## KEMPSEY ROAD - CORN PATCH CULVERT REPLACEMENT



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| AEP <br> $(\%)$ | MAX CATCHMENT <br> FLOW RATE $\left(\mathrm{m}^{3} / \mathrm{s}\right)$ | MAX CULVERT <br> FLOW RATE $\left(\mathrm{m}^{3} / \mathrm{s}\right)$ | MAX CULVERT <br> VELOCITY $(\mathrm{m} / \mathrm{s})$ |
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| 5 | 18.9 | 17.8 | 11.1 |
| 2 | 22.8 | 21.2 | 11.7 |
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| KEMPSEY ROAD - CORN PATCH CULVERT REPLACEMENT COVER SHEET | DRAWING No |  |  |  |
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## GEOTECHNICAL ASSESSMENT REQUIREMENTS

THE BASE OF EXCAVATIONS SHALL BE BELOW THE LANDSLIDE SLIDE PLANE AND ALL UNSTABLE MATERIAL 2. BASE OF FOUNDATION EXCAVAIIONS MUST BE ASEESSED BY A GEOTECHNICAL ENGINEER
3. THE REQUIRED DEPTH OF EXCAVATION AND FOUNDATION MATERIAL MAY VARY
4. THE DESIGNER SHOULD BE CONTACTED IF THERE ARE ANY SIGNIFIICANT VARIATIONS IN CONDITIONS
ENCOUNTERED AND VARIATIONS TO THE DEESGN THATMAY BE REQUIRED.
5. AT THE COMPLETION OF WORKS, THE CONIRACTOR
5. AT THE COMPLETION OF WORKS, THE CONTRACTOR
SHALL PROVIDE CERIIICATION OF THE COMPLETED WORKS AND WORK AS EXECUTED DRAWINGS Showing the final extents of excavations, materals used and thelr quanitiles.
DRAINAGE
6. ALL DRAINAGE WORKS IS TO COMPLY WITH RMS SPECIFICATION RII
7. INLET AND OUTLET PROTECTION WORK TO COMPLY WITH RMS SPECIFICATION R55,
8. WHERE CONSTRUCTION IS HINDERED BY THE PRESENCE OF ROCK THE PRINCIPAL IS TO Be CONSULTED AROR TO ALTERING PIPE GRADES.
.
10. PIPES INSTALLED TO HS2 SUPPORT CONDITIONS.

SCOUR PROTECTION MEASURES SHALL BE CONSTRUCTED AT THE DISCHARGE POINTS OF ALL SURFAC WATER CONTROL DEVISES. MEASURES CAN INCLUDE ROCK RIP RAP OR OTHER PROPRETARY PRODUC SUCH AS CB STONEMAT OR SIMLAR
12. SOIL SLOPES SHALL BE VEGETATED IMMEDIATELY FOLLOWING COMPLLETON OF CONSTRUCTIONTO
PREVENT SCOUR AND EROSION. TEMPORARY MEASURES SUCH AS JUTE MAT UUTE MESH GRASSROOTS ESIU

## general

13. DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWINGS
14. MATERIALS AND WORKMA NSHIP SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS, TOGETHER WTA HTHE REQUIREMENTS
STATUTORY AUTHORTIES.
15. SITE SURVEY WILL BE SUPPLIED WITH STATIONS SET UP ON SITE. THE CONTRACTOR SHOULD CONFIRM THAT SUFICIIENT DATA IS SHOWN TO ENABLE CONSTRUCTION AND COMPLETION OF WORKS AS EXECUTED DRAWINGS
16. HYDRAULIC DESIGN, AND DRAINAGE STRUCTURES DESIGNED BY ARMIDALE REGIONAL COUNCII.

17. ORIGIN OF CO-ORDINATES ARE LOCAL CO-ORDINATE SYSTEM
18. PRIOR TO COMMENCEMENT OF ANY EXCAVATION OR CONSTRUCTION SERVICES LOCATION SHALL OF UNDERGROUND SERVICES.
19. CULVERTS MAY BE INSTALLED WITH HDPE RATHER THAN RCP BUT WILL REQUIRE APPROVAL FROM TH SUPERINTENDENTS REPRESENTATVE PRIOR TO INSTALLATION

## EARTHWORKS (Where Required)

20. EARTHWORKS TO BE UNDERTAKEN IN ACCORDANCE WITH RMS SPECIFICATION R44.
21. EARTH WORKS MATERIAL REQUIREMENTS TO BE SPECIFIIED AND APPROVED BY THE PROJECT
MANAGER. PRIORITY IS TO BE PLACED UPON REUSING FILL MATERIAL FROM THE ROAD RESERVE.
22. WHERE $1: 11$ BATERS ARE SPECIFIED THESE SHOULD BE FLATTENED ONSITE WHERE THE EXISTING SURFACE
ALLOWS AND SUFFCICNT MATERIAL IS AVALABLE.
23. ALL SOLLS CONTAINING ORGANIC MATER (E.G. ROOTS, GRASS ETC.) MUST BE STRPPED AND MUST NOT BE RELSED ASFIL SUCH MATERIL CAN BE RELSGD FORTOPSOLING ON
24. ANY MATERIAL REQUIRING OFFSTIE DISPOSAL WILL REQUIRE WASTE CLASSFICATION ASSESSMENTIN ACCORDANCE WITH DEPARTMENT OF ENVIRONMENT AND CLIMATE CHANGE WASTE CLASSIFICATION 5 Cutr
25. CUT /FILL BATERS MUST NOT EXCEED 2H:IV (HORZONTAL:VERICAL), WTHOUT APPROVAL FRO INATED GEOTECHNICALENGINEER.
26. EARTHWORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH AS3798-2007 GUIDELINES ON
.
27. FIL MATERAL MUST COMPLY WITH THE SPECIFCATIONS IN THE DRAWINGS.
28. FIL OVERIZED MATERAL., MUST BE REMOVED FROM THE FILL
29. FILL IS TO BE UNFORMLY COMPACTED IN LOOSE LAYERS NO GREATER THAN 300 mm AND MUST
ACHEVE A MINIMUM OF $98 \%$ STANDARD COMPACTION OR AS OTHERWISE SPECFILD 30. FILL PLACED ON SHEET 13 .
30. CLAYS OF HIGH PLASTICITY OR HIGH IN-STU MOISTURE CONTENT ARE NOT TO BE USED AS FLLL
31. IMPORTED FILL SHALL COMPRISE WELL GRADED GRANULAR MATERIAL WTH A PLASTICITY INDEX LESS

THAN $15 \%$, AND A CBR OF GREATER THAN $15 \%$ UNLESS OTHERWISE APPROVED BY THE NOMINATED
GEOTECHNCAL ENGINEER RR DESIGNER.
33. FILL SHALL BE PLACED AND COMPACTED WTHIN $60 \%$ to $90 \%$ of OMC OR AS SPECIFIED ON THE
34. DENSITY TESTING SHALL BE UNDERTAKEN IN FILL AS SPECIFIED IN THE DRAWINGS BY A NATA ACCREDITED TESTING AUTHORITY. ANY MATERIAL THAT DOES NOT MEET THE MINIMUM DENSITY REQUIREMENTS SHALL BE REWORKED AND RETESTED.

## PAVEMENTS

35. ALL ROAD WORKS TO COMPLY WITH RMS SEPCIFICATION R7IOR IN ACCORDANCE WITH THE DESIGN
OR AN APPROVED ALTERNATVE DESIGN
36. PAVEMENT MATERIAL REQUIREMENTS TO BE SPECIFIED AND APPROVED BY THE PROJECT MANAGER.
37. PAVEMENT TIE INS TO OCCUR OUTSIDE THE JOB EXTENTS. TIE IN TO BE PROVIDED OVER A MINIMUM OF

20 METRES TO ACHEVE A SMOOTH TRANSITION.
38. WHERE NEW CONSTRUCTION JOINS ONTO EXISTING PAVEMENTS THE EXISTING PAVEMENT LAYERS SHOULD BE BENCHED TO AVOID A VERTICAL JOINT EXTENDING THROUGH THE PAVEMENTS AT THE
39. PAVEMENT GRAVELS SHOULD BE PLACED AND MAINTAINED AT $60 \%$ TO $90 \%$ OF OPTIMUM MOISTURE 39. PAVEME
CONTENT.
40. FINAL SEALING, THE BASE COURSE SHOULD BE ALLOWED TO DRY BACK TO NOT MORE THAN $60 \%$ OF OPTIMUM MOISTURE CONTENT PRIOR TO SEALING
41. WHERE A TWO COAT SEAL II ADOPTED, SEALING SHOULD BE AVOIDED DURING WINTER MONTHS Or
AT TIMES WHEN PAVEMENT TEMPERATURES OF LLESS THAN 15 DEGREES ARE LIKELY. AT TIMES WHEN PAVEMENT TEMPERATURES OF LESS THAN 15 DEGREES ARE LIKELY.
42. WHERE FINAL SEALING CANNOT BE UNDERTAKEN WITHIN A FEW DAYS OF COMPLETION OF THE BAS

COURSE, A A PIMER SEAL SHO
MOISTURE CONTENT.

## GABION / NO FINES CONCRETE BLOCK (NFC) SPECIFICATION

43. MACCAFERRI GABION PVC COATED DOUBLL TWIST BASKETS OR OTHER APPROVED GABION CAGE

SHALL BE USED.
44. BASKETS SHALL BE CONSTRUCTED IN ACCORDANCE WTH THE MANUFACTURERS
reommendar.
45. GABION ROCK SHALL BE NOMINALLY 100 MM IN SIZE WITH THE GENERAL CHARACTERISTICS AS PER
46. The retaining elements (GAbions, nfC blocks, rock fll etc.) Shall be founded on WEATHERED ROCK BELOW ANY POTENTIAL FAILURE PLANE. THE FOUNDATION SHALL BE ASSESS BY A GEOTECHNICAL ENGINEER.
47. Where foundation surface is irregular, Concrete leveling strips can be used.
48. THE FOUNDATION SHALL BE GRADED OR A DRAINAGE PIPE INSTALLED TO ENSURE DRAINAGE FROM BEHIND THE WALL AND TO PREVENT PONDING
49. GABIONS / NFC BLOCKS SHALL BE PLACED WTH A SLIGht INCLINE INTO THE SLOPE FACE (NOM 1-5 $)$,
50. GABIONS / NFC BLOCKS SHALL BE PLACED WITH A O.5M OFFSET FROM ADJOINING ROWS AND THE ROW BELOW. UNLESS CLEARLY DETAILED OTHERWISE IN THESE DRAWINGS.
51. GABIONS / NFC BLOCKS NOT DIRECTLY PLACED OVER ANOTHER ROW OF GABIONS SHALL BE PLACED ON A PREPARED FOUNDATION CONSISTING OF ROCKFIL PLACED IN ACCORDANCE WTH THE REQUIREMENTS OF THE ROCK FLLL CONSTRUCTION METHODOLOGY AND SEQUENCING
52. EXCAVATE AND REMOVE ALL EXIITTING SITE DEBRIS AND UNSUUTABLE MATERIAL FROM THE
EMSANKMENT TOE AND FACE OF SIOPE THESE MAIERALIS COUD BE REUSED ONSTE FOR SLOR EMBANMENT TOE AND FACE OF SLOPE. THESE MAIERALS COULD BE REUSED ON STE FOR SLOPE
REGRADING AND TOPSOILING. ANY MATERAL REMOVED FROM THE SITE WOULD ALSO REQUIRE WASTE CLASSIFICATION ASSESSMENT IN ACCORDANCE WITH DEPARTMENT OF ENVIRONMENT AND CLIMATE CHANGE WASTE CLASSIFICATION GUIDELINES.
53. PLACE A NON-WOVEN GEOFABRIC (SUCH AS BIDIM AA9 OR SIMLAR) OVER THE BASE OF THE
EXCAVATION AND SLOPE FACE BETWEEN THE GABION / NFC BLOCKS / ROCK FLL AND SUBGRAL

## ROCK FILL CONSIRUCTION

54. EXCAVATE AND REMOVE ALL UNSUITABLE MATERIAL FROM THE EMBANKMENT TOE AND SLOPE FACE 55. THE ROCKFILL FOUNDAIION SHOULD COMPRISE STFF / DENSE SOLLS OR THE UNDERLYING WEATHERED PLACING ROCKFILL
55. EXCAVATE A 'KEY' INTO THE FOUNDATION TO PROVIDE TOE RESTRAINT AND TO INCREASE SLIDING RESISTANCE ALONG THE TOE
56. PLACE A NON-WOVEN GEOFABRIC (SUCH AS BIDUM A49 OR SIIILAR) OVER THE BASE OF THE
EXCAVATION AND SLOPE BETWEEN THE ROCKFILL AND SLOPE FACE.
. PLACE BOULDERS AND COBBLES SELECTVEEY NAMANNER THATENSURES GOOD MECHANCA SMALLER BOULDERS AND COBBLES
57. EXCAVATE THE SLOPE PROGRESSIVELY AS THE ROCK IS PLACED, BENCHING IN LIITS OF NO GREATER 59. EXCAVATE
THAN I.OM.
58. THE ROCK FILL SHOULD BE PLACED WTH A FACE ANGLE NO STEEPER THAN 35 TO $40^{\circ}$

## ROCK FILL SPECIFICATIONS

61. ROCK FILL SHOULD COMPRISE OF HARD, DURABLE, ANGULAR ROCK WITH THE FOLLOWING
CHARACTERSTICS.

CHARACTERISTICS.
a. HIG SPECIFIC GRAVITY (MASS) OF GREATER THAN $2.4 T / M 3$
b. Chemicaly inert
C. WET STRENGTH $>120 \mathrm{KN}$
d. WET/DRY STRENGTH VARIATION $<35 \%$
e. WATER ABSORPTION $<1.5 \%$
f. SODIUM SULPHATE LOSS <6\%
57. SITE WON MATERIAL CAN be ReUSED but Should be ASSESSED by A Geotechnical engineer for SUTABLITY.

## EROSION AND SEDIMENI CONTROL (ERSED)

58. ERSED CONTROLS TO BE DESIGNED AND IMPLEMENTED IN ACCORDANCE WITH THE LAND COM BLUE
BOOK (MMANAGING URBAN STORMWATER: SOOILS AND CONSTRUCTION) AND THE ENVIRONMENTAL MANAGEMENT PLAN.
59. ERSED CONTROLL TO BE MAINTAINED THROUGHOUT THE JOB AND REINSPECTED AND MAINTAINED
AFTER EACH RAIN EVENT.
60. BATERS AND EXPOSED SURFACES TO BE REVEGETATED. SPECIIIC GRASS MIX AND PLANTING

SAFETY BARRIERS:
61. SAFETY BARRIERS TO BE CONSTRUCTED IN ACCORDANCE WTH RMS SPECIFLCATION RI32. CONCRETE:
62. ALL CONCRETE WORKS MUST COMPLY WITH RMS SPEC R53 CONCRETE FOR GENERAL WORKS.
63. MINIMUM STRENGTH GRADE $\mathrm{f}^{\prime}(\mathrm{C})=32 \mathrm{MPa}$.
64. NOMINAL SLUMP 100 mm
65. MINIMUM YIELD STRESS OF STEEL REINFORCING F'sy $=500 \mathrm{MPA}$.
66. ADJOINING SHEETS OF MESH MUST BE OVERLAPPED BY A MINIMUM OF TWO SQUARES.
67. STEEL REINFORCING BARS TO BE JOINED WITH MINIMUM LAP LENGTHS OF 32 TIMES THE BAR DIAMETER UNLESS OTHERWISE SPECIFIED.
68. CONCRETE REQUIREMENTS FOR HEADWALL CONSTRUCTION SHALL BE PROVIDED ON THE RMS STANDARD DRAWINGS. THESE CONSTRUCTION NOTES REFER TO GENERAL CONCRETE WORK FOR INL
PROTECTION AND GUARDRALL FOOTINGS. 69. NEED FOR
EXCAVATION

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KEMPSEY ROAD - CORN PATCH
CULVERT REPLACEMENT NOTES

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Ch 100.000

ROCKFILL TO BE PLACED
AT A NOMINAL 500 mm DEPTH
AND MAX ANGLE OF $40^{\circ}$ (MIN 1:1.5) EXTENTS TO BE CONFIRMED WITH SUPERINTENDENT MIN ROCK SIZE - 300 mm


Ch 120.000


V - 1:200


Ch 110.000


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Ch 140.000


Ch 160.000
GAURDARIL INSTALLED AS PER SHEET 9


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Ch 130.000


Ch 151.523

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WHERE REQUIRED DUE TO SHALLOW ROCK OR OVER DRAINAGE PIPES UTILISE A CONCRETE FOOTING WITH BASE POSTS REFER TO SAFETY BARRIER

SAFETY BARRIER DETAILS
SCALE 1:20


ROCKFILL TO BE PLACED AT A NOMINAL 500 mm DEPTH

TYPICAL ROAD CROSS SECTION
SCALE 1:50
TYPICAL LEFT BATTER SECTION
SCALE 1:150





Ch 10.228

EXISTING BED TO BE LEVELED AND ROCK LINED

10 m BEYOND GABION


Ch 4.226


Ch 15.229

ROCKFILL TO BE PLACED AT A NOMINAL 500 mm DEPTH AND MAX ANGLE OF $40^{\circ}$ (MIN 1:1.5) EXTENTS TO BE CONFIRMED WITH SUPERINTENDENT MIN ROCK SIZE - 300 mm


Ch 13.299

|  |  |  |  |  |  |  | SURV J.SPENCE | KEMPSEY ROAD - CORN PATCH <br> CULVERT REPLACEMENT CULVERT OUTLET CHANNEL | DRAWING No314-027 |  |  |  |
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Ch 19.255

ROCKFILL TO BE PLACED AT A NOMINAL 500 mm DEPTH AND MAX ANGLE OF $40^{\circ}$ (MIN 1:1.5) ND MAX ANGLE OF $40^{\circ}$ (MIN 1:1.5)
R.L. 989.300

EXTENTS TO BE CONFIRMED WITH SUPERINTENDENT MIN ROCK SIZE - 300 mm


Ch 17.229


Ch 21.069

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