

LOCALITY SKETCH

# SALTWATER DEVELOPMENT

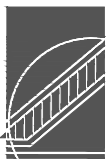
## 48 BELLE O'CONNOR ST

## SOUTH WEST ROCKS

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DRAWING No.	DESCRIPTION
13056 - DA00	COVER SHEET
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13056 - DA05	SEWER & WATER SERVICES PLAN
13056 - DA06	SEDIMENT & EROSION CONTROL DETAILS

DA2	08/03/18	FOR DA APPROVAL	KWW	RDG
REV.	DATE	REVISION	DR.BY	AP.BY

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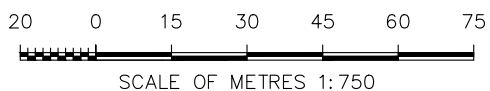
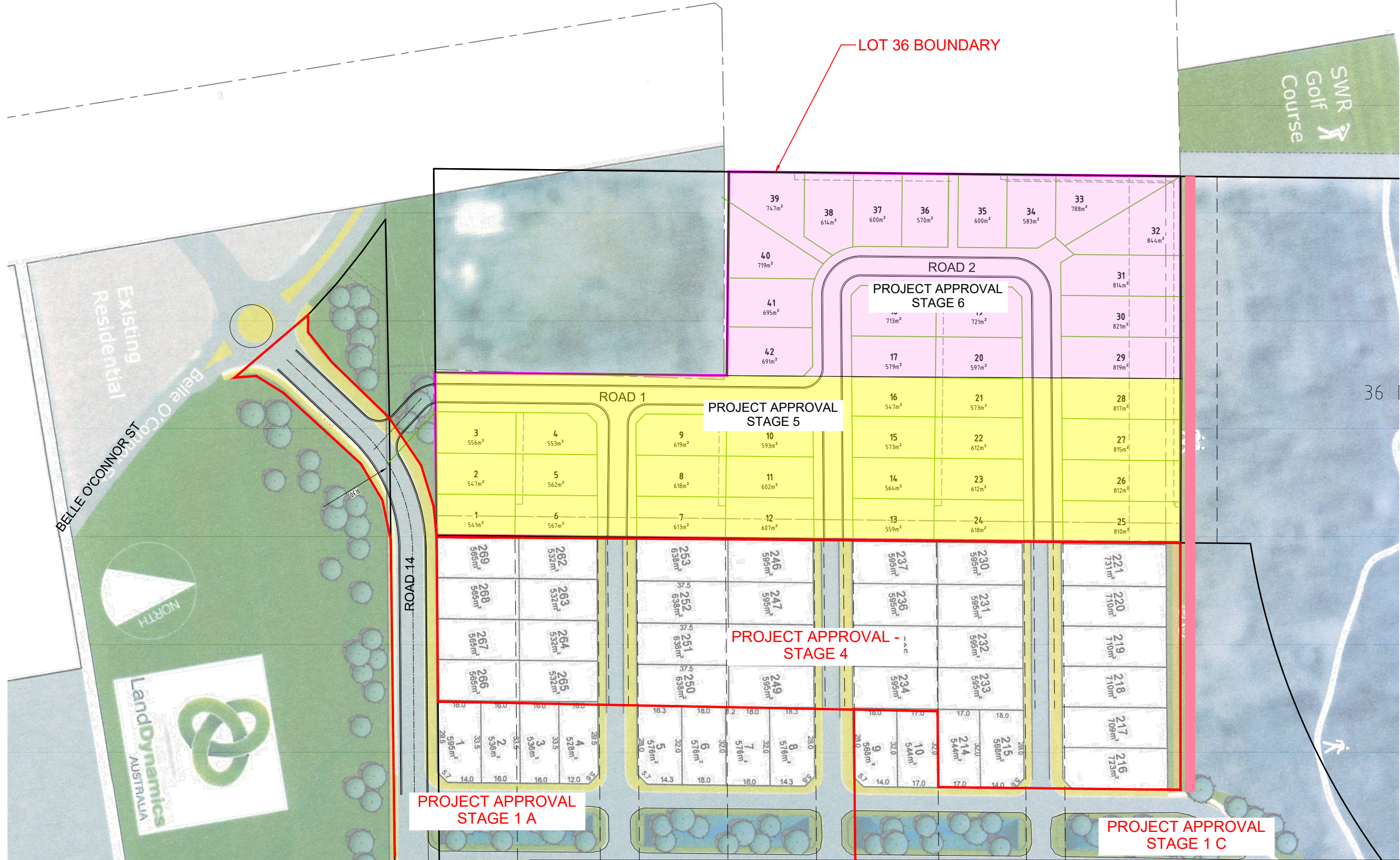
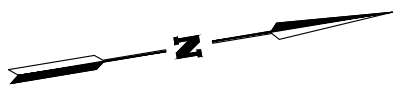
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Drawn	KWW	Designed	KWW
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Date	JAN 2017	No. of dwgs	---

Project:	SALTWATER DEVELOPMENT SOUTH WEST ROCKS, NSW
Client:	S W R Developments Pty Ltd

Title:	COVER SHEET
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Project No.	13056
Drawing No.	L36-MOD00
Amendment No.	DA2





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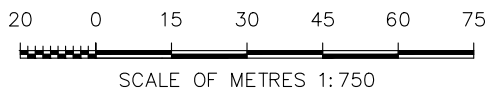
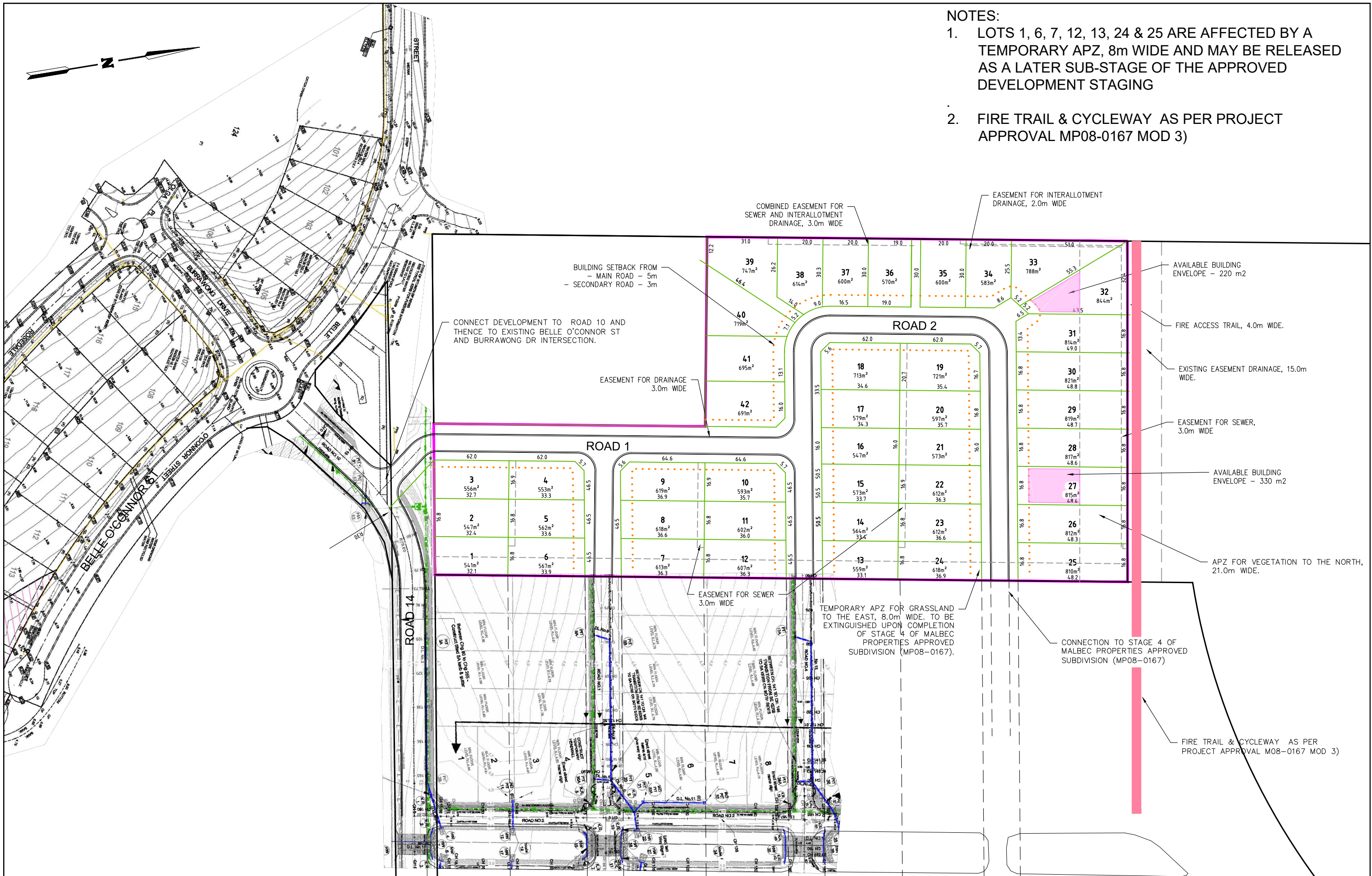
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Drawn	KWW	Designed	KWW
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		Approved	RDG
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Project:	SALTWATER DEVELOPMENT SOUTH WEST ROCKS, NSW
Client:	S W R Developments Pty Ltd

Title:	LAYOUT PLAN OVERLAIN ON EXISTING APPROVAL
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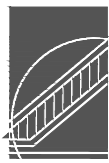
Project No.	13056
Drawing No.	L36-MOD01
Amendment No.	DA2





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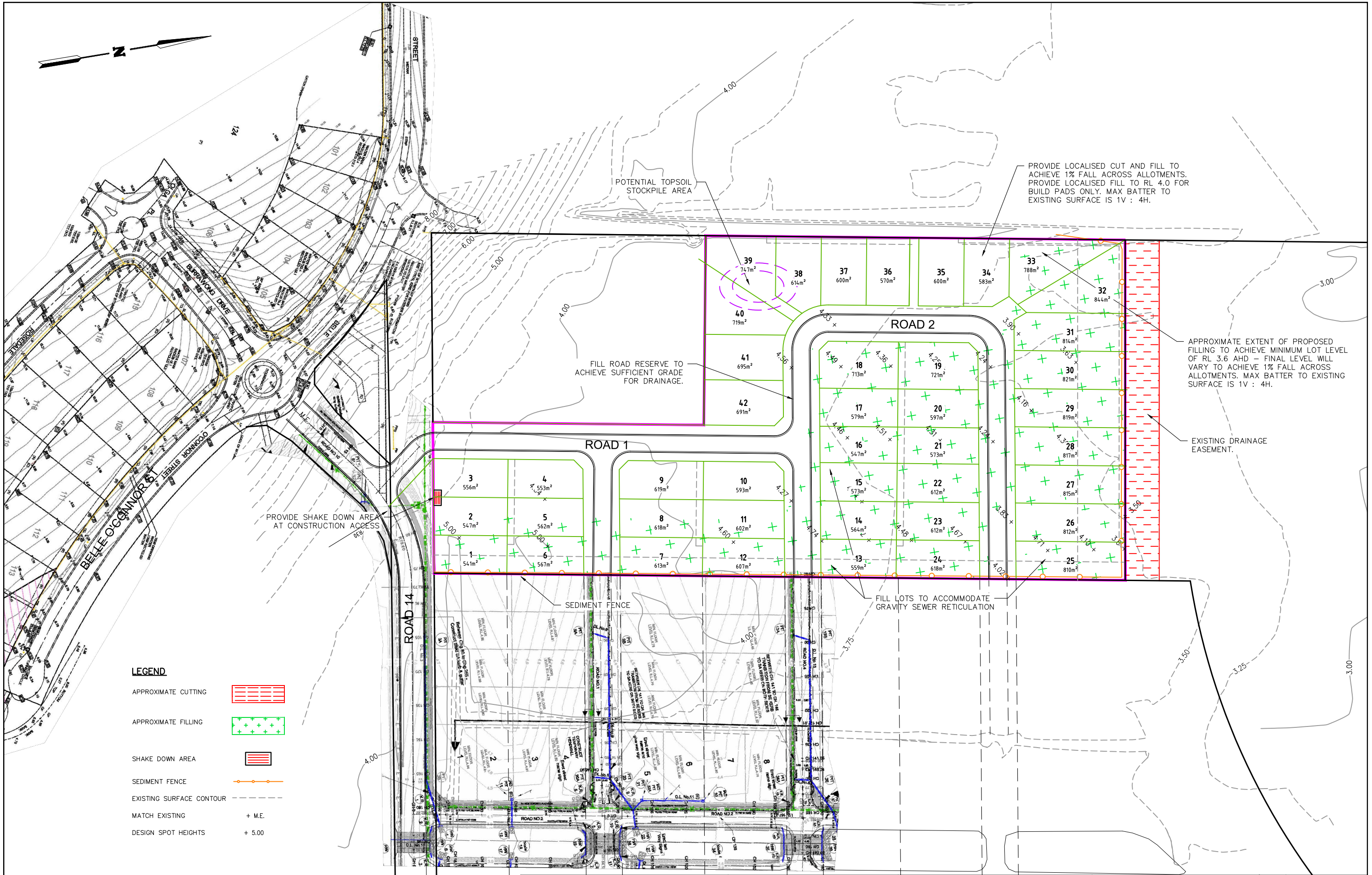
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Checked	RDG	Date	JAN 2017
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Project: SALTWATER DEVELOPMENT SOUTH WEST ROCKS, NSW  
Client: S W R Developments Pty Ltd

Title: GENERAL ARRANGEMENT & LOT LAYOUT PLAN  
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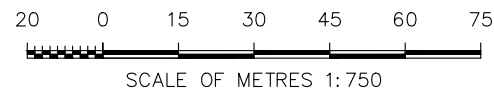
Project No. 13056  
Drawing No. L36-MOD02  
Amendment No. DA2





**LEGEND**

- APPROXIMATE CUTTING
- APPROXIMATE FILLING
- SHAKE DOWN AREA
- SEDIMENT FENCE
- EXISTING SURFACE CONTOUR
- MATCH EXISTING
- DESIGN SPOT HEIGHTS



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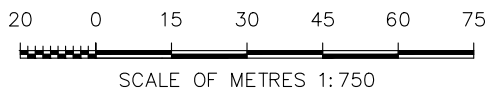
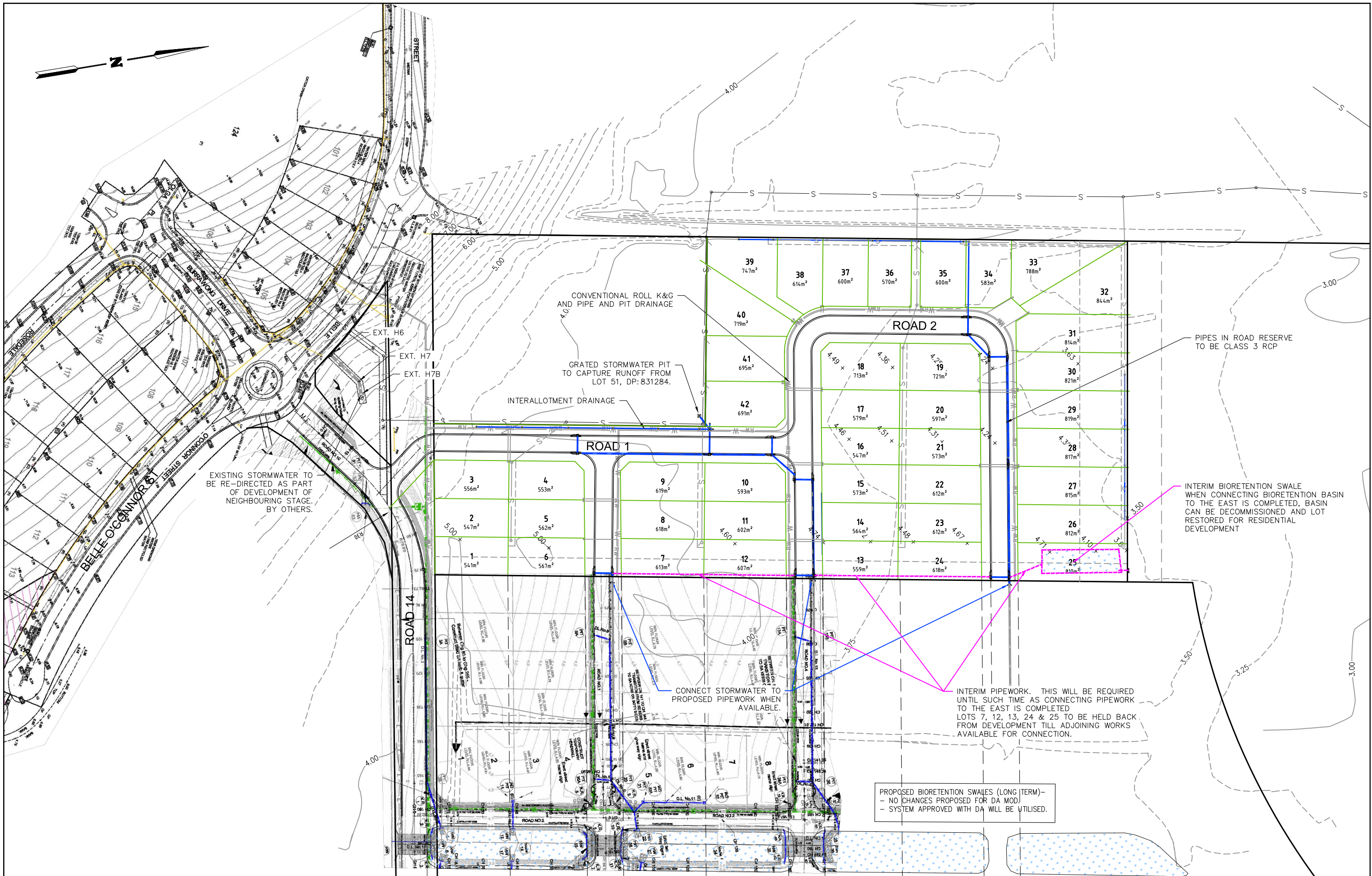
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Project:	<b>SALTWATER DEVELOPMENT SOUTH WEST ROCKS, NSW</b>
Client:	<b>S W R Developments Pty Ltd</b>

Title:	<b>BULK EARTHWORKS AND SEDIMENT &amp; EROSION CONTROL PLAN</b>
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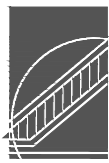
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Drawing No.	<b>L36-MOD03</b>
Amendment No.	<b>DA2</b>





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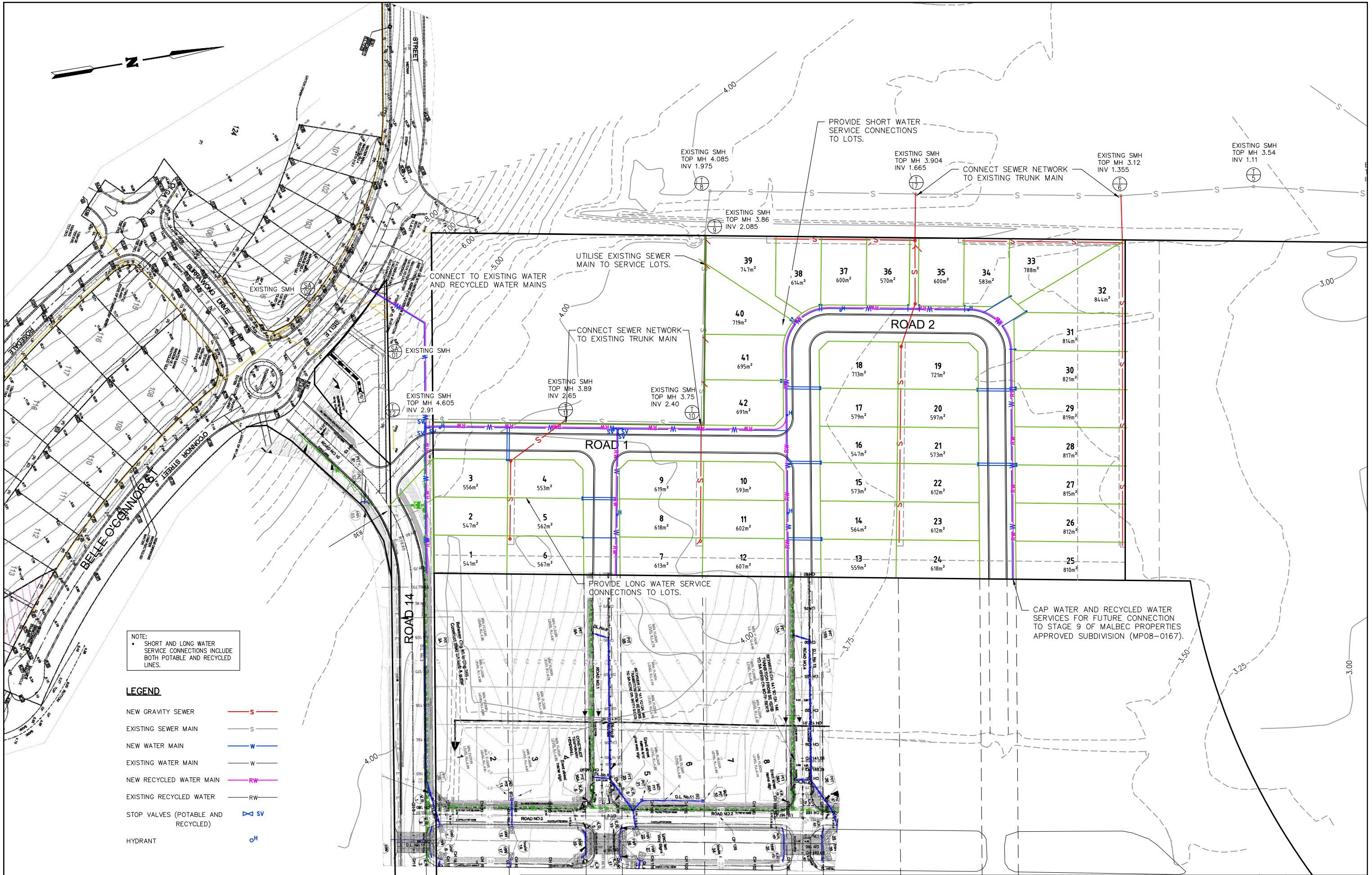
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Project:	<b>SALTWATER DEVELOPMENT SOUTH WEST ROCKS, NSW</b>
Client:	<b>S W R Developments Pty Ltd</b>

Title:	<b>ROAD &amp; DRAINAGE PLAN</b>
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Drawing No.	<b>L36-MOD04</b>
Amendment No.	<b>DA2</b>

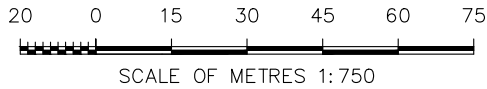




NOTE:  
• SHORT AND LONG WATER SERVICE CONNECTIONS INCLUDE BOTH POTABLE AND RECYCLED LINES.

**LEGEND**

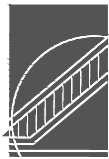
- |                                    |    |
|------------------------------------|----|
| NEW GRAVITY SEWER                  | S  |
| EXISTING SEWER MAIN                | S  |
| NEW WATER MAIN                     | W  |
| EXISTING WATER MAIN                | W  |
| NEW RECYCLED WATER MAIN            | RW |
| EXISTING RECYCLED WATER            | RW |
| STOP VALVES (POTABLE AND RECYCLED) | SV |
| HYDRANT                            | OH |



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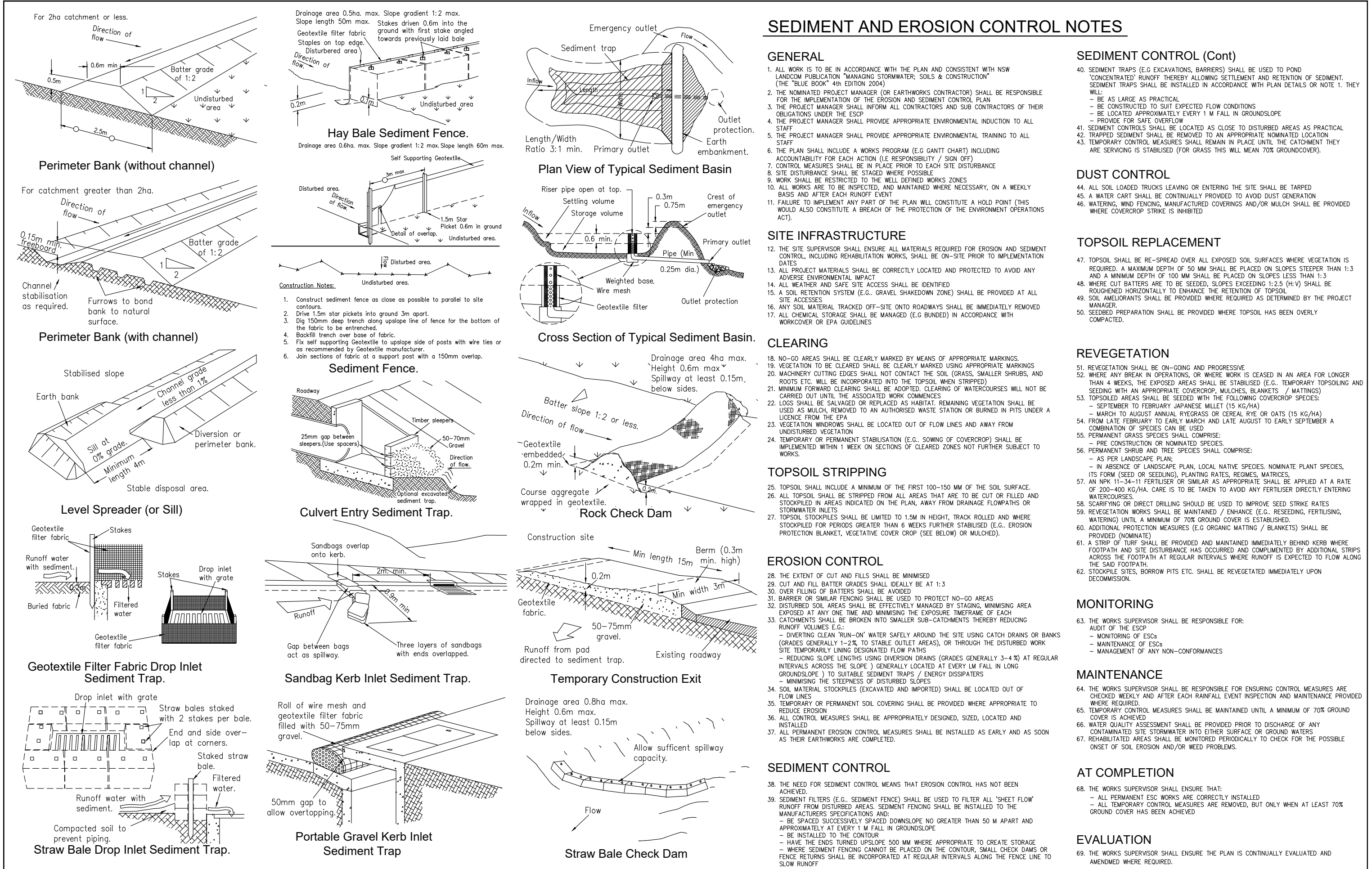
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Project:	<b>SALTWATER DEVELOPMENT SOUTH WEST ROCKS, NSW</b>
Client:	<b>S W R Developments Pty Ltd</b>

Title:	<b>WATER &amp; SEWER SERVICES PLAN</b>	Project No.	<b>13056</b>
		Drawing No.	<b>L36-MOD05</b>
		Amendment No.	<b>DA2</b>

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# SEDIMENT AND EROSION CONTROL NOTES

## GENERAL

1. ALL WORK IS TO BE IN ACCORDANCE WITH THE PLAN AND CONSISTENT WITH NSW LANDCOM PUBLICATION "MANAGING STORMWATER; SOILS & CONSTRUCTION" (THE "BLUE BOOK" 4th EDITION 2004)
2. THE NOMINATED PROJECT MANAGER (OR EARTHWORKS CONTRACTOR) SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN
3. THE PROJECT MANAGER SHALL INFORM ALL CONTRACTORS AND SUB CONTRACTORS OF THEIR OBLIGATIONS UNDER THE ESCP
4. THE PROJECT MANAGER SHALL PROVIDE APPROPRIATE ENVIRONMENTAL INDUCTION TO ALL STAFF
5. THE PROJECT MANAGER SHALL PROVIDE APPROPRIATE ENVIRONMENTAL TRAINING TO ALL STAFF
6. THE PLAN SHALL INCLUDE A WORKS PROGRAM (E.G GANTT CHART) INCLUDING ACCOUNTABILITY FOR EACH ACTION (I.E RESPONSIBILITY / SIGN OFF)
7. CONTROL MEASURES SHALL BE IN PLACE PRIOR TO EACH SITE DISTURBANCE
8. SITE DISTURBANCE SHALL BE STAGED WHERE POSSIBLE
9. WORK SHALL BE RESTRICTED TO THE WELL DEFINED WORKS ZONES
10. ALL WORKS ARE TO BE INSPECTED, AND MAINTAINED WHERE NECESSARY, ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT
11. FAILURE TO IMPLEMENT ANY PART OF THE PLAN WILL CONSTITUTE A HOLD POINT (THIS WOULD ALSO CONSTITUTE A BREACH OF THE PROTECTION OF THE ENVIRONMENT OPERATIONS ACT).

## SITE INFRASTRUCTURE

12. THE SITE SUPERVISOR SHALL ENSURE ALL MATERIALS REQUIRED FOR EROSION AND SEDIMENT CONTROL, INCLUDING REHABILITATION WORKS, SHALL BE ON-SITE PRIOR TO IMPLEMENTATION DATES
13. ALL PROJECT MATERIALS SHALL BE CORRECTLY LOCATED AND PROTECTED TO AVOID ANY ADVERSE ENVIRONMENTAL IMPACT
14. ALL WEATHER AND SAFE SITE ACCESS SHALL BE IDENTIFIED
15. A SOIL RETENTION SYSTEM (E.G. GRAVEL SHAKEDOWN ZONE) SHALL BE PROVIDED AT ALL SITE ACCESSES
16. ANY SOIL MATERIAL TRACKED OFF-SITE ONTO ROADWAYS SHALL BE IMMEDIATELY REMOVED
17. ALL CHEMICAL STORAGE SHALL BE MANAGED (E.G BUNDED) IN ACCORDANCE WITH WORKCOVER OR EPA GUIDELINES

## CLEARING

18. NO-GO AREAS SHALL BE CLEARLY MARKED BY MEANS OF APPROPRIATE MARKINGS
19. VEGETATION TO BE CLEARED SHALL BE CLEARLY MARKED USING APPROPRIATE MARKINGS
20. MACHINERY CUTTING EDGES SHALL NOT CONTACT THE SOIL (GRASS, SMALLER SHRUBS, AND ROOTS ETC. WILL BE INCORPORATED INTO THE TOPSOIL WHEN STRIPPED)
21. MINIMUM FORWARD CLEARING SHALL BE ADOPTED. CLEARING OF WATERCOURSES WILL NOT BE CARRIED OUT UNTIL THE ASSOCIATED WORK COMMENCES
22. LOGS SHALL BE SALVAGED OR REPLACED AS HABITAT. REMAINING VEGETATION SHALL BE USED AS MULCH, REMOVED TO AN AUTHORISED WASTE STATION OR BURNED IN PITS UNDER A LICENCE FROM THE EPA
23. VEGETATION WINDROWS SHALL BE LOCATED OUT OF FLOW LINES AND AWAY FROM UNDISTURBED VEGETATION
24. TEMPORARY OR PERMANENT STABILISATION (E.G.. SOWING OF COVERCROP) SHALL BE IMPLEMENTED WITHIN 1 WEEK ON SECTIONS OF CLEARED ZONES NOT FURTHER SUBJECT TO WORKS.

## TOPSOIL STRIPPING

25. TOPSOIL SHALL INCLUDE A MINIMUM OF THE FIRST 100-150 MM OF THE SOIL SURFACE.
26. ALL TOPSOIL SHALL BE STRIPPED FROM ALL AREAS THAT ARE TO BE CUT OR FILLED AND STOCKPILED IN AREAS INDICATED ON THE PLAN, AWAY FROM DRAINAGE FLOWPATHS OR STORMWATER INLETS
27. TOPSOIL STOCKPILES SHALL BE LIMITED TO 1.5M IN HEIGHT, TRACK ROLLED AND WHERE STOCKPILED FOR PERIODS GREATER THAN 6 WEEKS FURTHER STABILISED (E.G.. EROSION PROTECTION BLANKET, VEGETATIVE COVER CROP (SEE BELOW) OR MULCHED).

## EROSION CONTROL

28. THE EXTENT OF CUT AND FILLS SHALL BE MINIMISED
29. CUT AND FILL BATTER GRADES SHALL IDEALLY BE AT 1:3
30. OVER FILLING OF BATTERS SHALL BE AVOIDED
31. BARRIER OR SIMILAR FENCING SHALL BE USED TO PROTECT NO-GO AREAS
32. DISTURBED SOIL AREAS SHALL BE EFFECTIVELY MANAGED BY STAGING, MINIMISING AREA EXPOSED AT ANY ONE TIME AND MINIMISING THE EXPOSURE TIMEFRAME OF EACH
33. CATCHMENTS SHALL BE BROKEN INTO SMALLER SUB-CATCHMENTS THEREBY REDUCING RUNOFF VOLUMES E.G.:
  - DIVERTING CLEAN 'RUN-ON' WATER SAFELY AROUND THE SITE USING CATCH DRAINS OR BANKS (GRADES GENERALLY 1-2%, TO STABLE OUTLET AREAS), OR THROUGH THE DISTURBED WORK SITE TEMPORARILY LINING DESIGNATED FLOW PATHS
  - REDUCING SLOPE LENGTHS USING DIVERSION DRAINS (GRADES GENERALLY 3-4 %) AT REGULAR INTERVALS ACROSS THE SLOPE ) GENERALLY LOCATED AT EVERY 1M FALL IN LONG GROUNDSLOPE ) TO SUITABLE SEDIMENT TRAPS / ENERGY DISSIPATORS
  - MINIMISING THE STEEPNESS OF DISTURBED SLOPES
34. SOIL MATERIAL STOCKPILES (EXCAVATED AND IMPORTED) SHALL BE LOCATED OUT OF FLOW LINES
35. TEMPORARY OR PERMANENT SOIL COVERING SHALL BE PROVIDED WHERE APPROPRIATE TO REDUCE EROSION
36. ALL CONTROL MEASURES SHALL BE APPROPRIATELY DESIGNED, SIZED, LOCATED AND INSTALLED
37. ALL PERMANENT EROSION CONTROL MEASURES SHALL BE INSTALLED AS EARLY AND AS SOON AS THEIR EARTHWORKS ARE COMPLETED.

## SEDIMENT CONTROL

38. THE NEED FOR SEDIMENT CONTROL MEANS THAT EROSION CONTROL HAS NOT BEEN ACHIEVED.
39. SEDIMENT FILTERS (E.G.. SEDIMENT FENCE) SHALL BE USED TO FILTER ALL 'SHEET FLOW' RUNOFF FROM DISTURBED AREAS. SEDIMENT FENCING SHALL BE INSTALLED TO THE MANUFACTURERS SPECIFICATIONS AND:
  - BE SPACED SUCCESSIVELY SPACED DOWNSLOPE NO GREATER THAN 50 M APART AND APPROXIMATELY AT EVERY 1 M FALL IN GROUNDSLOPE
  - BE INSTALLED TO THE CONTOUR
  - HAVE THE ENDS TURNED UPSLOPE 500 MM WHERE APPROPRIATE TO CREATE STORAGE
  - WHERE SEDIMENT FENCING CANNOT BE PLACED ON THE CONTOUR, SMALL CHECK DAMS OR FENCE RETURNS SHALL BE INCORPORATED AT REGULAR INTERVALS ALONG THE FENCE LINE TO SLOW RUNOFF

## SEDIMENT CONTROL (Cont)

40. SEDIMENT TRAPS (E.G EXCAVATIONS, BARRIERS) SHALL BE USED TO POND 'CONCENTRATED' RUNOFF THEREBY ALLOWING SETTLEMENT AND RETENTION OF SEDIMENT. SEDIMENT TRAPS SHALL BE INSTALLED IN ACCORDANCE WITH PLAN DETAILS OR NOTE 1. THEY WILL:
  - BE AS LARGE AS PRACTICAL
  - BE CONSTRUCTED TO SUIT EXPECTED FLOW CONDITIONS
  - BE LOCATED APPROXIMATELY EVERY 1 M FALL IN GROUNDSLOPE
  - PROVIDE FOR SAFE OVERFLOW
41. SEDIMENT CONTROLS SHALL BE LOCATED AS CLOSE TO DISTURBED AREAS AS PRACTICAL
42. TRAPPED SEDIMENT SHALL BE REMOVED TO AN APPROPRIATE NOMINATED LOCATION
43. TEMPORARY CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL THE CATCHMENT THEY ARE SERVICING IS STABILISED (FOR GRASS THIS WILL MEAN 70% GROUNDCOVER).

## DUST CONTROL

44. ALL SOIL LOADED TRUCKS LEAVING OR ENTERING THE SITE SHALL BE TARPED
45. A WATER CART SHALL BE CONTINUALLY PROVIDED TO AVOID DUST GENERATION
46. WATERING, WIND FENCING, MANUFACTURED COVERINGS AND/OR MULCH SHALL BE PROVIDED WHERE COVERCROP STRIKE IS INHIBITED

## TOPSOIL REPLACEMENT

47. TOPSOIL SHALL BE RE-SPREAD OVER ALL EXPOSED SOIL SURFACES WHERE VEGETATION IS REQUIRED. A MAXIMUM DEPTH OF 50 MM SHALL BE PLACED ON SLOPES STEEPER THAN 1:3 AND A MINIMUM DEPTH OF 100 MM SHALL BE PLACED ON SLOPES LESS THAN 1:3
48. WHERE CUT BATTERS ARE TO BE SEEDED, SLOPES EXCEEDING 1:2.5 (H:V) SHALL BE ROUGHENED HORIZONTALLY TO ENHANCE THE RETENTION OF TOPSOIL
49. SOIL AMELIORANTS SHALL BE PROVIDED WHERE REQUIRED AS DETERMINED BY THE PROJECT MANAGER
50. SEEDBED PREPARATION SHALL BE PROVIDED WHERE TOPSOIL HAS BEEN OVERLY COMPACTED.

## REVEGETATION

51. REVEGETATION SHALL BE ON-GOING AND PROGRESSIVE
52. WHERE ANY BREAK IN OPERATIONS, OR WHERE WORK IS CEASED IN AN AREA FOR LONGER THAN 4 WEEKS, THE EXPOSED AREAS SHALL BE STABILISED (E.G. TEMPORARY TOPSOILING AND SEEDING WITH AN APPROPRIATE COVERCROP, MULCHES, BLANKETS / MATTINGS)
53. TOPSOILED AREAS SHALL BE SEEDED WITH THE FOLLOWING COVERCROP SPECIES:
  - SEPTEMBER TO FEBRUARY JAPANESE MILLET (15 KG/HA)
  - MARCH TO AUGUST ANNUAL RYEGRASS OR CEREAL RYE OR OATS (15 KG/HA)
54. FROM LATE FEBRUARY TO EARLY MARCH AND LATE AUGUST TO EARLY SEPTEMBER A COMBINATION OF SPECIES CAN BE USED
55. PERMANENT GRASS SPECIES SHALL COMPRISE:
  - PRE CONSTRUCTION OR NOMINATED SPECIES.
56. PERMANENT SHRUB AND TREE SPECIES SHALL COMPRISE:
  - AS PER LANDSCAPE PLAN;
  - IN ABSENCE OF LANDSCAPE PLAN, LOCAL NATIVE SPECIES. NOMINATE PLANT SPECIES, ITS FORM (SEED OR SEEDLING), PLANTING RATES, REGIMES, MATRICES,
57. AN NPK 11-34-11 FERTILISER OR SIMILAR AS APPROPRIATE SHALL BE APPLIED AT A RATE OF 200-400 KG/HA. CARE IS TO BE TAKEN TO AVOID ANY FERTILISER DIRECTLY ENTERING WATERCOURSES
58. SCARIFYING OR DIRECT DRILLING SHOULD BE USED TO IMPROVE SEED STRIKE RATES
59. REVEGETATION WORKS SHALL BE MAINTAINED / ENHANCE (E.G. RESEEDING, FERTILISING, WATERING) UNTIL A MINIMUM OF 70% GROUND COVER IS ESTABLISHED.
60. ADDITIONAL PROTECTION MEASURES (E.G ORGANIC MATTING / BLANKETS) SHALL BE PROVIDED (NOMINATE)
61. A STRIP OF TURF SHALL BE PROVIDED AND MAINTAINED IMMEDIATELY BEHIND KERB WHERE FOOTPATH AND SITE DISTURBANCE HAS OCCURRED AND COMPLEMENTED BY ADDITIONAL STRIPS ACROSS THE FOOTPATH AT REGULAR INTERVALS WHERE RUNOFF IS EXPECTED TO FLOW ALONG THE SAID FOOTPATH.
62. STOCKPILE SITES, BORROW PITS ETC. SHALL BE REVEGETATED IMMEDIATELY UPON DECOMMISSION.

## MONITORING

63. THE WORKS SUPERVISOR SHALL BE RESPONSIBLE FOR:
  - AUDIT OF THE ESCP
  - MONITORING OF ESCs
  - MAINTENANCE OF ESCs
  - MANAGEMENT OF ANY NON-CONFORMANCES

## MAINTENANCE

64. THE WORKS SUPERVISOR SHALL BE RESPONSIBLE FOR ENSURING CONTROL MEASURES ARE CHECKED WEEKLY AND AFTER EACH RAINFALL EVENT INSPECTION AND MAINTENANCE PROVIDED WHERE REQUIRED.
65. TEMPORARY CONTROL MEASURES SHALL BE MAINTAINED UNTIL A MINIMUM OF 70% GROUND COVER IS ACHIEVED
66. WATER QUALITY ASSESSMENT SHALL BE PROVIDED PRIOR TO DISCHARGE OF ANY CONTAMINATED SITE STORMWATER INTO EITHER SURFACE OR GROUND WATERS
67. REHABILITATED AREAS SHALL BE MONITORED PERIODICALLY TO CHECK FOR THE POSSIBLE ONSET OF SOIL EROSION AND/OR WEED PROBLEMS.

## AT COMPLETION

68. THE WORKS SUPERVISOR SHALL ENSURE THAT:
  - ALL PERMANENT ESC WORKS ARE CORRECTLY INSTALLED
  - ALL TEMPORARY CONTROL MEASURES ARE REMOVED, BUT ONLY WHEN AT LEAST 70% GROUND COVER HAS BEEN ACHIEVED

## EVALUATION

69. THE WORKS SUPERVISOR SHALL ENSURE THE PLAN IS CONTINUALLY EVALUATED AND AMENDED WHERE REQUIRED.

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