



KEY	APPROXIMATE LOCATION/ SCHEMATIC ONLY
	PROJECT BOUNDARY
	VEGETATION PROTECTION AREA – NO WORKS EXCEPT PER DETAILED IN VEGETATION MANAGEMENT PLAN
	LIMITED PERMITTED WORKS – SEE NOTE THIS SHEET (SHEET 1000)
	ALIGNMENT/FOOTPRINT OF PRIMARY RETAINING WORKS
	TYPE 3 SEDIMENT CONTROL – SEDIMENT FENCE PER SD 6.8 OR FENCE REINFORCED WITH MULCH /TOPSOIL BERM
	FOOTPRINT/EXTENT OF THE FUTURE ESTATE OSD
	SEDIMENT BASIN -PER SD 6-4 SEE BASIN SCHEDULE THIS SHEET (SHEET 1000)
	CHANNELISED CLEAN WATER FLOW – OVER STABLE SURFACE OR PROTECTED AREAS
	CHANNELISED SITE WATER FLOW – SWALE DRAIN OR BUND PER SD 5.6
	DIRECTION OF FALL – SITE CATCHMENTS
	DIRECTION OF FALL – STABLE OR OFFSITE CATCHMENTS
	STOCKPILE AREA INDICATIVE ONLY – SEE NOTES ON STOCKPILING SHEET 0001

CATCHMENT SCHEDULE – SEE CALCULATIONS SHEET 0001			
CATCHMENT	AREA (EST) HA	BASIN AT 190m3/HA (M3)	BASIN AT 228m3/HA (M3)
1	1.25 HA	237.5	285
2	2.5 HA	475	570
3	1.2 HA	228	273.6
4	3.4 HA	646	775.2
5	6.0 HA	1140	1368
6	5.6 HA	1064	1276.8
7	2.5 HA	475	570

- NOTES TO THIS SHEET**
- GENERAL ARRANGEMENT SHOWS APPROXIMATE LOCATION OF PRIMARY CONTROLS ONLY – LOCATION TO BE CONFIRMED AGAINST SURVEY AND SET OUT PER ENGINEERING DRAWINGS
 - SEE SHEETS 1001-1004 OR ESC CONTROLS OVER CONSTRUCTION GENERAL ARRANGEMENT
 - CATCHMENT CALCULATIONS BASED ON ESTIMATED AREA +20% TO ALLOW FOR FLEXIBILITY IN BOUNDARIES AND ALSO BASIN MANAGEMENT – CATCHMENT BOUNDARIES AND AREAS TO BE CONFIRMED BY CONTRACTOR POST CLEARING
 - SEE SHEET 0001 FOR COMPLIANCE REQUIREMENTS TABLE FOR SSD 36138263
 - LOCATION OF FUTURE SIGNIFICANT ITEMS (RETAINING WALLS AND OSD) PROVIDED TO SHOW RELEVANT LOCATION TO TEMPORARY CONSTRUCTION CONTROLS AND ASSIST WORK STAGING
 - LIMITED PERMITTED WORKS – EXISTING NATIVE VEGETATION TO BE PROTECTED & RETAINED WHERE POSSIBLE. LIMIT WORKS TO THAT DETAILED IN DEMOLITION /CLEARANCE PLANS & VMP
 - BASIN CALCULATIONS BASED ON ESTIMATED VOLUME +20% TO ALLOW FOR FLEXIBILITY IN CATCHMENT BOUNDARIES AND ALSO BASIN MANAGEMENT – CATCHMENT BOUNDARIES AND AREAS TO BE CONFIRMED BY CONTRACTOR POST CLEARING
 - INSTALLATION OF CONTROLS TO BE INSPECTED AND CONFIRMED BY ESC SPECIALIST/CPESC.

GENERAL NOTES TO EROSION AND SEDIMENT CONTROL
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GUIDELINES
THIS ESCP HAS BEEN PREPARED TO BE IN ACCORDANCE WITH THE FOLLOWING BEST MANAGEMENT GUIDANCE DOCUMENTS.

- MANAGING URBAN STORMWATER – VOLUME 1 (LANDCOM 2004) (THE BLUE BOOK) AND VOLUMES 2 WHERE RELEVANT
- BEST PRACTICE EROSION AND SEDIMENT CONTROL (IECA 2008).



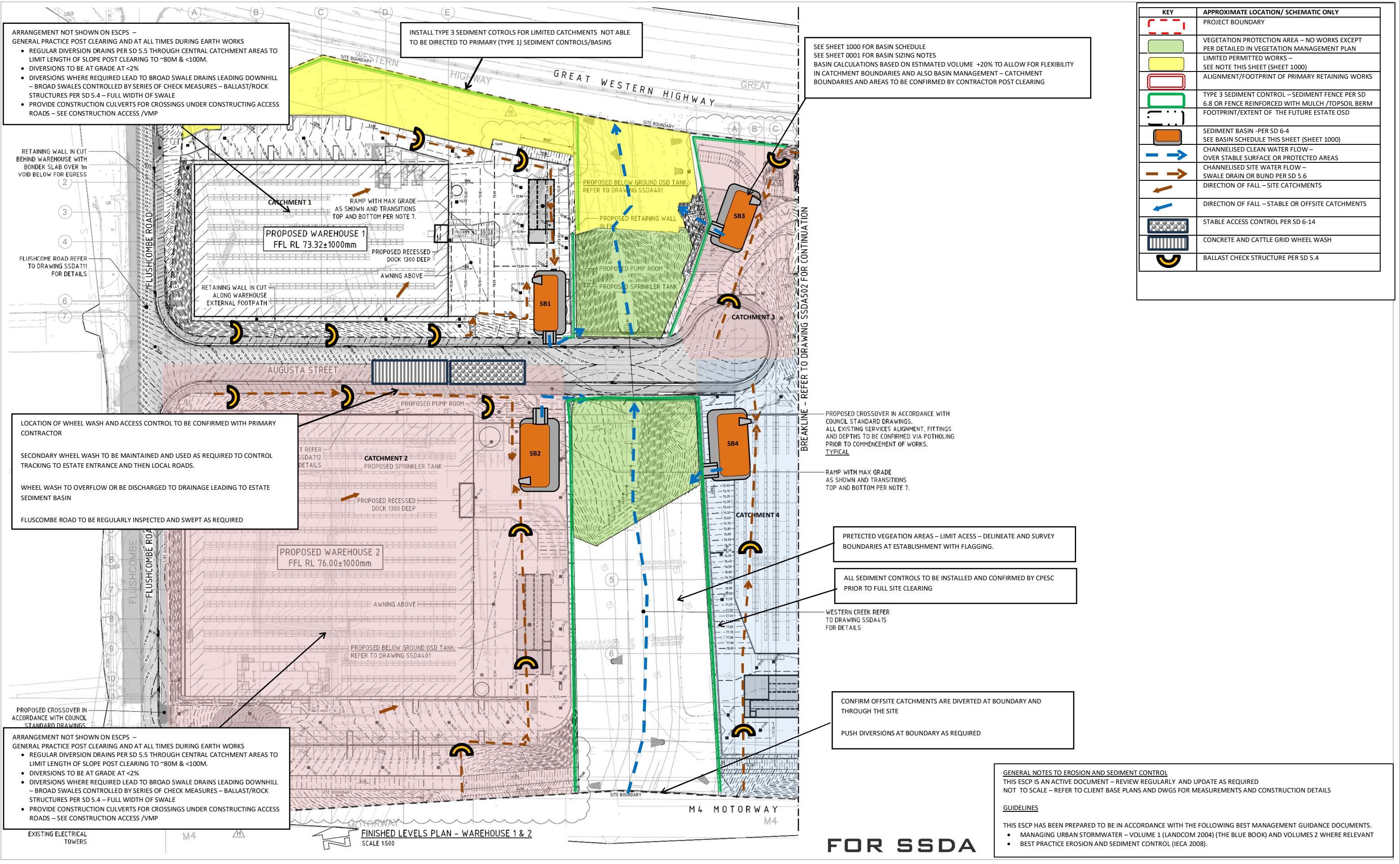
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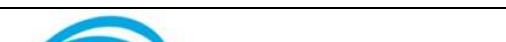
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C VINCENT (CPESC # 2385)

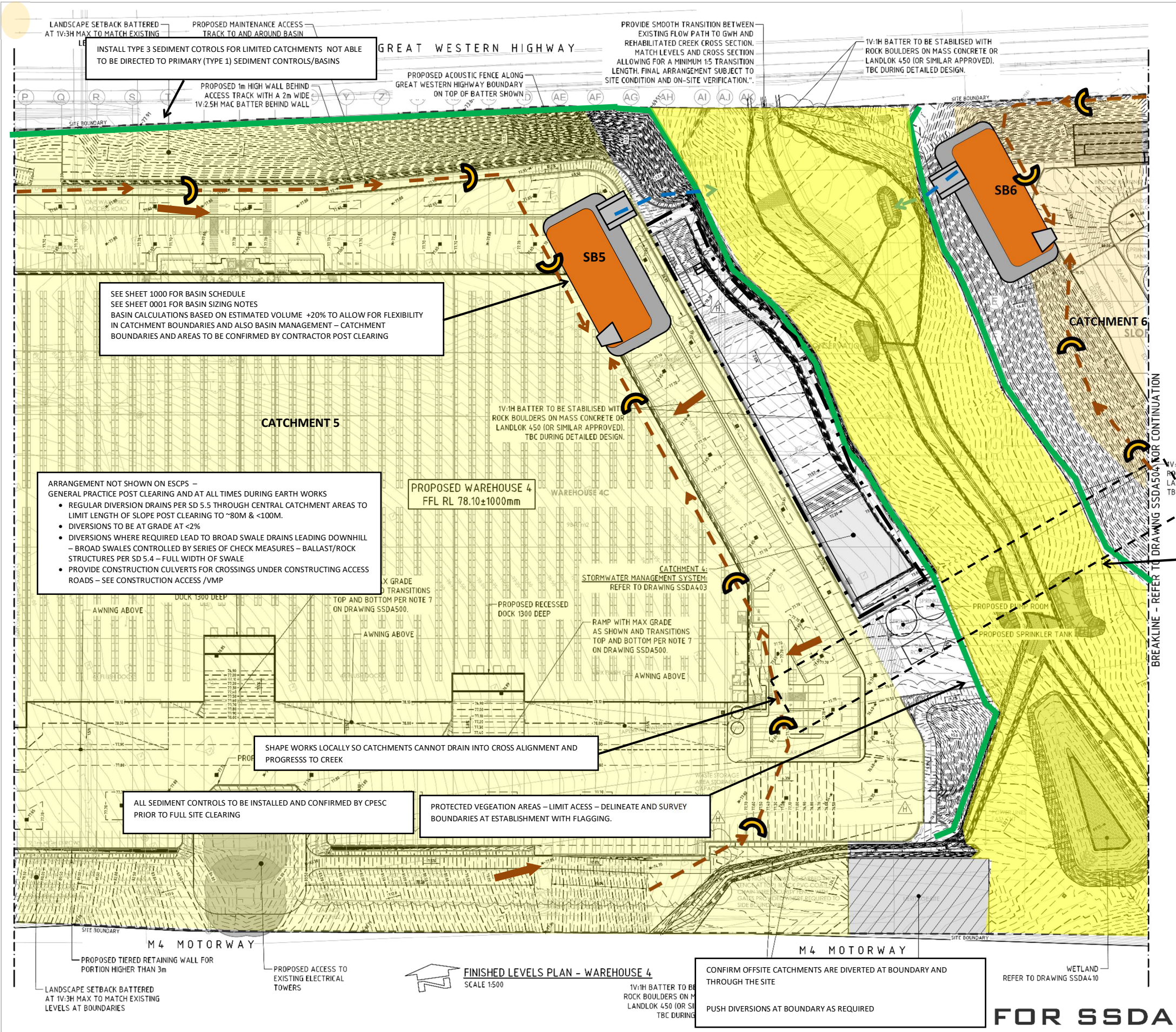
REV	DATE	DWN	DETAILS
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2.	GENERAL ARRANGEMENT – SHEET 1001
3.	GENERAL ARRANGEMENT – SHEET 1002
4.	GENERAL ARRANGEMENT – SHEET 1003
5.	GENERAL ARRANGEMENT – SHEET 1004
6.	NOTES AND DETAILS TO ESC – SHEETS 0001-0002
CLIENT BASE PLAN: SY074904.002.12.1 SURVEY	

CLIENT	MODALUS	PROGRESSIVE EROSION AND SEDIMENT CONTROL PLAN				
DRAWN	CV	SSD 36138263 HUNTINGON LOGISTICS ESTATE – GENERAL ARRANGMENT SHEET STAGE 1				
CREATED	JAN 2025					
-	25002	ESC	EW	1000	0	29/01/25
SHEET	ERSED REF	PLAN	PREFIX	SHEET	AMDT	DATE



	ERSED ENVIRONMENTAL PTY LTD PO BOX 1124 LEICHARDT 2040 M. 0424 203 046 E. info@ersed.com.au	REV 0	DATE 29/01/25	DWN CV	DETAILS FOR REVIEW	SHEETS IN THIS PLAN SET 1. KEY TO PESCPs / SURVEY & CATCHMENT SCHEDULE SHEET 1000 2. GENERAL ARRANGEMENT – SHEET 1001 3. GENERAL ARRANGEMENT – SHEET 1002 4. GENERAL ARRANGEMENT – SHEET 1003 5. GENERAL ARRANGEMENT – SHEET 1004 6. NOTES AND DETAILS TO ESCP – SHEETS 0001-0002	CLIENT	MODALUS	PROGRESSIVE EROSION AND SEDIMENT CONTROL PLAN						
	PLAN PREPARED BY C VINCENT (CPESC # 2385)							DRAWN	CV	SSD 36138263 HUNTINGON LOGISTICS ESTATE – GENERAL ARRANGMENT SHEET STAGE 1					
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	STABLE ACCESS CONTROL PER SD 6-14
	CONCRETE AND CATTLE GRID WHEEL WASH
	BALLAST CHECK STRUCTURE PER SD 5.4

- FOR STAGE 1 –
- CROSSING OF BLACKTOWN CREEK TO BE AS LEVEL CAUSE WAY
 - CROSSING TO SERVE AS BASE FOR RAISED PIPED CULVERT CROSSING PER ENGINEERING DESIGN
CONFIRM SUITABILITY WITH CONTRACTOR ENGINEERING TEAM.
- CAUSEWAY TO BE CONSTRUCTED USING METHOD BELOW DURING DRY WEATHER ONLY
- FORM CHECK STRUCTURE ACROSS UPSTREAM EXTENT OF CROSSING – LAY GEOTEXTILE ACROSS EXTENT AND FILL WITH ROCK OR OTHER CLEAN MATERIAL TO DETAIN FLOWS.
 - INSTALL SEDIMENT FENCE ACROSS LOWER EXTENT OF CROSSING OFFSET ADDITIONAL 3M+.
 - STRIP ALIGNMENT OF CROSSING AND BOX OUT APPROXIMATELY 500MM OR LESS ONCE UNIFORM MATERIAL IS ENCOUNTERED. IF VERY UNSTABLE MATERIAL IS ENCOUNTERED – CONFIRM DEPTH WITH GEOTECHNICAL ENGINEER.
 - WIDTH OF CROSSING BASE TO BE A MINIMUM OF 8M WIDE TO ALLOW RAISED HEIGHT OF CROSSING TO MINIMUM SAFE CROSSING WIDTH – TBC WITH CONTRACTOR
 - LAY GEOTEXTILE STRIPPED SURFACE – PROVIDE ADDITIONAL GEOTEXTILE APRON OF MIN 1M UP STREAM AND DOWN STREAM TO ALLOW FOR LAYERING OF FUTURE FABRIC. ANY LAP OF LAYERS OF FABRIC WITHIN BASE TO BE A MINIMUM 500MM
 - INSTALL CLEAN GRADED BASALT/BLUE METAL BALLAST (300MM MINUS) TO FILL STRIPPED INVERT OF CREEK BED PLUS 500MM
 - BALLAST ROLLED AND VIBRATED IN TO FORM A STABLE ROCK CROSSING
 - RETAIN ADDITIONAL APRON OF FABRIC AT UPPER AND LOWER AREAS FOR USE AS REQUIRED IN CONSTRUCTION OF RAISED PIPE CROSSING . PIPE CROSSING TO BE CONFIRMED BY SITE ENGINEERING STAFF
 - RELEASE SEDIMENT FENCE FROM STAR PICKETS ONCE CROSSING HAS BEEN COMPLETED
 - RETAIN BALLAST ABOVE OR UTILISE MATERIAL WITHIN CROSSING

- SPECIFIC NOTES FOR STAGING AND WORKS FOR PROTECTION OF CREEK WORKS – NOT AS PART OF STAGE 1
- FURTHER DETAILS IN SUBSEQUENT STAGES
- LARGE BUND TO BE FORMED ACROSS HEAD OF CHANNEL AT PROJECT BOUNDARY
 - INCLUDE LINED PICK UP POINT FOR PUMP AROUND
 - CREEK AREA TO BE BROKEN UP IN APPROX. 50M SECTIONS WITH ADDITIONAL LINED BUND AND PICK UP POINTS FOR EACH SECTION.
 - WORKS TO PROGRESS IS LIMITED SECTIONS WORKING FROM THE LOWER REACHES UP CHANNEL.
 - PUMP AROUND AS REQUIRED TO LOWER COMPLETED AND STABILISED SECTIONS.
 - FINAL UPPER BUND AND PUMP AROUND REMOVED AS FINAL WORKS TO COMPLETE.
 - AT ALL TIMES MAINTAIN STABLE DISCHARGE POINTS FOR OVERFLOW FROM ADJACENT BASINS
 - FOR FLOOD EVENTS – LINE OPENED AND INCOMPLETE CHANNEL WITH GEOTEXTILE AND ALLOW WATER TO FLOW THROUGH AS FLOOD.

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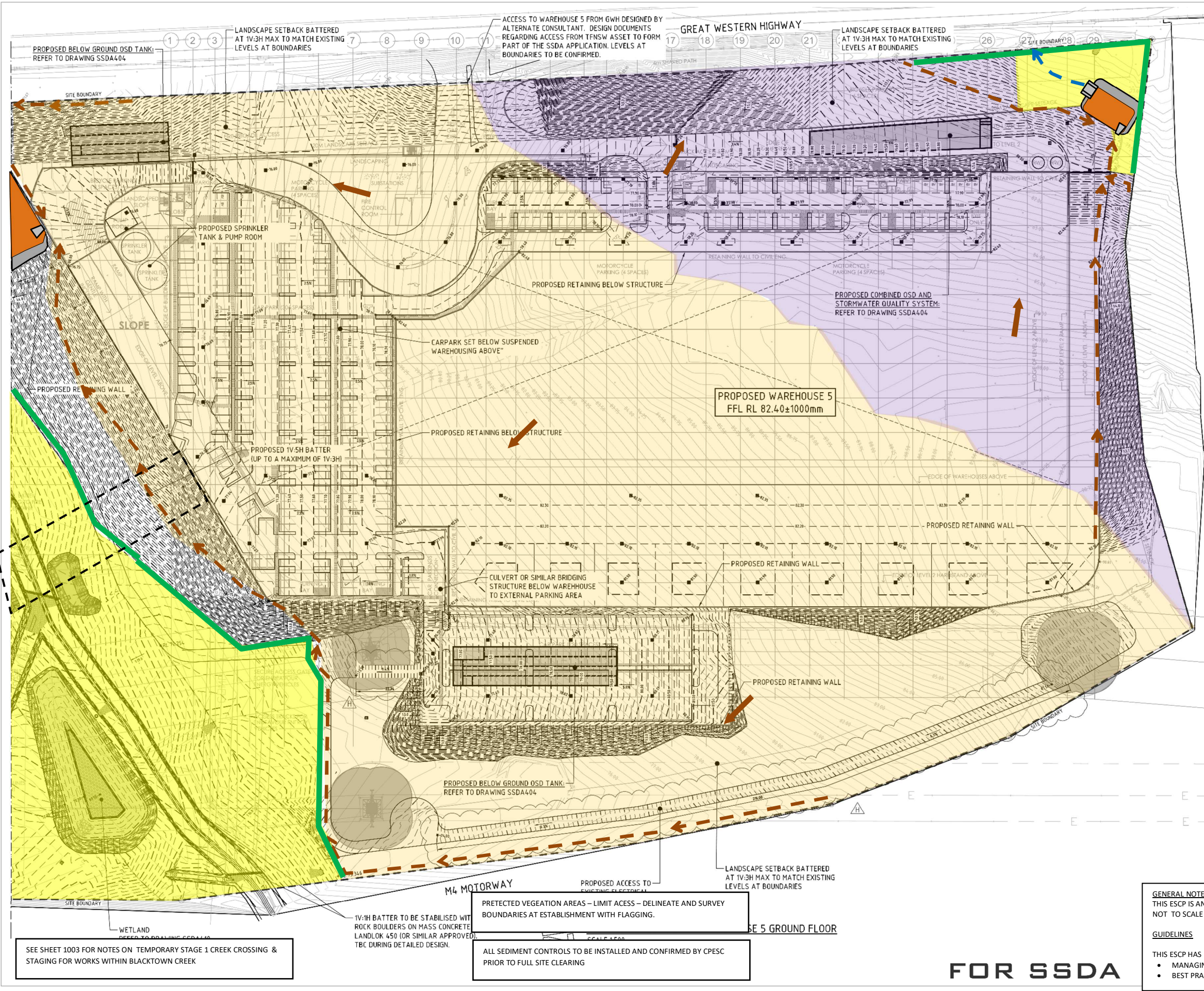
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5. GENERAL ARRANGEMENT – SHEET 1004

6. NOTES AND DETAILS TO ESC – SHEETS 0001-0002

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CONFIRM OFFSITE CATCHMENTS ARE DIVERTED AT BOUNDARY AND THROUGH OR AROUND THE SITE

PUSH DIVERSIONS AT BOUNDARY AS REQUIRED

- ARRANGEMENT NOT SHOWN ON ESCPS –
- GENERAL PRACTICE POST CLEARING AND AT ALL TIMES DURING EARTH WORKS
- REGULAR DIVERSION DRAINS PER SD 5.5 THROUGH CENTRAL CATCHMENT AREAS TO LIMIT LENGTH OF SLOPE POST CLEARING TO ~80M & <100M.
 - DIVERSIONS TO BE AT GRADE AT <2%
 - DIVERSIONS WHERE REQUIRED LEAD TO BROAD SWALE DRAINS LEADING DOWNHILL – BROAD SWALES CONTROLLED BY SERIES OF CHECK MEASURES – BALLAST/ROCK STRUCTURES PER SD 5.4 – FULL WIDTH OF SWALE
 - PROVIDE CONSTRUCTION CULVERTS FOR CROSSINGS UNDER CONSTRUCTING ACCESS ROADS – SEE CONSTRUCTION ACCESS /VMP

SEE SHEET 1000 FOR BASIN SCHEDULE

SEE SHEET 0001 FOR BASIN SIZING NOTES

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NOTES TO SOIL AND WATER MANAGEMENT

ESC STAGING FOR REMEDIATION WORKS

SEDIMENT BASIN AND PRIMARY CONTROLS ARE TO BE INSTALLED AND OPERATIONAL PRIOR TO COMMENCEMENT OF EARTHWORKS

1. UNDERTAKE DEMOLITION WORKS IN ADVANCE OF REMEDIATION/SITE CLEARING WORKS
2. SURVEY AND MARK OUT EXTENT OF PROTECTED VEGETATION AS PER THE VEGETATION MANAGEMENT PLAN (VMP)
3. CONFIRM AND SET OUT ACCESS ROUTES AND LOCATION OF PRIMARY SEDIMENT CONTROLS
4. CONFIRM AND SET OUT DRAINGE MEASURES TO ENGAGE PRIMARY SEDIMENT CONTROLS
5. SET OUT ALIGNMENT AND CONSTRUCT CLEAN WATER DIVERSIONS AT PROJECT BOUNDARY
6. ENSURE DIVERSIONS OUTLET TO STABLE SURFACE OR INTO SEDIMENT CONTROL STRUCTURES
7. PROVIDE CONSTRUCTION CULVERTS OR SIMILAR CROSSINGS WHERE DIVERSIONS INTERCEPT ACCESS
8. INSTALL SEDIMENT FENCES AND OTHER CONTROLS/SITE ACCESS CONTROLS AND WHEEL WASH
9. CONSTRUCT SEDIMENT BASINS AND SURFACE WATER CONTROLS
10. CPESC TO CONFIRM CONTROLS IN ACCORDANCE WITH ESCPS – CONFIRMATION TO APPLICANT IN WRITING

SEPARATION OF WATERS

1. WATER FROM EXTERNAL CATCHMENTS MANAGED BY UPSLOPE DIVERSIONS OR DIRECTED THROUGH PROTECTED CHANNELS
2. ALL SITE WATER DIRECTED TO SEDIMENT CONTROLS

EROSION CONTROL

1. NIL DISTURBANCE OUTSIDE DEFINED LIMIT OF WORKS AREA. LIMIT DISTURBANCE OUTSIDE LIMIT OF SEDIMENT CONTROLS
2. KEEP WORK SURFACES TRACK WALKED AND COMPACTED
3. INSTALL RUBBLE CHECK DAMS IF REQUIRED IN SWALES TO CONTROL EROSION

SEDIMENT CONTROL

1. RETICULARED BERM OF SITE MATERIAL PROVIDES SEDIMENT CONTROLS OR SEDIMENT FENCE FOR SMALLER CATCHMENTS
2. SEDIMENT FENCE SET OUTSIDE LOWER SEDIMENT CONTROL BERMS
3. STABLE SITE ENTRANCE AT ACCESS POINTS
4. STREET SWEEPER TO BE USED AS REQUIRED TO CLEAR SEDIMENT FROM ROAD WAYS LEADING FROM THE SITE

DUST CONTROL

1. SEE ALSO PROJECT AQMP FOR MITIGATION MEASURES
2. EXPOSED SURFACES ARE TO BE MAINTAINED ROLLED AND SMOOTHED
3. MAINTAIN ACCESS TO ALL AREAS THROUGH EFFECTIVE HOUSEKEEPING AND MATERIALS MANAGEMENT
4. DUST TO BE CONTROLLED WITH WATER CART OR APPLICATION OF POLYMER OVER AREAS NOT TO BE DISTURBED FOR >20DAYS
5. SEE GENERAL MANAGEMENT OF STOCKPILES

GENERAL STOCKPILES

6. STOCKPILE MATERIALS ONLY AT DESIGNATED STOCKPILE AREAS – TBC ON SITE SHAPE AND SMOOTH STOCKPILES AS FORMED
7. CONTAMINATED MATERIALS STOCKPILES /NON SUITABLE OR WASTE TO BE LOCATED ONLY WITHIN DESIGNATED AREAS AND MANAGED IN ACCORDANCE WITH THE CEMP
8. STABILISE STOCKPILES NOT WORKED FOR >20 DAYS
9. USE WATER CART FOR DUST SUPPRESSION
10. STABILISE STOCKPILES AND OTHER FORMATIONS NOT DISTURBED FOR MORE THAN 20DAYS
11. STABILISATION TO BE ACHIEVED WITH APPLICATION OF SUITABLE POLYMER PER SUPPLIER SPECICATONS AND CONFIREMD BY CPESC

GENERAL SITE MANAGEMENT

1. ALL SITE CHEMICALS FUELS AND OTHER PRODUCTS TO BE MANAGED AND STORED IN ACCORDANCE WITH THE CEMP
2. NO UN-ATTENDED FUEL CONTAINERS TO BE LEFT ON SITE
3. CONCRETE WASH OUT AND WASTE MANAGEMENT AT DESIGNATED MANAGEMENT AREAS ONLY
4. SITE WASTE TO BE MANAGED IN ACCORDANCE WITH CEMP – SEPARATE BINS AND SKIPS TO BE PROVIDED
5. ALL INCIDENTS TO BE MANAGED AND REPORTED IN ACCORDANCE WITH THE CEMP AND IMMEDIATELY NOTIFIED TO THE CONSTRUCTION SUPERINTENDENT.

SHUTDOWN PROCEDURE IN PREPARATION OF RAIN EVENTS >50% CHANCE OF >10MM

1. CONFIRM SITE ACESS IS CLEAN OF SEDIMENT AND STABLE
2. OBSERVE AND RECORD CAPACITY WITHIN BASINS TO HAVE CAPACITY RETURNED WITHIN 5 DAYS OF CESATION OF RAIN EVENT
3. INSPECT SEDIMENT CONTROLS/SURFACE WATER DIVERSIONS AND CONFIRM THEY ARE CORRECTLY INSTALLED AND MAINTAINED
4. ENSURE THAT OUTLET CONTROLS ARE STABLE
5. INSPECT PRIMARY INTERNAL ACCESS ROUTES AND CONFIRM THEY ARE SHAPPED AND ROLLED TO FREE DRAIN

MONITORING AND REVIEW

1. APPROXIMATE LOCATION OF CONTROLS ONLY – LOCATION TO BE CONFIRMED BY SITE PERSONNEL
2. THIS ESCP IS AN ACTIVE DOCUMENT REVIEW AND AMEND AS REQUIRED
3. NOTE STAGE UPDATES TO SEIGNIFICANT AMMENDMENTS TO ESCP TO BE PREPARED BY OR REVIEWED AND SIGNED OFF BY CPESC
4. UPDATED PLANS TO BE SUBMITTED TO THE PLANNING SECRETARY PER THE CONDITIONS OF APPROVAL – SEE COMPLIANCE NOTES THIS SHEET
5. CONTROLS TO BE INSPECTED AS PART OF REGULAR SITE ENVIRONMENTAL INSPECTIONS AND REPORTING AND MAINTAINED AS REQUIRED
6. CPESC IS TO INSPECT THE SITE AT LEAST MONTHLY AND CNFRM CONTROLS ARE IN PLACE PER THE CURRENT ESCP/ REQUIREMNTS OF CONDTION OF CONSENTAND PROVIDE REPORT TO CLIENT CONFIRMING COMPLIANCE
7. CPESC IS TO ADVISE WHEN THE EROSION AND SEDIMENT COTNROL PLAN IS TO BE UPDATED
8. ADDITIONAL INSPECTIONS OF CONTROLS TO BE CARRIED OUT PRIOR AND FOLLOWING EXTENDED SHUT DOWN & FOLLOWING RAINFALLS EVENT >10MM

CONSTRUCTION SITE DEWATERING ACTIVITIES

- FOR DEWATERING OF SEDIMENTATION CONTROLS, EXCAVATIONS, CULVERT AND DRAINAGE CONSTRUCTIONS & LOW ROAD FORMATIONS. FIRST FLUSH CONCRETE BATCHING WATER NOT TO BE PUMPED TO SEDIMENT BASINS FOR TREATMENT
- **FIRST ASSESS OPPORTUNITIES FOR RE USE OF SITE (E.G. FOR COMPACTION, DUST SUPPRESSION)**
- WATER QUALITY SAMPLING AND TESTING REQUIRES SAMPLE COLLECTION AND LABORATORY TESTING OR, ONCE AN APPROVED STATISTICAL CORRELATION HAS BEEN CONFIRMED; INSITU FIELD ASSESSMENT. FIELD ASSESSMENT CAN BE WITH CALIBRATED COMPARISON SAMPLES, TURBIDITY TUBES, AND PORTABLE PROBE ANALYSIS.
- ALL PERSONS UNDERTAKING TESTING WILL BE TRAINED IN CORRECT METHODOLOGY AND USED OF EQUIPMENT

WATER QUALITY TREATMENT PRIOR TO DISCHARGE

1. TREAT WITH FINE GYPSUM AT AN INITIAL RATE OF ~30-50KG/100M3 OF DETAINED WATER (OR OTHER APPROVED FLOCCULENT) – SEE FIGURE BELOW.
2. PH ADJUSTMENT USING A BASE SUCH AS HYDRATED LIME (FOR ACIDIC WATERS) AND INVERSELY AN ACID SUCH AS HYDROCHLORIC ACID (FOR ALKALINE WATERS).
3. TEST AND REPEAT REQUIRED TREATMENTS WQ NOMINATED WITHIN PROJECT ENVIRONMENT PROTECTION LICENSE (EPL) OR OTHERWISE:
 - TOTAL SUSPENDED SOLIDS 50MG/L
 - PH 6.5 – 8.5
 - NO VISIBLE OIL AN GREASE

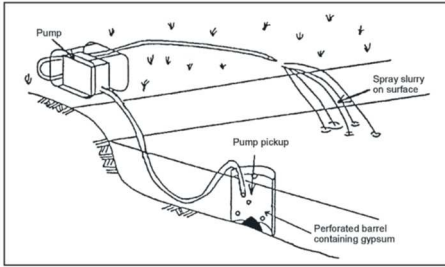


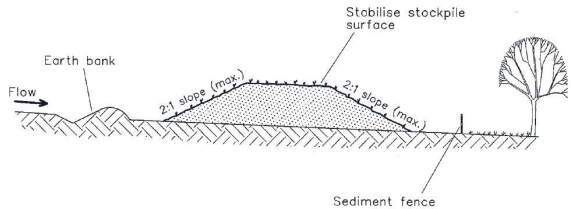
Figure E1. Application of gypsum

CONSIDERATIONS DURING DEWATERING

ALL DEWATERING ACTIVITIES WILL BE INSPECTED AND MONITORED BY INDUCTED AND COMPETENT PERSONNEL. PRIOR TO DEWATERING ACTIVITY THE INTAKE AND OUTLET, PUMP, AND DISCHARGE LOCATION WILL BE INSPECTED. DEWATERING ACTIVITIES WILL BE DIRECTLY SUPERVISED FOR THE ENTIRE DURATION. AVOID PUMP INLET FALLING TO THE LEVEL OF DEPOSITED SEDIMENT, OUTLET TO STABLE SURFACE AND NOT CAUSE SCOUR OR FURTHER EROSION TO RECEIVING LOCATION

RECORD KEEPING

RECORDS MUST BE KEPT ONSITE OF ALL SAMPLES/TESTING ACTIVITIES. RECORDS MUST BE KEPT ONSITE OF ALL DISCHARGES. DISCHARGE WATER QUALITY CHECKLIST WITHIN CEMP IF USED

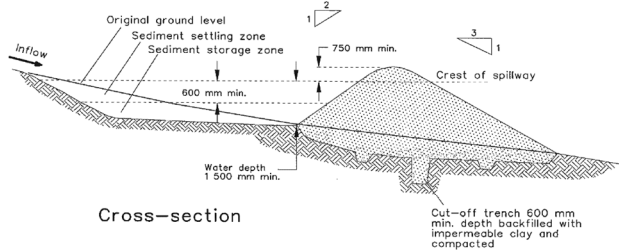
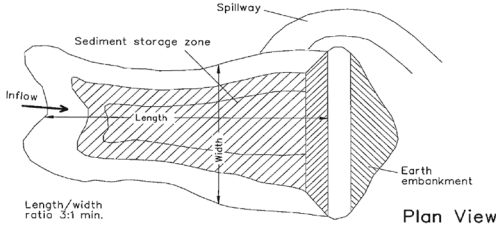


Construction Notes

1. Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
2. Construct on the contour as low, flat, elongated mounds.
3. Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
4. Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
5. Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

STOCKPILES

SD 4-1



Construction Notes

1. Remove all vegetation and topsoil from under the dam wall and from within the storage area.
2. Construct a cut-off trench 500 mm deep and 1,200 mm wide along the centreline of the embankment extending to a point on the gully wall level with the riser crest.
3. Maintain the trench free of water and recompact the materials with equipment as specified in the SWMP to 95 per cent Standard Proctor Density.
4. Select fill following the SWMP that is free of roots, wood, rock, large stone or foreign material.
5. Prepare the site under the embankment by ripping to at least 100 mm to help bond compacted fill to the existing substrate.
6. Spread the fill in 100 mm to 150 mm layers and compact it at optimum moisture content following the SWMP.
7. Construct the emergency spillway.
8. Rehabilitate the structure following the SWMP.

EARTH BASIN - WET

(APPLIES TO TYPE D' AND TYPE F' SOILS ONLY)

SD 6-4

COMPLIANCE REQUIREMENTS

REFERENCE IS MADE TO SSD 36138263: EROSION AND SEDIMENT CONTROL.

THE FOLLOWING IS REQUIRED TO BE DEMONSTRATED/MET

CONDITION	RESPONSE
B31. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION OR OTHER SURFACE DISTURBANCE OF THE DEVELOPMENT, THE APPLICANT MUST SUBMIT TO THE PLANNING SECRETARY AN EROSION AND SEDIMENT CONTROL PLAN FOR THE CONSTRUCTION OF THE DEVELOPMENT. THE EROSION AND SEDIMENT CONTROL PLAN MUST FORM PART OF THE CEMP REQUIRED BY CONDITION C2 AND MUST:	
(A) BE PREPARED BY A CERTIFIED PRACTICING EROSION AND SEDIMENT CONTROL PROFESSIONAL (CPESC);	THIS ESCP IS PREPARED BY CARL VINCENT CPESC#2385
(B) DETAIL ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE IMPLEMENTED IN ACCORDANCE WITH THE RELEVANT REQUIREMENTS OF THE MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION - VOLUME 1: BLUE BOOK (LANDCOM, 2004);	THIS ESCP SET
(C) DETAIL ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE IMPLEMENTED ON THE SITE DURING THE CONSTRUCTION OF THE DEVELOPMENT TO PROTECT THE BLACKTOWN CREEK RIPARIAN CORRIDOR; AND	SEE SHEETS 1003 AND 1004
(D) INCLUDE A PROCEDURE TO PROGRESSIVELY UPDATE THE EROSION AND SEDIMENT CONTROL PLAN TO REFLECT ONGOING EROSION AND SEDIMENT CONTROL MEASURES	THIS SHEET 0001
B32. THE APPLICANT MUST:	
(A) NOT COMMENCE CONSTRUCTION UNTIL THE EROSION AND SEDIMENT CONTROL PLAN REQUIRED BY CONDITION B31 IS SUBMITTED TO THE PLANNING SECRETARY;	NOTED
(B) HAVE ANY UPDATED REVISIONS OF THE EROSION AND SEDIMENT CONTROL PLAN REVIEWED AND ENDORSED BY A CPESC;	THIS SHEET 0001
(C) PROVIDE A COPY OF AN UPDATED REVISIONS OF THE EROSION AND SEDIMENT CONTROL PLAN TO THE PLANNING SECRETARY WITHIN SEVEN (7) DAYS AFTER ENDORSEMENT BY THE CPESC;	NOTED SEE PROCEDURE THIS SHEET 0001
D) IMPLEMENT THE MOST RECENT VERSION OF THE EROSION AND SEDIMENT CONTROL PLAN SUBMITTED TO THE PLANNING SECRETARY FOR THE DURATION OF THE DEVELOPMENT; AND	NOTED SEE PROCEDURE THIS SHEET 0001
(E) MAINTAIN THE EROSION AND SEDIMENT CONTROL MEASURES INSTALLED	NOTED SEE PROCEDURE THIS SHEET 0001

ASSESSMENT OF EROSION RISK

SOIL LOSS CALCULATION/RUSLE (REVISED UNIVERSAL SOIL LOSS EQUATION)				
R _i = 2500	K=0.05*	LS = 1.19	C= 1.0	P= 1.3
GIVES: SOIL LOSS AT 195TONNES /HA (EROSION CLASS - LOW)				
STORAGE VOLUME = 150 M3/HA/YR AT 1.3 T/M3				

TYPE D BASIN SIZING CALCULATIONS			
A	STORAGE ZONE M3/HA	2 MONTH STORAGE VOLUME =195/6= 25M3/HA	
B	SETTLING ZONE M3/HA	CV=051	R _i (85%/5 DAY) =32.2MM
		10 X CV X R _i ÷	
TOTAL BASIN VOLUME (A+B)=		190 M3/HA M3/HA	
RECOMMENDED VOLUME AT ~120%		228M3/HA	
ESTIMATED CATCHMENT AREA =		SEE BASIN SCHEDULE SHEETS 1001	
TOTAL BASIN VOLUME		SEE BASIN SCHEDULE SHEETS 1001	
VALUE REFERENCES			
FACTOR		NOTES	
R _i	RAINFALL EROSIVITY	BLUE BOOK APPENDIX B	
K	SOIL ERODABILITY	DEFAULT CONSERVATIVE VALUE FOR GENERAL FILL	
LS	LENGTH SLOPE	80M@5% OR EQUIVALENT – BLUE BOOK APPENDIX A4	
C	COVER	MAXIMUM VALUE FOR ZERO COVER – BLUE BOOK APP A6	
P	EROSION CONTROL PRACTICE	COMPACTED/SMOOTH – BLUE BOOK APPENDIX A5	
Cv	RUNOFF COEFFICIENT	HYDROLOGICAL GROUP C – BLUE BOOK APPENDIX F	
R _i	DESIGN RAINFALL DEPTH X%ILE/5DAY	BLUE BOOK TABLE 6a – VALUE FOR BLACKTOWN	

1.	SEDIMENT BASIN TYPE	TYPE F / D
2.	LENGTH TO WIDTH RATIO	3:1 PREFERRED – USE OF BAFFLES RECOMMENDED
3.	MIN DEPTH SETTLING ZONE	0.6M
4.	INLET CONTROL	PINNED MEDIUM GRADE GEOTEXTILE PER SD 5-7 - EXTEND TO 1M BELOW WETTED AREA INTERNAL FACE
5.	OUTLET CONTROL	PINNED MEDIUM GRADE GEOTEXTILE PER SD 5-7 - EXTEND TO 1M BELOW WETTED AREA INTERNAL FACE. REINFORCE WITH 150MM+ BALLAST AS SCOUR PROTECTION
	CAPACITY OF OUTLET TO BE MIN TO ACCOMMODATE 1:20ARI AS MIN WITH 1:50 ARI PREFERRED SIZING TO BE CONFIRMED AT BASIN CONSTRUCTIONS	
6.	MIN FREEBOARD BETWEEN MAX WATER LEVEL AND TOP OF BASIN WALL	300MM MINIMUM
7.	MIN FREEBOARD BETWEEN SPILLWAY INVERT AND TOP OF BASIN WALL	300MM MINIMUM
8.	MIN EMBANKMENT/DAM WALL CREST WIDTH	2.5M (FOR BASINS WITH COMPACTED FILL WALL)
9.	MAX GRADIENT ACCESS RAMP	6:1 IF REQUIRED FOR MAINTENANCE
10.	MAX GRADIENT INTERNAL BATTERS	2:1 FOR STABLE CLAY MATERIAL OTHERWISE CONFIRM WITH SITE ENGINEER OR GEOTECHNICAL ENGINEER
11.	FLOCCULATION/TREATMENT	GYPSUM AT 30-50KG PER 100M3 OF WATER OR OTHERWISE PER DEWATERING SPECIFICATION

GENERAL NOTES TO EROSION AND SEDIMENT CONTROL
THIS ESCP IS AN ACTIVE DOCUMENT – REVIEW REGULARLY AND UPDATE AS REQUIRED
NOT TO SCALE – REFER TO CLIENT BASE PLANS AND DWGS FOR MEASUREMENTS AND CONSTRUCTION DETAILS

GUIDELINES

THIS ESCP HAS BEEN PREPARED TO BE IN ACCORDANCE WITH THE FOLLOWING BEST MANAGEMENT GUIDANCE DOCUMENTS.

- MANAGING URBAN STORMWATER – VOLUME 1 (LANDCOM 2004) (THE BLUE BOOK) AND VOLUMES 2 WHERE RELEVANT
- BEST PRACTICE EROSION AND SEDIMENT CONTROL (IECA 2008).



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E. info@ersed.com.au

PLAN PREPARED BY

C VINCENT (CPESC # 2385)

REV	DATE	DWN	DETAILS
0	29/01/25	CV	FOR REVIEW

SHEETS IN THIS PLAN SET

1. KEY TO PESCPs / SURVEY & CATCHMENT SCHEDULE SHEET 1000
2. GENERAL ARRANGEMENT – SHEET 1001
3. GENERAL ARRANGEMENT – SHEET 1002
4. GENERAL ARRANGEMENT – SHEET 1003
5. GENERAL ARRANGEMENT – SHEET 1004
6. NOTES AND DETAILS TO ESCP – SHEETS 0001-0002

CLIENT BASE PLAN: NA

CLIENT

MODALUS

PROGRESSIVE EROSION AND SEDIMENT CONTROL PLAN

DRAWN

CV

SSD 36138263
HUNTINGON LOGISTICS ESTATE –
NOTES AND DETAILS TO EROSION AND SEDIMENT CONTROL

CREATED

JAN 2025

-

25002

ESC

EW

0001

0

29/01/25

SHEET

ERSED REF

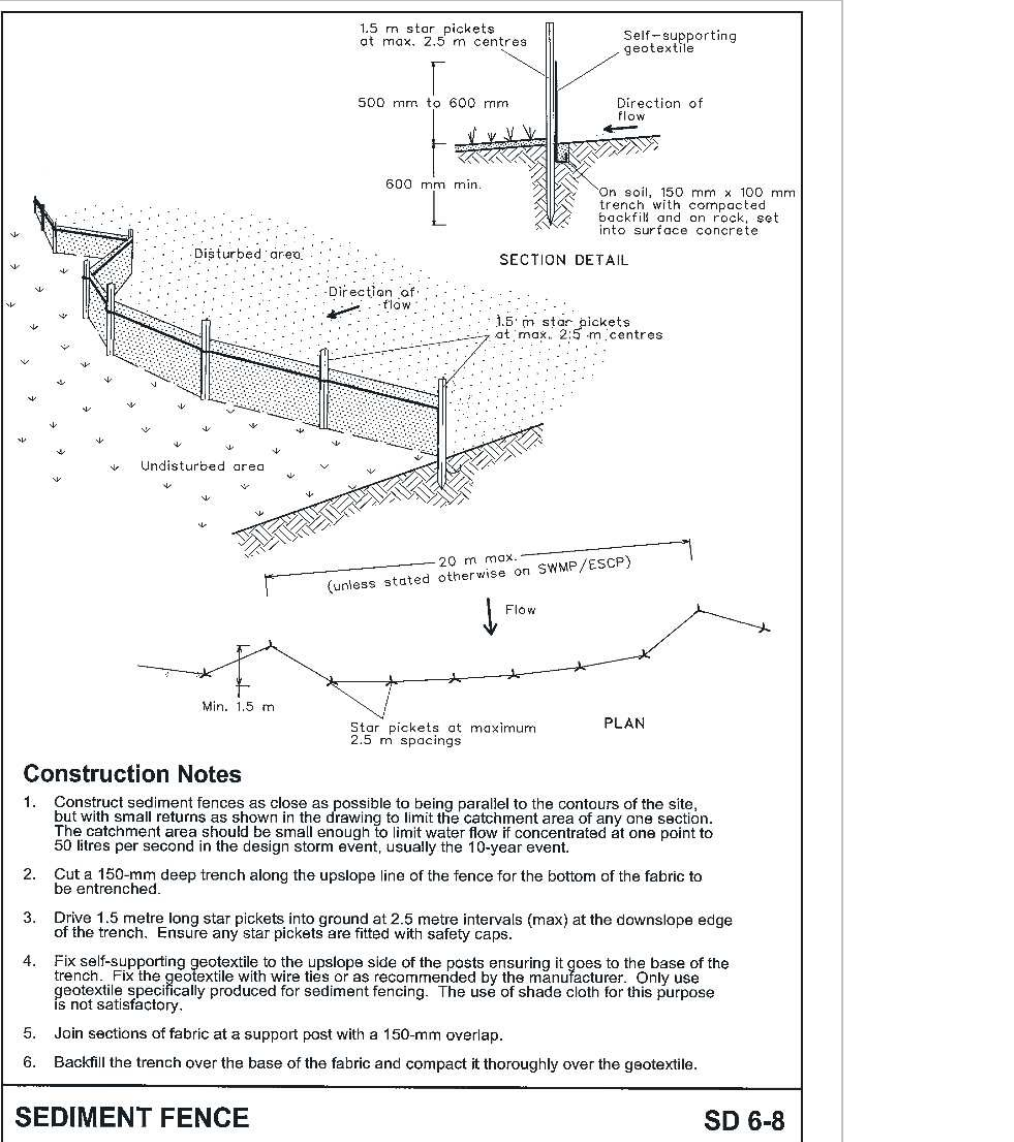
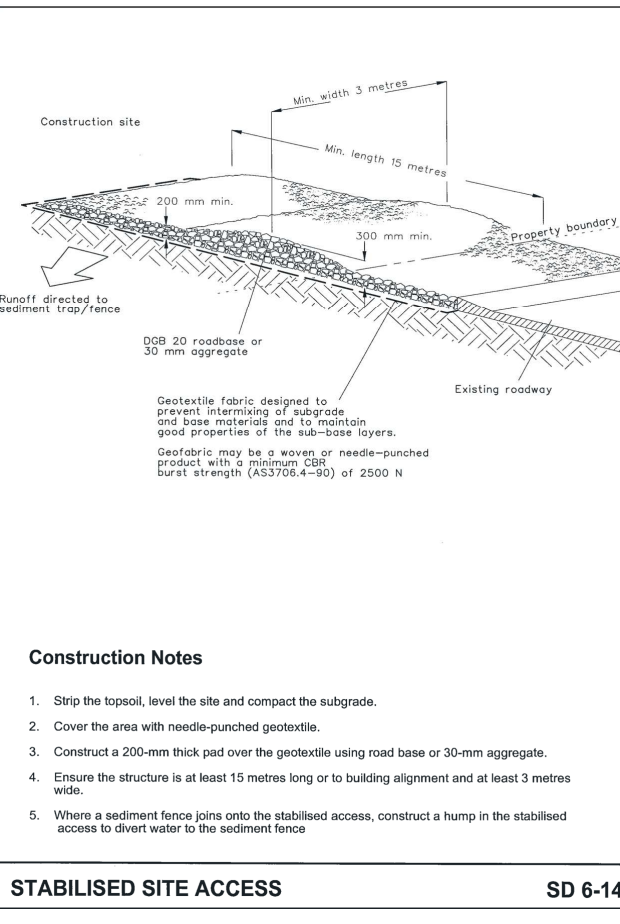
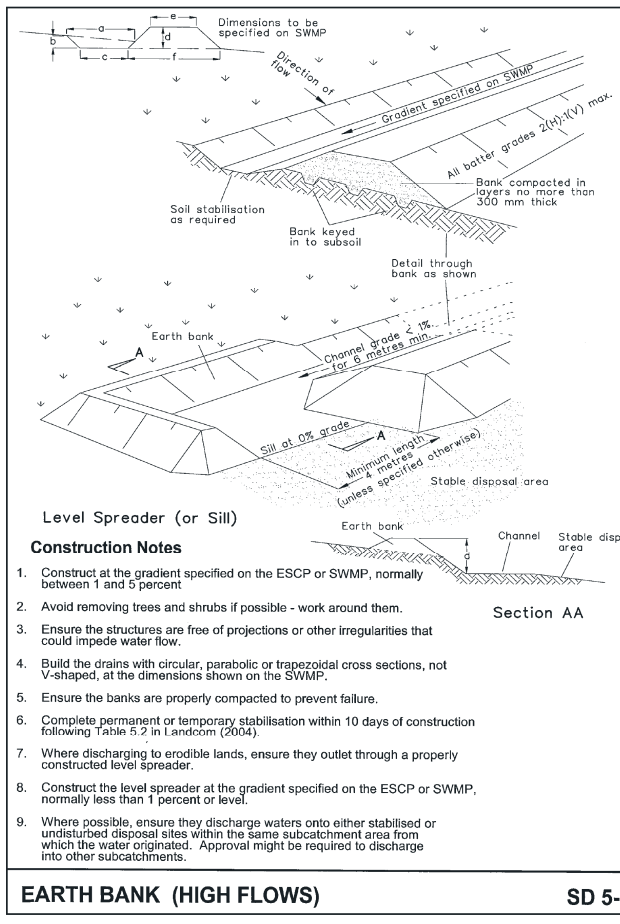
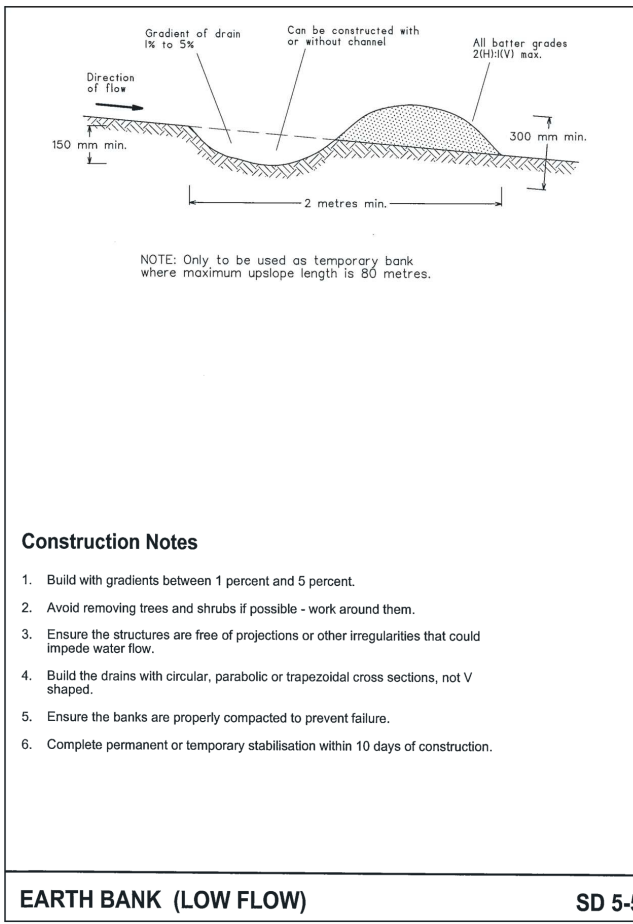
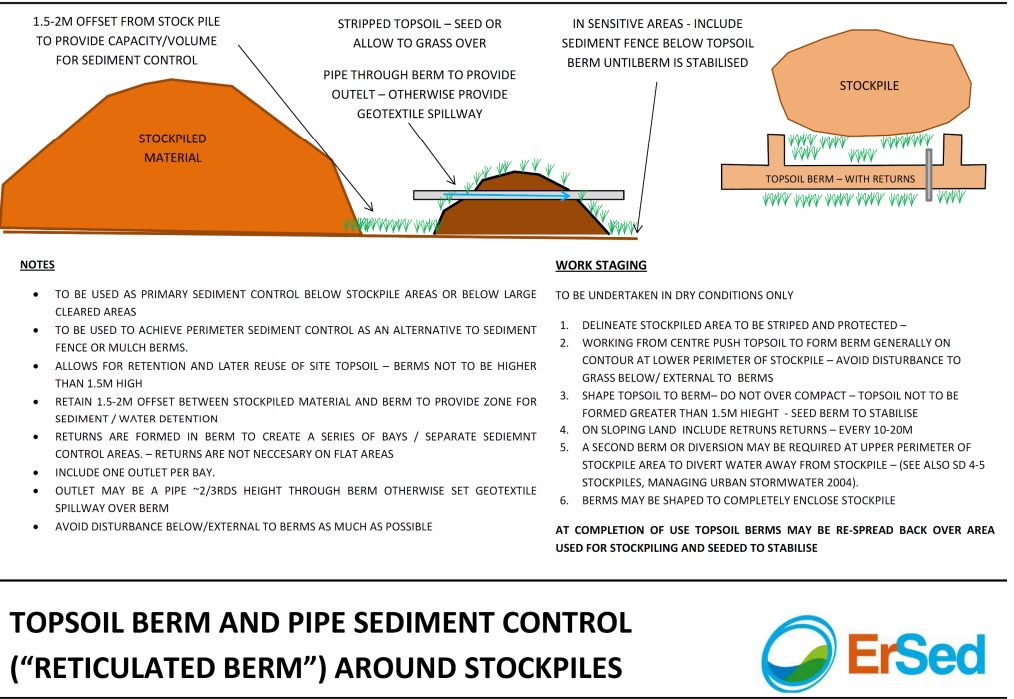
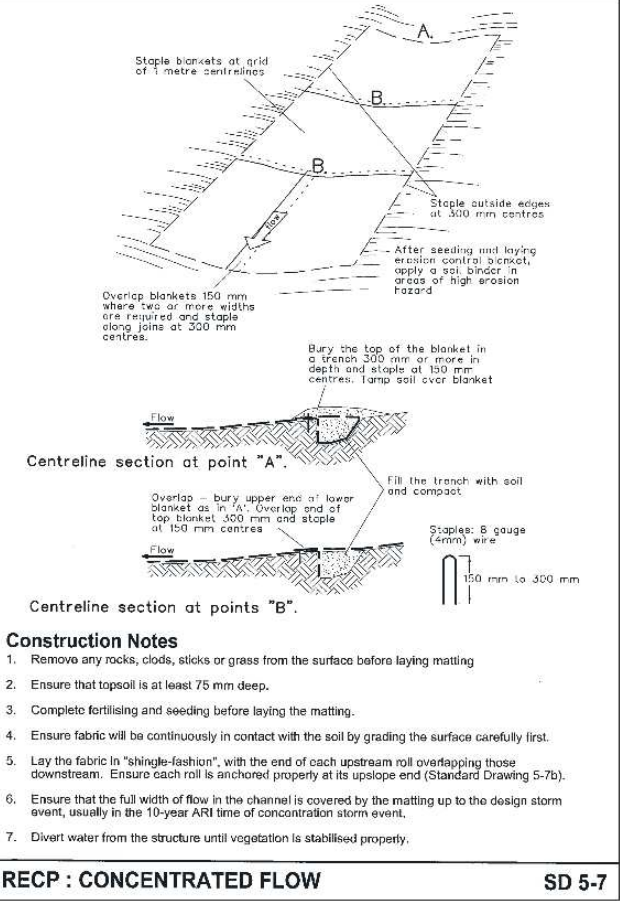
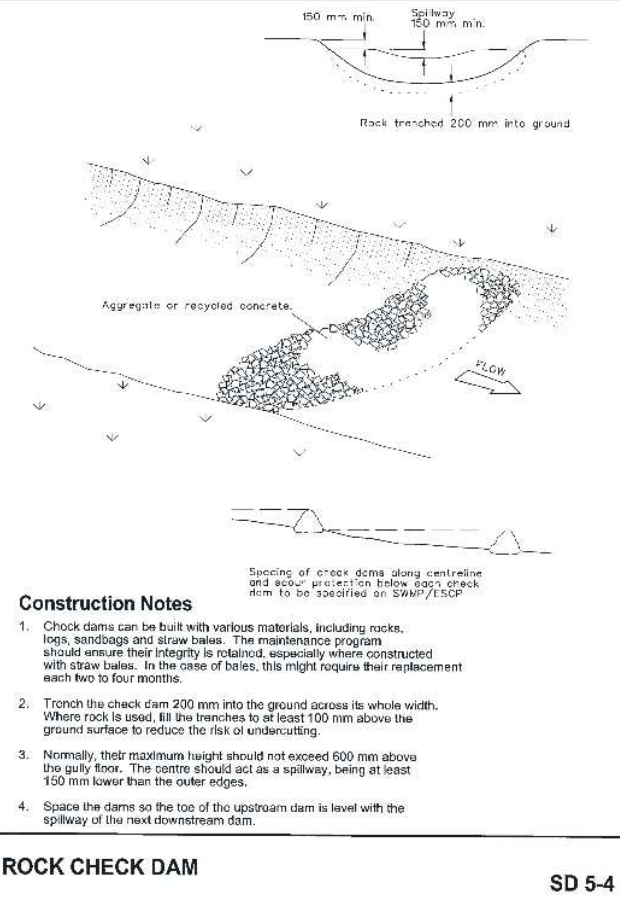
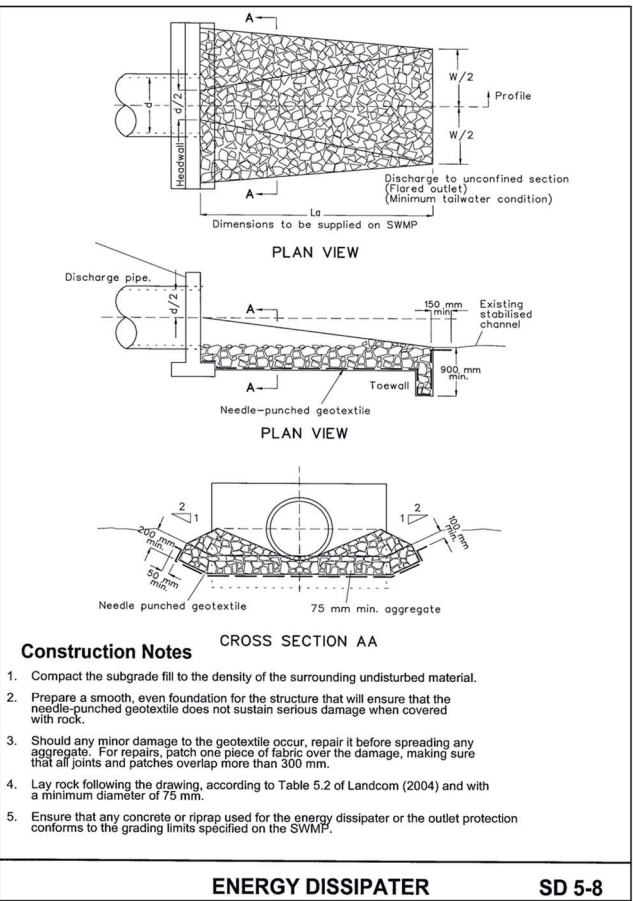
PLAN

PREFIX

SHEET

AMDT

DATE



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5.	GENERAL ARRANGEMENT – SHEET 1004
6.	NOTES AND DETAILS TO ESCP – SHEETS 0001-0002
CLIENT BASE PLAN: C013904.03-SSDA504-REV H	

CLIENT	MODALUS	PROGRESSIVE EROSION AND SEDIMENT CONTROL PLAN				
DRAWN	CV	SSD 36138263 HUNTINGON LOGISTICS ESTATE – GENERAL ARRANGMENT SHEET STAGE 1				
CREATED	JAN 2025					
-	25002	ESC	EW	0002	0	29/01/25
SHEET	ERSED REF	PLAN	PREFIX	SHEET	AMDT	DATE