Appendix Y

Civil Engineering Drawings

CUDGEGONG ROAD STATION PRECINCT - TOWN CENTRE SOUTH

STATE SIGNIFICANT DEVELOPMENT APPLICATION

DRAWING LIST

DRAWING NUMBER	TITLE
GENERAL PLANS	
60558549-SHT-CI-0001	COVER SHEET
60558549-SHT-CI-0003	GENERAL NOTES
60558549-SHT-CI-0010	DEDICATION PLAN
60558549-SHT-CI-0011	KEY PLAN
60558549-SHT-CI-0021	GENERAL ARRANGEMENT
PUBLIC DOMAIN PLANS	
60558549-SHT-CI-0101	PUBLIC DOMAIN - PLAN - SHEET 01
60558549-SHT-CI-0102	PUBLIC DOMAIN - PLAN - SHEET 02
60558549-SHT-CI-0103	PUBLIC DOMAIN - PLAN - SHEET 03
60558549-SHT-CI-0104	PUBLIC DOMAIN - PLAN - SHEET 04
TYPICAL SITE SECTIONS	
60558549-SHT-CI-0121	TYPICAL SITE SECTION - SHEET 01
60558549-SHT-CI-0122	TYPICAL SITE SECTION - SHEET 02
60558549-SHT-CI-0123	TYPICAL SITE SECTION - SHEET 03
60558549-SHT-CI-0124	TYPICAL SITE SECTION - SHEET 04
60558549-SHT-CI-0125	TYPICAL SITE SECTION - SHEET 05
LONGITUDINAL SECTIONS	
60558549-SHT-CI-0161	PUBLIC DOMAIN LONGITUDINAL SECTIONS MC01 - SHEET 01
60558549-SHT-CI-0162	PUBLIC DOMAIN LONGITUDINAL SECTIONS MC01 - SHEET 02
60558549-SHT-CI-0163	PUBLIC DOMAIN LONGITUDINAL SECTIONS MC02 - SHEET 01
60558549-SHT-CI-0164	PUBLIC DOMAIN LONGITUDINAL SECTIONS MC02 - SHEET 02
EROSION AND SEDIMENTATION CONTROL PLANS	
60558549-SHT-CI-0201	EROSION AND SEDIMENTATION CONTROL - PLAN
60558549-SHT-CI-0221	EROSION AND SEDIMENTATION CONTROL DETAIL
DRAINAGE PLANS	
60558549-SHT-CI-0301	DRAINAGE - PLAN - SHEET 01
60558549-SHT-CI-0302	DRAINAGE - PLAN - SHEET 02
60558549-SHT-CI-0303	DRAINAGE - PLAN - SHEET 03
60558549-SHT-CI-0304	DRAINAGE - PLAN - SHEET 04
60558549-SHT-CI-0305	DRAINAGE - PLAN - SHEET 05
CATHMENT PLANS	
60558549-SHT-CI-0321	DRAINAGE CATHMENT - PLAN
DRAINAGE LONGITUDINAL SECTIONS	
60558549-SHT-CI-0401	DRAINAGE LONGITUDINAL SECTION - SHEET 01
60558549-SHT-CI-0402	DRAINAGE LONGITUDINAL SECTION - SHEET 02
60558549-SHT-CI-0403	DRAINAGE LONGITUDINAL SECTION - SHEET 03
60558549-SHT-CI-0404	DRAINAGE LONGITUDINAL SECTION - SHEET 04
60558549-SHT-CI-0405	DRAINAGE LONGITUDINAL SECTION - SHEET 05
60558549-SHT-CI-0406	DRAINAGE LONGITUDINAL SECTION - SHEET 06
60558549-SHT-CI-0407	DRAINAGE LONGITUDINAL SECTION - SHEET 07
60558549-SHT-CI-0408	DRAINAGE LONGITUDINAL SECTION - SHEET 08
60558549-SHT-CI-0409	DRAINAGE LONGITUDINAL SECTION - SHEET 09
SERVICES PLANS	
60558549-SHT-CI-0501	COMBINED SERVICES - PLAN - SHEET 01
60558549-SHT-CI-0502	COMBINED SERVICES - PLAN - SHEET 02
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60558549-SHT-CI-0504	COMBINED SERVICES - PLAN - SHEET 04
60558549-SHT-CI-0505	COMBINED SERVICES - PLAN - SHEET 05
60558549-SHT-CI-0511	SEWER CONNECTION - PLAN
VEHICLE TRACKING PLAN	
60558549-SHT-CI-0801	VEHICLE TRACKING - PLAN - SHEET 01
60558549-SHT-CI-0802	VEHICLE TRACKING - PLAN - SHEET 02
60558549-SHT-CI-0803	VEHICLE TRACKING - PLAN - SHEET 03
60558549-SHT-CI-0804	VEHICLE TRACKING - PLAN - SHEET 04
60558549-SHT-CI-0805	VEHICLE TRACKING - PLAN - SHEET 05

AECOM

PROJECT

CUDGEGONG ROAD STATION PRECINCT
TOWN CENTRE SOUTH
CIVIL PACKAGE

CLIENT

LANDCOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

SCALE BAR

PRELIMINARY

PROJECT MANAGEMENT INITIALS

J. CHAN	D. FETTELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

A	18/05/2018	ISSUED FOR PRELIMINARY
I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60558549

SHEET TITLE

COVER SHEET

SHEET 01

SHEET NUMBER

60558549-SHT-00-0000-CI-0001

ISO A1 594mm x 841mm

GENERAL

1 THE INFORMATION CONTAINED IN THESE DRAWINGS PRODUCED BY AECOM IS SOLELY FOR THE USE OF LANDCOM FOR THE PURPOSE FOR WHICH IT HAS BEEN PREPARED. AECOM AUSTRALIA PTY LTD UNDERTAKES NO DUTY TO OR ACCEPTS NO RESPONSIBILITY TO ANY THIRD PARTY WHO MAY RELY UPON THIS DOCUMENT.
2 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER ENGINEERING AND PUBLIC DOMAIN DRAWINGS, THE SPECIFICATION, BCC STANDARD DRAWINGS, AND WITH SUCH OTHER WRITTEN INSTRUCTIONS, AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
3 ANY DISCREPANCIES BETWEEN THESE NOTES AND DRAWINGS, AND BCC SPECIFICATIONS AND DETAILS, THE DRAWINGS WILL TAKE PRECEDENCE.
4 ANY DISCREPANCIES OR OMISSIONS FROM THESE DOCUMENTS SHALL BE REFERRED TO THE SUPERINTENDENT FOR A DECISION BEFORE PRECEDING WITH THE WORK.
5 ALL WORKMANSHIP AND MATERIALS TO COMPLY WITH THE BUILDING CODE OF AUSTRALIA AS AMENDED AND THE APPROPRIATE AND CURRENT AUSTRALIAN STANDARDS OR LOCAL STATUTORY AUTHORITY GUIDELINES.
6 ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE. ALL CHAINAGES AND LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
7 ALL DIMENSIONS RELEVANT TO SETTING OUT OR OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION HAS COMMENCED.
8 DO NOT SCALE FROM DRAWINGS.
9 ORIGIN OF LEVELS - AHD
COORDINATES TO MGA - MAP GRID AUSTRALIA.
10 WHERE NOTED ON DRAWINGS THAT WORKS ARE TO BE CARRIED OUT BY OTHERS, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COORDINATION OF THESE WORKS AND THIS WORK WILL NOT QUALIFY FOR DELAY CLAIMS.
11 WHERE A PROPRIETARY ITEM (OR EQUIVALENT) IS SPECIFIED, AND AN EQUIVALENT ITEM IS PROPOSED, THE CONTRACTOR SHALL PROVIDE MANUFACTURERS SPECIFICATIONS FOR BOTH PRODUCTS TO THE SUPERINTENDENT FOR APPROVAL, AND DEMONSTRATE THAT THE PRODUCT PERFORMANCE IS EQUIVALENT OR BETTER, PRIOR TO USE.
12 ALL PROPRIETARY PRODUCTS ARE TO BE INSTALLED FIXED AND TESTED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
13 DURING CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE STRUCTURES AND EXCAVATIONS ARE MAINTAINED IN A SAFE AND STABLE CONDITION AT ALL TIME AND NO PART IS TO BE OVERSTRESSED. THE CONTRACTOR SHALL DEVELOP WORK METHOD STATEMENTS FOR ALL ERECTION OF STRUCTURAL STEEL/FORMWORK/ DEMOLITION/EXCAVATION/TILT PANELS ETC. AND PROVIDE TEMPORARY WORKS SUCH AS BRACING, PROPPING AND SHORING ETC. TO KEEP THE WORKS AND EXCAVATIONS STABLE AND FREE FROM WATER AT ALL TIMES. THE CONTRACTOR IS TO ENGAGE A STRUCTURAL ENGINEER TO DESIGN AND CERTIFY THE TEMPORARY WORKS.

SITEWORKS

1 THE CONTRACTOR TO MAKE SMOOTH CONNECTION TO ANY EXISTING WORKS.
2 ON COMPLETION OF THE WORKS, THE CONTRACTOR MUST RESTORE OR REINSTATE ANY AREAS, STRUCTURES, PAVEMENTS OR UTILITY SERVICES DAMAGED OR DIRTIED DURING THE CONSTRUCTION, TO THE SATISFACTION OF THE SUPERINTENDENT OR THE ASSET OWNER.
3 ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
4 ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED IN ACCORDANCE WITH BCC STANDARD DRAWINGS
5 PROVIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE AND UNIT PAVEMENTS.
6 ASPHALTIC CONCRETE SHALL CONFORM TO RMS QA SPECIFICATION R116
7 ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS QA SPECIFICATION 3051 - GRANULAR BASE AND SUBBASE MATERIALS FOR SURFACED ROAD PAVEMENTS, COMPACTED TO 98% MODIFIED DENSITY IN ACCORDANCE WITHAS1289 5.2.1. FREQUENCY OF COMPACTION TESTING TO BE NO LESS THAN 1 TEST PER 50m2 OF BASECOURSE MATERIAL PLACED.
8 ALL SUBBASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS QA SPECIFICATION 3051 - GRANULAR BASE AND SUBBASE MATERIALS FOR SURFACED ROAD PAVEMENTS, COMPACTED TO 95% MODIFIED DENSITY IN ACCORDANCE WITHAS1289 5.2.1. FREQUENCY OF COMPACTION TESTING TO BE NO LESS THAN 1 TEST PER 50m2 OF BASECOURSE MATERIAL PLACED.
9 THE USE OF RECYCLED MATERIALS IS ENCOURAGED. IF THE CONTRACTOR INTENDS TO USE RECYCLED MATERIALS, A RECYCLED MATERIAL COMPLYING WITH RMS QA SPECIFICATION 3051 - GRANULAR BASE AND SUBBASE MATERIALS FOR SURFACED ROAD PAVEMENTS WILL BE CONSIDERED, SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF THE PRINCIPAL'S REPRESENTITIVE.
10 THE CONTRACTOR IS TO CONTINUE TO PROVIDE CERTIFICATION FOR ALL RECYCLED MATERIALS DURING THE COUSE OF CONSTRUCTION, AND WHERE MATERIAL THAT DOES NOT COMPLY, THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT WITH A SUITABLY COMPLIANT MATERIAL AT THEIR OWN BCCT.
11 SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT, THE INTENT SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY NOTED.

BULK EARTHWORKS

1 REFER TO THE FOLLOWING DOCUMENTS
A) 805 CUDGEGONG ROAD STAGE 3 REPORT BY NRT
B) 806 CUDGEGONG ROAD STATION CARPARK CIVIL STAGE 3B REPORT BY NRT.
2 THE CONTRACTOR MUST FAMILIARISE THEMSELVES WITH THE RECOMMENDATIONS OF BOTH THE GEOTECHNICAL REPORTS AND THE SITE REMEDIATION.
3 THE RAP DEFINES THE LEVEL OF REMEDIATION WITHIN THE ROAD RESERVE THAT IS EXPECTED AT THE COMPLETION OF THIS CONTRACT.
4 ALL WORKS WITHIN THE ROAD RESERVES TO ACHIEVE THE LEVEL OF REMEDIATION, AS DEFINED IN THE RAP, WILL FORM PART OF THIS CONTRACT AND MUST BE INCLUDED WITHIN THE CONTRACTORS PRICE.
5 THE CONTRACTOR WILL BE RESPONSIBLE FOR THE SAFE EXCAVATION, CONTAMINATION MANAGEMENT AND DISPOSAL OF ALL CONTAMINATED MATERIALS FOUND WITHIN ANY EXCAVATION IN UNREMEDIATED LAND OR BELOW THE HDPE MARKER LAYER. THIS MAY INCLUDE EXCAVATION TO ACHIEVE A RECOMMENDED MINIMUM CLEAN LAYER THICKNESS BELOW ROAD AREAS AND TRENCH EXCAVATIONS TO COMPLY WITH THE REQUIREMENTS OF THE RAP.
6 MATERIALS USED IN FILL MUST BE CLEAN IMPORTED GRANULAR VENM. THIS MATERIAL CAN BE SOURCED FROM SITE ONLY IF PERMITTED BY THE RWP.
7 ALL EXCAVATED MATERIAL NOT CLASSED AS VENM AND NOT ABLE TO BE REUSED, MUST BE STOCKPILED AS DIRECTED BY SUPERINTENDENT AND AS REQUIRED BY THE RAP.
8 COMPACTION, TESTING, FILLING, STANDARD DRY DENSITIES AND MOISTURE CONTENTS TO BE IN ACCORDANCE WITH THE SPECIFICATION.
9 ALL EARTHWORKS AREAS SHALL BE ROLLED EACH EVENING TO RESTRICT THE INGRESS FROM POTENTIAL WATER INGRESS.

SAFETY

1 THE CONTRACTOR IS RESPONSIBE FOR SAFETY ONSITE.
2 THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EXCAVATION WORKS IN A STABLE CONDITION, AND ENSURING NO PART SHALL BE OVERSTRESSED DURING CONSTRUCTION ACTIVITIES. PROVISION OF TEMPORARY BRACING, SHORING AND BATTERING IS BY THE CONTRACTOR AS REQUIRED TO PROVIDE A SAFE WORKING ENVIRONMENT.
3 THE CONTRACTOR MUST MAKE PROVISION FOR THE SAFETY OF NORMAL VEHICULAR TRAFFIC AND PEDESTRIANS, AND OTHERS INCLUDING UNAUTHORISED INTRUDERS.
4 ALL PITS, MANHOLES, PUMPSTATIONS AND OTHER CONFINED SPACES MUST BE FITTED WITH A CONFINED SPACE WARNING SIGN TO THE APPROVAL OF THE SUPERINTENDENT.
5 ALL CONDITIONS OF WITH THE ENVIRONMENTAL ASSESSMENT MUST BE MET.

EROSION AND SEDIMENT CONTROLS - GENERAL INSTRUCTIONS

1 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND TAKE ALL STEPS NECESSARY TO PROTECT THE ENVIRONMENT DURING THE COURSE OF THEIR CONTRACT AND IN PARTICULAR IMPLEMENT THE NECESSARY MEASURES FOR THE CONTROL OF EROSION AND SEDIMENTATION TO THE SATISFACTION OF ALL ADMINISTERING BODIES INCLUDING BLACKTOWN CITY COUNCIL, NSW OFFICE OF WATER, SYDNEY WATER, RMS AND NSW ENVIRONMENT AND HERITAGE.
2 THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE DRAWINGS SHALL ONLY BE USED AS A GUIDE BY THE CONTRACTOR AND SHALL REPRESENT THE MINIMUM REQUIREMENT ONLY.
3 EROSION AND SEDIMENTATION MEASURES ARE TO BE PROVIDED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORKS, ADJUSTED TO SUIT STAGING AND MAINTAINED FOR THE LIFE OF THE CONTRACT.
4 ALL MEASURES ARE TO BE DESIGNED AND IMPLEMENTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE "BLUE BOOK" - SOILS AND CONSTRUCTION AND BCC DCP, AND CONFIRMED AS A PART OF THEIR CONSTRUCTION MANAGEMENT OR QUALITY PLAN FOR THE SITE.
5 THE CONTRACTOR IS TO ARRANGE A PRE-CONSTRUCTION MEETING WITH BCC SOIL CONSERVATION CONSULTANT AND THE SUPERINTENDENT.
6 ALL MEASURES INCLUDING DIVERSION BANKS, CATCH AND DIVERSION DRAINS AND SILT FENCES SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF CONTRACT WORKS
7 DURING WINDY WEATHER, LARGE UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRAYING WITH CLEAN WATER TO CONTROL DUST
8 ALL STOCKPILES MUST NOT BE LOCATED IN AREAS SUBJECT TO LIKELY CONCENTRATIONS OF OVERLAND FLOWS, AND HAVE MEASURES APPLIED, SUCH AS SILT FENCING, TO PREVENT EROSION OF THE STOCKPILE.
9 CLEAN WATER IS TO BE DIVERTED AWAY FROM DISTURBED GROUND AND INTO THE DRAINAGE SYSTEM. ANY WATER ENTERING THE DRAINAGE SYSTEM MUST BE SEDIMENT FREE.

OTHER ENVIRONMENTAL NOTES

10 ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHING, LIGHT WEIGHT MATERIALS AND LITTER.

STORMWATER DRAINAGE

1 STORMWATER DESIGN CRITERIA
ROAD DRAINAGE
20 YEAR ARI - MINOR STORM EVENT
100 YEAR ARI - MAJOR STORM EVENT
2 PIPES 375mm DIA AND LARGER TO BE REINFORCED CONCRETE CLASS'4', 10/20 COVER, APPROVED SPIGGOT AND SOCKET WITH RUBBER RING JOINTS U.N.O. ALL PIPEWORK IS TO BE LAID WITH THE SOCKET FACING UPSTREAM. ALL WORKS ARE TO COMMENCE AT THE OUTLET END OF EACH LINE.
3 PIPES TO BE INSTALLED TO TYPE HS3 SUPPORT UNDER ROADS, PATHS AND DRIVEWAYS, AND TO TYPE HS2 ELSEWHERE, IN ACCORDANCE WITH AS3725. BACKFILLING AND MATERIALS IS TO BE IN ACCORDANCE WITH THE BACKFILLING SPECIFICATION.
4 PITS TO BE CONSTRUCTED IN ACCORDANCE WITH BCC STANDARD DETAILS. PRECAST PITS WILL NOT BE ACCEPTED UNLESS THROUGH EXPRESSED PERMISSION OF BCC.
5 CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
6 GRATES AND COVERS SHALL CONFORM TO CITY OF SYDNEY SPECIFICATION (B10).
7 AT ALL TIMES DURING CONSTRUCTION, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO PREVENT PERSONNEL FROM FALLING INTO PITS AND OPEN TRENCHES.
8 ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN, ARE TO BE INSPECTED AND CLEANED, AND ANY PART OF THAT SYSTEM IDENTIFIED AS WARRANTING REPAIR, SHALL BE REPORTED TO THE SUPERINTENDENT FOR FURTHER DIRECTION.
9 CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT PIPES FROM DAMAGE DUE TO HEAVY CONSTRUCTION LOADING. CONTRACTOR TO UNDERTAKE PRE AND POST CONSTRUCTION CCTV INSPECTIONS FOR ALL PIPE LINES IMPACTED BY THE WORKS, TO BE PROVIDED TO LANDCOM FOR ACCEPTANCE PRIOR TO HAND-OVER.
10 THE CONTRACTOR IS TO MANAGE AND STAGE CONSTRUCTION WORKS, INCLUDING PROVIDING TEMPORARY DIVERSION WORKS IF NECESSARY, TO ENSURE ANY EXISTING DRAINAGE SYSTEM IS ABLE TO PERFORM TO ITS CURRENT STANDARD.
11 THE CONTRACTOR SHALL PROTECT THE WORKS IN PROGRESS. ANY DAMAGE TO THE WORKS IN PROGRESS, INCLUDING FROM STORMWATER FLOWS OR FLOODING, IS AT THE CONTRACTOR'S RISK.

SURVEY NOTES

THE SURVEY INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. AECOM DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT THE SUPERINTENDENT.

UTILITY SERVICES

1 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL PUBLIC OR PRIVATE SERVICE PROVIDER DRAWING.,
2 EXISTING UTILITIES SHOWN ON DRAWINGS ARE INDICATIVE ONLY AND MAY NOT INCLUDE ALL SERVICES PRESENT. AECOM TAKES NO RESPONSIBILITY FOR THE UTILITY INFORMATION AS SHOWN ON THESE DRAWINGS.
3 IT IS THE CONTRACTORS RESPONSIBILITY TO LIAISE WITH EACH UTILITY SERVICE PROVIDER ON SITE, TO LOCATE AND IDENTIFY THE SIZE, POSITION, LINE AND LEVEL OF ALL UTILITY SERVICES IN BOTH PUBLIC AND PRIVATE LAND, PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
4 THE CONTRACTOR MUST TAKE EVERY PRECAUTION TO PROTECT EXISTING AND NEW UTILITY SERVICES THROUGH THE COURSE OF THE CONTRACT.
5 THE EXECUTION OF ALL WORKS INVOLVING UTILITY SERVICES, EITHER NEW OR EXISTING, IS THE RESPONSIBILITY OF THE CONTRACTOR AND FORM PART OF THE CONTRACT PRICE, UNLESS SPECIFICALLY NOTED OTHERWISE.
6 ALL WORKS INVOLVING UTILITY SERVICES TO BE UNDERTAKEN TO THE SATISFACTION OF THE UTILITY SERVICE PROVIDER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ENGAGING WITH THE UTILITY SERVICE PROVIDER, THE EXECUTION OF THE WORK TO THEIR REQUIREMENTS AND PROCUREMENT OF APPROVALS FOR WORKS UNDERTAKEN.
6 ALL WORKS INVOLVING UTILITY SERVICES MUST ONLY BE UNDERTAKEN USING PLANS APPROVED BY THE UTILITY SERVICE PROVIDER.
7 THE CONTRACTOR SHALL ALLOW IN THEIR CONTRACT PRICE FOR CONDUIT CROSSINGS UNDER THE PROPOSED ROADS AS SHOWN ON THE DRAWINGS. ALL UTILITY AUTHORITY REPRESENTATIVES TO INSPECT THEIR CONDUIT CROSSINGS PRIOR TO PAVEMENT SEALING.
8 THE CONTRACTOR IS TO COORDINATE THE INSTALLATION OF ELECTRICITY, GAS AND TELECOMMUNICATIONS SERVICES. ELECTRICITY, GAS AND TELECOMMUNICATIONS SERVICES ARE TO BE LAID FOLLOWING THE INSTALLATION OF STORMWATER, SEWER AND WATER SERVICES, AND KERB AND GUTTER.
9 ALL SERVICE PIT COVERS AND MARKERS ARE TO BE PLACED IN ACCORDANCE WITH THE LOCATIONS AS SHOWN ON THE PUBLIC DOMAIN DRAWINGS, AND IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATION.
10 ALL SERVICE PIT COVERS TO BE PLACED AT FINISHED SURFACE LEVELS TO MATCH THE PROPOSED LONGITUDINAL AND CROSS FALL GRADES OF THE FOOTPATH OR ROADWAY IT IS CONTAINED WITHIN.
11 NO PIPE OR TRENCH SHALL BE LOCATED WITHIN THE ZONE OF INFLUENCE (1V:2H) OF A FOOTING.
12 MINIMUM CLEARANCES BETWEEN SERVICES TO BE PROVIDED UNLESS DIRECTED BY THE SUPERINTENDENT.
13 "WORKS AS CONSTRUCTED" SURVEY ON ALL UTILITY WORK SHALL BE RECORDED PRIOR TO ANY BACKFILLING.

TELSTRA DUTY OF CARE

TELSTRA'S PLANS SHOW ONLY THE PRESENCE OF CABLES AND PLANT. THEY ONLY SHOW THEIR POSITION RELATIVE TO ROAD BOUNDARIES, PROPERTY FENCES ETC. AT THE TIME OF INSTALLATION AND TELSTRA DOES NOT WARRANT OR HOLD OUT THAT SUCH PLANS ARE ACCURATE THEREAFTER DUE TO CHANGES THAT MAY OCCUR OVER TIME. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY. THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR TELSTRA CABLES AND PLANT. BEFORE USING MACHINE EXCAVATORS, TELSTRA PLANT MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POTHOLING TO IDENTIFY IT'S LOCATION. TELSTRA WILL SEEK COMPENSATION FOR DAMAGES CAUSED TO IT'S PROPERTY AND LOSSES CAUSED TO TELSTRA AND IT'S CUSTOMERS

KERB NOTES

1 ALL CONCRETE FOR KERBS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa U.N.O. IN THE DRAWINGS.
2 ALL KERBS, GUTTERS AND CROSSINGS TO BE CONSTRUCTED ON 150mm (DGB20), COMPACTED TO MINIMUM 98% STANDARD MDD (AS1289 5.2.1)
3 EXPANSION JOINTS (E.J.) TO BE FORMED FROM 15mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT PITS, ON TANGENT POINTS OF CURVES, AND ELSEWHERE AT 12m CENTRES, EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
4 WEAKENED PLANE JOINTS TO BE 5mm WIDE AND LOCATED AT 3m CENTRES, EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
5 BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISH.
6 IN REPLACEMENT OF KERB AND GUTTER, THE EXISTING ROAD PAVEMENT IS TO BE SAWCUT AND REINSTATED IN ACCORDANCE WITH THE STANDARD DETAIL IN THESE DRAWINGS.
7 PRAM RAMPS SHALL BE IN ACCORDANCE WITH STANDARD DETAIL IN THESE DRAWINGS AND ALL LOCATIONS ARE TO BE VERIFIED ON SITE WITH THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF CONSTRUCTION.

AECOM

PROJECT

CUDGEGONG ROAD STATION PRECINCT
TOWN CENTRE SOUTH CIVIL PACKAGE

CLIENT

LANDCOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

SCALE BAR

PRELIMINARY

PROJECT MANAGEMENT INITIALS

J. CHAN	D. FETTELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

A	18/05/2018	ISSUED FOR PRELIMINARY
I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60558549

SHEET TITLE

GENERAL NOTES

SHEET 01

SHEET NUMBER

60558549-SHT-00-0000-CI-0003

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ISO A1 594mm x 841mm

AECOM

PROJECT

CUDGEGONG ROAD STATION PRECINCT
TOWN CENTRE SOUTH CIVIL PACKAGE

CLIENT

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LEGEND

- PROPOSED BUILDING OUTLINE
- SYDNEY METRO
- ROADS AND MARITIME SERVICES
- BLACKTOWN CITY COUNCIL
- PRIVATE DEVELOPMENT SITE
- PUBLIC WITH DRAINAGE EASEMENT
- PRIVATE WITH PUBLIC EASEMENT
- PRIVATE WITH DRAINAGE EASEMENT

SCALE BAR

0 25 50 m
1:1000

PRELIMINARY

PROJECT MANAGEMENT INITIALS

J. CHAN	D. FETTELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
A	18/05/2018	ISSUED FOR PRELIMINARY

KEY PLAN

PROJECT NUMBER

60558549

SHEET TITLE

DEDICATION - INDICATIVE

SHEET 01

SHEET NUMBER

60558549-SHT-00-0000-CI-0010

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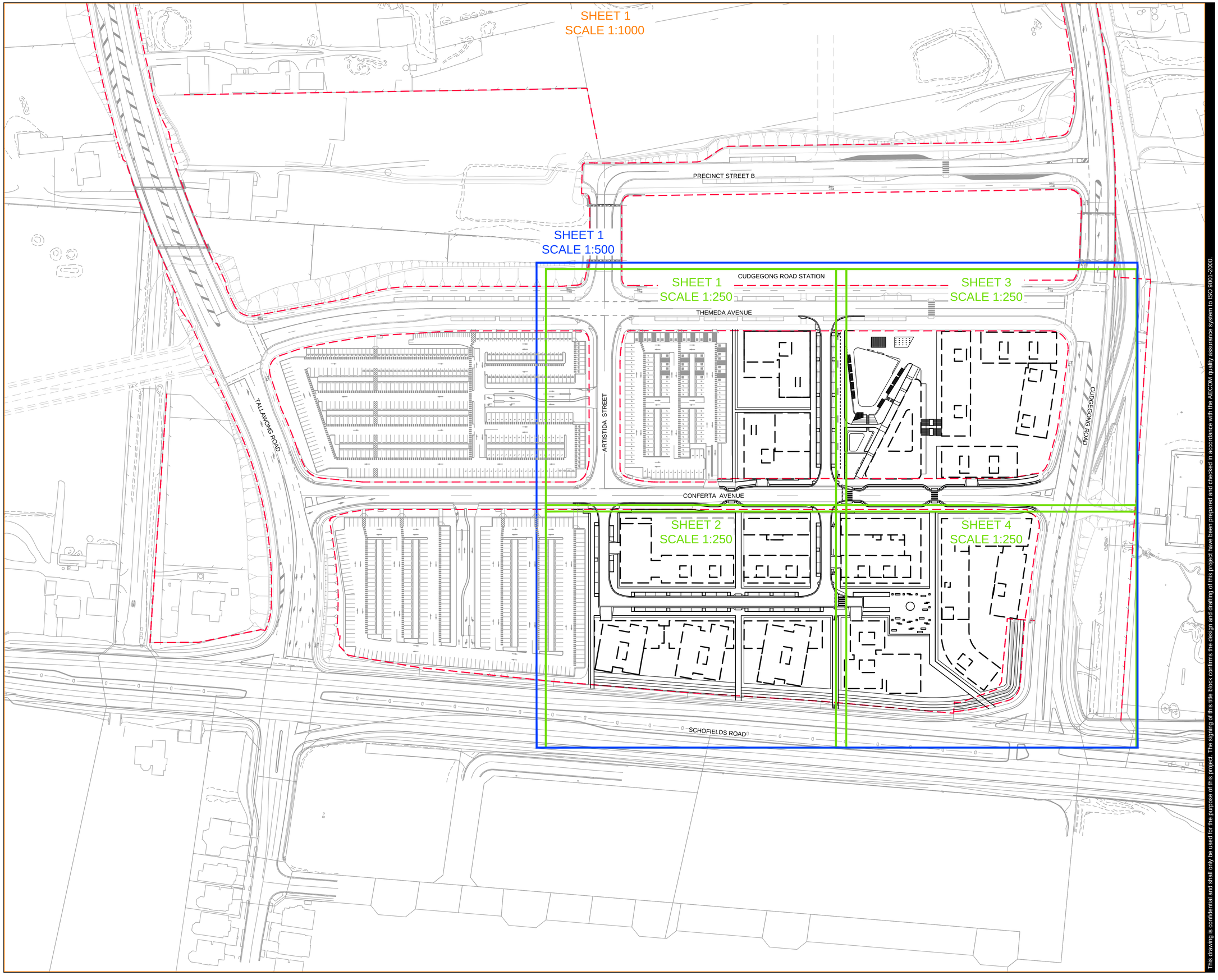
ISO A1 594mm x 841mm



AECOM

PROJECT

CUDGEGONG ROAD STATION PRECINCT
TOWN CENTRE SOUTH CIVIL PACKAGE

CLIENT

LANDCOM

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A.B.N 20 093 846 925
www.aecom.com

LEGEND

— — — PROPOSED BUILDING OUTLINE

SCALE BAR

0 25 50 m
1:1000

PRELIMINARY

PROJECT MANAGEMENT INITIALS

J. CHAN	D. FETTELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
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KEY PLAN

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60558549

SHEET TITLE

KEY PLAN

SHEET 01

SHEET NUMBER

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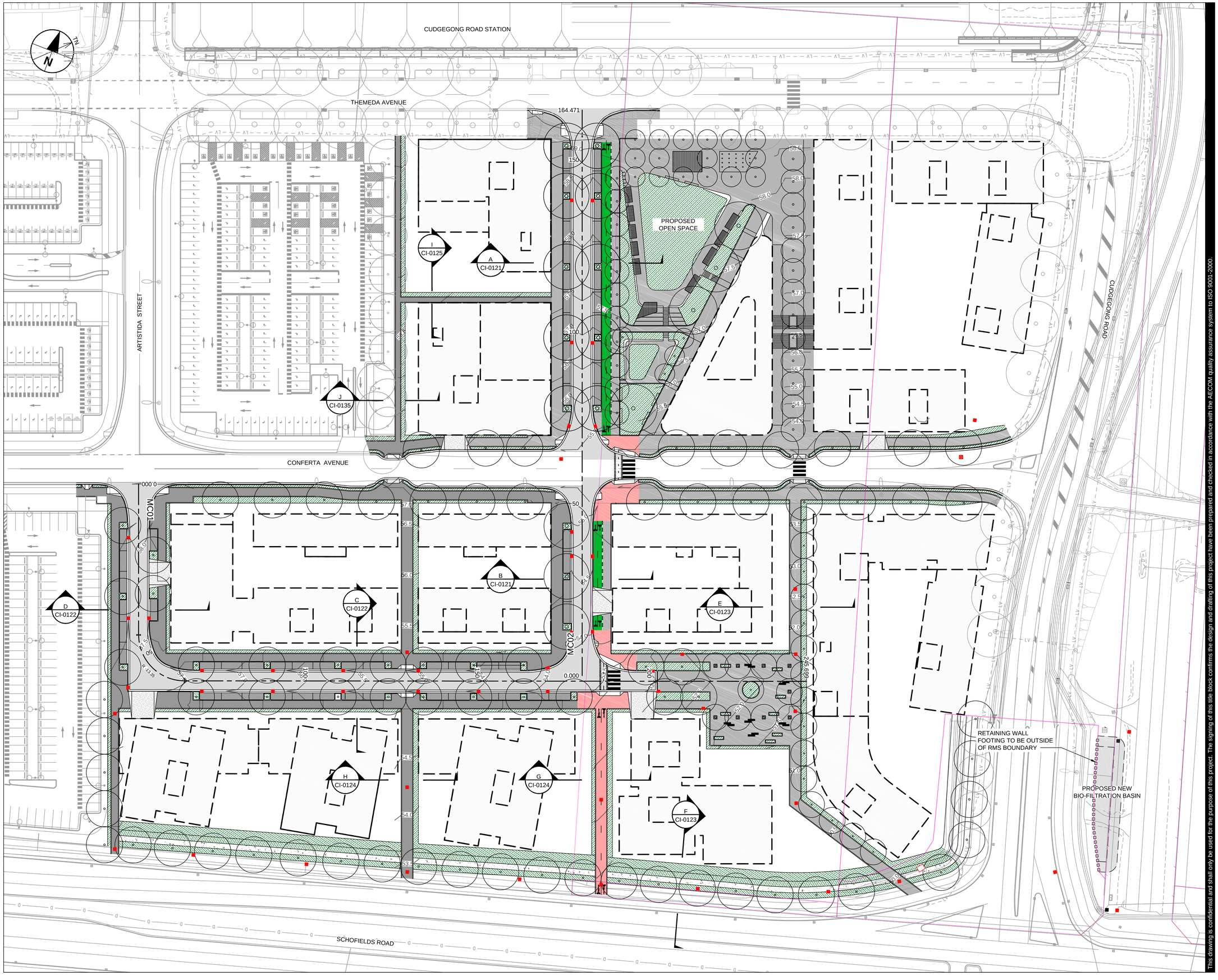
ISO A1 594mm x 841mm



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This drawing is confidential and shall only be used for the purpose of this project. The signing of this title block confirms the design and drafting of this project have been prepared and checked in accordance with the AECOM quality assurance system to ISO 9001:2000.

AECOM

PROJECT

CUDGEGONG ROAD STATION PRECINCT
TOWN CENTRE SOUTH CIVIL PACKAGE

CLIENT

LANDCOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

LEGEND

- PROPOSED BUILDING OUTLINE
- PRAM RAMP
- DRIVEWAY CROSSING
- FUTURE BUILDING STRUCTURE
- FOOTPATH PAVEMENT
- BIKE PATH
- COMBINED FOOT & BIKE PATH
- LANDSCAPING
- PARKING BAY
- FLEXIBLE ROAD PAVEMENT
- PROPOSED TREE
- DRAINAGE PITS (REFER DRAINAGE DRAWINGS FOR DETAILS)
- FUTURE PEDESTRIAN CROSSING

SCALE BAR

0 12.5 25 m
1:500

PRELIMINARY

PROJECT MANAGEMENT INITIALS

J. CHAN	D. FETTELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
A	18/05/2018	ISSUED FOR PRELIMINARY

KEY PLAN

PROJECT NUMBER

60558549

SHEET TITLE

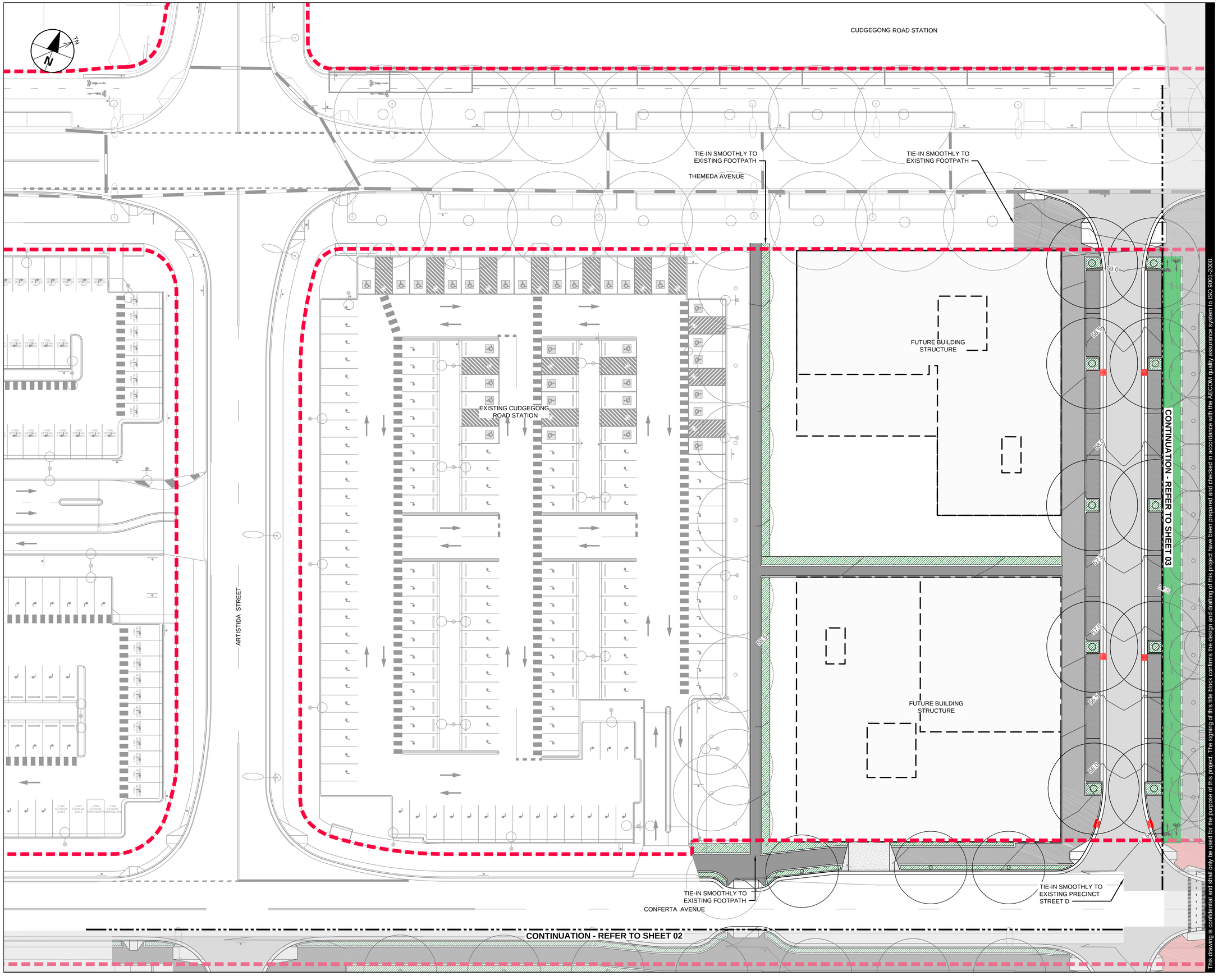
GENERAL ARRANGEMENT

SHEET 01

SHEET NUMBER

60558549-SHT-00-0000-CI-0021

ISO A1 594mm x 841mm



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Filename: \\AUSYD1FP001\PROJECTS\605x\60558549\5. CAD\20-SHEETS\60558549-SHT-00-0000-CI-0101.DWG

AECOM

PROJECT

CUDGEGONG ROAD STATION PRECINCT
TOWN CENTRE SOUTH CIVIL PACKAGE

CLIENT

LANDCOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

LEGEND

- PROPOSED BUILDING OUTLINE
- 56.5 MAJOR COUNTOURS
- PRAM RAMP
- DRIVEWAY CROSSING
- FUTURE BUILDING STRUCTURE
- FOOTPATH PAVEMENT
- BIKE PATH
- COMBINED FOOT & BIKE PATH
- LANDSCAPING
- PARKING BAY
- FLEXIBLE ROAD PAVEMENT
- PROPOSED TREE
- LIGHTING COLUMNS
- DRAINAGE PITS (REFER DRAINAGE DRAWINGS FOR DETAILS)
- PROPOSED PEDESTRIAN CROSSIN

SCALE BAR

0 6.25 12.5 m
1:250

PRELIMINARY

PROJECT MANAGEMENT INITIALS

J. CHAN	D. FETTELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

A	18/05/2018	ISSUED FOR PRELIMINARY
I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60558549

SHEET TITLE

PUBLIC DOMAIN
PLAN
SHEET 01

SHEET NUMBER

60558549-SHT-00-0000-CI-0101

ISO A1 594mm x 841mm

AECOM

PROJECT

CUDGEGONG ROAD STATION PRECINCT
TOWN CENTRE SOUTH CIVIL PACKAGE

CLIENT

LANDCOM

CONSULTANT

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A.B.N 20 093 846 925
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LEGEND

- PROPOSED BUILDING OUTLINE
- 56.5 MAJOR COUNTOURS
- PRAM RAMP
- DRIVEWAY CROSSING
- FUTURE BUILDING STRUCTURE
- FOOTPATH PAVEMENT
- BIKE PATH
- COMBINED FOOT & BIKE PATH
- LANDSCAPING
- PARKING BAY
- FLEXIBLE ROAD PAVEMENT
- PROPOSED TREE
- LIGHTING COLUMNS
- DRAINAGE PITS (REFER DRAINAGE DRAWINGS FOR DETAILS)
- PROPOSED PEDESTRIAN CROSSIN

SCALE BAR

0 6.25 12.5 m

1:250

PRELIMINARY

PROJECT MANAGEMENT INITIALS

J. CHAN	D. FETTELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
A	18/05/2018	ISSUED FOR PRELIMINARY

KEY PLAN

PROJECT NUMBER

60558549

SHEET TITLE

PUBLIC DOMAIN
PLAN
SHEET 02

SHEET NUMBER

60558549-SHT-00-0000-CI-0102

Last saved by: DUTOITM(2018-04-11) Last Plotted: 2018-05-18
Filename: \\AUSYD1FP001\PROJECTS\605X\60558549\5. CAD\20-SHEETS\60558549-SHT-00-0000-CI-0102.DWG

ISO A1 594mm x 841mm

RECONSTRUCT KERB TO MATCH EXISTING LEVELS

EXISTING PARKING BAY TO BE EXTENDED TO MINIMUM 6.3m

TIE-IN SMOOTHLY TO EXISTING FOOTPATH

FUTURE BUILDING STRUCTURE

FUTURE BUILDING STRUCTURE

58.5
58.0
58.0
57.5
57.5
57.0
57.0
56.5
56.5
56.0
55.5
55.0
54.5
54.0

CONTINUATION - REFER TO SHEET 01

CONTINUATION - REFER TO SHEET 02

EXISTING SIGNAGE TO BE MOVED TO EDGE OF KERB

EXISTING SIGNAGE TO BE RELOCATED EAST OF DRIVEWAY CROSSING.

TIE-IN SMOOTHLY TO EXISTING FOOTPATH

CUDGEGONG ROAD

AECOM

PROJECT

CUDGEGONG ROAD STATION PRECINCT

TOWN CENTRE SOUTH CIVIL PACKAGE

CLIENT

LANDCOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

LEGEND

- PROPOSED BUILDING OUTLINE
- 56.5 MAJOR COUNTOURS
- PRAM RAMP
- DRIVEWAY CROSSING
- FUTURE BUILDING STRUCTURE
- FOOTPATH PAVEMENT
- BIKE PATH
- COMBINED FOOT & BIKE PATH
- LANDSCAPING
- PARKING BAY
- FLEXIBLE ROAD PAVEMENT
- PROPOSED TREE
- LIGHTING COLUMNS
- DRAINAGE PITS (REFER DRAINAGE DRAWINGS FOR DETAILS)
- PROPOSED PEDESTRIAN CROSSIN

SCALE BAR

0 6.25 12.5 m
1:250

PRELIMINARY

PROJECT MANAGEMENT INITIALS

J. CHAN	D. FETTELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
A	18/05/2018	ISSUED FOR PRELIMINARY

KEY PLAN

PROJECT NUMBER

60558549

SHEET TITLE

PUBLIC DOMAIN
PLAN
SHEET 03

SHEET NUMBER

60558549-SHT-00-0000-CI-0103

Last saved by: DUTOITM(2018-04-11) Last Plotted: 2018-05-18
Filename: \\AUSYD1FP001\PROJECTS\605X\60558549\5. CAD\20-SHEETS\60558549-SHT-00-0000-CI-0103.DWG

ISO A1 594mm x 841mm

CONTINUATION - REFER TO SHEET 03

CONTINUATION - REFER TO SHEET 04

FUTURE BUILDING STRUCTURE

FUTURE BUILDING STRUCTURE

FUTURE BUILDING STRUCTURE

FUTURE BUILDING STRUCTURE

TIE-IN SMOOTHLY TO EXISTING FOOTPATH

PIPED CROSSING AT FOOTPATH

TIE-IN SMOOTHLY WITH EXISTING FOOTPATH

53.5

53.0

52.5

52.0

51.5

51.0

50.5

50.0

AECOM

PROJECT

CUDGEGONG ROAD STATION PRECINCT
TOWN CENTRE SOUTH CIVIL PACKAGE

CLIENT

LANDCOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

LEGEND

- PROPOSED BUILDING OUTLINE
- MAJOR COUNTOURS (56.5)
- PRAM RAMP
- DRIVEWAY CROSSING
- FUTURE BUILDING STRUCTURE
- FOOTPATH PAVEMENT
- BIKE PATH
- COMBINED FOOT & BIKE PATH
- LANDSCAPING
- PARKING BAY
- FLEXIBLE ROAD PAVEMENT
- PROPOSED TREE
- LIGHTING COLUMNS
- DRAINAGE PITS (REFER DRAINAGE DRAWINGS FOR DETAILS)
- PROPOSED PEDESTRIAN CROSSIN

SCALE BAR

0 6.25 12.5 m

1:250

PRELIMINARY

PROJECT MANAGEMENT INITIALS

J. CHAN	D. FETTELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
A	18/05/2018	ISSUED FOR PRELIMINARY

KEY PLAN

PROJECT NUMBER

60558549

SHEET TITLE

PUBLIC DOMAIN
PLAN
SHEET 04

SHEET NUMBER

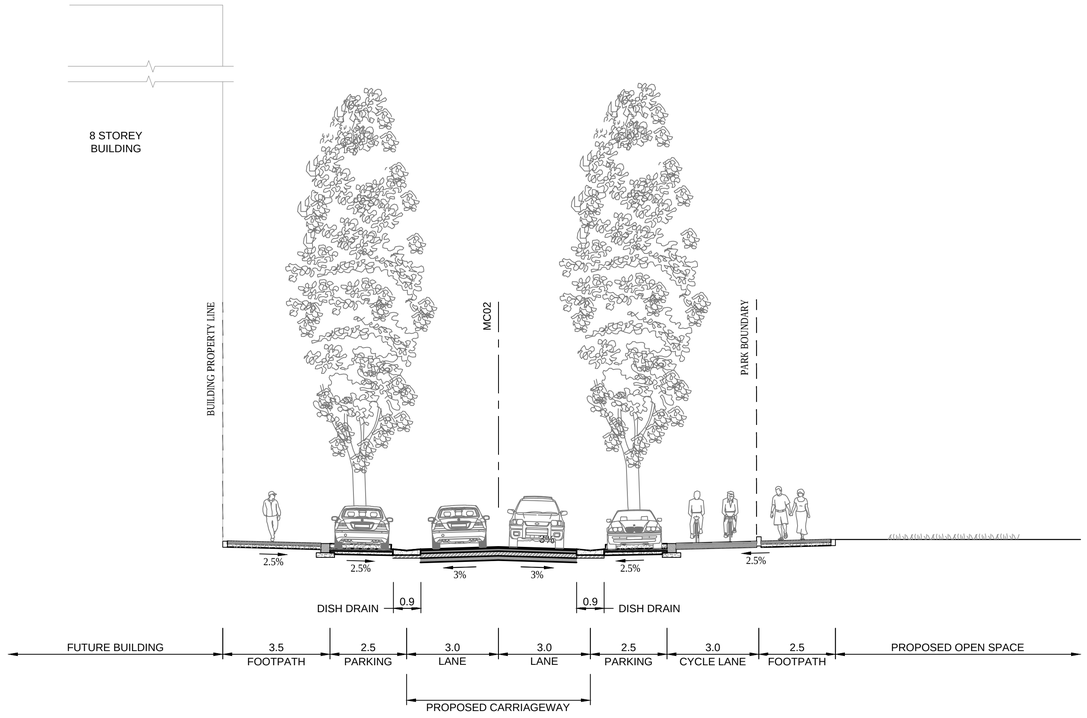
60558549-SHT-00-0000-CI-0104

Last saved by: DUTOITM(2018-04-11) Last Plotted: 2018-05-18
Filename: \\AUSYD1FP001\PROJECTS\605X\60558549\5. CAD\20-SHEETS\60558549-SHT-00-0000-CI-0104.DWG

ISO A1 594mm x 841mm

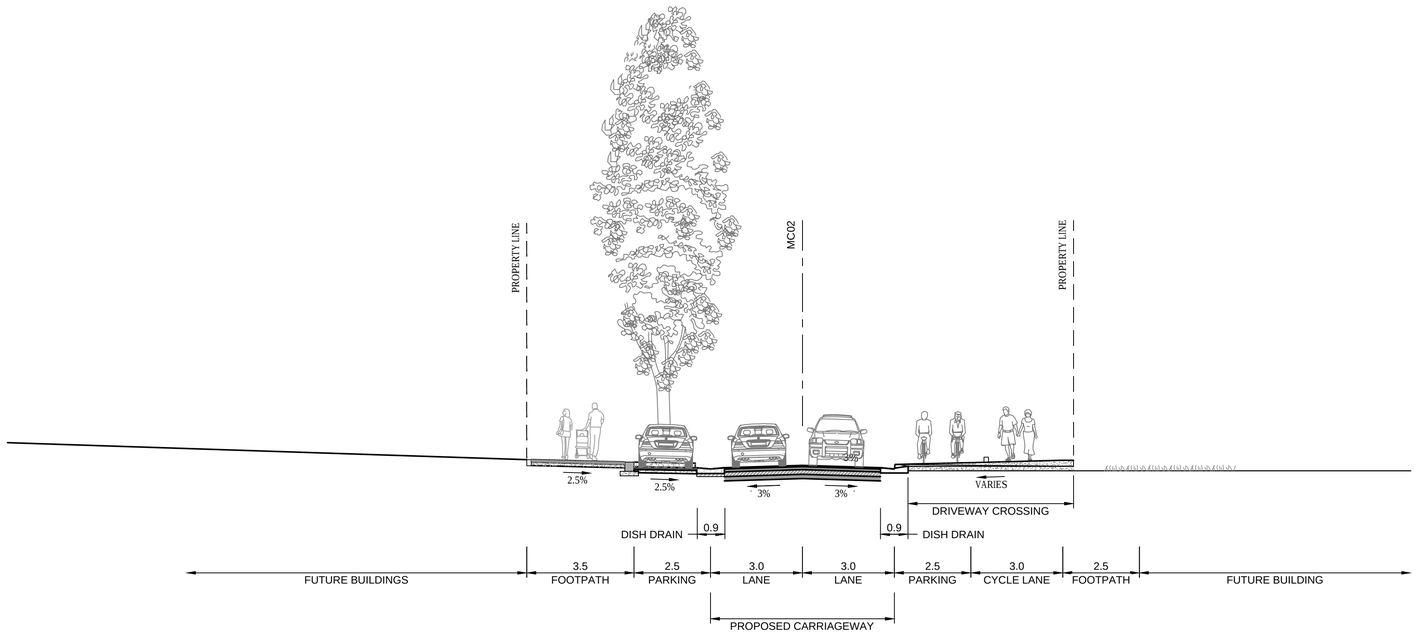
NOTES

1. REFER TO SCHEDULE FOR CUDGEGONG ROAD (AREA 20) PRECINCT DEVELOPMENT CONTROL PLAN AND BLACKTOWN CITY COUNCIL GROWTH CENTER PRECINCT DEVELOPMENT CONTROL PLAN FOR FURTHER DETAILS ON ROAD CROSS SECTIONS.
2. REFER TO BLACKTOWN CITY COUNCIL ENGINEERING GUIDE FOR DEVELOPMENT (2005) FOR FURTHER INFORMATION ON REQUIRED GRADING.



1 | SECTION A

CI-0021 | SCALE 1:100



2 | SECTION B

CI-0021 | SCALE 1:100

AECOM

PROJECT

CUDGEGONG ROAD STATION PRECINCT
TOWN CENTRE SOUTH CIVIL PACKAGE

CLIENT

LANDCOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

SCALE BAR

0 2.5 5 m
1:100

PRELIMINARY

PROJECT MANAGEMENT INITIALS

J. CHAN	D. FETTELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
A	18/05/2018	ISSUED FOR PRELIMINARY

KEY PLAN

PROJECT NUMBER

60558549

SHEET TITLE

TYPICAL SITE SECTION

SHEET 01

SHEET NUMBER

60558549-SHT-00-0000-CI-0121

Last saved by: DUTOITM(2018-04-11) Last Plotted: 2018-05-18
Filename: \\AUSYD1FP001\PROJECTS\605X\60558549\5. CAD\20-SHEETS\60558549-SHT-00-0000-CI-0121.DWG

ISO A1 594mm x 841mm

NOTES

1. REFER TO SCHEDULE FOR CUDGEGONG ROAD (AREA 20) PRECINCT DEVELOPMENT CONTROL PLAN AND BLACKTOWN CITY COUNCIL GROWTH CENTER PRECINCT DEVELOPMENT CONTROL PLAN FOR FURTHER DETAILS ON ROAD CROSS SECTIONS.
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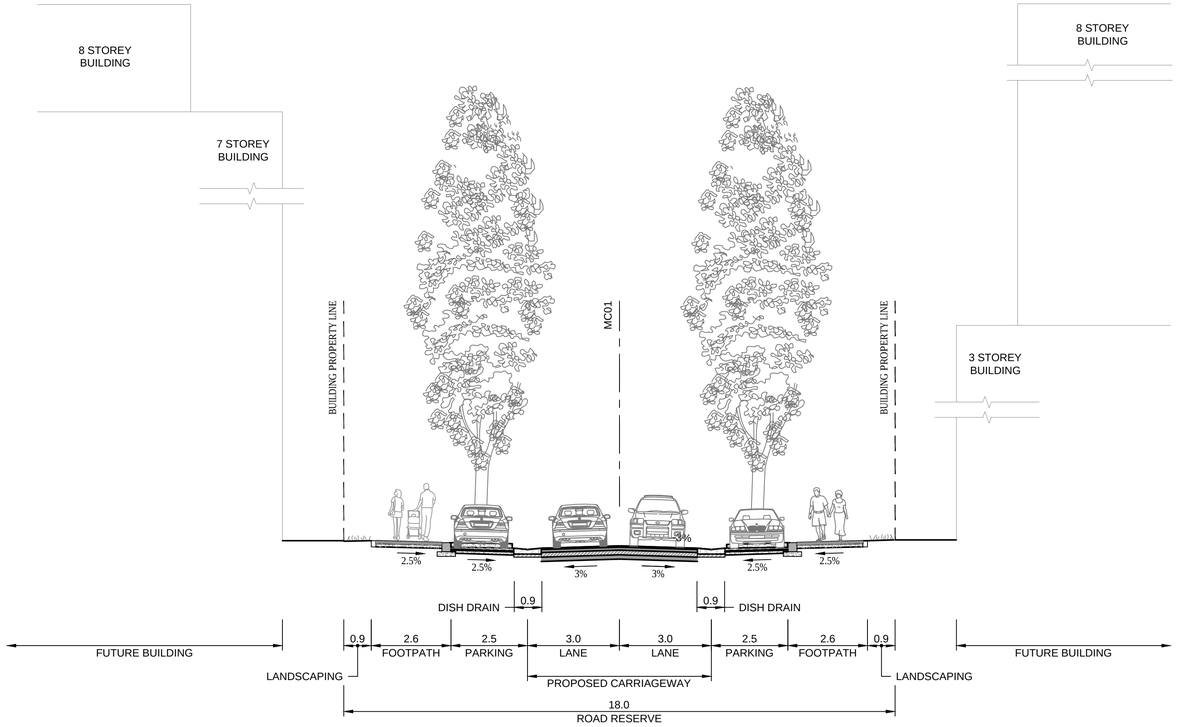
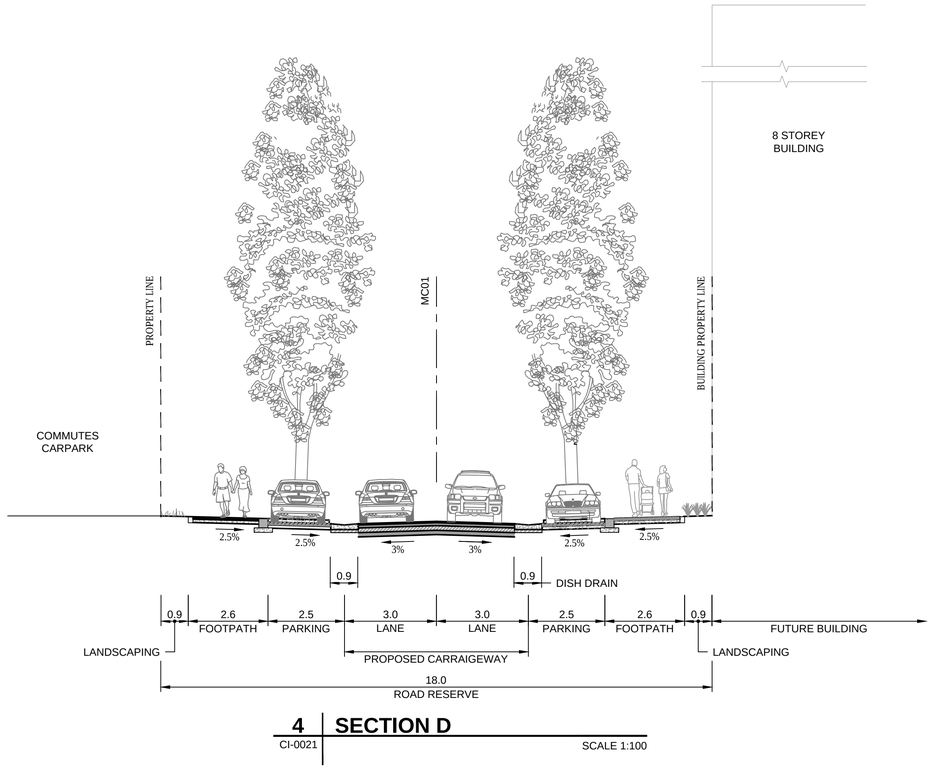


3 | SECTION C

CI-0021 | SCALE 1:100



4 | SECTION D

CI-0021 | SCALE 1:100

AECOM

PROJECT

CUDGEGONG ROAD STATION PRECINCT
TOWN CENTRE SOUTH CIVIL PACKAGE

CLIENT

LANDCOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

SCALE BAR

0 2.5 5 m

1:100

PRELIMINARY

PROJECT MANAGEMENT INITIALS

J. CHAN	D. FETTELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
A	18/05/2018	ISSUED FOR PRELIMINARY

KEY PLAN

PROJECT NUMBER

60558549

SHEET TITLE

TYPICAL SITE SECTION

SHEET 02

SHEET NUMBER

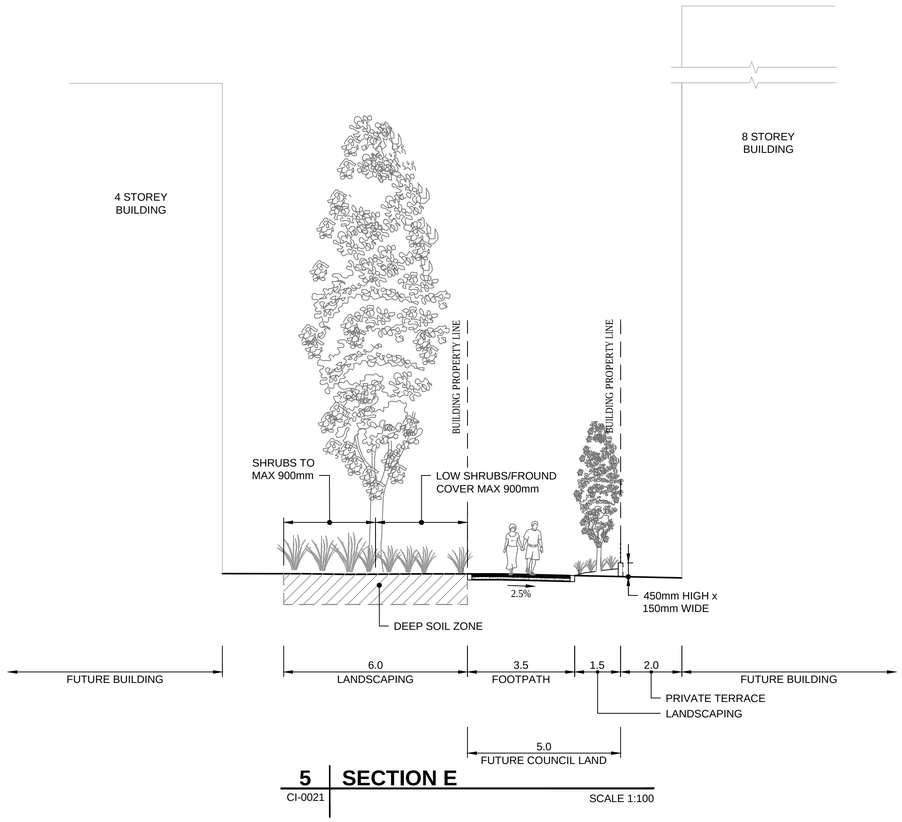
60558549-SHT-00-0000-CI-0122

Last saved by: DUTOITM(2018-04-11) Last Plotted: 2018-05-18
Filename: \\AUSYD1FP001\PROJECTS\605X\60558549\5. CAD\20-SHEETS\60558549-SHT-00-0000-CI-0122.DWG

ISO A1 594mm x 841mm

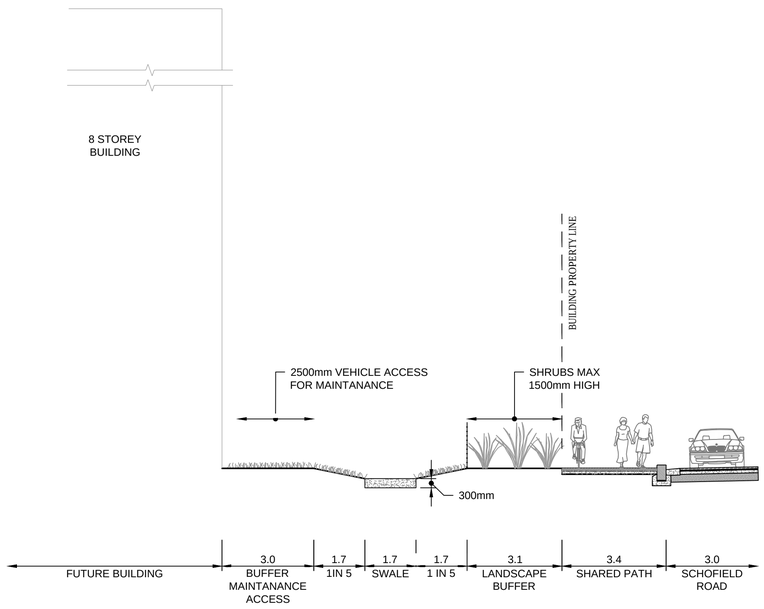
NOTES

1. REFER TO SCHEDULE FOR CUDGEGONG ROAD (AREA 20) PRECINCT DEVELOPMENT CONTROL PLAN AND BLACKTOWN CITY COUNCIL GROWTH CENTER PRECINCT DEVELOPMENT CONTROL PLAN FOR FURTHER DETAILS ON ROAD CROSS SECTIONS.
2. REFER TO BLACKTOWN CITY COUNCIL ENGINEERING GUIDE FOR DEVELOPMENT (2005) FOR FURTHER INFORMATION ON REQUIRED GRADING.



5 | SECTION E

CI-0021 | SCALE 1:100



6 | SECTION F

CI-0021 | SCALE 1:100

AECOM

PROJECT

CUDGEGONG ROAD STATION PRECINCT
TOWN CENTRE SOUTH
CIVIL PACKAGE

CLIENT

LANDCOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

SCALE BAR

0 2.5 5 m
1:100

PRELIMINARY

PROJECT MANAGEMENT INITIALS

J. CHAN	D. FETTELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
A	18/05/2018	ISSUED FOR PRELIMINARY

KEY PLAN

PROJECT NUMBER

60558549

SHEET TITLE

TYPICAL SITE SECTION

SHEET 03

SHEET NUMBER

60558549-SHT-00-0000-CI-0123

Last saved by: DUTOITM(2018-04-11) Last Plotted: 2018-05-18
Filename: \\AUSYD1FP001\PROJECTS\605X\60558549\5. CAD\20-SHEETS\60558549-SHT-00-0000-CI-0123.DWG

NOTES

1. REFER TO SCHEDULE FOR CUDGEGONG ROAD (AREA 20) PRECINCT DEVELOPMENT CONTROL PLAN AND BLACKTOWN CITY COUNCIL GROWTH CENTER PRECINCT DEVELOPMENT CONTROL PLAN FOR FURTHER DETAILS ON ROAD CROSS SECTIONS.
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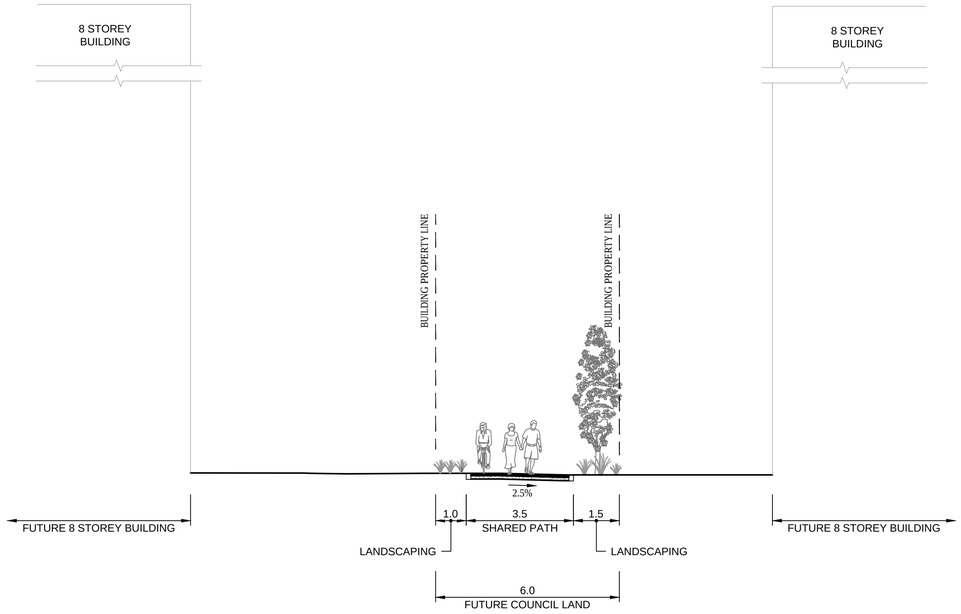
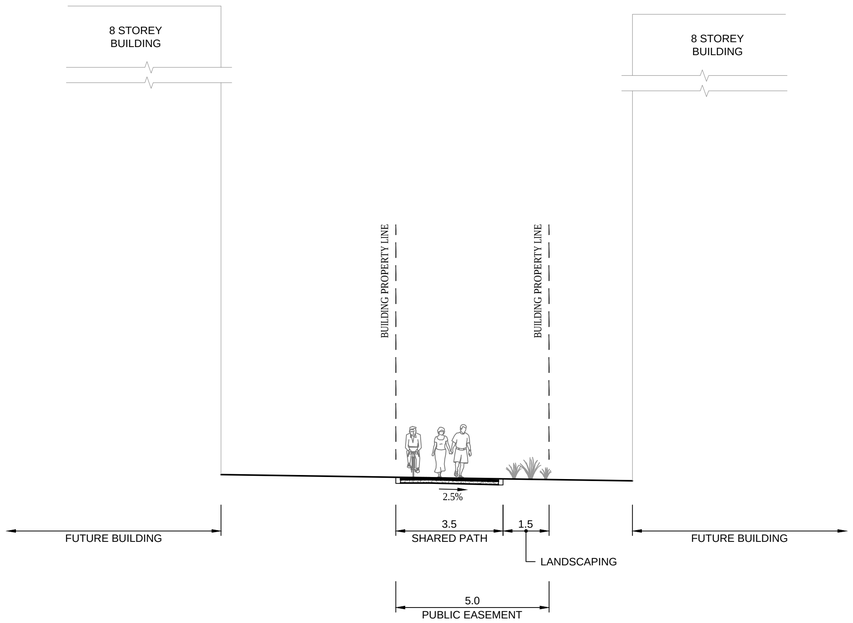


7 | SECTION G

CI-0021 | SCALE 1:100



8 | SECTION H

CI-0021 | SCALE 1:100

AECOM

PROJECT

CUDGEGONG ROAD STATION PRECINCT

TOWN CENTRE SOUTH CIVIL PACKAGE

CLIENT

LANDCOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

SCALE BAR

0 2.5 5 m

1:100

PRELIMINARY

PROJECT MANAGEMENT INITIALS

J. CHAN	D. FETTELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

A	18/05/2018	ISSUED FOR PRELIMINARY
I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60558549

SHEET TITLE

TYPICAL SITE SECTION

SHEET 04

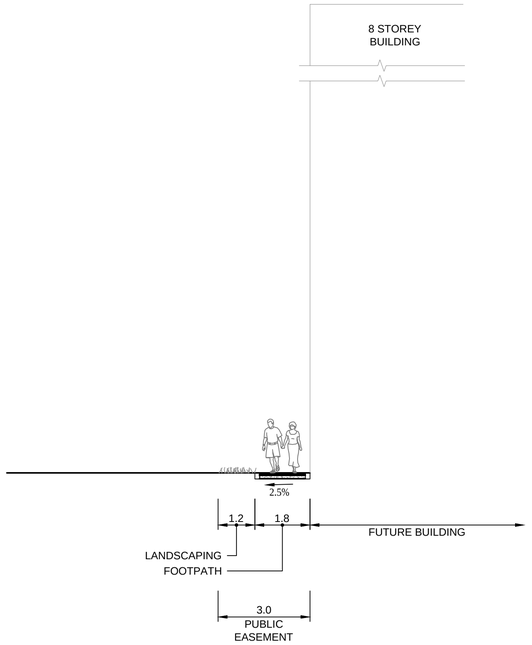
SHEET NUMBER

60558549-SHT-00-0000-CI-0124

ISO A1 594mm x 841mm

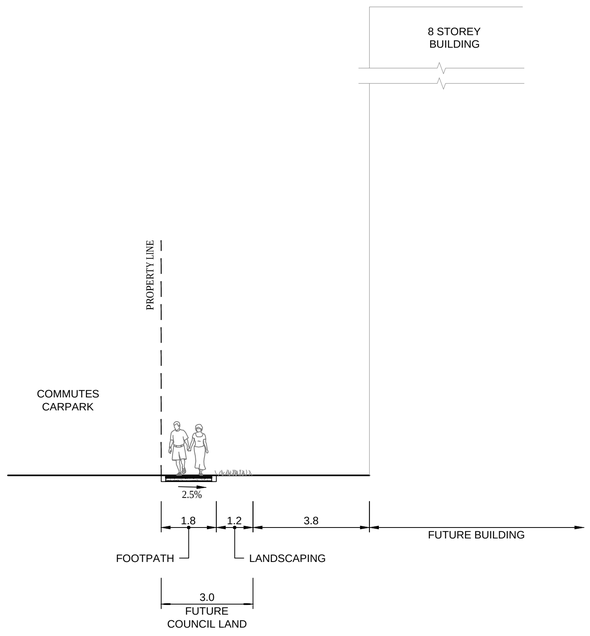
NOTES

1. REFER TO SCHEDULE FOR CUDGEGONG ROAD (AREA 20) PRECINCT DEVELOPMENT CONTROL PLAN AND BLACKTOWN CITY COUNCIL GROWTH CENTER PRECINCT DEVELOPMENT CONTROL PLAN FOR FURTHER DETAILS ON ROAD CROSS SECTIONS.
2. REFER TO BLACKTOWN CITY COUNCIL ENGINEERING GUIDE FOR DEVELOPMENT (2005) FOR FURTHER INFORMATION ON REQUIRED GRADING.



9 | SECTION I

CI-0021 | SCALE 1:100



10 | SECTION J

CI-0021 | SCALE 1:100

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Filename: \\AUSYD1FP001\PROJECTS\605X\60558549\5. CAD\20-SHEETS\60558549-SHT-00-0000-CI-0125.DWG

AECOM

PROJECT

CUDGEGONG ROAD STATION PRECINCT

TOWN CENTRE SOUTH CIVIL PACKAGE

CLIENT

LANDCOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

SCALE BAR

0 2.5 5 m
1:100

PRELIMINARY

PROJECT MANAGEMENT INITIALS

J. CHAN	D. FETTELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
A	18/05/2018	ISSUED FOR PRELIMINARY

KEY PLAN

PROJECT NUMBER

60558549

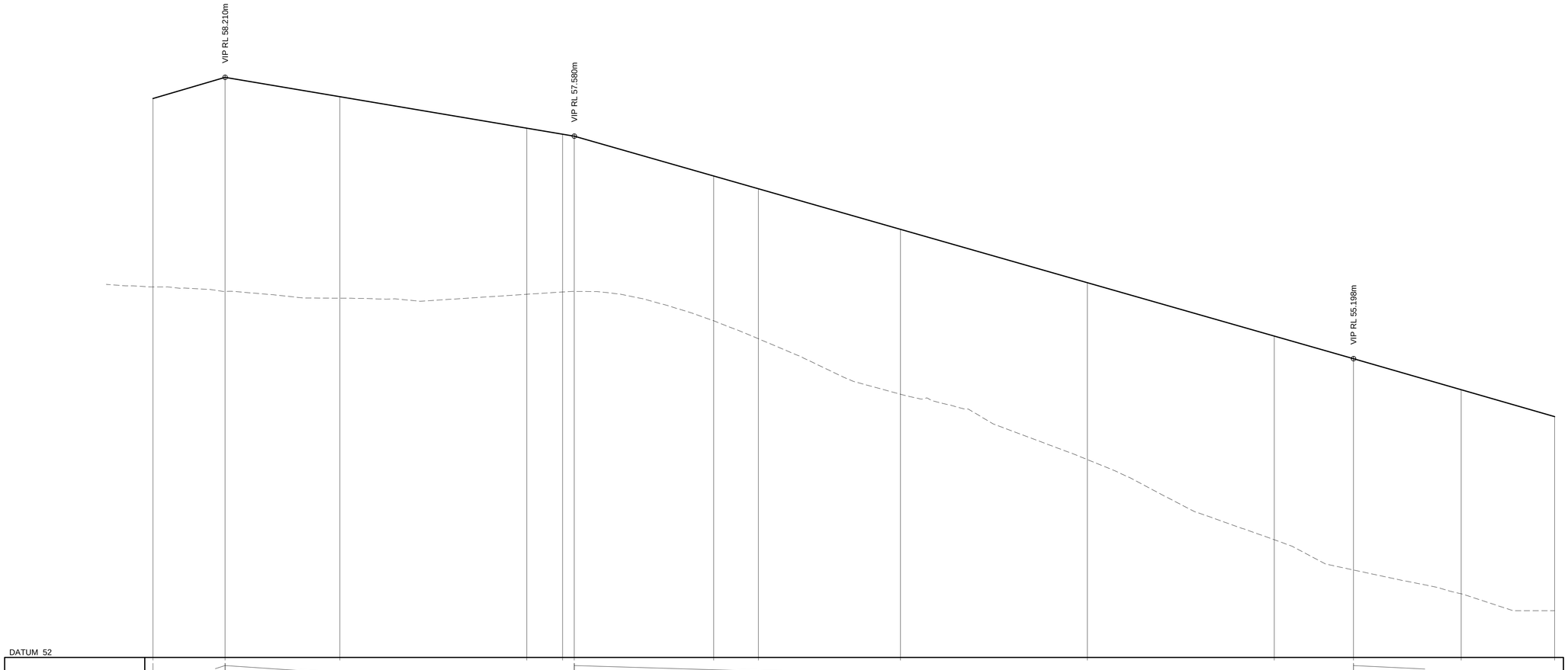
SHEET TITLE

TYPICAL SITE SECTION

SHEET 05

SHEET NUMBER

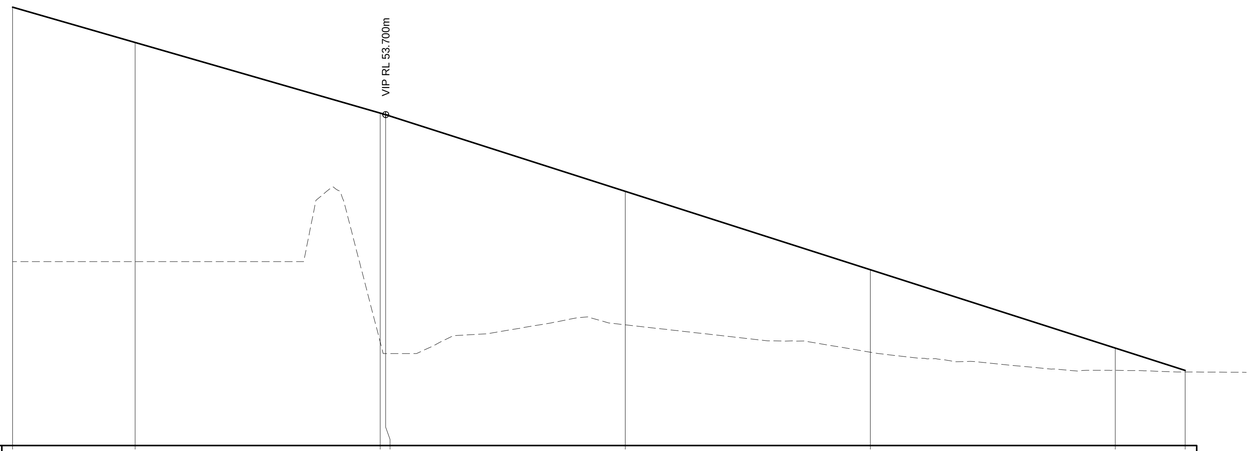
60558549-SHT-00-0000-CI-0125



DATUM 52

| | | |

ISO A1 594mm x 841mm



DATUM 51							
VERTICAL GEOMETRY	G=-2.88%			G=-3.20%			
HORIZONTAL GEOMETRY	L=180.909						
DESIGN LEVELS	54.577	54.289	53.712 53.700	53.074	52.434	51.795	51.612
EXISTING LEVELS	52.500	52.500	51.846 51.750	51.985	51.761	51.613	51.600
CHAINAGE	150.000	160.000	180.000 180.445	200.000	220.000	240.000	245.699

LONGITUDINAL SECTION - MC01

A1 HORIZONTAL SCALE 1:250
A1 VERTICAL SCALE 1:25

AECOM

PROJECT

CUDGEGONG ROAD STATION PRECINCT
TOWN CENTRE SOUTH
CIVIL PACKAGE

CLIENT

LANDCOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

SCALE BAR

PRELIMINARY

PROJECT MANAGEMENT INITIALS

J. CHAN	D. FETTELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
A	18/05/2018	ISSUED FOR PRELIMINARY

KEY PLAN

PROJECT NUMBER

60558549

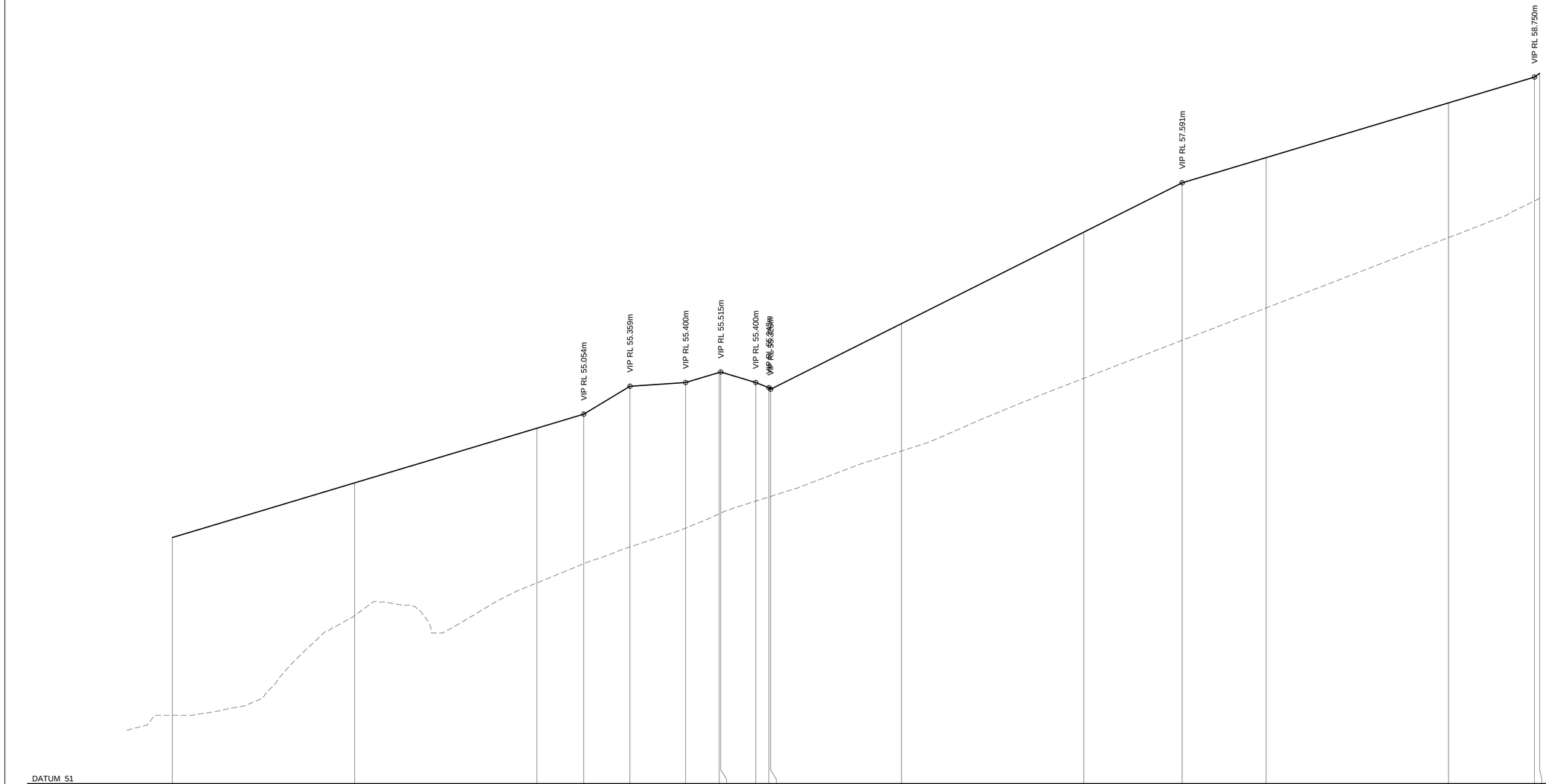
SHEET TITLE

PUBLIC DOMAIN
LONGITUDINAL SECTION - MC01
SHEET 02

SHEET NUMBER

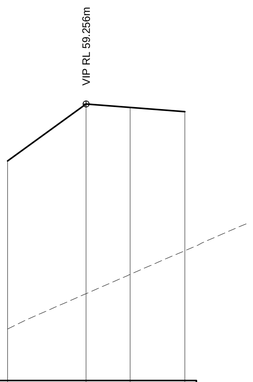
60558549-SHT-00-0000-CI-0162

Last saved by: DUTOITM(2018-04-11) Last Plotted: 2018-05-18
Filename: \\AUSYD1FP001\PROJECTS\605X\60558549\5. CAD\20-SHEETS\60558549-SHT-00-0000-CI-0162.DWG



DATUM 51

| | | |



DATUM 57

VERTICAL GEOMETRY	G=7.25%		G=-0.78%	
HORIZONTAL GEOMETRY	L=164.471			
DESIGN LEVELS	58.792	59.256	59.228	59.193
EXISTING LEVELS	57.420	57.709	57.866	58.059
CHAINAGE	150.000	156.407	160.000	164.471

LONGITUDINAL SECTION - MC02

A1 HORIZONTAL SCALE 1:250
A1 VERTICAL SCALE 1:25

AECOM

PROJECT

CUDGEGONG ROAD STATION PRECINCT
TOWN CENTRE SOUTH
CIVIL PACKAGE

CLIENT

LANDCOM

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

SCALE BAR

PRELIMINARY

PROJECT MANAGEMENT INITIALS

J. CHAN	D. FETTELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
A	18/05/2018	ISSUED FOR PRELIMINARY

KEY PLAN

PROJECT NUMBER

60558549

SHEET TITLE

PUBLIC DOMAIN
LONGITUDINAL SECTION - MC02
SHEET 04

SHEET NUMBER

60558549-SHT-00-0000-CI-0164

ISO A1 594mm x 841mm

CUDGEGONG ROAD STATION

THEMEDA AVENUE

ARTISTIDA STREET

CONFERTA AVENUE

CUDGEGONG ROAD

SCHOFIELDS ROAD

MC01

MC02

MC03

MC04

MC05

MC06

MC07

MC08

MC09

MC10

MC11

MC12

MC13

MC14

MC15

MC16

MC17

MC18

MC19

MC20

MC21

MC22

MC23

MC24

MC25

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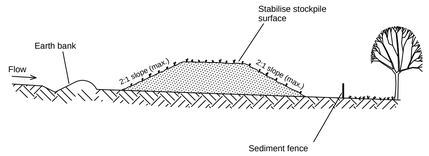
MC36

MC37

MC38

MC39

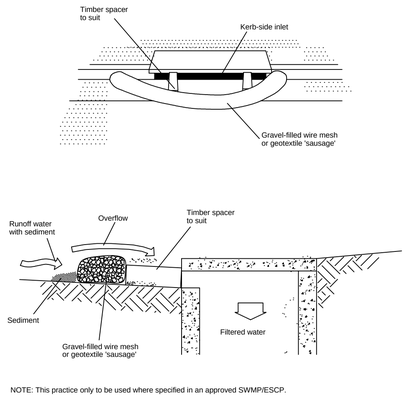
MC40



Construction Notes

1. Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
2. Construct on the contour as low, flat, elongated mounds.
3. Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
4. Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
5. Construct earth banks on the upslope side to divert water around stockpiles and sediment fences 1 to 2 metres downslope.

STOCKPILE PROTECTION

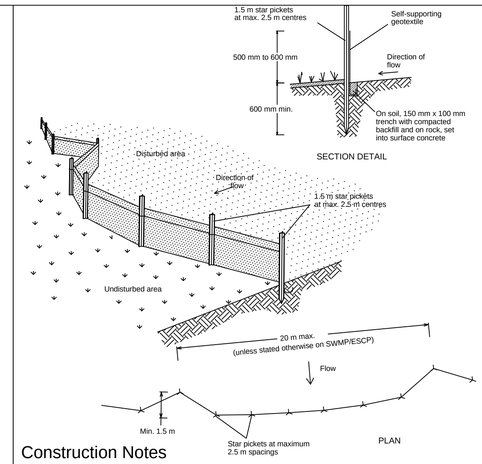


NOTE: This practice only to be used where specified in an approved SWMP/ESCP.

Construction Notes

1. Install filters to kerb inlets only at sag points.
2. Fabricate a sleeve made from geotextile or wire mesh longer than the length of the inlet pit and fill it with 25 mm to 50 mm gravel.
3. Form an elliptical cross-section about 150 mm high x 400 mm wide.
4. Place the filter at the opening leaving at least a 100-mm space between it and the kerb inlet. Maintain the opening with spacer blocks.
5. Form a seal with the kerb to prevent sediment bypassing the filter.
6. Sandbags filled with gravel can substitute for the mesh or geotextile providing they are placed so that they firmly abut each other and sediment-laden waters cannot pass between.

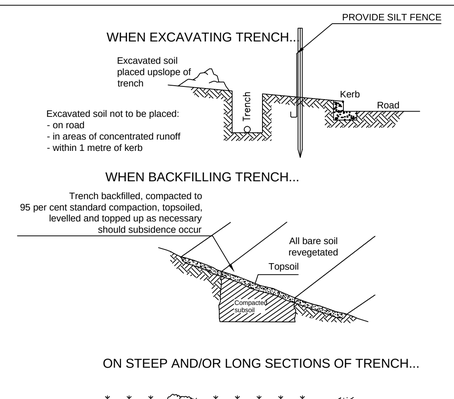
MESH AND GRAVEL INLET FILTER



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 150-mm 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 150-mm overlap.
6. Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

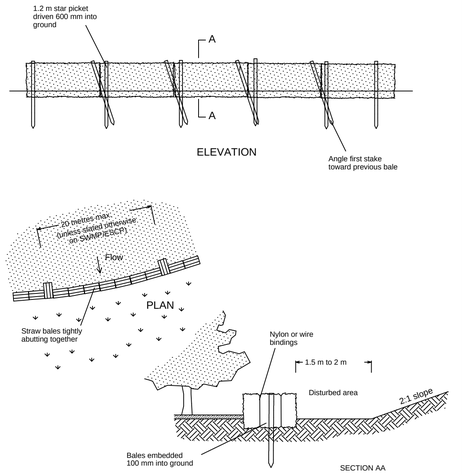
SEDIMENT FENCE SD 6-8



Construction Notes

1. Do not open any trench unless it is likely to be closed in three days.
2. Place excavated material upslope of trench.
3. Stockpile topsoil separately from subsoil.
4. Divert runoff from the line of the cut with diversions as directed by standard drawing 5-2.
5. Rehabilitate in accordance with specification.

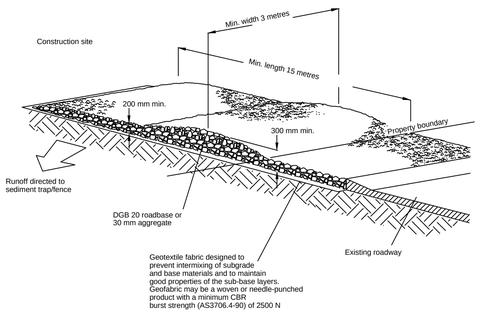
UTILITY CONSTRUCTION SD9-1



Construction Notes

1. Construct the straw bale filter as close as possible to being parallel to the contours of the site.
2. Place bales lengthwise in a row with ends tightly abutting. Use straw to fill any gaps between bales. Straws are to be placed parallel to ground.
3. Ensure that the maximum height of the filter is one bale.
4. Embed each bale in the ground 75 mm to 100 mm and anchor with two 1.2 metre star pickets or stakes. Angle the first star picket or stake in each bale towards the previously laid bale. Drive them 600 mm into the ground and, if possible, flush with the top of the bales. Where star pickets are used and they protrude above the bales, ensure they are fitted with safety caps.
5. Where a straw bale filter is constructed downslope from a disturbed batter, ensure the bales are placed 1 to 2 metres downslope from the toe.
6. Establish a maintenance program that ensures the integrity of the bales is retained - they could require replacement each two to four months.

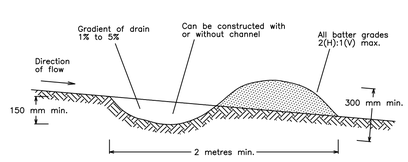
STRAW BALE FILTER



Construction Notes

1. Strip the topsoil, level the site and compact the subgrade.
2. Cover the area with needle-punched geotextile.
3. Construct a 200 mm thick pad over the geotextile using road base or 30 mm aggregate.
4. Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
5. Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised access to divert water to the sediment fence

STABILISED SITE ACCESS



NOTE: Only to be used as temporary bank where maximum upslope length is 80 metres.

Construction Notes

1. Build with gradients between 1 percent and 5 percent.
2. Avoid removing trees and shrubs if possible - work around them.
3. Ensure the structures are free of projections or other irregularities that could impede water flow.
4. Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
5. Ensure the banks are properly compacted to prevent failure.
6. Complete permanent or temporary stabilisation within 10 days of construction.

DIVERSION SWALE

EROSION AND SEDIMENTATION CONTROL NOTES

1. UPON COMPLETION OF FINAL EARTHWORKS OR AFTER WRITTEN DIRECTION PRINCIPAL AUTHORISED PERSON, IMMEDIATE SILT CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED, EROSION PROOF WITHIN 14-DAYS;
2. ALL PERIMETER AND SILTATION CONTROL MEASURES ARE TO BE THE FIRST STEP IN CLEARING OR EARTHWORKS;
3. THE AREA OVER ALL STORMWATER AND SEWER LINES NOT IN STREETS IS TO BE MULCHED AND SEEDED AS SOON AS POSSIBLE BUT NO LATER THAN WITHIN 14-DAYS AFTER BACKFILL;
4. NO MORE THAN 150-METRES OF TRENCH IS TO BE OPEN AT ANY ONE TIME;
5. AREAS OVER ELECTRICITY POWER, TELEPHONE AND GAS SUPPLY TRENCHES ARE TO BE SEEDED AND MULCHED AS SOON AS POSSIBLE BUT NO LATER THAN WITHIN 14-DAYS AFTER BACKFILL;
6. ALL TEMPORARY EARTH BERMS, DIVERSION AND SEDIMENT BASIN EMBANKMENTS ARE TO BE TRACK ROLLED, SEEDED OR MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED;
7. ALL FILLS ARE TO BE LEFT WITH A WINDROW AT LEAST 200 MM HIGH AT THE TOP OF THE SLOPE AT THE END OF EACH DAY'S EARTHWORKS, AND ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO "SEAL" THE EARTHWORKS;
8. ALL FINAL EROSION PREVENTION MEASURES, INCLUDING ESTABLISHMENT OF GRASSING, ARE TO BE COMPLETED PRIOR TO THE SITE FINAL INSPECTION;
9. STABILISATION OF ALL CUT AND FILL SLOPES SHALL BE COMMENCED WITHIN 14-DAYS OF COMPLETION OF FORMATION;
10. A STRIP OF TURF IS TO BE PLACED IMMEDIATELY BEHIND THE KERB AND GUTTER ON ALL NEW ROADS AND AT ADDITIONAL LOCATIONS AS DETERMINED BY PRINCIPAL AUTHORISED PERSON;
11. ALL TOPSOIL IS TO BE STOCKPILED ON SITE (AWAY FROM TREES AND DRAINAGE LINES). MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE STOCKPILES AND
12. ESTABLISHMENT OF FIRE BREAKS SHALL BE CARRIED OUT IN CONSULTATION WITH A FIRE CONTROL OFFICER.

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SCALE BAR

PRELIMINARY

PROJECT MANAGEMENT INITIALS

J. CHAN	D. FETTELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

A	18/05/2018	ISSUED FOR PRELIMINARY
I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60558549

SHEET TITLE

EROSION AND SEDIMENTATION CONTROL DETAILS
SHEET 01

SHEET NUMBER

60558549-SHT-00-0000-CI-0221

ISO A1 594mm x 841mm

CUDGEGONG ROAD STATION

THEMEDA AVENUE

ARTISTIDA STREET

CONFERTA AVENUE

CONTINUATION - REFER TO SHEET 02

CONTINUATION - REFER TO SHEET 03

CONNECT TO EXISTING DRAINAGE PIT

B06/01 B06/02 B06/03 B05/01 B05/02 B07/01 B08/01 B09/01 B10/01 B01/07 B01/08 B01/09 B01/10 B01/11

Ø375 Ø450 Ø525 Ø600 Ø675 Ø750 Ø825 Ø150 Ø225

60.5 59.5 59.0 58.5 57.5 57.0 56.5 56.0 164.471

150 100

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CUDGEGONG ROAD STATION PRECINCT
TOWN CENTRE SOUTH CIVIL PACKAGE

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LEGEND

- 56.5 — MAJOR COUNTOURS
- Ø525 — DRAINAGE LINE, SIZES AND FLOW DIRECTION
- 2.03 — DRAINAGE PITS (REFER DRAINAGE DRAWINGS FOR DETAILS)
- EXISTING DRAINAGE LINE
- EXISTING RMS DRAINAGE

SCALE BAR

0 6.25 12.5 m
1:250

PRELIMINARY

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J. CHAN	D. FETTELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
A	18/05/2018	ISSUED FOR PRELIMINARY

KEY PLAN

PROJECT NUMBER

60558549

SHEET TITLE

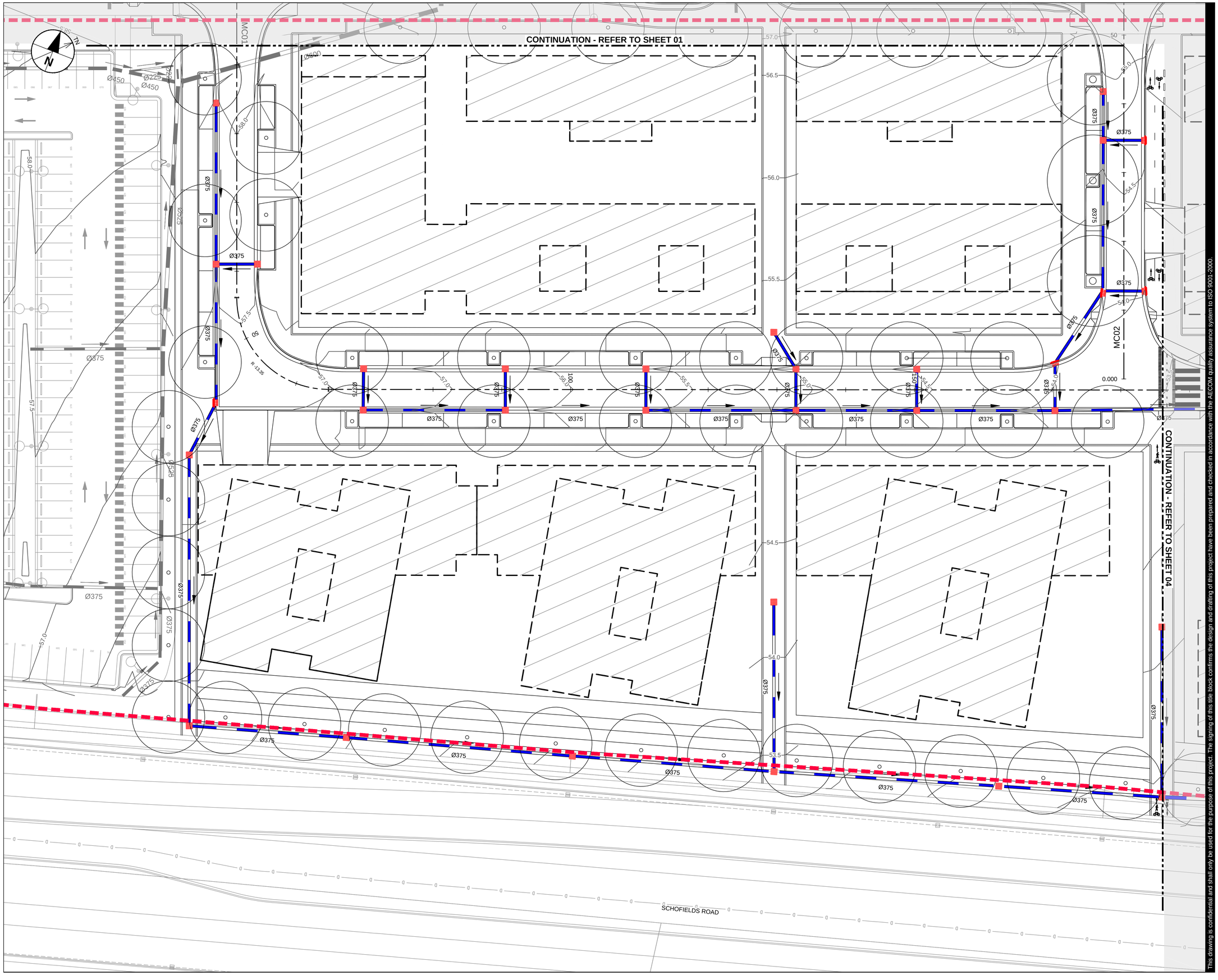
DRAINAGE
PLAN
SHEET 01

SHEET NUMBER

60558549-SHT-00-0000-CI-0301

Last saved by: DUTOITM(2018-04-11) Last Plotted: 2018-05-18
Filename: \\AUSYD1FP001\PROJECTS\605X\60558549\5. CAD\20-SHEETS\60558549-SHT-00-0000-CI-0301.DWG

ISO A1 594mm x 841mm



This drawing is confidential and shall only be used for the purpose of this project. The signing of this title block confirms the design and drafting of this project have been prepared and checked in accordance with the AECOM quality assurance system to ISO 9001:2000.

AECOM

PROJECT

CUDGEGONG ROAD STATION PRECINCT
TOWN CENTRE SOUTH CIVIL PACKAGE

CLIENT

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LEGEND

- 56.5 — MAJOR COUNTOURS
- Ø525 — DRAINAGE LINE, SIZES AND FLOW DIRECTION
- 2.03 — DRAINAGE PITS (REFER DRAINAGE DRAWINGS FOR DETAILS)
- EXISTING DRAINAGE LINE
- EXISTING RMS DRAINAGE

SCALE BAR

0 6.25 12.5 m
1:250

PRELIMINARY

PROJECT MANAGEMENT INITIALS

J. CHAN	D. FETTELL	D. FETTELL
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
A	18/05/2018	ISSUED FOR PRELIMINARY

KEY PLAN

PROJECT NUMBER

60558549

SHEET TITLE

DRAINAGE
PLAN
SHEET 02

SHEET NUMBER

60558549-SHT-00-0000-CI-0302

Last saved by: DUTOITM(2018-04-11) Last Plotted: 2018-05-18
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