SURVEY

1. THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN SUPPLIED BY REGISTERED SURVEYORS TO PROVIDE A BASIS FOR DESIGN. THE USE OF THIS SURVEY BASE DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
1. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT THE DESIGN ENGINEER.
2. THE RELATIONSHIP OF IMPROVEMENTS TO BOUNDARIES ARE DIAGRAMMATIC ONLY. WHERE DISTANCES TO BOUNDARIES ARE CRITICAL THEY SHOULD BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION BY FURTHER SURVEY.

LEGEND

BM	BENCHMARK
CL	CENTRELINE OF ROAD
EB	EDGE OF BITUMEN
HYD	HYDRANT
HW	HEADWALL
IK	INVERT OF KERB
IL	INVERT LEVEL
LK	LIP OF KERB
PP	POWER POLE
SMH	SEWER MANHOLE
SV	STOP VALVE
TEL	TELSTRA PIT
TK	TOP OF KERB
TOW	TOP OF WALL
VC	VEHICLE CROSSING
WELL	MONITORING WELL

GENERAL

1. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH PENRITH CITY COUNCIL STANDARDS.
2. PENRITH CITY COUNCIL STANDARD DETAILS TO BE USED WHERE POSSIBLE.
3. UTILITY ADJUSTMENTS AT DEVELOPERS EXPENSE.
4. CONDUITS TO BE PLACED WHERE REQUIRED BY THE RELEVANT AUTHORITIES.
5. SUBSOIL DRAINAGE LINES AND FLUSHING POINTS AT MAXIMUM 60m CENTRES SHALL BE INSTALLED BEHIND ALL KERBS.
6. A MINIMUM OF 3m OF SUBSOIL LINE SHALL BE LAID INTO UPSTREAM SIDE OF ALL DRAINAGE PITS.

EXISTING SERVICES LEGEND

EXISTING

OVERHEAD ELECTRICAL	e o/h
COMMUNICATIONS	c
SEWER	s
POTABLE WATER	pw

PROPOSED

WATER RISING MAIN (DESIGN BY OTHERS)	W

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EXISTING SERVICES

1. ALL UTILITY SERVICES INDICATED ON THE DRAWINGS ORIGINATE FROM SUPPLIED DATA, THEREFORE THEIR ACCURACY AND COMPLETENESS IS NOT GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND CONFIRM 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.
2. CARE TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER ALL LIVE SERVICES. HAND EXCAVATION ONLY IN THESE AREAS.
3. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING SERVICES THAT ARE TO BE RETAINED IN THE VICINITY OF THE PROPOSED WORKS. ANY AND ALL DAMAGE TO THESE SERVICES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE SUPERINTENDENT, AND AT NO EXTRA COST.
4. THE CONTRACTOR SHALL ALLOW IN THE PROGRAM FOR ADJUSTMENT (IF REQUIRED) OF EXISTING SERVICES IN AREAS AFFECTED BY WORKS.
5. THE CONTRACTOR SHALL ALLOW IN THE PROGRAM FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF EXISTING SERVICES IN AREA AFFECTED BY WORKS UNLESS DIRECTED OTHERWISE ON THE DRAWINGS OR BY THE SUPERINTENDENT.
6. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
7. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF THE PROGRAM FOR THE RELOCATION AND/OR CONSTRUCTION OF TEMPORARY SERVICES AND FOR ANY ASSOCIATED INTERRUPTION OF SUPPLY.
8. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
9. PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION A THOROUGH SEARCH OF ALL SERVICE AUTHORITIES SHOULD BE MADE TO DETERMINE THE POSSIBLE LOCATION OF ANY FURTHER UNDERGROUND SERVICES.
10. AUTHORITY PLANS GENERALLY SHOW ONLY THE PRESENCE OF CABLES AND PLANT AND DO NOT WARRANT OR GUARANTEE THAT SUCH PLANS ARE ACCURATE. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY. THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR EXISTING SERVICES AND PLANT. BEFORE USING MACHINE EXCAVATORS SERVICES MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POTHOLING TO IDENTIFY IT'S LOCATION.
11. THE CONTRACTOR IS TO UNDERTAKE A DIAL-BEFORE-YOU-DIG SEARCH PRIOR TO ANY EXCAVATION AND MAINTAIN A CURRENT SET ON-SITE DURING EXCAVATION WORKS.
12. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE 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.ENSPIRE SOLUTIONS CAN NOT 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 FROM ANY CAUSE WHATSOEVER.
13. CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS. 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.
14. THE WORKS WILL BE UNDERTAKEN IN A STAGED MANNER AS OUTLINED IN THE STAGING PLAN. HOWEVER, THE SEQUENCE OF STAGING MAY VARY AND WILL NOT NECESSARILY FOLLOW A SEQUENTIAL ORDER.
15. THE WORKS WILL INCLUDE ALL SERVICES, INCLUDING BUT NOT LIMITED TO SEWER, WATER, POWER, NBN, FIRE MAINS, SPRINKLER MAINS AND ASSOCIATED INFRASTRUCTURE TO SERVICE THE LOTS.

EARTHWORKS

1. AT THE COMMENCEMENT OF THE CUT AND FILLING OPERATIONS FOR BULK EARTHWORKS A GEOTECHNICAL ENGINEER IS TO VISIT THE SITE & CONFIRM THE SUITABILITY OF THE METHODOLOGY OF ACHIEVING THE REQUIRED BUILDING PLATFORMS AND COMPACTION REQUIREMENTS. SUBSEQUENTLY, THE HEAD CONTRACTOR IS TO CONFIRM, IN WRITING TO THE DESIGNING CIVIL & STRUCTURAL ENGINEERS, THAT THE METHODOLOGY APPROVED AT THE TIME OF THE GEOTECHNICAL ENGINEERS VISIT WAS MAINTAINED DURING ALL THE BULK EARTHWORKS PROCESS.
2. WHERE FILLING, STRUCTURAL SLABS OR PAVEMENTS ARE REQUIRED, PROOF ROLL THE EXPOSED NATURAL SURFACE WITH A MINIMUM OF TEN PASSES OF A SMOOTH DRUM VIBRATING ROLLER (MINIMUM STATIC WEIGHT OF 10 TONNES) TO DETECT THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 2mm MOVEMENT UNDER ROLLER) IN THE PRESENCE OF THE SUPERINTENDENT. THE CONTRACTOR IS TO ALLOW TO REMOVE AND REPLACE A PROVISIONAL QUANTITY OF UNSUITABLE SUBGRADE MATTER. THE UNDERLYING GEOTECHNICAL GROUND CONDITIONS WILL BE REHABILITATED AS NECESSARY TO SUPPORT FUTURE BUILDING USE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERS REQUIREMENTS.
3. ALL SOFT, WET OR UNSUITABLE MATERIAL IS TO BE REMOVED AS DIRECTED BY THE SUPERINTENDENT AND REPLACED WITH APPROVED MATERIAL SATISFYING THE REQUIREMENTS LISTED BELOW.
4. EXCAVATED MATERIAL IS NOT TO BE USED AS STRUCTURAL FILL UNLESS APPROVED BY THE GEOTECHNICAL ENGINEER.

   THE CONTRACTOR IS TO PROVIDE CERTIFICATES VERIFYING THE QUALITY OF IMPORTED MATERIAL FOR THE SUPERINTENDENTS APPROVAL.
5. ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM 200mm THICK LAYERS AND COMPACTED AT OPTIMUM MOISTURE CONTENT (+ OR - 2%) TO ACHIEVE A DRY DENSITY DETERMINED IN ACCORDANCE WITH AS1289 E3.1 OF NOT LESS THAN THE FOLLOWING STANDARD MINIMUM DRY DENSITY IN ACCORDANCE WITH AS1289 E5.1.1.1:

LOCATION	COMPACTION REQUIREMENT
UNDER BUILDING SLABS	98% SMDD
LANDSCAPED AREAS	95% SMDD
ROADS & PAVED AREAS	98% SMDD

6. FOR NON COHESIVE MATERIAL, COMPACT TO NOT LESS THAN

UNDER ROAD	80% DENSITY
OTHER AREA	75% DENSITY

7. THE CONTRACTOR IS TO ALLOW FOR COMPACTION TESTING BY NATA REGISTERED LABORATORY FOR PLATFORMS AND FILL LAYERS IN ACCORDANCE WITH THE LATEST VERSION OF AS3798 - FOR TYPE 1 OPERATIONS (MINIMUM 3 TESTS PER LAYER).
8. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN:
   A. 1 TEST PER 200m^3 OF FILL PLACED PER 300mm LAYER OF FILL
   B. 3 TESTS PER VISIT
   C. 1 TEST PER 1000m² OF EXPOSED SUBGRADE
   D. TESTING SHALL BE "LEVEL 1" UNDERTAKEN IN ACCORDANCE WITH AS1398.
10. WHERE TEST RESULTS ARE BELOW THE SPECIFIED COMPACTION, RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION STANDARD IS ACHIEVED.
11. ALLOW FOR EXCAVATION IN ALL MATERIALS AS FOUND U.N.O. NO ADDITIONAL PAYMENTS WILL BE MADE FOR EXCAVATION IN WET OR HARD GROUND.
12. WHERE THERE IS INSUFFICIENT EXCAVATED MATERIAL SUITABLE FOR FILLING OR SUBGRADE REPLACEMENT, THE CONTRACTOR IS TO ALLOW TO IMPORT FILL. IMPORTED FILL SHALL COMPLY WITH THE FOLLOWING:
   A. MAXIMUM SIZE 50mm. PASSING 75 MICRON SIEVE (<25%).
   B. PLASTICITY INDEX BETWEEN 2-15% AND CBR>8.
   C. FREE FROM ORGANIC AND PERISHABLE MATTER.
13. REFER TO THE SITE SPECIFIC GEOTECHNICAL REPORT FOR GENERAL REQUIREMENTS ON SITE PREPARATION AND RE-USE OF EXISTING SITE MATERIAL AS ENGINEERED FILL.
14. THE CONTRACTOR SHALL PROGRAM THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS, ROLLER MARKS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS SHALL BE RECTIFIED AT THEIR COST.
15. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE AND MAINTAIN THE INTEGRITY OF ALL SERVICES, CONDUITS AND PIPES DURING CONSTRUCTION, SPECIFICALLY DURING THE BACKFILLING AND COMPACTION PROCEDURE. ANY AND ALL DAMAGE TO NEW OR EXISTING SERVICES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXTRA COST.

STORMWATER DRAINAGE NOTES

1. STORMWATER DESIGN CRITERIA:
   (A) ANNUAL EXCEEDANCE PROBABILITIES (AEP):
   5% MINOR (PIPED) NETWORK
   1% MAJOR (OVERLAND FLOW) SYSTEM
   (B) RAINFALL INTENSITIES:
   ARR 1987 RAINFALL FROM BUREAU OF METEOROLOGY WEBSITE
   (C) HYDROLOGIC METHOD:
   DRAINS / 12D WITH ILSAX METHOD
2. PIPES 375 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
3. PIPES 300 DIA AND LESS SHALL BE DWV GRADE (CLASS SN8) uPVC WITH SOLVENT WELDED JOINTS.
4. EQUIVALENT STRENGTH FRC PIPES MAY BE USED.
5. ALL PIPES ARE TO BE UNIFORMLY SUPPORTED ALONG THE LENGTH OF THE BARREL BY SUITABLE FILL MATERIAL.
6. PIPES WITH SOCKETS SHALL BE LAID IN BEDDING WHERE SUITABLE RECESSES HAVE BEEN PROVIDED TO ENSURE PIPES DO NOT BEAR ON THEIR SOCKETS.
7. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE PN6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
8. PIPES TO BE INSTALLED TO TYPE HS2 SUPPORT IN ACCORDANCE WITH AS 3725 (2007) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75).
9. REFER TO AS/NRS 3725:2007 TABLE B1 FOR REQUIRED FILL DEPTHS ABOVE PIPE BARREL PRIOR TO USE OF COMPACTION MACHINERY OR TRAVERSING OF PIPES BY GENERAL SITE EQUIPMENT.
10. WHERE WORKING METHODS REQUIRE HIGHER CLASS PIPE, THE CONTRACTOR SHALL REFER TO AS 3725 (2007) TO DETERMINE THE APPROPRIATE PIPE CLASS. PROPOSED PIPE CLASS SHALL BE REVIEWED BY ENSPIRE SOLUTIONS PRIOR TO INSTALLATION.
11. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS/NZS 3500.3:2015.
12. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY ENSPIRE SOLUTIONS.
13. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
14. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
15. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
16. GRATES AND COVERS SHALL CONFORM TO AS 3996.
17. ALL BOX CULVERTS SHALL BE STRUCTURALLY DESIGNED BY THE MANUFACTURER AND DELIVERED TO SITE AS FIT FOR PURPOSE.
18. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
19. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

KERBS

1. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 175mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 5.2.1).
2. EXPANSION JOINTS (E.J) TO BE FORMED FROM 10mm COMPRESSIBLE FOAM FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
3. WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
4. EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB AND GUTTER WITH 100mm DIA HOLE OR IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS.
5. IN THE REPLACEMENT OF KERB AND GUTTER :-
   EXISTING ROAD PAVEMENT IS TO BE SAWCUT 600mm U.N.O FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 600mm WIDE U.N.O.

CONCRETE

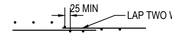
1. THIS SECTION REFERS TO CIVIL CONCRETE WORKS AND DOES NOT INCLUDE BUILDINGS OR BRIDGE STRUCTURES.
2. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
3. CONCRETE QUALITY;
   ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	AS 3600 F'c MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE	MAX 56 DAY DRYING SHRINKAGE
KERBS AND PATHS	25	60	20	650um
PITS AND VEHICULAR PAVEMENTS	32	80	20	650um

4. CONCRETE PROPERTIES FOR SLABS AND BEAMS SHALL BE VARIED FROM NORMAL CLASS AS FOLLOWS:
   A. MINIMUM CEMENT CONTENT 250kg/m3
   B. MAXIMUM 56 DAY SHRINKAGE STRAIN = AS NOMINATED ABOVE
   C. PRIOR TO COMMENCEMENT CONCRETE SUPPLIER TO PROVIDE DRYING SHRINKAGE TEST RESULTS FROM PRODUCTION ASSESSMENT AS EVIDENCE THAT SPECIFIED DRYING SHRINKAGE LIMITS CAN BE ACHIEVED USING NORMAL MIX DESIGN.
5. CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL
6. PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.
7. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY THE DESIGN ENGINEER.
8. CLEAR CONCRETE COVERS SHALL BE (UNO):

ENVIRONMENT	COVER
A. SURFACES OF MEMBERS CAST AGAINST, AND IN CONTACT WITH THE GROUND	50mm
B. SURFACES OF MEMBERS CAST AGAINST, AND IN CONTACT WITH THE GROUND SEPARATED BY MEMBRANE	40mm
C. SURFACES OF MEMBERS IN ABOVE GROUND EXTERIOR ENVIRONMENTS	40mm
D. SURFACES OF MEMBERS IN INTERIOR ENVIRONMENTS	20mm

9. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
10. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS.
11. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

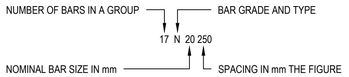


FOLLOWING THE FABRIC SYMBOL SL IS THE REFERENCE NUMBER FOR FABRIC TO AS 1304.

12. ALL PENETRATIONS TO HAVE 2/N12 TRIMMER BARS TOP AND BOTTOM TO EACH FACE U.N.O. EXTEND TRIMMERS 700 BEYOND PENETRATION.
13. FORMWORK CLASS SHALL BE IN ACCORDANCE WITH AS380.
14. SURFACE FINISHES:

ELEMENT	FORMWORK CLASS
STORMWATER PIT	OFF FORM
PAVEMENTS	MACHINE FLOAT/BROOM FINISHED
KERBS	STEEL FLOAT/TROWEL

15. REINFORCEMENT SYMBOLS:
    N DENOTES GRADE 450 N BARS TO AS 1302 GRADE N
    R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 1302
    SL DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS 1304



NSW GOVERNMENT

Department of Planning, Housing and Infrastructure

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Signed: DN

Sheet No: 1 of 34

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2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale:

North:

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Project: NEPEAN BUSINESS PARK
PENRITH

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First Issue Date: 04/12/2024

Status: FOR APPROVAL
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Title: GENERAL NOTES AND LEGENDS
SHEET 1

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SITEWORKS

1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS, SPECIFICATIONS AND AUSTRALIAN STANDARDS. CONFLICTS SHALL BE REFERRED TO THE SUPERINTENDENT FOR DIRECTION.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO THE DESIGN ENGINEER.
3. THE CONTRACTOR IS TO DESIGN, OBTAIN APPROVALS AND CARRY OUT REQUIRED TEMPORARY TRAFFIC CONTROL PROCEDURES DURING CONSTRUCTION IN ACCORDANCE WITH RMS AND LOCAL AUTHORITY REGULATIONS AND REQUIREMENTS.
4. THE CONTRACTOR IS TO OBTAIN ALL AUTHORITY APPROVALS AS REQUIRED.
5. RESTORE ALL PAVED, COVERED, GRASSED AND LANDSCAPED AREAS TO THEIR ORIGINAL CONDITION ON COMPLETION OF WORKS.
6. ON COMPLETION OF ANY TRENCHING WORKS, ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL, GRASSED AREAS AND ROAD PAVEMENTS.
7. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO LODGMENT OF TENDER AND ON SITE WORKS. THE PRICE AS TENDERED SHALL BE INCLUSIVE OF ALL WORKS SHOWN ON THE TENDER PROJECT DRAWINGS. ADDITIONAL PAYMENTS FOR WORKS SHOWN ON THE TENDER PROJECT DRAWINGS WILL NOT BE APPROVED.
9. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS AND SPECIFICATIONS, AND ANY OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED RELATING TO DEVELOPMENT OF THE SUBJECT SITE.
10. 14. THESE PLANS SHALL BE READ IN CONJUNCTION WITH ALL APPROVED DRAWINGS AND SPECIFICATIONS PREPARED BY OTHER PROJECT CONSULTANTS.
11. 10. DO NOT OBTAIN DIMENSIONS BY SCALING THE DRAWINGS. ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND ALL LEVELS ARE IN METERS (m), UNO. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
12. 11. IN CASE OF DOUBT OR DISCREPANCY REFER TO THE DESIGN ENGINEER AND SUPERINTENDENT FOR CLARIFICATION OR CONFIRMATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. OTHERWISE THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REMEDIATION WORKS.
13. 12. WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
14. THE CONTRACTOR SHALL COMPLY WITH ALL STATUTORY AND INDUSTRIAL REQUIREMENTS FOR PROVISION OF A SAFE WORKING ENVIRONMENT INCLUDING TRAFFIC CONTROL.
15. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES ACCESS TO ALL BUILDINGS ADJACENT THE WORKS IS NOT DISRUPTED.
16. WHERE NECESSARY THE CONTRACTOR SHALL PROVIDE SAFE PASSAGE OF VEHICLES AND/OR PEDESTRIANS THROUGH OR BY THE SITE.
17. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.
18. ALL VARIATIONS TO SPECIFIED PRODUCTS OR DESIGNS SHALL BE REFERRED TO THE DESIGN ENGINEER IN WRITING FOR APPROVAL.
19. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
    - A. PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
    - B. ENSURING THAT NOTHING IS NAILED TO THEM
    - C. PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS:
        - C.a. ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER
        - C.b. A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH
        - C.c. CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.
20. EPA AND COUNCIL REQUIREMENTS MUST BE ADHERED TO REGARDING THE LEVEL OF NOISE AND WORKING HOURS, TO ENSURE THAT RESIDENTS AND OTHER APPLICABLE NEIGHBOURS TO THE SITE ARE NOT DISTURBED UNREASONABLY. THE GENERATION OF NOISE MUST BE MINIMISED.

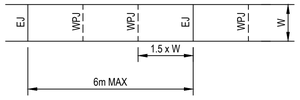
PAVEMENTS

1. ALL PAVEMENT MATERIALS SHALL COMPLY WITH CURRENT RTA SPECIFICATIONS. PROVIDE MECHANICAL ANALYSIS FOR EACH BATCH OF PAVEMENT MATERIAL TO ENSURE CONFORMITY.
2. COMPACTION STANDARDS:
    - A) BASE: 98% MODIFIED MAXIMUM DRY DENSITY
    - B) SUBBASE: 95% MODIFIED MAXIMUM DRY DENSITY
3. THE CONTRACTOR SHALL CONFIRM THE DESIGN CBR WITH A MINIMUM OF 3 TESTS TAKEN AT SUBGRADE LEVEL. WHERE DISCREPANCY IS FOUND, CONTACT THE DESIGNING ENGINEER.
4. ALLOW FOR COMPACTION TESTING BY NATA REGISTERED LABORATORY FOR: BASE LAYER, SUBBASE LAYER, SUBGRADE IN ACCORDANCE WITH THE LATEST VERSION OF AS3798 FOR PAVEMENTS. ALLOW FOR AT LEAST TWO SUCCESSFUL COMPACTION TESTS IN EACH LAYER.
5. MATCH NEW PAVEMENT LAYERS NEATLY AND FLUSH WITH EXISTING WHERE REQUIRED.
6. KEY NEW BASE AND SUBBASE LAYERS INTO EXISTING WITH 150mm WIDE STEPS. ASPHALTIC CONCRETE WAERING COURSE IS TO EXTEND 150mm (MIN) PAST BASECOURSE INTERFACE.
7. TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MIN 50mm IN BITUMINOUS PAVING.
8. ALL ASPHALTIC CONCRETE (AC) WORK TO BE PREPARED AND CARRIED OUT IN ACCORDANCE WITH GOOD ASPHALTIC PAVING PRACTICE AS DESCRIBED IN AS2734-1994 "ASPHALT (HOT-MIXED) PAVING - GUIDE TO GOOD PRACTICE" AND CURRENT RMS SPECIFICATIONS (R116).
9. WHERE NOMINATED, THE CONTRACTOR SHALL ALLOW FOR ALL COMPONENTS OF PROPRIETARY JOINTING SYSTEMS INCLUDING FIXING, TEMPLATES & PEGGING TO ENSURE THAT ALL DOWEL BARS REMAIN IN THE CORRECT ALIGNMENT AND POSITION.
10. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S. FORM 3051, COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m^3 OF BASECOURSE MATERIAL PLACED.
11. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S. FORM 3051, AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m^3 OF SUB-BASE COURSE MATERIAL PLACED.
12. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH R.M.S. FORM 3051 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF THE DESIGN ENGINEER.
13. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.

PAVEMENT JOINTS

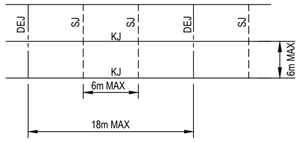
PEDESTRIAN PAVEMENTS

1. ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS U.N.O ON THE DESIGN DRAWINGS.
2. EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX. 6.0m CENTRES.
3. WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX. SPACING OF 1.5 x WIDTH OF THE PAVEMENT.
4. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND OR ADJACENT PAVEMENT JOINTS.
5. TYPICAL PEDESTRIAN PAVEMENT JOINT DETAIL.



VEHICULAR PAVEMENTS

6. ALL VEHICULAR PAVEMENTS TO BE JOINTED AS FOLLOWS U.N.O ON THE DESIGN DRAWINGS.
7. TIED KEYED CONSTRUCTION JOINTS SHOULD GENERALLY BE LOCATED LONGITUDINALLY AT A MAX OF 6.0m CENTRES
8. SAWN JOINTS SHOULD GENERALLY BE LOCATED LATERALLY AT A MAX OF 6.0m CENTRES WITH DOWELED EXPANSION JOINTS AT MAX 30.0m CENTRES
9. TYPICAL VEHICULAR PAVEMENT JOINT DETAIL.



10. PROVIDE 10mm EXPANSION FOAM BETWEEN NEW CONRETE WORKS AND EXISTING STRUCTURES.
11. LOCAL AUTHORITY REQUIREMENTS SHALL TAKE PRECEDENCE WITHIN THE PUBLIC ROAD RESERVE.
12. DOWELS TO BE PLACED ON PROPRIETARY CRADLES TO ENSURE CORRECT SPACING AND ALIGNMENT.

Department of Planning, Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 2 of 34

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale:

North:

Enspire Solutions Pty Ltd
Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project: NEPEAN BUSINESS PARK
PENRITH

Title: GENERAL NOTES AND LEGENDS
SHEET 2

Scale:

First Issue Date: 04/12/2024

Size: A1

Datum: AHD

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C01.22

Revision: 2

DATE PLOTTED: 26 February 2025 4:27 PM BY: JOSEPH SHELAYMOON

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C01.21-C01.22 GENERAL NOTES AND LEGENDS.dwg

Department of Planning, Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 3 of 34

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF	APPD.
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale: 0 50 100 150 200m — SCALE 1:2000 @A1

North

enspire
Enspire Solutions Pty Ltd
Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135
enspiresolutions.com.au

Project: NEPEAN BUSINESS PARK
PENRITH

Title: STAGING PLAN

Scale: 1:2000

First Issue Date: 04/12/2024

Size: A1

Datum: AHD

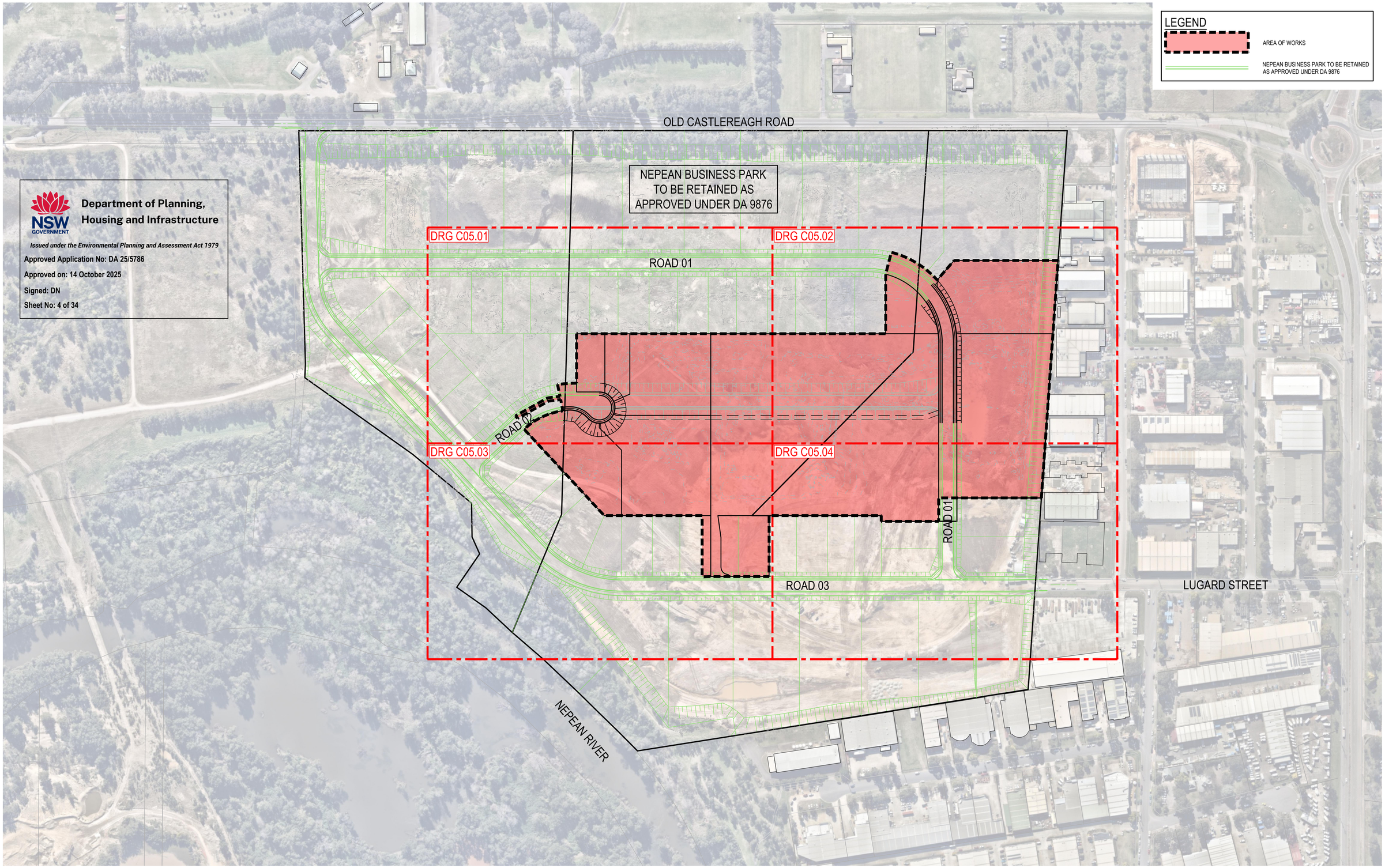
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C01.31

Revision: 3

DATE PLOTTED: 26 February 2025 4:27 PM BY : JOSEPH SHELAYMOON

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C01.31 STAGING PLAN.dwg



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Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 4 of 34

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
4	15/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		AL
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale: 0 50 100 150 200m — SCALE 1:2000 @A1

North

enspire
Enspire Solutions Pty Ltd
Level 7, 54 Miller Street, North Sydney NSW 2060
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Phone: 02 9922 6135 enspiresolutions.com.au

Project: NEPEAN BUSINESS PARK PENRITH

Title: GENERAL ARRANGEMENT PLAN

Scale: 1:2000

First Issue Date: 04/12/2024

Size: A1

Datum: AHD

Status: FOR APPROVAL — NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C01.41

Revision: 4

DATE PLOTTED: 15 August 2025 2:34 PM BY: JOSEPH SHELAYMOON

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C01.41 GENERAL ARRANGEMENT PLAN.dwg

Department of Planning, Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 5 of 34

OLD CASTLREAGH ROAD

ROAD 01

ROAD 02

ROAD 03

LUGARD STREET

EASEMENT TO DRAIN WATER 5m WIDE

SEE INSET A

95 2847.34m²

96 10170.24m²

47 19020.69m²

56 2114.39m²

55 2032.89m²

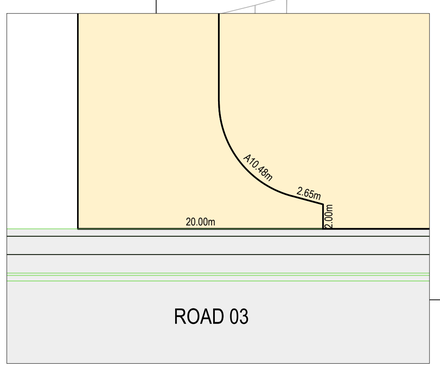
54 8831.69m²

52 7320.94m²

53 12042.13m²

46 54352.04m²

48 3770.37m²



INSET A

SCALE 1:250

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF	APPD.
5	28/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	GAP	AL		AL
4	15/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		AL
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale: 0 5 10 15 20 25m — SCALE 1:250 @A1

0 50 100 150 200m — SCALE 1:2000 @A1

North

Enspire Solutions Pty Ltd
Level 7, 54 Miller Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project: NEPEAN BUSINESS PARK PENRITH

Title: SUBDIVISION PLAN

Scale: AS SHOWN

First Issue Date: 04/12/2024

Size: A1

Datum: AHD

Status: FOR APPROVAL — NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C01.81

Revision: 5

DATE PLOTTED: 28 August 2025 1:41 PM BY : ANTHONY PACIBEN

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C01.81 SUBDIVISION PLAN.dwg

Department of Planning, Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 6 of 34

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
5	28/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	GAP	AL		AL
4	15/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		AL
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale: 0 50 100 150 200m — SCALE 1:2000 @A1

North

Enspire Solutions Pty Ltd
Level 7, 54 Miller Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project: NEPEAN BUSINESS PARK
PENRITH

Title: COMMUNITY TITLE SUBDIVISION PLAN

Scale: 1:2000

First Issue Date: 04/12/2024

Size: A1

Datum: AHD

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C01.91

Revision: 5

DATE PLOTTED: 28 August 2025 1:41 PM BY - ANTHONY PACIBEN

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C01.91 COMMUNITY TITLE SUBDIVISION PLAN.dwg

Department of Planning, Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 7 of 34

NEPEAN BUSINESS PARK TO BE RETAINED AS APPROVED UNDER DA 9876

LEGEND

- SEDIMENT FENCE (SD 6-8)
- SEDIMENT TRAP FOR KERB INLET (ON GRADE - SANDBAG)
- SEDIMENT TRAP FOR KERB INLET (AT LOW POINT - SANDBAG)
- GEOTEXTILE INLET FILTER (SD 6-12)

ROAD 01

ROAD 02

ROAD 03

LUGARD STREET

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
5	28/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	GAP	AL		AL
4	15/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		AL
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale: 0 20 40 60 80 100m — SCALE 1:1000 @A1

North

Enspire Solutions Pty Ltd
Level 7, 54 Miller Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project: NEPEAN BUSINESS PARK
PENRITH

Title: EROSION AND SEDIMENTATION CONTROL PLAN

Scale: 1:1000

First Issue Date: 04/12/2024

Size: A1

Datum: AHD

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C03.01

Revision: 5

DATE PLOTTED: 28 August 2025 1:41 PM BY : ANTHONY PACIBEN

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C03.01 EROSION AND SEDIMENTATION CONTROL PLAN.dwg

Department of Planning, Housing and Infrastructure

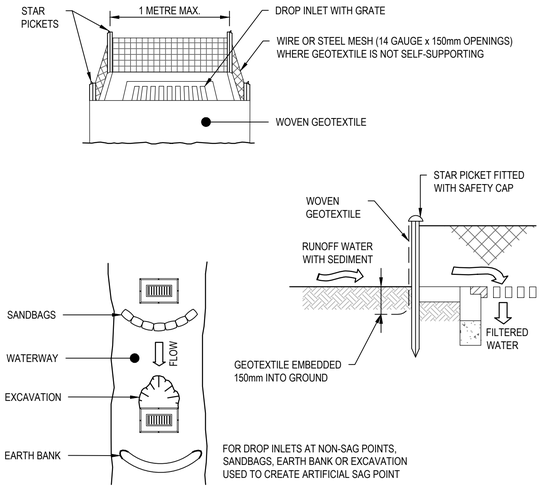
Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

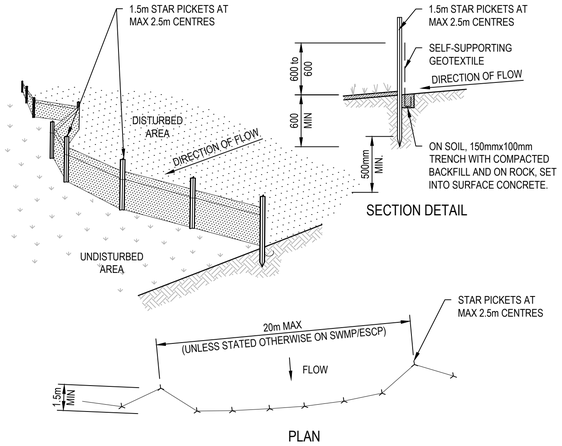
Sheet No: 8 of 34



CONSTRUCTION NOTES

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

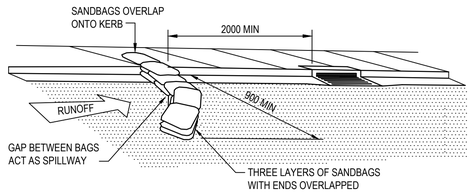
GEOTEXTILE INLET FILTER (SD 6-12)



CONSTRUCTION NOTES

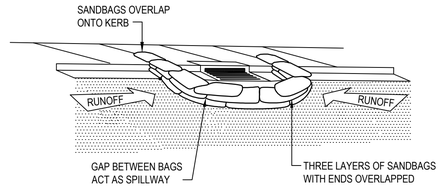
1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE (SD 6-8)



SEDIMENT TRAP FOR KERB INLET (ON GRADE - SANDBAG)

NOT TO SCALE



SEDIMENT TRAP FOR KERB INLET (AT LOW POINT - SANDBAG)

NOT TO SCALE

NOTE

REFER TO APPROVED DA 9876 FOR OVERALL SEDIMENT CONTROL AND SEDIMENT BASINS DETAILS.

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF	APPD.
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale:

North:

Enspire Solutions Pty Ltd
Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135

Project: NEPEAN BUSINESS PARK PENRITH

Title: EROSION AND SEDIMENTATION CONTROL DETAILS

Scale:

Date: 04/12/2024

Size: A1

Datum: AHD

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C03.21

Revision: 2

DATE PLOTTED: 26 February 2025 4:28 PM BY: JOSEPH SHELAYMOON

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C03.21 EROSION AND SEDIMENTATION CONTROL DETAILS.dwg

Department of Planning, Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 9 of 34

CUT AND FILL VOLUMES

1. REFER SPECIFICATION NOTES FOR GENERAL EARTHWORKS REQUIREMENTS.
2. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL/RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
3. NO ALLOWANCE HAS BEEN MADE FOR BULKING FACTORS. NOTE ALL VOLUMES DEPICTED ARE SOLID VOLUMES ONLY AND MAY NOT REFLECT DETAILED EARTHWORKS.
4. NO ALLOWANCE HAS BEEN MADE FOR DETAILED EARTHWORKS. ie SERVICE TRENCHING, DETAILED EXCAVATION AND THE LIKE.
5. ESTIMATED EARTHWORKS VOLUMES REPRESENT ANALYSIS BETWEEN APPROVED BULK SURFACE UNDER DA 9876 AND BULK EARTHWORKS DESIGN LEVEL. BULK EARTHWORKS LEVELS INCLUDE ROAD BOXING AND ALLOWS FOR NO TOP SOIL.
6. EARTHWORKS VALUES AS FOLLOWS:

   6.1. CUT: 2,116m^3
   6.2. FILL: 10,355m^3
   6.3. BALANCE: 8,239m^3 (APPROX.)

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale: 0 50 100 150 200m — SCALE 1:2000 @A1

North

Enspire Solutions Pty Ltd
Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project: NEPEAN BUSINESS PARK
PENRITH

Title: BULK EARTHWORKS CUT AND FILL PLAN

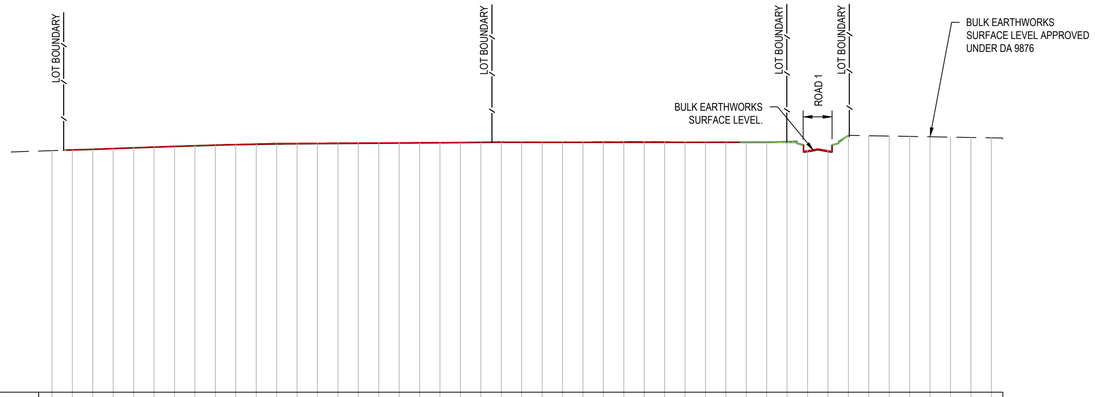
Scale: 1:2000
First Issue Date: 04/12/2024
Size: A1
Datum: AHD

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C04.01
Revision: 3

DATE PLOTTED: 26 February 2025 4:29 PM BY : JOSEPH SHELAYMOON

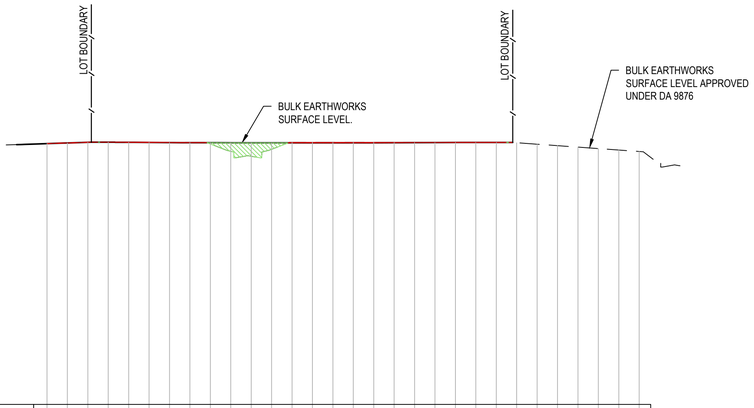
CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C04.01 BULK EARTHWORKS CUT AND FILL PLAN.dwg



DATUM RL 10.0

CHAINAGE	APPROVED BULK SURFACE LEVEL UNDER DA 9876	PROPOSED BULK SURFACE LEVEL
0.00	29.72	
10.00	29.77	29.77
20.00	29.83	29.82
30.00	29.89	29.88
40.00	29.95	29.94
50.00	30.01	30.01
60.00	30.07	30.06
70.00	30.12	30.11
80.00	30.17	30.17
90.00	30.22	30.21
100.00	30.28	30.24
110.00	30.32	30.26
120.00	30.33	30.27
130.00	30.34	30.29
140.00	30.34	30.30
150.00	30.35	30.31
160.00	30.36	30.32
170.00	30.37	30.34
180.00	30.37	30.35
190.00	30.38	30.36
200.00	30.39	30.37
210.00	30.40	30.39
220.00	30.40	30.40
230.00	30.41	30.40
240.00	30.42	30.40
250.00	30.42	30.40
260.00	30.43	30.40
270.00	30.44	30.40
280.00	30.44	30.40
290.00	30.45	30.40
300.00	30.44	30.40
310.00	30.43	30.40
320.00	30.42	30.40
330.00	30.41	30.40
340.00	30.40	30.40
350.00	30.39	30.40
360.00	30.34	30.43
370.00	29.72	29.63
380.00	29.73	29.64
390.00	30.92	30.93
400.00	30.93	
410.00	30.90	
420.00	30.87	
430.00	30.85	
440.00	30.82	
450.00	30.79	
460.00	30.76	

SECTION A
C04.01
HORIZONTAL SCALE 1:1500@A1
VERTICAL SCALE 1:250@A1



DATUM RL 9.0

CHAINAGE	APPROVED BULK SURFACE LEVEL UNDER DA 9876	PROPOSED BULK SURFACE LEVEL
0.00	30.28	30.28
10.00	30.34	30.34
20.00	30.39	30.39
30.00	30.40	30.40
40.00	30.39	30.39
50.00	30.39	30.38
60.00	30.38	30.36
70.00	30.38	30.36
80.00	30.25	30.35
90.00	29.65	30.35
100.00	29.25	30.35
110.00	29.82	30.34
120.00	30.37	30.34
130.00	30.37	30.34
140.00	30.37	30.34
150.00	30.37	30.34
160.00	30.37	30.34
170.00	30.37	30.35
180.00	30.37	30.36
190.00	30.37	30.37
200.00	30.37	30.37
210.00	30.37	30.37
220.00	30.37	30.37
230.00	30.35	
240.00	30.23	
250.00	30.11	
260.00	29.99	
270.00	29.87	
280.00	29.76	
290.00	29.64	

SECTION B
C04.01
HORIZONTAL SCALE 1:1500@A1
VERTICAL SCALE 1:250@A1

Department of Planning, Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 10 of 34

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale: 0 5 10 15 20 25m — SCALE 1:250 @A1; 0 50 100 150m — SCALE 1:1500 @A1

North

enspire
Enspire Solutions Pty Ltd
Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project: NEPEAN BUSINESS PARK PENRITH

Title: BULK EARTHWORKS CUT AND FILL SECTONS

Scale: AS SHOWN
First Issue Date: 04/12/2024
Size: A1
Datum: AHD

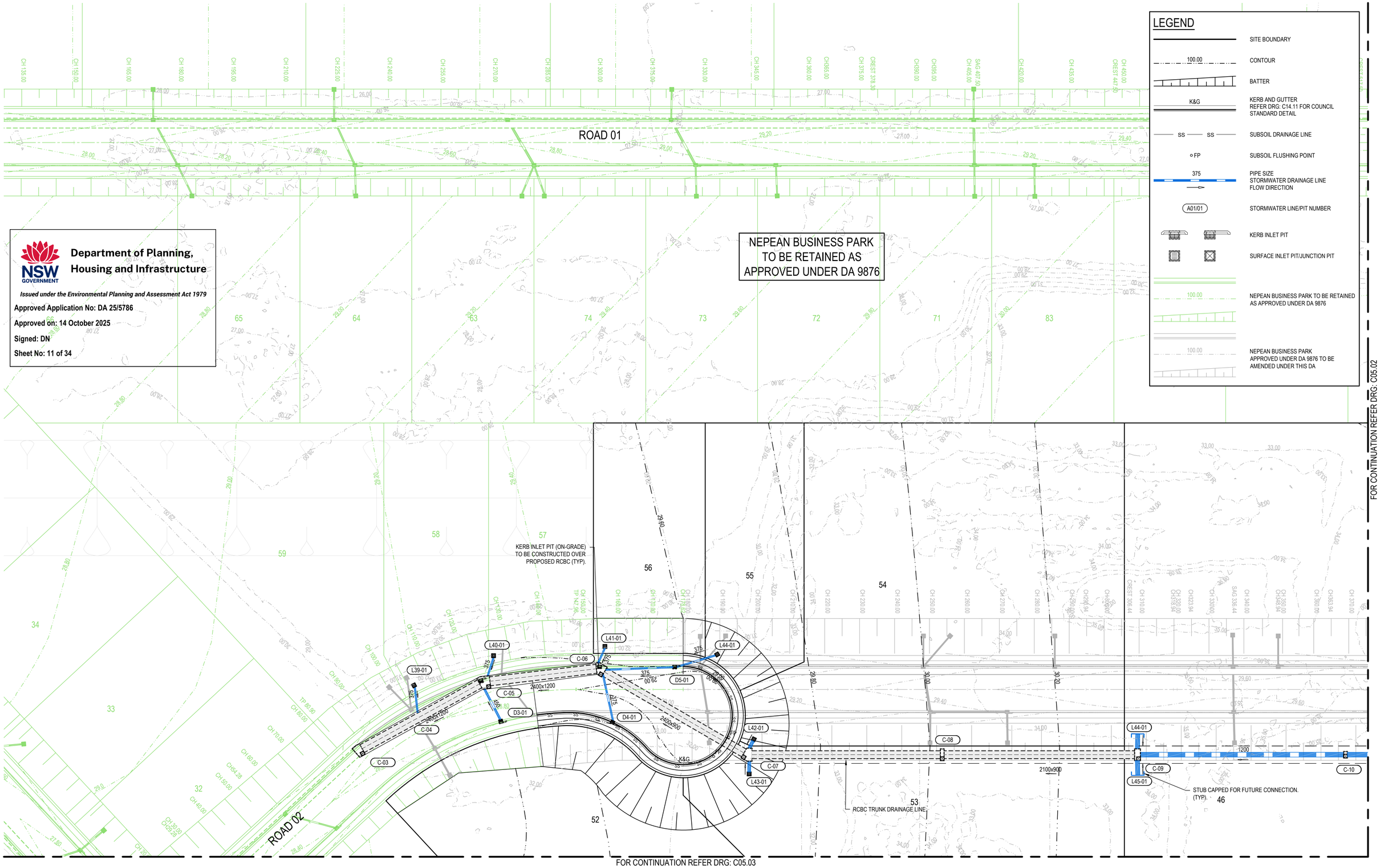
Status: FOR APPROVAL — NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C04.21

Revision: 2

DATE PLOTTED: 26 February 2025 4:29 PM BY: JOSEPH SHELAYMOON

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C04.21 BULK EARTHWORKS CUT AND FILL SECTIONS.dwg



Department of Planning, Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 11 of 34

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
5	28/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	GAP	AL		AL
4	15/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		AL
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale: 0 10 20 30 40 50m — SCALE 1:500 @A1

North

Enspire Solutions Pty Ltd
Level 7, 54 Miller Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project: NEPEAN BUSINESS PARK
PENRITH

Title: SITEWORKS AND STORMWATER MANAGEMENT PLAN
SHEET 1

Scale: 1:500
First Issue Date: 04/12/2024
Size: A1
Datum: AHD

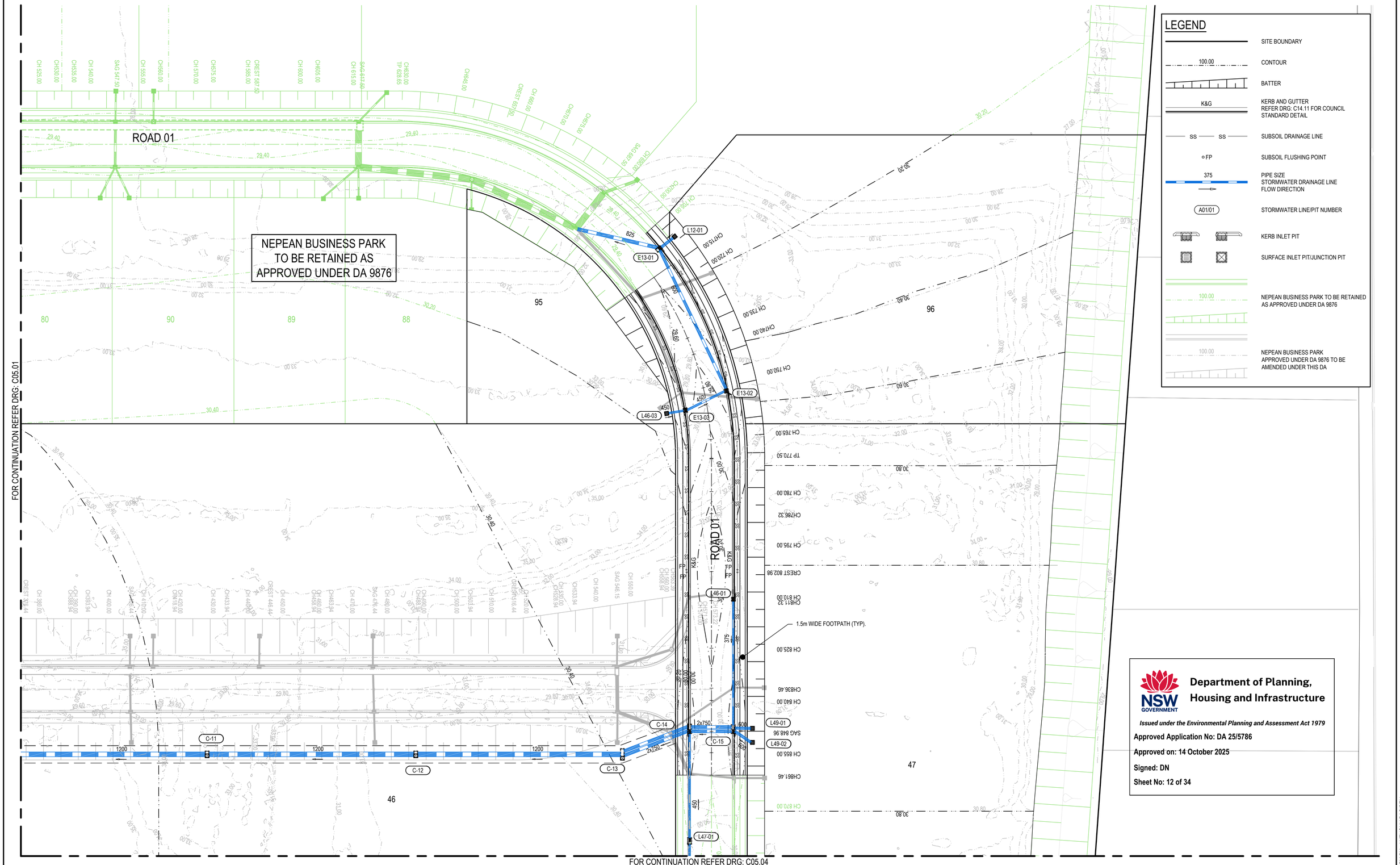
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C05.01

Revision: 5

DATE PLOTTED: 28 August 2025 1:42 PM BY - ANTHONY PACIBEN

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C05.01-C05.04 SITEWORKS AND STORMWATER MANAGEMENT PLAN.dwg



LEGEND

- SITE BOUNDARY
- 100.00 — CONTOUR
- BATTER
- K&G — KERB AND GUTTER REFER DRG: C14.11 FOR COUNCIL STANDARD DETAIL
- SS — SS — SUBSOIL DRAINAGE LINE
- FP — SUBSOIL FLUSHING POINT
- 375 — PIPE SIZE STORMWATER DRAINAGE LINE FLOW DIRECTION
- A01/01 — STORMWATER LINE/PIT NUMBER
- KERB INLET PIT
- SURFACE INLET PIT/JUNCTION PIT
- 100.00 — NEPEAN BUSINESS PARK TO BE RETAINED AS APPROVED UNDER DA 9876
- 100.00 — NEPEAN BUSINESS PARK APPROVED UNDER DA 9876 TO BE AMENDED UNDER THIS DA

Department of Planning, Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 12 of 34

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
4	28/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	GAP	AL		AL
3	15/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		AL
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale: 0 10 20 30 40 50m — SCALE 1:500 @A1

North

enspire
Enspire Solutions Pty Ltd
Level 7, 54 Miller Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project: NEPEAN BUSINESS PARK
PENRITH

Title: SITEWORKS AND STORMWATER MANAGEMENT PLAN
SHEET 2

Scale: 1:500
First Issue Date: 04/12/2024
Size: A1
Datum: AHD

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

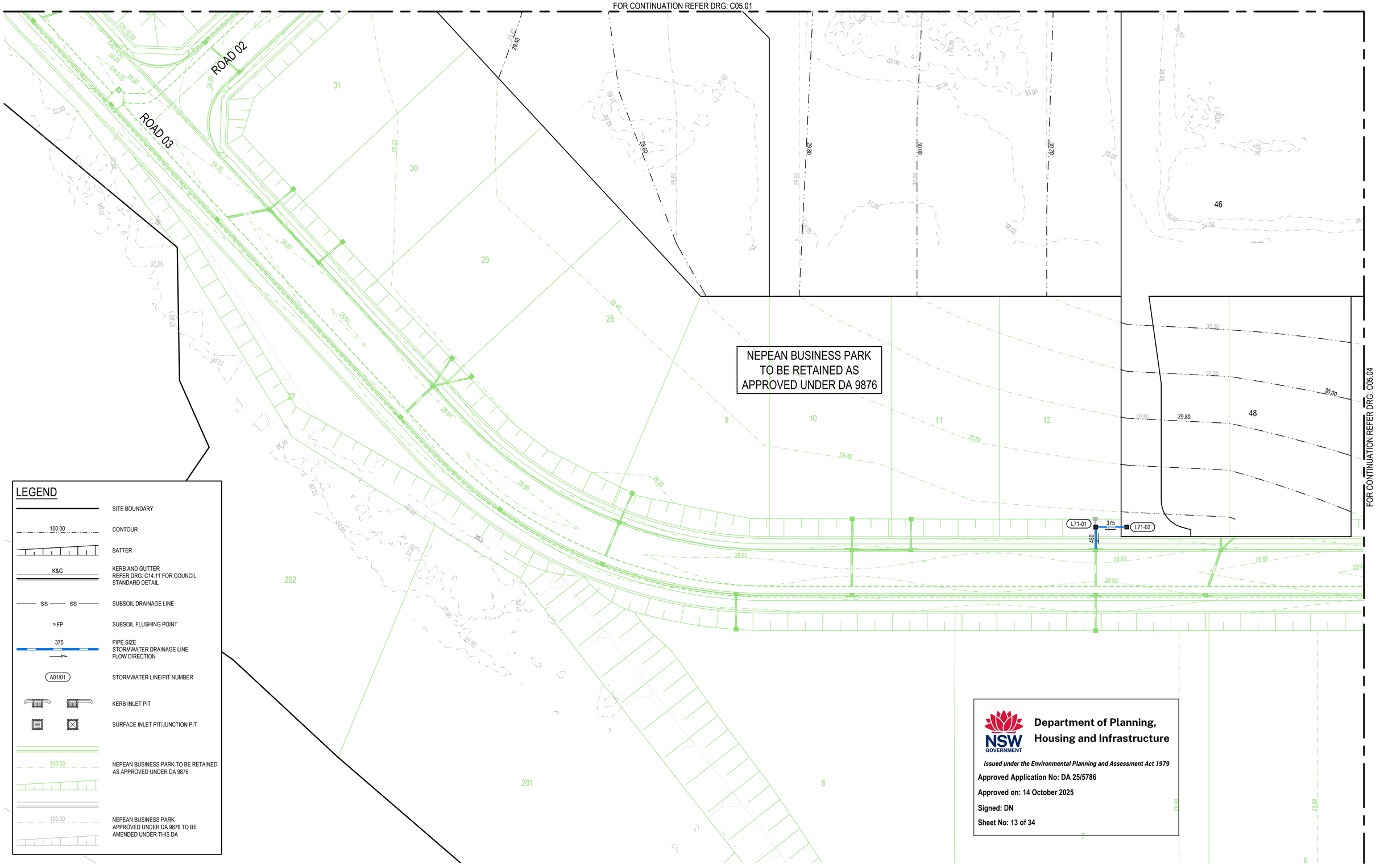
Project Number/Drawing Number: 200044-09-DA-C05.02

Revision: 4

DATE PLOTTED: 28 August 2025 1:42 PM BY - ANTHONY PACIBEN

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C05.01-C05.04 SITEWORKS AND STORMWATER MANAGEMENT PLAN.dwg

FOR CONTINUATION REFER DRG: C05.01



FOR CONTINUATION REFER DRG: C05.04

LEGEND

- SITE BOUNDARY
- 100.00 — CONTOUR
- BATTER
- K&G — KERB AND GUTTER REFER DRG: C14.11 FOR COUNCIL STANDARD DETAIL
- SS — SS — SUBSOIL DRAINAGE LINE
- FP — SUBSOIL FLUSHING POINT
- 375 — PIPE SIZE STORMWATER DRAINAGE LINE FLOW DIRECTION
- A01/01 — STORMWATER LINE/PIT NUMBER
- KERB INLET PIT
- SURFACE INLET PIT/JUNCTION PIT
- 100.00 — NEPEAN BUSINESS PARK TO BE RETAINED AS APPROVED UNDER DA 9876
- 100.00 — NEPEAN BUSINESS PARK APPROVED UNDER DA 9876 TO BE AMENDED UNDER THIS DA

Department of Planning, Housing and Infrastructure

NSW GOVERNMENT

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 13 of 34

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
4	28/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	GAP	AL		AL
3	15/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		AL
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale: 0 10 20 30 40 50m — SCALE 1:500 @A1

North

enspire
Enspire Solutions Pty Ltd
Level 7, 54 Miller Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project: NEPEAN BUSINESS PARK
PENRITH

Scale: 1:500
First Issue Date: 04/12/2024

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Title: SITEWORKS AND STORMWATER MANAGEMENT PLAN SHEET 3

Size: A1
Datum: AHD

Project Number/Drawing Number: 200044-09-DA-C05.03

Revision: 4

DATE PLOTTED: 28 August 2025 1:42 PM BY : ANTHONY PACIBEN

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C05.01-C05.04 SITEWORKS AND STORMWATER MANAGEMENT PLAN.dwg

FOR CONTINUATION REFER DRG: C05.02

FOR CONTINUATION REFER DRG: C05.03

NEPEAN BUSINESS PARK TO BE RETAINED AS APPROVED UNDER DA 9876

ROAD 01

ROAD 03

450 L47-03

L47-02

LEGEND

- SITE BOUNDARY
- 100.00 — CONTOUR
- BATTER
- K&G — KERB AND GUTTER REFER DRG: C14.11 FOR COUNCIL STANDARD DETAIL
- SS — SS — SUBSOIL DRAINAGE LINE
- FP — SUBSOIL FLUSHING POINT
- 375 — PIPE SIZE STORMWATER DRAINAGE LINE FLOW DIRECTION
- A01/01 — STORMWATER LINE/PIT NUMBER
- KERB INLET PIT
- SURFACE INLET PIT/JUNCTION PIT
- 100.00 — NEPEAN BUSINESS PARK TO BE RETAINED AS APPROVED UNDER DA 9876
- 100.00 — NEPEAN BUSINESS PARK APPROVED UNDER DA 9876 TO BE AMENDED UNDER THIS DA

Department of Planning, Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 14 of 34

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
4	28/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	GAP	AL		AL
3	15/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		AL
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale: 0 10 20 30 40 50m — SCALE 1:500 @A1

North

Enspire Solutions Pty Ltd
Level 7, 54 Miller Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project: NEPEAN BUSINESS PARK, PENRITH

Title: SITEWORKS AND STORMWATER MANAGEMENT PLAN SHEET 4

Scale: 1:500

First Issue Date: 04/12/2024

Size: A1

Datum: AHD

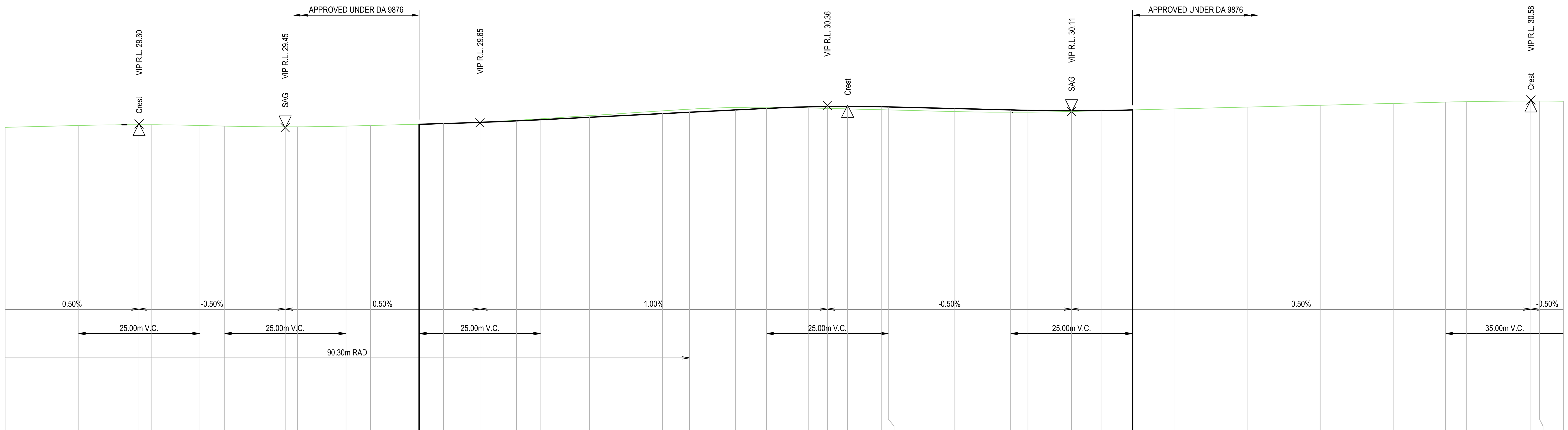
Status: FOR APPROVAL — NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C05.04

Revision: 4

DATE PLOTTED: 28 August 2025 1:42 PM BY - ANTHONY PACIBEN

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C05.01-C05.04 SITEWORKS AND STORMWATER MANAGEMENT PLAN.dwg



CHAINAGE	PROPOSED FINISHED SURFACE LEVEL	APPROVED DA 9876 SURFACE LEVEL
630.00		29.46
645.00		29.54
657.50		29.57
660.00		29.57
670.00		29.54
675.00		29.51
687.50		29.48
690.00		29.48
700.00		29.51
705.00		29.54
715.00	29.59	29.59
720.00	29.62	29.62
727.50	29.67	29.68
735.00	29.73	29.75
740.00	29.77	29.81
750.00	29.87	29.94
765.00	30.02	30.14
770.50	30.08	30.21
780.00	30.17	30.28
786.32	30.24	30.29
795.00	30.30	30.26
798.82	30.32	30.24
802.98	30.32	30.22
810.00	30.31	30.18
811.32	30.30	30.18
825.00	30.23	30.11
836.46	30.17	30.08
840.00	30.16	30.08
848.96	30.14	30.11
855.00	30.15	30.14
861.46	30.17	30.17
870.00		30.22
885.00		30.29
900.00		30.37
915.00		30.44
925.77		30.50
930.00		30.52
943.27		30.54
945.00		30.54
950.00		30.53

ROAD 01 LONGITUDINAL SECTION

SCALE 1:500 HORI
SCALE 1:100 VERT

Department of Planning, Housing and Infrastructure
NSW GOVERNMENT

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 15 of 34

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale
H: 0 10 20 30 40 50m
V: 0 2 4 6 8 10m
SCALE: H:1:500 V:1:100 @A1

North

enspire
Enspire Solutions Pty Ltd
Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project: NEPEAN BUSINESS PARK PENRITH
Title: ROAD LONGITUDINAL SECTIONS
Scale: AS SHOWN
First Issue Date: 04/12/2024
Size: A1
Datum: AHD
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION
Project Number/Drawing Number: 200044-09-DA-C07.01
Revision: 2

DATE PLOTTED: 26 February 2025 4:29 PM BY : JOSEPH SHELAYMOON

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C07.01 ROAD LONGITUDINAL SECTIONS.dwg

Department of Planning, Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 16 of 34

NEPEAN BUSINESS PARK
TO BE RETAINED AS
APPROVED UNDER DA 9876

ROAD 01

ROAD 02

ROAD 03

LUGARD STREET

NO STOPPING R5-400 A

NO STOPPING R5-400 A

NO STOPPING R5-400 A

LEGEND

LOCAL ROAD

FOOTPATH

PAVEMENT MARKING LEGEND

BARRIER LINES

BB

CONTINUITY LINES

C1

GIVEWAY LINES

TB

TB1

STOP LINE

TF

NOTE:

1. REFER DRG: C14.01 FOR PAVEMENT DETAILS
2. REFER TO APPROVED DA9876 DRAWINGS FOR OVERALL PAVEMENT, SIGNAGE AND LINEMARKING DETAILS.

SIGNAGE AND LINEMARKING

1. LINE MARKING AND PAINT SHALL BE IN ACCORDANCE WITH AS 2700 AND AS 2709 AND TINSW SPECIFICATIONS.
2. ALL PAINT SHALL BE APPLIED BY MECHANICAL SPRAYER.
3. LINE MARKING SHALL BE SPOTTED OUT AND APPROVED PRIOR TO SPRAYING.
4. PAINT SHALL BE APPLIED AT A WET THICKNESS OF BETWEEN 0.35mm TO 0.40mm.
5. TRANSITION LINEMARKING TO SUIT EXISTING WHERE REQUIRED.ALL SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AUSTRALIAN STANDARDS.
6. REMOVE ALL REDUNDANT PAVEMENT MARKING AS REQUIRED.
7. PROVIDE RETRO-REFLECTORISED PAVEMENT MARKERS TO COUNCIL AND TINSW REQUIREMENTS.
8. ALL LINEMARKING TO BE WHITE IN COLOUR.
9. ALL SIGNAGE TO BE IN ACCORDANCE WITH THE CURRENT VERSION OF THE TINSW REGULATORY SIGNS MANUAL.
10. RELOCATE OR REMOVE EXISTING SIGNS AS REQUIRED.
11. PROVIDE ADEQUATE APPROACH WARNING SIGNS DURING AND AFTER CONSTRUCTION.

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
5	28/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	GAP	AL		AL
4	15/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		AL
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale: 0 20 40 60 80 100m — SCALE 1:1000 @A1

North

Enspire Solutions Pty Ltd
Level 7, 54 Miller Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project: NEPEAN BUSINESS PARK
PENRITH

Title: PAVEMENT, SIGNAGE AND LINEMARKING PLAN

Scale: 1:1000

First Issue Date: 04/12/2024

Size: A1

Datum: AHD

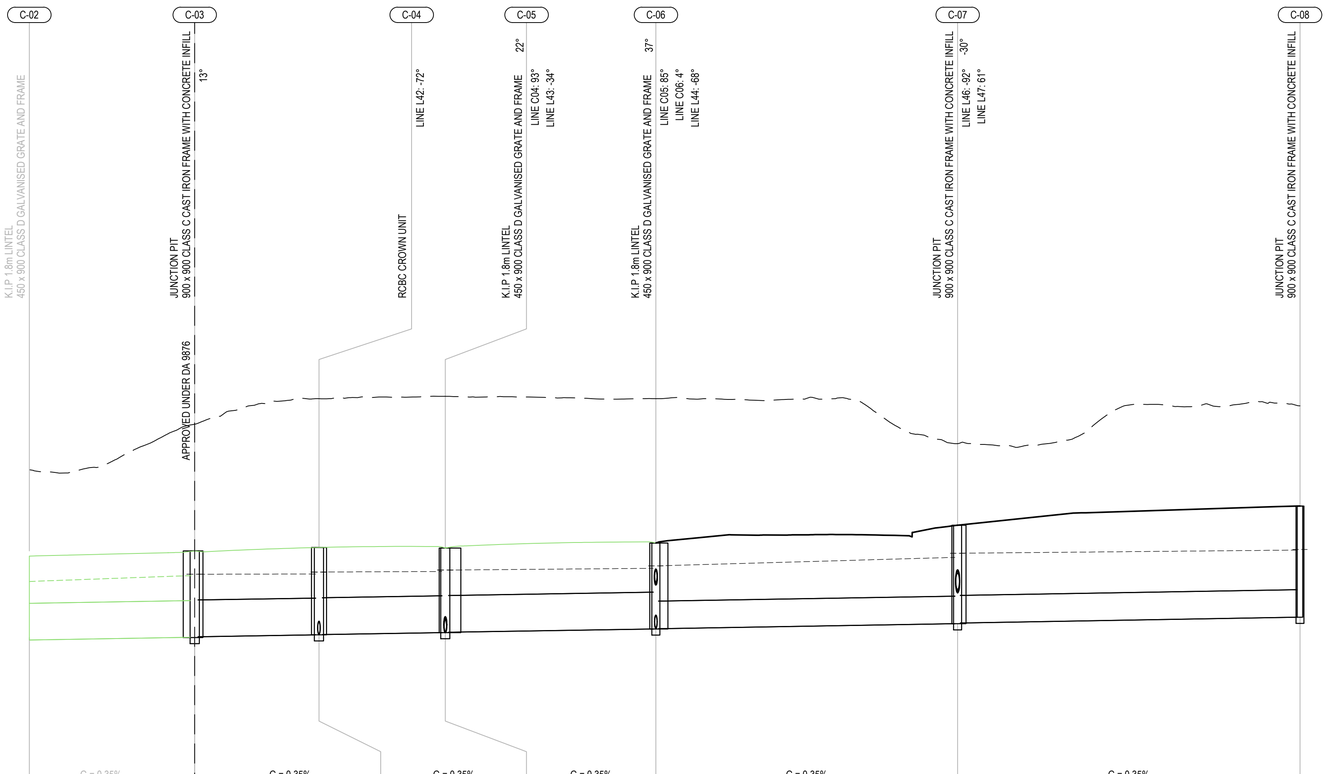
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C11.01

Revision: 5

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C11.01 PAVEMENT, SIGNAGE AND LINEMARKING PLAN.dwg

DATE PLOTTED: 28 August 2025 1:50 PM BY - ANTHONY PACIBEN



PIPE GRADE (%)	G = 0.35%	G = 0.35%	G = 0.35%	G = 0.35%	G = 0.35%	G = 0.35%
PIPE SIZE (mm)	2400x1200 - RCBC	2400x1200 - RCBC	2400x1200 - RCBC	2400x1200 - RCBC	2400x900 - RCBC	2100x900 - RCBC
PIPE VELOCITY (m/s)	Vf = 1.72	Vf = 1.34	Vf = 1.33	Vf = 1.36	Vf = 1.73	Vf = 1.60
Q - PIPE FLOW (L/s)	Q = 4381	Q = 3853	Q = 3822	Q = 3849	Q = 3731	Q = 3033
DATUM RL	15.0					
DESIGN STORM H.G.L.	26.40 26.40 26.41	27.749 27.792 27.792	27.801 27.865 27.865	27.883 27.929 27.929	27.986 28.067 28.067	28.343 28.478 28.478	28.581 28.602
FINISHED SURFACE	28.32	28.553	28.666	28.667	28.810	29.393	30.019
NATURAL SURFACE	28.39	32.688	33.522	33.599	33.523	32.055	33.289
PIPE INVERT LEVEL	25.52 25.52	25.727 25.753	25.815 25.823	25.888 25.898	26.006 26.014	26.176 26.199	26.389
DEPTH TO INVERT	2.80 2.80	2.826 2.800	2.852 2.843	2.779 2.769	2.804 2.795	3.216 3.193	3.631
CO-ORDINATED SETOUT	E285400.45 N6265174.63	E285424.81 N6265188.85	E285442.42 N6265197.04	E285461.15 N6265205.01	E285495.33 N6265204.33	E285533.76 N6265173.66	E285589.13 N6265166.12
CHAINAGE	67.661	94.661 L = 27.000	114.947 L = 17.695	135.571 L = 18.409	169.941 L = 30.846	219.201 L = 46.360	275.086 L = 54.058

LINE C01

Department of Planning, Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 17 of 34

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
4	15/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		AL
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale: H: 0 10 20 30 40 50m; V: 0 2 4 6 8 10m; SCALE: H:1:500 V:1:100 @A1

North

enspire
Enspire Solutions Pty Ltd
Level 7, 54 Miller Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project: NEPEAN BUSINESS PARK
PENRITH

Title: STORMWATER LONGSECTIONS
SHEET 1

Scale: AS SHOWN
First Issue Date: 04/12/2024

Size: A1
Datum: AHD

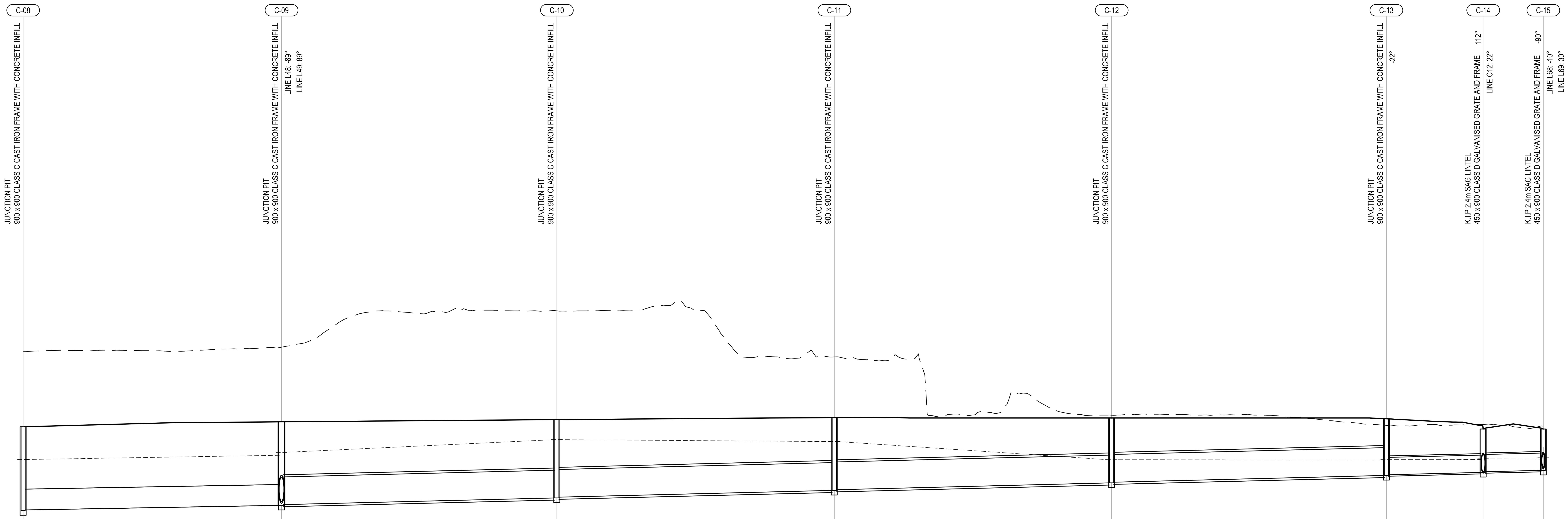
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C13.01

Revision: 4

DATE PLOTTED: 15 August 2025 2:34 PM BY : JOSEPH SHELAYMOON

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C13.01-C13.02 STORMWATER LONGSECTIONS.dwg



	C-08 to C-09	C-09 to C-10	C-10 to C-11	C-11 to C-12	C-12 to C-13	C-13 to C-14	C-14 to C-15
PIPE GRADE (%)	G = 0.35%	G = 0.50%	G = 0.50%	G = 0.50%	G = 0.50%	G = 0.50%	G = 0.50%
PIPE SIZE (mm)	2100x900 - RCBC	1200 - RCP CLASS 4	1200 - RCP CLASS 4	1200 - RCP CLASS 4	1200 - RCP CLASS 4	(2x)750 - RCP CLASS 4	(2x)750 - RCP CLASS 4
PIPE VELOCITY (m/s)	Vf = 1.86	Vf = 1.91	Vf = 2.12	Vf = 2.18	Vf = 2.13	Vf = 1.54	Vf = 1.32
Q - PIPE FLOW (L/s)	Q = 2832	Q = 1584	Q = 1356	Q = 1146	Q = 1072	Q = 935	Q = 872
LENGTH	L = 54.688	L = 58.349	L = 59.100	L = 59.100	L = 58.502	L = [illegible]9.780	L = [illegible]

DATUM RL 17.0

	C-08	C-09	C-10	C-11	C-12	C-13	C-14	C-15
DESIGN STORM H.G.L.	28.581 / 28.602 / 28.602	28.785 / 28.909 / 28.909	29.462 / 29.463 / 29.463	29.378 / 29.383 / 29.383	28.589 / 28.595 / 28.595	28.576 / 28.596 / 28.596	28.601 / 28.635 / 28.635	28.619 / 28.677 / 28.677
FINISHED SURFACE	30.019	30.235	30.328	30.410	30.400	30.366	29.922	29.922
NATURAL SURFACE	33.289	33.466	35.038	33.043	30.520	30.077	30.120	30.052
PIPE INVERT LEVEL	26.389 / 26.419	26.618 / 26.648	26.940 / 26.970	27.266 / 27.296	27.591 / 27.621	27.914 / 27.944	28.042 / 28.072	28.133 / 28.163
DEPTH TO INVERT	3.631 / 3.601	3.617 / 3.587	3.388 / 3.358	3.144 / 3.114	2.809 / 2.779	2.452 / 2.422	1.880 / 1.850	1.789 / 1.759
CO-ORDINATED SETOUT	E285589.13 N6265166.12	E285644.51 N6265158.57	E285703.48 N6265150.24	E285762.93 N6265142.15	E285822.38 N6265134.05	E285881.24 N6265126.03	E285901.09 N6265130.23	E285913.97 N6265128.47
CHAINAGE	275.086	330.976	390.525	450.525	510.525	569.927	[illegible]	[illegible]

LINE C01

Department of Planning, Housing and Infrastructure
NSW GOVERNMENT

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 18 of 34

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
3	15/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		AL
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client
NEPEAN BUSINESS PARK

Scale
H: 0 10 20 30 40 50m
V: 0 2 4 6 8 10m
SCALE: H:1:500 V:1:100 @A1

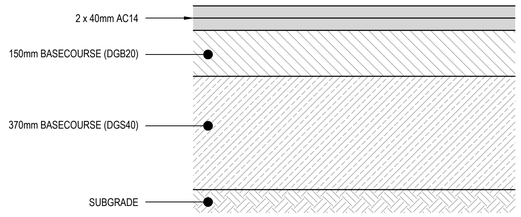
North

enspire
Enspire Solutions Pty Ltd
Level 7, 54 Miller Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project: NEPEAN BUSINESS PARK PENRITH
Scale: AS SHOWN
First Issue Date: 04/12/2024
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION
Title: STORMWATER LONGSECTIONS SHEET 2
Size: A1
Datum: AHD
Project Number/Drawing Number: 200044-09-DA-C13.02
Revision: 3

DATE PLOTTED: 15 August 2025 2:34 PM BY : JOSEPH SHELAYMOON

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C13.01-C13.02 STORMWATER LONGSECTIONS.dwg

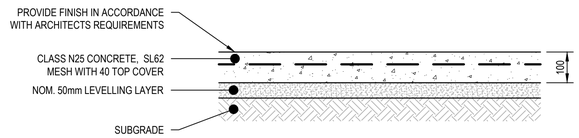


PRIVATE LOCAL ROAD

SCALE 1:10

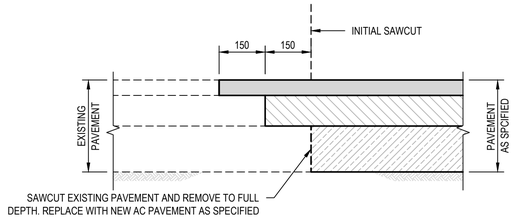
NOTES:

1. MIN CBR 4.0% (CONTRACTOR TO CONFIRM ONSITE).
2. DESIGN LOADING = $5x10^6$ ESA's
3. PRIME AND TACK COAT BASECOURSE SURFACE PRIOR TO PLACEMENT OF AC WEARING COURSE.



FOOTPATH

SCALE 1:10



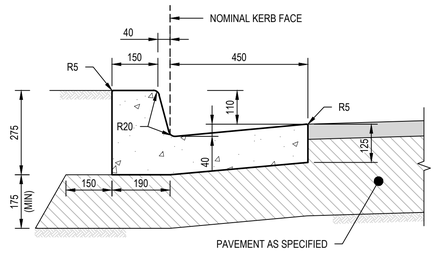
FLEXIBLE PAVEMENT INTERFACE DETAIL

NEW TO EXISTING

SCALE 1:10

NOTE:

TACK COAT EXISTING PAVEMENT BASE AND AC INTERFACE PRIOR TO PLACEMENT OF NEW AC WEARING COURSE.



KERB AND GUTTER (K&G)

SCALE 1:10

NOTE:

PROVIDE TOOL JOINTS AT MAX. 3.0m CTRS.

Department of Planning, Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 19 of 34

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale: 0 200 400 600 800 1000mm — SCALE 1:10 @A1

North

Enspire Solutions Pty Ltd
Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project: NEPEAN BUSINESS PARK, PENRITH

Title: SITEWORK DETAILS

Scale: 1:10

First Issue Date: 04/12/2024

Size: A1

Datum: AHD

Status: FOR APPROVAL — NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C14.01

Revision: 2

DATE PLOTTED: 26 February 2025 4:29 PM BY: JOSEPH SHELAYMOON

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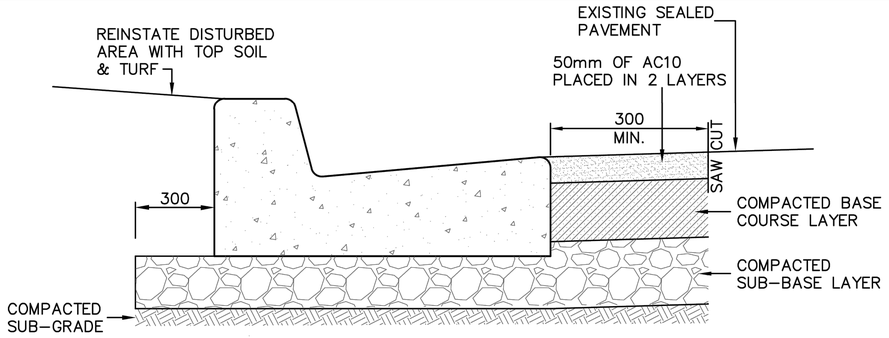
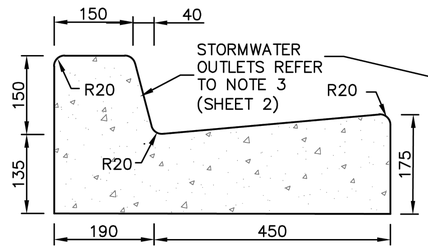
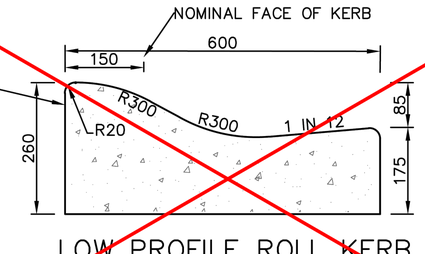


TYPICAL KERB & GUTTER RECONSTRUCTION

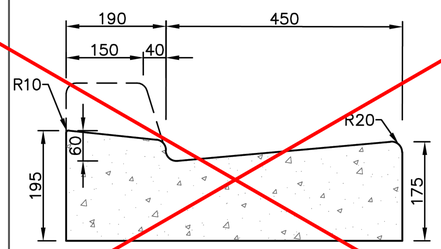
REFER NOTE 6 (SHEET 2)



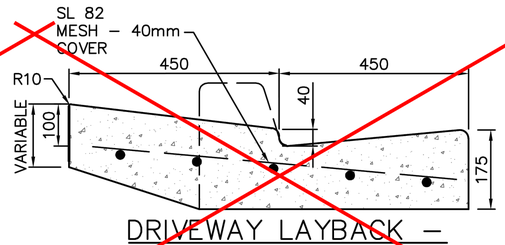
KERB & GUTTER



LOW PROFILE ROLL KERB



DRIVEWAY LAYBACK – RESIDENTIAL



DRIVEWAY LAYBACK – COMMERCIAL & INDUSTRIAL AND LOW LEVEL RESIDENTAIL

DRAWN:	STANDARD KERB & GUTTER, LAYBACKS & DISH CROSSING SHEET 1 OF 2	APPROVED:
PENRITH CITY COUNCIL		PLAN No: SD1003/1

Department of Planning, Housing and Infrastructure

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Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 20 of 34

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale:

North:

enspire
Enspire Solutions Pty Ltd
Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135

Project: NEPEAN BUSINESS PARK PENRITH

Title: COUNCIL DETAILS SHEET 1

Scale:

First Issue Date: 04/12/2024

Size: A1

Datum: AHD

Status: FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C14.11

Revision: 2

DATE PLOTTED: 26 February 2025 4:29 PM BY - JOSEPH SHELAYMOON

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C14.11-C14.14 COUNCIL DETAILS.dwg

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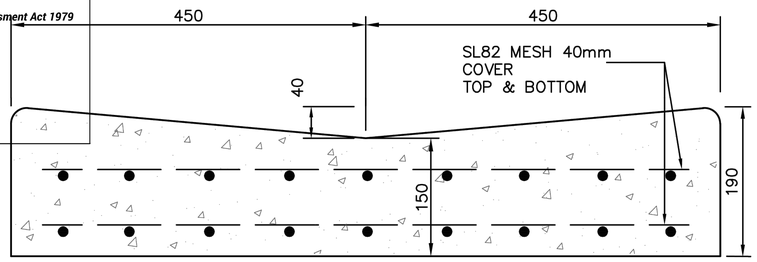
Approved Application No: DA 25/5786

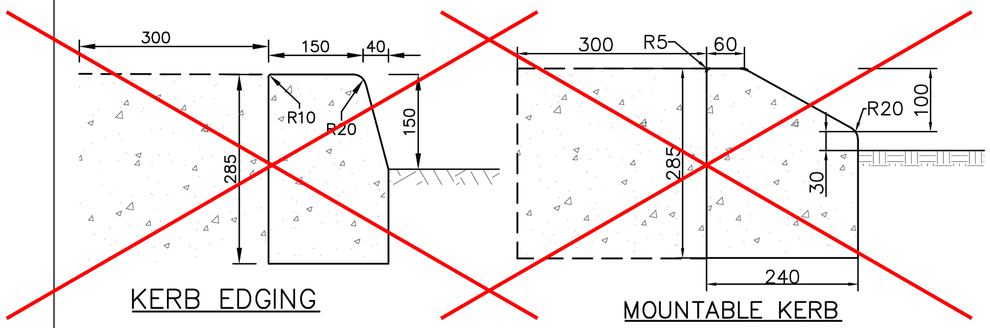
Approved on: 14 October 2025

Signed: DN

Sheet No: 21 of 34



REINFORCED DISH CROSSING



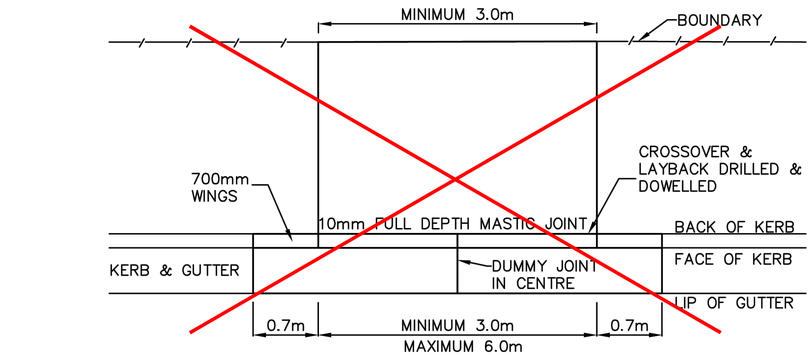
KERB EDGING

MOUNTABLE KERB

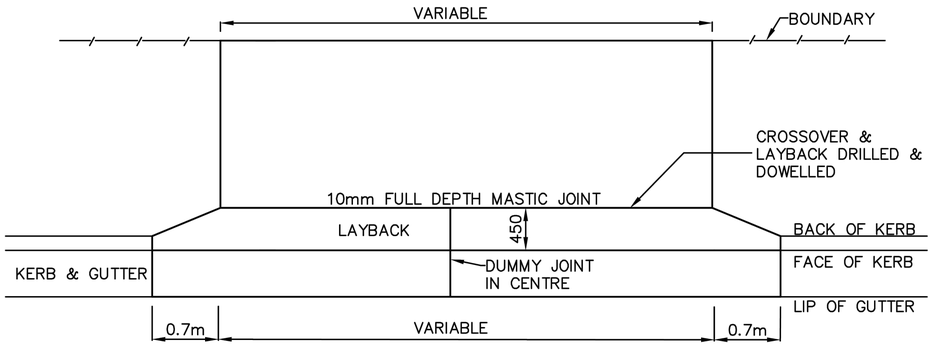
NOTES

1. CONCRETE COMPRESSIVE STRENGTH (F'c) AT 28 DAYS, TO BE 25MPa FOR KERB & GUTTER AND DISH CROSSINGS.
2. ROAD SUB–BASE SHALL BE EXTENDED 300mm BEHIND BACK OF KERB WITH THE THICKNESS TO BE NOT LESS THAN THE ROAD PAVEMENT SUB–BASE THICKNESS.
3. GALVANIZED STEEL OR SIMILAR APPROVED STORMWATER KERB ADAPTORS THE FULL HEIGHT OF THE KERB SHALL BE USED. THE KERB OUTLETS ARE TO MATCH THE PROFILE OF THE KERB. SEE SPECIFICATION
4. ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE STATED.
5. ALL EXPOSED EDGES TO BE ROUNDED TO 20mm RADIUS UNLESS SHOWN OTHERWISE
6. SPECIFICATIONS FOR RECONSTRUCTION WORKS TO BE DETERMINED BY COUNCIL'S ENGINEER.
7. SERVICE CONDUIT LOCATIONS SHALL BE MARKED ON KERB FACE WITH AN APPROVED TOOL OR AS OTHERWISE DIRECTED.

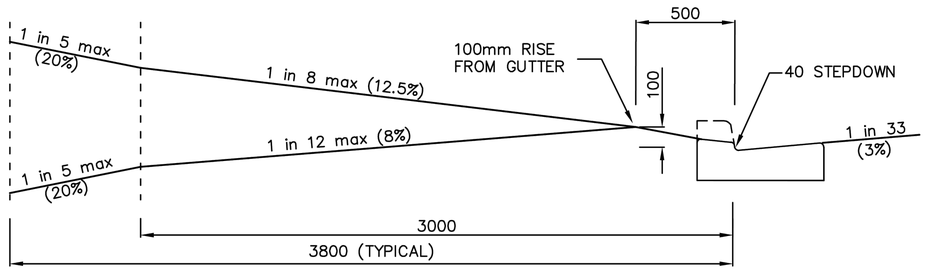
DRAWN:	STANDARD KERB & GUTTER, LAYBACKS & DISH CROSSING SHEET 2 OF 2	APPROVED:
PENRITH CITY COUNCIL		PLAN No: SD1003/2



RESIDENTIAL



INDUSTRIAL/COMMERCIAL



VEHICULAR CROSSING PROFILE – HIGH & LOW LEVEL

DRAWN:	TYPICAL VEHICULAR CROSSOVER	APPROVED:
PENRITH CITY COUNCIL		PLAN No: SD1004

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale:

North:

Enspire Solutions Pty Ltd
Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135

Project: NEPEAN BUSINESS PARK PENRITH

Title: COUNCIL DETAILS SHEET 2

Scale:

First Issue Date: 04/12/2024

Size: A1

Datum: AHD

Status: FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION

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Revision: 2

DATE PLOTTED: 26 February 2025 4:30 PM BY: JOSEPH SHELAYMOON

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C14.11-C14.14 COUNCIL DETAILS.dwg

Department of Planning, Housing and Infrastructure

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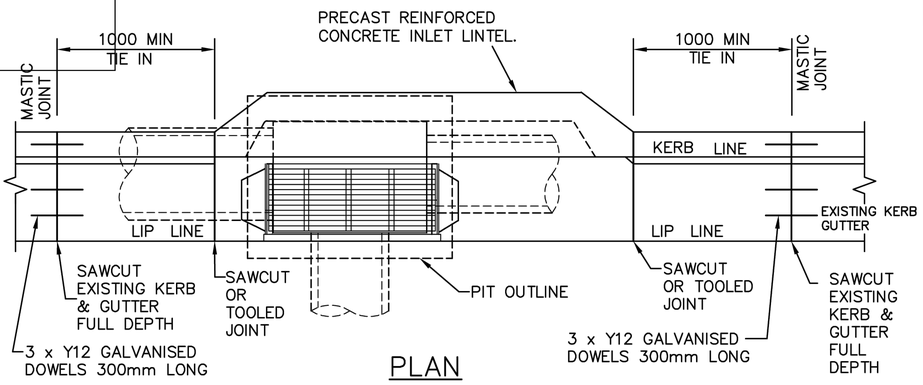
Approved Application No: DA 25/5786

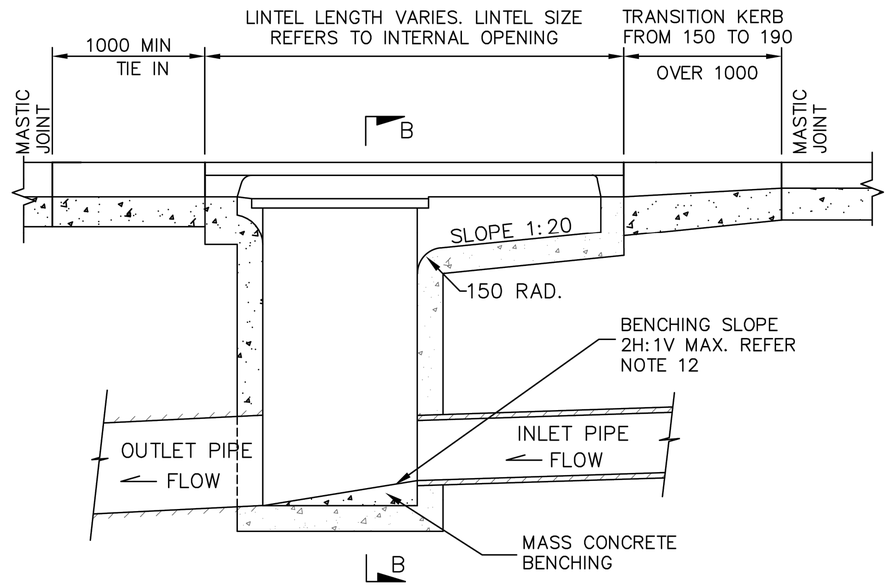
Approved on: 14 October 2025

Signed: DN

Sheet No: 22 of 34

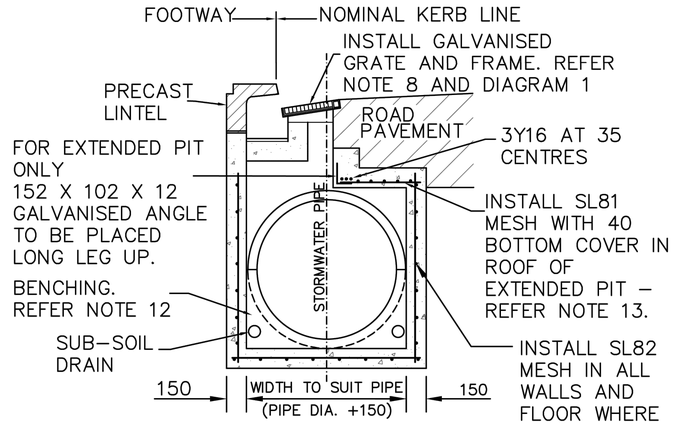


PLAN

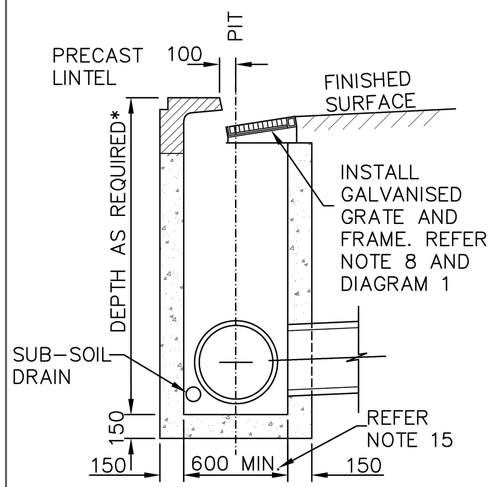


SECTION

DRAWN: M.WARDA	KERB INLET PIT SHEET 1 OF 3	APPROVED:
PENRITH CITY COUNCIL		PLAN No: SD2001/1



SECTION B – B
EXTENDED PIT CHAMBER
REFER NOTE 11.



SECTION B – B
STANDARD PIT

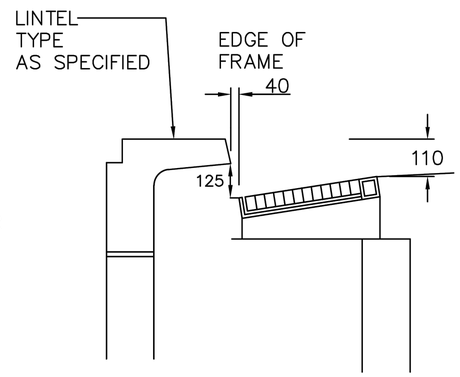


DIAGRAM 1
GRATE INSTALLATION TOLLERENCE

DRAWN: M.WARDA	KERB INLET PIT SHEET 2 OF 3	APPROVED:
PENRITH CITY COUNCIL		PLAN No: SD2001/2

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale:

North:

enspire
Enspire Solutions Pty Ltd
Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135

Project: NEPEAN BUSINESS PARK PENRITH

Title: COUNCIL DETAILS SHEET 3

Scale:

First Issue Date: 04/12/2024

Size: A1

Datum: AHD

Status: FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C14.13

Revision: 2

DATE PLOTTED: 26 February 2025 4:30 PM BY: JOSEPH SHELAYMOON

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C14.11-C14.14 COUNCIL DETAILS.dwg

NOTES

1. CONCRETE TO BE 25MPa AT 28 DAYS.
2. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE
3. WHERE DEPTH OF PIT EXCEEDS 1500, WALLS AND BOTTOM TO BE REINFORCED IN ALL DIRECTIONS WITH SL82 MESH AT 40 COVER TO INSIDE FACE WITH N12 CORNER BARS 300 LEGS AT 400 CENTRES. PITS DEEPER THAN 2000 SHALL BE DESIGNED AND THE CONSTRUCTION CERTIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER.
4. TRIMMER BARS TO BE PROVIDED AROUND PIPES GREATER THAN 750 DIAMETER (SEE SD2003).
5. SAG PITS TO HAVE LINTEL LOCATED CENTRALLY OVER PIT.
6. BACKFILL ADJACENT TO PITS TO BE APPROVED GRANULAR MATERIAL.
7. A 3000 LENGTH OF APPROVED "FILTER FABRIC" WRAPPED 100 DIA SUB–SOIL DRAIN IS TO BE PROVIDED AND CONNECTED THROUGH THE UPSTREAM PIT WALL AT THE INVERT LEVEL OF THE UPSTREAM PIPE.
8. PIT GRATE AND FRAME TO BE "WELDLOK" GG51–D GULLY GRATE WITH SKIRTED BASE OR EQUIVALENT FOR ALL ROADS, FITTED WITH A LOCKABLE "J" BOLT OR EQUIVALENT. FOR SAG PITS, USE WELDLOK GG SB 94 SD GULLY GRATE OR EQUIVALENT.
9. APPROVED STEP IRONS SHALL BE PROVIDED WHERE THE PIT EXCEEDS 1000 IN DEPTH. THEY SHALL BE LOCATED AS DIRECTED AND STAGGERED TO GIVE 300 SPACING VERTICALLY AND 300 SPACING HORIZONTALLY.
10. THE CENTRE LINES OF INTERSECTING PIPES ARE TO MEET AT THE DOWNSTREAM FACE OF THE PIT WHERE POSSIBLE.
11. WHERE ENTERING PIPE EXCEEDS 450 IN DIAMETER, PIT CHAMBER TO BE EXTENDED AS PER SECTION B–B 'EXTENDED PIT CHAMBER'.
12. FLOOR OF PIT TO BE BENCHED TO MID POINT OF OUTLET PIPE WHERE OUTLET PIPE GREATER THAN 600 DIAMETER.
13. WHERE EXTENDED CHAMBER WIDTH EXCEEDS 1200, ROOF REINFORCEMENT TO BE DESIGNED BY A PROFESSIONAL STRUCTURAL ENGINEER.
14. CONTRACTOR TO ENSURE CLEARANCE BETWEEN LINTEL AND OPENED GRATE. REFER DIAGRAM 1.
15. WHERE DEPTH OF PIT IS GREATER THAN 1200, INTERNAL WIDTH OF PIT TO BE INCREASED TO 900x900 FOR FULL DEPTH BELOW PAVEMENT.
16. LIFTING LUGS TO BE FILLED AFTER INSTALLATION.

Department of Planning, Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

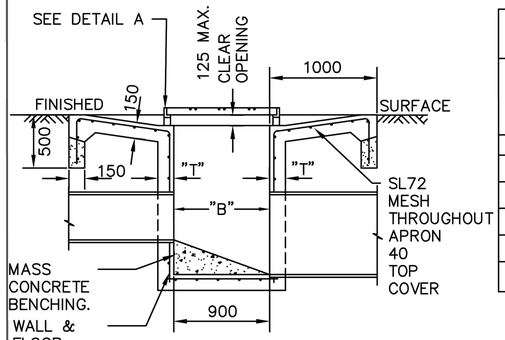
Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 23 of 34

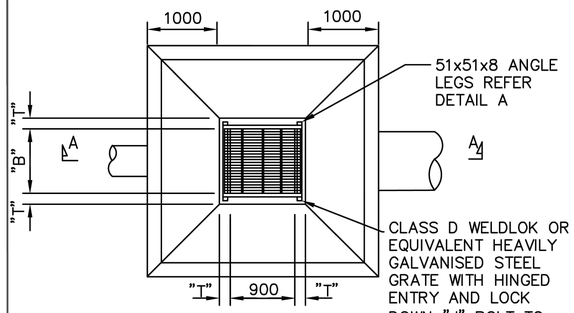
DRAWN: M.WARDA	KERB INLET PIT SHEET 3 OF 3	APPROVED:
PENRITH CITY COUNCIL		PLAN No: SD2001/3

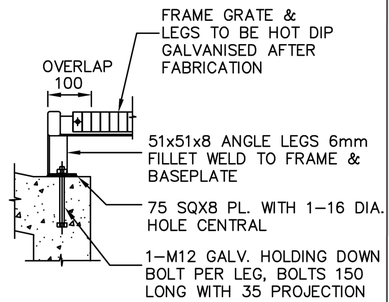


SECTION A – A
RAISED GRATE PIT

PIT DIMENSIONS & MESH			
LARGEST PIPE CONNECTED TO PIT	INTERNAL PIT DIMENSION "B"	WALL THICKNESS DIMENSION "T"	MESH (WALLS eg. & FLOOR ONLY)
UP TO 525	900	150	SL72
UP TO 750	900	150	SL72
825–900	1000	150	SL72
1050–1200	1400	150	SL82
1350	1550	200	SL82
1500	1700	200	SL102

– PITS DEEPER THAN 1.2m SHALL BE 900X900mm INSIDE DIMENSION.
– NOTWITHSTANDING THE ABOVE TABLE, PITS DEEPER THAN 2000mm INVERT OF GUTTER TO INVERT OF PIT SHALL BE STRUCTURALLY DESIGNED & CERTIFIED.





DETAIL A – CONNECTION OF RAISED GRATE TO PIT

TYPICAL DETAIL SURFACE INLET PIT TO SUIT PIPES UP TO 1500mm DIA.

NOTES.

1. ALL CONCRETE TO BE MINIMUM 25MPa UNLESS OTHERWISE NOTED.
2. APPROVED STEP IRONS SHALL BE PROVIDED WHERE THE PIT EXCEEDS 900mm IN DEPTH. THEY SHALL BE LOCATED AS DIRECTED AND STAGGERED TO GIVE 300mm SPACING VERTICALLY AND 300mm SPACING HORIZONTALLY. LOCATE HINGES OF GRATES TO SUIT STEP IRONS.
3. GRATES MUST BE CLASS D.
4. ALL CONCRETE WORK TO BE A MINIMUM OF 150mm THICK.
5. MASS CONCRETE BENCHING TO PIPE CENTRELINE MUST BE PROVIDED AS INDICATED.
6. WHERE SITE CONDITIONS DICTATE, THE SUPERVISING ENGINEER MAY INCLINE THE PIT TOPS TO AN UPPER LIMIT OF 1 VERT. IN 4 HORIZ. NO ALTERATION TO REINFORCEMENT IS REQUIRED, HOWEVER, THE ENTIRE PIT ROOF (AND ACCOMPANYING APRONS) ARE TO REMAIN PLANAR.
   eg.

7. ALL DIMENSION ARE IN mm UNLESS OTHERWISE NOTED.

DRAWN: W.KONG	STANDARD GRATED SURFACE INLET PITS	APPROVED:
PENRITH CITY COUNCIL		PLAN No: SD2002

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale:

North:

enspire
Enspire Solutions Pty Ltd
Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135

Project: NEPEAN BUSINESS PARK PENRITH

Title: COUNCIL DETAILS SHEET 4

Scale:

First Issue Date: 04/12/2024

Size: A1

Datum: AHD

Status: FOR APPROVAL
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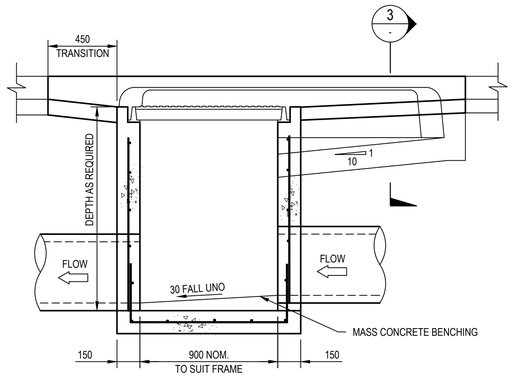
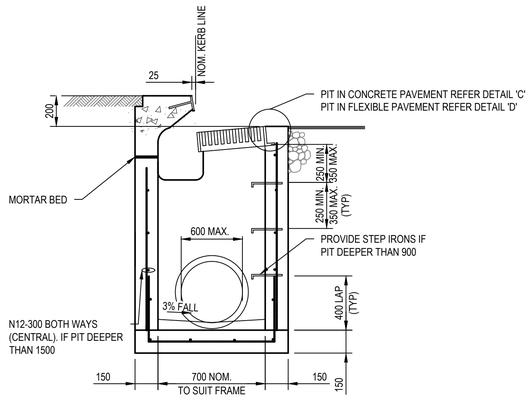
DATE PLOTTED: 26 February 2025 4:30 PM BY: JOSEPH SHELAYMOON

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C14.11-C14.14 COUNCIL DETAILS.dwg



SECTION 1 - SCALE 1:20



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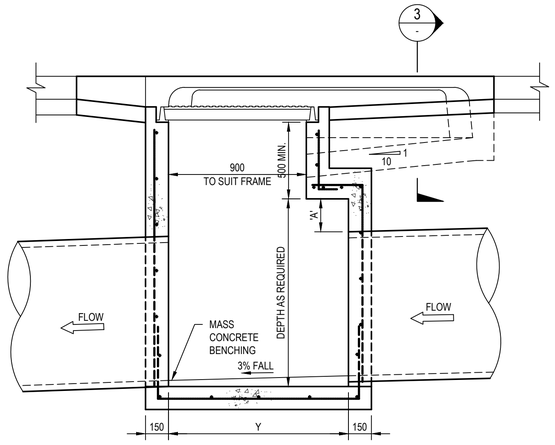
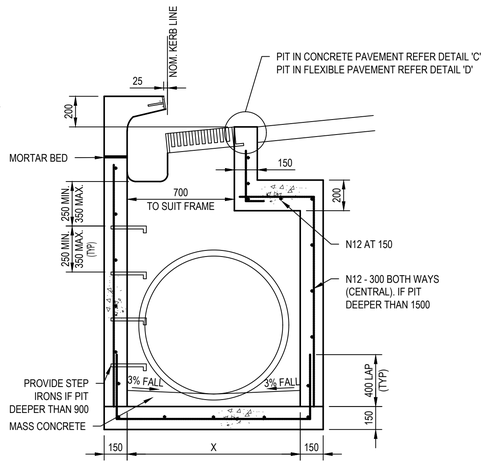


SECTION 1 - SCALE 1:20



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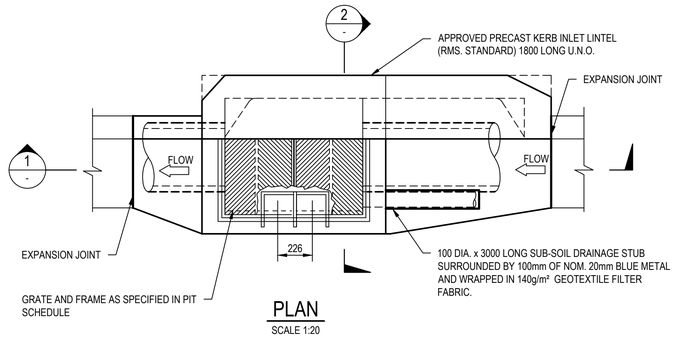
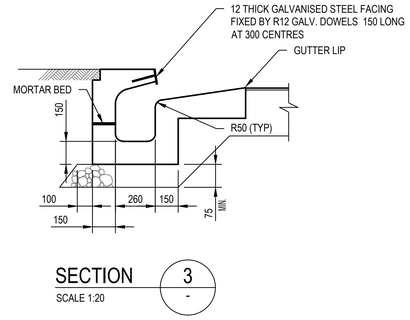


PLAN - SCALE 1:20



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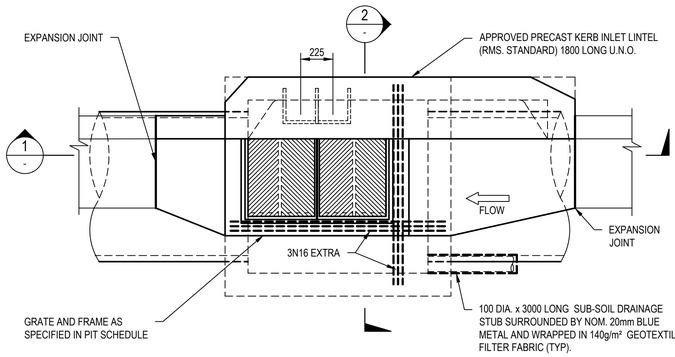
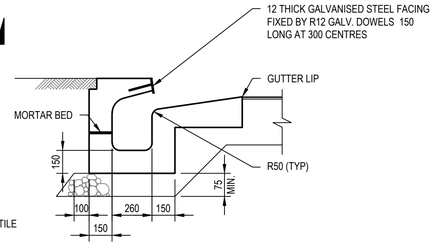


PLAN - SCALE 1:20



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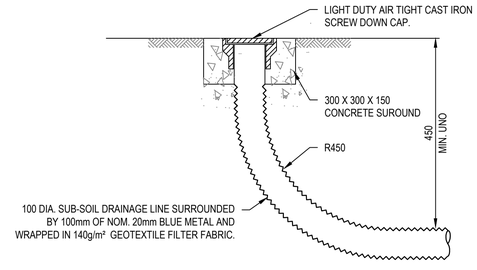
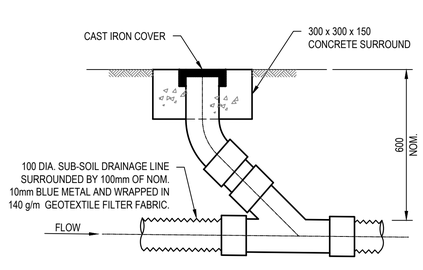
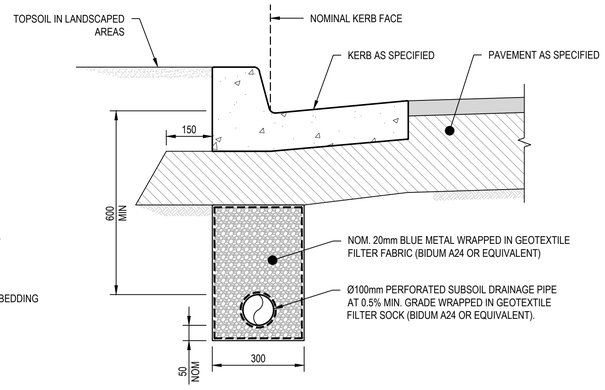


FLUSHING POINT - SCALE 1:10

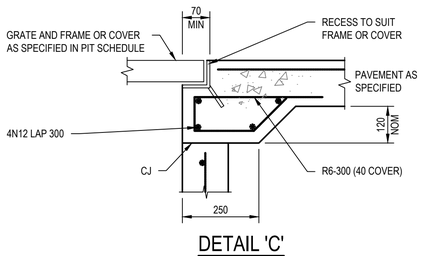


INTERMEDIATE RISER AG PIPE
SCALE 1:10
NOTE: SLOTTED RIGID PVC
PIPE AND FITTINGS MAY BE USED

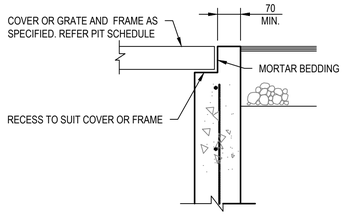


SUBSOIL DRAINAGE BEHIND KERBS
SCALE 1:10

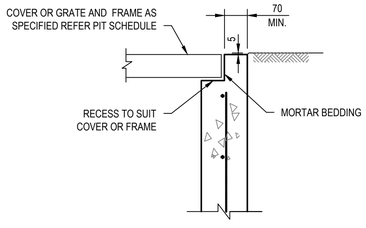
NOTE:
BRING RISER TO SURFACE BEHIND KERB.



DETAIL 'C' - SCALE 1:10



DETAIL 'D' - SCALE 1:10



DETAIL 'E' - SCALE 1:10

Department of Planning, Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 24 of 34

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale: SCALE 1:10 @A1 (0 0.2 0.4 0.6 0.8 1m); SCALE 1:20 @A1 (0 0.5 1 1.5 2m)

North

Enspire Solutions Pty Ltd
Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135

Project: NEPEAN BUSINESS PARK
PENRITH

Title: STORMWATER DETAILS
SHEET 1

Scale: AS SHOWN
First Issue Date: 04/12/2024
Size: A1
Datum: AHD

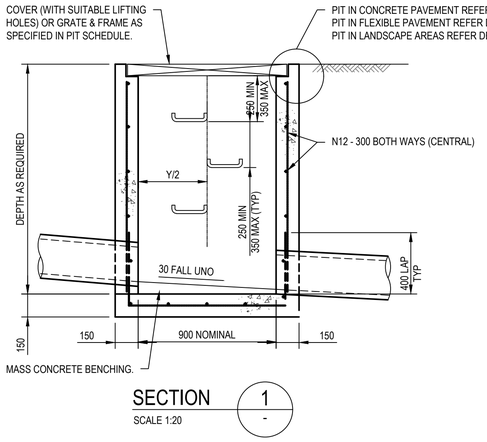
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C18.01

Revision: 2

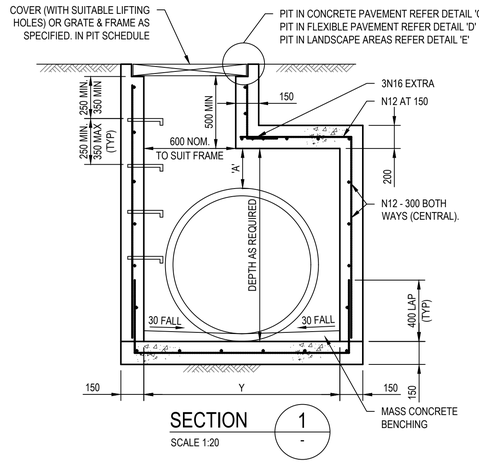
DATE PLOTTED: 26 February 2025 4:30 PM BY : JOSEPH SHELAYMOON

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C18.01-C18.02 STORMWATER DETAILS.dwg



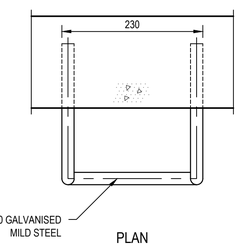
SECTION 1 -

SCALE 1:20

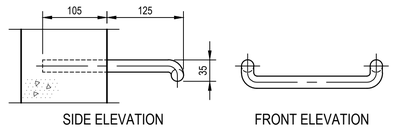


SECTION 1 -

SCALE 1:20

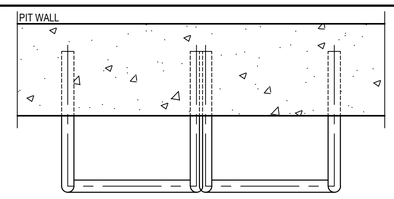


PLAN

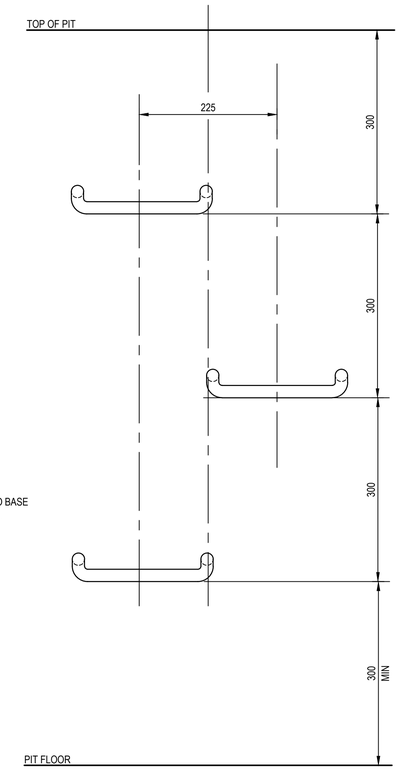


STEP IRON DETAIL

SCALE 1:5

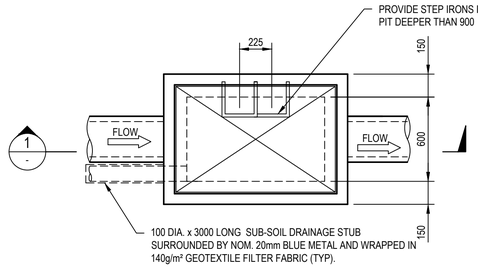


PLAN



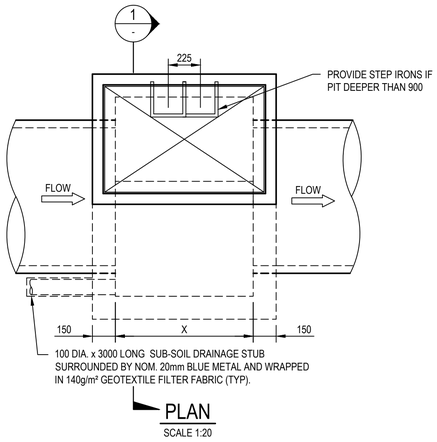
ELEVATION
STEP IRON PLACEMENT TO PIT WALL

SCALE NTS



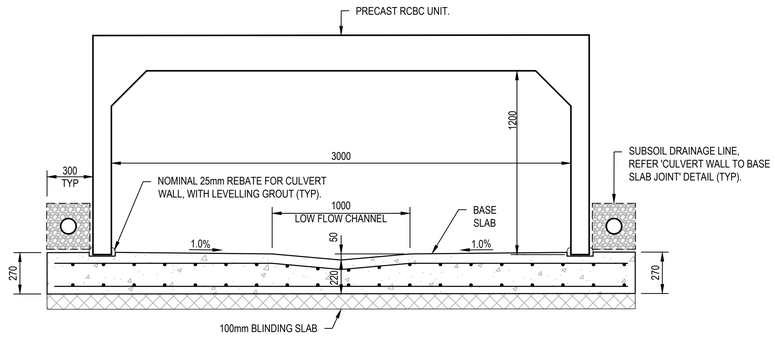
PLAN

SCALE 1:20



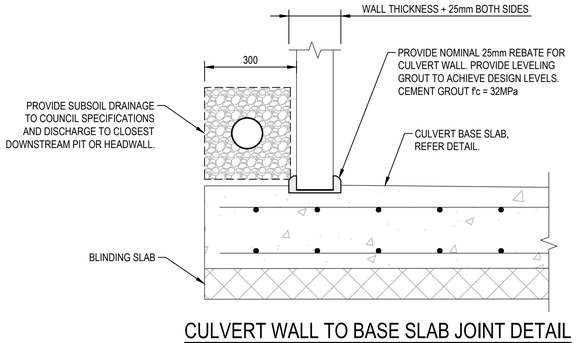
PLAN

SCALE 1:20



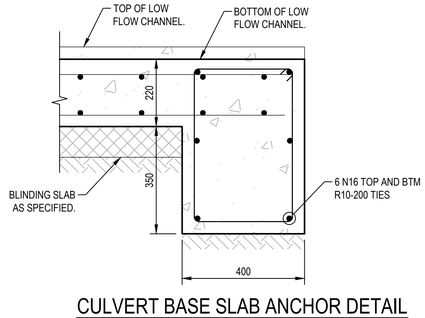
TYPICAL CULVERT AND BASE SLAB DETAIL

SCALE 1:20



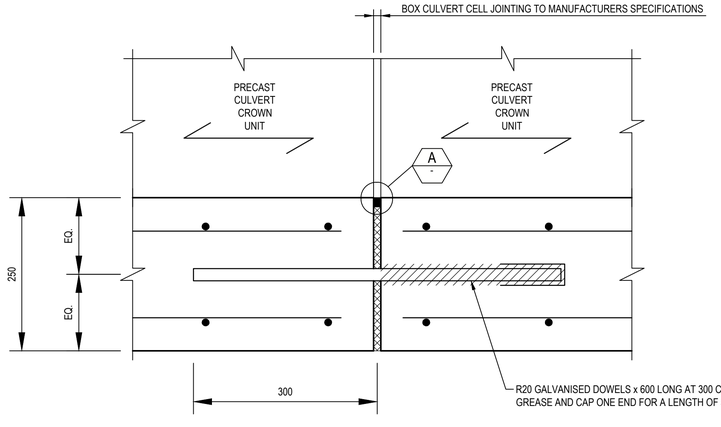
CULVERT WALL TO BASE SLAB JOINT DETAIL

SCALE 1:10



CULVERT BASE SLAB ANCHOR DETAIL

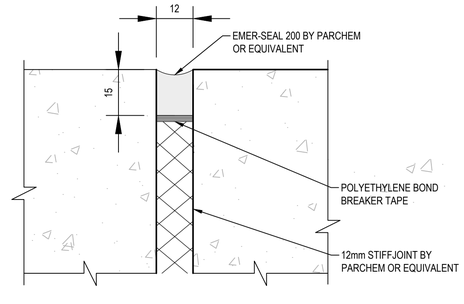
SCALE 1:10



TYPICAL CULVERT BASE SLAB CONSTRUCTION DETAIL

SCALE 1:10

NOTE: JOINT TO ALIGN WITH JOINT IN CROWN UNIT



DETAIL A -

N.T.S

Department of Planning, Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 25 of 34

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale: SCALE 1:10 @A1; SCALE 1:20 @A1

North

Enspire Solutions Pty Ltd
Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135

Project: NEPEAN BUSINESS PARK PENRITH

Title: STORMWATER DETAILS SHEET 2

Scale: AS SHOWN

First Issue Date: 04/12/2024

Size: A1

Datum: AHD

Status: FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C18.02

Revision: 2

DATE PLOTTED: 26 February 2025 4:30 PM BY: JOSEPH SHELAYMOON

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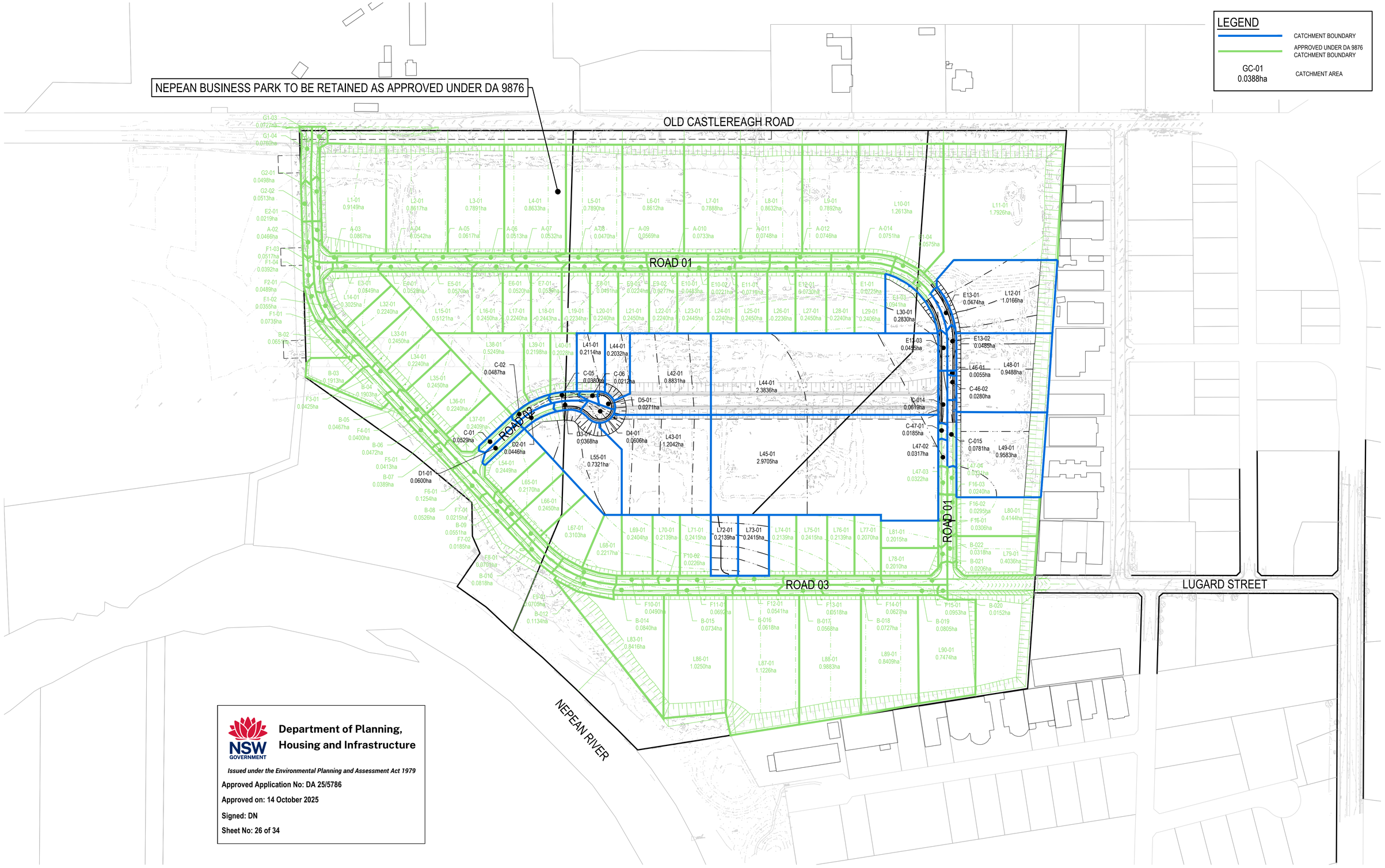


Department of Planning, Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 26 of 34

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF	APPD
4	15/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		AL
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale: 0 50 100 150 200m — SCALE 1:2000 @A1

North

enspire
Enspire Solutions Pty Ltd
Level 7, 54 Miller Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135
enspiresolutions.com.au

Project: NEPEAN BUSINESS PARK PENRITH

Title: CATCHMENT PLAN

Scale: 1:2000

First Issue Date: 04/12/2024

Size: A1

Datum: AHD

Status: FOR APPROVAL — NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C22.01

Revision: 4

DATE PLOTTED: 15 August 2025 2:19 PM BY : JOSEPH SHELAYMOON

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C22.01 CATCHMENT PLAN.dwg

NEPEAN BUSINESS PARK
TO BE RETAINED AS
APPROVED UNDER DA 9876

B-DOUBLE 26M
AUSTROADS 2023 (AU)

B-DOUBLE 26M
AUSTROADS 2023 (AU)

B-DOUBLE 26M
AUSTROADS 2023 (AU)

B-DOUBLE 26M
AUSTROADS 2023 (AU)

ROAD 02

Department of Planning,
Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

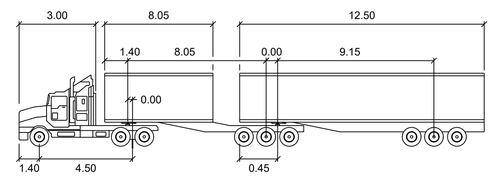
Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 27 of 34

VEHICLE PROFILE:



B-DOUBLE 26M

meters

Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 2.50	Steering Angle	: 23.4
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 2.50		

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
4	28/08/2025	ISSUED FOR DEVELOPMENT APPLICATION	GAP	AL		AL
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client: NEPEAN BUSINESS PARK

Scale: 0 5 10 15 20 25m — SCALE 1:250 @A1

North

Enspire Solutions Pty Ltd
Level 7, 54 Miller Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135 enspiresolutions.com.au

Project: NEPEAN BUSINESS PARK
PENRITH

Title: TURNING PATH PLAN

Scale: 1:250

First Issue Date: 04/12/2024

Size: A1

Datum: AHD

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200044-09-DA-C25.01

Revision: 4

DATE PLOTTED: 28 August 2025 1:42 PM BY : ANTHONY PACIBEN

CAD File: P:\200044 NepeanBusinessPark\D-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C25.01 TURNING PATH PLAN.dwg

CLOUSTON associates

LANDSCAPE ARCHITECTS • URBAN DESIGNERS • LANDSCAPE PLANNERS

• 65-69 KENT STREET • SYDNEY NSW 2000 • PO BOX R1388 • ROYAL EXCHANGE NSW 1225 • AUSTRALIA • SYDNEY@CLOUSTON.COM.AU • TELEPHONE +61 2 8272 4999 • FACSIMILE +61 2 8272 4998

Client:
Great River NSW Pty Ltd

1:4000 @A3

0 50 100 200m

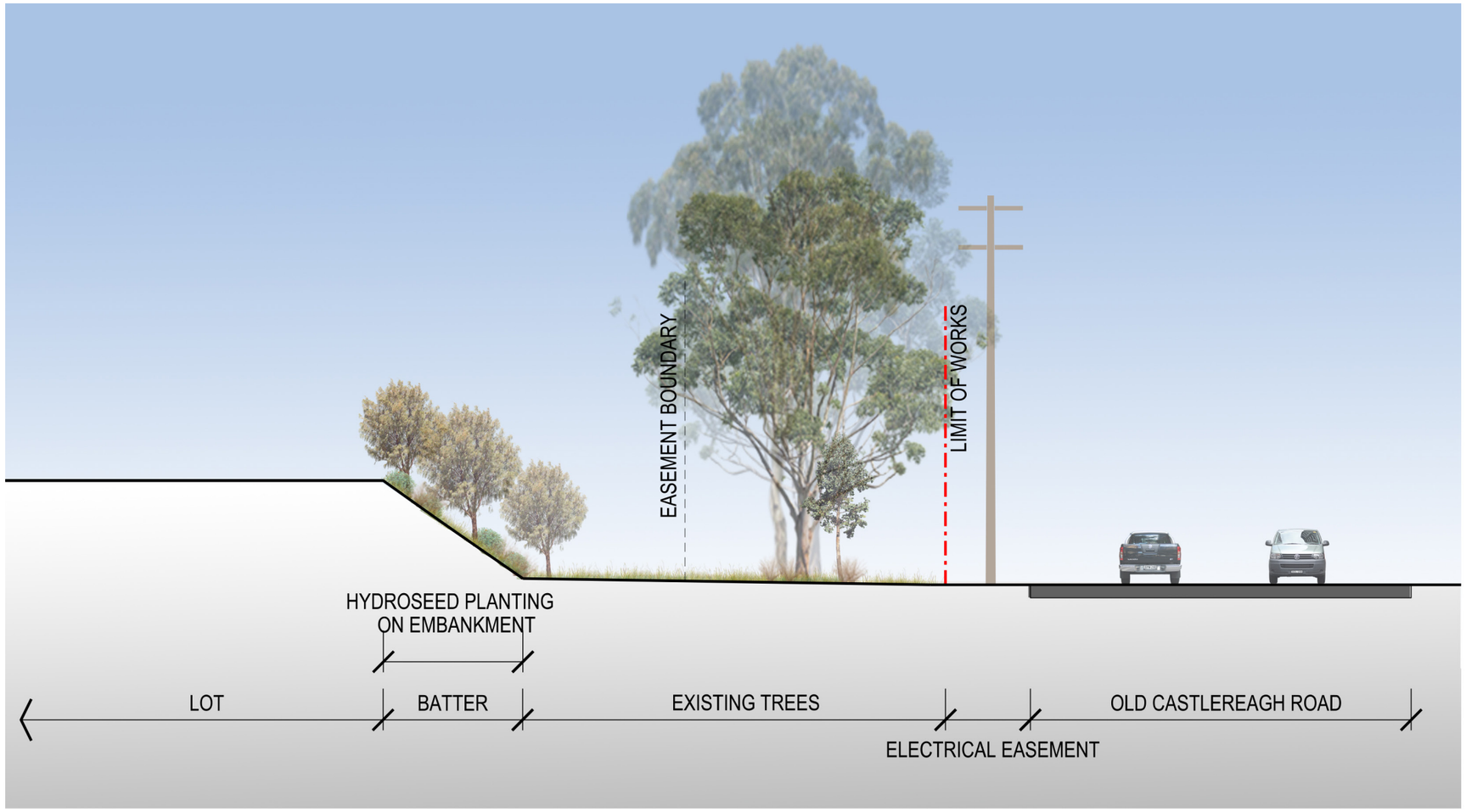
Nepean Business Park • PENRITH, NSW

GENERAL ARRANGEMENT PLAN

S18-0072 DA 6

15/01/2025 Issue L

P:\S18\S18-0072 PENRITH LAKES INDUSTRIAL SUBDIVISION\06 LAYOUT\A REPORTS\S18-0072 PENRITH LAKES INDUSTRIAL SUBDIVISION_DA_ISSUE L.INDD • LAST PRINTED ON 15/01/2025 10:29AM



CLOUSTON associates

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Client:
Great River NSW Pty Ltd

1:200 @A3

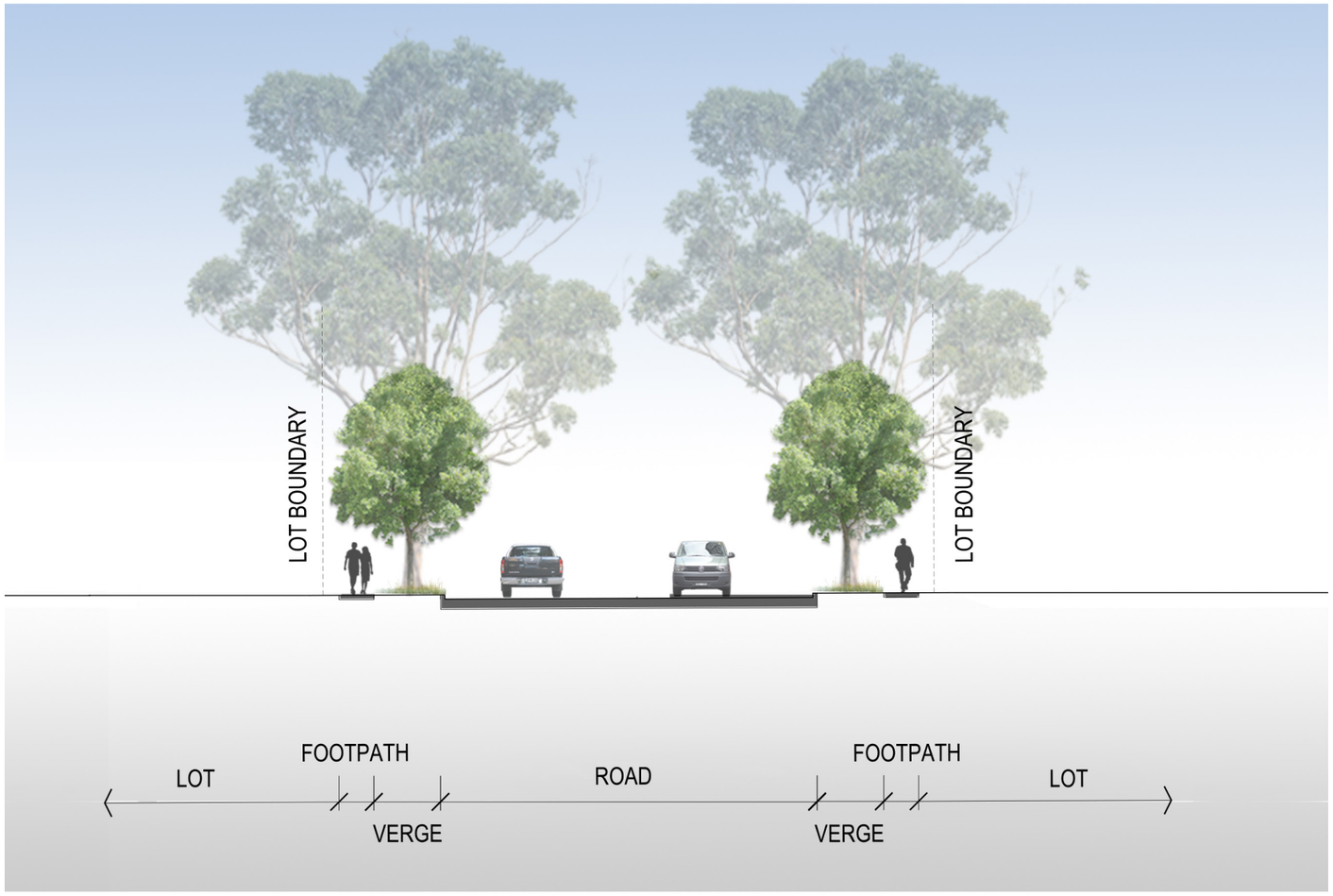
0 1 2 3 4 5 10m

Nepean Business Park • PENRITH, NSW

OLD CASTLEREAGH ROAD - SECTION AA

S18-0072 DA 7

15/01/2025 Issue L



CLOUSTON associates

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Client:
Great River NSW Pty Ltd

1:200 @A3

0 1 2 3 4 5 10m

Nepean Business Park • PENRITH, NSW

TYPICAL ROAD - SECTION BB

S18-0072 DA 8

15/01/2025 Issue L

Department of Planning, Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: DA 25/5786

Approved on: 14 October 2025

Signed: DN

Sheet No: 31 of 34

S1 - MAIN ENTRY SIGNAGE - PLAN

S1 - MAIN ENTRY SIGNAGE - ELEVATION

S2 - SECONDARY ENTRY SIGNAGE - PLAN

S2 - SECONDARY ENTRY SIGNAGE - ELEVATION

Note:
Refer DA 6 for location.

CLOUSTON associates

LANDSCAPE ARCHITECTS • URBAN DESIGNERS • LANDSCAPE PLANNERS

• 65-69 KENT STREET • SYDNEY NSW 2000 • PO BOX R1388 • ROYAL EXCHANGE NSW 1225 • AUSTRALIA • SYDNEY@CLOUSTON.COM.AU • TELEPHONE +61 2 8272 4999 • FACSIMILE +61 2 8272 4998

Client:
Great River NSW Pty Ltd

Nepean Business Park • PENRITH, NSW

ENTRY SIGNAGE CONCEPTS

S18-0072 DA 9

15/01/2025 Issue L

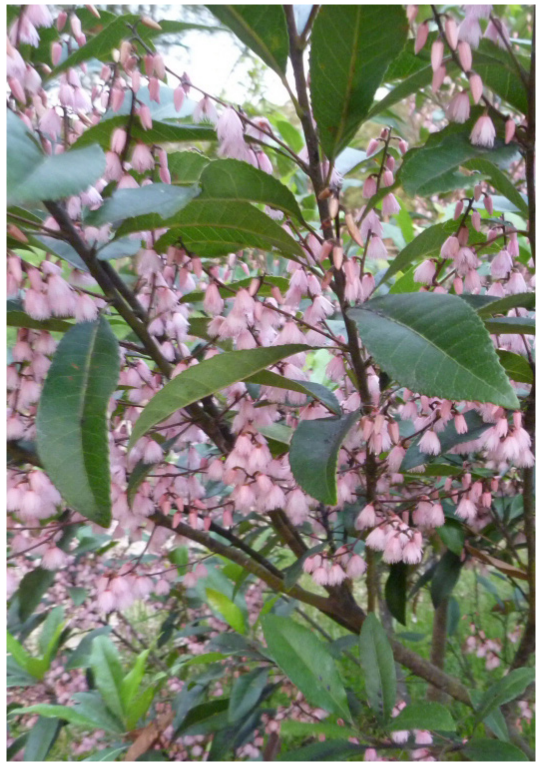
Trees

Eucalyptus saligna
Sydney Blue Gum

Corymbia eximia
Yellow Bloodwood

Small Trees

Angophora bakeri
Narrow Leafed Apple



Elaeocarpus reticulatus
Blueberry Ash

Agonis flexuosa
Willow Myrtle

Backhousia citriodora
Lemon Myrtle

Native Grasses

Lomandra fluviatilis 'Shara'
Lomandra 'Shara'

Lomandra longifolia 'Tanika'
Lomandra 'Tankia'

Poa labillardieri 'Eskdale'
Poa 'Eskdale'

Imperata cylindrica
Blady Grass

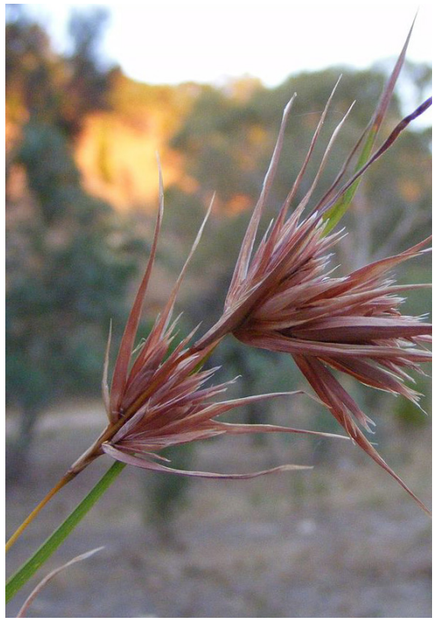
NSW GOVERNMENT
Department of Planning, Housing and Infrastructure
Issued under the Environmental Planning and Assessment Act 1979
Approved Application No: DA 25/5786
Approved on: 14 October 2025
Signed: DN
Sheet No: 32 of 34

Batter Planting

Microlaena stipoides
Weeping Grass

Acacia ulicifolia
Prickly Moses

Callistemon pallidus
Lemon Bottlebrush



Themeda triandra
Kangaroo Grass

Hardenbergia violacea
Purple Coral Pea

Kennedia rubicunda
Dusky Coral Pea

Department of Planning, Housing and Infrastructure

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Signed: DN

Sheet No: 33 of 34

CLOUSTON associates
LANDSCAPE ARCHITECTS • URBAN DESIGNERS • LANDSCAPE PLANNERS • 65-69 KENT STREET • SYDNEY NSW 2000 • PO BOX R1388 • ROYAL EXCHANGE NSW 1225 • AUSTRALIA • SYDNEY@CLOUSTON.COM.AU • TELEPHONE +61 2 8272 4999 • FACSIMILE +61 2 8272 4998

Client:
Great River NSW Pty Ltd

Nepean Business Park • PENRITH, NSW

INDICATIVE PLANTING PALETTE

S18-0072 DA 11

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NEPEAN BUSINESS PARK - PLANT SCHEDULE *

CODE	BOTANICAL NAME	COMMON NAME	ORIGINS	Indicative mature height at NBP (metre)	Indicative mature canopy width at NBP (metre)	Indicative clear trunk height at maturity at NBP (metre)	Max mature height in natural setting (metre)	Max mature canopy width in natural setting (metre)	QUANTITY
TREES									
Cex	*Corymbia eximia*	Yellow Bloodwood	New South Wales	12-15m	8-12m	6-8m	20m	15m	28
Esa	*Eucalyptus saligna*	Sydney Blue Gum	New South Wales	20-40m	15-20m	10-15m	50m	25m	118
SMALL TREES									
Afle	*Agonis flexuosa*	Willow Myrtle	Western Australia	8-10m	4-6m	3-4m	12m	8m	145
Aba	*Angophora bakeri*	Narrow Leafed Apple	New South Wales	8-10m	6-8m	3-4m	15m	10m	48
Bci	*Backhousia citriodora*	Lemon Myrtle	Eastern Australia	8-10m	6-8m	3-4m	15m	10m	30
Ere	*Elaeocarpus reticulatus*	Blueberry Ash	Eastern Australia	8-10m	4-6m	3-4m	12m	8m	61

* As detailed in the Tree Planting Strategy, in this urban context tree species are not expected to achieve the same height and canopy spread as they would typically achieve in natural settings. This table details the estimated mature heights and canopy spreads based on observed performance of those species in other urban environments. These dimensions are used to calculate total mature canopy spread based on the planting plan.

CODE	BOTANICAL NAME	COMMON NAME	Indicative mature height (metre)	Pot Sizes	Indicative densities (p/m^2)
NATIVE GRASS PLANTING MIX					
Dre	*Dianella revoluta*	Blue Flax-Lily	1m	Tube	6
Lfl 'Sha'	*Lomandra fluviatilis 'Shara'*	Lomandra 'Shara'	0.4m	Tube	3
Llo 'Tan'	*Lomandra longifolia 'Tanika'*	Lomandra 'Tanika'	0.8m	Tube	4
Pla 'Esk'	*Poa labillardieri 'Eskdale'*	Poa 'Eskdale'	0.7m	Tube	6
Tau	*Themeda triandra*	Kangaroo Grass	1.2m	Tube	8
BATTER PLANTING HYDROSEED MIX					
	Acacia ulicifolia	Prickly Moses	3m	Seed	3%
	Bothriochloa macra	Red Leg Grass	1m	Seed	15%
	Callistemon pallidus	Lemon Bottlebrush	5m	Seed	2%
	Chloris truncata	Windmill Grass	1m	Seed	15%
	Danthonia tenuior	Wallaby Grass	1.2m	Seed	20%
	Hardenbergia violacea	Purple Coral Pea	0.5m	Seed	5%
	Kennedia rubicunda	Dusky Coral Pea	0.5m	Seed	5%
	Microlaena stipoides	Weeping Grass	0.7m	Seed	15%
	Themeda triandra	Kangaroo Grass	1.2m	Seed	20%

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