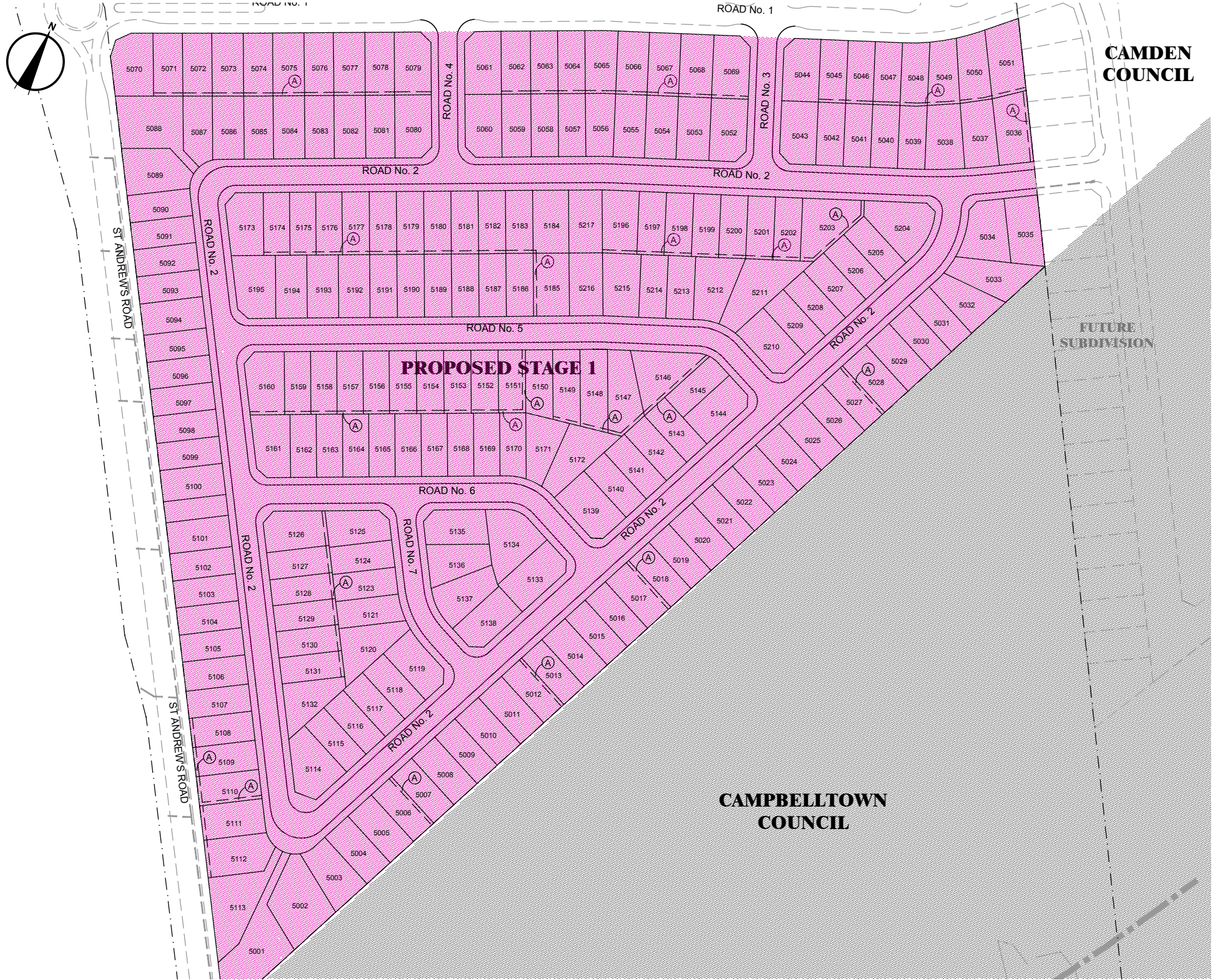
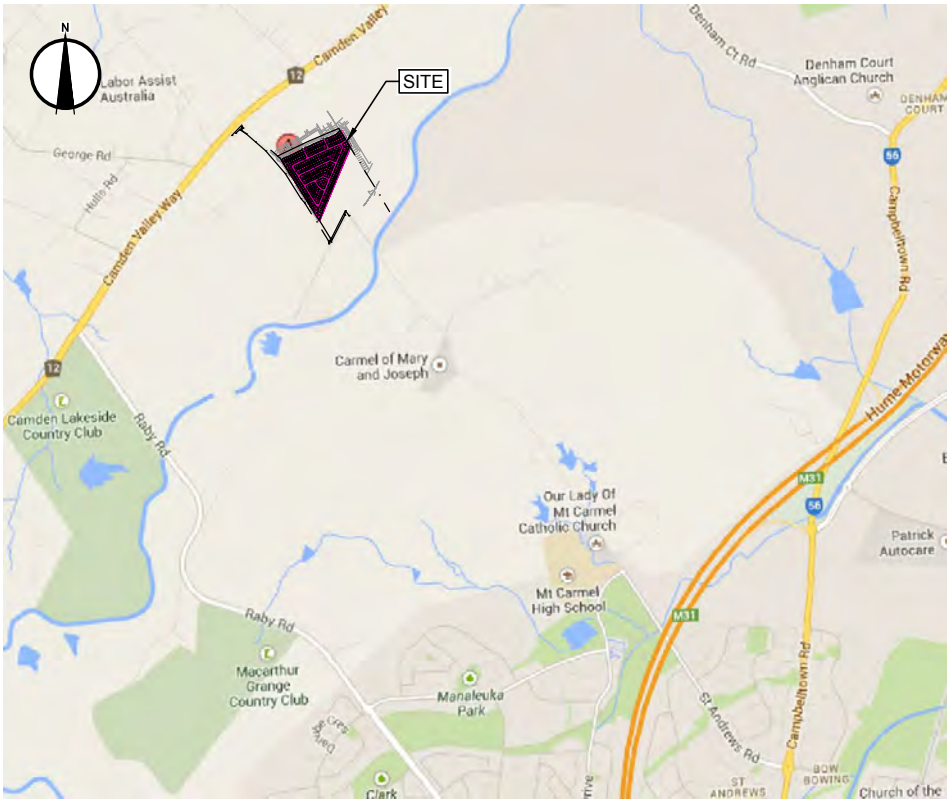


PROPOSED SUBDIVISION LEPPINGTON - STAGE 1



SITE PLAN
SCALE 1:1250



LOCALITY PLAN
SCALE: NTS

SURVEY CONTROL:				
POINT No.	EASTING	NORTHING	REDUCED LEVEL	REMARKS
1	290122.371	6228043.755	85.590	SSM 171456
2	290702.832	6228291.449	92.450	SSM 160359
3	290548.151	6228040.096	88.199	SSM 168937
6	291666.463	6227325.838	111.094	SSM103826
7	291078.630	6228621.485	111.053	SSM159634
8	292282.682	6227703.434	140.7030	PM53547

NOTE: CO-ORDINATES ARE MGA (GROUND)

LEGEND:	
	STAGE 1
	CAMPBELLTOWN CITY COUNCIL AREA
	SURVEY CONTROL MARK

EASEMENT INFORMATION:	
(A)	EASEMENT FOR DRAINAGE 1.5m WIDE

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PLOT DATE 24 Feb 2015
TIME 16:31:32

REVISION	DATE	DES/DT	WVR	APPD
C LAYOUT REVISED. STAGES COMBINED.	24/02/15	LR/PX	N/A	PP
B ADD RETAINING WALL HEIGHTS	10/10/14	MS	-	JH
A INITIAL ISSUE TO COUNCIL FOR DEVELOPMENT APPLICATION	26/09/14	LR/MS	-	PP

Principal
CORNISH

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Project Manager
P. PARFENOW
Designed
J. HYNES
Drawn
M. NEILSON
Checked
P. PARFENOW
Authorised
P. G. McNAMARA
Date
SEPTEMBER 2014

Scale @ A1
0 12.5 25 50
1:1250

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LEPPINGTON
STAGE 1
CAMDEN COUNCIL
COVER SHEET - SITE PLAN & LOCALITY PLAN
Drawing No. 77831.00.DA001
Dev. App. No.
Sheet No. 1 of 29
Rev C
Subject to Approval

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PLOT DATE
25 Feb 2015
TIME
14:28:51

SHEET SCHEDULE:

REV	SHEET	DRAWING	DESCRIPTION
C	1	77831.00.DA001	COVER SHEET - SITE PLAN & LOCALITY PLAN
D	2	77831.00.DA002	SHEET SCHEDULE & NOTES
D	3	77831.00.DA101	SITE REGRADING PLAN SHEET 1 OF 6
D	4	77831.00.DA102	SITE REGRADING PLAN SHEET 2 OF 6
D	5	77831.00.DA103	SITE REGRADING PLAN SHEET 3 OF 6
D	6	77831.00.DA104	SITE REGRADING PLAN SHEET 4 OF 6
D	7	77831.00.DA105	SITE REGRADING PLAN SHEET 5 OF 6
D	8	77831.00.DA106	SITE REGRADING PLAN SHEET 6 OF 6
C	9	77831.00.DA201	TYPICAL CROSS SECTIONS 16m WIDE LOCAL ROAD
D	10	77831.00.DA202	TYPICAL CROSS SECTIONS 20m WIDE COLLECTOR ROAD
C	11	77831.00.DA211	LONGITUDINAL SECTIONS ROAD No. 1
C	12	77831.00.DA212	LONGITUDINAL SECTIONS ROAD No. 2 - SHEET 1 OF 2
C	13	77831.00.DA213	LONGITUDINAL SECTIONS ROAD No. 2 - SHEET 2 OF 2
C	14	77831.00.DA214	LONGITUDINAL SECTIONS ROAD No. 3, ROAD No. 4 & ROAD No. 5
C	15	77831.00.DA215	LONGITUDINAL SECTIONS ROAD No. 6 & ROAD No. 7
C	16	77831.00.DA216	LONGITUDINAL SECTIONS ST ANDREWS ROAD
C	17	77831.00.DA501	CUT & FILL PLAN
C	18	77831.00.DA601	CONCEPT DRAINAGE PLAN SHEET 1 OF 6
C	19	77831.00.DA602	CONCEPT DRAINAGE PLAN SHEET 2 OF 6
C	20	77831.00.DA603	CONCEPT DRAINAGE PLAN SHEET 3 OF 6
C	21	77831.00.DA604	CONCEPT DRAINAGE PLAN SHEET 4 OF 6
C	22	77831.00.DA605	CONCEPT DRAINAGE PLAN SHEET 5 OF 6
C	23	77831.00.DA606	CONCEPT DRAINAGE PLAN SHEET 6 OF 6
C	24	77831.00.DA611	CONCEPT CATCHMENT PLAN
D	25	77831.00.DA701	SOIL & WATER MANAGEMENT PLAN
C	26	77831.00.DA711	SOIL & WATER MANAGEMENT DETAILS & NOTES
C	27	77831.00.DA811	LINE MARKING & SIGN POSTING PLAN SHEET 1 OF 2
C	28	77831.00.DA812	LINE MARKING & SIGN POSTING PLAN SHEET 2 OF 2
C	29	77831.00.DA901	DEMOLITION PLAN

GENERAL NOTES:

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH CAMDEN COUNCIL'S SPECIFICATIONS AND TO THE REQUIREMENTS OF COUNCIL'S ENGINEER.
- INSPECTIONS BY THE CAMDEN COUNCIL'S ENGINEER SHALL BE CARRIED OUT AT THE FOLLOWING STAGES:
 - PRIOR TO INSTALLATION OF EROSION AND SEDIMENT CONTROL STRUCTURES
 - FINAL INSPECTION AFTER ALL WORKS ARE COMPLETED AND 'WORK AS EXECUTED' PLANS HAVE BEEN SUBMITTED TO COUNCIL
- NO TREES TO BE REMOVED UNLESS APPROVAL IS GRANTED BY COUNCIL'S LANDSCAPE COMPLIANCE OFFICER.
- MAKE SMOOTH JUNCTIONS WITH EXISTING WORKS.
- NO WORK TO BE CARRIED OUT ON COUNCIL PROPERTY OR ADJOINING PROPERTIES WITHOUT THE WRITTEN PERMISSION FROM THE OWNER/S.
- VEHICULAR ACCESS AND ALL SERVICES TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.
- ALL RUBBISH, BUILDINGS, SHEDS AND FENCES TO BE REMOVED TO SATISFACTION OF COUNCIL'S ENGINEER.
- THE CONTRACTOR SHALL OBTAIN ALL LEVELS FROM ESTABLISHED BENCH MARKS ONLY.
- PERMANENT SURVEY CO-ORDINATION MARKS MUST BE PLACED WITHIN THE SUBDIVISION IN ACCORDANCE WITH THE SURVEYORS ACT AND REGULATIONS.
- PLACE AND LEVEL NEW S.S.M.'S TO DEPARTMENT OF LAND & WATER CONSERVATION'S (SURVEY BRANCH) REQUIREMENT IN POSITION AS DIRECTED BY THE CONSULTING SURVEYOR AND SHOW ON WORKS-AS-EXECUTED PLANS.
- IF REQUIRED - FURTHER INFORMATION MAY BE OBTAINED FROM SMEC URBAN.
- THE SITE MUST BE ENCLOSED WITH A SUITABLE TEMPORARY 'A' CLASS TYPE HOARDING OR SECURITY FENCE OF A TYPE APPROVED BY THE CONSENT AUTHORITY. SUCH HOARDING MUST NOT ENCROACH UPON THE ROAD RESERVE OR OTHER PRIVATE LAND WITHOUT THE WRITTEN CONCURRENCE OF THE AFFECTED PROPERTY OWNER. IF IT IS PROPOSED TO LOCATE SUCH A HOARDING WITHIN ANY PROPERTY OWNED/CONTROLLED BY CAMDEN COUNCIL, A PUBLIC ROAD ACTIVITY APPLICATION MUST BE SUBMITTED TO AND APPROVED BY COUNCIL, PRIOR TO THE HOARDING BEING ERECTED.
- CONSTRUCTION ACCESS FROM PUBLIC PLACES IE. ROADS, RESERVES, PARKS, WALKWAYS AND THE LIKE, OTHER THAN THAT APPROVED BY THIS DEVELOPMENT CONSENT WILL NOT BE PERMITTED WITHOUT THE PRIOR CONSENT OF CAMDEN COUNCIL.
- PRIOR TO THE COMMENCEMENT OF ANY WORK WITHIN THE SITE A SIGN (MINIMUM SIZE OF 300mm X 400mm) MUST BE INSTALLED WITHIN THE SITE ADVISING OF THE FOLLOWING:
 - FULL DETAILS OF THE PCA
 - FULL DETAILS OF THE CONSTRUCTION CERTIFICATE
 - FULL DETAILS OF DEVELOPMENT CONSENT, AND
 - FULL DETAILS OF THE BUILDER/CONTRACTOR THE SIGN MUST BE LOCATED WITHIN THE SITE AND CLEARLY VISIBLE AND LEGIBLE FROM THE ROAD FOOTWAY, AND MUST BE DISPLAYED FOR THE DURATION OF THE CONSTRUCTION WORKS.

EARTHWORKS NOTES:

- EARTHWORKS ARE TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL. UNSUITABLE MATERIALS ARE TO BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING. THE CONTRACTOR IS TO ARRANGE AND MAKE AVAILABLE COMPACTION TESTING RESULTS FOR ALL AREAS THAT CONTAIN FILL IN EXCESS OF 200mm.
- COMPACTION OF EARTHWORKS SHALL CONTINUE UNTIL A DRY DENSITY RATIO OF 95% FOR SITE FILLING AND 100% FOR ROAD PAVEMENT SUBGRADES HAS BEEN ACHIEVED IN ACCORDANCE WITH TEST METHOD AS1289 5.3.1 OR AS1289 5.1.1. THE CONTROL TESTING OF EARTHWORKS SHALL BE IN ACCORDANCE WITH THE GUIDELINES IN AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'. WHERE IT IS PROPOSED TO USE TEST METHOD AS1289 5.8.1 TO DETERMINE THE FIELD DENSITY, A SAND REPLACEMENT METHOD SHALL BE USED TO CONFIRM THE RESULTS.
- THE SUITABLE QUALIFIED GEOTECHNICAL ENGINEER, SHALL HAVE A LEVEL 1 RESPONSIBILITY FOR ALL FILLING AS DEFINED IN APPENDIX B AS3798 GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS', AND AT THE END OF THE WORKS SHALL CONFIRM THE EARTHWORKS COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND DRAWINGS BY WRITTEN NOTIFICATION.
- IN AREAS TO BE FILLED WHERE THE SLOPE OF THE NATURAL SURFACE EXCEEDS 1(V):4(H), BENCHES ARE TO BE CUT TO PREVENT SLIPPING OF THE PLACED FILL MATERIAL AS REQUIRED BY THE COUNCIL.
- ALL BATTERS ARE TO BE SCARIFIED TO A DEPTH OF 50mm TO ASSIST WITH ADHESION OF TOP SOIL TO BATTER FACE.
- PROVIDE MINIMUM 150mm AND MAXIMUM 300mm TOPSOIL WITH ON FOOTPATHS, FILLED AREAS AND ALL OTHER AREAS DISTURBED DURING CONSTRUCTION. TOPSOILED AREAS TO BE STABILISED WITH APPROVED VEGETATION A MAXIMUM OF 14 DAYS AFTER TOPSOILING AND ARE TO BE WATERED TO ENSURE GERMINATION.
- THE CONTRACTOR SHALL CONTROL SEDIMENTATION, EROSION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION' PRODUCED BY LANDCOM.
- A MINIMUM 1 METRE WIDE, CONTINUOUS STRIP OF COUCHGRASS SHALL BE PLACED BEHIND THE BACK OF ALL KERBS AND OTHER CONCRETE STRUCTURES IMMEDIATELY AFTER THE COMPLETION OF THE FOOTPATH GRADING OR OTHER ELEMENTS AS APPLICABLE, AND SHALL BE MAINTAINED AND REPLACED AS REQUIRED DURING THE CONSTRUCTION MAINTENANCE PERIOD AND MAINTENANCE PERIODS.

SERVICES NOTES:

- SERVICE CONDUITS TO BE PLACED AS DIRECTED BY ENDEAVOUR, NBN CO. AND AS REQUIRED BY SYDNEY WATER CORPORATION.
- SERVICES SHOWN HEREON HAVE BEEN LOCATED WHERE POSSIBLE BY FIELD SURVEY. IF NOT ABLE TO BE LOCATED SERVICES HAVE BEEN PLOTTED FROM THE RECORDS OF RELEVANT AUTHORITIES WHERE AVAILABLE AND HAVE BEEN NOTED ACCORDINGLY ON THIS PLAN. WHERE SUCH RECORDS EITHER DO NOT EXIST OR ARE INADEQUATE A NOTATION HAS BEEN MADE HEREON. PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE, THE RELEVANT AUTHORITY SHOULD BE CONTACTED FOR POSSIBLE LOCATION OF FURTHER UNDERGROUND SERVICES & DETAILED LOCATIONS OF ALL SERVICES.
- PUBLIC UTILITY SERVICES ARE TO BE ADJUSTED AS NECESSARY.
- PROPOSED SERVICE CROSSING TO BE THRUST BORED UNDER EXISTING ROAD PAVEMENT. CONTRACTOR TO REPAIR ANY DAMAGE TO EXISTING SURFACE.
- ALL SYDNEY WATER HYDRANTS ARE TO BE CLEARLY IDENTIFIABLE BY APPROPRIATE KERB MARKINGS AND BLUE COLOURED RAISED REFLECTIVE PAVEMENT MARKERS PLACED AT THE CENTRELINE OF THE ROAD OPPOSITE THE HYDRANT. THESE PAVEMENT MARKERS ARE TO BE REINSTATED AFTER PLACEMENT OF THE FINAL LAYER OF ASPHALTIC CONCRETE AND PRIOR TO THE RELEASE OF THE ROAD SURFACING BOND.
- CONTRACTOR TO INSTALL ELECTRICAL, NBN AND GAS DUCT CROSSINGS TO RELEVANT AUTHORITY STANDARDS. CONTRACTOR TO SURVEY & CERTIFY COVER TO EACH ROAD DUCT CROSSING AS GIVEN ON THE APPROVED ELECTRICAL PLAN. LEVELS & CERTIFICATION TO BE PROVIDED TO SMEC URBAN FOR CONFORMATION AND SUBMISSION OF WAE LEVELS TO ENDEAVOUR ENERGY FOR CERTIFICATION. ALTERNATIVELY, CONTACT SMEC URBAN ONE DAY PRIOR TO TRENCH BEING OPEN AND/OR BACKFILLED FOR CERTIFICATION.

ROADWORKS NOTES:

- SUBGRADES AND SUB BASES ARE TO BE COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
- SUBSOIL DRAINS TO BE PROVIDED ON BOTH SIDES OF ROADS (EXCEPT WHERE THERE IS STORMWATER DRAINAGE).
- 150 x 50 H.D. GALVANISED STEEL KERB OUTLETS TO BE PLACED IN ALL KERB TYPES ON LOW SIDE OF LOTS. PROVIDE SUITABLE ADAPTOR TO ALL LOW CONNECTION OF 90mm DIAMETER STORMWATER PIPE.
- LIPLESS PERAMBULATOR CROSSINGS ARE TO BE PROVIDED IN ALL KERB RETURNS AND WHERE REQUIRED BY COUNCIL.
- SERVICE CONDUITS TO BE PLACED AS DIRECTED BY ALL PUBLIC UTILITY AUTHORITIES INCLUDING ENDEAVOUR ENERGY, NBN CO. AND SYDNEY WATER
- PROPOSED UTILITIES AND SERVICES CROSSING EXISTING ROADS SHALL BE PROVIDED FOR USING A TRENCHLESS TECHNIQUE SO AS NOT TO DAMAGE THE EXISTING SURFACE. ALL SERVICE CONDUITS UNDER ROADS MUST BE LAID TO A MINIMUM DEPTH OF 750mm.
- CONCRETE FOOTPATH CONSTRUCTION IS TO BE BONDED WITH COUNCIL PENDING COMPLETION OF UTILITY/SERVICES AND SURROUNDING DWELLINGS.
- ALL TEMPORARY ROADS MUST BE TEMPORARILY SEALED WITH A SINGLE COAT FLUSH SEAL.
- ALL PERMANENT ROADS MUST BE SEALED WITH A SINGLE COAT FLUSH SEAL AND 50mm OF AC TO BE APPLIED IN TWO 25mm THICK LAYERS. THE FINAL AC LAYER IS TO BE AC 10 AND IS TO BE BONDED AND PLACED FOLLOWING APPROVAL FROM COUNCIL.
- SIGNPOSTING AND LINE MARKING SHALL CONFORM TO AS1742.2 'TRAFFIC CONTROL DEVICES FOR GENERAL USE'. RAISED RETRO-REFLECTIVE PAVEMENT MARKERS TO CONFORM TO AS1 906 'RETRO-REFLECTIVE MATERIALS AND DEVICES FOR ROAD TRAFFIC CONTROL PURPOSES'. ALL APRONS AND KERB FACE ON CENTRAL ISLANDS OF ROUNDABOUTS AND ALL OTHER ISLANDS TO BE DELINEATED BY REFLECTIVE WHITE MARKING. INSTALLATION SHALL OCCUR IN ACCORDANCE WITH THE PLAN APPROVED BY THE LOCAL TRAFFIC COMMITTEE.
- ALL LOT AND HOUSE NUMBERS MUST BE STENCILED ON KERB FACE.
- STREET SIGNS TO COUNCIL STANDARD MUST BE INSTALLED BY THE CONTRACTOR.

STORMWATER NOTES:

- ALL PIPES TO BE SPIGOT AND SOCKET, RUBBER RING JOINTED.
- ALL LONGITUDINAL PIPELINES IN ROADS MUST BE LOCATED UNDER KERB AND GUTTER AND BE BACKFILLED WITH APPROVED GRANULAR MATERIAL UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- DRAINAGE LINES MUST BE BACKFILLED WITH APPROVED GRANULAR MATERIAL IN TRAFFICABLE AREAS. THREE (3) METRES OF SUBSOIL DRAINAGE WRAPPED IN GEOTEXTILE STOCKING MUST BE PROVIDED TO ALL DOWNSTREAM PITS.
- ALL GULLY PITS TO COUNCIL'S STANDARD AND LINTELS CENTRALLY PLACED AT SAG PITS.
- ALL PITS MUST BE BENCHED AND STREAMLINED. PROVIDE SL72 REINFORCEMENT AND GALVANISED STEP IRONS IN ALL PITS OVER 1.2 METRES DEEP AS MEASURED FROM THE TOP OF GRATE TO THE INVERT OF THE PIT.
- CONCRETE IS TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 32MPa AT 28-DAYS UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- ALL INTERALLOTMENT DRAINAGE MUST HAVE A MINIMUM PIPE DIAMETER OF 150 mm AND A MINIMUM GRADE OF 1% UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- ALL INTERALLOTMENT DRAINAGE LINES MUST BE LAID CENTRALLY WITHIN DRAINAGE EASEMENTS. INSPECTION PITS MUST BE PROVIDED AT ALL CHANGES OF GRADE AND DIRECTION.
- INTERALLOTMENT DRAINAGE LINES MUST BE INSTALLED AFTER SYDNEY WATER SEWERAGE LINES HAVE BEEN INSTALLED WHERE SEWER IS PROPOSED ADJACENT TO INTERALLOTMENT DRAINAGE LINES.
- 1% AEP OVERLAND FLOW. PATHS MUST BE FORMED AND SHOWN ON 'WORKS AS EXECUTED' DRAWINGS.
- ALL PLANS (BOTH DESIGN AND WAE) ARE TO CLEARLY DELINEATE THE EXTENT/LOCATION OF FLOOD LINES INCLUDING THE 5% AEP, 1% AEP AND PMF.
- ADEQUATE PROVISION IS TO BE MADE TO PREVENT SCOURING AND SEDIMENTATION FOR ALL DRAINAGE WORKS IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.
- PIT LINTELS ARE TO BE STENCILED WITH APPLICABLE DISTINCTION STENCIL AVAILABLE FROM COUNCIL.
- CATCHDRAINS MUST BE CONSTRUCTED AS REQUIRED BY THE APPROVED PLANS OR THE PRINCIPAL CERTIFYING AUTHORITY.
- SOIL AND WATER MANAGEMENT PLANS ARE TO BE PREPARED FOR ALL DISTURBED SITES AND ADHERED TO AT ALL TIMES DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.

GEOTECHNICAL NOTES:

- THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY, AND TO THE SATISFACTION OF COUNCIL PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND DURING CONSTRUCTION. MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL IS TO BE UNDERTAKEN ON A REGULAR BASIS & AS PER COUNCIL'S DIRECTION.
- TESTS SHALL BE UNDERTAKEN ON ANY PROPOSED FILL MATERIALS TO ENSURE THAT THE DO NOT HAVE A HIGH DISPERSION POTENTIAL AS DEFINED BY THE EMERSON CRUMB/DISPERSION TESTS (AS1289 C8-1980).
- ALL FILL SHALL BE COMPACTED TO NOT LESS THAN 95% OF STANDARD MAXIMUM DRY DENSITY AT -3% TO +3% OF STANDARD OPTIMUM MOISTURE CONTENT (MAXIMUM FILL HORIZONS OF 150 mm TO 200mm). ALL AREAS WHICH HAVE TEST RESULTS LESS THAN 98% STANDARD SHOULD BE REWORKED AND RETESTED TO ENSURE COMPLIANCE. IN ACCORDANCE WITH A.S.A. 1289 TESTS 12 AND 13.
- ALL FILL AREAS TO BE COMPACTED AT 100% OF STANDARD AND TESTED IN ACCORDANCE WITH CAMDEN COUNCILS DRAFT ENGINEERING CONSTRUCTION SPECIFICATION - MAY 2003, ASSOCIATED GUIDELINES AND THE MOST CURRENT EDITION AS 1289; SUCH TESTING TO BE UNDERTAKEN BY A NATA REGISTERED LABORATORY.
- ALL FILL AREAS TO BE SURVEYED AT STRIPPING AND FINAL STAGES AND LEVELS SHOWN ON PLAN SHADED, (TOGETHER WITH CROSS SECTIONS AT MAXIMUM 20m C/C) AT WORKS-AS-EXECUTED STAGE AND CONTROLLED BY A REGISTERED SURVEYOR. 88B INSTRUMENT REQUIRED FOR ALL LOTS FILLED WITHIN THE BUILDING LINE.
- ALL EARTHWORKS SHALL BE CONTROLLED AND CERTIFIED BY A N.A.T.A. REGISTERED LABORATORY. TWO COLLATED COPIES OF ALL TEST CERTIFICATES, ACCOMPANIED BY AN OVERALL SITE PLAN, CLEARLY INDICATING THE LOCATION OF EACH TEST AND FILL AREAS ETC., AND THE LABORATORY CERTIFICATE COVERING THE WHOLE OF THE AREA TESTED ARE TO BE FORWARDED TO COUNCIL UPON COMPLETION. TESTING IS TO BE TO LEVEL 1 AS3798 APPENDIX B2(A).
- ALL RESIDENTIAL LOTS SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH THE LATEST EDITION OF THE GUIDELINES IN THE AUSTRALIAN STANDARD FOR RESIDENTIAL SLABS AND FOOTINGS AS 2870. PROVIDE TWO COPIES OF REPORT TO COUNCIL.



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Project Manager
P. PARFENOW
Designed
J. HYNES
Drawn
M. NEILSON
Checked
P. PARFENOW
Authorised
P. G. McNAMARA
Date
SEPTEMBER 2014

Scale @ A1

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LEPPINGTON

STAGE 1
CAMDEN COUNCIL
SHEET SCHEDULE & NOTES

Drawing No. 77831.00.DA002
Dev. App. No.
Sheet No. 2 of 29

Rev D

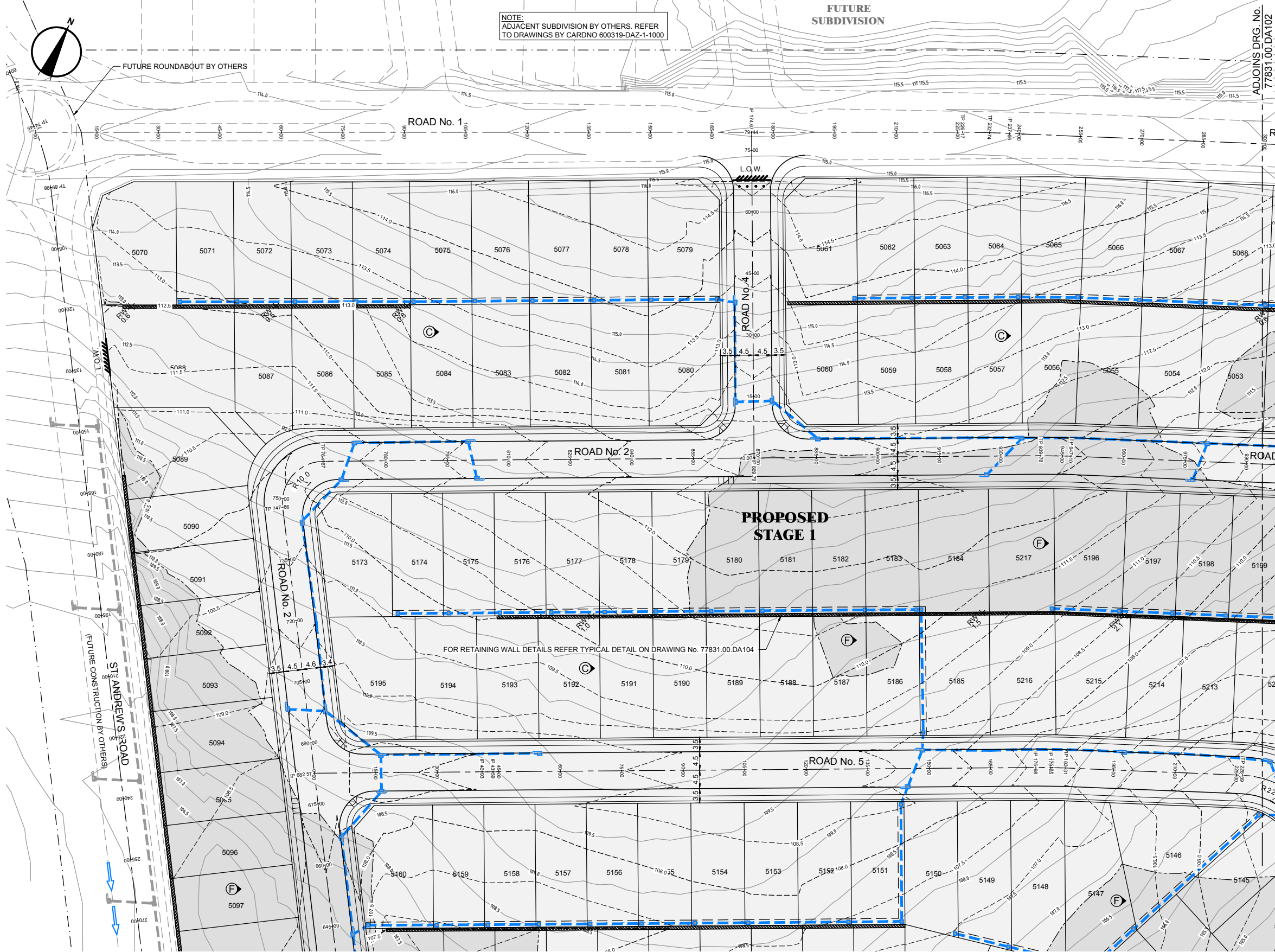
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PLOT DATE 25 Feb 2015

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SITE REGRADING PLAN - STAGE 1 - SHEET 1 OF 6

SCALE 1:500

REVISION	DATE	DES/DET	WVR	APPD
D	25/02/15	MN	N/A	PP
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B	10/10/14	MS	-	JH
A	26/09/14	LR/MS	-	PP

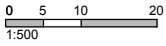


Principal
CORNISH

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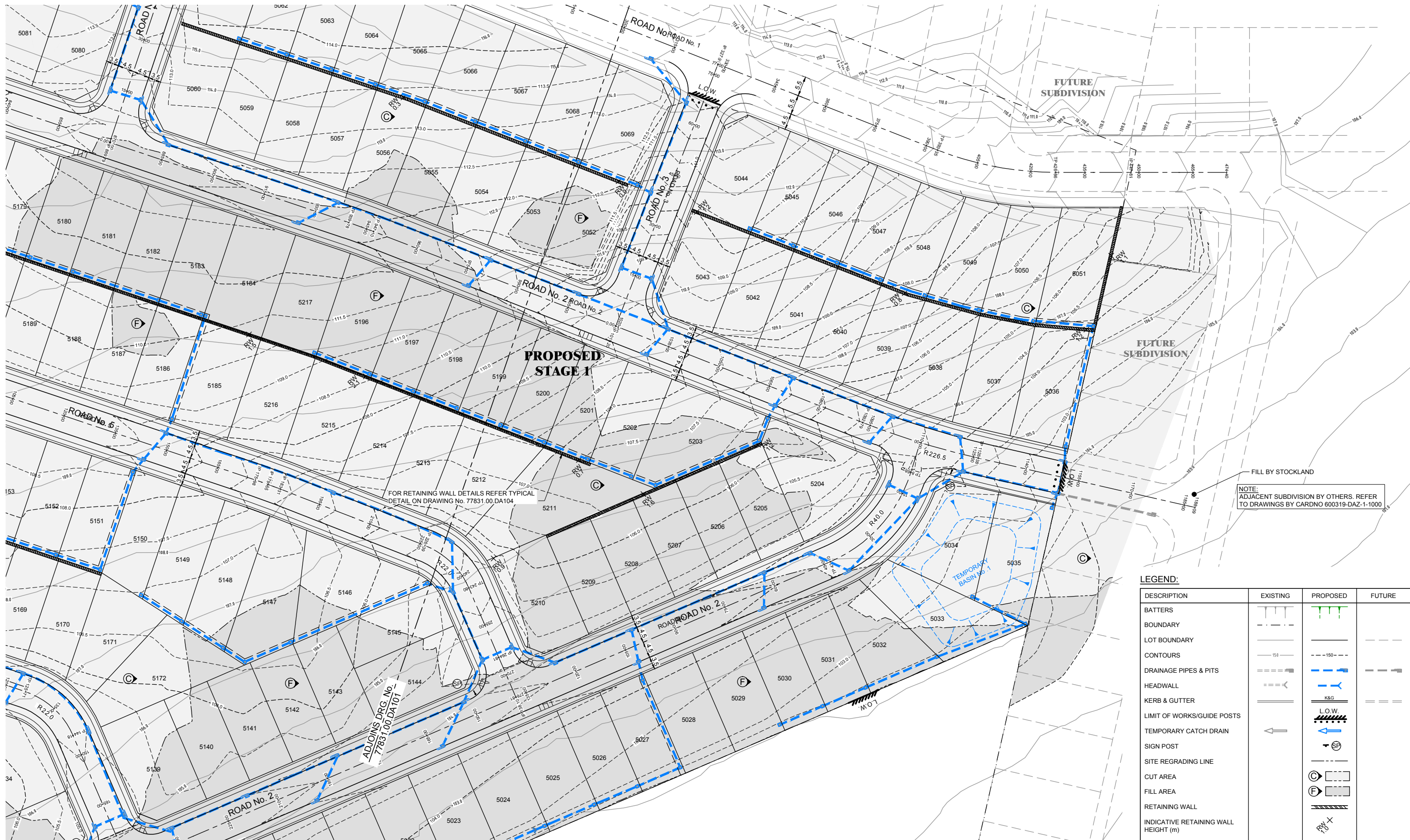
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LEPPINGTON
STAGE 1
CAMDEN COUNCIL
SITE REGRADING PLAN
SHEET 1 OF 6
Drawing No. 77831.00.DA101
Dev. App. No.
Sheet No. 3 of 29

Rev D

Subject to Approval

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PLOT DATE
25 Feb 2015
TIME
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SITE REGRADING PLAN - STAGE 1 - SHEET 2 OF 6

SCALE 1:500



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SEPTEMBER 2014

Scale @ A1

0 5 10 20
1:500

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LEPPINGTON
STAGE 1
CAMDEN COUNCIL
SITE REGRADING PLAN
SHEET 2 OF 6
Drawing No. 77831.00.DA102
Dev. App. No.
Sheet No. 4 of 29

Rev D

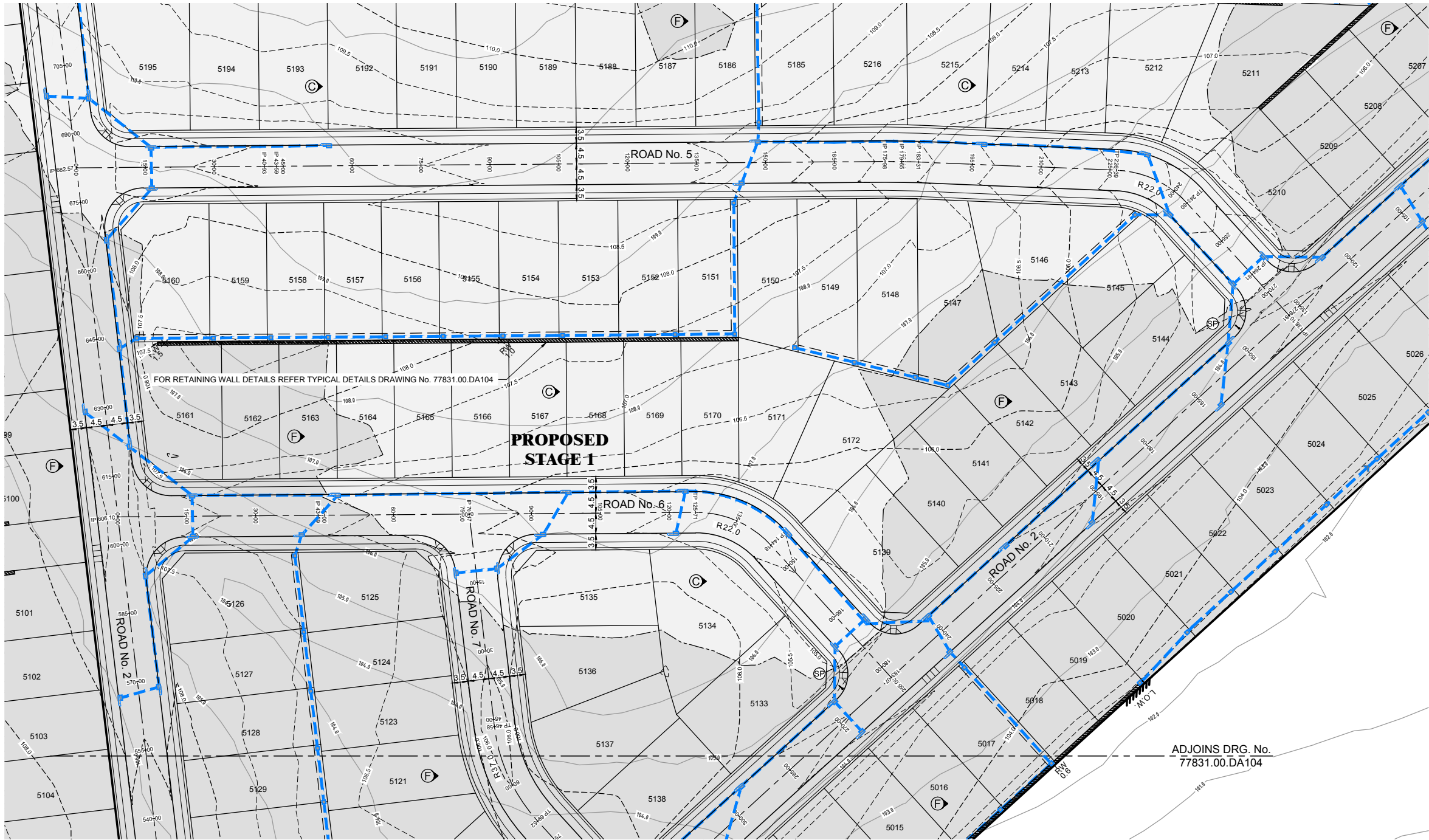
Subject to Approval

TIME 14:28:17
PLOT DATE 25 Feb 2015

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100 mm ON A3



SITE REGRADING PLAN - STAGE 1 - SHEET 3 OF 6

SCALE 1:500

LEGEND:

DESCRIPTION	EXISTING	PROPOSED	FUTURE
BATTERS			
BOUNDARY			
LOT BOUNDARY			
CONTOURS			
DRAINAGE PIPES & PITS			
HEADWALL			
KERB & GUTTER			
LIMIT OF WORKS/GUIDE POSTS			
TEMPORARY CATCH DRAIN			
SIGN POST			
SITE REGRADING LINE			
CUT AREA			
FILL AREA			
RETAINING WALL			
INDICATIVE RETAINING WALL HEIGHT (m)			



Principal
CORNISH

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Project Manager
P. PARFENOW
Designed
J. HYNES
Drawn
M. NEILSON
Checked
P. PARFENOW
Authorised
P. G. McNAMARA
Date
SEPTEMBER 2014

Scale @ A1

0 5 10 20
1:500

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LEPPINGTON

STAGE 1
CAMDEN COUNCIL
SITE REGRADING PLAN
SHEET 3 OF 6

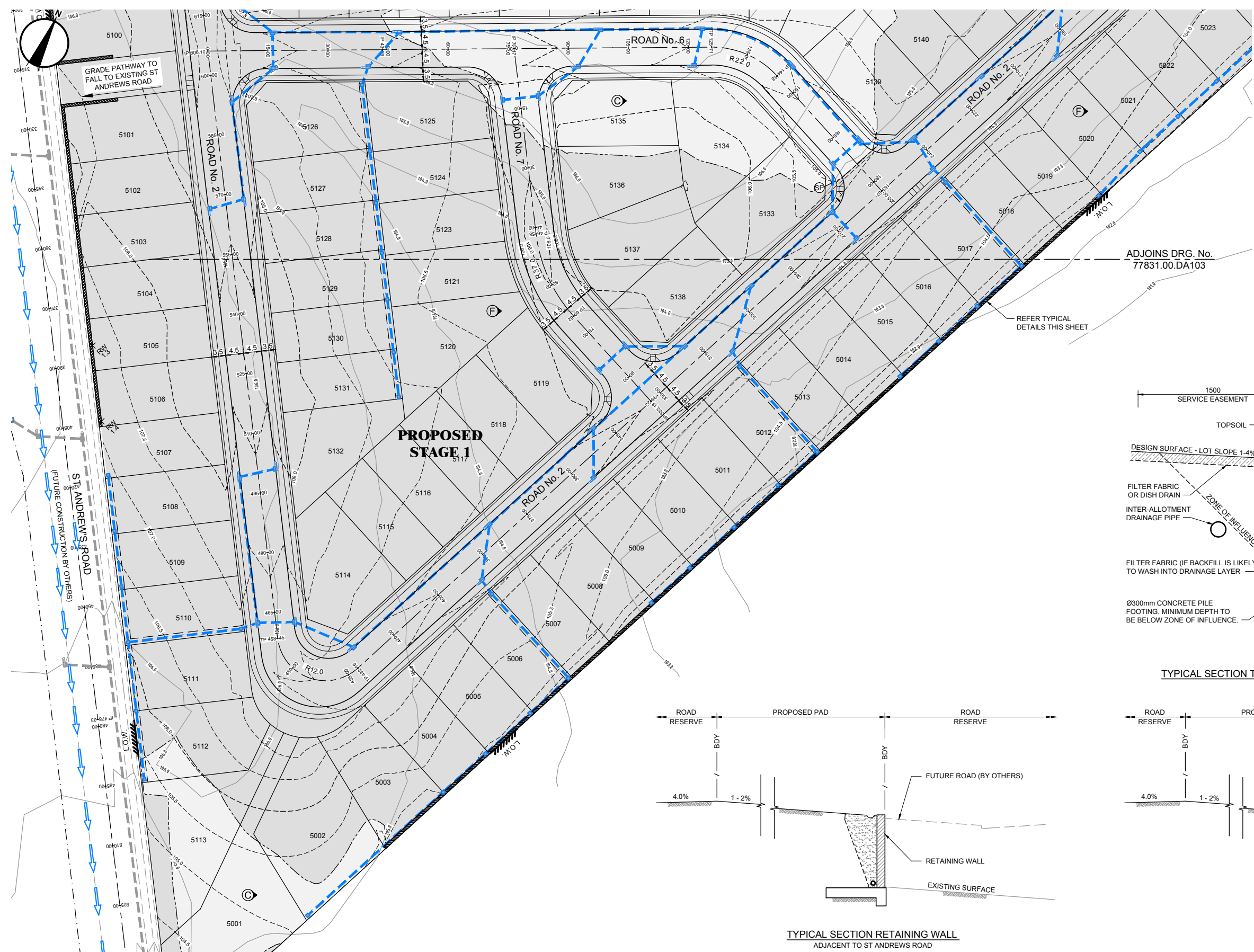
Drawing No. 77831.00.DA103

Dev. App. No.
Sheet No. 5 of 29

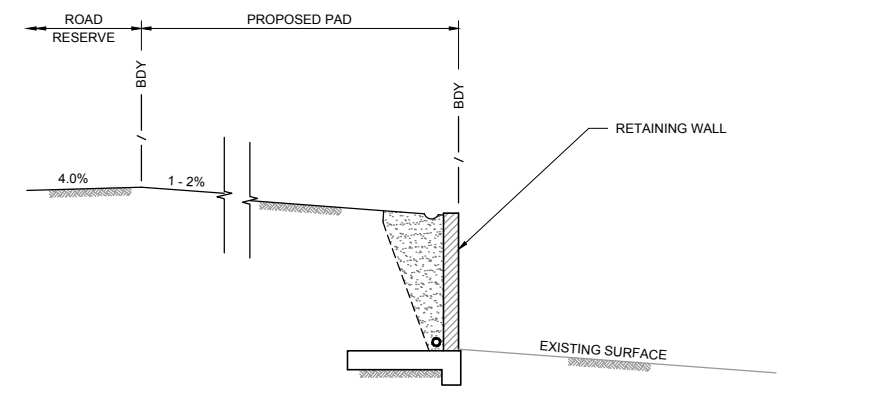
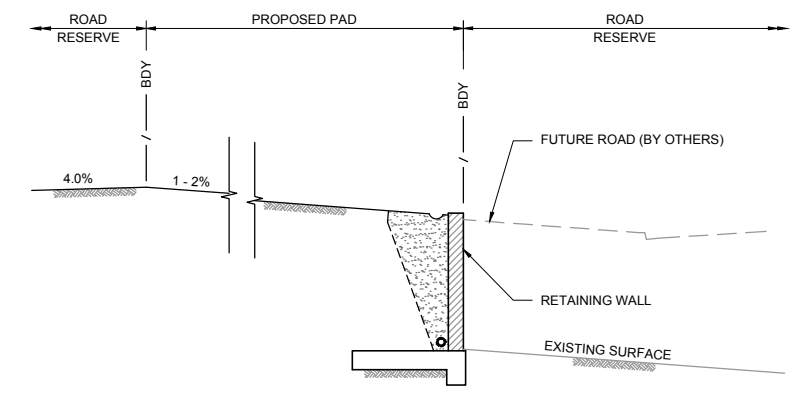
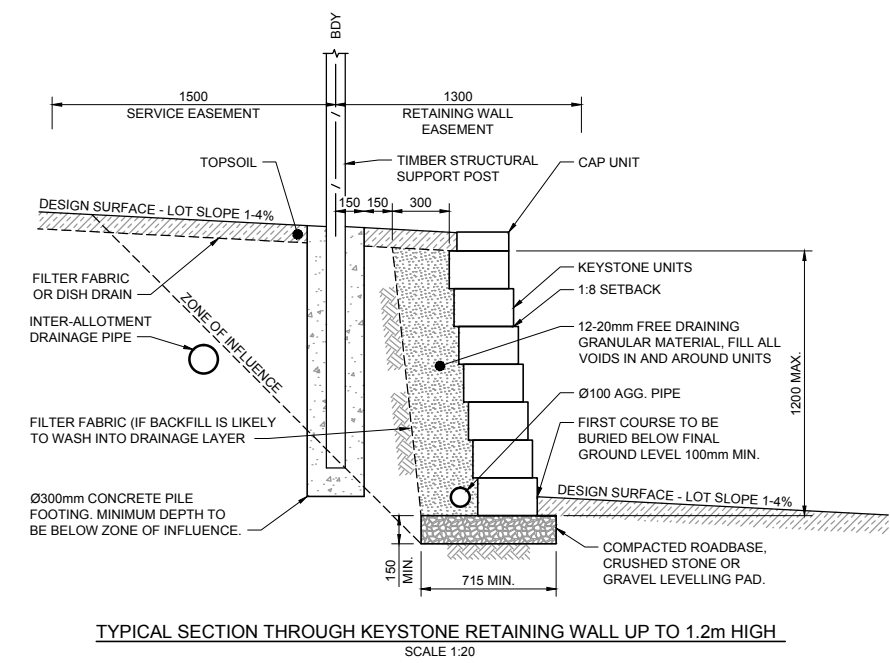
Rev D

Subject to Approval

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PLOT DATE 25 Feb 2015
TIME 14:28:46



DESCRIPTION	EXISTING	PROPOSED	FUTURE
BATTERS			
BOUNDARY			
LOT BOUNDARY			
CONTOURS			
DRAINAGE PIPES & PITS			
HEADWALL			
KERB & GUTTER			
LIMIT OF WORKS/GUIDE POSTS			
TEMPORARY CATCH DRAIN			
SIGN POST			
SITE REGRADING LINE			
CUT AREA			
FILL AREA			
RETAINING WALL			
INDICATIVE RETAINING WALL HEIGHT (m)			



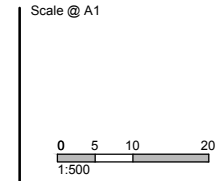
SITE REGRADING PLAN - STAGE 1 - SHEET 4 OF 6
SCALE 1:500

REVISION	DATE	DES/DET	WVR	APPD
D	25/02/15	MN	N/A	PP
C	24/02/15	LR/PX	N/A	PP
B	10/10/14	MS	-	JH
A	26/09/14	LR/MS	-	PP

Principal
CORNISH

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Project Manager
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Designed
J. HYNES
Drawn
M. NEILSON
Checked
P. PARFENOW
Authorised
P. G. McNAMARA
Date
SEPTEMBER 2014



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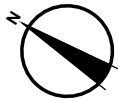
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LEPPINGTON
STAGE 1
CAMDEN COUNCIL
SITE REGRADING PLAN
SHEET 4 OF 6
Drawing No. 77831.00.DA104
Dev. App. No.
Sheet No. 6 of 29
Rev D
Subject to Approval

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PLOT DATE 25 Feb 2015
TIME 14:29:16



NOTE:
ADJACENT SUBDIVISION BY OTHERS. REFER
TO DRAWINGS BY CARDNO 600319-DAZ-1-1000



SITE REGRADING PLAN - STAGE 1 - SHEET 5 OF 6

SCALE 1:500

LEGEND:			
DESCRIPTION	EXISTING	PROPOSED	FUTURE
BATTERS			
BOUNDARY			
LOT BOUNDARY			
CONTOURS			
DRAINAGE PIPES & PITS			
HEADWALL			
KERB & GUTTER			
LIMIT OF WORKS/GUIDE POSTS			
TEMPORARY CATCH DRAIN			
SIGN POST			
SITE REGRADING LINE			
CUT AREA			
FILL AREA			
RETAINING WALL			
INDICATIVE RETAINING WALL HEIGHT (m)			



Principal
CORNISH

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Project Manager
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Designed
J. HYNES
Drawn
M. NEILSON
Checked
P. PARFENOW
Authorised
P. G. McNAMARA
Date
SEPTEMBER 2014

Scale @ A1

0 5 10 20
1:500

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LEPPINGTON

STAGE 1
CAMDEN COUNCIL
SITE REGRADING PLAN
SHEET 5 OF 6

Drawing No. 77831.00.DA105

Dev. App. No.
Sheet No. 7 of 29

Rev D

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TIME 14:29:45
PLOT DATE 25 Feb 2015

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ADJOINS DRG. No.
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85

80

75

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65

60

55

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20

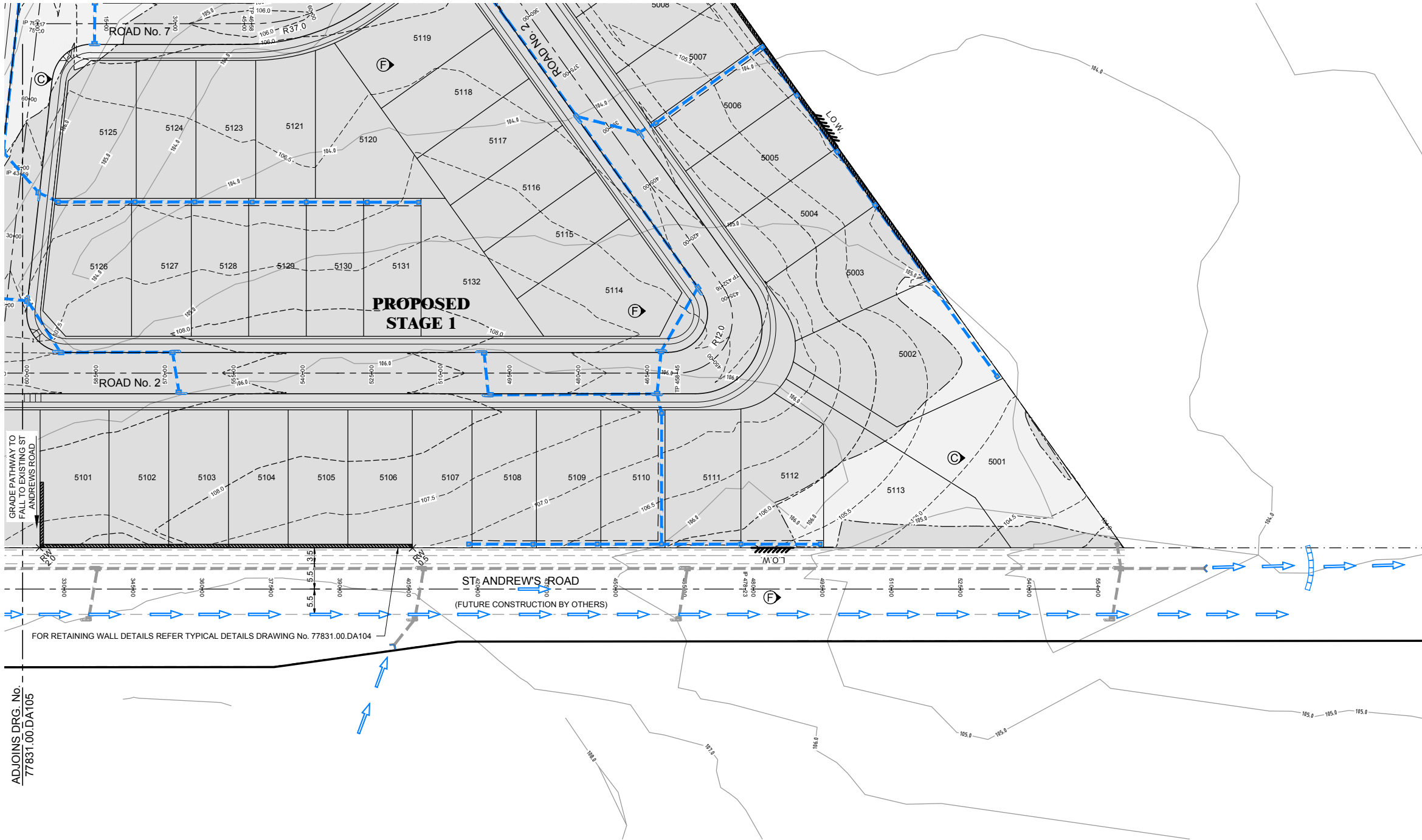
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10

5

0

100 mm ON A3



SITE REGRADING PLAN - STAGE 1 - SHEET 6 OF 6

SCALE 1:500

LEGEND:

DESCRIPTION	EXISTING	PROPOSED	FUTURE
BATTERS			
BOUNDARY			
LOT BOUNDARY			
CONTOURS			
DRAINAGE PIPES & PITS			
HEADWALL			
KERB & GUTTER			
LIMIT OF WORKS/GUIDE POSTS			
TEMPORARY CATCH DRAIN			
SIGN POST			
SITE REGRADING LINE			
CUT AREA			
FILL AREA			
RETAINING WALL			
INDICATIVE RETAINING WALL HEIGHT (m)			

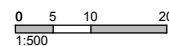


Principal
CORNISH

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Project Manager
P. PARFENOW
Designed
J. HYNES
Drawn
M. NEILSON
Checked
P. PARFENOW
Authorised
P. G. McNAMARA
Date
SEPTEMBER 2014

Scale @ A1



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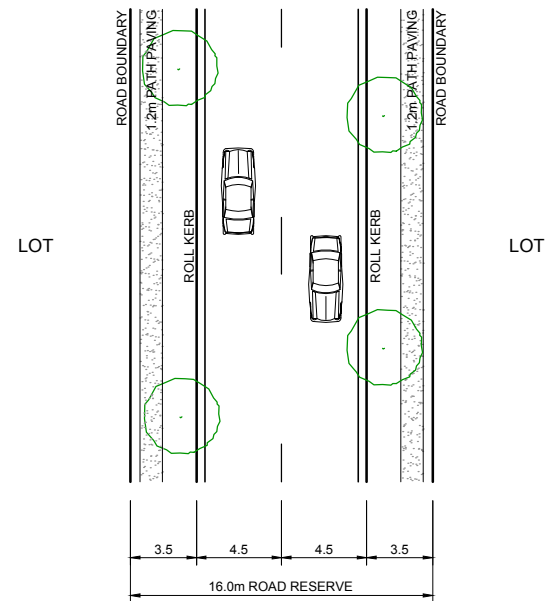
LEPPINGTON
STAGE 1
CAMDEN COUNCIL
SITE REGRADING PLAN
SHEET 6 OF 6

Drawing No. 77831.00.DA106

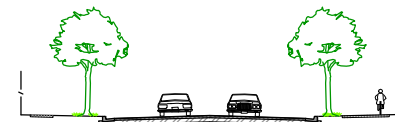
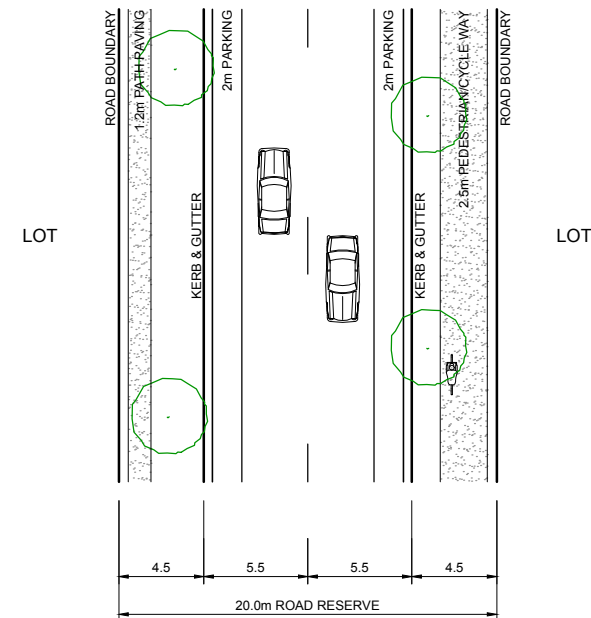
Dev. App. No.
Sheet No. 8 of 29

Rev D

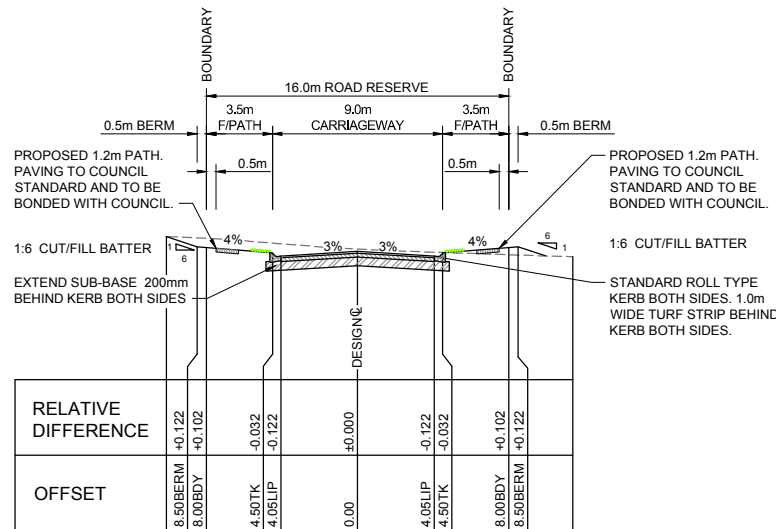
Subject to Approval



16.0m WIDE LOCAL ROAD
ROAD No. 2, 3, 4, 5, 6 & 7
SCALE 1:200

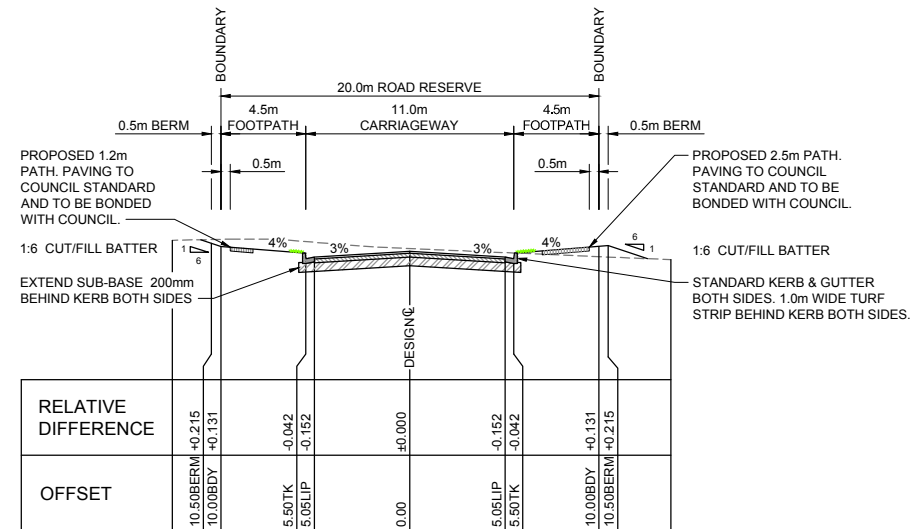


20.0m WIDE COLLECTOR ROAD
ROAD No. 1 BY OTHERS
SCALE 1:200



16.0m WIDE ROAD TYPICAL CROSS SECTION
ROAD No. 2, 3, 4, 5, 6 & 7
SCALE 1:200 HOR 1:100 VER

PAVEMENT DETAILS:
50mm AC SEAL
100mm DGB 20
230mm SANDSTONE
(SUBJECT TO TESTING BY NATA LAB)
TRAFFIC LOADING ESA 5 x 10⁵



20.0m WIDE ROAD TYPICAL CROSS SECTION
ROAD No. 1 BY OTHERS
SCALE 1:200 HOR 1:100 VER

PAVEMENT DETAILS:
50mm AC SEAL
100mm DGB 20
230mm SANDSTONE
(SUBJECT TO TESTING BY NATA LAB)
TRAFFIC LOADING ESA 1 x 10⁶



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Designed
J. HYNES
Drawn
M. NEILSON
Checked
P. PARFENOW
Authorised
P. G. McNAMARA
Date
SEPTEMBER 2014

Scale @ A1
0 2 4 8
0 1 2 4
H 1:200 V 1:100

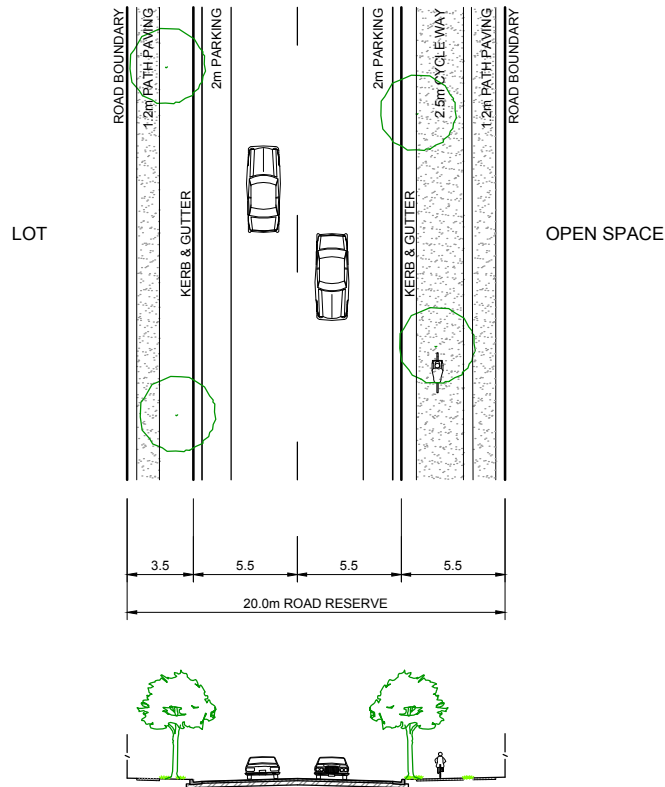
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Traralgon +61 3 5173 0100

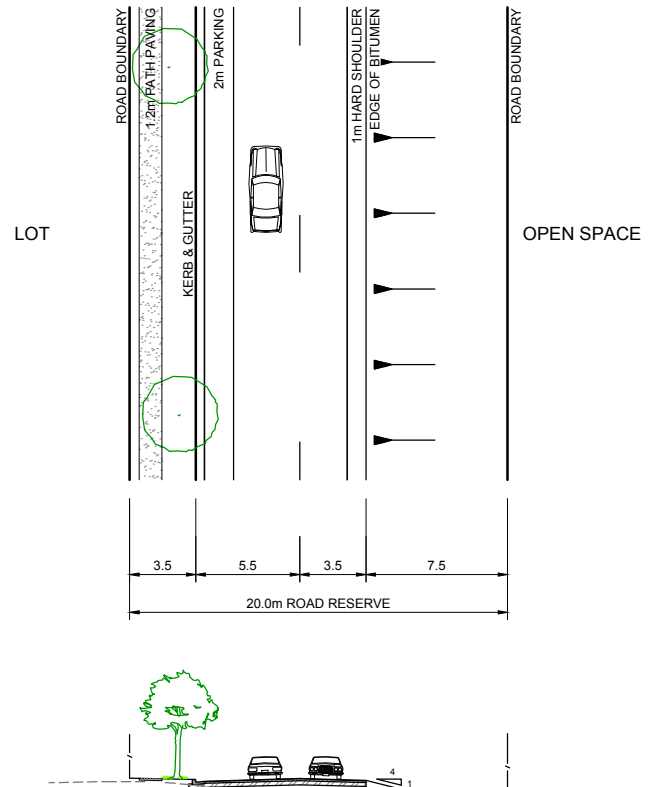
LEPPINGTON
STAGE 1
CAMDEN COUNCIL
TYPICAL CROSS SECTIONS
16m WIDE LOCAL ROAD
Drawing No. 77831.00.DA201
Dev. App. No.
Sheet No. 9 of 29

Rev C

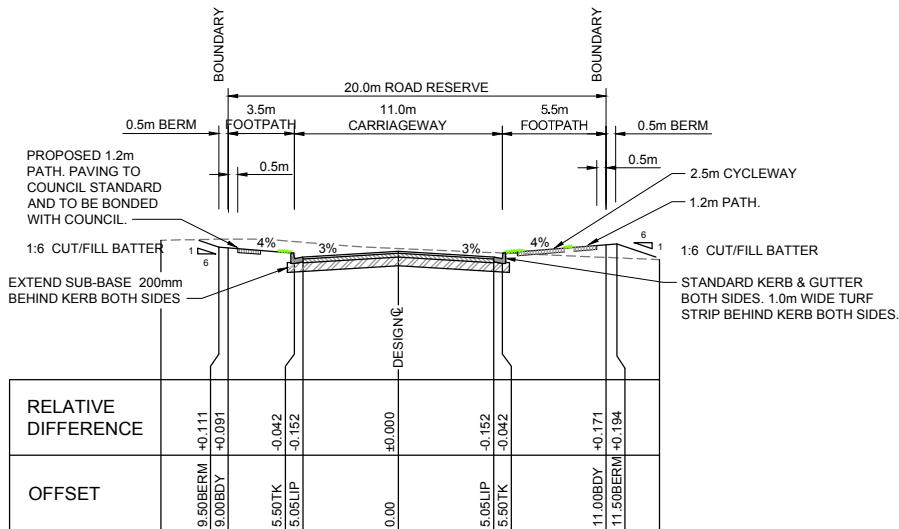
Subject to Approval



20.0m WIDE COLLECTOR ROAD
ST. ANDREW'S (FUTURE)
SCALE 1:200

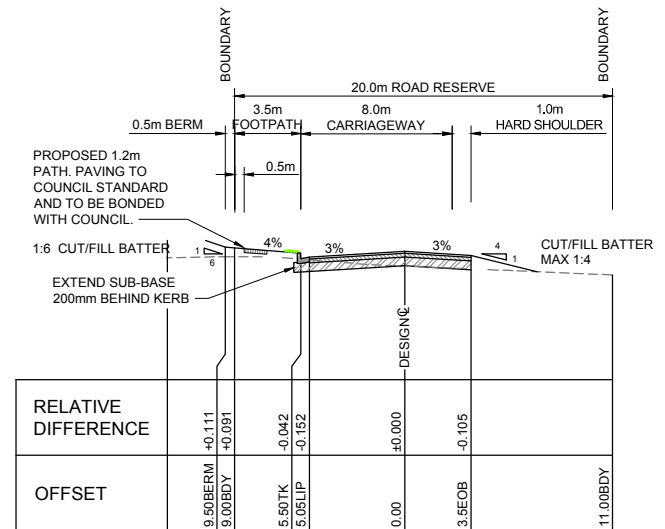


20.0m WIDE COLLECTOR ROAD
ST. ANDREW'S (PROPOSED)
SCALE 1:200



20.0m WIDE ROAD TYPICAL CROSS SECTION
ST. ANDREW'S ROAD (FUTURE)
SCALE 1:200 HOR 1:100 VER

PAVEMENT DETAILS:
50mm AC SEAL
100mm DGB 20
230mm SANDSTONE
(SUBJECT TO TESTING BY NATA LAB)
TRAFFIC LOADING ESA 1 x 10⁶



20.0m WIDE ROAD TYPICAL CROSS SECTION
ST. ANDREW'S ROAD (PROPOSED)
SCALE 1:200 HOR 1:100 VER

PAVEMENT DETAILS:
50mm AC SEAL
100mm DGB 20
230mm SANDSTONE
(SUBJECT TO TESTING BY NATA LAB)
TRAFFIC LOADING ESA 1 x 10⁶

REVISION	DATE	DES/DT	WVR	APPD
C LAYOUT REVISED. STAGES COMBINED.	24/02/15	LR/PX	N/A	PP
B ADD RETAINING WALL HEIGHTS	10/10/14	MS	-	JH
A INITIAL ISSUE TO COUNCIL FOR DEVELOPMENT APPLICATION	26/09/14	LR/MS	-	PP

Principal
CORNISH

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Project Manager
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Designed
J. HYNES
Drawn
M. NEILSON
Checked
P. PARFENOW
Authorised
P. G. McNAMARA
Date
SEPTEMBER 2014

Scale @ A1
0 2 4 8
0 1 2 4
H 1:200 V 1:100

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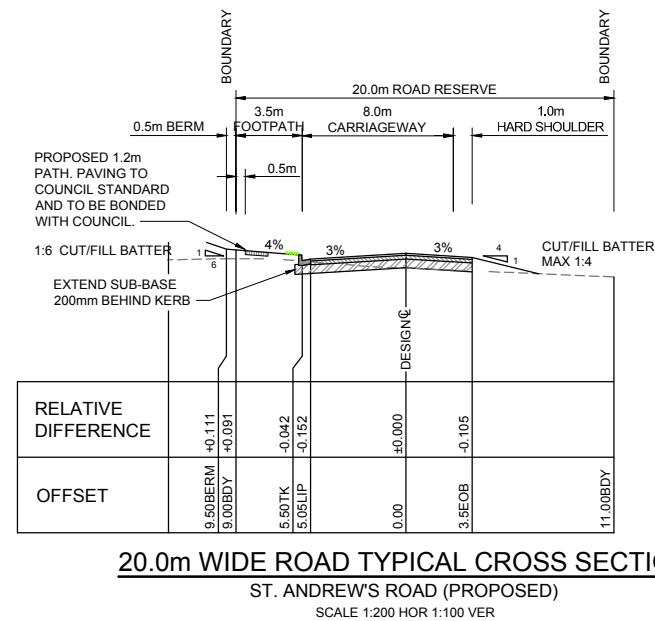
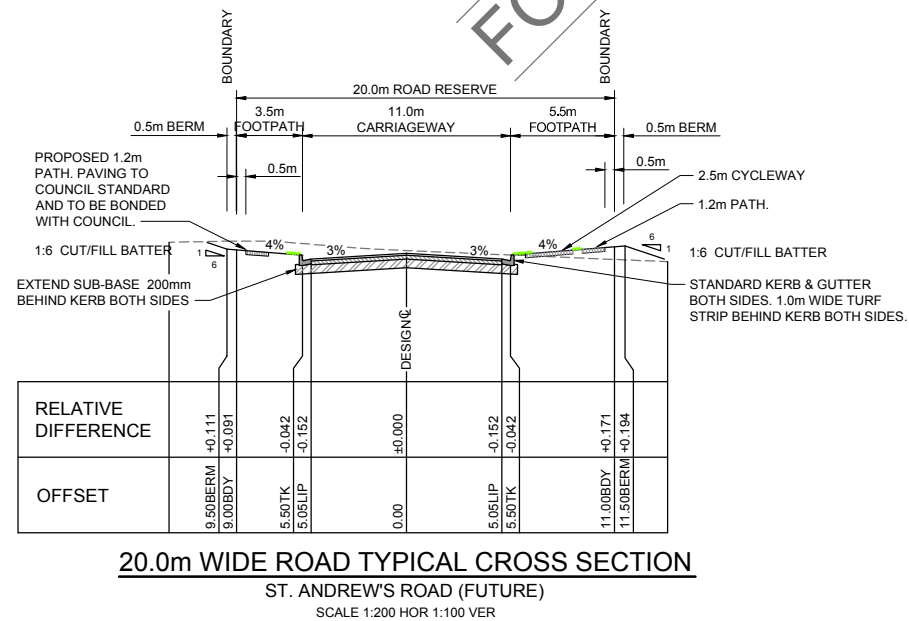
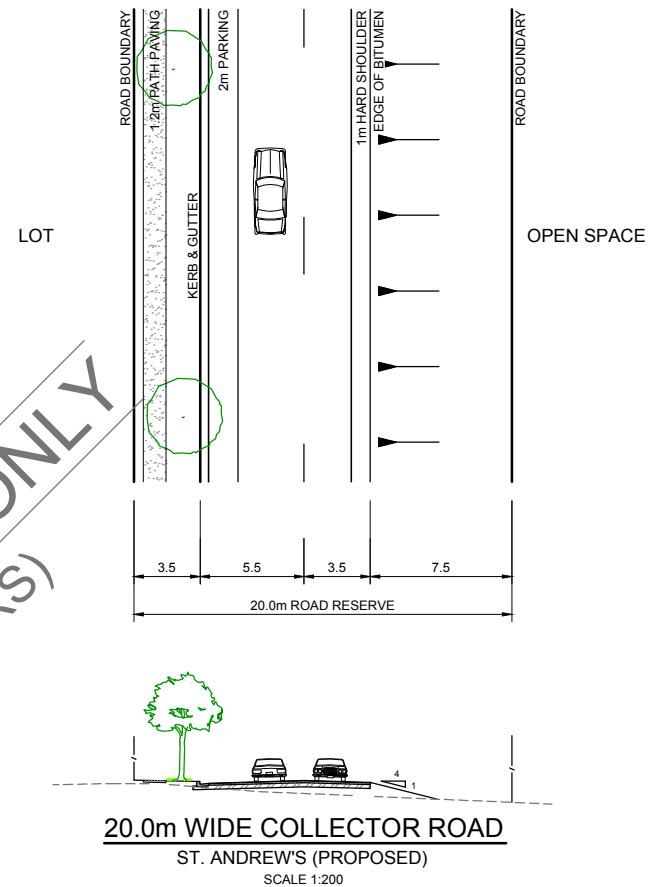
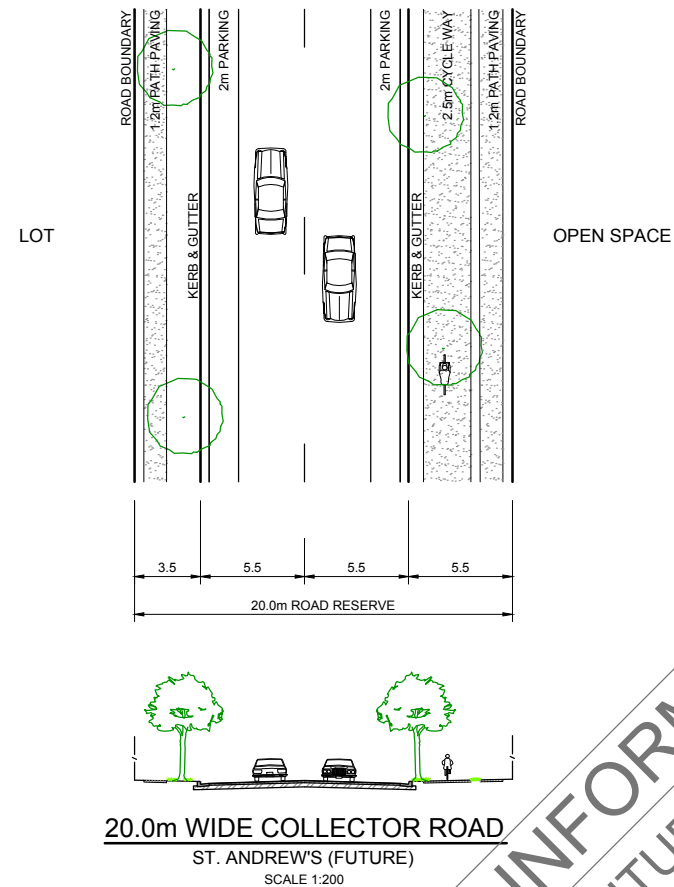
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LEPPINGTON
STAGE 1
CAMDEN COUNCIL
TYPICAL CROSS SECTIONS
20m WIDE COLLECTOR ROAD
Drawing No. 77831.00.DA202
Dev. App. No.
Sheet No. 10 of 29

Rev C

Subject to Approval



PAVEMENT DETAILS:
50mm AC SEAL
100mm DGB 20
230mm SANDSTONE
(SUBJECT TO TESTING BY NATA LAB)
TRAFFIC LOADING ESA 1 x 10⁶

PAVEMENT DETAILS:
50mm AC SEAL
100mm DGB 20
230mm SANDSTONE
(SUBJECT TO TESTING BY NATA LAB)
TRAFFIC LOADING ESA 1 x 10⁶

REVISION	DATE	DES/DT	WVR	APPD
D	25/02/15	MN	N/A	PP
C	24/02/15	LR/PX	N/A	PP
B	10/10/14	MS	-	JH
A	26/09/14	LR/MS	-	PP



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Designed
J. HYNES
Drawn
M. NEILSON
Checked
P. PARFENOW
Authorised
P. G. McNAMARA
Date
SEPTEMBER 2014

Scale @ A1
0 2 4 8
0 1 2 4
H 1:200 V 1:100

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LEPPINGTON
STAGE 1
CAMDEN COUNCIL
TYPICAL CROSS SECTIONS
20m WIDE COLLECTOR ROAD
Drawing No. 77831.00.DA202
Dev. App. No.
Sheet No. 10 of 29

Rev D

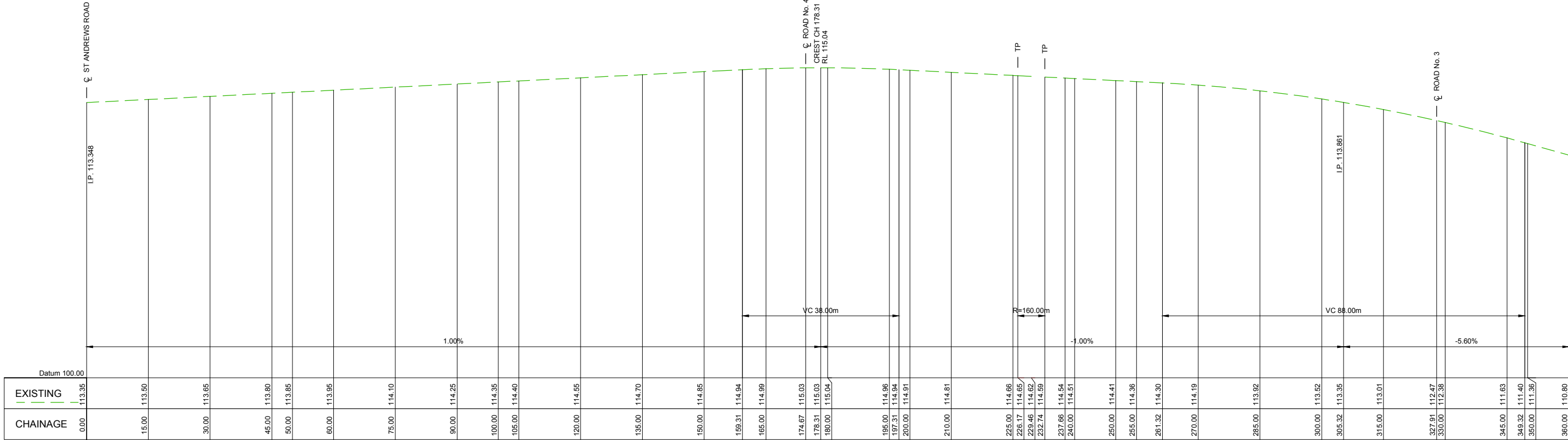
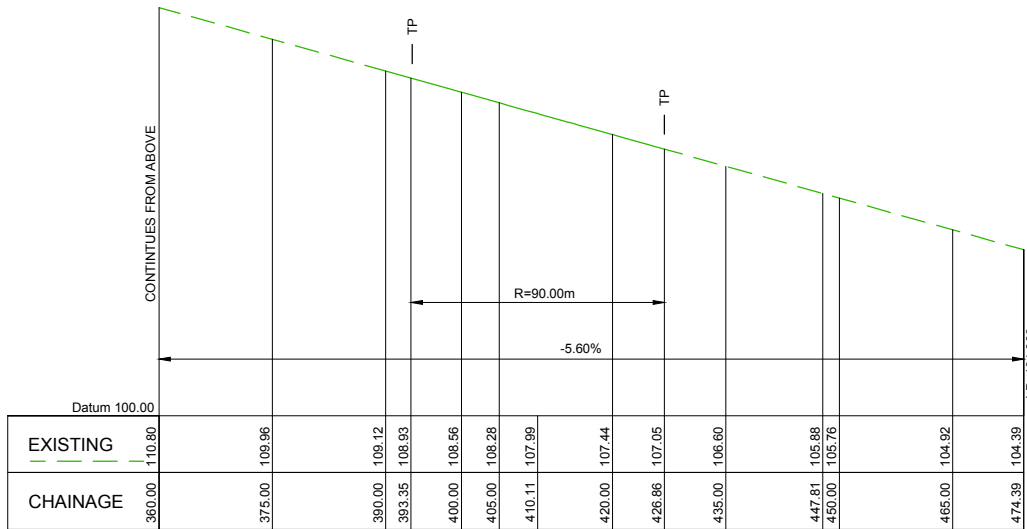
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PLOT DATE
24 Feb 2015

TIME
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REVISION	DATE	DES/DT	WVR	APPD
C LAYOUT REVISED. STAGES COMBINED.	24/02/15	LR/PX	N/A	PP
B ADD RETAINING WALL HEIGHTS	10/10/14	MS	-	JH
A INITIAL ISSUE TO COUNCIL FOR DEVELOPMENT APPLICATION	26/09/14	LR/MS	-	PP

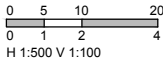
Principal
CORNISH



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Authorised
P. G. McNAMARA
Date
SEPTEMBER 2014

Scale @ A1



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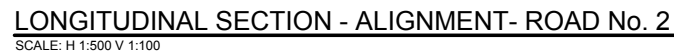
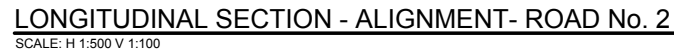
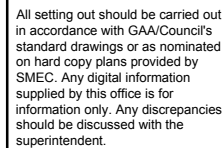
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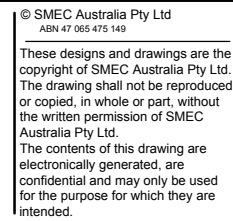
LEPPINGTON
STAGE 1
CAMDEN COUNCIL
LONGITUDINAL SECTIONS
ROAD No. 1
Drawing No. 77831.00.DA211
Dev. App. No.
Sheet No. 11 of 29

Rev C

Subject to Approval

[illegible]

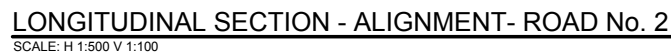
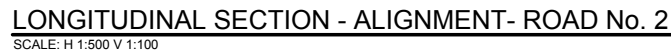
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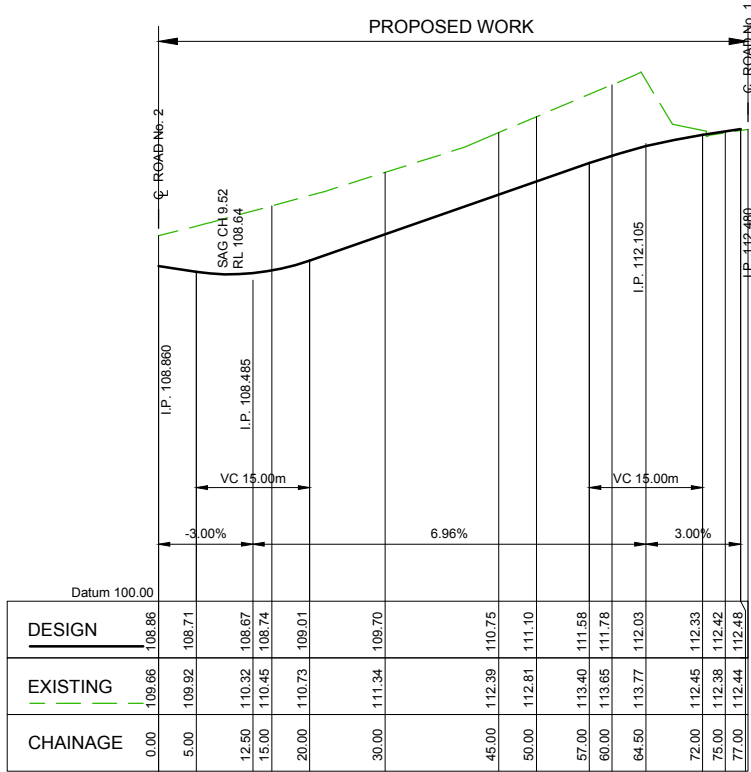


LEPPINGTON
STAGE 1
CAMDEN COUNCIL
LONGITUDINAL SECTIONS
ROAD No. 2 - SHEET 1 OF 2
Drawing No. 77831.00.DA212
Dev. App. No.
Sheet No. 12 of 29

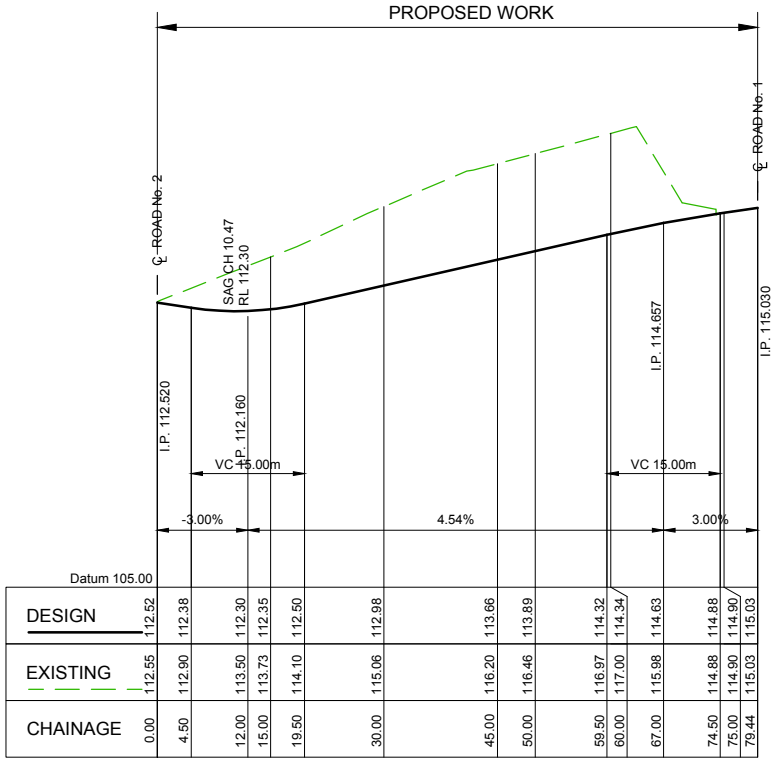
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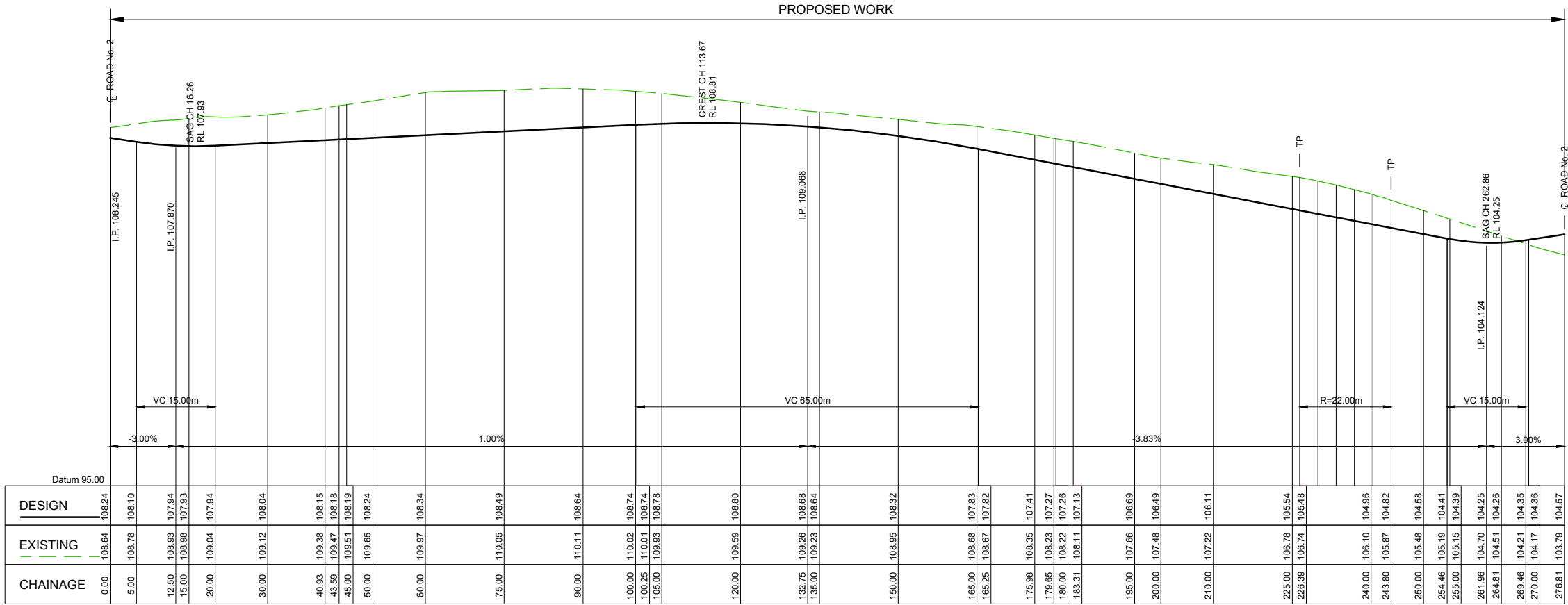
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LONGITUDINAL SECTION - ALIGNMENT- ROAD No. 3
SCALE: H 1:500 V 1:100



LONGITUDINAL SECTION - ALIGNMENT- ROAD No. 4
SCALE: H 1:500 V 1:100



LONGITUDINAL SECTION - ALIGNMENT - ROAD No. 5
SCALE: H 1:500 V 1:100



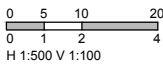
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B ADD RETAINING WALL HEIGHTS	10/10/14	MS	-	JH	
A INITIAL ISSUE TO COUNCIL FOR DEVELOPMENT APPLICATION	26/09/14	LR/MS	-	PP	
REVISION	DATE	DES/DET	WVR	APPD	

Principal
CORNISH

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Project Manager
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Drawn
M. NEILSON
Checked
P. PARFENOW
Authorised
P. G. McNAMARA
Date
SEPTEMBER 2014

Scale @ A1



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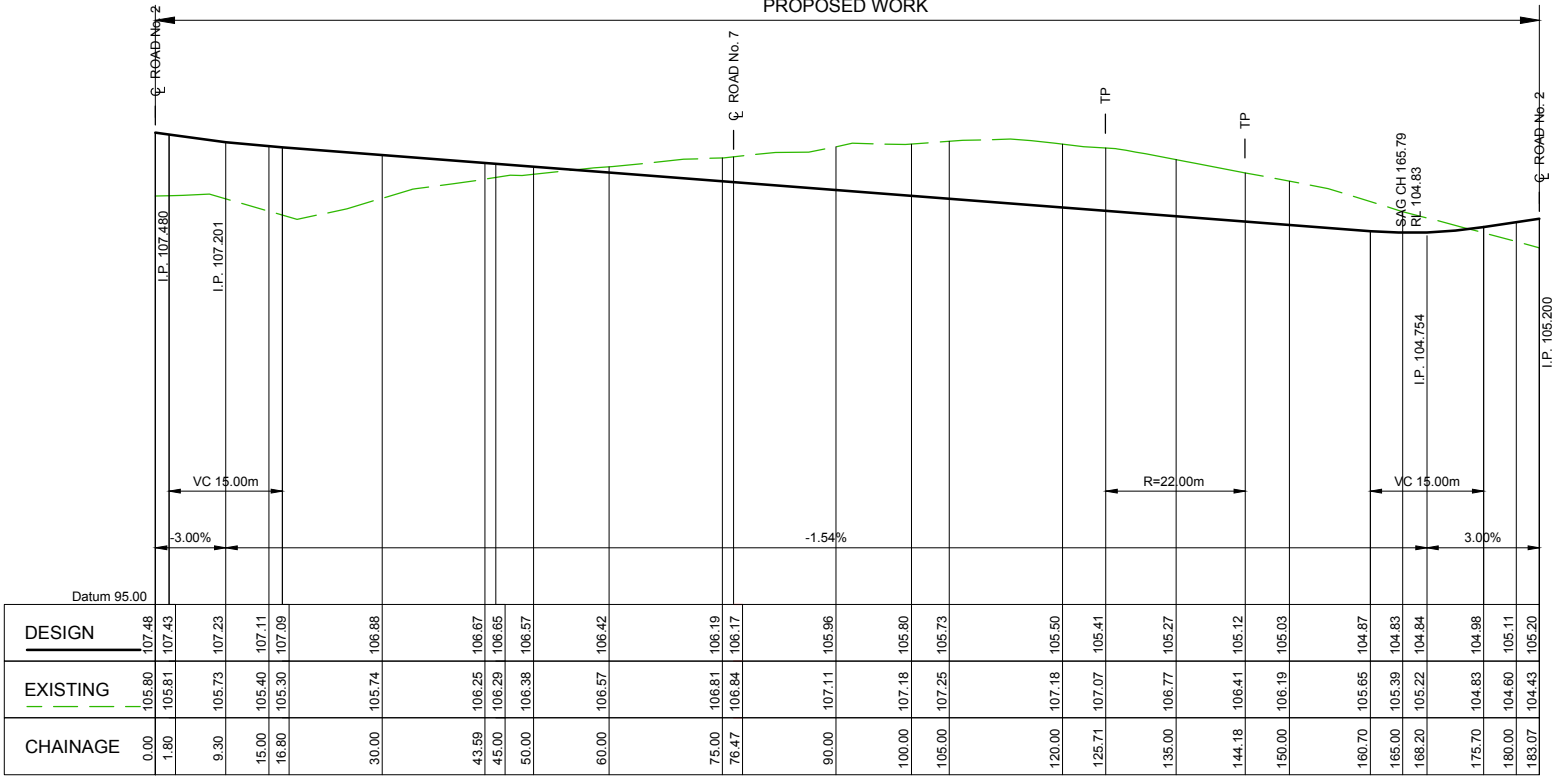


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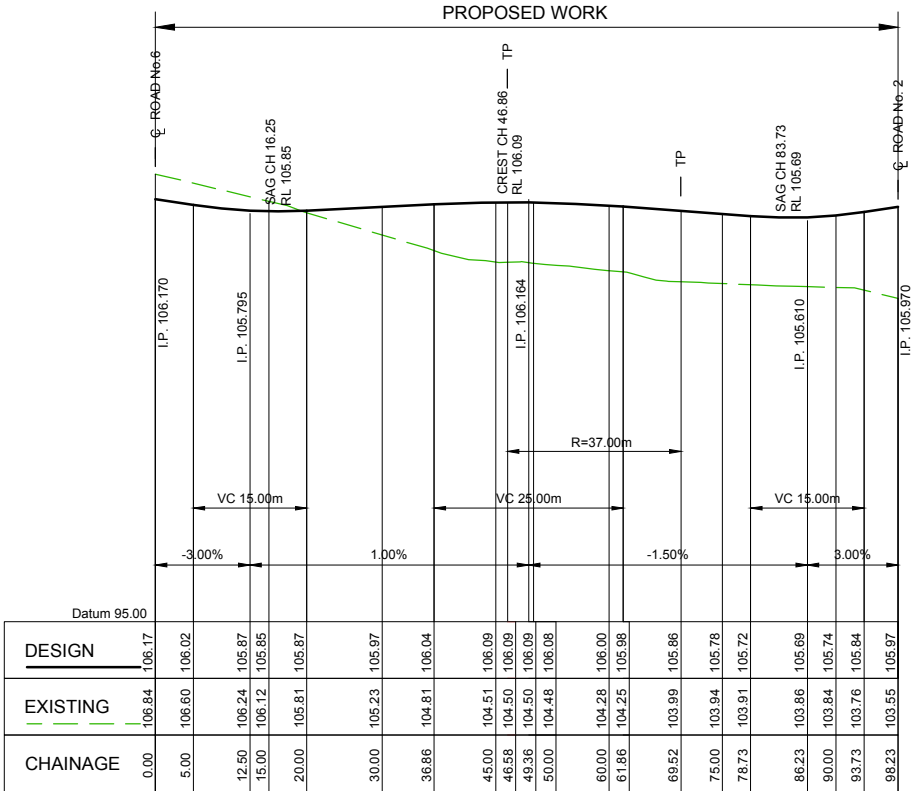
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Gold Coast +61 7 5578 0222
Perth +61 8 9323 5900
Traralgon +61 3 5173 0100

LEPPINGTON
STAGE 1
CAMDEN COUNCIL
LONGITUDINAL SECTIONS
ROAD No. 3, ROAD No. 4 & ROAD No. 5
Drawing No. 77831.00.DA214
Dev. App. No.
Sheet No. 14 of 29
Subject to Approval

Rev C



LONGITUDINAL SECTION - ALIGNMENT - ROAD No. 6
SCALE: H 1:500 V 1:100



LONGITUDINAL SECTION - ALIGNMENT- ROAD No. 7
SCALE: H 1:500 V 1:100

REVISION	DATE	DES/DET	WVR	APPD
C LAYOUT REVISED. STAGES COMBINED.	24/02/15	LR/PX	N/A	PP
B ADD RETAINING WALL HEIGHTS	10/10/14	MS	-	JH
A INITIAL ISSUE TO COUNCIL FOR DEVELOPMENT APPLICATION	26/09/14	LR/MS	-	PP

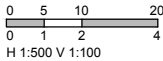
Principal
CORNISH



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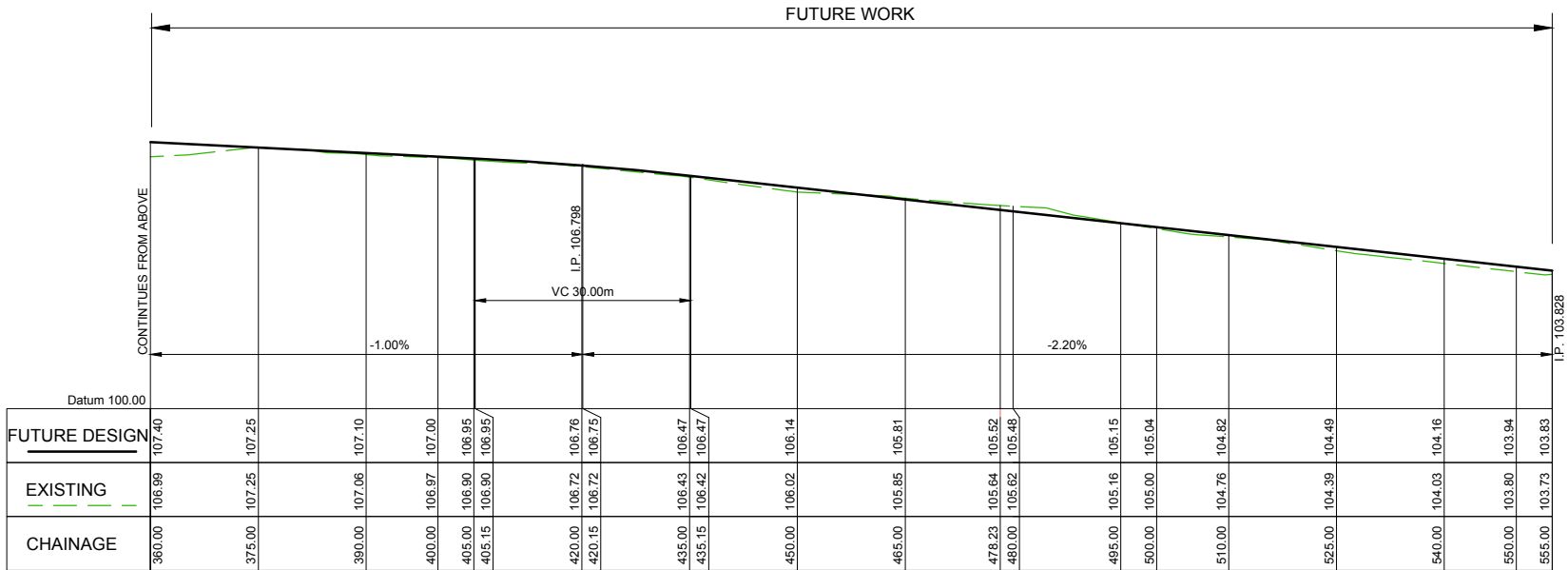
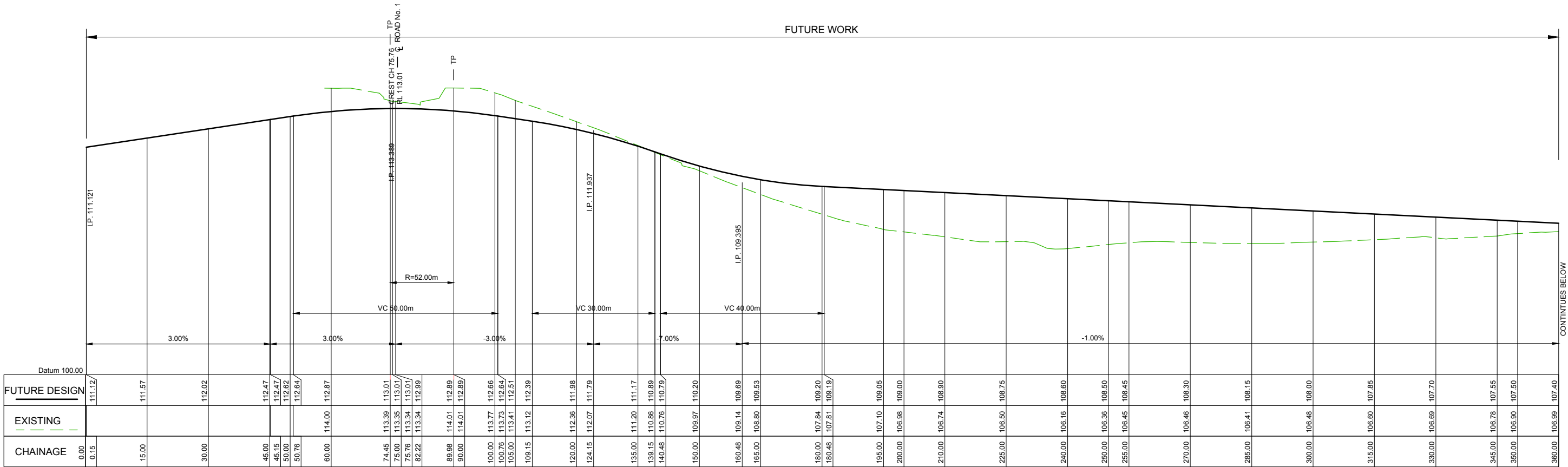


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LEPPINGTON
STAGE 1
CAMDEN COUNCIL
LONGITUDINAL SECTIONS
ROAD No. 6 & ROAD No. 7
Drawing No. 77831.00.DA215
Dev. App. No.
Sheet No. 15 of 29


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C LAYOUT REVISED. STAGES COMBINED.	24/02/15	LR/PX	N/A	PP
B ADD RETAINING WALL HEIGHTS	10/10/14	MS	-	JH
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Principal
CORNISH



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P. G. McNAMARA
Date
SEPTEMBER 2014


Scale @ A1



H 1:500 V 1:100

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
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LEPPINGTON
STAGE 1
CAMDEN COUNCIL
LONGITUDINAL SECTIONS
ST ANDREW'S ROAD
Drawing No. 77831.00.DA216
Dev. App. No.
Sheet No. 16 of 29

Rev C

Subject to Approval



Surface Analysis: Elevation Ranges			
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1		-4.0	-3.0
2		-3.0	-2.0
3		-2.0	-1.0
4		-1.0	0.0
5		0.0	1.0
6		1.0	2.0
7		2.0	3.0
8		3.0	4.0

BULK EARTHWORKS - AREAS & VOLUMES:	
<u>SUMMARY STAGE 1:</u>	
SURFACE AREA	= 12.8ha
CUT	= 69 324m ³
FILL	= 71 045m ³
IMPORT FILL	= 1 721m³

LEGEND:
 --- CUT/FILL LINE

NOTES:

1. THE PURPOSE OF THIS PLAN IS TO SHOW EARTHWORK QUANTITIES PROPOSED AS PART OF THE DEVELOPMENT APPLICATION.
2. THE QUANTITIES PROVIDED ARE THE DIFFERENCE IN LEVEL BETWEEN DESIGN AND NATURAL SURFACE (ONLY).
3. DEDUCTION OF BOXING OF ROADS, EXCESS TRENCH SPOIL, STRIPPING OF TOPSOIL SHALL BE CONSIDERED TO CONFIRM FINAL QUANTITIES.
4. FOR GENERAL NOTES REFER DRAWING No. 77831.00.DA002.

CUT & FILL PLAN

SCALE 1:1250

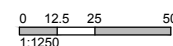
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B	ADD RETAINING WALL HEIGHTS	10/10/14	MS	-	JH
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REVISION		DATE	DES/DT	WWR	APPD

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Authorised
P. G. McNAMARA
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SEPTEMBER 2014

| Scale @ A1



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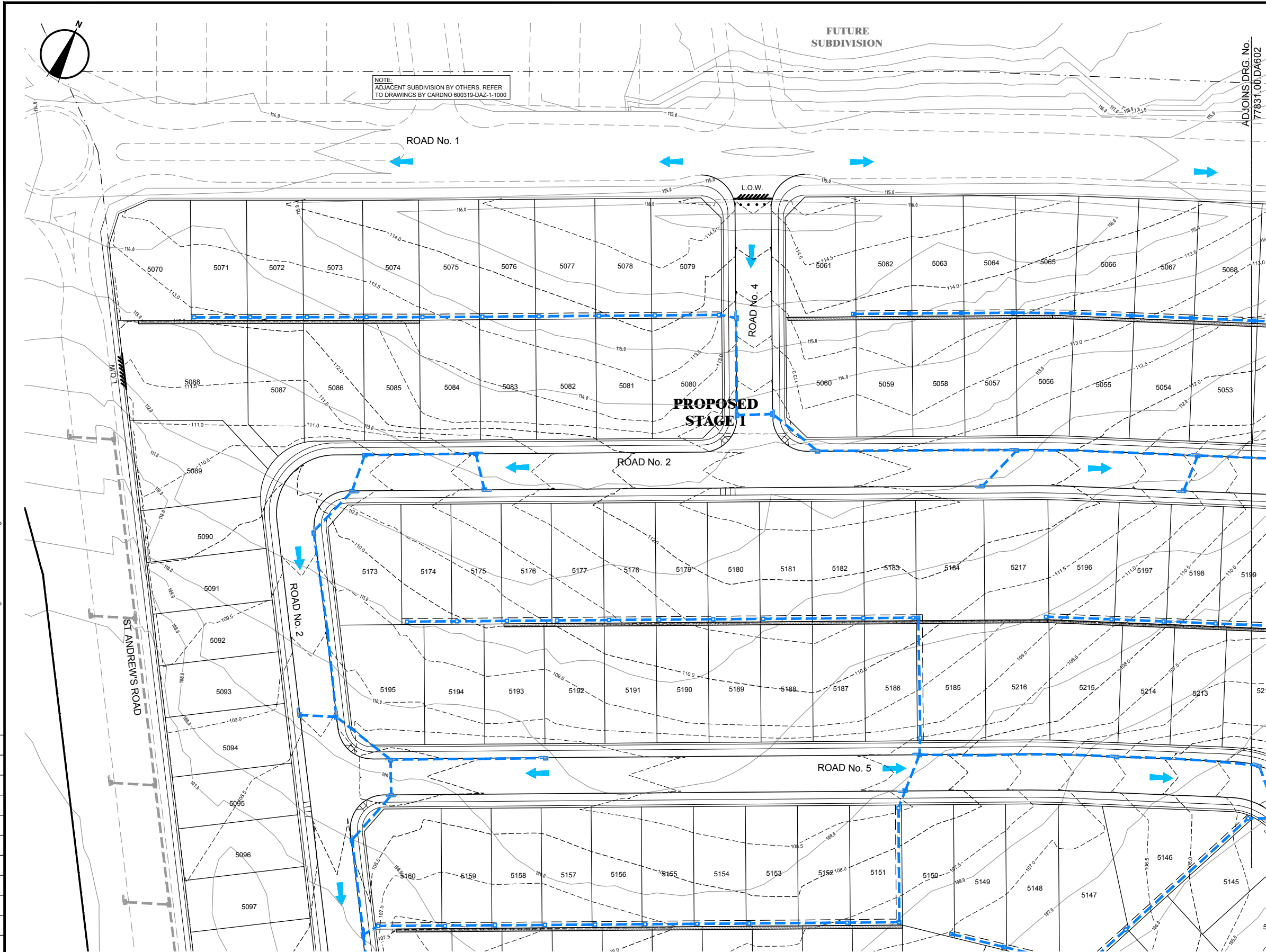
LEPPINGTON
STAGE 1
CAMDEN COUNCIL
CUT & FILL PLAN

Drawing No. 77831.00.DA501
Dev. App. No.
Sheet No. 17 of 29

Rev C

Subject to Approval

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CONCEPT DRAINAGE PLAN - STAGE 1 - SHEET 1 OF 6
SCALE 1:500

LEGEND:			
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DRAINAGE PIPES & PITS	==0375==	==0375==	---
HEADWALL	==>	==>	---
BOUNDARY	---	---	---
LOT BOUNDARY	---	---	---
KERB & GUTTER	---	---	---
SITE AREA			
FLOW DIRECTION		==>	
ROAD BOUNDARY	---	---	---

REVISION	DATE	DES/DET	WVR	APPD
C LAYOUT REVISED. STAGES COMBINED.	24/02/15	LR/PX	N/A	PP
B ADD RETAINING WALL HEIGHTS	10/10/14	MS	-	JH
A INITIAL ISSUE TO COUNCIL FOR DEVELOPMENT APPLICATION	26/09/14	LR/MS	-	PP

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Authorised
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Date
SEPTEMBER 2014

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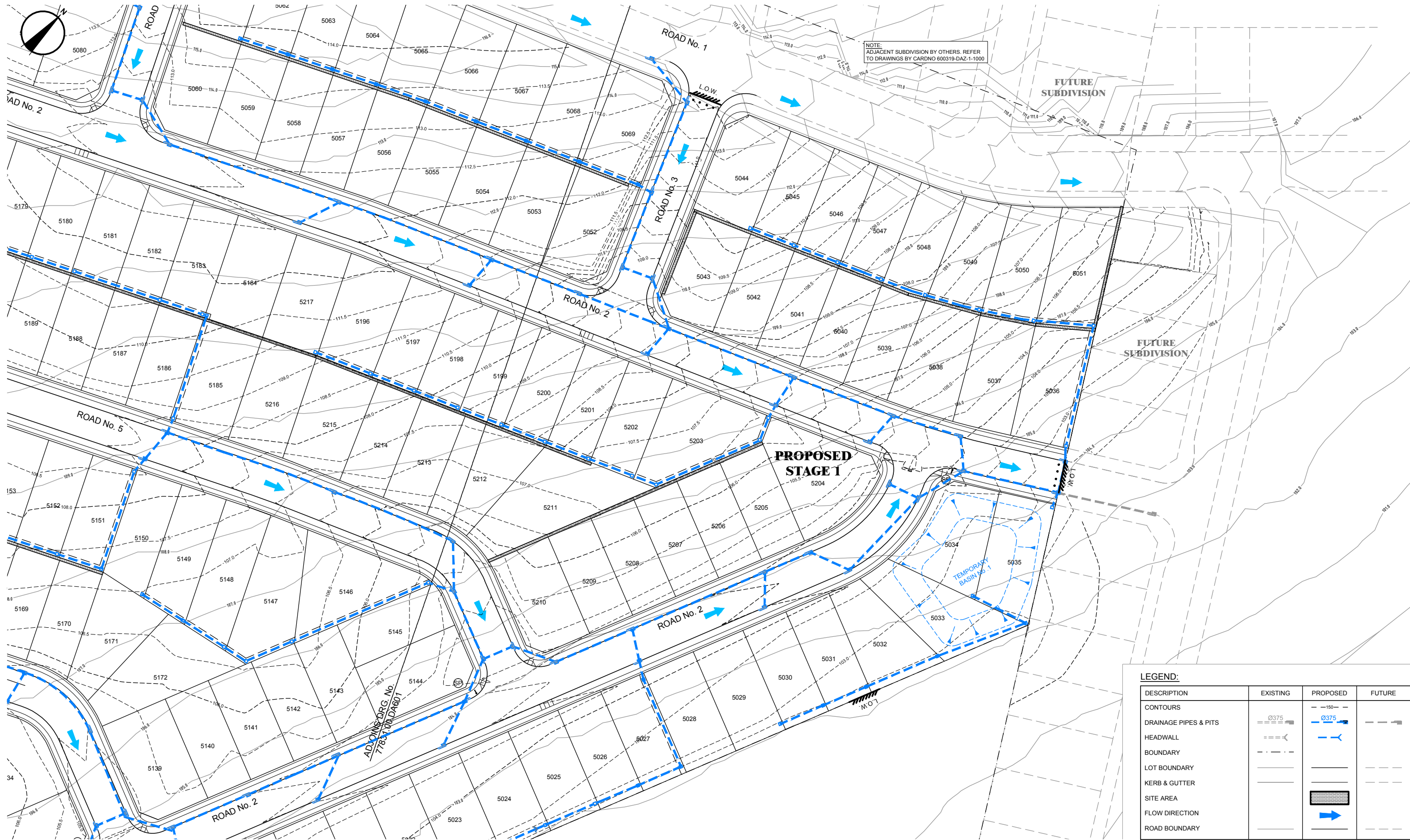
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D Gold Coast +61 7 5578 0222
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LEPPINGTON
STAGE 1
CAMDEN COUNCIL
CONCEPT DRAINAGE PLAN
SHEET 1 OF 6
Drawing No. 77831.00.DA601
Dev. App. No.
Sheet No. 18 of 29

Rev C

Subject to Approval

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PLOT DATE
24 Feb 2015
TIME
16:37:14



CONCEPT DRAINAGE PLAN - STAGE 1 - SHEET 2 OF 6

SCALE 1:500

REVISION	DATE	DES/DT	WVR	APPD
C LAYOUT REVISED. STAGES COMBINED.	24/02/15	LR/PX	N/A	PP
B ADD RETAINING WALL HEIGHTS	10/10/14	MS	-	JH
A INITIAL ISSUE TO COUNCIL FOR DEVELOPMENT APPLICATION	26/09/14	LR/MS	-	PP

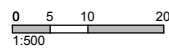
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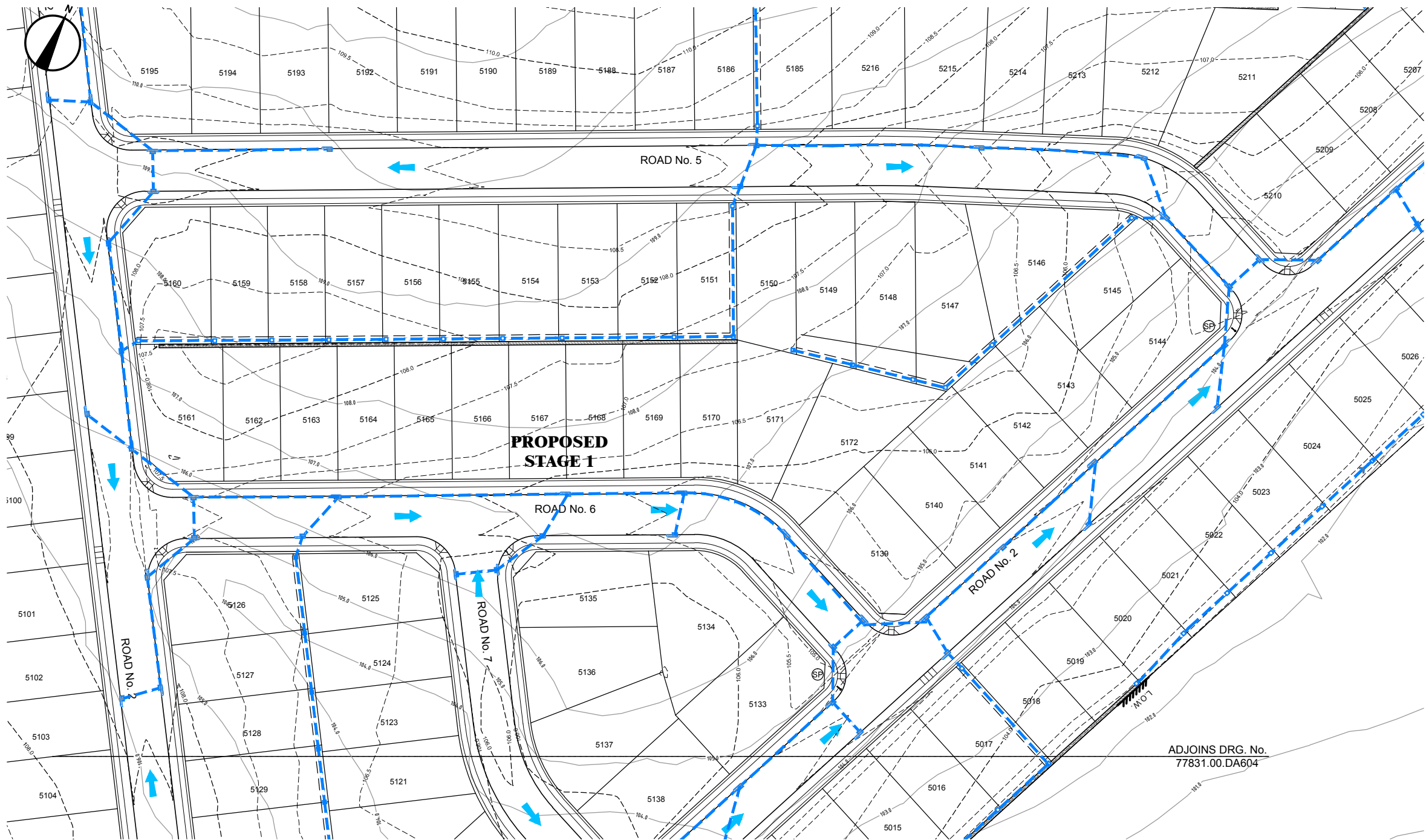
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LEPPINGTON
STAGE 1
CAMDEN COUNCIL
CONCEPT DRAINAGE PLAN
SHEET 2 OF 6
Drawing No. 77831.00.DA602
Dev. App. No.
Sheet No. 19 of 29

Rev C

Subject to Approval

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TIME 16:37:32



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HEADWALL	== > ==	== > ==	== > ==
BOUNDARY	- - - - -	- - - - -	- - - - -
LOT BOUNDARY	- - - - -	- - - - -	- - - - -
KERB & GUTTER	- - - - -	- - - - -	- - - - -
SITE AREA			
FLOW DIRECTION		→	
ROAD BOUNDARY	- - - - -	- - - - -	- - - - -

CONCEPT DRAINAGE PLAN - STAGE 1 - SHEET 3 OF 6
SCALE 1:500

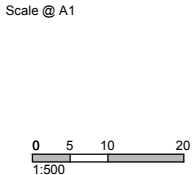
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REVISION	DATE	DES/DT	WVR	APPD
C LAYOUT REVISED. STAGES COMBINED.	24/02/15	LR/PX	N/A	PP
B ADD RETAINING WALL HEIGHTS	10/10/14	MS	-	JH
A INITIAL ISSUE TO COUNCIL FOR DEVELOPMENT APPLICATION	26/09/14	LR/MS	-	PP

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SEPTEMBER 2014



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LEPPINGTON
STAGE 1
CAMDEN COUNCIL
CONCEPT DRAINAGE PLAN
SHEET 3 OF 6
Drawing No. 77831.00.DA603
Dev. App. No.
Sheet No. 20 of 29

Rev C

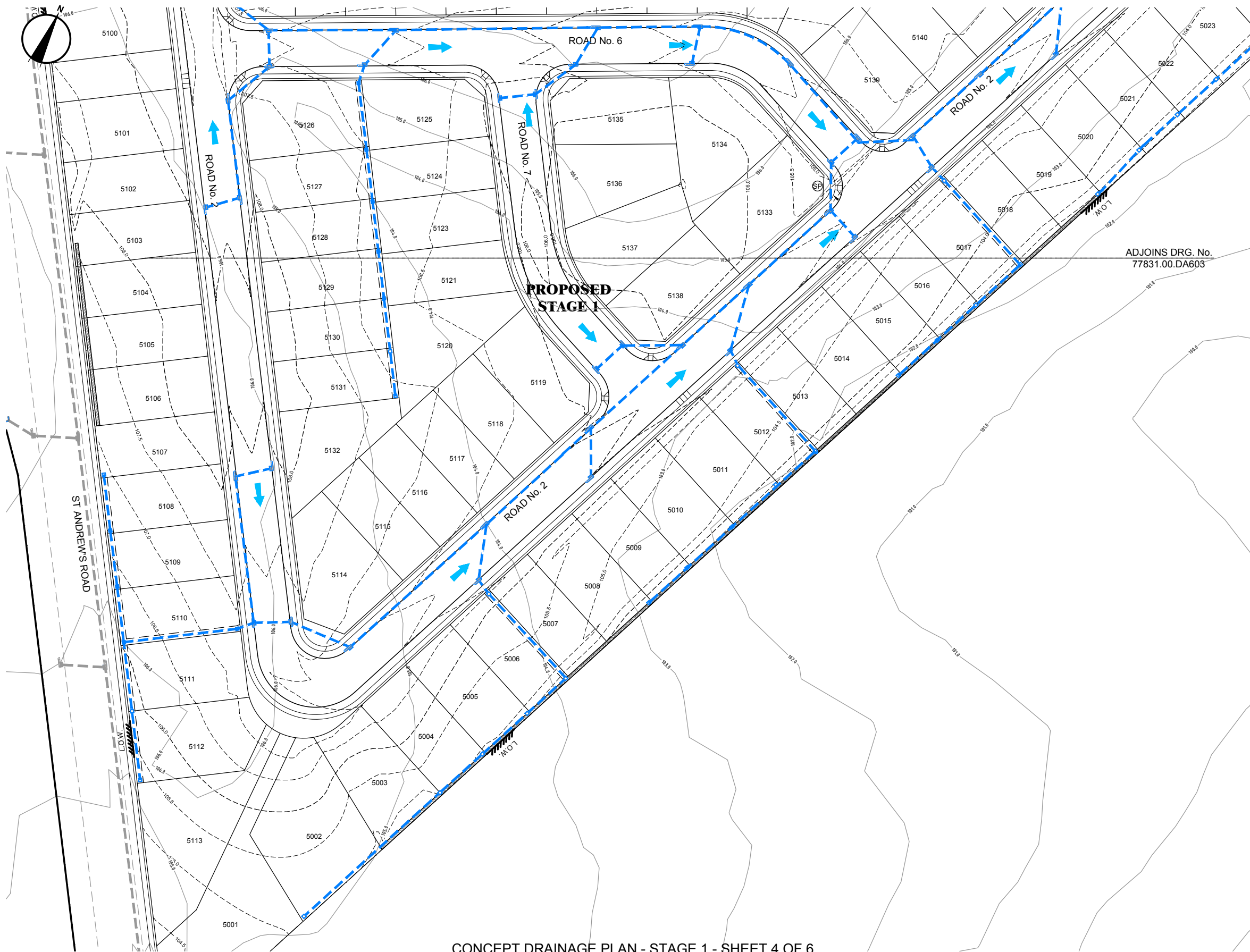
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100 mm ON A3



LEGEND:

DESCRIPTION	EXISTING	PROPOSED	FUTURE
CONTOURS	---150---	---0375---	---
DRAINAGE PIPES & PITS	==0375==	==0375==	---
HEADWALL	==>	==>	---
BOUNDARY	---	---	---
LOT BOUNDARY	---	---	---
KERB & GUTTER	---	---	---
SITE AREA	---	---	---
FLOW DIRECTION	---	---	---
ROAD BOUNDARY	---	---	---

CONCEPT DRAINAGE PLAN - STAGE 1 - SHEET 4 OF 6

SCALE 1:500



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0 5 10 20
1:500

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STAGE 1
CAMDEN COUNCIL
CONCEPT DRAINAGE PLAN
SHEET 4 OF 6
Drawing No. 77831.00.DA604
Dev. App. No.
Sheet No. 21 of 29

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LEGEND:			
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HEADWALL	== >	== >	---
BOUNDARY	---	---	---
LOT BOUNDARY	---	---	---
KERB & GUTTER	---	---	---
SITE AREA			
FLOW DIRECTION		→	
ROAD BOUNDARY	---	---	---

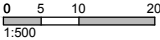
CONCEPT DRAINAGE PLAN - STAGE 1 - SHEET 5 OF 6
SCALE 1:500



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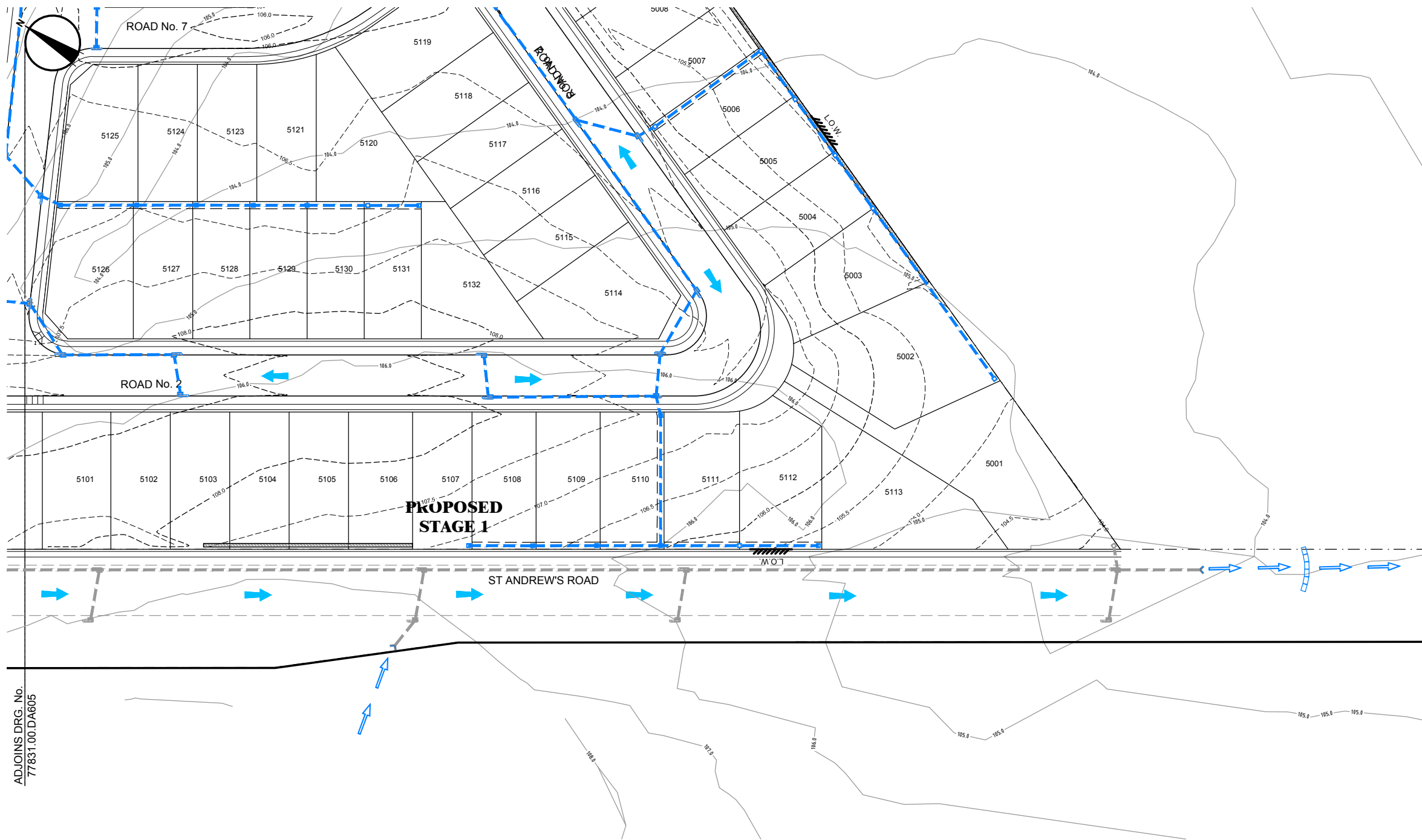
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LEPPINGTON
STAGE 1
CAMDEN COUNCIL
CONCEPT DRAINAGE PLAN
SHEET 5 OF 6
Drawing No. 77831.00.DA606
Dev. App. No.
Sheet No. 22 of 29

Rev C

Subject to Approval


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PLOT DATE
24 Feb 2015
TIME
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CONTOURS	---	---	---
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HEADWALL	== > ==	== > ==	---
BOUNDARY	- . - . - .	---	---
LOT BOUNDARY	---	---	---
KERB & GUTTER	---	---	---
SITE AREA	---	---	---
FLOW DIRECTION	---	---	---
ROAD BOUNDARY	---	---	---

CONCEPT DRAINAGE PLAN - STAGE 1 - SHEET 6 OF 6
SCALE 1:500

REVISION	DATE	DES/DT	WVR	APPD
C LAYOUT REVISED. STAGES COMBINED.	24/02/15	LR/PX	N/A	PP
B ADD RETAINING WALL HEIGHTS	10/10/14	MS	-	JH
A INITIAL ISSUE TO COUNCIL FOR DEVELOPMENT APPLICATION	26/09/14	LR/MS	-	PP




Principal
CORNISH

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Project Manager
P. PARFENOW
Designed
J. HYNES
Drawn
M. NEILSON
Checked
P. PARFENOW
Authorised
P. G. McNAMARA
Date
SEPTEMBER 2014

Scale @ A1
0 5 10 20
1:500

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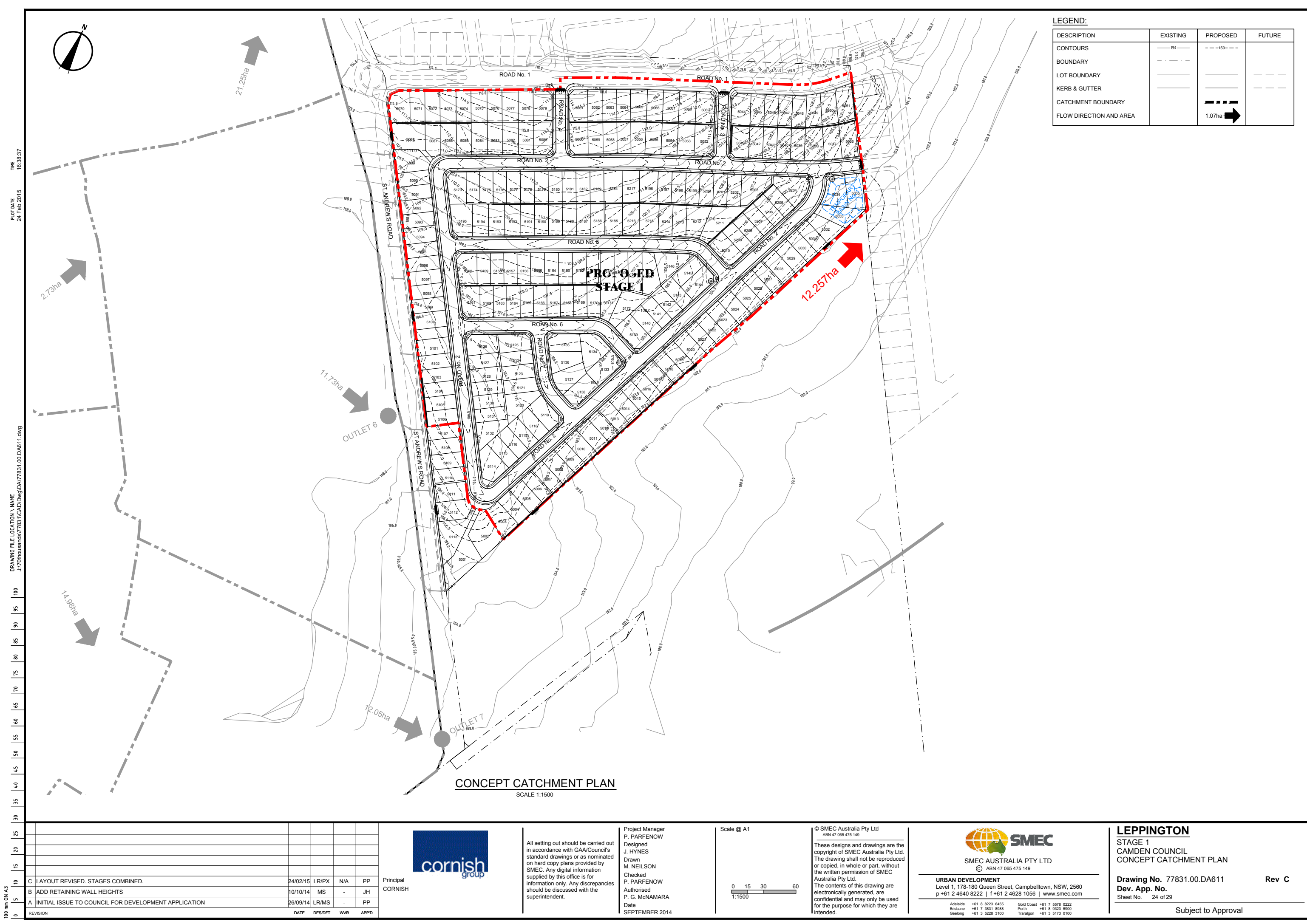
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LEPPINGTON
STAGE 1
CAMDEN COUNCIL
CONCEPT DRAINAGE PLAN
SHEET 6 OF 6
Drawing No. 77831.00.DA606
Dev. App. No.
Sheet No. 23 of 29

Rev C

Subject to Approval



LEGEND:			
DESCRIPTION	EXISTING	PROPOSED	FUTURE
CONTOURS	151	- - -150- - -	
BOUNDARY	- - - - -		
LOT BOUNDARY			- - - - -
KERB & GUTTER			- - - - -
CATCHMENT BOUNDARY			- - - - -
FLOW DIRECTION AND AREA		1.07ha	

TIME 16:38:37
PLOT DATE 24 Feb 2015

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REVISION	DATE	DES/DET	WVR	APPD
C LAYOUT REVISED. STAGES COMBINED.	24/02/15	LR/PX	N/A	PP
B ADD RETAINING WALL HEIGHTS	10/10/14	MS	-	JH
A INITIAL ISSUE TO COUNCIL FOR DEVELOPMENT APPLICATION	26/09/14	LR/MS	-	PP

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0 15 30 60
1:1500

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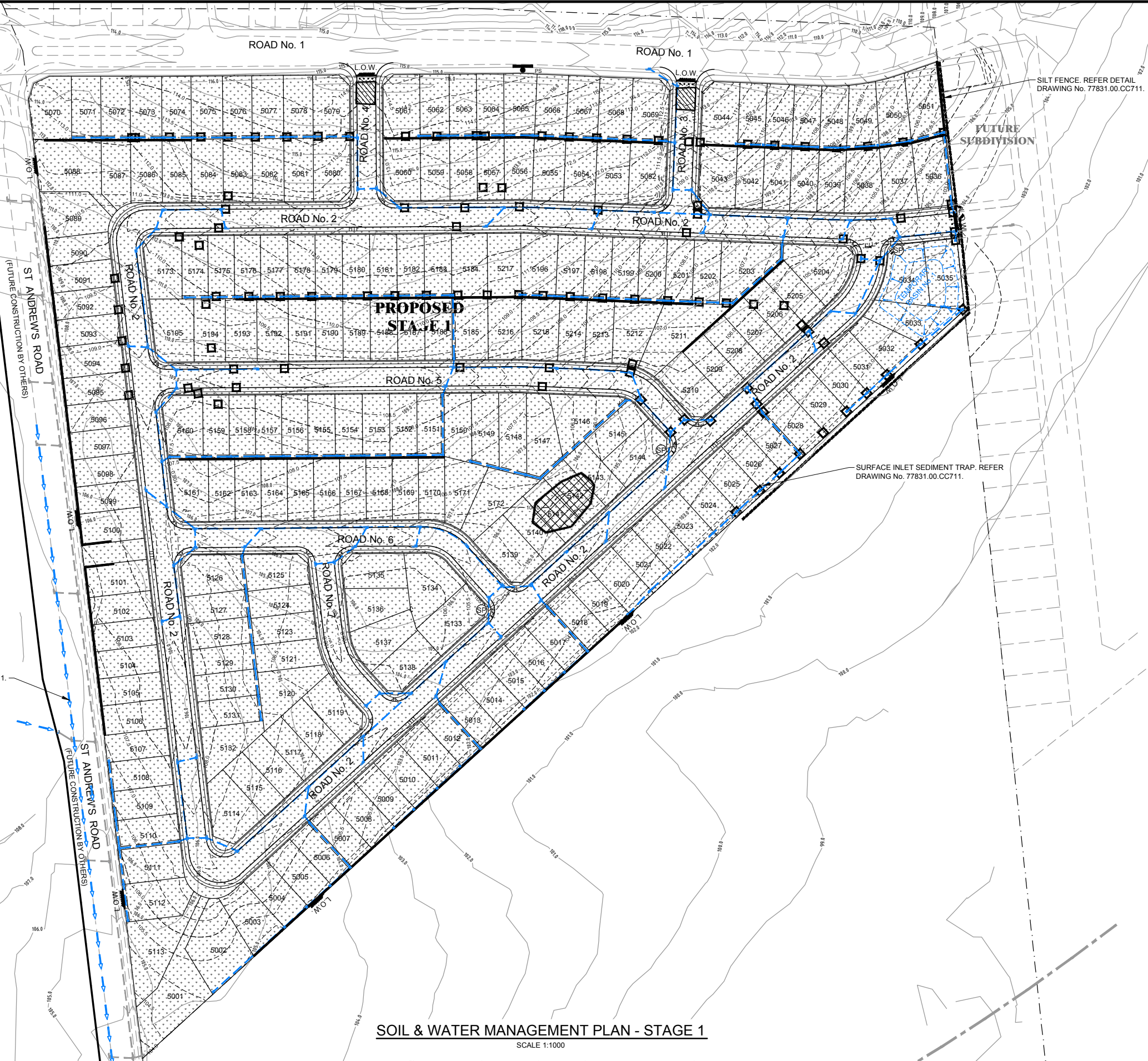
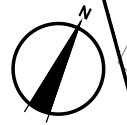
LEPPINGTON
STAGE 1
CAMDEN COUNCIL
CONCEPT CATCHMENT PLAN

Drawing No. 77831.00.DA611
Dev. App. No.
Sheet No. 24 of 29

Rev C

Subject to Approval

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PLOT DATE
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TIME
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LEGEND:		EXISTING	PROPOSED
BATTERS			
CONTOURS			
DRAINAGE PIPES & PITS			
CATCH DRAIN			
SILT FENCE			
DISTURBED AREAS			
STABILISED SITE ACCESS			
POLLUTANT & OSD WARNING SIGN			
SURFACE/KERB INLET SEDIMENT TRAP			
STRAW BALE FILTER			
POSSIBLE STOCKPILE AREA			

SOIL & WATER MANAGEMENT PLAN - STAGE 1
SCALE 1:1000

REVISION	DATE	DES/DET	WVR	APPD
D CATCH DRAIN ADDED	25/02/15	MN	N/A	PP
C LAYOUT REVISED. STAGES COMBINED.	24/02/15	LR/PPX	N/A	PP
B ADD RETAINING WALL HEIGHTS	10/10/14	MS	-	JH
A INITIAL ISSUE TO COUNCIL FOR DEVELOPMENT APPLICATION	26/09/14	LR/MS	-	PP

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P. G. McNAMARA
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SEPTEMBER 2014

Scale @ A1

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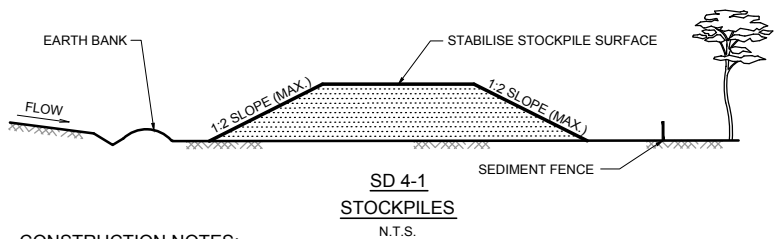
LEPPINGTON
STAGE 1
CAMDEN COUNCIL
SOIL & WATER MANAGEMENT PLAN
Drawing No. 77831.00.DA701
Dev. App. No.
Sheet No. 25 of 29
Rev D
Subject to Approval

TIME
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PLOT DATE
24 Feb 2015

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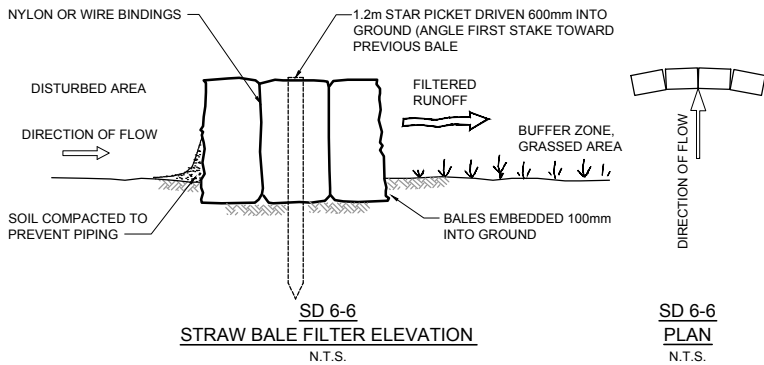
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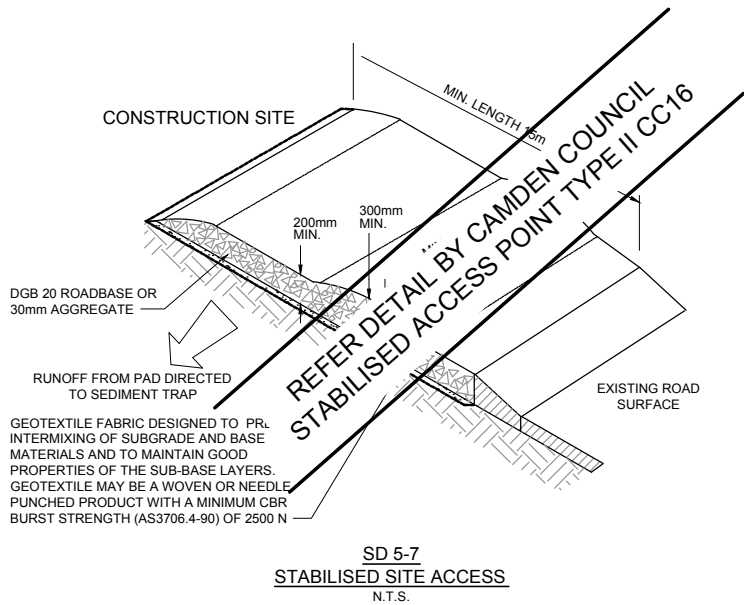
CONSTRUCTION NOTES:

1. LOCATE STOCKPILE AT LEAST 5m FROM EXISTING VEGETATION, CONCENTRATED WATER FLOWS, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS A LOW, FLAT, ELONGATED MOUND.
3. WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. REHABILITATE IN ACCORDANCE WITH THE SWMP/ESCP.
5. CONSTRUCT EARTH BANK (STANDARD DRAWING 5-2) ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND A SEDIMENT FENCE (STANDARD DRAWING 6-7) 1 TO 2m DOWNSLOPE OF STOCKPILE.



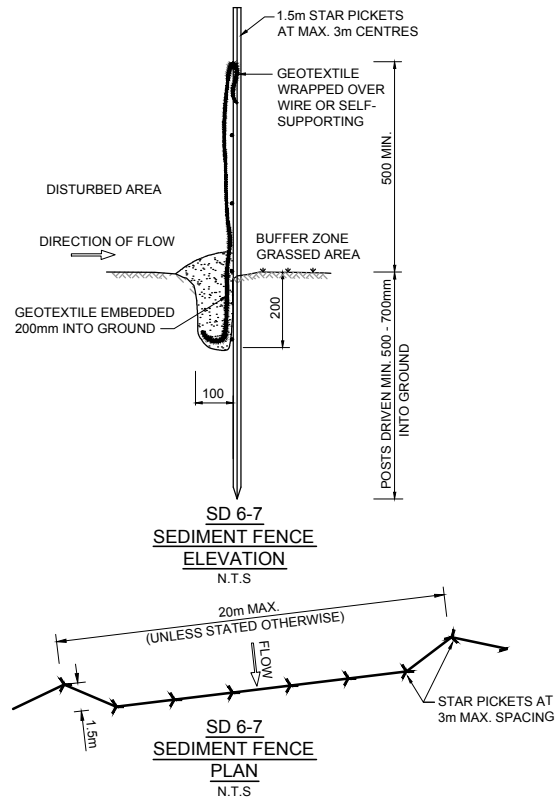
CONSTRUCTION NOTES:

1. CONSTRUCT STRAW BALE FILTER AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE OR AT THE TOE OF A SLOPE.
2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAW TO BE PLACED PARALLEL TO GROUND.
3. MAXIMUM HEIGHT OF FILTER IS ONE BALE.
4. ON SOFT MATERIALS, EMBED EACH BALE IN THE GROUND 75mm TO 100mm AND ANCHOR WITH TWO 1.2m STAR PICKETS. ANGLE THE FIRST STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE. DRIVE STAKES 600mm INTO THE GROUND AND FLUSH WITH THE TOP OF THE BALES.
5. WHERE STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER THE BALES SHOULD BE LOCATED 1.5m TO 2m DOWNSLOPE FROM THE TOE OF THE BATTER.



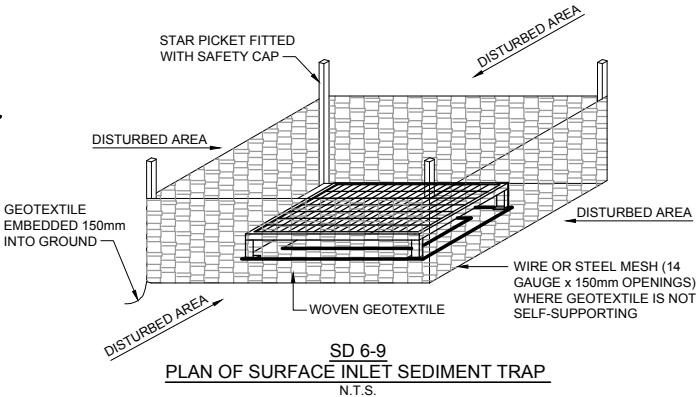
CONSTRUCTION NOTES:

1. STRIP TOPSOIL & LEVEL SITE.
2. COMPACT SUBGRADE.
3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE. MINIMUM LENGTH 15m OR TO BUILDING ALIGNMENT. MINIMUM WIDTH 3m.
5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP.



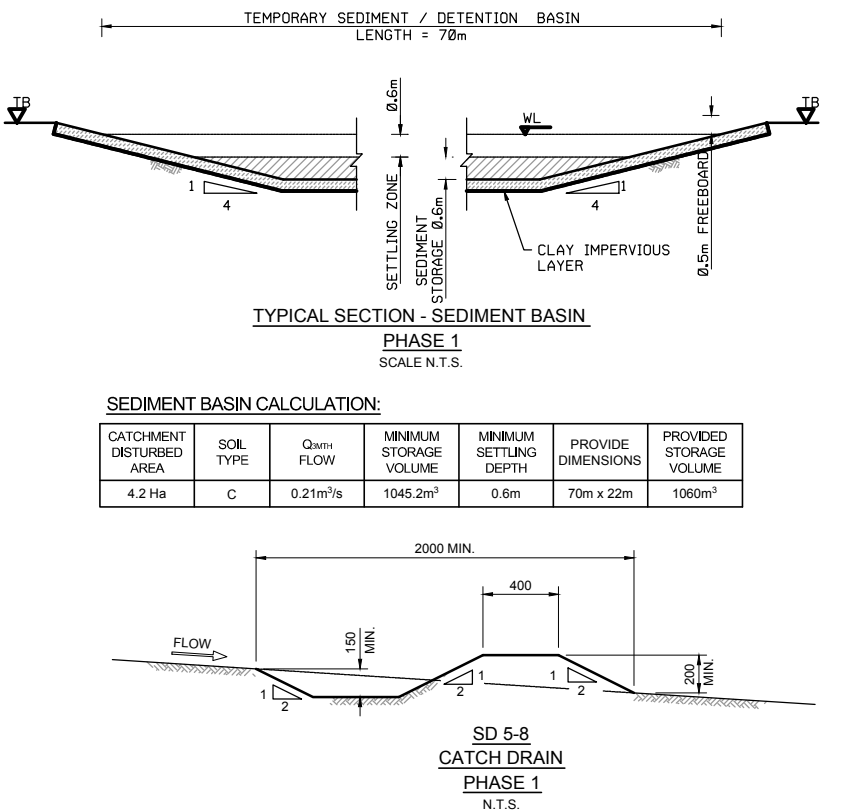
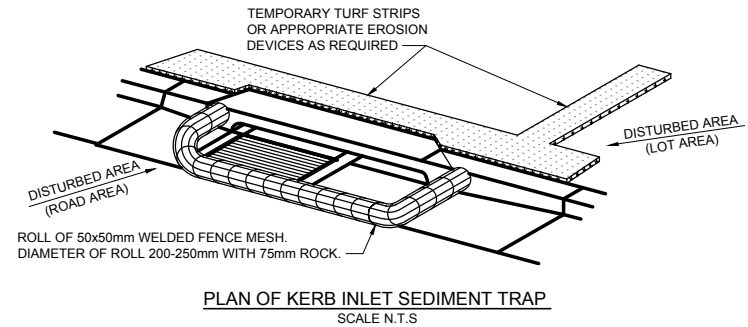
CONSTRUCTION NOTES:

1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE.
2. DRIVE 1.5m LONG STAR PICKETS INTO GROUND, 3m APART.
3. DIG A 200mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
4. BACKFILL TRENCH OVER BASE OF FABRIC.
5. FIX GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
6. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.



CONSTRUCTION NOTES:

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. SUPPORT GEOTEXTILE WITH MESH TIED TO POSTS AT 1m CENTRES.
3. DO NOT COVER INLET WITH GEOTEXTILE.
4. CONSTRUCTION DETAILS ARE SIMILAR TO STANDARD DRAWING SD 6-6 AND SD 6-7

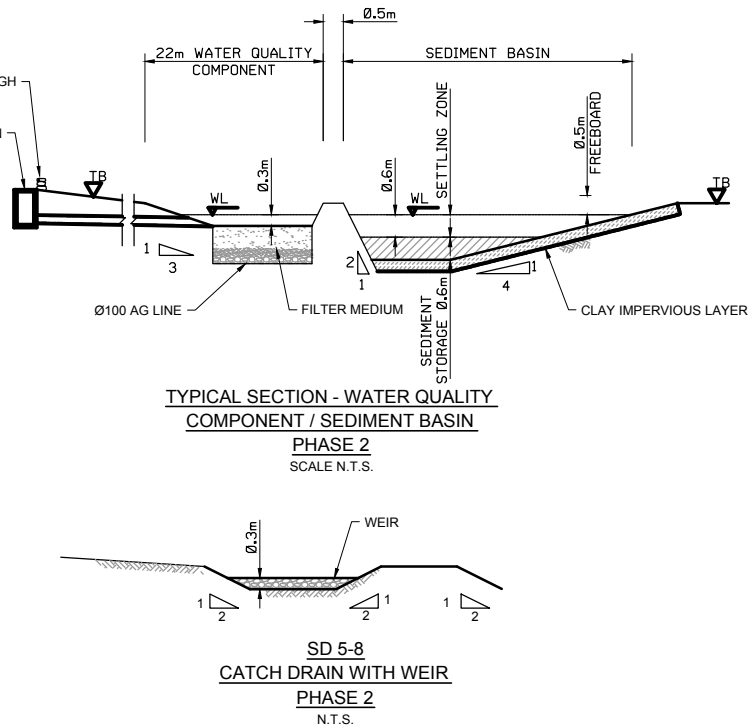


SEDIMENT BASIN CALCULATION:

CATCHMENT DISTURBED AREA	SOIL TYPE	Q _{24hr} FLOW	MINIMUM STORAGE VOLUME	MINIMUM SETTLING DEPTH	PROVIDE DIMENSIONS	PROVIDED STORAGE VOLUME
4.2 Ha	C	0.21m³/s	1045.2m³	0.6m	70m x 22m	1060m³

CONSTRUCTION NOTES:

1. CONSTRUCT ALONG GRADIENT AS SPECIFIED.
2. CHANNEL GRADIENT 1 - 5%.
3. MAXIMUM SPACING BETWEEN BANKS SHALL BE 80m.
4. DRAINS TO BE PARABOLIC OF TRAPEZOIDAL CROSS SECTION NOT V-SHAPED.
5. EARTH BANKS TO BE ADEQUATELY COMPACTED IN ORDER TO PREVENT FAILURE.
6. CONSTRUCTION IS OF A TEMPORARY NATURE AND SHALL BE COMPLETED AT THE END OF A DAYS WORK IMMEDIATELY PRIOR TO RAIN.
7. ALL OUTLETS FROM DISTURBED LANDS ARE TO FEED INTO A SEDIMENT BASIN OR SIMILAR.
8. DISCHARGE RUNOFF COLLECTED FROM UNDISTURBED LANDS ONTO EITHER A STABILISED OR AN UNDISTURBED DISPOSAL SITE WITHIN THE SAME SUBCATCHMENT AREA FROM WHICH THE WATER ORIGINATED.
9. COMPACT WITH A SUITABLE IMPLEMENT IN SITUATIONS WHERE THEY ARE REQUIRED TO FUNCTION FOR MORE THAN FIVE DAYS.
10. EARTH BANKS TO BE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT WILL IMPEDE NORMAL FLOW.



SEDIMENT & EROSION CONTROL

GENERAL NOTES:

1. THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO DISTURBANCE OF THE RELATED CATCHMENT AREA AND TO THE STANDARDS OF THE N.S.W DEPARTMENT OF HOUSING MANAGING URBAN STORMWATER "SOILS AND CONSTRUCTION 4TH EDITION MARCH 2004.
2. TOPSOIL SHALL BE STRIPPED AND STOCKPILED OUTSIDE HAZARD AREAS AS SHOWN ON PLANS. THIS TOPSOIL IS TO BE RESPAID LATER ON AREAS TO BE REVEGETATED AND STABILISED ONLY. (I.E. ALL FOOTPATHS, TOPSOIL SHALL NOT BE RESPAID ON ANY OTHER AREAS UNLESS BATTERS) SPECIFICALLY INSTRUCTED BY THE SUPERINTENDENT. IF STOCKPILES ARE TO REMAIN FOR LONGER THAN 14 DAYS STOCKPILES SHALL BE PROTECTED FROM EROSION BY COVERING THEM WITH A MULCH AND HYDROSEEDING AND, IF NECESSARY, BY LOCATING BANKS OR DRAINS UPSLOPE TO DIVERT THE RUNOFF AROUND THEM. IN SOME CIRCUMSTANCES IT MAY BE NECESSARY TO PLACE BANKS OR DRAINS DOWNSTREAM OF A STOCKPILE TO RETARD SEDIMENT LADEN RUNOFF.
3. THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL SEDIMENT AND EROSION CONTROL DEVICES AND REMOVE ACCUMULATED SILT FROM SUCH DEVICES BEFORE NO MORE THAN 60% OF THEIR CAPACITY IS LOST. ALL THE SILT REMOVED SHALL BE DISPOSED OF AS DIRECTED BY THE SUPERINTENDENT. NO SILT IS TO BE PLACED OUTSIDE THE LIMIT OF WORKS. THE PERIOD FOR MAINTAINING THESE DEVICES SHALL BE AT LEAST UNTIL ALL DISTURBED AREAS ARE REVEGETATED AND FURTHER AS MAY BE DIRECTED BY THE SUPERINTENDENT OR COUNCIL.
4. THE CONTRACTOR SHALL PROVIDE SAND BAGS OR SEDIMENT TRAPS AT 20m CTS ACROSS EACH ROAD GUTTER AS AT COMPLETION OF FOOTPATH FORMATION TO AVOID SEDIMENT LOSS FROM THE ROAD & FOOTPATH AREAS.
5. VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING CONSTRUCTION CONFINING ACCESS WHERE POSSIBLE TO PROPOSED OR EXISTING ROAD ALIGNMENTS.
6. WHEN ANY DEVICES ARE TO BE HANDED OVER TO ROAD & DRAINAGE CONTRACTORS THEY SHALL BE IN A CLEAN AND STABLE CONDITION.
7. THE CONTRACTOR SHALL MAINTAIN ALL REVEGETATED AREAS, INCLUDING WATERING UNTIL FINAL COMPLETION OF WORKS.
8. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL UNTIL FINAL COMPLETION OF WORKS.
9. THE CONTRACTOR MUST COMMENCE REHABILITATION WITHIN A REASONABLE TIME OF ANY SITE REGRADING AND BATTER FORMATION.

WASTE CONTROL:

1. THE CONTRACTOR TO BE RESPONSIBLE FOR WASTE DISPOSAL ON SITE.
2. ALL BUILDING PRODUCTS & CLEARED VEGETATION TO BE REMOVED OFF SITE IN AN APPROVED MANNER TO LICENSED LAND FILL SITE.
3. EQUIPMENT MAINTENANCE & REFUELLING OF CONSTRUCTION VEHICLES TO BE DONE IN A DESIGNATED AREA USING BUNDING AND BEST PRACTICE MANAGEMENT CONTROLS FOR REFUELLING.
4. ALL SPILLS TO BE CLEARED UP IMMEDIATELY.

GEOTECHNICAL NOTES:

1. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY, AND TO THE SATISFACTION OF COUNCIL PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND DURING CONSTRUCTION. MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL IS TO BE UNDERTAKEN ON A REGULAR BASIS & AS PER COUNCIL'S DIRECTION.
2. TESTS SHALL BE UNDERTAKEN ON ANY PROPOSED FILL MATERIALS TO ENSURE THAT THEY DO NOT HAVE A HIGH DISPERSION POTENTIAL AS DEFINED BY THE EMERSON CRUMB/DISPERSION TESTS (AS1289 C8-1980).
3. ALL FILL SHALL BE COMPACTED TO NOT LESS THAN 95% OF STANDARD MAXIMUM DRY DENSITY AT -3% TO +3% OF STANDARD OPTIMUM MOISTURE CONTENT (MAXIMUM FILL HORIZONS OF 150mm TO 200mm). ALL AREAS WHICH HAVE TEST RESULTS LESS THAN 98% STANDARD SHOULD BE REWORKED AND RETESTED TO ENSURE COMPLIANCE, IN ACCORDANCE WITH A.S.A. 1289 TESTS 12 AND 13.
4. ALL FILL SHALL BE COMPACTED AT 100% OF STANDARD AND TESTED IN ACCORDANCE WITH CAMDEN COUNCILS ENGINEERING CONSTRUCTION SPECIFICATION - FEBRUARY 2010, ASSOCIATED GUIDELINES AND THE MST CURRENT EDITION AS 1289; SUCH TESTING TO BE UNDERTAKEN BY A NATA REGISTERED LABORATORY.
5. ALL FILL AREAS TO BE SURVEYED AT STRIPPING AND FINAL STAGES AND LEVELS SHOWN ON PLAN SHADED, (TOGETHER WITH CROSS SECTIONS AT MAXIMUM 20M C/C) AT WORKS-AS-EXECUTED STAGE AND CONTROLLED BY A REGISTERED SURVEYOR. 88B INSTRUMENT REQUIRED FOR ALL LOTS FILLED WITHIN THE BUILDING LINE.
6. ALL EARTHWORKS SHALL BE CONTROLLED AND CERTIFIED BY A N.A.T.A. REGISTERED LABORATORY. TWO COLLATED COPIES OF ALL TEST CERTIFICATES, ACCOMPANIED BY AN OVERALL SITE PLAN, CLEARLY INDICATING THE LOCATION OF EACH TEST AND FILL AREAS ETC., AND THE LABORATORY CERTIFICATE COVERING THE WHOLE OF THE AREA TESTED ARE TO BE FORWARDED TO COUNCIL UPON COMPLETION. TESTING IS TO BE TO LEVEL 1 AS3798 APPENDIX B2(A).
7. ALL RESIDENTIAL LOTS SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH THE LATEST EDITION OF THE GUIDELINES IN THE AUSTRALIAN STANDARD FOR RESIDENTIAL SLABS AND FOOTINGS AS 2870. PROVIDE TWO COPIES OF REPORT TO COUNCIL.

WEIR NOTES:

1. MINIMUM SLOPE ON BASIN FLOOR SHALL BE 1% GRADE FOR WATER QUALITY AND DETENTION BASIN.
2. MAXIMUM PONDING DEPTH IN WATER QUALITY BASIN SHALL BE 0.5M IN ANY STORM.
3. MAXIMUM PONDING DEPTH IN 1% AEP STORM FOR DETENTION BASIN IS 1.5M MAXIMUM.
4. LOW FLOW HAS BEEN DESIGNED TO DRAIN INTO WATER QUALITY BASINS FOR EVENTS OF 3 MONTH TO 1 YEAR FOR WATER QUALITY TREATMENT. THEREFORE LOW FLOW SYSTEM THROUGH THE DETENTION BASIN IS NOT REQUIRED IN THIS CASE.
5. ALL EXPOSED BATTERS AND BASIN AREAS SHALL BE GRASSED.

WATER QUALITY CHECK:

TYPICALLY AS A RULE OF THUMB, 1.5% OF THE CATCHMENT AREA SHALL BE PROVIDED IN A WATER QUALITY DEVICES FOR FILTER MEDIUM, BASED ON THE NATURE OF THE HOUSING PHASE WE ASSUME THAT 100% OF THE CATCHMENT MAY BE DISTURBED AT ANYONE TIME WITH THE REMAINING AREA BEING UNDISTURBED.

THEREFORE TO VERIFY THE MINIMUM AREA OF FILTER MEDIUM: 3.05Ha (DISTURBED AREA OF STAGE 40) X 1.5% X 100 = 458m²



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LEPPINGTON

STAGE 1
CAMDEN COUNCIL
SOIL & WATER MANAGEMENT DETAILS & NOTES

Drawing No. 77831.00.DA711

Rev C

Dev. App. No.
Sheet No. 26 of 29

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TIME
16:39:23
PLOT DATE
24 Feb 2015

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100 mm ON A3
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LINE MARKING & SIGN POSTING LEGEND:

LINE MARKING:

HOLDING LINE (TF)
HOLDING LINE (TB)
HOLDING LINE (TB)
DOUBLE BARRIER LINE (BB)

NOTE:
MARKERS TO BE MONO-DIRECTIONAL
WHITE REFLECTIVE UNLESS NOTED
OTHERWISE.

SIGN POSTING:

GIVE WAY
STOP SIGN
STREET SIGN (CCC SD-R1)
GUIDE POSTS



NOTE:
1. TRAFFIC MANAGEMENT SCHEME SIGN POSTING AND LINE MARKING TO BE IN ACCORDANCE TO R.M.S. (R.T.A.) STANDARD DELINEATION GUIDELINES AND AUSTRALIAN STANDARDS AS 1742.2-2009. SIGNS SHOWN ARE DIAGRAMMATIC ONLY.



LINE MARKING & SIGN POSTING PLAN
SHEET 1 OF 2
SCALE 1:600



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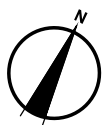
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LEPPINGTON
STAGE 1
CAMDEN COUNCIL
LINE MARKING & SIGN POSTING PLAN
SHEET 1 OF 2
Drawing No. 77831.00.DA811
Dev. App. No.
Sheet No. 27 of 29
Rev C
Subject to Approval



LINE MARKING & SIGN POSTING LEGEND:

LINE MARKING:

HOLDING LINE
HOLDING LINE
HOLDING LINE
DOUBLE BARRIER LINE

NOTE:
MARKERS TO BE MONO- DIRECTIONAL
WHITE REFLECTIVE UNLESS NOTED
OTHERWISE.

SIGN POSTING:

GIVE WAY

STOP SIGN

STREET SIGN (CCC SD-R1)

GUIDE POSTS



NOTE:

1. TRAFFIC MANAGEMENT SCHEME SIGN POSTING AND LINE MARKING TO BE IN ACCORDANCE TO R.M.S. (R.T.A.) STANDARD DELINEATION GUIDELINES AND AUSTRALIAN STANDARDS AS 1742.2-2009. SIGNS SHOWN ARE DIAGRAMMATIC ONLY

C	LAYOUT REVISED. STAGES COMBINED.	24/02/15	LR/PX	N/A	PP
B	ADD RETAINING WALL HEIGHTS	10/10/14	MS	-	JH
A	INITIAL ISSUE TO COUNCIL FOR DEVELOPMENT APPLICATION	26/09/14	LR/MS	-	PP
REVISION		DATE	DES/DT	WWR	APPD

Principal
CORNISH

All setting out should be carried out in accordance with GAA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent

Project Manager
P. PARFENOW
Designed
J. HYNES
Drawn
M. NEILSON
Checked
P. PARFENOW
Authorised
P. G. McNAMARA
Date
SEPTEMBER 2014

Scale @ A1



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LEPPINGTON
STAGE 1
CAMDEN COUNCIL
LINE MARKING & SIGN POSTING PLAN
SHEET 2 OF 2
Drawing No. 77831.00.DA812
Dev. App. No.
Sheet No. 28 of 29

Subject to Approval



TIME 16:39:44
PLOT DATE 24 Feb 2015

DRAWING FILE LOCATION \ NAME
J:\170\house\77831\CAD\DWG\DA\77831.00.DA901.dwg

100 mm ON A3
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100



DEMOLITION PLAN

SCALE 1:1000

DEMOLITION NOTES

- DN1. THE CONTRACTOR SHALL INSPECT THE SITE AND DETERMINE DEMOLITION REQUIRED TO CARRY OUT ALL CIVIL WORKS AS REQUIRED.
DN2. REMOVE FROM SITE (BUT NOT LIMITED TO) ALL CONCRETE PAVEMENT, BRICK DWELLINGS, DRIVEWAYS, KERB AND SLABS, SHEDS, LANDSCAPE WALLS, FENCES, RUBBISH ET.
DN4. CIVIL DEMOLITION AREA SHOWN IS INDICATIVE ONLY AND IF FURTHER AREA IS REQUIRED WILL REQUIRE APPROVAL FROM THE SUPERINTENDENT.

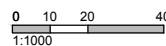
CIVIL DEMOLITION AREA



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LEPPINGTON
STAGE 1
CAMDEN COUNCIL
DEMOLITION PLAN

Drawing No. 77831.00.DA901
Dev. App. No.
Sheet No. 29 of 29

Rev C

Subject to Approval