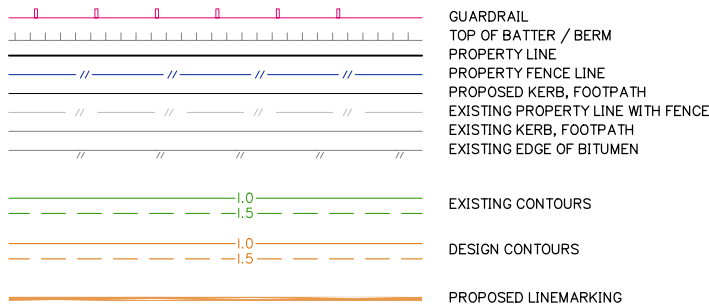
RPEQ: 16939

Signed:

Date: 08-05-20

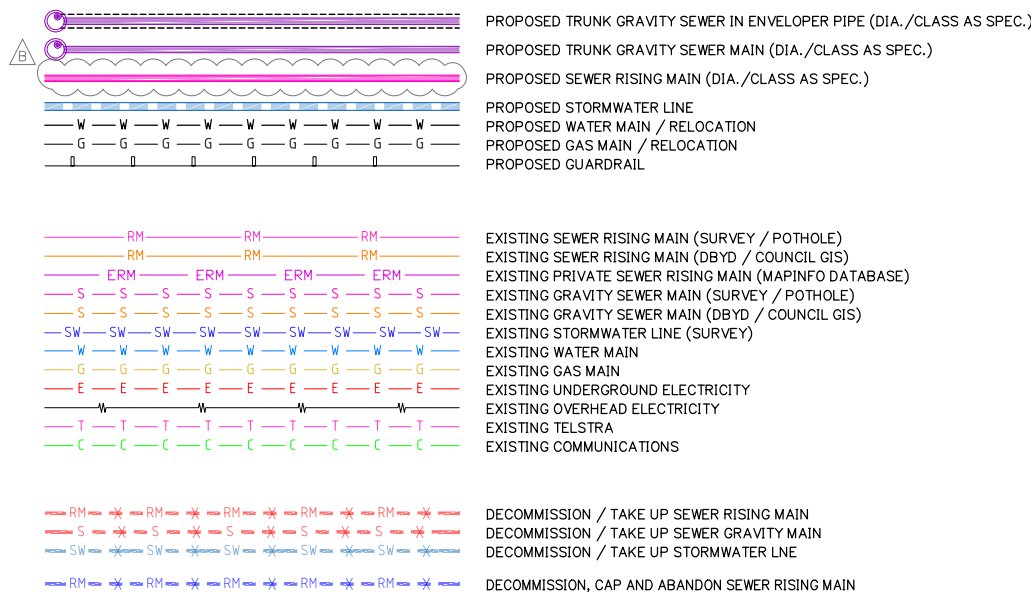
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FEATURE LEGEND

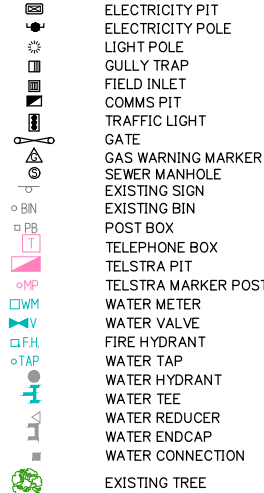


PIPE CHAINAGE KEY PLAN FOR DWG 600 SERIES PLANS

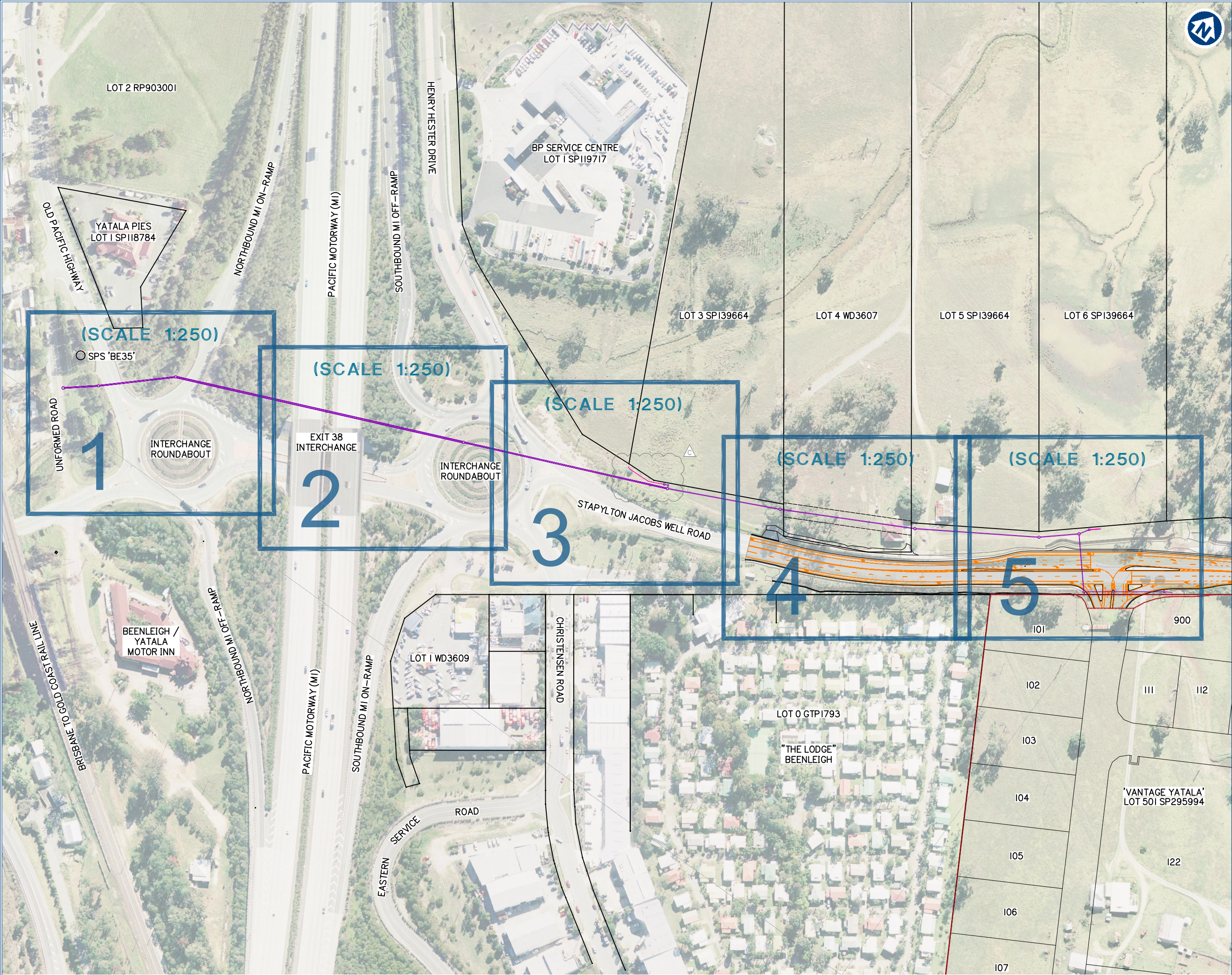
SERVICES LEGEND



SURVEY SYMBOLS LEGEND



LEGEND



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KEY PLAN LAYOUT

C	02-09-20	FURTHER INFORMATION REQUEST RESPONSE	BA	MG	
B	13-07-20	INFORMATION REQUEST RESPONSE	BA	MG	
A	08-05-20	ORIGINAL ISSUE	IG	MG	
Issue	Date	Description	DRN	CHK	

Scale 1:1250 - Lengths are in Metres.
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Scale at A1: 1:1250

Designed: IG

Drafted: IG

Approved: MG

RPEQ: 16939

Signed:

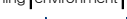
Date: 02-09-20

Drawing No:
5941 ENG EXTSEW 005

Rev. No:
C

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CONTOUR AND DETAIL
PLAN - SHEET 1 OF 5

B	13-07-20	INFORMATION REQUEST RESPONSE		BA	MO
A	08-05-20	ORIGINAL ISSUE		B	MO
Sign up	Date	(Signature)		PEN	CHE

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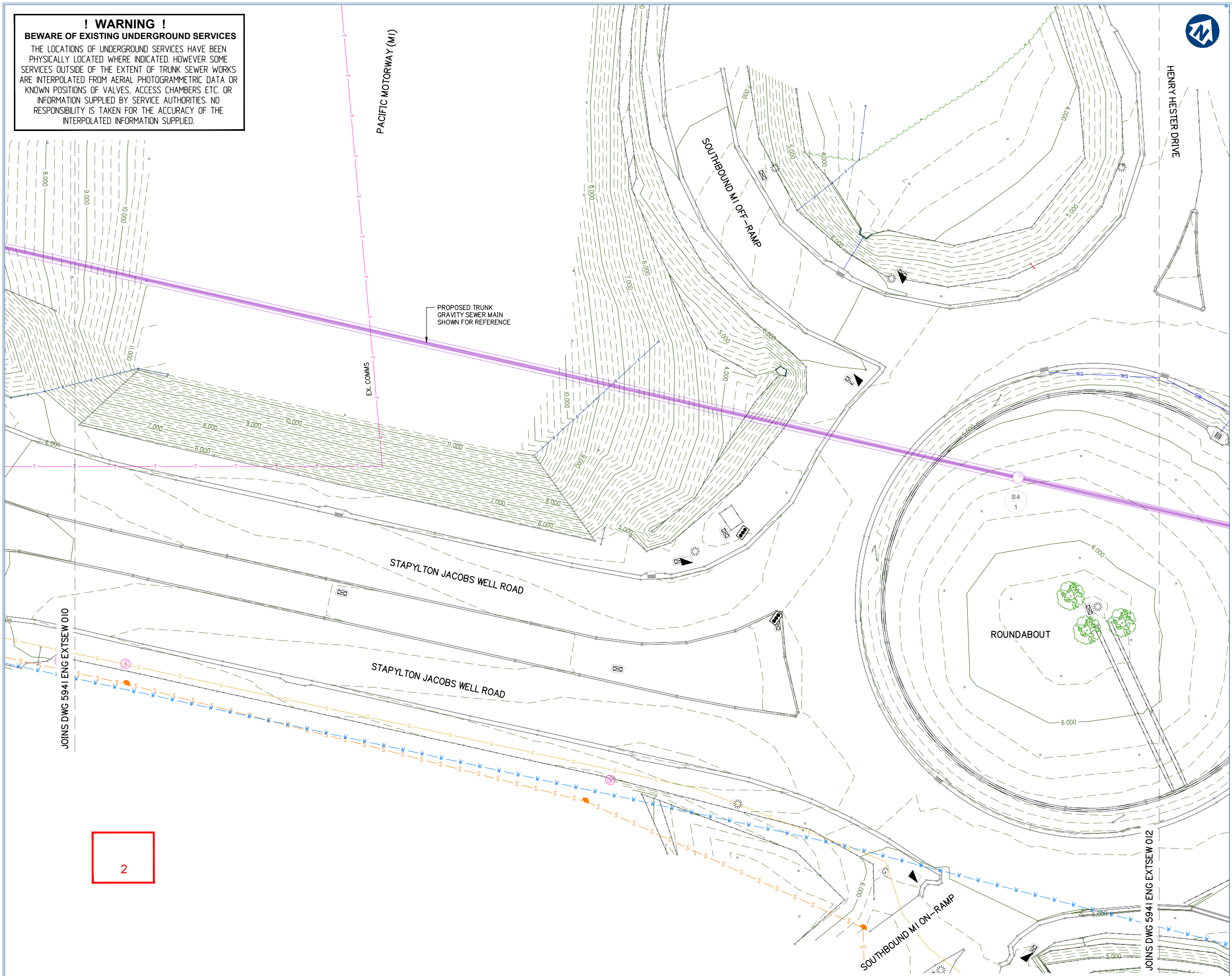
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Date:	08-05-20

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5941 ENG EXTSEW 010	B

CONTOUR AND DETAIL PLAN – SHEET 1 OF 5

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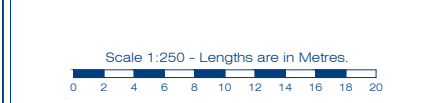
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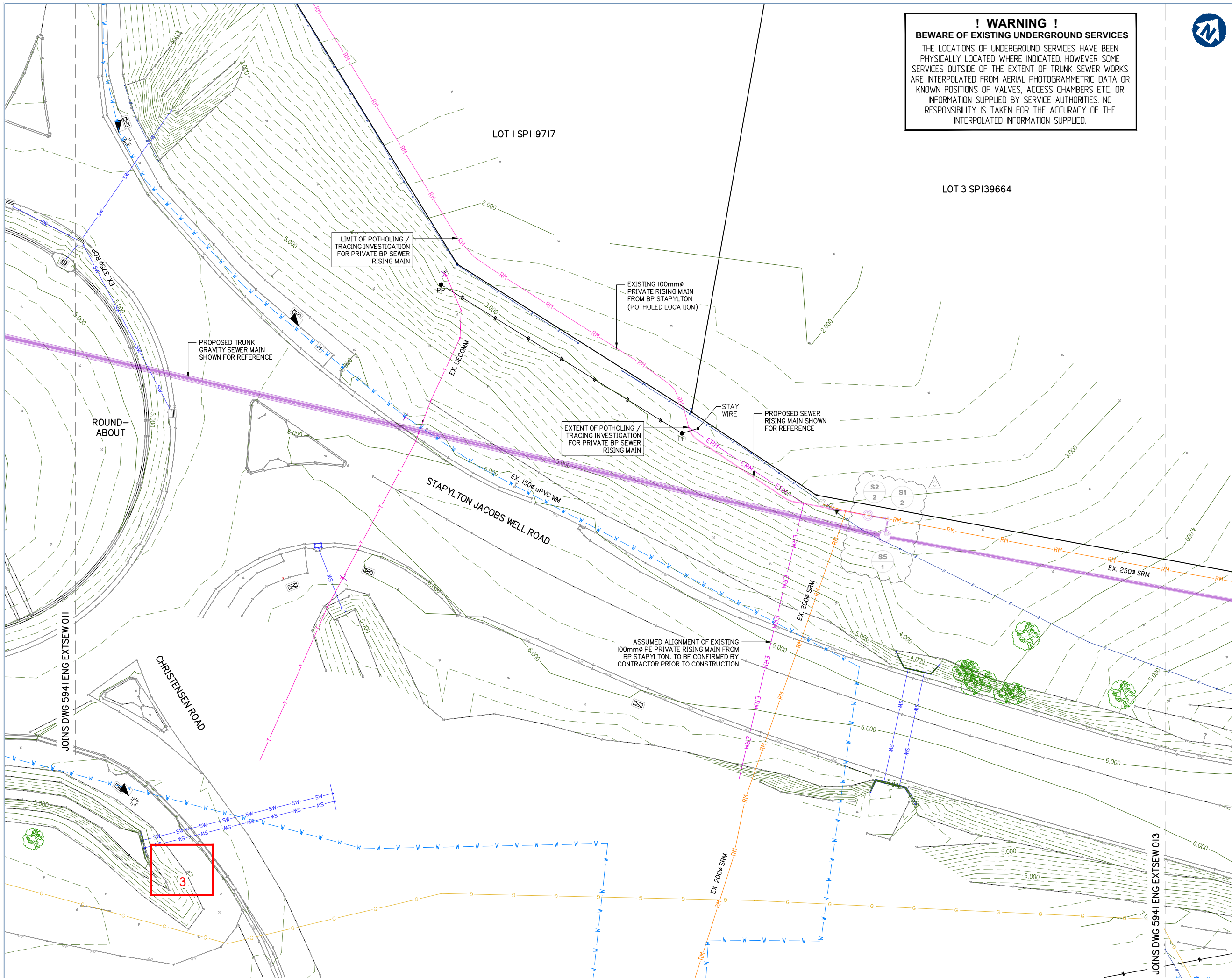
DRAWING TITLE
CONTOUR AND DETAIL PLAN - SHEET 2 OF 5

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A	08-05-20	ORIGINAL ISSUE	IG	MG	
Issue	Date	Description	DRN	CHK	



Scale at A1:	1:250
Designed:	IG
Drafted:	IG
Approved:	MG
RPEQ:	16939
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Date:	08-05-20

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CONTOUR AND DETAIL
PLAN - SHEET 3 OF 5

Rev	Date	Description	By	Check
C	02-09-20	FURTHER INFORMATION REQUEST RESPONSE	BA	MG
B	13-07-20	INFORMATION REQUEST RESPONSE	BA	MG
A	08-05-20	ORIGINAL ISSUE	IG	MG
Issue	Date	Description	DRN	CHK

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Date:	02-09-20

Drawing No: 5941 ENG EXTSEW 012 Rev. No: C

CONTOUR AND DETAIL PLAN – SHEET 3 OF 5

BEWARE OF EXISTING UNDERGROUND SERVICES

LOT 3 SPI39664

LOT 4 WD3607

LOT 5 SPI39664

LOT 0 GTP1793

STAPYLTON JACOBS WELL ROAD

PROPOSED TRUNK GRAVITY SEWER MAIN SHOWN FOR REFERENCE

PROPOSED EASEMENT SHOWN FOR REFERENCE

EX. 250Ø SRM

EX. 100Ø SRM

S6

S7

4

JOINS DWG 5941 ENG EXTSEW 012

JOINS DWG 5941 ENG EXTSEW 014



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CONTOUR AND DETAIL
PLAN - SHEET 4 OF 5

B	13-07-20	INFORMATION REQUEST RESPONSE						BA	MG
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Issue	Date	Description						DRN	CHK

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Date:	08-05-20

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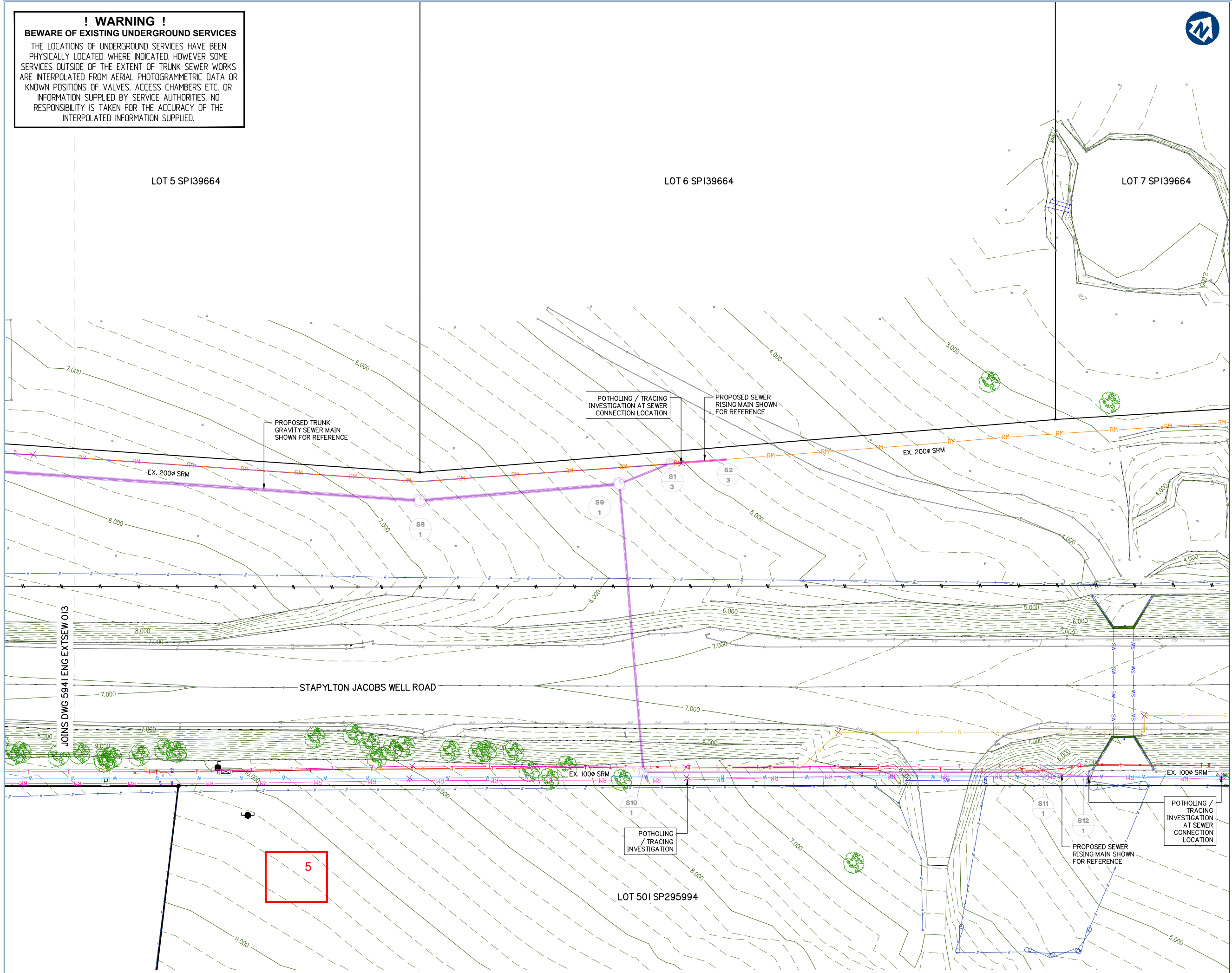
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CONTOUR AND DETAIL
PLAN - SHEET 5 OF 5

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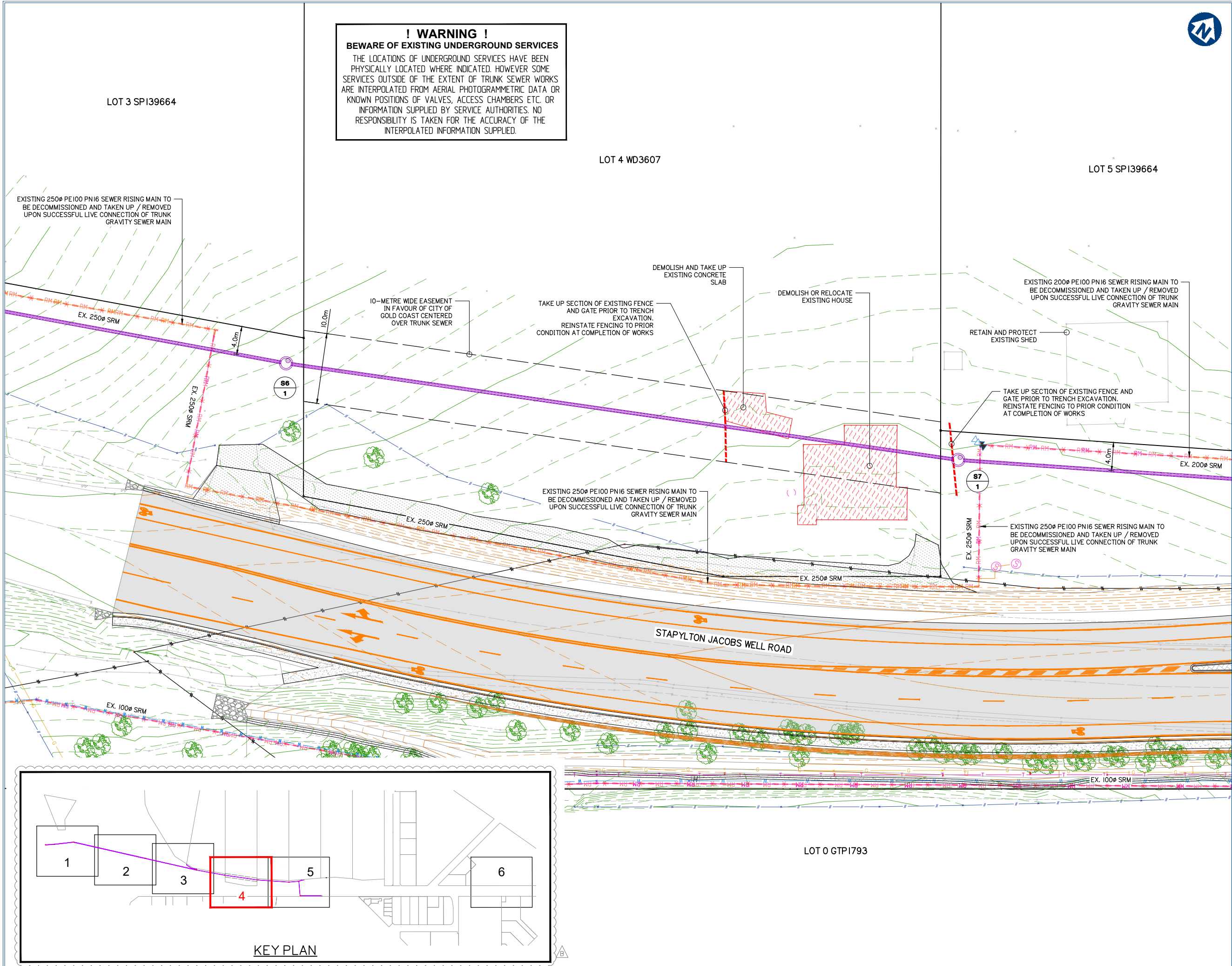
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Rev. No: B



CONTOUR AND DETAIL PLAN – SHEET 5 OF 5



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DEMOLITION AND
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Rev.	Date	Description	By	Check
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Drawing No: 5941 ENG EXTSEW 020
Rev. No: B

INSTALL ALL SEWER MAINTENANCE STRUCTURE CLASS D TRAFFICABLE LIDS WITH COMPOSITE LIDS (NON-CORROSIVE) AND FRAMES IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ-SEW-1308-I, 9, 10, 11.

INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

YATALA PIES
LOT I SPII8784

PROPERTY
BOUNDARY
(TYP.)

EXISTING 225Ø DI CL PN35 SEWER GRAVITY
MAIN TO BE DECOMMISSIONED AND TAKEN UP
/ REMOVED UPON SUCCESSFUL LIVE
CONNECTION OF TRUNK GRAVITY SEWER MAIN

STORMWATER DRAINAGE LINE (375Ø RCP) TO BE TEMPORARILY
DIVERTED ON SITE BY CONTRACTOR WHILST DRILL PIT WORKS
OCCUR. REINSTATE UPON COMPLETION OF SEWER WORKS

KEY PLAN



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Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: VANTAGE YATALA
EXTERNAL TRUNK GRAVITY SEWER
(City of Gold Coast: Stapylton XGMA21)

Site Address:
STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot:	-
Plan:	-
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RI :	-

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DRAWING TITLE

SEWER LAYOUT PLAN
SHEET 1 OF 6

TRUNK SEWER PIPE INVERTS	
END OF PIPE CHAINAGE	INVERT LEVEL
0.900	0.529
24.317	0.560
25.817	0.590
79.404	0.661
80.924	0.691

TRUNK SEWER - SETOUT TABLE			
CHAINAGE	EASTING	NORTHING	INVERT LEVEL
0.000	1504.477	6707.051	0.449
5.000	1508.349	6710.214	0.534
10.000	1512.222	6713.377	0.541
15.000	1516.094	6716.540	0.547
20.000	1519.967	6719.703	0.554
25.000	1523.839	6722.866	0.573
25.057	1523.883	6722.901	—
30.000	1527.542	6726.225	0.595
35.000	1531.243	6729.588	0.602
40.000	1534.943	6732.950	0.609
45.000	1538.644	6736.312	0.615
50.000	1542.345	6739.674	0.622
55.000	1546.046	6743.037	0.629
60.000	1549.746	6746.399	0.635
65.000	1553.447	6749.761	0.642
70.000	1557.148	6753.123	0.649
75.000	1560.849	6756.485	0.655
80.000	1564.549	6759.848	0.673
80.164	1564.671	6759.958	—
85.000	1569.125	6761.841	0.697
90.000	1573.730	6763.789	0.703
95.000	1578.335	6765.736	0.710
100.000	1582.941	6767.683	0.717
105.000	1587.546	6769.630	0.723
110.000	1592.151	6771.578	0.730
115.000	1596.756	6773.525	0.737
120.000	1601.361	6775.472	0.743
125.000	1605.967	6777.420	0.750
130.000	1610.572	6779.367	0.757
135.000	1615.177	6781.314	0.763
140.000	1619.782	6783.261	0.770
145.000	1624.388	6785.209	0.777

NOTE:
I. CONTRACTOR TO CONFIRM LOCATIONS AND LEVELS OF EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY SUPERINTENDENT IF DIFFERENT FROM THOSE SHOWN.

LIVE WORKS SCHEDULE

[illegible]

Scale 1:250 - Lengths are in Metres.



Scale at A1: 1:250

Designed:	IG
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Drafted:	IG
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Approved:	MG
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RPEQ:	16939
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Signed:	
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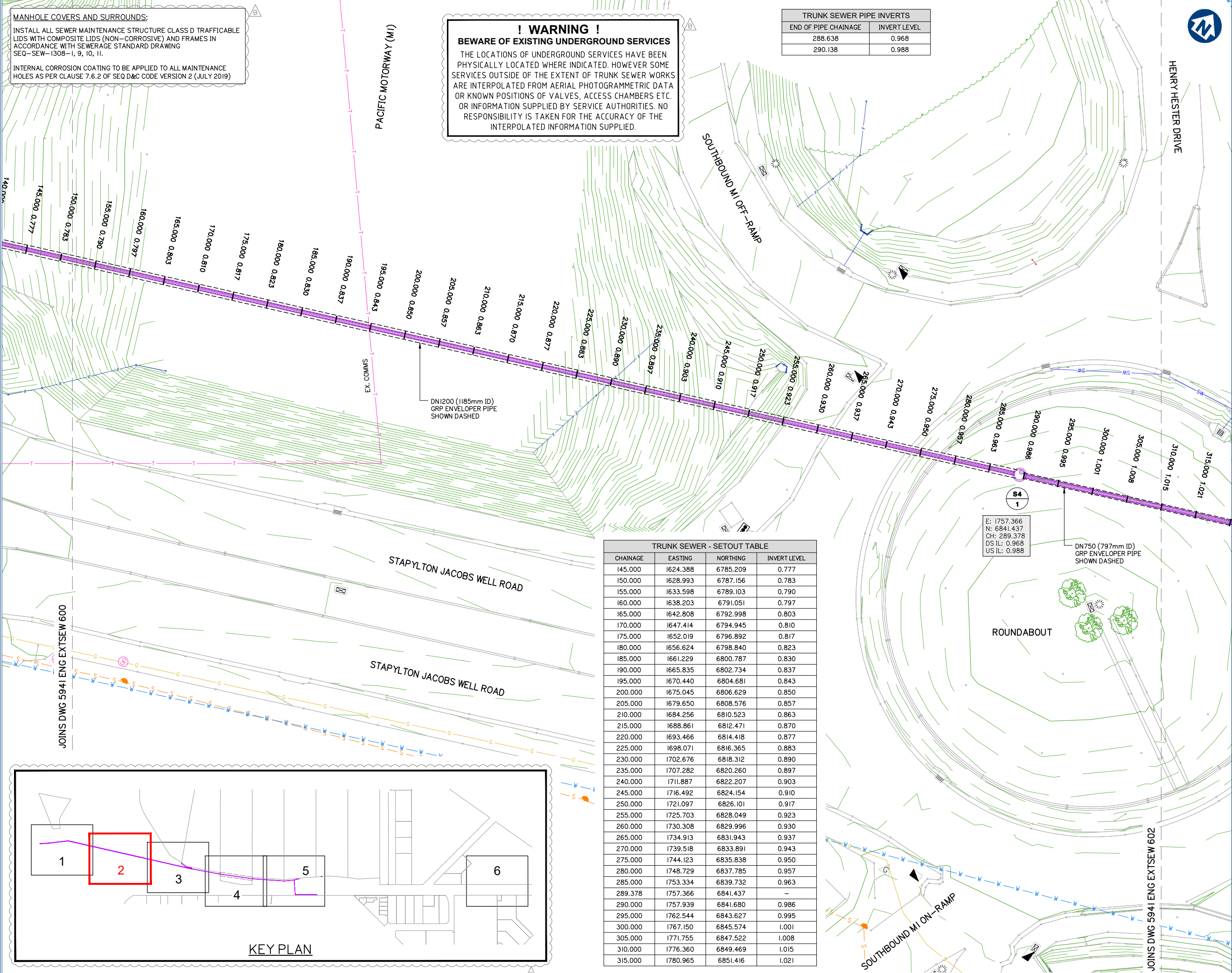
Date:	08-05-20
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Drawing No:	Rev. No:
5941 ENG EXTSEW 600	B

! WARNING !
BEWARE OF EXISTING UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN PHYSICALLY LOCATED WHERE INDICATED. HOWEVER SOME SERVICES OUTSIDE OF THE EXTENT OF TRUNK SEWER WORKS ARE INTERPOLATED FROM AERIAL PHOTOGRAMMETRIC DATA OR KNOWN POSITIONS OF VALVES, ACCESS CHAMBERS ETC. OR INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE INTERPOLATED INFORMATION SUPPLIED.

SEWER LAYOUT PLAN SHEET 1 OF 6



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Client:

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FRASERS PROPERTY (AUSTRALIA) PTY. LTD.

Project: VANTAGE YATALA
EXTERNAL TRUNK GRAVITY SEWER
(City of Gold Coast: Stapylton XGMA21)

Site Address:
STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

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Plan: -
Local Authority: CITY OF GOLD COAST COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
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DRAWING TITLE
SEWER LAYOUT PLAN
SHEET 2 OF 6

Rev.	Date	Description	By	Check
A	08-05-20	ORIGINAL ISSUE	IG	MG
B	08-05-20	INFORMATION REQUEST RESPONSE	BA	MG

Scale at A1: 1:250

Designed: IG

Drafted: IG

Approved: MG

RPEQ: 16939

Signed: 

Date: 08-05-20

Drawing No: 5941 ENG EXTSEW 601

Rev. No: B

MANHOLE COVERS AND SURROUNDS:

INSTALL ALL SEWER MAINTENANCE STRUCTURE CLASS D TRAFFICABLE LIDS WITH COMPOSITE LIDS (NON-CORROSIVE) AND FRAMES IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ-SEW-1308-I, 9, 10, 11.

INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

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LOT 1 SPI19717

LOT 3 SPI39664

TRUNK SEWER - SETOUT TABLE			
CHAINAGE	EASTING	NORTHING	INVERT LEVEL
315.000	1780.965	6851.416	1.021
320.000	1785.570	6853.363	1.028
325.000	1790.176	6855.311	1.035
330.000	1794.781	6857.258	1.041
335.000	1799.386	6859.205	1.048
340.000	1803.991	6861.152	1.055
345.000	1808.597	6863.100	1.061
350.000	1813.202	6865.047	1.068
355.000	1817.807	6866.994	1.075
360.000	1822.412	6868.942	1.081
365.000	1827.018	6870.889	1.088
370.000	1831.623	6872.836	1.095
375.000	1836.228	6874.783	1.101
380.000	1840.833	6876.731	1.108
385.000	1845.438	6878.678	1.115
390.000	1850.044	6880.625	1.121
395.000	1854.649	6882.573	1.128
400.000	1859.254	6884.520	1.135

TRUNK SEWER - SETOUT TABLE			
CHAINAGE	EASTING	NORTHING	INVERT LEVEL
405.000	1863.859	6886.467	1.141
410.000	1868.465	6888.414	1.148
415.000	1873.070	6890.362	1.155
420.000	1877.675	6892.309	1.161
425.000	1882.280	6894.256	1.168
430.000	1886.885	6896.203	1.175
435.000	1891.491	6898.151	1.181
437.725	1894.000	6899.212	-
440.000	1896.058	6900.183	1.247
445.000	1900.579	6902.317	1.322
450.000	1905.101	6904.452	1.397
455.000	1909.623	6906.586	1.472
460.000	1914.144	6908.720	1.547
465.000	1918.666	6910.855	1.622
470.000	1923.187	6912.989	1.697
475.000	1927.709	6915.123	1.772
480.000	1932.230	6917.258	1.847
485.000	1936.752	6919.392	1.922

TRUNK SEWER PIPE INVERTS	
END OF PIPE CHAINAGE	INVERT LEVEL
436.965	1.184
438.475	1.224

CAUTION

EXISTING ELECTRICAL OVERHEAD, POWER POLE AND STAY WIRE IN THIS AREA

EXTENT OF POTHOLING/ TRACING INVESTIGATION OF BP PRIVATE SEWER RISING MAIN

RISING MAIN DISCHARGE TO GRAVITY SEWER MANHOLE. REFER SEQ CODE STD DWG SEQ-SPS-1406-I

EXISTING 250mm PE100 PN16 SEWER RISING MAIN TO BE DECOMMISSIONED AND TAKEN UP / REMOVED UPON SUCCESSFUL LIVE CONNECTION OF TRUNK GRAVITY SEWER MAIN

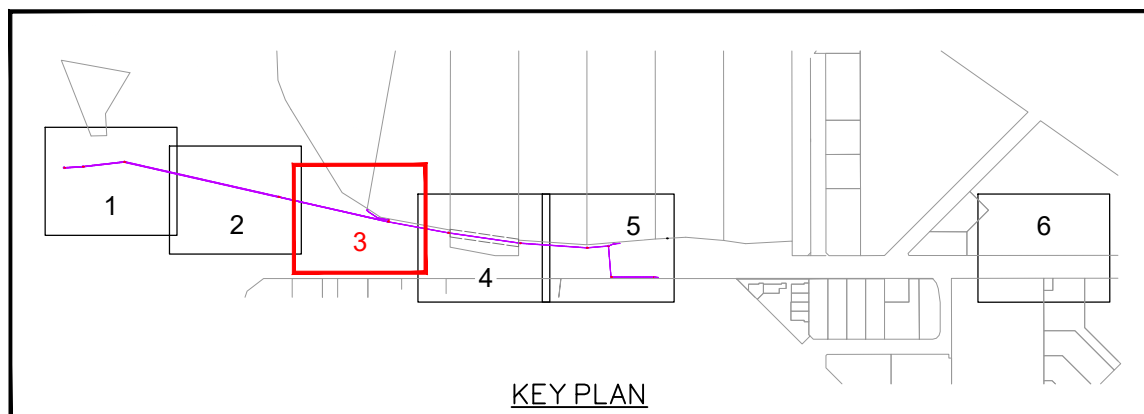
TYPE 'J' PVC MAINTENANCE SHAFT 300mm RISER TO EFFECT A CHANGE OF DIRECTION IN 150mm GRAVITY SEWER LINE

PROVIDE 150mm PVC-U CL SN8 GRAVITY SEWER LINE

LIVE WORKS SCHEDULE

No.	DESCRIPTION	DIA. SEWER	MH NO	MH/MS TYPE	COVER TYPE	LOT NO	FSL	ESL	IL	DEPTH TO INVERT
1(A)	UPON SUCCESSFUL LIVE CONNECTION OF NEW TRUNK GRAVITY SEWER LINE 01. CONTRACTOR IS TO CONNECT EXISTING 100mm DIA. PE PRIVATE SEWER RISING MAIN INTO STRUCTURE S2/2 UNDER GCWW SUPERVISION AT DEVELOPER'S EXPENSE.	DN150	S2/2	1050 P2	D/C	N/A	3.067	3.067	1.879	1.188m
1(B)	CONTRACTOR TO PLUG OUTLET SIDE OF PRIVATE PUMP STATION RECEIVER MANHOLE. SEWAGE FLOWS TO BE INTERCEPTED AND TRANSPORTED TO A LICENSED WASTE FACILITY DURING LIVE CONNECTION PROCESS. EXISTING 100mm PE LINE TO BE CUT AT THE INLET SIDE OF S2/2. A 6m PE PIPE IS TO BE CONNECTED TO THE EXISTING 100mm PRIVATE SEWER RISING MAIN USING AN APPROVED OFF TAKE CLAMP. CONTRACTOR TO BUILD NEW MAINTENANCE SHAFT S1/2 AROUND PREVIOUSLY INSTALLED STUB FROM S5/1.									

NOTE:
1. CONTRACTOR TO CONFIRM LOCATIONS AND LEVELS OF EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY SUPERINTENDENT IF DIFFERENT FROM THOSE SHOWN.



KEY PLAN



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: VANTAGE YATALA
EXTERNAL TRUNK GRAVITY SEWER
(City of Gold Coast: Stapylton XGMA21)

Site Address:
STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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DRAWING TITLE

SEWER LAYOUT PLAN
SHEET 3 OF 6

Rev	Date	Description	By	Check
C	02-09-20	FURTHER INFORMATION REQUEST RESPONSE	BA	MG
B	13-07-20	INFORMATION REQUEST RESPONSE	BA	MG
A	08-05-20	ORIGINAL ISSUE	IG	MG
ISSUE	Date	Description	DRN	CHK

Scale 1:250 - Lengths are in Metres.
0 2 4 6 8 10 12 14 16 18 20

Scale at A1:	1:250
Designed:	IG
Drafted:	IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	02-09-20

Drawing No: 5941 ENG EXTSEW 602 Rev. No: C

MANHOLE COVERS AND SURROUNDS:

INSTALL ALL SEWER MAINTENANCE STRUCTURE CLASS D TRAFFICABLE LIDS WITH COMPOSITE LIDS (NON-CORROSIVE) AND FRAMES IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ-SEW-1308-I, 9, 10, 11.

INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

LOT 3 SPI39664

LOT 4 WD3607

LOT 5 SPI39664

TRUNK SEWER - SETOUT TABLE			
CHAINAGE	EASTING	NORTHING	INVERT LEVEL
480.000	1932.230	6917.258	1.847
485.000	1936.752	6919.392	1.922
490.000	1941.274	6921.526	1.996
495.000	1945.795	6923.661	2.071
500.000	1950.317	6925.795	2.146
505.000	1954.838	6927.929	2.221
510.000	1959.360	6930.064	2.296
515.000	1963.881	6932.198	2.371
518.863	1967.374	6933.847	-
520.000	1968.383	6934.373	2.448
525.000	1972.817	6936.683	2.456
530.000	1977.252	6938.993	2.463
535.000	1981.686	6941.303	2.470
540.000	1986.120	6943.614	2.477
545.000	1990.554	6945.924	2.484
550.000	1994.989	6948.234	2.491
555.000	1999.423	6950.544	2.499
560.000	2003.857	6952.855	2.506

TRUNK SEWER - SETOUT TABLE			
CHAINAGE	EASTING	NORTHING	INVERT LEVEL
565.000	2008.291	6955.165	2.513
570.000	2012.726	6957.475	2.520
575.000	2017.160	6959.786	2.527
580.000	2021.594	6962.096	2.534
585.000	2026.028	6964.406	2.542
590.000	2030.463	6966.716	2.549
595.000	2034.897	6969.027	2.556
600.000	2039.331	6971.337	2.563
605.000	2043.765	6973.647	2.570
610.000	2048.200	6975.958	2.577
615.000	2052.634	6978.268	2.584
615.359	2052.952	6978.434	-
620.000	2056.899	6980.876	2.620
625.000	2061.150	6983.508	2.627
630.000	2065.401	6986.139	2.634
635.000	2069.653	6988.771	2.641
640.000	2073.904	6991.402	2.648
645.000	2078.156	6994.034	2.655
650.000	2082.407	6996.666	2.663

TRUNK SEWER PIPE INVERTS	
END OF PIPE CHAINAGE	INVERT LEVEL
518.103	2.418
519.623	2.448
614.599	2.584
616.109	2.614



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Site Address:
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ROAD, STAPYLTON QLD 4207

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DRAWING TITLE

SEWER LAYOUT PLAN
SHEET 4 OF 6

Rev.	Date	Description	By	Check
A	08-05-20	ORIGINAL ISSUE	IG	MG
B	13-07-20	INFORMATION REQUEST RESPONSE	BA	MG
Issue	Date	Description	DRN	CHK

Scale 1:250 - Lengths are in Metres.
0 2 4 6 8 10 12 14 16 18 20

Scale at A1: 1:250

Designed:	IG
Drafted:	IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	08-05-20

Drawing No: 5941 ENG EXTSEW 603 Rev. No: B

EXISTING 250Ø PE100 PN16 SEWER RISING MAIN TO BE DECOMMISSIONED AND TAKEN UP / REMOVED UPON SUCCESSFUL LIVE CONNECTION OF TRUNK GRAVITY SEWER MAIN

EXISTING 200Ø PE100 PN16 SEWER RISING MAIN TO BE DECOMMISSIONED AND TAKEN UP / REMOVED UPON SUCCESSFUL LIVE CONNECTION OF TRUNK GRAVITY SEWER MAIN

RETAIN AND PROTECT
EXISTING SHED

E: 1967.374
N: 6933.847
CH: 518.863
DS IL: 2.418
US IL: 2.448

EXISTING 250Ø PE100 PN16 SEWER RISING MAIN TO BE DECOMMISSIONED AND TAKEN UP / REMOVED UPON SUCCESSFUL LIVE CONNECTION OF TRUNK GRAVITY SEWER MAIN

EXISTING OVERHEAD
ELECTRICAL TO BE
RELOCATED BY
OTHERS

E: 2052.952
N: 6978.434
CH: 615.359
DS IL: 2.584
US IL: 2.614

EXISTING 250Ø PE100 PN16 SEWER RISING MAIN TO BE DECOMMISSIONED AND TAKEN UP / REMOVED UPON SUCCESSFUL LIVE CONNECTION OF TRUNK GRAVITY SEWER MAIN

STAPYLTON JACOBS WELL ROAD

JOINS DWG 5941 ENG EXTSEW 602

JOINS DWG 5941 ENG EXTSEW 604

! WARNING !
BEWARE OF EXISTING UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN PHYSICALLY LOCATED WHERE INDICATED. HOWEVER SOME SERVICES OUTSIDE OF THE EXTENT OF TRUNK SEWER WORKS ARE INTERPOLATED FROM AERIAL PHOTOGRAMMETRIC DATA OR KNOWN POSITIONS OF VALVES, ACCESS CHAMBERS ETC. OR INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE INTERPOLATED INFORMATION SUPPLIED.

KEY PLAN

SEWER LAYOUT PLAN SHEET 4 OF 6

LIVE WORKS SCHEDULE

No.	DESCRIPTION	DIA. SEWER	MH NO	MH/MS TYPE	COVER TYPE	LOT NO	FSL	ESL	IL	DEPTH TO INVERT
1(A)	UPON SUCCESSFUL LIVE CONNECTION OF NEW TRUNK GRAVITY SEWER LINE 01 CONTRACTOR IS TO CONNECT EXISTING GCWW 200mm DIA. SEWER RISING MAIN INTO STRUCTURE S1/3 UNDER GCWW SUPERVISION AT DEVELOPER'S EXPENSE.	DN150	SI/3	1050 P2	D/C	N/A	5.094	5.094	4.010	1.084m
1(B)	CONTRACTOR TO PLUG OUTLET SIDE OF MANHOLE EX1/3. SEWAGE FLOWS TO BE INTERCEPTED AT EX1/3 AND TRANSPORTED TO A LICENSED FACILITY DURING LIVE CONNECTION PROCESS. EXISTING 200mm PE LINE TO BE CUT AT THE INLET SIDE OF SI/3. A 6.0m PVC-M PIPE IS TO BE CONNECTED TO THE EXISTING 200mm SRM USING AN APPROVED OFFTAKE CLAMP. CONTRACTOR TO BUILD NEW MANHOLE SI/3 AROUND PVC-U PIPE AND NEW GRAVITY MAIN INCLUDING BENCHING.									
2(A)	UPON SUCCESSFUL LIVE CONNECTION OF NEW TRUNK GRAVITY SEWER LINE 01 CONTRACTOR IS TO CONNECT EXISTING GCWW 100mm DIA. SEWER RISING MAIN INTO STRUCTURE S12/1 UNDER GCWW SUPERVISION AT DEVELOPER'S EXPENSE.	DN150	SI/1	1050 P2	D/C	N/A	7.475	4.873	3.304	4.171m
2(B)	CONTRACTOR TO PLUG OUTLET SIDE OF MANHOLE EX13/1 (REFER DWG 5941 ENG EXTSEW 605). SEWAGE FLOWS TO BE INTERCEPTED AT EX13/1 AND TRANSPORTED TO A LICENSED WASTE FACILITY DURING LIVE CONNECTION PROCESS. EXISTING 100mm PVC-U LINE TO BE CUT AT THE INLET SIDE OF SI/11. A 6.0m PVC-M PIPE IS TO BE CONNECTED TO THE EXISTING 100mm SRM USING AN APPROVED OFFTAKE CLAMP. CONTRACTOR TO BUILD NEW MANHOLE SI/11 AROUND PVC-U PIPE AND NEW GRAVITY MAIN INCLUDING BENCHING.									

TRUNK SEWER - SETOUT TABLE			
CHAINAGE	EASTING	NORTHING	INVERT LEVEL
645.000	2078.156	6994.034	2.655
650.000	2082.407	6996.666	2.663
655.000	2086.659	6999.297	2.670
660.000	2090.910	7001.929	2.677
665.000	2095.162	7004.560	2.684
670.000	2099.413	7007.192	2.691
675.000	2103.665	7009.823	2.698
680.000	2107.916	7012.455	2.706
685.000	2112.168	7015.086	2.713
690.000	2116.419	7017.718	2.720
695.000	2120.671	7020.349	2.727
700.000	2124.922	7022.981	2.734
703.594	2127.978	7024.873	-
705.000	2129.048	7025.785	2.769
710.000	2132.852	7029.030	2.776
715.000	2136.656	7032.274	2.784
720.000	2140.460	7035.519	2.791
725.000	2144.264	7038.764	2.798
730.000	2148.069	7042.009	2.805
732.074	2149.646	7043.354	-
735.000	2151.543	7041.125	2.988

TRUNK SEWER - SETOUT TABLE			
CHAINAGE	EASTING	NORTHING	INVERT LEVEL
740.000	2154.788	7037.322	3.000
745.000	2158.033	7033.518	3.013
750.000	2161.278	7029.714	3.025
755.000	2164.523	7025.910	3.038
760.000	2167.768	7022.106	3.050
765.000	2171.013	7018.302	3.063
770.000	2174.258	7014.498	3.075
773.250	2176.367	7012.026	3.183
775.000	2177.789	7013.047	3.288
780.000	2181.849	7015.965	3.304
785.000	2185.910	7018.883	3.321
790.000	2189.970	7021.800	3.338
795.000	2194.031	7024.718	3.354
800.000	2198.091	7027.635	3.371
805.000	2202.152	7030.553	3.388
810.000	2206.212	7033.470	3.405
815.000	2210.273	7036.388	3.421
820.000	2214.333	7039.306	3.438
825.000	2218.394	7042.223	3.455
830.000	2222.454	7045.141	3.470
830.157	2222.582	7045.233	3.470

TRUNK SEWER PIPE INVERTS	
END OF PIPE CHAINAGE	INVERT LEVEL
702.834	2.738
704.354	2.768
731.314	2.807
732.834	2.982
772.640	3.082
773.860	3.284
829.642	3.470

MANHOLE COVERS AND SURROUNDS:

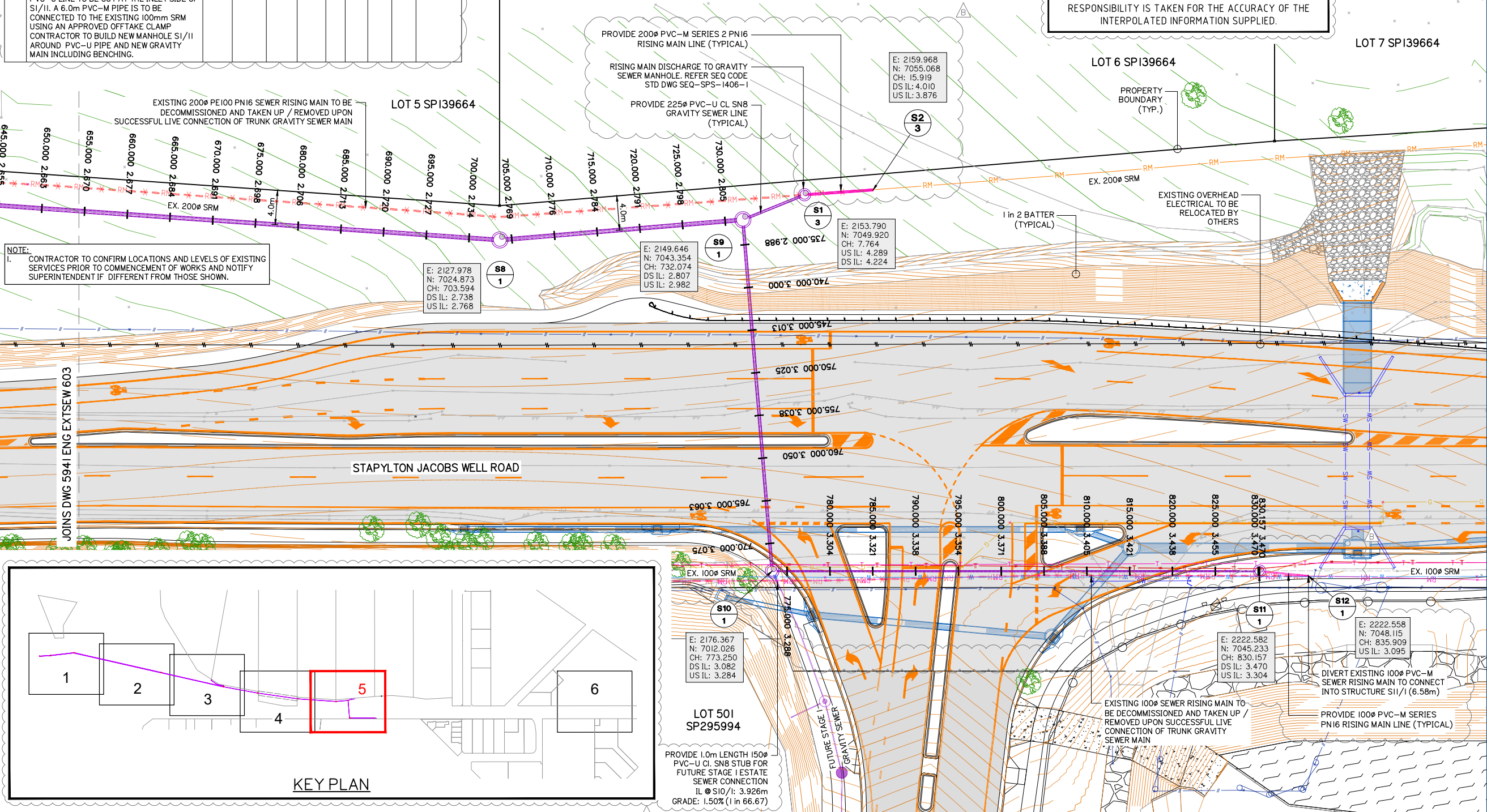
INSTALL ALL SEWER MAINTENANCE STRUCTURE CLASS D TRAFFICABLE LIDS WITH COMPOSITE LIDS (NON-CORROSIVE) AND FRAMES IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ-SEW-1308-I, 9, 10, 11.

INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

! WARNING !

BEWARE OF EXISTING UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN PHYSICALLY LOCATED WHERE INDICATED. HOWEVER SOME SERVICES OUTSIDE OF THE EXTENT OF TRUNK SEWER WORKS ARE INTERPOLATED FROM AERIAL PHOTOGRAMMETRIC DATA OR KNOWN POSITIONS OF VALVES, ACCESS CHAMBERS ETC. OR INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE INTERPOLATED INFORMATION SUPPLIED.



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FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: VANTAGE YATALA
EXTERNAL TRUNK GRAVITY SEWER
(City of Gold Coast: Stapylton XGMA21)

Site Address:
STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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DRAWING TITLE

SEWER LAYOUT PLAN
SHEET 5 OF 6

Rev.	Date	Description	By	Check
A	08-05-20	ORIGINAL ISSUE	IG	MG
B	13-07-20	INFORMATION REQUEST RESPONSE	BA	MG
ISSUE	Date	Description	DRN	CHK

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0 2 4 6 8 10 12 14 16 18 20

Scale at A1: 1:250

Designed: IG

Drafted: IG

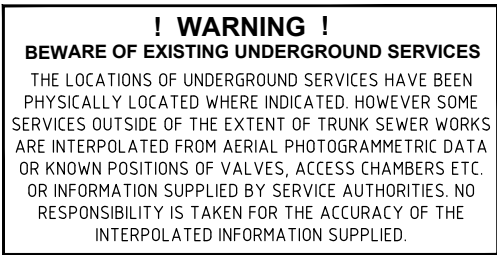
Approved: MG

RPEQ: 16939

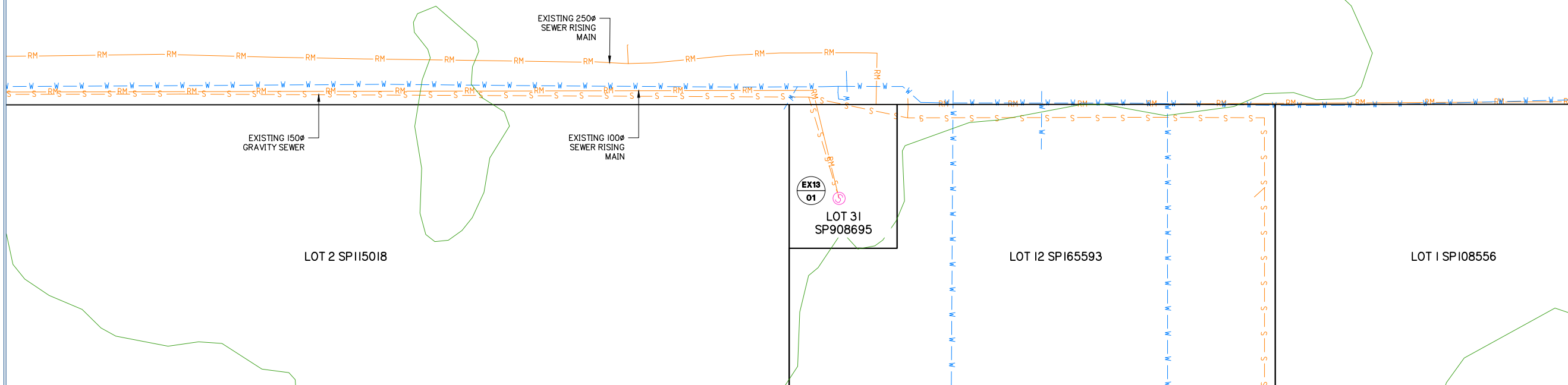
Signed:

Date: 08-05-20

Drawing No: 5941 ENG EXTSEW 604
Rev. No: B



STAPYLTON JACOBS WELL ROAD



S4/1

D/C	
MHI500	(P2)
V	
I	
Y	

RIGS STRUCTURE DROPS		RIGS STRUCTURE LIDS	
V	STRAIGHT THROUGH SEWER SEQ DWG SEQ-SEW-1303-1	B	NON-TRAFFICABLE LID
		D	TRAFFICABLE LID
		C	COMPOSITE

RIGS STRUCTURE TYPES	
(P2)	FULL CAST IN-SITU MAINTENANCE HOLE WITH CAST IN-SITU BASE. INSTALL CLASS D COMPOSITE LIDS. REFER SEQ STD DWG SEQ-SEW-1300-I
(P2) D MH	TYPE (P2) RISING MAIN DISCHARGE TO GRAVITY SEWER MANHOLE IN ACCORDANCE WITH SEQ STD DWG SEQ-SPS-1406-I

RIGGS GENERAL NOTES	
	PE PIPES USED FOR MICROTUNNELING TO BE MINIMUM SDR 9, CLASS PN20 PE100 UNLESS SPECIFIED OTHERWISE.
2	ALL PIPES TO BE INSTALLED WITH TRACER WIRE.
3	PN20 PE100 PIPES TO BE INTERNAL WHITE WALLED WITH WALL THICKNESS DESIGNED FOR INSTALLATION FORCES.
4	BUT WELDED JOINTS ARE MANDATORY FOR MICROTUNNELING WHERE CONTINUOUS PIPES ON COIL ARE NOT AVAILABLE.
5	EMBEDMENT TYPES AS INDICATED ON LONGITUDINAL SECTIONS AND SEQ-S-VEW-1201-I
6	CONTRACTOR TO VERIFY DOWNSTREAM EXISTING PIPE LEVELS PRIOR TO COMMENCEMENT OF PIPEWORK.
7	POLYETHYLENE (PE) LINING TO BE INSTALLED TO ALL MAINTENANCE STRUCTURES, REFER LONGITUDINAL SECTIONS, REFER ALSO SEQ-SPS-1407-I-1 & A-2-B
8	DESIGN OF DEEP SEWERS GREATER THAN 5 METRES TO BE CARRIED OUT BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER IN ACCORDANCE WITH SEQ SEWER CODE CLAUSE 4.6.2.2 AND PE LINING REQUIREMENTS.
	9 MAINTENANCE HOLES WHERE TRAFFICABLE LIDS ARE SPECIFIED TO BE COMPOSITE LIDS AND FRAMES
	10 (NON-CORROSIVE), FOR ALL MANHOLES WHERE INTERNAL PROTECTION COATINGS ARE REQUIRED AS PER CLAUSE 7.6.2.(1) TO (VI) OF THE SEWERAGE CLAUSE, REFER SEWAL CIVIL IPAM L10

MANHOLE COVERS AND SURROUNDS:

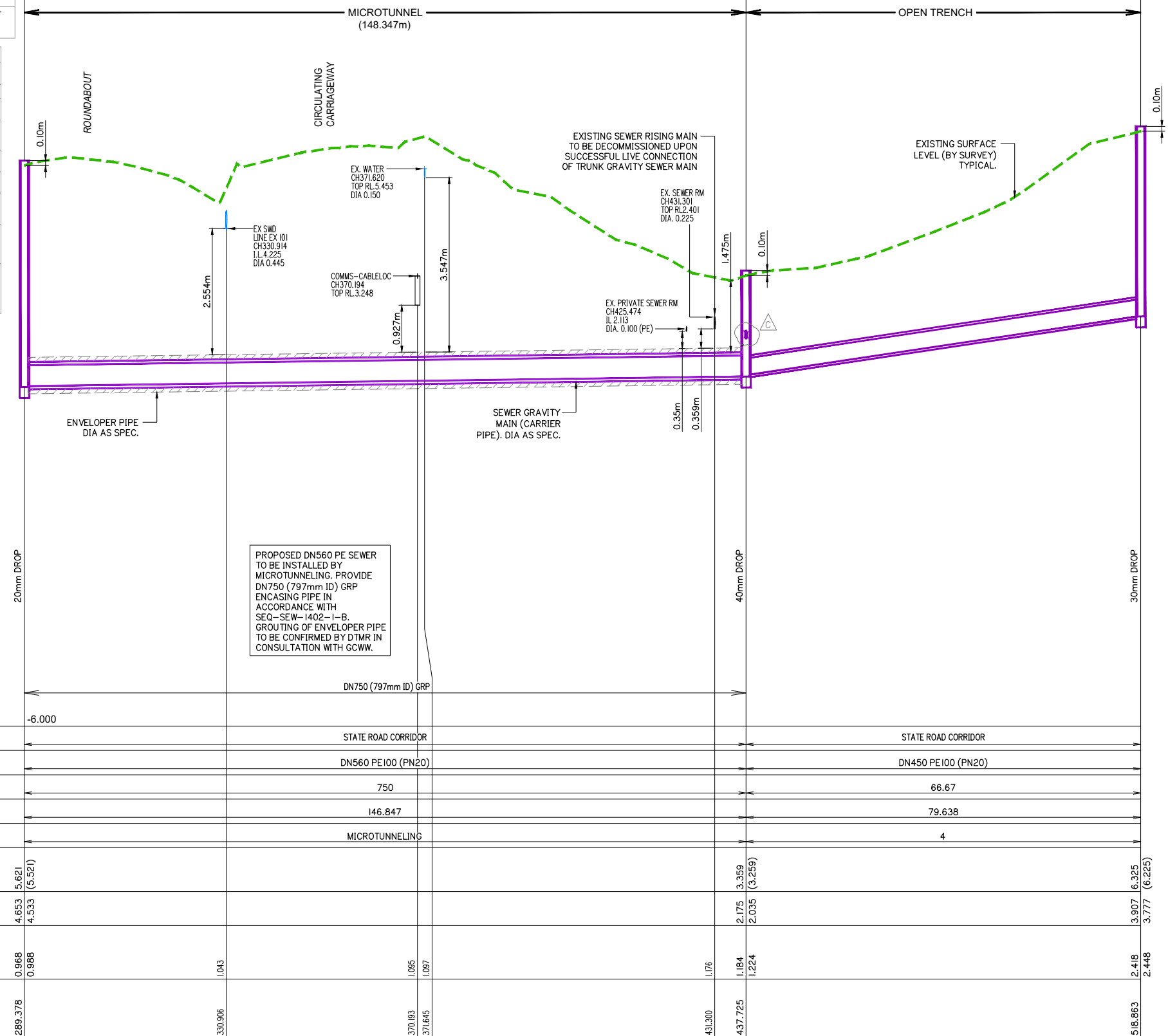
INSTALL ALL SEWER MAINTENANCE STRUCTURE CLASS D TRAFFICABLE LIDS WITH COMPOSITE LIDS (NON-CORROSIVE) AND FRAMES IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ-SEW-1308-1, 9, 10, 11.

INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

S5/1

D/C		D/C
MH1500 (P2)		MH1500 (P2)
V	X	V
$\sum_i$	$\sum_i$	$\sum_i$
Y		Y

S6/1

ENVELOPER PIPE SIZE (mm), CLASS

DATUM RL
PROPERTY DESCRIPTION
PIPE SIZE (mm), CLASS
GRADE (1 IN X)
PIPE LENGTH (END TO END)
EMBEDMENT TYPE
FINISHED (& EXISTING) SURFACE LEVEL
DEPTH OF PIPE INVERT BELOW FSL
PIPE INVERT LEVEL
CHAINAGE

DN750 (797mm ID) GRP			V		
STATE ROAD CORRIDOR				STATE ROAD CORRIDOR	
DN560 PE100 (PN20)				DN450 PE100 (PN20)	
750				66.67	
I46.847				79.638	
MICROTUNNELING				4	
				3.359 (3.259)	6.325 (6.225)
				2.175 2.035	3.907 3.777
	1.095 1.097		1.176	1.184 1.224	2.418 2.448
	370.193 371.645		431.300 437.725		518.863

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FRASERS PROPERTY
(AUSTRALIA) PTY. LTD

Project: VANTAGE YATALA
EXTERNAL TRUNK GRAVITY SEWER
(City of Gold Coast: Stapylton XGMA21)

Site Address:
STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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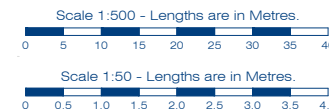
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DRAWING TITLE

SEWER LONGITUDINAL
SECTIONS - SHEET 2 OF 4

C	02-09-20	FURTHER INFORMATION REQUEST RESPONSE	BA	MC
B	13-07-20	INFORMATION REQUEST RESPONSE	BA	MC
A	08-05-20	ORIGINAL ISSUE	IG	MC
Issue	Date	Description	DRN	CH



Scale at A1:	1:500 (H)	1:50 (V)
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Designed:	IG
Drafted:	IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	02-09-20

Drawing No:	Rev. No:
5941 ENG EXTSEW 611	C

MAINTENANCE HOLE / SHAFT NAME

MH / MS COVER TYPE	D/C		
MH / MS TYPE	MH1200 (P2)	MH1050 (P2) D MH	
DS MH / MS DROP TYPE	V	-	-
LINE DEFLECTION & BRANCHES	-89°	I	-
PE LINING CORROSION PROTECTION?	Y	Y	-

RIGS STRUCTURE DROPS	RIGS STRUCTURE LIDS
B STRAIGHT THROUGH SEWER SEQ DWG SEQ-SEW-1303-1	B NON-TRAFFICABLE LID
	D TRAFFICABLE LID
	C COMPOSITE

RIGS STRUCTURE TYPES	
(P2)	FULL CAST IN-SITU MAINTENANCE HOLE WITH CAST IN-SITU BASE. INSTALL CLASS D COMPOSITE LIDS. REFER SEQ STD DWG SEQ-SEW-1300-1
(P2) D MH	TYPE (P2) RISING MAIN DISCHARGE TO GRAVITY SEWER MANHOLE IN ACCORDANCE WITH SEQ STD DWG SEQ-SPS-1406-1
JI	TYPE "JI" MAINTENANCE STRUCTURE SEQ STD DWG SEQ-SEW-1314-2
BND	LONG RADIUS BEND (R3.0m) SEQ STD DWG SEQ-SEW-1314-3

RIGS GENERAL NOTES	
1	PE PIPES USED FOR MICROTUNNELING TO BE MINIMUM SDR 9, CLASS PN20 PE100 UNLESS SPECIFIED OTHERWISE.
2	ALL PIPES TO BE INSTALLED WITH TRACER WIRE.
3	PN20 PE100 PIPES TO BE INTERNAL WHITE WALLED WITH WALL THICKNESS DESIGNED FOR INSTALLATION FORCES.
4	BUTT WELDED JOINTS ARE MANDATORY FOR MICROTUNNELING WHERE CONTINUOUS PIPES ON COIL ARE NOT AVAILABLE.
5	EMBEDMENT TYPES AS INDICATED ON LONGITUDINAL SECTIONS AND SEQ-SEW-1201-1
6	CONTRACTOR TO VERIFY DOWNSTREAM EXISTING PIPE LEVELS PRIOR TO COMMENCEMENT OF PIPEWORK.
7	POLYETHYLENE (PE) LINING TO BE INSTALLED TO ALL MAINTENANCE STRUCTURES. REFER LONGITUDINAL SECTIONS. REFER ALSO SEQ-SPS-1407-1-A & 2-B
8	DESIGN OF DEEP SEWERS GREATER THAN 5 METRES TO BE CARRIED OUT BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER IN ACCORDANCE WITH SEQ SEWER CODE CLAUSE 4.6.2.2 AND PE LINING REQUIREMENTS.
9	ALL MAINTENANCE HOLES WHERE TRAFFICABLE LIDS ARE SPECIFIED TO BE COMPOSITE LIDS AND FRAMES (NON-CORROSIVE). FOR ALL MANHOLES WHERE INTERNAL PROTECTION COATINGS ARE REQUIRED AS PER CLAUSE 7.6.2(1) TO (VII) OF THE SEWERAGE CLAUSE. REFER SEQ CIVIL IPAM LIST.
10	PROVIDE CONCRETE THRUST BLOCKS AT HORIZONTAL AND VERTICAL PIPE BENDS FOR RISING MAIN CONNECTION WORKS FOR PROPOSED LINES 2 AND 3. CONSTRUCT IN ACCORDANCE WITH SEQ CODE STD DWG SEQ-SEW-1200.
11	ALL MAINTENANCE SHAFTS (MS) TO HAVE 300mmØ PVC RISERS UNLESS NOTED OTHERWISE

DATUM RL	-5.000				
PROPERTY DESCRIPTION	STATE ROAD CORRIDOR				
PIPE SIZE (mm), CLASS	150 uPVC CI. SN8		100 PVC-M PN16		
GRADE (1 IN X)	300		-23.12		
PIPE LENGTH (END TO END)	55.783		5.177		
EMBEDMENT TYPE	4		4		
FINISHED (& EXISTING) SURFACE LEVEL	3.950 7.032	3.748 (7.615)			
DEPTH OF PIPE INVERT BELOW FSL	3.950 3.748	4.005 7.475	4.171 (4.873)	1.19 4.285	1.19 (4.285)
PIPE INVERT LEVEL	3.082 3.284	3.353 3.414	3.47 3.304	3.095	
CHAINAGE	773.25	794.411	812.809	830.157	835.909

LINE

1

S5/1	S1/2	S2/2	S3/2	S4/2	S5/2
D/C	D	D/C	-	-	-
MH1500 (P2)	JI (300 RISER)	MH1050 (P2) D MH	BND	BND	
X	-	-	-	-	-
I	90°	-	23°	42°	-
Y	N	Y	-	-	-

OPEN TRENCH

RISING MAIN DISCHARGE TO GRAVITY SEWER MANHOLE. REFER SEQ CODE STD DWG SEQ-SPS-1406-1

PRIVATE RISING MAIN ASSUMED ALIGNMENT AND DEPTH. CONTRACTOR TO CONFIRM EXISTING SERVICE LOCATION PRIOR TO COMMENCEMENT OF WORKS

EXIST. PRIVATE SEWER RISING MAIN CH14.65 I/L 2.082 DIA 0.100 TO BE DECOMMISSIONED POST LIVE CONNECTION OF TRUNK SEWER

EXISTING RISING MAIN TO BE DECOMMISSIONED AND TAKEN-UP FOLLOWING LINE 1 LIVE CONNECTION WORKS, PRIOR TO LINE 2 RISING MAIN CONSTRUCTION

LIVE CONNECTION WORKS TO EXISTING SEWER RISING MAIN

PROVIDE THRUST BLOCK

PROVIDE THRUST BLOCK

PROVIDE THRUST BLOCK

-3.000					
STATE ROAD CORRIDOR	STATE ROAD CORRIDOR	STATE ROAD CORRIDOR	STATE ROAD CORRIDOR	STATE ROAD CORRIDOR	STATE ROAD CORRIDOR
150 uPVC CI. SN8	150 uPVC CI. SN8	110 PE100 SDR21	110 PE100 SDR21	110 PE100 SDR21	
100	100	-180	-180	-180	
1.413	2.000	10.745	16.645	1.103	
4	4	4	4	4	
2.175 3.359	1.54 3.138	1.038 3.067	1.336 3.156	0.938 2.665	0.938 2.659
1.289 (3.259)	1.154 1.129	1.188 (3.067)	1.336 (3.156)	0.938 (2.665)	0.938 (2.659)
1.184 1.97	1.984 2.009	2.029 1.879	1.82 1.82	1.727 1.727	1.721 1.721
0	2.5	5.363 8.583	16.682	33.427	34.63

2

S9/1	S1/3	S2/3
D/C	D/C	-
MH1500 (P2)	MH1050 (P2) D MH	BND
X	-	-
90°	18°	-
Y	Y	-

MANHOLE COVERS AND SURROUNDS:

INSTALL ALL SEWER MAINTENANCE STRUCTURE CLASS D TRAFFICABLE LIDS WITH COMPOSITE LIDS (NON-CORROSIVE) AND FRAMES IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ-SEW-1308-1, 9, 10, 11.

INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

MINIMUM COVER REQUIREMENTS 0.60m IN ACCORDANCE WITH DTMR TECHNICAL NOTE TN163

OPEN TRENCH

RISING MAIN DISCHARGE TO GRAVITY SEWER MANHOLE. REFER SEQ CODE STD DWG SEQ-SPS-1406-1

LIVE CONNECTION WORKS TO EXISTING SEWER RISING MAIN

PROVIDE THRUST BLOCK

PROVIDE THRUST BLOCK

0.000		
STATE ROAD CORRIDOR	STATE ROAD CORRIDOR	
225 uPVC CI. SN8	200 PVC-M PN16	
100	-56.922	
6.489	7.629	
4	4	
2.718 5.525	0.805 5.094	0.872 4.748
1.301 (5.525)	1.084 (5.094)	0.872 (4.748)
4.224 4.06	4.289 4.01	3.676
0	7.448 7.764	15.919

3



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SECTIONS - SHEET 4 OF 4

C	02-09-20	FURTHER INFORMATION REQUEST RESPONSE	BA	MG
B	13-07-20	INFORMATION REQUEST RESPONSE	BA	MG
A	08-05-20	ORIGINAL ISSUE	IG	MG
Issue	Date	Description	DRN	CHK

Scale 1:500 - Lengths are in Metres.

0 5 10 15 20 25 30 35 40

Scale 1:50 - Lengths are in Metres.

0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0

Scale at A1: 1:500 (H) 1:50 (V)

Designed: IG

Drafted: IG

Approved: MG

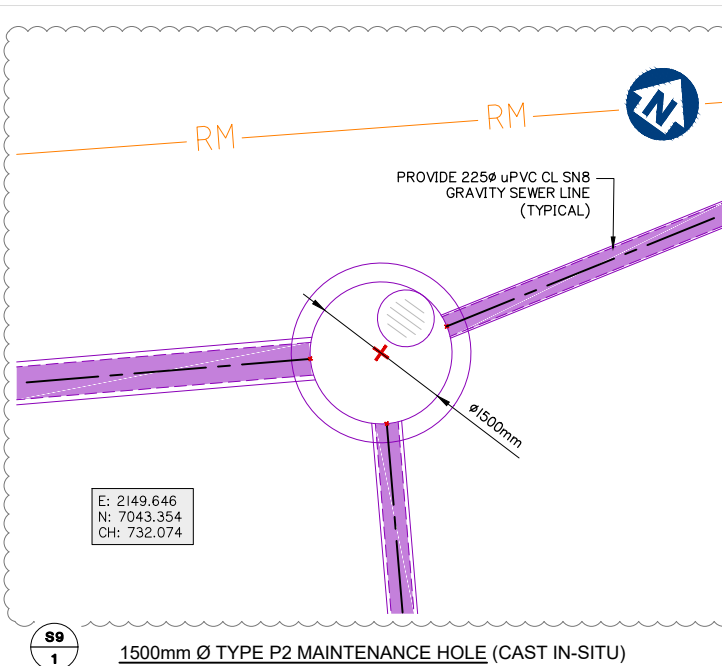
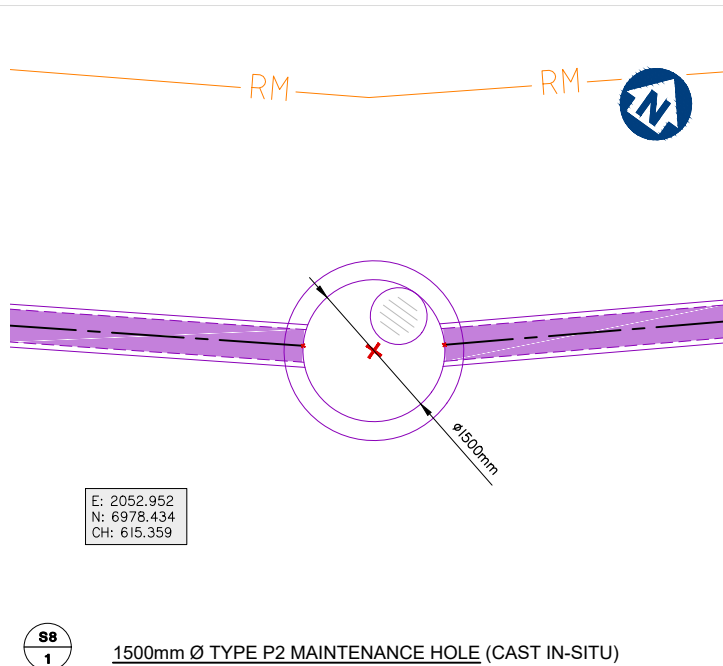
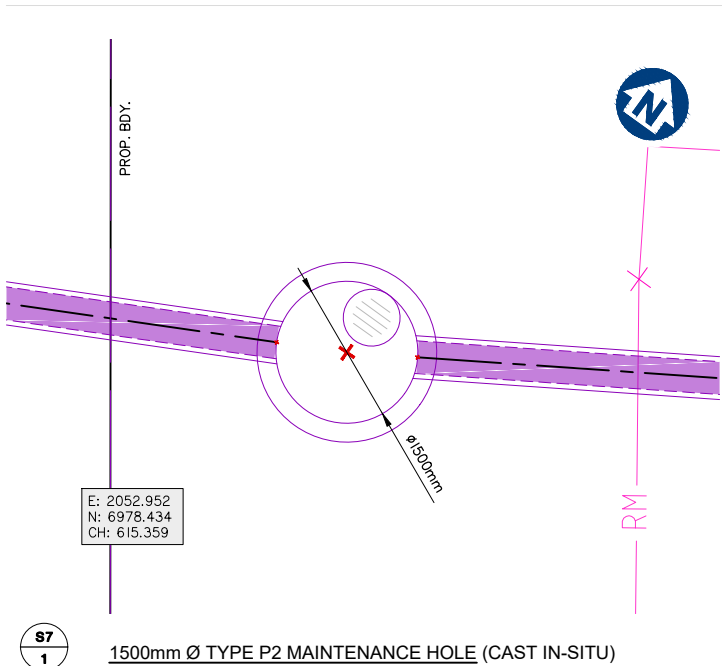
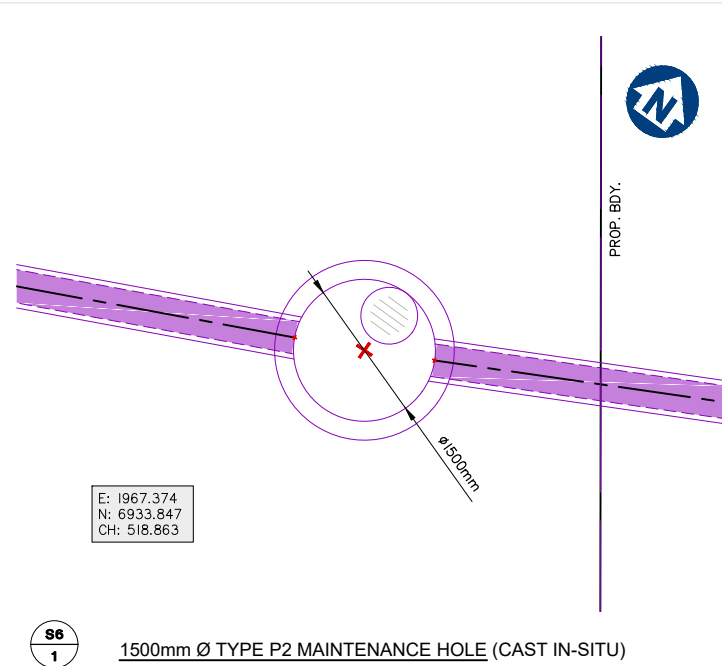
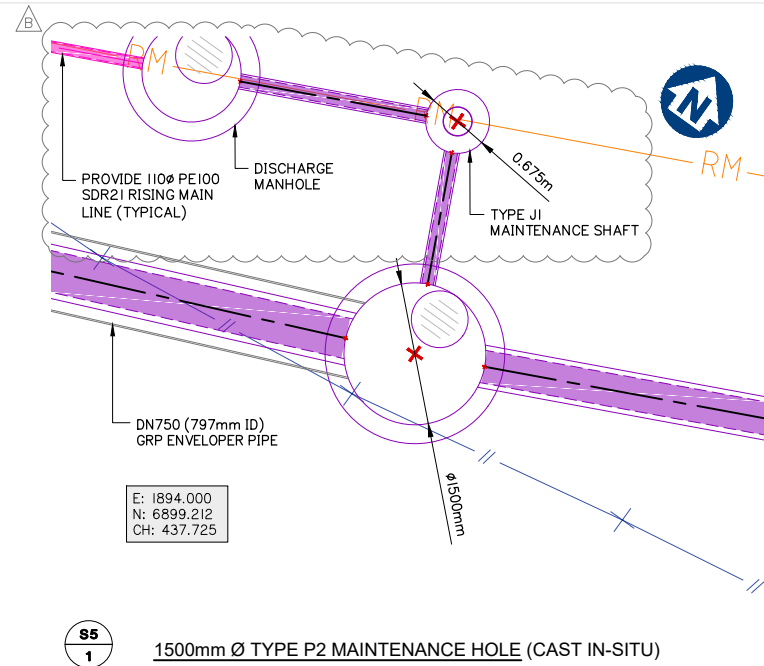
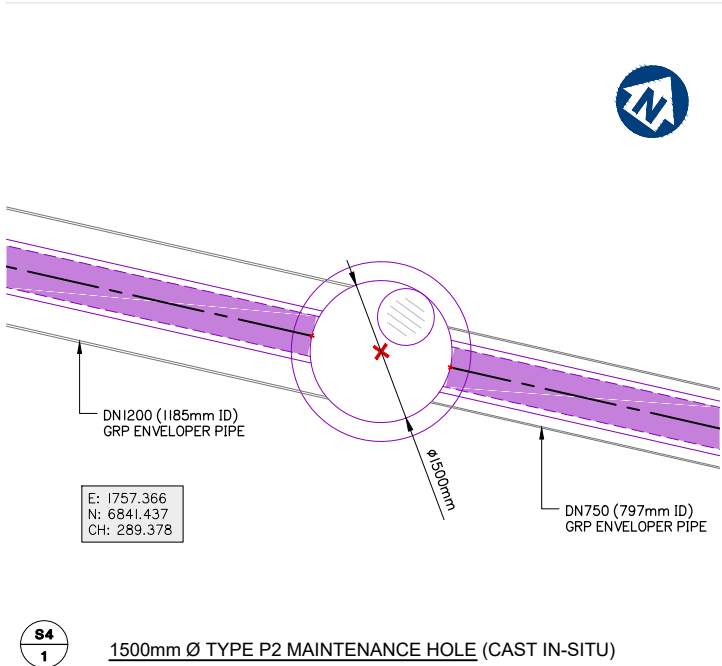
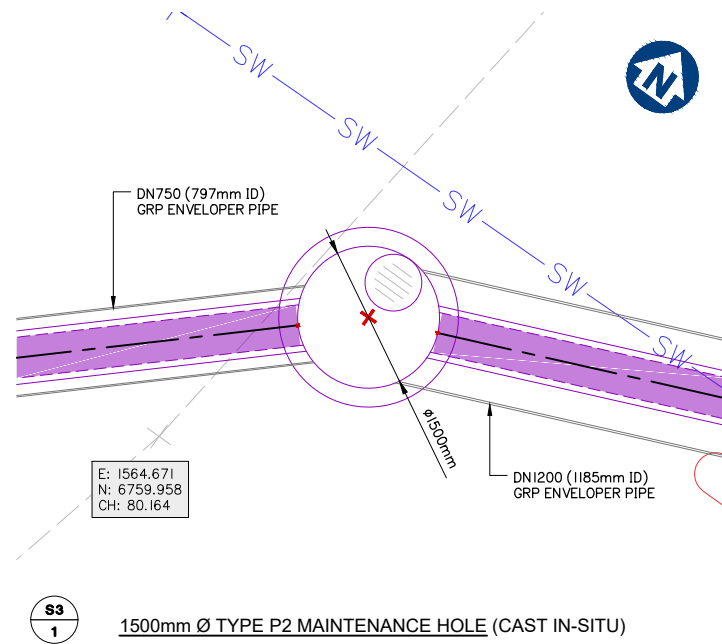
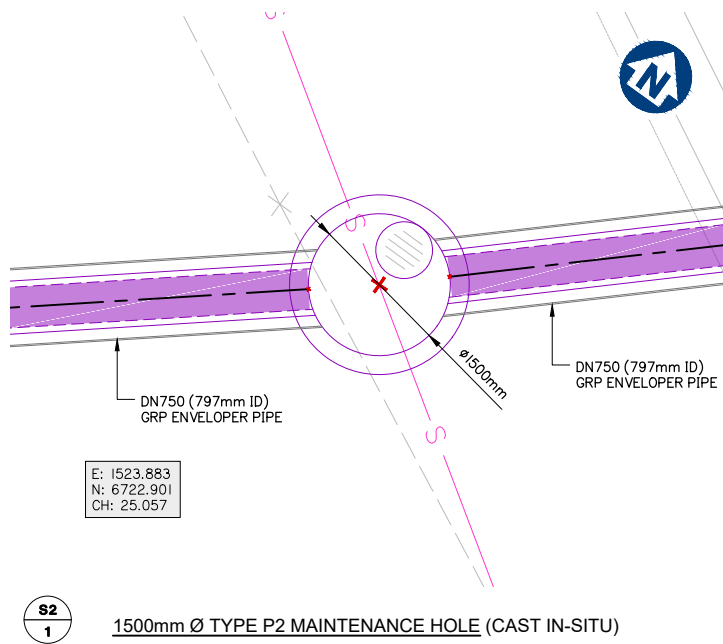
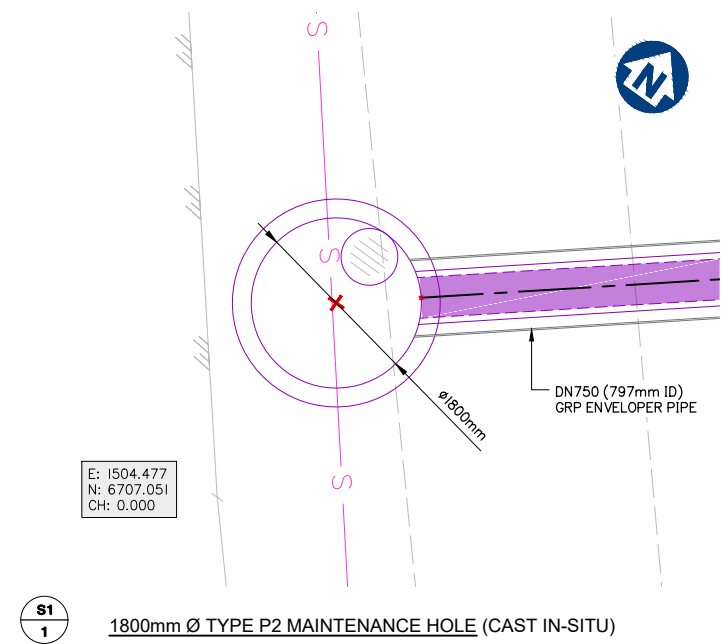
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Signed:

Date: 02-09-20

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Rev. No: C



Client:



Project: VANTAGE YATALA
EXTERNAL TRUNK GRAVITY SEWER
(City of Gold Coast: Stapylton XGMA21)

Site Address:
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SEWER STRUCTURE
DETAILS - SHEET 1 OF 2

Issue	Date	Description	DRN	CHK
C	02-09-20	FURTHER INFORMATION REQUEST RESPONSE	BA	MG
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A	08-05-20	ORIGINAL ISSUE	IG	MG

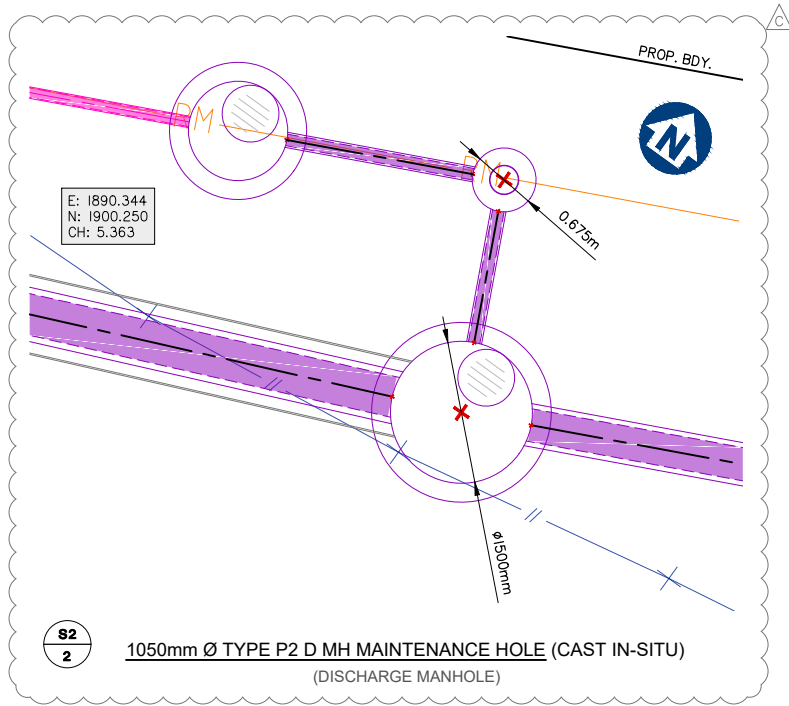
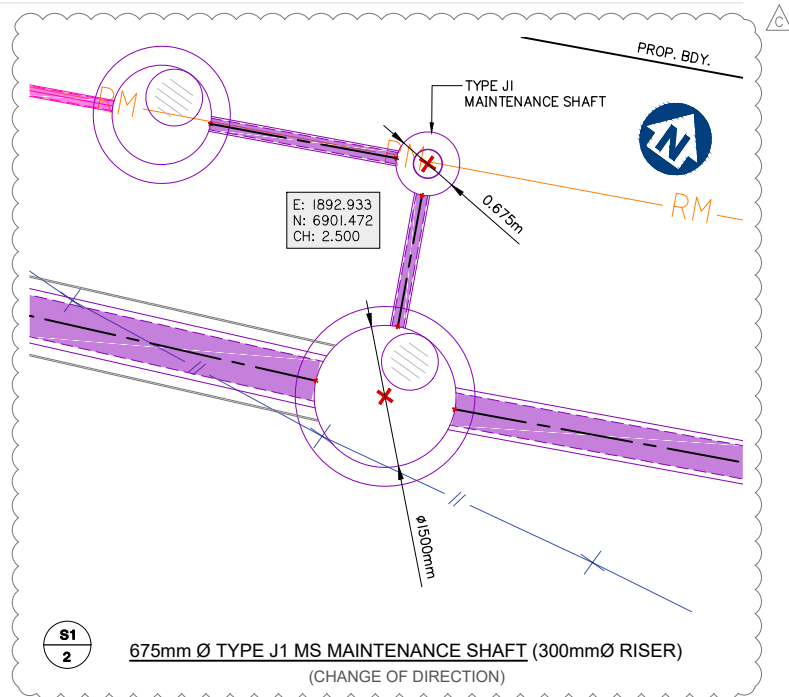
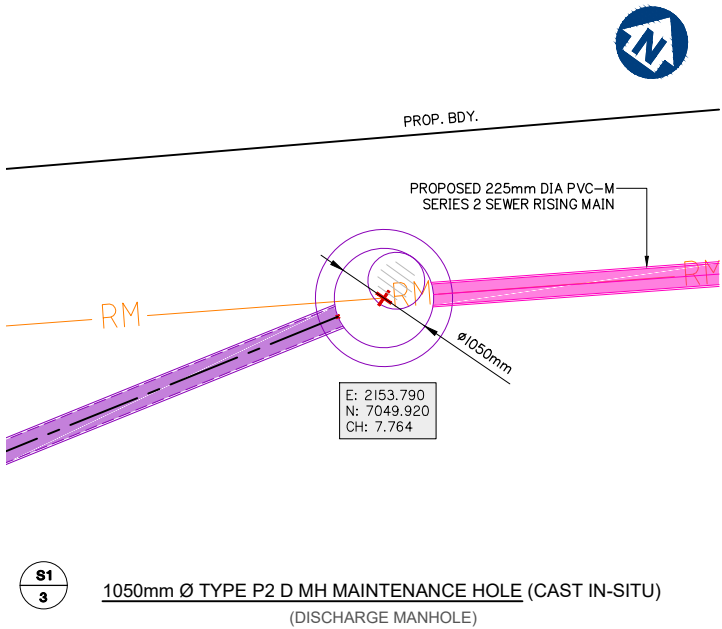
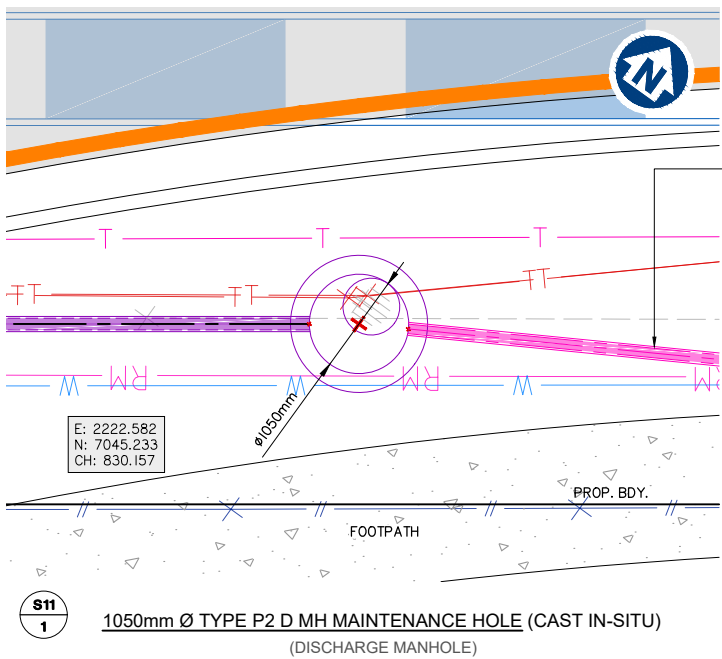
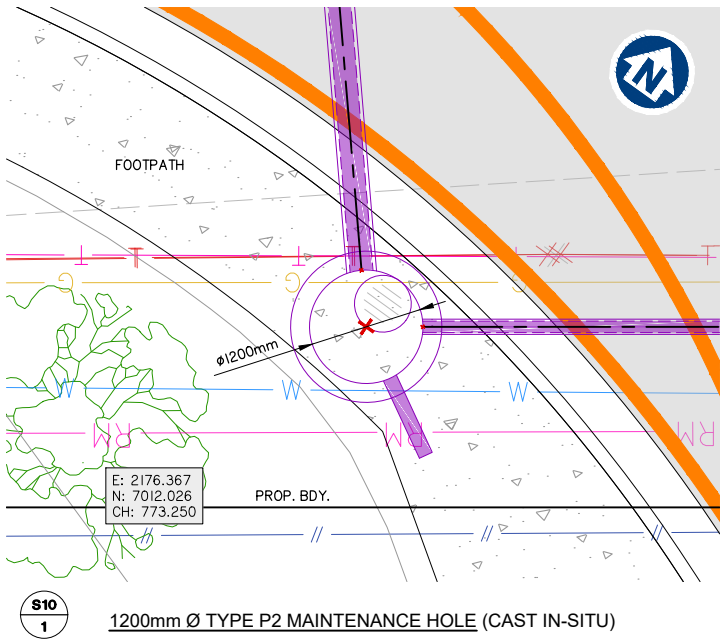
Scale 1:40 - Lengths are in Metres.

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Scale at A1:	1:40
Designed:	IG
Drafted:	IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	02-09-20

Drawing No: 5941 ENG EXTSEW 650

Rev. No: C



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SEWER STRUCTURE
DETAILS - SHEET 2 OF 2

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A	08-05-20	ORIGINAL ISSUE	IG	MG

Scale 1:40 - Lengths are in Metres.
0 0.5 1.0 1.5 2.0 2.5 3.0

Scale at A1: 1:40

Designed:	IG
Drafted:	IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	02-09-20

Drawing No: 5941 ENG EXTSEW 651 Rev. No: C