

LOT 6 SP274108
9 CHRISTENSEN RD SOUTH
STAPYLTON QLD 4207



LOCALITY PLAN
SCALE:NTS

Sheet List Table	
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C404	STORMWATER LONGITUDINAL SECTIONS

WARNING
THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING SERVICES ON AND EXTERIOR TO THE SITE INCLUDING WATER MAINS, SEWER MAINS, GAS MAINS, TELECOMMUNICATIONS CABLES, ELECTRICAL CABLES, AND STORMWATER PIPES. ANY DAMAGE TO EXISTING SERVICES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

REVISION
DATE



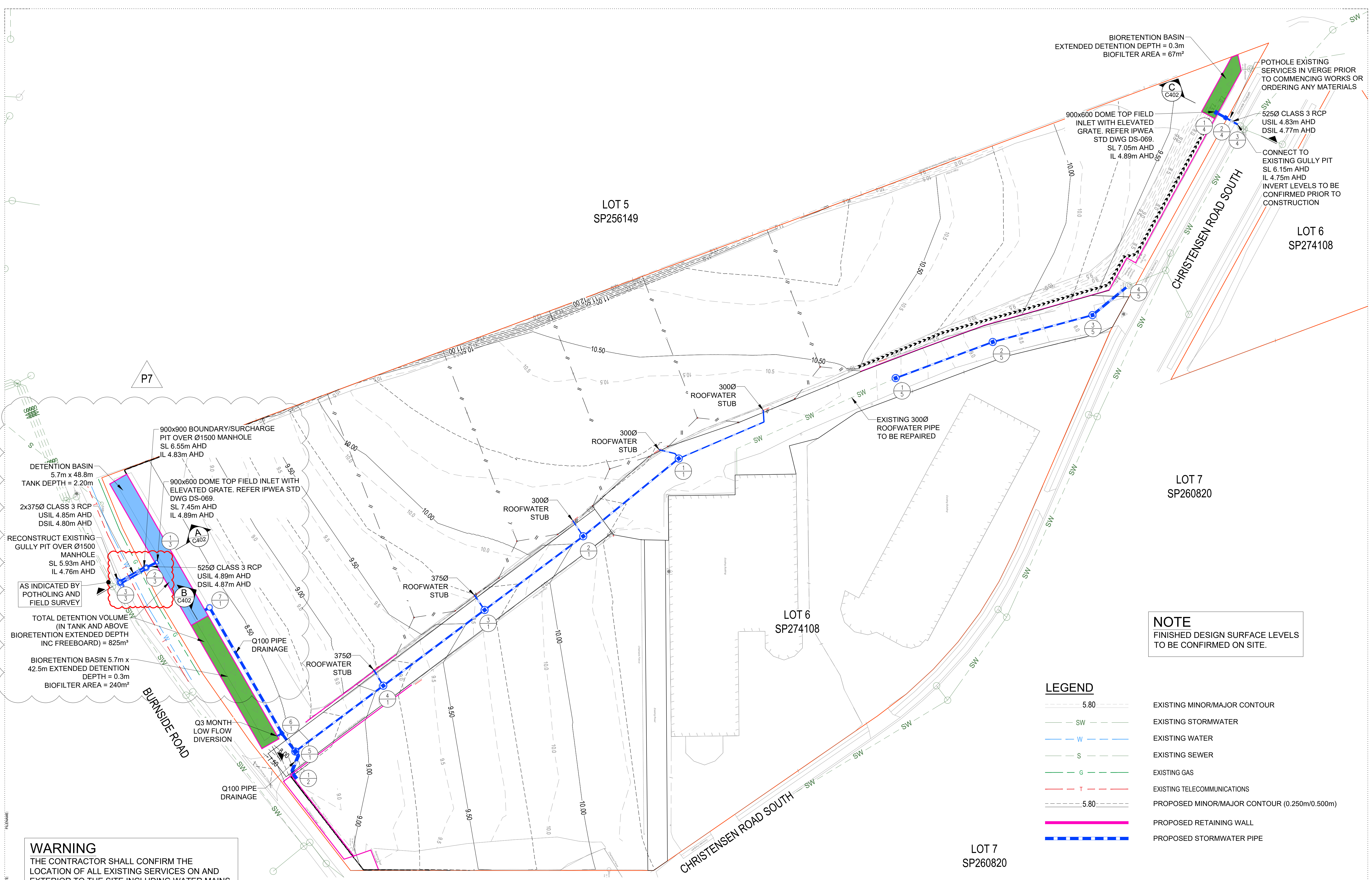
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RPEQ Name: ERIN HOGAN Sign: RPEQ No: 21411 Date: 20/12/23		EDGE CONSULTING ENGINEERS www.edgece.com Brisbane, Australia 1st Floor, 28 Adelaide Street, Woolloongabba, Queensland, 4102, Australia T: +61 7 3392 3671 E: brisbane@edgece.com The concepts + information contained in this document are the copyright of EDGE Consulting Engineers. Use or copying of this document in whole or in part without the written permission of EDGE Consulting Engineers constitutes an infringement of copyright. DO NOT SCALE DRAWINGS. IF IN DOUBT, ASK!		Project Name 9 CHRISTENSEN RD SOUTH STAPYLTON QLD 4207 STORMWATER WORKS Client ALISTAIR LE PLASTRIER Designed AK Drawn AK Checked KO Scale © A1 AS SHOWN		Drawing Title LOCALITY PLAN AND DRAWING INDEX Project No. 210388 Drawing No. C001 Revision P2	
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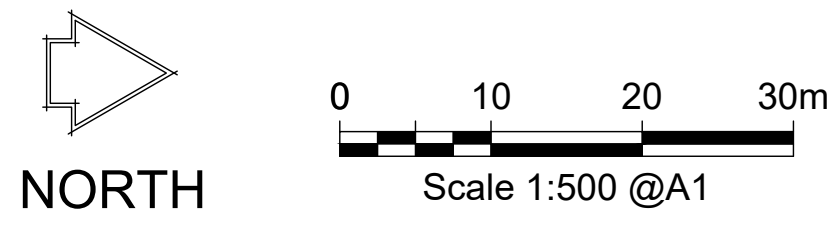
1. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM
2. ALL WORKS TO BE IN ACCORDANCE WITH GOLD COAST CITY COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS (UNO).
3. ALL SERVICE AUTHORITIES SHALL BE NOTIFIED IN WRITING SEVEN DAYS PRIOR TO COMMENCEMENT OF WORKS.
4. TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF TBM'S THEREAFTER.
5. INSTALL ALL VEGETATION PROTECTION, EROSION AND SEDIMENT CONTROL, AND SITE SPECIFIC MEASURE PRIOR TO COMMENCEMENT OF ANY WORK.
6. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK ALL EXISTING SERVICES AND STRUCTURES ARE TO BE MAINTAINED IN GOOD ORDER FOR THE DURATION OF THE CONTRACT ANY COSTS ASSOCIATED WITH REPAIRING DAMAGE TO EXISTING SERVICES SHALL BE BORNE BY THE CONTRACTOR.
7. THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS SHALL BE PROVEN ON SITE THE APPROPRIATE AUTHORITY SHALL BE CONTACTED AND THE SERVICES LOCATED PRIOR TO COMMENCEMENT OF CONSTRUCTION.

1. ALL PIPES LESS THAN OR EQUAL TO Ø225mm ARE TO BE SOLVENT WELD-JOINTED SEWER GRADE uPVC CLASS SH, OR (min) CLASS 2 RUBBER-RING JOINTED RCP (UNO).
2. PIPES GREATER THAN OR EQUAL TO Ø300mm ARE TO BE (min) CLASS 2 RUBBER-RING JOINTED RCP (UNO).
3. FRC PIPES EQUIVALENT TO THE STEEL REINFORCED CONCRETE PIPE CLASS SPECIFIED ON THE DRAWINGS MAY BE USED - OBTAIN SUPERINTENDENTS APPROVAL.
4. ALL PIPES ARE TO BE LAID AT (min) 1.0% GRADE (UNO)
5. THE USE OF PRE-CAST STORMWATER DRAINAGE PITS IS NOT ACCEPTED WITHOUT CONFIRMATION BETWEEN EDGE AND THE CONTRACTOR REGARDING QUALITY CONTROL, AND CERTIFICATION OF FINISHES.
6. **COVERS**
 - 6.1. USE HOT DIPPED GALVANISED COVERS AND GRATES COMPLYING WITH RELEVANT AUSTRALIAN AND COUNCIL STANDARDS.
 - 6.2. ALL COVERS AND GRATES TO BE POSITIONED IN A FRAME AND MANUFACTURE AS A UNIT
 - 6.3. ALL COVERS AND GRATES TO BE FITTED WITH POSITIVE COVER LIFTING KEYS.
 - 6.4. OBTAIN SUPERINTENDENT'S APPROVAL FOR THE USE OF CAST IRON SOLID COVERS AND GRATES. CAST IRON SOLID COVERS (IF APPROVED) TO CONSIST OF CROSS-WEBBED, CELLULAR CONSTRUCTION WITH THE RIBS UPPERMOST TO ALLOW INFILLING WITH CONCRETE. INSTALL POSITIVE COVER LIFTING KEYS AND PLASTIC PLUGS.
 - 6.5. UNLESS DETAILED OR SPECIFIED OTHERWISE COVERS AND GRATES TO BE CLASS "C" IN VEHICULAR PAVEMENTS AND CLASS "B" ELSEWHERE.
7. ALL PIPE BENDS, JUNCTIONS, ETC. ARE TO BE PROVIDED USING PURPOSE MADE FITTINGS OR STORMWATER PITS.
8. ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT PIPE PENETRATIONS SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
9. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTERS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
10. U.N.O. MATERIAL USED FOR BEDDING OF PIPES SHALL BE APPROVED NON-COHESIVE GRANULAR MATERIAL HAVING HIGH PERMEABILITY AND HIGH STABILITY WHEN SATURATED AND FREE OF ORGANIC AND CLAY MATERIAL.
11. WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN. 50mm CONCRETE BED (OR 75mm THICK BED OF 12mm BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR ON THE ROCK.
12. BEDDING SHALL BE (UNO) TYPE HS2 UNDER ROADS; H2 GENERAL AREAS, IN ACCORDANCE WITH CURRENT RELEVANT INDUSTRY STANDARDS AND ARCHITECTS.
13. THE WEATHER PROOFING OF THE BUILDING IS THE ARCHITECT'S /BUILDER'S RESPONSIBILITY. THIS INCLUDES THE SPECIFICATION AND FIXING DETAILS OF CLADDINGS, SHEETING, FLASHING AND MEMBRANES.
14. THE CONTRACTOR SHALL ENSURE AND PROTECT THE INTEGRITY OF ALL STORMWATER PIPES DURING CONSTRUCTION. ANY AND ALL DAMAGE TO THESE PIPES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE SUPERINTENDENT, AND AT NO EXTRA COST.
15. NOTE THAT THE PIT COVER LEVEL NOMINATED IN GUTTERS ARE TO THE INVERT OF THE GUTTER WHICH ARE 40mm LOWER THAN THE PAVEMENT LEVEL AT LIP OF GUTTER.
16. Ø100mm SUB-SOIL DRAINAGE LINES WITH NON-WOVEN GEOTEXTILE SOCK SURROUND SHALL BE CONNECTED TO A STORMWATER DRAINAGE PIT (AT min. 1% LONGITUDINAL GRADE) AND PROVIDED IN THE FOLLOWING LOCATIONS:
 - 17.1 THE HIGH SIDE OF PROPOSED TRAFFICKED AND CARPARK PAVEMENT AREAS.
 - 17.2 ALL PLANTER AND TREE BEDS PROPOSED ADJACENT TO PAVEMENT AREAS.
 - 17.3 BEHIND RETAINING WALLS (IN ACCORDANCE WITH DRAWINGS).
 - 17.4 ALL OTHER AREAS SHOWN ON THE DRAWINGS.
17. THE CONTRACTOR SHALL INSTALL INSPECTION OPENINGS TO ALL SUBSOIL DRAINAGE LINES AND DOWNPIPE LINES AS SPECIFIED ON DRAWINGS, AT MAXIMUM 60m CENTERS AND AT ALL UPSTREAM ENDPOINTS.
18. WHERE SUBSOIL DRAINAGE LINES PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS SEALED uPVC SEWER GRADE PIPE SHALL BE USED.
19. PROVIDE 3.0m LENGTH OF Ø100 SUBSOIL DRAINAGE PIPE WRAPPED IN A NON-WOVEN GEOTEXTILE FABRIC, TO THE UPSTREAM SIDE OF STORMWATER PITS, LAID IN STORMWATER PIPE TRENCHES AND CONNECTED TO THE DRAINAGE PIT.
20. ALL RECTANGULAR HOLLOW SECTIONS (RHS) SPECIFIED AS STORMWATER CONDUITS TO BE HOT DIPPED GALVANISED AND HAVE (MINIMUM) 5mm WALL THICKNESS.

[illegible]



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Sign:
RPEQ No: 21411
Date: 19.12.23

P7 19.12.23 FOR APPROVAL	ND	KO
P6 13.11.23 FOR APPROVAL	KW	KO
P5 18.08.22 MINOR UPDATES AS PER CLIENT REQUEST	MS	MS
P4 16.08.22 MINOR UPDATES AS PER CLIENT REQUEST	MS	MS
P3 23.09.21 FOR APPROVAL	MS	EH
P2 27.08.21 FOR CLIENT REVIEW	MS	EH
P1 22.03.21 FOR CLIENT REVIEW	PH	EH
Rev	Date	Description
By	CHK	

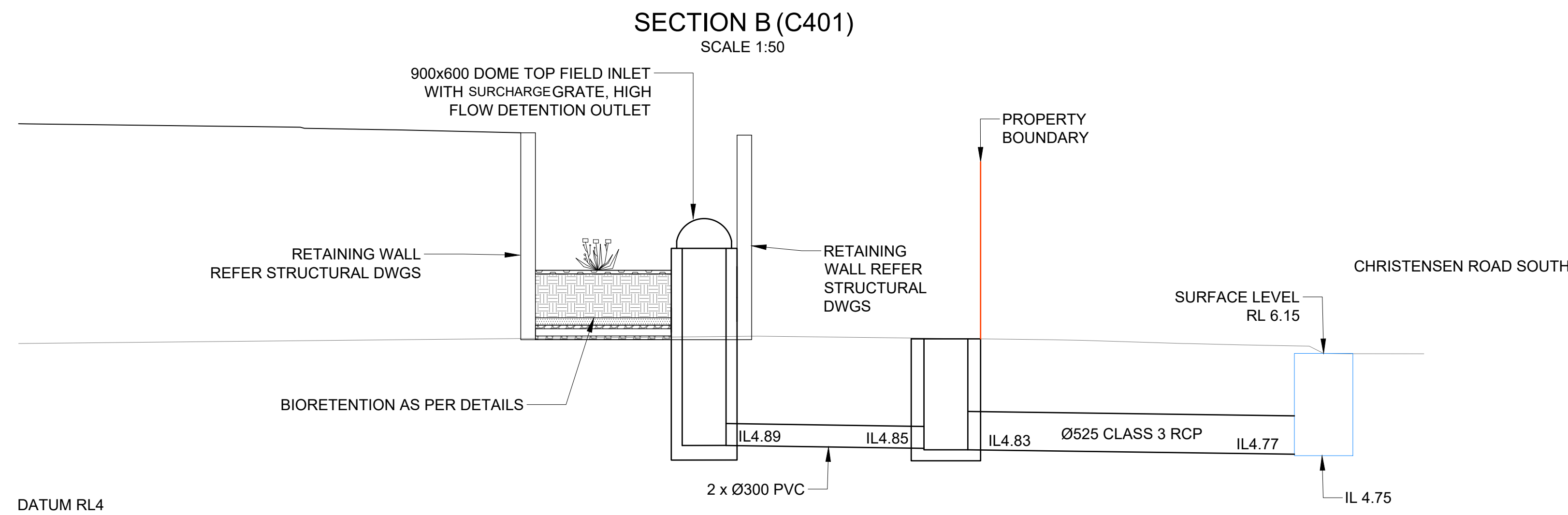
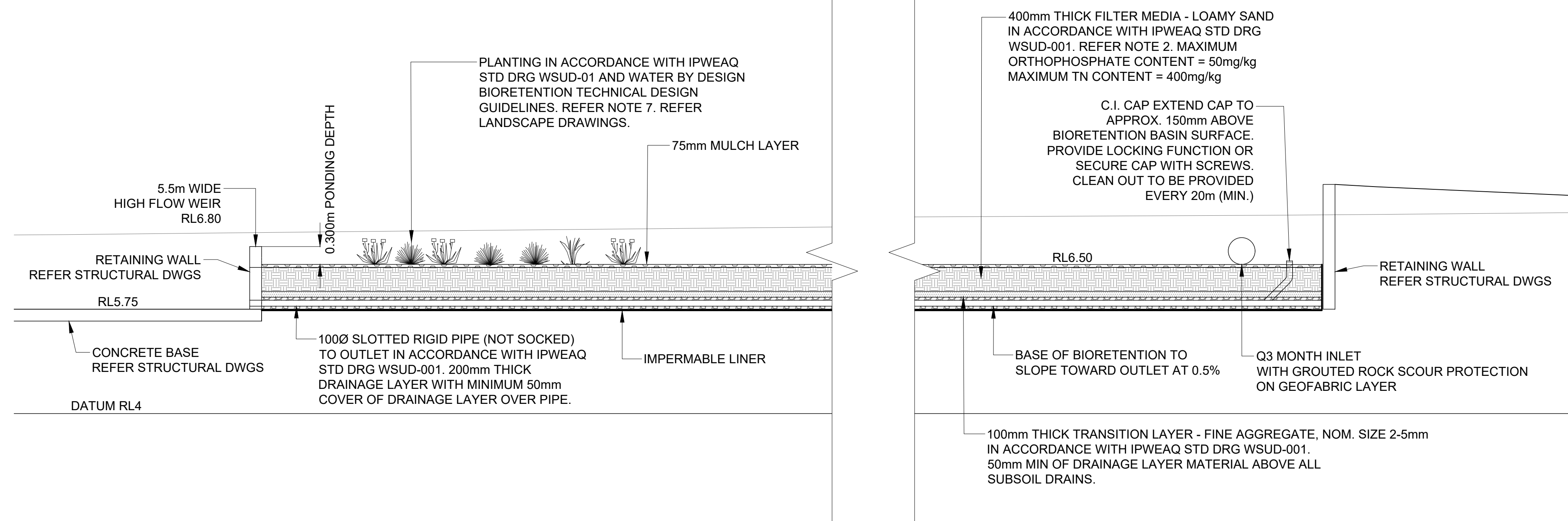
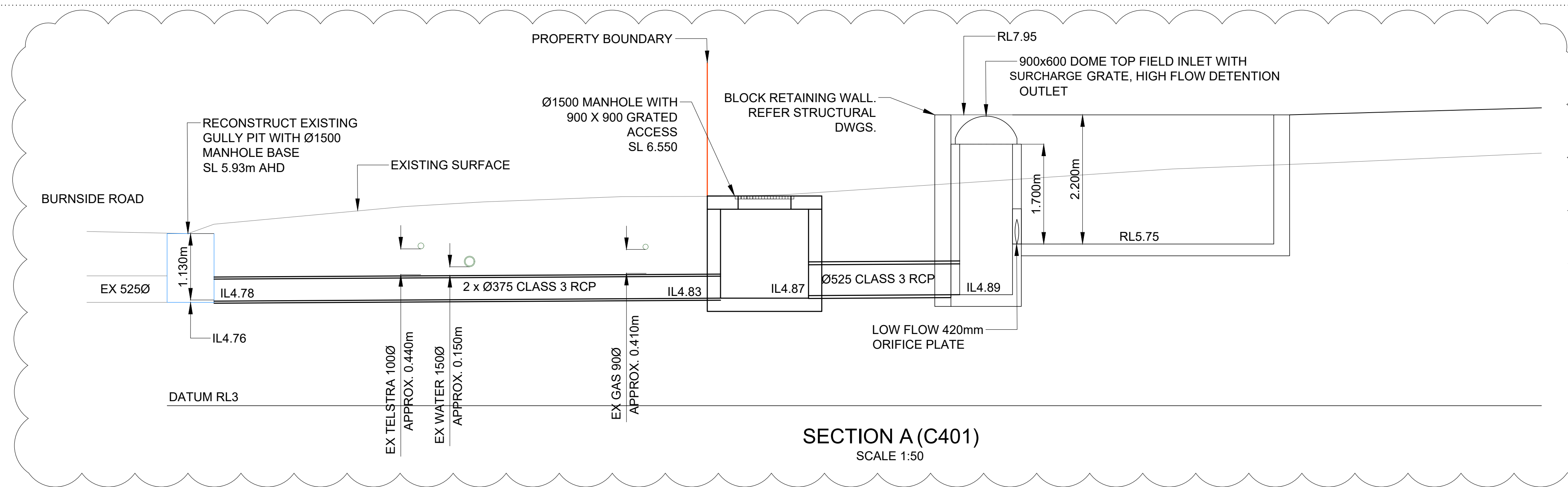
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LEGEND		
	5.80	EXISTING MINOR/MAJOR CONTOUR
	SW	EXISTING STORMWATER
	W	EXISTING WATER
	S	EXISTING SEWER
	G	EXISTING GAS
	T	EXISTING TELECOMMUNICATIONS
	5.80	PROPOSED MINOR/MAJOR CONTOUR (0.250m/0.500m)
		PROPOSED RETAINING WALL
		PROPOSED STORMWATER PIPE

Project Name 9 CHRISTENSEN RD SOUTH STAPYLTON QLD 4207 STORMWATER WORKS			Drawing Title STORMWATER LAYOUT PLAN	
Client ALISTAIR LE PLASTRIER			Project No. 210388	
Designed PH	Drawn EH	Checked EH	Drawing No. C401	Revision P7
Scale @ A1 1:500			PRELIMINARY	

P6



WARNING

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0 1 2 3m
Scale 1:50 @A1

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RPEQ No: 21411
Date: 19.12.23

P6	19.12.23	FOR APPROVAL	ND	KO
P5	13.11.23	FOR APPROVAL	KW	KO
P4	18.08.22	MINOR UPDATES AS PER CLIENT REQUEST	MS	MS
P3	23.09.21	FOR APPROVAL	MS	EH
P2	27.08.21	FOR CLIENT REVIEW	MS	EH
P1	22.03.21	FOR CLIENT REVIEW	PH	EH
Rev	Date	Description	By	Chk

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Project Name
**9 CHRISTENSEN RD SOUTH
STAPYLTON QLD 4207
STORMWATER WORKS**

Client
ALISTAIR LE PLASTRIER

Designed PH
Checked EH
AS SHOWN

Drawing Title
STORMWATER SECTION & DETAILS

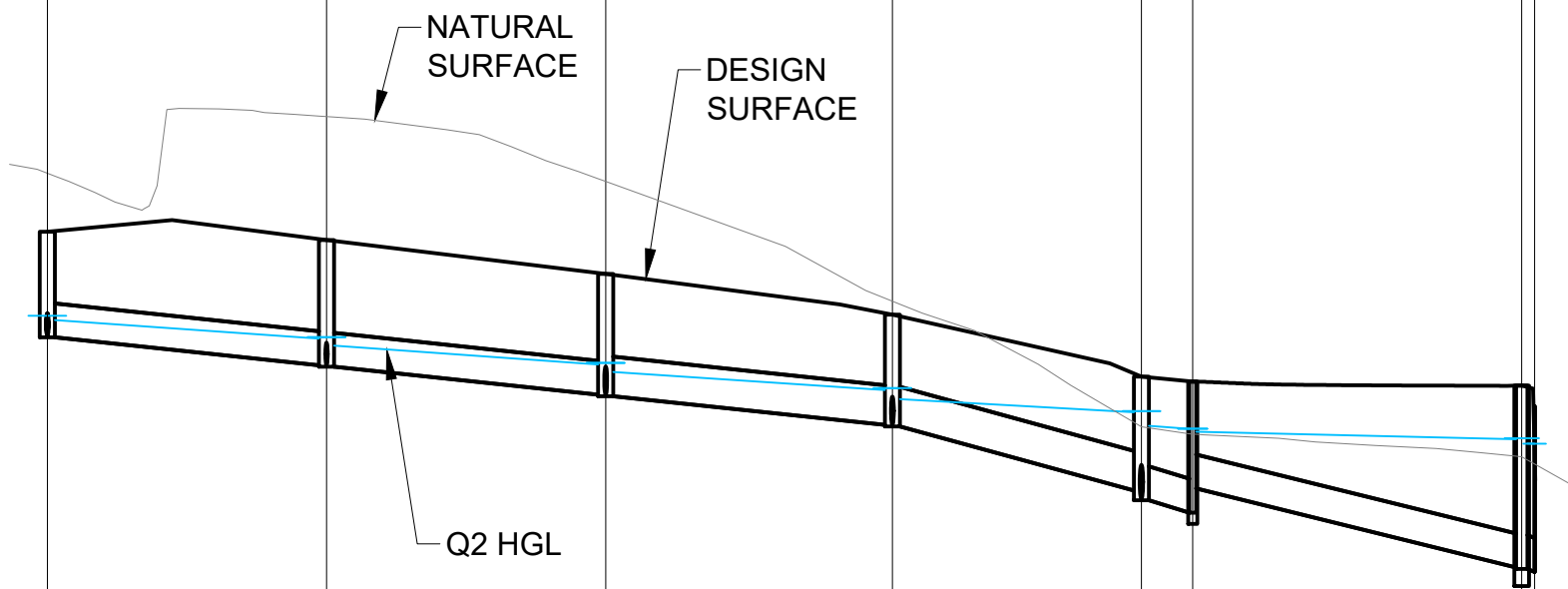
Project No.
210388

Drawing No.
C402

Revision
P6

PRELIMINARY

STRUCTURE NAME	1/1	2/1	3/1	4/1	5/1	6/1	7/1	DT/1
STRUCTURE DESCRIPTION	900 x 600 GRATED INLET PIT REFER GCCC STD DWG 03-008	900 x 600 GRATED INLET PIT REFER GCCC STD DWG 03-008	900 x 600 GRATED INLET PIT REFER GCCC STD DWG 03-008	900 x 600 GRATED INLET PIT REFER GCCC STD DWG 03-008	1200 x 1200 GRATED INLET PIT REFER GCCC STD DWG 03-008	900 x 600 GRATED INLET PIT REFER GCCC STD DWG 03-008	1500Ø MANHOLE GCCC STD DWG 03-101	DETENTION BASIN

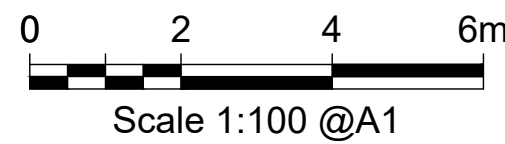


PIPE SIZE (mm)	450Ø	450Ø	525Ø	525Ø	(2x)450Ø	(2x)450Ø	(2x)450Ø	
PIPE CLASS	HDPE	HDPE	HDPE	HDPE	HDPE	HDPE	HDPE	
PIPE GRADE (%)	1.00%	1.00%	1.00%	2.58%	2.40%	2.40%	2.38%	
PIPE SLOPE (1 in X)	1 in 100	1 in 100	1 in 100	1 in 39	1 in 42	1 in 42	1 in 42	
FULL PIPE VELOCITY (m/s)	0.68	1.00	1.05	1.32	1.39	0.86	0.84	
PART FULL VELOCITY (m/s)	1.67	1.84	2.01	3.04	2.78	2.45	2.42	
DATUM RL	-6.0							
H.G.L IN PIPE & W.S.E IN STRUCTURE	9.147 9.089	8.843 8.862 8.750	8.501 8.522 8.401	8.163 8.187 8.042	7.867 7.883 7.688	7.647 7.661 7.609	7.509 7.523 7.454	7.450 7.450 7.450
PIPE FLOW (m3/s)		0.108	0.159	0.226	0.285	0.443	0.273	0.266
PIPE CAPACITY (m3/s)		0.285	0.285	0.430	0.691	0.884	0.884	0.880
DEPTH OF INVERT	1.400	1.660	1.620	1.460	1.510	1.738	2.411	2.200
INVERT LEVEL OF DRAIN	8.860	8.490 8.470	8.100 8.080	7.700 7.680	6.830 6.700	6.537 6.857	5.810 5.790	5.750 5.750
DESIGN SURFACE LEVEL	10.260	10.150	9.700	9.160	8.340	8.275	8.222	7.950
SETOUT COORDINATES	E 1451.892 N 1070.592	E 1475.007 N 1041.701	E 1496.918 N 1011.886	E 1519.422 N 981.266	E 1538.964 N 954.675	E 1533.454 N 950.693	E 1495.468 N 929.278	E 1496.303 N 927.797
CHAINAGE	0.000	37.000	74.000	112.000	145.000	151.802	195.408	197.108

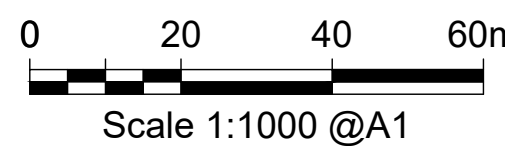
LINE

1

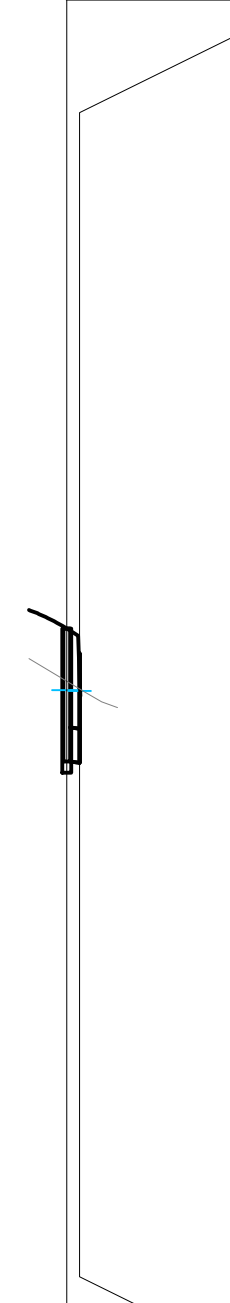
VERTICAL



HORIZONTAL



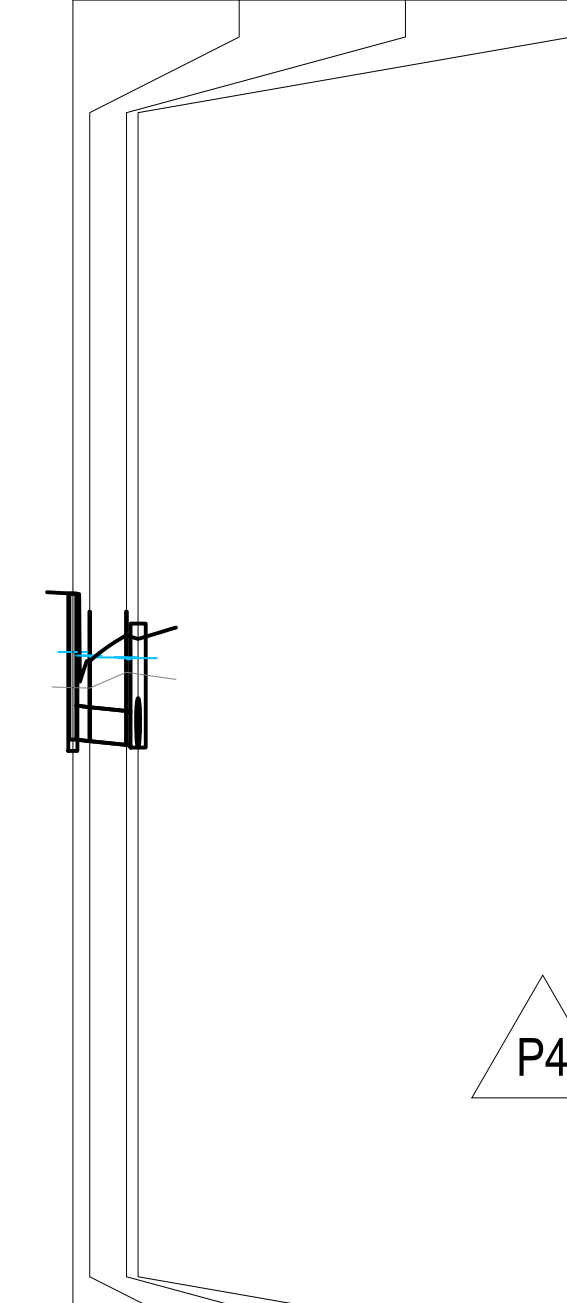
6/1	900 x 600 GRATED INLET PIT REFER GCCC STD DWG 03-008
DT/1	DETENTION BASIN



450Ø	HDPE	1.00%	1 in 100	1.43	1.99	-7.0	7.964 7.918 7.916 7.918 7.895 7.891 7.893 7.868 7.867 7.883 7.688	0.158	0.570	0.157	0.324	0.319	0.262	5.450 5.450 5.429 5.435 5.397 5.310 5.310 5.310	0.163	0.213	0.468	6.121 5.957 5.934 5.934 5.957 5.950 5.950 5.950	0.061	0.068	0.076	8.821 8.769 7.709 7.710 7.700 6.866 6.872 6.840 6.483 6.483 6.483	0.061	0.527	0.461	0.289	10.000 10.000 8.920 8.920 8.900 8.900 8.900 8.900	31.108	31.108	31.047	62.155	14.038	76.193	1206.172
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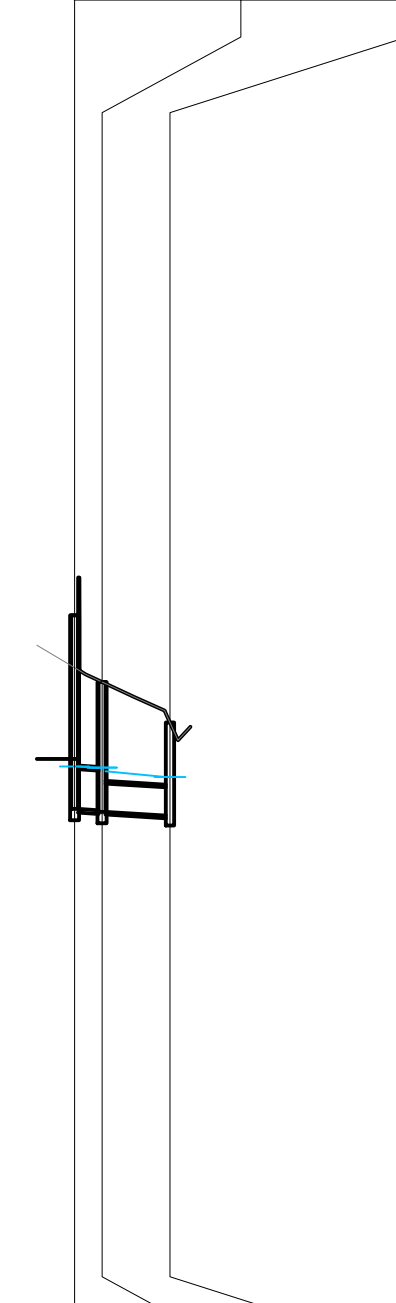
1/2	1200 x 1200 GRATED INLET PIT REFER GCCC STD DWG 03-008	PIPE BEND	PIPE BEND	1200 x 1200 GRATED INLET PIT REFER GCCC STD DWG 03-008
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(2x)450Ø	PVC	1.00%	1 in 100	0.50	1.53	-7.0	7.964 7.918 7.916 7.918 7.895 7.891 7.893 7.868 7.867 7.883 7.688	0.158	0.570	0.157	0.324	0.319	0.262	5.450 5.450 5.429 5.435 5.397 5.310 5.310 5.310	0.163	0.213	0.468	6.121 5.957 5.934 5.934 5.957 5.950 5.950 5.950	0.061	0.068	0.076	8.821 8.769 7.709 7.710 7.700 6.866 6.872 6.840 6.483 6.483 6.483	0.061	0.527	0.461	0.289	10.000 10.000 8.920 8.920 8.900 8.900 8.900 8.900	31.108	31.108	31.047	62.155	14.038	76.193	1206.172
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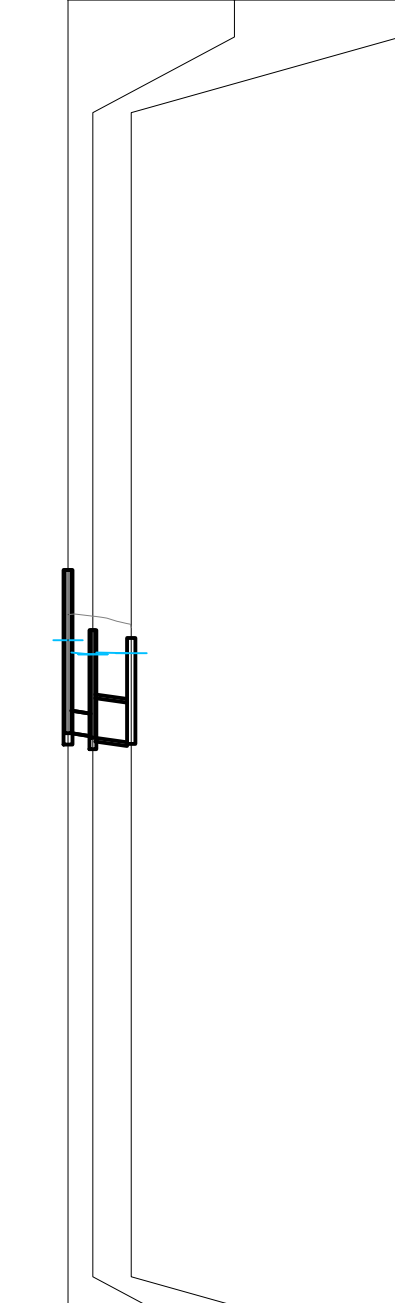
1/3	900 x 600 DOME TOP INLET PIT REFER IPWEA STD DWG DS-069	900 x 900 GRATE OVER Ø1500 MANHOLE	RECONSTRUCT EXISTING GULLY PIT OVER Ø1500 MANHOLE
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525Ø	3	0.55%	1 in 182	1.50	1.68	-8.0	5.450 5.450 5.429 5.435 5.397 5.310 5.310 5.310	0.324	0.319	0.262	0.324	0.319	0.262	5.450 5.450 5.429 5.435 5.397 5.310 5.310 5.310	0.163	0.213	0.468	6.121 5.957 5.934 5.934 5.957 5.950 5.950 5.950	0.061	0.068	0.076	8.821 8.769 7.709 7.710 7.700 6.866 6.872 6.840 6.483 6.483 6.483	0.061	0.527	0.461	0.289	10.000 10.000 8.920 8.920 8.900 8.900 8.900 8.900	31.108	31.108	31.047	62.155	14.038	76.193	1206.172
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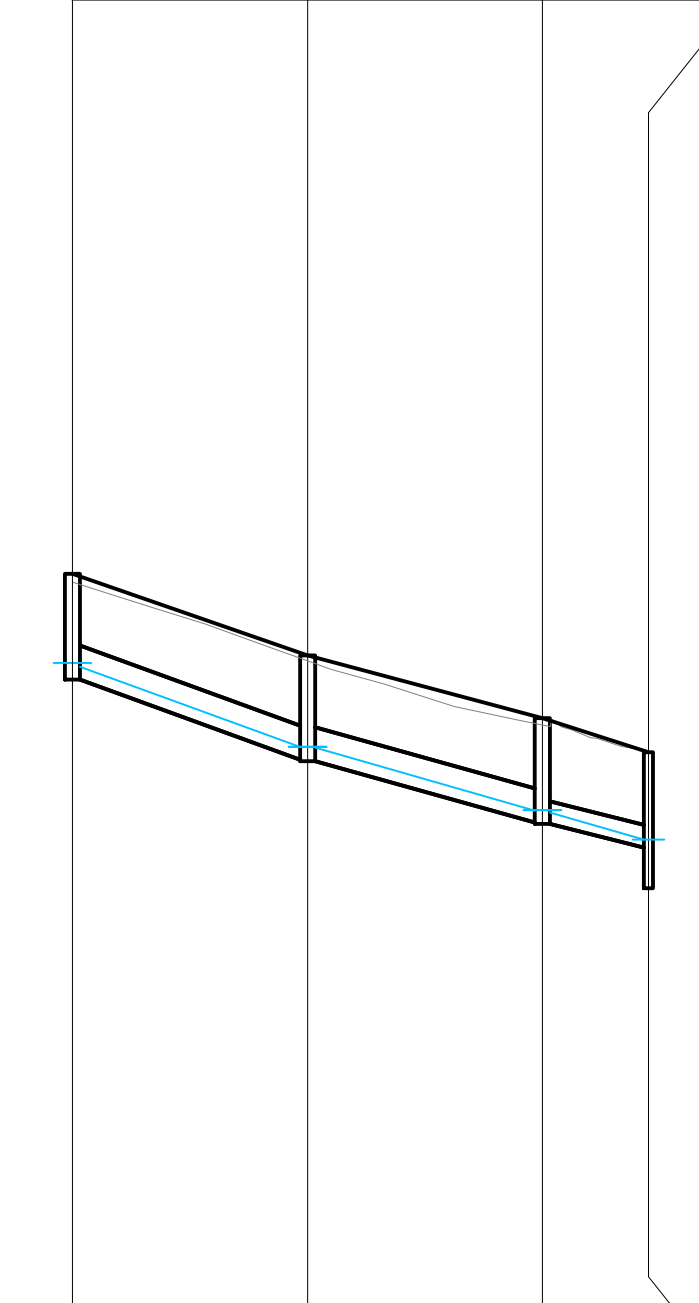
1/4	900 x 600 DOME TOP INLET PIT REFER IPWEA STD DWG DS-069	900 x 600 GRATED INLET PIT REFER GCCC STD DWG 03-008	EXISTING GULLY PIT
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(2x)300Ø	PVC	1.22%	1 in 82	1.16	1.66	-9.0	6.121 5.957 5.934 5.934 5.957 5.950 5.950 5.950	0.163	0.213	0.468	0.163	0.213	0.468	6.121 5.957 5.934 5.934 5.957 5.950 5.950 5.950	0.163	0.213	0.468	6.121 5.957 5.934 5.934 5.957 5.950 5.950 5.950	0.061	0.068	0.076	8.821 8.769 7.709 7.710 7.700 6.866 6.872 6.840 6.483 6.483 6.483	0.061	0.527	0.461	0.289	10.000 10.000 8.920 8.920 8.900 8.900 8.900 8.900	31.108	31.108	31.047	62.155	14.038	76.193	1206.172
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4

1/5	900 x 600 GRATED INLET PIT REFER GCCC STD DWG 03-008	900 x 600 GRATED INLET PIT REFER GCCC STD DWG 03-008	900 x 600 GRATED INLET PIT REFER GCCC STD DWG 03-008	EXISTING MANHOLE
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450Ø	PVC	3.41%	1 in 29	0.38	2.20	-6.0	8.821 8.769 7.709 7.710 7.700 6.866 6.872 6.840 6.483 6.483 6.483	0.061	0.527	0.461	0.076	0.289	0.289	8.821 8.769 7.709 7.710 7.700 6.866 6.872 6.840 6.483 6.483 6.483	0.061	0.527	0.461	0.076	8.821 8.769 7.709 7.710 7.700 6.866 6.872 6.840 6.483 6.483 6.483	0.061	0.527	0.461	0.289	10.000 10.000 8.920 8.920 8.900 8.900 8.900 8.900	31.108	31.108	31.047	62.155	14.038	76.193	1206.172
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P4 19.12.23 FOR APPROVAL	ND	KO
P3 14.12.22 MINOR UPDATES AS PER CLIENT REQUEST	MS	MS
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P1 23.09.21 FOR APPROVAL	MS	EH

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Project Name	9 CHRISTENSEN RD SOUTH STAPYLTON QLD 4207 STORMWATER WORKS
Client	ALISTAIR LE PLASTRIER
Designed	MS
Checked	EH
Scale	AS SHOWN

Drawing Title	STORMWATER LONGITUDINAL SECTIONS
Project No.	210388
Drawing No.	C404
Revision	P4

PRELIMINARY