COLAC OTWAY SHIRE WYE RIVER AND SEPARATION CREEK ESCP 31-34316



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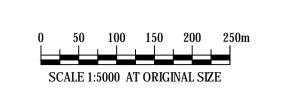
COVER SHEET, DRAWING LIST AND LOCALITY PLAN

WYE RIVER NORTH (WEST OF MAIN GULLY) 31-34316-C001 WYE RIVER NORTH (EAST OF MAIN GULLY) 31-34316-C002

31-34316-C003 SEPARATION CREEK ESCP DETAILS, SHEET 1 OF 2 31-34316-C004 ESCP DETAILS, SHEET 2 OF 2 31-34316-C005

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COVER SHEET, DRAWING LIST AND LOCALITY PLAN Drawing No: 31-34316-G001 Rev: **B**

WYE RIVER AND SEPARATION CREEK ESCP

COLAC OTWAY SHIRE

EROSION AND SEDIMENT CONTROL NOTES

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GENERAL NOTES

- 1. READ THESE DRAWINGS IN CONJUNCTION WITH ENGINEERING DRAWINGS. SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.
- 2. NOMINATION OF PROPRIETARY DEVICES DOES NOT INDICATE EXCLUSIVE REFERENCE BUT INDICATES THAT SIMILAR ALTERNATIVES HAVING THE REQUIRED PROPERTIES MAY BE OFFERED FOR APPROVAL BY A SUITABLY QUALIFIED PROFESSIONAL (PREFERABLY WITH CPESC ACCREDITATION).
- 3. REFER ANY DISCREPANCY TO THE DESIGNER BEFORE PROCEEDING WITH THE WORK. 4. DO NOT OBTAIN DIMENSIONS BY SCALING FROM THE DRAWINGS.
- 5. VERIFY SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED.
- 6. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SAA CODES, SPECIFICATIONS AND BY-LAWS AND
- ORDINANCES OF THE RELEVANT BUILDING AUTHORITY. 7. THE CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF LEVELS AND LOCATIONS OF SERVICES TO FULLY COMPLY WITH LOCAL AUTHORITY "AS CONSTRUCTED" INFORMATION REQUIREMENTS.
- 8. IT IS EXPECTED THAT PRIOR TO ANY ACTIVITY, A DETAILED WORK SPECIFIC ESCP WILL BE DEVELOPED BY THE CONTRACTOR AS PART OF THE CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP). THE CONTRACTOR WILL REVISE THIS ESCP TO PROVIDE GREATER DETAIL BASED ON CONSTRUCTION METHODOLOGY AND TIMING OF WORKS BY THE CONTRACTOR.
- 9. TYPICAL DETAILS OF EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN **OBTAINED FROM THE IECA.2008.**

GENERAL REINSTATEMENT

THE STABILISATION REQUIREMENTS FOR THE PROJECT ARE AS FOLLOWS:

- 1. DISTURBED SOIL SURFACES ARE TO BE STABILISED:
- 2. ALL TEMPORARY EARTH BANKS, FLOW DIVERSION SYSTEMS, AND EMBANKMENTS WHERE RUNOFF SHOULD FLOW UNCONTROLLED OFF SITE ARE TO BE STABILISED:
- 3. A SUCCESS CRITERION FOR GROUND COVER IS A MINIMUM OF 75% COVER;
- 4. FOOT AND VEHICULAR TRAFFIC SHOULD BE KEPT AWAY FROM ANY REHABILITATED
- 5. LARGE, UNPROTECTED AREAS SHALL BE KEPT MOIST (NOT WET) TO CONTROL DUST.

SITE INSPECTIONS

FINAL REVISION

ISSUED FOR CLIENT REVIEW

Plot Date: 15 September 2016 - 1:34 PM Plotted by: Pc Wong

EXTENT OF WORKS ESTIMATED BASED ON AERIAL PHOTOS FROM JANUARY 2016 AND SITE INSPECTIONS UNDERTAKEN ON THE 14. 21. AND 28 JULY 2016. DUE TO THE POTENTIAL CHANGE IN SITE CONDITIONS DUE TO ONGOING DEMOLITION AND REBUILDING WORKS, SPECIFIC SITE EXTENTS ARE TO BE CONFIRMED WITH THE SUPERINTENDENT.

MONITORING REQUIREMENTS

APPROPRIATE PROCEDURES AND QUALIFIED PERSONNEL SHOULD BE ENGAGED TO PLAN AND CONDUCT SITE INSPECTIONS AND WATER QUALITY MONITORING

- 1. ALL ESC MEASURES SHOULD BE INSPECTED IN ACCORDANCE WITH THE IECA 2008
- 2. ALL SITE MONITORING DATA INCLUDING RAINFALL RECORDS, DATES OF WATER QUALITY TESTING. TESTING RESULTS AND RECORDS OF CONTROLLED WATER RELEASES FOR THE SITE. SHOULD BE DOCUMENTED ONSITE. THE DOCUMENTATION SHOULD BE MAINTAINED UP TO DATE FOR THE DURATION OF THE APPROVED WORKS AND BE AVAILABLE ON-SITE FOR INSPECTION BY THE ASSESSING AUTHORITY ON
- 3. ALL ENVIRONMENTAL INCIDENTS SHOULD BE DOCUMENTED. AND SHOULD REMAIN ACCESSIBLE TO THE RELEVANT REGULATORY AUTHORITIES ON REQUEST. WHEN AN ENVIRONMENTAL INCIDENT (I.E. BREACH OF LIMITS) OR EXCEEDANCE OF TRIGGER VALUE OCCURS, IT IS THE RESPONSIBILITY OF THE ENVIRONMENTAL MANAGER TO INVESTIGATE AND INITIATE REMEDIAL ACTIONS COMMENSURATE WITH THE SEVERITY OF THE INCIDENT.
- 4. A SYSTEM SHOULD BE IMPLEMENTED AND MAINTAINED THAT MONITORS AND RECORDS SITE COMPLIANCE AND NON-COMPLIANCE WITH THE ESCP REQUIREMENTS.

SEDIMENT SOURCE PREVENTION

MAINTENANCE REQUIREMENTS

ALL MATERIALS REMOVED FROM ESC DEVICES DURING MAINTENANCE. WHETHER SOLID OR LIQUID, SHOULD BE DISPOSED OF IN A MANNER THAT DOES NOT CAUSE ONGOING SOIL EROSION OR ENVIRONMENTAL HARM. SOLID MATERIALS REMOVED FROM ESC DEVICES ARE TO BE STOCKPILED ONSITE OR REMOVED AS DIRECTED BY THE SUPERINTENDENT.

WRITTEN RECORDS OF EROSION AND SEDIMENT CONTROL MONITORING AND MAINTENANCE ACTIVITIES CONDUCTED DURING THE CONSTRUCTION AND MAINTENANCE PERIODS SHOULD BE MAINTAINED ON SITE. ORIGINAL COPIES OF SUCH RECORDS SHALL BE PROVIDED ON REQUEST TO THE ASSESSING AUTHORITY OR SUPERINTENDENT.

MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES MUST OCCUR IN ACCORDANCE WITH IECA 2008 GUIDELINES.

HYDROMULCH

HYDROSEEDING FOLLOWED BY HYDROMULCHING IS TO BE APPLIED ON THE INDICATED EXPOSED AREAS TO PROVIDE EROSION CONTROL PROTECTION:

SEED SPECIES - A STERILE SEED COMBINED WITH NATIVE SEED MIX SHALL BE USED IN THE HYDROSEED APPLICATION. IF POSSIBLE THE CONTRACTOR SHALL SOURCE SEED FROM WITHIN 25 KM OF THE SITE AND FROM AREAS WITH SIMILAR SOIL TYPE (SAME PARENT MATERIAL).

HYDROMULCH - HYDROMULCHING IS TO BE APPLIED FOLLOWING HYDROSEEDING USING A STANDARD HYDROMULCH THAT CONSISTS OF VARIOUS TYPES OF ORGANIC FIBROUS MATERIAL (EG PAPER/WOOD PULP, WOOD FIBRE, STRAW FIBRE ETC) MIXED WITH WATER, TACKIFIER AND SOIL AMELIORANTS AND SPRAYED ON THE SOIL IN SLURRY FORM TO PROVIDE A PROTECTIVE LAYER.

INSTALLATION

- 1. ENSURE ALL NECESSARY SOIL TESTING (E.G. SOIL PH, NUTRIENT LEVELS) AND ANALYSIS HAS BEEN COMPLETED, AND REQUIRED SOIL ADJUSTMENTS PERFORMED PRIOR TO PLANTING.
- 2. APPLY SOIL CONDITIONERS AND FERTILISER AS SPECIFIED ON THE APPROVED PLANS. RIP THE SOIL 100 TO 150MM TO THE COMPONENTS INTO THE SOIL AND TO LOOSEN AND SOUGHEN THE SOIL SURPHACE BEFORE SEEDING.
- 3. WHERE POSSIBLE. THERE SHOULD BE SUFFICIENT SOIL DEPTH TO PROVIDE AN ADEQUATE ROOT ZONE. THE DEPTH TO ROCK OR IMPERMEABLE LAYERS SUCH AS HARDPANS SHOULD BE 300MM OR MORE, EXCEPT ON SLOPES STEEPER THAN 2:1(H:V) WHERE SUCH SOIL DEPTH MAY NOT BE FEASIBLE.
- 4. APPLY SEED UNIFORMLY WITH A HYDROMULCHER AS SPECIFIED.
- 5. APPLY SEED AT THE RECOMMENDED RATE, AND DISC OR OTHERWISE MECHANICALLY TREAT THE SURFACE TO BRING THE SEED INTO CONTACT WITH THE SOIL.

MAINTENANCE

- 1. DURING CONSTRUCTION, INSPECT THE TREATED AREA FORTNIGHTLY AND AFTER RUNOFF-PRODUCING RAINFALL. MAKE REPAIRS AS NEEDED.
- 2. WATERING SHOULD START IMMEDIATELY AFTER PLANTING. WATERING SHOULD COMPLY WITH THE RELEVANT SPECIFICATIONS. WATERING SHOULD VARY ACCORDING TO WEATHER AND SOIL CONDITIONS.
- 3. MONITOR SITE REVEGETATION PARTICULARLY AFTER RAINFALL, AND APPROPRIATE MAINTENANCE AND/OR AMENDMENT TO ENSURE THAT THE REVEGETATION IS CONTROLLING EROSION AND STABILISING SOILD SLOPES AS REQUIRED.
- 4. AREAS MUST BE RE-SEEDED AND MULCHED IF THE VEGETATION FAILS TO ESTABLISH OR IS DAMAGED BY RUNOFF OR CONSTRUCTION ACTIVITIES.
- 5. IF THE MULCH COVER SHOULD FAIL FOR ANY REASON BEFORE ESTABLISHMENT OF THE PERMANENT VEGETATION COVER, THEN IT MUST BE REPLACED WITH AN APPROPRIATE TYPE OF COVER SUFFICIENT TO CONTROL SOIL EROSION.
- 6. MAINTAIN GRASS BLADE LENGTH AT A MINIMUM 50MM HEIGHT WITHIN MEDIUM TO HIGH VELOCITY DRAINAGE SREAS, AND 20 TO 50MM WITHIN LOW VELOCITY FLOR
- 7. WHERE MULCH IS USED TO CONTROL WEED GROTH, INSPECT AND WHERE NECESSARY, RENEW AT MAINTENANCE PERIODS NOT EXCEEDING 4 TO 6 MONTHS.
- 8. DISPOSE OF CLEARED VEGETATION IN AN APPROPRIATE MANNER SUCH AS CHIPPING OR MULCHING, ON-SITE BURIAL, OR OFF-SITE DISPOSAL. CLEARED VEGETATION SHOULD NOT BE DUMPED NEAR A WATERCOURSE WHERE IT COULD BE REMOVED BY FLOODWATERS.

GRAVEL REINSTATEMENT

GRAVEL REINSTATEMENT AT LOT AND ROAD ENTRY AND EXIT LOCATIONS SHOULD HAVE THE FOLLOWING DIMENSIONS

- 1. ROCK D50= 100 MM (MINIMUM) OVER GEOTEXTILE (TERRATEX E1 PP OR APPROVED **EQUIVALENT**)
- 2. THICKNESS OF ROCK PROTECTION LAYER = 200 MM (MINIMUM)

INSTALLATION

- 1. SPREAD ENOUGH GRAVEL TO COMPLETELY COVER THE SURFACE OF THE SOIL AT THE DENSITY OR THICKNESS SPECIFIED IN THE APPROVED PLAN. IF THE APPLICATION DENSITY IS NOT SUPPLIED, THEN APPLY AT A THICKNESS OF AT LEAST TWICE THE MEAN ROCK SIZE.
- 2. MAKE ALL NECESSARY ADJUSTMENTS TO ENSURE ANY RUN-ON STORMWATER FLOW IS ALLOWED TO PASS FREELY ACROSS THE TREATED AREA FOLLOWING ITS NATURAL DRAINAGE PATH.

MAINTENANCE

- 1. INSPECT ALL TREATED SURFACES FORTNIGHTLY AND AFTER RUNOFF-PRODUCING
- RAINFALL. 2. CHECK FOR RILL EROSION, OR DISLODGEMENT OF THE GRAVEL.
- 3. REPLACE ANY DISPLACED GRAVEL TO MAINTAIN THE REQUIRED COVERAGE.
- 4. IF WASH-OUTS OCCUR, REPAIR THE SLOPE AND REINSTALL SURFACE COVER.
- 5. IF THE GRAVEL IS NOT EFFECTIVE IN CONTAINING THE SOIL EROSION IT SHOULD BE REPLACED. OR AN ALTERNATIVE EROSION CONTROL PROCEDURE ADOPTED.

STEEP EMBANKMENT PROTECTION

FIBRE ROLLS (e.g. COIR LOGS) ARE TO BE PLACED ABOVE IDENTIFIED STEEP EMBANKMENTS, AND ARRANGED OVER THE INDICATED LENGTH SO THAT ANY OVERLAND RUNOFF IS REDIRECTED TO EXISTING FLOW PATHS (e.g. DRIVEWAYS) OR TO EXISTING TABLE DRAINS.

- FIBRE ROLLS: TYPICALLY 200 TO 250mm JUTE, COIR, OR STRAW ROLL TIED WITH SYNTHETIC OR BIODEGRADABLE MESH.
- STAKES: TYPICALLY MINIMUM 25 x 25mm TIMBER STAKES

INSTALLATION

- 1. REFER TO APPROVED PLANS FOR LOCATION AND MANUFACTURERS INSTALLATION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS, OR METHOD OF INSTALLATION CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
- 2. WHEN PLACED ACROSS NON-VEGETATED OR NEWLY-SEEDED SLOPES, THE ROLLS MUST BE PLACED ALONG THE CONTOUR.
- 3. IF PLACED ON OPEN OR LOOSE SOIL, ENSURE THE FIBRE ROLLS ARE TRENCHED 50 TO 75mm.
- 4. ENSURE THE OUTERMOST ENDS OF THE FIBRE ROLL ARE TURNED UP THE SLOPE TO ALLOW WATER TO ADEQUATELY POND UP-SLOPE OF THE ROLL, AND TO MINIMISE FLOW BYPASSING.
- 5. ENSURE THE ANCHORING STAKES ARE DRIVEN INTO THE END OF EACH ROLL AT A SPACING NOT EXCEEDING 1.2m OR SIX TIMES THE ROLL DIAMETER. WHICHEVER IS THE LESSER. A MAXIMUM STAKE SPACING OF 0.3m APPLIES WHEN USED TO FORM CHECK DAMS.
- 6. ADJOINING ROLL MUST BE OVERLAPPED AT LEAST 100mm, NOT ABUTTED.

MAINTENANCE

- 1. INSPECT ALL FIBRE ROLLS PRIOR TO FORECAST RAIN, DAILY DURING EXTENDED PERIODS OF RAINFALL. AFTER SIGNIFICANT RUNOFF PRODUCING STORMS OR OTHERWISE AT WEEKLY INTERVALS.
- 2. REPAIR OR REPLACE DAMAGED FIBRE ROLLS.
- 3. REMOVE COLLECTED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

- 1. ALL EXCESSIVE SEDIMENT TRAPPED BY THE ROLLS MUST BE REMOVED FROM THE DRAIN OR SLOPE IF SUCH SEDIMENT IS LIKELY TO BE WASHED AWAY BY EXPECTED
- 2. DISPOSE OF COLLECTED SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.
- 3. THE BIODEGRADABLE CONTENT OF THE STRAW ROLLS MAY NOT NECESSARILY NEED TO BE REMOVED FROM THE SITE.

SEDIMENT DEBRIS MANAGEMENT

STOCKPILE MANAGEMENT

ALL STOCKPILES ARE TO:

- 1. BE SEPARATED INTO SOIL AND USE TYPES;
- 2. BE LOCATED FURTHER THAN 20 METRES FROM WATERWAYS; 3. BE LOCATED AT LEAST ONE METRE FROM SITE BOUNDARY FENCING;
- 4. NOT BE LOCATED AGAINST THE BASE OF SIGNIFICANT TREES;
- 5. BE WATERED AND / OR PROTECTED THROUGH EFFECTIVE EROSION CONTROL EMULSIONS (VITAL BON-MATT STONEWALL OR EQUIVALENT), AS REQUIRED, TO MINIMISE DUST EMISSIONS:
- 6. HAVE SEDIMENT FENCES AND COIR LOGS LOCATED DOWN SLOPE TO MINIMISE THE RISK OF SEDIMENT LADEN RUNOFF

SILT FENCE

MATERIALS 1. THE SILT FENCE RECOMMENDED FOR THIS PROJECT IS TERRASTOP TS 1780 OR

APPROVED EQUIVALENT.

INSTALLATION

- 1. SEDIMENT FENCE TO BE INSTALLED ALONG A LINE OF CONSTANT GROUND ELEVATION WHEREVER PRACTICAL.
- 2. BOTH END OF THE SEDIMENT FENCE TO EXTEND UP THE SLOPE AT LEAST 1M.
- 3. SUPPORT POST TO BE SPACED A MAXIMUM 2M UNLESS THE FENCE IS SUPPORTED BY A TOP WIRE OR WIRE MESH BACKING, IN WHICH CASE 3M MAXIMUM SPACING.
- 4. FENCE 'RETURNS' SHALL BE INSTALLED AT MAXIMUM 20M SPACING IF FENCE IS INSTALLED ALONG THE CONTOUR, OTHERWISE 5 TO 10M MAXIMUM SPACING.
- 5. MINIMUM 4 TIE WIRES PER STAR PICKET.
- 6. ENSURE THE EXTREME ENDS OF THE FENCE ARE TURNED UP THE SLOPE AT LEAST 1.5M, OR AS NECESSARY, TO MINIMISE WATER BYPASSING AROUND THE FENCE.
- 7. UNLESS DIRECTED BY THE SITE SUPERVISOR OR THE APPROVED PLANS. EXCAVATE A 200MM WIDE BY 200MM DEEP TRENCH ALONG THE PROPOSED FENCE LINE, PLACING THE EXCAVATED MATERIAL ON THE UP-SLOPE SIDE OF THE TRENCH.
- 8. ALONG THE LOWER SIDE OF THE TRENCH, APPROPRIATELY SECURE THE STAR PICKETS INTO THE GROUND SPACED NO GREATER THAN 3M IF SUPPORTED BY A TOP SUPPORT WIRE OR WEIR MESH BACKING, OTHERWISE NO REATER THAN 2M.
- 9. WHEREVER POSSIBLE, CONSTRUCT THE SEDIMENT FENCE FROM A CONTINUOUS ROLL OF FABRIC. TO JOIN FABRIC EITHER:
 - (I) ATTACH EACH END TO TWO OVERLAPPING STAKES WITH THE FABRIC FOLDING AROUND THE ASSOCIATED TAKE ONE TURN, AND WITH THE TWO STAKES TIED TOGETHER WITH WIRE; OR (II) OVERLAP THE FABRIC TO THE NEXT ADJACENT SUPPORT POST.
- 10. ENSURE THE COMPLETED SEDIMENT FENCE IS AT LEAST 500MM, BUT NOT MORE

11. BACKFILL THE TRENCH AND TAMP THE FILL TO FIRMLY ANCHOR THE BOTTOM OF THE FABRIC AND MESH TO PREVENT WATER FROM FLOWING UNDER THE FENCE.

MAINTENANCE

- 1. INSPECT THE SEDIMENT FENCE AT LEAST WEEKLY AND AFTER ANY SIGNIFICANT
- RAIN. MAKE NECESSARY REPAIRS IMMEDIATELY. 2. REMOVE ACCUMULATED SEDIMENT IF THE SEDIMENT DEPOSIT EXCEEDS A DEPTH
- OF 1/3 THE HEIGHT OF THE FENCE. DISPOSE OF SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION
- OR POLLUTION HAZARD. 4. REPLACE THE FABRIC IF THE SERVICE LIFE OF THE EXISTING FABRIC EXCEEDS

REMOVAL

- 10. WHEN DISTURBED AREAS UP-SLOPE OF THE SEDIMENT FENCE ARE SUFFICIENTLY STABILISED TO RESTRAIN EROSION, THE FENCE MUST BE REMOVED.
- 11. REMOVE MATERIALS AND COLLECTED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.
- 12. REHABILITATE/REVEGETATE THE DISTURBED GROUND AS NECESSARY TO MINIMISE THE EROSION HAZARD.

SEDIMENT TRAP IN TABLE DRAIN - CHECK DAM

WIRE MESH FILLED WITH SMALL ROCKS ARE TO BE USED FOR CHECK DAMS (e.g. SACK GABIONS). IT IS NOTED THAT SEDIMENT LADEN WATER SHALL BE TRAPPED AT CHECK DAMS. CHECK DAMS HAVE BEEN SHOWN AT SEVERAL LOCATIONS IN THE ESC DRAWINGS AND HAVE BEEN CONSERVATIVELY DESIGNED.

MATERIALS

- 1. ROCK: 80 TO 150mm NOMINAL DIAMETER, HARD, EROSION RESISTANT ROCK. SMALLER ROCK MAY BE USED IF SUITABLE LARGE ROCK IS NOT AVAILABLE.
- 2. NETTING: THE WIRE MESH ARE TO BE 150mm DIAMETER AND MANUFACTURED TO SPECIFIED LENGTH.
- 3. THE MATERIALS (e.g. MESH, LACING WIRE, RING FASTENERS) TO BE SUPPLIED BY THE MANUFACTURER.

INSTALLATION

- 1. PRIOR TO PLACEMENT OF THE CHECK DAMS, ENSURE THE TYPE AND SIZE OF EACH CHECK DAMS WILL NOT CAUSE A SAFETY HAZARD OR CAUSE WATER TO SPILL OUT OF THE DRAIN.
- 2. LOCATE THE FIRST CHECK DAM AT THE DOWNSTREAM END OF THE SECTION OF CHANNEL BEING PROTECTED. LOCATE EACH SUCCESSIVE CHECK DAM SUCH THAT THE CREST OF THE IMMEDIATE DOWNSTREAM DAM IS LEVEL WITH THE TOE OF THE CHECK DAM BEING INSTALLED.
- 3. ENSURE THE CHANNEL SLOPE IS NO STEEPER THAN 10:1 (H:V). OTHERWISE
- CONSIDER THE USE OF A SUITABLE CHANNEL LINER INSTEAD OF THE CHECK DAMS. 4. EACH CHECK DAM SHALL BE EXTENDED UP THE CHANNEL BANK (WHERE PRACTICABLE) TO AN ELEVATION AT LEAST 150MM ABOVE THE CREST LEVEL OF
- WHEN PLACED ALONG A TABLE DRAIN, DO NOT RECESS THE LOG MORE THAN 1/3 THE LOG DIAMETER INTO THE BANK.
- 6. SECURE THE ROLL BY DRIVING THE STAKES BETWEEN THE OUTER NETTING AND THE CORE MATERIAL EACH SIDE OF THE ROLLS AND SECURED INTO THE GROUND, NOT THROUGH THE CENTRE OF THE ROLL.
- 7. ENSURE THE SPACING OF STAKES (ONE ON EITHER SIDE) DOES NOT EXCEED AN
- INTERVAL OF 1M. 8. ONCE DRIVEN INTO THE GROUND, THE STAKES SHOULD IDEALLY SIT AT LEAST TWO-THIRDS BELOW THE GROUND AND ONE-THIRD ABOVE, AND IDEALLY SIT FLUSH
- WITH THE TOP OF THE ROLL 9. FILL AND SHAPE BEHIND THE LOGS IF REQUIRED.

MAINTENANCE

- 1. INSPECT EACH CHECK DAM AND THE DRAINAGE CHANNEL AT LEAST WEEKLY AND
- AFTER RUNOFF-PRODUCING RAINFALL. CORRECT ALL DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN ANY OF THE CHECK DAMS, THEN CHECK THE SPACING OF DAMS AND WHERE
- NECESSARY INSTALL INTERMEDIATE CHECK DAMS OR A SUITABLE CHANNEL LINER. REMOVE ANY SEDIMENT ACCUMULATED BY THE CHECK DAMS. UNLESS IT IS INTENDED THAT THIS SEDIMENT WILL REMAIN WITHIN THE CHANNEL. DISPOSE OF COLLECTED SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

- REMOVAL WHEN CONSTRUCTION WORK WITHIN THE DRAINAGE AREA ABOVE THE CHECK DAMS HAS BEEN COMPLETED, AND THE DISTURBED AREAS AND THE DRAINAGE CHANNEL ARE SUFFICIENTLY STABILISED TO RESTRAIN EROSION, ALL TEMPORARY
- CHECK DAMS MUST BE REMOVED. 2. REMOVE THE CHECK DAMS AND ASSOCIATED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

PIT PROTECTION

WIRE MESH FILLED WITH SMALL ROCKS ARE TO BE USED FOR CHECK DAMS (e.g. SACK

GABIONS).

- INSTALLATION 1. ENSURE THAT THE INSTALLATION OF THE SEDIMENT TRAP WILL NOT CAUSE UNDESIRABLE SAFETY OR FLOODING ISSUES.
- 2. SECURE THE ROLL BY DRIVING THE STAKES BETWEEN THE OUTER NETTING AND THE CORE MATERIAL EACH SIDE OF THE ROLLS AND SECURED INTO THE GROUND, NOT THROUGH THE CENTRE OF THE ROLL.
- 3. ONCE DRIVEN INTO THE GROUND, THE STAKES SHOULD IDEALLY SIT AT LEAST TWO-THIRDS BELOW THE GROUND AND ONE-THIRD ABOVE, AND IDEALLY SIT FLUSH WITH THE TOP OF THE ROLL.

MAINTENANCE

- 1. INSPECT THE BARRIER AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT AND
- MAKE REPAIRS AS NEEDED TO THE SEDIMENT TRAP. 2. REMOVE COLLECTED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLTUION HAZARD.

REMOVAL

DO NOT SCALE

WHEN THE UP-SLOPE DRAINAGE AREA HAS BEEN STABILISED, REMOVE ALL MATERIALS INCLUDING DEPOSITED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

Drawn R. DELA CRUZ

DRAINAGE AND EROSION PROTECTION

EROSION PROTECTION

MATERIALS

1. GEOTEXTILE BLANKETS:

- (I) WOVEN POLYPROPYLENE FABRIC.
- (III) MINIMUM WIDTH OF 3.6M.

(II) MINIMUM THICKNESS OF 1.5MM.

2. STAPLES:

- (I) MINIMUM 11 GAUGE STEEL WIRE.
- (II) U-SHAPED WITH 200MM LEG LENGTH AND 50MM CROWN.

INSTALLATION

- 1. PREPARE A SMOOTH SEEDBED OF APPROXIMATELY 75MM OF TOPSOIL
- 2. APPLY SEED, SOIL AMELIORANTS AND WATER AS SPECIFIED, THEN RAKE TO REMOVE ANY REMAINING SURFACE IRREGULARITIES.
- 3. COMMENCE PLACEMENT OF THE BLANKETS AT THE TOP OF THE SLOPE. BURY THE UPPER EDGE OF THE BLANKET WITHIN A 300MM DEEP TRENCH AND STAPLE AT 150MM
- 4. DO NOT LAY BLANKETS DIAGONALLY ACROSS THE SLOPE.
- 5. OVERLAP END OF TOP BLANKET 300 MM AND STAPLE AT 150 MM CENTRES.
- 6. WHERE MORE THAN ONE BLANKET IS USED DOWN THE SLOPE, OVERLAP EACH BLANKET BY AT LEAST 300MM WITH THE UPPER BLANKET PLACED OVER THE LOWER
- BLANKET (SHINGLE STYLE). 7. STAPLE THE EXPOSED FABRIC SURFACE AT 1M CENTRES.
- 8. BLANKETS. ONCE FIXED. MAY BE ROLLED WITH A ROLLER WEIGHING 60 TO 90KG/M LENGTH, THEN WATERED.
- 9. THE INSTALLATION PROCEDURE MUST ENSURE THAT THE BLANKET ACHIEVES AND
- RETAINS INTIMATE CONTACT WITH THE SOIL. 10.DAMAGED FABRIC SHALL BE REPAIRED OR REPLACED.

- 1. DURING THE ACTIVE CONSTRUCTION PERIOD, INSPECT THE TREATED AREA FORTNIGHTLY FOR AT LEAST THE FIRST 3 MONTHS AND AFTER RUNOFF-PRODUCING STORM EVENTS AND MAKE REPAIRS AS NEEDED.
- 2. IF DAMAGED, REPAIR OR REPLACE THE DAMAGED SECTION. IF WATER IS UNDERMINING THE FABRIC, REPAIR ANY HOLES OR JOINTS OR RE-BURY THE UPPER ENDS OF THE DAMAGED SECTIONS.

SLOPE DRAINS

SLOPE DRAINS ARE TO BE USED WHERE INDICATED ON THE DRAWINGS TO MANAGED RUNOFF TO EXISTING GULLY FLOW PATHS. TWO TYPES HAVE BEEN INDICATED IN THE **DETAIL DRAWINGS:**

(A) FLEXIBLE, SOLID WALL PIPE, OR (B) HALF PIPE, WITH THE SELECTION TO BE CONFIRMED WITH THE ENGINEER OR

RESPONSIBLE SITE OFFICER.

- INSTALLATION 1. REFER TO APPROVED PLANS FOR LOCATION AND INSTALLATION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, OR METHOD OF
- INSTALLATION, CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE. 2. PLACE PIPES ON UNDISTURBED SOIL OR WELL-COMPACTED FILL AT LOCATIONS
- SHOWN ON THE APPROVED PLAN. 3. EXTEND THE SLOPE DRAIN DOWN THE SLOPE ENSURING THAT IT IS PLACED PERPENDICULAR TO THE SLOPE CONTOURS.
- 4. ENSURE THAT ALL PIPE CONNECTIONS ARE WATERTIGHT 5. ENSURE THAT ALL FILL MATERIAL IS WELL-COMPACTED. 6. SECURELY FASTEN THE PIPE DOWN THE SLOPE WITH ANCHORS SPACED NO MORE
- 7. EXTEND THE PIPE BEYOND THE TOE OF THE SLOPE AND ADEQUATELY PROTECT THE OUTLET OF THE PIPE FROM EROSION. DO NOT DIRECT THE OUTLET TO A FILL SLOPE OR UNSTABLE GROUND. 8. SLOPE DRAINS ARE TO BE COMBINED WITH EROSION PROTECTION WHERE INDICATED ON THE DRAWINGS. AT A MINIMUM EROSION PROTECTION MATTING WILL BE USED

BELOW THE OUTLET OF THE SLOPE DRAIN, AND WHERE DEEMED NECESSARY A ROCK

- OUTLET WILL BE USED FOR ENERGY DISSIPATION. WHERE INDICATED EROSION MATTING IS TO BE PLACED DIRECTLY UNDER THE PLACEMENT OF THE SLOPE DRAIN.
- 9. WHERE REQUIRED A STABILISED OUTLET STRUCTURE, SUCH AS A ROCK PAD (AS DETAILED ON THE PLANS), TO CONTROL SOIL SCOUR. 10. IMMEDIATELY STABILISE ALL DISTURBED AREAS FOLLOWING INSTALLATION OF THE

- MAINTENANCE WHILE CONSTRUCTION WORKS CONTINUE ON THE SITE, INSPECT ALL SLOPE DRAINS PRIOR TO FORECAST RAINFALL, DAILY DURING EXTENDED PERIODS OF RAINFALL,
- AFTER SIGNIFICANT RUNOFF PRODUCING RAINFALL, AND ON A WEEKLY BASIS.
- 2. INSPECT FOR:

OUTER SURFACE OF THE PIPE.

3. PROMPTLY MAKE ALL NECESSARY REPAIRS.

DRAINAGE PATH IS AVAILABLE.

- (I) SOIL EROSION AT THE INLET AND OUTLET; (II) SEDIMENT OR DEBRIS BLOCKAGE OF THE INLET;
- (III) WATER DAMAGE CAUSED BY LEAKAGE FROM PIPE JOINTS; (IV) DAMAGE OR SLUMPING OF THE ASSOCIATED INLET CONTROL FLOW DIVERSION BANK;
- (V) LEAKAGE OF WATER THROUGH THE FLOW DIVERSION BANK ALONG THE

Designed J. BERNARDI

1. SLOPE DRAINS SHOULD BE REMOVED ONLY WHEN AN ALTERNATIVE, STABLE,

2. REMOVE ALL MATERIALS AND COLLECTED SEDIMENT AND DISPOSE OF IN A SUITABLE

- MANNER THAT WILL NOT CAUSE AND EROSION OR POLLUTION HAZARD. 3. GRADE THE AREA AND SMOOTH IT OUT IN PREPARATION FOR STABILISATION.
- 4. STABILISE THE AREA AS SPECIFIED IN THE GENERAL REINSTATEMENT.

WYE RIVER AND SEPARATION CREEK ESCP

GENERAL NOTES

COLAC OTWAY SHIRE

Drawing No: 31-34316-G002

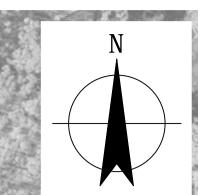
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Rev: B

RGC | AGR* | RPM* | 15.09.16 Colac Otway RSD RM* |09.08.16 AR* Naturally Progressive No | Revision Note: * indicates signatures on original issue of drawing or last revision of drawing Manager | Director Cad File No: G:\31\34316\CADD\Drawings\DRGS COPIED FROM MANILA_FOR REV B ISSUE\31-34316-G002.dwg

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LEGEND:

———— ROAD CENTERLINE CADASTRAL LOT

CONTOURS \longrightarrow \longrightarrow OVERLAND FLOW

WALKING PATH

SEDIMENT SOURCE PREVENTION / CONTROL:

STEEP EMBANKMENT PROTECTION HYDROMULCH EXPOSED AREAS GRAVEL REINSTATEMENT

LOT NUMBER

SEDIMENT / DEBRIS MANAGEMENT:

SEDIMENT / DEBRIS TRAP (ENDWALL)

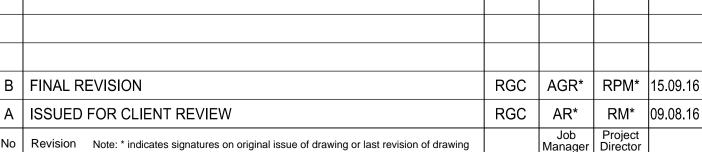
INLET PIT PROTECTION

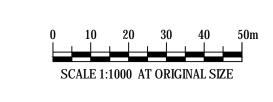
TABLE DRAIN WORKS EROSION PROTECTION

SLOPE DRAIN

| | TREATMENT DESCRIPTION | | | | | |
|----------------------------|-----------------------|-----------|----------------------------------|--|--|--|
| ITEM No. TYPE | | TYPE | DESCRIPTION | | | |
| 1 GR1 | | GR1 | GRAVEL REINSTATEMENT | | | |
| 2 TD1 | | TD1 | TABLE DRAIN WORKS | | | |
| | 3 | TD2 | TABLE DRAIN WORKS | | | |
| | 4 | SB1 | STEEP EMBANKMENT PROTECTION | | | |
| | 5 | PP1 | PIT PROTECTION | | | |
| | 6 | SD1 / EP2 | SLOPE DRAIN & EROSION PROTECTION | | | |
| | 7 | SDT1 | SEDIMENT / DEBRIS TRAP (ENDWALL) | | | |
| | 9 | EP1 | EROSION PROTECTION | | | |
| | 10 | GR2 | GRAVEL RE-INSTATEMENT | | | |
| | 11 | SB2 | STEEP EMBANKMENT PROTECTION | | | |
| | 12 | PP2 | PIT PROTECTION | | | |
| | 13 | TD1 | TABLE DRAIN WORKS | | | |
| | 14 | EP3 | SLOPE DRAIN & EROSION PROTECTION | | | |
| 15 SF1 16 SF2 17 GR3 | | SF1 | SILT FENCES | | | |
| | | SF2 | SILT FENCES | | | |
| | | GR3 | GRAVEL RE-INSTATEMENT | | | |
| | 18 | HM1A | HYDROMULCH | | | |
| 19 EP4 | | EP4 | EROSION PROTECTION | | | |
| 20 HM1 | | HM1 | HYDROMULCH | | | |
| 21 HM2 | | HM2 | HYDROMULCH | | | |
| | 22 | НМ3 | HYDROMULCH | | | |
| | 23 | HM4 | HYDROMULCH | | | |
| | 24 | HM5 | HYDROMULCH | | | |
| | 25 | HM6 | HYDROMULCH | | | |
| | 26 | HM7 | HYDROMULCH | | | |
| | 27 | HM8 | HYDROMULCH | | | |
| | 28 | HM9 | HYDROMULCH | | | |
| | 29 | SB3 | STEEP EMBANKMENT PROTECTION | | | |
| | 30 | TD4 | TABLE DRAIN WORKS | | | |
| | 125 | EP4A | EROSION PROTECTION | | | |
| | 126 | HM9A | HYDROMULCH | | | |
| | 127 | HM9B | HYDROMULCH | | | |
| | | | | | | |













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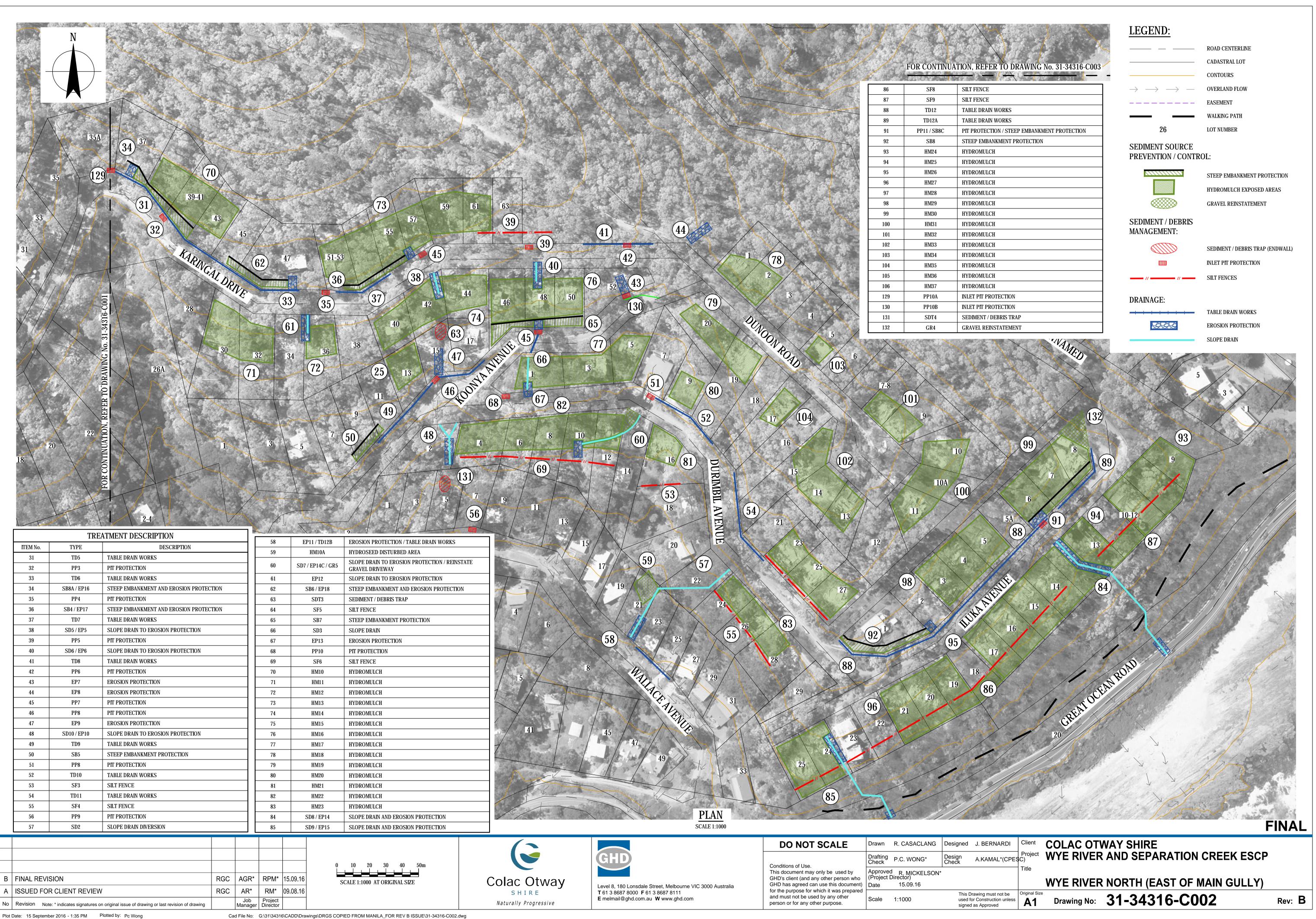
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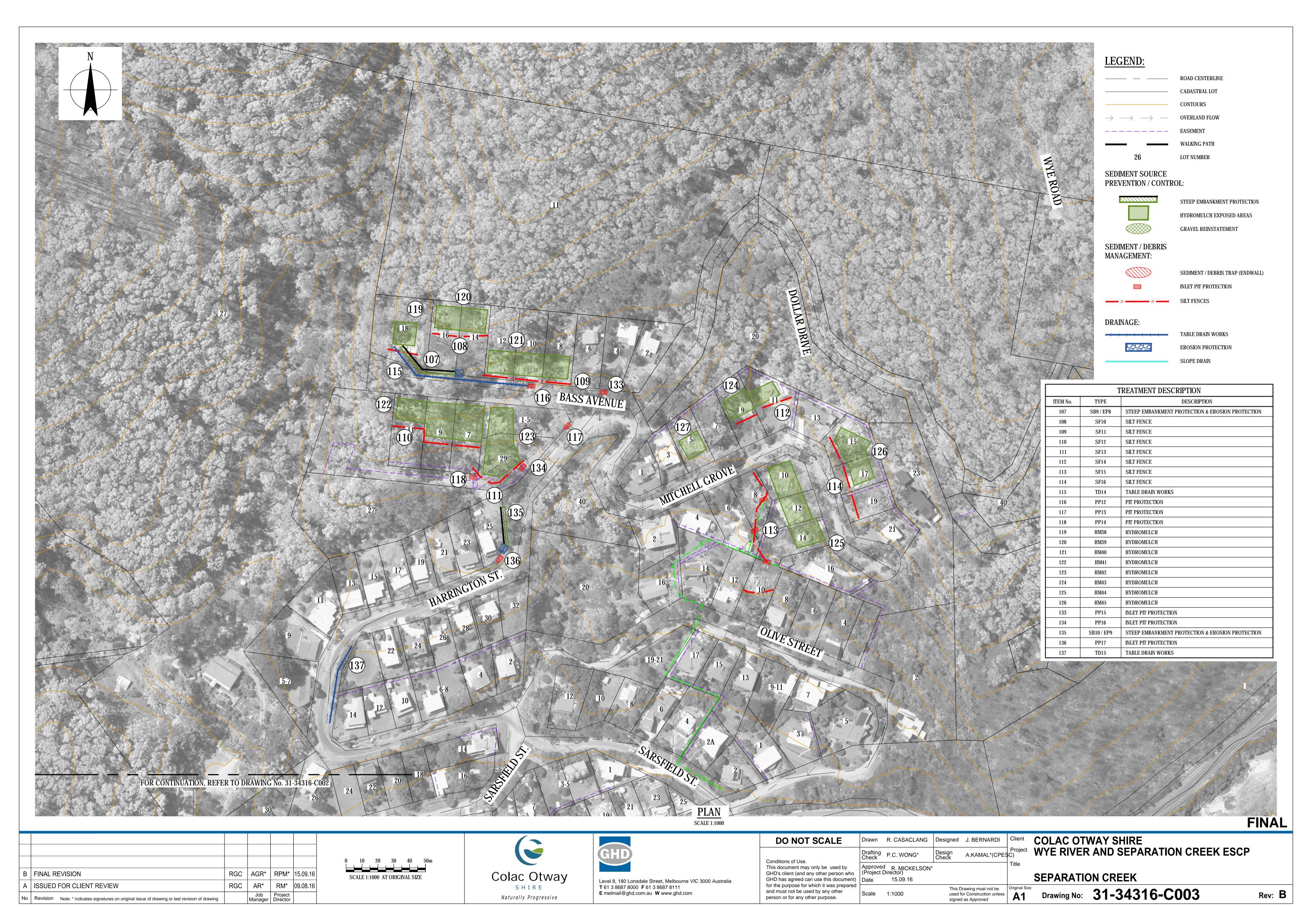
ent COLAC OTWAY SHIRE
Diect WYE RIVER AND SEPARATION CREEK ESCP WYE RIVER NORTH (WEST OF MAIN GULLY)

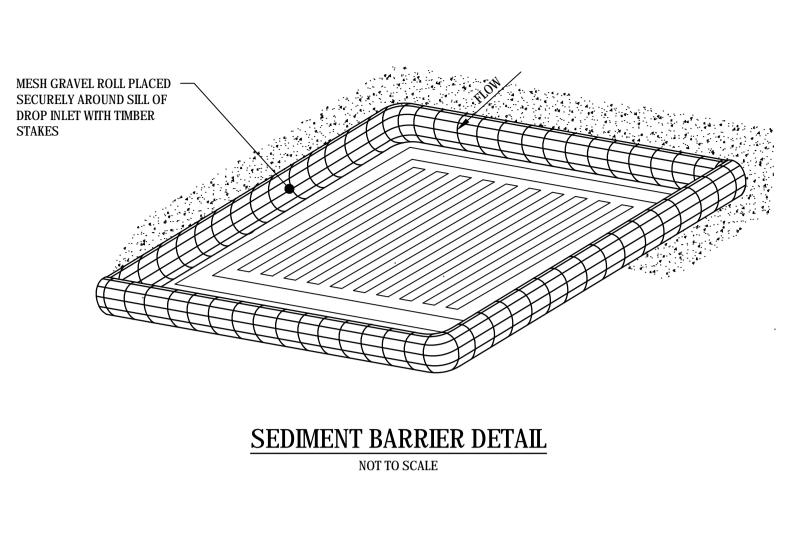
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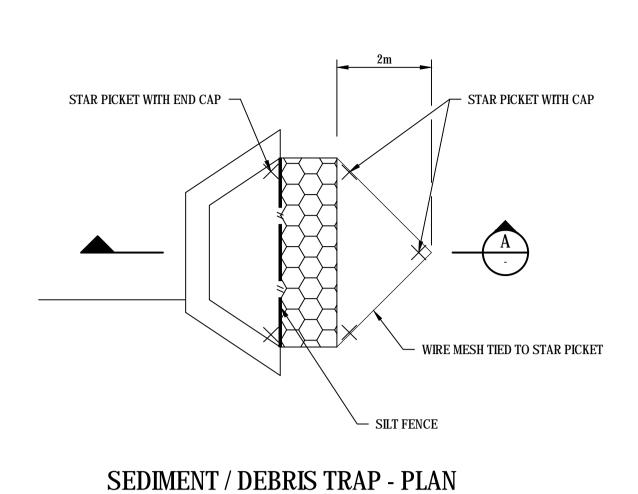
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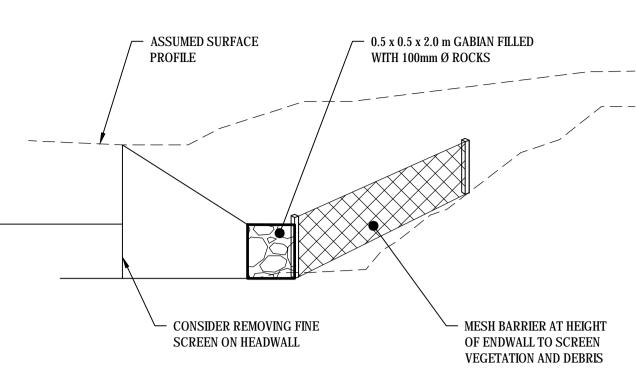
EP4B EROSION PROTECTION











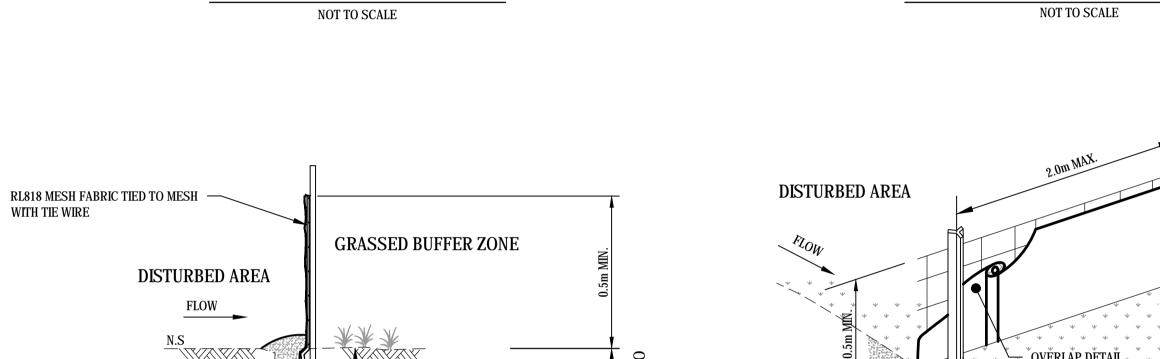
SECTION

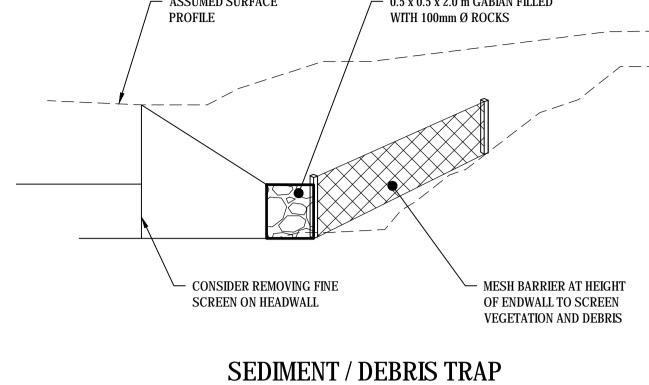
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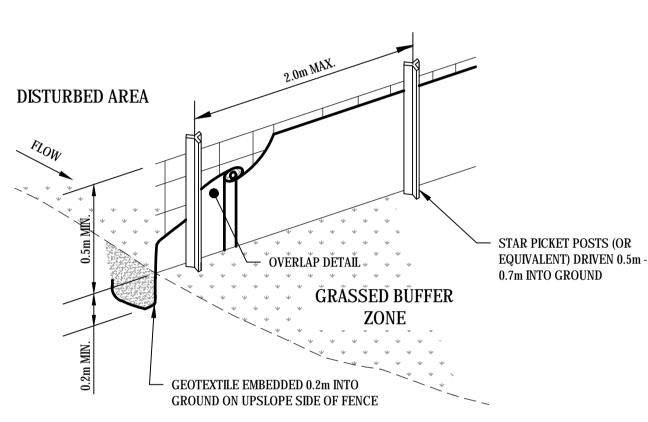
20m MAX.

GEOFABRIC

STAR PICKETS







- 200mmØ COIR LOG INSTALLED IN ACCORDANCE WITH MANUFACTURERS **SPECIFICATIONS** ROADWAY - WHERE APPROPRIATE EXTEND EROSION MATTING TO BASE OF SLOPE OR INVERT OF DRAIN EXISTING TABLE DRAIN (TYPICAL)

STEEP EMBANKMENT PROTECTION

(COIR LOGS)

GEOFABRIC SILT FENCE **SECTION**

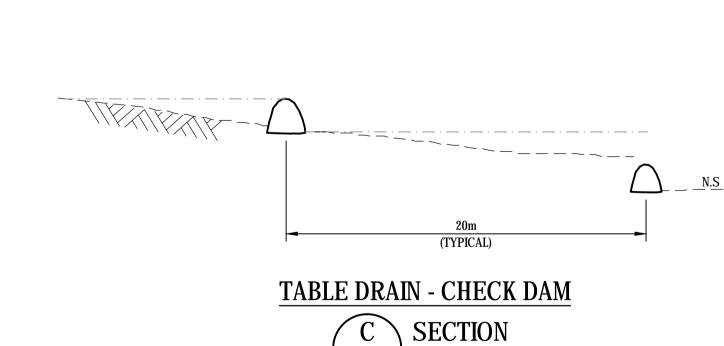
NOT TO SCALE



- GRAVEL ROLL IN NETTING EMBEDDED 75mm IN GROUND

GEOFABRIC SILT FENCE - PLAN

- SILT FENCE ON OR NEAR CONTOUR



person or for any other purpose.

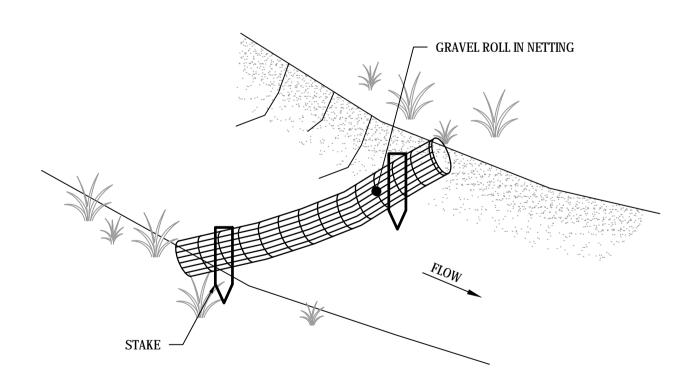


TABLE DRAIN - CHECK DAM (ELEVATION) NOT TO SCALE

NOTE: SPACING OF CHECK DAMS TO BE TYPICALLY 20m APART (UNLESS OTHERWISE INDICATED).

NOT TO SCALE

| TABLE DRAIN - CHECK DAM (PERSPECTIVE) | | | |
|---------------------------------------|--|--|--|
| NOT TO SCALE | | | |

| В | FINAL REVISION | RGC | AGR* | RPM* | 15.09.16 |
|----|--|-----|----------------|---------------------|----------|
| Α | ISSUED FOR CLIENT REVIEW | RSD | AR* | RM* | 09.08.16 |
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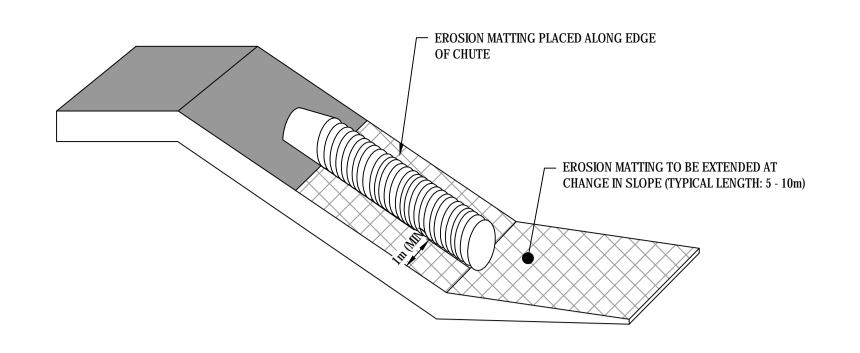
| | | | | F | |
|---------------|---|---------------|------------------------------------|-------------------|--|
| esigned | J. BERNARDI | Client | COLAC OTV | WAY SHIRE | |
| esign neck | A.KAMAL*(CPES | ′ | WYE RIVER AND SEPARATION CREEK ESC | | |
| | | Title | ESCP DETA | ILS, SHEET 1 OF 2 | |
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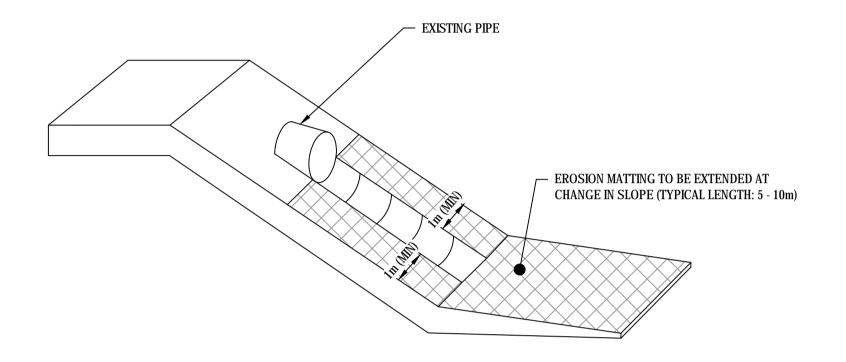
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GEOTEXTILE EMBEDDED 0.2m INTO

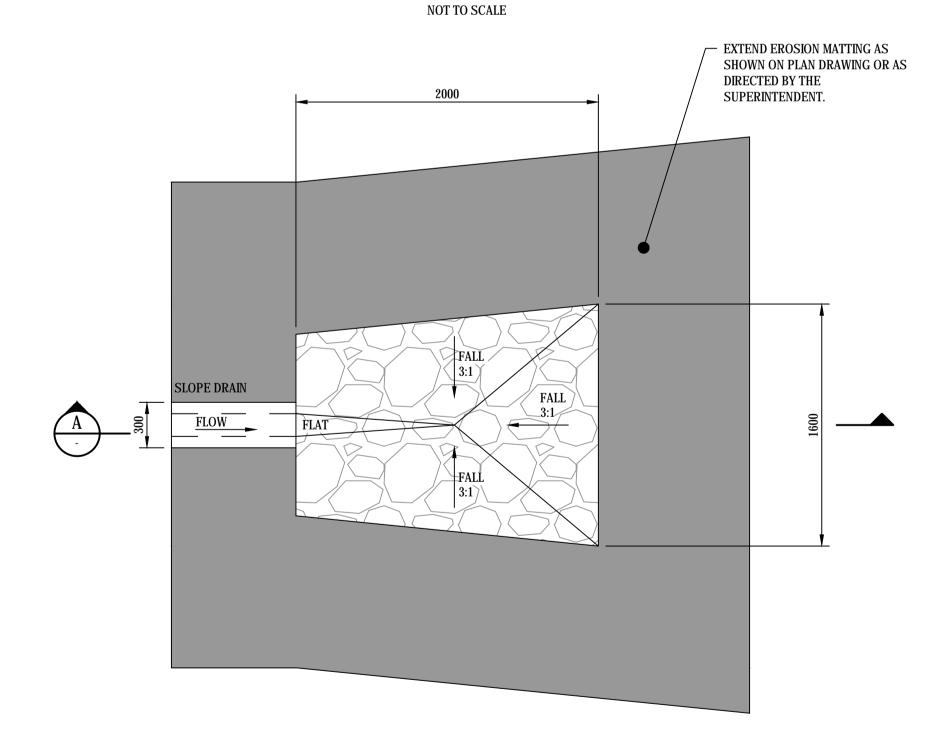
GROUND



WITH ROCK PAD OUTLET STRUCTURE NOT TO SCALE



TEMPORARY SLOPE DRAIN **(TYPE 2)**



ALTERNATIVE OUTLET ENERGY DISSIPATOR FOR A SLOPE DRAIN (IF REQUIRED)

DO NOT SCALE

Designed J. BERNARDI Drawn R. DELA CRUZ Drafting P.C. WONG* Approved R. MICKELSON* (Project Director)

COLAC OTWAY SHIRE WYE RIVER AND SEPARATION CREEK ESCP

TEMPORARY SLOPE DRAIN

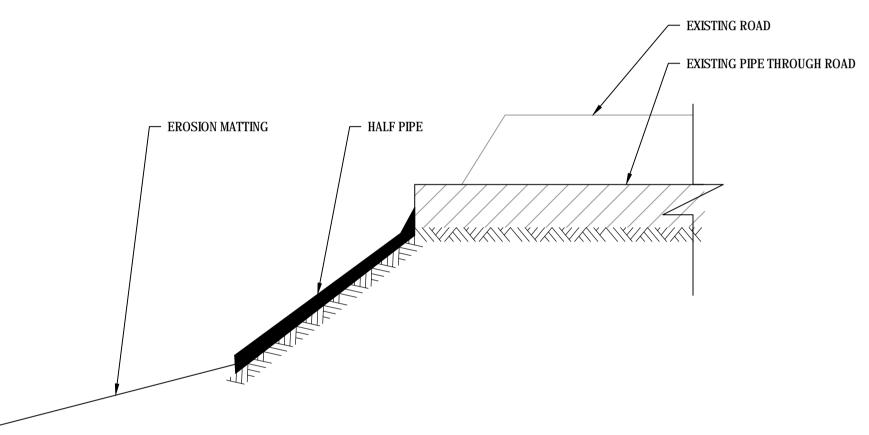
SLOPE DRAIN (TYPE 1) - FLEXIBLE, SOLID-WALL NOT TO SCALE

- CUT PIPE AS REQUIRED TO

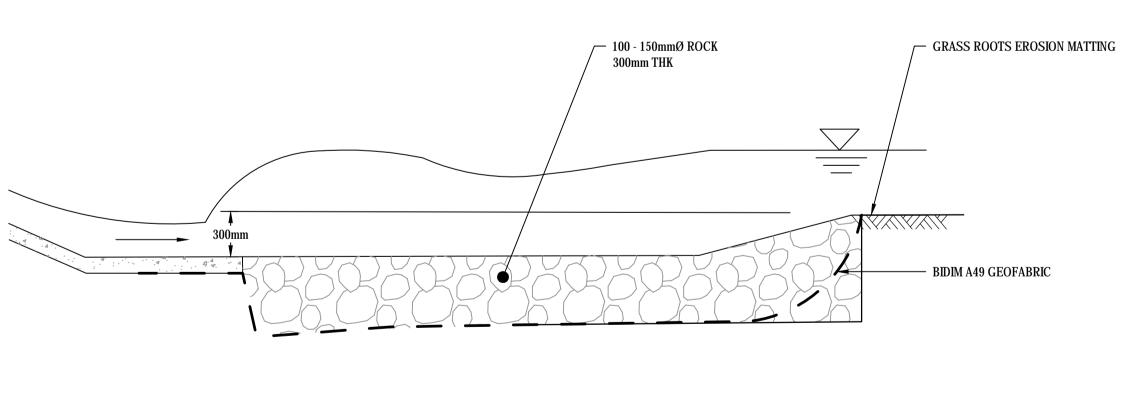
ALLOW FLOW TO ENTER

- EXISTING ROAD

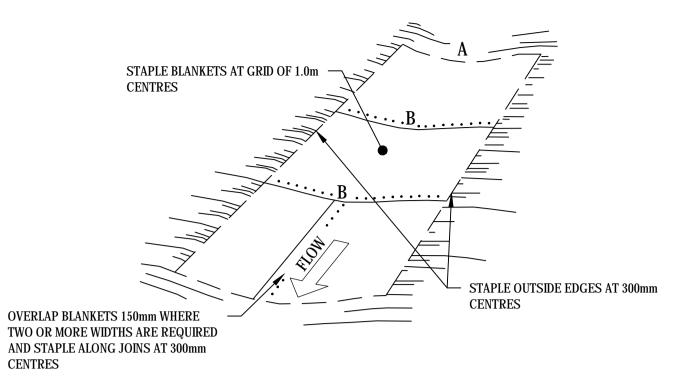
- EXISTING PIPE THROUGH ROAD



SLOPE DRAIN (TYPE 2) - HALF PIPE



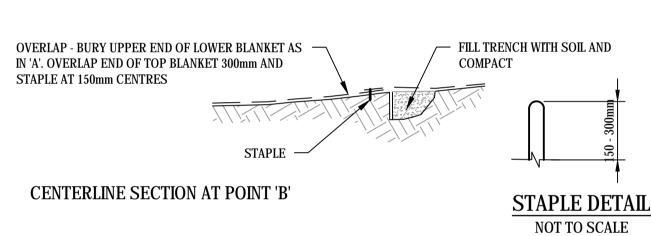




EROSION PROTECTION - PERSPECTIVE

NOTE: AFTER SEEDING AND LAYING EROSION CONTROL BLANKET, APPLY A SOIL BINDER IN AREAS OF HIGH EROSION HAZARD

BURY THE TOP OF THE BLANKET IN A TRENCH 300mm - FILL TRENCH WITH SOIL AND OR MORE IN DEPTH AND STAPLE AT 150mm CENTRES. COMPACT TAMP SOIL OVER BLANKET CENTERLINE SECTION AT POINT 'A'



EROSION PROTECTION - SECTIONS

NOTE:

1. DRAWINGS APPLICABLE TO TEMPORARY DRAINAGE CHUTES NOT PERMANENT DRAINAGE SOLUTION.

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B | FINAL REVISION

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