MELROSE PARK - VICTORIA ROAD SITE

STAGE 2 - LOT AD

CIVIL ENGINEERING PACKAGE - DA

SOURCE : AU.NEARMAP.COM

DRAWING SCHEDULE

DWG NO.	DRAWING TITLE
C01.01	COVER SHEET, DRAWING SCHEDULE AND LOCALITY PLAN
C01.11	SPECIFICATION NOTES
C01.21	EXISTING SITE CONDITIONS
C01.31	GENERAL ARRANGEMENT PLAN - PROPOSED LOT AD (VRS MASTERPLAN)
C01.41	GENERAL ARRANGEMENT PLAN PROPOSED LOT AD (MELROSE MASTERPLAN)
C02.01	CONCEPT SEDIMENT AND SOIL EROSION CONTROL PLAN
C02.11	SEDIMENT AND SOIL EROSION CONTROL DETAILS
C04.01	TYPICAL SECTIONS SHEET 1
C04.02	TYPICAL SECTIONS SHEET 2
C04.11	SITEWORKS AND GRADING PLAN SHEET 1
C04.12	SITEWORKS AND GRADING PLAN SHEET 2
C04.13	SITEWORKS AND GRADING PLAN SHEET 3
C04.14	SITEWORKS AND GRADING PLAN SHEET 4
C04.21	ROAD ALIGNMENT CONTROL PLAN
C04.31	ROAD LONGITUDINAL SECTIONS - SHEET 1
C04.32	ROAD LONGITUDINAL SECTIONS - SHEET 2
C04.33	ROAD LONGITUDINAL SECTIONS - SHEET 3
C04.34	ROAD LONGITUDINAL SECTIONS - SHEET 4
C04.35	ROAD LONGITUDINAL SECTIONS - SHEET 5
C04.36	ROAD LONGITUDINAL SECTIONS - SHEET 6
C04.37	ROAD LONGITUDINAL SECTIONS - SHEET 7
C04.38	ROAD LONGITUDINAL SECTIONS - SHEET 8
C04.39	ROAD LONGITUDINAL SECTIONS - SHEET 9
C04.51	ROAD CROSS SECTIONS - SHEET 1
C04.52	ROAD CROSS SECTIONS - SHEET 2
C04.53	ROAD CROSS SECTIONS - SHEET 3
C04.54	ROAD CROSS SECTIONS - SHEET 4
C04.55	ROAD CROSS SECTIONS - SHEET 5
C04.56	ROAD CROSS SECTIONS - SHEET 6
C04.57	ROAD CROSS SECTIONS - SHEET 7
C04.58	ROAD CROSS SECTIONS - SHEET 8
C04.59	ROAD CROSS SECTIONS - SHEET 9
C04.60	ROAD CROSS SECTIONS - SHEET 10
C04.81	KERB RETURNS - SHEET 1
C04.82	KERB RETURNS - SHEET 2
C04.83	KERB RETURNS - SHEET 3
C04.84	KERB RETURNS - SHEET 4
C06.01	RETAINING WALL ALIGNMENT PLAN
C06.11	RETAINING WALL SECTIONS - SHEET 1
C06.12	RETAINING WALL SECTIONS - SHEET 2
C06.13	RETAINING WALL SECTIONS - SHEET 3
C07.01	STORMWATER DRAINAGE PLAN - SHEET 1
C07.02	STORMWATER DRAINAGE PLAN - SHEET 2
C07.03	STORMWATER DRAINAGE PLAN - SHEET 3
C07.04	STORMWATER DRAINAGE PLAN - SHEET 4
C07.11	STORMWATER LONGITUDINAL SECTIONS SHEET 1
C07.31	STORMWATER MANAGEMENT DEVICES - OSD
C07.91	CATCHMENT PLAN
C08.01	PAVEMENT PLAN SHEET 1
C08.02	PAVEMENT PLAN SHEET 2
C08.03	PAVEMENT PLAN SHEET 3
C08.04	PAVEMENT PLAN SHEET 4
C08.61	SWEPT PATHS PLAN - SHEET 1
C08.62	SWEPT PATHS PLAN - SHEET 2
C08.63	SWEPT PATHS PLAN - SHEET 3
C08.64	SWEPT PATHS PLAN - SHEET 4
C08.65	SWEPT PATHS PLAN - SHEET 5
C10.01	DETAILS - SHEET 1
C10.02	DETAILS - SHEET 2

DRAWN: A. MARGARIS DESIGNED: P. SUTTON JOB MANAGER: M. RICHARDS VERIFIER: M. RICHARDS

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
1	ISSUED FOR DEVELOPMENT APPLICATION	AP		RM	25.05.18
2	ISSUED FOR DEVELOPMENT APPLICATION	AP		RM	28.05.18

CLIENT: PAYCE

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PROJECT MANAGER: m PROJECTS

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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
MELROSE PARK NSW
VICTORIA ROAD SITE

STAGE 2 - LOT AD - DA PACKAGE

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

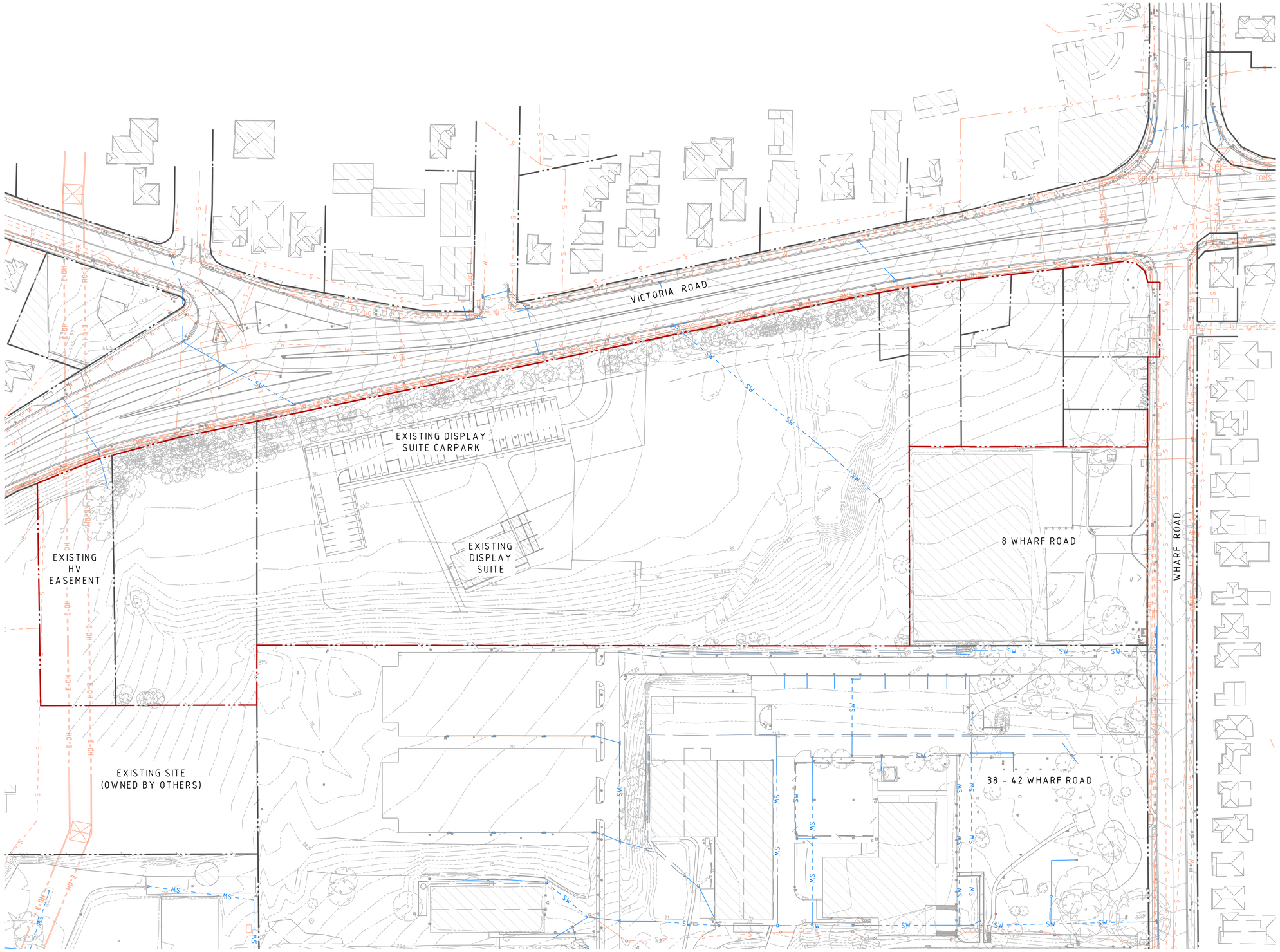
COVER SHEET, DRAWING SCHEDULE AND LOCALITY PLAN

JOB NUMBER-STAGE-SUBSTAGE-PHASE: 150077-02-02-DA

DRAWING NUMBER: C01.01 REVISION: 2

DRAWING SHEET SIZE = A1

Date : 29-5-18 9:23am Plotted By : APaciban Found : \\ne-revitrev\ft\2015\150077 - 44 wharf road, melrose park\c-drawings\d-northrop\C-CIVILS-CURRENT CAD FILES\DA\STAGE 2 - LOT AD\150077-02-02-DA-C01.01_COVER SHEET.dwg



LEGEND

- EXISTING BOUNDARY LINE
- EXISTING VRS SITE BOUNDARY
- EXISTING SERVICES
- EXISTING STORMWATER
- EXISTING CONTOURS

GENERAL NOTES:

1. SURVEY SUPPLIED BY:
   - 1.1. NAME: LTS LOCKLEY
   - 1.2. DATE: 16/12/2014
   - 1.3. REF NO: 41367
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

NOT FOR CONSTRUCTION

DRAWN: A. MARGARIS
DESIGNED: P. SUTTON
JOB MANAGER: M. RICHARDS
VERIFIER: M. RICHARDS

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1	ISSUED FOR DEVELOPMENT APPLICATION	AP		RM	25.05.18
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CLIENT: PAYCE

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SCALE 1:800@ A1 (0 10 20 30 40m)

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

PROJECT: MELROSE PARK NSW VICTORIA ROAD SITE

STAGE 2 - LOT AD - DA PACKAGE

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

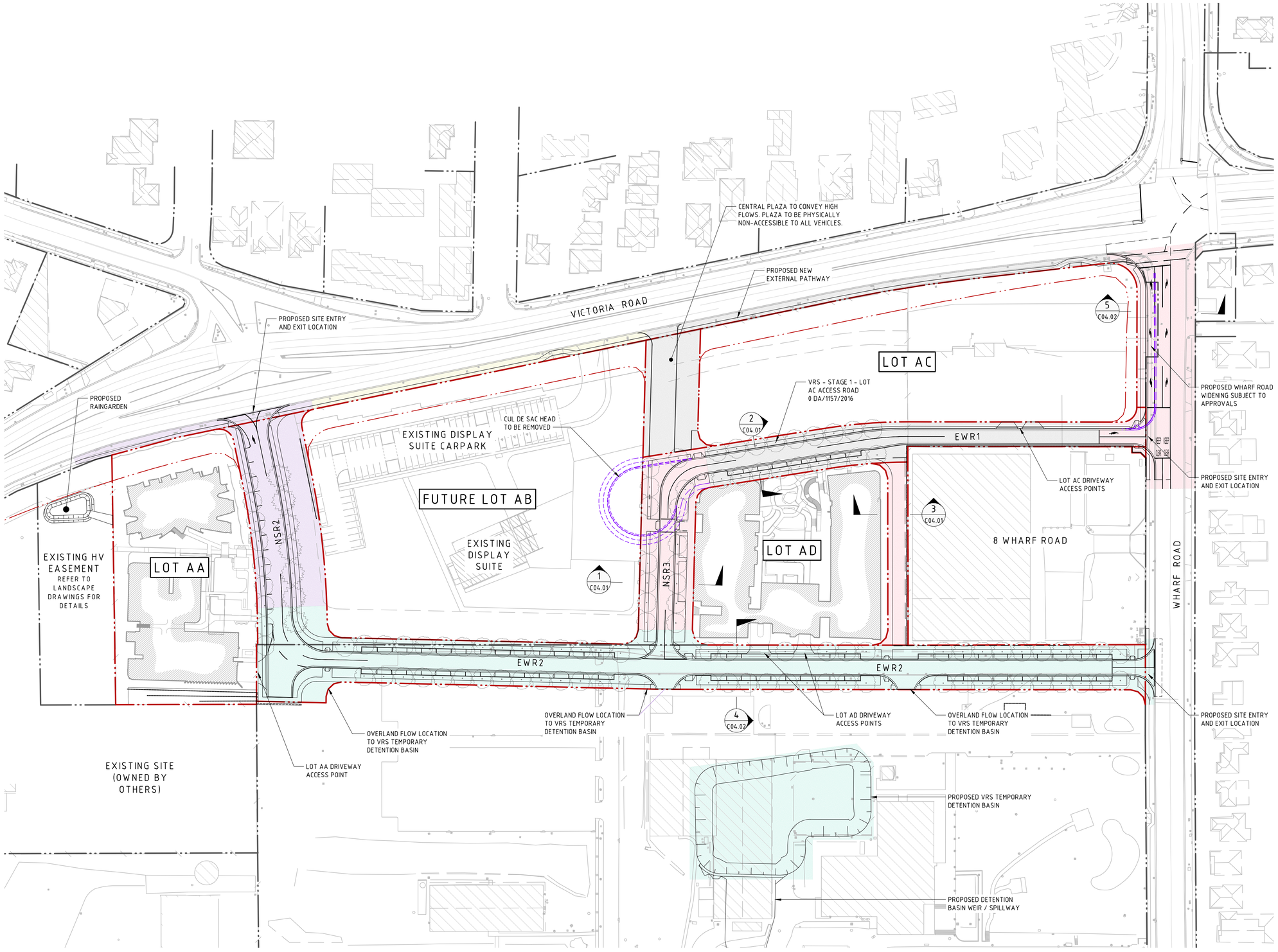
EXISTING SITE CONDITIONS

JOB NUMBER-STAGE-SUBSTAGE-PHASE: 150077-02-02-DA

DRAWING NUMBER: C01.21 REVISION: 2

DRAWING SHEET SIZE = A1

Date : 28-5-18 3:56pm Plotted By : APaciben Found : \\nn-revitrevit\2015\150077 - 44 wharf road, melrose park\c-drawings\d-northrop\C-CIVIL\3-CURRENT CAD FILES\DA\STAGE 2 - LOT AD\150077-02-02-DA-C01.21_EXISTING SITE.dwg



LEGEND

- EXISTING BOUNDARY LINE
- PROPOSED BOUNDARY LINE
- PROPOSED VRS WORKS
- LOT AA PUBLIC DOMAIN (SUBJECT TO APPROVAL)
- LOT AB PUBLIC DOMAIN (SUBJECT TO APPROVAL)
- LOT AC PUBLIC DOMAIN (APPROVED WORK)
- LOT AD PUBLIC DOMAIN (SUBJECT TO APPROVAL)
- EWR2 PUBLIC DOMAIN (SUBJECT TO APPROVAL)

NOT FOR CONSTRUCTION

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3	RE-ISSUED FOR DEVELOPMENT APPLICATION	AP		PS	21.08.18
4	RE-ISSUED FOR DEVELOPMENT APPLICATION	AP		PS	22.08.18

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PROJECT: MELROSE PARK NSW VICTORIA ROAD SITE

STAGE 2 - LOT AD - DA PACKAGE

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

GENERAL ARRANGEMENT PLAN - PROPOSED LOT AD (VRS MASTERPLAN)

JOB NUMBER-STAGE-SUBSTAGE-PHASE: 150077-02-02-DA

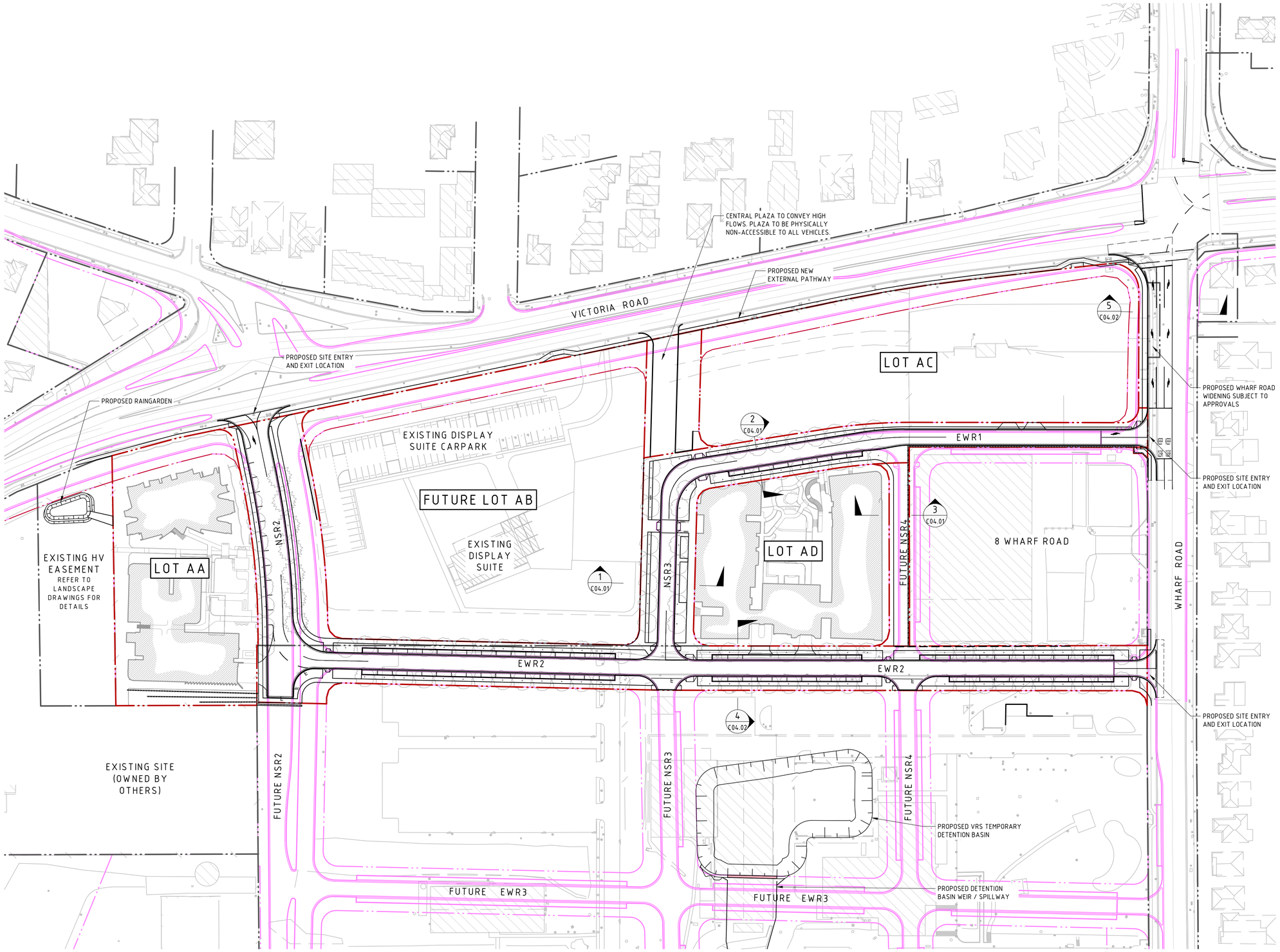
DRAWING NUMBER: C01.31 — REVISION: 4

DRAWING SHEET SIZE = A1

DRAWN: A. MARGARIS — DESIGNED: P. SUTTON — JOB MANAGER: M. RICHARDS — VERIFIER: M. RICHARDS

Found : K:\2015\150077 - 44 wharf road, melrose park\c-drawings\d-northrop\C-CIVIL\3-CURRENT CAD FILES\DA\STAGE 2 - LOT AD\150077-02-02-DA-C01.31_GENERAL ARRANGEMENT.dwg

Plotted By : APaciben — Date : 22-8-18 4:04pm



LEGEND

- EXISTING BOUNDARY LINE
- PROPOSED BOUNDARY LINE
- PROPOSED VRS WORKS
- PROPOSED MELROSE PARK MASTERPLAN BOUNDARY
- PROPOSED MELROSE PARK MASTERPLAN DESIGN

DRAWN: A. MARGARIS
DESIGNED: P. SUTTON
JOB MANAGER: M. RICHARDS
VERIFIER: M. RICHARDS

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PROJECT: MELROSE PARK NSW VICTORIA ROAD SITE

STAGE 2 - LOT AD - DA PACKAGE

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

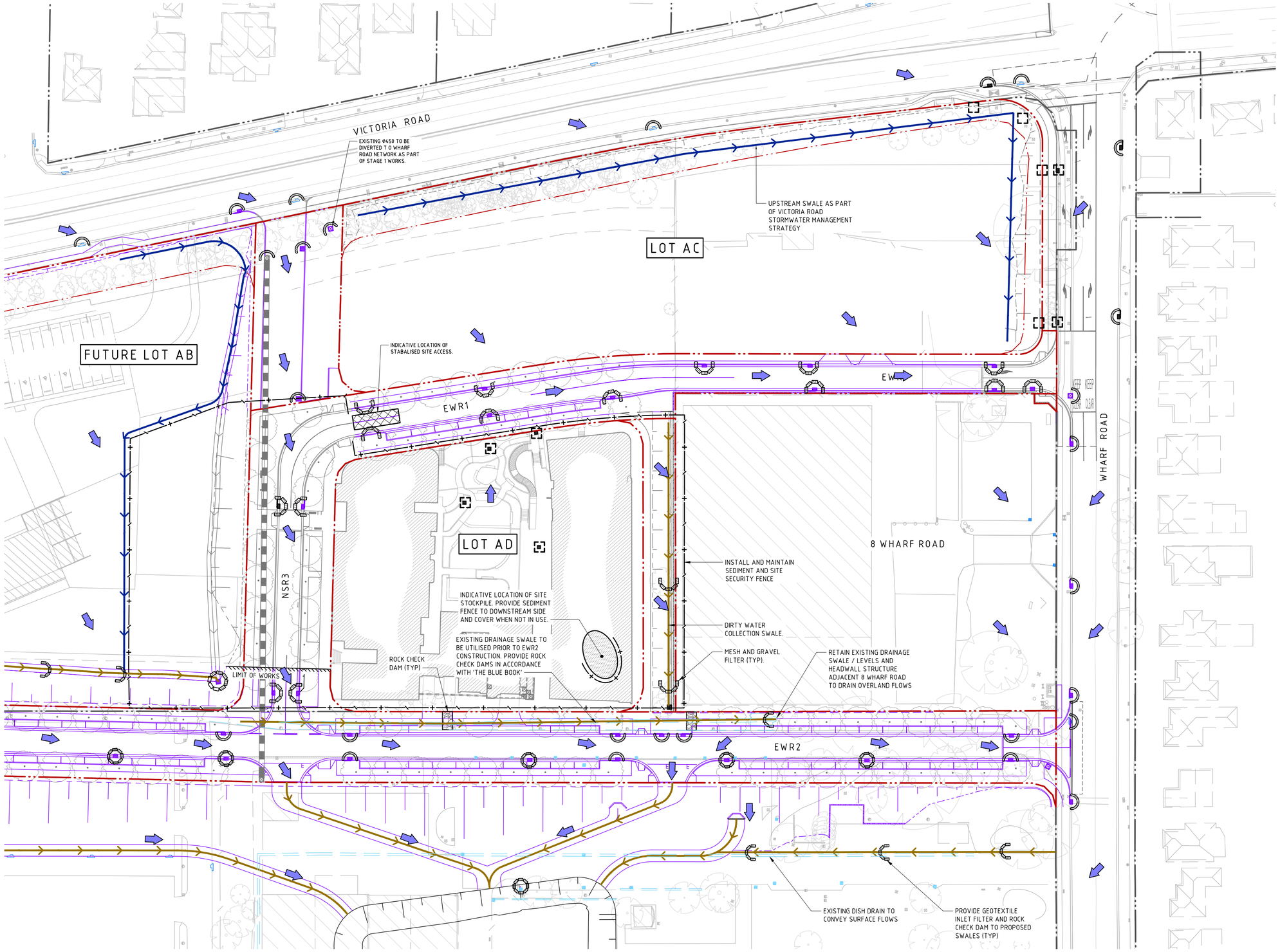
GENERAL ARRANGEMENT PLAN PROPOSED LOT AD (MELROSE MASTERPLAN)

JOB NUMBER-STAGE-SUBSTAGE-PHASE: 150077-02-02-DA

DRAWING NUMBER: C01.41 — REVISION: 4

DRAWING SHEET SIZE = A1

Date : 22-8-18 4:04pm Plotted By : APaciben Found : K:\2015\150077 - 44 wharf road, melrose park\c-drawings\d-northrop\C-CIVIL\3-CURRENT CAD FILES\DA\STAGE 2 - LOT AD\150077-02-02-DA-C01.41_MASTERPLAN.dwg



LEGEND

- EXISTING BOUNDARY LINE
- PROPOSED BOUNDARY LINE
- VRS ADJACENT STAGE WORKS
- SECURITY/SEDIMENT FENCE
- WIRE MESH AND GRAVEL SEDIMENT FILTER
- GEOTEXTILE INLET FILTER
- DIVERSION DRAIN/BUND (CLEAN)
- DIVERSION DRAIN (DIRTY)
- OVERLAND FLOW
- STABILISED SITE ACCESS
- STOCKPILE
- EXISTING CONTOURS

SEDIMENT AND SOIL EROSION

1. REFER SPECIFICATIONS NOTES FOR SEDIMENT AND SOIL EROSION CONTROL GENERAL REQUIREMENTS.
2. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
3. 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.
4. CONTRACTOR TO PROVIDE 'WIRE MESH AND GRAVEL SEDIMENT FILTER' TO ALL PAVED / ROAD AREAS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'.
5. CONTRACTOR TO PROVIDE 'GEOTEXTILE INLET FILTER TRAPS' TO ALL STORMWATER DRAINAGE INLETS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'

NOT FOR CONSTRUCTION

VERIFIER: M. RICHARDS
JOB MANAGER: M. RICHARDS
DESIGNED: P. SUTTON
DRAWN: A. MARGARIS

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SCALE 1:500@ A1 — 0 5 10 15 20 25m

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PROJECT: MELROSE PARK NSW VICTORIA ROAD SITE

STAGE 2 - LOT AD - DA PACKAGE

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

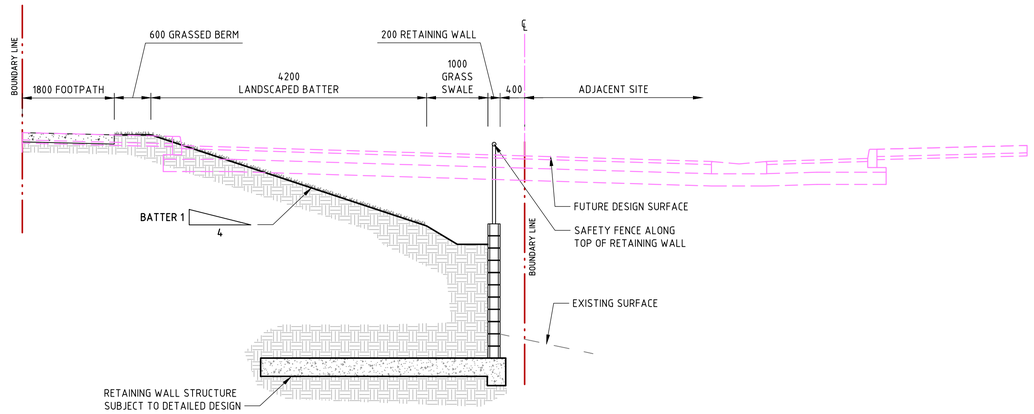
CONCEPT SEDIMENT AND SOIL EROSION CONTROL PLAN

JOB NUMBER-STAGE-SUBSTAGE-PHASE: 150077-02-02-DA

DRAWING NUMBER: C02.01 — REVISION: 4

DRAWING SHEET SIZE = A1

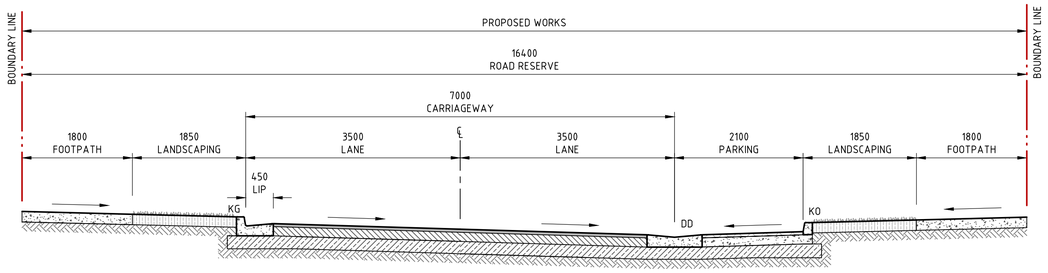
Date : 22-8-18 4:05pm Plotted By : APaciben Found : K:\2015\150077 - 44 wharf road, melrose park\c-drawings\d-northrop\C-CIVIL\3-CURRENT CAD FILES\DA\STAGE 2 - LOT AD\150077-02-02-DA-C02.01_SED ERO.dwg



TYPICAL SECTION - RETAINING WALL RW001

SECTION 3 C013 / 3 C014

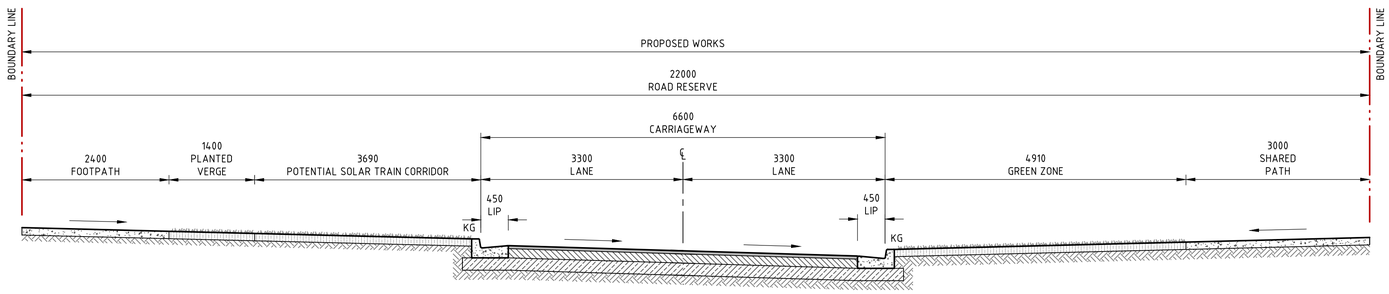
SCALE 1:50



TYPICAL SECTION - EAST WEST ROAD 1 (EWR1)

SECTION 2 C013 / 2 C014

SCALE 1:50



TYPICAL SECTION - NORTH SOUTH ROAD 3 (NSR3)

SECTION 1 C013 / 1 C014

SCALE 1:50

DRAWN: A. MARGARIS DESIGNED: P. SUTTON JOB MANAGER: M. RICHARDS VERIFIER: M. RICHARDS

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PROJECT: MELROSE PARK NSW VICTORIA ROAD SITE

STAGE 2 - LOT AD - DA PACKAGE

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

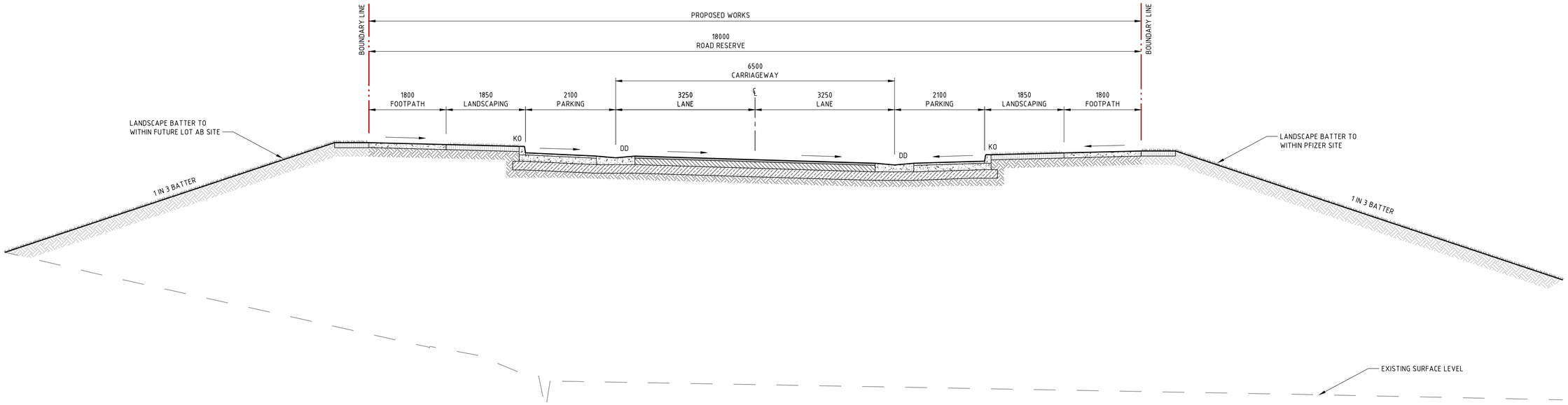
TYPICAL SECTIONS SHEET 1

JOB NUMBER-STAGE-SUBSTAGE-PHASE: 150077-02-02-DA

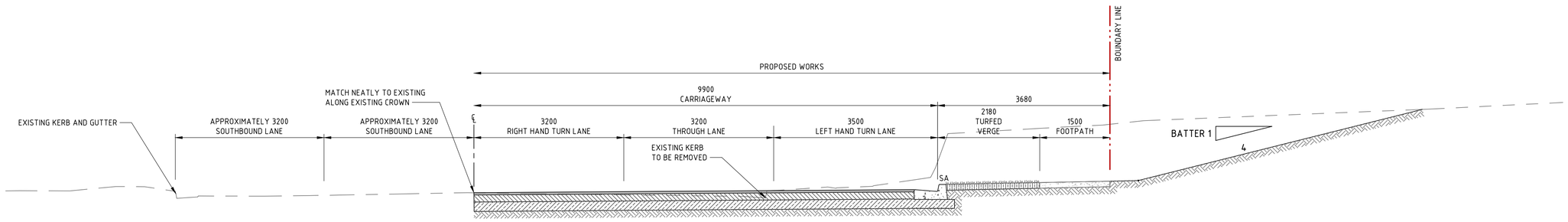
DRAWING NUMBER: C04.01 REVISION: 2

DRAWING SHEET SIZE = A1

Date : 28-5-18 3:57pm Plotted By: APaciban Found : \\nrc-revit\revit\2016\150077 - 44 wharf road, melrose park\c-drawings\d-northrop\C-CIVIL\3-CURRENT CAD FILES\DA\STAGE 2 - LOT AD\150077-02-02-DA-C04.01_TYP SECTIONS.dwg



TYPICAL SECTION - EAST WEST ROAD 2 (EWR2)



TYPICAL SECTION - WHARF ROAD

SECTION 5 (C013) 5 (C014)

SCALE 1:50

NOT FOR CONSTRUCTION

DRAWN: A. MARGARIS DESIGNED: P. SUTTON JOB MANAGER: M. RICHARDS VERIFIER: M. RICHARDS

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PROJECT: MELROSE PARK NSW VICTORIA ROAD SITE

STAGE 2 - LOT AD - DA PACKAGE

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

TYPICAL SECTIONS SHEET 2

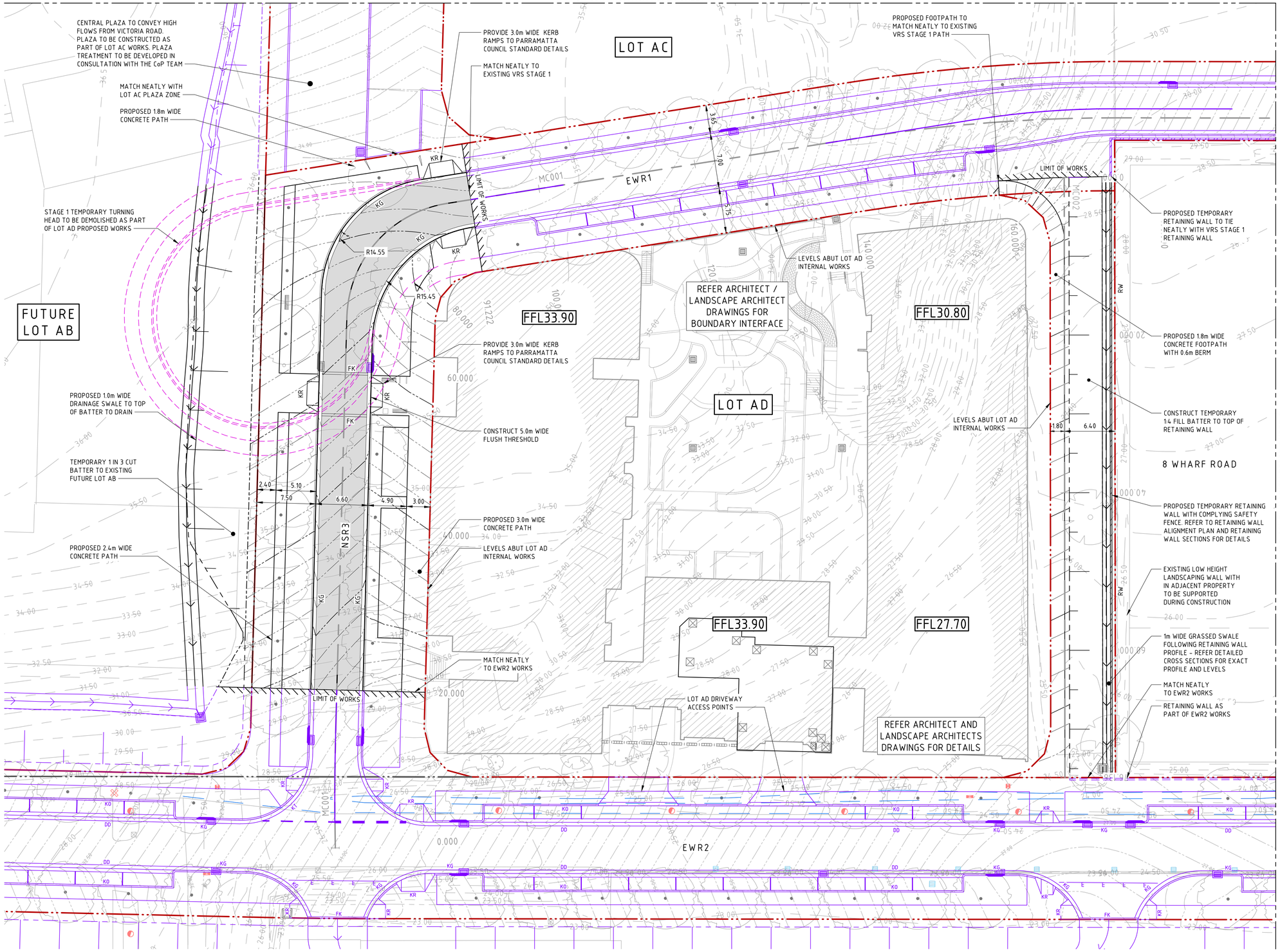
JOB NUMBER-STAGE-SUBSTAGE-PHASE: 150077-02-02-DA

DRAWING NUMBER: C04.02 REVISION: 2

DRAWING SHEET SIZE = A1

Date : 28-5-18 3:57pm Plotted By : APaciban Found : \\ns-revitrevit\2015\150077 - 44 wharf road, melrose park\c-drawings\d-northrop\C-CIVIL\3-CURRENT CAD FILES\DA\STAGE 2 - LOT AD\150077-02-02-DA-C04.01_TYP SECTIONS.dwg

FOR CONTINUATION REFER SHEET 1



LEGEND

	EXISTING BOUNDARY LINE
	PROPOSED BOUNDARY LINE
	PROPOSED ROAD EASEMENT LINE
	PROPOSED VRS ROADS WORKS
	VRS ADJACENT STAGE WORKS
	PROPOSED KERB
KG	KERB AND GUTTER
VC	VEHICULAR CROSSING
KR	KERB RAMP
	BALUSTRADE
RL XX.XX	PROPOSED SPOT HEIGHT
RW	RETAINING WALL - REFER TO 'RETAINING WALL ALIGNMENT PLAN' AND 'RETAINING WALL SECTIONS'
	BIORETENTION
XX.XX	100mm CONTOURS
LIMIT OF WORKS	LIMIT OF WORKS (L.O.W)
FFLXX.XX	PROPOSED FINISHED FLOOR LEVEL
	DRAINAGE SWALE

GENERAL NOTES:

1. REFER SPECIFICATIONS NOTES FOR SITEWORKS GENERAL REQUIREMENTS.
2. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
3. CAD FILES TO BE SUPPLIED IN AUTOCAD FORMAT FOR SETOUT PURPOSES (UPON REQUEST).
4. REFER 'RETAINING WALL PLAN' FOR RETAINING WALL INFORMATION.
5. THIS DRAWING TO BE READ IN CONJUNCTION WITH 'ROAD ALIGNMENT CONTROL PLAN' AND 'ROAD LONGITUDINAL SECTIONS' AND 'ROAD CROSS SECTIONS' AND 'KERB RETURNS' AND 'BOUNDARY SETOUT PLAN AND SECTIONS'.

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
1	ISSUED FOR DEVELOPMENT APPLICATION	AP		RM	25.05.18
2	ISSUED FOR DEVELOPMENT APPLICATION	AP		RM	28.05.18
3	ISSUED FOR DEVELOPMENT APPLICATION	AP		PS	07.08.18
4	RE-ISSUED FOR DEVELOPMENT APPLICATION	AP		PS	21.08.18
5	RE-ISSUED FOR DEVELOPMENT APPLICATION	AP		PS	22.08.18

CLIENT: PAYCE

DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

PROJECT MANAGER: m PROJECTS

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

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: MELROSE PARK NSW VICTORIA ROAD SITE

STAGE 2 - LOT AD - DA PACKAGE

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

SITEWORKS AND GRADING PLAN SHEET 1

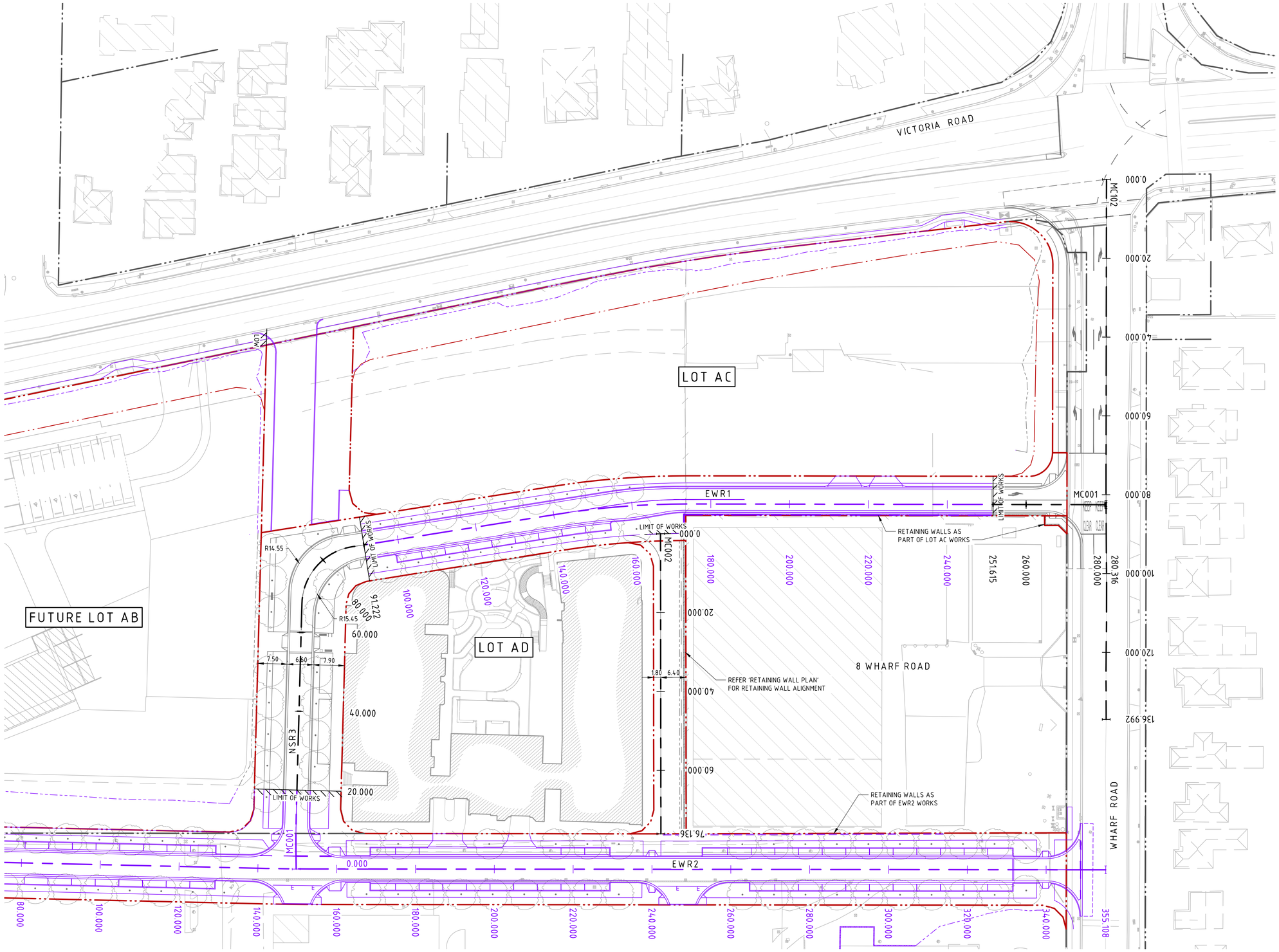
JOB NUMBER-STAGE-SUBSTAGE-PHASE: 150077-02-02-DA

DRAWING NUMBER: C04.11 REVISION: 5

DRAWING SHEET SIZE = A1

DRAWN: A. MARGARIS DESIGNED: P. SUTTON JOB MANAGER: M. RICHARDS VERIFIER: M. RICHARDS

Found : K:\2015\150077 - 44 wharf road, melrose park\c-drawings\d-northrop\C-CIVIL\3-CURRENT CAD FILES\DA\STAGE 2 - LOT AD\150077-02-02-DA-C04.11_SITEWORKS.dwg Plotted By : APaciban Date : 22-8-18 4:05pm



LEGEND

	EXISTING BOUNDARY LINE
	PROPOSED BOUNDARY LINE
	PROPOSED VRS WORKS
	VRS ADJACENT STAGE WORKS
	CONTROL LINE
CH0.000	CHAINAGE
TC0.000	TANGENT POINT

GENERAL NOTES:

1. REFER 'RETAINING WALL ALIGNMENT PLAN' AND 'RETAINING WALL SECTIONS' FOR RETAINING WALL INFORMATION.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH 'ROAD LONGITUDINAL SECTIONS' AND 'ROAD CROSS SECTIONS' AND 'KERB RETURNS'.

NOT FOR CONSTRUCTION

DRAWN: A. MARGARIS
DESIGNED: P. SUTTON
JOB MANAGER: M. RICHARDS
VERIFIER: M. RICHARDS

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
1	ISSUED FOR DEVELOPMENT APPLICATION	AP		RM	25.05.18
2	ISSUED FOR DEVELOPMENT APPLICATION	AP		RM	28.05.18
3	RE-ISSUED FOR DEVELOPMENT APPLICATION	AP		PS	21.08.18
4	RE-ISSUED FOR DEVELOPMENT APPLICATION	AP		PS	22.08.18

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SCALE 1:500@ A1 — 0 5 10 15 20 25m

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

PROJECT: MELROSE PARK NSW VICTORIA ROAD SITE

STAGE 2 - LOT AD - DA PACKAGE

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

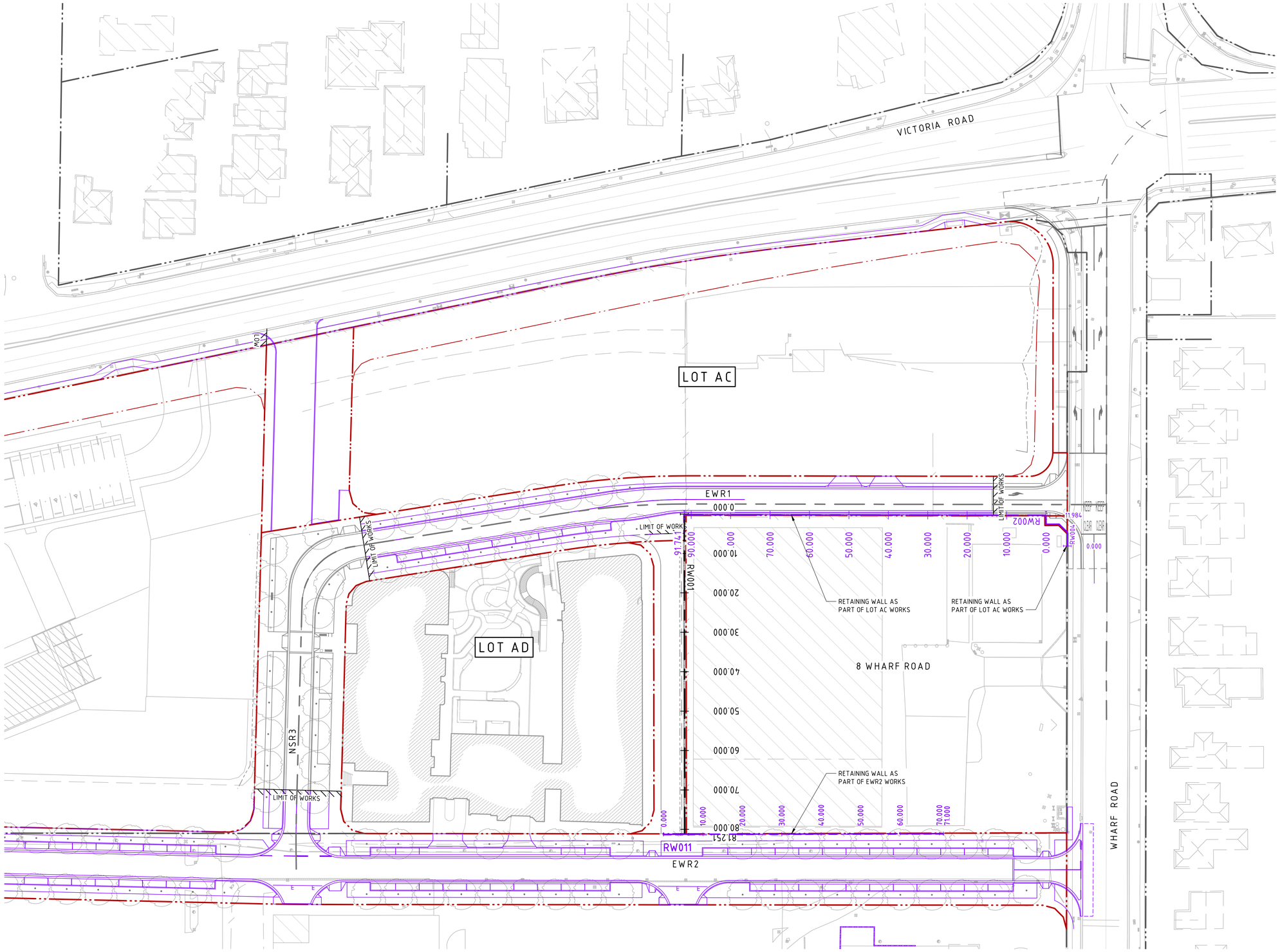
ROAD ALIGNMENT CONTROL PLAN

JOB NUMBER-STAGE-SUBSTAGE-PHASE: 150077-02-02-DA

DRAWING NUMBER: C04.21 — REVISION: 4

DRAWING SHEET SIZE = A1

Date : 22-8-18 4:05pm Plotted By : APaciben Found : K:\2015\150077 - 44 wharf road, melrose park\c-drawings\d-northrop\C-CIVIL\3-CURRENT CAD FILES\DA\STAGE 2 - LOT AD\150077-02-02-DA-C04.21_ALIGNMENT.dwg



LEGEND

	EXISTING BOUNDARY LINE
	PROPOSED BOUNDARY LINE
	PROPOSED VRS WORKS
	VRS ADJACENT STAGE WORKS
	CONTROL LINE
CH0.000	CHAINAGE
TC0.000	TANGENT POINT

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
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4	RE-ISSUED FOR DEVELOPMENT APPLICATION	AP		PS	22.08.18

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

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PROJECT: MELROSE PARK NSW VICTORIA ROAD SITE

STAGE 2 - LOT AD - DA PACKAGE

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

RETAINING WALL ALIGNMENT PLAN

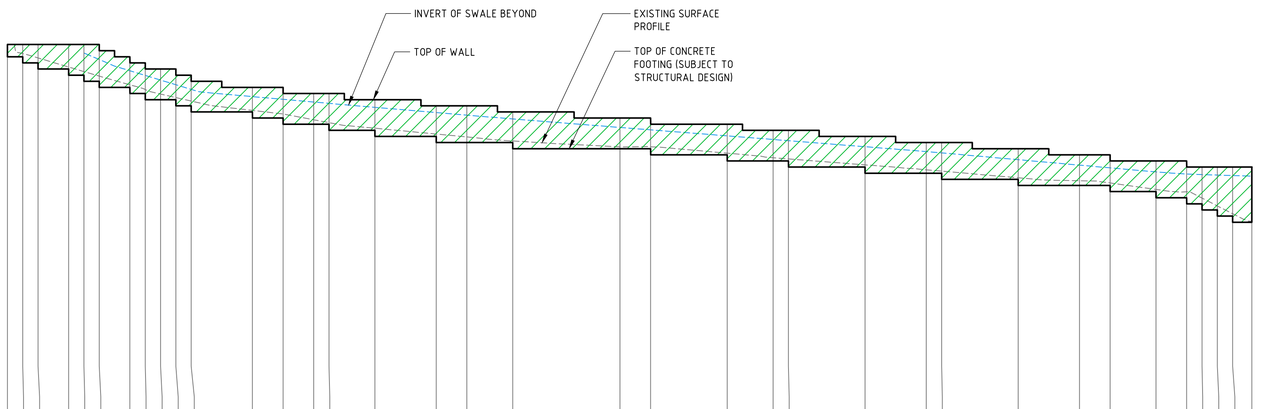
JOB NUMBER-STAGE-SUBSTAGE-PHASE: 150077-02-02-DA

DRAWING NUMBER: C06.01 REVISION: 4

DRAWING SHEET SIZE = A1

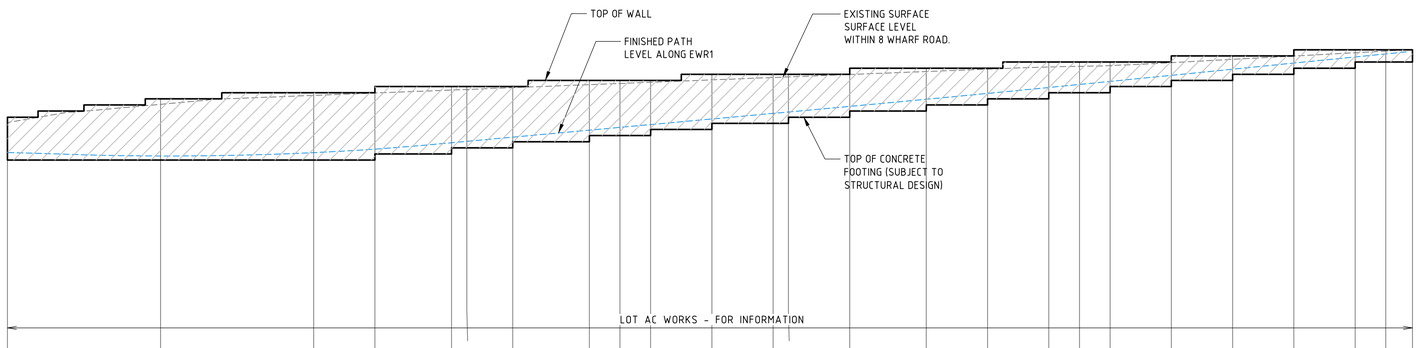
DRAWN: A. MARGARIS DESIGNED: P. SUTTON JOB MANAGER: M. RICHARDS VERIFIER: M. RICHARDS

Date : 22-8-18 4:05pm Plotted By : APaciben Found : K:\2015\150077 - 44 wharf road, melrose park\c-drawings\d-northrop\C-CIVIL\3-CURRENT CAD FILES\DA\STAGE 2 - LOT AD\150077-02-02-DA-C06.01_RETAINING WALL.dwg


INVERT OF SWALE BEYOND
TOP OF WALL
EXISTING SURFACE PROFILE
TOP OF CONCRETE FOOTING (SUBJECT TO STRUCTURAL DESIGN)

DATUM RL18

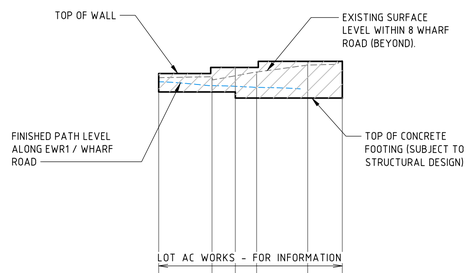
| | | |



DATUM RL20

EXISTING SURFACE	27.623	28.22	28.512	28.59	28.687	28.707	28.765	28.862	28.901	28.94	29.018	29.096	29.116	29.193	29.291	29.369	29.438	29.46	29.484	29.581	29.688	29.796	29.904	29.958	30
HEIGHT (FSL-FSL)	1.40	2.00	2.20	2.20	2.20	2.00	2.00	2.00	1.80	1.80	1.80	1.60	1.60	1.40	1.40	1.20	1.20	1.00	1.00	0.80	0.80	0.60	0.60	0.40	
RETAINING WALL TOP FSL	27.80	28.40	28.60	28.60	28.80	28.80	28.80	29.00	29.00	29.00	29.20	29.20	29.20	29.20	29.40	29.40	29.60	29.60	29.60	29.60	29.80	29.80	30.00	30.00	
RETAINING WALL BOTTOM FSL	26.40	26.40	26.40	26.40	26.60	26.80	26.80	27.00	27.20	27.20	27.40	27.60	27.60	27.80	28.00	28.20	28.40	28.60	28.60	28.80	29.00	29.20	29.40	29.60	29.60
CHAINAGE	0.00	10.00	20.00	24.00	29.00	30.00	33.00	38.00	40.00	42.00	46.00	50.00	51.00	55.00	60.00	64.00	68.00	70.00	72.00	76.00	80.00	84.00	88.00	90.00	91.74

ELEVATION OF RW002 TOF RETAINING WALL



DATUM RL20

EXISTING SURFACE	27.065	27.097	27.128	27.25	27.477	27.623	
HEIGHT (FSL-FSL)	0.60		0.80		1.20		
RETAINING WALL TOP FSL	27.20		27.40		27.60		
RETAINING WALL BOTTOM FSL	26.60	26.60	26.60	26.40	26.40	26.40	
CHAINAGE	0.00	3.48	5.00	6.39	9.72	11.98	

ELEVATION OF RW004 TOF RETAINING WALL

NOT FOR CONSTRUCTION

DRAWN: A. MARGARIS
DESIGNED: P. SUTTON
JOB MANAGER: M. RICHARDS
VERIFIER: M. RICHARDS

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1	ISSUED FOR DEVELOPMENT APPLICATION	AP		RM	25.05.18
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SCALE 1:200@ A1 — 0 2 4 6 8 10m
SCALE 1:100 @ A1 — 0 1 2 3 4 5m

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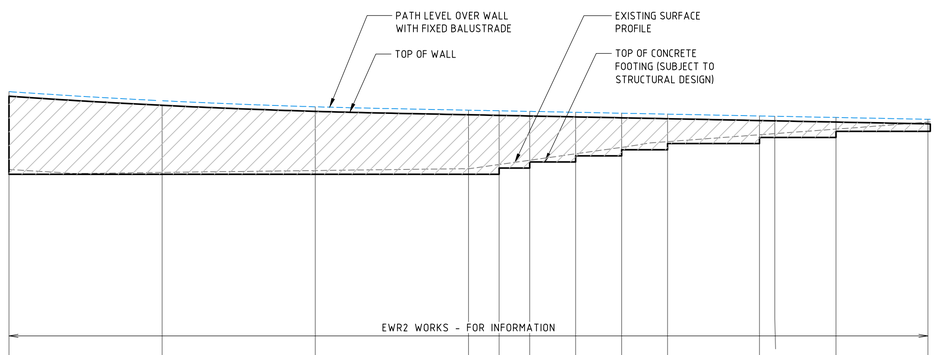
PROJECT
MELROSE PARK NSW
VICTORIA ROAD SITE
STAGE 2 - LOT AD - DA PACKAGE

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
RETAINING WALL SECTIONS - SHEET 2

JOB NUMBER-STAGE-SUBSTAGE-PHASE: 150077-02-02-DA
DRAWING NUMBER: C06.12
REVISION: 2
DRAWING SHEET SIZE = A1

Date : 28-5-18 3:59pm Plotted By : APaciben Found : \\nr-revitrevit2016\150077 - 44 wharf road, melrose park\c-drawings\d-northrop\C-CIVIL\3-CURRENT CAD FILES\DA\STAGE 2 - LOT AD\150077-02-02-DA-C06.11_RETAINING WALL SECTIONS.dwg



DATUM RL18

EXISTING SURFACE	24.354	24.258	24.32	24.378	24.517	24.657	24.866	25.076	25.263	25.488	25.525	25.672	25.902
HEIGHT (FSL-FSL)	2.55	2.25	2.05	1.94	1.92	1.70	1.47	1.24	1.01	0.75	0.54	0.50	0.24
RETAINING WALL TOP FSL	26.75	26.45	26.25	26.14	26.12	26.10	26.07	26.04	26.01	25.95	25.94	25.90	25.84
RETAINING WALL BOTTOM FSL	24.20	24.20	24.20	24.20	24.20	24.40	24.60	24.80	25.00	25.20	25.40	25.40	25.60
CHAINAGE	0.00	10.00	20.00	30.00	32.00	34.00	37.00	40.00	43.00	49.00	50.00	54.00	60.00

ELEVATION OF RW011 - TOF RETAINING WALL

DRAWN: A. MARGARIS
DESIGNED: P. SUTTON
JOB MANAGER: M. RICHARDS
VERIFIER: M. RICHARDS

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
1	ISSUED FOR DEVELOPMENT APPLICATION	AP		RM	25.05.18
2	ISSUED FOR DEVELOPMENT APPLICATION	AP		RM	28.05.18

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PROJECT MANAGER
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SCALE 1:200@ A1 0 2 4 6 8 10m
SCALE 1:100 @ A1 0 1 2 3 4 5m

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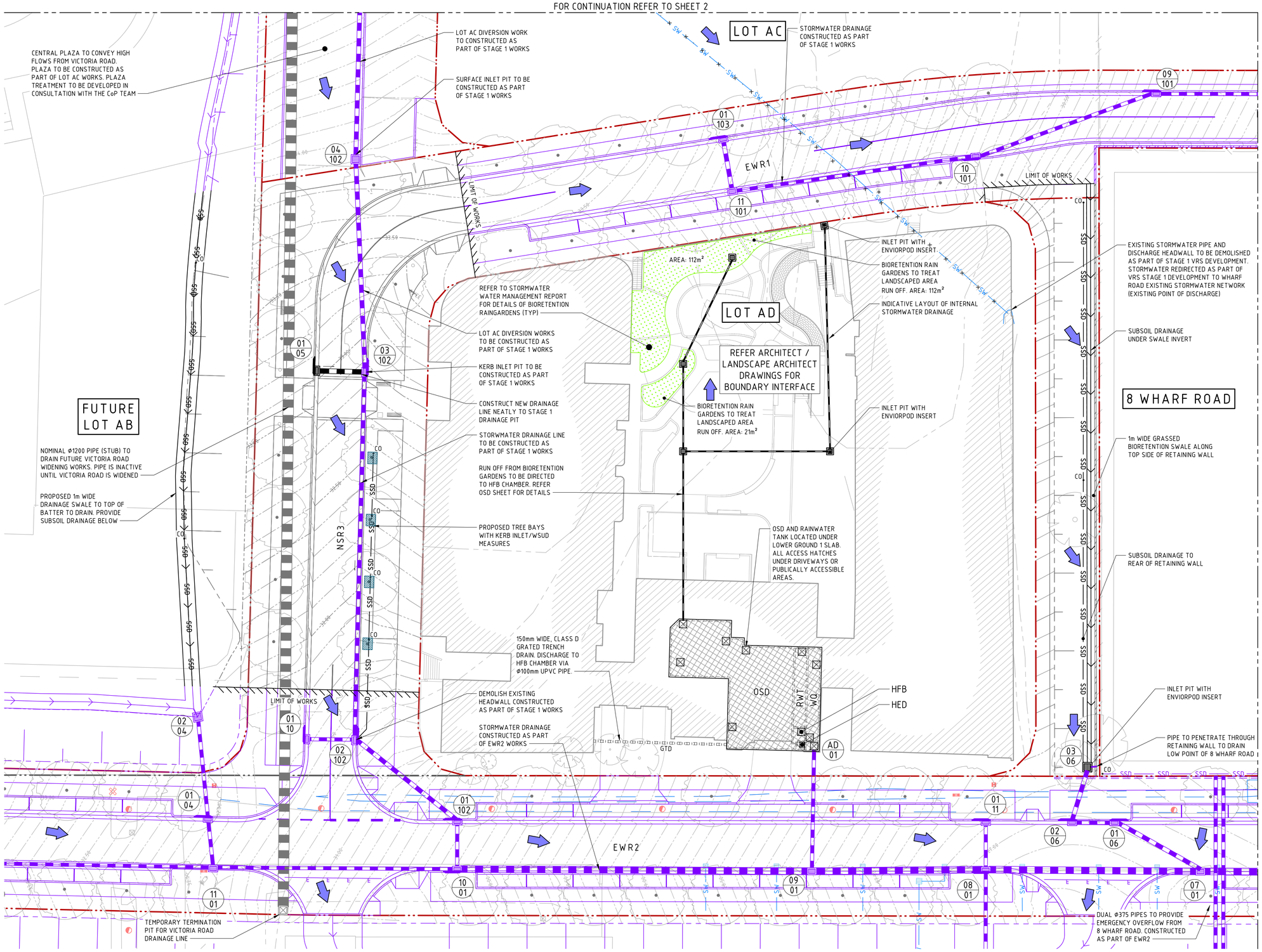
PROJECT
MELROSE PARK NSW
VICTORIA ROAD SITE
STAGE 2 - LOT AD - DA PACKAGE

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
RETAINING WALL SECTIONS
- SHEET 3

JOB NUMBER-STAGE-SUBSTAGE-PHASE
150077-02-02-DA
DRAWING NUMBER C06.13
REVISION 2
DRAWING SHEET SIZE = A1

Date : 28-5-18 3:59pm Plotted By : APaciben Found : \\ne-revitrevit2015\150077 - 44 wharf road, melrose park\c-drawings\d-northrop\C-CIVIL\3-CURRENT CAD FILES\DA\STAGE 2 - LOT AD\150077-02-02-DA-C06.11_RETAINING WALL SECTIONS.dwg



LEGEND

- EXISTING BOUNDARY LINE
- PROPOSED BOUNDARY LINE
- PROPOSED ROAD EASEMENT LINE
- VRS ADJACENT STAGE WORKS
- EXISTING STORMWATER PIPE
- CONSTRUCT STORMWATER PIPE
- GTD — GRATED TRENCH DRAIN
- GRATED INLET PIT (NEW / EXTG)
- KERB INLET PIT (NEW / EXTG)
- JUNCTION PIT (NEW / EXTG)
- 1 / A — STORMWATER PIT TAG STRUCTURE No / LINE ID
- OSD — ON-SITE DETENTION TANK
- BIO FILTRATION MEDIA
- ROCK SCOUR PROTECTION
- CO — SUBSOIL DRAINAGE CLEAROUT
- SSD — SUBSOIL DRAINAGE LINE
- DRAINAGE SWALE
- OVERLAND FLOW
- XX.XX — CONTOURS
- LIMIT OF WORKS — LIMIT OF WORKS

GENERAL NOTES:

1. REFER SPECIFICATIONS NOTES FOR STORMWATER GENERAL REQUIREMENTS.
2. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
3. CAD FILES TO BE SUPPLIED IN AUTOCAD FORMAT FOR SETOUT PURPOSES (UPON REQUEST).
4. SUBSOIL DRAINAGE TO RETAINING WALLS, KERBS AND SWALE DRAINS NOT SHOWN FOR CLARITY - REFER RELEVANT DETAILS.
5. REFER 'STORMWATER LONGITUDINAL SECTIONS C07.11' FOR PIPE AND PIT INFORMATION.
6. REFER HYDRAULIC ENGINEERS / ARCHITECTS DRAWINGS FOR DOWNPIPE LOCATIONS AND SIZING.
7. ALL PIPES CLASS 2 RCP U.N.O
8. ALL PIT GRATES 'CLASS D' U.N.O. FOR ALL DETAILS OF STORMWATER MANAGEMENT REFER TO NORTHROP STORMWATER REPORT
9. ALL INTERNAL STORMWATER PITS TO BE FITTED WITH 'ENVIROPOD' PIT INSERTS.

NOT FOR CONSTRUCTION

DRAWN: A. MARGARIS
DESIGNED: P. SUTTON
JOB MANAGER: M. RICHARDS
VERIFIER: M. RICHARDS

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2	ISSUED FOR DEVELOPMENT APPLICATION	AP		RM	28.05.18
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CLIENT: PAYCE

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PROJECT MANAGER: m PROJECTS

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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: MELROSE PARK NSW VICTORIA ROAD SITE

STAGE 2 - LOT AD - DA PACKAGE

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

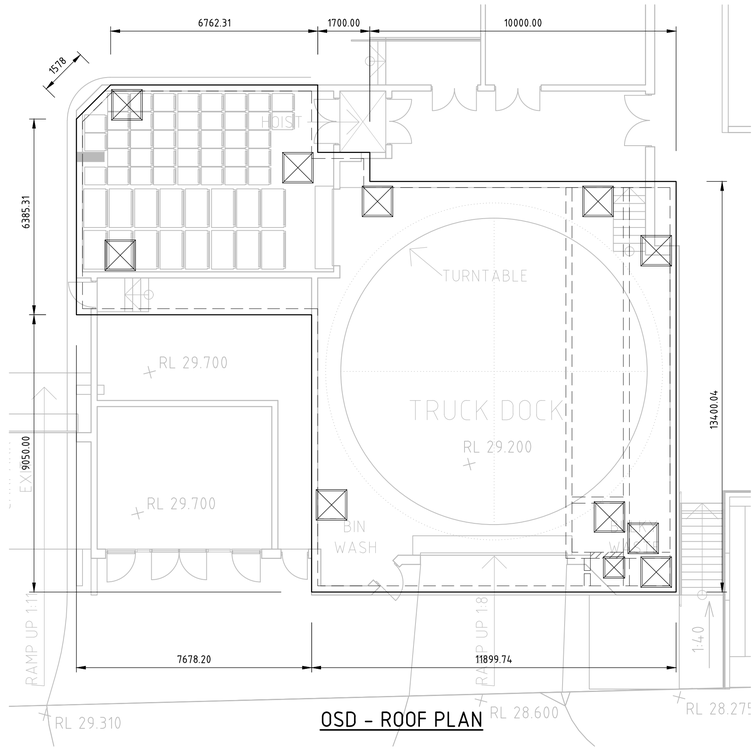
STORMWATER DRAINAGE PLAN - SHEET 1

JOB NUMBER-STAGE-SUBSTAGE-PHASE: 150077-02-02-DA

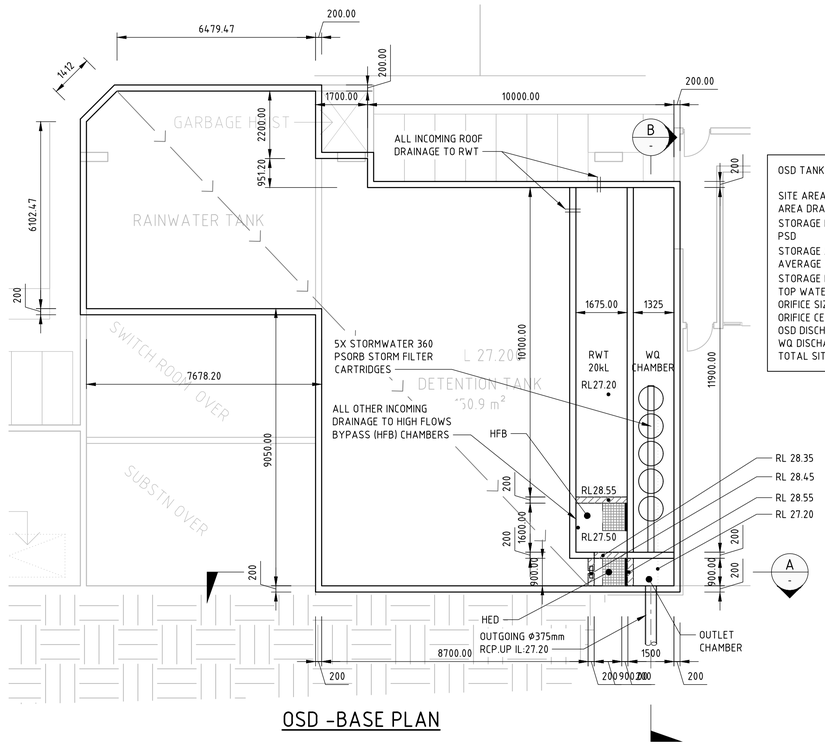
DRAWING NUMBER: C07.01 — REVISION: 4

DRAWING SHEET SIZE = A1

Date : 22-8-18 4:06pm Plotted By : APaciban Found : K:\2015\150077 - 44 wharf road, melrose park\c-drawings\d-northrop\C-CIVIL\3-CURRENT CAD FILES\DA\STAGE 2 - LOT AD\150077-02-02-DA-C07.01_STORMWATER.dwg



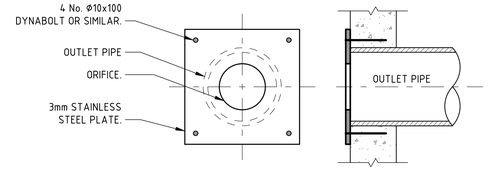
OSD - ROOF PLAN



OSD -BASE PLAN

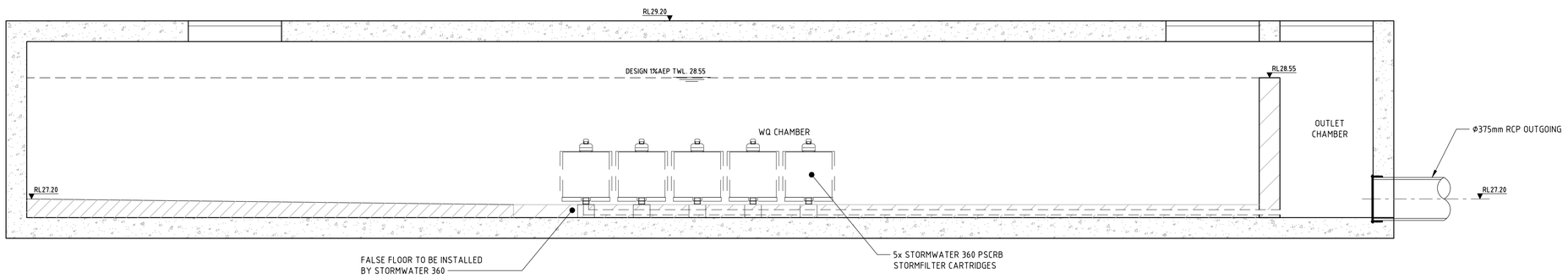
OSD TANK

SITE AREA	= 0.609ha
AREA DRAINING TO OSD	= 0.518ha
STORAGE REQUIRED	= 120.37m³
PSD	= 115.13 L/s
STORAGE AREA	= 160m²
AVERAGE HEIGHT	= 1.24m
STORAGE PROVIDED	= 198m³
TOP WATER LEVEL (TWL)	= RL 28.55
ORIFICE SIZE	= 208mm
ORIFICE CENTRE LINE (CL)	= RL 27.28
OSD DISCHARGE	= 108.4L/s
WQ DISCHARGE	= 5.97 L/s
TOTAL SITE DISCHARGE	=114.3 L/s



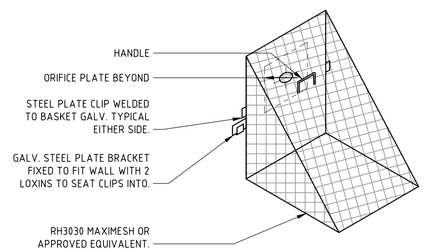
ORIFICE PLATE DETAIL

NOT TO SCALE



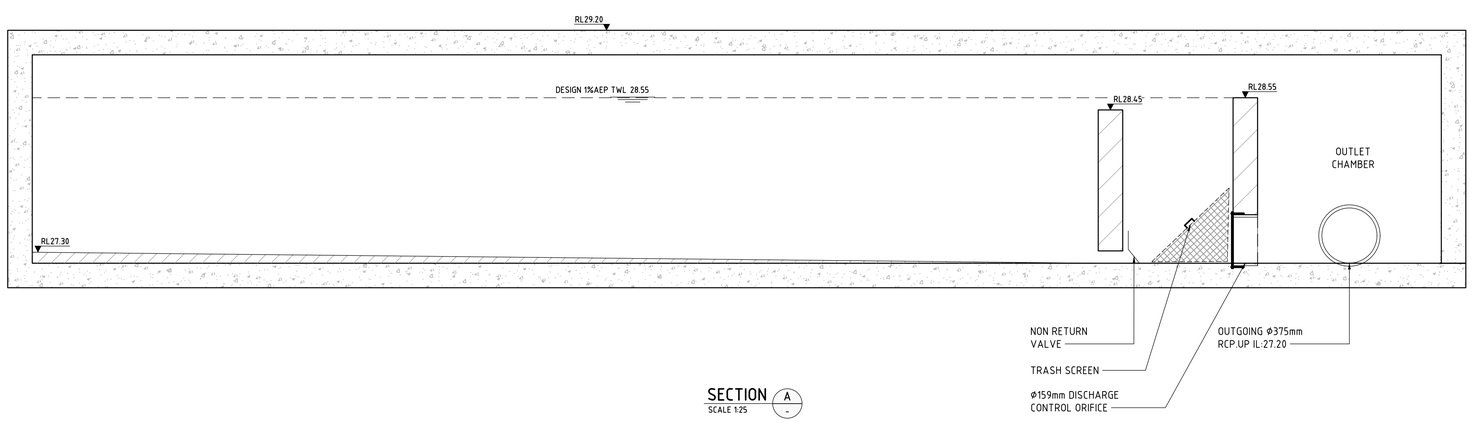
SECTION B

SCALE 1:25



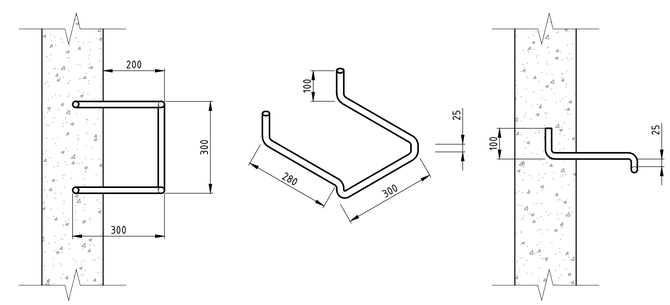
TRASH SCREEN DETAIL

NOT TO SCALE



SECTION A

SCALE 1:25



STEP IRON DETAIL

NOT TO SCALE

STEP IRON OF 20mm GALVANIZED STEEL MADE TO SHAPE AND DIMENSIONS SHOWN AND PLACED AT 300 CENTRES AND STAGGERED HORIZONTALLY FOR PITS DEEPER THAN 1.0m.

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
1	ISSUED FOR DEVELOPMENT APPLICATION	AP		RM	25.05.18
2	ISSUED FOR DEVELOPMENT APPLICATION	AP		RM	28.05.18
3	RE-ISSUED FOR DEVELOPMENT APPLICATION	AP		PS	21.08.18
4	RE-ISSUED FOR DEVELOPMENT APPLICATION	AP		PS	22.08.18

CLIENT: PAYCE

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PROJECT MANAGER: m PROJECTS

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SCALE VARIES

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

PROJECT: MELROSE PARK NSW VICTORIA ROAD SITE

STAGE 2 - LOT AD - DA PACKAGE

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

STORMWATER MANAGEMENT DEVICES - OSD

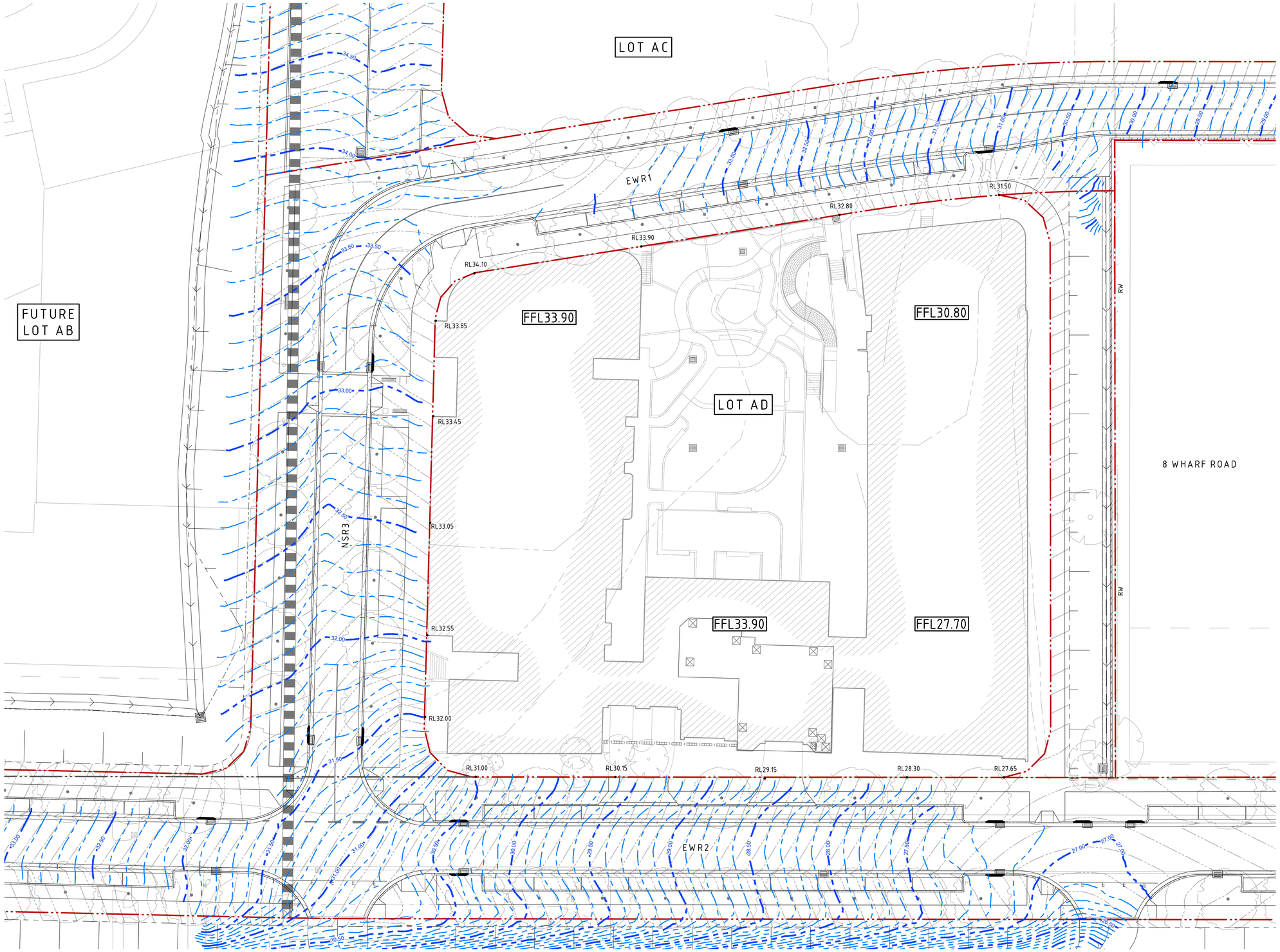
JOB NUMBER-STAGE-SUBSTAGE-PHASE: 150077-02-02-DA

DRAWING NUMBER: C07.31 REVISION: 4

DRAWING SHEET SIZE = A1

DESIGNED: P. SUTTON
DRAWN: A. MARGARIS
JOB MANAGER: M. RICHARDS
VERIFIER: M. RICHARDS

Date : 22-8-18 4:06pm Plotted By : APaciben Found : K:\2015\150077 - 44 wharf road, melrose park\c-drawings\d-northrop\C-CIVIL\3-CURRENT CAD FILES\DA\STAGE 2 - LOT AD\150077-02-02-DA-C07.31_STORMWATER DEVICES OSD.dwg



LEGEND

	EXISTING BOUNDARY LINE
	PROPOSED BOUNDARY LINE
	PROPOSED ROAD EASEMENT LINE
	PROPOSED VRS ROADS WORKS
• RL XX.XX	FLOOD PLANNING LEVELS (1% AEP + 500mm)
XX.XX	FINISHED SURFACE DESIGN CONTOURS
XX.XX	1% FLOOD AEP CONTOURS
FFLXX.XX	PROPOSED FINISHED FLOOR LEVEL

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2	RE-ISSUED FOR DEVELOPMENT APPLICATION	AP		PS	22.08.18

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SCALE 1:250@ A1 — 0 2 4 6 8 10 12m

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PROJECT: MELROSE PARK NSW VICTORIA ROAD SITE

STAGE 2 - LOT AD - DA PACKAGE

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

1% AEP CONTOUR PLAN

JOB NUMBER-STAGE-SUBSTAGE-PHASE: 150077-02-02-DA

DRAWING NUMBER: C07.81 — REVISION: 2

DRAWING SHEET SIZE = A1

VERIFIER: M. RICHARDS
JOB MANAGER: M. RICHARDS
DESIGNED: P. SUTTON
DRAWN: A. MARGARIS

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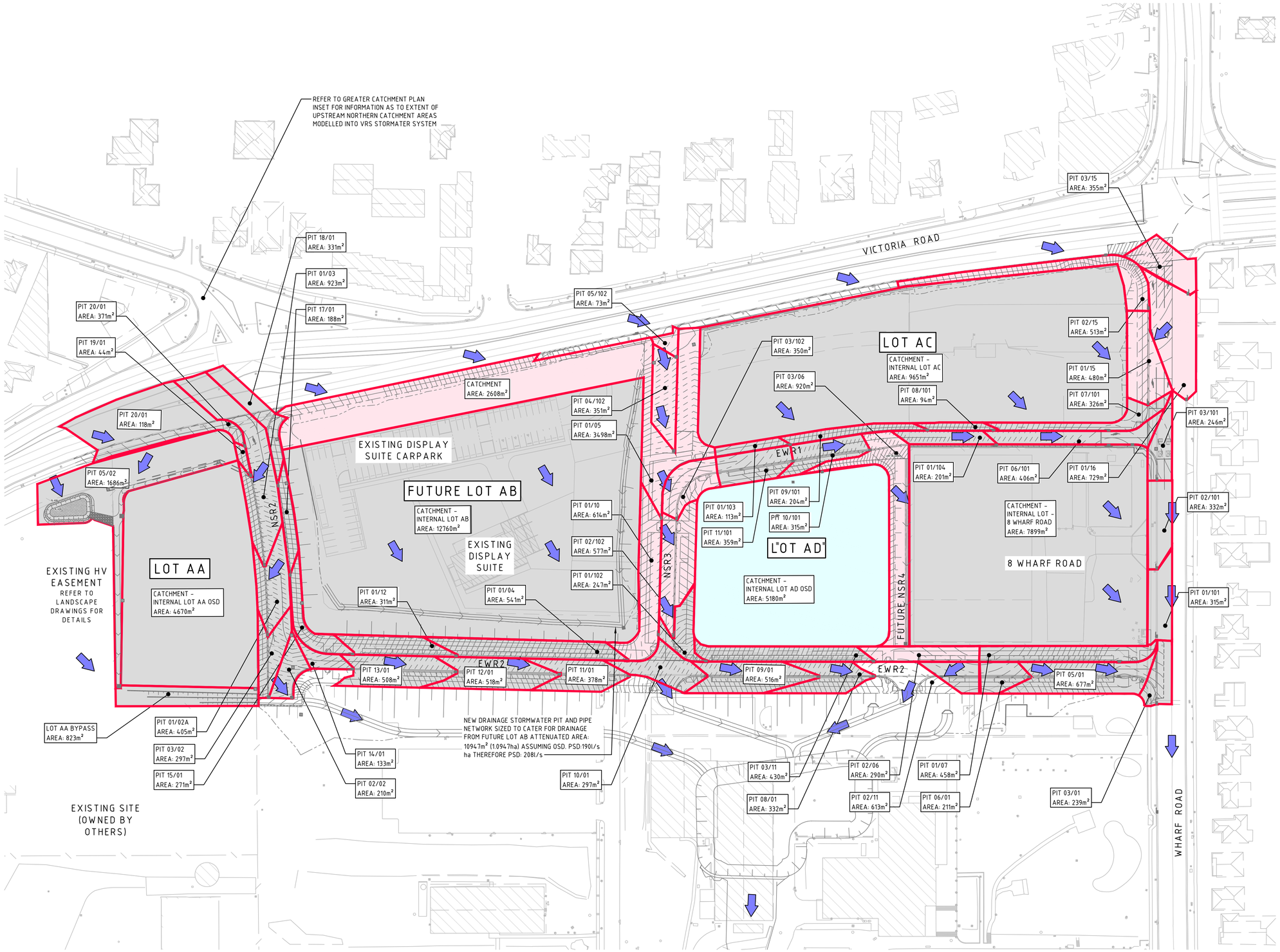
Plotted By : APacibsn
Date : 22-8-18 4:06pm

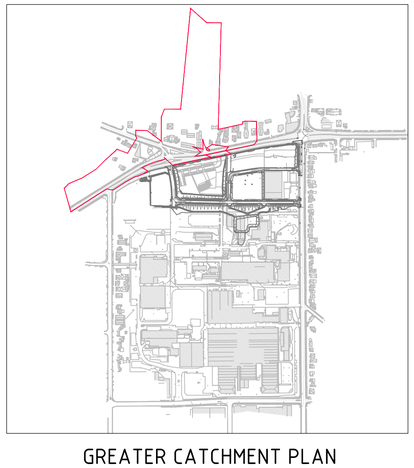


LEGEND

- EXISTING BOUNDARY LINE
- PROPOSED BOUNDARY LINE
- VRS ADJACENT STAGE WORKS
- OSD CATCHMENT BOUNDARY
- CATCHMENT EXTENTS
- LOT AD OSD CATCHMENT AREA
- REMAINING VRS CATCHMENT AREA (REFER VRS ROADS AND LOT AA PACKAGES)
- FLOW ARROW
- DRAINAGE SWALE
- PIT 12/01 AREA: 492m² — CATCHMENT NAME AND ASSOCIATED PIT CATCHMENT SIZE

NOTES

1. REFER TO CIVIL DRAWINGS / DRAINS FILE FOR HYDROLOGICAL AND HYDRAULIC CALCULATIONS.CATCHMENTS INDICATED AND THEIR CORRESPONDING PITS ARE THOSE WHICH HAVE BEEN USED FOR MODELLING PURPOSES.
2. REFER HYDRAULIC ENGINEERS CALCULATIONS FOR ROOF DRAINAGE.



GREATER CATCHMENT PLAN
NTS

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4	RE-ISSUED FOR DEVELOPMENT APPLICATION	AP		PS	22.08.18

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SCALE 1:800@ A1 — 0 10 20 30 40m

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

PROJECT: MELROSE PARK NSW VICTORIA ROAD SITE

STAGE 2 - LOT AD - DA PACKAGE

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

CATCHMENT PLAN

JOB NUMBER-STAGE-SUBSTAGE-PHASE: 150077-02-02-DA

DRAWING NUMBER: C07.91

REVISION: 4

DRAWING SHEET SIZE = A1

DRAWN: A. MARGARIS
DESIGNED: P. SUTTON
JOB MANAGER: M. RICHARDS
VERIFIER: M. RICHARDS

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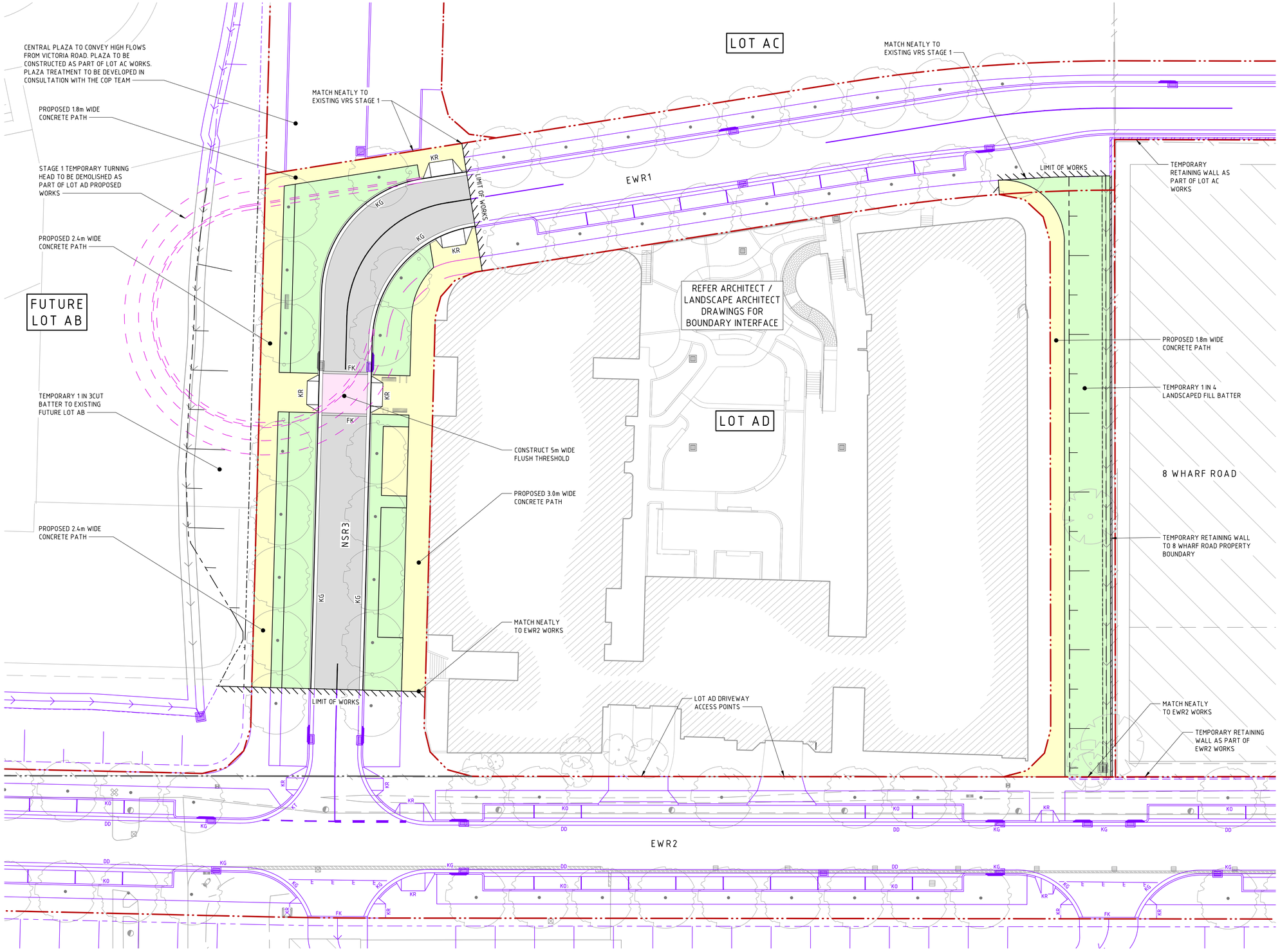
Plotted By : APaciben
Date : 22-8-18 4:06pm



LEGEND

- EXISTING BOUNDARY LINE
- PROPOSED BOUNDARY LINE
- FLEXIBLE PAVEMENT - TYPE 1 ROAD
- RIGID PAVEMENT TYPE 3 FLUSH THRESHOLD
- RIGID PAVEMENT - TYPE 4 DRIVEWAY
- RIGID PAVEMENT - TYPE 5 ROAD (SUBJECT TO RMS APPROVAL)
- HARDSCAPING - REFER LANDSCAPING ARCHITECTS PLANS FOR DETAILS
- SOFTSCAPING - REFER LANDSCAPING ARCHITECTS PLANS FOR DETAILS
- BIO FILTRATION MEDIA
- VRS STAGE 1 WORKS
- VRS STAGE 1 TO BE DEMOLISHED
- LIMIT OF WORKS — LIMIT OF WORKS
- DRAINAGE SWALE

NOTES

1. REFER SPECIFICATIONS NOTES FOR PAVEMENT GENERAL REQUIREMENTS.
2. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
3. ENSURE ALL INTERFACES WITH EXISTING MATCH NEATLY.

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SCALE 1:250@ A1 — 0 2 4 6 8 10 12m

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PROJECT: MELROSE PARK NSW VICTORIA ROAD SITE

STAGE 2 - LOT AD - DA PACKAGE

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

PAVEMENT PLAN SHEET 1

JOB NUMBER-STAGE-SUBSTAGE-PHASE: 150077-02-02-DA

DRAWING NUMBER: C08.01 — REVISION: 4

DRAWING SHEET SIZE = A1

DRAWN: A. MARGARIS — DESIGNED: P. SUTTON — JOB MANAGER: M. RICHARDS — VERIFIER: M. RICHARDS

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Date : 22-8-18 4:07pm Plotted By : APaciban