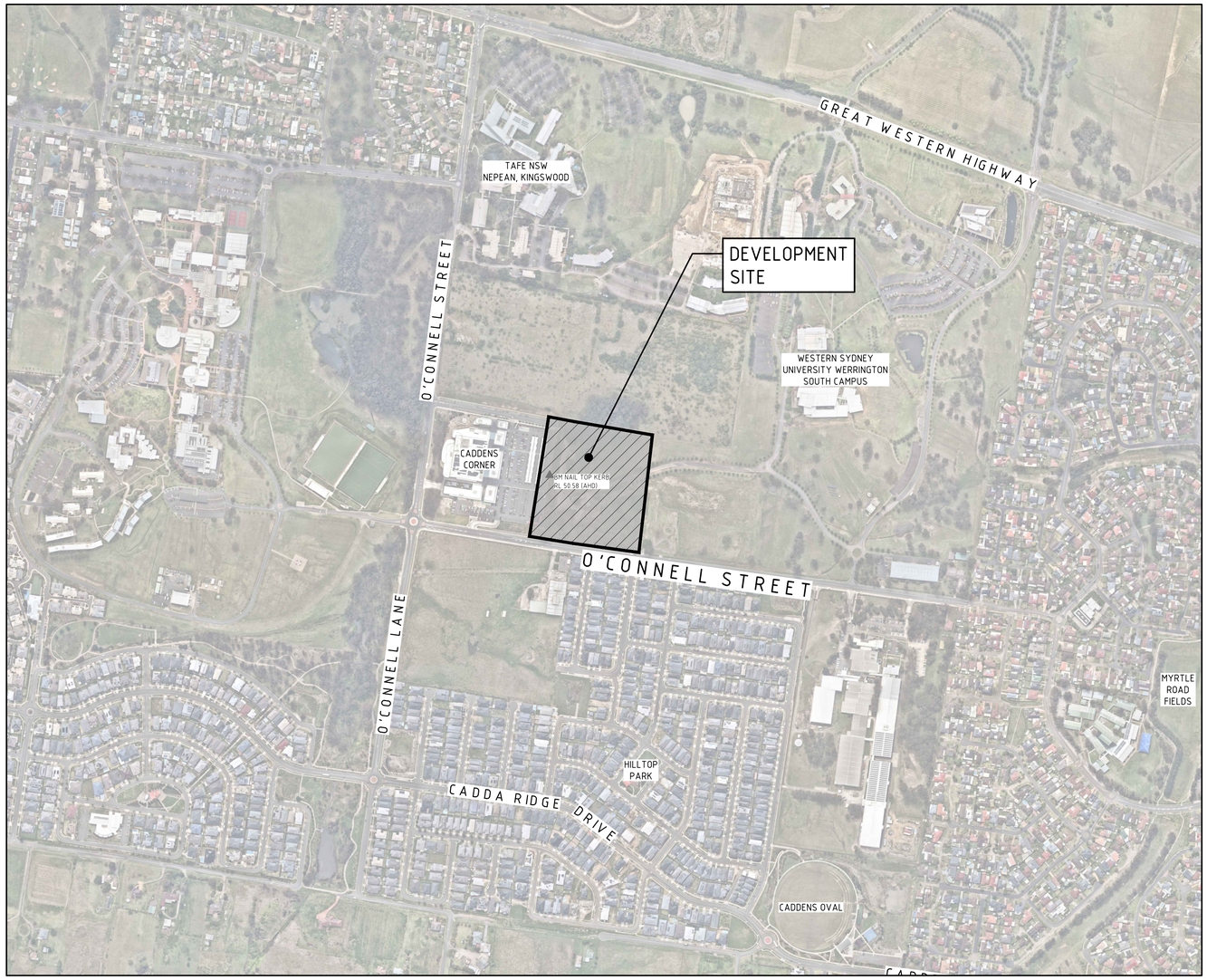
CADDENS CORNER

O'CONNELL STREET, CADDENS
CIVIL ENGINEERING PACKAGE - DEVELOPMENT APPLICATION



LOCALITY PLAN

SOURCE : NEARMAP.COM.AU (©2022)

CIVIL DRAWING SCHEDULE

DWG No.	DRAWING TITLE
DAC0000	COVER SHEET, DRAWING SCHEDULE AND LOCALITY PLAN
DAC0101	SPECIFICATION NOTES
DAC0201	GENERAL ARRANGEMENT PLAN
DAC1001	SEDIMENT AND SOIL EROSION CONTROL PLAN
DAC1101	SEDIMENT AND SOIL EROSION CONTROL DETAILS
DAC2001	BULK EARTHWORKS CUT AND FILL PLAN
DAC2101	BULK EARTHWORKS CUT AND FILL SECTIONS - SHEET 01
DAC2102	BULK EARTHWORKS CUT AND FILL SECTIONS - SHEET 02
DAC2103	BULK EARTHWORKS CUT AND FILL SECTIONS - SHEET 03
DAC2104	BULK EARTHWORKS CUT AND FILL SECTIONS - SHEET 04
DAC2105	BULK EARTHWORKS CUT AND FILL SECTIONS - SHEET 05
DAC3001	SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 01
DAC3002	SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 02
DAC3003	SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 03
DAC3004	SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 04
DAC4000	ROAD TYPICAL SECTIONS
DAC4101	STORMWATER LONGITUDINAL SECTIONS - SHEET 01
DAC4102	STORMWATER LONGITUDINAL SECTIONS - SHEET 02
DAC4103	STORMWATER LONGITUDINAL SECTIONS - SHEET 03
DAC4104	STORMWATER LONGITUDINAL SECTIONS - SHEET 04
DAC4105	STORMWATER LONGITUDINAL SECTIONS - SHEET 05
DAC4106	STORMWATER LONGITUDINAL SECTIONS - SHEET 06
DAC4107	STORMWATER LONGITUDINAL SECTIONS - SHEET 07
DAC4108	STORMWATER LONGITUDINAL SECTIONS - SHEET 08
DAC4109	STORMWATER LONGITUDINAL SECTIONS - SHEET 09
DAC4201	STORMWATER CATCHMENT PLAN
DAC5001	ALIGNMENT CONTROL PLAN
DAC5101	ROAD LONGITUDINAL SECTIONS - SHEET 01
DAC5102	ROAD LONGITUDINAL SECTIONS - SHEET 02
DAC5103	ROAD LONGITUDINAL SECTIONS - SHEET 03
DAC5201	CROSS SECTIONS - SHEET 01
DAC5202	CROSS SECTIONS - SHEET 02
DAC5203	CROSS SECTIONS - SHEET 03
DAC5204	CROSS SECTIONS - SHEET 04
DAC5205	CROSS SECTIONS - SHEET 05
DAC6101	DETAILS - SHEET 01
DAC6102	DETAILS - SHEET 02
DAC6103	DETAILS - SHEET 03

DRAWN: V. CHON
DESIGNED: J. CARROLL
JOB MANAGER: B. LAWRENCE
VERIFIER:

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
01	ISSUED FOR INFORMATION	AF		JC	22.12.22
02	ISSUED FOR DA APPROVAL	UM		JC	08.03.23

CLIENT
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SCALE 1:5000@ A1 0 50 100 150 200 250m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
COVER SHEET, DRAWING SCHEDULE AND LOCALITY PLAN

JOB NUMBER
SY222070

DRAWING NUMBER **DAC0000** REVISION **02**

DRAWING SHEET SIZE = A1

NOTE: ALL CIVIL ENGINEERING CONSTRUCTION WORKS TO BE CARRIED OUT IN ACCORDANCE WITH PENRITH CITY COUNCIL DEVELOPMENT GUIDELINES. THE AFOREMENTIONED GUIDELINES INCLUSIVE OF ALL SPECIFICATIONS TAKE PRECEDENCE OVER NOTES PROVIDED BELOW.

GENERAL NOTES

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH OTHER SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

ALL DIMENSIONS ARE IN MILLIMETRES & ALL LEVELS ARE IN METRES, UNO (UNLESS NOTED OTHERWISE).

NO DIMENSION SHALL BE OBTAINED BY SCALING THE DRAWINGS.

ALL LEVELS AND SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE CHECKED ON SITE PRIOR TO THE COMMENCEMENT OF THE WORK.

DETAIL SURVEY DATA WAS SUPPLIED BY:
RAMASY SURVEYORS PTY LTD
REF. NUMBER: 8966
DRAWING TITLE: PLAN SHOWING DETAIL AND LEVELS OVER PART LOT 1 & LOT 2 IN DP 1268507 O'CONNELL STREET, CADDENS
REVISION DATE: 15.10.21
REVISION DESCRIPTION: BOUNDARIES UPDATED
GEOCENTRIC DATUM OF AUSTRALIA: 2020
SURVEY BY: MH
DRAWN BY: CSM

EXISTING SERVICES WHERE SHOWN HAVE BEEN PLOTTED FROM SUPPLIED DATA AND SUCH THEIR ACCURACY CAN NOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK.

ON COMPLETION OF STORMWATER INSTALLATION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS, UNLESS DIRECTED OTHERWISE.

ALL STORMWATER MANAGEMENT MEASURES SHOWN ON THIS DRAWING HAVE BEEN PREPARED FOR DEVELOPMENT APPLICATION PURPOSES TO DEMONSTRATE FEASIBILITY. ALL MEASURES WILL BE SUBJECT TO DETAIL DESIGN AT THE CONSTRUCTION CERTIFICATE STAGE AND MAY BE SUBJECT TO VARIATION PROVIDED THAT THE DESIGN INTENT IS MAINTAINED.

STORMWATER DRAINAGE

1. ALL DRAINAGE LINES SHALL BE UPVC (CLASS SN4) SEWER GRADE DRAINAGE PIPE, U.N.O.
2. ALL DRAINAGE LINES SHALL BE LAID AT 1% MIN. FALL, UNO.
3. ALL LEVELS ARE AUSTRALIAN HEIGHT DATUM (AHD).
4. ALL DOWNPIPES GUTTERS TO BE DESIGNED IN ACCORDANCE WITH AS/NZS 3500.3.2 - 2003 'STORMWATER' DRAINAGE.
5. THE STORMWATER DRAINAGE DESIGN HAS BEEN CARRIED OUT IN ACCORDANCE WITH AS/NZS 3500.3.2-2003 'STORMWATER' DRAINAGE.
6. ANY VARIATIONS TO THE NOMINATED LEVELS SHALL BE REFERRED TO ENGINEER IMMEDIATELY.
7. SUBSOIL DRAINAGE SHALL BE PROVIDED TO ALL RETAINING WALLS & EMBANKMENTS, WITH THE LINES FEEDING INTO THE STORMWATER DRAINAGE SYSTEM.
8. ALL GRATES TO BE GALVANISED STEEL WITH HINGES AND CHILD PROOF LOCK.
9. ALL GRATES TO BE HEEL SAFE WITHIN AGED CARE DEVELOPMENTS.
10. THE STORMWATER DRAINAGE IS DESIGNED IN ACCORDANCE WITH COUNCILS STORMWATER CODE.

CONCEPT SOIL & WATER MANAGEMENT

1. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH RELEVANT ORDINANCES AND REGULATIONS; NOTE IN PARTICULAR THE REQUIREMENTS OF LANDCOMS MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION' (THE 'BLUE BOOK'). THIS SOIL AND WATER MANAGEMENT PLAN DETAILS THE ACTIONS TO BE TAKEN FOR THE MANAGEMENT AND DEWATERING OF STORMWATER DURING CONSTRUCTION OF THE PROPOSED BUILDING.
2. INSTALL SEDIMENT PROTECTION FILTERS ON ALL NEW AND EXISTING STORMWATER INLET PITS IN ACCORDANCE WITH EITHER THE MESH AND GRAVEL INLET FILTER DETAIL SD6-11 OR THE GEOTEXTILE INLET FILTER DETAIL SD6-12 OF THE 'BLUE BOOK'.
3. ESTABLISH ALL REQUIRED SEDIMENT FENCES IN ACCORDANCE WITH DETAIL SD6-8 OF THE 'BLUE BOOK'.
4. INSTALL SEDIMENT FENCING AROUND INDIVIDUAL BUILDING ZONES/AREAS AS REQUIRED AND AS DIRECTED BY THE SUPERINTENDENT.
5. ALL TRENCHES INCLUDING ALL SERVICE TRENCHES AND SWALE EXCAVATION SHALL BE SIDE-CAST TO THE HIGH SIDE AND CLOSED AT THE END OF EACH DAYS WORK.
6. THE CONTRACTOR SHALL ENSURE THAT ALL VEGETATION (TREE, SHRUB & GROUND COVER) WHICH IS TO BE RETAINED SHALL BE PROTECTED DURING THE DURATION OF CONSTRUCTION. REFER ARCHITECTS PLANS FOR TREES TO BE KEPT.
7. ALL VEGETATION TO BE REMOVED SHALL BE MULCHED ONSITE AND SPREAD/STOCKPILED AS DIRECTED BY THE SUPERINTENDENT.
8. STRIP TOPSOIL IN AREAS DESIGNATED FOR STRIPPING AND STOCKPILE FOR RE-USE AS REQUIRED. ANY SURPLUS MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH EPA GUIDELINES.
9. CONSTRUCT AND MAINTAIN ALL MATERIAL STOCKPILES IN ACCORDANCE WITH DETAIL SD4-1 OF THE 'BLUE BOOK' (INCLUDING CUT-OFF SWALES TO THE HIGH SIDE AND SEDIMENT FENCES TO THE LOW SIDE).
10. ENSURE STOCKPILES DO NOT EXCEED 2.0m HIGH. PROVIDE WIND AND RAIN EROSION PROTECTION AS REQUIRED IN ACCORDANCE WITH THE 'BLUE BOOK'.
11. PROVIDE WATER TRUCKS OR SPRINKLER DEVICES DURING CONSTRUCTION AS REQUIRED TO SUPPRESS DUST.
12. ONCE CUT/FILL OPERATIONS HAVE BEEN FINALIZED ALL DISTURBED AREAS THAT ARE NOT BEING WORKED ON SHALL BE RE-VEGETATED AS SOON AS IS PRACTICAL.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING A DETAILED WRITTEN RECORD OF ALL EROSION & SEDIMENT CONTROLS ON-SITE DURING THE CONSTRUCTION PERIOD. THIS RECORD SHALL BE UPDATED ON A DAILY BASIS & SHALL CONTAIN DETAILS ON THE CONDITION OF CONTROLS AND ANY/ ALL MAINTENANCE, CLEANING & BREACHES. THIS RECORD SHALL BE KEPT ON-SITE AT ALL TIMES AND SHALL BE MADE AVAILABLE FOR INSPECTION BY THE PRINCIPAL CERTIFYING AUTHORITY AND THE SUPERINTENDENT DURING NORMAL WORKING HOURS.
14. GROUNDWATER SEEPAGE RATES AND QUALITY TO BE MONITORED AND TREATED IF REQUIRED DURING CONSTRUCTION IN ACCORDANCE WITH REQUIREMENTS OF SUPERVISING GEOTECHNICAL ENGINEER.

DRAWN: V. CHON DESIGNED: J. CARROLL JOB MANAGER: B. LAWRENCE VERIFIER:

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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
01	ISSUED FOR DA APPROVAL	UM		JC	08.03.23

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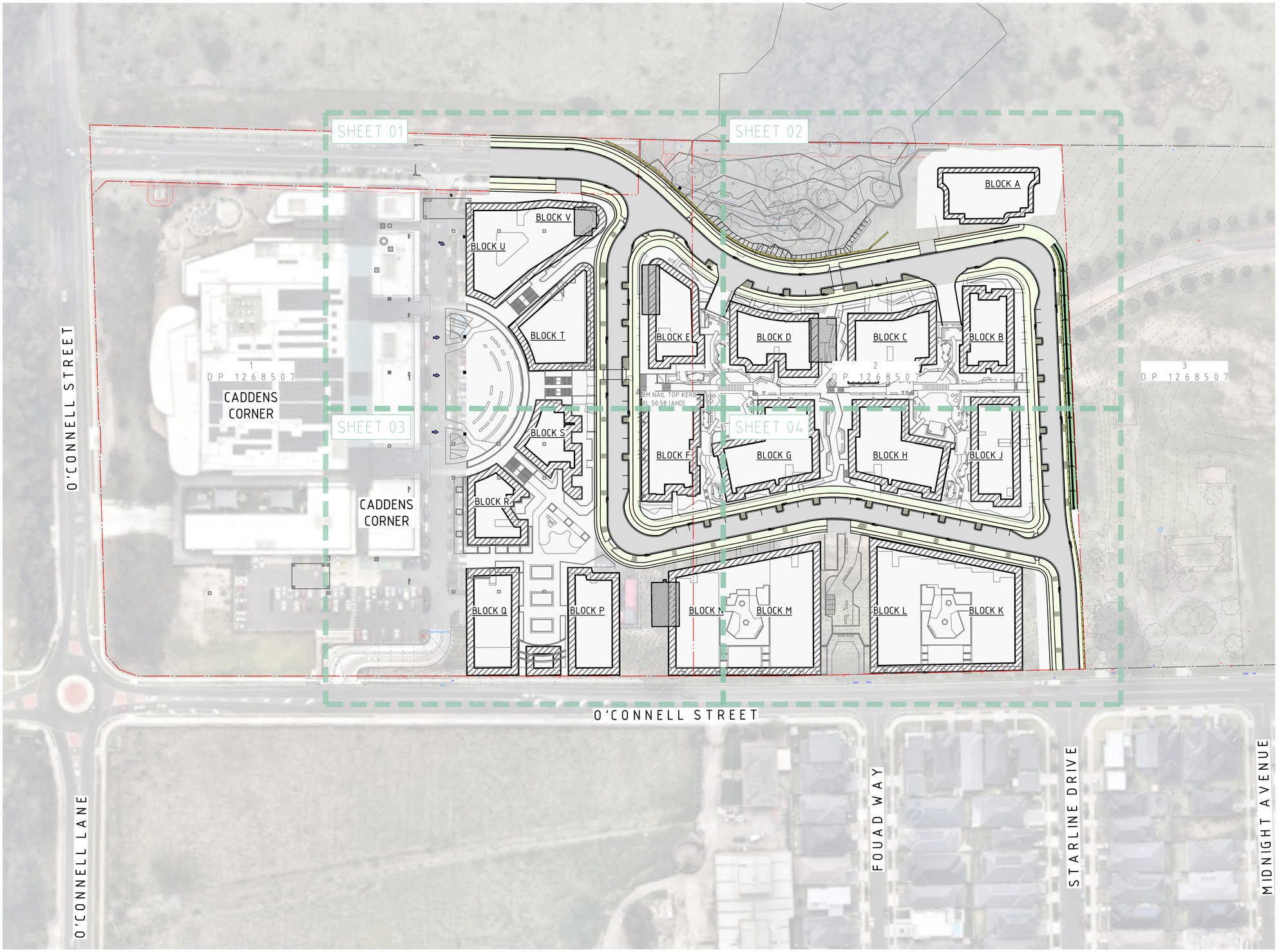
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
SPECIFICATION NOTES

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC0101** REVISION **01**
DRAWING SHEET SIZE = A1



LEGEND

- EXISTING BOUNDARY LINE
- SITE BOUNDARY LINE
- EXISTING EASEMENT LINE
- EXISTING CONTOURS
- LIMIT OF WORKS — LIMIT OF WORKS
- SHEET EXTENTS

GENERAL NOTES:

1. SURVEY SUPPLIED BY: RAMASY SURVEYORS PTY LTD
   1.1. REF. NUMBER: 8966
   1.2. DRAWING TITLE: PLAN SHOWING DETAIL AND LEVELS OVER PART LOT 1 & LOT 2 IN DP 1268507 O'CONNELL STREET, CADDENS
   1.3. REVISION DATE: 15.10.21
   1.4. REVISION DESCRIPTION: BOUNDARIES UPDATED
   1.5. GEOCENTRIC DATUM OF AUSTRALIA: 2020
   1.6. SURVEY BY: MH
   1.7. DRAWN BY: CSM
2. ALL UTILITY SERVICES INDICATED ON THE DRAWINGS ORIGINATE FROM SUPPLIED DATA OR DIAL BEFORE YOU DIG SEARCHES, 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. NOTE SERVICE AUTHORITY REQUIREMENTS FOR LOCATING OF SERVICES PRIOR TO COMMENCEMENT OF WORKS.
3. NORTHROP TAKE NO RESPONSIBILITY FOR THE ACCURACY AND/OR USE OF THIS SURVEY AND ITS CONTENTS

DRAWN: V. CHON DESIGNED: J. CARROLL JOB MANAGER: B. LAWRENCE VERIFIER:

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Sydney
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PROJECT
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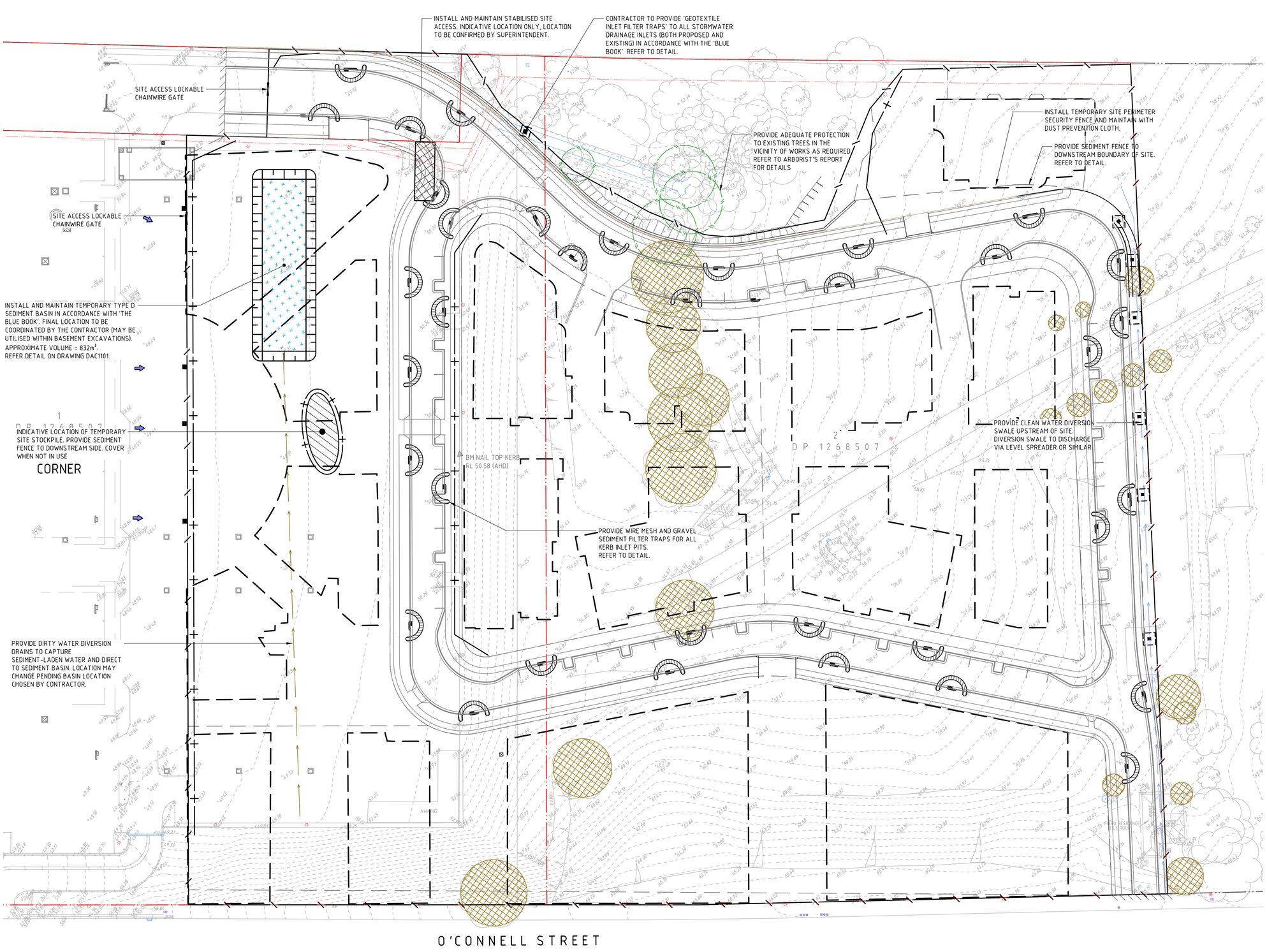
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
GENERAL ARRANGEMENT PLAN

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC0201** REVISION **02**
DRAWING SHEET SIZE = A1



LEGEND

- EXISTING BOUNDARY LINE
- SITE BOUNDARY LINE
- EXISTING EASEMENT LINE
- PROPOSED DESIGN LAYOUT
- PROPOSED BUILDING FOOTPRINT
- EXISTING CONTOURS
- SEDIMENT FENCE
- SECURITY FENCE
- WIRE MESH AND GRAVEL SEDIMENT FILTER
- GEOTEXTILE INLET FILTER TRAP
- STABILISED SITE ACCESS
- STOCKPILE
- SEDIMENT BASIN
- TREES TO BE RETAINED
- TREES TO BE REMOVED
- TREE PROTECTION

GENERAL NOTES:

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
2. ALL SEDIMENT AND SOIL EROSION CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH THE 'BLUE BOOK'. CONTRACTOR TO ENSURE THESE MEASURES ARE IN PLACE AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION WORKS.
3. CONTRACTOR TO PROVIDE 'WIRE MESH AND GRAVEL SEDIMENT FILTER' TO ALL PAVED / ROAD AREAS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'.
4. CONTRACTOR TO PROVIDE 'GEOTEXTILE INLET FILTER TRAPS' TO ALL STORMWATER DRAINAGE INLETS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'
5. ALL PITS OPEN TO ATMOSPHERE TO BE PROTECTED IN ACCORDANCE WITH THE 'BLUE BOOK'

DRAWN: V. CHON DESIGNED: J. CARROLL JOB MANAGER: B. LAWRENCE VERIFIER:

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SCALE 1:500@ A1 — 0 5 10 15 20 25m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

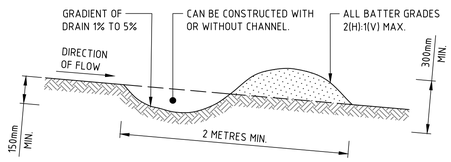
PROJECT: CADDENS CORNER O'CONNELL STREET, CADDENS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE DEVELOPMENT APPLICATION — SEDIMENT AND SOIL EROSION CONTROL PLAN

JOB NUMBER: SY222070

DRAWING NUMBER: DAC1001 REVISION: 01

DRAWING SHEET SIZE = A1

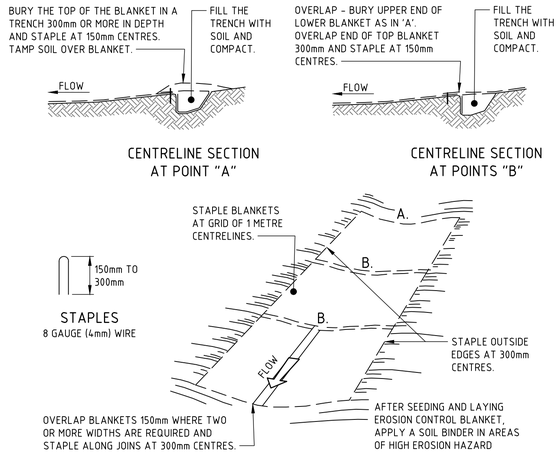


CONSTRUCTION NOTES

1. BUILD WITH GRADIENTS BETWEEN 1 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.

NOTE: ONLY TO BE USED AS TEMPORARY BANK WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.

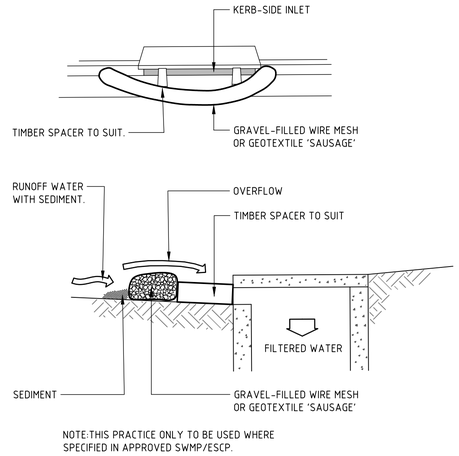
DRAINAGE SWALE - DIRTY



CONSTRUCTION NOTES

1. REMOVE ANY ROCKS, CLODS, STICKS OR GRASS FROM THE SURFACE BEFORE LAYING MATTING.
2. ENSURE THAT TOPSOIL IS AT LEAST 75mm DEEP.
3. COMPLETE FERTILISING AND SEEDING BEFORE LAYING THE MATTING.
4. ENSURE FABRIC WILL BE CONTINUOUSLY IN CONTACT WITH THE SOIL BY GRADING THE SURFACE CAREFULLY FIRST.
5. LAY THE FABRIC IN "SHINGLE-FASHION", WITH THE END OF EACH UPSTREAM ROLL OVERLAPPING THOSE DOWNSTREAM. ENSURE EACH ROLL IS ANCHORED PROPERLY AT ITS UPSLOPE END (STANDARD DRAWING 5-7B).
6. ENSURE THAT THE FULL WIDTH OF FLOW IN THE CHANNEL IS COVERED BY THE MATTING UP TO THE DESIGN STORM EVENT, USUALLY IN THE 10-YEAR ARI TIME OF CONCENTRATION STORM EVENT.
7. DIVERT WATER FROM THE STRUCTURE UNTIL VEGETATION IS STABILISED PROPERLY.

DRAINAGE SWALE - CLEAN

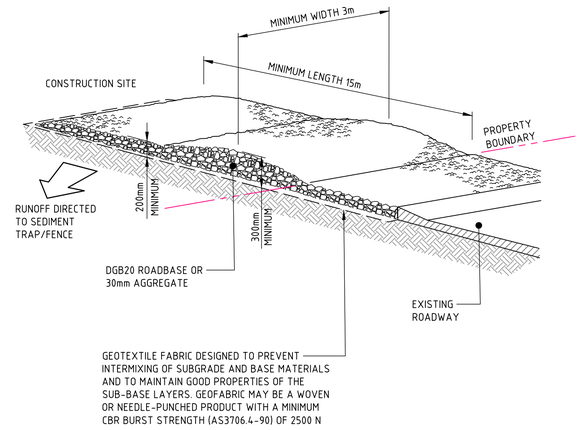


NOTE:THIS PRACTICE ONLY TO BE USED WHERE SPECIFIED IN APPROVED SWMP/ESCP.

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 25mm TO 50mm GRAVEL.
3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm 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.

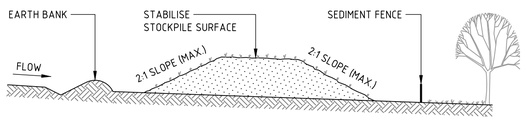
WIRE MESH AND GRAVEL SEDIMENT FILTER



CONSTRUCTION NOTES

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm 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.

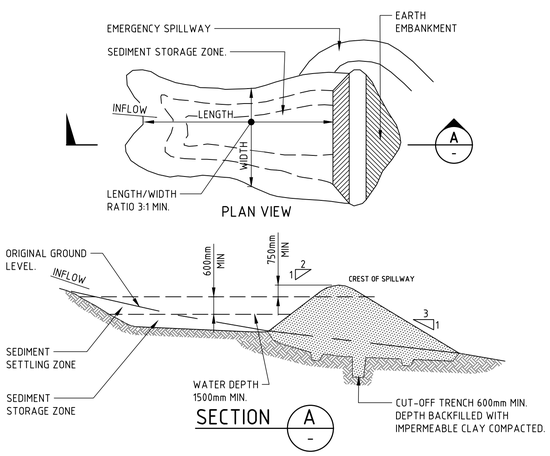
STABILISED SITE ACCESS



CONSTRUCTION NOTES

1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) 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 2m 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 (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

STOCKPILE

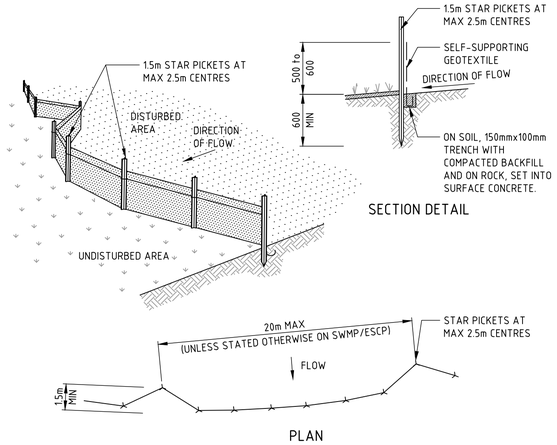


CONSTRUCTION NOTES

1. REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.
2. CONSTRUCT A CUT-OFF TRENCH 500mm DEEP AND 1200mm WIDE ALONG THE CENTRELINE OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST.
3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE SWMP TO 95 PER CENT STANDARD PROCTOR DENSITY.
4. SELECT FILL FOLLOWING THE SWMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL.
5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100mm TO HELP BOND COMPACTED FILL TO THE EXISTING SUBSTRATE.
6. SPREAD THE FILL IN 100mm TO 150mm LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT FOLLOWING THE SWMP.
7. CONSTRUCT THE EMERGENCY SPILLWAY.
8. REHABILITATE THE STRUCTURE FOLLOWING THE SWMP.

(APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY)

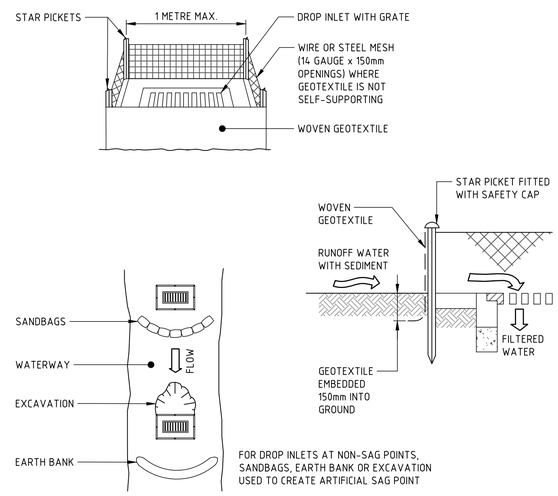
EARTH SEDIMENT BASIN - WET



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



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 TRAPS

DRAWN: V. CHON DESIGNED: J. CARROLL JOB MANAGER: B. LAWRENCE VERIFIER:

NOT FOR CONSTRUCTION

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ARCHITECT: **TURNER**

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Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: **CADDENS CORNER O'CONNELL STREET, CADDENS**

DRAWING TITLE: **CIVIL ENGINEERING PACKAGE DEVELOPMENT APPLICATION**

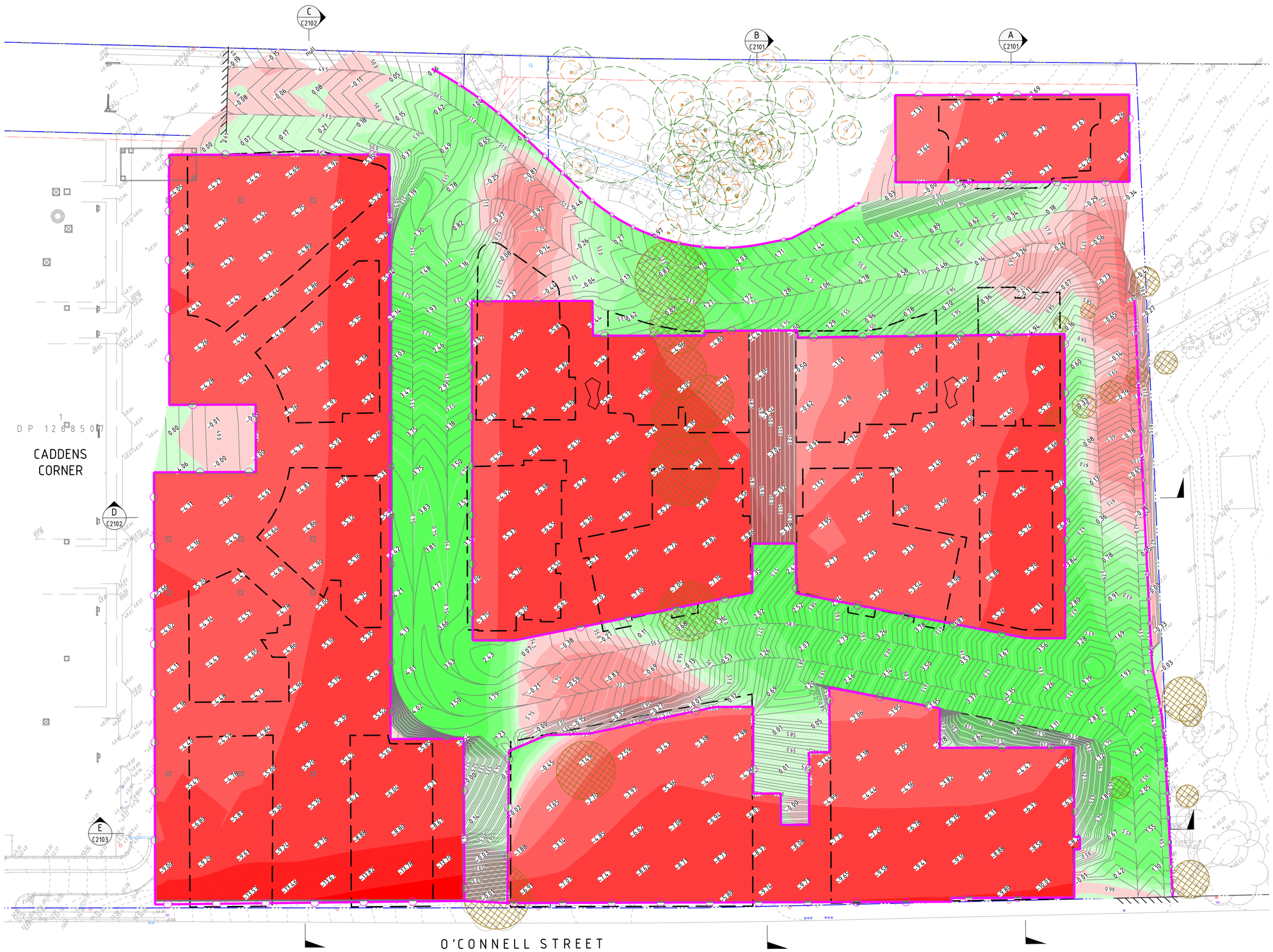
SEDIMENT AND SOIL EROSION CONTROL DETAILS

JOB NUMBER: **SY222070**

DRAWING NUMBER: **DAC1101** REVISION: **01**

DRAWING SHEET SIZE = A1

Autodesk Vault: Home/Projects/SY222 2000/222070 - Caddens Osborne/Drawings/C-Civil/CADD\DRAWINGS\SY222070_DAC1101.dwg



LEGEND

- EXISTING BOUNDARY LINE
- SITE BOUNDARY LINE
- PROPOSED BUILDING FOOTPRINT
- PROPOSED SHORING / RETAINING WALL
- PROPOSED CONTOURS
- EXISTING CONTOURS

DEPTH OF CUT

- - 999m TO - 15.0m
- - 15.0m TO - 10.0m
- - 10.0m TO - 5.0m
- - 5.0m TO - 2.0m
- - 2.0m TO - 1.0m
- - 1.0m TO - 0.5m
- - 0.5m TO - 0.25m
- - 0.25m TO - 0.0m

DEPTH OF FILL

- 0.0m TO 0.25m
- 0.25m TO 0.5m
- 0.5m TO 1.0m
- 1.0m TO 2.0m
- 2.0m TO 5.0m
- 5.0m TO 10.0m
- 10.0m TO 15.0m
- 15.0m TO 999m

- TREE TO BE REMOVED
- TREE TO BE RETAINED

GENERAL NOTES:

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
2. CAD FILES / DTM FILES TO BE SUPPLIED IN AUTOCAD FORMAT FOR SETOUT PURPOSES (UPON REQUEST).
3. STRIP EXISTING TOPSOIL IN CONSULTATION WITH THE GEOTECHNICAL ENGINEER / REPORT. FOR THE PURPOSES OF EARTHWORKS CALCULATIONS A GROUND SLAB DEPTH OF 200mm HAS BEEN ASSUMED WHERE REQUIRED.
4. NO ALLOWANCE HAS BEEN MADE FOR BULKING FACTORS. NOTE ALL VOLUMES DEPICTED ARE SOLID VOLUMES ONLY AND MAY NOT REFLECT DETAILED EARTHWORKS.
5. NO ALLOWANCE HAS BEEN MADE FOR DETAILED EARTHWORKS; ie SERVICE TRENCHING, DETAILED EXCAVATION, FOOTINGS, RETAINING WALLS AND THE LIKE. CONTRACTOR IS TO ALLOW FOR REMOVAL OF ALL EXCESS MATERIAL GENERATED BY THE WORKS.
6. THE CONTRACTOR SHALL USE FINAL SURFACE LEVELS AND TYPICAL PAVEMENT DETAILS FOR ACTUAL EARTHWORKS LEVELS.
7. APPROXIMATE BULK EARTHWORK VALUES AS FOLLOWS;
   - 7.1. CUT 155,548 m^3
   - 7.2. FILL 22,701 m^3
   - 7.3. BALANCE 132,847 m^3 (EXCESS)
   - 7.4. NOTE: SITE STRIPPING VOLUMES HAVE NOT BEEN INCLUDED IN ABOVE CALCULATIONS.
8. TEMPORARY 1:1 SLOPES FOR EXCAVATIONS HAVE BEEN ADOPTED (UNO). CONTRACTOR TO CONFIRM ADEQUACY WITH GEOTECHNICAL ENGINEER. SHORING WALLS TO BE PROVIDED AT STEEPER SLOPES IN ACCORDANCE WITH STRUCTURAL ENGINEER'S DETAILS.

DRAWN: V. CHON
DESIGNED: J. CARROLL
JOB MANAGER: B. LAWRENCE
VERIFIER:

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
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02	ISSUED FOR DA APPROVAL	UM		JC	08.03.23

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SCALE 1:500@ A1 (0 5 10 15 20 25m)

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Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

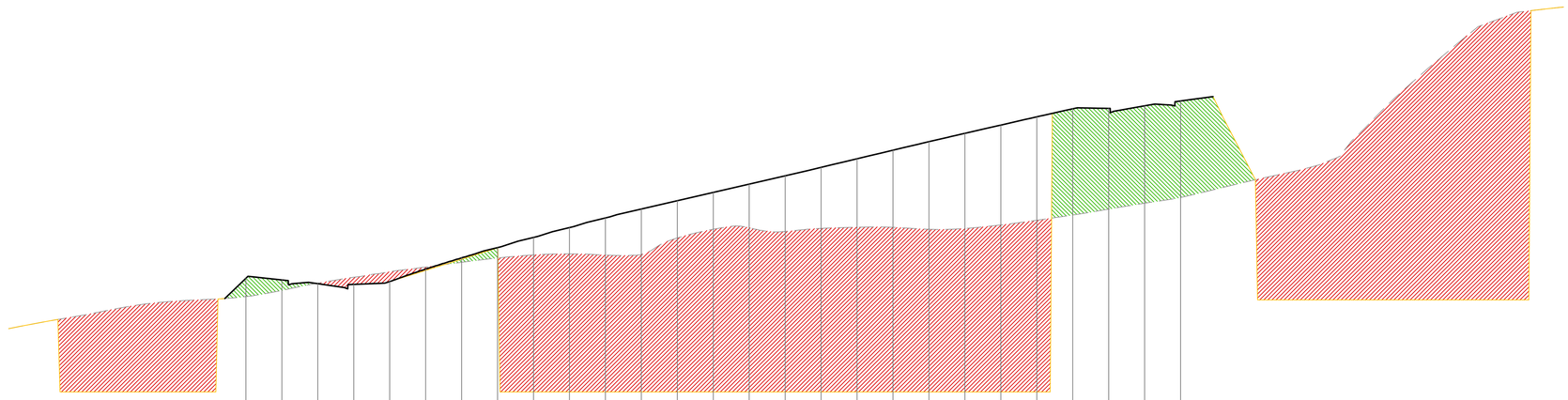
PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
BULK EARTHWORKS CUT AND FILL PLAN

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC2001**
REVISION **02**
DRAWING SHEET SIZE = A1

LEGEND

- DENOTES BULK CUT AREA
- DENOTES BULK FILL AREA



DATUM RL 50.0

CHAINAGE	FINISHED SURFACE LEVEL	BULK EARTHWORKS SURFACE	EXISTING SURFACE
0			
5			
10		55.145	55.145
15		52.8	55.37
20		52.8	55.598
25		52.8	55.823
30		52.8	55.954
35		52.8	56.02
40	56.75	56.75	56.115
45	56.693	56.693	56.327
50	56.563	56.563	56.582
55	56.538	56.538	56.789
60	56.636	56.634	56.979
65	57.071	57.024	57.142
70	57.461	57.414	57.305
75	57.817	57.806	57.455
80	58.17	52.8	57.563
85	58.512	52.8	57.601
90	58.847	52.8	57.557
95	59.159	52.8	57.582
100	59.448	52.8	58.153
105	59.736	52.8	58.455
110	60.025	52.8	58.509
115	60.314	52.8	58.379
120	60.607	52.8	58.486
125	60.906	52.8	58.526
130	61.204	52.8	58.523
135	61.5	52.8	58.455
140	61.79	52.8	58.483
145	62.076	52.8	58.606
150	62.364	52.8	58.768
155	62.643	62.642	58.95
160	62.656	62.656	59.154
165	62.746	62.746	59.359
170	62.914	62.914	59.559
175		62.814	59.854
180		60.372	60.152
185		56	60.427
190		56	60.768
195		56	61.82
200		56	63.068
205		56	64.172
210		56	65.219
215		56	65.833
220		66.091	66.091
225			
230			

BULK EARTHWORKS SECTION A

HORIZONTAL SCALE 1:400@A1
VERTICAL SCALE 1:100@A1

DRAWN: V. CHON DESIGNED: J. CARROLL JOB MANAGER: B. LAWRENCE VERIFIER:

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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
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SCALE 1:100 @ A1 — 0 1 2 3 4 5m
SCALE 1:400@ A1 — 0 4 8 12 16 20m

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Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

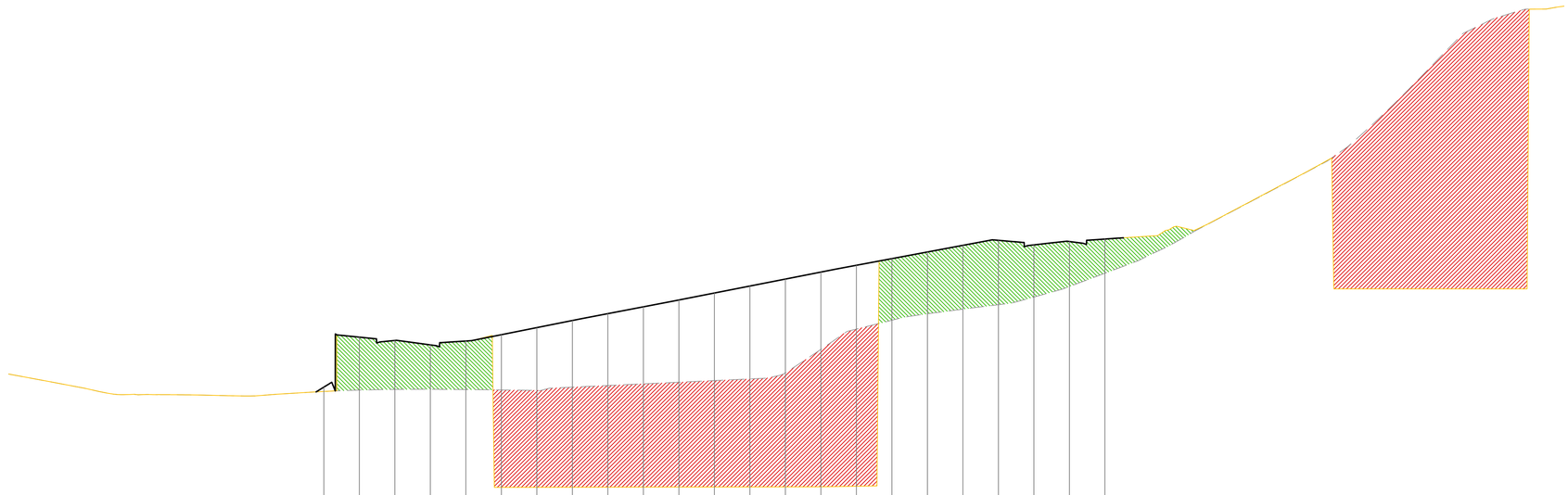
PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
BULK EARTHWORKS CUT AND FILL SECTIONS - SHEET 01

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC2101**
REVISION **02**
DRAWING SHEET SIZE = A1

LEGEND

- DENOTES BULK CUT AREA
- DENOTES BULK FILL AREA



DATUM RL 47.0

CHAINAGE	FINISHED SURFACE LEVEL	BULK EARTHWORKS SURFACE	EXISTING SURFACE
0			52.796
5			52.561
10		52.796	52.307
15		52.561	52.28
20		52.307	52.27
25		52.28	52.247
30		52.27	52.228
35		52.247	52.314
40		52.228	52.386
45		52.314	52.436
50	52.54	52.386	52.458
55	54.3	54.3	52.464
60	54.182	54.182	52.454
65	54.026	54.026	52.44
70	54.163	54.163	52.425
75	54.385	49.01	52.539
80	54.635	49.012	52.597
85	54.885	49.014	52.655
90	55.127	49.016	52.712
95	55.367	49.018	52.77
100	55.608	49.02	52.828
105	55.853	49.022	53.047
110	56.099	49.025	53.869
115	56.344	49.027	54.583
120	56.59	49.029	54.895
125	56.829	49.05	55.121
130	57.064	57.067	55.283
135	57.298	57.297	55.442
140	57.532	57.534	55.712
145	57.709	57.709	56.082
150	57.548	57.548	56.55
155	57.666	57.666	57.029
160	57.753	57.753	57.652
165		57.836	58.341
170		58.2	59.001
175		58.351	59.663
180		59.012	60.326
185		59.674	61.184
190		60.341	62.341
195		56	63.593
200		56	64.881
205		56	65.533
210		56	65.848
215		56	
220		65.848	
225			
230			
231.585			

BULK EARTHWORKS SECTION B

HORIZONTAL SCALE 1:400@A1
VERTICAL SCALE 1:100@A1

DRAWN: V. CHON DESIGNED: J. CARROLL JOB MANAGER: B. LAWRENCE VERIFIER:

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SCALE 1:400@ A1 — 0 4 8 12 16 20m

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Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
BULK EARTHWORKS CUT AND FILL SECTIONS - SHEET 02

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC2102** REVISION **02**
DRAWING SHEET SIZE = A1

LEGEND

- DENOTES BULK CUT AREA
- DENOTES BULK FILL AREA

DATUM RL 42.0

CHAINAGE	FINISHED SURFACE LEVEL	BULK EARTHWORKS SURFACE	EXISTING SURFACE
0			
5			
10	49.554	49.554	
15	49.427	49.427	49.475
20	49.532	49.532	49.475
25	49.371	49.371	49.402
30	49.598	49.598	49.396
35		49.408	49.407
40		44.6	49.422
45		44.6	49.436
50		44.6	49.449
55		44.6	49.454
60		44.6	49.46
65		44.6	49.467
70		44.6	49.472
75		44.6	49.474
80		44.6	49.474
85		44.6	49.474
90		44.6	49.469
95		44.6	49.468
100		44.6	49.472
105		44.6	49.465
110		44.6	49.465
115		44.6	49.472
120		44.6	49.475
125		44.6	49.479
130		44.6	49.478
135		44.6	49.475
140		44.6	49.478
145		44.6	49.502
150		44.6	49.532
155		44.6	49.561
160		44.6	49.588
165		44.6	49.614
170		44.6	49.636
175		44.6	49.674
180		44.6	49.717
185		44.6	49.758
190		44.6	49.801
195		44.6	49.83
200		44.6	49.861
205		44.6	50.58
210		44.6	52.528
215		44.6	54.576
220		44.6	57
225		44.6	59.508
230		60.42	60.42
235			
237.253			

BULK EARTHWORKS SECTION C

HORIZONTAL SCALE 1:400@A1
VERTICAL SCALE 1:100@A1

DRAWN: V. CHON
DESIGNED: J. CARROLL
JOB MANAGER: B. LAWRENCE
VERIFIER:

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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
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SCALE 1:400@ A1 — 0 4 8 12 16 20m

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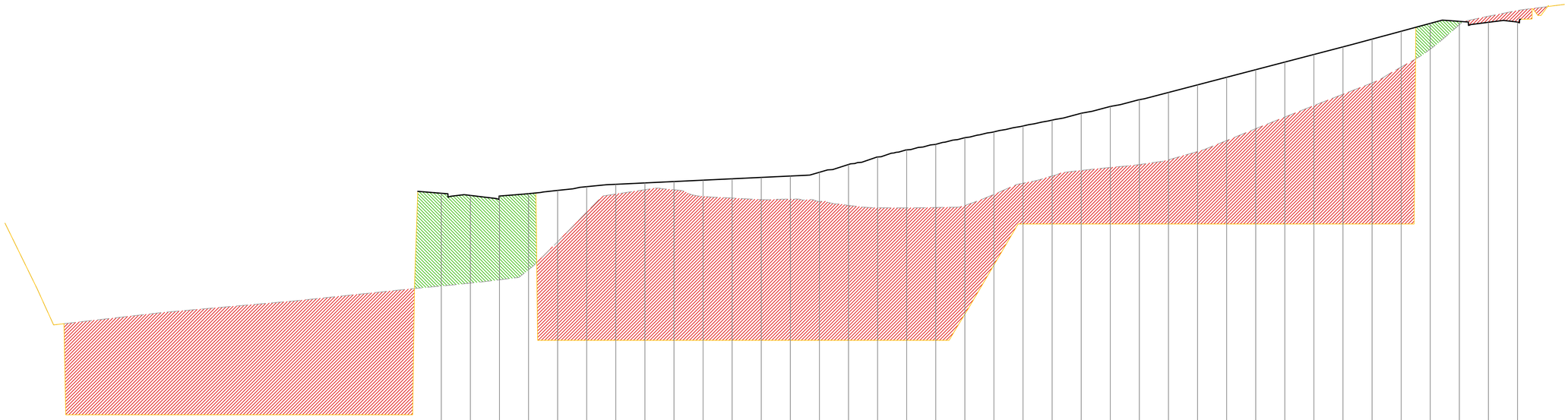
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

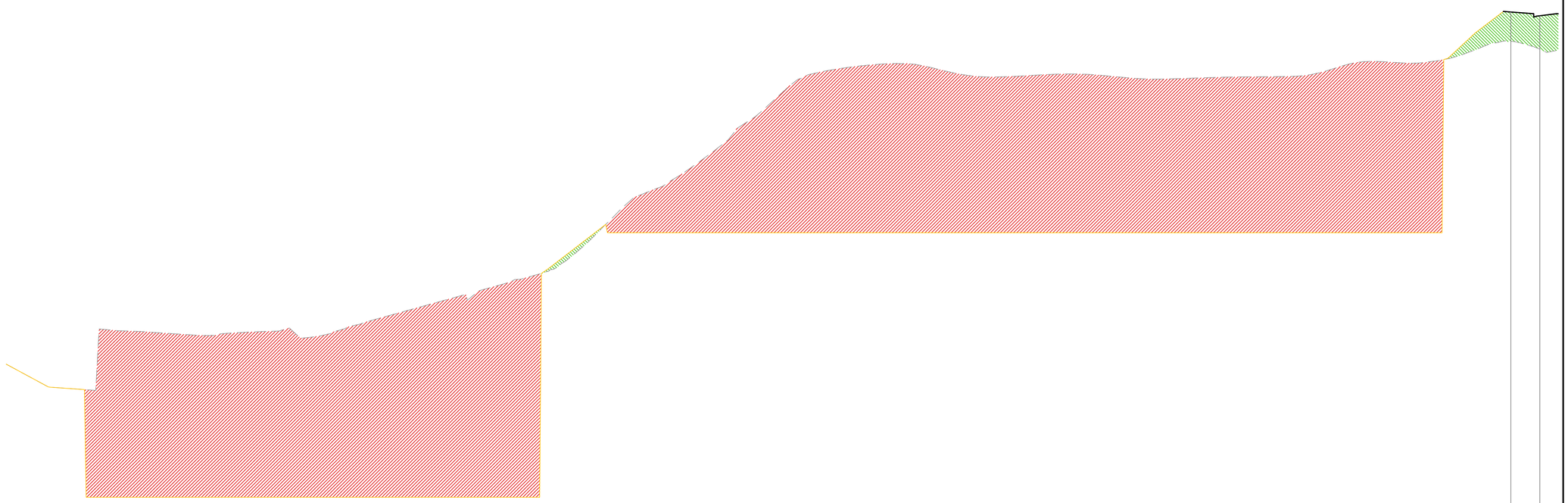
DRAWING TITLE
CIVIL ENGINEERING PACKAGE DEVELOPMENT APPLICATION
BULK EARTHWORKS CUT AND FILL SECTIONS - SHEET 03

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC2103**
REVISION **02**
DRAWING SHEET SIZE = A1



DATUM RL 42.0

| | | |



LEGEND

- DENOTES BULK CUT AREA
- DENOTES BULK FILL AREA

DATUM RL 42.0

CHAINAGE	EXISTING SURFACE	BULK EARTHWORKS SURFACE	FINISHED SURFACE LEVEL
0			
5	49.725	49.725	
10	49.311	49.311	
15	49.223	44.6	
20	51.775	44.6	
25	51.721	44.6	
30	51.637	44.6	
35	51.573	44.6	
40	51.69	44.6	
45	51.747	44.6	
50	51.738	44.6	
55	51.576	44.6	
60	51.976	44.6	
65	52.326	44.6	
70	52.671	44.6	
75	53.016	44.6	
80	53.11	44.6	
85	53.705	44.6	
90	54.052	44.6	
95	54.439	54.647	
100	55.409	55.61	
105	56.634	56	
110	57.64	56	
115	58.22	56	
120	59.048	56	
125	60.002	56	
130	61.069	56	
135	62.193	56	
140	62.875	56	
145	63.1	56	
150	63.239	56	
155	63.285	56	
160	63.117	56	
165	62.833	56	
170	62.711	56	
175	62.747	56	
180	62.814	56	
185	62.839	56	
190	62.767	56	
195	62.654	56	
200	62.622	56	
205	62.659	56	
210	62.699	56	
215	62.716	56	
220	62.727	56	
225	62.795	56	
230	63.116	56	
235	63.374	56	
240	63.337	56	
245	63.328	56	
250	63.549	63.714	
255	63.996	64.826	
260	64.24	65.51	65.51
265	63.907	65.348	65.348

BULK EARTHWORKS SECTION E

HORIZONTAL SCALE 1:400@A1
VERTICAL SCALE 1:100@A1

DRAWN: V. CHON
DESIGNED: J. CARROLL
JOB MANAGER: B. LAWRENCE
VERIFIER:

NOT FOR CONSTRUCTION

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02	ISSUED FOR DA APPROVAL	UM		JC	08.03.23

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ARCHITECT
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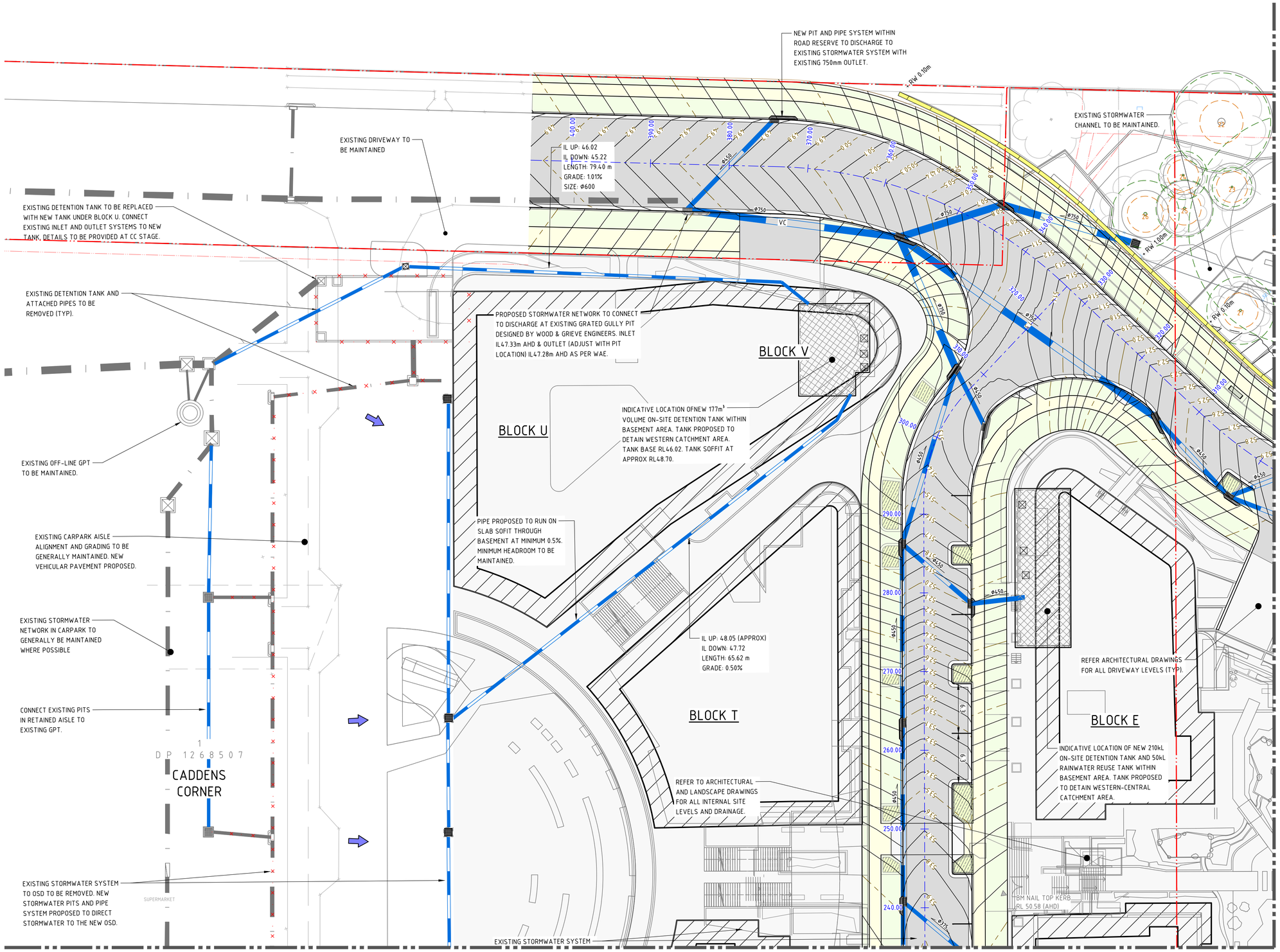
SCALE 1:100 @ A1 — 0 1 2 3 4 5m
SCALE 1:400@ A1 — 0 4 8 12 16 20m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
BULK EARTHWORKS CUT AND FILL SECTIONS - SHEET 05

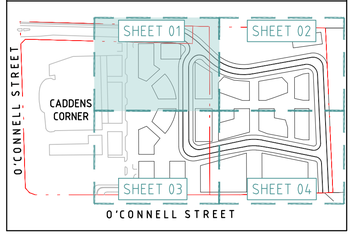
JOB NUMBER **SY222070**
DRAWING NUMBER **DAC2105**
REVISION **02**
DRAWING SHEET SIZE = A1



LEGEND

- EXISTING BOUNDARY LINE
- SITE BOUNDARY LINE
- EXISTING EASEMENT LINE
- EXISTING SERVICES (E, NBN, W, S)
- PROPOSED KERB
- EXISTING KERB
- FUTURE KERB
- SAWCUT AND PAVEMENT INFILL
- DD — DISH DRAIN
- KG — KERB AND GUTTER
- RKG — ROLL KERB AND GUTTER
- KR — KERB RAMP
- BATTERS
- XX.XX — PROPOSED CONTOURS
- XXXX — EXISTING CONTOURS
- Ø150 — STORMWATER PIPE
- EXISTING STORMWATER PIPE
- EXISTING TO BE REMOVED
- DRAINAGE STRUCTURE WITH EXTENDED CHAMBER (NEW / EXTG)
- GRATED INLET PIT (NEW / EXTG)
- KERB INLET PIT (NEW / EXTG)
- JUNCTION PIT (NEW / EXTG)
- 1 / A — STORMWATER PIT TAG LINE ID / STRUCTURE No.
- OSD — ON SITE DETENTION TANK
- CONCRETE HEADWALL
- RIP RAP ENERGY DISSIPATER
- LIMIT OF WORKS
- PROPOSED RETAINING WALL
- GRASS SWALE
- ROAD PAVEMENT
- FOOTPATH PAVEMENT
- VERGE AND PERMANENT BATTER / LANDSCAPE AREAS
- PROPOSED BIO-RETENTION
- TREE TO BE REMOVED
- TREE TO BE RETAINED
- STRUCTURAL ROOT ZONE (SRZ) OF TREE TO BE RETAINED
- TREE PROTECTION ZONE (TPZ) OF TREE TO BE RETAINED

KEY PLAN



NOT FOR CONSTRUCTION

DRAWN: V. CHON
DESIGNED: J. CARROLL
JOB MANAGER: B. LAWRENCE
VERIFIER:

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
01	ISSUED FOR INFORMATION	AF		JC	22.12.22
02	ISSUED FOR DA APPROVAL	UM		JC	08.03.23

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SCALE 1:250@ A1 (0 2 4 6 8 10 12m)

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Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: CADDENS CORNER O'CONNELL STREET, CADDENS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE DEVELOPMENT APPLICATION
SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 01

JOB NUMBER: SY222070
DRAWING NUMBER: DAC3001
REVISION: 02
DRAWING SHEET SIZE = A1

PLOTTED: THU 09 MAR 2023 2:00:52 PM - C:\Users\Connor\Desktop\SY222070 - Caddens Corner\Drawings\CIVIL\DAC\CAD\SY222070_DAC3001.dwg

REFER TO LANDSCAPE DRAWINGS FOR WALKWAY DETAILS.

EXISTING STORMWATER CHANNEL TO BE MAINTAINED.

PROPOSED RETAINING WALL AND FOOTING ALIGNED TO GENERALLY AVOID ROOT STRUCTURES OF NEARBY RETAINED TREES.

BLOCK A

ROOF AREA TO BE DIRECTED TO PROPOSED 10kL STORMWATER TANK FOR LOCAL IRRIGATION AND REUSE AS REQUIRED.

BLOCK D

BLOCK C

BLOCK B

REFER ARCHITECTURAL DRAWINGS FOR ALL DRIVEWAY LEVELS (TYP).

INDICATIVE LOCATION OF NEW 170kL ON-SITE DETENTION TANK + 50kL RAINWATER REUSE TANK IN BASEMENT AREA. TANK PROPOSED TO DETAIN EASTERN-CENTRAL CATCHMENT AREA.

SWALE TO GENERALLY DISCHARGE INTO STREET STORMWATER

PROVIDE GRASS SWALE TO DIRECT AND CAPTURE STORMWATER FROM UPSTREAM CATCHMENT.

PROPOSED RETAINING WALL

2 DP 1268507

3 DP 1268507

FOR CONTINUATION REFER TO SHEET 01

FOR CONTINUATION REFER TO SHEET 04

LEGEND

- EXISTING BOUNDARY LINE
- SITE BOUNDARY LINE
- EXISTING EASEMENT LINE
- EXISTING SERVICES (E, N B N, W, S)
- PROPOSED KERB
- EXISTING KERB
- FUTURE KERB
- SAWCUT AND PAVEMENT INFILL
- DD — DISH DRAIN
- KG — KERB AND GUTTER
- RKG — ROLL KERB AND GUTTER
- KR — KERB RAMP
- BATTERS
- XX.XX — PROPOSED CONTOURS
- XX.XX — EXISTING CONTOURS
- Ø150 — STORMWATER PIPE
- EXISTING STORMWATER PIPE
- EXISTING TO BE REMOVED
- DRAINAGE STRUCTURE WITH EXTENDED CHAMBER (NEW / EXTG)
- GRATED INLET PIT (NEW / EXTG)
- KERB INLET PIT (NEW / EXTG)
- JUNCTION PIT (NEW / EXTG)
- 1 / A — STORMWATER PIT TAG LINE ID / STRUCTURE No.
- OSD — ON SITE DETENTION TANK
- CONCRETE HEADWALL
- RIP RAP ENERGY DISSIPATER
- LIMIT OF WORKS — LIMIT OF WORKS
- PROPOSED RETAINING WALL
- GRASS SWALE
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- FOOTPATH PAVEMENT
- VERGE AND PERMANENT BATTER / LANDSCAPE AREAS
- PROPOSED BIO-RETENTION
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- STRUCTURAL ROOT ZONE (SRZ) OF TREE TO BE RETAINED
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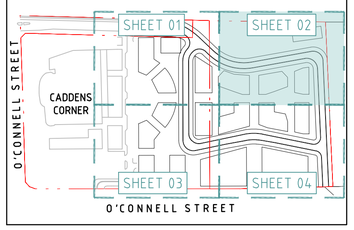
KEY PLAN



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ARCHITECT: TURNER

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PROJECT: CADDENS CORNER O'CONNELL STREET, CADDENS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE DEVELOPMENT APPLICATION

SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 02

JOB NUMBER: SY222070

DRAWING NUMBER: DAC3002

REVISION: 02

DRAWING SHEET SIZE = A1

DRAWN: V. CHON | DESIGNED: J. CARROLL | JOB MANAGER: B. LAWRENCE | VERIFIER:

FOR CONTINUATION REFER TO SHEET 01

TO OSD TO BE REMOVED. NEW STORMWATER PITS AND PIPE SYSTEM PROPOSED TO DIRECT STORMWATER TO THE NEW OSD.

EXISTING STORMWATER NETWORK IN CARPARK TO GENERALLY BE MAINTAINED.

ROOF OF BUILDINGS NORTH OF BLOCK S ARE PROPOSED TO CONNECT INTO THE NEW LIKE-FOR-LIKE OSD LOCATED UNDER BUILDING V.

ROOF OF BUILDINGS R, Q AND P PROPOSED TO CONNECT TO EXISTING STORMWATER SYSTEM, EVENTUALLY DISCHARGING TO REMAINING ON SITE DETENTION TANK IN SOUTHERN END OF WOOLWORTHS CARPARK.

1
DP 1268507
CADDENS CORNER

BLOCK S

BLOCK R

BLOCK F

BLOCK Q

BLOCK P

BLOCK N

SOUTHERN OSD / RWT / SWQC

INDICATIVE LOCATION OF NEW 240kL ON-SITE DETENTION TANK + 50kL RAINWATER REUSE TANK IN BASEMENT AREA. TANK PROPOSED TO DETAIN SOUTHERN CATCHMENT AREA.

EXISTING RAMP TO REMAIN

O'CONNELL STREET

FOR CONTINUATION REFER TO SHEET 04

LEGEND

- EXISTING BOUNDARY LINE
- SITE BOUNDARY LINE
- EXISTING EASEMENT LINE
- EXISTING SERVICES (E, N B N, W, S)
- PROPOSED KERB
- EXISTING KERB
- FUTURE KERB
- SAWCUT AND PAVEMENT INFILL
- DD — DISH DRAIN
- KG — KERB AND GUTTER
- RKG — ROLL KERB AND GUTTER
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- LIMIT OF WORKS — LIMIT OF WORKS
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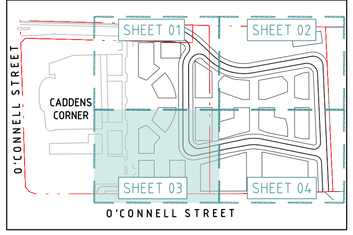
KEY PLAN



DESIGNED: J. CARROLL
DRAWN: V. CHON
JOB MANAGER: B. LAWRENCE
VERIFIER:

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ARCHITECT: TURNER

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SCALE 1:250@ A1 (0 2 4 6 8 10 12m)

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Ph (02) 9241 4188 Fax (02) 9241 4324
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PROJECT: CADDENS CORNER O'CONNELL STREET, CADDENS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE DEVELOPMENT APPLICATION
SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 03

JOB NUMBER: SY222070
DRAWING NUMBER: DAC3003
REVISION: 02
DRAWING SHEET SIZE = A1

FOR CONTINUATION REFER TO SHEET 02

FOR CONTINUATION REFER TO SHEET 03

BLOCK G

BLOCK H

BLOCK J

BLOCK M

BLOCK L

BLOCK K

SWALE TO GENERALLY DISCHARGE INTO STREET STORMWATER

PROPOSED RETAINING WALL

PROVIDE GRASS SWALE TO DIRECT AND CAPTURE STORMWATER FROM UPSTREAM CATCHMENT.

WALL HEIGHT VARIES BETWEEN POINTS SHOWN. FULL DETAIL AT CC STAGE.

REFER TO ARCHITECTS DRAWINGS FOR BASEMENT ACCESS AND DRIVEWAY LEVELS

DP 1268507

MC02

MC01

RW 1.40m

RW 2.00m

RW 0.15m

O'CONNELL STREET

LEGEND

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- SITE BOUNDARY LINE
- EXISTING EASEMENT LINE
- EXISTING SERVICES (E, G, NBN, W, S)
- PROPOSED KERB
- EXISTING KERB
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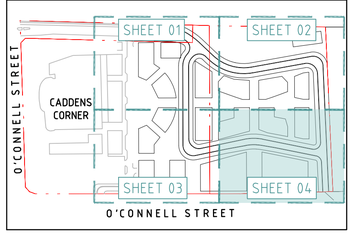
KEY PLAN



DESIGNED: J. CARROLL
JOB MANAGER: B. LAWRENCE
VERIFIER:
DRAWN: V. CHON

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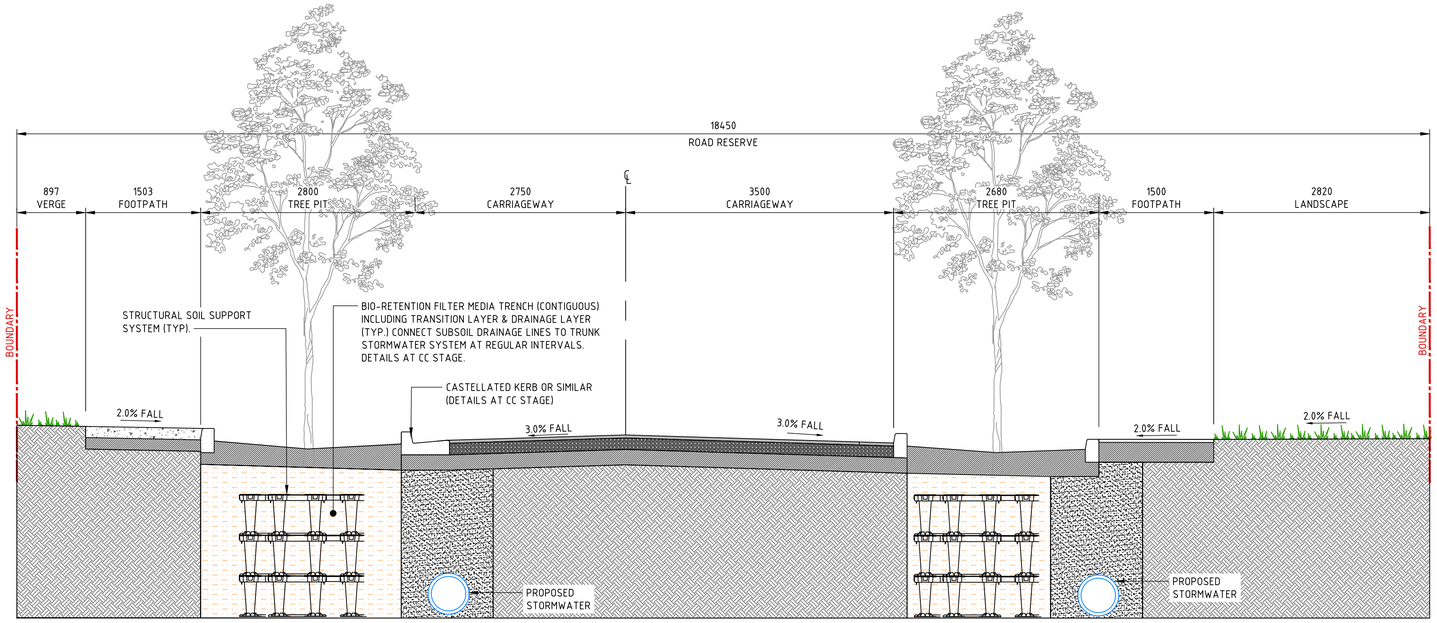
PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 04

JOB NUMBER **SY222070**

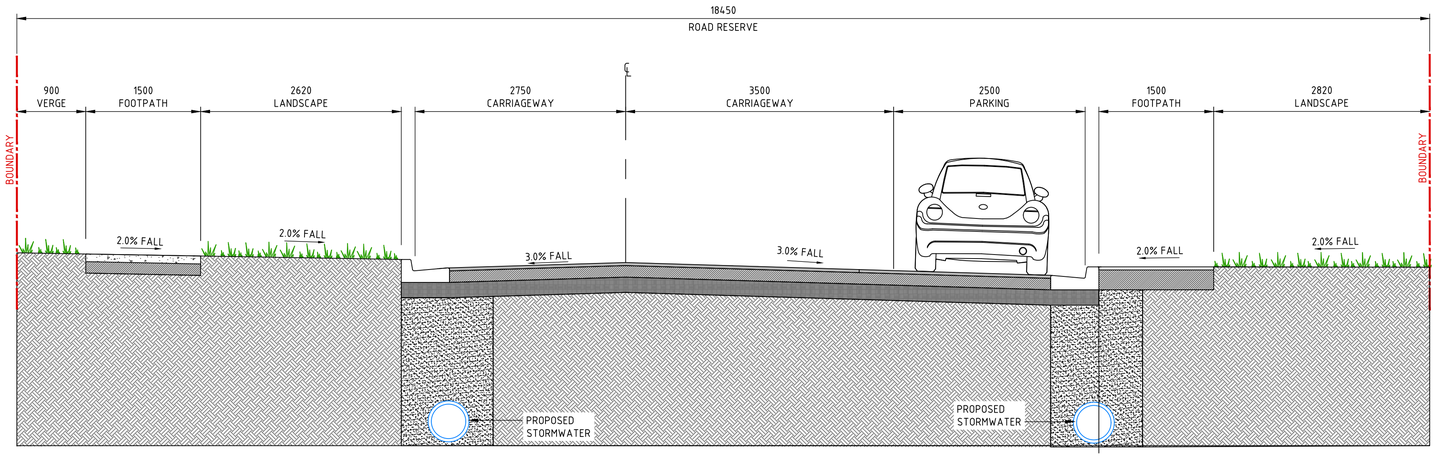
DRAWING NUMBER **DAC3004** REVISION **02**

DRAWING SHEET SIZE = A1



TYPICAL ROAD SECTION - TREE PIT

SCALE 1:40



TYPICAL ROAD SECTION - PARKING

SCALE 1:40

DRAWN: V. CHON DESIGNED: J. CARROLL JOB MANAGER: B. LAWRENCE VERIFIER:

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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
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SCALE 1:40@A1 0.0 0.4 0.8 1.2 1.6 2.0m

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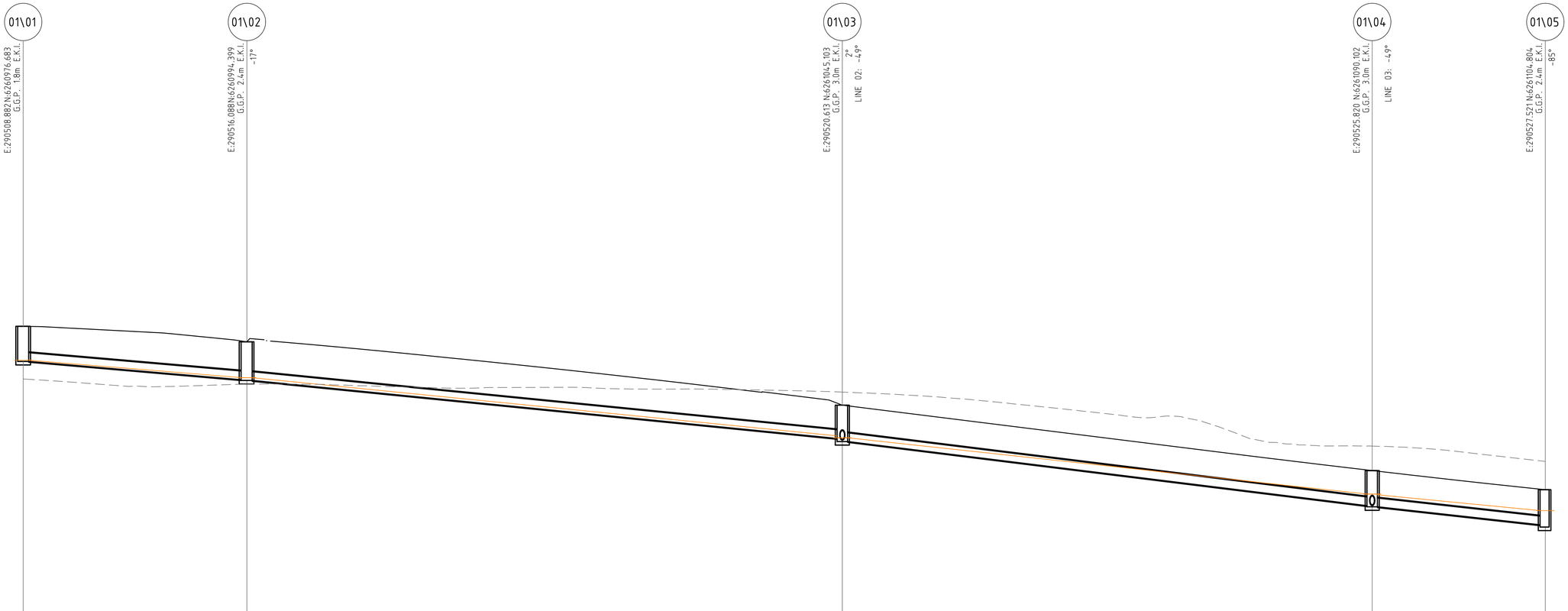
PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
ROAD TYPICAL SECTIONS

JOB NUMBER **SY222070**

DRAWING NUMBER **DAC4000** REVISION **01**

DRAWING SHEET SIZE = A1



PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2
PIPE GRADE (%)	4.1%	4.9%	6.1%	5.2%
PIPE SIZE (mm)	375	375	375	375
MINIMUM COVER (m)	1.09	1.10	1.10	1.10
Vf (MAJOR) - FULL PIPE VELOCITY (m/s)	Vf=1.45	Vf=2.58	Vf=2.85	Vf=3.20
Q (MAJOR) - PIPE FLOW (L/s)	Q=15	Q=74	Q=172	Q=271
DATUM RL	44.0			

H.G.L. (MAJOR)	63.344	63.344	62.597	62.597	62.596	60.110	60.028	60.028	57.624	57.624	57.592	56.917	56.917
FINISHED SURFACE	64.792		64.130			61.422			58.628			57.810
NATURAL SURFACE	62.543		62.328			61.981			59.673			59.019
PIPE INVERT LEVEL	63.292		62.509	62.479		59.999	59.867		57.126	57.079		56.309
DEPTH TO INVERT	1.500		1.622	1.652		1.423	1.555		1.502	1.548		1.501
CHAINAGE	0.000		19.125			70.031			115.330			130.130

LINE 01

HORIZONTAL SCALE 1:200@A1
VERTICAL SCALE 1:100@A1

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DRAWN: V. CHON
DESIGNED: J. CARROLL
JOB MANAGER: B. LAWRENCE
VERIFIER:

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PROJECT
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O'CONNELL STREET, CADDENS

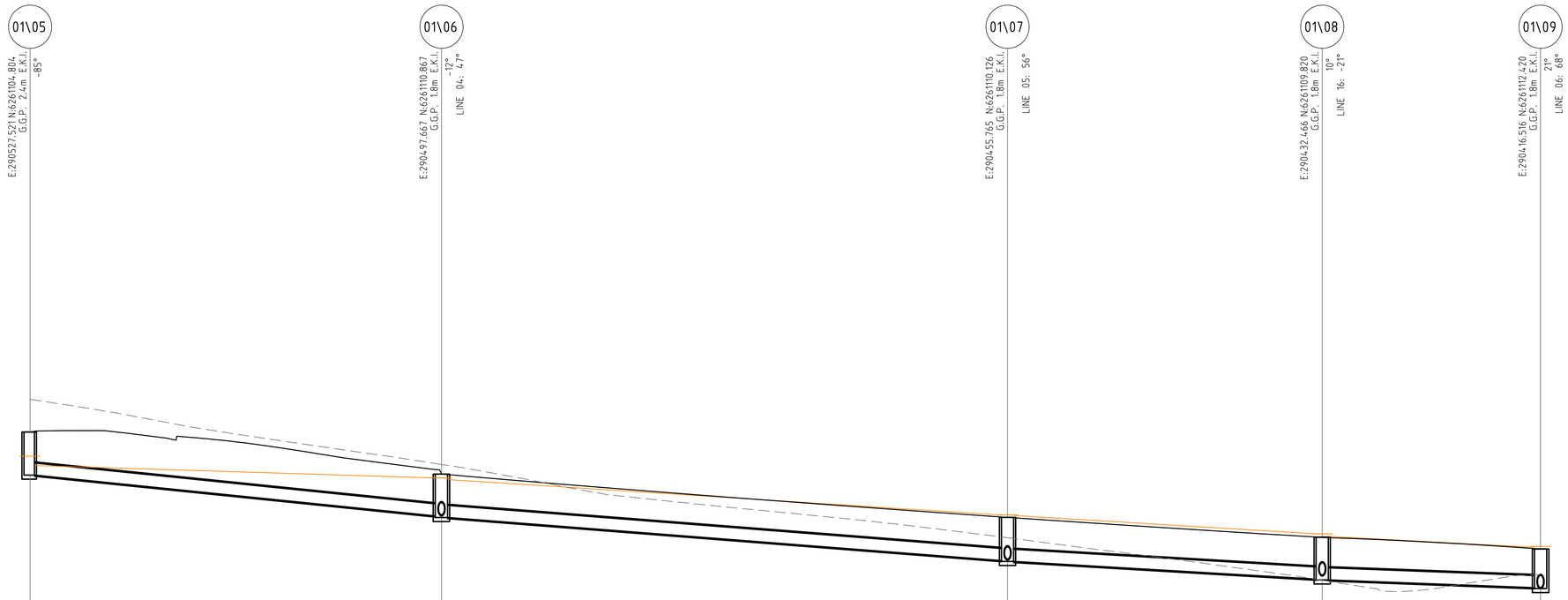
DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
STORMWATER
LONGITUDINAL SECTIONS - SHEET 01

JOB NUMBER
SY222070

DRAWING NUMBER	REVISION
DAC4101	01

DRAWING SHEET SIZE = A1

Fusion - Hub Projects\2022\SY222070 - Caddens Corner\Drawings\Civil\CADD\DRAWINGS\DAC4101.dwg



	01\05	01\06	01\07	01\08	01\09
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2	
PIPE GRADE (%)	5.0%	3.8%	2.8%	1.8%	
PIPE SIZE (mm)	450	450	450	450	
MINIMUM COVER (m)	1.13	1.06	1.06	0.96	
Vf (MAJOR) - FULL PIPE VELOCITY (m/s)	Vf=3.31	Vf=2.97	Vf=2.75	Vf=2.94	
Q (MAJOR) - PIPE FLOW (L/s)	Q=329	Q=440	Q=438	Q=467	
DATUM RL	39.0				
H.G.L. (MAJOR)	56.917 56.917	56.568 56.110 58.110	56.049 54.737 54.737	54.720 54.042 54.042	53.951 53.543 53.575
FINISHED SURFACE	57.810	56.254	54.651	53.918	53.482
NATURAL SURFACE	59.019	56.607	53.897	52.322	52.532
PIPE INVERT LEVEL	56.309 56.214	54.703 54.646	53.051 53.021	52.367 52.337	52.050
DEPTH TO INVERT	1.501 1.596	1.550 1.608	1.600 1.630	1.551 1.581	1.432
CHAINAGE	130.130	160.593	202.502	225.803	241.963

LINE 01

HORIZONTAL SCALE 1:200@A1
VERTICAL SCALE 1:100@A1

NOT FOR CONSTRUCTION

DRAWN: V. CHON
DESIGNED: J. CARROLL
JOB MANAGER: B. LAWRENCE
VERIFIER:

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
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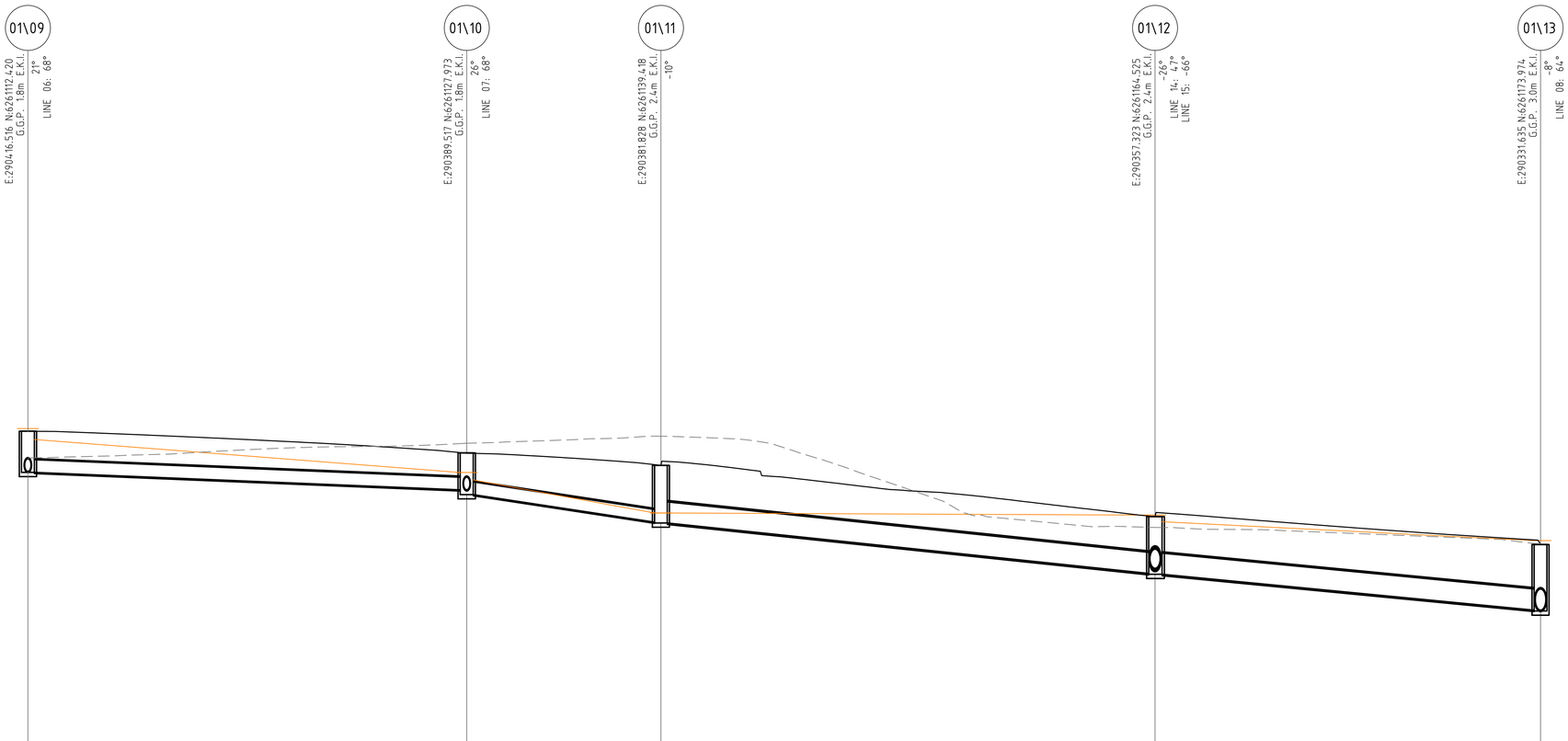
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
STORMWATER LONGITUDINAL SECTIONS - SHEET 02

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC4102**
REVISION **01**
DRAWING SHEET SIZE = A1



PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2
PIPE GRADE (%)	2.0%	7.1%	5.1%	4.6%
PIPE SIZE (mm)	450	450	750	750
MINIMUM COVER (m)	0.83	0.97	1.21	1.38
Vf (MAJOR) - FULL PIPE VELOCITY (m/s)	Vf=3.20	Vf=4.04	Vf=3.18	Vf=2.85
Q (MAJOR) - PIPE FLOW (L/s)	Q=508	Q=582	Q=627	Q=1257
DATUM RL	34.0			

H.G.L. (MAJOR)	53.543	53.515	53.188	52.016	52.016	51.750	50.579	50.579	50.579	50.503	50.506	50.270	49.598	49.598
FINISHED SURFACE	53.482			52.711			52.270			50.450			49.459	
NATURAL SURFACE	52.532			53.054			53.304			50.065			49.487	
PIPE INVERT LEVEL	52.050	52.020		51.399	51.230		50.252	50.222		48.431	48.401		47.729	
DEPTH TO INVERT	1.432	1.462		1.312	1.481		2.018	2.048		2.018	2.048		2.330	
CHAINAGE	241.963			273.122			286.910			321.993			349.364	

LINE 01

HORIZONTAL SCALE 1:200@A1
VERTICAL SCALE 1:100@A1

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DRAWN: V. CHON
DESIGNED: J. CARROLL
JOB MANAGER: B. LAWRENCE
VERIFIER:

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Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
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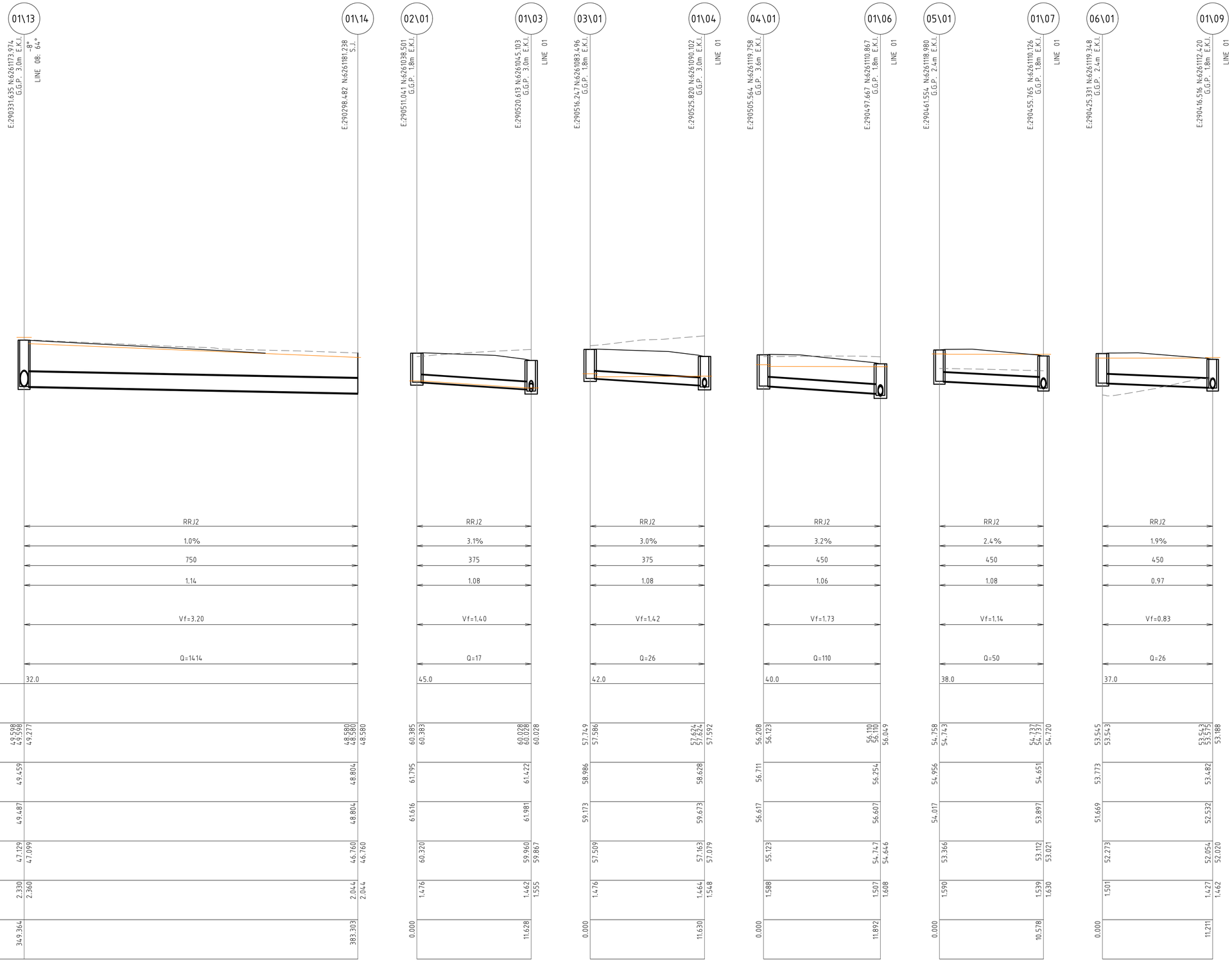
PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
STORMWATER LONGITUDINAL SECTIONS - SHEET 03

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC4103**
REVISION **01**
DRAWING SHEET SIZE = A1



HORIZONTAL SCALE 1:200@A1
VERTICAL SCALE 1:100@A1

DRAWN: V. CHON
DESIGNED: J. CARROLL
JOB MANAGER: B. LAWRENCE
VERIFIER:

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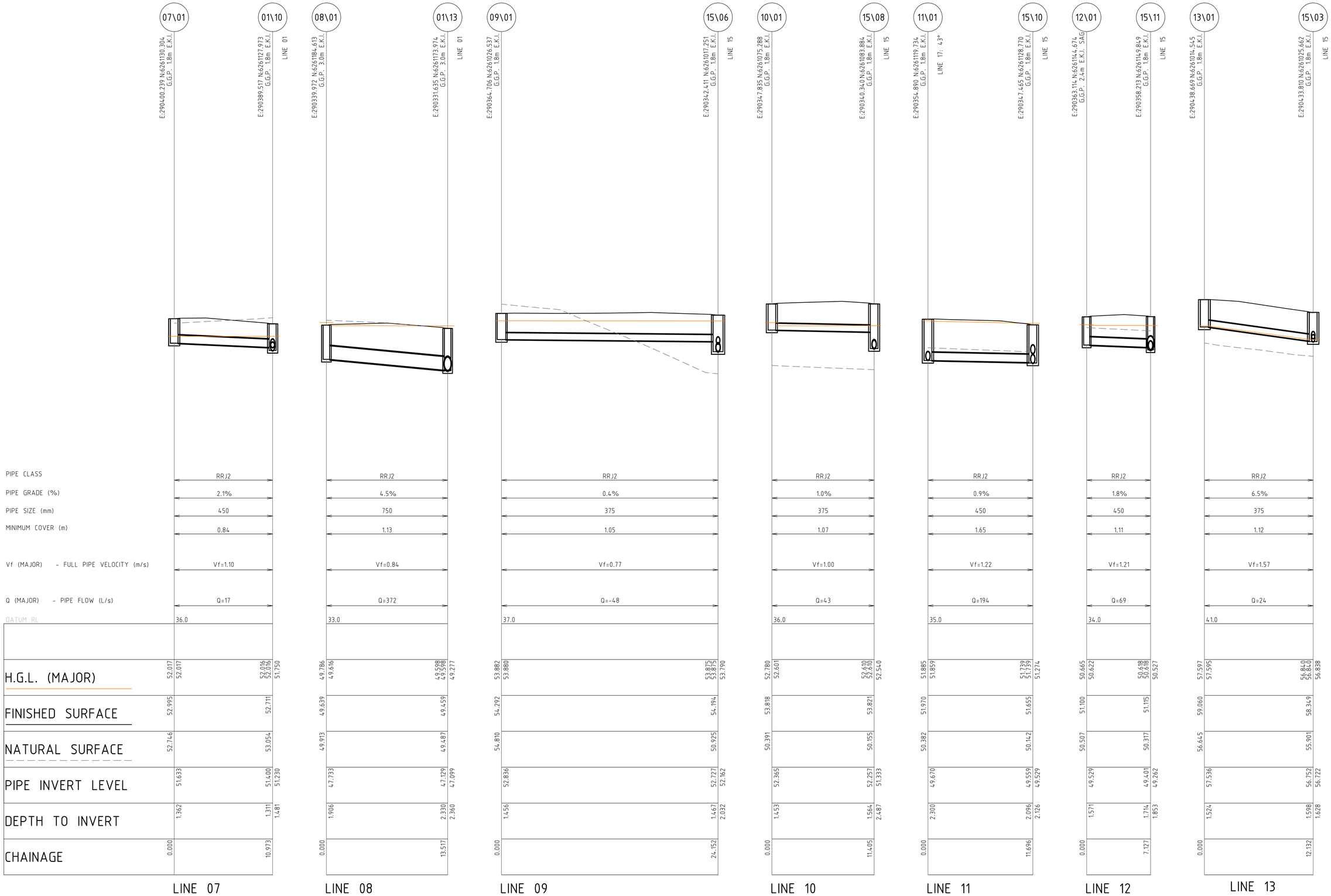
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
STORMWATER LONGITUDINAL SECTIONS - SHEET 04

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC4104**
REVISION **01**
DRAWING SHEET SIZE = A1



HORIZONTAL SCALE 1:200@A1
VERTICAL SCALE 1:100@A1

DRAWN: V. CHON DESIGNED: J. CARROLL JOB MANAGER: B. LAWRENCE VERIFIER:

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Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

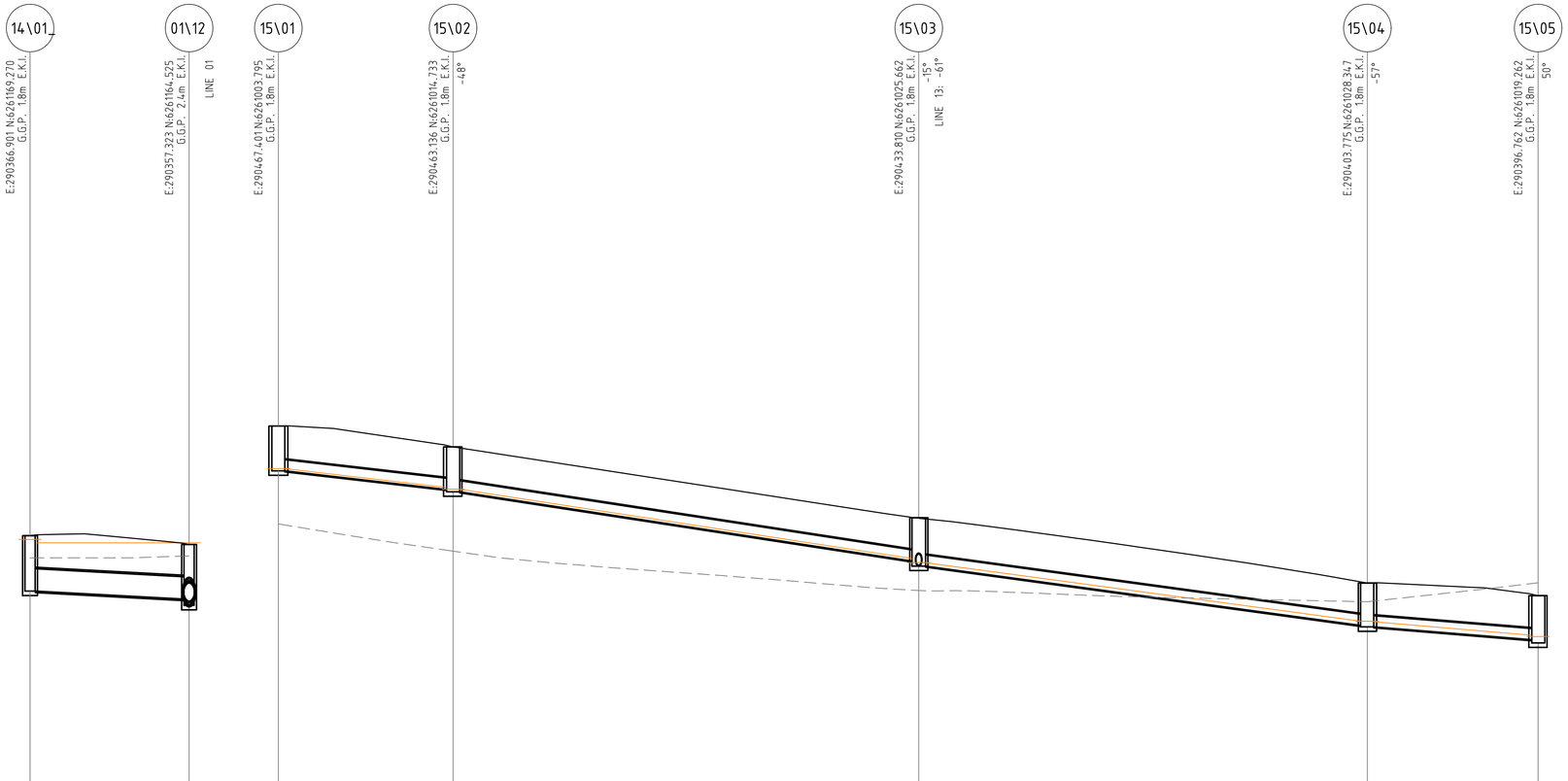
PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
STORMWATER LONGITUDINAL SECTIONS - SHEET 05

JOB NUMBER
SY222070

DRAWING NUMBER **DAC4105** REVISION **01**

DRAWING SHEET SIZE = A1



	14\01	01\12	15\01	15\02	15\03	15\04	15\05
PIPE CLASS	RRJ2		RRJ2	RRJ2	RRJ2	RRJ2	RRJ2
PIPE GRADE (%)	2.5%		5.3%	7.4%	6.6%	3.8%	
PIPE SIZE (mm)	750		375	375	375	375	
MINIMUM COVER (m)	1.07		1.07	1.05	1.05	1.07	
Vf (MAJOR) - FULL PIPE VELOCITY (m/s)	Vf=1.78		Vf=1.92	Vf=2.78	Vf=2.94	Vf=2.37	
Q (MAJOR) - PIPE FLOW (L/s)	Q=314		Q=28	Q=51	Q=95	Q=115	
DATUM RL	34.0		41.0				
H.G.L. (MAJOR)	50.618 50.503	50.503 50.506 50.270	59.998 59.995	59.364 59.302 59.302	56.974 56.840 56.838	54.870 54.870 54.849	54.398 54.355
FINISHED SURFACE	50.744	50.450	61.428	60.727	58.349	56.153	55.730
NATURAL SURFACE	49.995	50.065	58.140	57.225	55.901	55.524	56.162
PIPE INVERT LEVEL	48.883	48.613 48.401	59.923	59.297 59.218	56.891 56.722	54.729 54.681	54.248
DEPTH TO INVERT	1.861	1.837 2.048	1.506	1.429 1.508	1.458 1.628	1.424 1.472	1.482
CHAINAGE	0.000	10.689	0.000	11.740	43.036	73.191	84.667

LINE 14 LINE 15

HORIZONTAL SCALE 1:200@A1
VERTICAL SCALE 1:100@A1

DRAWN: V. CHON DESIGNED: J. CARROLL JOB MANAGER: B. LAWRENCE VERIFIER:

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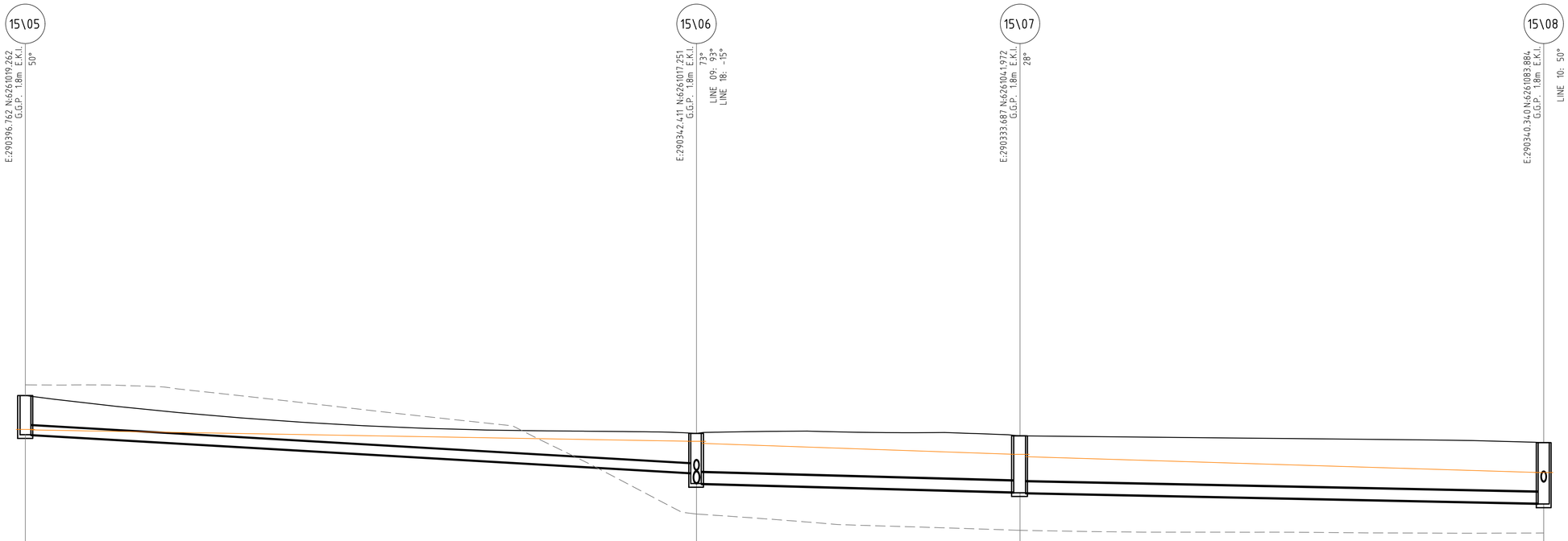
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
CADDENS CORNER O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE DEVELOPMENT APPLICATION
STORMWATER LONGITUDINAL SECTIONS - SHEET 06

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC4106**
REVISION **01**
DRAWING SHEET SIZE = A1



PIPE CLASS	RRJ2	RRJ2	RRJ2
PIPE GRADE (%)	2.8%	1.3%	1.0%
PIPE SIZE (mm)	375	450	450
MINIMUM COVER (m)	0.73	1.57	1.81
Vf (MAJOR) - FULL PIPE VELOCITY (m/s)	Vf=2.51	Vf=2.03	Vf=1.97
Q (MAJOR) - PIPE FLOW (L/s)	Q=143	Q=298	Q=313
DATUM RL	37.0		

H.G.L. (MAJOR)	54.398	54.355	54.336	53.875	53.875	53.790	53.317	53.347	53.251	52.610	52.610
FINISHED SURFACE	55.730			54.994			54.095			53.821	
NATURAL SURFACE	56.162			50.925			50.263			50.155	
PIPE INVERT LEVEL	54.248	54.141		52.594	52.162		51.817	51.787		51.363	
DEPTH TO INVERT	1.482	1.589		1.600	2.032		2.278	2.308		2.457	
CHAINAGE	84.667			139.055			165.271			207.708	

LINE 15

HORIZONTAL SCALE 1:200@A1
VERTICAL SCALE 1:100@A1

DRAWN: V. CHON
DESIGNED: J. CARROLL
JOB MANAGER: B. LAWRENCE
VERIFIER:

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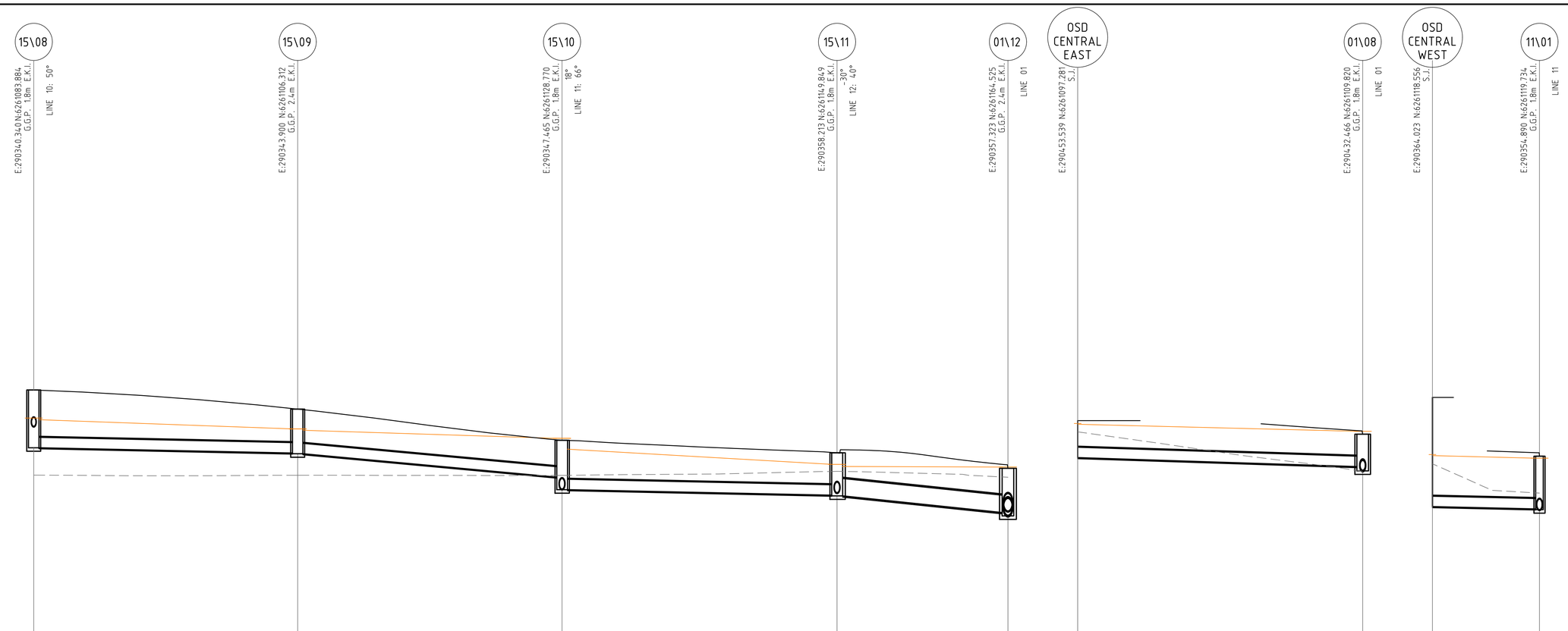
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
STORMWATER LONGITUDINAL SECTIONS - SHEET 07

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC4107**
REVISION **01**
DRAWING SHEET SIZE = A1



	15\08	15\09	15\10	15\11	01\12	OSD CENTRAL EAST	01\08	OSD CENTRAL WEST	11\01
PIPE CLASS	RRJ2	RRJ2	RRJ2	RRJ2		RRJ2		RRJ2	
PIPE GRADE (%)	1.0%	4.4%	1.0%	4.9%		1.6%		1.1%	
PIPE SIZE (mm)	450	450	450	750		450		450	
MINIMUM COVER (m)	1.42	1.11	1.35	1.18		1.06		1.93	
Vf (MAJOR) - FULL PIPE VELOCITY (m/s)	Vf=2.15	Vf=3.46	Vf=3.02	Vf=3.49		Vf=1.71		Vf=1.24	
Q (MAJOR) - PIPE FLOW (L/s)	Q=342	Q=347	Q=480	Q=544		Q=193		Q=181	
DATUM RL	35.0					37.0		36.0	
H.G.L. (MAJOR)	52.610 52.610 52.540	52.146 52.146 52.085	51.739 51.739 51.274	50.618 50.618 50.527	50.503 50.506 50.270	54.378 54.345	54.042 54.042 53.951	52.040 51.996	51.885 51.885 51.859
FINISHED SURFACE	53.821	52.996	51.655	51.115	50.450	54.500	53.918	54.500	51.970
NATURAL SURFACE	50.155	50.150	50.142	50.317	50.065	54.019	52.322	51.643	50.382
PIPE INVERT LEVEL	51.363 51.333	51.106 51.076	50.070 49.529	49.292 49.262	48.544 48.401	52.908	52.522 52.337	49.800	49.700 49.670
DEPTH TO INVERT	2.457 2.487	1.890 1.920	1.586 2.126	1.823 1.853	1.906 2.048	1.592	1.397 1.581	4.700	2.270 2.300
CHAINAGE	207.708	230.416	253.156	276.816	291.520	0.000	24.521	0.000	9.209

LINE 15 LINE 16 LINE 17

HORIZONTAL SCALE 1:200@A1
VERTICAL SCALE 1:100@A1

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DRAWN: V. CHON DESIGNED: J. CARROLL JOB MANAGER: B. LAWRENCE VERIFIER:

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Level 11 345 George Street, Sydney NSW 2000
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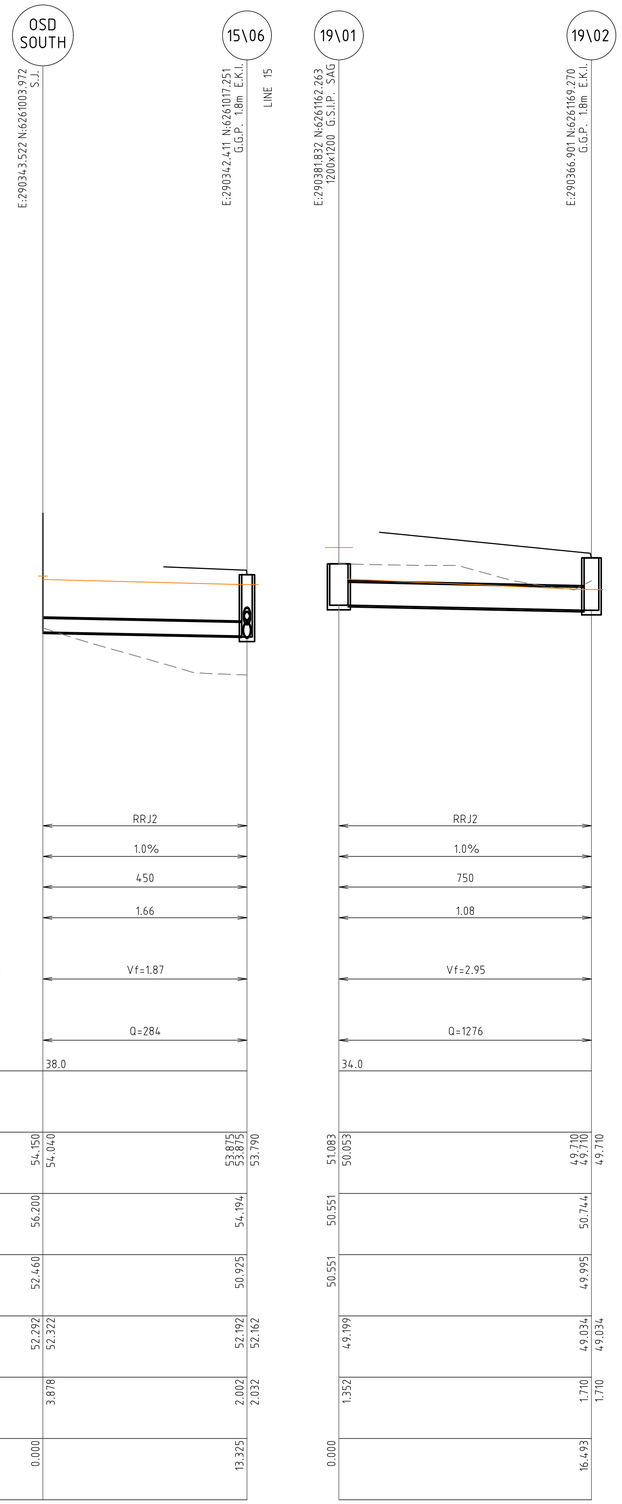
PROJECT
CADDENS CORNER O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE DEVELOPMENT APPLICATION
STORMWATER LONGITUDINAL SECTIONS - SHEET 08

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC4108** REVISION **01**
DRAWING SHEET SIZE = A1



HORIZONTAL SCALE 1:200@A1
VERTICAL SCALE 1:100@A1

DRAWN: V. CHON DESIGNED: J. CARROLL JOB MANAGER: B. LAWRENCE VERIFIER:

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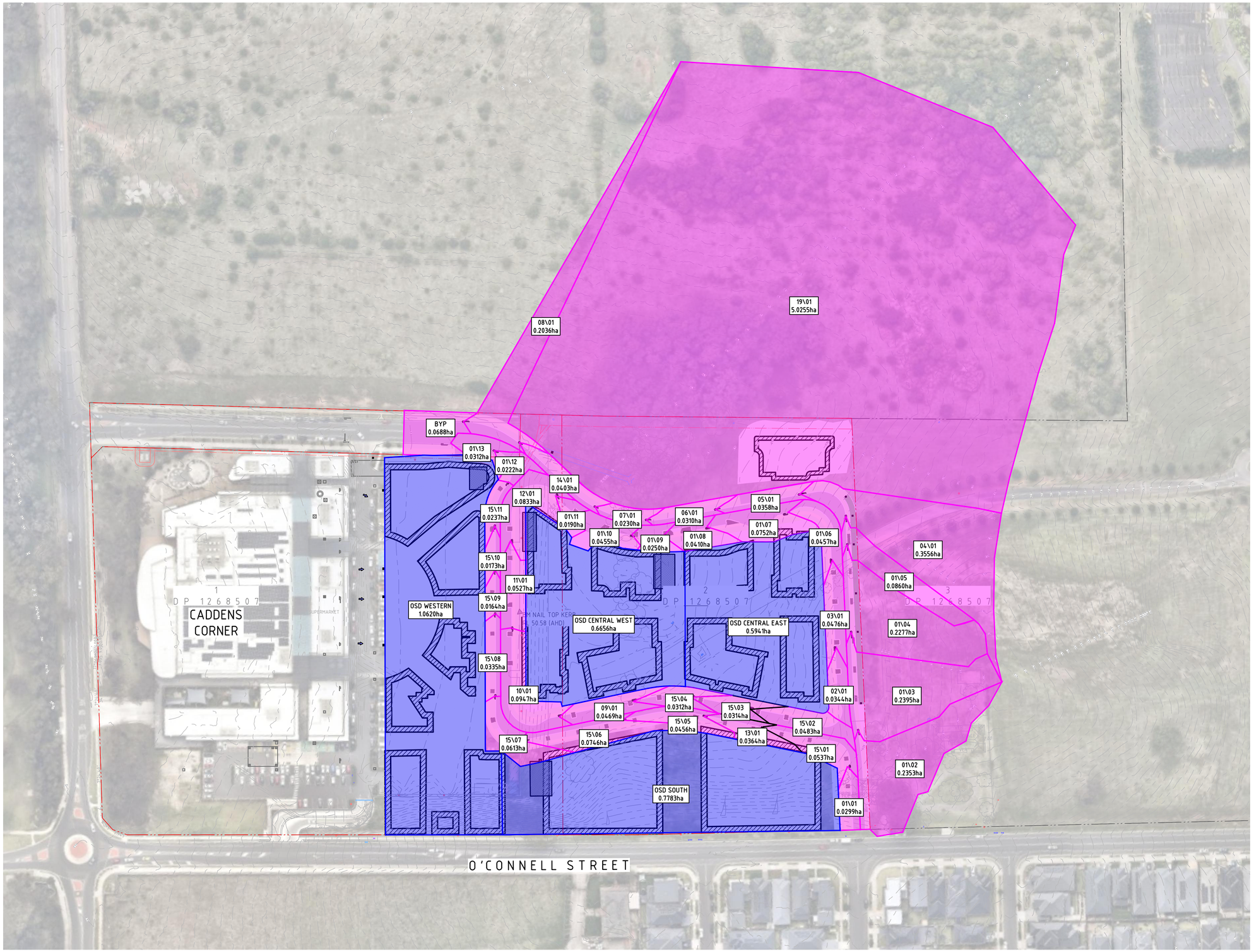
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
STORMWATER LONGITUDINAL SECTIONS - SHEET 09

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC4109**
REVISION **01**
DRAWING SHEET SIZE = A1



LEGEND

- LOT BOUNDARY LINE
- CATCHMENT BOUNDARY
- OSD BYPASS CATCHMENT BOUNDARY
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- OSD — ON-SITE DETENTION TANK

STORMWATER SUMMARY

STORMWATER QUANTITY

- STORMWATER QUANTITY MODELLING WAS PERFORMED USING SOFTWARE 'DRAINS' FOR STORMWATER EVENTS FROM THE 20% AEP (MINOR EVENT) TO THE 1% AEP (MAJOR EVENT).
- A TOTAL OF 584kL DETENTION STORAGE WAS DETERMINED TO RESTRICT POST-DEVELOPED FLOWS TO PRE-DEVELOPED FLOWS FOR THE EVENTS MENTIONED ABOVE. THIS DOES NOT INCLUDE THE LIKE-FOR-LIKE DETENTION OF THE WESTERN CATCHMENT.
- DETENTION STORAGE/TANKS TO BE PROVIDED AT BASEMENT-LEVEL OR BELOW GROUND AT LANDSCAPED AREAS.
- ALL ROAD AND UPSTREAM CATCHMENTS TO BYPASS OSD.

DRAWN: V. CHON DESIGNED: J. CARROLL JOB MANAGER: B. LAWRENCE VERIFIER:

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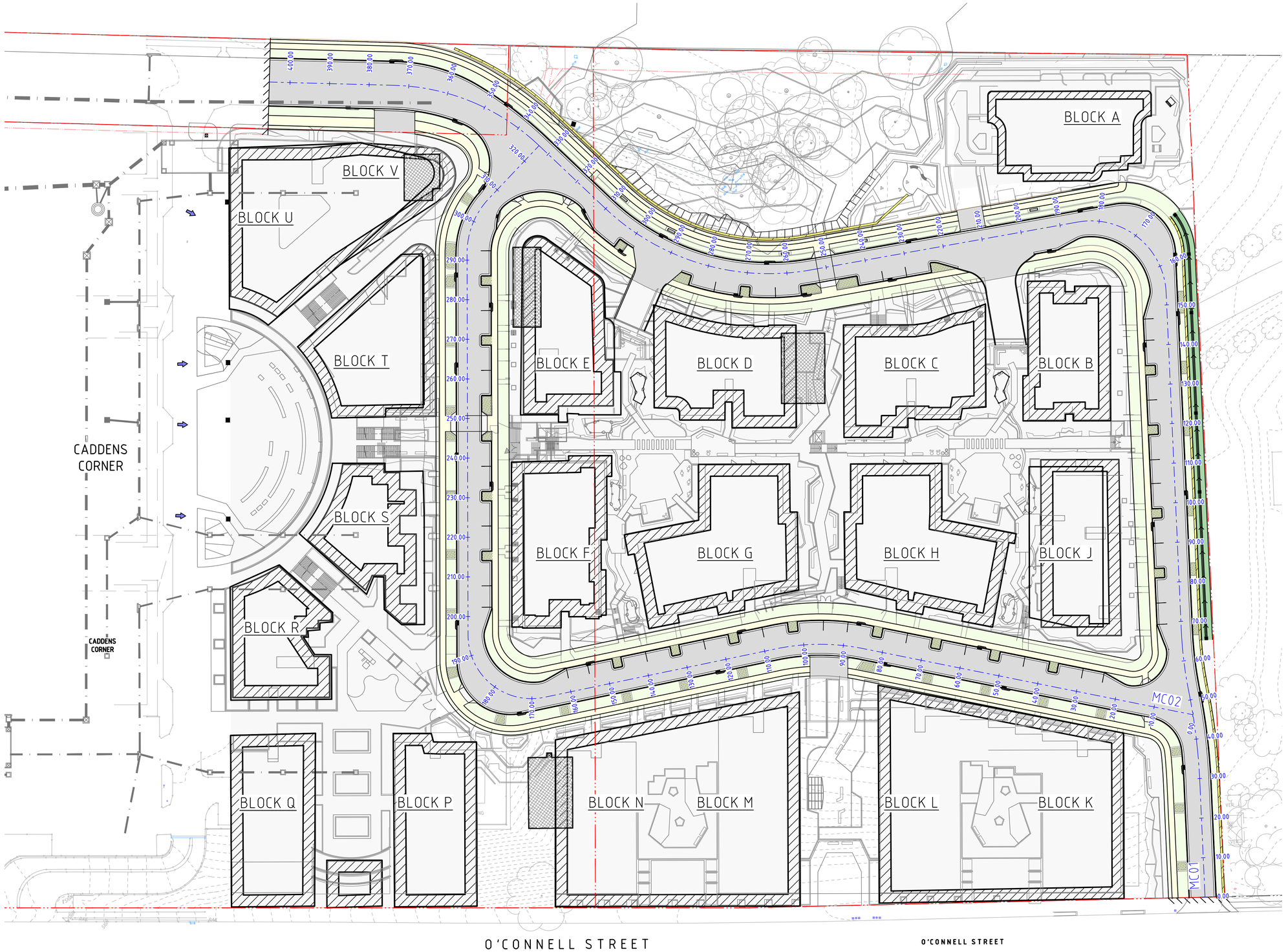
PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
STORMWATER CATCHMENT PLAN

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC4201**
REVISION **01**
DRAWING SHEET SIZE = A1



LEGEND

- EXISTING BOUNDARY LINE
- SITE BOUNDARY LINE
- EXISTING EASEMENT LINE
- MC01 ROAD CONTROL LINE
- 20.00 ROAD CONTROL LINE CHAINAGES
- LIMIT OF WORKS

DRAWN: V. CHON
DESIGNED: J. CARROLL
JOB MANAGER: B. LAWRENCE
VERIFIER:

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
01	ISSUED FOR DA APPROVAL	UM		JC	08.03.23

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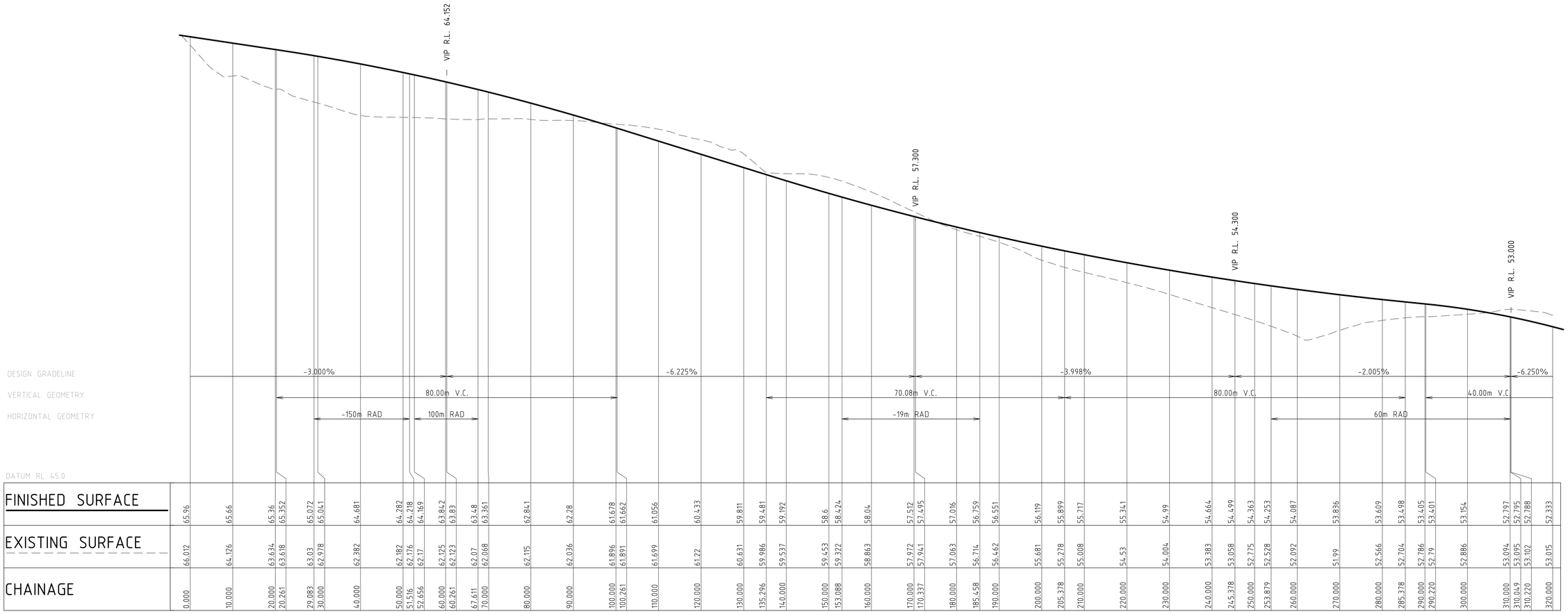
SCALE 1:500@ A1 — 0 5 10 15 20 25m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
ALIGNMENT CONTROL PLAN

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC5001**
REVISION **01**
DRAWING SHEET SIZE = A1



CHAINAGE	FINISHED SURFACE	EXISTING SURFACE
0.000	65.96	66.012
10.000	65.66	64.126
20.000	65.36	63.634
20.261	65.352	63.618
29.083	65.072	63.03
30.000	65.041	62.978
40.000	64.681	62.382
50.000	64.282	62.182
51.516	64.218	62.176
52.656	64.169	62.17
60.000	63.842	62.125
60.261	63.83	62.123
67.611	63.48	62.07
70.000	63.361	62.068
80.000	62.841	62.115
90.000	62.28	62.036
100.000	61.678	61.896
100.261	61.662	61.891
110.000	61.056	61.699
120.000	60.433	61.22
130.000	59.811	60.631
135.296	59.481	59.986
140.000	59.192	59.537
150.000	58.6	59.453
153.088	58.424	59.322
160.000	58.04	58.863
170.000	57.512	57.972
170.337	57.495	57.941
180.000	57.016	57.063
185.458	56.759	56.714
190.000	56.551	56.462
200.000	56.119	55.681
205.378	55.899	55.278
210.000	55.717	55.008
220.000	55.341	54.53
230.000	54.99	54.004
240.000	54.664	53.383
245.378	54.499	53.058
250.000	54.363	52.775
253.879	54.253	52.528
260.000	54.087	52.092
270.000	53.836	51.99
280.000	53.609	52.566
285.378	53.498	52.704
290.000	53.405	52.786
290.220	53.401	52.79
300.000	53.154	52.886
310.000	52.797	53.094
310.049	52.795	53.095
310.220	52.788	53.102
320.000	52.333	53.015

LONGITUDINAL SECTION ALONG MC01

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: V. CHON
DESIGNED: J. CARROLL
JOB MANAGER: B. LAWRENCE
VERIFIER:

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
01	ISSUED FOR INFORMATION	AF		JC	22.12.22
02	ISSUED FOR DA APPROVAL	UM		JC	08.03.23

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SCALE 1:250@A1 — 0 2 4 6 8 10 12m
SCALE 1:50@A1 — 0.0 0.5 1.0 1.5 2.0 2.5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
ROAD LONGITUDINAL SECTIONS - SHEET 01

JOB NUMBER
SY222070

DRAWING NUMBER **DAC5101** REVISION **02**

DRAWING SHEET SIZE = A1

DESIGN GRADELINE

VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

DATUM RL 42.0

FINISHED SURFACE	53.293	53.154	52.797	52.795	52.788	52.333	51.764	51.75	51.556	51.18	50.682	50.672	50.27	49.944	49.938	49.841	49.662	49.381	49.1	48.953
EXISTING SURFACE	52.819	52.886	53.094	53.095	53.102	53.015	51.706	51.669	51.176	50.155	50	50	49.983	49.943	49.942	49.928	49.64	49.396	49.095	48.953
CHAINAGE	295.000	300.000	310.000	310.049	310.220	320.000	330.000	330.220	333.399	340.000	350.000	350.220	360.000	370.000	370.220	373.668	380.000	390.000	400.000	405.220

LONGITUDINAL SECTION ALONG MC01

HORIZONTAL SCALE 1:500@A1

VERTICAL SCALE 1:100@A1

DRAWN: V. CHON DESIGNED: J. CARROLL JOB MANAGER: B. LAWRENCE VERIFIER:

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
01	ISSUED FOR INFORMATION	AF		JC	22.12.22
02	ISSUED FOR DA APPROVAL	UM		JC	08.03.23

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SCALE 1:250@A1 0 2 4 6 8 10 12m
SCALE 1:50@A1 0.0 0.5 1.0 1.5 2.0 2.5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

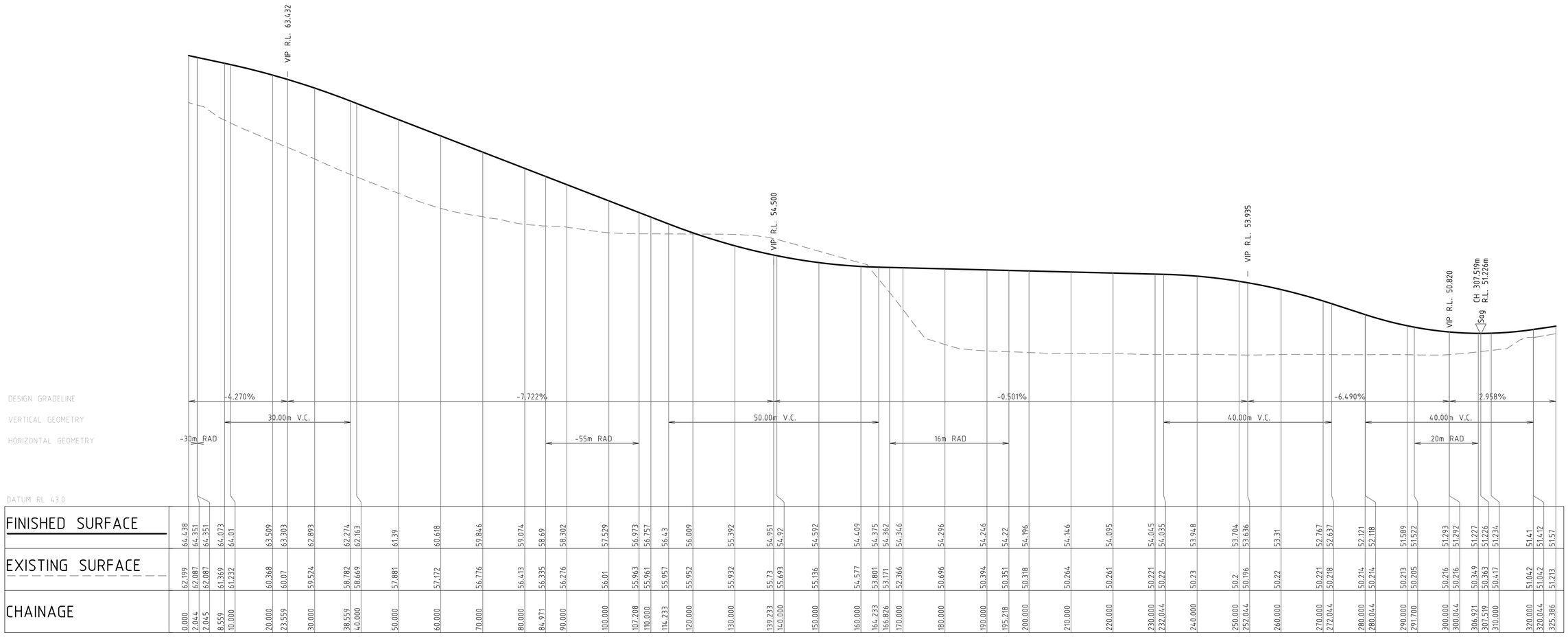
DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
ROAD LONGITUDINAL SECTIONS - SHEET 02

JOB NUMBER **SY222070**

DRAWING NUMBER **DAC5102** REVISION **02**

DRAWING SHEET SIZE = A1

Plotted: \\nas-nsw\Projects\2022 Jobs\222070 - Caddens Corner\0-Drawings\Civil\CAD\1-DRAWINGS\DAC222070_DAC5101.dwg


VIP R.L. 63.432
VIP R.L. 54.500
VIP R.L. 53.935
VIP R.L. 50.820
CH 307.519m
R.L. 51.226m
Sag
DESIGN GRADELINE
VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
-4.270%
-7.722%
-0.501%
-6.490%
2.958%
30.00m V.C.
50.00m V.C.
40.00m V.C.
40.00m V.C.
-30m RAD
-55m RAD
16m RAD
20m RAD
DATUM RL 43.0

| | | |

LEGEND	
———	FINISHED SURFACE
- - - -	EXISTING SURFACE

Centreline Data
X = 290523.253
Y = 6261102.667
Z = 58.043

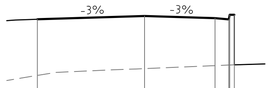
DATUM RL 57.0

FINISHED SURFACE	58.176	58.119	58.048	58.048	57.898	57.938	58.043	57.916
EXISTING SURFACE	58.192	58.365	58.604	58.613	58.615	58.641	58.863	59.055
OFFSET	-10.500	-7.680	-4.130	-3.980	-3.950	-3.500	0.000	3.791

CHAINAGE 160.000

Centreline Data
X = 290513.301
Y = 6261003.311
Z = 63.842

DATUM RL 61.0

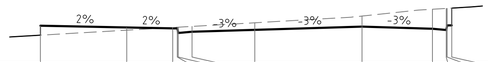


FINISHED SURFACE	63.737	63.842	63.773	63.733	63.883	63.883
EXISTING SURFACE	61.903	62.125	62.223	62.242	62.243	62.249
OFFSET	-3.500	0.000	2.300	2.750	2.780	2.930

CHAINAGE 60.000

Centreline Data
X = 290522.207
Y = 6261082.807
Z = 59.192

DATUM RL 58.0

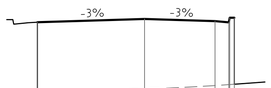


FINISHED SURFACE	59.222	59.166	59.136	59.136	58.986	59.026	59.087	59.192	59.123	59.083	59.233	59.233
EXISTING SURFACE	58.913	59.076	59.163	59.172	59.173	59.200	59.318	59.537	59.760	59.786	59.788	59.797
OFFSET	-10.500	-7.680	-6.180	-6.030	-6.000	-5.550	-3.500	0.000	2.300	2.750	2.780	2.930

CHAINAGE 140.000

Centreline Data
X = 290513.276
Y = 6260983.316
Z = 64.681

DATUM RL 61.0

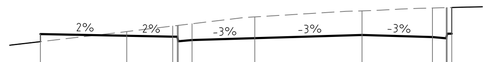


FINISHED SURFACE	64.576	64.681	64.612	64.572	64.722	64.722
EXISTING SURFACE	62.184	62.382	62.509	62.539	62.542	62.553
OFFSET	-3.500	0.000	2.300	2.750	2.780	2.930

CHAINAGE 40.000

Centreline Data
X = 290519.908
Y = 6261062.939
Z = 60.433

DATUM RL 59.0

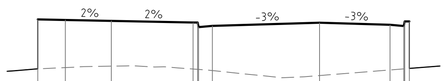


FINISHED SURFACE	60.463	60.407	60.377	60.377	60.227	60.267	60.328	60.433	60.364	60.324	60.474	60.474
EXISTING SURFACE	60.215	60.544	60.725	60.743	60.746	60.800	61.024	61.220	61.313	61.325	61.326	61.330
OFFSET	-10.500	-7.680	-6.180	-6.030	-6.000	-5.550	-3.500	0.000	2.300	2.750	2.780	2.930

CHAINAGE 120.000

Centreline Data
X = 290511.373
Y = 6260963.413
Z = 65.360

DATUM RL 63.0

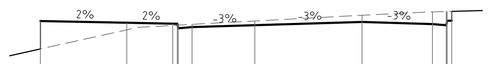


FINISHED SURFACE	65.466	65.448	65.418	65.365	65.365	65.215	65.255	65.360	65.291	65.251	65.401	65.401
EXISTING SURFACE	63.852	63.894	63.940	63.847	63.836	63.834	63.798	63.634	63.817	63.852	63.855	63.867
OFFSET	-9.200	-8.300	-6.800	-4.130	-3.980	-3.950	-3.500	0.000	2.300	2.750	2.780	2.930

CHAINAGE 20.000

Centreline Data
X = 290517.610
Y = 6261043.072
Z = 61.678

DATUM RL 60.0

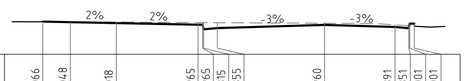


FINISHED SURFACE	61.708	61.652	61.622	61.622	61.472	61.512	61.573	61.678	61.609	61.569	61.719	61.719
EXISTING SURFACE	60.797	61.419	61.564	61.572	61.574	61.599	61.709	61.896	62.006	62.018	62.019	62.023
OFFSET	-10.500	-7.680	-6.180	-6.030	-6.000	-5.550	-3.500	0.000	2.300	2.750	2.780	2.930

CHAINAGE 100.000

Centreline Data
X = 290509.074
Y = 6260943.545
Z = 65.960

DATUM RL 65.0

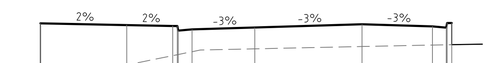


FINISHED SURFACE	66.066	66.048	66.018	65.965	65.965	65.815	65.855	65.960	65.891	65.851	66.001	66.001
EXISTING SURFACE	66.061	66.058	66.053	66.036	66.035	66.035	66.032	66.012	65.961	65.931	65.929	65.919
OFFSET	-9.200	-8.300	-6.800	-4.130	-3.980	-3.950	-3.500	0.000	2.300	2.750	2.780	2.930

CHAINAGE 0.000

Centreline Data
X = 290515.311
Y = 6261023.204
Z = 62.841

DATUM RL 60.0



FINISHED SURFACE	62.871	62.814	62.784	62.784	62.634	62.674	62.736	62.841	62.772	62.732	62.882	62.882
EXISTING SURFACE	60.875	61.512	61.817	61.847	61.853	61.945	62.039	62.115	62.162	62.170	62.171	62.174
OFFSET	-10.500	-7.680	-6.180	-6.030	-6.000	-5.550	-3.500	0.000	2.300	2.750	2.780	2.930

CHAINAGE 80.000

Centreline Data
X = 290509.898
Y = 6261116.306
Z = 57.026

DATUM RL 56.0

FINISHED SURFACE	57.158	57.102	57.031	57.031	56.881	56.921	57.026	56.956
EXISTING SURFACE	57.471	57.370	57.231	57.225	57.224	57.205	57.063	56.940
OFFSET	-10.500	-7.680	-4.130	-3.980	-3.950	-3.500	0.000	3.210

CHAINAGE 180.000

HORIZONTAL SCALE 1:100@A1
VERTICAL SCALE 1:100@A1

DRAWN: V. CHON
DESIGNED: J. CARROLL
JOB MANAGER: B. LAWRENCE
VERIFIER:

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
01	ISSUED FOR INFORMATION	AF		JC	22.12.22
02	ISSUED FOR DA APPROVAL	UM		JC	08.03.23

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ARCHITECT
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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:100 @ A1 0 1 2 3 4 5m

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PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
CROSS SECTIONS - SHEET 01

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC5201**
REVISION **02**
DRAWING SHEET SIZE = A1

Plotted: Mon, 13 Mar 2023 10:22 J:\SY222070 - Caddens Corner\D-Drawings\Cad\DAC5201.dwg

LEGEND

- FINISHED SURFACE
- EXISTING SURFACE

Centreline Data
X = 290352.638
Y = 6261174.400
Z = 50.298

DATUM RL 48.0

2% 2% -3% -3% -3% 2% 2%

FINISHED SURFACE	50.355	50.337	50.287	50.242	50.242	50.092	50.132	50.193	50.298	50.154	50.114	50.264	50.264	50.311	50.341	50.359	50.365
EXISTING SURFACE	49.887	49.891	49.941	49.981	49.981	49.981	49.980	49.979	49.983	49.996	49.997	49.997	49.998				
OFFSET	-11.830	-10.930	-8.430	-6.180	-6.030	-6.000	-5.550	-3.500	0.000	4.804	5.254	5.284	5.434	7.757	9.257	10.157	10.457

CHAINAGE 360.000

Centreline Data
X = 290368.864
Y = 6261162.898
Z = 51.129

DATUM RL 49.0

-3% -3% 2% 2%

FINISHED SURFACE	51.024	51.129	51.055	51.015	51.165	51.165	51.218	51.248	51.266	51.272
EXISTING SURFACE	50.087	50.155	50.052	49.997	49.996	49.995	50.189	50.317	50.438	50.479
OFFSET	-3.500	0.000	2.474	2.924	2.954	3.104	5.749	7.249	8.149	8.449

CHAINAGE 340.000

Centreline Data
X = 290381.309
Y = 6261147.257
Z = 52.137

DATUM RL 51.0

-3% -3% 2% 2%

FINISHED SURFACE	52.032	52.137	52.068	52.028	52.178	52.178	52.232	52.262	52.280	52.286
EXISTING SURFACE	53.126	53.015	52.834	52.796	52.793	52.781	52.552	52.376	52.247	52.204
OFFSET	-3.500	0.000	2.300	2.750	2.780	2.930	5.600	7.100	8.000	8.300

CHAINAGE 320.000

Centreline Data
X = 290394.088
Y = 6261131.910
Z = 52.926

DATUM RL 52.0

2% 2% -3% -3% -3% 2% 2%

FINISHED SURFACE	52.956	52.900	52.870	52.870	52.720	52.760	52.821	52.926	52.857	52.817	52.967	52.967	53.021	53.051	53.069	53.075
EXISTING SURFACE	53.197	53.101	53.048	53.043	53.042	53.026	52.969	52.886	52.833	52.822	52.822	52.818	52.757	52.721	52.701	52.695
OFFSET	-10.500	-7.680	-6.180	-6.030	-6.000	-5.550	-3.500	0.000	2.300	2.750	2.780	2.930	5.600	7.100	8.000	8.300

CHAINAGE 300.000

Centreline Data
X = 290410.693
Y = 6261120.928
Z = 53.471

DATUM RL 51.0

2% 2% -3% -3% -3% 2% 2%

FINISHED SURFACE	53.501	53.445	53.415	53.415	53.265	53.305	53.366	53.471	53.402	53.362	53.512	53.512	53.566	53.596	53.614	53.620
EXISTING SURFACE	52.761	52.714	52.693	52.692	52.691	52.682	52.626	52.566	52.518	52.509	52.508	52.505	52.278	52.166	52.115	52.094
OFFSET	-10.500	-7.680	-6.180	-6.030	-6.000	-5.550	-3.500	0.000	2.300	2.750	2.780	2.930	5.600	7.100	8.000	8.300

CHAINAGE 280.000

Centreline Data
X = 290429.976
Y = 6261115.983
Z = 54.034

DATUM RL 51.0

2% 2% -3% -3% -3% 2% 2%

FINISHED SURFACE	54.064	54.007	53.977	53.977	53.827	53.867	53.929	54.034	53.965	53.925	54.075	54.075	54.128	54.158	54.176	54.182
EXISTING SURFACE	52.096	52.060	52.072	52.076	52.077	52.090	52.098	52.092	52.086	52.086	52.086	52.085	52.074	52.065	52.058	52.055
OFFSET	-10.500	-7.680	-6.180	-6.030	-6.000	-5.550	-3.500	0.000	2.300	2.750	2.780	2.930	5.600	7.100	8.000	8.300

CHAINAGE 260.000

Centreline Data
X = 290449.968
Y = 6261116.025
Z = 54.665

DATUM RL 52.0

2% 2% -3% -3% -3% 2% 2%

FINISHED SURFACE	54.695	54.639	54.609	54.609	54.459	54.499	54.560	54.665	54.596	54.556	54.706	54.706	54.760	54.790	54.808	54.814
EXISTING SURFACE	53.638	53.568	53.530	53.526	53.526	53.514	53.465	53.383	53.329	53.318	53.317	53.314	53.250	53.213	53.191	53.183
OFFSET	-10.500	-7.680	-6.180	-6.030	-6.000	-5.550	-3.500	0.000	2.300	2.750	2.780	2.930	5.600	7.100	8.000	8.300

CHAINAGE 240.000

Centreline Data
X = 290469.965
Y = 6261116.378
Z = 55.366

DATUM RL 53.0

2% 2% -3% -3% -3% 2% 2% 1 in -4

FINISHED SURFACE	55.396	55.340	55.310	55.310	55.160	55.200	55.261	55.366	55.297	55.257	55.407	55.407	55.461	55.491	55.509	55.515	54.445
EXISTING SURFACE	54.859	54.772	54.725	54.721	54.720	54.706	54.641	54.530	54.455	54.440	54.439	54.434	54.346	54.298	54.270	54.260	54.145
OFFSET	-10.500	-7.680	-6.180	-6.030	-6.000	-5.550	-3.500	0.000	2.300	2.750	2.780	2.930	5.600	7.100	8.000	8.300	13.780

CHAINAGE 220.000

Centreline Data
X = 290489.962
Y = 6261116.732
Z = 56.139

DATUM RL 54.0

2% 2% -3% -3% -3% 2% 2% 1 in -4

FINISHED SURFACE	56.169	56.112	56.082	56.082	55.932	55.972	56.034	56.139	56.070	56.030	56.180	56.180	56.233	56.263	56.281	56.287	55.181
EXISTING SURFACE	56.093	55.995	55.938	55.932	55.931	55.914	55.828	55.681	55.601	55.584	55.583	55.577	55.474	55.410	55.370	55.367	55.181
OFFSET	-10.500	-7.680	-6.180	-6.030	-6.000	-5.550	-3.500	0.000	2.300	2.750	2.780	2.930	5.600	7.100	8.000	8.300	12.722

CHAINAGE 200.000

HORIZONTAL SCALE 1:100@A1
VERTICAL SCALE 1:100@A1

DRAWN: V. CHON DESIGNED: J. CARROLL JOB MANAGER: B. LAWRENCE VERIFIER:

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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
01	ISSUED FOR INFORMATION	AF		JC	22.12.22
02	ISSUED FOR DA APPROVAL	UM		JC	08.03.23

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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
CROSS SECTIONS - SHEET 02

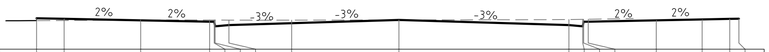
JOB NUMBER **SY222070**
DRAWING NUMBER **DAC5202**
REVISION **02**
DRAWING SHEET SIZE = A1

LEGEND

———	FINISHED SURFACE
— — —	EXISTING SURFACE

Centreline Data
X = 290308.652
Y = 6261184.412
Z = 48.953

DATUM RL 48.0

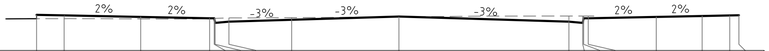


FINISHED SURFACE	49.010	48.992	48.942	48.897	48.897	48.747	48.787	48.848	48.953	48.787	48.747	48.897	48.941	48.971	48.989	48.995
EXISTING SURFACE	48.932	48.937	48.951	48.950	48.949	48.949	48.948	48.947	48.953	48.968	48.974	48.974	48.976			
OFFSET	-11.830	-10.930	-8.430	-6.180	-6.030	-6.000	-5.550	-3.500	0.000	5.550	6.000	6.030	6.180	8.400	9.900	10.800	11.100

CHAINAGE 405.220

Centreline Data
X = 290313.781
Y = 6261183.445
Z = 49.105

DATUM RL 48.0



FINISHED SURFACE	49.161	49.143	49.093	49.048	49.048	48.898	48.938	49.000	49.105	48.938	48.898	49.048	49.048	49.093	49.123	49.141	49.147
EXISTING SURFACE	49.034	49.036	49.028	49.041	49.046	49.046	49.060	49.069	49.095	49.121	49.121	49.121	49.121			
OFFSET	-11.830	-10.930	-8.430	-6.180	-6.030	-6.000	-5.550	-3.500	0.000	5.550	6.000	6.030	6.180	8.400	9.900	10.800	11.100

CHAINAGE 400.000

Centreline Data
X = 290333.435
Y = 6261179.740
Z = 49.685

DATUM RL 48.0

FINISHED SURFACE	49.742	49.724	49.674	49.629	49.629	49.479	49.519	49.580	49.685	49.519	49.479	49.629	49.673	49.703	49.721	49.727
EXISTING SURFACE	49.493	49.493	49.497	49.508	49.509	49.509	49.514	49.561	49.640	49.634	49.633					
OFFSET	-11.830	-10.930	-8.430	-6.180	-6.030	-6.000	-5.550	-3.500	0.000	5.550	6.000	6.030	6.180	8.400	9.900	10.800	11.100

CHAINAGE 380.000

HORIZONTAL SCALE 1:100@A1
VERTICAL SCALE 1:100@A1

DRAWN: V. CHON
DESIGNED: J. CARROLL
JOB MANAGER: B. LAWRENCE
VERIFIER:

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
01	ISSUED FOR INFORMATION	AF		JC	22.12.22
02	ISSUED FOR DA APPROVAL	UM		JC	08.03.23

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SCALE 1:100 @ A1 (0 1 2 3 4 5m)
SCALE 1:100 @ A1 (0 1 2 3 4 5m)

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE DEVELOPMENT APPLICATION
CROSS SECTIONS - SHEET 03

JOB NUMBER
SY222070

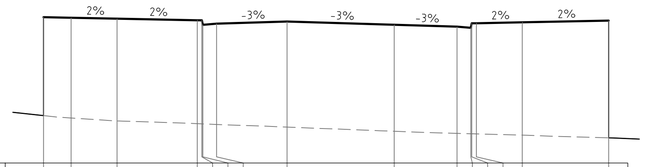
DRAWING NUMBER
DAC5203

REVISION
02

DRAWING SHEET SIZE = A1

LEGEND

———	FINISHED SURFACE
- - - -	EXISTING SURFACE

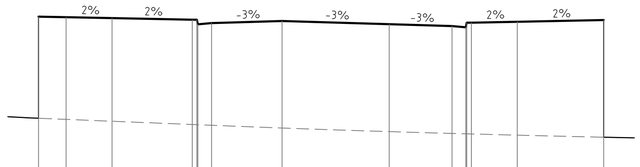


Centreline Data
X = 290457.215
Y = 6261010.543
Z = 60.618

DATUM RL 56.0

FINISHED SURFACE	60.760	60.742	60.712	60.659	60.659	60.509	60.549	60.618	60.513	60.452	60.412	60.562	60.562	60.592	60.648
EXISTING SURFACE	57.547	57.469	57.373	57.284	57.278	57.276	57.257	57.172	57.036	56.967	56.954	56.954	56.949	56.910	56.821
OFFSET	-7.950	-7.050	-5.550	-2.930	-2.780	-2.750	-2.300	0.000	3.500	5.550	6.000	6.030	6.180	7.680	10.500

CHAINAGE 60.000

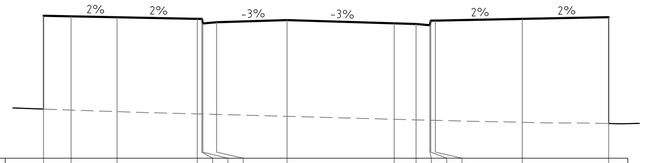


Centreline Data
X = 290475.947
Y = 6261003.534
Z = 62.163

DATUM RL 57.0

FINISHED SURFACE	62.304	62.286	62.256	62.204	62.204	62.054	62.094	62.163	62.058	61.996	61.956	62.106	62.106	62.136	62.192
EXISTING SURFACE	58.988	58.951	58.889	58.783	58.777	58.776	58.758	58.669	58.552	58.492	58.480	58.479	58.475	58.436	58.368
OFFSET	-7.950	-7.050	-5.550	-2.930	-2.780	-2.750	-2.300	0.000	3.500	5.550	6.000	6.030	6.180	7.680	10.500

CHAINAGE 40.000

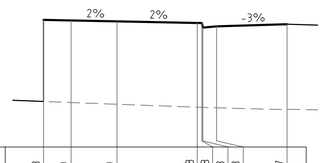


Centreline Data
X = 290494.679
Y = 6260996.526
Z = 63.509

DATUM RL 59.0

FINISHED SURFACE	63.650	63.632	63.602	63.550	63.550	63.400	63.440	63.509	63.404	63.382	63.342	63.492	63.492	63.549	63.606
EXISTING SURFACE	60.605	60.572	60.521	60.448	60.444	60.443	60.431	60.368	60.272	60.253	60.242	60.241	60.237	60.174	60.133
OFFSET	-7.950	-7.050	-5.550	-2.930	-2.780	-2.750	-2.300	0.000	3.500	4.213	4.663	4.693	4.843	7.680	10.500

CHAINAGE 20.000

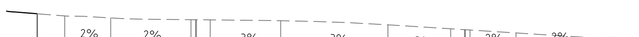


Centreline Data
X = 290503.977
Y = 6260993.047
Z = 64.007

DATUM RL 60.0

FINISHED SURFACE	64.148	64.130	64.100	64.048	64.048	63.898	63.938	64.007	
EXISTING SURFACE	61.485	61.451	61.395	61.300	61.295	61.294	61.279	61.225	
OFFSET	-7.950	-7.050	-5.550	-2.930	-2.780	-2.750	-2.300	0.000	

CHAINAGE 10.072

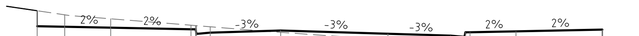


Centreline Data
X = 290379.253
Y = 6261021.204
Z = 54.920

DATUM RL 54.0

FINISHED SURFACE	55.062	55.044	55.014	54.961	54.961	54.811	54.851	54.920	54.815	54.754	54.714	54.864	54.864	54.894	54.950
EXISTING SURFACE	55.921	55.849	55.785	55.727	55.726	55.726	55.721	55.693	55.560	55.430	55.402	55.400	55.390	55.295	55.113
OFFSET	-7.950	-7.050	-5.550	-2.930	-2.780	-2.750	-2.300	0.000	3.500	5.550	6.000	6.030	6.180	7.680	10.500

CHAINAGE 140.000

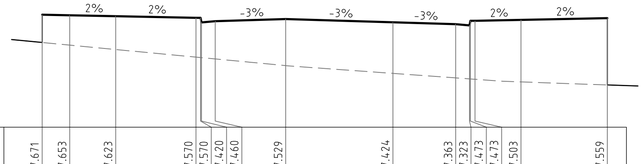


Centreline Data
X = 290399.231
Y = 6261022.130
Z = 56.009

DATUM RL 54.0

FINISHED SURFACE	56.151	56.133	56.103	56.050	56.050	55.900	55.940	56.009	55.904	55.843	55.803	55.953	55.953	55.983	56.039
EXISTING SURFACE	56.655	56.522	56.392	56.183	56.171	56.168	56.132	55.952	55.699	55.552	55.519	55.517	55.506	55.398	55.194
OFFSET	-7.950	-7.050	-5.550	-2.930	-2.780	-2.750	-2.300	0.000	3.500	5.550	6.000	6.030	6.180	7.680	10.500

CHAINAGE 120.000

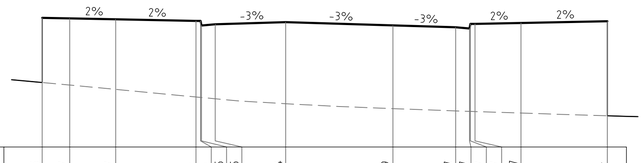


Centreline Data
X = 290419.211
Y = 6261022.583
Z = 57.529

DATUM RL 54.0

FINISHED SURFACE	57.671	57.653	57.623	57.570	57.570	57.420	57.460	57.529	57.424	57.363	57.323	57.473	57.473	57.503	57.559
EXISTING SURFACE	56.765	56.679	56.536	56.288	56.274	56.271	56.228	56.010	55.757	55.610	55.577	55.575	55.564	55.479	55.379
OFFSET	-7.950	-7.050	-5.550	-2.930	-2.780	-2.750	-2.300	0.000	3.500	5.550	6.000	6.030	6.180	7.680	10.500

CHAINAGE 100.000



Centreline Data
X = 290438.483
Y = 6261017.551
Z = 59.074

DATUM RL 55.0

FINISHED SURFACE	59.215	59.197	59.167	59.115	59.115	58.965	59.005	59.074	58.969	58.907	58.867	59.017	59.017	59.047	59.104
EXISTING SURFACE	57.104	57.022	56.880	56.632	56.618	56.615	56.574	56.413	56.252	56.177	56.162	56.161	56.156	56.108	56.018
OFFSET	-7.950	-7.050	-5.550	-2.930	-2.780	-2.750	-2.300	0.000	3.500	5.550	6.000	6.030	6.180	7.680	10.500

CHAINAGE 80.000

HORIZONTAL SCALE 1:100@A1
VERTICAL SCALE 1:100@A1

DRAWN: V. CHON
DESIGNED: J. CARROLL
JOB MANAGER: B. LAWRENCE
VERIFIER:

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
01	ISSUED FOR INFORMATION	AF		JC	22.12.22
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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

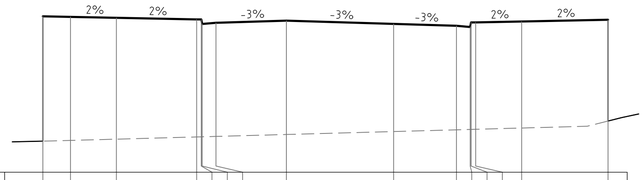
PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
CROSS SECTIONS - SHEET 04

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC5204**
REVISION **02**
DRAWING SHEET SIZE = A1

LEGEND

———	FINISHED SURFACE
- - - -	EXISTING SURFACE

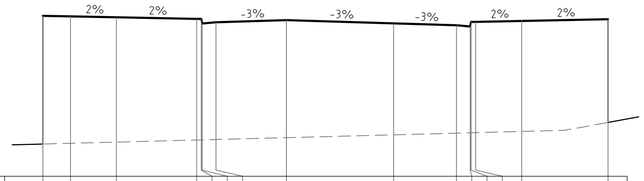


Centreline Data
X = 290342.933
Y = 6261082.683
Z = 53.946

DATUM RL 49.0

FINISHED SURFACE	54.088	54.070	54.040	53.987	53.987	53.837	53.877	53.946	53.841	53.780	53.740	53.890	53.890	53.920	53.976
EXISTING SURFACE	50.013	50.037	50.078	50.150	50.154	50.155	50.167	50.230	50.327	50.383	50.395	50.396	50.400	50.441	50.670
OFFSET	-7.950	-7.050	-5.550	-2.930	-2.780	-2.750	-2.300	0.000	3.500	5.550	6.000	6.030	6.180	7.680	10.500

CHAINAGE 240.000

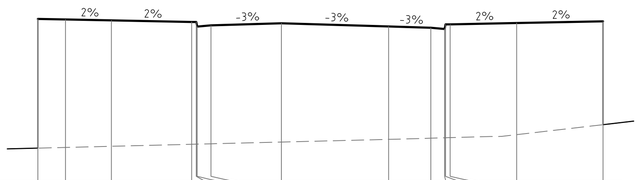


Centreline Data
X = 290339.798
Y = 6261062.930
Z = 54.095

DATUM RL 49.0

FINISHED SURFACE	54.237	54.219	54.189	54.136	54.136	53.986	54.026	54.095	53.990	53.929	53.889	54.039	54.039	54.069	54.125
EXISTING SURFACE	50.052	50.076	50.115	50.184	50.188	50.188	50.200	50.261	50.353	50.407	50.419	50.420	50.424	50.463	50.757
OFFSET	-7.950	-7.050	-5.550	-2.930	-2.780	-2.750	-2.300	0.000	3.500	5.550	6.000	6.030	6.180	7.680	10.500

CHAINAGE 220.000

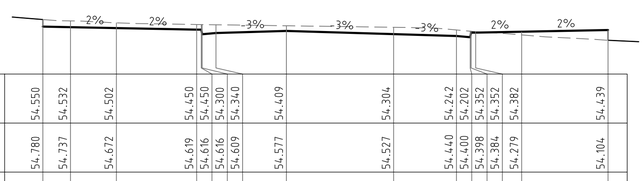


Centreline Data
X = 290336.663
Y = 6261043.177
Z = 54.196

DATUM RL 49.0

FINISHED SURFACE	54.337	54.319	54.289	54.237	54.237	54.087	54.127	54.196	54.091	54.049	54.009	54.159	54.159	54.203	54.259
EXISTING SURFACE	50.120	50.142	50.180	50.245	50.249	50.249	50.261	50.318	50.405	50.444	50.457	50.458	50.462	50.559	50.885
OFFSET	-7.950	-7.050	-5.550	-2.930	-2.780	-2.750	-2.300	0.000	3.500	4.878	5.328	5.358	5.508	7.680	10.500

CHAINAGE 200.000



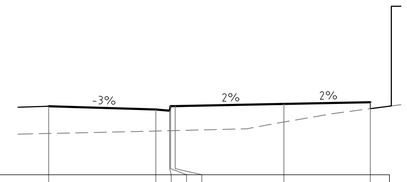
Centreline Data
X = 290359.274
Y = 6261020.279
Z = 54.409

DATUM RL 53.0

FINISHED SURFACE	54.550	54.532	54.502	54.450	54.450	54.300	54.340	54.409	54.304	54.242	54.202	54.352	54.352	54.382	54.439
EXISTING SURFACE	54.780	54.737	54.672	54.619	54.616	54.616	54.609	54.577	54.527	54.440	54.400	54.398	54.384	54.279	54.104
OFFSET	-7.950	-7.050	-5.550	-2.930	-2.780	-2.750	-2.300	0.000	3.500	5.550	6.000	6.030	6.180	7.680	10.500

CHAINAGE 160.000

HORIZONTAL SCALE 1:100@A1
VERTICAL SCALE 1:100@A1

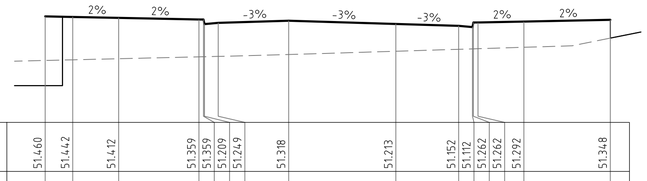


Centreline Data
X = 290358.617
Y = 6261146.475
Z = 51.236

DATUM RL 49.0

FINISHED SURFACE	51.236	51.131	51.091	51.241	51.241	51.312	51.368
EXISTING SURFACE	50.348	50.427	50.438	50.439	50.443	50.722	51.157
OFFSET	0.000	3.500	3.950	3.980	4.130	7.680	10.500

CHAINAGE 306.879

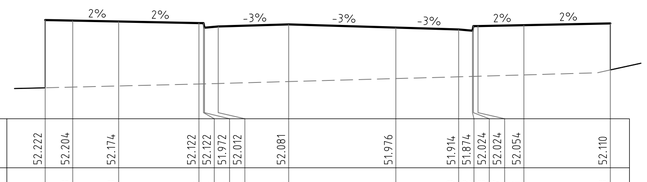


Centreline Data
X = 290353.979
Y = 6261141.441
Z = 51.318

DATUM RL 48.0

FINISHED SURFACE	51.460	51.442	51.412	51.359	51.359	51.209	51.249	51.318	51.213	51.152	51.112	51.262	51.262	51.292	51.348
EXISTING SURFACE	50.022	50.043	50.078	50.139	50.143	50.144	50.154	50.216	50.323	50.386	50.400	50.401	50.415	50.452	50.750
OFFSET	-7.950	-7.050	-5.550	-2.930	-2.780	-2.750	-2.300	0.000	3.500	5.550	6.000	6.030	6.180	7.680	10.500

CHAINAGE 300.000

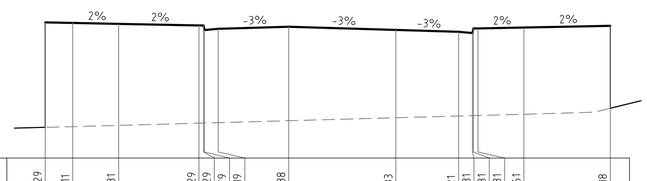


Centreline Data
X = 290349.204
Y = 6261122.188
Z = 52.081

DATUM RL 49.0

FINISHED SURFACE	52.222	52.204	52.174	52.122	52.122	51.972	52.012	52.081	51.976	51.914	51.874	52.024	52.024	52.054	52.110
EXISTING SURFACE	50.011	50.033	50.070	50.134	50.138	50.138	50.150	50.214	50.311	50.369	50.382	50.383	50.387	50.431	50.593
OFFSET	-7.950	-7.050	-5.550	-2.930	-2.780	-2.750	-2.300	0.000	3.500	5.550	6.000	6.030	6.180	7.680	10.500

CHAINAGE 280.000



Centreline Data
X = 290346.069
Y = 6261102.435
Z = 53.288

DATUM RL 49.0

FINISHED SURFACE	53.429	53.411	53.381	53.329	53.329	53.179	53.219	53.288	53.183	53.121	53.081	53.231	53.231	53.261	53.318
EXISTING SURFACE	50.004	50.026	50.067	50.139	50.143	50.144	50.157	50.220	50.316	50.373	50.385	50.386	50.390	50.431	50.626
OFFSET	-7.950	-7.050	-5.550	-2.930	-2.780	-2.750	-2.300	0.000	3.500	5.550	6.000	6.030	6.180	7.680	10.500

CHAINAGE 260.000

DRAWN: V. CHON
DESIGNED: J. CARROLL
JOB MANAGER: B. LAWRENCE
VERIFIER:

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
01	ISSUED FOR INFORMATION	AF		JC	22.12.22
02	ISSUED FOR DA APPROVAL	UM		JC	08.03.23

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SCALE 1:100 @ A1 — 0 1 2 3 4 5m
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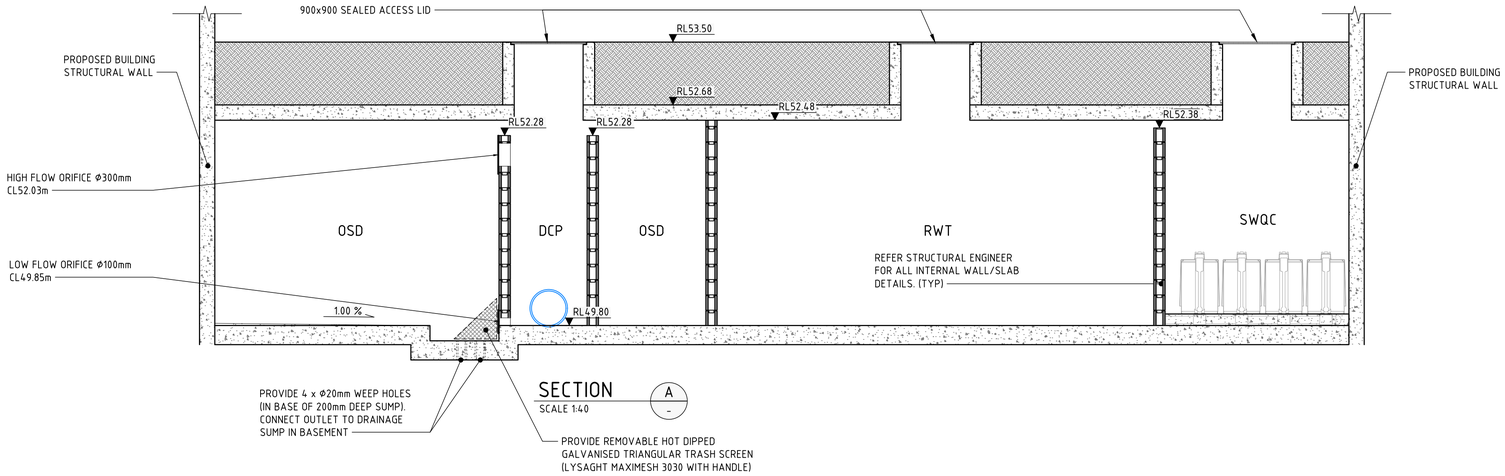
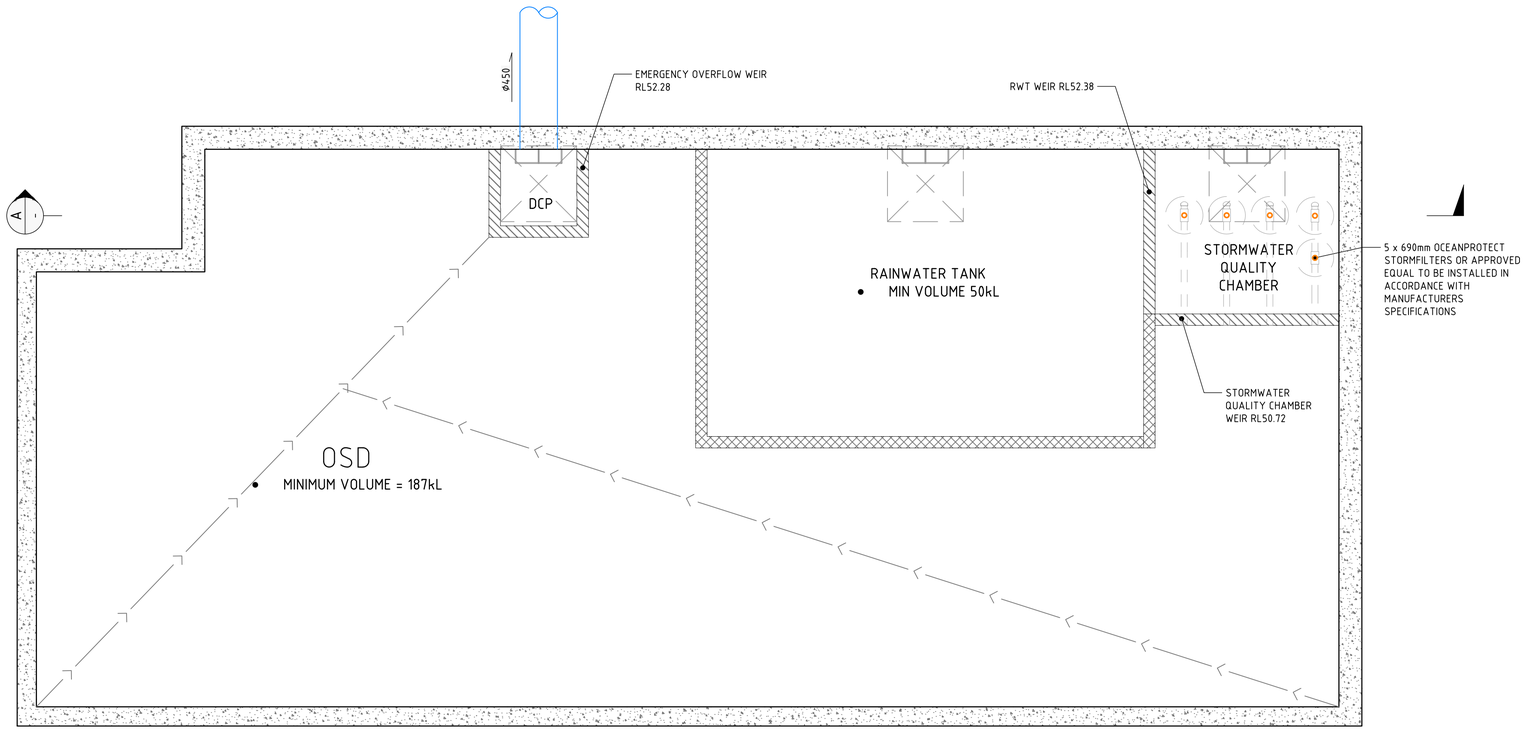
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
CROSS SECTIONS - SHEET 05

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC5205**
REVISION **02**
DRAWING SHEET SIZE = A1





OSD CW PLAN - INDICATIVE LAYOUT

DRAWN: V. CHON DESIGNED: J. CARROLL JOB MANAGER: B. LAWRENCE VERIFIER:

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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
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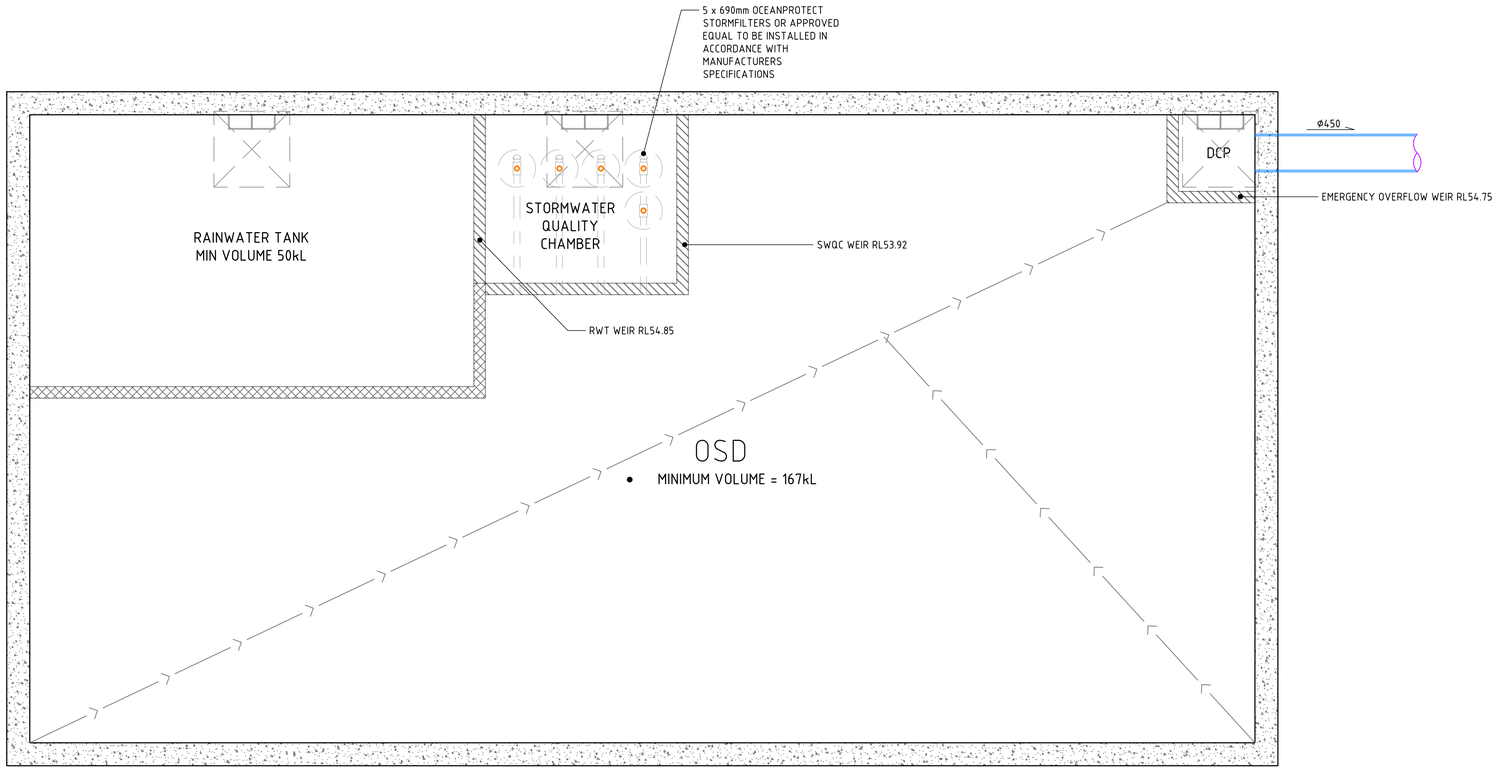
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

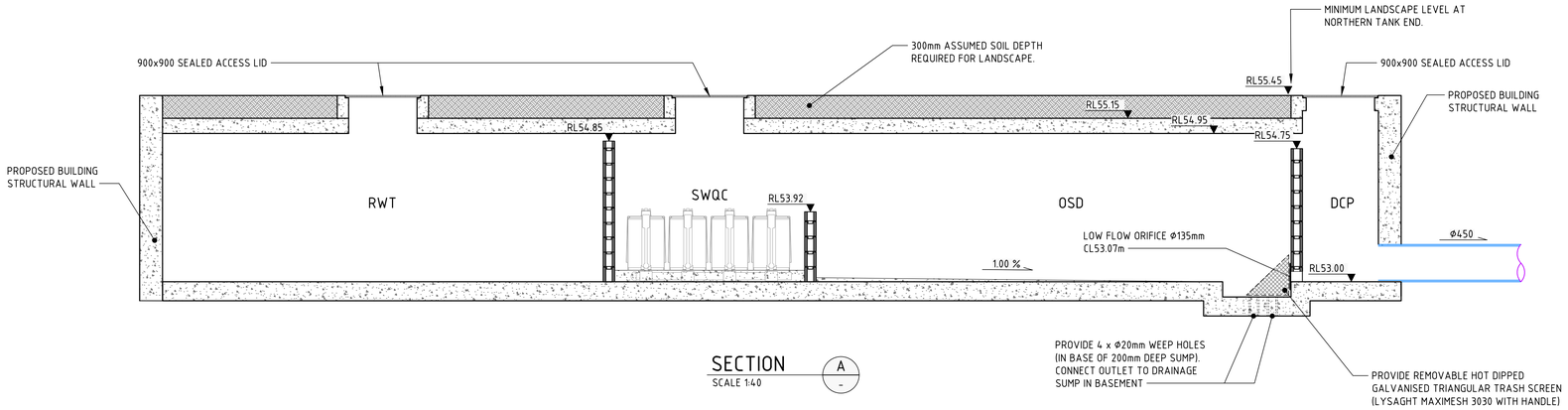
PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
DETAILS - SHEET 01

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC6101**
REVISION **02**
DRAWING SHEET SIZE = A1



OSD CE PLAN - INDICATIVE LAYOUT



SECTION A
SCALE 1:40

DRAWN: V. CHON DESIGNED: J. CARROLL JOB MANAGER: B. LAWRENCE VERIFIER:

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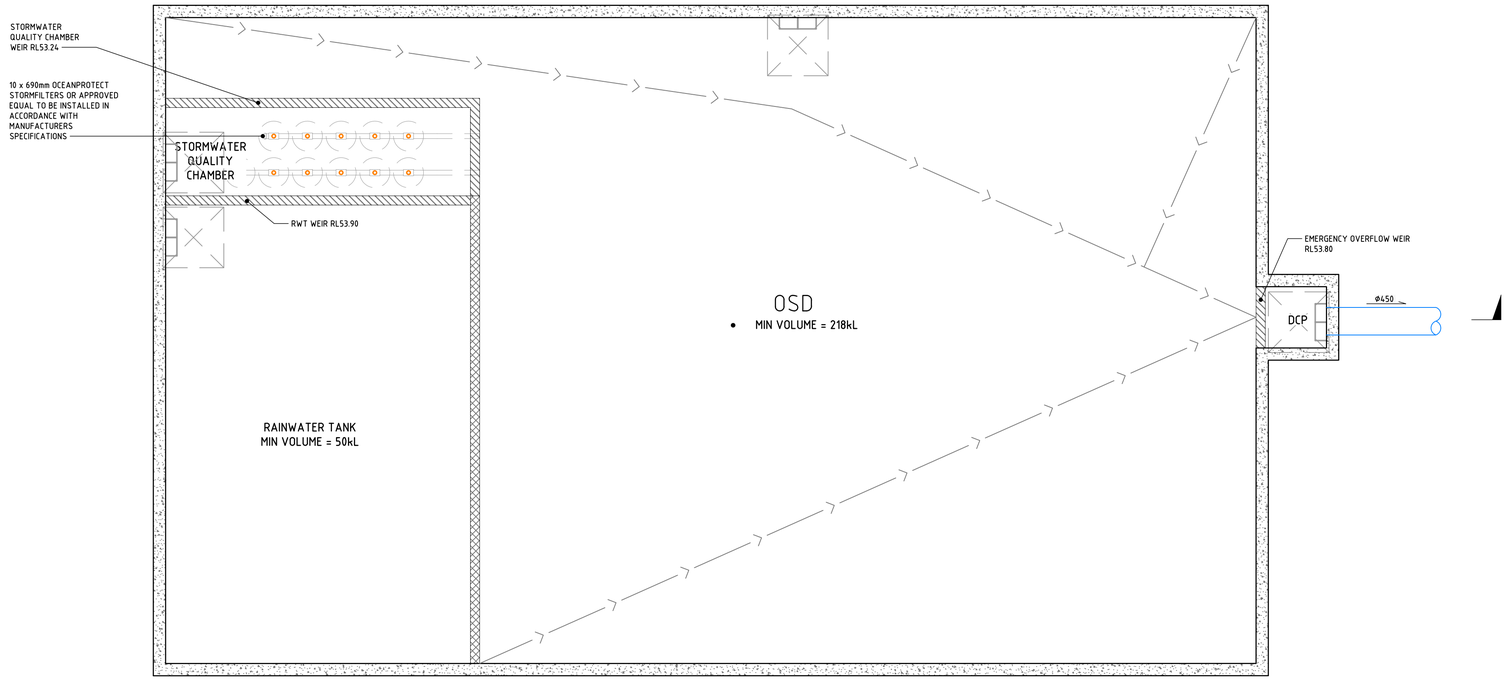
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

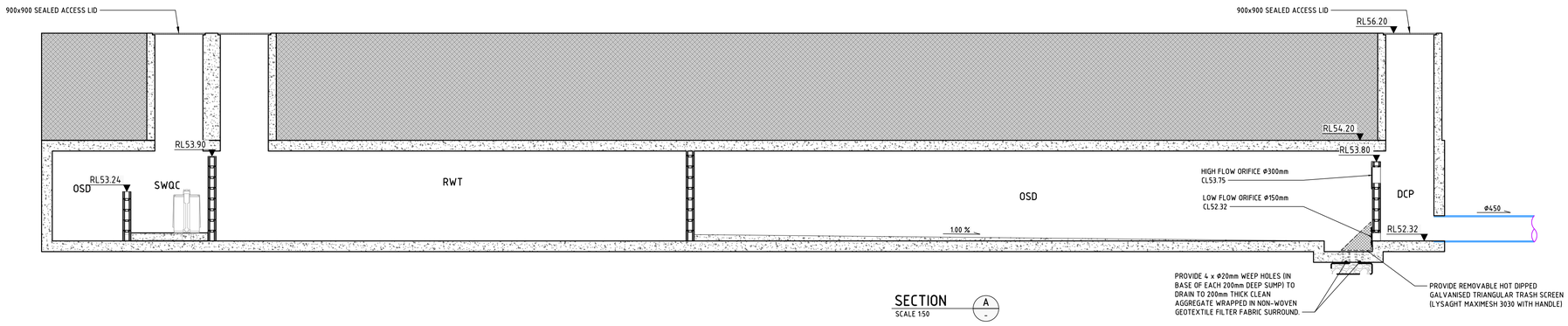
PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
DETAILS - SHEET 02

JOB NUMBER **SY222070**
DRAWING NUMBER **DAC6102** REVISION **02**
DRAWING SHEET SIZE = A1



OSD SOUTH PLAN - INDICATIVE LAYOUT



SECTION A
SCALE 1:50

DRAWN: V CHON
DESIGNED: J CARROLL
JOB MANAGER: B LAWRENCE
VERIFIER:

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Sydney
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Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
CADDENS CORNER
O'CONNELL STREET, CADDENS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION
DETAILS - SHEET 03

JOB NUMBER **SY222070**

DRAWING NUMBER **DAC6103** REVISION **01**

DRAWING SHEET SIZE = A1