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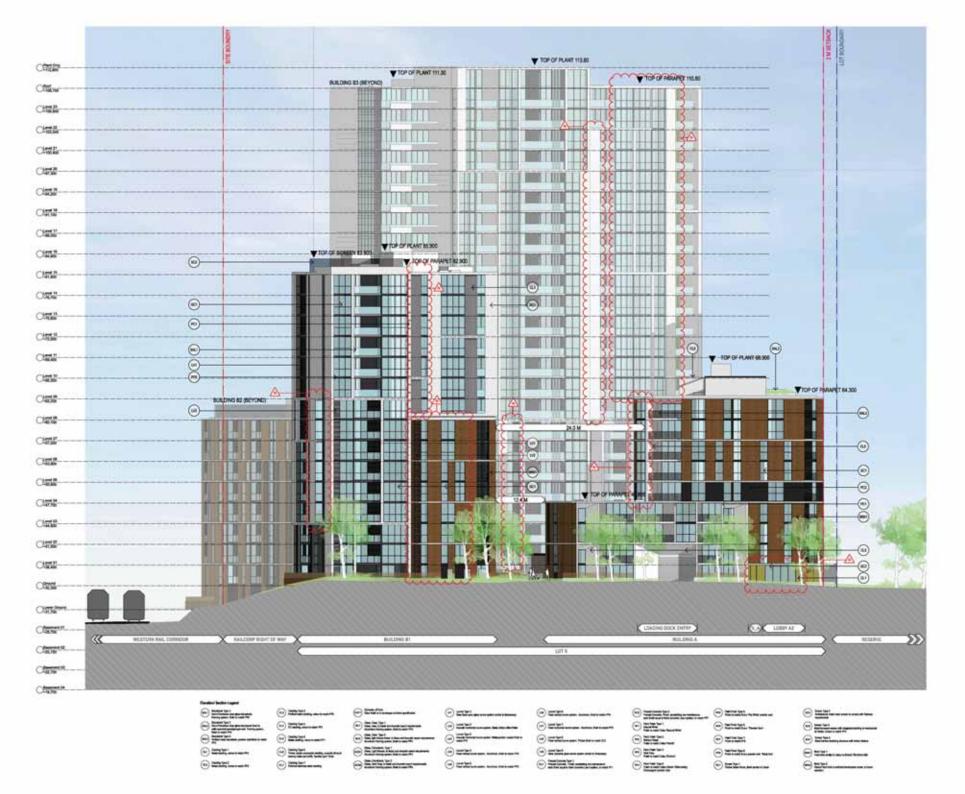


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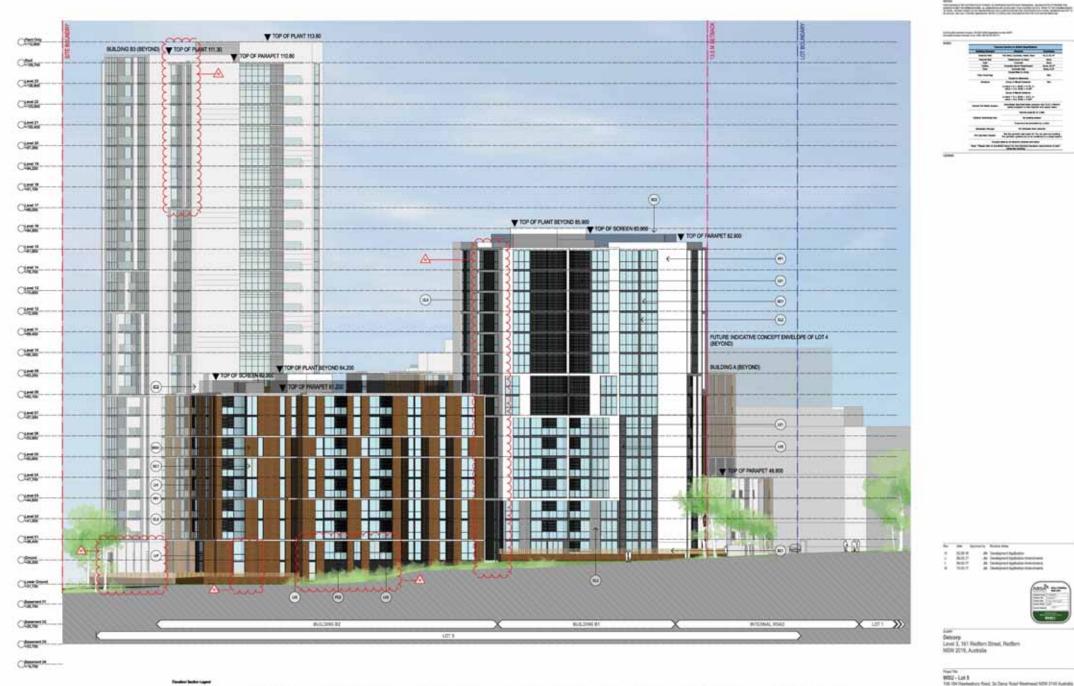
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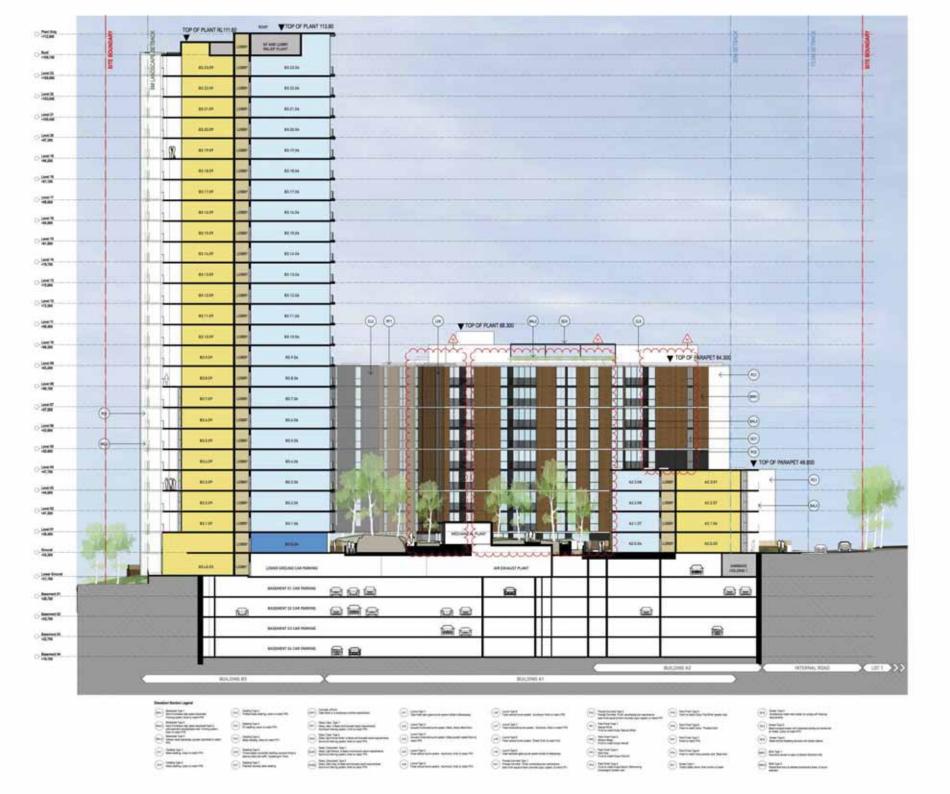
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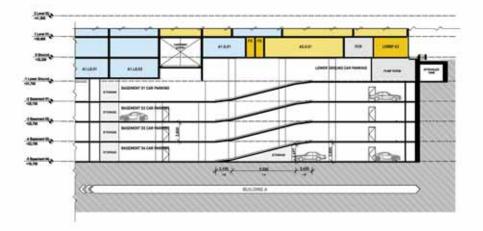
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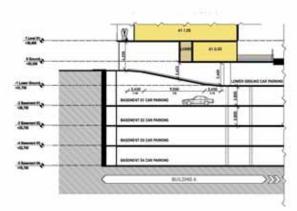


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# masterplan









- streetscape environment which transitions from Lot 5 into the WSU campus with breakout spaces. Public artwork to be incorporated into podium entry design
- 2. Community break out space break out spaces provided at lobby entries and key
- 3. Feature raised landscape areas with mounded planting, concrete seating walls and feature lighting. This space also utilises the mechanical unit as a bespoke pavilion
- for deck chairs, outdoor dining and pool amenities



# masterplan









- 1. Green open space for passive / active use in great northern aspect

- to encourage community engagement and







### REVISED DA

Nen, Andrew Turnbull RLA | RUD #073

Date:



REFER TO LD-DA102







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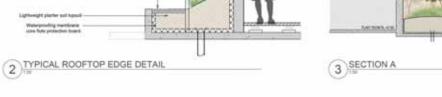
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COMBINED PROJECTS (WESTMEAD) PTY LTD

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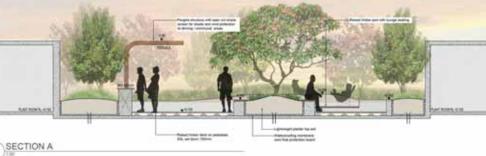
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WSU - LOT 5 WESTMEAD

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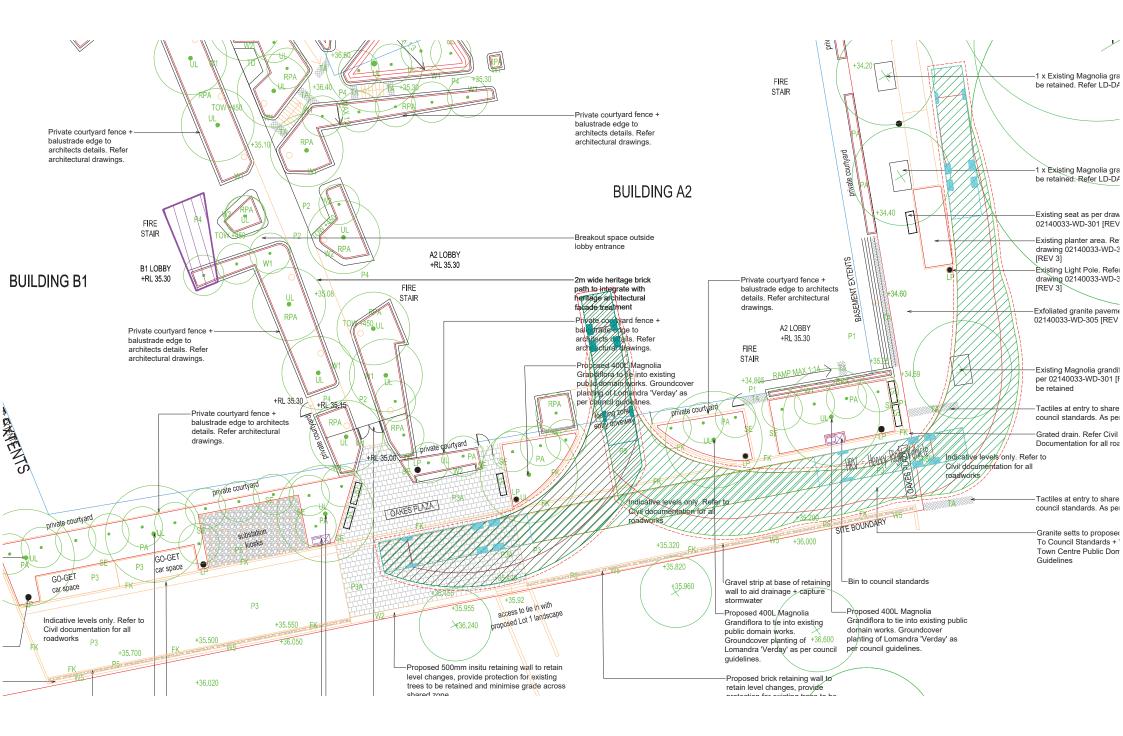
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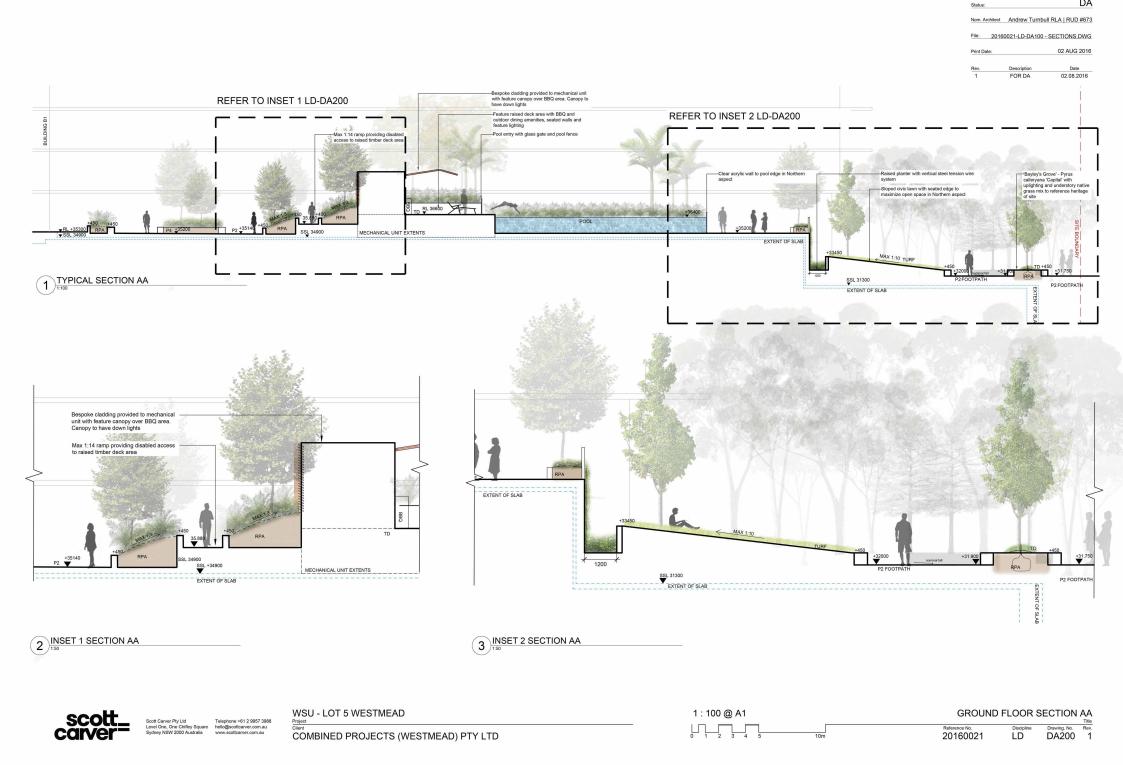
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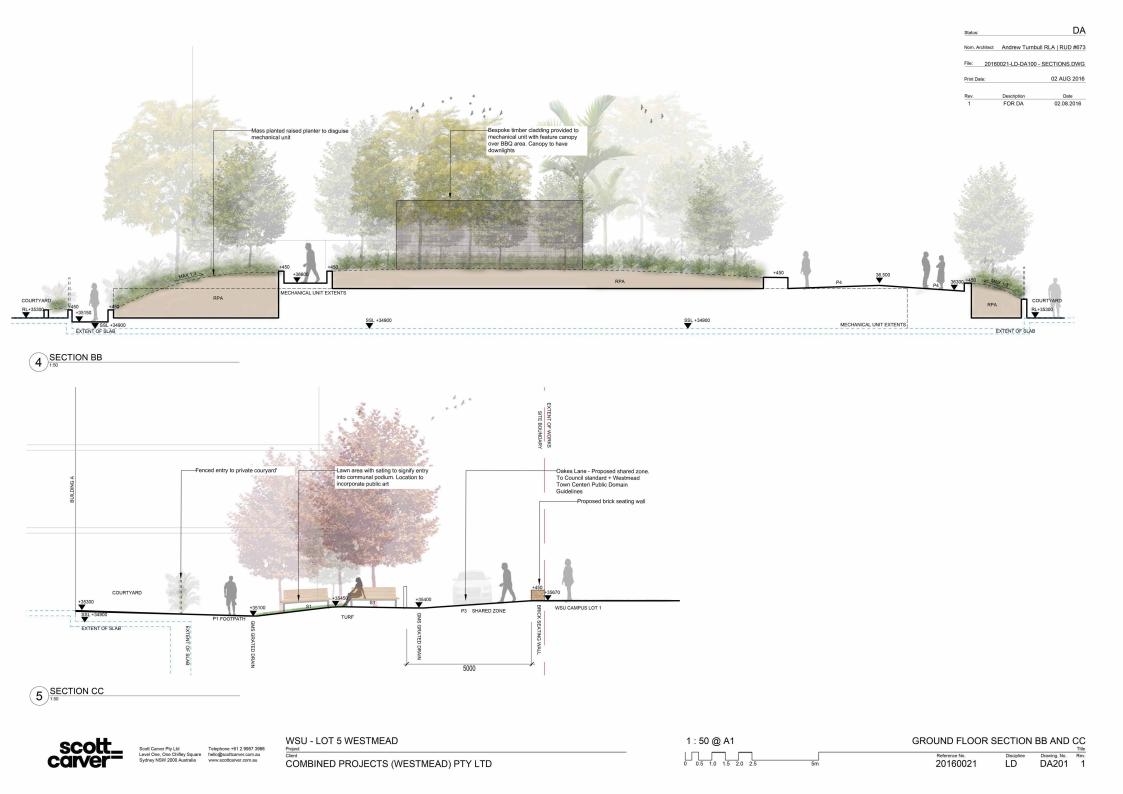
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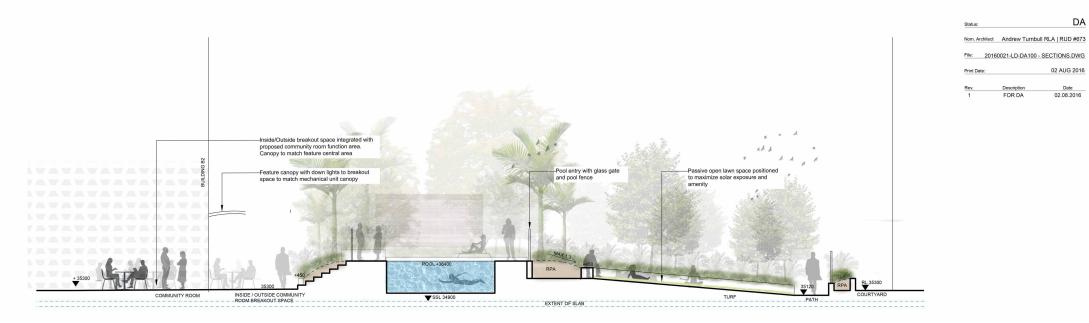
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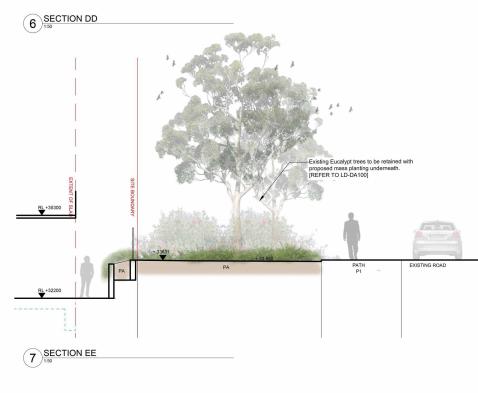








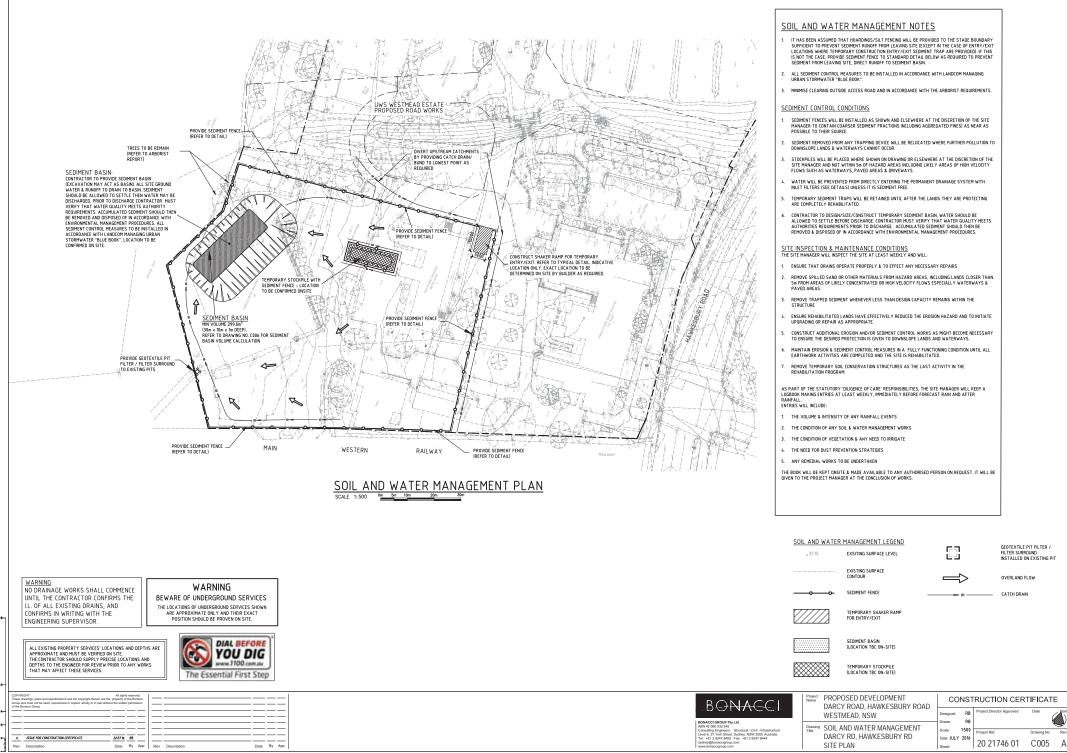




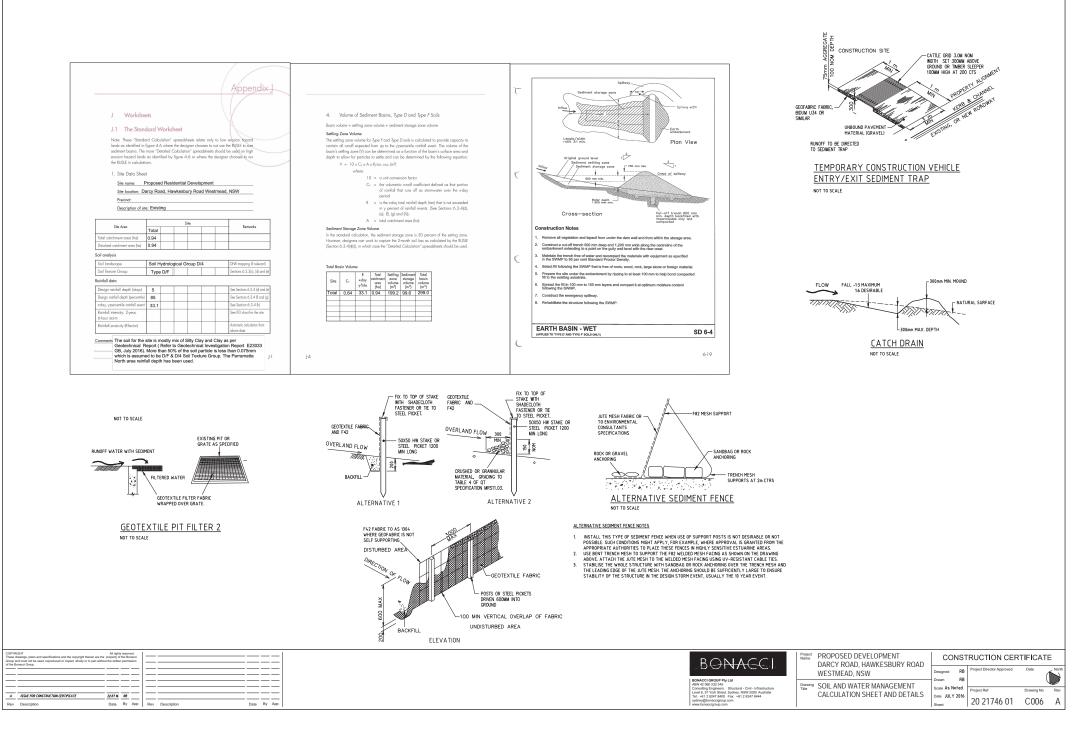


Scott Carver Pty Ltd Telephone +61 2 9957 3988 Level One, One Chilfey Square hello@scottcarver.com.au Sydney NSW 2000 Australia www.scottcarver.com.au WSU - LOT 5 WESTMEAD Project Combined PROJECTS (WESTMEAD) PTY LTD

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# WSU - LOT 5 DARCY 7 HAWKESBURY ROAD WESTMEAD CIVIL WORKS

### LEGEND

CIVIL DRAINAGE SYMBOLS	CIVIL ABBREVIATIONS	EROSION & SEDIMENTATION SYMBOLS	GENERAL ABBREVIATIONS	SERVICES & UTILITIES SYMBOLS	WATER & SEWER ABBREVIATIONS	
STWSTDR#WATER DRAINAGE PIPE	DRAINAGE LEVELS BWL BOTTOM WATER LEVEL	BARBUR FENCE	CTS CENTERS © CENTRE LINE	A AIR	BT BOUNDARY TRAP GM GRAVITY MAIN	
	IL INVERT LEVEL OL OBVERT LEVEL		DIA DIAMETER DMR DEPARTMENT OF MAIN ROADS	C CABLES	HYD HYDRANT ID INSPECTION OUTLET	
	SL SURFACE LEVEL TWL TOP WATER LEVEL	X SEDIMENT FENCE	DWG DRAWING EX. EXISTING	Drains	LH LAMP HOLE MH MAINTENANCE HOLE	
OSSSUB SOIL DRAINAGE WITH CLEAN OUT		SILT FENCE ON LEVEL	GALV GALVANIZED HD GALV HOT DIPED GALVANIZED	E ELECTRICAL	MS MAINTENANCE SHAFT PS PUMP STATION	
	LD LIGHT DUTY CLASS 'B' MD MEDIUM DUTY CLASS 'C'	SETTENCE OF GODE	ID INTERNAL DIAMETER	LV LOW VOLTAGE	RM RISING MAIN SV STOP VALVE	
EB-LF EARTH BANK LOW FLOW	HD HEAVY DUTY CLASS 'D' EHD EXTRA HEAVY DUTY CLASS 'E'		MAX MAXIMUM	HIGH VOLTAGE	SWW SYDNEY WATER WATERMAIN WM WATER METER	
EB-HF EARTH BANK HIGH FLOW	HP MULTI PART COVER OR GRATE	BANKS DIVERSION CHANNEL/BANK	NB NOMINAL BORE N.I.C. NOT IN CONTRACT	V TRANSMISSION POWER LINES		
EMEXCAVATED MATERIAL	CDS CDS TECHNOLOGIES.	LEVEL SPREADER	No. NUMBER NOM NOMINAL	COMMON EFFLUENT		
	STORNWATER TRAPS DCP DISCHARGE CONTROL PIT	EB EARTH BANK	NTS NOT TO SCALE OD OUTSIDE DIAMETER	ERM EFFLUENT RISING MAIN	WATER & SEWER SYNBOLS	
DD-DD-DIVERSION DRAIN	DGGP DOUBLE GRATED GULLY PIT (CAST IRON)	EBLFEARTH BANK LOW FLOW	REV REVISION RTA ROADS AND TRAFFIC AUTHORITY			
DIVERSION DRAIN	GPT GROSS POLUTANT TRAP JP JUNCTION PIT	EBHF EARTH BANK HIGH FLOW	SQ SQUARE SRA STATE RAIL AUTHORITY	G GAS	FUTURE SYDNEY WATER SEWER	
	KEP KERB ENTRY PIT KEU KERB ENTRY UNIT	EMEMEXCAVATED MATERIAL	STA STATE RAL ADTIGUT STD STANDARD UNO UNLESS NOTED OTHERWISE	GAS HIGH PRESSURE	sEXISTING SYDNEY WATER SEWER	
	HPC MULTI PART COVER HPG MULTI PART GRATE	TRAPS	VERT VERTICAL	GAS MEDIUM PRESSURE		
	SGGP SINGLE GRATED GULLY PIT (GMS) SWP STORHWATER PIT	) GEOTEXTILE SEDIMENT TRAP	LEVELS ABBREVIATIONS	GAS LOW PRESSURE		
RUCK LINED DRAIN	DRAINAGE LINES	CHECK DAMS (STRAW BALE OR ROCK)	CL CEILING LEVEL FFL FINISHED FLOOR LEVEL	GAS GAS	MATERIALS	
TDTABLE DRAIN	SS SUBSOIL DRAINAGE STRW STORHWATER RISING MAIN	CONCRETE ENERGY DISSIPATOR	FGL FINISHED GROUND LEVEL GL EXISTING GROUND LEVEL	NG NATURAL GAS	Br BRASS	
4— 4— 4— 4— ∨ DRAN (L)	STW STORMWATER DRAIN GD AGEGRATED DRAIN	STABALISED CONSTRUCTION SITE	HL HIGH LEVEL HP HIGH POINT	H HYDRAULIC POWER	CI CAST IRON CICL CAST IRON CEMENT LINED	
	OLD OPEN LINED DRAIN OUD OPEN UNLINED DRAIN	VEHICLE ENTRY/EXIT GRID	LL LOW LEVEL ML HID LEVEL	I IRRIGATION	CONC CONCRETE CP CHROMIUM PLATED	
))))))))))))))))))))))))))))))))))))))	FEATURES	E SEDIMENT TRAP	NS NATURAL SURFACE LEVEL PL PLATFORM LEVEL	RTA RTA RTA ROADS & TRAFFIC AUTHORITY	Gu COPPER DICL DUCTILE IRON CEMENT LINED	
OVERLAND FLOW DIRECTIONAL ARROW	CO CLEAROUT DP DOWN PIPE	GEOTEXTILE FILTER BAGS OR SOCK	RL REDUCED LEVEL US UNDER SIDE	SRA SRA STATE RAIL SERVICE	FRC FIBRE REINFORCED CEMENT GMS GALVANISED MILD STEEL	
	FP FLUSHING POINT IO INSPECTION OPENING		USFL UNDERSIDE FLOOR	SSEWER	MS HILD STEEL NY NYLON	
OVERLAND FLOW PATH	OF GUTTER OVERFLOW PIPE R0 RAINWATER OUTLET			SRM SEWER RISING MAIN	PE POLYETHYLENE RC REINFORCED CONCRETE	
PAVED AREA DRAIN.	DTU DRAINAGE TURNUP	SURVEY & MAPPING SYMBOLS	SURVEY ABBREVIATIONS	T TELECOMMUNICATIONS TELSTRA	RCP REINFORCED CONCRETE PIPE RHS RECTANGULAR HOLLOW SECTION	
DROP TO OR RISE FROM	OSD ONSITE DETENTION		AHD AUSTRALIAN HEIGHT DATUM BK BOTTOM OF KERB	OF OPTICAL FIBRE OF	SS STAINLESS STEEL	
O RISE TO OR DROP FROM	PSD PERHISSIBLE SITE DISCHARGE OFP OVERFLOW PATH	PROPERTY BOUNDARY	BM BENCH MARK CL CENTRE LINE	SHOF OPTICAL FIBRE CABLE SHOF		
C TEE DROP	SWMP STORM WATER MANAGEMENT PLAN ESCP EROSION & SEDIMENT CONTROL PLAN	EASEMENT	D.E. DRAINAGE EASEMENT DH&W DRILL HOLE & WING	OP OPTUS	CATCHMENT SYMBOLS	
VERT VERTICAL RISER IN DRAINAGE FLOW DIRECTIONAL ARROWS ON ALL		-// FENCE OFF BOUNDARY	FD FOUND INV INVERT	OCC OVERHEAD COMMUNICATION CABLE	X	
PIPING SERVICES		/ FENCE ALONG BOUNDARY	K & G KERB & GUTTER R.O.W. RIGHT OF CARRIAGEWAY	W WATER	XX LINE CATCHMENT	
PIPELINE TERMINATED     WITH BLANK FLANGE	OSD ABOVE GROUND	. / . / . / . / FENCE ON BOUNDARY	R.U.W. RIGHT OF CARRAGEWAT SSM STATE SURVEY MARK TK TOP OF KERB	WRM WATER RISING MAIN		
PIPELINE PLUGGED OFF	KEP - KERB ENTRY PIT		DI 165 / 0	MS-MISCELLANEOUS SERVICE	- SUB CATCHMENT	
F.P. CLEAROUT	DOUBLE GRATED GULLY PIT	+ STATE BOUNDARY	- PROPOSED SURFACE LEVEL	x x	LIMIT OF CATCHMENT	
FLUSHING POINT     NEW PIPE				Y Y	CATCHMENT ABBREVIATIONS	
		PARISH BOUNDARY	DRAFTING SYMBOLS	z z	PL) PAVED CATCHMENT AREA	
				DRAINAGE CULVERTS & PIPE SIZES GREATER THAN & INCLUDING 450	R() ROOFED CATCHMENT AREA A() LANDSCAPE CATCHMENT AREA	
SIZE DROPPER	SURFACE INLET PIT (DEPRESSED)	P NATIONAL PARK BOUNDARY	SCALE BARS	DIA TO BE SHOWN IN FULL WIDTH	T() TERRACE CATCHMENT AREA	
	GRATED TRENCH DRAIN	R STATE RECREATION BOUNDARY	2 0 4 8 12m	NOTE:- 'e' ON SERVICE LINE REPRESENTS EXISTING SERVICE OR THE USE OF LOWER CASE LETTER.	ARI AVERAGE RECURRENCE INTERVAL CA CATCHHENT AREA	
		STATE FOREST BOUNDARY	SCALE 1:200	'x' ON SERVICE LINE REPRESENTS SERVICE TO BE ABANDONED.	Ha HECTARE L/s LITRES PER SECOND (VELOCITY)	
		TELSTRA EXCHANGE BOUNDARY	2000 0 4000 8000 12000mm	X UN SERVICE LINE REPRESENTS SERVICE TO BE ADAMDUNED.	m/s METRES PER SECOND IVELO(ITY) CUMECS CUBIC METRES PER SECOND	
			SCALE 1:200		Q QUANTITY OF FLOW	
			SECTION SYMBOL			
			C-03 SECTION No. REFERENCE DRAWIN	NG		

		SCALE
C01	COVER SHEET & LEGEND	N.T.S.
C02	SPECIFICATION NOTES	N.T.S
C03	BULK EARTHWORKS PLAN	1:200
C04	INTERNAL ROADWAY & PATHWAY PLAN	1:250

DA ISSUE

### NOTES

### GENERAL

- G1. DESIGN HEREIN HAS BEEN PREPARED BY NEIL LOWRY & ASSOCIATES HYDRAULC & CIVIL ENGINEERS, SUITE 3.09, 7-9 GIBBONS STREET, REDFERN TEL:- 02 9526 7922, FAX:- (02) 9526 7944
- G2. THE DRAWINGS HEREIN SHALL BE READ AS REQUIRED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS
- ARCHITECTS PTY LTD Phone: (02) 8668 0000 FAX:- (02) 8668 0088
- G3. ALL DIMENSIONS IN MILLIMETRES UNO. REDUCED LEVELS AND CHAINAGES ARE IN METRES. DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS
- G4. THE PROPOSED WORKS DETAILED HEREIN SHALL BE CONSTRUCTED TO THE REQUIREMENTS OF COUNCIL GENERALLY AS DETAILED HEREUNDER.
- G5. ALL EXISTING SERVICES SHALL BE VERIFIED FOR DEPTH AND HORIZONTAL POSITION BY PHYSICAL MEANS PRIOR TO EXCAVATION. ANY DISCREPANCIES SHALL BE BROUGHT FORTHWITH TO THE PROJECT MANAGER'S ATTENTION.

### SUB-SOIL DRAINAGE MATERIALS:

- S51. PIPES & FITTINGS FOR SUBSOIL DRAINAGE SHALL BE SLOTTED POLYVINYL CHLORIDE (PVC) WITH SOLVENT WELDED JOINTS, MIN. 150mm DIAMETER.
- SS2. ALL SUBSOIL DRAINAGE & DETAILS REFER TO STORMWATER & SUBSOIL DRAINAGE DRAWINGS BY N. LOWRY & ASSOCIATES PTY LTD

- GEOTECHNICAL REPORT
- REFERENCE SHALL BE MADE TO THE GEOTECHNICAL REPORT BY REPORT BY COFFEY GEOSCIENCES Pty Ltd "PROPOSED DEVELOPMENT, STAGE 2 STEEL RIVER INDUSTRIAL DRIVE, MAYFIELD WEST. REPORT №. N09973/02-AB, 9 AUG 2006

- CONCRETE WORKS
- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600, THE SAA STANDARDS CITED IN AS3600, THE DRAWINGS AND THE SPECIFICATION.
- C2. ALL CONCRETE SHALL BE 80mm MOMINAL SLUMP, 20mm MAXIMUM AGGREGATE WITH NO ADMIXTURES OR FLY ASH, UNLESS OTHERWISE APPROVED.
- ALL CONCRETE WORK IN CONTACT WITH SEWER TO HAVE TYPE SL PORTLAND CEMENT, OTHERWISE TYPE A CEMENT FOR BRIDGE WORKS, A MAXIMUM 56 DAYS SHRINKAGE OF 600 MICROSTRAIN, A MINIMUM CEMENT CONTENT 350kg/m3 AND MAXIMUM WATER:CEMENT RATIO OF 0.40
- CAS STRENGT GRADE OF CONCETE SHALL BE : 25 MPa (KERBS, EDGE STRIPS & CONCRETE ENAL BE : 25 Mpa FLEVUAL STRENGTH FOR RIGID CONCRETE PAVEMENTS AT 80mm SLUMP, 20mm MAXIMUM AGGREGATE SIZE, AND 32 MPa ELSEWHERE.
- CONSTRUCTION STATE UNDER POPERLY FORMED AND USED
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- C5. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND IS NOT NECESSARILY SHOWN IN TRUE PROJECTION. FILLING:
- C6. WELDING OR SPLICES IN REINFORCEMENT SHALL BE USED ONLY IN POSITIONS APPROVED BY THE ENGINEER. C7. CONCRETE CURING SHALL BE IN ACCORDANCE WITH AS3600. CURING SHALL BE COMMENCED WITHIN TWO HOURS OF FINISHING OPERATIONS SGE2. AND SHALL BE CONTINUED FOR A NIMIWH OF SEVEN DAYS BY AN APPROVED PROPRIETARY COMPOUND OR BY KEEPING CONTINUOUSLY
- C8. FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS3610. FORMWORK SHALL NOT BE STRIPPED NOR PROPS REMOVED WITHOUT APPROVAL. C9. FABRIC LAP DETAILS SHALL BE IN ACCORDANCE WITH FIG.13.2.4 OF SGE4. 5, AS3600.
- C10. HOOKS, LAPS AND BENDS SHALL BE IN ACCORDANCE WITH AS3600 UND.
- C11. ALL CHEMICAL ANCHORS SHALL BE EITHER 'CHEMSET' BY "RAMSET" WITH THE GLASS CAPSULE SYSTEM INSTALLED IN STRUCT ACCORDANCE WITH MAMORFACTURERS INSTRUCTIONS

- EXCAVATION BATTERS:
- SGE8. ALL THMORARY BATTERS CUT IN CLAY SUBSTRATE SHALL BE 1 HORIZ : 1 VERT. ALL LONG TERM EXPOSED BATTERS CUT IN CLAY SUBSTRATE SHALL BE 2 HORIZ : 1 VERT. ALL DETENTION BASIN BATTERS IN CLAY SUBSTRATE SHALL BE 3 HORIZ : 1 VERT.
- ALL DETENTION BASIN BATTERS IN ROCK SUBSTRATE SHALL BE NEAR VERTICAL. SGE9. GEOTECHNICAL TESTING IS TO BE UNDERTAKEN TO AT LEAST LEVEL 1 CONTROL OF FILL COMPACTION STANDARD, AS DEFINED IN AS. 3738 AS FOLLOWS
- FOR GENERAL FILL OR CUT AREAS OVER
- FOR GENERAL FILL OF LUI AFRAS UVEN THE AFRAE PROVIDENCE IN IST FER DEVICES AND AND AND AND AND AND AND AND GREATER THAN 500 m. FOR GENERAL FILL AFRAS IN CONCENTRATED AFRAS ADJACENT TO AND BEHNOR THAS THANG WALLS PROVIDE ONE (IN TEST PER 200mm LAYER, OVER AN AFRA NOT GREATER THAN 500:

- GENERAL EARTHWORKS, SITEWORKS & FILLING:
- SGE1. THESE CLAUSES SHALL BE READ IN CONJUNCTION WITH "REPORT ON GEOTECHNICAL INVESTIGATION BY GEOTECHNIQUE PTY LTD
- REPORT No. 10280/2-AA DATED 4 JUNE 04 PH 02 4722 2700 FAX: 02 4722 2777 STRIP ALL TOPSOIL AND UNDERLYING FILL AND STOCKPILE TOPSOIL FOR LATER REUSE FOR LANDSCAPING PURPOSES.
  - SGER NEW FILL REQUIRED TO REINSTATE CUT LEVELS TO PROPOSED BENCHING LEVELS SHALL BE SOURCED FROM OTHER PARTS OF THE EXCAVATION AS SELECT FILL OR IMPORTED FILL AS SPECIFIED BELOW IN SGE 4 AND SGE
- SELECT FILL SHALL CONSIST OF LOCALLY DERIVED OR CUT SGE5. NATURAL CLAYS.
- IMPORTED FILL SHALL CONSIST OF RIPPED SANDSTONE OR SHALE OR SIMULAR MATERIAL WITH MAXIMUM PARTICLE SIZE NOT GREATER THAN 120mm AND A MOISTURE SGE6. CONTENT WITHIN 2-3% OF STANDARD OPTIMUM.
- ALL FILL (COHESIVE SOIL) SHALL BE PLACED IN LAYERS OF 200mm MAXMMM THICKNESS, COMPACTED BY MACHINE ROLLING TO ACHIEVE A DBY DENSTY RATIO OF NOT LESS SGE7. THAN 90% STANDARD MAXMUM AT A CORRESPONDING SGE7. HONSTWEE CONTENT WITHIN 2-3% OF STANDARD OPTIMUM.
  - IN AREAS WHERE HIGH IMPACT ROLLING IS USED TEST EACH FINAL LAYER OF NOT GREATER THAN 300mm TO 400mm TO ALHEVE A DRY DENSITY RATIO OF NOT LESS THAN 98% STANDARD MAXHUM AT A CORRESPONDING MOISTURE CONTENT WITHIN 2-3% OF STANDARD DPTIMUM.

RES2. FOR ALL SURFACES OTHER THAN IN TRAFFIC AREAS RESTORE DISTURBED SURFACES TO PRE-EXISTING CONDITIONS AND COMPACT AS SPECIFIED. RES3. RESTORE ALL AUTHORITY OWNED AREAS TO COUNCIL STANDARDS ROAD WORKS, DRIVEWAYS & CARPARKS

RESTORATION:

R1. ALLOW FOR LEVEL 2 TESTING AND SUB-GRADE CONDITIONS 8 PAVEMENT THICKNESS TO BE VERIFIED BY GEOTECHNICAL CONSULTANT AFTER INSPECTION OF PRELIMINARY BOXING.

RES1. RESTORE ALL TRAFFIC AREAS TO PRE EXISTING CONDITION.

- P2 ALLOW FOR ANY SUB-SPACE REPLACEMENT WORK TO BE DETERMINED AS REQUIRED BY GEOTECHNICAL CONSULTANT AT THE TIME OF PAVEMENT CONSTRUCTION.
- R3. MINIMUM DRY DENSITY RATIOS (AS 1289 3.4.1-1993) TO BE BASECOURSE 98% MODIFIED 95% MODIFIED SUB-BASE SUB-GRADE 100% STANDARD SUB-GRADE REPLACEMENTION% STANDARD
- R4. PAVEMENT MATERIALS TO COMPLY WITH RTA SPECIFICATION No. 3051 OR SIMILAR AS APPROVED BY GEOTECHNICAL CONSULTANT.
- R5. PROVIDE (1) TEST FOR EACH LAYER NOT EXCEEDING 250mm THICK BEING BASECOURSE, SUB-BASE & SUB-GRADE OVER AN AREA NOT GREATER THAN 500m
- R6. SUBMIT ALL GEOTECHNICAL TEST RESULTS TO WARREN SMITH & PARTNERS FOR REVIEW PRIOR TO CONTINUATION WITH SUBSEQUENT SECTION OF WORK. APPROVALS
- A1. THE AS CONSTRUCTED WORKS SHALL BE INSPECTED BY DESIGN CONSULTANT. MINIMUM 48 HOURS NOTICE SHALL APPLY TO ALL INSPECTIONS.
- A2. THE DESIGN PLANS HEREIN ARE SUBJECT TO COUNCIL APPROVAL PRIOR TO CONSTRUCTION. OBTAIN EXPRESS (WRITTEN) ADVICE TO PROCEED FROM PROJECT MANAGER PRIOR TO COMMENCEMENT.
- A3. SUBMIT WORK-AS-EXECUTED DRAWINGS IN CIVILCAD OR DXF DIGITAL FORMAT AND HARD COPY FORMAT. VERIFY ALL CONSTRUCTION WORKS SHOWN HEREON.
- A4. CERTIFY THAT THE AS CONSTRUCTED SYSTEM HAS BEEN BUILT IN ACCORDANCE WITH THE APPROVED PLANS ISSUED FOR CONSTRUCTION.

### ROAD SIGNS & LINE MARKING RS1. ALL SIGNS AND LINEMARKING SHALL BE TO ROADS & TRAFFIC AUTHORITY STANDARDS AND SPECIFICATIONS AND AS.1742, MANUAL OF UNIFORM

- - RS2. ALL LINEMARKING SHALL BE AUGMENTED BY RETROREFLECTIVE RAISED PAVEMENT MARKERS (RRPMs) AND ALL SHALL BE TO AS 1742.2 1994 AND AS 1742.2 / AMDT 1/1997-10-05 RS3. ALL ROAD SIGNS AND POSTS SHALL BE TO AS 1742.2 - 1994 AND AS 1742.2 / AMDT 1/1997-10-05

### COUNCIL STANDARDS

- LGA 1. THE DRAWINGS HEREIN SHALL BE READ IN CONJUNCTION WITH COUNCIL'S STANDARDS & SPECIFICATIONS WHICH SHALL OVERRIDE SPECIAL DETAILS SHOWN ON THE DRAWINGS.
- TRAFFIC NOTE:
- A TRAFFIC CONTROL PLAN IS TO BE PREPARED BY AN ACCREDITED RTA TRAFFIC CONTROLLER AND SUBMITTED TO COUNCIL THIS TRAFFIC PLAN IS TO BE CERTIFIED BY AND IMPLEMENTED TO THE SATISFACTION OF AN ACCREDITED RTA TRAFFIC CONTROLLER
- 2. ALL TRAFFIC CONTROL WORKS SHALL ONLY BE CARRIED OUT BY ACCREDITED RTA TRAFFIC CONTROLLERS.

### REINFORCED CONCRETE

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600, THE SAA STANDARDS CITED IN AS3600, THE DRAWINGS AND THE SPECIFICATION.
- 2. ALL CONCRETE SHALL BE 80nm SLUMP, 20nm MAXIMUM AGGREGATE WITH NO ADMIXTURES OR FLY ASH, UNLESS APPROVED BY THE ENGINEER. ALL CONCRETE TO HAVE TYPE SL PORTLAND CEMENT WITH NO FLY ASH.
- CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR APPROVED BY THE ENGINEER.
- REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
- 5. WELDING OR SPLICES IN REINFORCEMENT SHALL BE USED ONLY IN POSITIONS APPROVED BY THE ENGINEER.
- 6. CONCRETE CURING SHALL BE IN ACCORDANCE WITH AS3600, CURING SHALL BE COMMENCED WITHIN TWO HOURS OF FINISHING OPERATIONS AND SHALL BE CONTINUED FOR A MINIUM OF SEVEN DAYS BY AN APPROVED PROPRIETARY COMPOUND OR BY REEPING CONTINUOUSLY WET.
- 7. FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS3610. FORMWORK SHALL NOT BE STRIPPED NOR PROPS REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.
- 8. FABRIC LAP DETAILS SHALL BE IN ACCORDANCE WITH DRAWINGS 9. HOOKS, LAPS AND BENDS SHALL BE IN ACCORDANCE WITH AS3600 UNO.

### 10. THE CONCRETE STRENGTH SHALL COMPLY WITH THE

FOLLOWING:

CONTENT (kg/m ) NOM MAX GRADE AGGREGATE DESIGNATION SLUMP (mm) ELEMENT SIZE (mm (Mpa) REINFORCE 360 80 SL32 20 MASS 260 80 20 N20 PILES 80 N40 360 20

### 11. NO PENETRATIONS, RECESSES OR CHASES OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS

### 12. ALL EDGES TO HAVE 20mm CHAMFERS. WHERE VISIBLE IN THE FINISHED WORK.

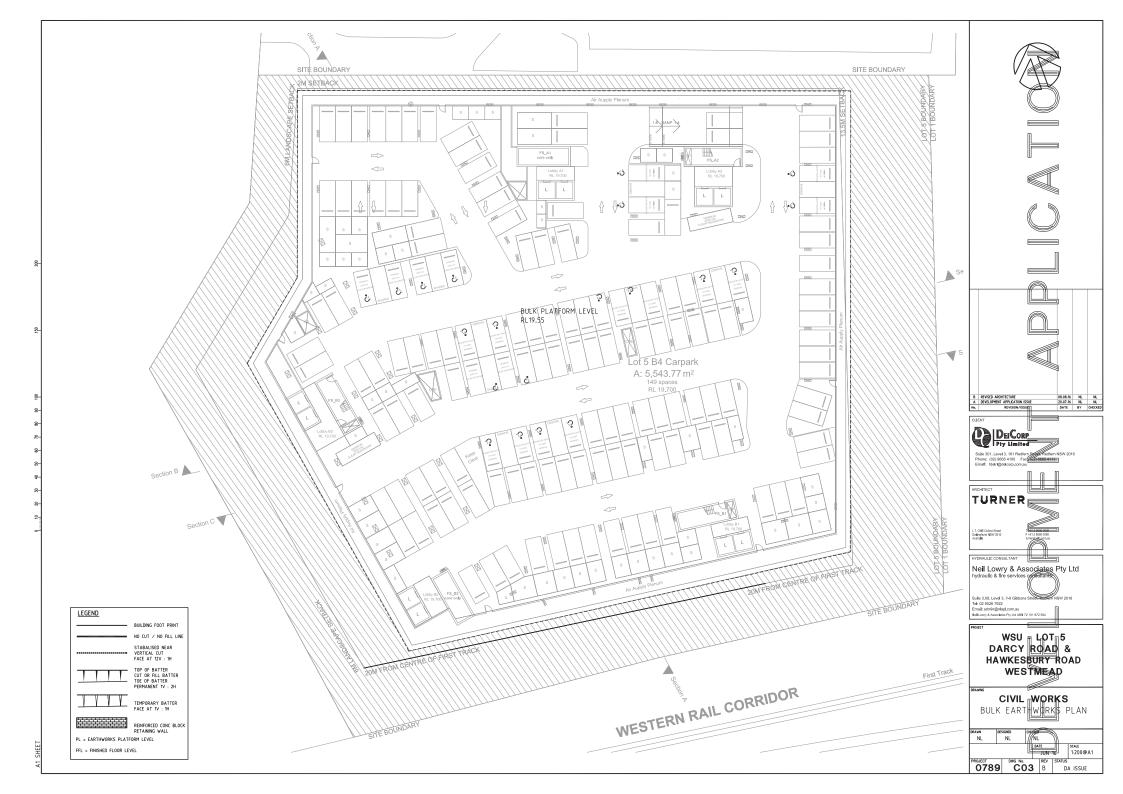
ALL CHEMICAL ANCHORS SHALL BE EITHER 'CHEMSET' BY "RAMSET" WITH THE GLASS CAPSULE SYSTEM INSTALLED N STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTION

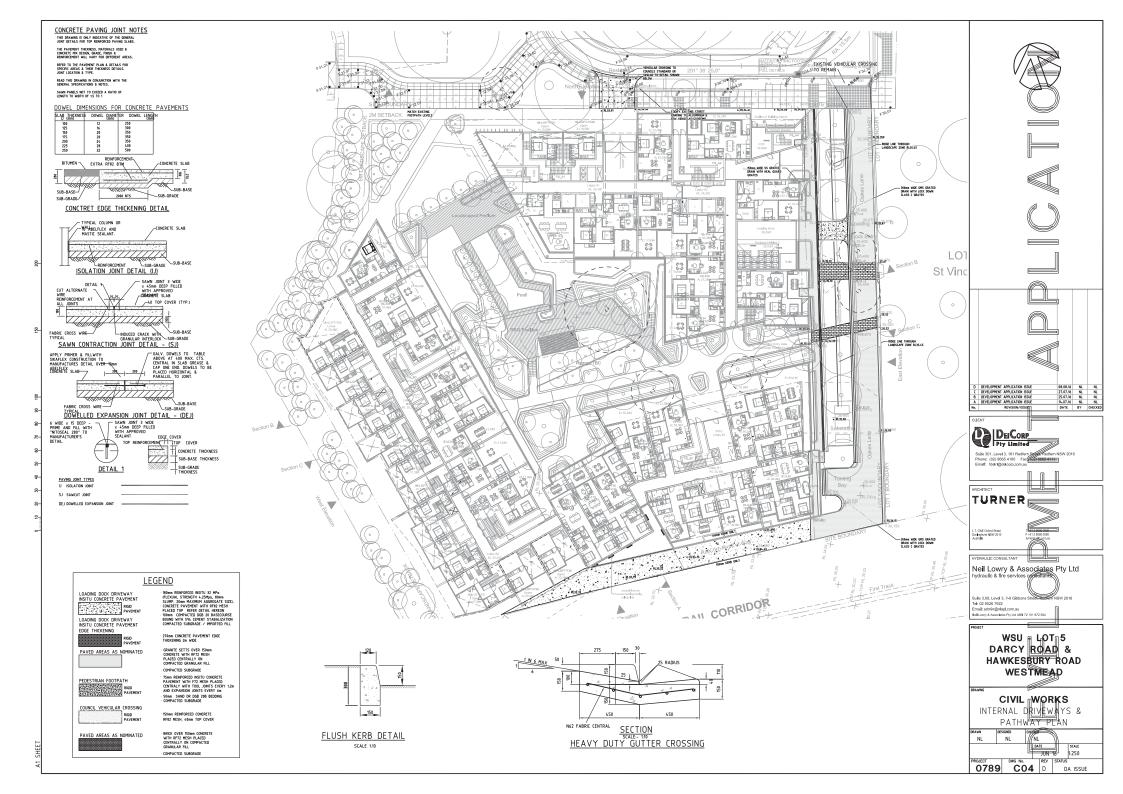
## OR HIT I HVU ADHESIVE ANCHOR WITH FOIL CAPSULE SYSTEM INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTION. ALL CHEMICAL ANCHORS SHALL BE HOT DIPPED GALVANZED AND BE HIM HIM DIA. U.N.O.

TRAFFIC CONTROL DEVICES

DEVELOPMENT APPLICATION ISSUE CHEN Suite 301, Level 3, 161 Rec hone: (02) 8665 4100 Fax 8665-4111-Email: fdelrigtdelcorp.c Ш HE \_\_\_\_ 7, ONE Oxford Street Definisherst NSW 2010 Australia Neil Lowry & Associates Pty Ltd uite 3.09, Level 3, 7-9 Gibbons S Tel: 02 9526 7922 Email: admin@nlapl.com.au Nell Lowry & Associates Pty Ltd ABN 72 101 872 58 WSU R LOT 5 WESTMEAD NL NL /// NL OCT OF

# 20.07.16 NL NL DATE BY CHECK m NSW 2016 DARCY ROAD & HAWKESBURY ROAD **CIVIL** WORKS SPECIFICATION NOTES SCALE REV 0789 CO2 A DA ISSUE





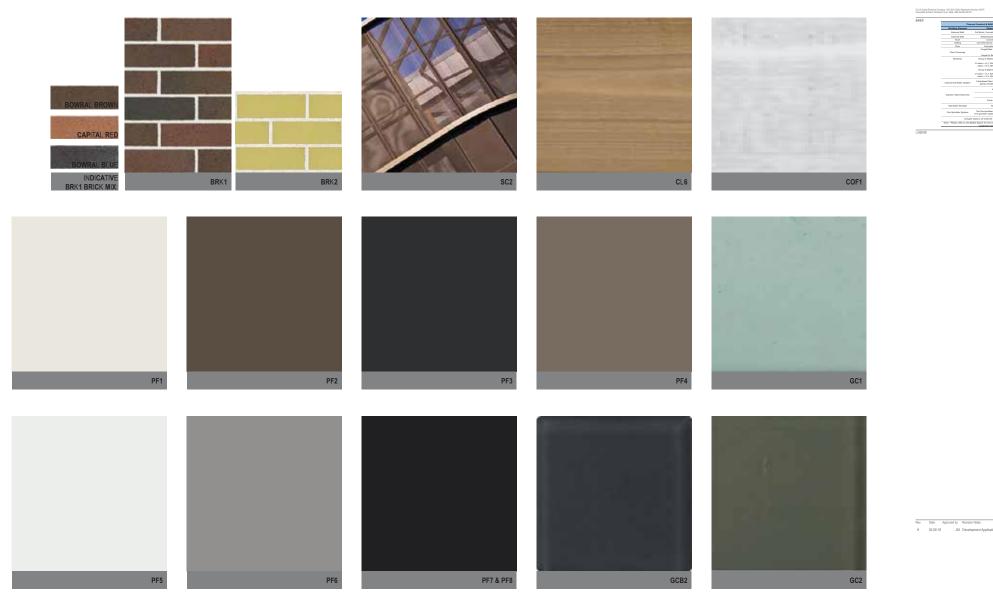
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Rev. Date Approved by Revision Notes H 02.08.16 JM Development Application



cuerr Deicorp Level 3, 161 Redfern Street, Redfern NSW 2016, Australia

Project Title WSU - Lot 5 158-164 Hawkesbury	Road, 2a Darcy Road Westme	ad NSW 2145	5 Australii
Drawing Title Materials Board			
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Materials Board Materials and F	Project No. 16001	Drawn by turner	North

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Elevation/ Section Legend							
(BAL1) Balcatrode Type 1: Serri-Frameless clear glass balcatrode. Framing system, finish to maids PF8	CL3 Cladding Type 3 Profiled metal cladding, colour to match FPG	COF) Concells, of form Clear finish or to landscape architect specification	Louver Type 1: Clear fixed open glass louve system similar to Dreaseway	Louves Type 6: Fixed vertical louves system. Aluminium, finish to match PFB	Paint Finah Type 1: Natural White Finish to match Datus Natural White'	PF6 Paint Finals Type 6: Finals to match Dulax 'Flooded Gun'	Scone Type 3: Medial lowered scorer with integrated planting at mechanical at inteles. Colour to match IPT4
(A42) Balcatede Type 2: Serri-Framéleas clear glass balcatede fixed to sold spantinel paralityampet wall. Framing system, fisis in orach PTR	CL4 Clading Type 4: FC dadding, colour to match PF3	GC1 Glass, Glass, Type 1: Glass, class, to Basic and Acouatic report requirements. Aluminium framing system, finish to match PTS	Louver Type 2 Accualic tonizontal louver system. Metal, timber effect finals	Lown Type 7: Fixed horizontal loanse system. Aluminium, finish to match PFS	PF2 Paint Finish Type 2 Nadium Beige Finish to match Datas 'Herold'	PF7 Pater Final Type 7: Final to match FF8	Score Type 4: Metal formed shedding structure with timber balance
BAL3) Balastrade Type 3: Vertical metal balastrade, powder cost finish to match PTS	CLS Clading Type 5: Melai cladding, colour to match PP1	Gass, Clear, Type 2: Gass, Ight broose linked, to Basix and Acoustic report requirements. Austicum framing system, finish to match PF4	Loare Type 2: Accusic horizontal loare system. Metal powder coated finish to match PPS	Lower Type 8: Ford vertical lower avalant. Timber frish to match GL6	Paint Relati Type 3: Dark Grey Finish to match Data: "Domino"	PFB Paint Final Type 8: Finish to match Dukx powder coal 'Black Ace'	BOX) Brick Type 1: Face brick similar in colour to Bownil 'Shorthom Mar
Cit.1 Cladding Type 1: Metal cladding, colour to match FP4	CL6 Clading Type I: Tenber plastic composite cladding, acoustic living to balconysides and soffit, "spotled gurn" finish	Gass, Colourback, Type 1: Gass, Light Bronze, Io Basis and Accustic report requirements. Aluminium framing system, finish to match PF4	Loare Type 4: Field vertical loare system. Auminium, finish to match PF4	Pocal Concrete Type 1: Procast Concrete. Pinish: penetrating low maintenance alse finish equal to Keim concrete Laser system, to mainte PF1	Prior Finish Type 4: Finish to match Dulux Bactro 'Shimmering Champere' powder coat	GC1 Screen Type 1: Tenber balten fence, finish similar to Cedar	Brick Type 2: Glazed fore brick to address landscaped areas, to future selector
CL2 Clading Type 2: Netal clading, colour to match FFB	CL7 Clading Type 7: Polished stateless sheet clading	Gass, Colourback, Type 2 Gass, Dark Gay, Io Basix and Acoustic report requirements. Alaminium framing system, finish to match PFB	Loare Type 5: Fixed vertical loare system. Aluminium, finish to match PPS	PC2 Prezait Concrete Type 2: Prezait Concrete. Printh: penetrating low maintenance stain finish equal to Kaim concrete Lasur system, to match PF7	Patel Fisish Type 5: Fisish to match Datas That White' powder coal	Screen Type 2 Architectural metal mesh screen to comply with Railcop reculaments	