Stantec

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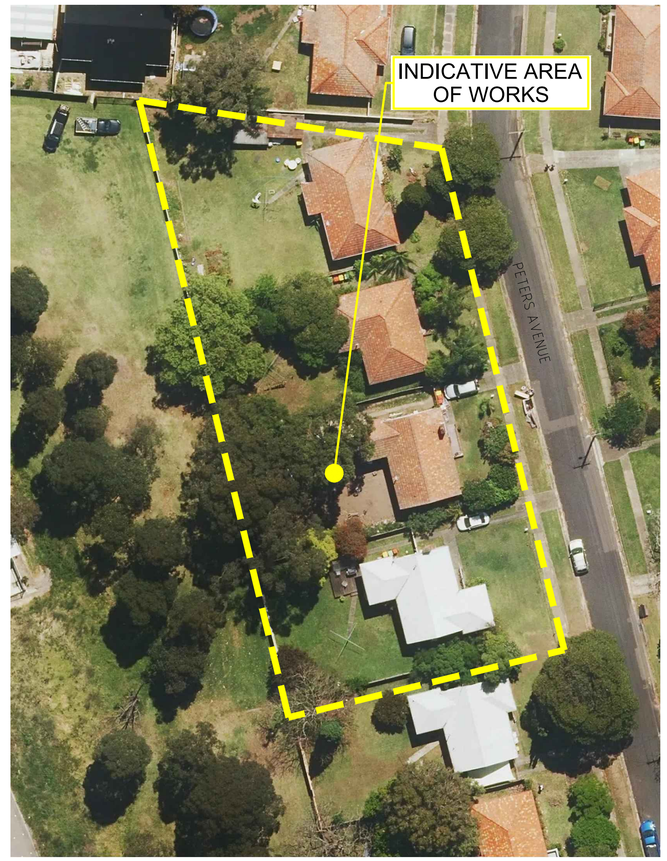
LAHC & SAMCRAWFORD ARCHITECTS

PROPOSED DEVELOPMENT AT 6-12 PETERS AVENUE WALLSEND 2287

COVER SHEET, LOCALITY PLAN AND SCHEDULE OF DRAWINGS

SCHEDULE OF DRAWINGS	
DRAWING No.	DESCRIPTION
	GENERAL
80822045-CI-0001	COVER SHEET, LOCALITY PLAN AND SCHEDULE OF DRAWINGS
80822045-CI-0002	CIVIL CONSTRUCTION NOTES
	PLANS AND SCHEDULES
80822045-CI-1101	STORMWATER DRAINAGE PLAN GROUND FLOOR
80822045-CI-1102	PIT SCHEDULE
80822045-CI-1201	SEDIMENTATION AND EROSION CONTROL PLAN
	STANDARD DETAILS
80822045-CI-2101	STORMWATER DETAILS SHEET 1
80822045-CI-2103	STORMWATER DETAILS SHEET 2 - OSD DETAILS
80822045-CI-2201	SEDIMENTATION AND EROSION CONTROL DETAILS



LOCALITY PLAN
N.T.S

Rev.	Date	Description	Des.	Verif.	Appd.
5	10/02/2023	PRELIMINARY ISSUE	PDP	JMB	
4	26/07/2022	PRELIMINARY ISSUE	K.P.	C.F.	
3	08.06.2022	PRELIMINARY ISSUE	K.P.	C.F.	
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1	28.03.2022	PRELIMINARY ISSUE	K.P.	C.F.	

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ACN 165 409 567 Nominated Architect Sam Crawford 6498

Drawn K.P.	Date MAR'2022	Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES
Checked K.P.	Date MAR'2022		
Designed K.P.	Date MAR'2022		
Verified C.F.	Date MAR'2022	Datum AHD	Scale NTS / Size A1
Approved		Drawing Number 80822045-CI-0001	Revision 5

GENERAL CIVIL NOTES

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS, SPECIFICATIONS, STANDARDS, LOCAL GOVERNMENT ORDINANCES AND ADDITIONAL WRITTEN INSTRUCTIONS THAT MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
2. THE INFORMATION CONTAINED ON THESE DRAWINGS IS FOR CIVIL ENGINEERING PURPOSES ONLY.
3. ALL DISCREPANCIES THAT COULD RESULT IN CHANGES TO THE CIVIL DETAILS SHALL BE REFERRED TO THE CIVIL ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
   IF IN DOUBT ASK
4. THE CONTRACTOR SHALL CHECK AND BE RESPONSIBLE FOR THE CORRECTNESS OF ALL DIMENSIONS AND ANY DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE SUPERINTENDENT. DIMENSIONS SHALL NOT BE OBTAINED (INCLUSIVE OF ELECTRONIC COPIES) BY SCALING FROM THE DRAWINGS.
5. ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES U.N.O.
6. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THE SAFETY AND STABILITY OF NEW AND EXISTING STRUCTURES, TEMPORARY STRUCTURES, EXCAVATIONS, SHORING AND THE LIKE DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FORTY EIGHT (48) HOURS BEFORE ANY SITE INSPECTION IS REQUIRED.
8. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT AUSTRALIAN STANDARDS AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.
9. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH ALL WORKCOVER REQUIREMENTS AND OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS.
10. ALL PROPRIETARY PRODUCTS AND APPROVED EQUIVALENTS NOTED ON THE DRAWINGS SHALL BE SUPPLIED AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
11. SUBSTITUTIONS OF NOMINATED PRODUCTS AND MATERIALS SHALL ONLY OCCUR IF APPROVED BY CARDNO. NO SUBSTITUTIONS SHALL BE MADE OR SIZES OF STRUCTURAL MEMBERS VARIED WITHOUT OBTAINING THE APPROVAL OF THE ENGINEER. THE APPROVAL OF A SUBSTITUTION FROM THE ENGINEER SHALL NOT BE AN AUTHORISATION FOR AN EXTRA EXPENSE CLAIM. ANY EXTRA COST INVOLVED SHALL BE TAKEN UP WITH THE SUPERINTENDENT BEFORE THE WORK COMMENCES.
12. NO CHANGES SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.
13. CONSTRUCTION FROM THESE DRAWINGS AND ASSOCIATED CONSULTANTS' DRAWINGS SHALL NOT COMMENCE UNTIL APPROVED BY THE LOCAL AUTHORITIES AND PRINCIPAL CERTIFYING AUTHORITY.
14. CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS OR PROPERTIES WITHOUT THE PERMISSION OF THE OWNERS AND SUPERINTENDENT.
15. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL WHICH COMPLIES WITH AS1742.3 - 2018. A COPY OF THE PLAN SHOWING LAYOUT OF PROPOSED TRAFFIC CONTROL FOR THE COMMENCEMENT OF WORK AND CERTIFIED BY A SUITABLY QUALIFIED PERSON IS TO BE SUBMITTED TO COUNCIL PRIOR TO COMMENCEMENT OF ANY WORK. FURTHER PLANS ARE TO BE SUBMITTED IF WORK SITE ALTERS.
16. ANY QUANTITIES GIVEN ARE FOR GUIDANCE ONLY.

SITE PREPARATION

ROAD WORKS

1. SP1. REMOVE TOP SOIL, ROOT AFFECTED SOIL, FILL AND OTHER DELETERIOUS MATERIAL TO EXPOSE NATURAL SUBGRADE.
2. SP2. THE EXPOSED SUBGRADE SHOULD THEN BE PROOF ROLLED WITH AT LEAST EIGHT (8) PASSES OF A 10 TONNE MIN. DEAD WEIGHT ROLLER. ANY SOFT OR HEAVING AREAS SHOULD BE REMOVED TO A MAXIMUM DEPTH OF 300mm AND REPLACED WITH CLEAN WELL GRADED MATERIAL SUCH AS RIPPED OR CRUSHED SANDSTONE COMPACTED TO AT LEAST 100% OF STANDARD MAXIMUM DRY DENSITY (SMDD) AT ±2% OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH AS1289.
3. SP3. COMPACTED FILL SHOULD BE PLACED IN LAYERS NOT EXCEEDING 150mm THICK AND COMPACTED TO AT LEAST 100% SMDD. FILL SHALL CONSIST OF CLEAN WELL GRADED MATERIAL SUCH AS RIPPED OR CRUSHED SANDSTONE WITH A MIN. CBR OF 15%.
4. SP4. DENSITY TESTING SHALL BE CARRIED OUT TO LEVEL 2 CERTIFICATION IN ACCORDANCE WITH AS3798.
5. SP5. SUB-BASE COURSE - TO BE DGS20 OR DGS40 OR RIPPED OR CRUSHED SANDSTONE WITH A CBR GREATER THAN 40%, MAXIMUM PARTICLE SIZE OF 60mm, WELL GRADED WITH A PLASTIC INDEX LESS THAN 10. COMPACT TO AN AVERAGE OF NOT LESS THAN 100% SMDD WITH A MINIMUM VALUE OF 98% SMDD.
6. SP6. ALL KERBS TO BE FORMED BY KERB MACHINE AND NOT BY HAND.
7. EXTERNAL FOOTPATHS/PAVEMENTS
8. SP7. REMOVE TOP SOIL, ROOT AFFECTED SOIL, FILL AND OTHER DELETERIOUS MATERIAL TO EXPOSE NATURAL SUBGRADE.
9. SP8. THE EXPOSED SUBGRADE SHOULD BE PROOF ROLLED. ANY SOFT OR HEAVING AREAS SHOULD BE REPLACED WITH CLEAN WELL GRADED MATERIAL. FILL IF REQUIRED, SHOULD BE CLEAN AND WELL GRADED. COMPACT TO 100% SMDD.

STORMWATER DRAINAGE NOTES

1. STORMWATER DRAINAGE SHALL BE GENERALLY IN ACCORDANCE WITH AS3500.3-2018.
2. PIPES Ø675mm AND LARGER SHALL BE CLASS 3 APPROVED SPIGOT AND SOCKET REINFORCED CONCRETE PIPES WITH RUBBER RING JOINTS U.N.O. IN ACCORDANCE WITH AS/NZS3725-2007.
3. PIPES Ø375mm TO Ø600mm SHALL BE CLASS 2 APPROVED SPIGOT AND SOCKET REINFORCED CONCRETE PIPES WITH RUBBER RING JOINTS U.N.O. IN ACCORDANCE WITH AS/NZS3725-2007.
4. PIPES UP TO AND INCLUDING Ø300mm SHALL BE uPVC DWV (GRADE CLASS SN8) U.N.O. IN ACCORDANCE WITH AS/NZS1260-2017. ENLARGERS, CONNECTIONS, TAPERS, JUNCTIONS ETC TO BE PREFABRICATED PURPOSE MADE FITTINGS WITH SOLVENT WELDED JOINTS.
5. SUBSOIL PIPES AND FITTINGS TO BE PERFORATED PLASTIC IN ACCORDANCE WITH AS2439.1-2007. LAY PIPES ON FLOOR OF TRENCH WITH MINIMUM 1% GRADE AND OVERLAY WITH FILTER MATERIAL EXTENDING TO WITHIN 200mm OF SURFACE. PROVIDE FILTER FABRIC OF PERMEABLE POLYPROPYLENE BETWEEN FILTER MATERIAL AND TOPSOIL.
6. HEAVY DUTY uPVC PIPES TO BE IN ACCORDANCE WITH AS/NZS1254-2010 MAY BE USED WITHIN ALLOTMENTS.
7. EQUIVALENT STRENGTH FIBROUS REINFORCED CONCRETE (F.R.C.) AND/OR HIGH DENSITY POLYETHYLENE (H.D.P.E.) MAY BE USED SUBJECT TO APPROVAL BY THE SUPERINTENDENT.
8. CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
9. ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH WITH NO PROTRUSIONS.
10. BEDDING MATERIAL SHALL BE TYPE H2 U.N.O. FOR PIPES NOT UNDER PAVEMENTS, AND TYPE HS2 FOR PIPES UNDER PAVEMENTS IN ACCORDANCE WITH AS/NZS3725-2007.
11. ALL PIPES ARE TO BE UNIFORMLY SUPPORTED ALONG THE LENGTH OF THE BARREL BY SUITABLE FILL MATERIAL. PIPES WITH SOCKETS SHALL BE LAID WITH RECESSES IN BEDDING MATERIAL TO ENSURE PIPES DO NOT BEAR ON THEIR SOCKETS.
12. MINIMUM GRADE TO STORMWATER LINES TO BE 1% U.N.O.
13. ANY PIPES OVER 16% GRADE SHALL HAVE CONCRETE BULKHEADS AT ALL JOINTS.
14. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
15. PROVIDE 3m LENGTH OF Ø100mm SUBSOIL DRAINAGE LINE OR 200mm 'NYLEX' STRIP DRAIN SURROUNDED WITH 150mm OF 20mm BLUE METAL OR GRAVEL, AND WRAPPED IN 'BIDUM' A24 GEOTEXTILE FILTER FABRIC OR APPROVED EQUIVALENT, AT INVERT OF EACH INCOMING UPSTREAM PIPE TRENCH ON EACH PIT.
16. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
17. WHERE SUBSOIL DRAINAGE LINES PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC DWV (GRADE CLASS SN8) PIPE SHALL BE USED.
18. UNLESS NOTED OTHERWISE ON THE PLANS, PROVIDE THE FOLLOWING MINIMUM COVER TO ALL STORMWATER PIPES:
    UNDER LANDSCAPE & PAVEMENT - 300mm
    UNDER ROAD (TRAFFIC) - 600mm
19. REFER TO AS/NZS3725-2007 TABLE B1 FOR REQUIRED FILL DEPTHS ABOVE PIPE BARREL PRIOR TO USE OF COMPACTION MACHINERY OR TRAVERSING OF PIPES BY GENERAL SITE EQUIPMENT. THE CONTRACTOR IS TO ENSURE COMPACTION EQUIPMENT IS APPROPRIATE FOR THE PIPE CLASS USED. WHERE WORKING METHODS REQUIRE HIGHER CLASS PIPE, THE CONTRACTOR SHALL REFER TO AS3725-2007 TO DETERMINE THE APPROPRIATE PIPE CLASS. PROPOSED CHANGES TO PIPE CLASS SHALL BE REVIEWED BY CARDNO PRIOR TO INSTALLATION.
18. BACKFILL PIPE TRENCHES WITH SANDY LOAM OR APPROVED GRANULAR BACKFILL TO MINIMUM COVER ABOVE THE PIPE. WHERE THE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO PAVEMENT SUBGRADE WITH SAND OR APPROVED GRAVEL SUB-BASE COMPACTED IN 150mm LAYERS TO 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75).
19. FOR ALL IN-SITU CONCRETE ELEMENTS REFER TO CIVIL CONCRETE NOTES FOR CONCRETE STRENGTH AND COVER.
20. PRECAST CONCRETE PITS MAY BE INSTALLED IN LIEU OF CAST IN-SITU PITS, WHEN PIPE JUNCTIONS ARE ACCOMMODATED WITHIN THE OVERALL DIMENSIONS OF THE PIT, AND APPROVED BY CARDNO.
21. PITS DEEPER THAN 1200mm, MEASURED FROM TOP OF GRATE TO INVERT OF PIT, SHALL HAVE STEP IRONS INSTALLED IN ACCORDANCE WITH THE LOCAL OR STATUTORY AUTHORITY REQUIREMENTS.
22. ACCESS COVERS AND GRATES TO BE INSTALLED IN ACCORDANCE WITH AS3996-2019.
23. ALL GRATES IN PAVEMENTS TO BE CYCLE SAFE AND WHERE IN ROADWAYS TRAFFICABLE HEAVY DUTY.
24. ALL BOX CULVERTS SHALL BE STRUCTURALLY DESIGNED BY THE MANUFACTURER AND DELIVERED TO SITE AS FIT FOR PURPOSE.
25. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
26. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

EROSION AND SEDIMENT CONTROL NOTES

1. ALL WORKS SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH:
   a. LOCAL AUTHORITY REQUIREMENTS
   b. EPA REQUIREMENTS
   c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004 (THE BLUE BOOK).
2. EROSION AND SEDIMENT CONTROL DRAWINGS AND NOTES ARE PROVIDED FOR THE WHOLE OF THE WORKS. SHOULD THE CONTRACTOR STAGE THESE WORKS THEN THE DESIGN MAY REQUIRE TO BE MODIFIED. VARIATIONS TO THESE DETAILS MAY REQUIRE TO BE APPROVED BY THE RELEVANT AUTHORITIES. THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE IMPLEMENTED AND ADOPTED TO MEET THE VARYING SITUATIONS AS WORK ON SITE PROGRESSES.
3. MINIMISE THE AREA OF SITE BEING DISTURBED AT ANY ONE TIME.
4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONTROL OF EROSION AND SEDIMENTATION AND THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED OR AS OTHERWISE DIRECTED BY THE SUPERINTENDENT.
5. ALL SOIL AND WATER CONTROL MEASURES ARE TO BE PUT BACK IN PLACE AT THE END OF EACH WORKING DAY AND MODIFIED TO BEST SUIT SITE CONDITIONS.
6. PREVENT SITE RUNOFF ENTERING NEWLY CONSTRUCTED STORMWATER PITS UNLESS SEDIMENT FENCES ARE ERECTED AROUND THEM.
7. MAINTAIN ALL STORMWATER PIPES AND PITS CLEAR OF DEBRIS AND SEDIMENT. INSPECT STORMWATER SYSTEM AND CLEAN OUT AS REQUIRED PARTICULARLY FOLLOWING EACH STORM EVENTS.
8. MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES, ENSURING THEY ARE IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND/OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED PARTICULARLY FOLLOWING EACH STORM EVENTS.
9. WHERE PRACTICAL, THE SOIL EROSION HAZARDS ON THE SITE ARE TO BE KEPT AS LOW AS POSSIBLE AND WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE TO MINIMISE THE RISKS:
   a. INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
   b. CONSTRUCT STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA AT THE LOCATION SHOWN ON THE DRAWINGS OR AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
   c. INSTALL ANY SEDIMENT BASINS AND SEDIMENT TRAPS AS SHOWN ON DRAWINGS. REFER DETAIL.
   d. UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.
10. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
11. CONTROL WATER FROM UPSTREAM OF THE SITE SUCH THAT IT DOES NOT ENTER THE DISTURBED SITE.
12. ALL CONSTRUCTION VEHICLES SHALL ENTER THE SITE VIA THE TEMPORARY CONSTRUCTION ENTRY/EXIT.
13. ALL VEHICLES LEAVING THE SITE SHALL BE CLEANED AND INSPECTED BEFORE LEAVING.
14. STOCKPILES ARE NOT TO BE LOCATED IN ROADWAYS, WITHIN 2 METRES OF HAZARD AREAS OR DRAINAGE PITS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE SCOUR AND EROSION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
15. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
16. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE OR DEVICE.
17. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.
18. ACCEPTABLE RECEPTACLES WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHTWEIGHT WASTE MATERIALS AND LITTER.
19. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
   a. PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
   b. ENSURING THAT NOTHING IS NAILED TO THEM
   c. PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.
   d. ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER
   e. A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300mm DEPTH
   f. CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.
20. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.
21. ANY REVEGETATED AREAS WHICH FAIL TO ESTABLISH WITHIN THREE MONTHS MUST BE RE-SOWN.

CONCRETE NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600 AND AS1379 CURRENT EDITIONS WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
2. FOR CONCRETE MIX DESIGN & COVER SUMMARY REFER TO TABLE C1.1 BELOW. ALL CEMENT TO BE TYPE 'GP' GENERAL PURPOSE CEMENT IN ACCORDANCE WITH AS3972-2010, EXCEPT THAT THE MAXIMUM SHRINKAGE OF THE CEMENT IN THE MORTAR TEST SAMPLE IN ACCORDANCE WITH AS2350 SHALL BE LESS THAN 600 MICROSTRAIN.
3. PROJECT ASSESSMENT SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379-2007 CLAUSE B7:
   a) ALL CONCRETE IN SLABS AND BEAMS TO BE PROPORTIONED TO LIMIT DRYING SHRINKAGE TO 650 MICROSTRAIN AT 56 DAYS.
   b) DETAILS OF THE PROPOSED MIX TO BE SUBMITTED AND APPROVAL OBTAINED PRIOR TO POURING ANY CONCRETE.
4. NO ADMIXTURES OTHER THAN THOSE SPECIFIED IN THE CONCRETE QUALITY & COVER SUMMARY TABLE C1.1 (OR APPROVED EQUIVALENTS) SHALL BE USED IN CONCRETE UNLESS APPROVED BY THE ENGINEER, WITH THE ONLY EXCEPTION BEING LOW RANGE WATER REDUCING ADMIXTURE.
5. CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE IN ACCORDANCE WITH CONCRETE QUALITY & COVER TABLE C1.1.
6. CONSTRUCTION JOINTS, WHERE NOT SHOWN, SHALL BE LOCATED TO THE APPROVAL OF THE STRUCTURAL ENGINEER.
7. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED TO ACHIEVE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
8. CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF THREE (3) DAYS, AND THE PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF SEVEN (7) DAYS FOLLOWED BY A GRADUAL DRYING OUT. APPROVED SPRAY ON CURING COMPOUNDS THAT COMPLY WITH AS3799 MAY BE USED WHERE FLOOR FINISHES WILL NOT BE AFFECTED (REFER MANUFACTURERS SPECIFICATION). PVA BASED CURING COMPOUNDS ARE NOT ACCEPTABLE. POLYTHENE SHEETING OR WET HESSIAN MAY BE USED IF PROTECTED FROM WIND AND TRAFFIC.
9. REPAIRS TO CONCRETE SHALL NOT BE ATTEMPTED WITHOUT THE PERMISSION OF THE ENGINEER.
10. CAST-IN FIXINGS, BOLTS ETC. SHALL NOT BE ALTERED WITHOUT THE PERMISSION OF THE

CONCRETE MIX DESIGN & COVER - TABLE C1.1

MIN. CEMENT CONTENT = 300 kg/m³
MAX. PERMISSIBLE DRYING SHRINKAGE = 600 MICROSTRAIN AT 56 DAYS

STRUCTURAL ELEMENT	SLUMP (MAX)	MAX. AGG. SIZE	CEMENT TYPE	STRENGTH GRADE	ADMIXTURE	REBAR COVER	
						TOP	BTM
STORMWATER PITS	80	Ø20mm	GP	32MPa	-	40	40
KERBING	80	Ø20mm	GP	32MPa	-	40	40
SLABS ON GROUND	80	Ø20mm	GP	32MPa	-	40	40
BORED PIERS	80	Ø20mm	GP	32MPa	-	50	
STRIP FOOTINGS	80	Ø20mm	GP	32MPa	-	50	
BLOCK WALL CORE GROUT FILLING (UNO)	230	Ø10mm	GP	25MPa	-	65	

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Designed	K.P.	Date MAR'2022
Verified	C.F.	Date MAR'2022
Approved		

Client: LAHC & SAMCRAWFORD ARCHITECTS
Project: PROPOSED DEVELOPMENT AT 6-12 PETERS AVENUE WALLSEND 2287
Title: CIVIL CONSTRUCTION NOTES
Status: PRELIMINARY — NOT TO BE USED FOR CONSTRUCTION PURPOSES
Datum: AHD | Scale: N/A | Size: A1
Drawing Number: 80822045-CI-0002 | Revision: 5

DATE PLOTTED: 7 September 2023 2:31 PM BY : HOWITT, BEN

LEGEND

RWO	RWO - RAIN WATER OUTLET Ø 200 WITH Ø100 PIPE		STORMWATER PIT		STORMWATER PIPE
DP	DP - DOWN PIPE Ø100		SEALED ACCESS PIT		RWO CONNECTION PIPE
PBD	PBD - PLANTER BED DRAIN Ø100	DP	STORMWATER PIPE	GD	GRATED DRAIN
	OSD TANK		DRAINAGE EASEMENT		

NOTE:
- LEGEND NOT TO SCALE

XREF's: X-GROUND FLOOR; X-SURVEY
CAD File: C:\Users\bhowitt\Desktop\Peters Avenue Wallsend\Peter's Avenue Wallsend - Personal\Sheet Set\80822045-CI-1101.dwg

Rev.	Date	Description	Des.	Verif.	Appd.
8	07/09/2023	PRELIMINARY ISSUE	BCH	JMB	
7	09/05/2023	PRELIMINARY ISSUE	PDP	JMB	
6	10/02/2023	PRELIMINARY ISSUE	PDP	JMB	
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Approved		

Client: LAHC & SAMCRAWFORD ARCHITECTS

Project: PROPOSED DEVELOPMENT AT 6-12 PETERS AVENUE WALLSEND 2287

Title: STORMWATER DRAINAGE PLAN GROUND FLOOR

Status: PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION PURPOSES

Datum	Scale	Size
AHD	1:100	A1

Drawing Number	Revision
80822045-CI-1101	8

STORMWATER PIT SCHEDULE

SWP No.	PIT COVER LEVEL RL.	PIT INVERT LEVEL IL.	DEPTH (mm)	INTERNAL PIT SIZE	PIT TYPE	COVER TYPE	COVER CLASS	REMARKS
GF-1	10.664	9.69	974	900 x 900	SIP	GRATE	B	
GF-2	10.595	9.16	1435	900 x 900	SIP	GRATE	B	
GF-3	10.430	9.04	1390	900 x 900	SIP	GRATE	B	
GF-4	10.430	8.96	1470	900 x 900	SIP	GRATE	B	
GF-5	10.975	8.90	2.075	900 x 900	SIP	GRATE	B	
GF-6	10.975	8.85	2.125	900 x 900	SIP	GRATE	B	
GF-7	10.975	8.81	2.165	900 x 900	SIP	GRATE	B	
GF-8	11.18	10.58	600	600X600	SIP	GRATE	B	
GF-9	10.213	9.76	453	450 x 450	SIP	GRATE	B	
GF-10	10.275	9.825	450	450 x 450	SIP	GRATE	B	
GF-11	10.595	9.23	1365	900 x 900	SIP	GRATE	C	
GF-12	10.34	9.29	1050	900 x 900	SIP	GRATE	C	
GF-13	10.21	9.35	860	900 x 900	SIP	GRATE	B	
GF-14	10.15	9.44	710	600X600	SIP	GRATE	B	
GF-15	10.10	9.5	600	600X600	SIP	GRATE	C	
GF-16	9.253	8.80	450	450 x 450	SIP	GRATE	B	
GF-17	9.253	8.72	533	450 x 450	SIP	GRATE	B	
GF-18	9.10	8.53	460	450 x 450	SIP	GRATE	B	
GF-19	11.18	8.76	2420	900 x 900	SIP	GRATE	B	
GF-20	10.835	8.65	2185	900 x 900	SIP	GRATE	B	
GF-21	11.18	10.73	450	450 x 450	SIP	GRATE	B	
GF-22	10.10	9.65	450	450 x 450	SIP	GRATE	B	
GF-23	10.835	9.50	1335	900 x 900	SIP	GRATE	B	
GF-24	10.835	8.34	2495	900 x 900	SIP	GRATE	B	
GF-25	9.535	8.13	1295	900 x 900	SIP	GRATE	B	
GF-26	9.15	8.04	1000	900 x 900	SIP	GRATE	B	

Rev.	Date	Description	Des.	Verif.	Appd.
6	07/09/2023	PRELIMINARY ISSUE	B.C.H	J.M.B	
5	10/02/2023	PRELIMINARY ISSUE	P.D.P	J.M.B	
4	26/07/2022	PRELIMINARY ISSUE	K.P.	C.F.	
3	08.06.2022	PRELIMINARY ISSUE	K.P.	C.F.	
2	01.06.2022	PRELIMINARY ISSUE	K.P.	C.F.	
1	28.03.2022	PRELIMINARY ISSUE	K.P.	C.F.	

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Drawn	K.P.	Date MAR'2022
Checked	K.P.	Date MAR'2022
Designed	K.P.	Date MAR'2022
Verified	C.F.	Date MAR'2022
Approved		

Client: LAHC & SAMCRAWFORD ARCHITECTS

Project: PROPOSED DEVELOPMENT AT 6-12 PETERS AVENUE WALLSEND 2287

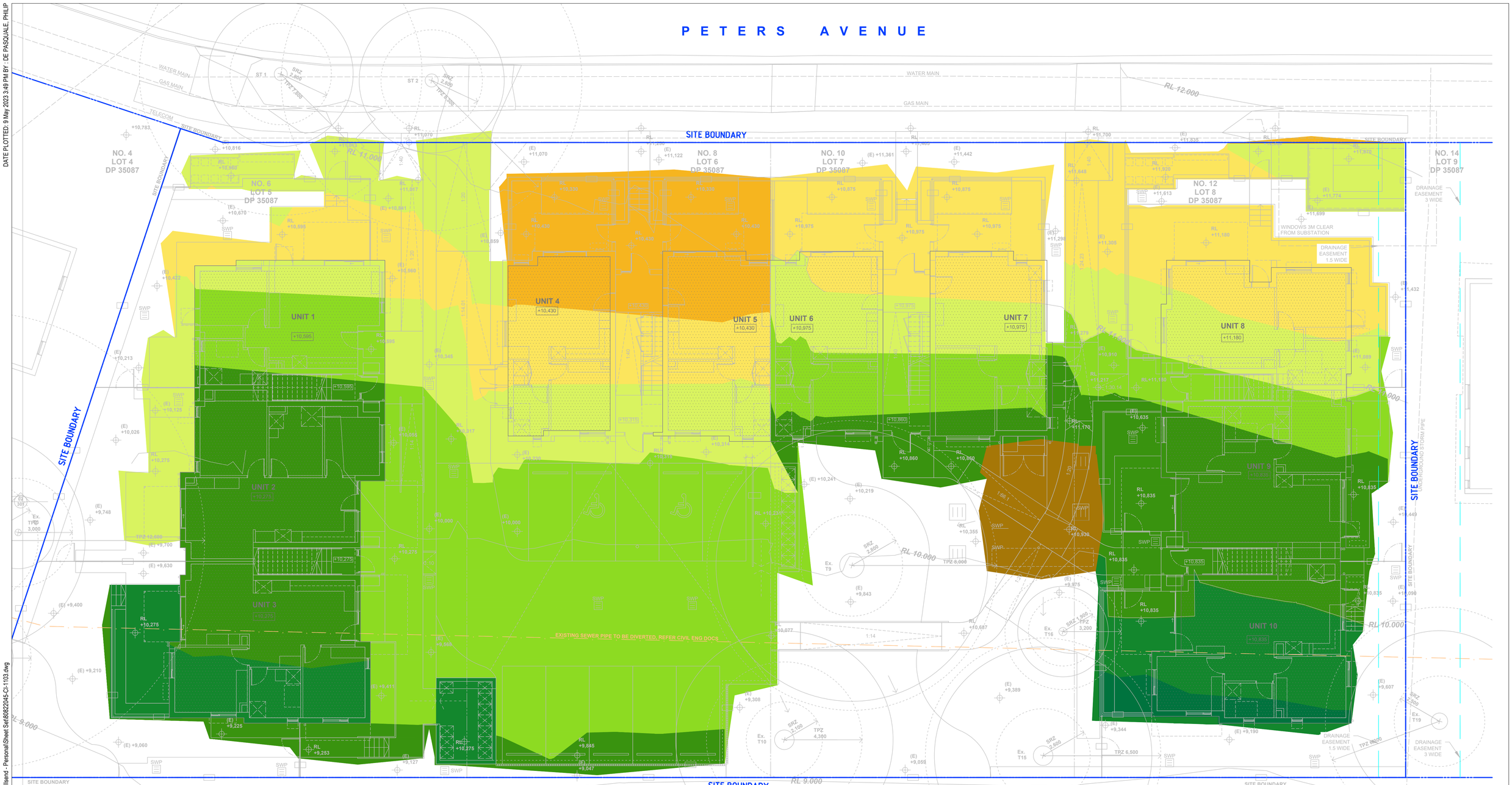
Title: PIT SCHEDULE

Status: PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION PURPOSES

Datum		Scale	Size
AHD		1:100	A1

Drawing Number: 80822045-CI-1102

Revision: 6



LEGEND

- CUT BETWEEN 1.5m AND 2.0m
- CUT BETWEEN 1.0m AND 1.5m
- CUT BETWEEN 0.5m AND 1.0m
- CUT BETWEEN 0.25m AND 0.5m
- CUT LESS THAN 0.25m
- FILL LESS THAN 0.25m
- FILL BETWEEN 0.25m AND 0.5m
- FILL BETWEEN 0.5m AND 1.0m
- FILL BETWEEN 1.0m AND 1.5m

CUT VOLUME = -309.25m³
FILL VOLUME = 239.76m³
BALANCE = -69.5m³

Rev.	Date	Description	Des.	Verif.	Appd.
6	09/05/2023	PRELIMINARY ISSUE	PDP	JMB	
5	10/02/2023	PRELIMINARY ISSUE	PDP	JMB	
4	26/07/2022	PRELIMINARY ISSUE	K.P.	C.F.	
3	08.06.2022	PRELIMINARY ISSUE	K.P.	C.F.	
2	01.06.2022	PRELIMINARY ISSUE	K.P.	C.F.	
1	30.03.2022	PRELIMINARY ISSUE	K.P.	C.F.	

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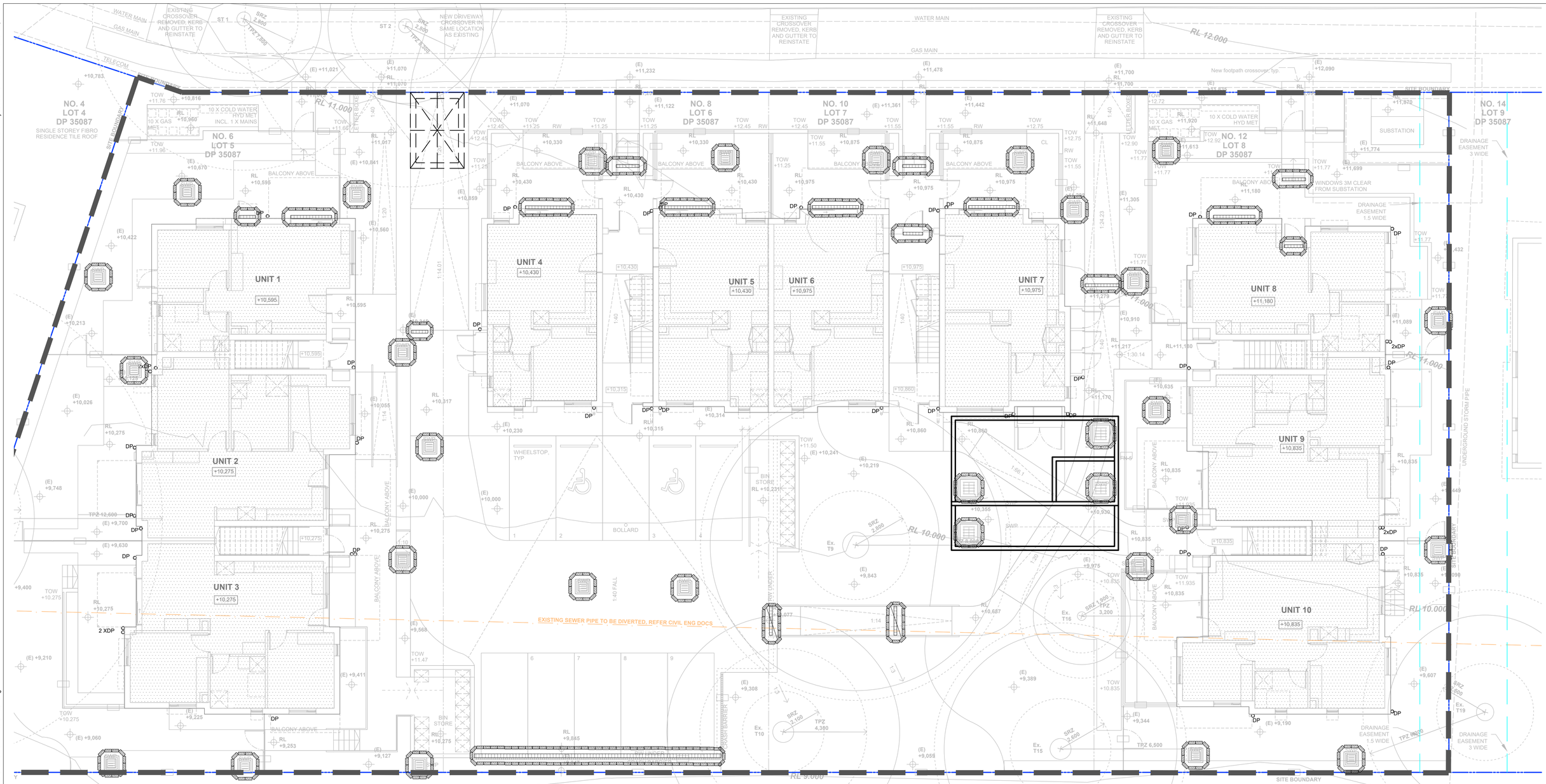
Designed	K.P.	Date MAR'2022
Verified	C.F.	Date MAR'2022
Approved		

Client: LAHC & SAMCRAWFORD ARCHITECTS
Project: PROPOSED DEVELOPMENT AT 6-12 PETERS AVENUE WALLSEND 2287
Title: CUT AND FILL PLAN

Status: PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION PURPOSES

Datum	Scale	Size
AHD	1:100	A1

Drawing Number: 80822045-CI-1103
Revision: 6



LEGEND

- SITE FENCE
- SILT FENCE
- STORMWATER PIT
- SEALED ACCESS PIT
- SILT TRAP/SAND BAGS
- TEMPORARY SURFACE INLET SEDIMENT TRAP OR GROSS POLLUTANT TRAP
- TEMPORARY CONSTRUCTION VEHICLE ENTRY/EXIT

SITE ACCESS AND STOCKPILE LOCATION MAY CHANGE DEPENDING ON CONSTRUCTION PREFERENCE

THIS LAYOUT PRESENTS ONE OF A NUMBER OF POSSIBLE SOLUTIONS FOR THE EROSION AND SEDIMENTATION CONTROL ON THE SITE DURING THE CONSTRUCTION PERIOD. FINAL LAYOUT MAY BE ALTERED BY THE CONTRACTOR TO SUIT THEIR SITE LAYOUT, OPERATIONS SEQUENCE, STAGING ETC. ANY SUCH CHANGES MUST BE IN ACCORDANCE WITH THE GUIDELINES OF LANDCOM MANAGING URBAN STORMWATER MANUAL. 2004 (" BLUE BOOK")
SHOULD THE STRIPPED AREA AT ANY STAGE EXCEED 2500 m², SEDIMENTATION POND INCL. ASSOCIATED BERMS, CUT OFF TRENCHES ETC. IS TO BE PROVIDED IN ACCORDANCE WITH THE GUIDELINES OF LANDCOM MANAGING URBAN STORMWATER MANUAL.

FOR SEDIMENTATION AND EROSION CONTROL DETAILS REFER TO DRAWING 80822045-CI-2201.

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6	09/05/2023	PRELIMINARY ISSUE	PDP	JMB	
5	10/02/2023	PRELIMINARY ISSUE	PDP	JMB	
4	22/07/2022	PRELIMINARY ISSUE	K.P.	C.F.	
3	08.06.2022	PRELIMINARY ISSUE	K.P.	C.F.	
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Verified	C.F.	Date MAR'2022
Approved		

Client: LAHC & SAMCRAWFORD ARCHITECTS

Project: PROPOSED DEVELOPMENT AT 6-12 PETERS AVENUE WALLSEND 2287

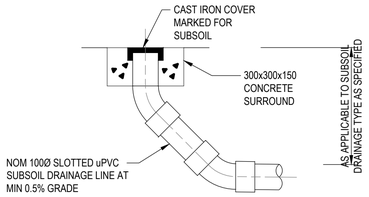
Title: SEDIMENTATION AND EROSION CONTROL PLAN

Status: PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION PURPOSES

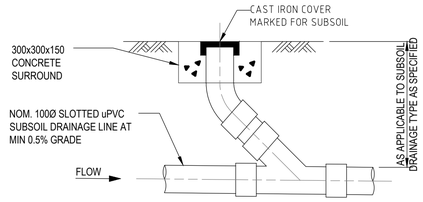
Datum	Scale	Size
AHD	1:100	A1

Drawing Number: 80822045-CI-1201

Revision: 6

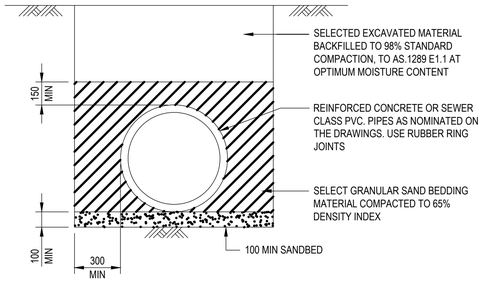


HIGH END RISER
N.T.S.



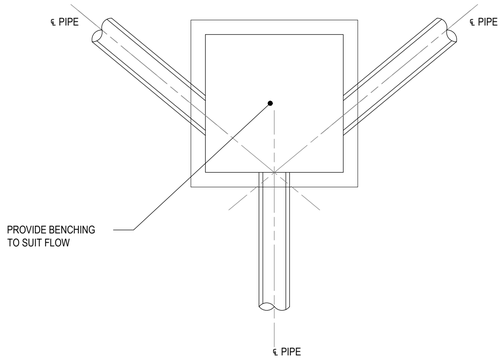
INTERMEDIATE RISER
N.T.S.

(TYPICAL AT 25m. INTERVALS UNLESS OTHERWISE NOTED ON PLAN)

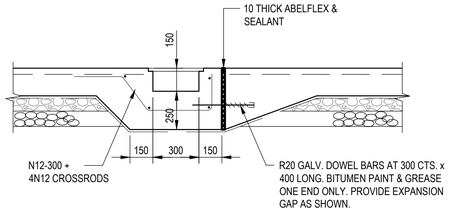


TYPICAL PIPE LAYING DETAIL U.N.O.

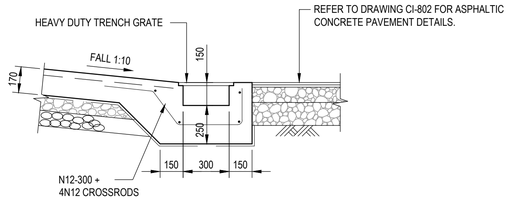
NOTE:
ALLOW TO BUILD 100Ø AG. DRAIN IN THE LAST 3.0m OF DRAINAGE PIPE, UPSTREAM OF ALL DRAINAGE PITS.



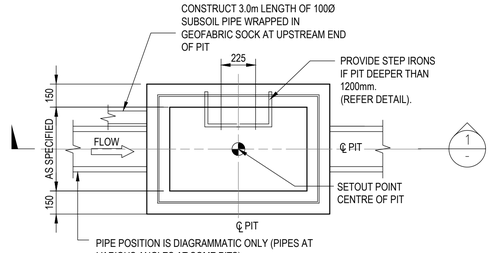
JUNCTION PIT SET OUT DETAILS
N.T.S



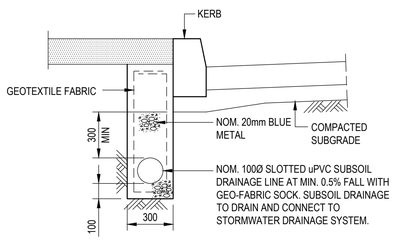
GRATED DRAIN DETAIL
SCALE 1:20



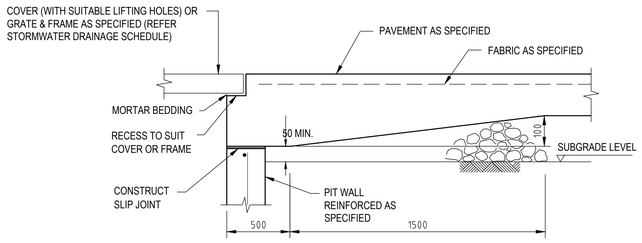
GRATED DRAIN DETAIL AT ENTRY ROAD
SCALE 1:20



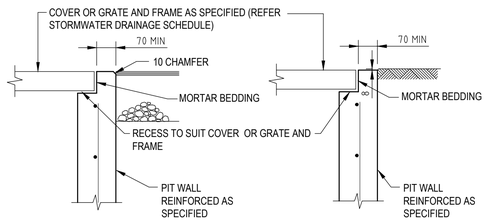
PLAN
NTS



SUBSOIL DRAINAGE LINE IN LANDSCAPED AREAS ADJACENT TO ROADS



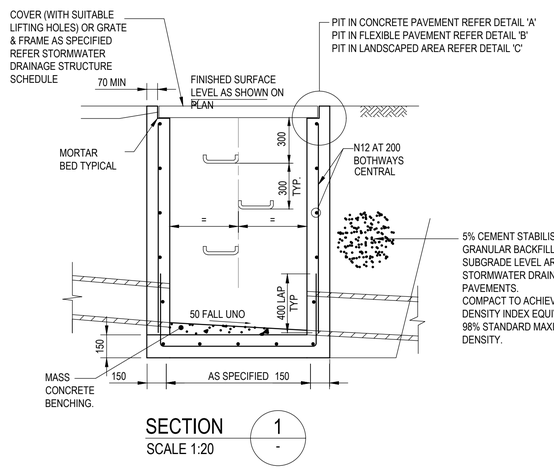
DETAIL "A"
N.T.S



DETAIL "B"
SCALE 1:10

DETAIL "C"
SCALE 1:10

PIT EDGE TREATMENT FOR STORMWATER DRAINAGE AND OTHER SERVICES PITS IN ROAD PAVEMENTS AND LANDSCAPED AREAS



SECTION 1
SCALE 1:20

SURFACE INLET/JUNCTION PIT (SIP/JP)

Rev.	Date	Description	Des.	Verif.	Appd.
5	10/02/2023	PRELIMINARY ISSUE	PDP	JMB	
4	26/07/2022	PRELIMINARY ISSUE	K.P.	C.F.	
3	08.06.2022	PRELIMINARY ISSUE	K.P.	C.F.	
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1	28.03.2022	PRELIMINARY ISSUE	K.P.	C.F.	

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Approved		

Client: LAHC & SAMCRAWFORD ARCHITECTS

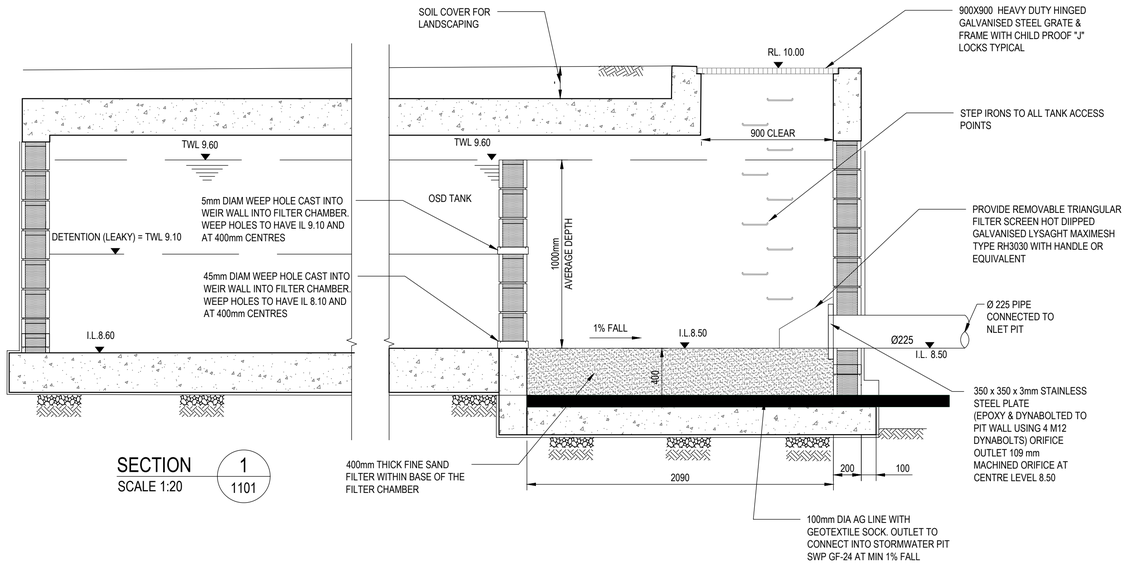
Project: PROPOSED DEVELOPMENT AT
6-12 PETERS AVENUE
WALLSEND 2287

Title: STORMWATER DETAILS
SHEET 1

Status: PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION PURPOSES

Datum		Scale	Size
AHD		AS SHOWN	A1

Drawing Number: 80822045-CI-2101
Revision: 5



SECTION 1 / SCALE 1:20 / 1101

OSD SYSTEM DESIGN PARAMETER

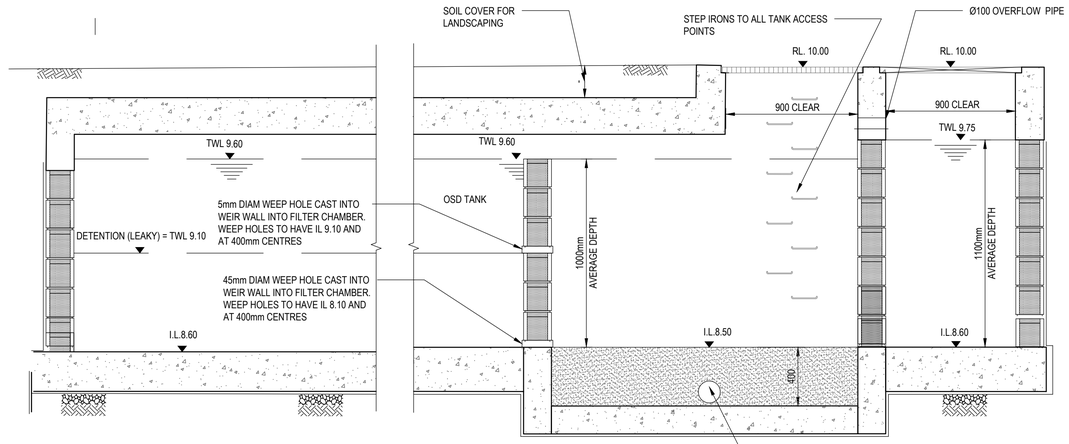
AS PER THE NEWCASTLE CITY COUNCIL SECTION 7.06 STORMWATER GUIDELINES, MINIMUM STORAGE REQUIRED FOR,

SITE AREA = 2574.1 Sq m.
IMPERVIOUS AREA = 1600.14m2 = 62.16 % IMPERVIOUS,

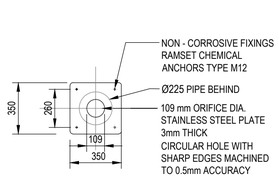
OSD STORAGE REQUIRED FOR SITE = 27.9 m3
PSD 5 MIN 5YEAR ARI =25 L/S

OSD STORAGE PROVIDED = 64.3m3

OSD TANK DETAIL
TOP WATER LEVEL = 9.60
DEPTH OF WATER = 1.0m
TANK AREA = 34.4 m2 INCLUDING 6.2m2 OF FILTER CHAMBER
ORIFICE DIAMETER = 109mm



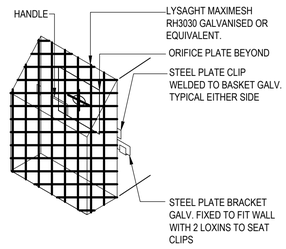
SECTION 3 / SCALE 1:20 / 1101



ORIFICE DIAMETER TO BE ENGRAVED ON THE PLATE SURFACE. ORIFICE TO BE EPOXY SEALED AROUND OUTER EDGES.

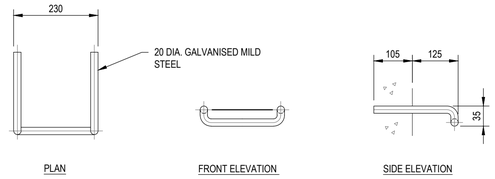
ORIFICE PLATE DETAIL -OSD

N.T.S.



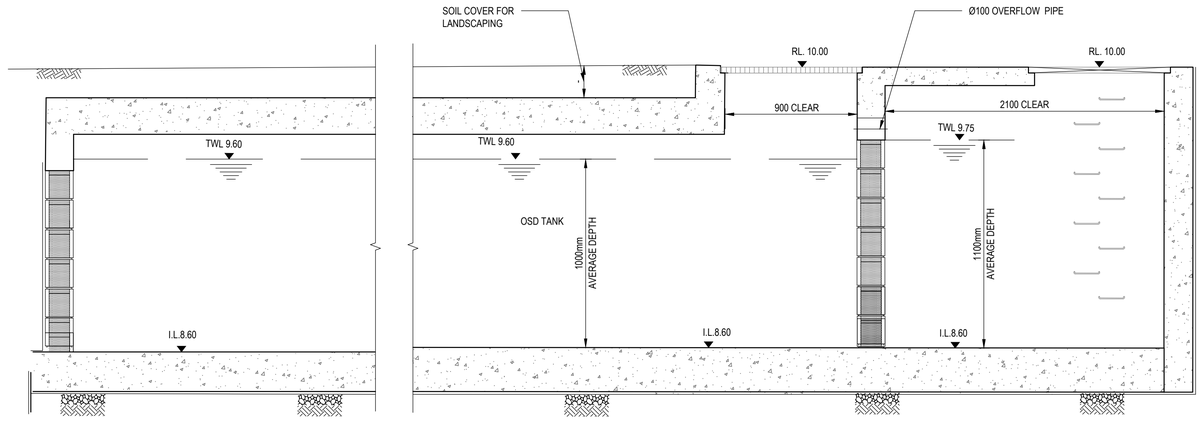
TRASH SCREEN DETAIL

N.T.S.



STEP IRON DETAIL

N.T.S.



SECTION 2 / SCALE 1:20 / 1101

Rev.	Date	Description	Des.	Verif.	Appd.
5	10/02/2023	PRELIMINARY ISSUE	PDP	JMB	
4	26/07/2022	PRELIMINARY ISSUE	K.P.	C.F.	
3	08.06.2022	PRELIMINARY ISSUE	K.P.	C.F.	
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Approved		

Client: LAHC & SAMCRAWFORD ARCHITECTS

Project: PROPOSED DEVELOPMENT AT 6-12 PETERS AVENUE WALLSEND 2287

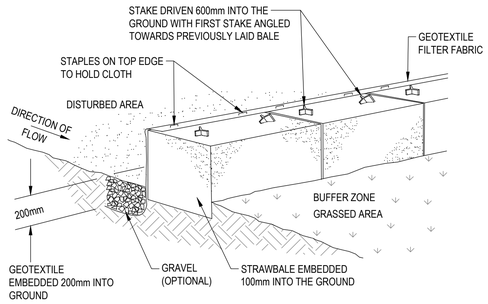
Title: STORMWATER DETAILS SHEET 2 OSD RAINWATER TANK DETAILS

Status: PRELIMINARY — NOT TO BE USED FOR CONSTRUCTION PURPOSES

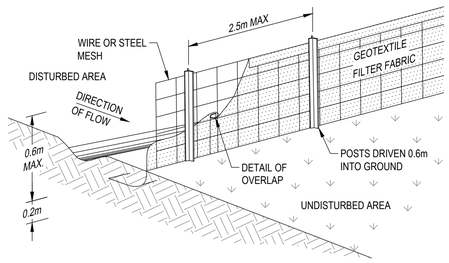
Datum	Scale	Size
AHD	AS SHOWN	A1

Drawing Number: 80822045-CI-2103

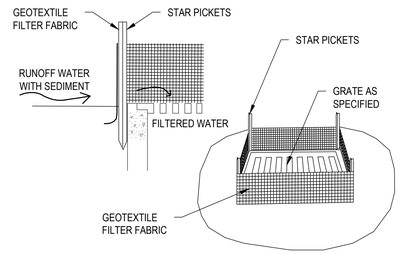
Revision: 5



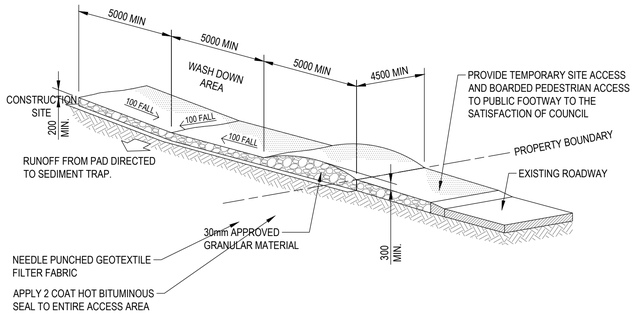
STRAWBALE AND GEOTEXTILE SEDIMENT FILTER
NTS



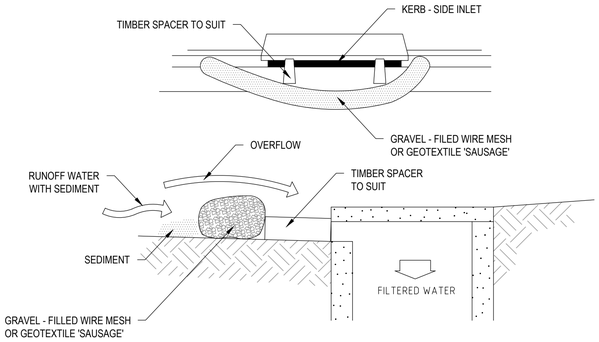
SEDIMENT FENCE
NTS



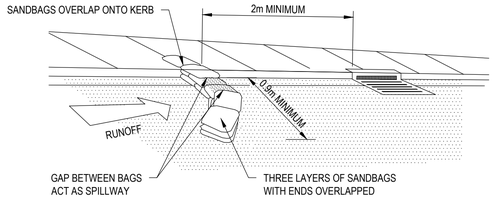
GEOTEXTILE FILTER PIT SURROUND
NTS



STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA
NTS



MESH AND GRAVEL INLET FILTER
NTS



SANDBAG SEDIMENT TRAP FOR KERB INLET ON GRADE
NTS

Rev.	Date	Description	Des.	Verif.	Appd.
5	10/02/2023	PRELIMINARY ISSUE	PDP	JMB	
4	26/07/2022	PRELIMINARY ISSUE	K.P.	C.F.	
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Drawn K.P.	Date MAR'2022	Client	LAHC & SAMCRAWFORD ARCHITECTS
Checked K.P.	Date MAR'2022	Project	PROPOSED DEVELOPMENT AT 6-12 PETERS AVENUE WALLSEND 2287
Designed K.P.	Date MAR'2022	Title	SEDIMENTATION AND EROSION CONTROL DETAILS
Verified C.F.	Date MAR'2022	Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES
Approved		Datum AHD / Scale AS SHOWN / Size A1	
		Drawing Number	80822045-CI-2201
		Revision	5