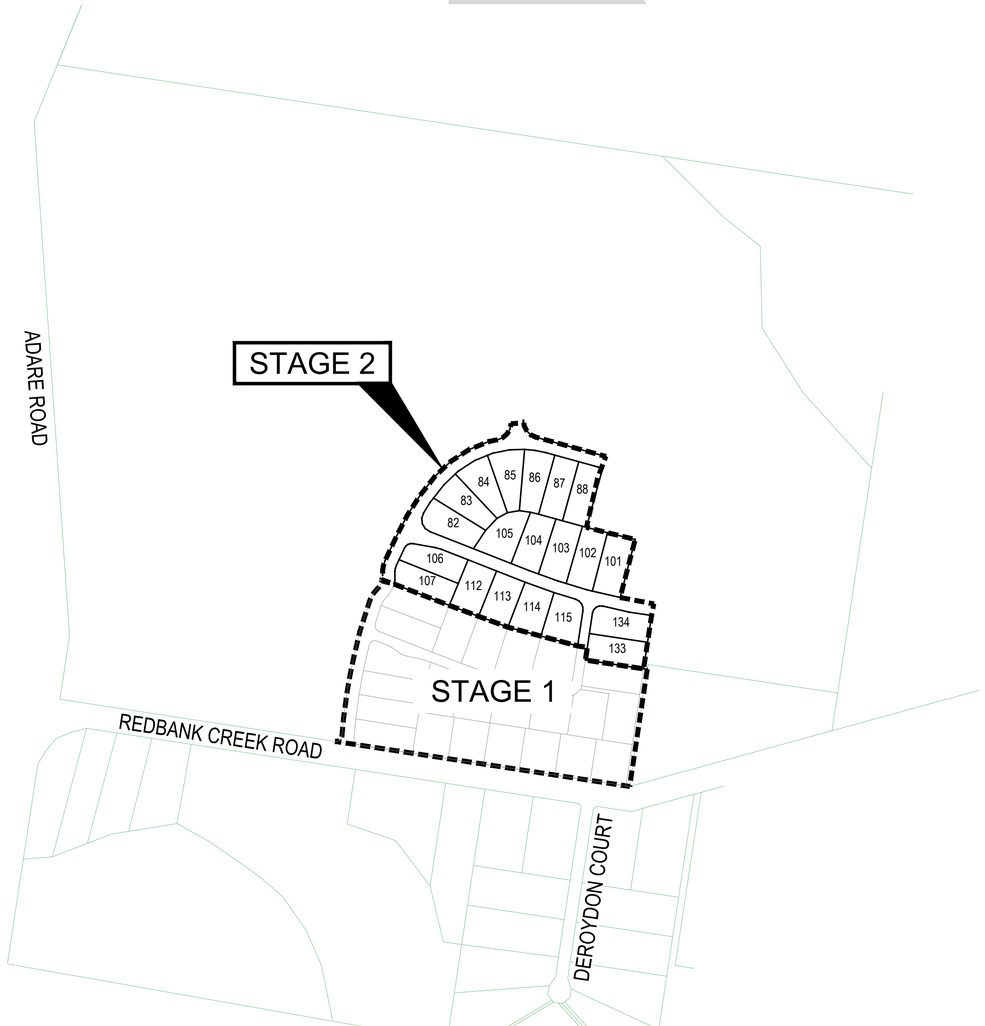
PROPOSED SUBDIVISION

PARKLAKE, ADARE - STAGE 2

174 ADARE ROAD, ADARE, QLD 4343



LOCALITY PLAN
SCALE 1:5000

CIVIL ENGINEERING DRAWINGS		
SHEET NUMBER	SHEET TITLE	REVISION
C2000	COVER SHEET	A
C2001	STANDARD NOTES	A
C2002	SITE PLAN	A
C2100	EROSION AND SEDIMENT CONTROL PLAN	A
C2190	EROSION AND SEDIMENT CONTROL DETAILS	A
C2191	EROSION AND SEDIMENT CONTROL NOTES	A
C2200	BULK EARTHWORKS PLAN	A
C2290	BULK EARTHWORKS DETAILS	A
C2300	PAVEMENT PLAN	A
C2400	ROADWORKS PLAN	A
C2430	SIGNS AND PAVEMENT MARKING PLAN	A
C2450	ROAD LONGITUDINAL SECTION - NEWLAND PLACE / HOWELL CIRCUIT - SHEET 1	A
C2451	ROAD LONGITUDINAL SECTION - NEWLAND PLACE / HOWELL CIRCUIT - SHEET 2	A
C2452	ROAD CROSS SECTIONS - NEWLAND PLACE / HOWELL CIRCUIT - SHEET 1	A
C2453	ROAD CROSS SECTIONS - NEWLAND PLACE / HOWELL CIRCUIT - SHEET 2	A
C2454	ROAD LONGITUDINAL SECTION - HOWELL CIRCUIT - SHEET 1	A
C2455	ROAD LONGITUDINAL SECTION - HOWELL CIRCUIT - SHEET 2	A
C2456	ROAD CROSS SECTIONS - HOWELL CIRCUIT - SHEET 1	A
C2457	ROAD CROSS SECTIONS - HOWELL CIRCUIT - SHEET 2	A
C2458	ROAD LONGITUDINAL AND CROSS SECTIONS - AXFORD WAY	A
C2480	INTERSECTION DETAILS	A
C2490	ROADWORKS DETAILS	A
C2500	DRAINAGE CATCHMENT PLAN	A
C2501	DRAINAGE PLAN	A
C2510	DRAINAGE BIO RETENTION BASIN DETAILS	A
C2550	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1	A
C2560	DRAINAGE CALCULATIONS	A
C2600	WATER RETICULATION COVER SHEET	A
C2601	WATER RETICULATION PLAN	A

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARKLAKE ADARE

N

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT
0 100 200 300 400 500m
SCALE 1:5000

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
COVER SHEET

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.		DRAWING No.	REVISION
BR222025		C2000	A

GENERAL NOTES

G1. ALL LEVELS SHALL BE OBTAINED FROM ESTABLISHED BMS OR SSM.

G2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.

G3. ALL WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH COUNCIL'S SPECIFICATIONS AND THE DIRECTIONS OF THE SUPERINTENDENT.

G4. DIMENSIONS MUST NOT BE SCALED FROM DRAWINGS.

G5. CONTRACTOR TO ENSURE THAT ALL ROADWORKS ARE SMOOTHLY TRANSITIONED TO EXISTING LEVELS FREE FROM ABRUPT CHANGES.

G6. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR. FURTHER, THE LOCATION OF RECOVERY MARKS SHOULD BE VERIFIED AND CONFIRMED BY THE CONTRACTOR AND ANY DISCREPANCIES SHOULD BE CLARIFIED IN WRITING WITH THE SUPERINTENDENT PRIOR TO THE COMMENCEMENT OF WORK.

G7. AT COMPLETION OF WORKS ALL ADJOINING DISTURBED AREAS ARE TO BE REINSTATED TO THE "AS FOUND" CONDITION.

G8. THE CONTRACTOR SHALL ENSURE ALL AREAS DRAIN WITH A MINIMUM FALL OF 1% (1:100) GRADE TO OUTLETS UNLESS INDICATED OTHERWISE. NO WORKS SHALL CAUSE PONDING OF STORMWATER ON UPSTREAM PROPERTIES OR CONCENTRATE RUNOFF ONTO DOWNSTREAM PROPERTIES.

G9. THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED LANDSCAPE, ARCHITECTURAL, ELECTRICAL, RETICULATION, WATER AND SEWER DRAWINGS AND SPECIFICATIONS AND OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.

G10. THE CONTRACTOR SHALL ENSURE THAT ALL PAVEMENTS GRADE EVENLY BETWEEN NOMINATED RL'S ON PLAN AND NO POND OF WATER OCCURS.

G11. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE. ALL LEVELS ARE EXPRESSED IN METERS.

G12. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING NO PART SHALL BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.

G13. WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT S.A.A. CODES INCLUDING ALL AMENDMENTS, AND THE LOCAL STATUTORY AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

G14 THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE ENGINEER BUT IS NOT AN AUTHORIZATION FOR AN EXTRA. ANY EXTRAS INVOLVED MUST BE TAKEN UP WITH THE SUPERINTENDENT BEFORE THE WORK COMMENCES.

G15 THE CONTRACTOR IS TO EMPLOY A QUALIFIED GEOTECHNICAL ENGINEER AS REQUIRED FOR ALL GEOTECHNICAL ASPECTS OF THE BUILDING WORKS. REFER TO FOUNDATION, GROUNDWORKS AND RETENTION/SHORING NOTES. REFER ALSO TO THE GEOTECHNICAL REPORT FOR THIS PROJECT.

G16 ORIGINAL SURVEY WAS COMPLETED BY BPLANNED & SURVEYED PH.1300 275 266

SUBGRADE PREPARATION

RW1. REMOVE ALL VEGETATION, TOPSOIL AND DELETERIOUS MATERIAL FROM AREA OF PROPOSED BUILDING PLATFORM AND PAVEMENTS.

RW2. PROOF ROLL EXPOSED SUB GRADE TO ACHIEVE A MINIMUM COMPACTION OF 98% STANDARD MAXIMUM DRY DENSITY (SMDD), DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARD 1289.5.1.1.

RW3. REMOVE ANY SOFT, HEAVING, WET OR UNSTABLE AREAS IDENTIFIED DURING PROOF ROLLING AND REPLACE USING SELECT IMPORTED FILL COMPACTED IN LAYERS NOT EXCEEDING 200mm MEASURED LOOSE TO ACHIEVE A MINIMUM 98% STANDARD MAXIMUM DRY DENSITY.

RW4. NOTE THAT THE SITE IS UNDERLAIN BY EXISTING SERVICES AND COMPACTION UTILISING VIBRATION MAY NOT BE SUITABLE IN THE VICINITY OF UNDERGROUND SERVICES.

RW5. ANY FILL REQUIRED TO RAISE LEVELS TO BULK EARTHWORKS TO WITHIN 50mm OF NOMINATED LEVELS IS TO BE APPROVED GRANULAR MATERIAL COMPACTED IN LAYERS NOT EXCEEDING 300mm MEASURED LOOSE TO 98% STANDARD MAXIMUM DRY DENSITY WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT (SOMC).

RW6. THE CONTRACTOR IS TO PROVIDE CERTIFICATION TO THE EFFECT THAT EARTHWORKS COMPACTION TO 98% STANDARD MAXIMUM DRY DENSITY, (AS 1289 E1.1, E4.1) HAS BEEN ACHIEVED, UNLESS OTHERWISE AGREED IN WRITING BY SITE SUPERINTENDENT.

RW7. THE CONTRACTOR IS TO PROVIDE TO THE SITE SUPERINTENDENT A SURVEY CONFIRMATION FROM A REGISTERED SURVEYOR, CONFIRMING BULK EARTHWORKS LEVELS AS WITHIN +/-50mm OF LEVELS NOMINATED.

RW8. SUBGRADE REPLACEMENT MATERIAL IS TO CONSIST OF CLEAN, UNCONTAMINATED, WELL-GRADED MATERIAL WITH A MAXIMUM PARTICLE SIZE OF 75mm, WITH 80% LESS THAN 20mm, AND A SOAKED C.B.R. GREATER THAN 10% AND A PLASTICITY INDEX LESS THAN 12.

RW9. BACK FILLING FOR SERVICE TRENCHES AND REMOVED SERVICES OR PITS OR FOUNDATIONS IS TO USE APPROVED WELL-GRADED GRANULAR MATERIAL WITH MINIMUM VOIDS, (EITHER SELECT INSITU OR IMPORTED FILL), COMPACTION AS SPECIFIED ABOVE.

RW10. ALL EARTHWORKS TO BE UNDERTAKEN IN ACCORDANCE WITH AS3798-1996: GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.

GENERAL EARTHWORKS

E1. THE SITE OF THE WORKS SHALL BE PREPARED BY STRIPPING ALL EXISTING TOPSOIL, FILL AND VEGETATION.

E2. COMPACT SUBGRADE TO 98% OF THE STANDARD MAXIMUM DRY DENSITY WHEN TESTED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS 1289 TESTS E.1.1. OR E.1.2. THE EXPOSED SUBGRADE SHOULD BE PROOF ROLLED TO DETECT ANY SOFT OR WET AREAS WHICH SHOULD BE LOCALLY EXCAVATED AND BACK FILLED WITH SELECTED MATERIAL. THE BACK FILLING MATERIAL SHALL BE IMPORTED GRANULAR FILL OF LOW PLASTICITY, PREFERABLY CRUSHED SANDSTONE, AND TO BE PLACED IN LAYERS NOT EXCEEDING 300mm LOOSE THICKNESS AND COMPACTED TO 98% OF STANDARD MAXIMUM DRY DENSITY WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT. SITE WORKS ARE TO BE BATTERED TO ADJACENT PROPERTY LEVELS.

E3. NO STORMWATER IS TO POND ON ADJOINING PROPERTIES. THE SITE SHALL BE GRADED AND DRAINED SO THAT STORMWATER WILL BE DIRECTED AWAY FROM THE BUILDING PLATFORM. STORMWATER DRAINAGE SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION. ALL STORMWATER RUNOFF SHALL BE GRADED AWAY FROM THE DWELLING AND DISPOSED OF VIA SURFACE CATCHDRAINS AND STORMWATER COLLECTION PITS.

E4. ENSURE ALL RETAINING WALLS ARE CONSTRUCTED WITH ADEQUATE SUBSOIL DRAINAGE.

GROUND WORKS AND EXCAVATION

GW1. ALL GROUND WORKS AND EXCAVATION SHALL BE IN ACCORDANCE WITH GEOTECHNICAL REPORT: 93323.00.R.01.Rev01.

GW2. SEPARATE AND REMOVE ALL TOPSOIL, NON SOIL MATERIAL, CONCRETE, VEGETATION, BRICKBATS, TIMBER, ROOT AFFECTED SOIL AND EXISTING FILL. STORE TOPSOIL IF REQUIRED.

GW3. ALL EXCAVATIONS SHALL BE FINISHED CLEAN AND HORIZONTAL AND SHALL NOT UNDERMINE FOOTINGS, WALLS etc...

GW4. PROOF ROLL WITH AN 8 TONNE ROLLER, REPLACE ANY SOFT MATERIAL WITH APPROVED FILL AND RE-COMPACT. GEOTECHNICAL ENGINEER TO APPROVE.

GW5. THE FILL IS TO BE PLACED AND COMPACTED IN LAYERS OF MAXIMUM LOOSE THICKNESS 300mm.

GW6. TOP LAYER OF PAVED AREAS TO BE COMPACTED TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY. GEOTECHNICAL ENGINEER TO VERIFY.

GW7. ALL PERMANENT EMBANKMENTS TO BE COMPACTED IN 200 mm LAYERS AS PER NOTE GW6 AND AT A MAXIMUM SLOPE OF 1 VERTICAL TO 2.5 HORIZONTAL UNLESS NOTED OTHERWISE. SHOULD DRAINAGE BE REQUIRED THEN SUBMIT DETAILS TO THE ENGINEER.

GW8. ALL GROUND WORKS SHALL BE TESTED BY AN APPROVED GEOTECHNICAL ENGINEER TO A LEVEL 1 STANDARD IN ACCORDANCE WITH AS 3798 - 1996.

GW9. ALL EXCAVATIONS TO BE INSPECTED AT REGULAR INTERVALS BY A GEOTECHNICAL ENGINEER.

GW10. REFER TO ARCHITECTURAL DRAWINGS TO CONFIRM SETOUT OF BUILDINGS, CARPARKS ETC.

GW11. THE LEVELS SHOWN ARE ONLY RELEVANT TO THE PLAN UPON WHICH THEY ARE SHOWN.

GW12. ALL CONTOURS AND LEVELS USED TO PRODUCE EARTHWORK DETAILS HAVE BEEN BASED ON SURVEYOR AND ARCHITECTS SURVEY INFORMATION.

GW13. ALL FINISHED FLOOR LEVELS ARE TO BE CONFIRMED BY ARCHITECT.

GW14. ALL EXISTING SERVICES ARE TO BE CAPPED OFF PRIOR TO ANY WORKS.

GW15. A PRE-CONSTRUCTION MEETING SHALL BE HELD BETWEEN THE CONTRACTOR, THE GEOTECHNICAL ENGINEER, AND THE EARTHWORKS CONTRACTOR TO UNDERSTAND POTENTIAL DIFFICULTIES AND TO ORGANISE TESTING PROCEDURES. THE CONTRACTOR SHALL CONFIRM TO THE ENGINEER THAT THE MEETING HAS BEEN HELD.

DRAINAGE NOTES

D1. PIT LEVELS SHOWN ON STORMWATER DRAINAGE PLANS ARE FOR INFORMATION. EXACT PIT LEVELS TO BE ADJUSTED TO SUIT FALLS IN PAVEMENT/LANDSCAPED AREA.

D2. PITS GREATER THAN 1.2m DEEP TO BE FITTED WITH STEP IRONS.

D3. DRAINAGE PIPES SHALL BE BACKFILLED WITH COMPACTED CLEAN SHARP SAND TO 200 ABOVE PIPE OBVERT. ADDITIONAL BACKFILL UNDER ROADS SHALL CONSIST OF CLASS 2 F.C.R. MATERIAL COMPACTED IN 200mm LAYERS TO 98% SMDD. UNDER LANDSCAPED AREAS ADDITIONAL BACKFILL SHALL CONSIST OF GRANULAR MATERIAL COMPACTED IN 200mm LAYERS TO 95% SMDD.
A 3m LENGTH OF 100 Ø SLOTTED AGRICULTURAL LINE SURROUNDED BY GEOTECH STOCKING SHALL BE PROVIDED ON THE UPSTREAM SIDE OF ALL PITS.

D4. CONCRETE STORMWATER PIPES TO BE CLASS '3' UNDER ROADS AND CLASS '2' IN NON-TRAFFICED AREAS. ALL PIPES GREATER THAN 300Ø ARE TO BE RUBBER RING JOINTS U.N.O.

D5. CONCRETE PITS GREATER THAN 1.0m DEEP TO BE REINFORCED WITH N12-200 EACH WAY CENTRED, MIN. 300 LAP, CONCRETE - F'c 25MPa

D6. 150Ø, 225Ø AND 300Ø uPVC PIPES TO BE SEWER GRADE PIPE UNDER TRAFFICABLE PAVEMENT. MIN. 400 COVER UNDER NON-TRAFFICABLE PAVEMENT.

D7. PIT COVERS AND GRATED DRAINS IN TRAFFICABLE PAVEMENT TO BE AS 3996 CLASS D "HEAVY DUTY" AND IN NON-TRAFFICABLE AREAS TO BE AS 3996 CLASS C "LIGHT DUTY".

UTILITY SERVICES

S1. CONDUITS TO BE PROVIDED FOR WATER AND ENERGY AUTHORITIES, TELSTRA AND OTHER SERVICES AS REQUIRED.

S2. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON THESE DRAWING'S HAVE BEEN PLOTTED FROM SURVEY AND AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.

S3. VAN DER MEER CANNOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS, ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN ARISING FROM ANY CAUSE WHATSOEVER.

S4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.

S5. CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ON SITE INCLUDING HAND EXCAVATION WHERE NECESSARY.

S6. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION OR FUTURE WORKS.

S7. CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

TELSTRA - DUTY OF CARE NOTE:
TELSTRA'S PLANS SHOW ONLY THE PRESENCE OF CABLES AND PLANT. THEY ONLY SHOW THEIR POSITION RELATIVE TO ROAD BOUNDARIES, PROPERTY FENCES ETC. AT THE TIME OF INSTALLATION AND TELSTRA DOES NOT WARRANT OR UPHOLD THAT SUCH PLANS ARE ACCURATE THEREAFTER DUE TO CHANGES THAT MAY OCCUR OVER TIME. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY.

THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR TELSTRA CABLES AND PLANT. BEFORE USING MACHINE EXCAVATORS TELSTRA PLANT MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POT HOLING TO IDENTIFY IT'S LOCATION. TELSTRA WILL SEEK COMPENSATION FOR DAMAGES CAUSED TO IT'S PROPERTY AND LOSSES CAUSED TO TELSTRA AND IT'S CUSTOMERS.

ELECTRICAL AND GAS NETWORK:
A MINIMUM OF 30 DAYS PRIOR TO COMMENCEMENT OF EXCAVATION WORKS THE SUBCONTRACTOR MUST CONTACT DIAL BEFORE YOU DIG.

RETAINING WALL GENERAL

GR1. BASE MATERIAL SHALL BE COMPACTED TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY (SMDD) WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT (SMOC) DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARD 1289.5.1.1. MINIMUM ALLOWABLE BEARING PRESSURE OF 150 kPa. GEOTECHNICAL ENGINEER EMPLOYED BY CONTRACTOR TO INSPECT AND CONFIRM.

GR2. DRAINAGE MATERIAL WITHIN AND IMMEDIATELY BEHIND THE WALL SHALL BE 12-20mm CLEAN AGGREGATE. DRAINAGE MATERIAL TO EXTEND A MINIMUM 300mm BEHIND WALL. COMPACT DRAINAGE MATERIAL.
ALTERNATIVELY, USE NO FINES CONCRETE, AS FOLLOWS:
- CONCRETE STRENGTH N15.
- 210kg/m3 PORTLAND CEMENT
- MAXIMUM AGGREGATE SIZE 20 mm.
- W/C RATIO 0.45 TO 0.55.
- DENSITY 1600 TO 2000 kg/m3.

GR3. INFILL SOIL SHALL BE CLASS 1 CONTROLLED FILL TO AS4678, OR AS SPECIFIED ON THE DRAWINGS. UNSUITABLE SOILS, SUCH AS HEAVY CLAYS OR ORGANIC SOILS WITH HIGH PLASTICITY, SHALL NOT BE USED IN THE REINFORCED SOIL MASS.

GR4. SPREAD BACKFILL IN UNIFORM LIFTS OF 200mm UNCOMPACTED THICKNESS. COMPACT TO MINIMUM 95% OF SMDD.
COMPACTION WITHIN 1.0 m BEHIND THE WALL SHALL BE ACCOMPLISHED BY USING A HAND-OPERATED PLATE COMPACTOR AND SHALL BEGIN BY RUNNING THE PLATE DIRECTLY ON THE BLOCK, THEN COMPACTING IN PARALLEL PATHS, PROGRESSIVELY AWAY FROM THE WALL FACE.

GR5. WHERE ROADWAYS OR BUILDING STRUCTURES ARE LOCATED ABOVE THE REINFORCED ZONE, COMPACT TO 98% SMDD WITHIN 2% OF SOMC DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARD 1289.5.1.1. COMPACTION TESTING SHALL BE TAKEN AT 1.2m BEHIND THE WALL.

PAVEMENT

F1. SUBGRADE SHALL BE PREPARED AS OUTLINED IN EARTHWORKS.

F2. PAVEMENT MATERIAL SHALL CONSIST OF APPROVED OR RIPPED SANDSTONE, NATURAL GRAVEL OR FINE CRUSH ROCK AS PER COUNCIL SPECIFICATION.

F3. PAVEMENT MATERIALS SHALL BE SPREAD IN LAYERS NOT EXCEEDING 150mm AND NOT LESS THEN 75mm COMPACTED THICKNESS. PAVEMENT MATERIALS SHALL BE SIZED AND OF A STANDARD OUTLINED IN AS1141.

F4. CRUSHED OR RIPPED SANDSTONE SHALL BE MINUS 75mm NOMINAL SIZE DERIVED FROM SOUND, CLEAN SANDSTONE FREE FROM OVERBURDEN, CLAY SEAMS, SHALE AND OTHER DELETERIOUS MATERIAL.

F5. PAVEMENT MATERIALS SHALL BE COMPACTED BY SUITABLE MEANS TO SATISFY THE FOLLOWING MINIMUM SPECIFICATIONS (AS PER AS1289.52)

DESCRIPTION	MODIFIED DENSITY RATIO
SUB-BASE	98% MDD
BASE COURSE	98% MDD
ASPHALTIC CONCRETE	97% MDD

AND SUBJECT TO COUNCIL'S CONSTRUCTION SPECIFICATION.

F6. TESTING FOR EACH LAYER SHALL BE UNDERTAKEN BY A N.A.T.A. REGISTERED LABORATORY IN ACCORDANCE WITH AS1289, AT NOT MORE THAN 50m INTERVALS AND A MINIMUM OF TWO PER LAYER. FURTHER FREQUENCY OF TESTING SHALL BE NO LESS THAN THAT REQUIRED BY AS3978-1996.

AS CONSTRUCTED

PRIVATE WORKS (SITE CIVIL WORKS)

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING AS-CONSTRUCTED DOCUMENTATION TO VAN DER MEER PRIOR TO PRACTICAL COMPLETION OF CIVIL WORKS:
PW.01 A COMPLETE SURVEY OF COMPLETED SURFACE INCLUDING SURFACE LEVELS OF ALL STRUCTURES INCLUDING BUT NOT LIMITED TO:
- STORMWATER MANHOLES AND PITS.
- BIO-RETENTION AREAS, INCLUDING BASE AND TOP OF FILTER TRENCH MATERIAL AND AREA INSTALLED, IF APPLICABLE.
- WATER SERVICE CONNECTION INCLUDING FITTINGS AND METERS.
- SEWERAGE PROPERTY CONNECTIONS INCLUDING MANHOLES.
- SEWER PUMP STATIONS, IF APPLICABLE.

PW.02 COPIES OF NATA TEST CERTIFICATE RESULTS IN RESPECT OF:
- THE COMPACTION OF FILL INCLUDING COMPACTION OF TRENCH BACKFILL.
- EARTHWORKS CERTIFICATION FROM GEOTECHNICAL RPEQ INCLUDING LEVEL 1 CERTIFICATION WHERE REQUIRED.
- THE SUB-GRADE CBR.
- THE SUB-GRADE COMPACTION.
- THE LOWER SUBBASE (CBR 15) MATERIAL QUALITY.
- THE LOWER SUBBASE (CBR 15) COMPACTION.
- THE SUB-BASE COURSE (CBR 45) MATERIAL QUALITY.
- THE SUB-BASE COURSE (CBR 45) COMPACTION.
- THE BASE COURSE (CBR 80) MATERIAL QUALITY.
- THE BASE COURSE (CBR 80) COMPACTION.
- THE PRIME OR PRIMER SEAL SPRAY AND APPLICATION RATES.
- THE AC CORE TESTS.
- ANY CONCRETE TESTING REQUIRED.
- CCTV VIDEO FOR UNDERGROUND STORMWATER INFRASTRUCTURE WORK.

PW.03 DURING CONSTRUCTION, DIGITAL PHOTOGRAPHS MUST:
- BE TAKEN OF COMPLEX CONSTRUCTIONS OR INSTALLATIONS WHICH WILL BE BELOW GROUND LEVEL OR NOT VISIBLE AFTER CONSTRUCTION COMPLETION OR AS REQUESTED ON SITE.
- BE TAKEN PRIOR TO BACKFILLING.
- INCLUDE A CHAINAGE OR EXACT LOCATION REFERENCE IN THE TITLE OF THE DIGITAL PHOTO FILE.
- BE DATE STAMPED.

COUNCIL WORKS

CW.01 TO PROVIDE AS CONSTRUCTED INFORMATION AS PER LOCAL COUNCIL SUBMISSION GUIDELINES REQUIREMENTS.

REINFORCED CONCRETE BLOCKWORK

M1. CONCRETE BLOCKS SHALL BE BORAL 'CORE FILL BLOCKS', DOUBLE-U TYPE, OR SIMILAR APPROVED.

M2. MINIMUM DURABILITY REQUIREMENTS:

LOCATION	SALT ATTACK RESISTANCE GRADE OF MASONRY UNIT	MORTAR CLASS	DURABILITY CLASS OF WALL TIES AND BUILT-IN COMPONENTS
INTERIOR MASONRY	GENERAL PURPOSE	M3	R3
EXTERIOR MASONRY ABOVE DAMP PROOF COURSE	GENERAL PURPOSE	M3	R3
BELOW DAMP PROOF COURSE OR IN CONTACT WITH GROUND	EXPOSURE	M4	R4

M3. MINIMUM STRENGTH REQUIREMENTS:

ELEMENT	STRENGTH OF MASONRY UNIT	MORTAR CLASS #
CONCRETE BLOCKWORK (REINF)	f'uc = 15 MPa	M3

UNLESS A HIGHER CLASSIFICATION IS REQUIRED FOR DURABILITY (REFER NOTE M2).

M4. LAY BOTTOM COURSE OF BLOCKS ON FULL MORTAR BED.
ALL PERPENDS SHALL BE FILLED WITH MORTAR, EXCEPT WEEPHOLES.
M5. ALL CORES SHALL BE GROUTED UNLESS NOTED OTHERWISE.
M6. GROUT FOR CORE FILLING SHALL BE IN ACCORDANCE WITH AS3600, WITH THE FOLLOWING PROPERTIES:
- STRENGTH GRADE S20
- MAX. AGGREGATE SIZE 10mm
- SLUMP 230mm ± 25mm
- MIN. CEMENT CONTENT 300kg/m³ M7. PROVIDE VERTICAL CONTROL JOINTS IN MASONRY WALLS AS FOLLOWS :

WALL TYPE	JOINT WIDTH	MAX JOINT SPACING
CONCRETE BLOCKWORK (REINF)	15mm	12m

M7. AT CORNERS, CONTROL JOINTS SHALL BE WITHIN HALF THE SPECIFIED JOINTS SPACING FROM THE CORNER. JOINTS SHALL BE SEALED WITH AN APPROVED FLEXIBLE SEALANT. PROVIDE JOINTS TO MATCH JOINTS IN SUPPORTING SLABS.
M8. PROVIDE CLEANOUT OPENINGS AT THE BASE OF ALL REINFORCED CORES AND REMOVE ALL MORTAR PROTRUSIONS BEFORE GROUTING. ADDITIONAL CLEANOUT OPENINGS SHALL BE PROVIDED ABOVE EACH HORIZONTAL POUR BREAK.
M9. MAXIMUM HEIGHT OF POUR FOR GROUTING SHALL NOT EXCEED 3.6m FOR 190 LOCKWORK, AND 0.8m FOR 140 BLOCKWORK. STOP POUR 50mm BELOW TOP OF BLOCK TO PROVIDE KEY FOR SUBSEQUENT POUR.
M10. GROUT SHALL BE THOROUGHLY COMPACTED IN THE CORES BY RODDING OR MECHANICAL VIBRATION.

CONCRETE

C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 AND OTHER RELEVANT AUSTRALIAN STANDARDS.

C2. CONCRETE SHALL BE SUPPLIED BY AN APPROVED MANUFACTURER IN ACCORDANCE WITH AS1379.

C3. CONCRETE SHALL HAVE THE FOLLOWING PARAMETERS:

ELEMENT	SLUMP (mm)	AGGREGATE	f'c (MPa)	OTHER REQ
EXTERNAL VEHICLE SLAB	+ 80	20	N32	(1)

+ DENOTES SLUMP AT PLANT
(1) DENOTES MAXIMUM BASE SHRINKAGE STRAIN 600 x 10^{-6} AT 56 DAYS (TO AS 1012 PART 13)

C4. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.

C5. BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS, IF ANY.

C6. HOLES, CHASES OR EMBEDMENT ITEMS, INCLUDING PIPES AND CONDUITS SHALL NOT BE PLACED IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.

C7. CONDUITS, PIPES AND LIKE SHALL NOT BE PLACED WITHIN THE CONCRETE COVER, NOR DISPLACE THE REINFORCEMENT LAYERS.

C8. CONSTRUCTION JOINTS (CJ) SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER. ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY SCABBLED.

C9. THE MAXIMUM HEIGHT OF POUR FOR CONCRETE ELEMENTS SHALL BE 3m UNLESS METHOD OF PLACEMENT HAS BEEN APPROVED BY THE ENGINEER. COLUMNS SHALL NOT BE POURED WITH THE SLAB OVER.

C10. CONCRETE SHALL BE THOROUGHLY COMPACTED IN THE FORMS BY MEANS OF MECHANICAL VIBRATION.

C11. WHEN THE SHADE TEMPERATURE EXCEEDS 35°C, THE EXPOSED SURFACE OF CONCRETE SHALL BE SPRAYED WITH A FINE FILM OF APPROVED ALIPHATIC ALCOHOL DURING CONCRETE PLACEMENT AND FINISHING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ENSURING ADEQUATE SUPPLY OF ALIPHATIC ALCOHOL ON SITE BEFORE COMMENCING CONCRETE WORK.

C12. CURING OF CONCRETE SHALL COMMENCE WITHIN 2 HOURS OF FINISHING OPERATIONS AND SHALL BE MAINTAINED FOR A MINIMUM OF 7 DAYS USING AN APPROVED PROPRIETARY CURING COMPOUND IN ACCORDANCE WITH AS 3799 AND COMPATIBLE WITH THE PROPOSED FINISH OR CONTINUOUS PONDING WITH POTABLE WATER.
THE CONTRACTOR TO SUBMIT PROPOSED CURING PROCEDURE FOR APPROVAL OF THE ENGINEER.

C13. ALL CONCRETE DELIVERED TO SITE SHALL BE SUBJECT TO PROJECT ASSESSMENT IN ACCORDANCE WITH AS 1379.

C14. THE CONTRACTOR SHALL NOMINATE A CONCRETE DELIVERY SUPERVISOR WHO SHALL BE A SUITABLE EXPERIENCED PERSON FOR THE APPROVAL OF THE ENGINEER, TO MONITOR THE DELIVERY AND PLACING OF THE CONCRETE FOR EACH POUR ON THE PROJECT. IN ADDITION, THE MANUFACTURER SHALL SAMPLE AND TEST FOR DRYING SHRINKAGE EACH TYPE OF CONCRETE SUPPLIED, AT LEAST EVERY MONTH DURING THE COURSE OF THE PROJECT OR FOR EVERY 1000 CUBIC METRES PLACED. NATA TEST CERTIFICATES SHALL BE FORWARDED TO THE ENGINEER. THE RESULTS OF THESE TESTS SHALL ALSO BE KEPT ON SITE.

C15. ## CONCRETE SAMPLES AND TESTS

ARRANGE FOR A NATA REGISTERED TESTING LABORATORY TO TAKE SAMPLES OF AND TEST CONCRETE FOR COMPRESSION, FLEXURAL TENSILE STRENGTH (SLABS ON GROUND ONLY) AND SLUMP.

COMPRESSION TEST SAMPLES SHALL CONSIST OF 3 STANDARD CYLINDERS (4 STANDARD CYLINDERS FOR POST-TENSIONED CONCRETE), TESTED FOR COMPRESSIVE STRENGTH AS FOLLOWS:

ONE (1) CYLINDER AT 3 DAYS FOR POST-TENSIONED CONCRETE ONLY.
ONE (1) CYLINDER AT 7 DAYS.
TWO (2) CYLINDERS AT 28 DAYS.

THE MINIMUM NUMBER OF DAILY SAMPLES SHALL BE AS FOLLOWS:

IN COLUMNS/WALLS: 1 SAMPLE PER TRUCK

ALL OTHER CONCRETE OF ANY ONE TYPE AS FOLLOWS:
1 TRUCK PER DAY - 1 SAMPLE
2 TO 5 TRUCKS PER DAY - 2 SAMPLES
6 TO 10 TRUCKS PER DAY - 3 SAMPLES
10 TO 20 TRUCKS PER DAY - 4 SAMPLES
FOR EACH ADDITIONAL 10 TRUCKS PER DAY, 1 SAMPLE.

SLUMP: 1 SAMPLE PER TRUCK AT TIME OF POURING.

C16. REFER TO TYPICAL STRIPPING AND PROPPING DETAIL.

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
STANDARD NOTES

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.	REVISION	
BR222025	C2001	A	

CONTROL LINE SETOUT - NEWLAND PLACE / HOWELL CIRCUIT

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 5	303.631	429943.369	6954311.485				
IP 6	303.631	429943.369	6954311.485				
TC	309.590	429944.402	6954317.352	9°59'16.21"			
IP 7	311.899	429944.804	6954319.633		R = -26.370	4.619	10°02'09.55"
CT	314.209	429944.802	6954321.948	359°57'06.66"			
TC	320.317	429944.797	6954328.057	359°57'06.66"			
IP 8	329.043	429944.789	6954336.924		R = 40.000	17.452	24°59'52.58"
CT	337.769	429948.530	6954344.963	24°56'59.24"			
TC	380.669	429966.626	6954383.859	24°56'59.24"			
IP 9	426.639	429986.103	6954425.724		R = 400.000	91.941	13°10'10.23"
CT	472.609	430014.606	6954462.050	38°07'09.47"			
TC	486.314	430023.066	6954472.832	38°07'09.47"			
IP 10	588.476	430094.539	6954563.922		R = 174.000	204.324	67°16'51.54"
CT	690.638	430206.164	6954533.175	105°24'01.02"			
TC	771.374	430284.001	6954511.734	105°24'01.02"			
IP 11	776.659	430289.096	6954510.331		R = -1000.000	10.570	0°36'20.31"
CT	781.944	430294.206	6954508.981	104°47'40.70"			
TC	894.815	430403.335	6954480.159	104°47'40.70"			
IP 12	901.217	430409.526	6954478.524		R = -1000.000	12.805	0°44'01.13"
CT	907.620	430415.736	6954476.969	104°03'39.57"			
IP 13	1015.374	430520.262	6954450.789				
IP 14	1091.343	430612.039	6954428.802		R = 101.268	151.938	85°57'48.99"
CC	1167.312	430596.566	6954335.705	189°26'10.82"			
IP 15	1243.280	430581.093	6954242.607		R = 101.268	151.938	85°57'48.99"
IP 16	1319.249	430487.138	6954251.489				
TC	1457.484	430350.433	6954271.998	278°31'55.73"			
IP 17	1469.050	430338.989	6954273.715		R = 300.000	23.132	4°25'04.27"
CT	1480.616	430327.712	6954276.308	282°57'00.00"			
TC	1508.227	430300.803	6954282.495	282°57'00.00"			
IP 18	1580.123	430230.607	6954298.637		R = 970.000	143.792	8°29'36.60"
CT	1652.019	430163.565	6954324.969	291°26'36.60"			
TC	1787.157	430037.782	6954374.373	291°26'36.60"			
IP 19	1797.091	430028.505	6954378.017		R = -100.000	19.868	11°22'59.69"
IP 20	1807.025	430018.692	6954379.758				
IP 21	1837.377	429988.806	6954385.061				
IP 22	1840.307	429985.886	6954385.542		R = 17.221	5.860	19°29'51.00"
IP 23	1843.238	429983.295	6954386.970				
IP 24	1856.913	429971.046	6954393.053	296°24'39.79"			

CONTROL LINE SETOUT - AXFORD WAY

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
CT	367.904	430252.872	6954153.274	8°32'37.00"			
TC	464.420	430267.210	6954248.719	8°32'37.00"			
IP 8	479.929	430269.516	6954264.070		R = 300.000	31.019	5°55'26.75"
CT	495.438	430273.395	6954279.100	14°28'03.75"			
IP 9	505.233	430275.842	6954288.585	14°28'03.75"			

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARKLAKE ADARE

N

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

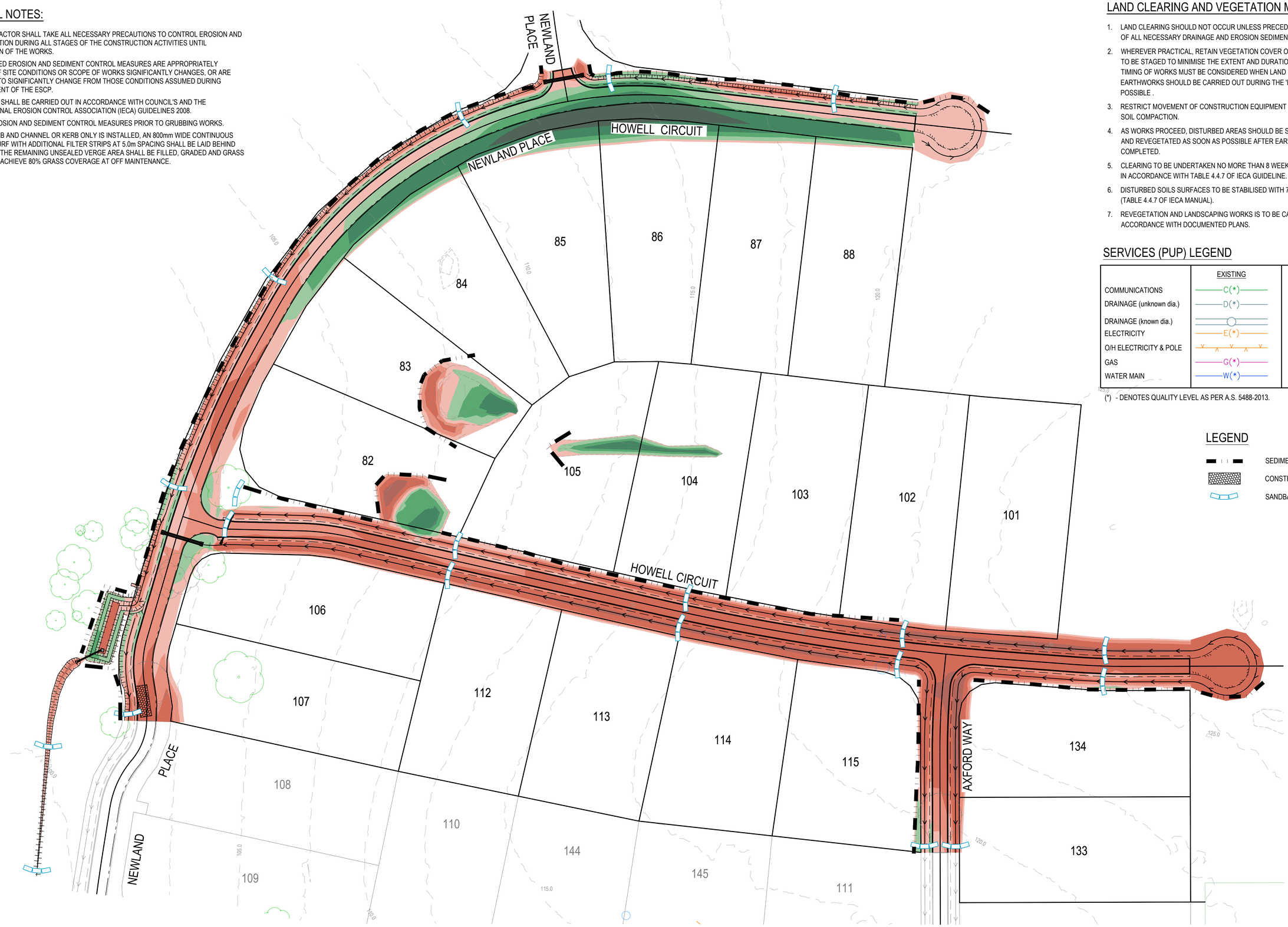
DRAWING TITLE
SITE PLAN

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2002		A

GENERAL NOTES:

1. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND SEDIMENTATION DURING ALL STAGES OF THE CONSTRUCTION ACTIVITIES UNTIL COMPLETION OF THE WORKS.
2. THE ADOPTED EROSION AND SEDIMENT CONTROL MEASURES ARE APPROPRIATELY AMENDED IF SITE CONDITIONS OR SCOPE OF WORKS SIGNIFICANTLY CHANGES, OR ARE EXPECTED TO SIGNIFICANTLY CHANGE FROM THOSE CONDITIONS ASSUMED DURING DEVELOPMENT OF THE ESCP.
3. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S AND THE INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA) GUIDELINES 2008.
4. INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO GRUBBING WORKS.
5. WHERE KERB AND CHANNEL OR KERB ONLY IS INSTALLED, AN 800mm WIDE CONTINUOUS STRIP OF TURF WITH ADDITIONAL FILTER STRIPS AT 5.0m SPACING SHALL BE LAID BEHIND ALL KERBS. THE REMAINING UNSEALED VERGE AREA SHALL BE FILLED, GRADED AND GRASS SEEDED TO ACHIEVE 80% GRASS COVERAGE AT OFF MAINTENANCE.



LAND CLEARING AND VEGETATION MANAGEMENT:

1. LAND CLEARING SHOULD NOT OCCUR UNLESS PRECEDED BY THE INSTALLATION OF ALL NECESSARY DRAINAGE AND EROSION SEDIMENT CONTROL MEASURES.
2. WHEREVER PRACTICAL, RETAIN VEGETATION COVER ON SITE. LAND CLEARING IS TO BE STAGED TO MINIMISE THE EXTENT AND DURATION OF SOIL EXPOSURE. TIMING OF WORKS MUST BE CONSIDERED WHEN LAND CLEARING - BULK EARTHWORKS SHOULD BE CARRIED OUT DURING THE 'DRY SEASON' WHEN POSSIBLE .
3. RESTRICT MOVEMENT OF CONSTRUCTION EQUIPMENT TO AVOID UNNECESSARY SOIL COMPACTION.
4. AS WORKS PROCEED, DISTURBED AREAS SHOULD BE STABILISED, REHABILITATED, AND REVEGETATED AS SOON AS POSSIBLE AFTER EARTHWORKS HAVE BEEN COMPLETED.
5. CLEARING TO BE UNDERTAKEN NO MORE THAN 8 WEEKS AHEAD OF EARTHWORKS IN ACCORDANCE WITH TABLE 4.4.7 OF IECA GUIDELINE.
6. DISTURBED SOILS SURFACES TO BE STABILISED WITH 70% COVER WITHIN 30 DAYS (TABLE 4.4.7 OF IECA MANUAL).
7. REVEGETATION AND LANDSCAPING WORKS IS TO BE CARRIED OUT IN ACCORDANCE WITH DOCUMENTED PLANS.

SERVICES (PUP) LEGEND

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

LEGEND

- SEDIMENT FENCING
- CONSTRUCTION ENTRY / EXIT
- SANDBAG CHECK DAM

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARKLAKE ADARE

N

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

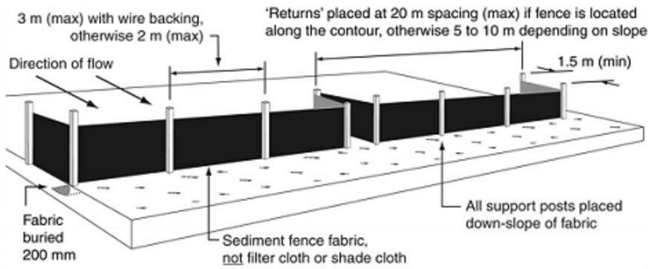
0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

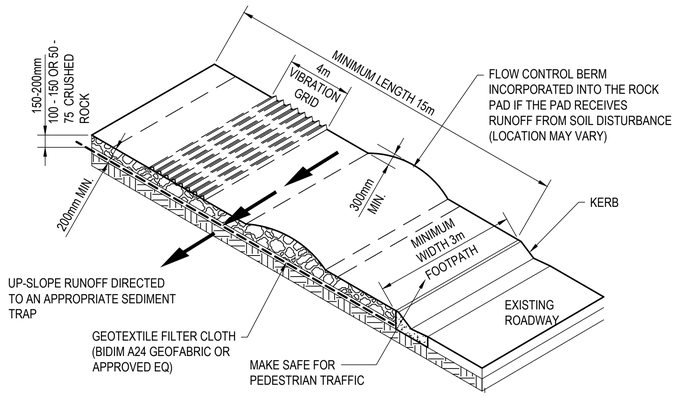
DRAWING TITLE
EROSION AND SEDIMENT CONTROL PLAN

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

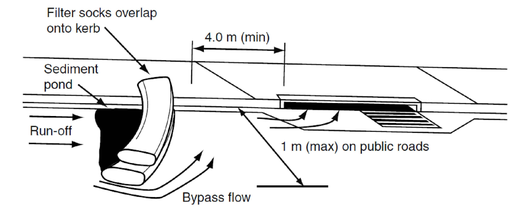
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.		DRAWING No.	REVISION
BR222025		C2100	A



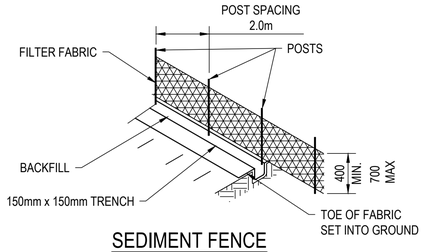
TYPICAL INSTALLATION OF A SEDIMENT FENCE
NOT TO SCALE



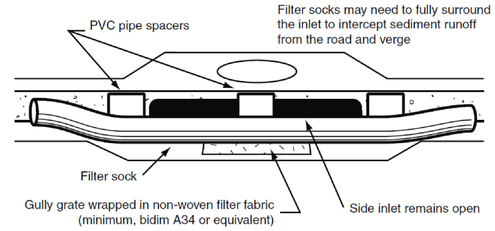
CONSTRUCTION ENTRY/EXIT POINT DETAIL
NOT TO SCALE



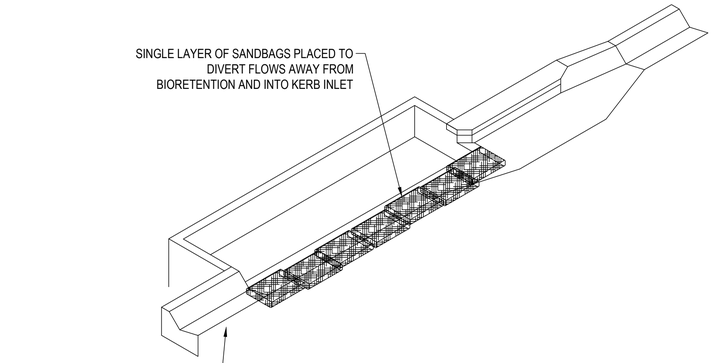
ON-GRADE KERB INLET SEDIMENT TRAP
NOT TO SCALE



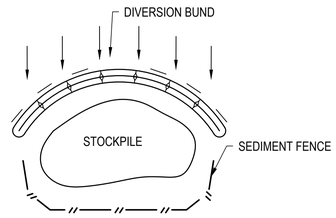
SEDIMENT FENCE
NOT TO SCALE



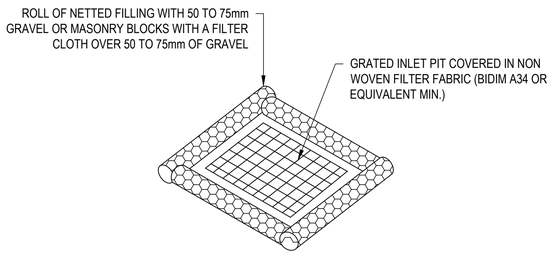
SAG INLET SEDIMENT TRAP
NOT TO SCALE



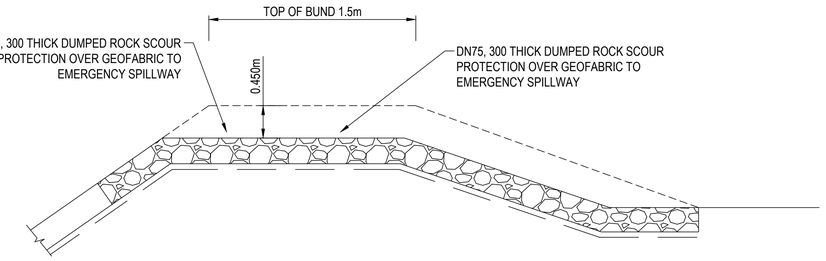
BIORETENTION INLET DIVERSION
NOT TO SCALE



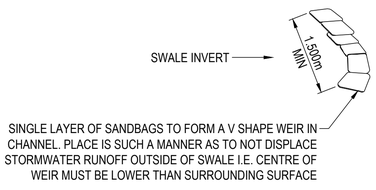
STOCKPILE SEDIMENT CONTROL
NOT TO SCALE



FIELD INLET SEDIMENT TRAP
NOT TO SCALE



SEDIMENT BASIN EMERGENCY SPILLWAY DETAIL
NOT TO SCALE



TYPICAL SAND BAG CHECK DAM
NOT TO SCALE

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
EROSION AND SEDIMENT CONTROL DETAILS

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2190		A

SEDIMENT FENCE

MATERIALS

1. FABRIC: POLYPROPYLENE, POLYAMIDE, NYLON, POLYESTER OR POLYETHYLENE WOVEN OR NON-WOVEN FABRIC, AT LEAST 700mm IN WIDTH AND A MINIMUM UNIT WEIGHT OF 140GSM.
2. SUPPORT POSTS/STAKES AND STEEL STAR PICKETS SUITABLE FOR ATTACHING FABRIC.

INSTALLATION

1. WHERE POSSIBLE INSTALL SEDIMENT FENCE AT LEAST 2m FROM THE TOE OF ANY FILLING OPERATIONS THAT MAY RESULT IN SHIFTING SOIL/FILL DAMAGING THE FENCE.
2. ENSURE THE EXTREME ENDS OF THE FENCE ARE TURNED UP THE SLOPE AT LEAST 1.5m OR AS NECESSARY TO MINIMISE WATER BYPASSING AROUND THE FENCE.
3. ENSURE THE SEDIMENT FENCE IS INSTALLED IN A MANNER THAT AVOIDS THE CONCENTRATION OF FLOW ALONG THE FENCE AND THE UNDESIRABLE DISCHARGE OF WATER AROUND THE ENDS OF THE FENCE.
4. IF THE SEDIMENT FENCE IS TO BE INSTALLED ALONG THE EDGE OF THE EXISTING TREES, ENSURE CARE IS TAKEN TO PROTECT THE TREES AND THEIR ROOT SYSTEMS DURING INSTALLATION OF THE FENCE.
5. UNLESS DIRECTED BY THE SITE SUPERVISOR OR THE APPROVED PLANS, EXCAVATE A 200mm WIDE BY 200mm DEEP TRENCH ALONG THE PROPOSED FENCE LINE, PLACING THE EXCAVATED MATERIAL ON THE UP-SLOPE SIDE OF THE TRENCH.
6. ALONG THE LOWER SIDE OF THE TRENCH, APPROPRIATELY SECURE THE STAKES INTO THE GROUND SPACED NO GREATER THAN 3m IF SUPPORTED BY A TOP SUPPORT WIRE OR WEIR MESH BACKING, OTHERWISE NO GREATER THAN 2m.
7. WHEREVER POSSIBLE, CONSTRUCT THE SEDIMENT FENCE FROM A CONTINUOUS ROLL OF FABRIC. TO JOIN FABRIC ATTACH EACH END OF TWO OVERLAPPING STAKES WITH THE FABRIC FOLDING AROUND THE ASSOCIATED STAKE ONE TURN AND WITH TWO STAKES TIED TOGETHER WITH THE WIRE METHOD OR OVERLAP THE FABRIC TO THE NEXT ADJACENT SUPPORT POST.
8. SECURELY ATTACH THE FABRIC TO THE SUPPORT POSTS USING 25 X 12.5mm STAPLES, OR TIE WIRE AT MAXIMUM 150mm SPACING.
9. SECURELY ATTACH THE FABRIC TO THE SUPPORT WIRE/MESH (IF ANY) AT A MAXIMUM SPACING OF 1m.
10. ENSURE THE COMPLETED SEDIMENT FENCE IS AT LEAST 450mm, BUT NOT MORE THAN 700mm HIGH. IF A SPILL THROUGH WEIR IS INSTALLED, ENSURE THE CREST OF THE WEIR IS AT LEAST 300mm ABOVE GROUND LEVEL.
11. BACKFILL THE TRENCH AND TAMP THE FILL TO FIRMLY ANCHOR THE BOTTOM OF THE FABRIC AND MESH TO PREVENT WATER FROM FLOWING UNDER THE FENCE.
12. IF IT IS NOT POSSIBLE TO ANCHOR THE FABRIC IN AN EXCAVATED TRENCH, THEN USE A CONTINUOUS LAYER OF SAND OR AGGREGATE TO HOLD THE FABRIC FIRMLY ON THE GROUND.

MAINTENANCE

1. INSPECT THE SEDIMENT FENCE AT LEAST WEEKLY AND AFTER ANY SIGNIFICANT RAIN. MAKE NECESSARY REPAIRS IMMEDIATELY.
2. REPAIR ANY TORN SECTIONS WITH A CONTINUOUS PIECE OF FABRIC FROM POST TO POST.
3. WHEN MAKING REPAIRS, ALWAYS RESTORE THE SYSTEM TO ITS ORIGINAL CONFIGURATION UNLESS AN AMENDED LAYOUT IS REQUIRED OR SPECIFIED.
4. IF THE FENCE IS SAGGING BETWEEN STAKES, INSTALL ADDITIONAL SUPPORT POSTS.
5. REMOVE ACCUMULATED SEDIMENT IF THE SEDIMENT DEPOSIT EXCEEDS A DEPTH OF 1/3 THE HEIGHT OF THE FENCE.
6. DISPOSE OF SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

SEDIMENT BASINS

GENERAL

1. SEDIMENT BASIN TO BE LOCATED ABOVE THE 5YR FLOOD LINE. INSTALL SEDIMENT BASINS FOR ALL CATCHMENTS ACROSS THE PROJECT AREA.
2. MATERIALS USED IN THE CONSTRUCTION OF SEDIMENT BASINS SHOULD NOT HAVE AN EMERSON NUMBER OF 3 OR ABOVE (I.E. DISPERSIVE SOILS SUCH AS THE SUBSOILS THAT CAN BE ENCOUNTERED AT THE SITE CANNOT BE USED TO CONSTRUCT SEDIMENT BASINS).
3. A " FULL OF SEDIMENT" MARKER MUST BE PLACED IN THE SEDIMENT BASIN TO SHOW THE DESIGN DEPTH OF THE SOIL/STORAGE ZONE VOLUME AND TO INDICATE WHEN REMOVAL OF THE SEDIMENT IS TO BE CARRIED OUT.
4. CONSTRUCTED SEDIMENT BASINS TO BE FULLY OPERATIONAL THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL THE BASINS CATCHMENT AREA ACHIEVES 70% GROUND COVER ON ALL SOIL SURFACES.
5. FLOCCULATION REQUIREMENTS TO BE IN ACCORDANCE WITH TABLE B17 OF THE IECA GUIDELINES. IN GENERAL 32kg OF GYPSUM TO BE ADDED TO 100m³ OF STORED WATER.

MAINTENANCE

1. INSPECT THE SEDIMENT BASIN DURING THE FOLLOWING PERIODS AS STATED WITHIN PAGE B.52 OF THE IECA GUIDELINES:
   - 1.1. DURING CONSTRUCTION TO DETERMINE WHETHER MACHINERY, FALLING TREES OR CONSTRUCTION ACTIVITY HAS DAMAGED ANY COMPONENT OF THE SEDIMENT BASIN. IF DAMAGE HAS OCCURRED, REPAIR IT.
   - 1.2. AFTER EACH RUNOFF EVENT. INSPECT THE EROSION DAMAGE AT FLOW ENTRY AND EXIT POINTS. IF DAMAGE HAS OCCURRED, MAKE THE NECESSARY REPAIRS.
   - 1.3. AT LEAST WEEKLY DURING THE NOMINATED WET SEASON (IF ANY) OTHERWISE AT LEAST FORTNIGHTLY.
   - 1.4. PRIOR TO, AND IMMEDIATELY AFTER, PERIODS OF "STOP WORK" OR SITE "SHUTDOWN".
2. CLEAN OUT ACCUMULATED SEDIMENT WHEN IT REACHES THE MARKER BOARD/POST, AND RESTORE THE ORIGINAL STORAGE VOLUME. PLACE SEDIMENT IN A DISPOSAL AREA OR, IF APPROPRIATE, MIX WITH DRY SOIL ON THE SITE.
3. DO NOT DISPOSE OF SEDIMENT IN A MANNER THAT WILL CREATE AN EROSION OR POLLUTION HAZARD.
4. CHECK ALL VISIBLE PIPE CONNECTIONS FOR LEAKS, AND REPAIR AS NECESSARY.
5. CHECK FILL MATERIAL IN THE DAM FOR EXCESSIVE SETTLEMENT, SLUMPING OF THE SLOPES OR PIPING BETWEEN THE CONDUIT AND THE EMBANKMENT; MAKE ALL NECESSARY REPAIRS.
6. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE BASIN AND RISER.
7. SUBMERGED INFLOW PIPES MUST BE INSPECTED AND DE-SILTED (AS REQUIRED) AFTER EACH INFLOW EVENT.

REMOVAL OR CONVERSION OF SEDIMENT BASIN

1. WHEN GRADING AND CONSTRUCTION IN THE DRAINAGE AREA ABOVE A TEMPORARY SEDIMENT BASIN IS COMPLETED AND THE DISTURBED AREAS ARE ADEQUATELY STABILISED, THE BASIN MUST BE REMOVED OR OTHERWISE INCORPORATED INTO THE PERMANENT STORMWATER DRAINAGE SYSTEM. IN EITHER CASE, SEDIMENT SHOULD BE CLEARED AND PROPERLY DISPOSED OF AND THE BASIN AREA STABILISED.
2. BEFORE STARTING ANY MAINTENANCE WORK ON THE BASIN OR SPILLWAY, INSTALL ALL NECESSARY SHORT-TERM SEDIMENT CONTROL MEASURES DOWNSTREAM OF THE SEDIMENT BASIN.
3. ALL WATER AND SEDIMENT MUST BE REMOVED FROM THE BASIN PRIOR TO THE DAM'S REMOVAL. DISPOSE OF SEDIMENT AND WATER IN A MANNER THAT WILL NOT CREATE AN EROSION OR POLLUTION HAZARD.
4. BRING THE DISTURBED AREA TO A PROPER GRADE, THEN SMOOTH, COMPACT AND STABILISE OR REVEGETATE AS REQUIRED TO ESTABLISH A STABLE LAND SURFACE.

MATERIAL STOCKPILING:

1. THE CONSTRUCTION CONTRACTOR IS TO ADHERE TO THE FOLLOWING SOIL AND STOCKPILE MANAGEMENT PRACTISES. STOCKPILES OF ERODIBLE MATERIAL THAT HAS THE POTENTIAL TO CAUSE ENVIRONMENTAL HARM IF DISPLACED MUST BE:
2. APPROPRIATELY PROTECTED FROM WIND, RAIN, CONCENTRATED SURFACE FLOW AND EXCESSIVE UP-SLOPE STORMWATER SURFACE FLOWS.
3. LOCATED AT LEAST 2m FROM ANY HAZARDOUS AREA, RETAINED VEGETATION, OR CONCENTRATED DRAINAGE LINE.
4. LOCATED UP-SLOPE OF AN APPROPRIATE SEDIMENT CONTROL SYSTEM.
5. PROVIDED WITH AN APPROPRIATE PROTECTIVE COVER (SYNTHETIC, MULCH OR VEGETATIVE) IF THE MATERIALS ARE LIKELY TO BE STOCKPILED FOR MORE THAN 28 DAYS.
6. PROVIDED WITH AN APPROPRIATE PROTECTIVE COVER (SYNTHETIC, MULCH OR VEGETATIVE) IF THE MATERIALS ARE LIKELY TO BE STOCKPILED FOR MORE THAN 10 DAYS DURING THOSE MONTHS THAT HAVE A HIGH EROSION RISK.
7. PROVIDED WITH AN APPROPRIATE PROTECTIVE COVER (SYNTHETIC, MULCH OR VEGETATIVE) IF THE MATERIALS ARE LIKELY TO BE STOCKPILED FOR MORE THAN 5 DAYS DURING THOSE MONTHS THAT HAVE A HIGH EROSION RISK.
8. A SUITABLE FLOW DIVERSION SYSTEM MUST BE ESTABLISHED IMMEDIATELY UP-SLOPE OF A STOCKPILE OF ERODIBLE MATERIAL THAT HAS THE POTENTIAL TO CAUSE ENVIRONMENTAL HARM IF DISPLACED, IF THE UP-SLOPE CATCHMENT AREA DRAINING TO THE STOCKPILE EXCEEDS 1500m².

STABILISED ENTRY/EXIT NOTES

MATERIALS

- ROCK: WELL GRADED, HARD, ANGULAR, EROSION RESISTANT ROCK, NOMINAL DIAMETER OF 50mm TO 75mm (SMALL DISTURBANCES) OR 100 TO 150mm (LARGE DISTURBANCES). ALL REASONABLE MEASURES MUST BE TAKEN TO OBTAIN ROCK OF NEAR UNIFORM SIZE.
- FOOTPATH STABILISING AGGREGATE: 25 TO 50mm GRAVEL OR AGGREGATE.
- GEOTEXTILE FABRIC: HEAVY-DUTY, NEEDLE-PUNCHED, NON-WOVEN FILTER CLOTH ('BIDIM' A24 OR EQUIVALENT).

INSTALLATION

1. REFER TO APPROVED PLANS FOR LOCATION AND DIMENSIONAL DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS, OR METHOD OF INSTALLATION, CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
2. CLEAR THE LOCATION OF THE VIBRATION GRID, REMOVING STUMPS, ROOTS AND OTHER VEGETATION TO PROVIDE A FIRM FOUNDATION SO THAT THE ROCK IS NOT PRESSED INTO SOFT GROUND. CLEAR SUFFICIENT WIDTH TO ALLOW PASSAGE OF LARGE VEHICLES, BUT CLEAR ONLY THAT NECESSARY FOR THE EXIT. DO NOT CLEAR ADJACENT AREAS UNTIL THE REQUIRED EROSION AND SEDIMENT CONTROL DEVICES ARE IN PLACE
3. IF THE EXPOSED SOIL IS SOFT, PLASTIC OR CLAYEY, PLACE A SUB-BASE OF CRUSHED ROCK OR A LAYER OF HEAVY-DUTY FILTER CLOTH TO PROVIDE A FIRM FOUNDATION.
4. ENSURE THAT THE INSTALLATION OF THE VIBRATION GRID INCLUDES ADEQUATE SEDIMENT STORAGE VOLUME UNDER THE GRID. WHERE NECESSARY, INSTALL SUITABLE PRECAST SEDIMENT COLLECTION CHAMBERS.
5. PLACE A ROCK PAD/RAMP FORMING A MINIMUM 200mm THICK LAYER OF CLEAN, OPEN-VOID ROCK OVER THE ROADWAY BETWEEN THE VIBRATION GRID AND THE SEALED STREET TO PREVENT TYRES FROM PICKING UP MORE SOIL AFTER THEY HAVE BEEN CLEANED.
6. IF THE ASSOCIATED CONSTRUCTION SITE IS UP-SLOPE OF THE ROCK PAD, THUS CAUSING STORMWATER RUNOFF TO FLOW TOWARDS THE ROCK PAD, THEN FORM A MINIMUM 300mm HIGH FLOW CONTROL BERM ACROSS THE ROCK PAD TO DIVERT SUCH RUNOFF TO A SUITABLE SEDIMENT TRAP
7. THE TOTAL LENGTH OF THE VIBRATION GRIP AND ROCK RAMPS SHOULD BE AT LEAST 15m WHERE PRACTICABLE, AND AS WIDE AS THE FULL WIDTH OF THE ENTRY OR EXIT AND AT LEAST 3m. THE ROCK RAMP SHOULD COMMENCE AT THE EDGE OF THE OFF-SITE SEALED ROAD OR PAVEMENT.
8. FLARE THE END OF THE ROCK PAD WHERE IT MEETS THE PAVEMENT SO THAT THE WHEELS OF TURNING VEHICLES DO NOT TRAVEL OVER UNPROTECTED SOIL.

MAINTENANCE

1. INSPECT VIBRATION GRID PRIOR TO FORECAST RAIN, DAILY DURING EXTENDED PERIODS OF RAINFALL, AFTER SIGNIFICANT RUNOFF-PRODUCING RAINFALL, OR OTHERWISE AT FORTNIGHTLY INTERVALS.
2. IF SAND, SOIL, SEDIMENT OR MUD IS TRACKED OR WASHED ONTO THE ADJACENT SEALED ROADWAY, THEN SUCH MATERIAL MUST BE PHYSICALLY REMOVED, FIRST USING A SQUARE-EDGED SHOVEL, AND THEN A STIFF-BRISTLED BROOM, AND THEN BY A MECHANICAL VACUUM UNIT, IF AVAILABLE.
3. IF NECESSARY FOR SAFETY REASONS, THE ROADWAY SHALL ONLY BE WASHED CLEAN AFTER ALL REASONABLE EFFORTS HAVE BEEN TAKEN TO SHOVEL AND SWEEP THE MATERIAL FROM THE ROADWAY.
4. WHEN THE VOIDS BETWEEN THE ROCK BECOMES FILLED WITH MATERIAL AND THE EFFECTIVENESS OF THE ROCK RAMPS ARE REDUCED TO A POINT WHERE SEDIMENT IS BEING TRACKED OFF THE SITE, A NEW 100mm LAYER OF ROCK MUST BE ADDED AND/OR THE ROCK PAD MUST BE EXTENDED.
5. ENSURE ANY ASSOCIATED DRAINAGE CONTROL MEASURES ARE MAINTAINED IN ACCORDANCE WITH THEIR DESIRED OPERATIONAL CONDITION.
6. DISPOSE OF SEDIMENT AND DEBRIS IN A MANNER THAT WILL NOT CREATE AN EROSION OR POLLUTION HAZARD.

CHECK DAM SEDIMENT TRAPS

INSTALLATION

1. REFER TO APPROVED PLANS FOR LOCATION AND INSTALLATION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION OR METHOD OF INSTALLATION CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
2. PRIOR TO PLACEMENT OF THE SEDIMENT TRAP, ENSURE THE DRAINAGE CHANNEL IS DEEP ENOUGH TO PREVENT WATER BEING UNSAFELY DIVERTED OUT OF THE DRAIN ONCE THE CHECK DAMS ARE INSTALLED.
3. LOCATE EACH CHECK DAM SEDIMENT TRAP AS DIRECTED WITHIN THE APPROVED PLANS, OR OTHERWISE AT SUCH A SPACING TO ACHIEVE THE REQUIRED SEDIMENT TRAPPING OUTCOMES.
4. IF THE CHECK DAMS ARE ALSO BEING USED TO CONTROL EROSION WITHIN THE DRAINAGE CHANNEL, THEN LOCATE EACH SUCCESSIVE CHECK DAM SUCH THAT THE CREST OF THE IMMEDIATE DOWNSTREAM DAM IS LEVEL WITH THE CHANNEL INVERT AT THE IMMEDIATE UPSTREAM CHECK DAM.
5. ENSURE SAND BAGS EXTEND UP THE CHANNEL BANKS (WHERE PRACTICAL) TO A LEVEL AT LEAST 100mm ABOVE THE CREST LEVEL OF THE CHECK DAM.

MAINTENANCE

1. INSPECT EACH CHECK DAM AND THE DRAINAGE CHANNEL AT LEAST WEEKLY AND AFTER RUNOFF-PRODUCING RAINFALL.
2. CORRECT ALL DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN ANY OF THE CHECK DAMS, THEN CHECK THE SPACING OF THE DAMS AND WHERE NECESSARY INSTALL INTERMEDIATE CHECK DAMS OR A SUITABLE CHANNEL LINER.
3. CHECK FOR DISPLACEMENT OF THE CHECK DAMS.
4. CHECK FOR SOIL SCOUR AROUND THE ENDS OF EACH CHECK DAM. IF SUCH EROSION IS OCCURRING, CONSIDER EXTENDING THE WIDTH OF THE CHECK DAM TO AVOID SUCH PROBLEMS.
5. IF SEVERE SOIL EROSION OCCURS EITHER UNDER OR AROUND THE CHECK DAMS, THEN SEEK EXPERT ADVICE ON AN ALTERNATIVE TREATMENT MEASURE.
6. DE-SILT SEDIMENT TRAP IF THE SEDIMENT LEVEL EXCEEDS 1/3 THE CREST HEIGHT.
7. DISPOSE OF COLLECTED SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

KERB INLET SEDIMENT TRAPS

FROM ICEA (INTERNATIONAL EROSION SEDIMENT ASSOCIATION) AUSTRALASIA STANDARD DRAWING ESC-03 (DEC 09).

MATERIALS

1. SOCKS: MINIMUM 200mm DIAMETER SYNTHETIC OR BIODEGRADABLE TUBES MANUFACTURED FROM NON-WOVEN OR COMPOSITE FABRIC SUITABLE FOR THE 'FILTRATION' OF COARSE SEDIMENTS.
2. FILL MATERIAL: STRAW, CANE MULCH, COMPOSITE MATERIAL (AS4454), COARSE SAND, OR CLEAN AGGREGATE.
3. STAKES: MINIMUM 25 x 25mm TIMBER.

INSTALLATION

1. REFER TO APPROVED PLANS FOR LOCATION AND INSTALLATION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS OR METHOD OF INSTALLATION CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
2. ENSURE THE SOCKS ARE PLACED INDIVIDUALLY OR COLLECTIVELY (AS A SINGLE SEDIMENT TRAP) SUCH THAT:
   (i) LEAKAGE AROUND OR UNDER THE SOCKS IS MINIMISED.
   (ii) ADJOINING SOCKS ARE TIGHTLY BUTTED OR OVERLAPPED AT LEAST 450mm.
   (iii) THE SURFACE AREA OF POTENTIAL WATER PONDING UP-SLOPE OF EACH SEDIMENT TRAP IS MAXIMISED.
   (iv) TO THE MAXIMUM DEGREE PRACTICAL, ALL SEDIMENT-LADEN WATER WILL PASS THROUGH THE FORMED POND BEFORE FLOWING OVER THE DOWN-SLOPE END OF THE SEDIMENT TRAP.
3. WHEN PLACED ACROSS THE INVERT OF MINOR DRAINS, ENSURE THE SOCKS ARE PLACED SUCH THAT:
   (i) THE CREST OF THE DOWNSTREAM SOCK IS LEVEL WITH THE CHANNEL INVERT AT THE IMMEDIATE UPSTREAM SOCK (IF ANY);
   (ii) EACH SOCK EXTENDS UP THE CHANNEL BANKS SUCK THAT THE CREST OF THE SOCK AT ITS LOWEST POINT IS LOWER THAN GROUND LEVEL AT EITHER END OF THE SOCK.
4. IF STAKES ARE REQUIRED TO ANCHOR THE SOCKS, THEIR SPACING DOES NOT EXCEED 1.2m OR SIX TIMES THE SOCK DIAMETER (WHICHEVER IS THE LESSER). A MAXIMUM STAKE SPACING OF 0.3m APPLIES WHEN USED TO FORM CHECK DAMS.

MAINTENANCE

1. INSPECT ALL FILTER SOCKS PRIOR TO FORECAST RAIN, DAILY DURING EXTENDED PERIODS OF RAINFALL, AFTER SIGNIFICANT RUNOFF PRODUCING STORMS OR OTHERWISE AT WEEKLY INTERVALS.
2. REPAIR OR REPLACE DAMAGED SOCKS.
3. THE BULK OF THE SEDIMENT COLLECTED BEHIND THE FILTER SOCKS SHOULD BE REMOVED BY SHOVEL AFTER EACH STORM EVENT.
4. REMOVE COLLECTED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

REMOVAL

1. ALL SAND, SOIL, SEDIMENT OR MUD MUST BE PHYSICALLY REMOVED FROM SEALED SURFACES, FIRST USING A SQUARE-EDGED SHOVEL, AND THEN A STIFF-BRISTLED BROOM, AND THEN BY A MECHANICAL VACUUM UNIT, IF AVAILABLE.
2. IF NECESSARY FOR SAFETY REASONS, THE SEALED SURFACE SHALL ONLY BE WASHED CLEAN AFTER ALL REASONABLE EFFORTS HAVE BEEN TAKEN TO SHOVEL AND SWEEP THE MATERIAL FROM THE SURFACE.
3. DISPOSE OF COLLECTED SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.
4. ALL SYNTHETIC (PLASTIC) MESH OR OTHER NON READILY BIODEGRADABLE MATERIAL MUST BE REMOVED FROM THE SITE ONCE THE SLOPE OR DRAIN IS STABILISED, OR THE SOCKS HAVE DETERIORATED TO A POINT WHERE THEY ARE NO LONGER PROVIDING THEIR INTENDED DRAINAGE OR SEDIMENT CONTROL FUNCTION.

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
EROSION AND SEDIMENT CONTROL NOTES

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2191		A

EXISTING DAMS

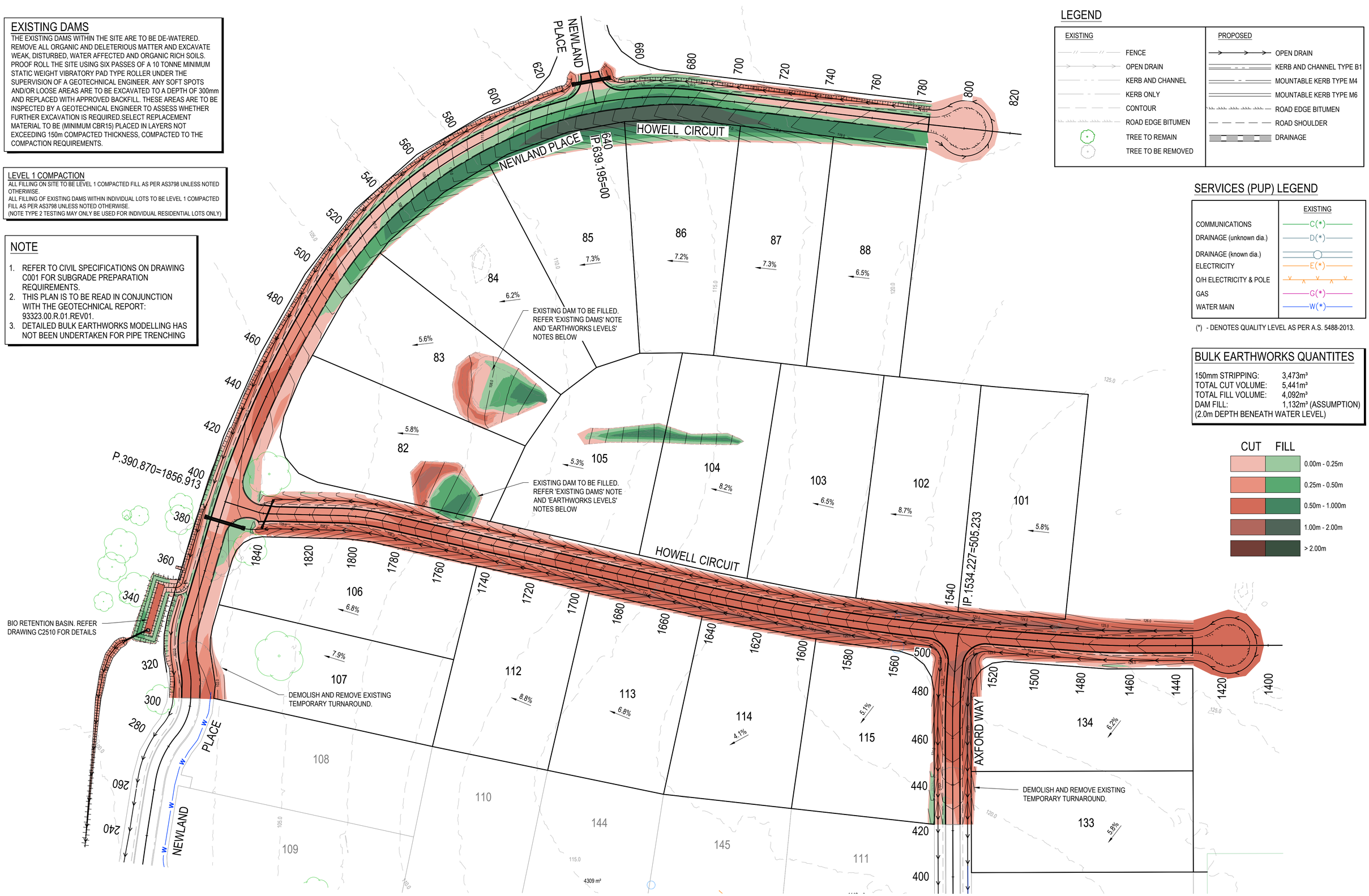
THE EXISTING DAMS WITHIN THE SITE ARE TO BE DE-WATERED. REMOVE ALL ORGANIC AND DELETERIOUS MATTER AND EXCAVATE WEAK, DISTURBED, WATER AFFECTED AND ORGANIC RICH SOILS. PROOF ROLL THE SITE USING SIX PASSES OF A 10 TONNE MINIMUM STATIC WEIGHT VIBRATORY PAD TYPE ROLLER UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER. ANY SOFT SPOTS AND/OR LOOSE AREAS ARE TO BE EXCAVATED TO A DEPTH OF 300mm AND REPLACED WITH APPROVED BACKFILL. THESE AREAS ARE TO BE INSPECTED BY A GEOTECHNICAL ENGINEER TO ASSESS WHETHER FURTHER EXCAVATION IS REQUIRED.SELECT REPLACEMENT MATERIAL TO BE (MINIMUM CBR15) PLACED IN LAYERS NOT EXCEEDING 150m COMPACTED THICKNESS, COMPACTED TO THE COMPACTION REQUIREMENTS.

LEVEL 1 COMPACTION

ALL FILLING ON SITE TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.
ALL FILLING OF EXISTING DAMS WITHIN INDIVIDUAL LOTS TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.
(NOTE TYPE 2 TESTING MAY ONLY BE USED FOR INDIVIDUAL RESIDENTIAL LOTS ONLY)

NOTE

1. REFER TO CIVIL SPECIFICATIONS ON DRAWING C001 FOR SUBGRADE PREPARATION REQUIREMENTS.
2. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE GEOTECHNICAL REPORT: 93323.00.R.01.REV01.
3. DETAILED BULK EARTHWORKS MODELLING HAS NOT BEEN UNDERTAKEN FOR PIPE TRENCHING



LEGEND

EXISTING	PROPOSED
FENCE	OPEN DRAIN
OPEN DRAIN	KERB AND CHANNEL TYPE B1
KERB AND CHANNEL	MOUNTABLE KERB TYPE M4
KERB ONLY	MOUNTABLE KERB TYPE M6
CONTOUR	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	

SERVICES (PUP) LEGEND

	EXISTING
COMMUNICATIONS	C(*)
DRAINAGE (unknown dia.)	D(*)
DRAINAGE (known dia.)	
ELECTRICITY	E(*)
O/H ELECTRICITY & POLE	
GAS	G(*)
WATER MAIN	W(*)

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

BULK EARTHWORKS QUANTITES

150mm STRIPPING:	3,473m³
TOTAL CUT VOLUME:	5,441m³
TOTAL FILL VOLUME:	4,092m³
DAM FILL:	1,132m³ (ASSUMPTION) (2.0m DEPTH BENEATH WATER LEVEL)

CUT FILL

- 0.00m - 0.25m
- 0.25m - 0.50m
- 0.50m - 1.000m
- 1.00m - 2.00m
- > 2.00m

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

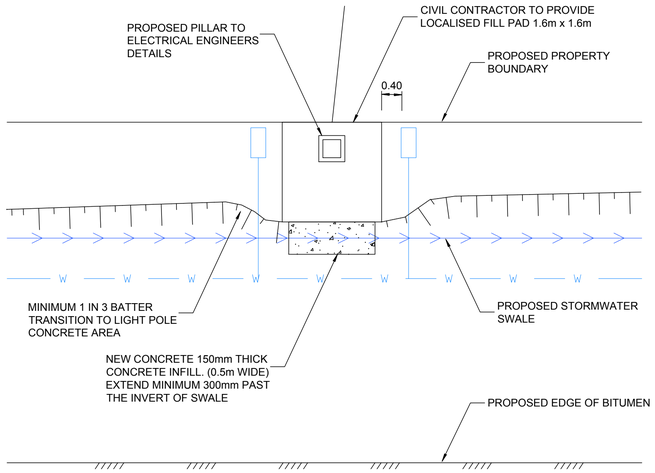
0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
BULK EARTHWORKS PLAN

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.		DRAWING No.	REVISION
BR222025		C2200	A

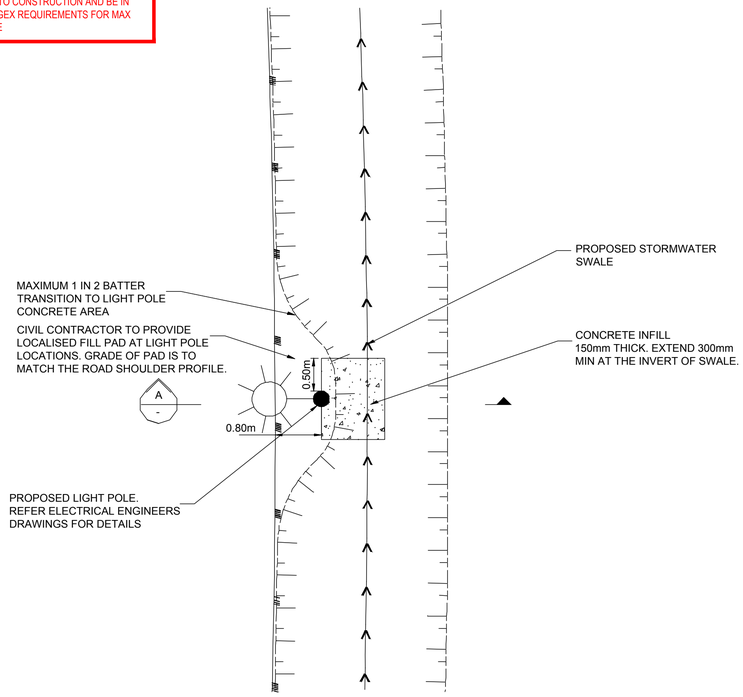


TYPICAL ELECTRICAL PILLAR PROTECTION DETAIL

SCALE 1:50

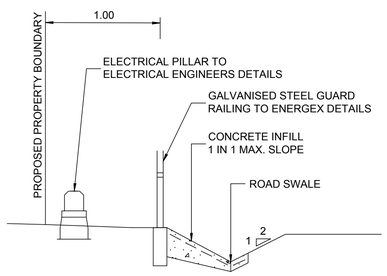
NOTE

PMT SITE EARTHWORKS TO BE CONFIRMED WITH THE SUPERINTENDENT PRIOR TO CONSTRUCTION AND BE IN CONSIDERATION OF ENERGEX REQUIREMENTS FOR MAX CUT/FILL ACROSS PMT SITE



TYPICAL LIGHT POLE PROTECTION DETAIL

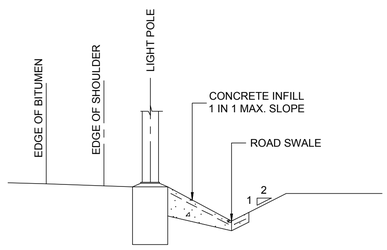
SCALE 1:50



B
-

TYPICAL ELECTRICAL PILLAR SECTION

SCALE 1:50



TYPICAL LIGHT POLE SECTION A

SCALE 1:50

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT
0 1 2 3 4 5m
SCALE 1:50

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
BULK EARTHWORKS DETAILS

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.		DRAWING No.	REVISION
BR222025		C2290	A

SURFACE TREATMENT LEGEND:

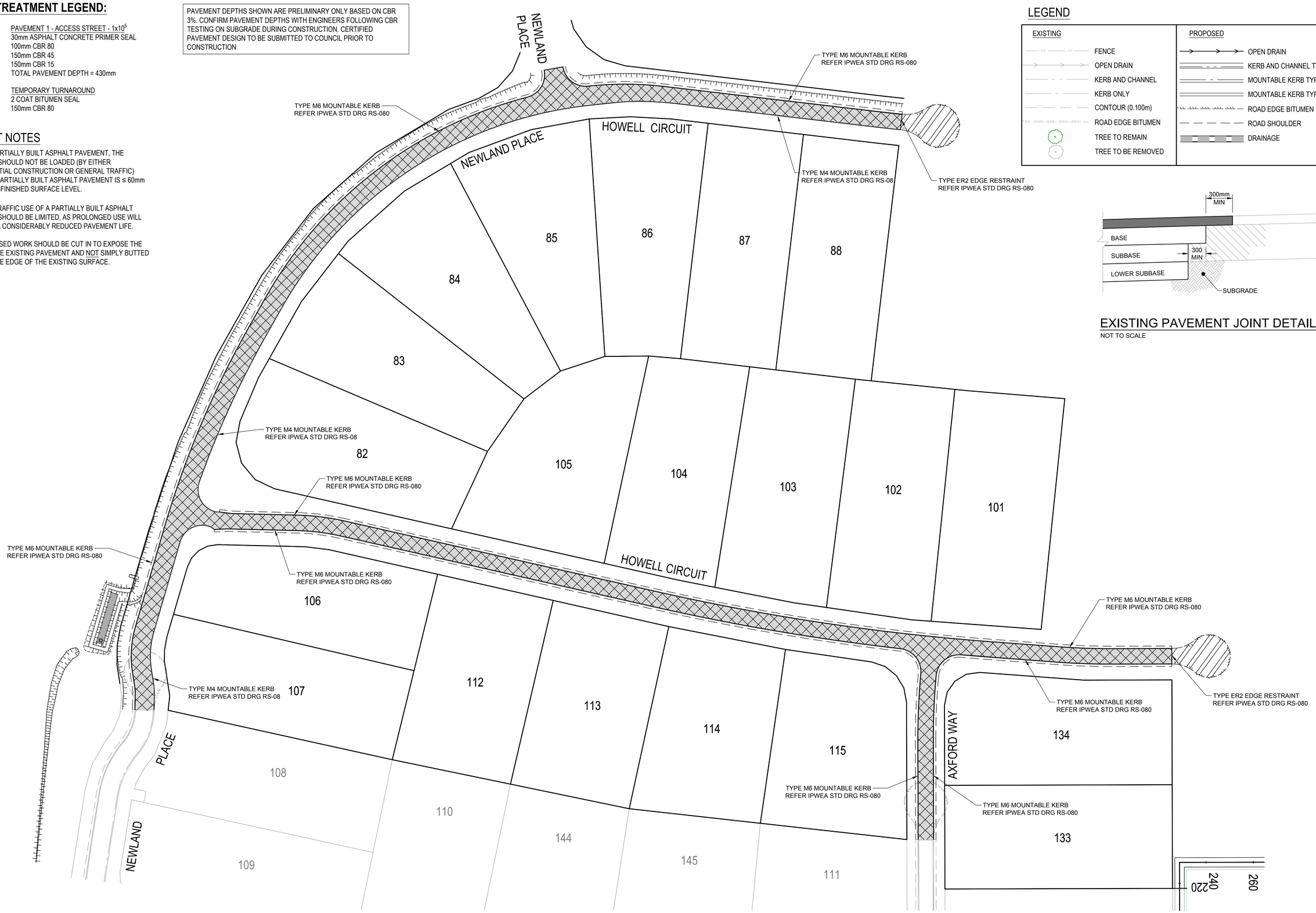
PAVEMENT 1 - ACCESS STREET - $1x10^5$
30mm ASPHALT CONCRETE PRIMER SEAL
100mm CBR 80
150mm CBR 45
150mm CBR 15
TOTAL PAVEMENT DEPTH = 430mm

TEMPORARY TURNAROUND
2 COAT BITUMEN SEAL
150mm CBR 80

PAVEMENT NOTES

1. FOR ANY PARTIALLY BUILT ASPHALT PAVEMENT, THE PAVEMENT SHOULD NOT BE LOADED (BY EITHER NON-ESSENTIAL CONSTRUCTION OR GENERAL TRAFFIC) UNTIL THE PARTIALLY BUILT ASPHALT PAVEMENT IS ≤ 60mm BELOW THE FINISHED SURFACE LEVEL.
2. GENERAL TRAFFIC USE OF A PARTIALLY BUILT ASPHALT PAVEMENT SHOULD BE LIMITED, AS PROLONGED USE WILL RESULT IN A CONSIDERABLY REDUCED PAVEMENT LIFE.
3. THE PROPOSED WORK SHOULD BE CUT IN TO EXPOSE THE EDGE OF THE EXISTING PAVEMENT AND NOT SIMPLY BUTTED AGAINST THE EDGE OF THE EXISTING SURFACE.

PAVEMENT DEPTHS SHOWN ARE PRELIMINARY ONLY BASED ON CBR 3%. CONFIRM PAVEMENT DEPTHS WITH ENGINEERS FOLLOWING CBR TESTING ON SUBGRADE DURING CONSTRUCTION. CERTIFIED PAVEMENT DESIGN TO BE SUBMITTED TO COUNCIL PRIOR TO CONSTRUCTION



LEGEND

EXISTING	PROPOSED
FENCE	OPEN DRAIN
OPEN DRAIN	KERB AND CHANNEL TYPE B1
KERB AND CHANNEL	MOUNTABLE KERB TYPE M4
KERB ONLY	MOUNTABLE KERB TYPE M6
CONTOUR (0.100m)	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	

EXISTING PAVEMENT JOINT DETAIL

NOT TO SCALE

REVISIONS:			
A	ISSUED FOR CONSTRUCTION	MP	00/00/00
No.	REVISION DESCRIPTION	DRAWN	DATE

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

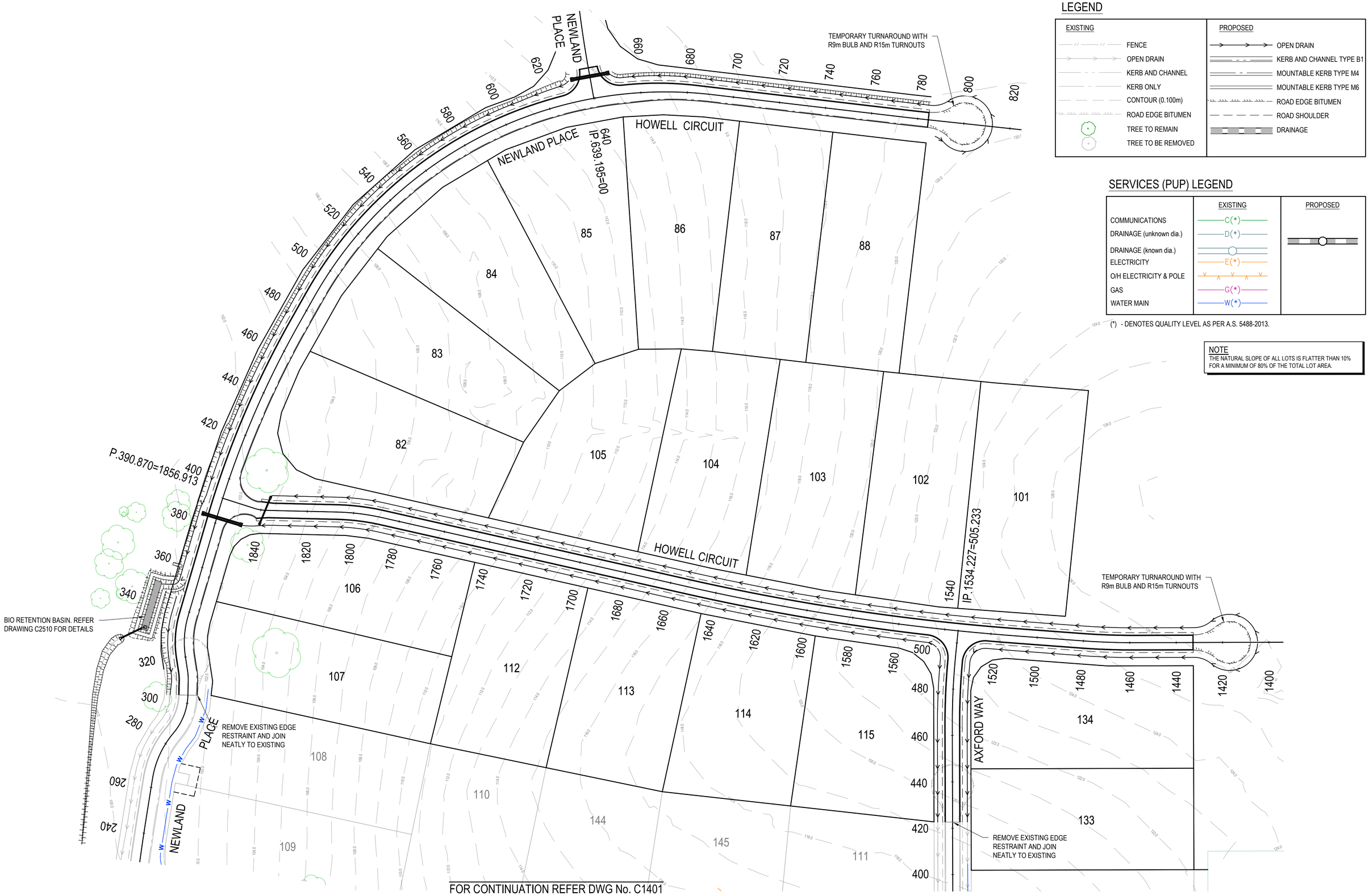
0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
PAVEMENT PLAN

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2300		A



LEGEND

EXISTING	PROPOSED
FENCE	OPEN DRAIN
OPEN DRAIN	KERB AND CHANNEL TYPE B1
KERB AND CHANNEL	MOUNTABLE KERB TYPE M4
KERB ONLY	MOUNTABLE KERB TYPE M6
CONTOUR (0.100m)	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	

SERVICES (PUP) LEGEND

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

NOTE
THE NATURAL SLOPE OF ALL LOTS IS FLATTER THAN 10% FOR A MINIMUM OF 80% OF THE TOTAL LOT AREA.

REVISIONS:			
A	ISSUED FOR CONSTRUCTION	MP	00/00/00
No.	REVISION DESCRIPTION	DRAWN	DATE

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
ROADWORKS PLAN

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2400		A

PAVEMENT MARKING LEGEND

LLU	SEPARATION LINE UNBROKEN (150mm)
GWL	GIVE WAY LINE (300mm)

SIGNS LEGEND

① NEW SIGN

PAVEMENT MARKING NOTES

1. ALL LONGITUDINAL LINES AS PER MUTCD SECTION 5.2.
2. ALL TRANSVERSE LINES AS PER MUTCD SECTION 5.4.
3. DIAGONAL AND CHEVRONS AS PER MUTCD SECTION 5.5.
4. ALL LINEWORK TO HAVE RAISED REFLECTIVE MARKERS INSTALLED AS PER MUTCD SECTION 5.6.
5. PAINT FULL WIDTH EDGE LINE (EL) 200mm FROM EDGE OF BITUMEN AS SHOWN.
6. INSTALL GUIDE POSTS TO EDGE OF BITUMEN ALONG TABLE. DRAINS IN ACCORDANCE WITH TMR STD DRG SD1356.
7. INSTALL GUIDE POSTS TO BOTH SIDES OF ALL DRIVEWAYS.
8. LINEMARKING SHALL BE DULUX ROADMASTER WATER BASED PAVEMENT MARKING OR APPROVED EQUIVALENT.

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARKLAKE ADARE

N

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

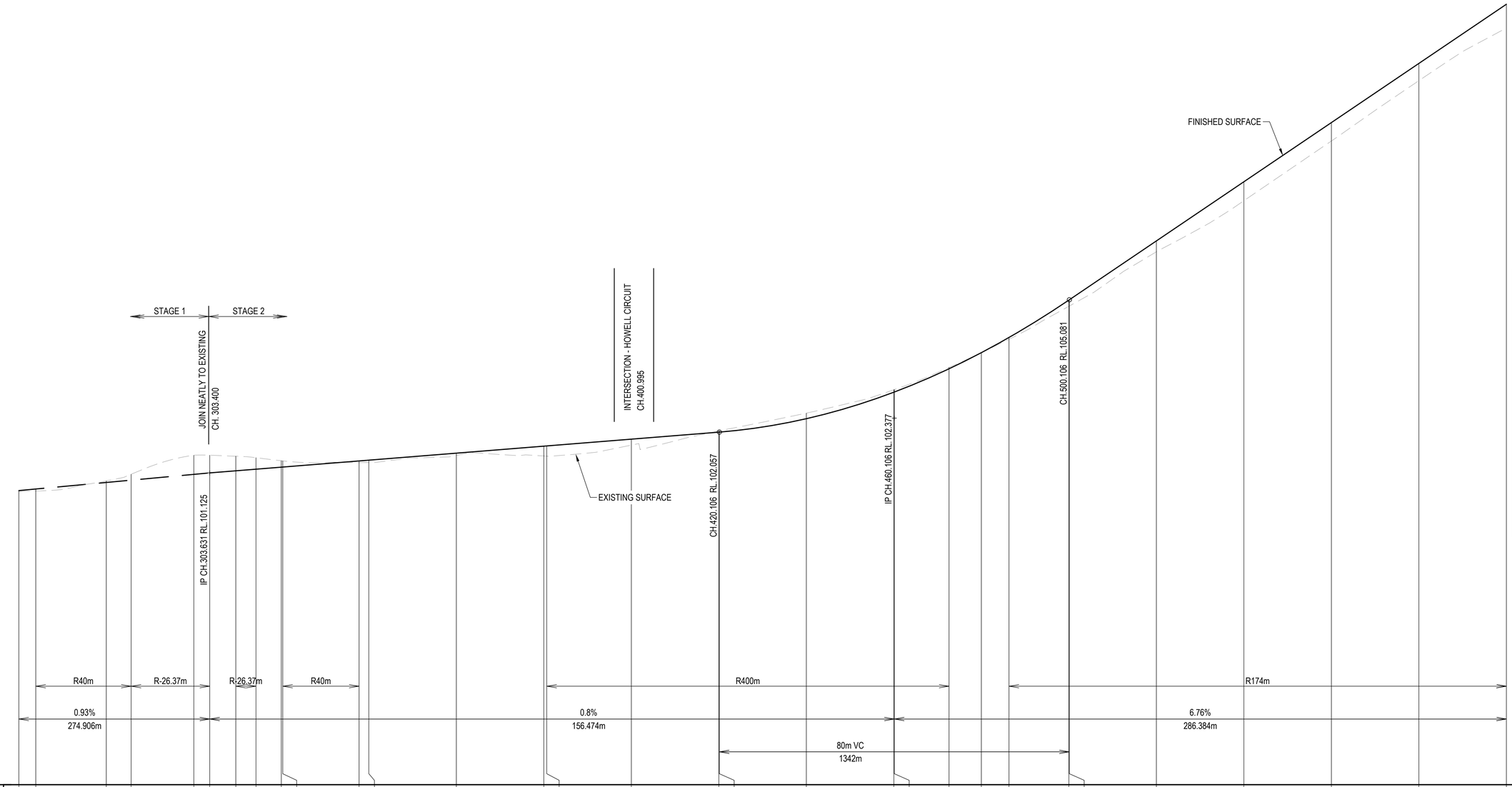
0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
SIGNS AND PAVEMENT MARKING PLAN

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2430		A



Horiz Curve Data			R40m		R-26.37m		R-26.37m		R40m									R400m														R174m		
Vertical Geometry Grade (%)			0.93%												0.8%																6.76%		
Vertical Grade Length (m)			274.906m												156.474m																286.384m		
Vertical Curve Length (m)																			80m VC														
Vertical Curve Radius (m)																			1342m														
DATUM R.L.94.000																																	
NATURAL SURFACE LEVELS	100.699	100.712	100.941	101.094	101.529	101.530	101.506	101.473	101.403	101.400	101.361	101.361	101.525	101.512	101.508	101.760	102.083	102.085	102.491	103.024	103.028	103.536	103.869	104.180	104.933	104.939	106.178	107.345	108.710	110.089	111.291		
CUT / FILL DEPTH	0.022	0.045	-0.035	-0.135	-0.437	-0.405	-0.333	-0.263	-0.147	-0.141	0.037	0.055	0.051	0.224	0.234	0.136	-0.027	-0.028	-0.128	-0.055	-0.055	-0.032	0.004	0.040	0.142	0.143	0.249	0.434	0.421	0.394	0.544		
DESIGN SURFACE LEVELS	100.721	100.757	100.906	100.959	101.092	101.125	101.173	101.210	101.256	101.259	101.398	101.416	101.576	101.736	101.742	101.896	102.056	102.057	102.364	102.969	102.973	103.504	103.873	104.220	105.074	105.081	106.427	107.779	109.131	110.483	111.835		
CHAINAGE	260.000	263.877	280.000	285.676	300.000	303.631	309.590	314.209	320.000	320.317	337.769	340.000	360.000	380.000	380.669	400.000	420.000	420.106	440.000	460.000	460.106	472.609	480.000	486.314	500.000	500.106	520.000	540.000	560.000	580.000	600.000		

LONGITUDINAL SECTION - NEWLAND PLACE / HOWELL CIRCUIT

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:50

0 10 20 30 40 50m
SCALE 1:500 (HORIZONTAL)

0 1 2 3 4 5m
SCALE 1:50 (VERTICAL)

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

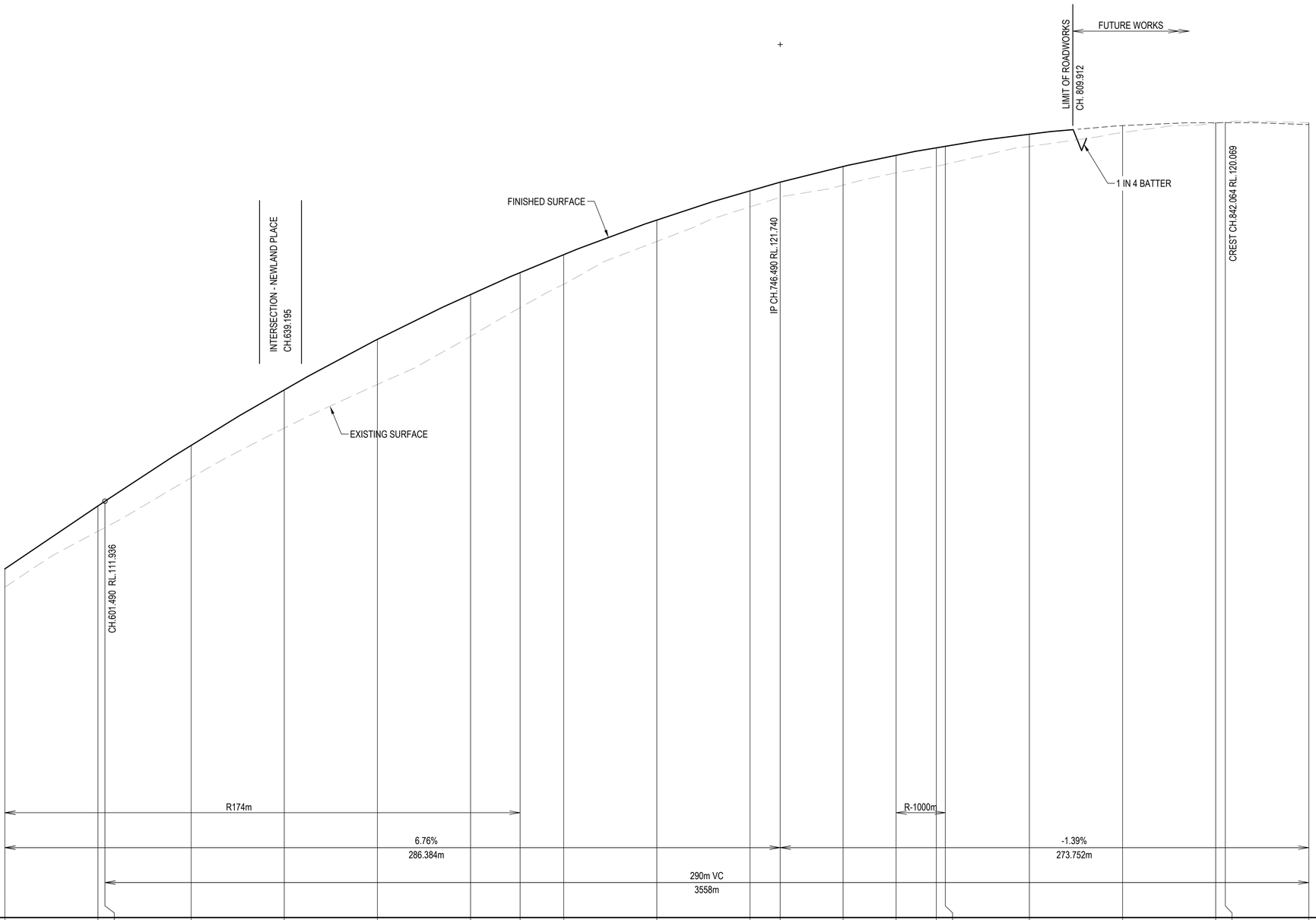
ARCHITECT

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
ROAD LONGITUDINAL SECTION - NEWLAND PLACE / HOWELL CIRCUIT - SHEET 1 OF 2

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2450		A



Horiz Curve Data — R174m — R-1000m

Vertical Geometry Grade (%) / Vertical Grade Length (m) — 6.76% 286.384m — -1.39% 273.752m

Vertical Curve Length (m) / Vertical Curve Radius (m) — 290m VC 3558m

DATUM R.L.103.000

NATURAL SURFACE LEVELS	110.089	111.291	111.370	112.439	113.505	114.442	115.474	116.091	116.591	117.513	118.254	118.460	118.721	118.985	119.127	119.167	119.551	119.850	120.050	120.073	120.060
CUT / FILL DEPTH	0.394	0.544	0.566	0.701	0.826	0.969	0.904	0.756	0.642	0.462	0.351	0.326	0.401	0.382	0.401	0.394	0.269	0.150	0.018	-0.004	-0.037
DESIGN SURFACE LEVELS	110.483	111.835	111.936	113.140	114.332	115.411	116.378	116.847	117.233	117.975	118.605	118.785	119.123	119.367	119.528	119.561	119.820	120.001	120.068	120.069	120.024
CHAINAGE	580.000	600.000	601.490	620.000	640.000	660.000	680.000	690.638	700.000	720.000	740.000	746.490	760.000	771.374	780.000	781.944	800.000	820.000	840.000	842.064	860.000

LONGITUDINAL SECTION - NEWLAND PLACE / HOWELL CIRCUIT

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:50

0 10 20 30 40 50m
SCALE 1:500 (HORIZONTAL)

0 1 2 3 4 5m
SCALE 1:50 (VERTICAL)

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

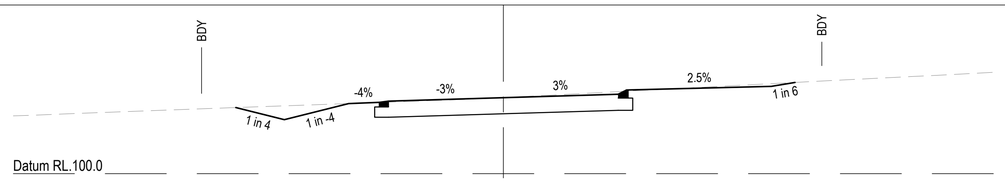
ARCHITECT

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

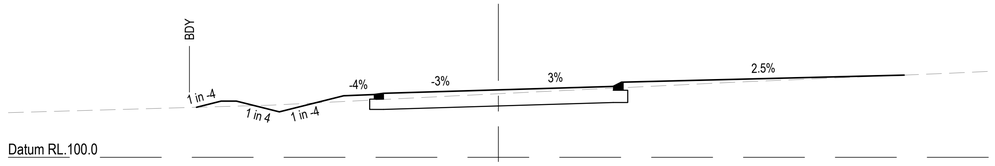
DRAWING TITLE
ROAD LONGITUDINAL SECTION - NEWLAND PLACE / HOWELL CIRCUIT - SHEET 2 OF 2

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2451		A

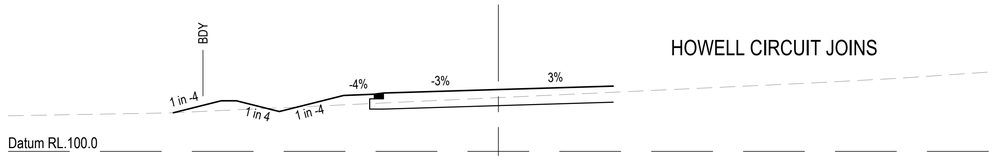


CH. 440.000

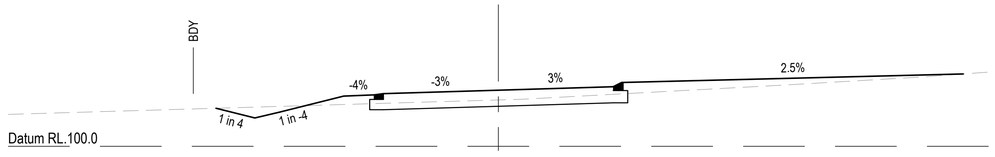


CH. 420.000

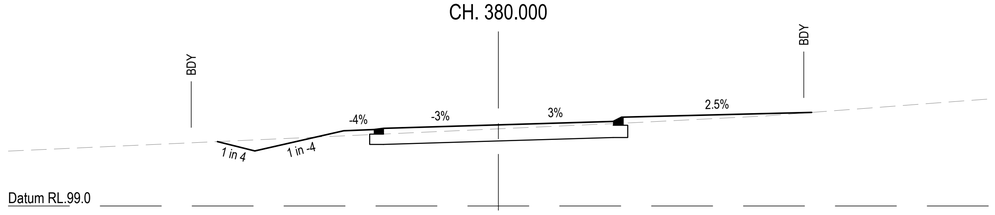
HOWELL CIRCUIT JOINS



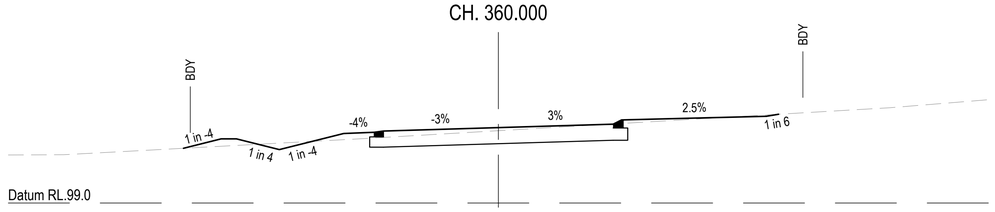
CH. 400.000



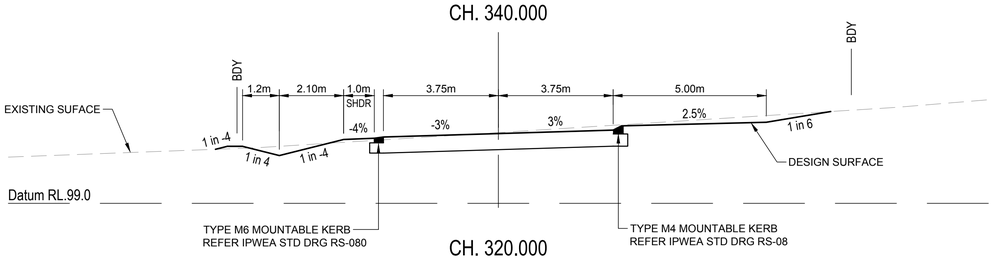
CH. 380.000



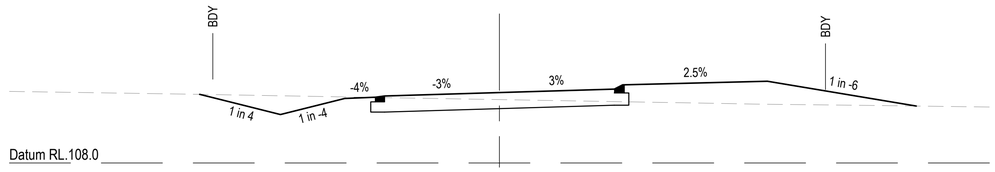
CH. 360.000



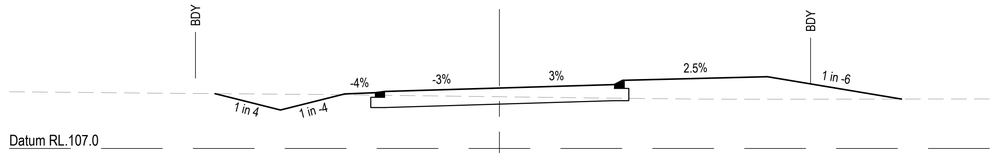
CH. 340.000



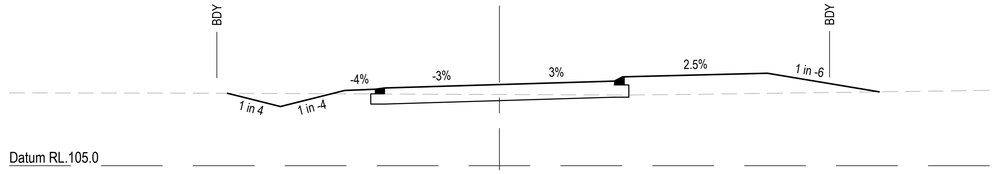
CH. 320.000



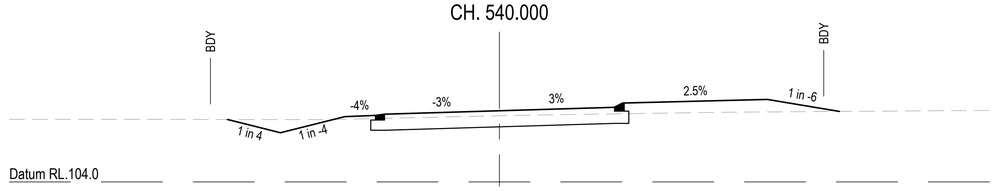
CH. 580.000



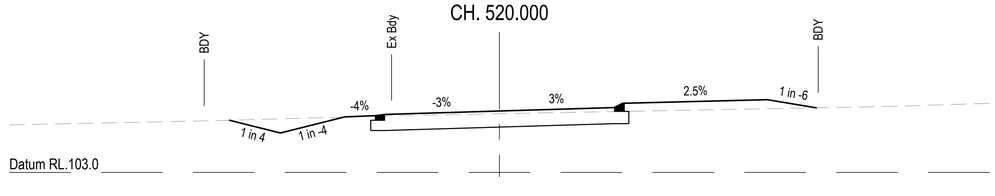
CH. 560.000



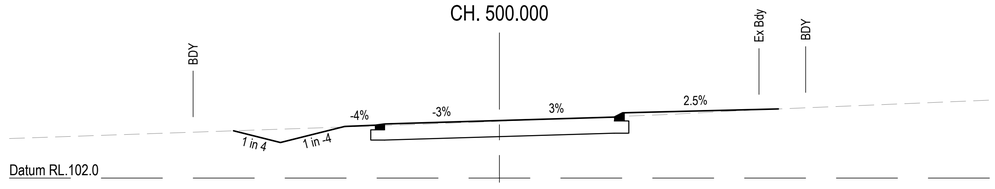
CH. 540.000



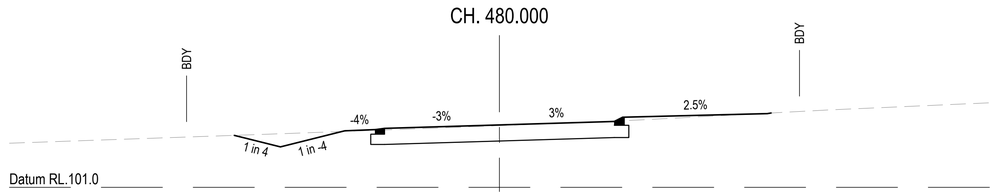
CH. 520.000



CH. 500.000



CH. 480.000



CH. 460.000

REVISIONS:			
A	ISSUED FOR CONSTRUCTION	MP	00/00/00
No.	REVISION DESCRIPTION	DRAWN	DATE

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

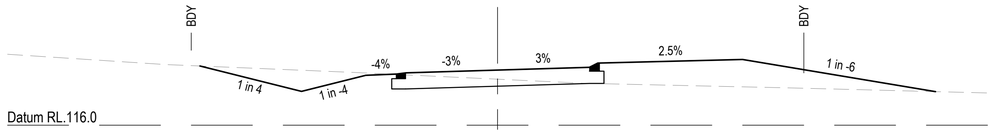
0 1 2 3 4 5m 10m
SCALE 1:100

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

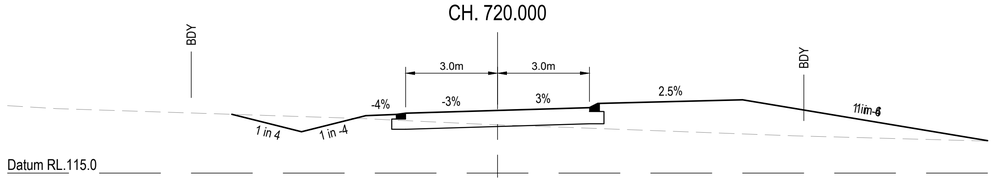
DRAWING TITLE
ROAD CROSS SECTIONS - NEWLAND PLACE / HOWELL CIRCUIT - SHEET 1

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

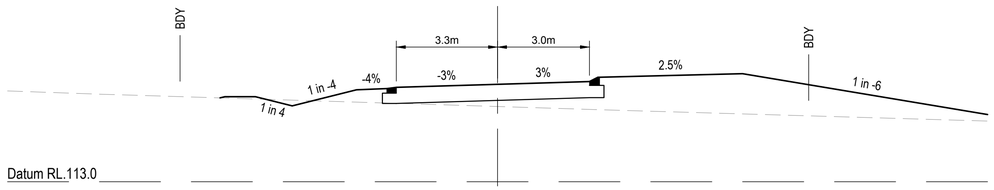
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2452		A



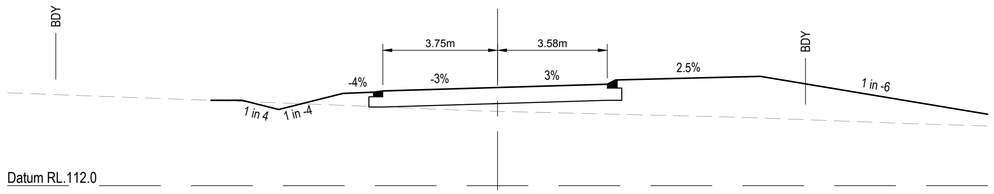
CH. 720.000



CH. 700.000

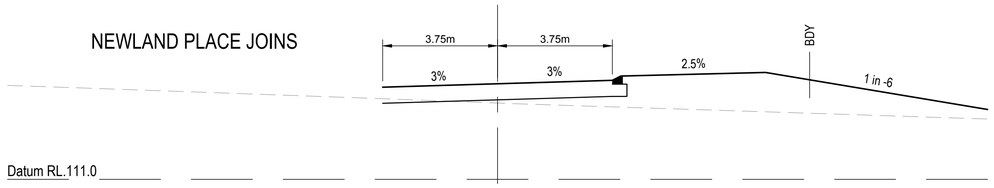


CH. 680.000

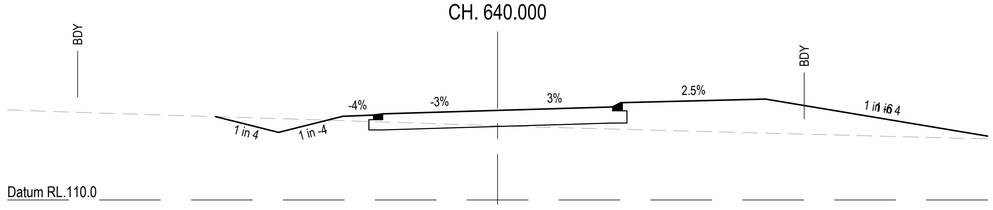


CH. 660.000

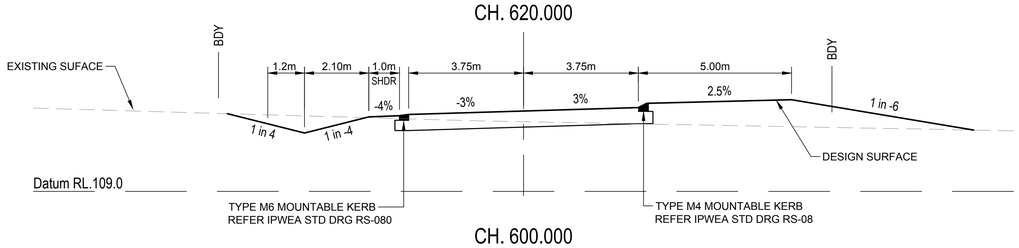
NEWLAND PLACE JOINS



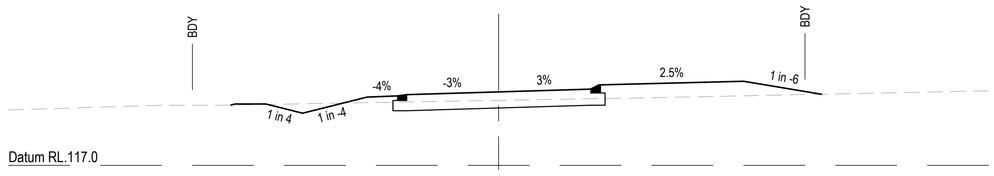
CH. 640.000



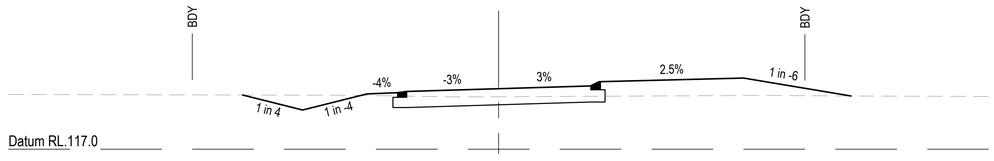
CH. 620.000



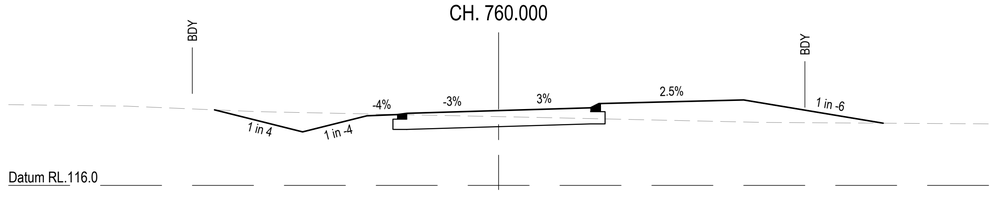
CH. 600.000



CH. 780.000



CH. 760.000



CH. 740.000

REVISIONS:			
A	ISSUED FOR CONSTRUCTION	MP	00/00/00
No.	REVISION DESCRIPTION	DRAWN	DATE

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

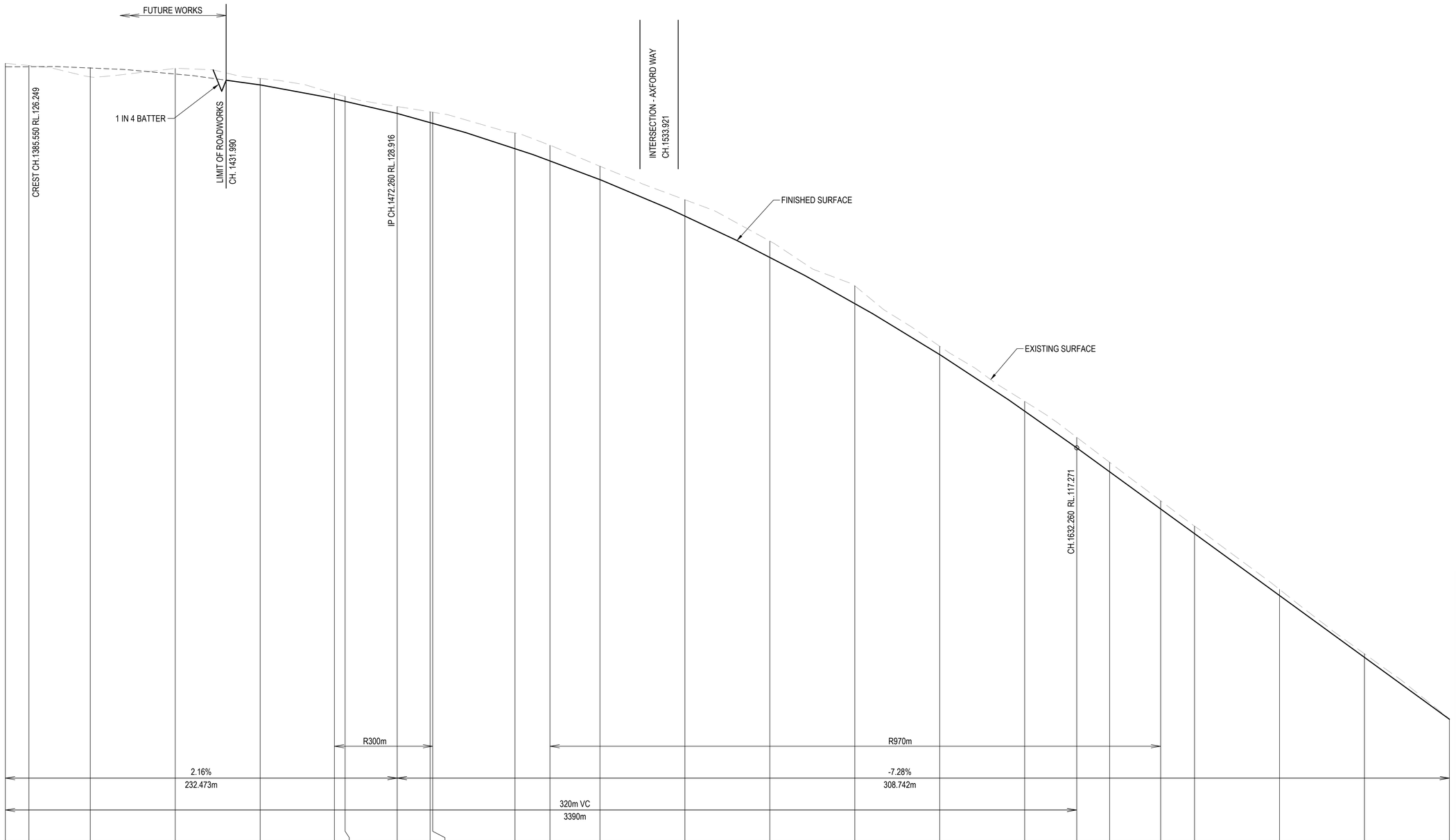
0 1 2 3 4 5m 10m
SCALE 1:100

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
ROAD CROSS SECTIONS - NEWLAND PLACE / HOWELL CIRCUIT - SHEET 2

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE		
CK	MP			
DRAFTSPERSON	SCALE	DATE	SHEET SIZE	
MP	AS SHOWN	NOV 2022	A1	
JOB No.	DRAWING No.	REVISION		
BR222025	C2453	A		



Horiz Curve Data							R300m									R970m									
Vertical Geometry Grade (%)				2.16%												-7.28%									
Vertical Grade Length (m)				232.473m												308.742m									
Vertical Curve Length (m)													320m VC												
Vertical Curve Radius (m)													3390m												
DATUM R.L.108.000																									
NATURAL SURFACE LEVELS	126.320	126.266	126.001	126.199	125.962	125.606	125.539	125.302	125.178	125.168	124.680	124.391	123.897	123.110	122.136	121.084	119.661	118.365	117.520	116.930	116.024	115.428	113.941	112.425	110.896
CUT / FILL DEPTH	-0.075	-0.017	0.217	-0.126	-0.151	-0.121	-0.107	-0.162	-0.245	-0.252	-0.363	-0.362	-0.314	-0.379	-0.376	-0.413	-0.196	-0.224	-0.248	-0.222	-0.191	-0.176	-0.144	-0.084	-0.011
DESIGN SURFACE LEVELS	126.244	126.249	126.218	126.074	125.812	125.486	125.431	125.140	124.933	124.916	124.317	124.029	123.583	122.730	121.760	120.672	119.466	118.141	117.271	116.708	115.833	115.252	113.797	112.341	110.886
CHAINAGE	1380.000	1385.550	1400.000	1420.000	1440.000	1457.484	1460.000	1472.260	1480.000	1480.616	1500.000	1508.227	1520.000	1540.000	1560.000	1580.000	1600.000	1620.000	1632.260	1640.000	1652.019	1660.000	1680.000	1700.000	1720.000

LONGITUDINAL SECTION - HOWELL CIRCUIT

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:50

0 10 20 30 40 50m
SCALE 1:500 (HORIZONTAL)

0 1 2 3 4 5m
SCALE 1:50 (VERTICAL)

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

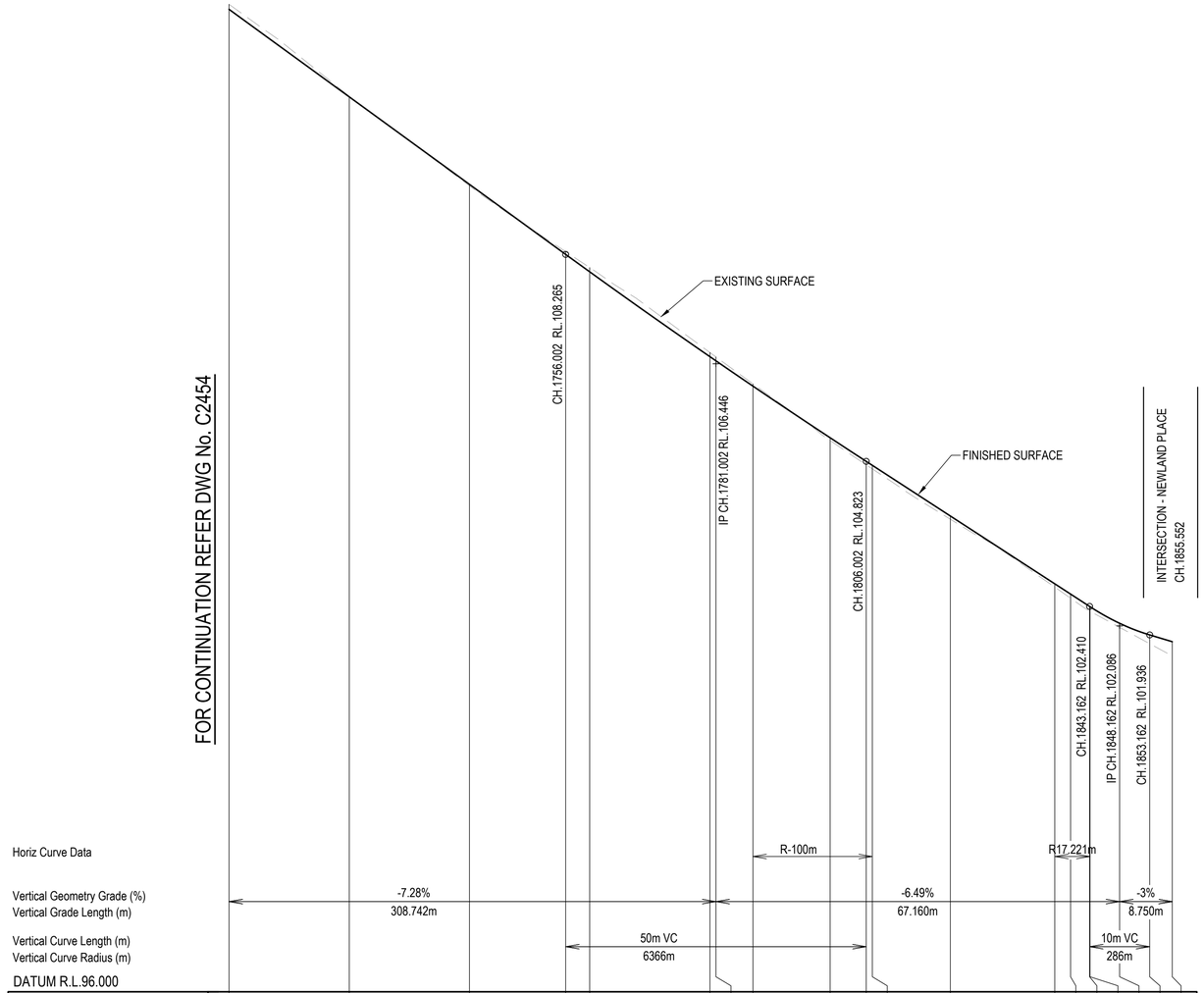
ARCHITECT

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
ROAD LONGITUDINAL SECTION
ROAD 2 - SHEET 1

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2454		A



NATURAL SURFACE LEVELS	112.425	110.896	109.404	108.311	108.046	106.633	106.560	106.112	105.170	104.764	104.697	103.860	102.731	102.547	102.333	102.329	102.062	101.790	101.586
CUT / FILL DEPTH	-0.084	-0.011	0.026	-0.045	-0.070	-0.069	-0.065	-0.038	0.045	0.058	0.060	0.054	0.055	0.069	0.077	0.076	0.068	0.146	0.237
DESIGN SURFACE LEVELS	112.341	110.886	109.430	108.265	107.976	106.564	106.495	106.074	105.215	104.823	104.756	103.914	102.786	102.615	102.410	102.405	102.129	101.936	101.823
CHAINAGE	1700.000	1720.000	1740.000	1756.002	1760.000	1780.000	1781.002	1787.157	1800.000	1806.002	1807.024	1820.000	1837.377	1840.000	1843.162	1843.237	1848.162	1853.162	1856.912

LONGITUDINAL SECTION - HOWELL CIRCUIT

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:50

0 10 20 30 40 50m
SCALE 1:500 (HORIZONTAL)

0 1 2 3 4 5m
SCALE 1:50 (VERTICAL)

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

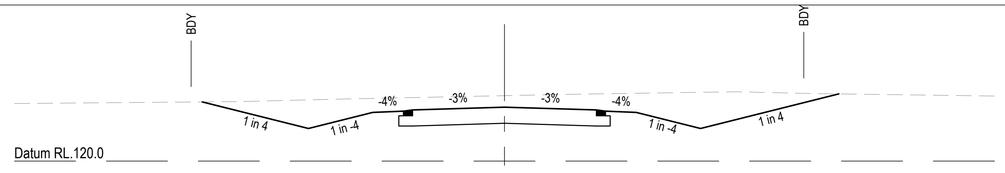
ARCHITECT

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
ROAD LONGITUDINAL SECTION
ROAD 2 - SHEET 2

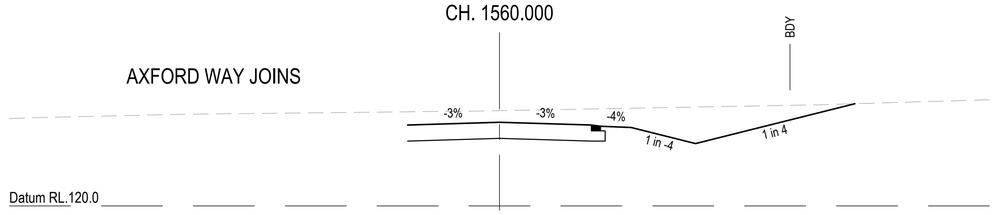
DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2455		A

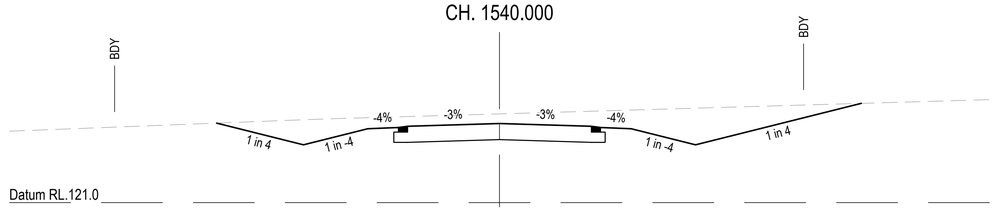


CH. 1560.000

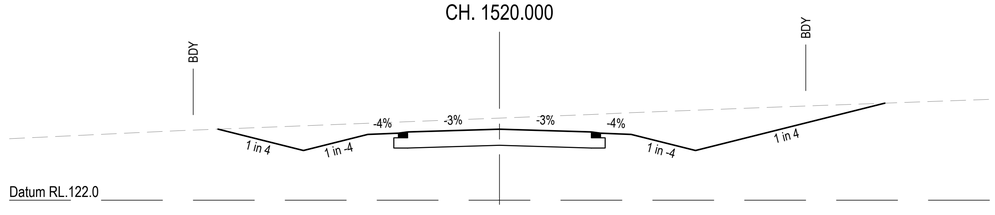
AXFORD WAY JOINS



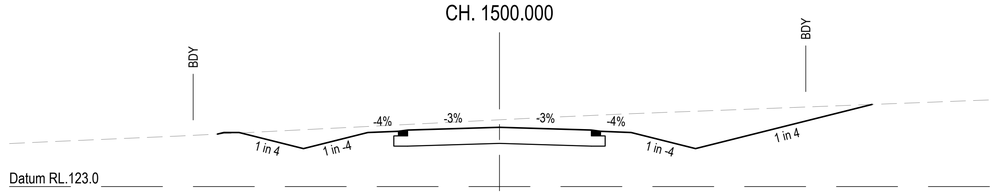
CH. 1540.000



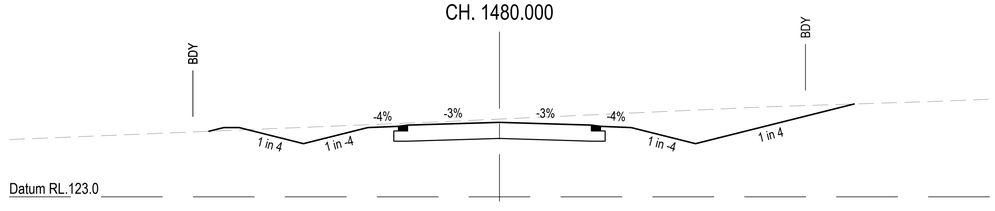
CH. 1520.000



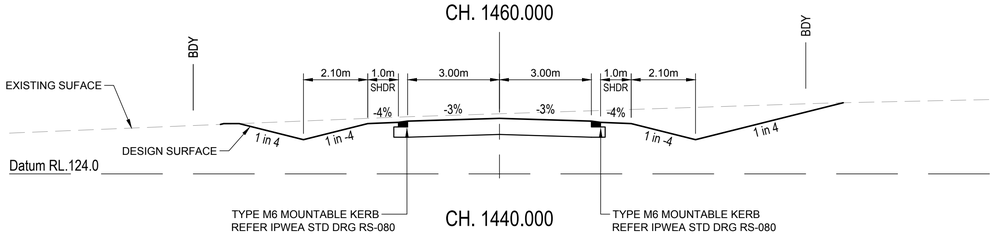
CH. 1500.000



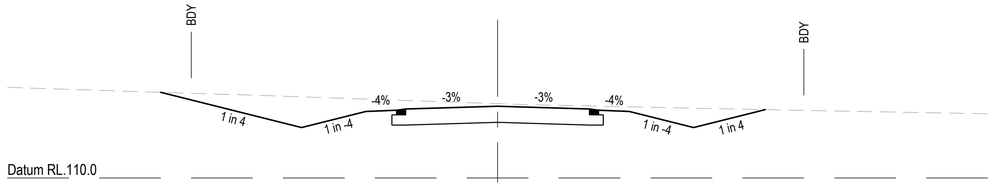
CH. 1480.000



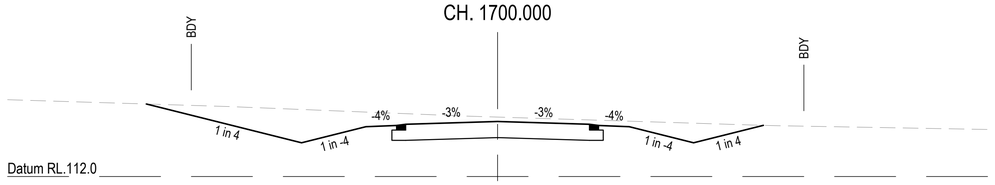
CH. 1460.000



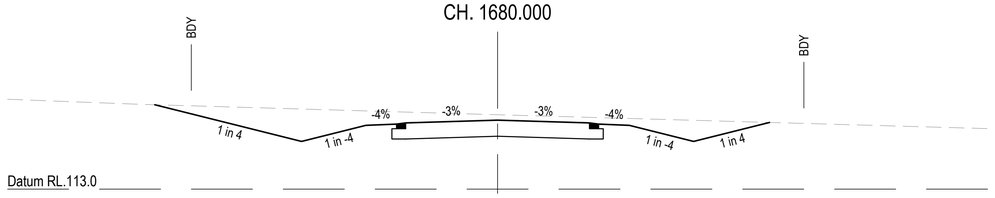
CH. 1440.000



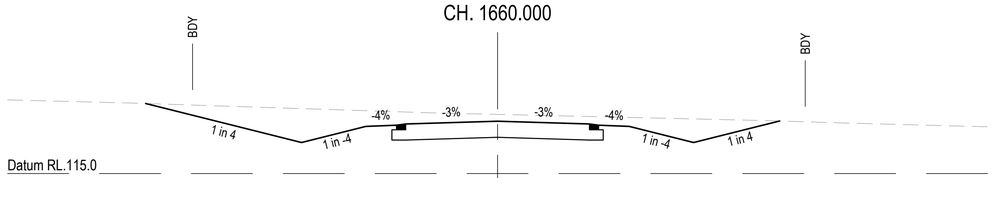
CH. 1700.000



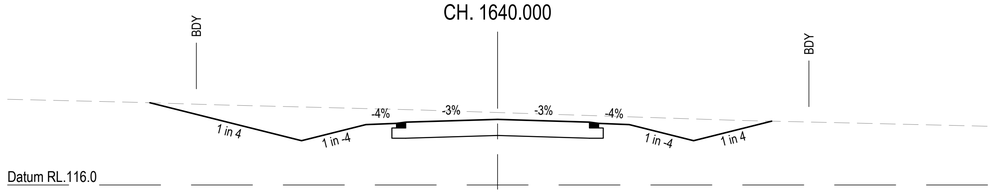
CH. 1680.000



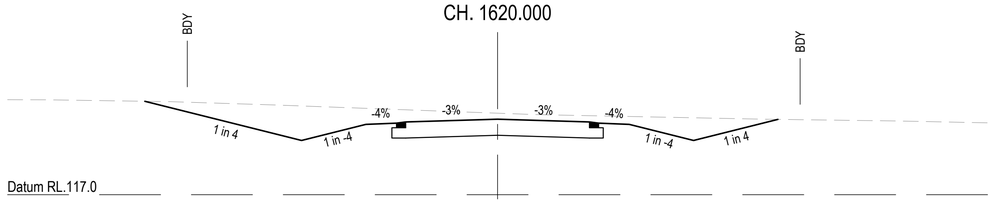
CH. 1660.000



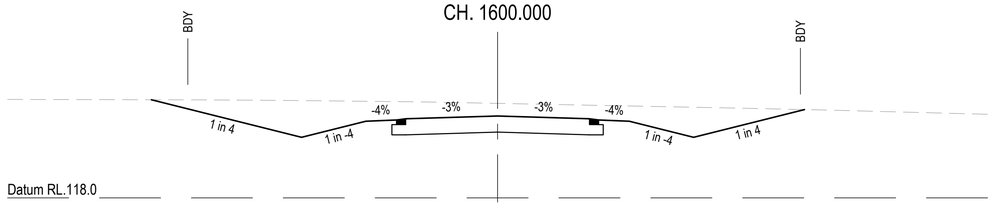
CH. 1640.000



CH. 1620.000



CH. 1600.000



CH. 1580.000

REVISIONS:			
A	ISSUED FOR CONSTRUCTION	MP	00/00/00
No.	REVISION DESCRIPTION	DRAWN	DATE

PARK LAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

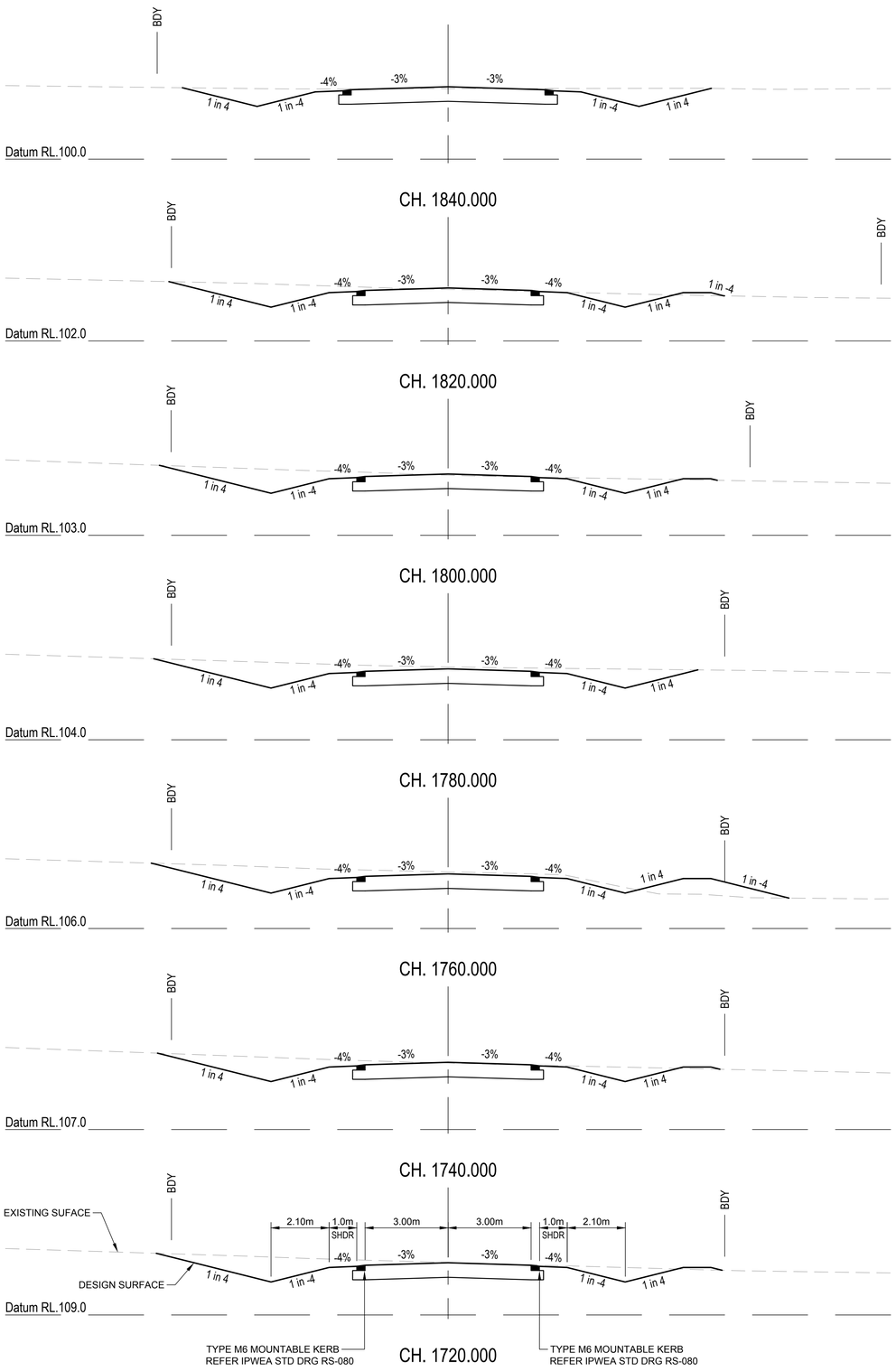
0 1 2 3 4 5m 10m
SCALE 1:100

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
ROAD CROSS SECTIONS
HOWELL CIRCUIT - SHEET 1

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.		DRAWING No.	REVISION
BR222025		C2456	A



REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARK LAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

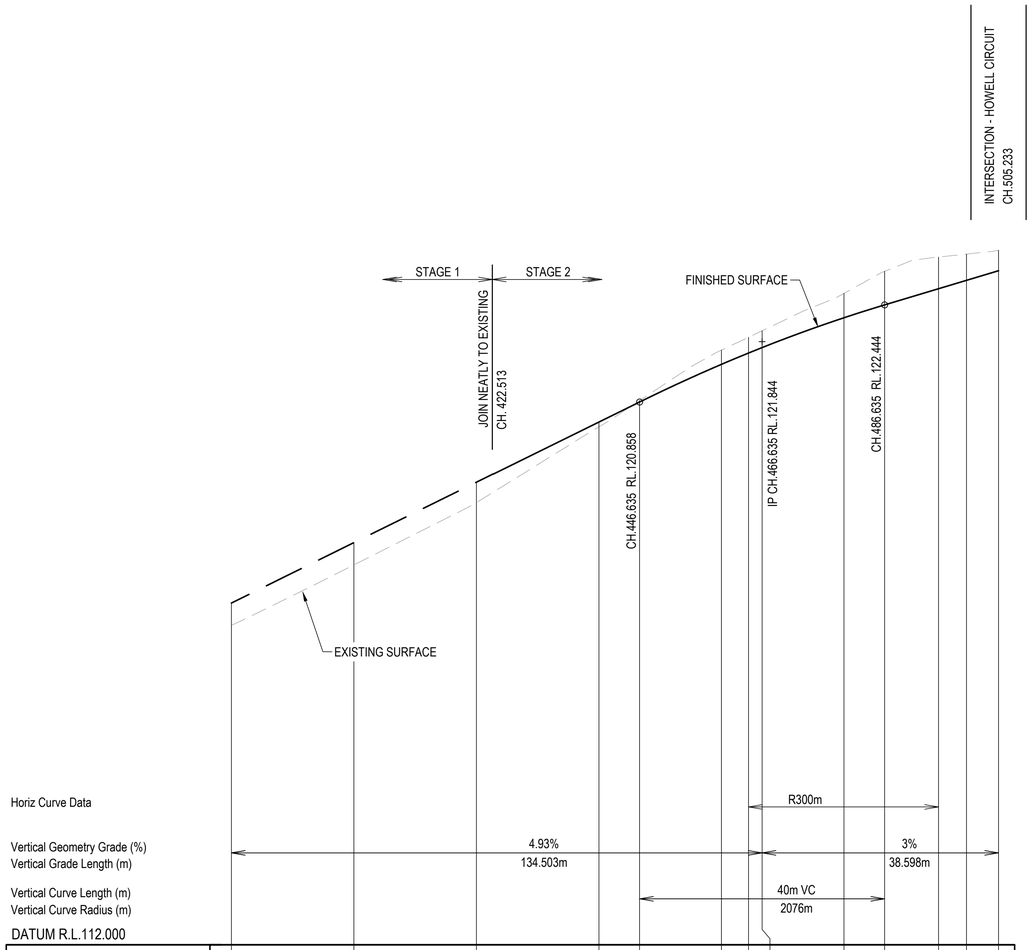
0 1 2 3 4 5m 10m
SCALE 1:100

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

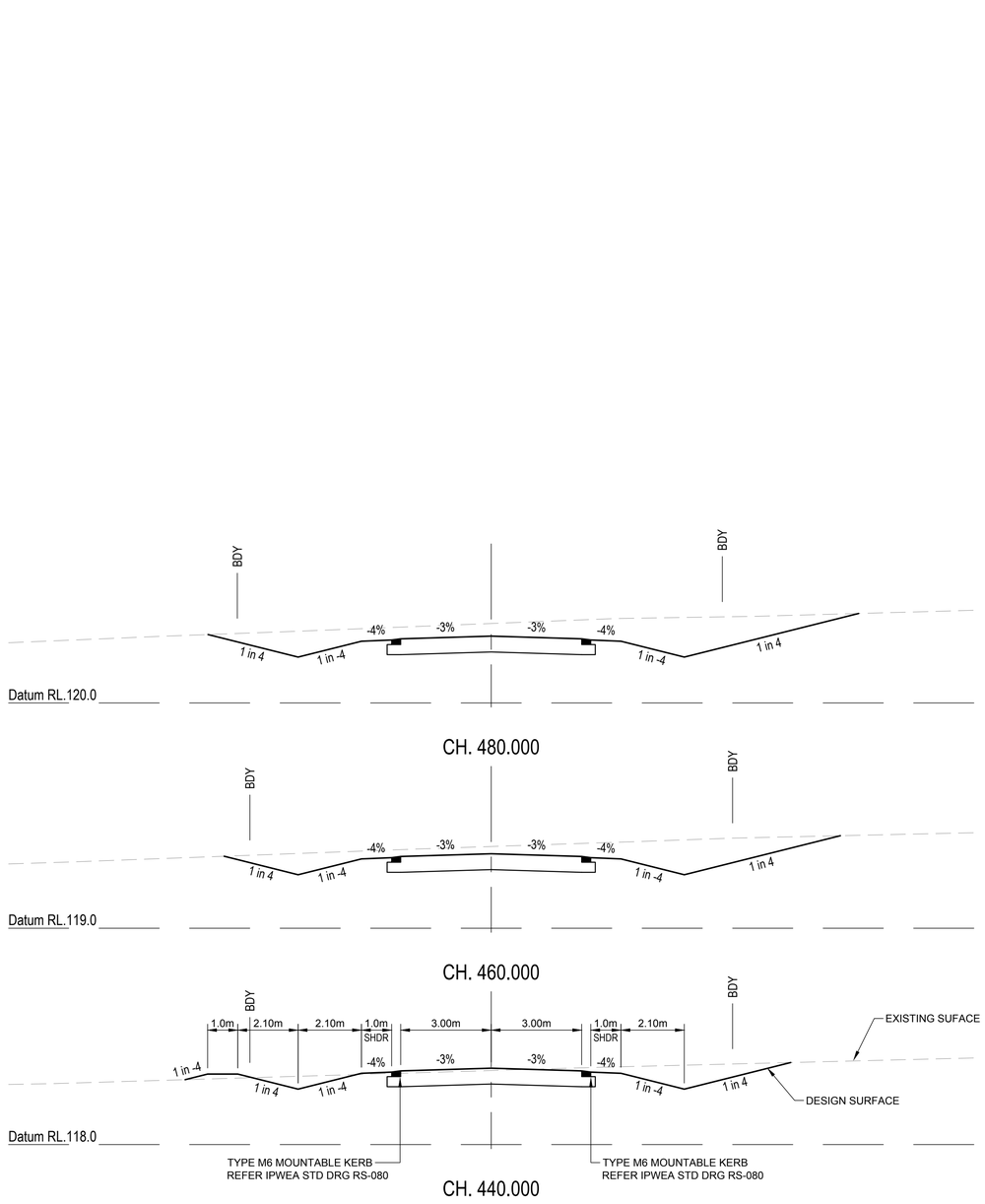
DRAWING TITLE
ROAD CROSS SECTIONS
HOWELL CIRCUIT - SHEET 2

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2457		A



NATURAL SURFACE LEVELS	117.213	118.201	119.217	120.453	120.881	121.706	121.916	122.021	122.632	122.992	123.225	123.273	123.335
CUT / FILL DEPTH	0.362	0.360	0.329	0.078	-0.023	-0.233	-0.257	-0.274	-0.398	-0.548	-0.517	-0.429	-0.334
DESIGN SURFACE LEVELS	117.575	118.560	119.546	120.531	120.858	121.474	121.658	121.747	122.234	122.444	122.708	122.845	123.001
CHAINAGE	380.000	400.000	420.000	440.000	446.635	460.000	464.420	466.635	480.000	486.635	495.438	500.000	505.233



LONGITUDINAL SECTION - AXFORD WAY

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:50

0 10 20 30 40 50m
SCALE 1:500 (HORIZONTAL)

0 1 2 3 4 5m
SCALE 1:50 (VERTICAL)

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT
0 1 2 3 4 5m 10m
SCALE 1:100

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
ROAD LONGITUDINAL AND CROSS SECTIONS - AXFORD WAY

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2458		A

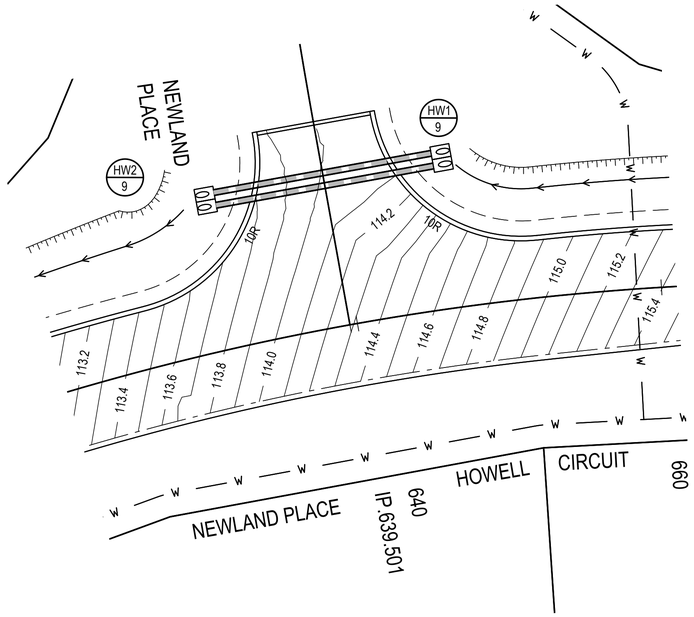
LEGEND

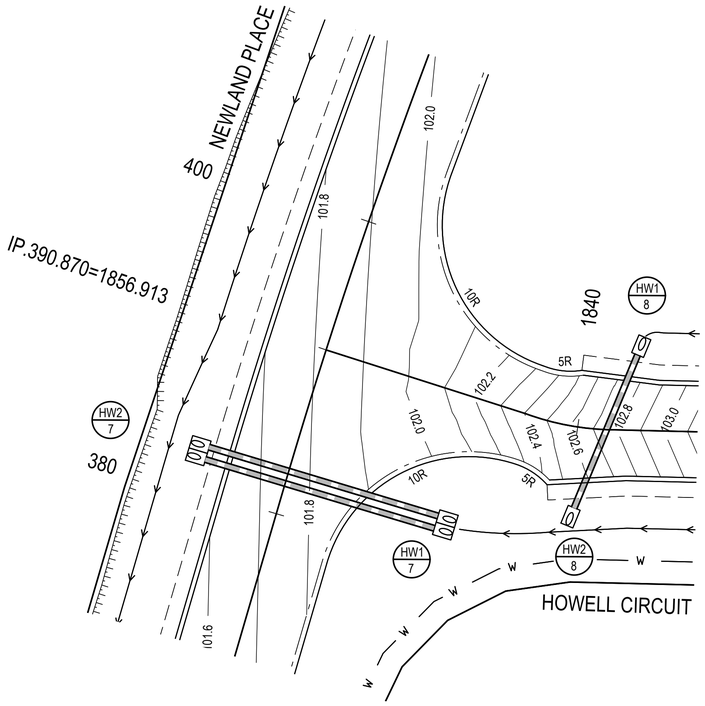
EXISTING	PROPOSED
FENCE	OPEN DRAIN
OPEN DRAIN	KERB AND CHANNEL TYPE B1
KERB AND CHANNEL	MOUNTABLE KERB TYPE M4
KERB ONLY	MOUNTABLE KERB TYPE M6
CONTOUR (0.100m)	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	

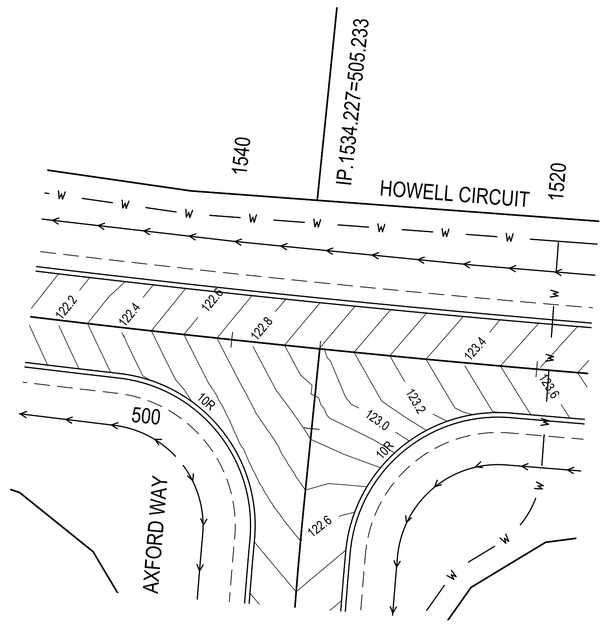
SERVICES (PUP) LEGEND

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	W

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.







REVISIONS:			
A	ISSUED FOR CONSTRUCTION	MP	00/00/00
No.	REVISION DESCRIPTION	DRAWN	DATE

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

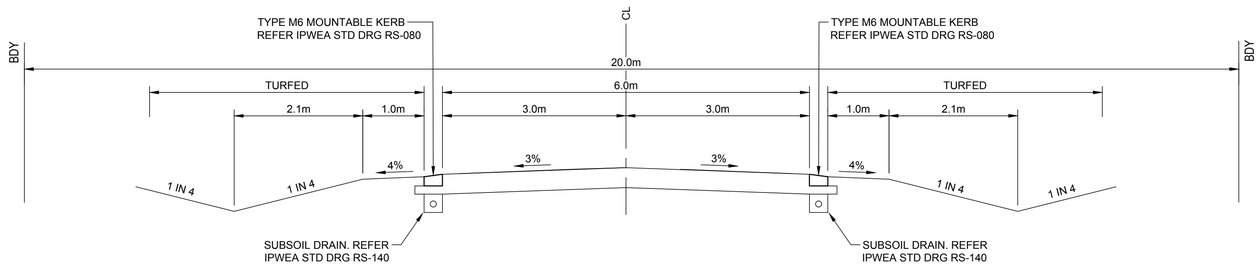
SCALE 1:200

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

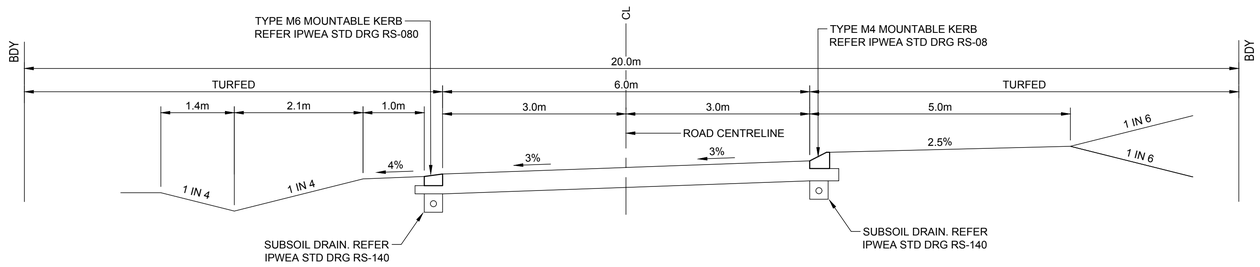
DRAWING TITLE
INTERSECTION DETAILS

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2480		A

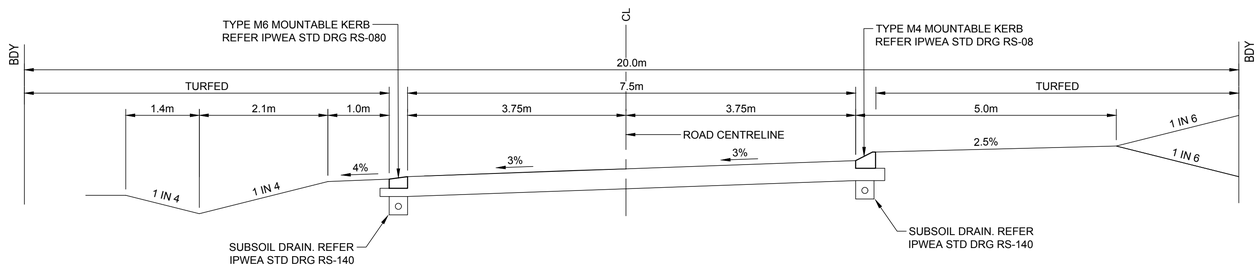


ROAD TYPICAL SECTION - HOWELL CIRCUIT (CH.1432 TO END)



ROAD TYPICAL SECTION - HOWELL CIRCUIT (CH.660 TO CH.785)

SCALE 1:50



ROAD TYPICAL SECTION - NEWLAND PLACE (CH.303 TO CH.640)

SCALE 1:50

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT
0 1 2 3 4 5m
SCALE 1:50

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
ROADWORKS DETAILS

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2490		A

TABLE DRAIN CALCULATIONS - LOCATION A

DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 9.46ha
Mannings n = 0.03
Longitudinal Grade = 0.93%
TC = 17.5 minutes
Q_{3mth} Flow = 380l/s
Q_{3mth} Depth of flow = 329mm
Q_{3mth} Freeboard = 21mm
Q_{3mth} Velocity = 0.88m/s
Depth x Velocity Ratio = 0.29

TABLE DRAIN CALCULATIONS - LOCATION B

DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 1.15ha
Mannings n = 0.03
Longitudinal Grade = 7.3%
TC = 15 minutes

Q_2 Flow = 121l/s
Q_2 Depth of flow = 142mm
Q_2 Freeboard = 408mm
Q_2 Velocity = 1.5m/s
Depth x Velocity Ratio = 0.21

Q_{50} Flow = 377l/s
Q_{50} Depth of flow = 215mm
Q_{50} Freeboard = 335mm
Q_{50} Velocity = 2.0m/s
Depth x Velocity Ratio = 0.43

TABLE DRAIN CALCULATIONS - LOCATION C

DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 0.69ha
Mannings n = 0.03
Longitudinal Grade = 7.3%
TC = 10 minutes

Q_2 Flow = 86l/s
Q_2 Depth of flow = 125mm
Q_2 Freeboard = 425mm
Q_2 Velocity = 1.4m/s
Depth x Velocity Ratio = 0.18

Q_{50} Flow = 348l/s
Q_{50} Depth of flow = 211mm
Q_{50} Freeboard = 339mm
Q_{50} Velocity = 2.0m/s
Depth x Velocity Ratio = 0.42

TABLE DRAIN CALCULATIONS - LOCATION D

DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 6.48ha
Mannings n = 0.03
Longitudinal Grade = 0.93%
TC = 17 minutes
Q_{3mth} Flow = 278l/s
Q_{3mth} Depth of flow = 285mm
Q_{3mth} Freeboard = 45mm
Q_{3mth} Velocity = 0.86m/s
Depth x Velocity Ratio = 0.25

TABLE DRAIN CALCULATIONS - LOCATION E

DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 0.57ha
Mannings n = 0.03
Longitudinal Grade = 5.1%
TC = 10 minutes

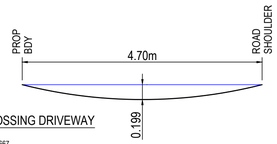
Q_2 Flow = 71l/s
Q_2 Depth of flow = 124mm
Q_2 Freeboard = 426mm
Q_2 Velocity = 1.2m/s
Depth x Velocity Ratio = 0.15

Q_{50} Flow = 221l/s
Q_{50} Depth of flow = 190mm
Q_{50} Freeboard = 360mm
Q_{50} Velocity = 1.5m/s
Depth x Velocity Ratio = 0.29

LEGEND:

- STORMWATER CATCHMENT
- HW1/2 1.2713ha — STORMWATER CATCHMENT NAME
- B — TABLE DRAIN FLOW CALCULATION LOCATION

DRIVEWAY WEIR FLOW CALCULATIONS



WEIR FLOW CROSSING DRIVEWAY

$$H = \left(\frac{Q}{CL}\right)^{0.667}$$

$$H = \left(\frac{0.47}{1.67 \times 3.14}\right)^{0.667} = 199\text{mm}$$

	Q50 FLOW	MAX WEIR FLOW	CULVERT FLOW	CULVERT SIZE FOR BLOCK PURCHASER INSTALL
LOT 100	173l/s	470l/s	173l/s	375 RCP
LOT 101	259l/s	470l/s	259l/s	375 RCP
LOT 102	316l/s	470l/s	316l/s	375 RCP
LOT 103	322l/s	470l/s	322l/s	375 RCP
LOT 104	328l/s	470l/s	328l/s	375 RCP
LOT 105	339l/s	470l/s	339l/s	375 RCP
LOT 112	216l/s	470l/s	216l/s	375 RCP
LOT 113	147l/s	470l/s	147l/s	375 RCP
LOT 114	64l/s	470l/s	64l/s	375 RCP
LOT 115	29l/s	470l/s	29l/s	375 RCP
LOT 133	144l/s	470l/s	144l/s	375 RCP
LOT 134	97l/s	470l/s	97l/s	375 RCP

HW1/9
1.7917ha

HW1/8
0.6996ha

HW1/7
1.1611ha

A B C D E

84 85 86 87 88 83 82 105 104 103 102 101 106 107 112 113 114 134

REVISIONS:			
A	ISSUED FOR CONSTRUCTION	MP	00/00/00
No.	REVISION DESCRIPTION	DRAWN	DATE

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

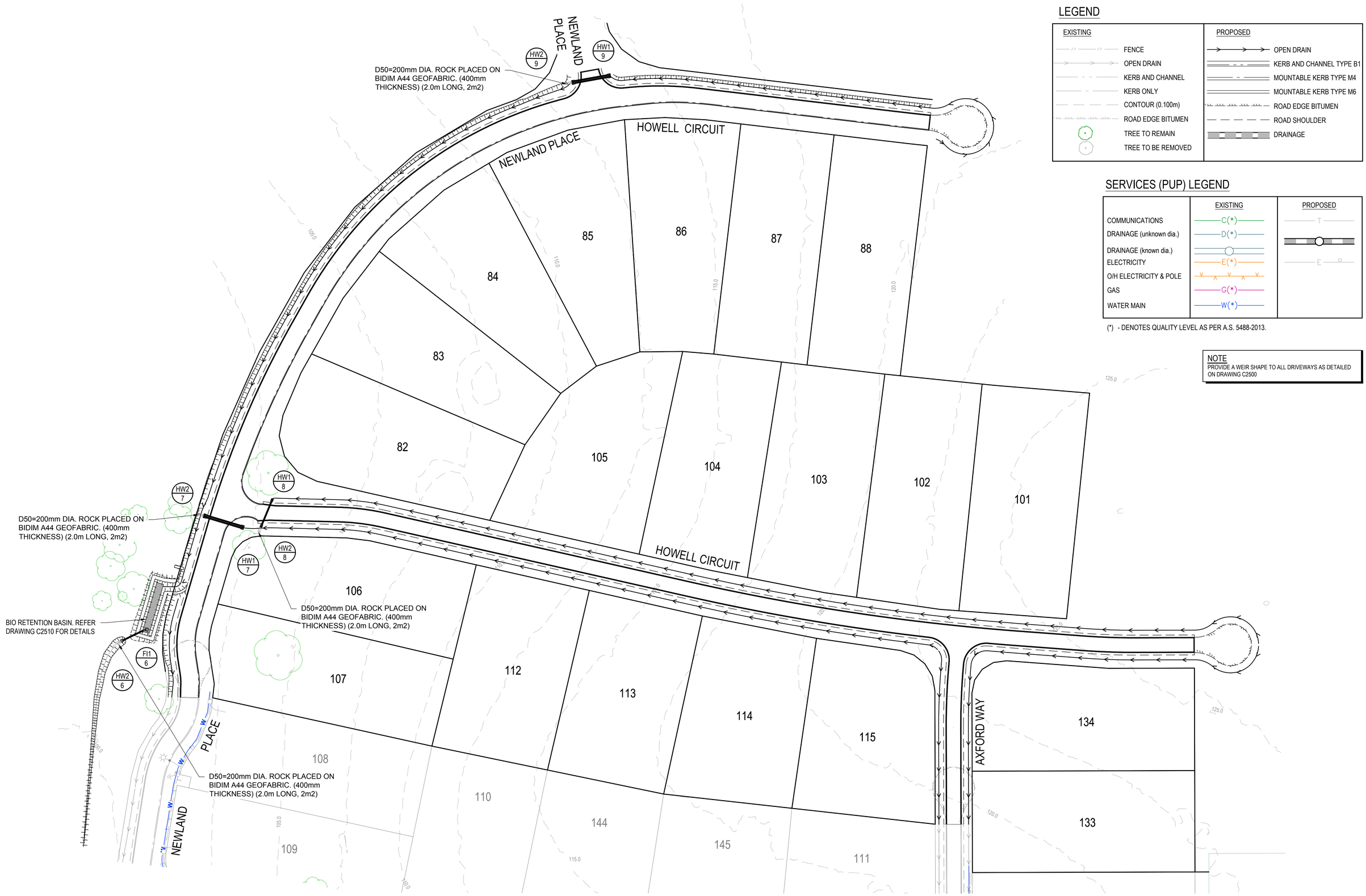
0 10 20 30 40 50m 100m
SCALE 1:1000

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
DRAINAGE CATCHMENT PLAN

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2500		A



LEGEND

EXISTING	PROPOSED
FENCE	OPEN DRAIN
OPEN DRAIN	KERB AND CHANNEL TYPE B1
KERB AND CHANNEL	MOUNTABLE KERB TYPE M4
KERB ONLY	MOUNTABLE KERB TYPE M6
CONTOUR (0.100m)	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	

SERVICES (PUP) LEGEND

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	T
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	E
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

NOTE
PROVIDE A WEIR SHAPE TO ALL DRIVEWAYS AS DETAILED ON DRAWING C2500

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

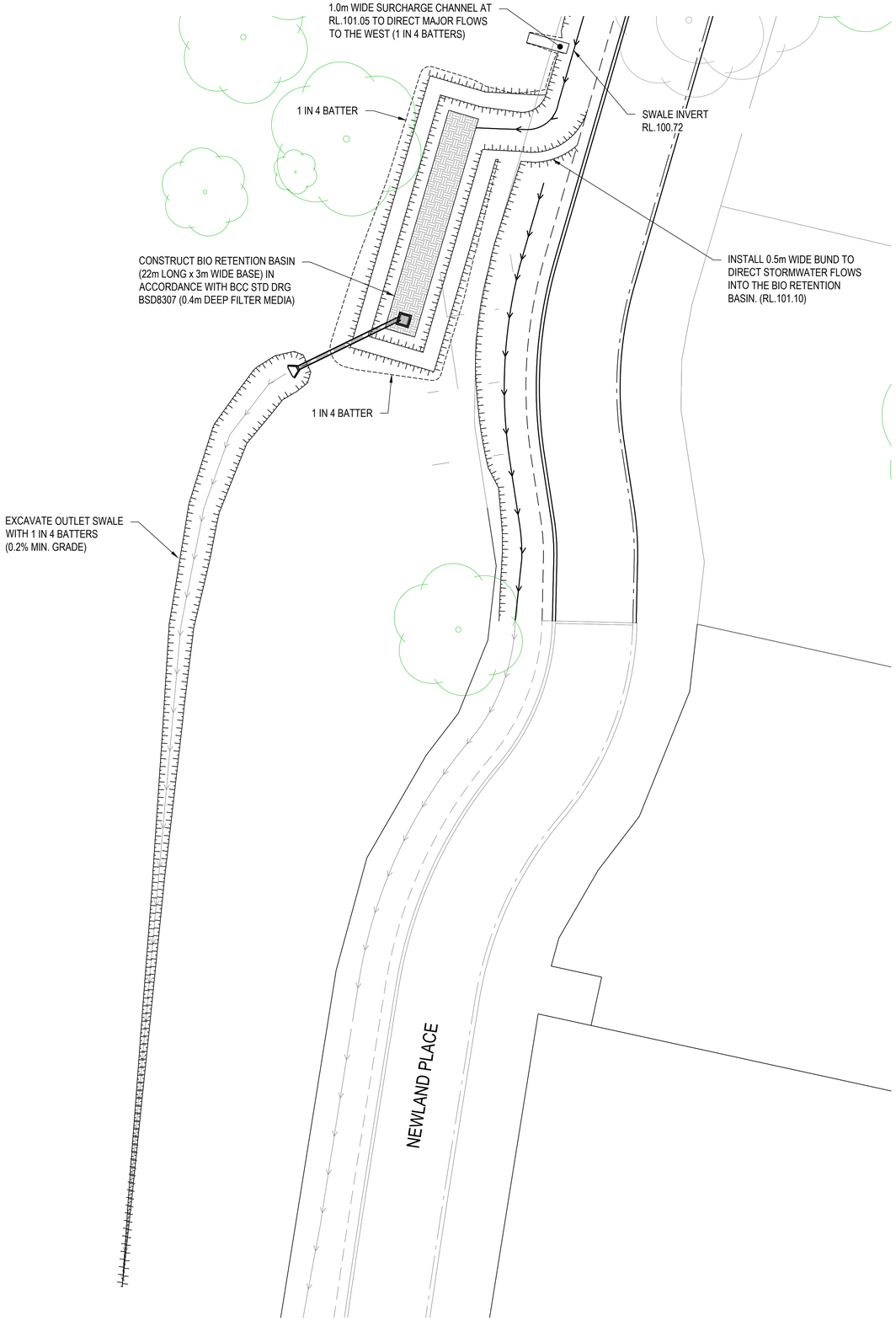
0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
DRAINAGE PLAN

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2501		A



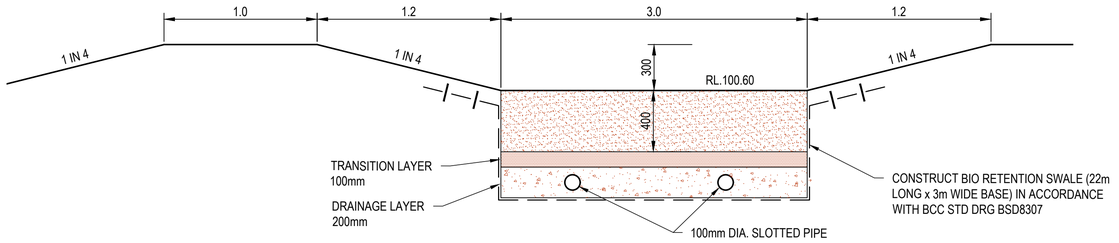
SERVICES (PUP) LEGEND

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

LEGEND

EXISTING	PROPOSED
FENCE	OPEN DRAIN
OPEN DRAIN	KERB AND CHANNEL TYPE B1
KERB AND CHANNEL	MOUNTABLE KERB TYPE M4
KERB ONLY	MOUNTABLE KERB TYPE M6
CONTOUR (0.100m)	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	



TYPICAL BIORETENTION BASIN SECTION

SCALE 1:20

0 1 2 3 4 5 1m 1.5 2m

SCALE 1:20

0 1 2 3 4 5 10m 15 20m

SCALE 1:250

REVISIONS:			
A	ISSUED FOR CONSTRUCTION	MP	00/00/00
No.	REVISION DESCRIPTION	DRAWN	DATE

PARKLAKE ADARE

N

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

0 1 2 3 4 5 10m 15 20m

SCALE 1:250

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
DRAINAGE BIO RETENTION BASIN DETAILS

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2510		A

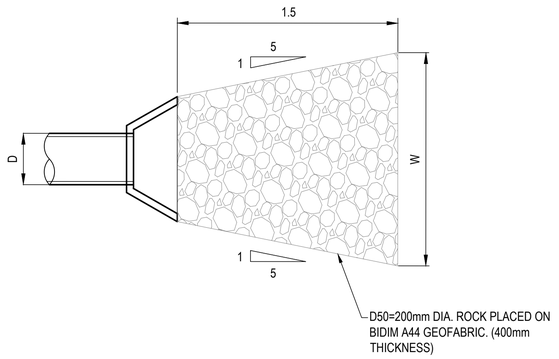
STRUCTURE NAME	FI1/6	HW2/6	HW1/7	HW2/7	HW1/8	HW2/8	HW1/9	HW2/9
STRUCTURE DESCRIPTION	900 x 900 FIELD INLET	CONCRETE HEADWALL	CONCRETE SLOPED HEADWALL	CONCRETE SLOPED HEADWALL	CONCRETE SLOPED HEADWALL	CONCRETE SLOPED HEADWALL	CONCRETE SLOPED HEADWALL	CONCRETE SLOPED HEADWALL
PIPE SIZE (mm)		375Ø		(2x)375Ø		375Ø		(2x)450Ø
PIPE CLASS		4		4		4		4
PIPE GRADE (%)		0.40%		2.21%		1.80%		3.12%
PIPE SLOPE (1 in X)		1 in 247		1 in 45		1 in 56		1 in 32
FULL PIPE VELOCITY (m/s)		1.12		2.36		2.13		3.17
PART FULL VELOCITY (m/s)		0.00		2.60		2.27		3.02
DATUM RL		88.0		89.0		90.0		101.0
H.G.L IN PIPE & W.S.E IN STRUCTURE		100.020	101.865	101.523	102.513	102.303	113.864	113.662
								99.940 / 101.230 / 102.185 / 113.340
PIPE FLOW (Cumecs)		0.000		0.395		0.153		0.417
PIPE CAPACITY AT GRADE (Cumecs)		0.124		0.522		0.235		1.008
DEPTH TO INVERT		0.984	0.690	0.625	0.625	0.625	0.705	0.705
								0.765 / 0.625 / 0.625 / 0.705
INVERT LEVEL OF DRAIN		99.846	101.200	100.855	102.015	101.810	113.340	112.890
								99.800 / 100.855 / 101.810 / 112.890
DESIGN SURFACE LEVEL	100.830		101.890	101.480	102.640	102.435	114.045	113.595
								100.565
SETOUT COORDINATES	E 429929.570	E 429918.623	E 429976.451	E 429962.361	E 429991.256	E 429985.345	E 430162.224	E 430147.826
	N 6954343.185	N 6954340.096	N 6954380.853	N 6954387.549	N 6954389.908	N 6954380.160	N 6954549.204	N 6954548.818
CHAINAGE	0.000	11.375	0.000	15.600	0.000	11.400	0.000	14.402
		11.375		15.600		11.400		
LINE		6		7		8		9

ALL PIPEWORK TO BE FIBRE REINFORCED CONCRETE TO THE SIZES NOMINATED.

ALL BEDDING AND BACKFILLING OF PIPE TRENCHES AS PER IPWEAQ STANDARD DRAWING DS-030

ALL DRAINAGE FIELD INLETS AS PER IPWEAQ STANDARD DRAWING DS-050

Q10 HGL



OUTLET PROTECTION DETAIL

PROVIDE TO ALL OUTLETS
N.T.S.

TYPICAL FIELD INLET SETOUT

SCALE 1:50

DENOTES SETOUT POINT

TYPICAL HEADWALL SETOUT

SCALE 1:50

DENOTES SETOUT POINT

0 10 20 30 40 50m 100m
SCALE 1:1000 (HORIZONTAL)

0 1 2 3 4 5m
SCALE 1:50

0 1 2 3 4 5m 10m
SCALE 1:100 (VERTICAL)

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
DRAINAGE LONGITUDINAL SECTIONS
SHEET 1

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2550		A

LOCATION			SUB-CATCHMENT RUNOFF						INLET DESIGN														DRAIN DESIGN														HEAD LOSSES							PART FULL		DESIGN LEVELS								
			Tc	I		A	CA	Qc	Qa														Tc	I	CA	Qrat	Q	L	S		Vf=Q/A	Qcap	Vcap	Vt																			
STRUCTURE No.	CATCHMENT CONTRIBUTING	DRAIN SECTION	SUB-CATCHMENT TIME OF CONC.	RAINFALL INTENSITY	CO-EFFICIENT OF RUN-OFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	HALF ROAD CAPACITY	FLOW WIDTH	FLOW DEPTH	FLOW DxV	ROAD GRADE AT INLET	ROAD XFALL AT INLET	INLET TYPE	BLOCKAGE FACTOR	INLET CURVE	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE No.	CRITICAL TIME OF CONC.	RAINFALL INTENSITY	TOTAL (C x A)	PEAK FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE SIZE	FULL PIPE VELOCITY	CAPACITY FLOW	CAPACITY VELOCITY	TRAVEL VELOCITY	CHART(S) USED	VELOCITY HEAD	U/S HEAD LOSS COEFFICIENT	U/S HEAD LOSS	W.S.E COEFFICIENT	CHANGE IN W.S.E	PIPE FRICTION SLOPE	PIPE FRICTION HEAD LOSS	NORMAL DEPTH	NORMAL DEPTH VEL.	PIPE U/S I.L	PIPE D/S I.L	PIPE U/S H.G.L	PIPE D/S H.G.L	W.S.E	SURFACE LEVEL	FREEBOARD	STRUCTURE No.
			min	mm/h		ha	ha	L/s	L/s	L/s	m	m	m^2/s	%	%				L/s	L/s		min	mm/hr	ha	L/s	L/s	m	%	mm	m/s	L/s	m/s	m/s		$Vf^2/2g$	Ku	hu	Kw	hw	Sf	hf	dn	Vn									
FI1/6	FI1/6	FI1/6 to HW2/6														900 x 900 FIELD INLET	0.5					5	182				11.3746	0.40441	375		111.5454	1.009949	2	Inlet Control						0.40441	0.046			99.846	99.8	99.846	99.8	99.846	100.83	0.984	FI1/6
HW2/6	HW2/6															CONCRETE HEADWALL																																		99.8	100.565		HW2/6
HW1/7	HW1/7	HW1/7 to HW2/7	14.96441	125.1637	0.6	1.161131	0.696679	242.2191	242.2191						-0.42363	CONCRETE HEADWALL	0.8		242.2191			14.96441	125.1637	0.696679	395.2191	395.2191	15.60001	2.532049	(2x)375	1.789186	558.2221	2.527113	2	Inlet Control	0.163326	2.091178	0.341543		0.341543	2.197557	0.374294	0.233014	2.739944	101.25	100.855	101.5728	101.23	101.9144	101.94	0.025637	HW1/7
HW2/7	HW2/7															CONCRETE HEADWALL																																		101.23	101.48		HW2/7
HW1/8	HW1/8	HW1/8 to HW2/8	13.66939	131.1208	0.6	0.699582	0.419749	152.8829	152.8829						4	CONCRETE HEADWALL	0.8		152.8829			13.66939	131.1208	0.419749	152.8829	152.8829	11.39987	1.798267	375	1.384225	235.2166	2.129686	2	Inlet Control	0.097759	2.147085	0.209897		0.209897	1.03591	0.164186	0.220283	2.266471	102.015	101.81	102.3031	102.185	102.513	102.64	0.127011	HW1/8
HW2/8	HW2/8															CONCRETE HEADWALL																																		102.185	102.435		HW2/8
HW1/9	HW1/9	HW1/9 to HW2/9	11.79067	139.7629	0.6	1.79167	1.075002	417.3483	417.3483						20.17928	CONCRETE HEADWALL	0.8		417.3483			11.79067	139.7629	1.075002	417.3483	417.3483	14.40237	3.124486	(2x)450	1.31206	1008.347	3.170044	2	Inlet Control	0.087832	2.301312	0.202128		0.202128	2.23517	0.383977	0.201822	3.019444	113.34	112.89	113.6619	113.34	113.864	114.045	0.080954	HW1/9
HW2/9	HW2/9															CONCRETE HEADWALL																																		113.34	113.595		HW2/9

STORMWATER CALCULATIONS TABLE (Q10)

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
DRAINAGE CALCULATIONS

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.		DRAWING No.	REVISION
BR222025		C2560	A

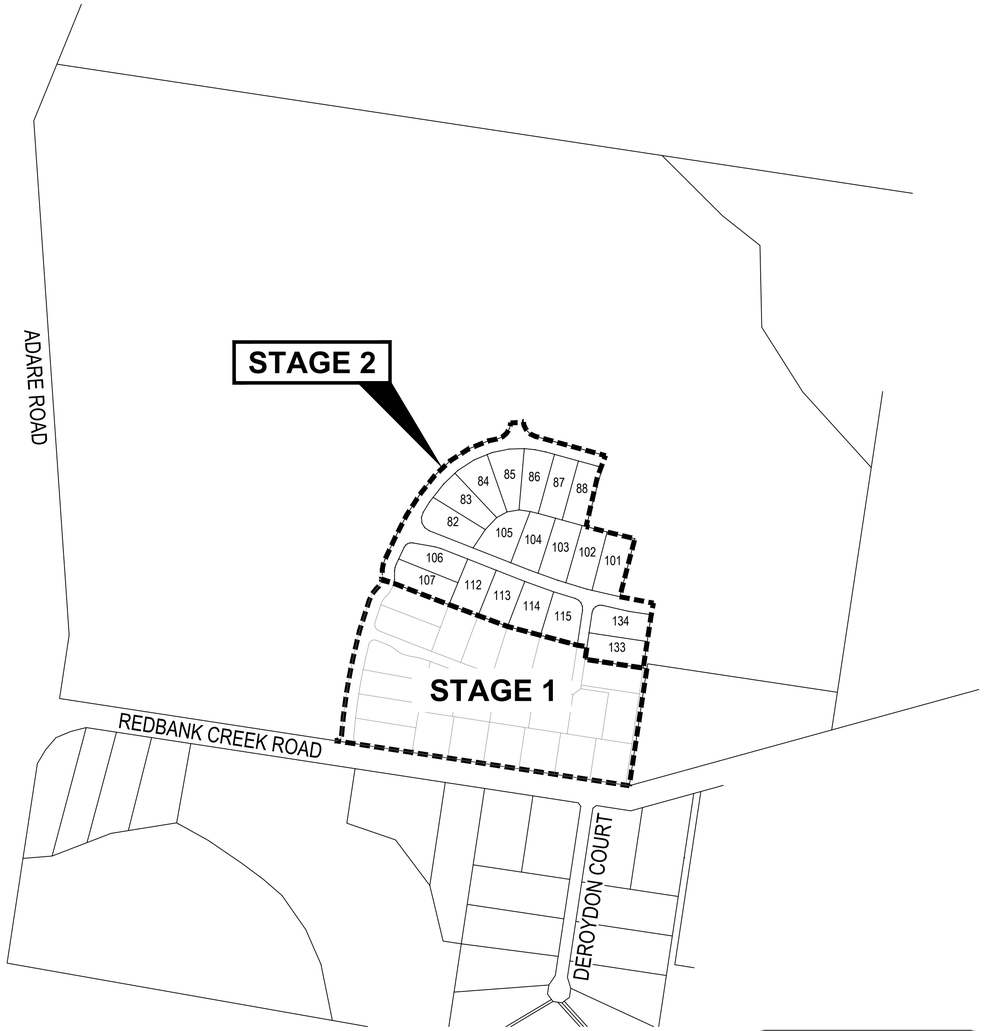
ASSET REGISTER - WATER RETICULATION					
ESTATE/STAGE	STAGE 2				
SITE ADDRESS	174 ADARE ROAD, ADARE				
FILE/APPLICATION					
DELEGATES APP. DATE					
CLIENT	PARK LAKE ADARE PTY LTD				
DRAWING/PLAN No.					

MAINS	DIA.	MATERIAL DESIGN	MATERIAL CONST.	LENGTH DESIGN	LENGTH CONST.
	DN125	PE		575m	
	DN180	PE		406m	

SERVICES	DIA.	MATERIAL DESIGN	MATERIAL CONST.	LENGTH DESIGN	LENGTH CONST.
	20mm				
	25mm				
	32mm	PE100 PN16		6m	
	40mm	PE100 PN16		19m	

METERS	DIA.	NUMBER
	20mm	20
	25mm	
	32mm	
	150mm	
	50mm	

SERVICE DETAILS		
NO	SIZE	LOT NUMBERS
16	DN25 PE	82-88, 101-107, 133 AND 134
4	DN32 PE	112-115



LOCALITY PLAN
SCALE 1:5000

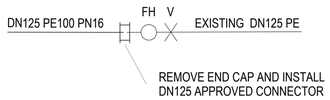
ALL ENVIRONMENTAL PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING COMMENCING.

ALL WATER AND SEWER CONSTRUCTION WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORKPLACE HEALTH AND SAFETY ACT 2011.

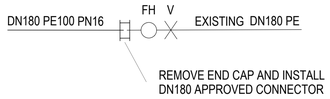
CONTACT THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION PHONE : 1300 362 128

SEQ CODE STANDARD DRAWING SCHEDULE

SOIL CLASSIFICATION	SEQ-WAT-1200-1
EMBEDMENT AND TRENCH FILL	SEQ-WAT-1200-2
THRUST BLOCK DETAILS	SEQ-WAT-1205-1
VALVE THRUST BLOCKS	SEQ-WAT-1206-1
IDENTIFICATION MARKERS	SEQ-WAT-1300-1,2



LIVE CONNECTION DETAIL '2'
DIAGRAMMATIC



LIVE CONNECTION DETAIL '1'
DIAGRAMMATIC

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND WATER SUPPLY CODE SPECIFICATIONS AND STANDARDS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
4. COVER ON MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
5. CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
6. A WATER METER SUPPLIED AT THE DEVELOPER'S COST, IS TO BE INSTALLED AT THE SERVICE POINT OF EACH LOT IN ACCORDANCE WITH THE STANDARD DRAWING FOR THE SEQ-SP.
7. ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH THE SEQ-SP'S ACCEPTED PRODUCTS AND MATERIALS LIST OR BE APPROPRIATELY SHOWN, LISTED AND DEFINED IN THE ENGINEERING SUBMISSION SO THAT THE ALTERNATIVE PRODUCT OR MATERIAL CAN BE ASSESSED AND IF APPROPRIATE, APPROVED BY THE SEQ-SP.
8. ALL CONCRETE FOOTPATHS TO BE CLEAR OF WATER MAINS.
9. TEST/CHLORINATION POINTS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NO.SEQ-WAT-1410-1.
10. THE CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.
11. WATER MAIN ROAD CROSSING AND VALVE PAVEMENT MARKERS TO BE INSTALLED AS PER SEQ-WAT-1300-1.

WATER MAIN CONSTRUCTION NOTES

1. DURING ANY CONSTRUCTION ACTIVITY AT LEAST ONE PERSON ON SITE MUST HAVE COMPLETED A PIPE LAYING TRAINING COURSE APPROVED BY THE PIPE SUPPLIER OR MANUFACTURER AND APPROPRIATE TO THE PIPELINE UNDER CONSTRUCTION. THE TRAINING COURSE MUST HAVE BEEN COMPLETED WITHIN THE LAST TEN YEARS.
2. ALL SITE AND FACTORY PE WELDING SHALL BE CARRIES OUT BY A PERSON WHO HAS COMPLETED RELEVANT NATIONALLY ACCREDITED TRAINING COURSES FOR BUTT WELDING/ELECTROFUSION AND HOLD A VALID WELDING CERTIFICATE IN ACCORDANCE WITH AS/NZS 2033.
3. THE CONTRACTOR SHALL PROVIDE DOCUMENTED EVIDENCE OF ACCEPTABLE QUALIFICATIONS TO URBAN UTILITIES.
4. INSTALL DETECTABLE MARKER TAPE ON ALL WATER MAINS AND PROPERTY SERVICES.
5. CONSTRUCT FIRE HYDRANTS AND STOP VALVES TO SEQ-WAT-1301-1, 1302-1, 1303-2, 1305-1, 1306-1 & 1409-1.
6. ALL LIVE WORKS SHALL BE UNDERTAKEN BY THE DEVELOPER'S LICENSED CONTRACTOR IN ACCORDANCE WITH A VALID URBAN UTILITIES NETWORK ACCESS PERMIT, UNDER SUPERVISION OF URBAN UTILITIES, AT THE DEVELOPER'S EXPENSE.
7. PROPOSED WORKS ARE LOCATED WITHIN FIRE ANT BIOSECURITY ZONE 2. ALL WORKS ARE TO BE TO DAFF REQUIREMENTS.

VEGETATION PROTECTION

1. TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
2. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
3. TREE ROOTS SHALL BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
4. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

1. TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
2. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.
3. IF ACID SULPHATE SOILS EXIST IN THE WORKS AREA THE OUTPUTS FROM THE RISK ASSESSMENT BASED ON THE QUEENSLAND ACID SULPHATE SOIL TECHNICAL MANUAL SHALL BE ADHERED TO.

REHABILITATION

1. PRE-DISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
2. PRE-DISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.
3. ALL DISTURBED AREAS ASSOCIATED WITH CONSTRUCTION SHALL BE REHABILITATED. HEAVILY COMPACTED AREAS SHOULD BE RIPPED PRIOR TO TREATMENT
4. ALL DISTURBED AREAS ARE TO BE LEFT IN STABLE CONDITION.
5. ALL PLANTING/RE-VEGETATION WILL NEED TO BE MAINTAINED THROUGHOUT THE MAINTENANCE PERIOD.
6. TRENCH REINSTATEMENT IS TO BE UNDERTAKEN IN ACCORDANCE WITH SEQ STANDARD REQUIREMENTS FOR EMBEDMENT AND TRENCH FILL. STANDARD DRAWINGS HAVE BEEN NOTED ON THIS PLAN.

BEFORE YOU DIG www.byda.com.au

ALL LIVE WORKS ON AC MAIN SHALL INCLUDE REMOVAL OF EXISTING AC MAIN FROM COLLAR TO COLLAR.

VALVE MARKERS, HYDRANT MARKERS AND PAVEMENT MARKINGS ARE TO BE INSTALLED/REINSTATED IN ACCORDANCE WITH SEQ-WAT-1300-1

AS CONSTRUCTED

AS CONSTRUCTED DOCUMENTATION IS TO BE PROVIDED IN ACCORDANCE WITH REQUIREMENTS AS SPECIFIED IN THE SEQ D&C CODE INCLUSIVE OF FULL ADAC COMPLAINT SURVEY

LIVE WORKS CONNECTION 1

STREET : NEWLAND PLACE
INSTALLATION :
TYPE OF MAIN : EXISTING DN180 PE
DATE COMMENCED :
DATE COMPLETED :
SIGNATURE :

LIVE WORKS CONNECTION 2

STREET : AXFORD WAY
INSTALLATION :
TYPE OF MAIN : EXISTING DN125 PE
DATE COMMENCED :
DATE COMPLETED :
SIGNATURE :

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
A	ISSUED FOR CONSTRUCTION	MP	00/00/00

PARKLAKE ADARE

N

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

0 100 200 300 400 500m
SCALE 1:5000

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
WATER RETICULATION COVER SHEET

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE		
CK	MP			
DRAFTSPERSON	SCALE	DATE	SHEET SIZE	
MP	AS SHOWN	NOV 2022	A1	
JOB No.	DRAWING No.	REVISION		
BR222025	C2600	A		

ABBREVIATION LEGEND

AC	- ASBESTOS CEMENT	DS	- DOUBLE SOCKET
CICL	- CAST IRON CEMENT LINED	DSP	- DOUBLE SPIGOT
CISL	- CAST IRON SPUN LINED	EW	- EARTHENWARE
CR	- CONCRETE REINFORCED	FH	- FIRE HYDRANT
CTS	- CUT TO SUIT	F&S	- FLANGE & SOCKET
CUR	- CONCRETE UN-REINFORCED	F&SP	- FLANGE & SPIGOT
DF	- DOUBLE FLANGE	RTS	- ROTATE TO SUIT
DI	- DUCTILE IRON	S&SP	- SOCKET & SPIGOT
DICL	- DUCTILE IRON CEMENT LINED		

SYMBOLS LEGEND

PROPOSED FIRE HYDRANT
PROPOSED VALVE
PROPOSED SCOUR VALVE
PROPOSED DEAD END
PROPOSED REDUCER
PROPOSED CONNECTOR
PROPOSED WATER METER
EXISTING FH
EXISTING VALVE
EXISTING SCOUR
EXISTING DEADEND
EXISTING REDUCER
EXISTING ZONE VALVE
EXISTING WATER METER
DISUSED FH
DISUSED VALVE
DISUSED SCOUR
DISUSED METER

LEGEND

EXISTING	PROPOSED
KERB AND CHANNEL	KERB AND CHANNEL TYPE B1
KERB ONLY	MOUNTABLE KERB TYPE M4
CONTOUR (1.0m)	MOUNTABLE KERB TYPE M6
ROAD EDGE BITUMEN	ROAD EDGE BITUMEN
	ROAD SHOULDER
	DRAINAGE
	R40 HYDRANT SPACING
	R90 HYDRANT COVERAGE

SERVICES (PUP) LEGEND

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	T
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY AND PILLAR	E(*)	E
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER	W(*)	W

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

NOTES:

1. PROPERTY SERVICES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH SEQ STD DWG SEQ-WAT-1107-1.
2. ALL PROPERTY SERVICES TO BE LOCATED 0.3m FROM SIDE BOUNDARY UNLESS NOTED OTHERWISE.
3. PIPE EMBEDMENT IS TO BE TYPE D IN ACCORDANCE WITH SEQ STD DWG SEQ-WAT-1200-2 AND SEQ-WAT-1201-1.

DN180 END CAP
DN180 PE100 SDR11 PN16
NEWLAND PLACE
DN125 STOP VALVE
DN180 STOP VALVE
DN180 x DN125 REDUCER
HOWELL CIRCUIT
DN125 PE100 SDR11 PN16
DN180 x DN180 TEE
DN125 END CAP
DN180 STOP VALVE
DN180 x DN180 TEE
DN125 STOP VALVE
DN180 x DN125 REDUCER
DN125 PE100 SDR11 PN16
DN40 PE
DN125 x DN125 TEE
DN125 STOP VALVE
DN125 END CAP
DN125 x DN125 TEE
AXFORD WAY
REFER TO LIVE CONNECTION 1
DETAIL ON DRAWING C2600
REFER TO LIVE CONNECTION 2
DETAIL ON DRAWING C2600
1 500
NEWLAND PLACE
82 83 84 85 86 87 88 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 133 134 144 145

REVISIONS:			
A	ISSUED FOR CONSTRUCTION	MP	00/00/00
No.	REVISION DESCRIPTION	DRAWN	DATE

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 1, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

ARCHITECT

0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGE 2

DRAWING TITLE
WATER RETICULATION PLAN

DRAWING STATUS
ORIGINAL ISSUE
FOR APPROVAL

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	NOV 2022	A1
JOB No.	DRAWING No.		REVISION
BR222025	C2601		A