

CIVIL OPERATIONAL WORKS ASSOCIATED WITH A 3 INTO 3 RECONFIGURATION OF LOT

DRAWING INDEX		
DRAWING No.	Rev.	DRAWING TITLE
6098 ENG OPW 001	A	DRAWING INDEX AND LOCALITY PLAN
6098 ENG OPW 002	A	GENERAL NOTES SHEET 1 OF 2
6098 ENG OPW 003	A	GENERAL NOTES SHEET 2 OF 2
6098 ENG OPW 004	A	LEGEND
6098 ENG OPW 010	A	EXISTING SURFACE LAYOUT PLAN
6098 ENG OPW 020	A	SEDIMENT AND EROSION CONTROL PLAN AND TYPICAL DETAILS
6098 ENG OPW 400	A	ROADWORKS AND DRAINAGE LAYOUT PLAN AND DETAILS
6098 ENG OPW 550	A	STORMWATER CALCULATIONS TABLE
6098 ENG OPW 600	A	SEWER RETICULATION LAYOUT PLAN AND DETAILS

CLIENT



FPI QUEENSLAND PTY. LTD.

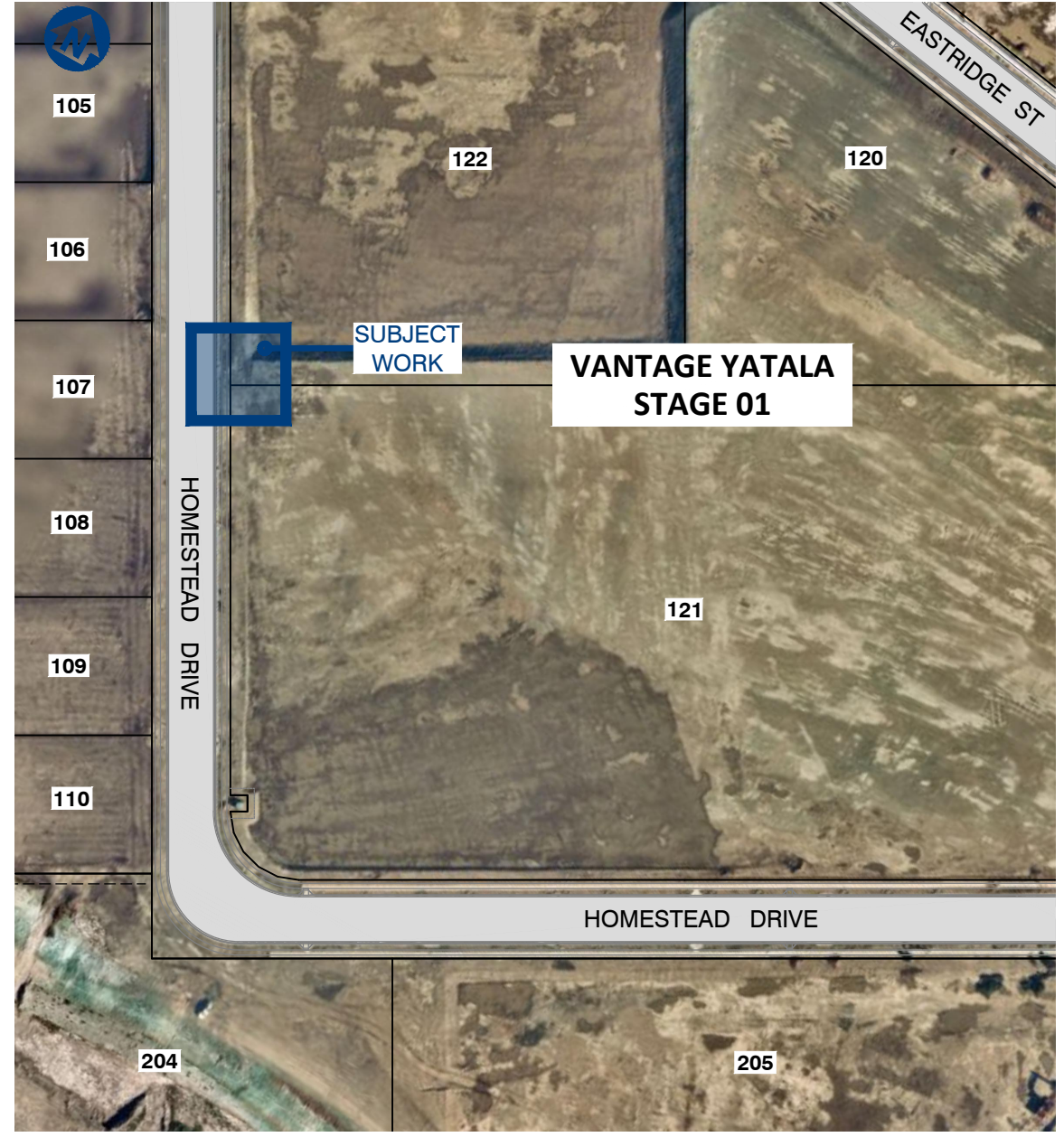
VantageYatala

SITE ADDRESS

LOT 121 & 122 on SP316168
HOMESTEAD DRIVE
STAPYLTON QLD 4207

DWG No. 6098 ENG OPW 001 – REV A

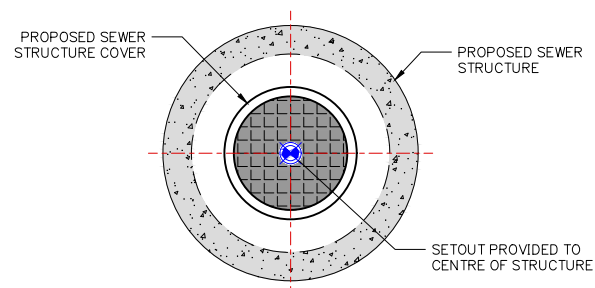
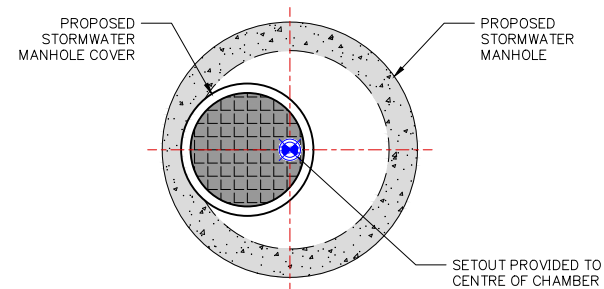
MARCH 2022



LOCALITY PLAN
SCALE 1: 1000 (A1)

GENERAL NOTES

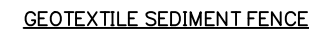
1. **CONTRACT DOCUMENTATION**
ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATION AND CoGC STANDARD DRAWINGS AND SPECIFICATIONS.
2. **DATUM**
LEVELS SHOWN ON THE PLANS ARE A.H.D.
3. **SURVEY SETOUT**
THE SURVEY SET OUT INFORMATION TO ALLOW THE CONTRACTOR TO ACCURATELY SET OUT THE WORKS HAS BEEN ESTABLISHED ON SITE BY THE PRINCIPAL’S SURVEYOR. THE CONTRACTOR IS NOT TO SCALE FROM THESE PLANS AS A MEANS OF OBTAINING SETOUT INFORMATION.
4. **EXISTING SURVEY CONTROL STATIONS**
IT IS THE CONTRACTOR’S RESPONSIBILITY TO ENSURE THAT EXISTING SURVEY CONTROL STATIONS ARE NOT DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES. SHOULD THE CONTRACTOR IDENTIFY ANY CONFLICT BETWEEN EXISTING SURVEY CONTROL AND THE REQUIRED CONSTRUCTION ACTIVITIES THE SUPERINTENDENT IS TO BE NOTIFIED IMMEDIATELY.
5. **EXISTING SERVICES**
THE LOCATION OF EXISTING SERVICES WHERE SHOWN ON THE PLANS ARE INDICATIVE ONLY. IT IS THE CONTRACTOR’S RESPONSIBILITY TO CONTACT THE RELEVANT SERVICE AUTHORITIES TO ASCERTAIN THE EXACT LOCATION OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORKS AND TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE EXISTING SERVICES.</





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- Diagram illustrating the construction of a gabion structure. The structure is composed of wire mesh panels held together by stakes driven into the ground. Key dimensions and components are labeled:
- STAKES DRIVEN 500-700mm INTO GROUND**: Indicates the depth of the stakes securing the structure.
 - 1.0m MIN**: Minimum length dimension.
 - 500mm MIN**: Minimum height dimension.
 - STEEL REINFORCEMENT MESH**: The mesh used for the structure's walls.
 - DIRECTION OF FLOW**: Indicated by arrows showing the flow direction relative to the structure.
 - 200 mm**: Dimension for the base layer or filter fabric.
 - GEOTEXTILE FILTER FABRIC (WOVEN) ON OUTER SIDE**: The filter fabric layer on the exterior of the structure.
 - DIRECTION OF FLOW OF MESH**: Indicated by an arrow showing the flow direction through the mesh.

NOTE:
FOURTH SIDE OF TRAP NOT SHOWN FOR CLARITY





LOT 122

RL14.6

REPLACE INLET GRATE TO BE
REMOVED AND REPLACED WITH
TYPE B MANHOLE COVER

RETAINING WALL APPROVED
UNDER COM/2022/13

- PROVIDE DRAINAGE EASEMENT FOR PROPOSED STORMWATER WORKS

— 1500DIA ACCESS CHAMBER WITH
CONVERTER SLAB AND 900x900
FIELD INLET WITH GALVANISED GRATE

- EXISTING FOOTPATH TO BE REMOVED AND REINSTATED AS PART OF SERVICE RELOCATION WORKS. NEW FOOTPATH TO BE CONSTRUCTED IN ACCORDANCE WITH IPWEQ STD DNG RS-065. EXISTING LEVELS AND GRADES ARE TO BE MAINTAINED. CONTRACTOR TO TIE IN NEW WORKS AT NEAREST EXISTING JOINT LOCATION

LOT 121

RL18.6

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

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

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

LINE 5A

LINE 5A



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Gold Coast & Logan | 176 Business Street, Yatala QLD | PO Box 392, Beenleigh 4207

Client:



FPI QUEENSLAND PTY. LTD.

Project:
LOTS 121 & 122 CIVIL WORKS
ASSOCIATED WITH 3 INTO 3 ROL

Site Address:
HOMESTEAD DRIVE,
STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:	
Lot:	120 - 122
Plan:	SP316168
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

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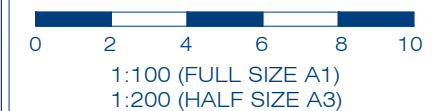
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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
ROADWORKS AND
DRAINAGE LAYOUT PLAN
AND DETAILS

[illegible]

SCALE IN METRES



Scale at A1:	1:100
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Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	11-03-2022

Drawing No:	Rev. No:
6098 ENG OPW 400	A

[illegible]

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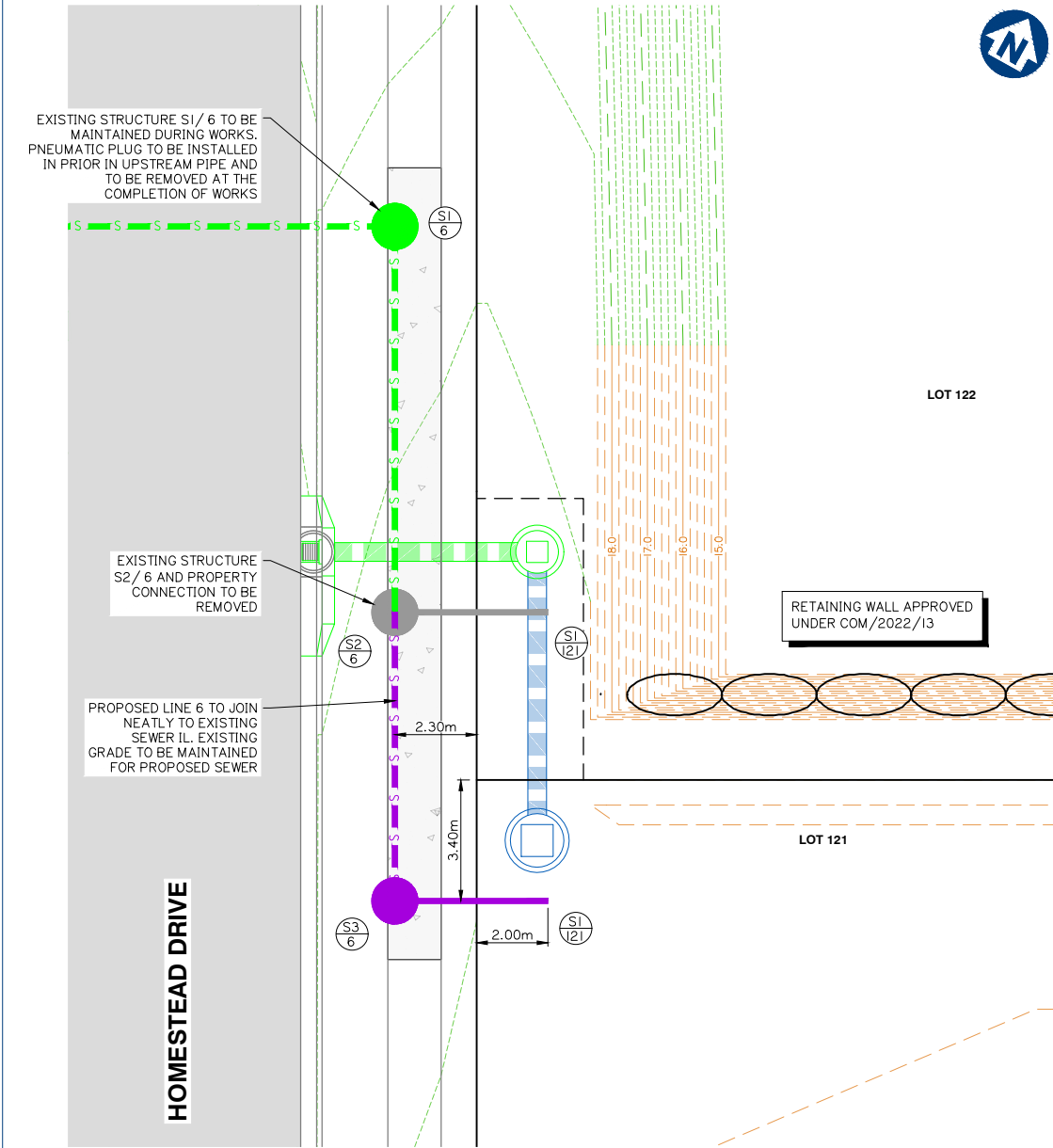
DRAWING TITLE

STORMWATER
CALCULATIONS TABLE

[illegible]

Scale at A1:	N/A
Designed:	JH
Drafted:	JH
Approved:	MG
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Signed:	
Date:	11-03-2022

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



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.

SEWER STRUCTURE SETOUT TABLE		
STRUCTURE NO.	EASTING	NORTHING
S3/6	2335.354	6787.406
S2/121	2339.115	6789.489

MAINTENANCE HOLE / SHAFT NAME

MH / MS COVER TYPE	D/C	D/C
MH / MS TYPE	P3	P3
MH / MS DROP TYPE	V	V
LINE DEFLECTION ANG. & BRANCHES	7°	90°
PROPERTY CONNECTION TYPE	-	X
INTERNAL CORROSION PROTECTION	Y	Y

RIGSS STRUCTURE DROPS		RIGSS STRUCTURE LIDS	
V	STRAIGHT THROUGH SEWER SEQ DWG SEQ-SEW-1303-1	B	NON-TRAFFICABLE LID
W	OBLIQUE 45° "Y" JUNCTION SEQ DWG SEQ-SEW-1303-1	D	TRAFFICABLE LID
X	INTERNAL BACKDROP SEQ DWG SEQ-SEW-1303-1	C	COMPOSITE
Z	VERTICAL DROP JUNCTION STD DWG SEQ-SEW-1314-1		

RIGSS STRUCTURE TYPES	
P3	1050mm DIA. PRE-CAST MAINTENANCE HOLE WITH CONVERSION SLAB AND PRE-CAST BASE. INSTALL DUCTILE IRON COVER SEQ STD DWG SEQ-SEW-1300-1
J1	TYPE "J1" MAINTENANCE STRUCTURE SEQ STD DWG SEQ-SEW-1314-2
BND	LONG RADIUS BEND (R3.0m) SEQ STD DWG SEQ-SEW-1314-3

RIGSS PROPERTY CONNECTION TYPES	
V	STRAIGHT THROUGH SEWER (250mm MAX. DROP FOR 150#) SEQ STD DWG SEQ-SEW-1303-1
W	OBLIQUE 45° "Y" JUNCTION (250mm-600mm DROP FOR 150#) SEQ STD DWG SEQ-SEW-1303-1
X	INTERNAL BACKDROP (600mm MIN. DROP FOR 150#) SEQ STD DWG SEQ-SEW-1303-1
Z	DROP JUNCTION TO DN300 RISER OF MAINTENANCE SHAFT SEQ STD DWG SEQ-SEW-1314-1 AND 1314-2

RIGSS GENERAL NOTES	
1	ALL uPVC SEWER PIPE TO BE CLASS SN8 INCLUDING ALL PROPERTY CONNECTIONS.
2	EMBEDMENT TYPES AS INDICATED ON LONGITUDINAL SECTIONS AND SEQ-SEW-1201-1
3	ALL BENDS TO BE LONG RADIUS BEND 3.0m RADIUS. REFER DWG SEQ-SEW-1314-3
4	ALL MAINTENANCE SHAFTS (MS) TO HAVE 300mmØ PVC RISERS UNLESS NOTED OTHERWISE
5	CONTRACTOR TO VERIFY DOWNSTREAM EXISTING PIPE LEVELS PRIOR TO COMMENCEMENT OF PIPEWORK.
6	POLYETHYLENE (PE) LINING TO BE INSTALLED TO ALL MAINTENANCE STRUCTURES TYPE P3. REFER LONGITUDINAL SECTIONS. REFER ALSO SEQ-SFS-1407-1-A & 2-B
7	WHERE NOTED ON THE DRAWINGS, CONTRACTOR TO CONSTRUCT BRIDGING SLAB SPANNING THE SEWER TRENCH. REFER TYPICAL SECTIONS AND DETAILS ON DWG No. 5941 ENG OPW 030
8	WHERE NOTED ON THE DRAWINGS, TRENCHSTOPS, BULKHEADS AND CONCRETE ENCASEMENTS TO BE INSTALLED IN ACCORDANCE WITH THE SEQ SEWER CODE.
9	ALL PROPERTY CONNECTIONS TO BE 150# uPVC CLASS SN8 UNLESS NOTED OTHERWISE.
10	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.
11	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(I) TO (VII) OF THE SEWERAGE CLAUSE. REFER SEQ CIVIL IPAM LIST.

DATUM RL	3.000
LOCATION DESCRIPTION	CoGC R/RESERVE
PIPE SIZE (mm), MATERIAL & CLASS	150, uPVC SN8
PIPE GRADE (1 IN X)	180
PIPE LENGTH	18.959
PIPE EMBEDMENT TYPE	
EXISTING SURFACE LEVEL	18.488
DEPTH TO PIPE INVERT BELOW FSL	3.625
PIPE INVERT LEVEL	14.863
PIPE CHAINAGE	0.000

LINE

6

LIVE WORKS SCHEDULE – SEWER

No	DESCRIPTION	DIA SEWER	MH No.	MH/MS TYPE	COVER TYPE	LOT No.	FSL	ESL	IL	DEPTH TO INVERT
I(A)	PNEUMATIC PLUG TO INSTALLED TO UPSTREAM LINE ON EXISTING STRUCTURE S1/6	150	S1/6	-	-	-	-	18.488	14.903	3.585
I(B)	CONTRACTOR TO REMOVE EXISTING STRUCTURE S2/6 AND EXISTING PROPERTY CONNECTION S2/121	150	S2/6	P3	D/C	121	-	18.647	14.963	3.684
I(C)	CONTRACTOR TO CONSTRUCT NEW MAINTENANCE HOLE S3/6		S3/6	P3	D/C	121	-	18.722	15.008	3.714
I(D)	CONTRACTOR TO LAY LINE 6 EXTENSION AND CONNECT TO EXISTING LINE 6	150					-			
I(E)	CONTRACTOR TO INSTALL PROPERTY CONNECTION	150				121	-		15.048	3.674
I(F)	CONTRACTOR TO REMOVE PNEUMATIC PLUG FROM EXISTING STRUCTURE S1/6 AFTER SUCCESSFUL 'ON MAINTENANCE' INSPECTION WITH COUNCIL		S1/6	-	-	-	-	18.488	14.903	3.585

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.

SEWER RETICULATION LAYOUT PLAN AND DETAILS

Client:



FPI QUEENSLAND PTY. LTD.

Project:

LOTS 121 & 122 CIVIL WORKS
ASSOCIATED WITH 3 INTO 3 ROL

Site Address:

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STAPYLTON QLD 4207

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Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
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DRAWING TITLE

SEWER RETICULATION
LAYOUT PLAN AND DETAILS

SCALE IN METRES



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

Scale at A1: 1:500

Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
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Date:	11-03-2022

Drawing No:
6098 ENG OPW 600

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