

CIVIL OPERATIONAL WORKS VANTAGE YATALA - STAGE 1

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DRAWING INDEX		
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STANDARD DRAWINGS			
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DS-010	F	IPWEA	ACCESS CHAMBER – STORMWATER ACCESS CHAMBER DETAILS – 1050 TO 2100 DIA
DS-015	C	IPWEA	ACCESS CHAMBER – MANHOLE FRAME – ROADWAY AND NON ROADWAY – 1050 TO 2100 DIA
DS-018	C	IPWEA	ACCESS CHAMBER – MANHOLE RISER DETAILS
DS-019	C	IPWEA	ACCESS CHAMBER – MANHOLE ROVER (ROADWAY)
DS-020	C	IPWEA	ACCESS CHAMBER – MANHOLE ROVER (NON ROADWAY)
DS-021	C	IPWEA	ACCESS CHAMBER – MANHOLE COVER CONCRETE INFILL (PEDESTRIAN TRAFFIC) 1050 TO 2100 DIA
DS-030	F	IPWEA	EXCAVATION, BEDDING & BACKFILL – RIGID & FLEXIBLE DRAINAGE PIPES
DS-031	D	IPWEA	EXCAVATION, BEDDING & BACKFILL PRECAST – BOX CULVERTS
DS-040	E	IPWEA	SEDIMENT CONTROL – SEDIMENT CONTROL DEVICES – SEDIMENT FENCE, ENTRY/EXIT SEDIMENT TRAP
DS-041	E	IPWEA	SEDIMENT CONTROL – SEDIMENT CONTROL DEVICES – KERB AND FIELD INLET, CHECK DAMS & STRAW BALES
DS-050	E	IPWEA	DRAINAGE PITS – FIELD INLET TYPE 1 AND TYPE 2
DS-061	B	IPWEA	DRAINAGE PITS – KERB INLET – PRECAST LINTEL DETAILS
DS-062	D	IPWEA	DRAINAGE PITS – KERB INLET – GRATE AND FRAME
DS-063	C	IPWEA	DRAINAGE PITS – KERB INLET – LIP IN LINE – GENERAL ARRANGEMENT
DS-065	I	IPWEA	PATHWAYS – CONCRETE PATHWAY CONSTRUCTION DETAILS
DS-073	A	IPWEA	BIORETENTION DRAINAGE PROFILE – TYPE 3 – CONVENTIONAL
DS-075	A	IPWEA	LARGE BIORETENTION SEDIMENT FOREBAY
DS-076	A	IPWEA	BIORETENTION WEIR
DS-078	A	IPWEA	BIORETENTION STANDARD NOTES
GS-041	D	IPWEA	FENCING – CHAIN WIRE SECURITY FENCING
RS-049	E	IPWEA	VEHICLE CROSSING – RESIDENTIAL DRIVEWAYS – PLAN 1 OF 2
RS-050	G	IPWEA	VEHICLE CROSSING – RESIDENTIAL DRIVEWAYS – PLAN 2 OF 2
RS-080	F	IPWEA	KERB AND CHANNEL – PROFILES AND DIMENSIONS – INCLUDING EDGE RESTRAINTS, MEDIAN & CHANNEL
RS-090	J	IPWEA	KERB RAMPS – RAMPED PEDESTRIAN
RS-091	F	IPWEA	KERB RAMPS – RAMPED AND CUT THROUGH TREATMENTS – FOR PEDESTRIAN CROSSINGS, SLIP LANES AND MEDIANS
RS-094	F	IPWEA	KERB RAMPS – LOCATIONS AND CONFIGURATIONS
RS-130	F	IPWEA	ROAD FURNITURE – STREET NAME SIGN AND LOCATION (FINGERBOARD)
RS-131	G	IPWEA	ROAD FURNITURE – TRAFFIC SIGN INSTALLATION DETAILS
RS-140	F	IPWEA	SUBSOIL DRAINS – DETAILS AND LOCATION
RS-142	F	IPWEA	SUBSOIL DRAINS – ACCESS POINTS
SDI033	K	DTMR	KERB AND CHANNEL
SDI304	N	DTMR	PIPE CULVERTS – WINGWALLS, HEADWALLS AND APRON FOR PIPE DIA 750 TO 2400
02-003	2	CoGC	TYPICAL CROSS SECTIONS – COLLECTOR STREETS – PLAN 2 OF 2
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02-601	I	CoGC	NEW ROADS – SERVICE CONDUIT CROSSINGS
02-602	I	CoGC	ROAD CROSSING – TRENCH RESTORATION – FLEXIBLE PAVEMENTS
03-008	I	CoGC	FIELD INLET AND INTER-ALLOTMENT DRAINAGE PIT
03-101	I	CoGC	STORMWATER ACCESS CHAMBER 1050 DIA TO 1500 DIA
03-102	I	CoGC	STORMWATER ACCESS CHAMBER 1050 DIA TO 1500 DIA ROOF SLABS
03-201	I	CoGC	EXCAVATION AND BEDDING OF CONCRETE STORMWATER PIPES
05-014	I	CoGC	CHAIN WIRE FENCING – 1.8m HIGH
SEQ-SPS-1602-I	C	SEQ	RISING MAIN SCOUR/ DRAIN ARRANGEMENT
SEQ-SPS-1606-I	B	SEQ	AUTOMATIC GAS RELEASE VALVE



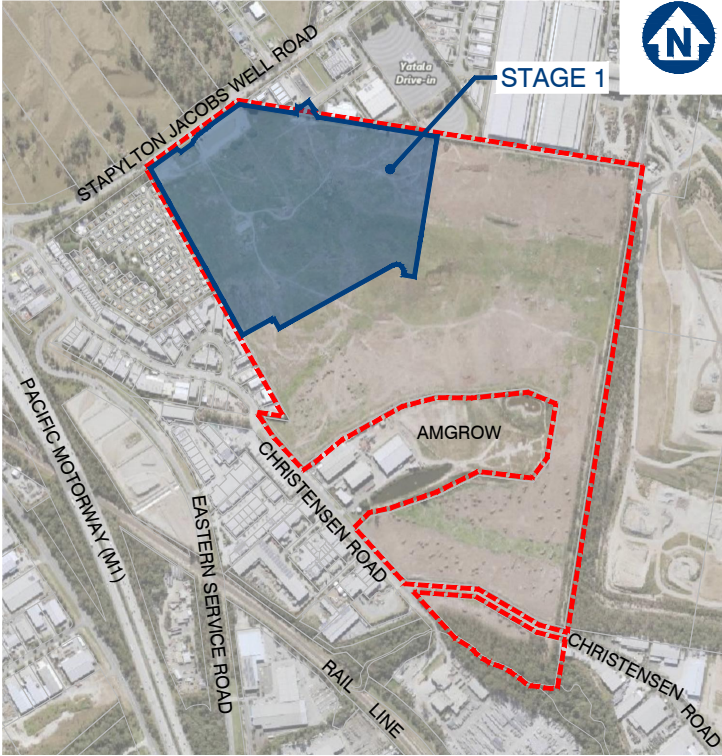
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STAGE 1

LOCALITY PLAN

SCALE 1: 8000 (A1)



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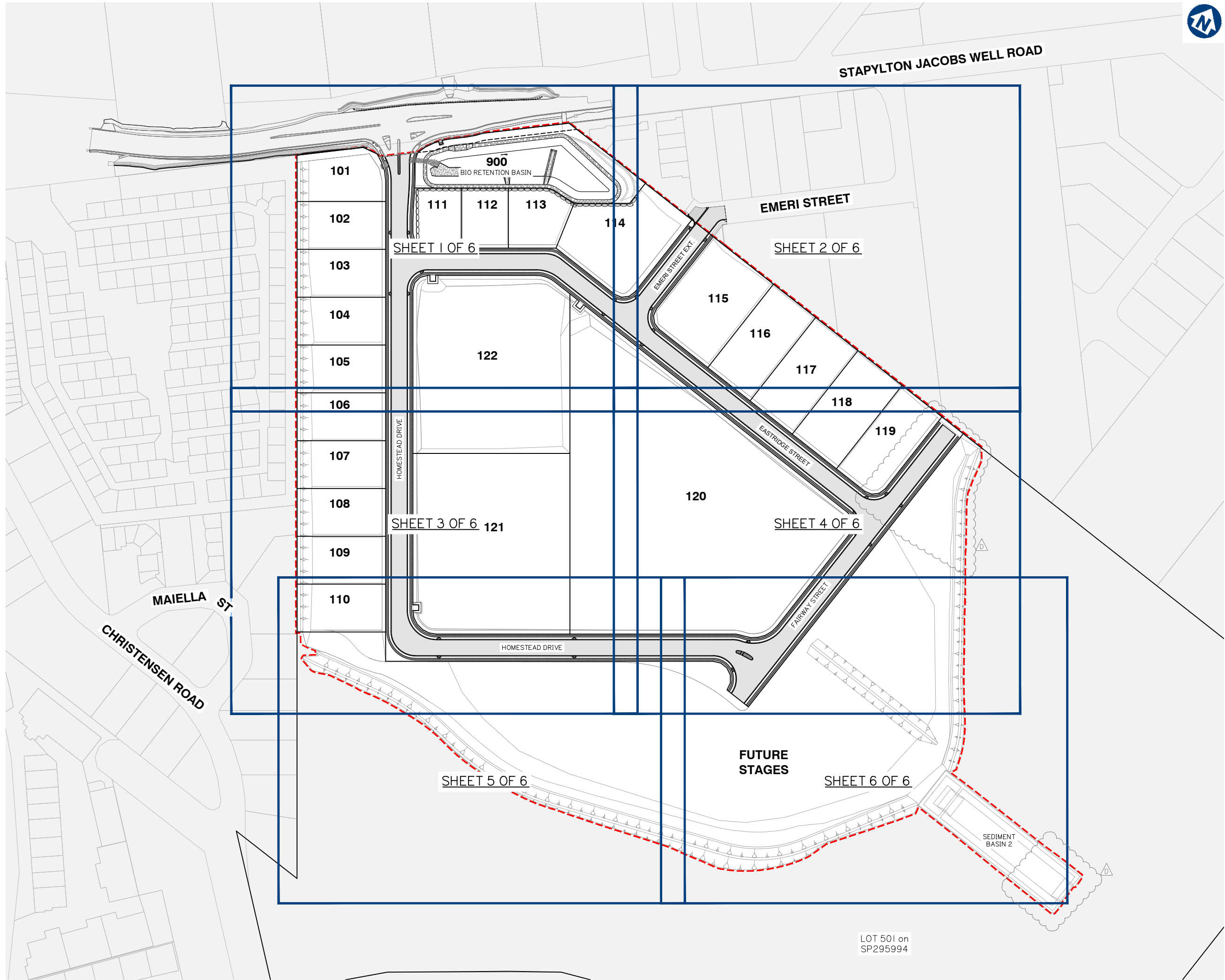
FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

SITE ADDRESS

60 STAPYLTON JACOBS WELL ROAD
STAPYLTON QLD 4207

DWG No. 594I ENG OPWI 001 – REV H

APRIL 2021



Client:



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Project:

VANTAGE YATALA
STAGE 1

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DRAWING TITLE

KEY PLAN LAYOUT

Issue	Date	Description	DRN	CHK
D	27-04-2021	AMENDMENT TO FAIRWAY STREET DESIGN	IG	MG
C	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG
C	02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG
B	12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG
A	01-05-2020	ORIGINAL ISSUE	BA	MG

SCALE IN METRES



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1:3000 (HALF SIZE A3)

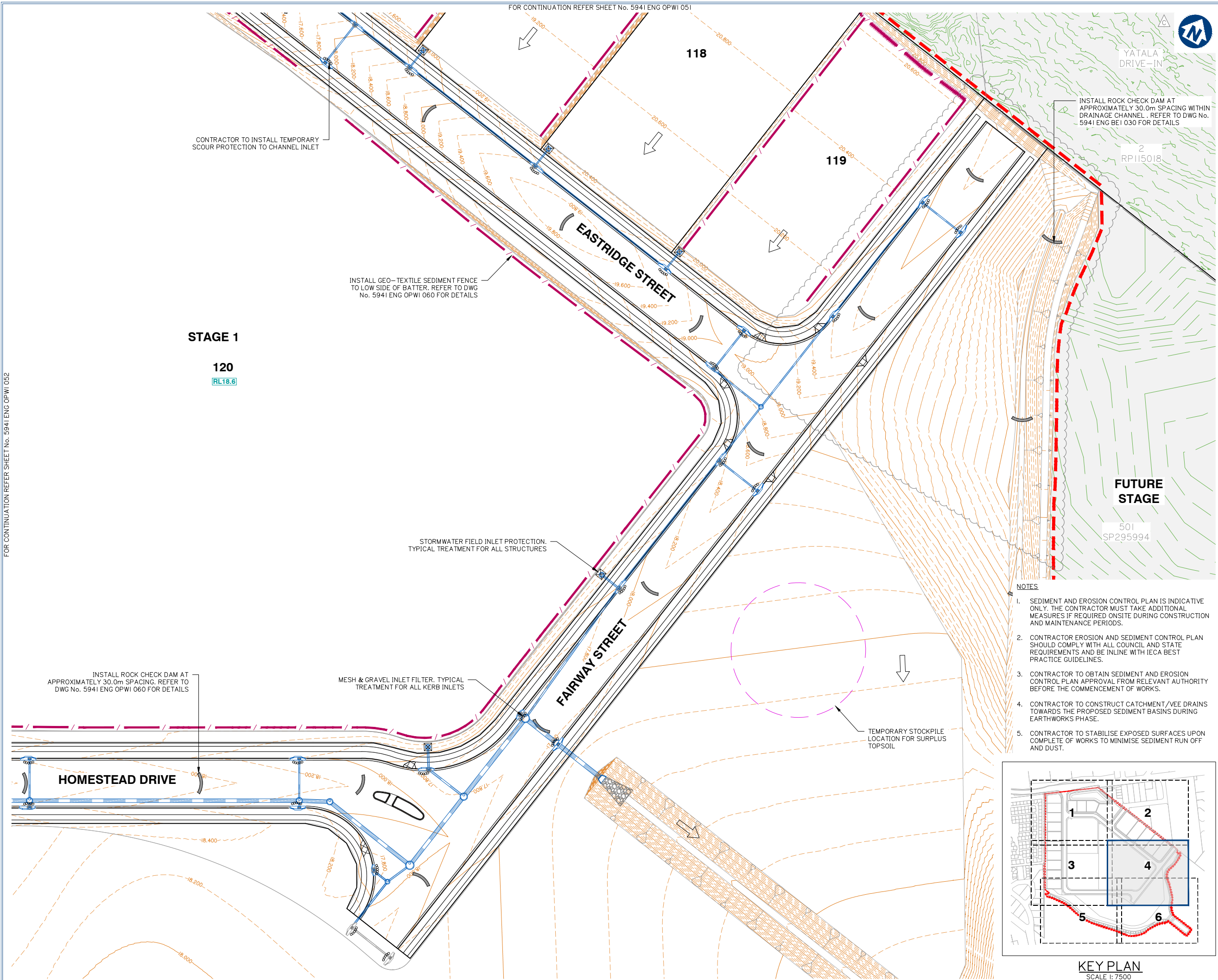
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Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	27-04-2021

Drawing No:
5941 ENG OPW1 006

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FOR CONTINUATION REFER SHEET No. 5941 ENG OPW1 052



SEDIMENT AND EROSION CONTROL PLAN SHEET 4 OF 6

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VANTAGE YATALA
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DRAWING TITLE
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 4 OF 6

Issue	Date	Description	BA	MG	DRN	CHK
D	27-04-2021	AMENDMENT TO FAIRWAY STREET DESIGN	IG	MG		
C	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG		
C	02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG		
B	12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG		
A	01-05-2020	ORIGINAL ISSUE	BA	MG		

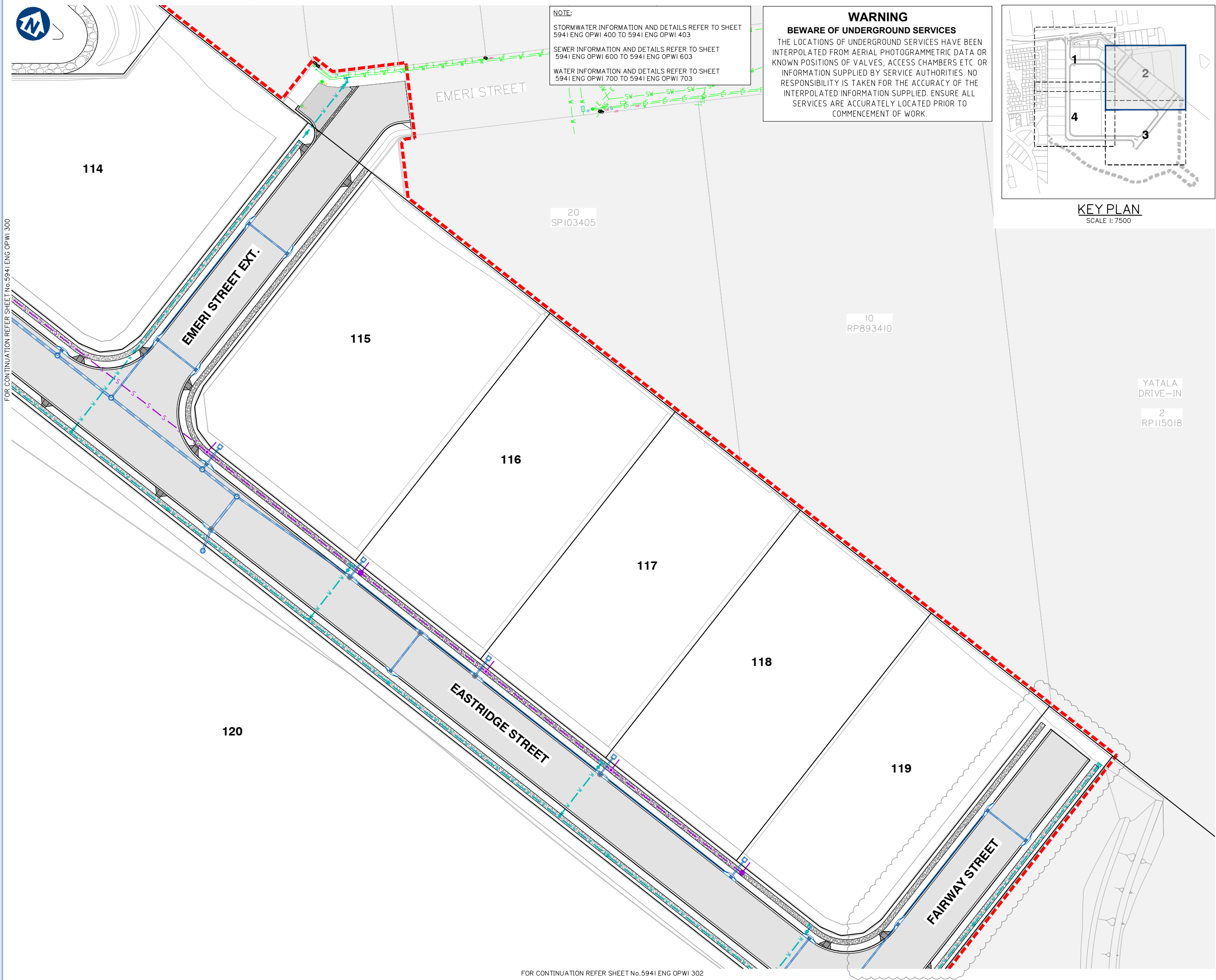
SCALE IN METRES

0 10 20 30 40 50
1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

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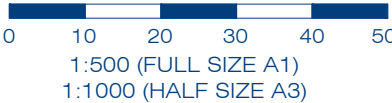
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DRAWING TITLE

OVERALL SERVICES LAYOUT
PLAN SHEET 2 OF 4

Issue	Date	Description	DRN	CHK
D	27-04-2021	AMENDMENT TO FAIRWAY STREET DESIGN	IG	MG
C	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG
C	02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG
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SCALE IN METRES

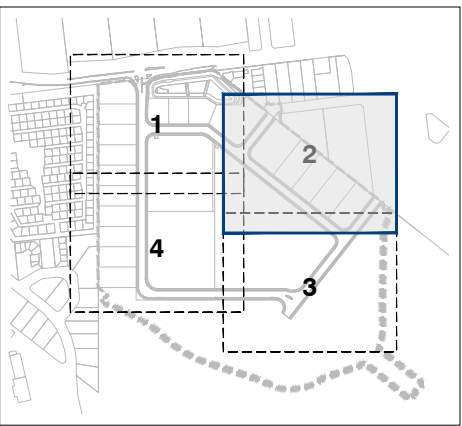


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Drafted:	BA
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VANTAGE YATALA
STAGE 1

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DRAWING TITLE
ROADWORKS AND
DRAINAGE LAYOUT PLAN
SHEET 2 OF 4

Issue	Date	Description	IG	MG
D	27-04-2021	AMENDMENT TO FAIRWAY STREET DESIGN	IG	MG
C	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG
C	02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG
B	12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG
A	01-05-2020	ORIGINAL ISSUE	BA	MG

SCALE IN METRES



1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

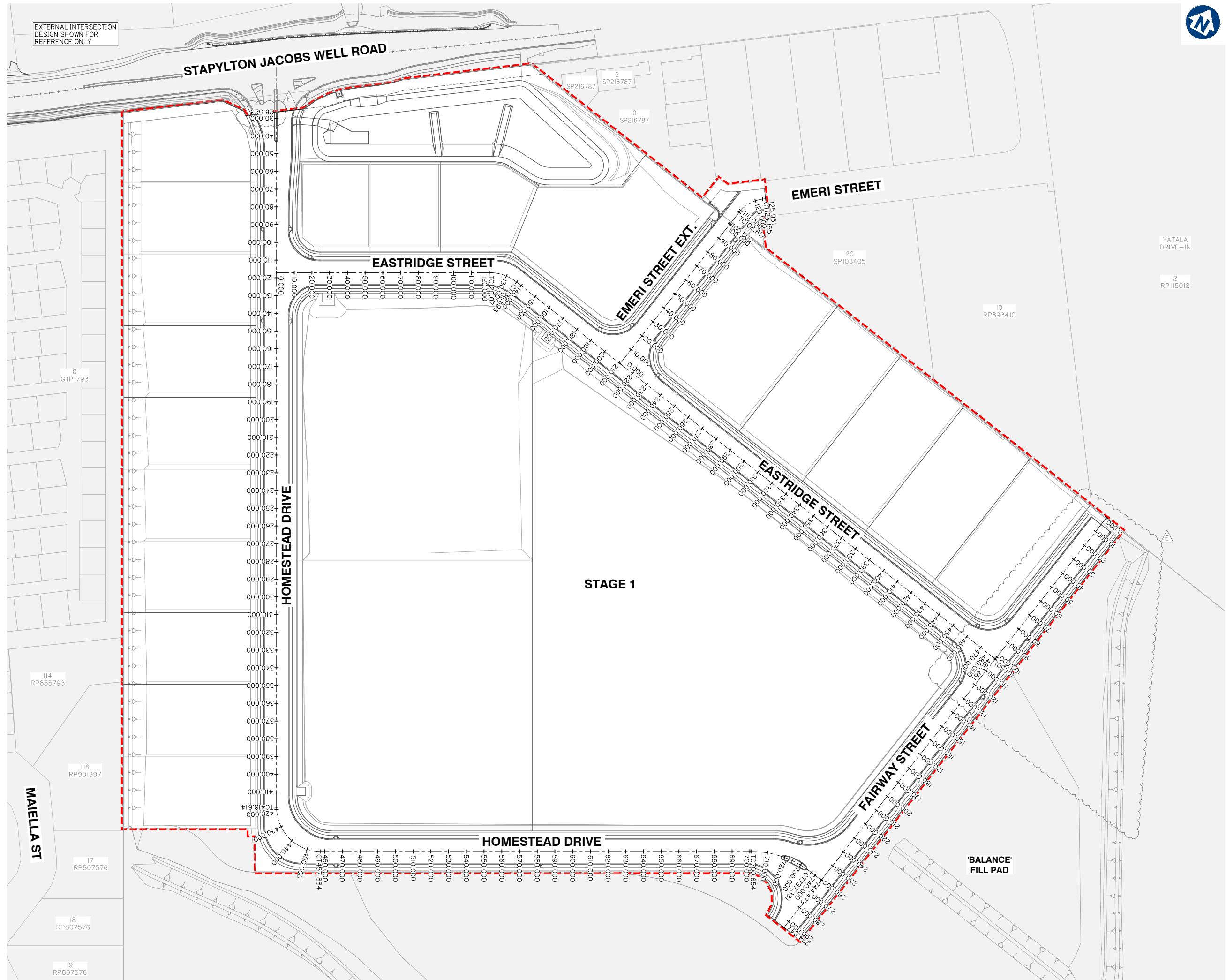
Scale at A1: 1:500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	27-04-2021

Drawing No:
5941 ENG OPW1 401

Rev. No:
D

FOR CONTINUATION REFER SHEET No.5941 ENG OPW1 402
ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 2 OF 4



EXTERNAL INTERSECTION
DESIGN SHOWN FOR
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planning | environment | landscape | engineering | survey
T: 3807 3333 | F: 3287 5461 | www.gassman.com.au
Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beerleigh 4207

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour interval: -
PSM: -
RL: -

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DRAWING TITLE

CONTROL LINE LAYOUT
PLAN

Rev	Date	Description	By	CHK
B	22-08-2021	AMENDMENT TO STAGE 1 DESIGN	BA	MG
C	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG
C	02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG
B	12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG
A	01-05-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES



1:1000 (FULL SIZE A1)
1:2000 (HALF SIZE A3)

Scale at A1: 1:1000

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	27-04-2021

Drawing No: 5941 ENG OPW1 420 Rev. No: E

HOMESTEAD DRIVE – CONTROL LINE SETOUT TABLE								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2186.394	7037.296	7.396	151°00'47.03"			
	10.000	2191.240	7028.549	7.091	151°00'47.03"			
	20.000	2196.086	7019.801	6.930	151°00'47.03"			
	26.523	2199.247	7014.095	7.151	151°00'47.03"			
	30.000	2200.932	7011.054	7.359	151°00'47.03"			
	40.000	2205.778	7002.307	7.947	151°00'47.03"			
	50.000	2210.625	6993.559	8.482	151°00'47.03"			
	60.000	2215.471	6984.812	8.961	151°00'47.03"			
	70.000	2220.317	6976.065	9.395	151°00'47.03"			
	80.000	2225.163	6967.317	9.824	151°00'47.03"			
	90.000	2230.009	6958.570	10.217	151°00'47.03"			
	100.000	2234.855	6949.823	10.558	151°00'47.03"			
	110.000	2239.701	6941.076	10.860	151°00'47.03"			
	120.000	2244.547	6932.328	11.161	151°00'47.03"			
	130.000	2249.393	6923.581	11.527	151°00'47.03"			
	140.000	2254.239	6914.834	12.013	151°00'47.03"			
	150.000	2259.086	6906.086	12.600	151°00'47.03"			
	160.000	2263.932	6897.339	13.200	151°00'47.03"			
	170.000	2268.778	6888.592	13.800	151°00'47.03"			
	180.000	2273.624	6879.844	14.401	151°00'47.03"			
	190.000	2278.470	6871.097	15.001	151°00'47.03"			
	200.000	2283.316	6862.350	15.601	151°00'47.03"			
	210.000	2288.162	6853.603	16.201	151°00'47.03"			
	220.000	2293.008	6844.855	16.754	151°00'47.03"			
	230.000	2297.854	6836.108	17.222	151°00'47.03"			
	240.000	2302.700	6827.361	17.604	151°00'47.03"			
	250.000	2307.547	6818.613	17.913	151°00'47.03"			
	260.000	2312.393	6809.866	18.212	151°00'47.03"			
	270.000	2317.239	6801.119	18.460	151°00'47.03"			
	280.000	2322.085	6792.371	18.624	151°00'47.03"			
	290.000	2326.931	6783.624	18.723	151°00'47.03"			
	300.000	2331.777	6774.877	18.815	151°00'47.03"			
	310.000	2336.623	6766.129	18.907	151°00'47.03"			
	320.000	2341.469	6757.382	19.000	151°00'47.03"			
	330.000	2346.315	6748.635	19.092	151°00'47.03"			
	340.000	2351.161	6739.888	19.185	151°00'47.03"			
	350.000	2356.008	6731.140	19.277	151°00'47.03"			
	360.000	2360.854	6722.393	19.370	151°00'47.03"			
	370.000	2365.700	6713.646	19.462	151°00'47.03"			
	380.000	2370.546	6704.898	19.554	151°00'47.03"			
	390.000	2375.392	6696.151	19.636	151°00'47.03"			
	400.000	2380.238	6687.404	19.702	151°00'47.03"			
	410.000	2385.084	6678.656	19.753	151°00'47.03"			
TC	418.614	2389.259	6671.122	19.784	151°00'47.03"			
	420.000	2389.964	6669.928	19.788	147°50'11.49"			
	430.000	2396.817	6662.738	19.807	124°55'05.57"			
IP 2	438.249	2401.374	6649.253	19.811		R = -25.000	39.270	89°59'59.86"
	440.000	2405.929	6658.783	19.811	101°59'59.65"			
	450.000	2415.862	6658.689	19.799	79°04'53.73"			
CT	457.884	2423.242	6661.369	19.778	61°00'47.17"			
	460.000	2425.093	6662.394	19.771	61°00'47.17"			
	470.000	2433.840	6667.240	19.728	61°00'47.17"			
	480.000	2442.588	6672.086	19.669	61°00'47.17"			
	490.000	2451.335	6676.932	19.606	61°00'47.17"			
	500.000	2460.082	6681.778	19.542	61°00'47.17"			
	510.000	2468.830	6686.625	19.478	61°00'47.17"			
	520.000	2477.577	6691.471	19.414	61°00'47.17"			
	530.000	2486.324	6696.317	19.350	61°00'47.17"			
	540.000	2495.072	6701.163	19.287	61°00'47.17"			
	550.000	2503.819	6706.009	19.223	61°00'47.17"			
	560.000	2512.566	6710.855	19.159	61°00'47.17"			
	570.000	2521.314	6715.701	19.095	61°00'47.17"			
	580.000	2530.061	6720.547	19.031	61°00'47.17"			
	590.000	2538.808	6725.393	18.968	61°00'47.17"			
	600.000	2547.555	6730.239	18.904	61°00'47.17"			
	610.000	2556.303	6735.085	18.840	61°00'47.17"			
	620.000	2565.050	6739.932	18.776	61°00'47.17"			
	630.000	2573.797	6744.778	18.712	61°00'47.17"			
	640.000	2582.545	6749.624	18.648	61°00'47.17"			
	650.000	2591.292	6754.470	18.585	61°00'47.17"			
	660.000	2600.039	6759.316	18.521	61°00'47.17"			
	670.000	2608.787	6764.162	18.457	61°00'47.17"			
	680.000	2617.534	6769.008	18.393	61°00'47.17"			
	690.000	2626.281	6773.854	18.330	61°00'47.17"			

HOMESTEAD DRIVE – CONTROL LINE SETOUT TABLE (CONT.)								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
	700.000	2635.028	6778.700	18.267	61°00'47.17"			
TC	700.654	2635.601	6779.017	18.263	61°00'47.17"			
	710.000	2644.120	6782.832	18.205	70°44'55.86"			
IP 3	718.993	2652.264	6788.249	18.149		R = 55.000	36.676	38°12'26.65"
	720.000	2653.808	6785.255	18.143	81°09'58.55"			
	730.000	2663.774	6785.886	18.081	91°35'01.24"			
CT	737.331	2671.067	6785.197	18.035	99°13'13.83"			
	740.000	2673.702	6784.769	18.019	99°13'13.83"			
IP 4	744.473	2678.117	6784.052	17.991	99°13'13.83"			

EASTRIDGE STREET – CONTROL LINE SETOUT TABLE								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2243.127	6934.892	11.072	61°00'44.11"			
	10.000	2251.874	6939.738	10.928	61°00'44.11"			
	20.000	2260.622	6944.584	10.805	61°00'44.11"			
	30.000	2269.369	6949.430	10.810	61°00'44.11"			
	40.000	2278.116	6954.276	10.879	61°00'44.11"			
	50.000	2286.863	6959.123	10.948	61°00'44.11"			
	60.000	2295.611	6963.969	11.018	61°00'44.11"			
	70.000	2304.358	6968.815	11.087	61°00'44.11"			
	80.000	2313.105	6973.661	11.191	61°00'44.11"			
	90.000	2321.852	6978.508	11.345	61°00'44.11"			
	100.000	2330.599	6983.354	11.550	61°00'44.11"			
	110.000	2339.347	6988.200	11.807	61°00'44.11"			
	120.000	2348.094	6993.046	12.102	61°00'44.11"			
TC	120.021	2348.113	6993.057	12.103	61°00'44.11"			
IP 2	128.357	2355.687	6997.253	12.351		R = 25.000	16.672	38°12'31.40"
	130.000	2357.564	6996.046	12.400	83°52'53.88"			
CT	136.693	2364.234	6995.865	12.599	99°13'15.51"			
	140.000	2367.498	6995.336	12.698	99°13'15.51"			
	150.000	2377.369	6993.733	12.996	99°13'15.51"			
	160.000	2387.240	6992.131	13.294	99°13'15.51"			
	170.000	2397.111	6990.528	13.592	99°13'15.51"			
	180.000	2406.982	6988.926	13.890	99°13'15.51"			
	190.000	2416.852	6987.323	14.189	99°13'15.51"			
	200.000	2426.723	6985.721	14.487	99°13'15.51"			
	210.000	2436.594	6984.119	14.787	99°13'15.51"			
	220.000	2446.465	6982.516	15.087	99°13'15.51"			
	230.000	2456.335	6980.914	15.391	99°13'15.51"			
	240.000	2466.206	6979.311	15.700	99°13'15.51"			
	250.000	2476.077	6977.709	16.014	99°13'15.51"			
	260.000	2485.948	6976.106	16.331	99°13'15.51"			
	270.000	2495.819	6974.504	16.647	99°13'15.51"			
	280.000	2505.689	6972.902	16.964	99°13'15.51"			
	290.000	2515.560	6971.299	17.280	99°13'15.51"			
	300.000	2525.431	6969.697	17.597	99°13'15.51"			
	310.000	2535.302	6968.094	17.913	99°13'15.51"			
	320.000	2545.172	6966.492	18.230	99°13'15.51"			
	330.000	2555.043	6964.889	18.547	99°13'15.51"			
	340.000	2564.914	6963.287	18.863	99°13'15.51"			
	350.000	2574.785	6961.685	19.180	99°13'15.51"			
	360.000	2584.656	6960.082	19.471	99°13'15.51"			
	370.000	2594.526	6958.480	19.692	99°13'15.51"			
	380.000	2604.397	6956.877	19.843	99°13'15.51"			
	390.000	2614.268	6955.275	19.924	99°13'15.51"			
	400.000	2624.139	6953.672	19.934	99°13'15.51"			
	410.000	2634.009	6952.070	19.873	99°13'15.51"			
	420.000	2643.880	6950.468	19.743	99°13'15.51"			
	430.000	2653.751	6948.865	19.542	99°13'15.51"			
	440.000	2663.622	6947.263	19.274	99°13'15.51"			
	450.000	2673.493	6945.660	19.035	99°13'15.51"			
	460.000	2683.363	6944.058	19.012	99°13'15.51"			
	470.000	2693.234	6942.455	19.084	99°13'15.51"			
	480.000	2703.105	6940.853	19.156	99°13'15.51"			
IP 3	480.461	2703.560	6940.779	19.160	99°13'15.51"			

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot:

Plan:

Local Authority:

Level Datum:

Meridian:

Contour interval:

PSM:

RL:

501

SP295994

CITY OF GOLD COAST
COUNCIL

AHD

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DRAWING TITLE

ROAD CONTROL LINE SETOUT
TABLES SHEET 2 OF 2

D	27-04-2021	AMENDMENT TO FAIRWAY STREET DESIGN	IG	MG	
C	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG	
C	02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG	
B	12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG	
A	01-05-2020	ORIGINAL ISSUE	BA	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

NOT APPLICABLE

Scale at A1: NOT APPLICABLE

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	27-04-2021

Drawing No: 5941 ENG OPW1 422

Rev. No: D

FAIRWAY STREET – CONTROL LINE SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	-13.000	2721.908	7053.800	20.266	189°13'15.46"
	-10.000	2721.427	7050.839	20.299	189°13'15.46"
	0.000	2719.825	7040.968	20.346	189°13'15.46"
	5.000	2719.023	7036.033	20.334	189°13'15.46"
	10.000	2718.222	7031.097	20.302	189°13'15.46"
	20.000	2716.620	7021.226	20.232	189°13'15.46"
	30.000	2715.017	7011.356	20.162	189°13'15.46"
	40.000	2713.415	7001.485	20.092	189°13'15.46"
	50.000	2711.813	6991.614	20.022	189°13'15.46"
	60.000	2710.210	6981.743	19.952	189°13'15.46"
	70.000	2708.608	6971.873	19.871	189°13'15.46"
	80.000	2707.005	6962.002	19.717	189°13'15.46"
	90.000	2705.403	6952.131	19.478	189°13'15.46"
	100.000	2703.800	6942.260	19.198	189°13'15.46"
IP 2	101.500	2703.560	6940.779	19.156	
	110.000	2702.198	6932.389	18.918	189°13'15.11"
	120.000	2700.596	6922.519	18.681	189°13'15.11"
	130.000	2698.993	6912.648	18.517	189°13'15.11"
	140.000	2697.391	6902.777	18.413	189°13'15.11"
	150.000	2695.788	6892.906	18.315	189°13'15.11"
	160.000	2694.186	6883.036	18.217	189°13'15.11"
	170.000	2692.584	6873.165	18.119	189°13'15.11"
	180.000	2690.981	6863.294	18.021	189°13'15.11"
	190.000	2689.379	6853.423	17.923	189°13'15.11"
	200.000	2687.776	6843.552	17.832	189°13'15.11"
	210.000	2686.174	6833.682	17.774	189°13'15.11"
	220.000	2684.572	6823.811	17.754	189°13'15.11"
	230.000	2682.969	6813.940	17.770	189°13'15.11"
	240.000	2681.367	6804.069	17.822	189°13'15.11"
	250.000	2679.764	6794.199	17.904	189°13'15.11"
	260.000	2678.162	6784.328	17.989	189°13'15.11"
	270.000	2676.560	6774.457	18.074	189°13'15.11"
	280.000	2674.957	6764.586	18.158	189°13'15.11"
	290.000	2673.355	6754.715	18.243	189°13'15.11"
	294.247	2672.674	6750.523	18.279	189°13'15.46"
	300.000	2671.752	6744.845	18.328	189°13'15.11"

EMERI STREET EXTENSION – CONTROL LINE SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2437.631	6983.950		9°13'15.46"			
	10.000	2439.234	6993.821	14.689	9°13'15.46"			
	20.000	2440.836	7003.692	14.560	9°13'15.46"			
	30.000	2442.438	7013.562	14.524	9°13'15.46"			
	40.000	2444.041	7023.433	14.799	9°13'15.46"			
	50.000	2445.643	7033.304	15.166	9°13'15.46"			
	60.000	2447.246	7043.175	15.534	9°13'15.46"			
	70.000	2448.848	7053.046	15.902	9°13'15.46"			
	80.000	2450.451	7062.916	16.270	9°13'15.46"			
	90.000	2452.053	7072.787	16.637	9°13'15.46"			
	100.000	2453.655	7082.658	16.922	9°13'15.46"			
IP 2	100.500	2453.735	7083.151	16.931				
TC	108.617	2455.036	7091.164	17.010	9°13'18.14"			
	110.000	2455.305	7092.520	17.010	13°10'58.86"			
IP 3	116.386	2456.348	7099.243	16.964		R = 20.000	15.538	44°30'49.22"
	120.000	2459.875	7101.297	16.902	41°49'51.26"			
CT	124.155	2462.948	7104.085	16.800	53°44'07.36"			
IP 4	125.961	2464.403	7105.153	16.745	53°44'07.36"			

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
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RL: -

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DRAWING TITLE
ROAD CROSS SECTIONS
- FAIRWAY STREET
SHEET 2 OF 6

D	27-04-2021	AMENDMENT TO FAIRWAY STREET DESIGN	IG	MG
C	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG
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Issue	Date	Description	DRN	CHK

SCALE IN METRES

Scale 1:100 - Lengths are in Metres.
0 1 2 3 4 5 6 7 8

Scale at A1: 1:100

Designed: IG

Drafted: BA

Approved: MG

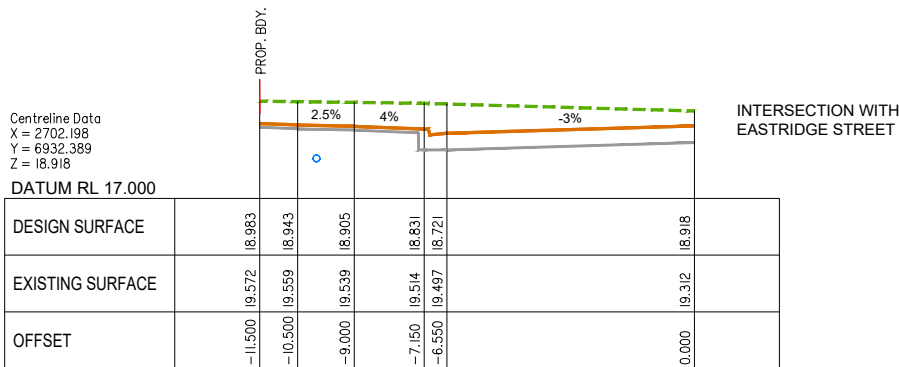
RPEQ: 16939

Signed: 

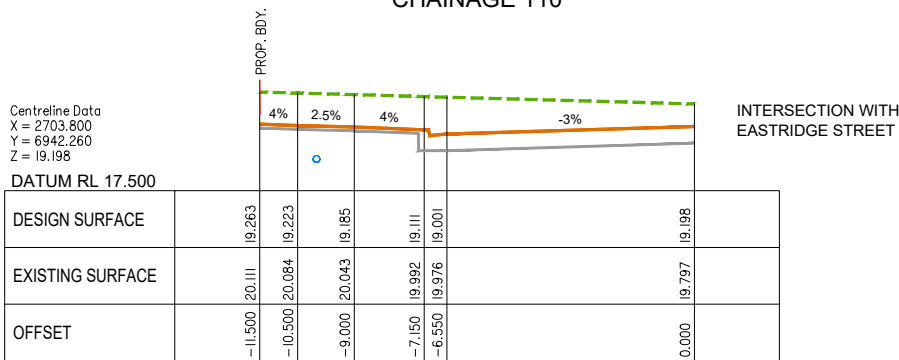
Date: 27-04-2021

Drawing No: 5941 ENG OPW1 473

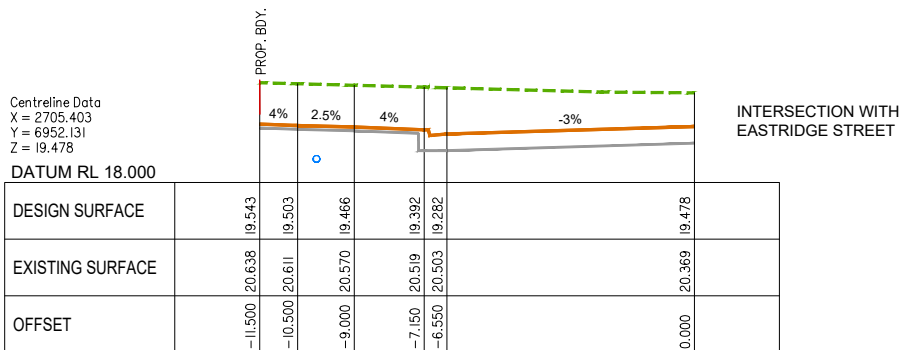
Rev. No: D



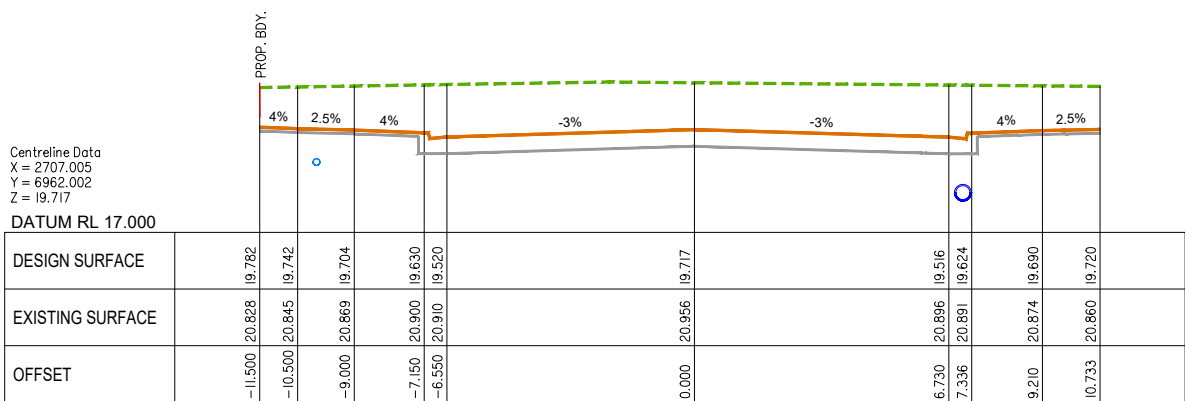
CHAINAGE 110



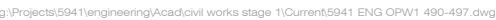
CHAINAGE 100



CHAINAGE 90



CHAINAGE 80



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RI: -

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DRAWING TITLE

ROAD INTERSECTION DETAILS
SHEET 7 OF 8

D	27-04-2021	AMENDMENT TO FAIRWAY STREET DESIGN	JG	MG
C	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG
C	02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG
B	12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG
A	01-05-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES



1:100 (FULL SIZE A1)
1:200 (HALF SIZE A3)

Scale at A1:

1:100

Designed:

BA

Approved:

MG

FILED:

16939

M. J. Kelly

Date:

27-04-2021

Drawing No:

Rev. No:

5941 ENG OPW1 496

2

g:\Projects\5941\engineering\Acad\civil works stage 1\Current\5941 ENG OPW1 500.dwg



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Client:					
 FRASERS PROPERTY FRASERS PROPERTY (AUSTRALIA) PTY. LTD.					
Project: VANTAGE YATALA STAGE 1					
Site Address: 60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207					
THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR					
RPD: Lot: 501 Plan: SP295994 Local Authority: CITY OF GOLD COAST COUNCIL Level Datum: AHD Meridian: - Contour Interval: - PSM: - RL: -					
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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES					
DRAWING TITLE STORMWATER DRAINAGE CATCHMENT PLAN					
B	22-04-2021	AMENDMENT MURRAY STREET DESIGN	BA	MG	
C	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG	
C	02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG	
B	12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG	
A	01-05-2020	ORIGINAL ISSUE	BA	MG	
Issue	Date	Description	DRN	CHK	
SCALE IN METRES					
0306090120150 1:1500 (FULL SIZE A1) 1:3000 (HALF SIZE A3)					
Scale at A1:		1:1500			
Designed:		IG			
Drafted:		BA			
Approved:		MG			
RPEQ:		16939			
Signed:					
Date:		27-04-2021			
Drawing No:			Rev. No:		
5941 ENG OPW1 500			E		

STRUCTURE DESCRIPTION	1/3
STD. IPWEAQ MANHOLE 600x600 GRATE SET WITH CONVEYOR SLAB 1200mm DIA	
DRAINWAY SYSTEM ON GRADE, L.I.L 2.4m KERB INLET, CLASS (D) HINGED BIKESAFE GALV. GRATE	2/3
ON TOP OF ROCLA (OR EQUIV.) CPO PIT SYSTEM CIRCULAR CHAMBER	1/2
STD. IPWEAQ ACCESS CHAMBER 1500mm DIA	

SHAFT/PIT BASE

IN FAVOURABLE GROUND
CONDITIONS PROVIDE
PRECAST CONCRETE
ROCLA CPO PIT BASE (OR
EQUIVALENT) TO SUIT
SPECIFIED DIAMETER OF
SHAFT UP TO 1200 DIA.

ALTERNATELY (OR
EXCEEDING 1200 DIA)
PROVIDE 250mm THICK
CAST IN-SITU
REINFORCED CONCRETE
BASE, 2 LAYERS SL82
MESH ON 50MM THICK
BLINDING CONCRETE

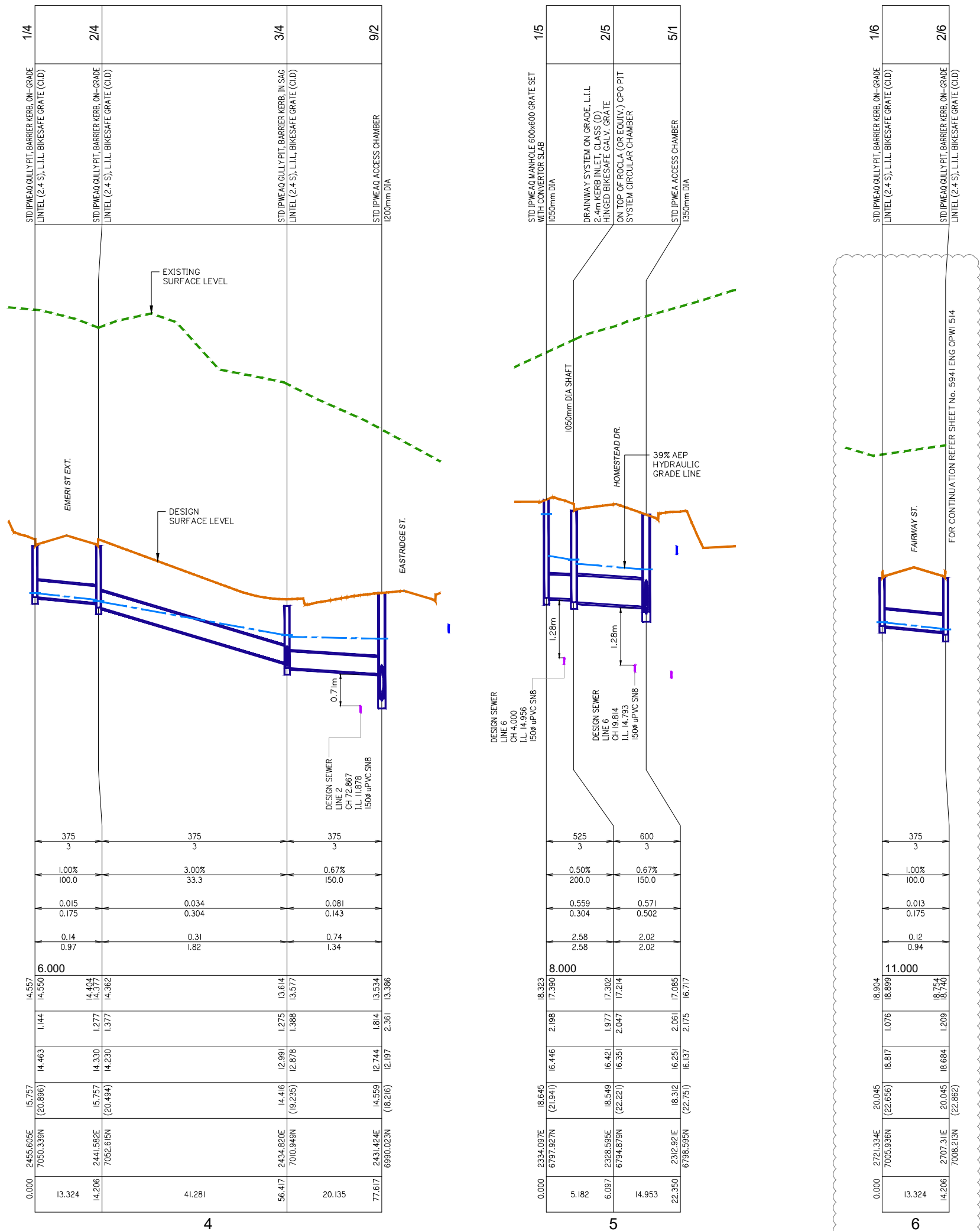
CONVERTER SLAB TABLE

SHAFT	OFFSET
I200	475
I350	550
I500	625
I800	775
I2100	925

NOTE: PROVIDE DRAINWAY
CONVERTER SLAB FOR CPO
PITS 1200Ø, 1500Ø, 1800Ø

PIPE SIZE (mm)		600	600
PIPE CLASS		3	3
PIPE GRADE (%)		0.50%	0.50%
PIPE SLOPE (1 in X)		200.0	200.0
PIPE FLOW (cumecs)		0.339	0.381
CAPACITY FLOW (cumecs)		0.434	0.434
FULL PIPE VELOCITY (m/s)		1.20	1.35
NORMAL DEPTH VELOCITY (m/s)		1.70	1.73
DATUM RL	1.000		
HGL ELEVATION (39.35% AEP)	12.783 12.562	12.544 12.469	12.427 12.294
DEPTH TO INVERT	2.691	1.997 2.077	2.217 2.355
INVERT LEVEL OF DRAIN	10.871	10.841 10.761	10.707 10.569
DESIGN (& EXISTING) SURFACE LEVEL	13.562 (13.599)	12.988 (13.379)	12.925 (13.488)
SETOUT COORDINATES (EASTING & NORTHING)	2381.944E 6979.820N	2378.870E 6986.469N	2380.779E 6996.245N
CHAINAGE	0.000 6.016	7.184	10.888 19.287

LINE 3



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Project:

VANTAGE YATALA STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

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Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL

Level Datum:

Meridian:
Contour Interval:
PSM:
RL:

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DRAWING TITLE
STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 4 OF 18

E	27-04-2021	AMENDMENT TO FAIRWAY STREET DESIGN	IG	M	
D	28-10-2020	ISSUED FOR CONSTRUCTION	BA	M	
C	10-09-2020	RESPONSE TO RF No. 4	BA	M	
B	02-09-2020	MINOR CHANGE TO STAGE 1	BA	M	
A	01-05-2020	ORIGINAL ISSUE	BA	M	
Issue	Date	Description	DRN	Ch	

SCALE IN METRES

Scale 1:500 - Lengths are in Metres

HORZ: 

Scale 1:50 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

Designed:	10
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Drafted:	BA
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Approved:	MG
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RPEQ:	16939
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Signed:

Date:	27-04-2021
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Drawing No:	Rev. No:
5941 ENG OPW1 513	E

STRUCTURE NAME	2/6	3/6	4/6	5/6	6/6	13/X2
STRUCTURE DESCRIPTION	STD IPWEAO GULLY PIT, BARRIER KERB, ON- GRADE LINTEL (2.4 S), L.I.L. BIKESAFE GRATE (C/D)	STD IPWEAO GULLY PIT, BARRIER KERB, ON- GRADE LINTEL (2.4 S), L.I.L. BIKESAFE GRATE (C/D)	STD IPWEAO ACCESS CHAMBER 1050mm DIA	DRAINWAY SYSTEM ON GRADE, L.I.L. 2.4m KERB INLET, CLASS (O) HINGED BIKESAFE GALV. GRATE ON TOP OF ROCLA (OR EQUIV.) CPO PIT SYSTEM CIRCULAR CHAMBER	DRAINWAY SYSTEM ON GRADE, L.I.L. 2.4m KERB INLET, CLASS (O) HINGED BIKESAFE GALV. GRATE ON TOP OF ROCLA (OR EQUIV.) CPO PIT SYSTEM CIRCULAR CHAMBER	STD IPWEAO ACCESS CHAMBER 2100mm DIA

SHAFT/PIT BASE

IN FAVOURABLE GROUND CONDITIONS PROVIDE PRECAST CONCRETE ROCLA CPO PIT BASE (OR EQUIVALENT) TO SUIT SPECIFIED DIAMETER OF SHAFT UP TO 1200 DIA.

ALTERNATELY (OR EXCEEDING 1200 DIA) PROVIDE 250mm THICK CAST IN-SITU REINFORCED CONCRETE BASE, 2 LAYERS SL82 MESH ON 50MM THICK BLINDING CONCRETE

CONVERTER SLAB TABLE

SHAFT	OFFSET
I200	475
I350	550
I500	625
I800	775
2100	925

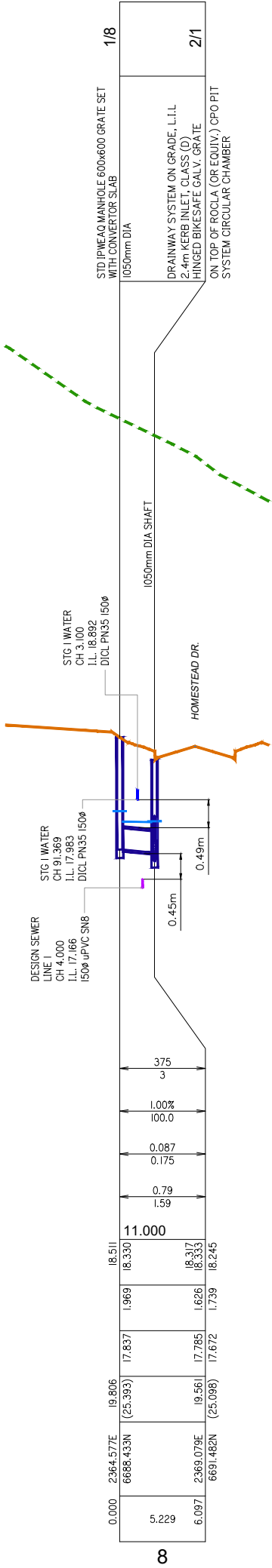
NOTE: PROVIDE DRAINWAY CONVERTER SLAB FOR CPO PITS 1200ø, 1500ø, 1800ø

PIPE SIZE (mm)	375	375	375	450	450
PIPE CLASS	3	3	3	3	3
PIPE GRADE (%)	1.000%	3.00%	2.00%	1.25%	1.00%
PIPE SLOPE (1 in X)	100.0	33.3	50.0	80.0	100.0
PIPE FLOW (cumecs)	0.024	0.037	0.084	0.137	0.256
CAPACITY FLOW (cumecs)	0.174	0.304	0.248	0.319	0.285
FULL PIPE VELOCITY (m/s)	0.22	0.33	0.76	0.85	1.61
NORMAL DEPTH VELOCITY (m/s)	1.11	1.86	2.03	1.92	2.03
DATUM RL	7.000				
HGL ELEVATION (39.35% AEP)	18.754 18.740	18.313 18.122	17.130 17.131	16.530 16.408	16.054 16.180
DEPTH TO INVERT	1.209 1.269	1.338 1.582	1.829 1.955	1.766 1.806	2.194 2.894
INVERT LEVEL OF DRAIN	18.684 18.624	18.219 17.975	17.016 16.890	16.520 16.500	15.933 15.853
DESIGN (& EXISTING) SURFACE LEVEL	20.045 (22.862)	19.707 (21.145)	18.845 (19.219)	18.456 (18.044)	17.989 (15.071)
SETOUT COORDINATES (EASTING & NORTHING)	2707.31E 7008.21N	2700.682E 6967.38N	2695.04E 6934.866N	2692.286E 6915.660N	2684.863E 6869.937N
CHAINAGE	14.206	40.436	55.572	88.513	154.292

LINE

6

STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 5 OF 18



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(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE
STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 5 OF 18

F	27-04-2021	AMENDMENT TO FAIRWAY STREET DESIGN	IG	MG
E	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG
D	10-09-2020	RESPONSE TO RFI No. 4	BA	MG
C	02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG
B	12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG
A	01-05-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

HORIZ: Scale 1:500 - Lengths are in Metres.

VERT: Scale 1:50 - Lengths are in Metres.

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	27-04-2021

Drawing No:
5941 ENG OPW1 514

Rev. No:
F

STRUCTURE DESCRIPTION	STRUCTURE NAME	
STD IP/WEAQ GULLY/T. BARRIER KERB, IN SAG JUNCT. (2.4 S), L.L.L. BIKESAFE GRATE (C/D)	1/40	
DRAINWAY SYSTEM ON GRADE, L.L.L. KERB, PIT CLASS (D) CHANGED BIKESAFE GULLY, GRATE ON TOP OF ROCLA (OR EQUIV.) CPO PIT SYSTEM CIRCULAR CHAMBER	2/40	
STD IP/WEAQ ACCESS CHAMBER	4/6	

SHAFT/PIT BASE

IN FAVOURABLE GROUND
CONDITIONS PROVIDE
PRECAST CONCRETE
ROCLA CPO PIT BASE (OR
EQUIVALENT) TO SUIT
SPECIFIED DIAMETER OF
SHAFT UP TO 1200 DIA.

ALTERNATELY (OR
EXCEEDING 1200 DIA)
PROVIDE 250mm THICK
CAST IN-SITU
REINFORCED CONCRETE
BASE, 2 LAYERS SL82
MESH ON 50MM THICK
BLINDING CONCRETE

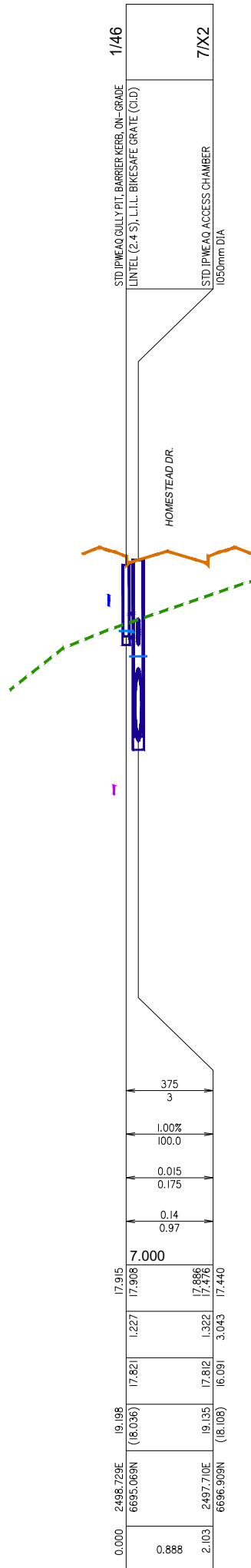
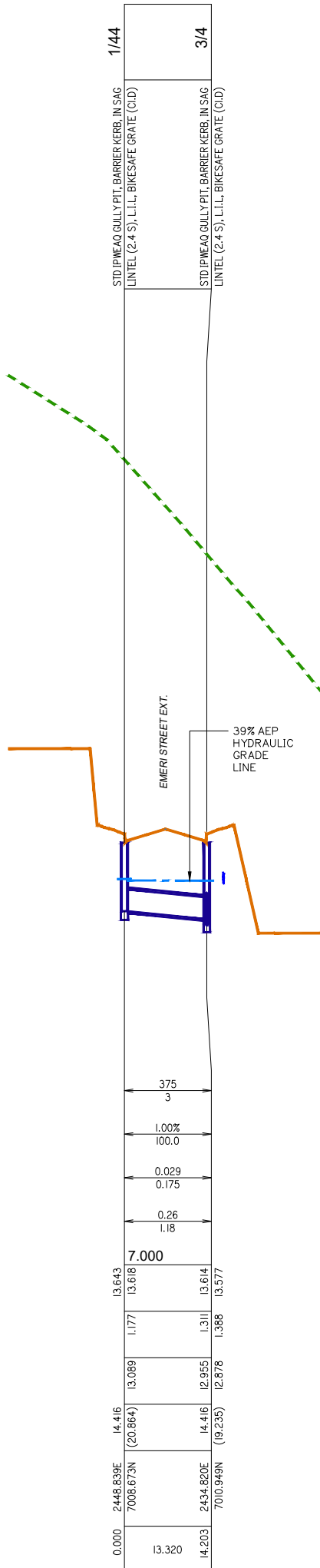
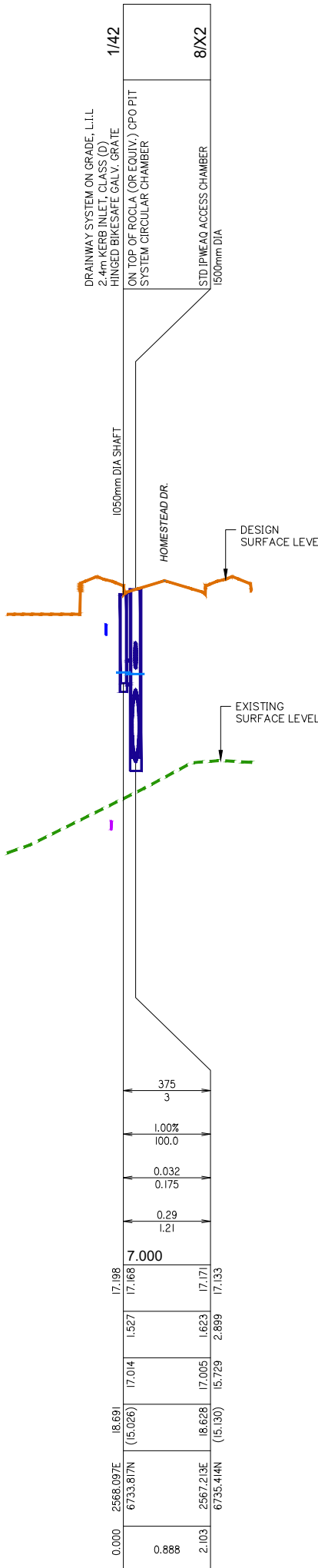
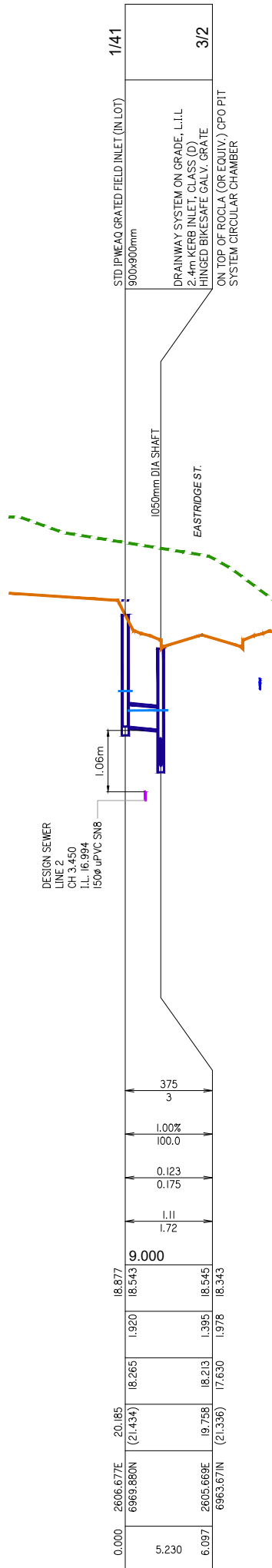
CONVERTER SLAB TABLE

SHAFT	OFFSET
1200	475
1350	550
1500	625
1800	775
2100	925

NOTE: PROVIDE DRAINWAY
CONVERTER SLAB FOR CPO
PITS 1200Ø, 1500Ø, 1800Ø

PIPE SIZE (mm)		375		375
PIPE CLASS		3		3
PIPE GRADE (%)		1.00%		1.00%
PIPE SLOPE (1 in X)		100.0		100.0
PIPE FLOW (cumecs)		0.024		0.049
CAPACITY FLOW (cumecs)		0.175		0.175
FULL PIPE VELOCITY (m/s)		0.22		0.44
NORMAL DEPTH VELOCITY (m/s)		1.12		1.36
DATUM RL		8.000		
HGL ELEVATION (39.35% AEP)	17.573 17.556		17.415 17.418 17.391	17.203 17.131
DEPTH TO INVERT	1.312	1.446	1.526	1.777
INVERT LEVEL OF DRAIN	17.445	17.311	17.231	17.068
DESIGN (& EXISTING) SURFACE LEVEL	18.907 2680.636E (20.006) 6951.744N	18.907 (19.161)		18.845 2695.404E
SETOUT COORDINATES (EASTING & NORTHING)		2676.375E 6937.841N		
CHAINAGE	0.000 13.404	14.286	16.293	31.569

LINE



Client:



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Project:

VANTAGE YATALA STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

Lot:	501
Plan:	SP295994
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

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DRAWING TITLE
STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 12 OF 18

F	27-04-2021	AMENDMENT TO FAIRWAY STREET DESIGN	IG	MG
E	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG
D	11-09-2020	RESPONSE TO IRII NO. 4	BA	MG
C	02-06-2020	MINOR CHANGE TO STAGE 1	BA	MG
B	12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG
A	01-05-2020	ORIGINAL ISSUE	BA	MG
Issue No.	Description			

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HORZ:  Scale 1:50 - Lengths are in Metres.

VERT:  Scale 1:50 - Lengths are in Metres.

Scale at A1:

AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	27-04-2021

Drawing No:	Rev. No:
5941 ENG OPW1 521	F

STRUCTURE NAME	1/55	2/55	12/X2
STRUCTURE DESCRIPTION	STD IP/MEAO MANHOLE 600x600 GRATE SET WITH CONVERTER SLAB 1050mm DIA	DRAINWAY SYSTEM ON GRADE, L.L.L 2.4m KERB INLET, CLASS (D) HINGED BIKESAFE GALV. GRATE ON TOP OF ROCLA (OR EQUIV.) CPO PIT SYSTEM CIRCULAR CHAMBER	STD IP/MEAO ACCESS CHAMBER 1500mm DIA

SHAFT/PIT BASE

IN FAVOURABLE GROUND CONDITIONS PROVIDE PRECAST CONCRETE ROCLA CPO PIT BASE (OR EQUIVALENT) TO SUIT SPECIFIED DIAMETER OF SHAFT UP TO 1200 DIA.

ALTERNATELY (OR EXCEEDING 1200 DIA) PROVIDE 250mm THICK CAST IN-SITU REINFORCED CONCRETE BASE, 2 LAYERS SL82 MESH ON 50MM THICK BLINDING CONCRETE

CONVERTER SLAB TABLE

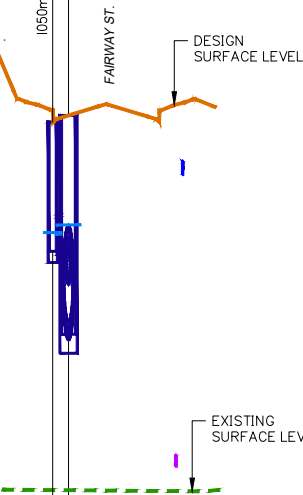
SHAFT	OFFSET
1200	475
1350	550
1500	625
1800	775
2100	925

NOTE: PROVIDE DRAINWAY CONVERTER SLAB FOR CPO PITS 1200Ø, 1500Ø, 1800Ø

PIPE SIZE (mm)	525	525
PIPE CLASS	3	3
PIPE GRADE (%)	1.00%	1.00%
PIPE SLOPE (1 in X)	100.0	100.0
PIPE FLOW (cumecs)	0.569	0.585
CAPACITY FLOW (cumecs)	0.430	0.430
FULL PIPE VELOCITY (m/s)	2.63	2.70
NORMAL DEPTH VELOCITY (m/s)	2.63	2.70
DATUM RL	5.000	
HGL ELEVATION (39.35% AEP)	17.672 16.781	16.692 16.697 16.346
DEPTH TO INVERT	2.646	2.113 2.214
INVERT LEVEL OF DRAIN	15.632	15.581 15.480
DESIGN (& EXISTING) SURFACE LEVEL	18.278 (12.159)	17.848 (12.051)
SETOUT COORDINATES (EASTING & NORTHING)	2659.241E 6803.910N	2662.538E 6798.414N
CHAINAGE	0.000 5.067	6.216 11.589

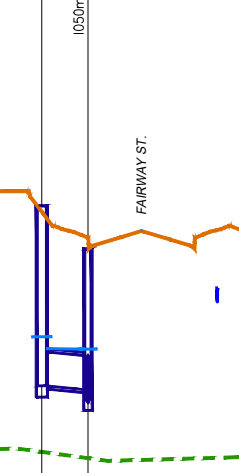
LINE 55

1/57	13/X2
DRAINWAY SYSTEM ON GRADE, L.L.L 2.4m KERB INLET, CLASS (D) HINGED BIKESAFE GALV. GRATE ON TOP OF ROCLA (OR EQUIV.) CPO PIT SYSTEM CIRCULAR CHAMBER	STD IP/MEAO ACCESS CHAMBER 1800mm DIA



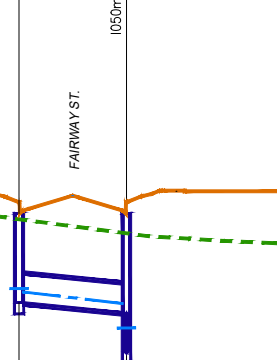
57

1/58	6/6
STD IP/MEAO MANHOLE 600x600 GRATE SET WITH CONVERTER SLAB 1050mm DIA	DRAINWAY SYSTEM ON GRADE, L.L.L 2.4m KERB INLET, CLASS (D) HINGED BIKESAFE GALV. GRATE ON TOP OF ROCLA (OR EQUIV.) CPO PIT SYSTEM CIRCULAR CHAMBER



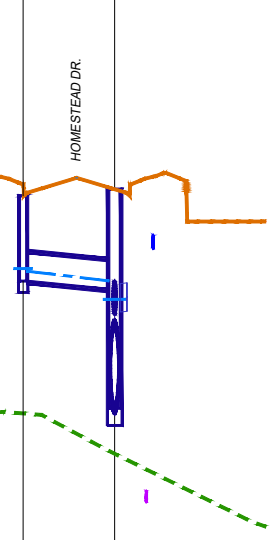
58

1/61	5/6
STD IP/MEAO GULLY PIT BARRIER KERB ON-GRADE INLET (2.4 S), L.L.L BIKESAFE GRATE (C/D)	DRAINWAY SYSTEM ON GRADE, L.L.L 2.4m KERB INLET, CLASS (D) HINGED BIKESAFE GALV. GRATE ON TOP OF ROCLA (OR EQUIV.) CPO PIT SYSTEM CIRCULAR CHAMBER



61

1/71	8/X2
STD IP/MEAO ACCESS CHAMBER 1500mm DIA	



71



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Client:



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(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

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Plan: SP295994
Local Authority: CITY OF GOLD COAST
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Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE
STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 14 OF 18

F	27-04-2021	AMENDMENT TO FAIRWAY STREET DESIGN	IG	MG	
E	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG	
D	10-09-2020	RESPONSE TO RFI No. 4	BA	MG	
C	02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG	
B	12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG	
A	01-05-2020	ORIGINAL ISSUE	BA	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.
HORIZ: 0 5 10 15 20 25 30 35 40

Scale 1:50 - Lengths are in Metres.
VERT: 0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	27-04-2021

Drawing No:
5941 ENG OPW1 523

Rev. No:
F

g:\Projects\5941\engineering\Acad\civil works stage 1\Current\5941 ENG OPW1 550.dwg

39% AEP STORMWATER DRAINAGE CALCULATIONS TABLES SHEET 1 OF 2



Site Address:
60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

RPD:	
Lot:	501
Plan:	SP259594
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RI :	-

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

SCALE IN METRES

NOT APPLICABLE

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	27-04-2021

Drawing No:	Rev. No:
5941 ENG OPW1 550	C

STORMWATER DRAINAGE NETWORK - 39.35% AEP (2 YR ARI) DESIGN SHEET

LOCATION		SUB-CATCHMENT RUNOFF						INLET DESIGN						DRAIN DESIGN										HEAD LOSSES										PART FULL											
STRUCTURE No.	DRAIN SECTION	Tc SUB-CATCHMENT TIME OF CONC. min	I RAINFALL INTENSITY mm/h	A SUB-CATCHMENT AREA ha	CA EQUIVALENT AREA ha	Qc SUB-CATCHMENT DISCHARGE L/s	Qa FLOW IN K&C (INC. BYPASS) L/s	ROAD GRADE AT INLET %	ROAD FALL AT INLET %	INLET TYPE	INLET CURVE	Qg FLOW INTO INLET L/s	Qb BYPASS FLOW L/s	BYPASS STRUCTURE No.	Tc CRITICAL TIME OF CONC. min	I RAINFALL INTENSITY mm/hr	CA TOTAL (C + A) L/s	Qcrit PEAK FLOW L/s	Q PIPE FLOW L/s	L REACH LENGTH m	S PIPE GRADE %	PIPE SIZE mm	PIPE CLASS	VH-Q/A FULL PIPE VELOCITY m/s	Qcap CAPACITY FLOW L/s	Vcap CAPACITY VELOCITY m/s	Vt TRAVEL VELOCITY m/s	CHART(S) USED	VH2g VELOCITY HEAD m	Ku US HEAD LOSS COEFFICIENT	hu US HEAD LOSS m	Kw W.S.E COEFFICIENT	hw CHANGE IN W.S.E m	Sf PIPE FRICTION SLOPE %	hf PIPE FRICTION HEAD LOSS m	dn NORMAL DEPTH m	Vn NORMAL DEPTH m/s	PIPE US LL m	PIPE DIS LL m	PIPE US H.G.L. m	PIPE DIS H.G.L. m	W.S.E m	GRATE LEVEL m		
1/29	1/29 to 2/29	5	138	0.228	0.181	69	69			900x900		69	0	2/29	5	138	0.181	69	69	5.182	1	375	3	0.63	175	1.59	1.49	G1	0.02	3.11	0.062			0.062	0.16	0.008	0.164	1.49	9.726	9.674	10.81	10.802	10.873	11.654	
2/29	2/29 to 1/52	5	138	0.045	0.035	14	14	1.2	3	GRADE_BK_2400_Lip	10 3X	14	0	1/27	5.86	138	0.216	83	83	0.888	2	375	3	0.75	248	2.25	2.62	T1	0.029	0.65	0.919			0.919	0.22	0.002	0.149	2.82	9.603	9.586	10.784	10.782	10.802	11.189	
1/30	1/30 to 2/30	5	138	0.679	0.539	207	207			1200x1200		207	0	2/30	5	138	0.539	207	207	5.717	0.5	600	3	0.73	434	1.54	1.52	G1	0.027	2.94	0.98			0.98	0.11	0.006	0.291	1.52	9.328	9.299	11.231	11.225	11.311	13	
2/30	2/30 to 1/42	5	138	0.058	0.046	18	18	2.8	3	GRADE_BK_2400_Lip	20 3X	18	0	1/26	5.86	138	0.585	224	224	11.038	0.5	600	3	0.79	434	1.54	1.55	T2/T5	0.032	0.59	0.919			0.919	0.13	0.015	0.305	1.55	9.219	9.164	11.206	11.191	11.225	11.478	
1/31	1/31 to 2/31	5	138	0.588	0.467	179	179			1200x1200		179	0	2/31	5	138	0.467	179	179	5.484	1	525	3	0.83	430	1.99	1.9	G1	0.035	3.01	0.105			0.105	0.17	0.01	0.236	1.9	10.44	10.385	12.016	12.007	12.121	12.579	
2/31	2/31 to 1/32	5	138	0.060	0.048	18	18	2.98	3	GRADE_BK_2400_Lip	20 3X	18	0	2/29	5.85	138	0.515	197	197	0.781	2	600	3	0.7	869	3.87	2.48	T1/T2	0.025	0.14	0.003			0.003	0.1	0.001	0.194	2.48	10.305	10.289	12.003	12.002	12.007	12.18	
1/32	1/32 to 1/32	5	138	0.033	0.027	10	10	2.98	3	GRADE_BK_2400_Lip	20 3X	10	0	2/31	5	138	0.027	10	10	1.038	1	375	3	0.89	175	1.59	0.86	G1	0	7	0.003			0.003	0	0	0	0.001	0.86	12.54	12.549	12.943	12.943	12.946	13.786
1/33	1/33 to 2/33	5	138	3.839	3.048	1168	1168			1200x1200		1168	0	2/33	5	138	3.048	1168	1168	5.032	0.4	750	3	2.64	704	1.59	2.64	G1	0.357	3.43	1.224			1.224	1.1	0.055	0.75	2.64	17.033	17.013	17.886	17.831	19.11	19.6	
2/33	2/33 to 6/32	5	138	0.114	0.090	35	35	0.64	3	1TCS90_UNCHECKED	0.50 3X	35	0	1/46	5.63	138	3.139	1202	1202	0.888	0.4	825	3	2.25	908	1.7	2.25	T1	0.258	0.01	0.002			0.002	0.7	0.006	0.825	2.25	16.928	16.925	17.629	17.623	17.631	19.281	
1/34	1/34 to 2/34	5	138	0.549	0.436	167	167			900x900		167	0	2/34	5	138	0.436	167	167	5.182	1	375	3	1.51	175	1.59	1.81	G1	0.117	3.9	0.455			0.455	0.91	0.047	0.293	1.81	14.009	14.007	14.513	14.466	14.969	15.809	
2/34	2/34 to 8/2	5	138	0.057	0.045	17	17	3.17	3	GRADE_BK_2400_Lip	30 3X	17	0	1/44	5.65	138	0.491	184	184	1.038	1	375	3	1.67	175	1.59	1.8	T1	0.142	0.64	0.99			0.99	1.1	0.011	0.327	1.8	13.938	13.927	14.376	14.365	14.466	15.371	
1/35	1/35 to 2/35	5	138	1.710	1.358	521	521			1200x1200		521	0	2/35	5	138	1.358	521	521	5.319	1	525	3	2.4	430	1.99	2.4	G1	0.295	2.89	0.792			0.792	1.46	0.078	0.525	2.4	13.961	13.908	15.091	15.013	15.894	18.6	
2/35	2/35 to 7/2	5	138	0.090	0.071	27	28	3.17	3	GRADE_BK_2400_Lip	30 3X	28	0	2/3	5.84	138	1.429	547	547	11.038	1	600	3	1.94	614	2.17	2.45	T1/T2	0.191	0.12	0.022			0.022	0.79	0.088	0.442	2.45	13.868	13.757	14.991	14.904	15.013	15.764	
1/36	1/36 to 8/2	5	138	0.387	0.307	118	118			1200x1200		118	0	8/2	5	138	0.307	118	118	5.079	1	375	3	1.87	175	1.59	1.7	G1	0.058	4.87	0.236			0.236	0.45	0.023	0.225	1.7	15.773	15.723	16.418	16.390	16.655	17.591	
1/38	1/38 to 5/2	5	138	0.108	0.086	33	33	3.17	3	GRADE_BK_2400_Lip	30 3X	32	1	2/35	5	138	0.086	33	32	13.324	1	375	3	0.29	175	1.59	1.21	G1	0.004	7	0.031			0.031	0.03	0.005	0.109	1.21	16.603	16.47	16.999	16.994	17.029	17.831	
1/39	1/39 to 4/2	5	138	0.387	0.307	118	118			900x900		118	0	4/2	5	138	0.307	118	118	5.23	1	375	3	1.87	175	1.59	1.7	G1	0.058	5.47	0.318			0.318	0.41	0.023	0.225	1.7	17.145	17.093	17.597	17.486	17.825	19.032	
1/40	1/40 to 2/40	5	138	0.080	0.063	24	24			SAG_BK_2400_Lip	SAG	24	0	2/40	5	138	0.063	24	24	13.404	1	375	3	0.22	175	1.59	1.12	G1	0.002	7	0.017			0.017	1.05	0.133	0.094	1.12	17.445	17.311	17.596	17.415	17.573	18.757	
2/40	2/40 to 4/6	5	138	0.082	0.065	25	25	0.6	3	GRADE_BK_2400_Lip		25	0	5/6	5.2	137	0.129	49	49	16.293	1	375	3	0.44	175	1.59	1.36	G1/T10	0.01	2.36	0.924	2.73		0.927	1.15	0.153	0.136	1.36	17.231	17.068	17.391	17.203	17.418	18.757	
1/41	1/41 to 3/2	5	138	0.404	0.321	123	123			900x900		123	0	3/2	5	138	0.321	123	123	5.23	1	375	3	1.11	175	1.59	1.72	G1	0.063	5.28	0.334			0.334	-0.04	0.026	0.232	1.72	18.265	18.213	18.943	18.945	18.977	20.438	
1/42	1/42 to 8/32	5	138	0.109	0.086	33	33	0.64	3	GRADE_BK_2400_Lip	0.50 3X	32	1	1/52	5	138	0.086	33	32	8.888	1	375	3	0.29	175	1.59	1.21	G1	0.004	7	0.031			0.031	-0.38	0.002	0.109	1.21	17.014	17.005	17.168	17.171	17.198	18.541	
1/44	1/44 to 3/4	5	138	0.096	0.076	29	29			SAG_BK_2400_Lip	SAG	29	0	3/4	5	138	0.076	29	29	13.32	1	375	3	0.26	175	1.59																			

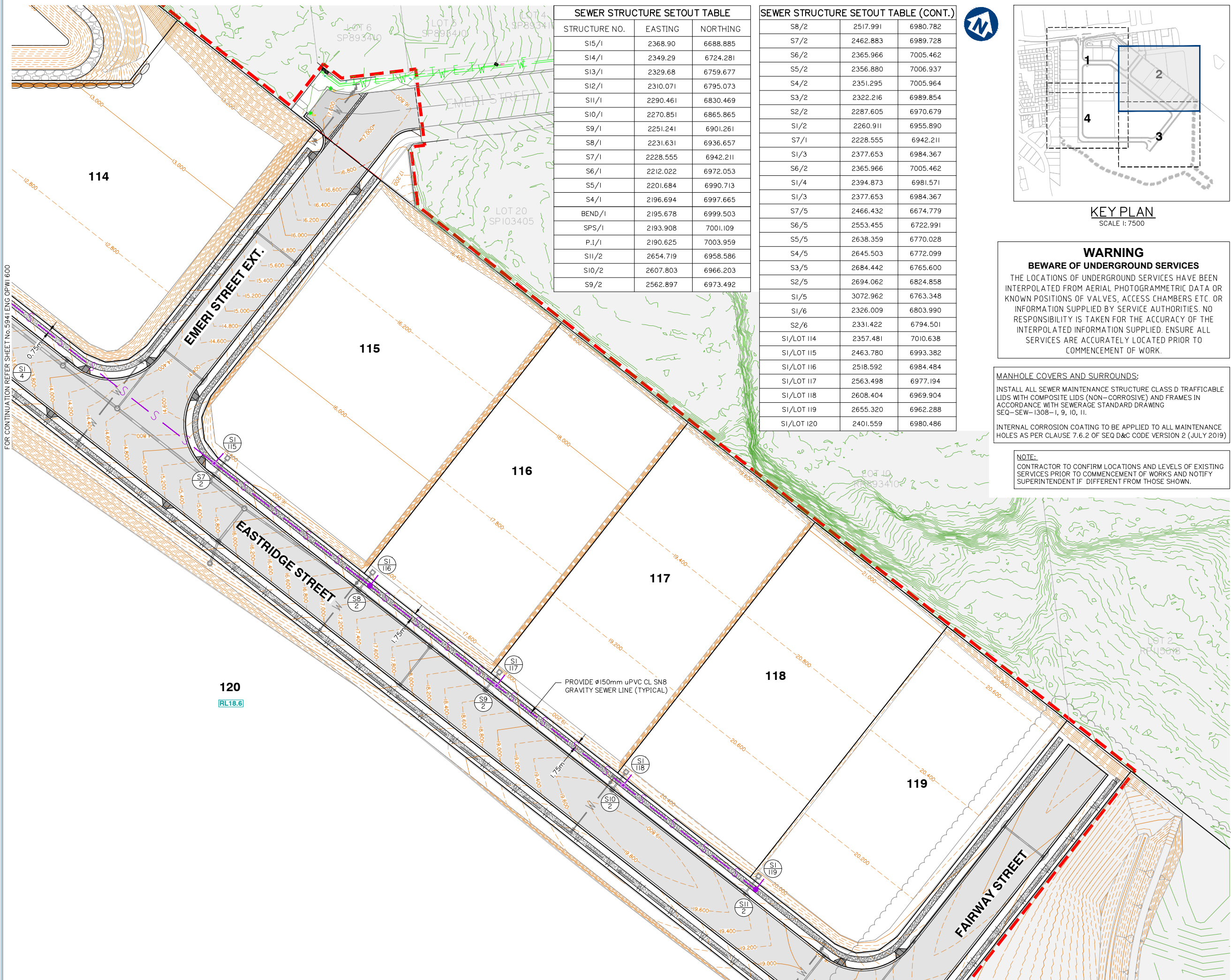
STORMWATER DRAINAGE NETWORK - 1.00% AEP (100 YR ARI) DESIGN SHEET

LOCATION		SUB-CATCHMENT RUNOFF						INLET DESIGN						DRAIN DESIGN						HEAD LOSSES												PART FULL											
STRUCTURE No.	DRAIN SECTION	Tc SUB-CATCHMENT TIME OF CONC. min	I RAINFALL INTENSITY mm/hr	A SUB-CATCHMENT AREA ha	CA EQUIVALENT AREA ha	Qc SUB-CATCHMENT DISCHARGE L/s	Qa FLOW IN K&C (INC. BYPASS) L/s	ROAD GRADE AT INLET %	ROAD FALL AT INLET %	INLET TYPE	INLET CURVE	Qg FLOW INTO INLET L/s	Qb BYPASS FLOW L/s	STRUCTURE No.	Tc CRITICAL TIME OF CONC. min	I RAINFALL INTENSITY mm/hr	CA TOTAL (C + A) ha	Qcat PEAK FLOW L/s	Q PIPE FLOW L/s	L REACH LENGTH m	S PIPE GRADE %	PIPE SIZE mm	PIPE CLASS	VH-Q/A FULL PIPE VELOCITY m/s	Qcap CAPACITY FLOW L/s	Vcap CAPACITY VELOCITY m/s	Vt TRAVEL VELOCITY m/s	CHART(S) USED	VH2g VELOCITY HEAD m	Ku US HEAD LOSS COEFFICIENT	hu US HEAD LOSS m	Kw W.S.E COEFFICIENT	hw CHANGE IN W.S.E m	Sf PIPE FRICTION SLOPE %	Hf PIPE FRICTION HEAD LOSS m	dn NORMAL DEPTH m	Vn NORMAL DEPTH VEL. m/s	PIPE US I.L. m	PIPE DIS I.L. m	PIPE US H.G.L. m	PIPE DIS H.G.L. m	W.S.E m	GRATE LEVEL m
	1/1 to 2/1	5	307	0.058	0.057	49	49	0.93	3	GRADE_BK_2400_Lip	0.5G 3X	2	47	1/11	5	307	0.057	49	2	13.324	2	375	3	0.02	248	2.25	0.67	G1	0	3.14	0		0	0	0	0.023	0.67	18.283	18.016	19.411	19.411	19.411	19.411
	2/1 to 3/1	5	307	0.077	0.076	65	110	0.93	3	GRADE_BK_2400_Lip	0.5G 3X	-2	112	3/1	5.85	306	0.414	352	193	39.535	1.25	450	3	1.21	319	2.01	2.1	T10	0.075	1.56	0.117	1.94	0.146	0.46	0.181	0.253	2.1	17.672	17.178	19.231	19.05	19.377	19.411
	3/1 to 4/1	5	307	0.044	0.043	37	193	0.93	3	GRADE_BK_2400_Lip	0.5G 3X	-141	333	4/1	5.38	302	0.741	622	242	39.535	1	450	3	1.52	285	1.79	2.01	T5	0.118	0.76	0.09		0.09	0.72	0.284	0.318	2.01	17.108	16.762	18.06	18.076	19.05	19.05
	4/1 to 5/1	5	307	0.044	0.043	37	416	0.93	3	GRADE_BK_2400_Lip	0.5G 3X	-88	514	2/14	5.89	298	1.179	975	323	39.379	1	450	3	2.03	285	1.79	2.03	T2/T5	0.211	0.66	0.14		0.14	1.29	0.506	0.45	2.83	10.742	16.349	18.537	18.03	18.676	18.676
	5/1 to 6/1									ACC_CHA_1350					5.7	298	3.34	2782	822	39.265	2.5	600	3	2.91	971	3.44	3.85	T2/T5	0.431	0.63	0.271		0.271	1.79	0.703	0.424	3.85	16.137	15.195	17.759	17.056	18.03	18.312
	6/1 to 7/1									ACC_CHA_1050					5.87	295	3.733	3063	1365	39.415	5	600	3	4.83	1374	4.86	5.54	T2/T5	1.096	0.58	0.635		0.635	4.55	1.794	0.488	5.54	14.791	12.82	16.421	14.627	17.056	17.057
	7/1 to 8/1									ACC_CHA_1050					5.99	294	4.06	3313	1581	39.415	5	600	3	5.59	1374	4.86	5.59	T8/T10	0.784	1.24	0.972	1.35	1.059	3.25	1.283	0.6	5.59	12.141	10.17	13.656	12.373	14.715	14.802
	8/1 to 9/1									ACC_CHA_1050					5.78	297	4.433	3652	2125	39.04	5	600	3	7.52	1374	4.88	7.52	T2/T4	1.439	0.37	0.53		0.53	5.98	2.333	0.6	7.52	9.895	7.743	11.843	9.511	12.373	12.374
	9/1 to 10/1									ACC_CHA_1800					6.19	291	12.655	10231	4884	38.665	2	1200	3	4.32	5516	4.88	5.51	T4/T8	0.952	0.69	0.652	0.69	0.66	1.57	0.606	0.878	5.51	7.335	6.563	8.858	8.252	9.519	10.657
	10/1 to 11/1									ACC_CHA_1800					6.31	289	12.884	10440	5197	15.067	2.5	1200	3	4.59	6167	5.45	6.11	T1/T2	1.077	0.22	0.237		0.237	1.78	0.276	0.844	6.11	6.540	6.154	8.015	7.739	8.252	9.15
	11/1 to 12/1									ACC_CHA_2100					6.35	289	13.259	10640	5384	10.192	0.1	1200	3	4.76	1233	1.09	4.76	T8/T10	0.278	1.7	0.473	1.95	0.543	0.46	0.945	1.2	4.76	6.048	6.038	7.265	7.218	7.808	8.345
	12/1 to 13/1									ACC_CHA_2100					6.39	288	13.331	10680	5897	18.157	0.1	(2x)1200	3	2.52	2467	1.09	2.52	T1/T2	0.324	-1.14	-0.368		-0.368	0.53	0.097	1.2	2.52	6.019	6	7.586	7.489	7.218	8.058
	13/1									HW outlet																																	
	1/2 to 2/2	5	307	0.362	0.358	305	305			900x900		261	44	2/2	5	307	0.358	305	261	5.23	0.97	375	3	2.36	173	1.57	2.36	G1	0.285	2.06	0.587		0.587	2.21	0.116	0.375	2.36	18.113	18.062	19.473	19.357	20.06	20.06
	2/2 to 3/2	5	307	0.033	0.032	28	72	2.82	3	GRADE_BK_2400_Lip	2G 3X	-224	296	1/40	5.84	307	0.39	332	36	46.091	0.5	375	3	0.33	124	1.12	0.98	T10	0.006	1.54	0.009	1.93	0.011	0.04	0.02	0.139	0.98	17.883	17.85	19.342	19.322	19.353	19.357
	3/2 to 4/2	5	307	0.017	0.017	15	85	1	3	GRADE_BK_2400_Lip	1G 3X	63	22	4/2	5.83	296	0.809	665	348	44.564	1.5	375	3	3.15	215	1.95	3.15	T8/T10	0.178	1.4	0.248	1.59	0.283	1.38	0.616	0.375	3.15	17.63	16.982	19.074	18.458	19.357	19.608
	4/2 to 5/2	5	307	0.048	0.047	40	154	3.17	3	GRADE_BK_2400_Lip	3G 3X	-135	286	5/2	6.87	293	1.242	1010	428	18.876	3	450	3	2.68	494	3.11	3.49	T2/T5	0.366	0.96	0.206		0.206	2.23	0.421	0.322	3.49	16.912	16.345	18.243	17.822	18.449	18.458
	5/2 to 6/2	5	307	0.022	0.021	18	307	3.17	3	GRADE_BK_2400_Lip	3G 3X	36	270	6/2	6.16	291	1.371	1110	455	24.757	4	450	3	2.86	570	3.59	3.98	T1	0.417	0.42	0.175		0.175	2.54	0.629	0.304	3.98	16.264	15.274	17.647	17.018	17.822	17.831
	6/2 to 7/2	5	307	0.028	0.027	23	388	3.17	3	GRADE_BK_2400_Lip	3G 3X	-154	542	2/34	6.23	291	1.782	1438	911	38.004	3.33	450	3	3.21	521	3.27	3.73	T2/T5	0.526	0.48	0.253		0.253	3.21	1.237	0.361	3.73	15.084	13.798	16.198	14.961	16.451	17.018
	7/2 to 8/2									ACC_CHA_1200					5.84	298	3.498	2900	889	11.316	2	675	3	2.48	1189	3.32	3.64	T2/T5	0.315	0.7	0.222		0.222	1.12	0.127	0.435	3.64	13.603	13.376	14.739	14.612	14.961	15.85
	8/2 to 9/2									ACC_CHA_1200					5.89	298	4.1	3391	1186	31.9	3.33	675	3	3.31	1534	4.29	4.73	T2/T5	0.56	0.29	0.164		0.164	1.99	0.634	0.446	4.73	13.278	12.217	14.449	13.815	14.812	15.457
	9/2 to 10/2									ACC_CHA_1200					5.8	296	4.37	3996	1288	18.301	2.5	675	3	3.6	1330	3.72	4.23	T1/T2	0.661	0.23	0.149		0.149	2.34	0.629	0.535	4.23	12.197	11.74	13.665	13.236	13.815	14.598
	10/2 to 11/2									ACC_CHA_1200					5.87	295	4.403	3612	1433	30.458	3																						

STORMWATER DRAINAGE NETWORK - 1.00% AEP (100 YR ARI) DESIGN SHEET

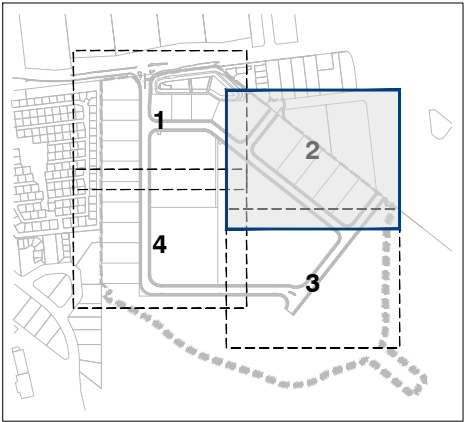
LOCATION		SUB-CATCHMENT RUNOFF						INLET DESIGN						DRAIN DESIGN						HEAD LOSSES										PART FULL														
STRUCTURE No.	DRAIN SECTION	Tc SUB-CATCHMENT TIME OF CONC. min	I RAINFALL INTENSITY mm/hr	A SUB-CATCHMENT AREA ha	CA EQUIVALENT AREA ha	Qc SUB-CATCHMENT DISCHARGE L/s	Qa FLOW IN K&C (INC. BYPASS) L/s	ROAD GRADE AT INLET %	ROAD XFALL AT INLET %	INLET TYPE	INLET CURVE	Qg FLOW INTO INLET L/s	Qb BYPASS FLOW L/s	BYPASS STRUCTURE No.	Tc CRITICAL TIME OF CONC. min	I RAINFALL INTENSITY mm/hr	CA TOTAL (C x A) ha	Qinst PEAK FLOW L/s	Q PIPE FLOW L/s	L REACH LENGTH m	S PIPE GRADE %	PIPE SIZE mm	PIPE CLASS	VH/QA FULL PIPE VELOCITY m/s	Qcap CAPACITY FLOW L/s	Vcap CAPACITY VELOCITY m/s	Vt TRAVEL VELOCITY m/s	CHART(S) USED	VH2g VELOCITY HEAD m	Ku US HEAD LOSS COEFFICIENT	Ku US HEAD LOSS m	Kw W.S.E COEFFICIENT	hw CHANGE IN W.S.E m	Sf PIPE FRICTION SLOPE %	hf PIPE FRICTION HEAD LOSS m	dn NORMAL DEPTH m	Vn NORMAL DEPTH VEL. m/s	PIPE US L m	PIPE DIS L m	PIPE US H.G.L. m	PIPE DIS H.G.L. m	W.S.E m	GRATE LEVEL m	
2/25	2/25 to 1/72	5	307	0.047	0.046	40	40			SAG_BK_2400_Lip		-4689	4728	1/24	5	307	0.238	203	739	0.956	1	375	3	6.69	175	1.59	6.69	T1	2.285	0.2	0.46		8.46	17.76	0.17	0.375	6.69	9.014	9.004	10.094	9.924	10.554	10.554	
1/26	1/26 to 1/72	5	307	0.183	0.181	155	3657			SAG_BK_2400_Lip		SAG	2	3654	1/25	5	307	0.181	155	2	10.956	1	375	3	0.02	175	1.59	0.55	G1	0	4.78	0		0	0	0	0.029	0.55	9.17	9.06	9.924	9.924	10.554	10.554
1/27	1/27 to 2/27	5	307	0.191	0.189	161	1579			900x900		1579	0	1/27	5	307	0.189	161	1579	5.182	1	375	3	14.3	175	1.59	14.3	G1	0.207	2.07	0.429	0.429	1.61	0.083	0.375	14.3	9.332	9.28	10.826	10.743	11.255	11.255		
2/27	2/27 to 1/62	5	307	0.044	0.044	37	37	0.69	3	GRADE_BK_2400_Lip	0.5G 3X	-1573	1610	1/25	5.91	307	0.232	198	7	0.888	1	375	3	0.06	175	1.59	0.77	T1	0	0.2	0		0	0	0	0.05	0.77	9.21	9.201	10.284	10.284	10.284	10.743	
1/29	1/29 to 2/29	5	307	0.228	0.225	192	192			900x900		192	0	2/29	5	307	0.225	192	192	5.182	1	375	3	1.74	175	1.59	1.74	G1	0.154	2.12	0.327	0.327	1.2	0.062	0.375	1.74	9.276	9.674	11.251	11.189	11.578	11.654		
2/29	2/29 to 1/52	5	307	0.045	0.044	38	1232	1.2	3	GRADE_BK_2400_Lip	1G 3X	-186	1419	1/27	5.95	306	0.269	229	5	0.888	2	375	3	0.05	248	2.25	0.9	T1	0	0.2	0		0	0	0	0.037	0.9	9.603	9.586	11.021	11.021	11.021	11.189	
1/30	1/30 to 2/30	5	307	0.679	0.671	572	572			1200x1200		481	91	2/30	5	307	0.671	572	481	5.717	6.5	600	3	1.7	434	1.54	1.7	G1	0.147	2.37	0.35	0.35	0.61	0.035	0.6	1.7	9.328	9.299	11.511	11.476	11.861	13		
2/30	2/30 to 1/42	5	307	0.058	0.058	49	1907	2.8	3	GRADE_BK_2400_Lip	2G 3X	-471	2378	1/26	5.06	306	0.728	620	8	11.038	6.5	600	3	0.03	434	1.54	0.6	T2/T5	0	0.36	0		0	0	0	0.057	0.6	9.219	9.164	11.326	11.326	11.476	11.476	
1/31	1/31 to 2/31	5	307	0.588	0.582	496	496			1200x1200		369	127	2/31	5	307	0.582	496	369	5.484	1	525	3	1.7	430	1.99	2.23	G1	0.148	2.42	0.359	0.359	0.73	0.04	0.374	2.23	10.44	10.385	12.22	12.18	12.579	12.579		
2/31	2/31 to 1/22	5	307	0.060	0.060	51	888	2.98	3	GRADE_BK_2400_Lip	2G 3X	-307	1195	2/29	5.94	306	0.641	546	61	0.781	2	600	3	0.22	869	3.07	1.77	T1/T2	0.002	-0.25	-0.001	-0.001	0.01	0	0.108	1.77	10.305	10.289	12.092	12.092	12.691	12.18		
1/32	1/32 to 1/62	5	307	0.033	0.033	28	868	2.98	3	GRADE_BK_2400_Lip	2G 3X	158	710	2/31	5	307	0.033	28	158	1.038	1	375	3	1.43	175	1.59	1.8	G1	0.104	3.42	0.356	0.356	0.81	0.008	0.278	1.8	12.56	12.549	13.245	13.236	13.6	13.786		
1/33	1/33 to 2/33	5	307	3.839	3.794	3236	3236			1200x1200		680	2556	2/33	5	307	3.794	3236	680	5.032	6.4	750	3	1.54	704	1.59	1.82	G1	0.121	3.74	0.453	0.453	0.37	0.019	0.593	1.82	17.033	17.013	18.459	18.441	18.912	19.6		
2/33	2/33 to 1/62	5	307	0.114	0.112	96	3557	0.64	3	1TCS9_UNCHECKED	0.5G 3X	239	3317	1/46	5.95	306	3.907	3325	913	0.888	6.4	825	3	1.71	908	1.7	1.94	T1	0.149	0.99	0.147	0.147	0.4	0.004	0.68	1.94	16.928	16.925	18.284	18.291	18.441	19.281		
1/34	1/34 to 2/34	5	307	0.549	0.542	463	463			900x900		200	263	2/34	5	307	0.542	463	200	5.182	1	375	3	1.81	175	1.59	1.81	G1	0.167	2.43	0.407	0.407	1.3	0.067	0.375	1.81	14.009	14.007	15.171	15.104	15.578	15.809		
2/34	2/34 to 1/62	5	307	0.057	0.056	48	893	3.17	3	GRADE_BK_2400_Lip	3G 3X	116	736	1/44	5.95	306	0.988	509	315	1.038	1	375	3	2.85	175	1.59	2.85	T1	0.415	1.1	0.458	0.458	3.23	0.034	0.375	2.85	13.938	13.927	14.646	14.612	15.104	15.371		
1/35	1/35 to 2/35	5	307	1.710	1.690	1441	1441			1200x1200		481	961	2/35	5	307	1.69	1441	480	5.319	1	525	3	2.22	430	1.99	2.22	G1	0.251	2.23	0.561	0.561	1.25	0.066	0.525	2.22	13.961	13.908	15.83	15.764	16.391	16.6		
2/35	2/35 to 1/72	5	307	0.090	0.088	75	1126	3.17	3	GRADE_BK_2400_Lip	3G 3X	-47	1173	2/3	5.94	306	1.779	1514	431	11.038	1	600	3	1.52	614	2.17	2.35	T1/T2	0.116	-0.14	-0.017	-0.017	0.49	0.054	0.37	2.35	13.868	13.757	15.015	14.961	14.998	15.764		
1/36	1/36 to 1/62	5	307	0.387	0.383	326	326			1200x1200		232	94	6/2	5	307	0.383	326	232	5.079	1	375	3	2.1	175	1.59	2.1	G1	0.225	2.15	0.404	0.404	1.75	0.089	0.375	2.1	15.713	15.723	17.107	17.018	17.591	17.591		
1/38	1/38 to 5/2	5	307	0.108	0.107	91	91	3.17	3	GRADE_BK_2400_Lip	3G 3X	1	90	2/35	5	307	0.107	91	1	13.324	1	375	3	0.01	175	1.59	0.48	G1	0	2.97	0		0	0	0	0.024	0.48	16.603	16.47	17.822	17.822	17.831	17.831	
1/39	1/39 to 4/2	5	307	0.387	0.383	326	326			900x900		234	92	4/2	5	307	0.383	326	234	5.23	1	375	3	2.12	175	1.59	2.12	G1	0.23	2.09	0.481	0.481	1.78	0.093	0.375	2.12	17.145	17.093	18.551	18.458	19.032	19.032		
1/40	1/40 to 2/40	5	307	0.080	0.079	67	373			SAG_BK_2400_Lip	SAG	2	371	2/40	5	307	0.079	67	2	13.404	1	375	3	0.02	175	1.59	0.55	G1	0	2.87	0		0	0	0	0.03	0.55	17.445	17.311	18.719	18.719	18.72	td	

FOR CONTINUATION REFER SHEET No.5941 ENG OPW1 600



SEWER STRUCTURE SETOUT TABLE		
STRUCTURE NO.	EASTING	NORTHING
SI5/1	2368.90	6688.885
SI4/1	2349.29	6724.281
SI3/1	2329.68	6759.677
SI2/1	2310.071	6795.073
SI1/1	2290.461	6830.469
SI0/1	2270.851	6865.865
S9/1	2251.241	6901.261
S8/1	2231.631	6936.657
S7/1	2228.555	6942.211
S6/1	2212.022	6972.053
S5/1	2201.684	6990.713
S4/1	2196.694	6997.665
BEND/1	2195.678	6999.503
SPS/1	2193.908	7001.109
P.I/1	2190.625	7003.959
SI1/2	2654.719	6958.586
SI0/2	2607.803	6966.203
S9/2	2562.897	6973.492

SEWER STRUCTURE SETOUT TABLE (CONT.)		
S8/2	2517.991	6980.782
S7/2	2462.883	6989.728
S6/2	2365.966	7005.462
S5/2	2356.880	7006.937
S4/2	2351.295	7005.964
S3/2	2322.216	6989.854
S2/2	2287.605	6970.679
SI/2	2260.911	6955.890
S7/1	2228.555	6942.211
SI/3	2377.653	6984.367
S6/2	2365.966	7005.462
SI/4	2394.873	6981.571
SI/3	2377.653	6984.367
S7/5	2466.432	6674.779
S6/5	2553.455	6722.991
S5/5	2638.359	6770.028
S4/5	2645.503	6772.099
S3/5	2684.442	6765.600
S2/5	2694.062	6824.858
SI/5	3072.962	6763.348
SI/6	2326.009	6803.990
S2/6	2331.422	6794.501
SI/LOT 114	2357.481	7010.638
SI/LOT 115	2463.780	6993.382
SI/LOT 116	2518.592	6984.484
SI/LOT 117	2563.498	6977.194
SI/LOT 118	2608.404	6969.904
SI/LOT 119	2655.320	6962.288
SI/LOT 120	2401.559	6980.486



KEY PLAN
SCALE 1: 7500

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN 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. ENSURE ALL SERVICES ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK.

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)

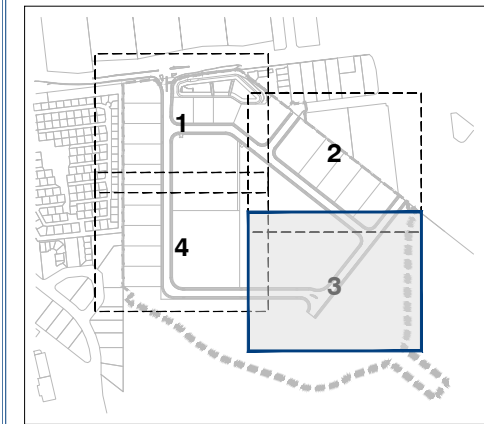
NOTE:
CONTRACTOR TO CONFIRM LOCATIONS AND LEVELS OF EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY SUPERINTENDENT IF DIFFERENT FROM THOSE SHOWN.

Issue	Date	Description	DRN	CHK
D	27-04-2021	AMENDMENT TO FAIRWAY STREET DESIGN	IG	MG
C	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG
C	02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG
B	12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG
A	01-05-2020	ORIGINAL ISSUE	BA	MG

SCALE IN METRES
0 10 20 30 40 50
1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1:	1:500
Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	27-04-2021

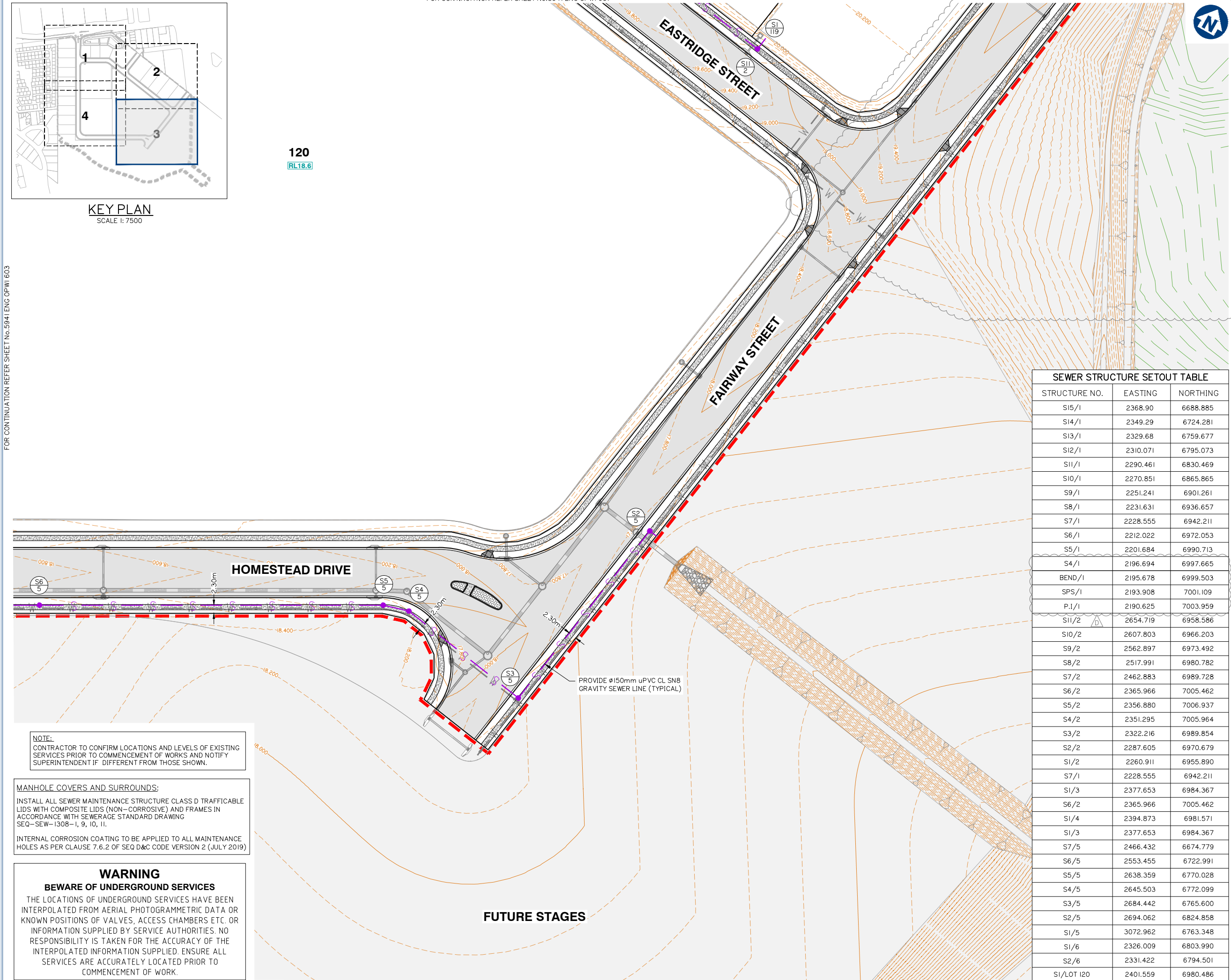
FOR CONTINUATION REFER SHEET No.5941 ENG OPW1 603



KEY PLAN
SCALE 1: 7500

120
RL18.6

FOR CONTINUATION REFER SHEET No.5941 ENG OPW1 601



SEWER STRUCTURE SETOUT TABLE		
STRUCTURE NO.	EASTING	NORTHING
S15/1	2368.90	6688.885
S14/1	2349.29	6724.281
S13/1	2329.68	6759.677
S12/1	2310.071	6795.073
S11/1	2290.461	6830.469
S10/1	2270.851	6865.865
S9/1	2251.241	6901.261
S8/1	2231.631	6936.657
S7/1	2228.555	6942.211
S6/1	2212.022	6972.053
S5/1	2201.684	6990.713
S4/1	2196.694	6997.665
BEND/1	2195.678	6999.503
SPS/1	2193.908	7001.109
P.1/1	2190.625	7003.959
S11/2	2654.719	6958.586
S10/2	2607.803	6966.203
S9/2	2562.897	6973.492
S8/2	2517.991	6980.782
S7/2	2462.883	6989.728
S6/2	2365.966	7005.462
S5/2	2356.880	7006.937
S4/2	2351.295	7005.964
S3/2	2322.216	6989.854
S2/2	2287.605	6970.679
S1/2	2260.911	6955.890
S7/1	2228.555	6942.211
S1/3	2377.653	6984.367
S6/2	2365.966	7005.462
S1/4	2394.873	6981.571
S1/3	2377.653	6984.367
S7/5	2466.432	6674.779
S6/5	2553.455	6722.991
S5/5	2638.359	6770.028
S4/5	2645.503	6772.099
S3/5	2684.442	6765.600
S2/5	2694.062	6824.858
S1/5	3072.962	6763.348
S1/6	2326.009	6803.990
S2/6	2331.422	6794.501
S1/LOT 120	2401.559	6980.486



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Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beerleigh 4207

Client:



FRASERS
PROPERTY

FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot:
Plan:
Local Authority:

501
SP295994
CITY OF GOLD COAST
COUNCIL

Level Datum:
Meridian:
Contour interval:
PSM:
RL:

AHD
-
-
-
-

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

SEWER RETICULATION
LAYOUT PLAN SHEET 3 OF 4

Rev.	Date	Description	IG	MG
D	27-04-2021	AMENDMENT TO FAIRWAY STREET DESIGN	IG	MG
C	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG
C	02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG
B	12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG
A	01-05-2020	ORIGINAL ISSUE	BA	MG

SCALE IN METRES



0 10 20 30 40 50

1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:

IG

Drafted:

BA

Approved:

MG

RPEQ:

16939

Signed:

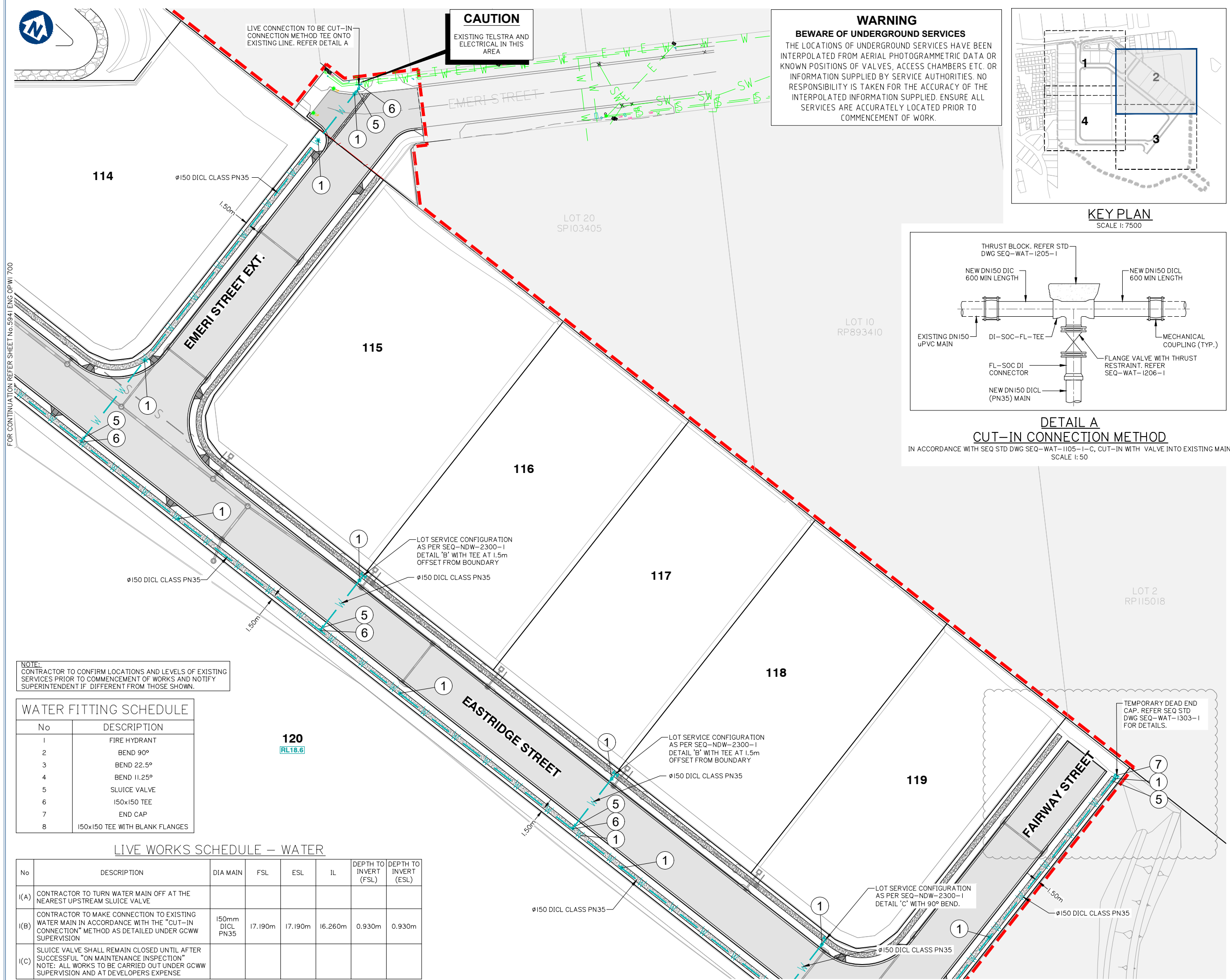


Date:

27-04-2021

Drawing No: 5941 ENG OPW1 602

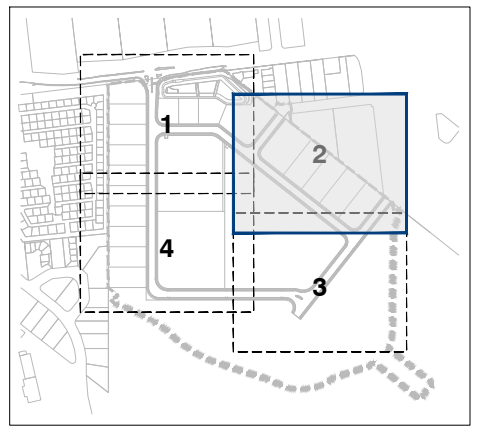
Rev. No: D



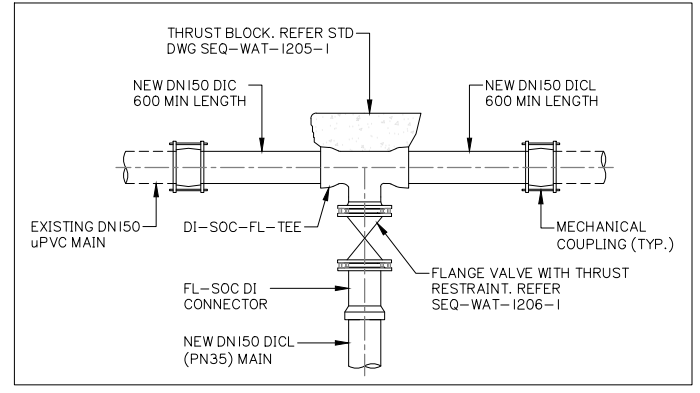
FOR CONTINUATION REFER SHEET No.5941 ENG OPW1 700

CAUTION
EXISTING TELSTRA AND ELECTRICAL IN THIS AREA

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN 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. ENSURE ALL SERVICES ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK.



KEY PLAN
SCALE 1: 7500



DETAIL A
CUT-IN CONNECTION METHOD
IN ACCORDANCE WITH SEQ STD DWG SEQ-WAT-1105-I-C, CUT-IN WITH VALVE INTO EXISTING MAIN
SCALE 1: 50

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

WATER FITTING SCHEDULE	
No	DESCRIPTION
1	FIRE HYDRANT
2	BEND 90°
3	BEND 22.5°
4	BEND 11.25°
5	SLUICE VALVE
6	150x150 TEE
7	END CAP
8	150x150 TEE WITH BLANK FLANGES

LIVE WORKS SCHEDULE – WATER							
No	DESCRIPTION	DIA MAIN	FSL	ESL	IL	DEPTH TO INVERT (FSL)	DEPTH TO INVERT (ESL)
I(A)	CONTRACTOR TO TURN WATER MAIN OFF AT THE NEAREST UPSTREAM SLUICE VALVE						
I(B)	CONTRACTOR TO MAKE CONNECTION TO EXISTING WATER MAIN IN ACCORDANCE WITH THE "CUT-IN CONNECTION" METHOD AS DETAILED UNDER GCWW SUPERVISION	150mm DI CL PN35	17.190m	17.190m	16.260m	0.930m	0.930m
I(C)	SLUICE VALVE SHALL REMAIN CLOSED UNTIL AFTER SUCCESSFUL "ON MAINTENANCE INSPECTION" NOTE: ALL WORKS TO BE CARRIED OUT UNDER GCWW SUPERVISION AND AT DEVELOPERS EXPENSE						

Client:



FRASERS
PROPERTY

FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot:	501
Plan:	SP295994
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour interval:	-
PSM:	-
RL:	-

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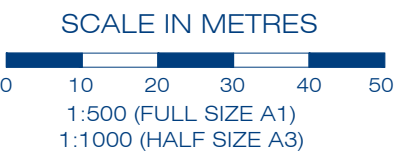
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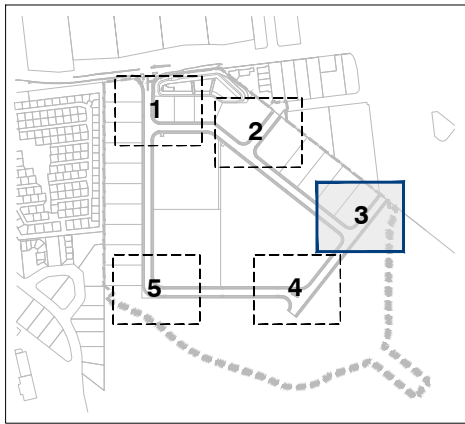
WATER RETICULATION
LAYOUT PLAN SHEET 2 OF 4

ISSUE	Date	Description	BA	MG	DRN	CHK
D	27-04-2021	AMENDMENT TO FAIRWAY STREET DESIGN	IG	MG		
C	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG		
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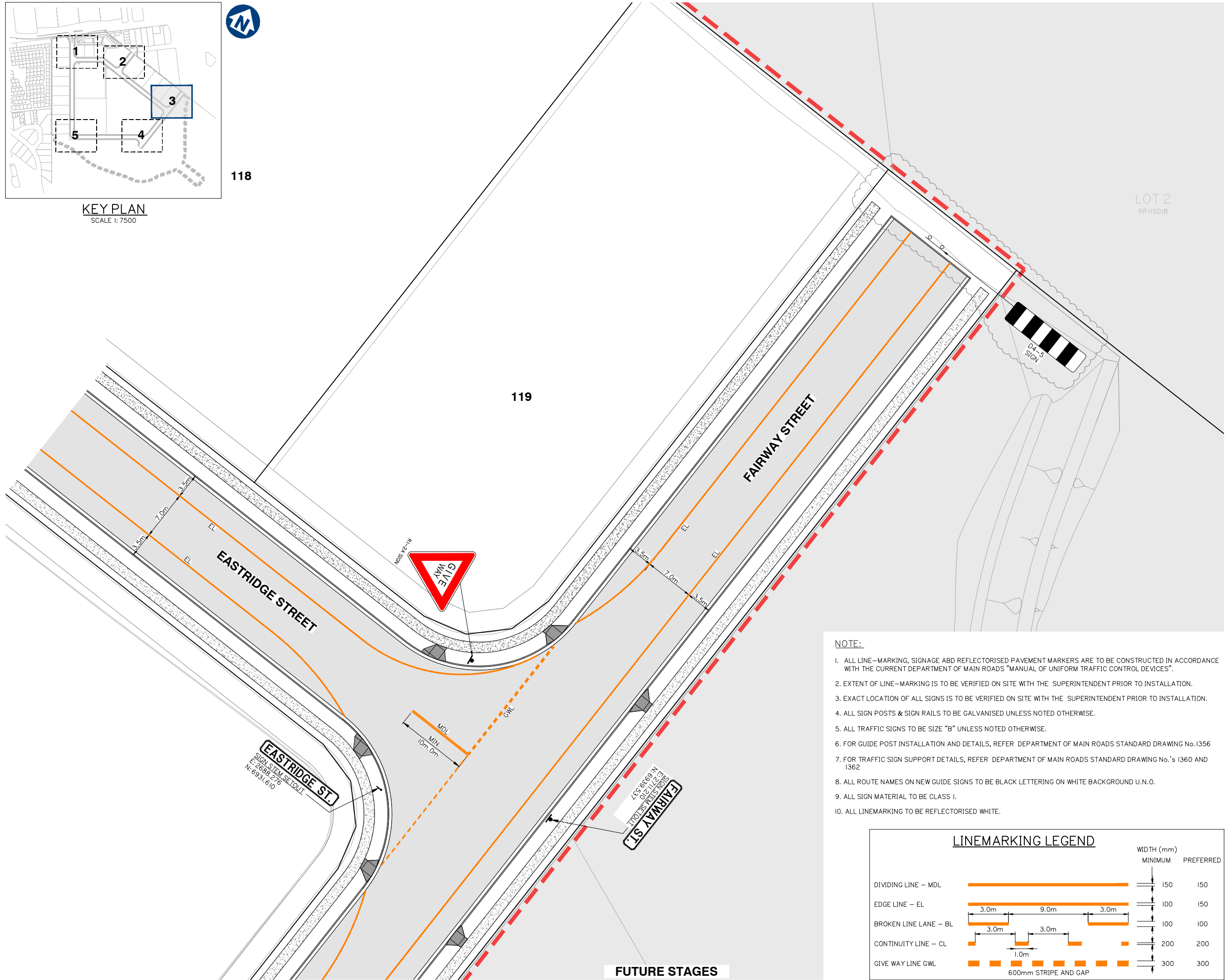
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Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	27-04-2021

Drawing No: 5941 ENG OPW1 701
Rev. No: D



KEY PLAN
SCALE 1: 7500

118



119

LOT 2
RP115018

NOTE:

1. ALL LINE-MARKING, SIGNAGE AND REFLECTORISED PAVEMENT MARKERS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT DEPARTMENT OF MAIN ROADS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
2. EXTENT OF LINE-MARKING IS TO BE VERIFIED ON SITE WITH THE SUPERINTENDENT PRIOR TO INSTALLATION.
3. EXACT LOCATION OF ALL SIGNS IS TO BE VERIFIED ON SITE WITH THE SUPERINTENDENT PRIOR TO INSTALLATION.
4. ALL SIGN POSTS & SIGN RAILS TO BE GALVANISED UNLESS NOTED OTHERWISE.
5. ALL TRAFFIC SIGNS TO BE SIZE "B" UNLESS NOTED OTHERWISE.
6. FOR GUIDE POST INSTALLATION AND DETAILS, REFER DEPARTMENT OF MAIN ROADS STANDARD DRAWING No. 1356
7. FOR TRAFFIC SIGN SUPPORT DETAILS, REFER DEPARTMENT OF MAIN ROADS STANDARD DRAWING No.'s 1360 AND 1362
8. ALL ROUTE NAMES ON NEW GUIDE SIGNS TO BE BLACK LETTERING ON WHITE BACKGROUND U.N.O.
9. ALL SIGN MATERIAL TO BE CLASS I.
10. ALL LINEMARKING TO BE REFLECTORISED WHITE.

LINEMARKING LEGEND

		WIDTH (mm)	
		MINIMUM	PREFERRED
DIVIDING LINE - MDL		150	150
EDGE LINE - EL		100	150
BROKEN LINE LANE - BL		100	100
CONTINUITY LINE - CL		200	200
GIVE WAY LINE GWL		300	300

FUTURE STAGES

LINEMARKING AND SIGNAGE PLAN SHEET 3 OF 5

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

LINEMARKING AND SIGNAGE
PLAN SHEET 3 OF 5

Issue	Date	Description	BA	MG	IG	CHK
D	27-04-2021	AMENDMENT TO FAIRWAY STREET DESIGN			IG	MG
C	28-10-2020	ISSUED FOR CONSTRUCTION			BA	MG
C	02-09-2020	MINOR CHANGE TO STAGE 1			BA	MG
B	12-06-2020	INFORMATION REQUEST RESPONSE			BA	MG
A	01-05-2020	ORIGINAL ISSUE			BA	MG

SCALE IN METRES



1:250 (FULL SIZE A1)
1:500 (HALF SIZE A3)

Scale at A1:

1:250

Designed:

IG

Drafted:

BA

Approved:

MG

RPEQ:

16939

Signed:

Date:

27-04-2021

Drawing No:

5941 ENG OPW1 802

Rev. No:

D