

Issue	Details of Issue	Desc'd	Drm	Chk'd	Approved	Date
A	DA REVIEW	GS	SW	CS		26.08.05

NOTALS SHOWN IN THE ADJACENT ISSUE RECORDS INDICATE THE STAGES UNDERTAKEN IN THE DRAWING APPROVAL PROCESS. DRAWINGS ARE ONLY TO BE USED WHEN APPROVED BY PATTERSON BRITTON & PARTNERS AND THEN ONLY AS NOTED FOR DRG STATUS. THE ORIGINAL SIGNATURES CAN BE FOUND ON THE REVERSE SIDE OF THE ORIGINAL OF THE DRG REGISTER/TRANSMITTAL FORM No.5.2. HELD BY PATTERSON BRITTON & PARTNERS

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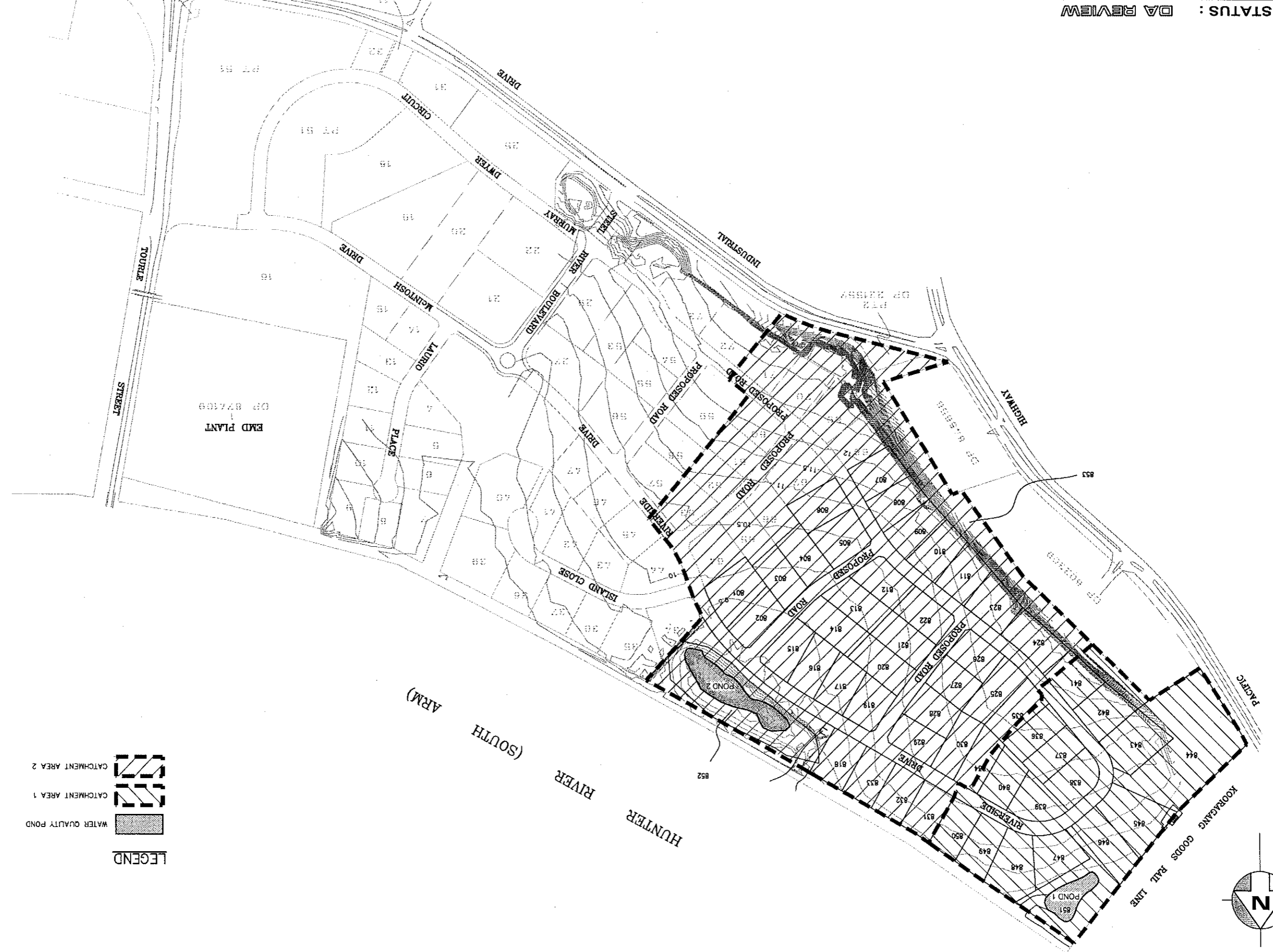
Client: **DOMAINE STEEL RIVER PTY LTD**  
Project: **STEEL RIVER STAGE 8 CIVIL WORKS**



**WATER QUALITY PONDS CATCHMENT PLAN**

Drawing No. **FIGURE 1**  
Issue **A**  
Cad File No. 6014-F01  
Xref(s)

DRG STATUS : DA REVIEW



**LEGEND**

- WATER QUALITY POND
- CATCHMENT AREA 1
- CATCHMENT AREA 2

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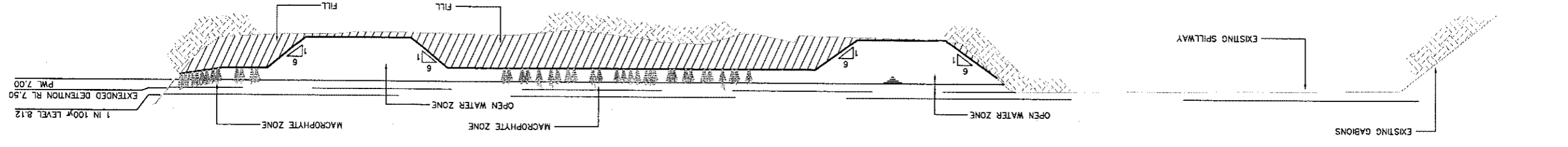


**WATER QUALITY POND 1 CONCEPT PLAN**

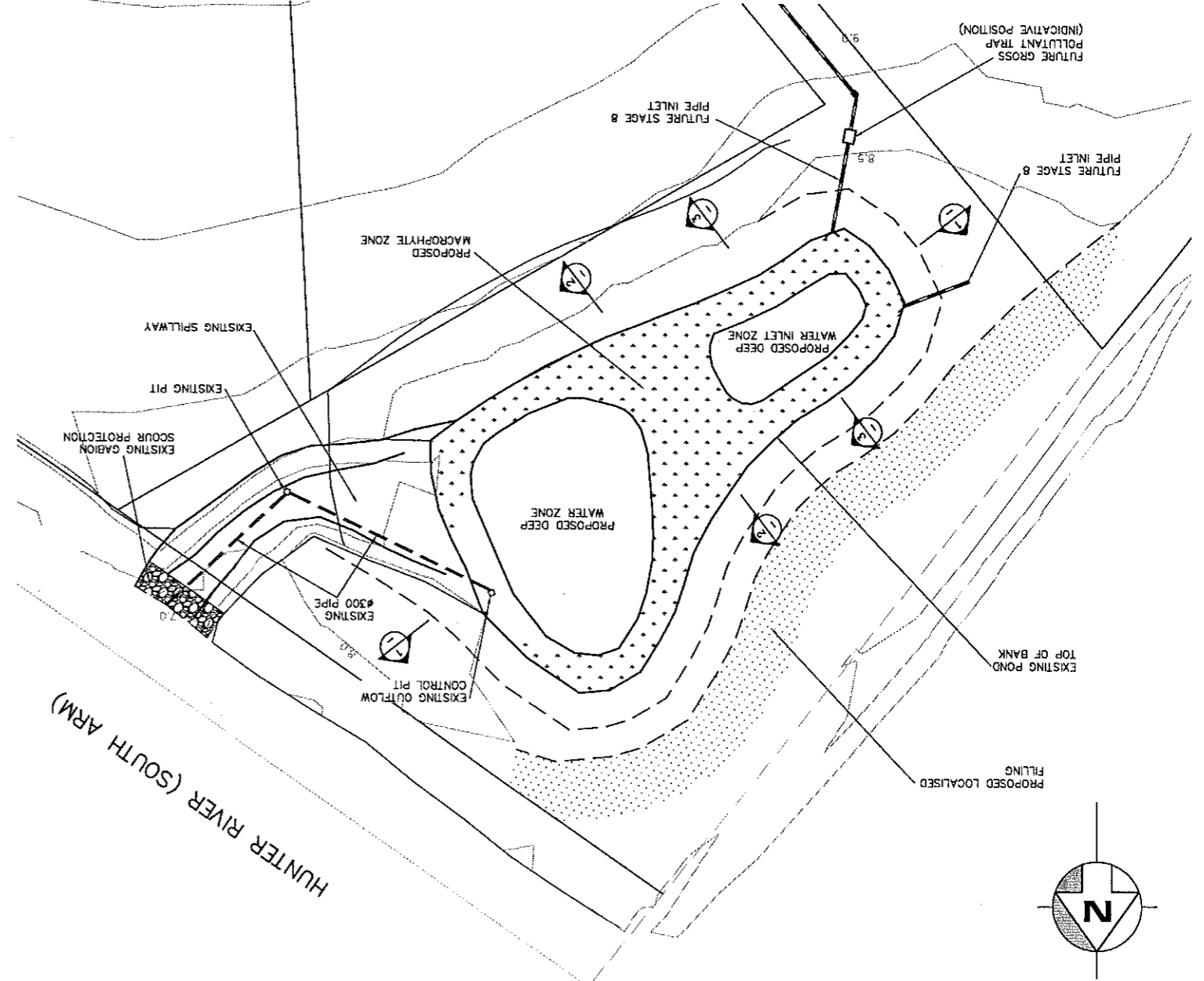
Drawing No. **FIGURE 2**  
Issue **A**  
Cod File No. 6014- FIG2  
Kref(a)

DRG STATUS : DA REVIEW

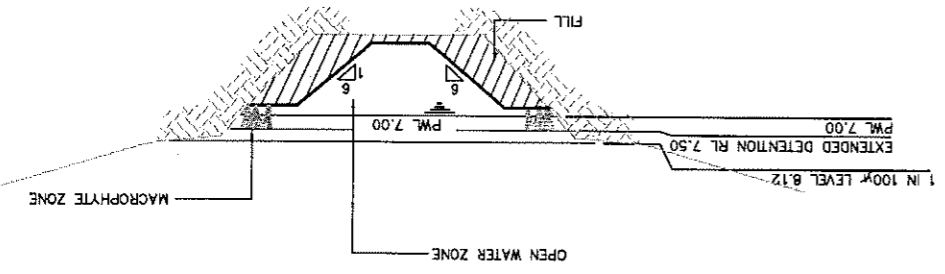
TYPICAL SECTION 1  
NOT TO SCALE



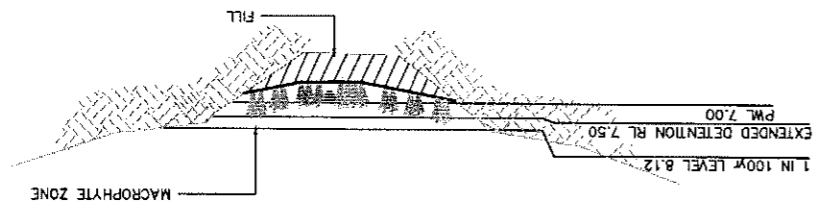
PLAN  
SCALE 1:500



TYPICAL SECTION 3  
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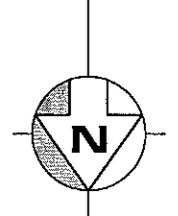


TYPICAL SECTION 2  
NOT TO SCALE



**POND CONSTRUCTION NOTES**

1. POND CONTAINS RUBBER LINER WHICH MUST NOT BE DAMAGED DURING CONSTRUCTION WORKS. ANY DAMAGE CAUSED TO THE LINER IS TO BE REPAIRED AT THE CONTRACTORS EXPENSE.
2. FILL PLACED IN BOTTOM OF POND TO BE COMPACTED TO 95% STANDARD COMPACTION DENSITY AT OPTIMUM MOISTURE CONTENT. LAYERS NOT TO EXCEED 200mm. CONTRACTOR TO PROVIDE GEOTECHNICAL CERTIFICATION OF ADEQUACY OF ON-SITE MATERIAL USED IN FILLING THE POND.
3. WATER TO BE DRAINED FROM POND DURING HIGH TIDE IN HUNTER RIVER ONLY. CONTRACTOR TO TEST QUALITY OF WATER PRIOR TO PUMPING OUT.



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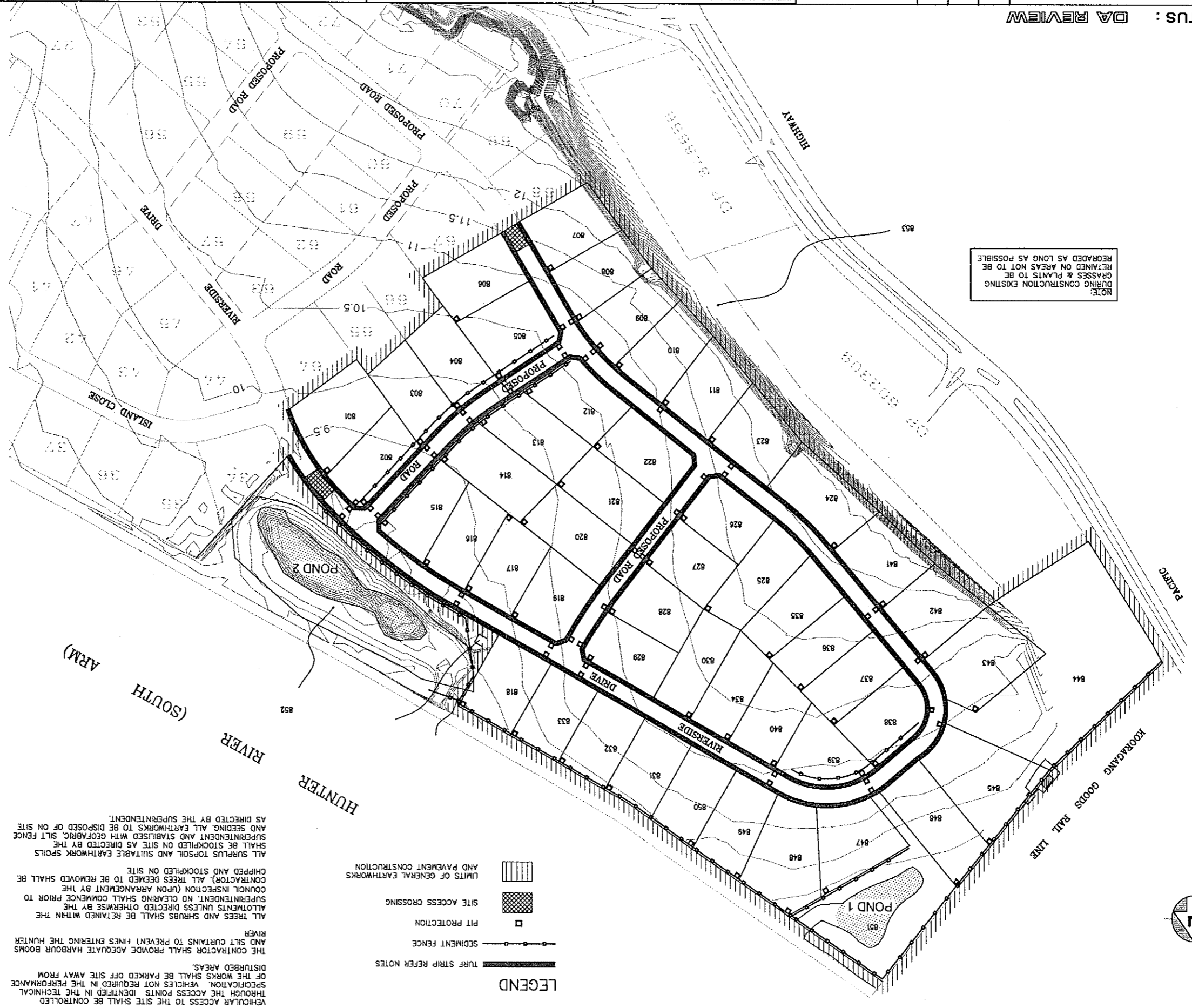
**Client**  
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**Project**  
STEEL RIVER STAGE 8 CIVIL WORKS



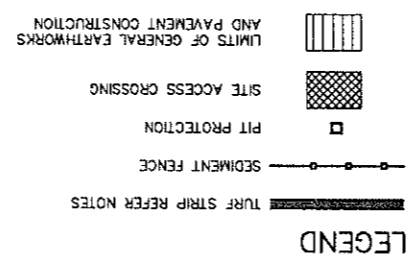
**EROSION & SEDIMENT CONTROL PLAN**

Drawing No. **FIGURE 3**  
Issue **A**  
Cod File No. 6014-RG3  
Xref(s)

**DRG STATUS : DA REVIEW**



NOTE:  
DURING CONSTRUCTION EXISTING GRASSES & PLANTS TO BE RETAINED ON AREAS NOT TO BE REGRADED AS LONG AS POSSIBLE



**SOIL EROSION AND SEDIMENT CONTROL**

(Continued)

VEHICULAR ACCESS TO THE SITE SHALL BE CONTROLLED THROUGH THE ACCESS POINTS IDENTIFIED IN THE TECHNICAL SUPERINTENDENT PRIOR TO ANY DISTURBANCES TO THE SOIL AND SEDIMENT CONTROL DEVICES SHALL BE TO THE STANDARD RECOMMENDED BY THE NSW DEPARTMENT OF HOUSING & BLUE BOOK TITLED "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION", 3rd EDITION, AUGUST 1998.

THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL SEDIMENT AND EROSION CONTROL DEVICES AND REMOVE ACCUMULATED SEDIMENT FROM SUCH DEVICES BEFORE 50% CAPACITY IS USED. ALL THE ACCUMULATED SEDIMENT SHALL BE RE-SPREAD OR REMOVED IN ACCORDANCE WITH THE SUPERINTENDENT'S INSTRUCTIONS. THE DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS THE DISTURBED AREAS HAVE BEEN REHABILITATED TO A CONDITION SATISFACTORY TO THE SUPERINTENDENT.

THE CONTRACTOR SHALL MAINTAIN ALL REVEGETATED AREAS INCLUDING WATERING AND FERTILISING UNTIL SUCH TIME AS THE VEGETATION HAS STABILISED THROUGHOUT MAINTENANCE PERIOD. THE CONTRACTOR SHALL ENSURE TEMPORARY CONTROLS DO NOT DAMAGE EXISTING KERBING, PAVEMENT OR SUBGRADES.

THE CONSTRUCTION OF EROSION AND SEDIMENT CONTROL DEVICES IN THE AREA OF THE EXISTING POND AND OVERFLOW CHANNEL IS NOT INDICATED ON THIS PLAN. THE CONTRACTOR SHALL CONFIRM REQUIREMENTS WITH THE SUPERINTENDENT REPRESENTATIVE AND COUNCIL IN THIS AREA PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL CONFIRM WITH THE SUPERINTENDENTS REPRESENTATIVE AND COUNCIL THE SUITABILITY OF THE EXISTING POND FOR USE AS A SEDIMENT BASIN. SHOULD THIS BE ACCEPTABLE CONSTRUCTION OF THE "TEMPORARY SEDIMENT BASIN" IS NOT REQUIRED.

GRAVEL FILLED "SAUCERS" OR HAY BALS SHALL BE PLACED AT REGULAR INTERVALS ALONG THE ROAD CUTTINGS FOLLOWING EXCAVATION. THESE MEASURES SHALL BE REMOVED FOLLOWING THEIR REMOVAL FOR CONSTRUCTION PURPOSES AND REMAIN IN USE FOLLOWING THE CONSTRUCTION OF THE CONCRETE KERBING.

DRAINAGE INLET PROTECTION TO BE PROVIDED FROM THE COMMENCEMENT OF THE EXCAVATION, EROSION AND SEDIMENT CONTROLS TO BE REVISED FOLLOWING COMPLETION OF PIT.

PROVIDE 450mm TURF STRIP BEHIND KERB AND CUTTER. REFER TO TYPICAL SECTION ON SHEET 4827-09 FOR ADDITIONAL DETAIL.

SELECTIVE CLEARING OF VEGETATION TO BE RESTRICTED TO NOMINATED AREAS WITH CLEARED VEGETATION MOUND ON THE CONTOUR.

ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED PRIOR TO SITE DISTURBANCE.

NO MORE THAN 150m OF TRENCH TO BE OPEN AT ANY ONE TIME.

CONSTRUCTION CUT FILL BATTER GRADIENT 1 in 4 (MAX). PERMANENT BATTER TO BE 1 in 6.

ALL SEDIMENT CONTROL STRUCTURES TO BE INSPECTED FOLLOWING EACH RAINFALL EVENT FOR STRUCTURAL DAMAGE AND ALL TRAPPED SEDIMENT TO BE REMOVED TO A NOMINATED SITE.

THE CONTRACTOR SHALL INFORM ALL SUB-CONTRACTORS OF THEIR OBLIGATIONS UNDER THE EROSION AND SEDIMENT CONTROL PLAN. NO DISTURBED AREA SHALL REMAIN DENuded FOR A PERIOD LONGER THAN 20 DAYS.

ALL FILLS ARE TO BE LEFT WITH A UP AT THE TOP OF THE SLOPE AT THE END OF THE DAYS ACTIVITIES. ALL CUT AND FILL SLOPES ARE TO BE SEDED AND MULCHED WITHIN 10 DAYS OF THE COMPLETION OF FORMATION.

THE CONTRACTOR MUST ENSURE THE SUITABILITY AND INTEGRITY OF ALL WORKS AT THE END OF EACH DAYS WORK.

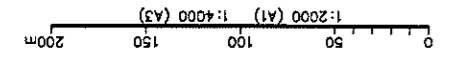
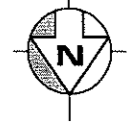
NOMINATED UNDISTURBED AREAS SHALL BE BARRICADED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

ALL PUBLIC ROADS ARE TO BE SWEEP FREE OF DEBRIS RESULTING FROM CONSTRUCTION ACTIVITIES. SWEEPING SHALL BE UNDERTAKEN AT A MINIMUM THREE WEEKLY.

ALL EXISTING PITS IMMEDIATELY DOWNSTREAM OF THE WORKS ARE TO BE PROVIDED WITH SEDIMENT CONTROL PROTECTION.

PROVIDE SEDIMENT CONTROLS ON THE EXISTING DRAINAGE SYSTEM OUTLETS.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LOCATED ON EXISTING ROADWAYS SO AS NOT TO ENCROACH THE TRAFFICABLE LANES. ALL EROSION CONTROL MEASURES PLACED ON THESE ROADS SHALL BE CLEARLY IDENTIFIABLE DURING BOTH DAY AND NIGHT.



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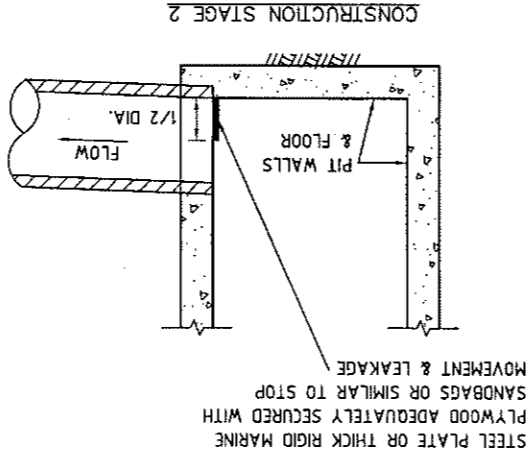
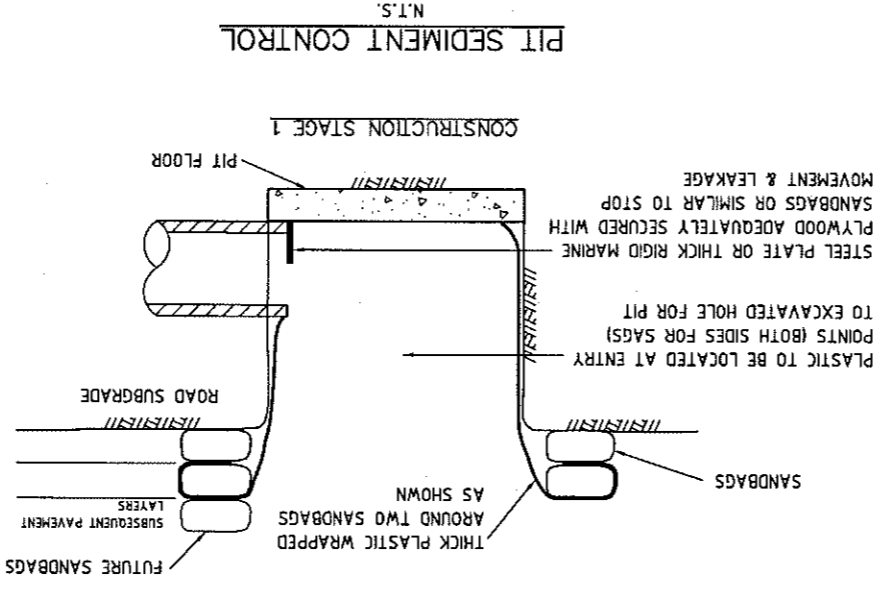
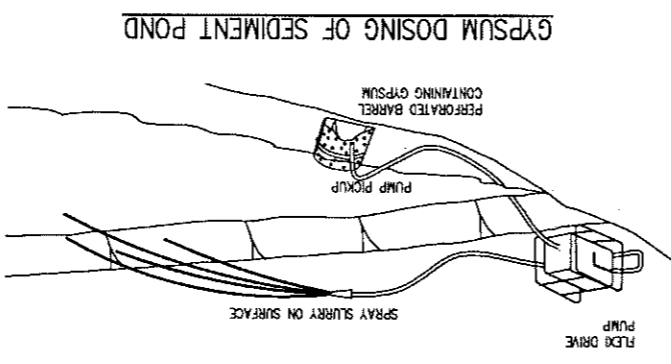
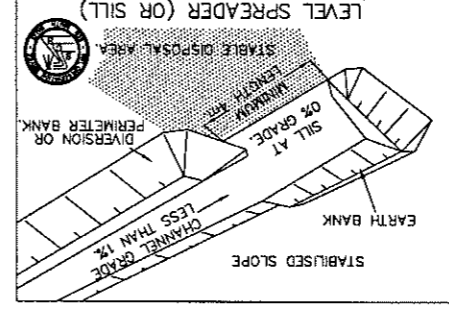
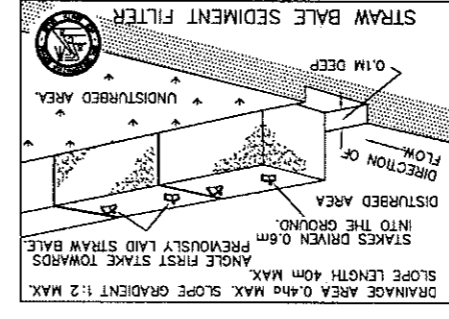
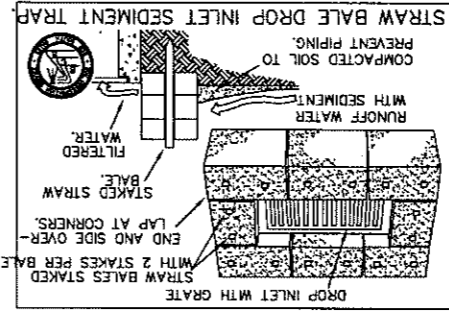
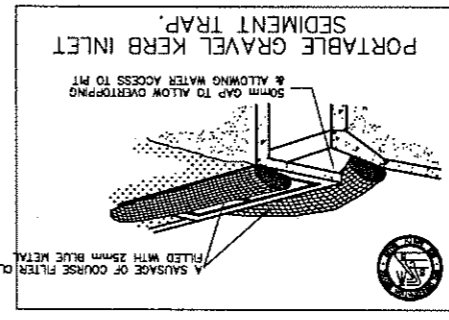
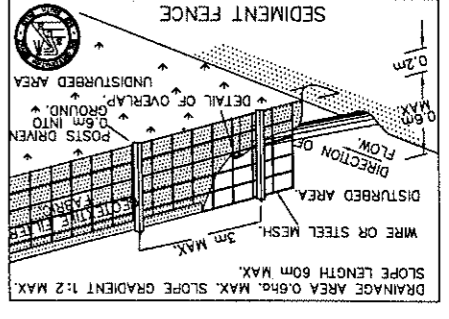
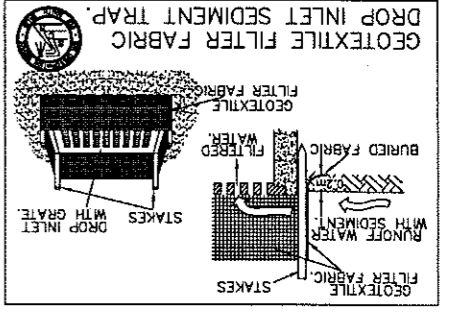
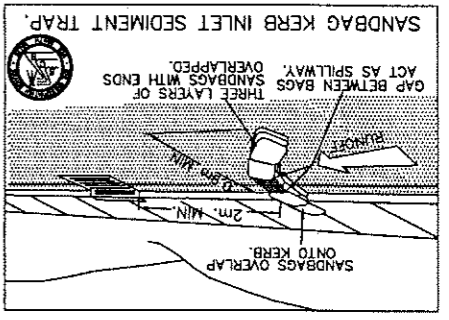
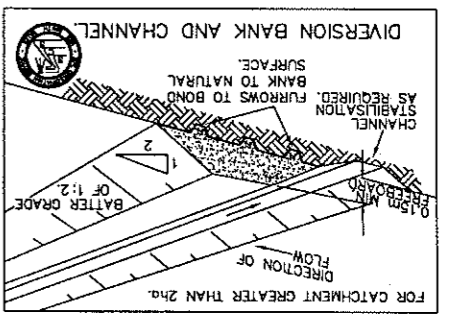
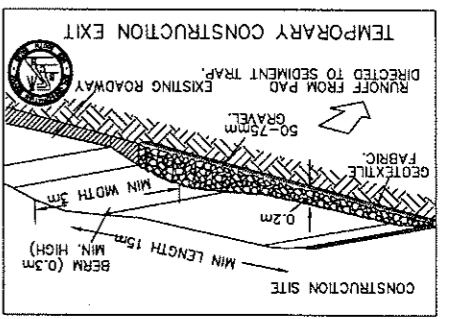
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**EROSION & SEDIMENT CONTROL DETAILS**

Drawing No. **FIGURE 4**  
 Issue **A**  
 Code File No. 6014-FIG4  
 Xref(s)

**DRG STATUS : DA REVIEW**



**SEEDING TABLE**

ALL DISTURBED AREAS ARE TO BE STABILISED AND/OR REVEGETATED WITHIN 14 DAYS OF THE EARTHWORKS COMPLETION, USING TURF OR THE FOLLOWING SEED AND FERTILISER MIXTURE:

Plant Type	Spring/Summer	Autumn/Winter
Japanese Millet	5 kg/ha	5 kg/ha
Ryegrass/Oats	15 kg/ha	15 kg/ha
Couch Grass	10 kg/ha	10 kg/ha
Rhodes Grass	10 kg/ha	10 kg/ha
Perennial Ryegrass	5 kg/ha	5 kg/ha
Starter Fertiliser	300 kg/ha	300 kg/ha
Maintenance Fertiliser (Following Spring Autumn)	100 kg/ha	100 kg/ha

\* NOT TO BE USED ADJACENT TO BUSHLAND AREAS.

**PIT SEDIMENT CONTROL**

**GYPSUM DOSING OF SEDIMENT POND**

N.T.S.

**DRG STATUS : DA REVIEW**