Contraction Cardno

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# LAHC & SAMCRAWFORD ARCHITECTS

# PROPOSED DEVELOPMENT AT 47-49 CURRY STREET WALLSEND 2287 COVER SHEET, LOCALITY PLAN AND SCHEDULE OF DRAWINGS

	SCHEDULE OF DRA
DRAWING No.	DESCI
DISCIPLINE	
80822047-CI-0001	COVER SHEET, LOCALITY PLAN AND SC
80822047-CI-0002	CIVIL CONSTRUCTION NOTES
80822047-CI-1101	STORMWATER DRAINAGE PLAN GROUN
80822047-CI-1102	CUT AND FILL PLAN
80822047-CI-1103	BULK EARTHWORK LEVEL
80822047-CI-1201	SEDIMENTATION AND EROSION CONTR
80822047-CI-2101	STORMWATER DETAILS SHEET 1
80822047-CI-2102	STORMWATER DETAILS SHEET 2
80822047-CI-2103	STORMWATER DETAILS SHEET 3 OSD F
80822047-CI-2201	SEDIMENTATION AND EROSION CONTR

28/11/2022	REVISED ISSUE FOR DA APPROVAL	A.L	P.L	M.R
1/06/2022	REVISED ISSUE	K.P.	C.F.	
4/04/2022	REVISED ISSUE FOR DA APPROVAL	K.P.	C.F.	
7/03/2022	ISSUE FOR DA APPROVAL	K.P.	C.F.	
10/02/2021	PRELIMINARY ISSUE	G.M.	K.P.	C.F.
Date	Description	Des.	Verif.	Appd.

AWINGS
RIPTION
CHEDULE OF DRAWINGS
ND FLOOR
OL
RAINWATER TANK DETAILS
OL DETAILS



LOCALITY PLAN N.T.S

**samcrawford**architects

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INDICATIVE SITE COMPOUND



	Drawn G.M.	Date FEB' 2022	Status				
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	Designed G.M.	Date FEB' 2022					
	Verified C.F.	Date FEB' 2022	Datum AHD		Scale NTS	Size	A1
reliance by third party on the content of this document.	Approved		Drawing Number				Revision
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#### GENERAL CIVIL NOTES

- 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 ONI Y
- 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.
- 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 AUTHORIT
- 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. REMOVE TOP SOIL, ROOT AFFECTED SOIL, FILL AND OTHER DELETERIOUS MATERIAL TO EXPOSE NATURAL SUBGRADE.
- 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.
- 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. DENSITY TESTING SHALL BE CARRIED OUT TO LEVEL 2 CERTIFICATION IN ACCORDANCE WITH AS3798.
- 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. ALL KERBS TO BE FORMED BY KERB MACHINE AND NOT BY HAND.
- EXTERNAL FOOTPATHS/PAVEMENTS 7.
- REMOVE TOP SOIL, ROOT AFFECTED SOIL, FILL AND OTHER DELETERIOUS MATERIAL TO EXPOSE NATURAL SUBGRADE.
- 9. 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 INSTALLED 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.
- 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.

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5 4	28/11/2022 1/06/2022	REVISED ISSUE FOR DA APPROVAL REVISED ISSUE	A.L K.P.	P.L C.F.	M.R	Level 2, 17 Federation Rd, Newtown, Australia <b>TELEPHONE</b> +612
3	4/04/2022 7/03/2022	REVISED ISSUE FOR DA APPROVAL ISSUE FOR DA APPROVAL	K.P. K.P.	C.F. C.F.		EMAIL studio@samcrawfordarchitects.com.au WEB samcrawfordarchite
1	10/02/2021	PRELIMINARY ISSUE	K.P.	K.P.	C.F.	ACN 165 409 567 Nominated Architect Sam Cra
Rev.	Date	Description	Des.	Verif.	Appd.	

#### 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).
- 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.
- 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
- 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. 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
- CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND
- 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 DOCUMENTS.
- AS2350 SHALL BE LESS THAN 600 MICROSTRAIN.
- 3. PROJECT ASSESSMENT SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379-2007 CLAUSE B7: 650 MICROSTRAIN AT 56 DAYS.
- POURING ANY CONCRETE.
- 5. CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE IN ACCORDANCE WITH CONCRETE QUALITY & COVER TABLE C1.1.
- STRUCTURAL ENGINEER.
- BE COMPACTED WITH MECHANICAL VIBRATORS.
- AND TRAFFIC
- ENGINEER.
- 10. CAST-IN FIXINGS, BOLTS ETC. SHALL NOT BE ALTERED WITHOUT THE PERMISSION OF THE

MIN. CEMENT CONTENT = 300 kg/m <sup>3</sup> MAX. PERMISSIBLE DRYING SHRINKAGE = 600 MICROSTRAIN AT 56 DAYS								
STRUCTURAL ELEMENT	<u>SLUMP</u> (MAX)	MAX. AGG. <u>SIZE</u>	CEMENT TYPE	STRENGTH GRADE	ADMIXTURE	REE COV TOP	BAR VER 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	-	5	0	
STRIP FOOTINGS	80	Ø20mm	GP	32MPa	-	5	0	
BLOCK WALL CORE GROUT FILLING (UNO)	230	Ø10mm	GP	25MPa	-	6	5	

MAX. PERMISSIBLE DRYING SHRINKAGE = 600 MICROSTRAIN AT 56 DAYS									
STRUCTURAL ELEMENT	SLUMP (MAX)	MAX. AGG. CEMENT STRENGTH ADMIXTURE		CEMENT TYPE GRADE		AGG.   CEMENT   STRENGTH   ADMIXTURE			BAR /ER
		SIZE		GRADE		TOP	<u>BTM</u>		
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	-	5	0		
STRIP FOOTINGS	80	Ø20mm	GP	32MPa	-	5	0		
BLOCK WALL CORE GROUT FILLING (UNO)	230	Ø10mm	GP	25MPa	-	6	5		

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Drawn K.P.	FEB' 2022	<sup>Client</sup> LAHC & SAM
Checked K.P.	Date FEB' 2022	Project PROPOSED DEVE
Designed K.P.	Date FEB' 2022	47-49 CURRY STR
Verified C.F.	Date FEB' 2022	WALLSEND 2287
Approved		CIVIL CONSTRUC

CURRENT EDITIONS WITH AMENDMENTS. EXCEPT WHERE VARIED BY THE CONTRACT

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

a) ALL CONCRETE IN SLABS AND BEAMS TO BE PROPORTIONED TO LIMIT DRYING SHRINKAGE TO

b) DETAILS OF THE PROPOSED MIX TO BE SUBMITTED AND APPROVAL OBTAINED PRIOR TO

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.

6. CONSTRUCTION JOINTS, WHERE NOT SHOWN, SHALL BE LOCATED TO THE APPROVAL OF THE

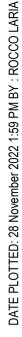
ALL CONCRETE SHALL BE MECHANICALLY VIBRATED TO ACHIEVE A DENSE HOMOGENEOUS MASS COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL

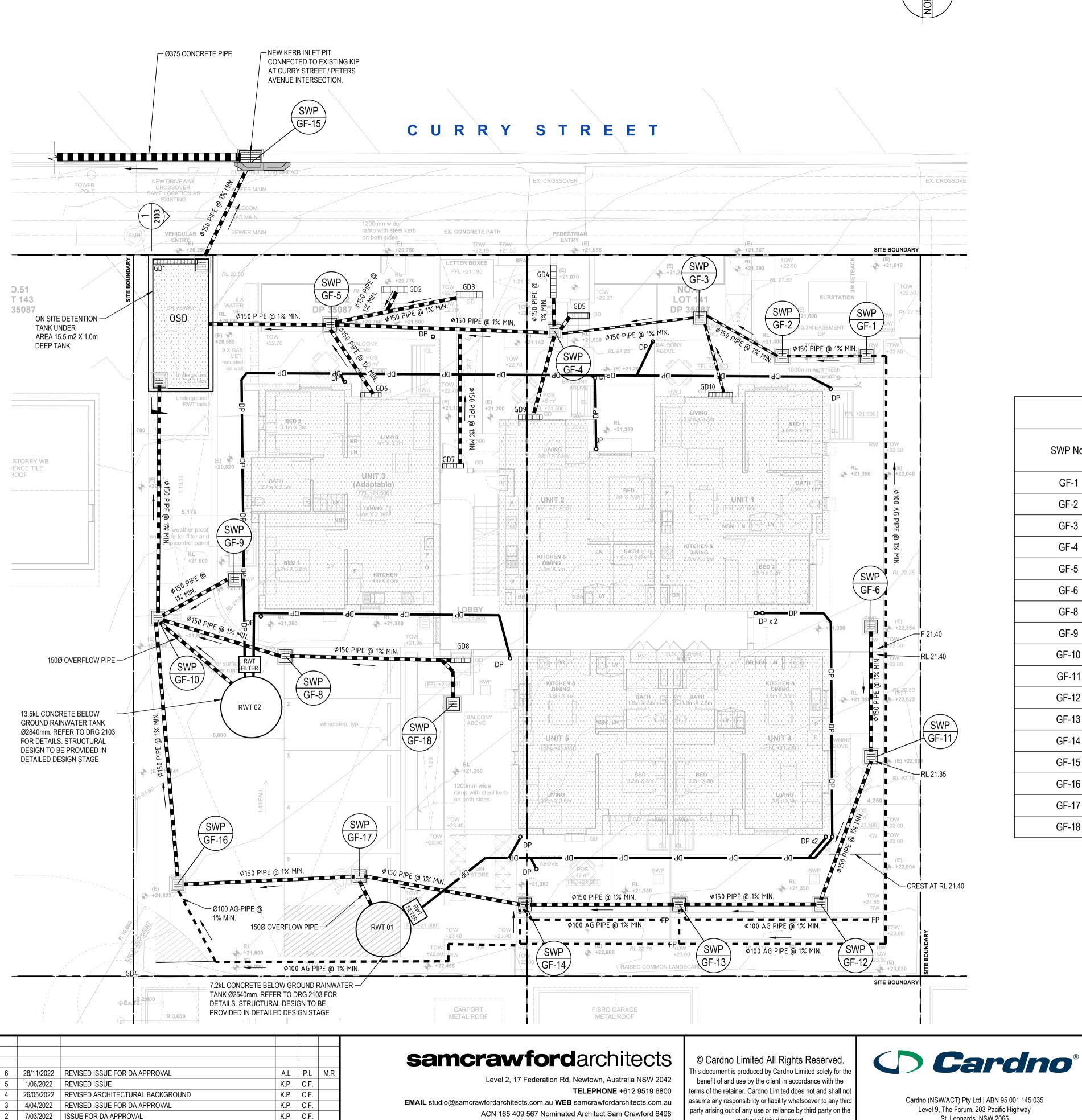
8. CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF THREE (3) DAYS, AND THE PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF SEVEN (7) DAYS FOLLOWED BY A GRADUAL DRYING OUT. APPROVED SPRAY ON CURING COMPOUNDS THAT COMPLY WITH AS3799 MAY BE USED WHERE FLOOR FINISHES 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

9. REPAIRS TO CONCRETE SHALL NOT BE ATTEMPTED WITHOUT THE PERMISSION OF THE

CONCRETE MIX DESIGN & COVER - TABLE C1.1

ICRAWFORD ARCHITECTS					
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Date

PRELIMINARY ISSUE

Description

K.P. K.P. C.F

Des. Verif. Appd.

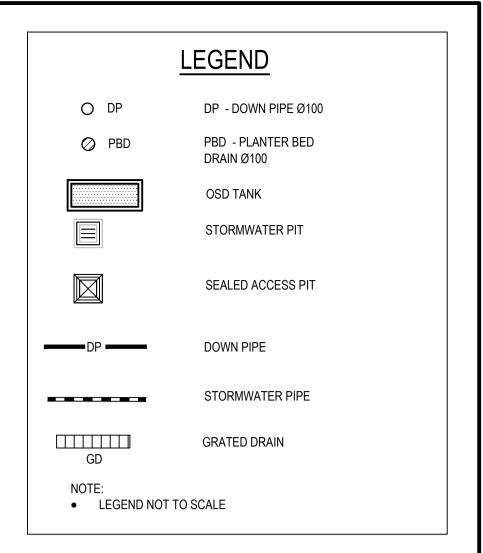
STORMWATER PIT SCHEDULE									
SWP No.	PIT COVER LEVEL RL.	PIT INVERT LEVEL IL.	DEPTH (mm)	INTERNAL PIT SIZE	PIT TYPE	COVER TYPE	COVER CLASS	REMARKS	
GF-1	21.6	21.15	450	450X450	SIP	GRATE	В		
GF-2	21.55	21.10	450	450 x 450	SIP	GRATE	В		
GF-3	21.4	20.95	450	450X450	SIP	GRATE	В		
GF-4	21.4	20.88	520	450 x 450	SIP	GRATE	В		
GF-5	21.4	20.78	620	600 x 600	SIP	GRATE	В		
GF-6	21.93	21.48	450	450 x 450	SIP	GRATE	В		
GF-8	21.5	20.94	560	450 x 450	SIP	GRATE	В		
GF-9	21.4	20.82	580	600X600	SIP	GRATE	В		
GF-10	21.5	20.49	1010	900 x 900	SIP	GRATE	С		
GF-11	21.30	20.90	450	450X450	SIP	GRATE	В		
GF-12	21.30	20.65	650	600X600	SIP	GRATE	В		
GF-13	21.30	20.74	560	450X450	SIP	GRATE	В		
GF-14	21.8	20.61	1191	900X900	SIP	GRATE	С		
GF-15	19.85	18.80	1050	900X450	KIP	GRATE	D		
GF-16	21.30	20.74	560	450X450	SIP	GRATE	В		
GF-17	21.85	20.57	1280	900X900	SIP	GRATE	В		
GF-18	21.30	20.90	400	450X450	SIP	GRATE	В		

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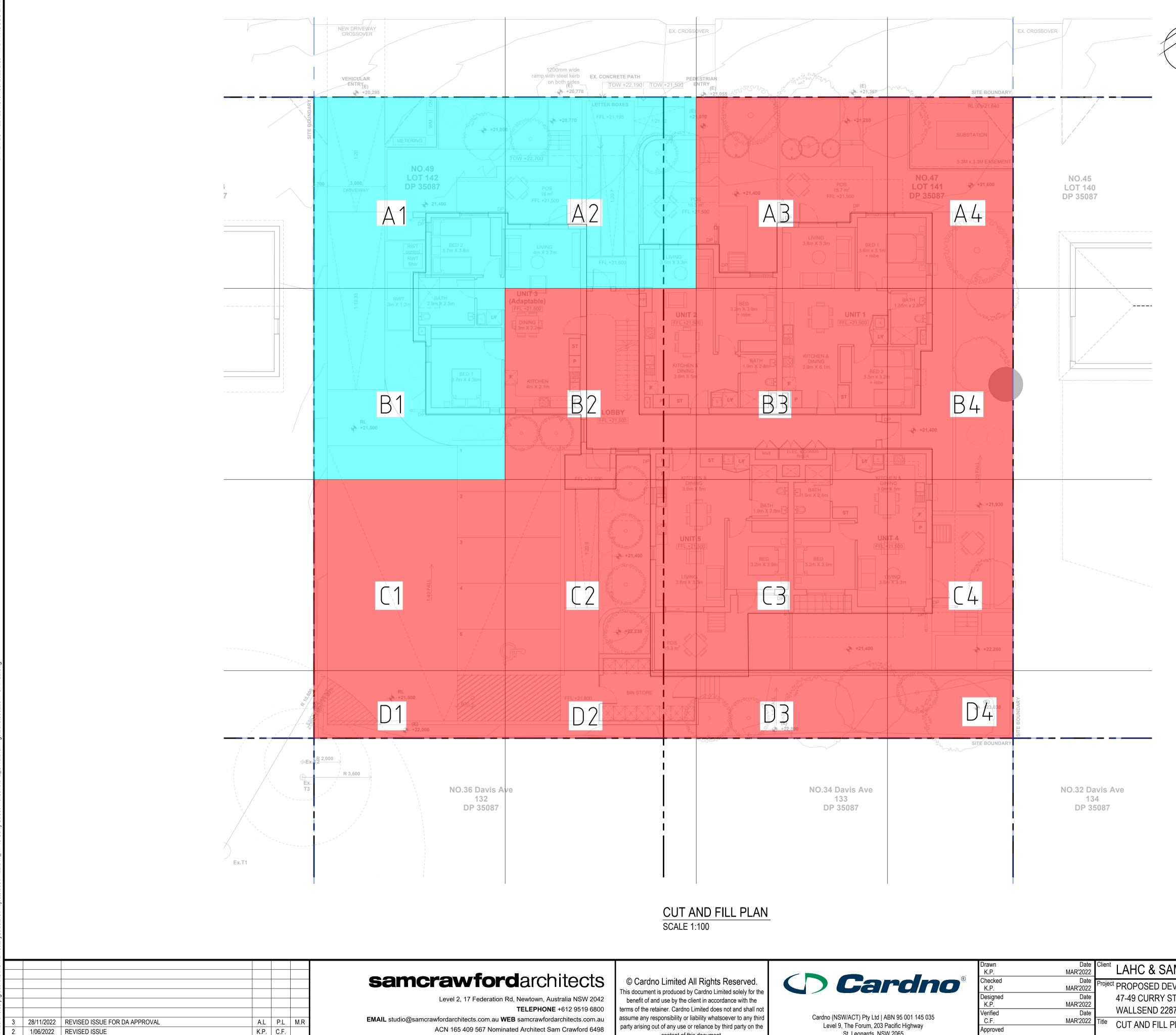
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St. Leonards, NSW 2065 Tel: 02 9496 7700 Fax: 02 9439 5170 Web: www.cardno.com.au

Drawn	Date	Client I ALLO 9 OANA
K.P.	FEB' 2022	LAHC & SAM
Checked	Date	
K.P.	FEB' 2022	Project PROPOSED DEVE
Designed	Date	47-49 CURRY STR
K.P.	FEB' 2022	
Verified	Date	WALLSEND 2287
C.F.	FEB' 2022	Title STORMWATER DF
Approved		
		GROUND FLOOR



0	1	2	4 6	8	10m			
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ICRAWFORD ARCHITECTS								
ELOPMENT AT REET	Sta	N PURPOSES						
RAINAGE PLAN	Dat	AHD		Scale 1:100	Size A1			
	Dra	awing Number 800	822047-C	I-1101	Revision 6			



LOOR\_ CUT AND FILL AIN N FLOOR; Q

21/03/2022 PRELIMINARY ISSUE

Description

Date

K.P. K.P. C.F. Des. Verif. Appd.

Project PROPOSED DEV MAR'2022 Date MAR'2022 Date MAR'2022 Title CUT AND FILL PL ^ ` Level 9, The Forum, 203 Pacific Highway party arising out of any use or reliance by third party on the Approved St. Leonards, NSW 2065 content of this document. Tel: 02 9496 7700 Fax: 02 9439 5170 Web: www.cardno.com.au



LEGEND	
	FILL AREA
	CUT AREA

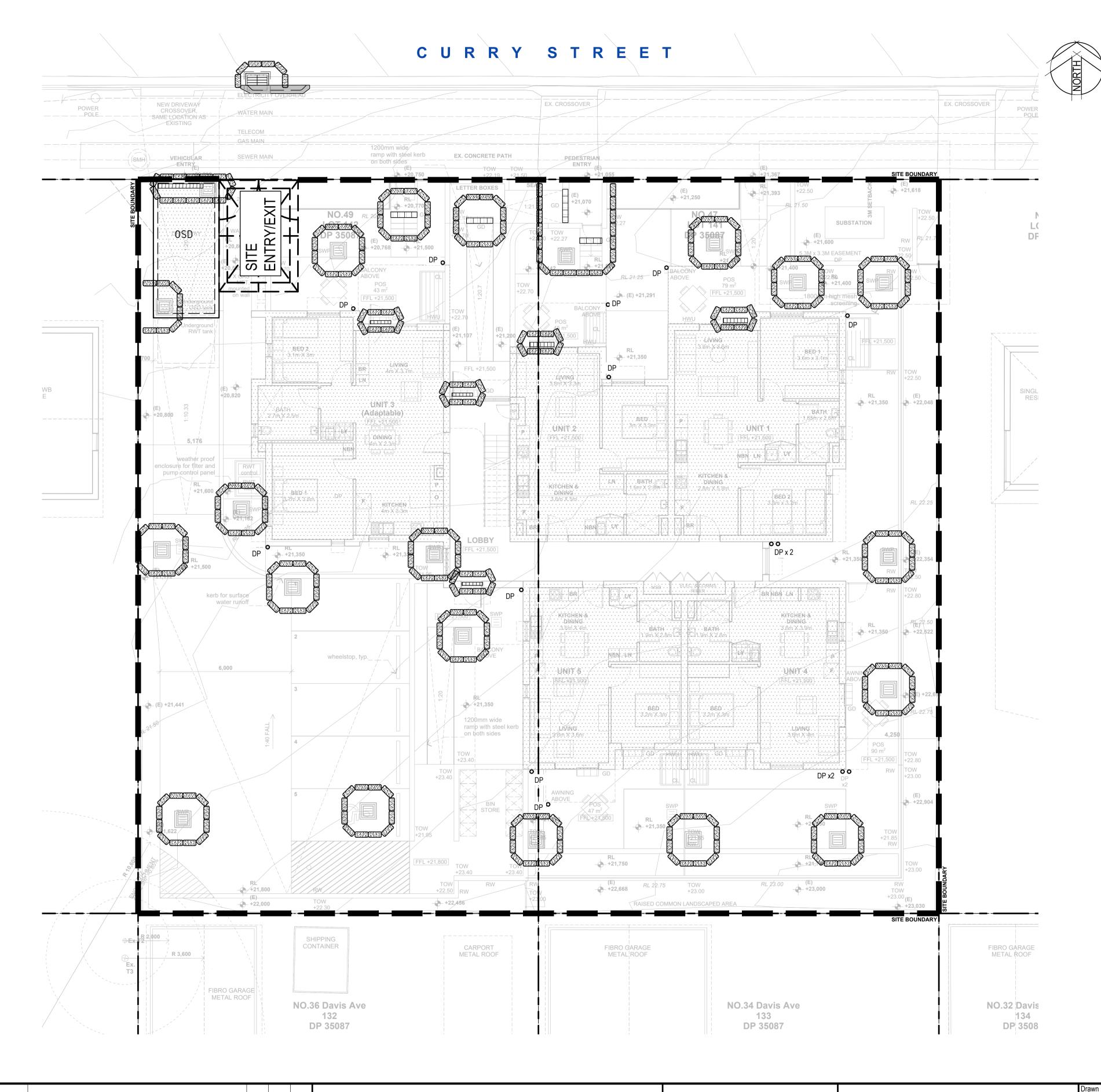
0	1	2	4	6	8	10m
S	CALE 1:	100				@A1
MCRAWFORD ARCHITECTS						
EVELOPMENT AT		Status NOT TO B	FOR E USED FOR	APPR( R CONST		I PURPOSE
37 PLAN	[	Datum AHD		Scale 1	:100	Size A1
	I	Drawing Numbe	<sup>∍r</sup> 30822047	-CI-11	02	Revision 3

	EX RL = 20.30 PR RL = 18.75		EX RL =20.70 PR RL = 21.00	EX RL = 21.07 PR RL = 20.97	EX RL = PR RL =	= 21.42 = 21.40 EX RL = 21.64 PR RL = 21.64	AND ARY	mmPR-EXA120.687522.792.1025A221.067521.14250.075A321.472521.2425-0.23A421.76521.597-0.168B121.1523.512.36B221.57521.3-0.275B321.987521.3-0.6875	CELL AREA       CELLL VOLUME         m2       m3         100       210.25         100       210.25         100       7.5         100       7.5         100       -23         100       -23         100       236         100       -27.5         100       -27.5         100       -68.75         100       -68.75
	EX RL = 20.75 PR RL = 30.11	A 1	EX RL = 21.00 PR RL = 21.30	A 2 EX RL = 21.50 PR RL = 21.30				B422.212521.7505-0.462C121.627521.425-0.2025C222.11521.3625-0.7525C322.512521.325-1.1875C422.687521.9895-0.698D121.93521.8175-0.1175D222.442521.9255-0.517D322.79522.088-0.707D423.00522.5835-0.4215	65.76-30.38112FILL100-20.25CUT100-75.25CUT100-118.75CUT65.76-45.90048CUT35.28-4.1454CUT35.28-18.095CUT35.28-24.94296CUT23.2-9.7788CUT
	EX RL = 21.25 PR RL = 21.33	B1	EX RL = 21.60 PR RL = 21.30	B2 EX RL = 22.20 PR RL = 21.30	B3 EX RL = PR RL =			CUT VOLUME = -477.791 m3 FILL VOLUME = 453.75 m3 BAL = -24.0414 m3 CUT REC	QUIRED
SITE BOUNDAR	EX RL = 21.60 PR RL = 21.52 EX RL = 21.63 PR RL = 22.00	C1 D1	EX RL = 22.06 PR RL = 21.55 EX RL = 22.45 PR RL = 22.20	C 2 EX RL = 22.60 PR RL = 21.30 D 2 EX RL = 22.66 PR RL = 22.652		= 21.40 $= 21.40$ $= 22.904$ $= 23.02$ $= 23.02$ $= 23.02$ $= 23.02$	SITE		
28/11/2022         REVISED ISSUE FOR           1/06/2022         REVISED ISSUE           21/03/2022         PRELIMINARY ISSUE           Date		Image:	SCALE SAMCTA Le EMAIL studio@samcrawfor	KEARTHWORK LEVEL         T100         T100         Evel 2, 17 Federation Rd, Newtown, Australia NSW 2042         VELEPHONE +612 9519 6800         rdarchitects.com.au WEB samcrawfordarchitects.com.au         Charter 100 567 Nominated Architect Sam Crawford 6498	© Cardno Limited All Rights Reserved. This document is produced by Cardno Limited solely for the benefit of and use by the client in accordance with the terms of the retainer. Cardno Limited does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.	Cardno (NSW/ACT) Pty Ltd   ABN 95 001 145 035 Level 9, The Forum, 203 Pacific Highway St. Leonards, NSW 2065 Tel: 02 9496 7700 Fax: 02 9439 5170 Web: www.cardno.com.au	Designed K.P.	Date MAR2022       Client       LAHC & SAMCRAWFORD ARCHITECTS         Date MAR2022       Project       PROPOSED DEVELOPMENT AT         Date MAR2022       47-49 CURRY STREET         WAR2022       WALLSEND 2287         Date MAR2022       Title         BULK EARTHWORK LEVEL	0       1       2       4       6       8       10m         SCALE 1:100       @A1         SCALE 1:100       @A1         Status       FOR APPROVAL         NOT TO BE USED FOR CONSTRUCTION PURPOSES         Datum       Scale       Size         AHD       1:100       A1         Drawing Number       Revision         80822047-CI-1103       3

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Rev. Date

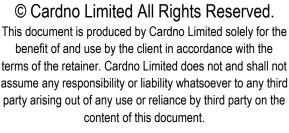
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6	28/11/2022	REVISED ISSUE FOR DA APPROVAL	A.L	P.L	M.R	
5	1/06/2022	REVISED ISSUE	K.P.	C.F.		Level 2, 17 Federation Rd, Newtown, Aus
4	26/05/2022	REVISED ARCHITECTURAL BACKGROUND	K.P.	C.F.		TELEPHONE
3	4/04/2022	REVISED ISSUE FOR DA APPROVAL	K.P.	C.F.		EMAIL studio@samcrawfordarchitects.com.au WEB samcrawforda
2	7/03/2022	ISSUE FOR DA APPROVAL	K.P.	C.F.		ACN 165 409 567 Nominated Architect Sa
1	10/02/2021	PRELIMINARY ISSUE	G.M.	K.P.	C.F.	
Rev.	Date	Description	Des.	Verif.	Appd.	

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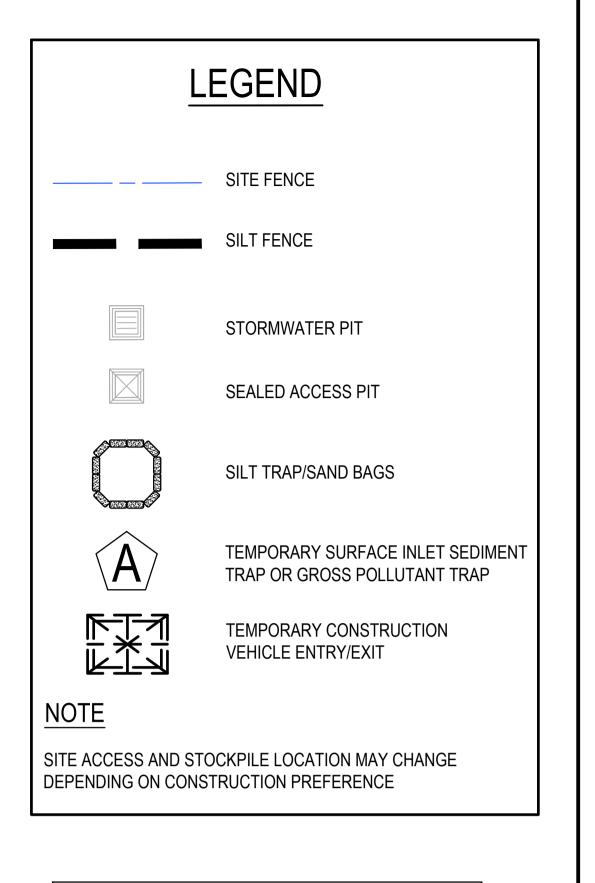
Australia NSW 2042 **NE** +612 9519 6800 brdarchitects.com.au Sam Crawford 6498





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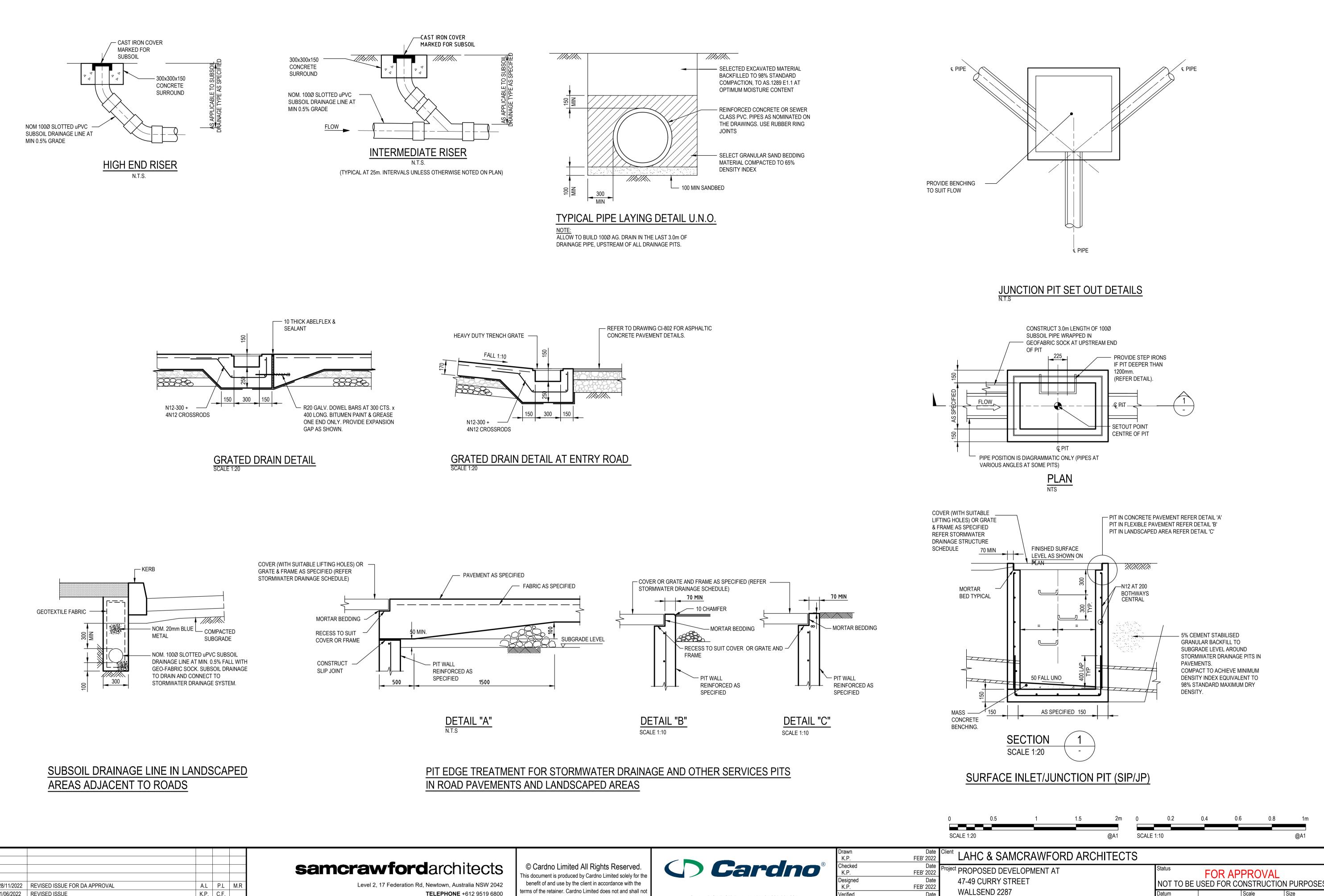


FOR SEDIMENTATION AND EROSION CONTROL DETAILS REFER TO DRAWING 80822047-CI-2201.

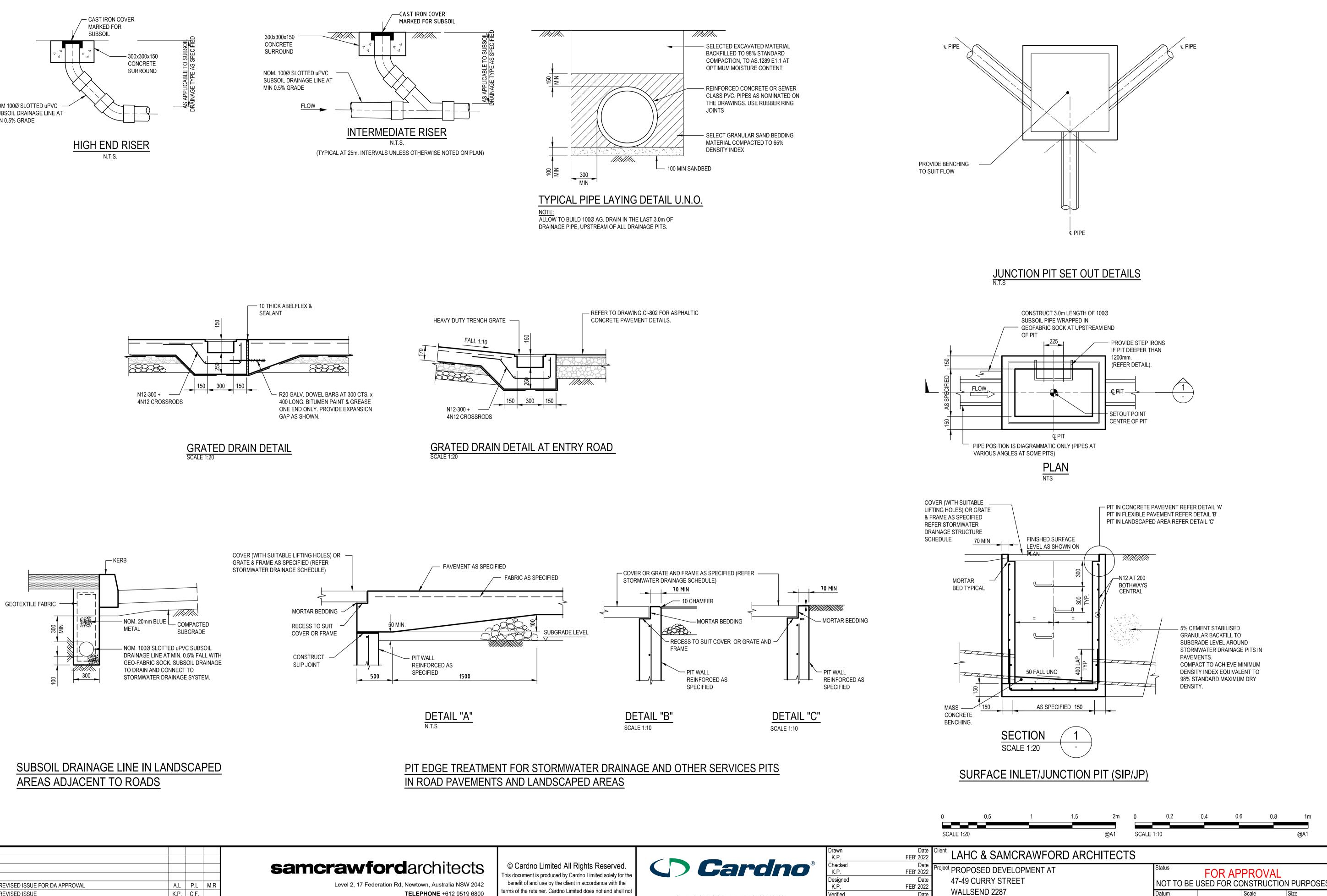
THIS LAYOUT PRESENTS ONE OF A NUMBER OF POSSIBLE SOLUTIONS FOR THE EROSION AND SEDIMENTATION CONTROL ON THE SITE DURING THE CONSTRUCTION PERIOD. FINAL LAYOUT MAY BE ALTERED BY THE CONTRACTOR TO SUIT THEIR SITE LAYOUT, OPERATIONS SEQUENCE, STAGING ETC. ANY SUCH CHANGES MUST BE IN ACCORDANCE WITH THE GUIDELINES OF LANDCOM MANAGING URBAN STORMWATER MANUAL. 2004 (" BLUE BOOK") SHOULD THE STRIPPED AREA AT ANY STAGE EXCEED 2500 m<sup>2</sup>, SEDIMENTATION POND INCL. ASSOCIATED BERMS, CUT OFF TRENCHES ETC. IS TO BE PROVIDED IN ACCORDANCE WITH THE GUIDELINES OF LANDCOM MANAGING URBAN STORMWATER MANUAL.

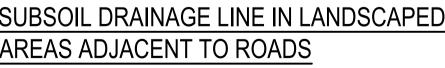
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AND EROSION CONTROL	Datum AHD		Scale 1:100	Size	A1
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IN ROAD PAY

## EMAIL studio@samcrawfordarchitects.com.au WEB samcrawfordarchitects. ACN 165 409 567 Nominated Architect Sam Crawfor Appd.

5	28/11/2022	REVISED ISSUE FOR DA APPROVAL	A.L	P.L
4	1/06/2022	REVISED ISSUE	K.P.	C.F.
3	4/04/2022	REVISED ISSUE FOR DA APPROVAL	K.P.	C.F.
2	7/03/2022	ISSUE FOR DA APPROVAL	K.P.	C.F.
1	10/02/2021	PRELIMINARY ISSUE	K.P.	K.P.
Rev.	Date	Description	Des.	Verif.

					SCALE 1:20
- 1 -			Drawn K.P.	FEB' 2022	Client LAHC & SAMCRAW
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519 6800	terms of the retainer. Cardno Limited does not and shall not assume any responsibility or liability whatsoever to any third	Cardno (NSW/ACT) Pty Ltd   ABN 95 001 145 035	K.P. Verified C.F.	FEB' 2022 Date FEB' 2022	WALLSEND 2287
ts.com.au ford 6498	party arising out of any use or reliance by third party on the content of this document.	Level 9, The Forum, 203 Pacific Highway St. Leonards, NSW 2065 Tel: 02 9496 7700  Fax: 02 9439 5170	Approved	1 LD 2022	STORMWATER DETAILS

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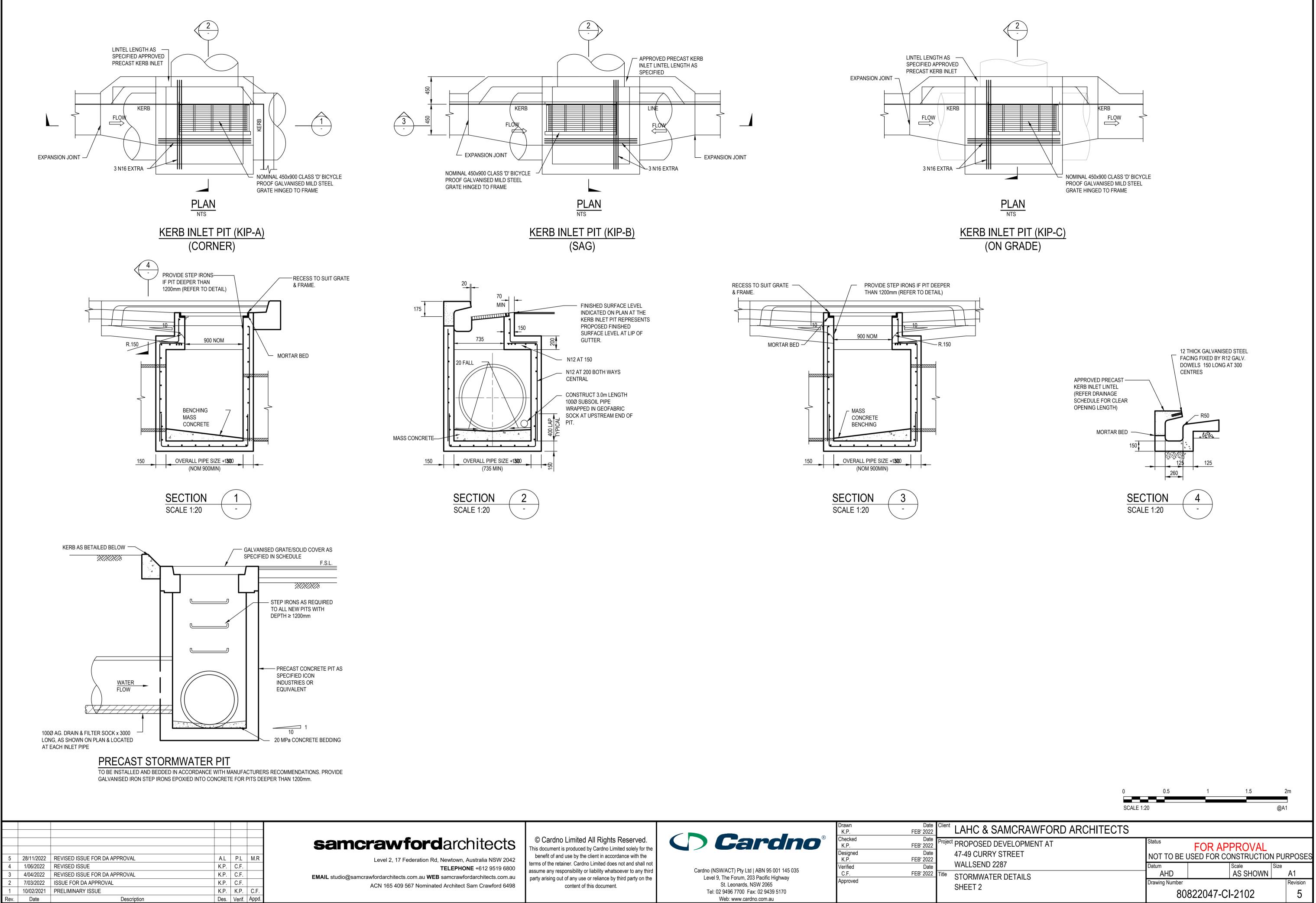
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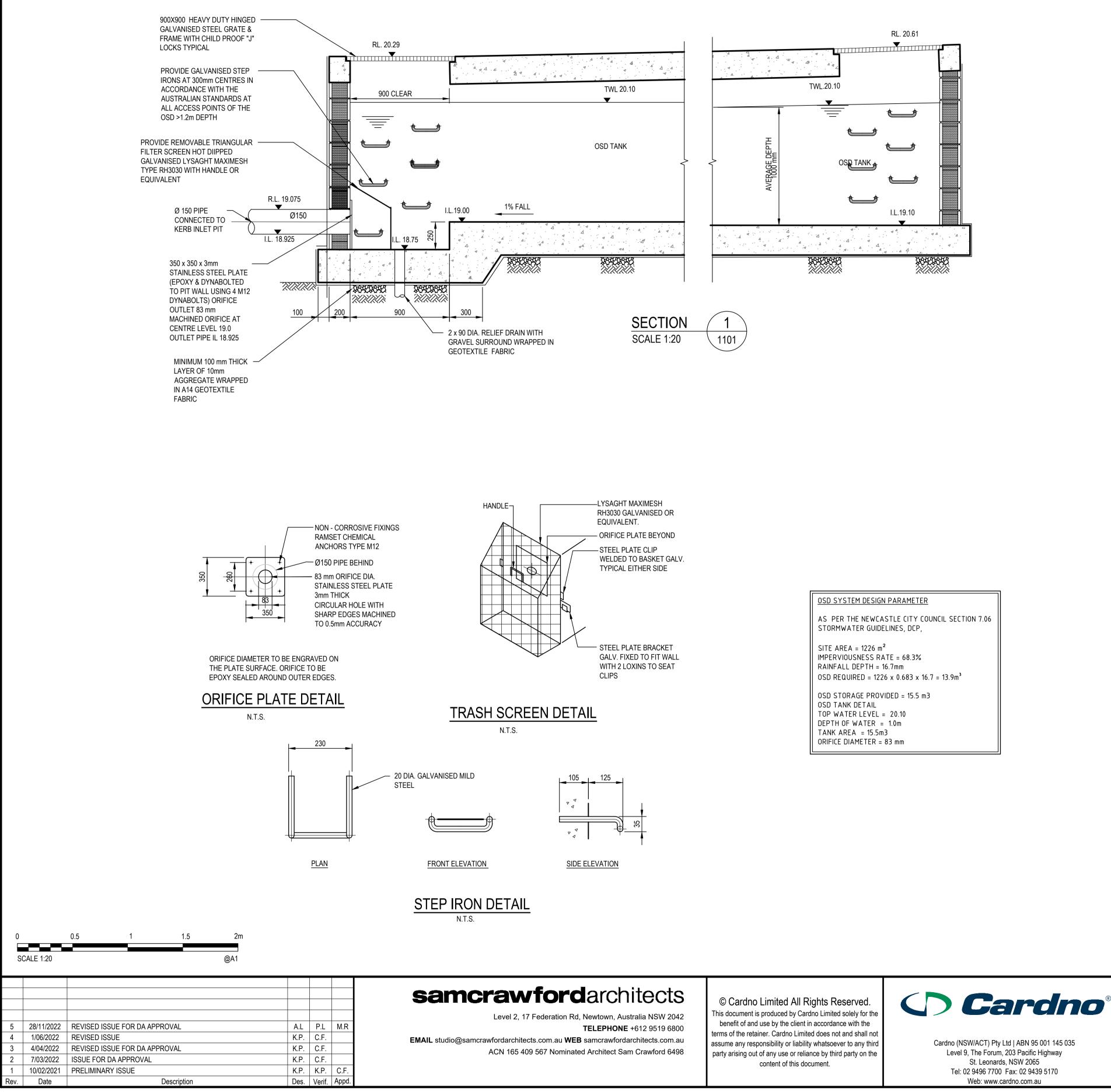


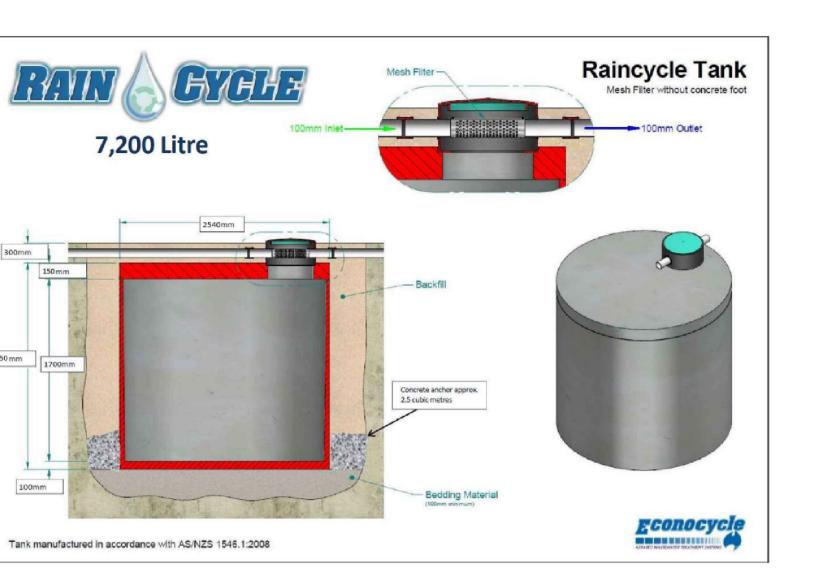
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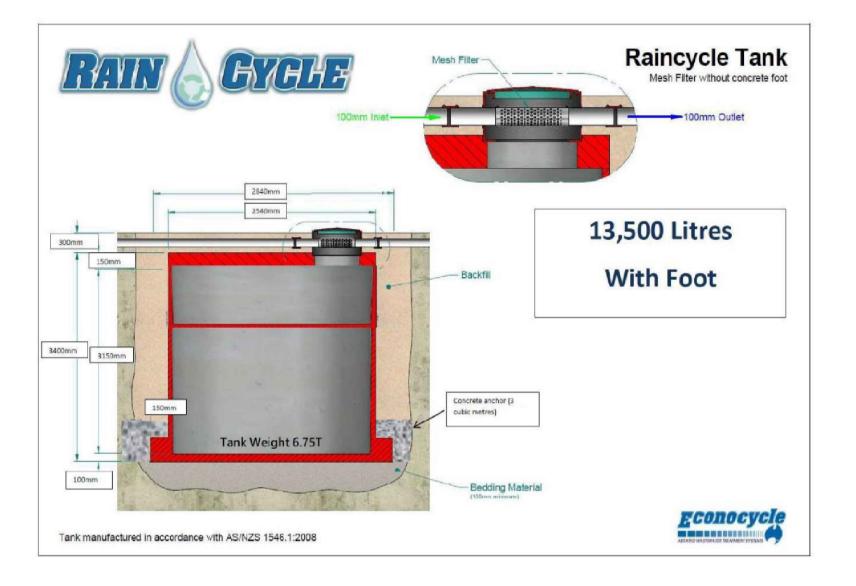


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Designed K.P.	Date FEB' 2022	47-49 CURRY STR
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Drawn K.P.	Date FEB' 2022	Client LAHC & SAM
Checked K.P.	Date FEB' 2022	Project PROPOSED DEVE
Designed K.P.	Date FEB' 2022	47-49 CURRY STR
Verified	Date	WALLSEND 2287
C.F. Approved	FEB' 2022	Title STORMWATER DE SHEET 3 OSD RAINWATER

#### RAINWATER TANK NOTES

1. RAINWATER TANK DIMENSIONS BASED ON PRODUCT SPECIFICATIONS PROVIDED BY RAINCYCLE. APPROVED EQUIVALENT TO BE NOMINATED IN DETAILED DESIGN STAGE SUBJECT TO STRUCTURAL REQUIREMENTS, MODEL AVAILABILITY, SITE CONSTRAINTS OR CONTRACTOR'S PREFERENCE. 2. UNDERGROUND WATER TANK TO BE SITUATED AT LEAST 6m OFF EXISTING

NEIGHBOURING DWELLINGS. STRUCTURAL IMPACT OF THE RAINWATER TANK PLACEMENT TOWARDS PROPOSED RESIDENTIAL BUILDING TO BE INVESTIGATED IN DETAILED DESIGN STAGE.

CEILING AND MANHOLE OF WATER TANK TO BE STRUCTURALLY DESIGNED UNDER TRAFFIC LOADING.

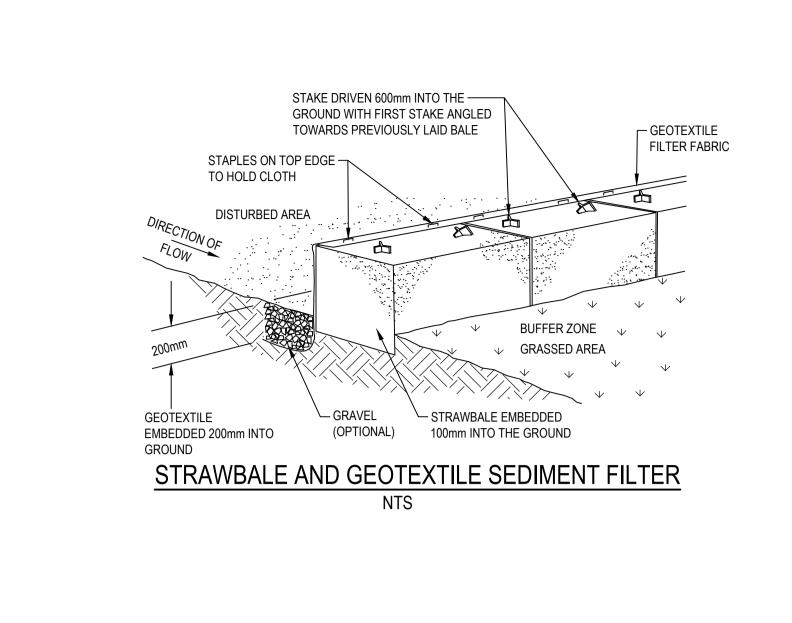
4. PROVIDE DRAWDOWN TO LOWER 50% VOLUME OF EACH RAINWATER TANK BY RETICULATION INTO EACH OF THE FOLLOWING NEW USES: SITE IRRIGATION SYSTEMS, EXTERNAL TAPS, ALL TOILETS, COLD WATER WASHING MACHINE TAPS AND LAUNDRY BASIN TAPS.

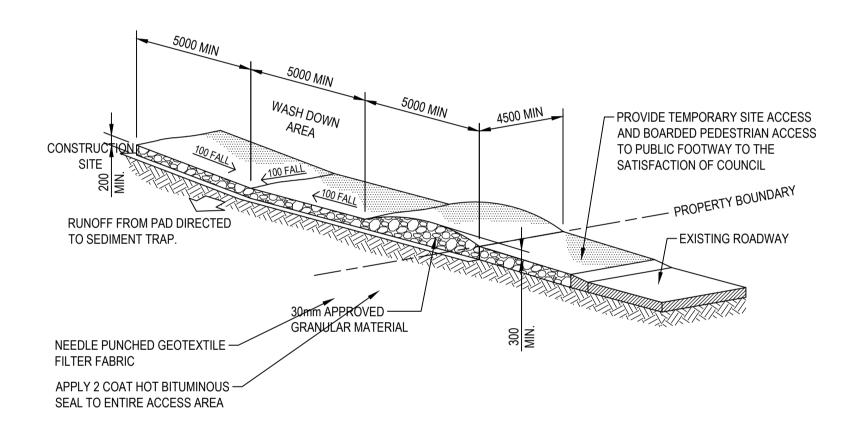
5. THE UPPER REMAINING CAPACITY OF EACH RAINWATER TANK IS TO DRAIN FROM THE TANK BY WAY OF A 5mm WEEP HOLE CONNECTED TO THE MAIN OVERFLOW PIPE FOR THE TANK.

6. MAINTAIN MINIMUM WATER DEPTH OF 100mm WITHIN ANY TANK.

7. DETAILS OF ROOF WATER HARVESTING AND RETICULATION SYSTEM TO BE PROVIDED BY HYDRAULIC ENGINEER IN DETAILED DESIGN STAGE, IN ACCORDANCE WITH AUSTRALIAN STANDARDS, BCA, NCC AND COUNCIL STORMWATER GUIDELINES.

ICRAWFORD ARCHITECTS					
ELOPMENT AT REET	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSE				
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ETAILS	Drawing Number				Revision
R TANK DETAILS	80822047-CI-2103				

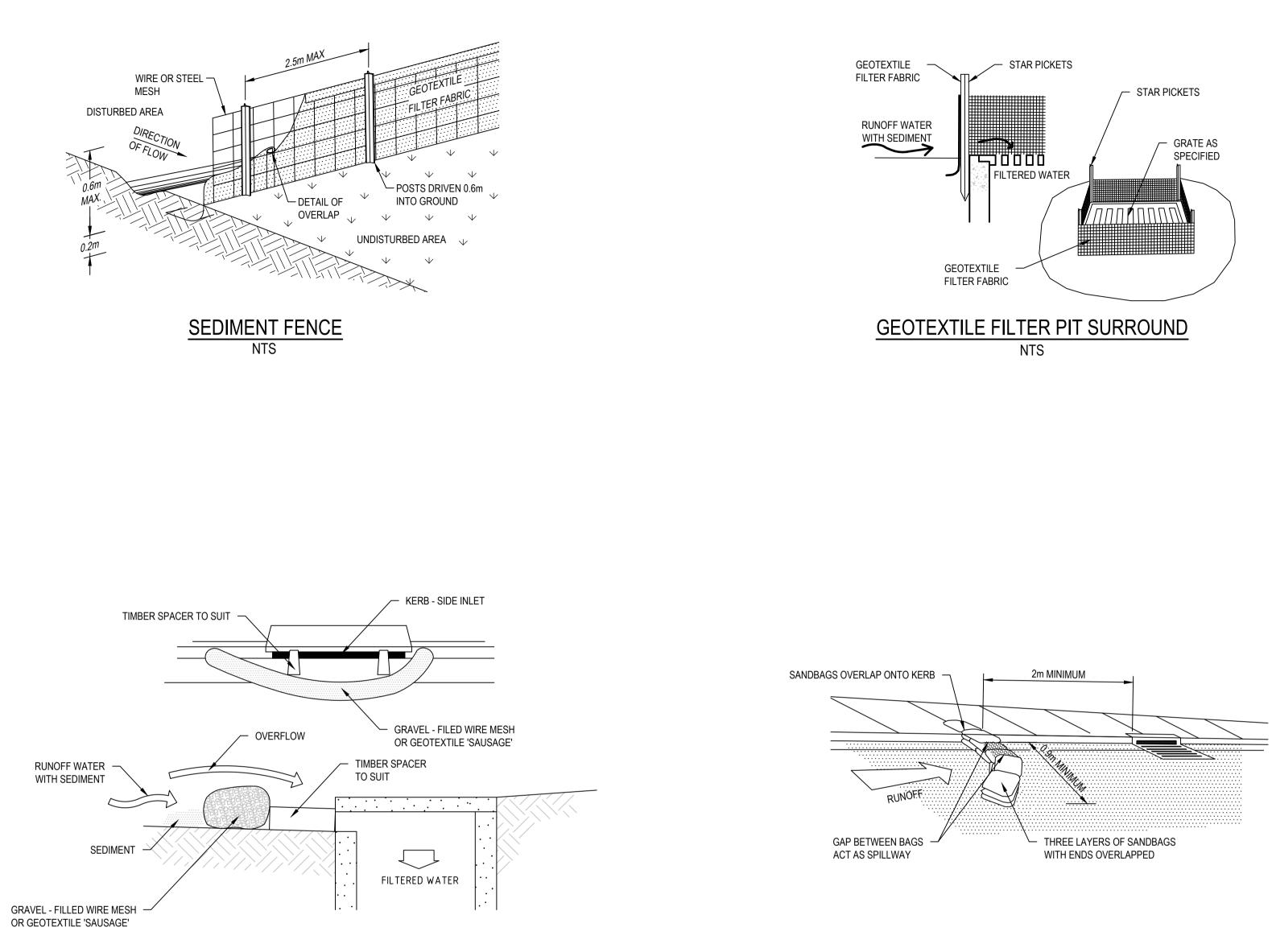




## STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA

4 1/06/2022	Image: Second systemImage: Second systemImage: Second systemImage: Second systemREVISED ISSUE FOR DA APPROVALA.LP.LREVISED ISSUE FOR DA APPROVALK.P.C.F.REVISED ISSUE FOR DA APPROVALK.P.C.F.ISSUE FOR DA APPROVALK.P.C.F.PRELIMINARY ISSUEK.P.C.F.DescriptionDes.Verif.	<b>Samcrawfordarchitects</b> Level 2, 17 Federation Rd, Newtown, Australia NSW 2042 TELEPHONE +612 9519 6800 EMAIL studio@samcrawfordarchitects.com.au WEB samcrawfordarchitects.com.au ACN 165 409 567 Nominated Architect Sam Crawford 6498	© Cardno Limited All Rights Reserved. This document is produced by Cardno Limited solely for the benefit of and use by the client in accordance with the terms of the retainer. Cardno Limited does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.	Cardno (NSW/ACT) Pty Ltd   ABN 95 001 145 035	Drawn K.P. Checked K.P. Designed K.P. Verified C.F. Approved	Date FEB' 2022ClientLAHC & SAMCDate FEB' 2022ProjectPROPOSED DEVELCDate FEB' 202247-49 CURRY STREE WALLSEND 2287Date FEB' 2022TitleSEDIMENTATION AN DETAILS
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## MESH AND GRAVEL INLET FILTER

### SANDBAG SEDIMENT TRAP

FOR KERB INLET ON GRADE

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AND EROSION CONTROL	Drawing Number				Revision	
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