

04 October 2022

Project No. 220037

Amir Maglajlic
HUTCHISON BUILDERS
23 DUNNING AVE, ROSEBERY NSW 2018 NSW

Dear: Luke,

**Re: GREEN SQUARE INTEGRATED COMMUNITY FACILITY AND SCHOOL
CERTIFICATE OF DESIGN - CIVIL**

SUBJECT PREMISES *Lot 2 of Deposited Plan 1174641 / 3 Joynton Avenue,
Zetland*

DEVELOPMENT APPLICATION **SSD 10381 (D/2021/1245)**

Pursuant to the provisions of **Clause A2.2 of the Building Code of Australia**, I hereby certify that the proposed civil design and documentation of the building development is generally in accordance with the following codes:

- **Condition B30 – Erosion and Sediment Control**
- **Managing Urban Stormwater: Soils and Construction (Landcom, 2004)**
- **Civil Drawings Provided:**
 - **ACE-CI-80-00-15 – EROSION AND SEDIMENT CONTROL PLAN - REV A**
 - **ACE-CI-80-00-16 – EROSION AND SEDIMENT CONTROL DETAILS - REV A**

Should you have any queries in relation to the above, do not hesitate to contact the undersigned.

I am an appropriately qualified and competent person in this area being listed in the National Professional Engineers Register (NPER) and as such can certify that the design and performance of the design systems would comply with the above.

I possess Indemnity Insurance to the satisfaction of the building owner or my principal.

Full Name of Designer:	Chris White
Qualifications:	B.Eng
Full Name of Reviewer:	Chris White
Qualifications:	B.Eng, MIEAust, CPEng, NER
Address of Reviewer:	Level 10, 620 Bourke Street, Melbourne, Victoria 3000
Business Telephone No:	03 8600 9700
Name of Employer:	Adams Consulting Engineers Pty Ltd

Email: admin@adamseng.com.au

Yours faithfully,

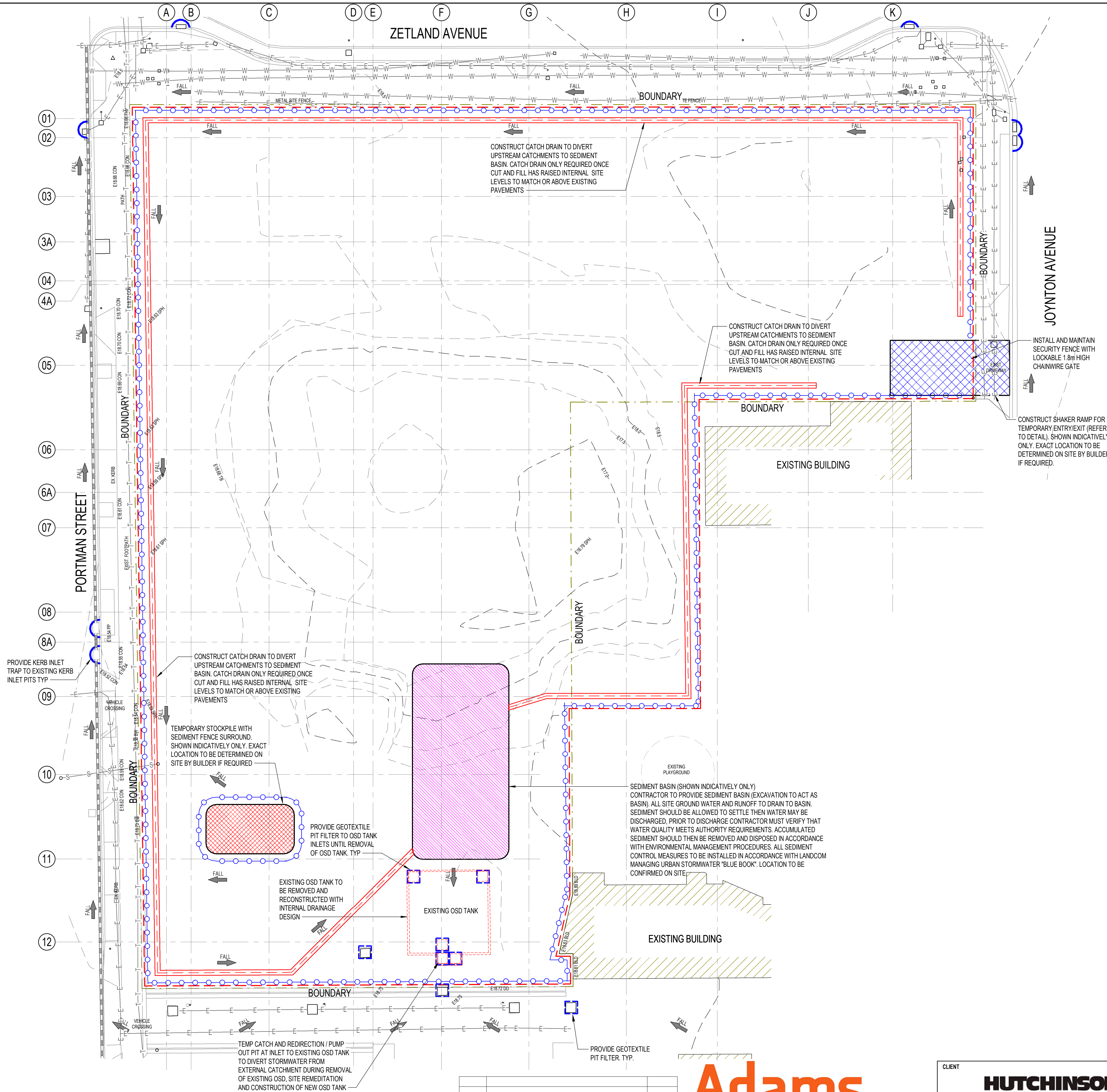


Chris White

Associate Director – Civil Engineering

We are proudly ISO 9001 Quality Management Systems Certified

04 October 2022



EROSION AND SEDIMENT CONTROL PLAN
SCALE 1:200

SOIL AND WATER MANAGEMENT NOTES

- IT HAS BEEN ASSUMED THAT HOARDING/SILT FENCING WILL BE PROVIDED TO THE STAGE BOUNDARY SUFFICIENT TO PREVENT SEDIMENT RUNOFF FROM LEAVING SITE (EXCEPT IN THE CASE OF ENTRY/EXIT LOCATIONS WHERE TEMPORARY CONSTRUCTION ENTRY/EXIT SEDIMENT TRAP ARE PROVIDED). IF THIS IS NOT THE CASE, PROVIDE SEDIMENT FENCE TO STANDARD DETAIL BELOW AS REQUIRED TO PREVENT SEDIMENT FROM LEAVING SITE. DIRECT RUNOFF TO SEDIMENT BASIN.
- ALL SEDIMENT CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH LANDCOM MANAGING URBAN STORMWATER "BLUE BOOK", THE GUIDELINES FOR EROSION AND SEDIMENT CONTROL ON BUILDING SITES (CITY OF SYDNEY, 2004) AND THE NSW PROTECTION OF THE ENVIRONMENT OPERATIONS ACT 1997.

SEDIMENT CONTROL CONDITIONS

- SEDIMENT FENCES WILL BE INSTALLED AS SHOWN AND ELSEWHERE AT THE DISCRETION OF THE SITE MANAGER TO CONTAIN COARSER SEDIMENT FRACTIONS INCLUDING AGGREGATED FINES AS NEAR AS POSSIBLE TO THEIR SOURCE.
- SEDIMENT REMOVED FROM ANY TRAPPING DEVICE WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS CANNOT OCCUR.
- STOCKPILES WILL BE PLACED WHERE SHOWN ON DRAWING OR ELSEWHERE AT THE DISCRETION OF THE SITE MANAGER AND NOT WITHIN 5m OF HAZARD AREA INCLUDING LIKELY AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS AND DRIVEWAYS.
- WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM WITH INLET FILTERS (SEE DETAILS) UNLESS IT IS SEDIMENT FREE.
- TEMPORARY SEDIMENT TRAPS WILL BE RETAINED UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.
- CONTRACTOR TO DESIGN/CONSTRUCT TEMPORARY SEDIMENT BASIN. WATER SHOULD BE ALLOWED TO SETTLE BEFORE DISCHARGE. CONTRACTOR MUST VERIFY THAT WATER QUALITY MEETS AUTHORITIES REQUIREMENTS PRIOR TO DISCHARGE. ACCUMULATED SEDIMENT SHOULD THEN BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ENVIRONMENTAL MANAGEMENT PROCEDURES.
- TIMING OF SEDIMENT AND EROSION CONTROL WORKS TO COMMENCE OCTOBER 2022.
- WHOLE SITE TO BE SUBJECT TO WORKS.
- REFER TO CUT / FILL PLAN FOR EXTENT OF BULK EARTHWORKS INCLUDING REMEDIATION REQUIREMENTS.

SEDIMENT CONTROL CONDITIONS

SITE MANAGER WILL INSPECT THE SITE AT LEAST WEEKLY AND WILL:

- ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY NECESSARY REPAIRS.
- REMOVE SPILLED SAND OR OTHER MATERIAL FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 5m FROM AREAS OF LIKELY CONCENTRATED OF HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS AND PAVED AREAS.
- REMOVE TRAPPED SEDIMENT WHENEVER LESS THAN DESIGN CAPACITY REMAINS WITHIN THE STRUCTURE OR REPAIR AS APPROPRIATE.
- ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED EROSION HAZARD AND TO INITIATE UPGRADING OR REPAIR AS APPROPRIATE.
- CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS.
- MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.
- REMOVE TEMPORARY SOIL CONSERVATION STRUCTURES AS THE LAST ACTIVITY IN THE REHABILITATION PROGRAM.

AS PART OF THE STATUTORY 'DILIGENCE OF CARE' RESPONSIBILITIES, THE SITE MANAGER WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL ENTRIES WILL INCLUDE:

- THE VOLUME AND INTENSITY OF ANY RAINFALL EVENTS.
- THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS.
- THE CONDITION OF VEGETATION AND ANY NEED TO IRRIGATE.
- THE NEED FOR DUST PREVENTION STRATEGIES
- ANY REMEDIAL WORKS TO BE UNDERTAKEN.

THE BOOK WILL BE KEPT ONSITE AND MADE AVAILABLE TO ANY AUTHORISED PERSON ON REQUEST. IT WILL BE GIVEN TO PROJECT MANAGER AT THE CONCLUSION OF WORKS.

DISCHARGE OF CONTAMINATED GROUND WATER

CONTAMINATED GROUNDWATER SHALL NOT BE DISCHARGED INTO THE CITY'S STORMWATER DRAINAGE SYSTEM. OPTIONS FOR THE DISPOSAL OF GROUNDWATER INCLUDE DISPOSAL TO SEWER WITH PRIOR APPROVAL FROM SYDNEY WATER OR OFF-SITE DISPOSAL BY A LIQUID WASTE TRANSPORTER FOR THE TREATMENT/DISPOSAL TO AN APPROPRIATE WASTE TREATMENT/PROCESSING FACILITY.

ENVIRONMENTAL MANAGEMENT PLAN

PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION AND REMEDIAL WORKS AN ENVIRONMENTAL MANAGEMENT PLAN (EMP) MUST BE PREPARED FOR THE SITE AND SUBMITTED TO THE COUNCIL'S AREA PLANNING MANAGER FOR WRITTEN APPROVAL PRIOR TO THE COMMENCEMENT OF WORK. THE EMP MUST CONSIDER ALL POTENTIAL ENVIRONMENTAL IMPACTS FROM THE APPROVED WORKS INCLUDING, BUT NOT LIMITED TO SEDIMENTATION CONTROL, CONTAMINATION CONTAINMENT, STOCKPILES, NOISE AND VIBRATION, COLOURS AND DUST EMISSIONS. ALL WORKS MUST BE UNDERTAKEN ONSITE IN ACCORDANCE WITH THE APPROVED ENVIRONMENTAL MANAGEMENT PLAN.

NOTE:
ALL EXISTING PROPERTY SERVICES LOCATIONS AND DEPTHS ARE APPROXIMATE ONLY AND MUST BE VERIFIED ON SITE. THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS WHICH MAY AFFECT THESE SERVICES.

LEGEND

- DENOTES PROPOSED SITE BOUNDARY.
- DENOTES PROPOSED SECURITY FENCE.
- DENOTES PROPOSED SEDIMENT FENCE. REFER TO DETAIL ON DRAWING C016
- DENOTES PROPOSED CATCH DRAIN REFER TO DETAIL ON DRAWING C016
- DENOTES MESH AND GRAVEL INLET FILTER REFER TO DETAIL ON DRAWING C016
- DENOTES MESH AND GRAVEL INLET FILTER REFER TO DETAIL ON DRAWING C016
- DENOTES SEDIMENTATION BASIN
- DENOTES VEHICLE SHAKEDOWN DEVICE
- DENOTES SITE STOCKPILE
- DENOTES OVERLAND FLOW PATH



DIAL 1100
DIAL BEFORE YOU DIG
CONTRACTOR TO CONFIRM LOCATION OF EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS

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CLIENT
HUTCHINSON BUILDERS
Established 1912

ARCHITECT
BVN

TITLE
EROSION AND SEDIMENT CONTROL PLAN

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Project Leader	MW	Certified	-	
Project Director	MW	Sheet Size	A1	
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APPROVAL ISSUE		
Project	Drawing	Revision
220037	ACE-CI-80-00-15 A	

ISSUE	REVISION	DATE
A	ISSUED FOR APPROVAL	04/10/22



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- This diagram illustrates a cross-section of a kerb-side inlet. A rectangular structure is shown with a 'KERB-SIDE INLET' at the top. Below the inlet, a 'TIMBER SPACER TO SUIT' is positioned. A 'GRAVEL-FILLED WIRE MESH OR GEOTEXTILE 'SAUSAGE'' is shown as a curved, elongated structure that traps sediment. An arrow points to the 'TIMBER SPACER TO SUIT' and another points to the 'GRAVEL-FILLED WIRE MESH OR GEOTEXTILE 'SAUSAGE''. Below the main structure, a separate section shows an 'OVERFLOW' area with a 'WIRE MESH 'SAUSAGE'' and a 'FILTERED WATER' outlet.

MESH AND GRAVEL INLET FILTER DETAIL

- ## SEDIMENT FENCE DETAIL

-
- 1m MAX
- STAR PICKETS
- DROP INLET WITH GRATE
- WIRE OR STEEL MESH
(14 GAUGE x 150mm OPENINGS)
WHERE GEOTEXTILE IS NOT
SELF-SUPPORTING
- WOVEN GEOTEXTILE



- ### STOCKPILE DETAIL

CONSTRUCTION NOTES

1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) 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 2m 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 5-9) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.



NOTE:
ONLY TO BE USED AS TEMPORARY BANK
WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.

- CONSTRUCTION NOTES**
1. BUILD WITH GRADIENTS BETWEEN 1 AND 5 PERCENT.
 2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
 3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPED WATER FLOW.
 4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V SHAPED.
 5. ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
 6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.



- #### CONSTRUCTION NOTES
1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
 2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
 3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE or 30mm AGGREGATE.
 4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
 5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.



- CONSTRUCTION NOTES**
1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUB-GRADE.
 2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
 3. CONSTRUCT A 200mm THICK PAD OVER GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE. AGGREGATE SIZE NOT TO EXCEED 75mm.
 4. ENSURE THE STRUCTURE IS AT LEAST 15m LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3m WIDE.
 5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO SEDIMENT FENCE.

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EROSION AND SEDIMENT CONTROL DETAILS

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