


**SEDIMENT AND EROSION LEGEND**

- + — DENOTES SEDIMENT FILTER FENCE
- - - DENOTES SITE SECURITY FENCE
- - - DENOTES MESH AND GRAVEL FILTER ROLL
- DENOTES GEOTEXTILE FILTER DROP INLET / SEDIMENT TRAP
- DENOTES STABILISED SITE ACCESS / GRID
- DENOTES SITE STOCKPILE

**NOTES**

- ALL SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED IN ACCORDANCE WITH THE 'BLUE BOOK' MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION.
- SEDIMENT AND EROSION CONTROL MEASURES SHOWN ARE CONCEPT ONLY

 **NSW GOVERNMENT**  
Planning

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. .... SSD 6387 .....

granted on the..... 1/12/14 .....

Signed..... [Signature] .....

Sheet No. .... 53 ..... of ..... 63 .....


VERIFIER:

JOB MANAGER: M. RICHARDS

DESIGNED: S. NAUMOSKI


DRAWN: R. GRIEVE

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
1	ISSUED FOR DA APPROVAL	RG		SN	07.02.14
2	RE-ISSUED FOR DA APPROVAL	UM		RH	05.09.14



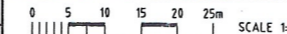
DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

ARCHITECT

 **RICE DAUBNEY**

THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE

 SCALE 1:500



Sydney

Level 11, 345 George Street, Sydney NSW 2000  
Ph (02) 9241 4188 Fax (02) 9241 4324  
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT  
SOPA WENTWORTH POINT

DRAWING TITLE  
CIVIL DESIGN  
CONCEPT SEDIMENT AND EROSION CONTROL PLAN

JOB NUMBER  
130648

DRAWING NUMBER  
C2.01

REVISION  
2

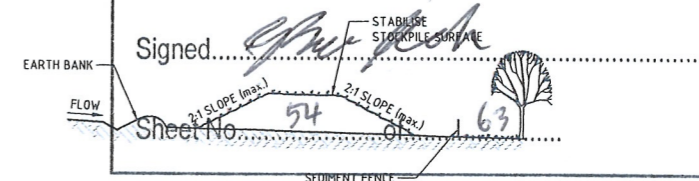
DRAWING SHEET SIZE = A1

**NOT FOR CONSTRUCTION**

Approved Application No. 95D 6387

granted on the 1/12/14

Signed [Signature] STAGS  
STOCKPILE SURFACE



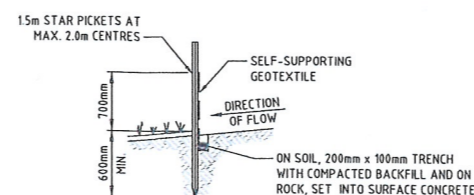
STOCKPILE  
NOT TO SCALE

GEOTEXTILE INLET FILTER  
DROP INLET SEDIMENT TRAP

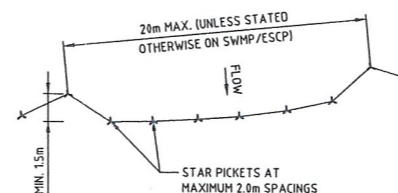
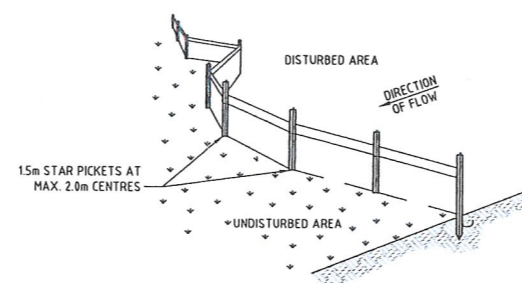
NOT TO SCALE

NOTES:

2. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
3. CUT A 20" DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED
4. DRIVE 1.0m LONG STAR PICKETS INTO GROUND AT THE FOUR CORNERS OF PIT WALLS. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
5. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
6. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
7. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.



SECTION DETAIL



PLAN

SEDIMENT FENCE

[illegible]

## STABILISED SITE ACCESS

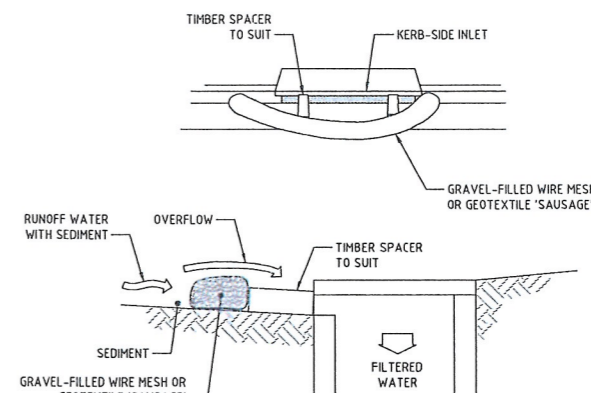
NOT TO SCALE

## MAINTENANCE

- THE TEMPORARY ACCESS SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY.
- THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL GRAVEL AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.
- INSTALL BARRIER ON EITHER SIDE OF SHAKER PAD TO ENSURE VEHICLES ARE GUIDED ON TO THE PAD.
- INVERT OF SHAKER PAD TO BE DRAINED VIA AGRICULTURAL PIPE WRAPPED IN GEOTEXTILE FABRIC.

- NOTES:

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO SOL/S IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 200mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 15m LONG STAR PICKETS INTO GROUND AT 2.0m INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

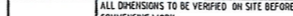

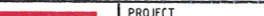
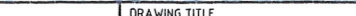


MESH AND GRAVEL INLET FILTER

NOT TO SCALE

NOTES:

1. THIS PRACTICE ONLY TO BE USED WHERE SPECIFIED IN AN APPROVED SWMP/ESCP
2. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
3. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
4. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
5. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100-mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACE BLOCKS.
6. SEAL THE WIRE MESH WITH A 100mm DEEP SEDIMENT BYPASSING THE FILTER.
7. SANDBAGS FILLED WITH GRAVEL CAN BE ALTERNATE FOR THE MESH OR GEOTEXTILE.
8. PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LOADED WATERS CANNOT PASS BETWEEN.

NOT FOR CONSTRUCTION											
REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT			PROJECT	DRAWING TITLE
1	ISSUED FOR DA APPROVAL	RG		SN	07.02.14		   	<p>ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK &amp; WHITE.</p> 	<p>Sydney Level 11, 345 George Street, Sydney NSW 2000 Ph (02) 9241 4188 Fax (02) 9241 4324 sydney@northrop.com.au AUST R1 0961 433 100</p>	SOPA WENTWORTH POINT	CIVIL DESIGN
2	RE-ISSUED FOR DA APPROVAL	UH		RH	05.09.16						
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED.	THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD.			CONCEPT SEDIMENT AND EROSION CONTROL DETAILS	

**NOT FOR CONSTRUCTION**



NSW GOVERNMENT  
Planning

Approved under the Environmental Planning and Assessment Act 1979

Approved Application No. SSD 6987

granted on the 1/12/14

Signed [Signature]

Sheet No. 55 of 63

NEW DISCHARGE POINT TO  
PARRAMATTA RIVER  
ADJACENT TO EXISTING

GROSS POLLUTANT TRAP  
'ROCLA CDS0506' OR  
APPROVED EQUIVALENT.

EXISTING KERB AND LEVELS ALONG BUS  
SHELTER TO BE MAINTAINED. PROPOSED  
WORKS TO MATCH INTO EXISTING

PROPOSED LOT 111  
7484m<sup>2</sup>

MATCH KERB NEATLY  
WITH EXISTING (TYP.)

EXISTING BUS SHELTER  
FORESHORE DRIVE

EXISTING FERRY TERMINAL

FUTURE DEVELOPMENT

REFER SHEET C4.02 FOR CONTINUATION

#### NOTES:

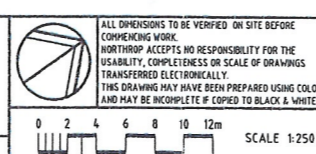
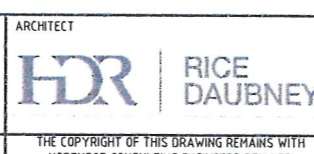
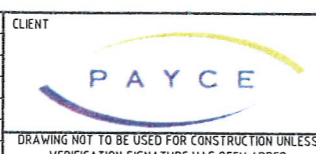
- KO — DENOTES PROPOSED SITE BOUNDARY
- KG — DENOTES PROPOSED KERB ONLY
- DD — DENOTES PROPOSED KERB AND GUTTER
- DD — DENOTES PROPOSED DISH DRAIN
- DD — DENOTES PROPOSED ROAD PAVEMENT
- DD — DENOTES PROPOSED STORMWATER PITS
- DD — DENOTES PROPOSED STORMWATER PIPE
- DD — RAINWATER HARVESTING TANK
- DD — GROSS POLLUTANT TRAP (CDS0506 OR APPROVED EQUIVALENT)

#### NOTES:

- REFER TO DRAWINGS C1.01 FOR DA AND STORMWATER NOTES.
- ROOF AREA TO DRAIN TO PROPOSED RAINWATER TANK. INTERNAL SITE DRAINAGE TO DRAIN VIA STORMWATER TREATMENT TRAIN (GPT AND STORMFILTERS) PRIOR TO LEAVING SITE.
- STORMWATER DRAINAGE AND ROADWORKS ARE TO BE IN ACCORDANCE WITH SOPA POLICY AND GUIDELINES.

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
1	ISSUED FOR DA APPROVAL	RG	SN	07.02.14	
2	RE-ISSUED FOR DA APPROVAL	UM	RH	05.09.14	



PROJECT  
SOPA WENTWORTH POINT

DRAWING TITLE  
CIVIL DESIGN  
ROAD AND CONCEPT  
DRAINAGE LAYOUT -  
SHEET 1

JOB NUMBER  
130648  
DRAWING NUMBER  
C4.01  
REVISION  
2  
DRAWING SHEET SIZE = A1

VERIFIER:

JOB MANAGER: M. RICHARDS

DESIGNED: S. NAUMOSKI

DRAWN: R. GRIEVE

Found: C:\2013\jobs\130648 - sops ferry wharf, wentworth point - mixed use developments-drawings\c4-01\c4-02.dwg

Date: 05-09-14 3:09pm Plotted by: umandl

REFER SHEET C4.01 FOR CONTINUATION

REC'D  
24/10/14

NSW GOVERNMENT  
Planning

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. 550 6387

granted on the 12/11/14

Signed [Signature]

Sheet No. 56 of 63

1. DELETE BUS BAY AND  
REPLACE WITH CAR  
PARKING SPACES  
THE SCHOOL WILL USE THE  
EXISTING BUS STOP/DEP  
OFF AT THE FERRY  
TERMINAL.

**NOTES:**

- K0 — DENOTES PROPOSED SITE BOUNDARY
- K1 — DENOTES PROPOSED KERB ONLY
- K2 — DENOTES PROPOSED KERB AND GUTTER
- D0 — DENOTES PROPOSED DISH DRAIN
- P0 — DENOTES PROPOSED ROAD PAVEMENT
- P1 — DENOTES PROPOSED STORMWATER PITS
- P2 — DENOTES PROPOSED STORMWATER PIPE
- RWT — RAINWATER HARVESTING TANK
- GPT — GROSS POLLUTANT TRAP (GDS0506 OR APPROVED EQUIVALENT)

**NOTES:**

- REFER TO DRAWINGS C101 FOR DA AND STORMWATER NOTES
- ROOF AREA TO DRAIN TO PROPOSED RAINWATER TANK. INTERNAL SITE DRAINAGE TO DRAIN VIA STORMWATER TREATMENT TRAIN (GPT AND STORMFILTERS) PRIOR TO LEAVING SITE
- STORMWATER DRAINAGE AND ROADWORKS ARE TO BE IN ACCORDANCE WITH SOPA POLICY AND GUIDELINES

REVISION	DESCRIPTION	ISSUED	VER D	APP'D	DATE	CLIENT	ARCHITECT	PROJECT	DRAWING TITLE	JOB NUMBER
1	ISSUED FOR DA APPROVAL	RG		SN	07.02.14				CIVIL DESIGN	130648
2	REISSUED FOR DA APPROVAL	SW		SN	17.05.14				ROAD AND CONCEPT DRAINAGE LAYOUT - SHEET 2	
3	RE-ISSUED FOR DA APPROVAL	UM		RH	05.09.14					

THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE.

**NORTHROP**  
Sydney  
Level 11, 345 George Street, Sydney NSW 1500  
Ph: (02) 9241 4100 Fax: (02) 9241 4324  
Email: sydney@northrop.com.au ADN 81 094 421 (0)

**NOT FOR CONSTRUCTION**

DRAWING NUMBER **C4.02** REVISION **3**

DRAWING SHEET SIZE - A1