

NOTES:

TOTAL = 2494.1 m2 IMPERVIOUS = 1505.9 m2 (60.4%)PERVIOUS = 988.2m2 (39.6%)

OSD SIZING BASED ON GEORGES RIVER COUNCIL STORMWATER MANAGEMENT POLICY 2021 TABLE 3: SSR = 51.4 m3 PSD = 45.4 L/sCAN HAVE UP TO 20% OFFSET FOR OSD STORAGE FOR RWT RE-USE USAGE

1% AEP FLOOD LEVEL (TAILWATER) - RL 27.38

OSD 1: TOTAL AREA = 1803.8 m2 (72.3%) SSR = 37.2 m3 PSD = 32.8 L/sBYPASS = 141.3 m2 (0% IMPERVIOUS) BYPASS PSD = 5.6 L/sREMAINING OSD 1 PSD = 27.2 L/s

OSD 2: TOTAL AREA = 690.3 m2 (27.7%)SSR = 14.2 m3PSD = 12.6 L/sBYPASS = 125.4 m2 (28.7% IMPERVIOUS)BYPASS PSD = 4.8 L/sREMAINING OSD 1 PSD = 7.8 L/s

HAVE 27.7% OF OSD STORAGE BELOW 1% AEP FLOOD LINE (DROWNED ORIFICE). THIS IS BELOW THE 30% AS OUTLINED IN GEORGES RIVER COUNCIL STORMWATER MANAGEMENT POLICY 2021 SECTION 4.13



Proposed Seniors Housing Development

10-14 Munmurra Road and 5 Bernadotte St Riverwood NSW 2210

Custance Associates Australia Pty

Ltd



NOTES:

- ALL BALCONIES TO BE PICKED UP VIA RAINWATER OUTLETS WITH AN ADEQUATE OVERFLOW SYSTEM

- ALL BALCONIES TO HAVE THRESHOLD DRAINS

- ALL RAINWATER OUTLETS TO CONNECT INTO THE MAIN STORMWATER LINE PROPOSED AT GROUND LEVEL



N0221293

CSK02G

DRAWING REVIEWED BY Scott McMillan Civil Manager B.E. Civil (Hons) MIEAust CPEng NER 2465653

Proposed Seniors Housing Development

Ltd



NOTES:

Π

STREET

1 DA-007

- ALL GUTTERING TO BE EAVES GUTTER UNLESS SPECIFIED OTHERWISE

- DOWNPIPES AND EAVES GUTTERS TO BE SIZED DURING CC STAGE

- DOWNPIPE LOCATIONS ARE INDICATIVE AND SUBJECT TO CHANGE



N0221293

CSK03G

DRAWING REVIEWED BY

Scott McMillan Civil Manager B.E. Civil (Hons) MIEAust CPEng NER 2465653



		DJA	CIVIL SKETCH	Proposed
JIN	SI7E	A 1		
ponsive Engineering	SCALE	1:200	VVSUD PLAN	Bernadotte St River
s document is issued by td (ABN 51 003 316 032)	PROJECT M	GR GC		Custance Associa

Legend		
Description	Quantity	Unit
D 1 BYPASS	141.33	sq m
1 DRIVEWAY	322.06	sq m
1 PERVIOUS	466.31	sq m
AINING IMPERVIOUS	117.63	sq m
D 2 BYPASS	120.69	sq m
2 DRIVEWAY	100.61	sq m
2 PERVIOUS	277.79	sq m
AINING IMPERVIOUS	84.83	sq m
AINING ROOF	111.42	sq m
OF TO RWT	751.74	sq m

	Sources	Residual Load	% Reduction
	2. <mark>4</mark> 7	2.34	5.2
r)	339	59.1	82.6
	0.763	0.345	54.8
	5.8	3.47	40.2
	54.4	1.44	97.4

PROPOSED SENIORS DEVELOPMENT 10-14 Munmurra Road & 5 Bernadotte Street, Riverwood NSW 2210

- ENVIRONMENTAL SITE MANAGEMENT 1. EROSION & SEDIMENT CONTROLS TO BE INSTALLED IN ACCORDANCE WITH COUNCIL'S
- SPECIFICATION & THE NSW DEPARTMENT OF HOUSING "BLUE BOOK" SOILS AND CONSTRUCTION - MANAGING URBAN STORMWATER, 2004. REFER TO THE BLUE BOOK FOR STANDARD DRAWINGS "SD" 2. SEDIMENT & EROSION CONTROLS MUST BE IN PLACE PRIOR TO THE COMMENCEMENT OF
- ANY EARTHWORKS OR DEMOLITION ACTIVITY. THE LOCATION OF SUCH DEVICES IS INDICATIVE ONLY AND FINAL POSITION SHOULD BE DETERMINED ON SITE.
- 3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL MEASURES ARE TAKEN DURING THE COURSE OF CONSTRUCTION TO PREVENT SEDIMENT EROSION AND POLLUTION of the downstream system. Supervising engineer should be contacted if in DOUBT. ALL SEDIMENT CONTROL STRUCTURES TO BE INSPECTED AFTER EACH RAINFALL EVENT FOR STRUCTURAL DAMAGE AND ALL TRAPPED SEDIMENT TO BE REMOVED TO A NOMINATED SOIL STOCKPILE SITE.
- 4. RETAIN ALL EXISTING GRASS COVER WHEREVER POSSIBLE. TOPSOIL FROM ALL AREAS THAT WILL BE DISTURBED TO BE STRIPPED AND STOCKPILED AT THE NOMINATED SITE. A SEDIMENT FENCE TO BE PLACED DOWNHILL OF STOCKPILE. 5. AREAS OF SITE REGRADING ARE TO BE COMPLETED PROGRESSIVELY DURING THE WORKS
- AND STABILISED AS EARLY AS POSSIBLE. THE SUPERVISING ENGINEER MAY DIRECT THE CONTRACTOR TO HAVE AREAS OF DISTURBANCE COMPLETED AND STABILISED DURING THE COURSE OF THE WORKS.
- 6. ALL DISTURBED AREAS ARE TO BE SEEDED & FERTILISED WITHIN 14 DAYS OF EXPOSURE. 7. ALL EXISTING TREES TO BE RETAINED UNLESS SHOWN OTHERWISE ON APPROVED DRAWINGS. TREES RETAINED ARE TO BE PROTECTED WITH A HIGH VISIBILITY FENCE, PLUS FLAGGING TO INDIVIDUAL TREES AS NECESSARY.
- 8. INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADEN WATER, UNTIL SURROUNDING AREAS ARE PAVED OR REGRASSED. GRAVEL OR GEOTEXTILE INLET FILTERS TO SD6-11 & SD6-12.
- 9. ALL SILT FENCES & BARRIERS ARE TO BE MAINTAINED IN GOOD ORDER & REGULARLY DESILTED DURING THE CONSTRUCTION PERIOD. SILT FENCES TO SD6-8 OR SD6-9. 10. STOCKPILES OF LOOSE MATERIALS SUCH AS SAND, SOIL, GRAVEL MUST BE COVERED WITH GEOTEXTILE SILT FENCE MATERIAL. PLASTIC SHEETING OR MEMBRANE MUST NOT BE USED.
- SAFETY BARRICADING SHOULD BE USED TO ISOLATE STOCKPILES OF SOLID MATERIALS SUCH AS STEEL REINFORCING, FORMWORK AND SCAFFOLDING. 11. WASTE MATERIALS ARE TO BE STOCKPILED OR LOADED INTO SKIP-BINS LOCATED ON SITE AS
- SHOWN ON PLAN. 12. NO MORE THAN 150m OF TRENCHING TO BE OPEN AT ANY ONE TIME. IMMEDIATELY AFTER TRENCH BACKFILLING, PROVIDE SANDBAGS OR SAUSAGE FILTERS ACROSS EACH TRENCH AT MAXIMUM 20m SPACINGS. FILTERS TO REMAIN IN PLACE UNTIL REVEGETATION HAS OCCURRED.
- 13. ALL VEHICLES LEAVING THE SITE MUST PASS OVER THE STABILISED SITE ACCESS BALLAST AREA (SIMILAR TO SD6-14) TO SHAKE OFF SITE CLAY AND SOIL. IF NECESSARY WHEELS AND AXLES ARE TO BE HOSED DOWN. BALLAST IS TO BE MAINTAINED & REPLACED AS NECESSARY DURING THE CONSTRUCTION PERIOD.
- 14. THE HEAD CONTRACTOR IS TO INFORM ALL SITE STAFF AND SUB-CONTRACTORS OF THEIR OBLIGATIONS UNDER THE EROSION AND SEDIMENT CONTROL PLAN.
- 15. ANY SEDIMENT DEPOSITED ON THE PUBLIC WAY, INCLUDING FOOTPATH RESERVE AND ROAD SURFACE, IS TO BE REMOVED IMMEDIATELY.
- 16. PROVIDE BARRIERS AROUND ALL CONSTRUCTION WORKS WITHIN THE FOOTPATH AREA TO PROVIDE SAFE ACCESS FOR PEDESTRIANS.
- 17. CONCRETE PUMPS AND CRANES ARE TO OPERATE FROM WITHIN THE BALLAST ENTRY DRIVEWAY AREA AND ARE NOT TO OPERATE FROM THE PUBLIC ROADWAY UNLESS SPECIFIC COUNCIL PERMISSION IS OBTAINED. 18. DELIVERY VEHICLES MUST NOT STAND WITHIN THE PUBLIC ROADWAY FOR MORE THAN 20
- MINUTES AT A TIME. 19. TRUCKS REMOVING EXCAVATED / DEMOLISHED MATERIAL SHOULD TRAVEL ON STABILISED CONSTRUCTION PATHS. MATERIAL TO BE TAKEN TO THE TRUCK TO REDUCE TRUCK MOVEMENT ON SITE. TRUCKS TO BE LIMITED TO SINGLE UNIT HEAVY RIGID VEHICLES. (NO
- SEMITRAILERS 20. ANY EXCAVATION WORK ADJACENT TO ADJOINING PROPERTIES OR THE PUBLIC ROADWAY IS NOT TO BE COMMENCED UNTIL THE STRUCTURAL ENGINEER IS CONSULTED AND SPECIFIC
- INSTRUCTIONS RECEIVED FROM THE ENGINEER. 21. TOILET FACILITIES MUST BE EITHER A FLUSHING TYPE OR APPROVED PORTABLE CHEMICAL CLOSET. CHEMICAL CLOSETS ARE TO BE MAINTAINED & SERVICED ON A REGULAR BASIS SO
- THAT OFFENSIVE ODOUR IS NOT EMITTED. 22. DURING TRENCH EXCAVATION ALL SPOIL SHALL BE MOUNDED ON THE UPHILL SIDE OF TRENCHES AND PLACEMENT IS TO COMPLY WITH THE SUPERINTENDENTS REQUIREMENT.
- 23. DIVERSION BANKS SHOULD BE CONSTRUCTED BY MOUNDING STRIPPED TOPSOIL (MIN HEIGHT 600mm) WHERE DIRECTED. MATERIAL TO BE RESPREAD ON FOOTWAYS AFTER FINAL TRIMMING. 24. UNDISTURBED BUFFER ZONE AREAS ARE CLOSED TO ALL TRAFFIC MOVEMENTS UNLESS
- OTHERWISE NOTED BY THE SUPERINTENDENT AND ACCESS TO THE SEWER OR C.D.L. TRENCHING WILL BE AS SHOWN, OR HEAVY PENALTIES MAY BE IMPOSED. 25. TRAFFIC MANAGEMENT MEASURES ARE REQUIRED TO BE IMPLEMENTED AND MAINTAINED
- DURING CONSTRUCTION. IN ACCORDANCE WITH 'R.T.A. TRAFFIC CONTROL AT WORK SITES current edition' and as 1742 'manual of uniform traffic control devices 26.PEDESTRIAN CONTROL MEASURES ARE REQUIRED TO BE IMPLEMENTED AND MAINTAINED DURING CONSTRUCTION. IN ACCORDANCE WITH AS 1742 'MANUAL OF UNIFORM TRAFFIC
- CONTROL DEVICES.'

ENVIRONMENTAL SITE MANAGEMENT LEGEND		
SYMBOL	DESCRIPTION	
	PROPOSED BUILDING LINE	
	PROPOSED BUILDING ROOF OUTLINE	
	PROPRIETARY SILT FENCE	
	PROVIDE TEMPORARY CHAIN WIRE FENCING (HOARDING) ALONG THE SITE BOUNDAR	
	TEMPORARY STABALISED CONSTRUCTION ENTRY/EXIT. (SHAKER PAD)	
	TEMPORARY FILTER TUBE WITH SAFETY BARRICADE TO KERB INLET PITS.	
	TEMPORARY MASS CONCRETE FOOTPATH CROSSING.	
	DIRECTION OF FLOW	
	DIVERSION BANK	
	SURFACE INLET DRAINAGE PIT WITH SURROUNDING FILTER FABRIC INLET SEDIMENT TRAP OR FILTER TUBES (SANDBAGS)	
	TEMPORARY GEOTEXTILE WRAPPED HAY BALES/SAND BAGS	
℃	SANDBAG SEDIMENT INLET TRAP	
~~	SANDBAG KERB SEDIMENT TRAP	











SCALE 1:20



Job No. N0221293

	DESIGN	DJA	CIVIL SKETCH	Proposed
esponsive Engineering	DATE	13/06/2024		Develop
	SIZE	A1	esm site plan	10-14 Munmurra Bernadotte St River
	SCALE	AS SHOWN		
nis document is issued by Ltd (ABN 51 003 316 032)	PROJECT /	MGR GC		Custance Associat



N0221293

Senior oment

Road and 5 wood NSW 2210

tes Australia Pty



ESM SITE PLAN

Proposed Senior Development

10-14 Munmurra Road and 5 Bernadotte St Riverwood NSW 2210

Custance Associates Australia Pty Ltd

Inis document is issued by Jones Nicholson Pty Ltd (ABN 51 003 316 032) PROJECT MGR

SCALE 1:200 GC

