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DRAWING LIST					
DRAWING NUMBER	DRAWING TITLE				
427623-003-MMD-DA-XX-DRG-C-0001	Cover Sheet				
427623-003-MMD-DA-XX-DRG-C-0020	Sediment and Erosion Control Plan				
427623-003-MMD-DA-XX-DRG-C-0021	Sediment and Erosion Control Details				
427623-003-MMD-DA-XX-DRG-C-0030	Earthworks Cut and Fill Plan				
427623-003-MMD-DA-XX-DRG-C-0035	Siteworks and Drainage Plan				
427623-003-MMD-DA-XX-DRG-C-0040	Basement Level 5 Drainage Plan				
427623-003-MMD-DA-XX-DRG-C-0050	Water Quality Catchment Plan				
427623-003-MMD-DA-XX-DRG-C-0060	On-site Detention Section and Details				
427623-003-MMD-DA-XX-DRG-C-0061	Stormwater & Sewer Pump Station Details				
427623-003-MMD-DA-XX-DRG-C-0065	Combined Services Plan				

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Ch'k'd App'd

FIVE WAYS TRIANGLE, CROWS NEST

391-423 Pacific Hwy, 3-15 Falcon St & 8 Alexander St Crows Nest NSW 2065

Cover Sheet

Issue for Modification to SSDA 66826207 **Revision Date:** 16/05/2025 Revision: P6



Locality Plan



DRAWING INFORMATION	
Drawn: J.Garbo	Revision: P6
Designed: S.Saiara Checked: A.Tarshan	Status: FOR APPROVAL
Approved: D.Fettell	Security: STD
DRAWING NUMBER	
427623-003	-MMD-DA-XX-DRG-C-0001



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TITLE **DRP** Five Ways Triangle Crows Nest, NSW, 2065 Sediment and Erosion Contr

20m

CLIENT

LEGEND

SEDIMENT AND EROSION PLAN

	PROPOSED SITE BOUNDARY
X	CONSTRUCT TEMPORARY SEDIMENT FENCE
\bigcirc	INSTALL SANDBAG SEDIMENT TRAPS
	CONSTRUCT TEMPORARY STABILISED SITE ENTRY WITH SHAKER GRID
	TEMPORARY FLOCCULATION AND PUMP SYSTEM
	INDICATIVE LOCATION OF STOCKPILE
SW	TEMPORARY DISCHARGE PIPE

NOTES

- 1. CONTRACTORS TO CONFIRM PUMP-OUT FROM DEEP BASEMENT EXCAVATION.
- 2. UPON INSTALLATION OF NEW STORMWATER PITS, SAND BAGS ARE TO BE PLACED AROUND THE PROPOSED PITS TO PREVENT ANY SEDIMENT RUNOFF TO THE PITS.
- 3. EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH THE PUBLICATION ' URBAN STORMWATER SOILS AND CONSTRUCTION "THE BLUE BOOK" 2004 (4TH EDITION)' PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION, EXCAVATION OR CONSTRUCTION WORKS UPON THE SITE.
- 4. BUILDERS SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE BOUNDARIES. SEDIMENT CONTROL FABRICSHALL BE AN APPROVED MATERIAL (Eg. PROFAB SILT FENCE, OR SIMILAR) STANDING MINIMUM 500mm ABOVE GROUND AND EXTENDING 200mm BELOW GROUND.
- 5. GRASS VERGES AND VEGETATION SHALL BE MAINTAINED AS MUCH AS PRACTICAL AND SHALL NOT BE CLEARED FROM NEIGHBORING SITES TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
- 6. NO PARKING OR STOCK PILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
- 7. VEHICLE ACCESS SHALL BE RESTRICTED TO ONE DESIGNATED POINT AS SHOWN, AND VEHICLE CROSSINGS ARE TO BE ADEQUATELY COVERED AT ALL TIMES WITH BLUE METAL OR THE LIKE.
- 8. TEMPORARY CONSTRUCTION ENTRY/EXIT SHALL BE AS PER DRAWING ON DRAWING 0021. BUILDER TO ENSURE ALL DROPPABLE SOIL AND SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE USING VEHICLE WHEEL WASH, CATTLE GRID, WHEEL SHAKER OR OTHER APPROPRIATE DEVICE. BUILDER SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING AND LEAVING THE SITE, DO SO, IN A FORWARD DIRECTION.
- 9. ALL STORMWATER INCIDENT ON THE CONSTRUCTION SITE MUST BE COLLECTED AND APPROPRIATELY DISPOSED OF IN A MANNER THAT DOES NOT INCREASE THE FLOOD RISK FOR THE CATCHMENT AREA OR DEGRADE THE QUALITY OF WATER BEING DISPOSED OF TO COUNCIL STORMWATER INFRASTRUCTURE.
- 10. MEASURES OUTLINED IN THE EROSION AND SEDIMENT CONTROL PLAN MUST BE IMPLEMENTED PRIOR TO AND MAINTAINED DURING AND AFTER THE CONSTRUCTION WORKS.
- 11. ALL DISTURBED AREAS AND STOCKPILES TO BE STABILISED WITHIN 5 DAYS.
- 12. TOPSOIL TO BE STRIPPED STOCKPILED AND RE-SPREAD ON COMPLETION OF EARTHWORKS. NONE TO BE REMOVED.
- 13. NO DISTURBANCE OF THE SITE OTHER THAN IMMEDIATE AREA OF WORKS.

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	DRAWING INFORMATION	DRAWING INFORMATION					
	Drawn: J.Garbo	Revision: P6	41mm				
	Designed: S.Saiara		X 84				
trol Plan	Checked: A.Tarshan	Status: FOR APPROVAL	594				
	Approved: D.Fettell	Security: STD	A1				
	DRAWING NUMBER		ISO /				

427623-003-MMD-DA-XX-DRG-C-0020

Soil and Water Management Notes

		-	
General	Instructions		
SWM01	These plans present a conceptual soil and water management plan (SWMP) only and shows a possible way of managing soil and erosion. The contractor shall be responsible for the establishment and management of the site and preparing a detailed plan and obtaining approval from the relevant authority prior to the commencement of any works.	SWM14	possibl Other t turf gra other ti months
SWM02	This plan is to be read in conjunction with the engineering plans and any other plans, written instructions, specification or documentation that may be issued and relating to development of the subject site.	SWM15	
SWM03	The contractor will ensure that all soil and water management works are consistent with 'Managing Urban Stormwater - Soils and Construction' - also known as 'The Blue Book'.	Construc	engine that lar
SWM04	All builders and sub-contractors shall be informed of their responsibilities in minimising the potential for soil erosion and pollution to downslope lands and waterways.	SWM16	
Erosion ((i)	Install i
SWM05	Water shall be prevented from entering the permanent drainage system until sediment concentration is less then or equal to 50mg/L, ie the catchment area has been permanently landscaped and / or any likely sediment has been filtered through an approved structure.	(ii)	Install a attach at the t instruct
SWM06	Any sand used in the concrete curing process (spread over the surface) will be removed as soon as possible and within 10 working days from placement.	(iii)	Install g permar the pla
SWM07	Acceptable receptors will be constructed for concrete and mortar slurries, paints, acid washings, light-weight waste		Constru plan or
SWM08	materials and litter. 'Sediment' fencing will be installed as indicated on the plans and at the direction of site superintendent to ensure	(v)	Install c rehabili 20 wor
	containment of sediment. The sediment fencing will outlet or overflow under stabilised conditions into the sediment basin, to safely convey water into a suitable filtering system should the pores in the fabric block.	(vi)	Ensure and dra may be Constru- sedime
SWM09	Stockpiles should not be located within 5m of trees and hazard areas, including likely areas of concentrated or high velocity flows such as waterways, drainage lines, paved areas and driveways. Where they are within 5m from such areas, special sediment control measures should be taken to minimise possible pollution to downstream waters. Measures	(vii) SWM17	At comp and all Tempo remove
SWM10	should also be applied to prevent the erosion of the stockpile. All cut and fill batters are to be seeded and mulched within 14	SWM18	rehabili
SWM11	days of completion of formation. Any existing trees which form part of the final landscaping		and wit activitie
	plan will be protected from construction activities by-	Site Insp	
	 a. Protecting them with barrier fencing or similar materials installed outside the drip line, b. Ensuring that nothing is nailed to them, c. Prohibiting paving, grading, sediment wash or placing of stockpiles within the drip line except under the following 	SWM19 (At leas will ins i) Drai effe
	conditions,(i) Encroachment only occurs on one side and no closer to the trunk than either 1.5 metres or half the distance	(ii) Rec was emp
	(ii) A drainage system that allows air and water to circulate through the root zone (e.g. a gravel bed) is placed under	(mar iii) Spil area velo
	(iii) Care is taken.	(and iv) Sedi
SWM12	During windy weather, large disturbed unprotected areas should be kept moist (not wet) by sprinkling with water to keep dust under control.	, , , , , , , , , , , , , , , , , , ,	, thar dist in th disp land
SWM13	Temporary protection from erosive forces will be undertaken on lands where final shaping has not been completed but works are unlikely to proceed for periods of two months or more (eg. on topsoil stockpiles). This may be achieved with a vegetative cover. A recommended listing of plant species for	(v) Reh haz
	temporary cover is -	SWM20	The co
	 i) autumn/winter sowing ii) spring/summer sowing iii) sprin		

Note: This plan is a concept only. It is created to highligh some of the sediment and erosion control measures which may appear. The contractor is responsible for the final design and ensuring all measures are taken to protect the environment.

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ion banks / channels will be rehabilitated as soon as ble and within 5 working days from their final shaping. than in the winter months, suitable materials include asses such as Couch or Kikuyu. During winter, or at imes when temporary rehabilitation (more than 3 s) is required, it is suggested that hessian cloth is used ly if tacked with appropriate pegs and an anionic n emulsion. Foot and vehicular traffic should be kept from these areas.

take site development works in accordance with the eering plans. Where possible, phase development so nd disturbance is confined to areas of workable size.

quence

- practical, the soil erosion hazard on the site should t as low as possible. To this end, works should be aken in the FOLLOWING SEQUENCE -
- nlet sediment traps to all gully pits fronting the site,
- a 1.8m chain wire fence around the boundaries and hessian cloth or similar to it on the windward side (ties top, centre and bottom and at 1m intervals or as ted by the superintendent),
- peofabric sediment fence and sediment traps around all nent stormwater reticulation structures as shown on n
- uct stabilised construction entrance as shown on the r to location as determined by superintendent,
- diversion banks along the boundary where required, itate disturbed lands downslope from the basins within king days,
- that the sediment basin is directed onto a turfed area ains to a suitable location. A temporary stormwater line e necessary to convey the flows to this location. ruct diversion channels at the boundary to drain into the ent basin as shown on plans,
- pletion stabilise site and decommission sediment basin erosion control devices.
- prary soil and water management structures will be ed only after the lands they are protecting are itated
- ite landscaping will be undertaken as soon as possible ithin 20 working days from completion of construction es

and Maintenance

- st weekly and after every rain fall event, the contractor pect the site and ensure that
 - ains and all sediment control devices operate ectively and initiate repair or maintenance as required,
 - ceptors for concrete and mortar slurries, paints, acid shings, light-weight waste materials and litter are to be ptied as necessary. Disposal of waste shall be in a nor approved by the superintendent,
 - lled sand (or other materials) is removed from hazard as, including likely areas of concentrated or high ocity flows such as waterways, gutters, paved areas l driveways,
 - iment is removed from basins and / or traps when less n 20m³ of trapping capacity remain per 1000m² of urbed lands, and / or less than 500mm depth remains he settling zone. Any collected sediment will be posed in areas where further pollution to down slope ds and waterways is unlikely,
- nabilitated lands have effectively reduced the erosion zard and initiate upgrading or repair as appropriate.

ontractor shall provide all monitoring control and testing.



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ntrol Details	Drawn: J.Garbo Designed: S.Saiara Checked: A.Tarshan Approved: D.Fettell DRAWING NUMBER	Revision: P6 Status:FOR APPROVAL Security: STD				
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LEGEND

EARTHWORKS CUT AND FILL

– – – PROPOSED SITE BOUNDARY

SURVEY

PROPOSED AREA OF BASEMENT EXCAVATION

EARTHWORK VOLUMES

APPROXIMATE VOLUMES

- TOTAL CUT = -75,953 m³
- TOTAL FILL = 0.000 m^3
- BALANCE = -75,953 m³

ASSUMPTIONS

- AVERAGE EXISTING GROUND LEVEL (CALCULATED) = 97.27 mAHD
- (BASED ON SURVEY SPOT ELEVATION NO TIN PROVIDED)EXCAVATION LEVEL = 72.00 mAHD
- (1.5m BELOW BASEMENT 07 ELEVATION OF RL 73.50 mAHD)
 EXCAVATION DEPTH = 97.27 72 = 25.27m

EARTHWORK VOLUMES

ESTIMATED VOLUMES BETWEEN EXISTING SURFACE RL 97.27 AND 1.5m BELOW PROPOSED BASEMENT LEVEL 07 RL 73.50.

- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL VOLUMES PRIOR TO CONSTRUCTION
- TOPSOIL STRIPPING HAS NOT BEEN INCLUDED WITHIN
 THE VOLUME CALCULATIONS
- NO ALLOWANCE HAS BEEN MADE FOR BUILDING SLABS
 NO ALLOWANCE HAS BEEN MADE FOR CONCRETE PAVEMENT
- NO ALLOWANCE HAS BEEN MADE FOR FOOTPATH
- PAVEMENTNO ALLOWANCE HAS BEEN MADE FOR RETAINING WALL
- FOOTINGS
- VOLUMES WITHIN STORMWATER TRENCHES HAS NOT BEEN CALCULATED
- NO BULKING FACTORS HAVE BEEN APPLIED

	DRAWING INFORMATION					
	Drawn: J.Garbo Designed: S.Saiara Checked: A.Tarshan	Revision: P6 Status:FOR APPROVAL	594 x 841mm			
an	Approved: D.Fettell	Security: STD	A1 5			
	DRAWING NUMBER					
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HIGHWAY

REFER TO SEWER DESIGN PLANS (BY OTHERS) FOR DETAILS.

	20% AEP STORM EVENT		1% AEP STORM EVENT	
CATCHMENT AREA (m ²)	PRE-DEVELOPMENT FLOW (I/s)	POST-DEVELOPMENT (I/s)	POST DEVELOPMENT BYPASS FLOW (I/s)	TOTAL POS
3201	106 l/s	83	12	
Total Catchment (m ²)	Bypassing Catchment (m ²)	Bypassing Catchment %		
3201	164	5		
5201	104	5		

CLIENT 20m

DEICORP Five Ways Triangle Crows Nest, NSW, 2065 Siteworks and Drainage Plan TITLE

LEGEND

SITEWORKS AND DRAINAGE



NOTE: PERMISSIBLE SITE DISCHARGE 1 CALCULATED TO DETAIN TO 1hr 1 IN 5 YEARS ARI STORM EVENT AS PER NORTH SYDNEY COUNCIL ENGINEER ADVICE.

NOTES:

- 1. ALL PROPOSED INTERNAL STORMWATER DRAINAGE DESIGN TO CATER FOR MINOR STORM EVENT OF 5% AFP
- 2. SAFE OVERLAND FLOWPATH TO BE CATERED FOR MAJOR STORM OF 1% AEP.
- 3. ALL INTERNATL BUILDING DRAINAGE TO BE
- CONFIRMED BY HYDRAULIC CONSULTANTS.
- 4. OSD TO BE DESIGNED IN ACCORDANCE WITH THE NORTH SYDNEY GUIDELINES AND STANDARDS. 5. ALL STORMWATER DRAINAGE DETAILS ARE TO BE IN
- ACCORDANCE WITH THE NORTH SYDNEY CITY COUNCIL GUIDELINES AND STANDARDS.
- 6. DOWNSTREAM TAILWATER LEVLE FOR 1% AEP CC WATER LEVEL OF 95.89m AHD HAS BEEN ADOPTED. REFER TO STORMWATER AND FLOODING REPORT UNDERTAKEN BY MOTT MACDONALD FOR FLOOD LEVEL INFORMATION.
- 7. PROVIDE 'OCEANPROTECT' STORMFILTER CARTRIDGES OR SIMILAR, FOR WATER QUALTY. REFER TO MANUFACTURES DETAIL.

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lan	Designed: S.Saiara Checked: A.Tarshan	Status: FOR APPROVAL	594 x 8			
	Approved: D.Fettell	Security: STD	SO A1			
	DRAWING NUMBER					
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LEGEND

SITEWORKS AND DRAINAGE

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		DA-XX-DRG-C-0040	



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10m 20m

CLIENT

DEICORP Title Water Quality Catchment Pla



CATCHMENT ID	AREA	UNITS
ROOF	1625	m2
PODIUM	1412	m2
AREA BYPASSING ON-SITE DETENTION AND WATER QUALITY TREATMENT	130	m2
AREA BYPASSING ON-SITE DETENTION ONLY	34	m2
TOTAL SITE AREA	3201	m2

MUSIC MODELING ASSESSMENT RESULTS

	DRAWING INFORMATION				
	Drawn: J.Garbo	Revision: P6	841mm		
	Designed: S.Saiara	Status: FOR APPROVAL	\times		
Plan	Checked: A.Tarshan	Status. I OK AFFIXOVAL	594		
	Approved: D.Fettell	Security: STD	SO A1		
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2.5m

5m

TITLE Size Ways Triangle Crows Nest, NSW, 2065 On-site Detention Section د

	DRAWING INFORMATION		
and Details	Drawn:J.GarboDesigned:S.SaiaraChecked:A.TarshanApproved:D.FettellDRAWING NUMBER427623-003-MMD-	Revision: P6 Status: FOR APPROVAL Security: STD DA-XX-DRG-C-0060	ISO A1 594 x 841mm



Detail 1 - 10,000L Stormwater Pump Station

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DUAL SUBMERSIBLE PUMPS WITH LEVEL SENSING FLOAT SWITCHES AND GR13 STAINLESS STEEL GUIDE RAILS WITH STAINLESS STEEL LIFTING CHAIN DUTY: 2L/s@25MH

Detail 2 - 10,000L Sewer Pump Station



Drawn:J.GarboRevision:P1Designed:S.SaiaraStatus:FOR APPROVALChecked:A.TarshanSecurity:STDApproved:D.FettellStatus:FOR APPROVALDRAWING NUMBER427623-003-MMD-DA-XX-DRG-C-0061		DRAWING INFORMATION	
	p Station Details	Designed: S.Saiara Checked: A.Tarshan Approved: D.Fettell DRAWING NUMBER	Status: FOR APPROVAL Security: STD



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HIGHWAY



LEGEND

COMBINED SERVICES PROPOSED SITE BOUNDARY **SW** PROPOSED STORMWATER ee <u>v</u> EXISTING OVERHEAD ELECTRICITY ee EXISTING ELECTRICITY EXISTING TELECOMMUNICATIONS EXISTING FIBRE OPTIC TELECOMMUNICATIONS

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EXISTING RMS TRAFFIC QLD-B ----- RMS-B-----

EXISTING RMS TRAFFIC QLD-D

EXISTING LOW PRESSURE GAS MAIN

es EXISTING SEWER MAIN

esw — EXISTING STORMWATER

ew EXISTING WATER MAIN

EXISTING UNIDENTIFIED SERVICE

EXISTING ELECTRICAL CABLE JUNCTION BOX

EXISTING ELECTRICAL POLE

EXISTING ELECTRICAL POLE WITH LIGHT

EXISTING TRAFFIC SIGNAL JUNCTION

EXISTING TRAFFIC CONTROL SIGNAL

EXISTING GAS VALVE BOX

EXISTING SEWER MANHOLE

EXISTING SEWER LAMPHOLE

EXISTING SEWER VENT PIPE

EXISTING DRAINAGE MANHOLE

EXISTING DRAINAGE DOWN PIPE

EXISTING WATER STOP VALVE

EXISTING WATER METER

EXISTING WATER HYDRANT

	DRAWING INFORMATION				
	Drawn: J.Garbo	Revision: P6	41mm		
	Designed: S.Saiara	Status: FOR APPROVAL	4 x 84		
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