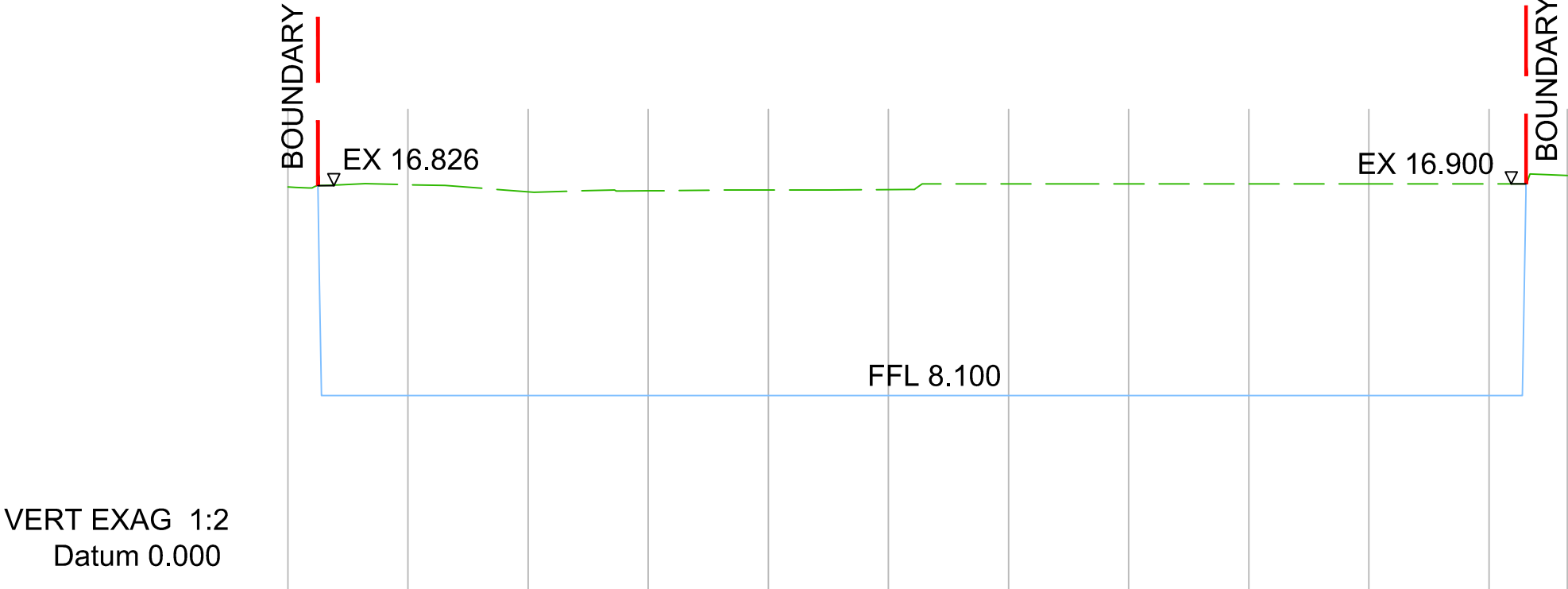
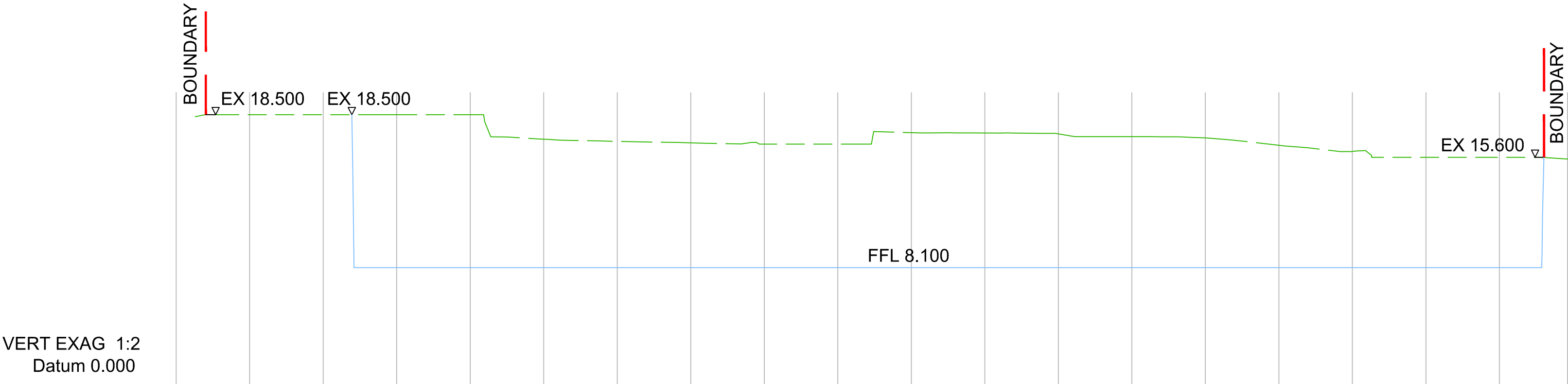
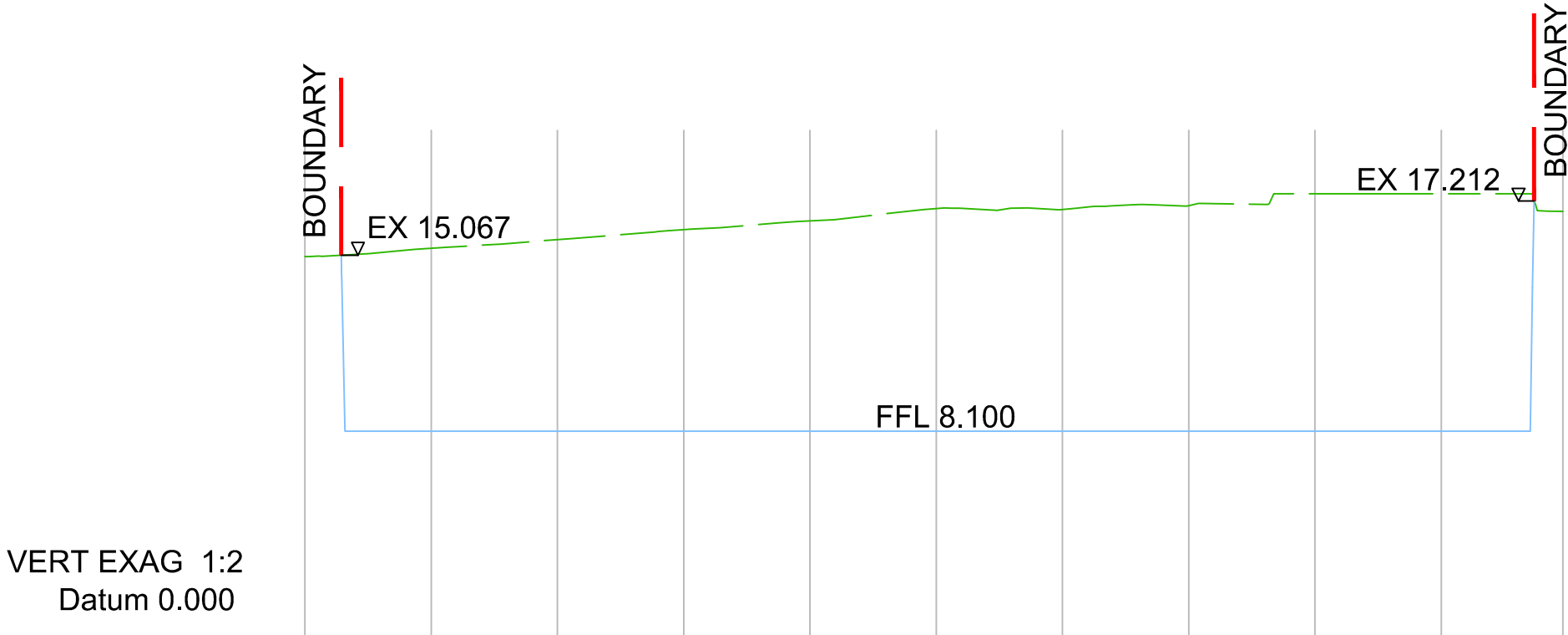




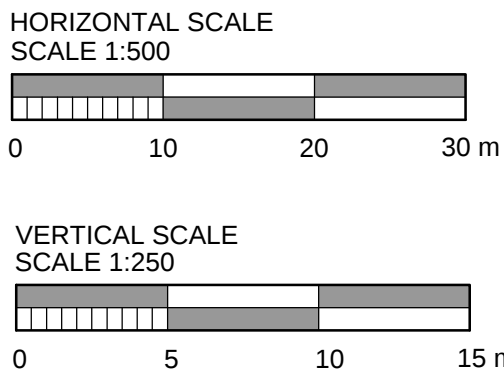
SECTION A



SECTION B



SECTION C



THIS PLAN TO BE READ IN
CONJUNCTION WITH
DA2015/0612
WARRINGAH COUNCIL

03	01/10/15	ISSUED FOR APPROVAL	DC	DC
02	17/09/15	ISSUED FOR APPROVAL	DC	DC
01	25/06/15	ISSUED FOR APPROVAL	IH	IH
rev	date	description	drm	ch'k

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project
DEE WHY TOWN CENTRE

drawing title
EARLY WORK
BULK EARTHWORKS
SECTION

status
FOR APPROVAL

scale at A1 AS NOTED	drawn by I. HARRIS	checked I. HARRIS	date JUN-15
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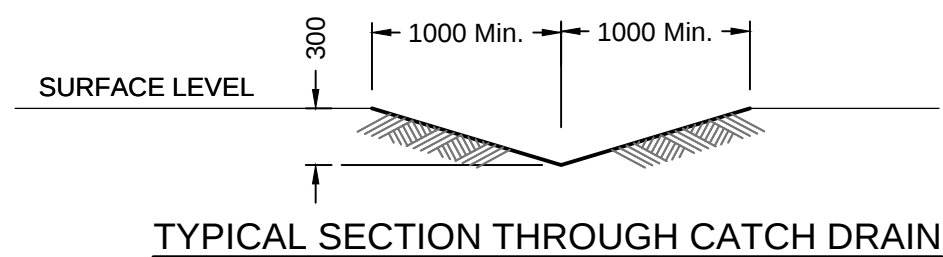
project no. 4963	drawing no. CV-0005	rev. 03
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NOT FOR CONSTRUCTION

NOTES:

- ALL LEVELS ARE IN METRES ABOVE AUSTRALIAN HEIGHT DATUM U.N.O.
- EARTHWORKS CUT/FILL QUANTITIES TABULATED COMPRISE REGRADING IN THE SHADED AREAS ONLY. COLOURED ISOPACHTYE CONTOURS REPRESENTS EXCAVATION AND FILLING DEPTHS FROM EXISTING GROUND LEVELS TO PROPOSED FORMATION LEVEL. FORMATION LEVEL IS DEFINED AS FOLLOWS:
 - IN EXTERNAL AREAS UNDERSIDE OF PAVEMENT SUB-BASE / CAPPING
 - BENEATH BUILDING SLAB UNDERSIDE OF SLAB
 - IN LANDSCAPED AREAS TAKEN AS FINISHED LEVELS
- BULK EARTHWORKS LEVELS BELOW BUILDINGS ARE INDICATED BUT MUST BE CHECKED AGAINST ARCHITECTURAL LEVELS AND STRUCTURAL DETAILS. IN THE EVENT OF DISCREPANCIES, REFER TO ARCHITECT FOR CLARIFICATION. LEVELS ARE SUBJECT TO MINOR CHANGES.
- NO ALLOWANCE HAS BEEN MADE FOR THE EXCAVATION OF FOUNDATIONS, SERVICES TRENCHES OR TANKS
- EXCAVATION AND FILLING ADJACENT TO RETAINED TREES TO BE IN ACCORDANCE WITH TREE PROTECTION STRATEGY AND ABORCULTURIST RECOMMENDATIONS.
- ALL LOCATIONS SHOWN IN THIS DRAWING ARE APPROXIMATE BASED ON THE ORIGINAL SURVEY INFORMATION RECEIVED AND ACTUAL LOCATIONS MUST BE ESTABLISHED ON SITE OR BY FURTHER DETAILED SURVEYING.
- NO ALLOWANCE HAS BEEN MADE FOR EARTHWORKS BULKING.

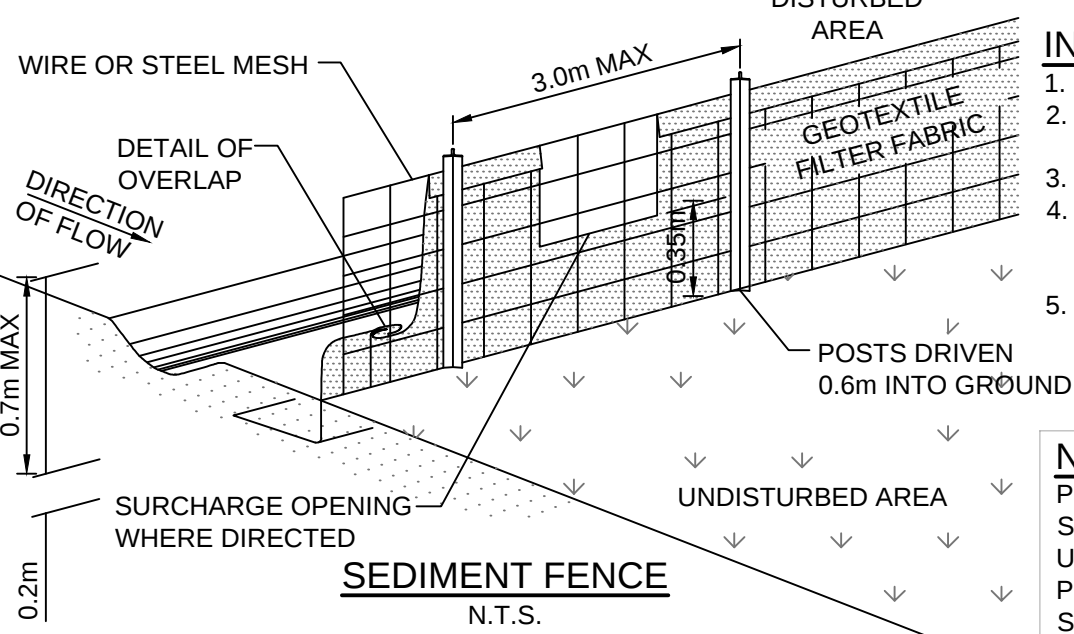
EARTHWORKS CUT/FILL	
CUTTING	121000m³
NET	121000m³ (CUT)



TYPICAL SECTION THROUGH CATCH DRAIN

NOTE:
REFER TO PROPOSED CONTOURS FOR EXACT PROFILE OF CATCH DRAIN REQUIRED IN FINAL STATE

DRAINAGE AREA 0.6ha MAX. - SLOPE GRADIENT 1:2 MAX.
SLOPE LENGTH 60m MAX.

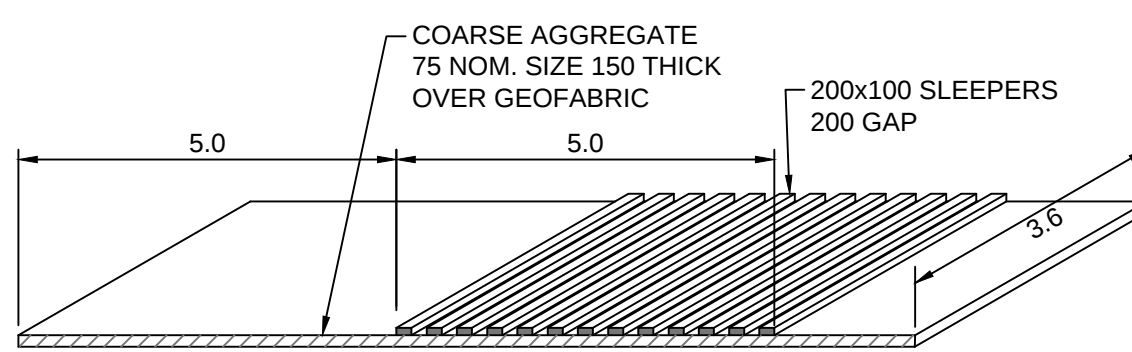


INSTALLATION

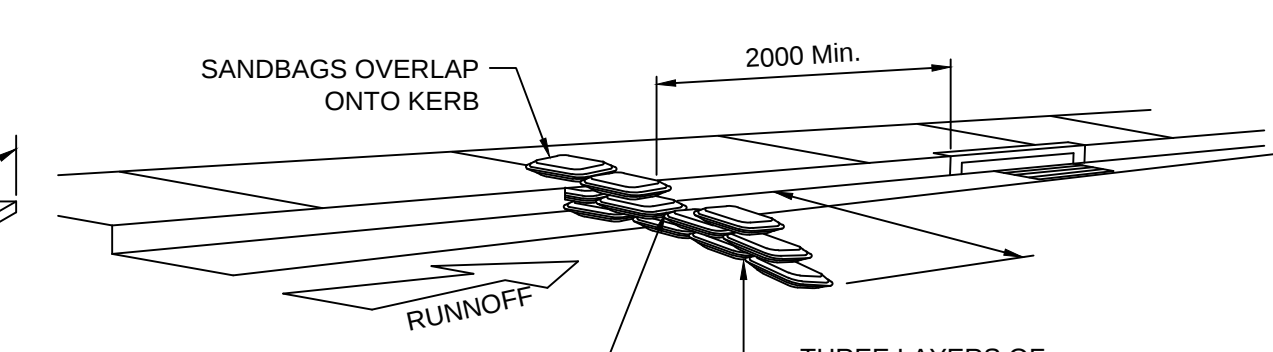
- EXCAVATE A TRENCH 200mm DEEP.
- DRIVE POSTS 500-700mm INTO GROUND AT A MAXIMUM SPACING OF 3.0m CENTRES.
- PLACE AND FIX SUPPORT MESH (F52) TO POST.
- LAY BIDIM GEOTEXTILE (SF 2000) AGAINST THE SUPPORT MESH AND FIX BY TIE WIRE, STAPLES OR HOG RINGS.
- PLACE BIDIM IN TRENCH AND BACKFILL WITH SOIL.

NOTE:

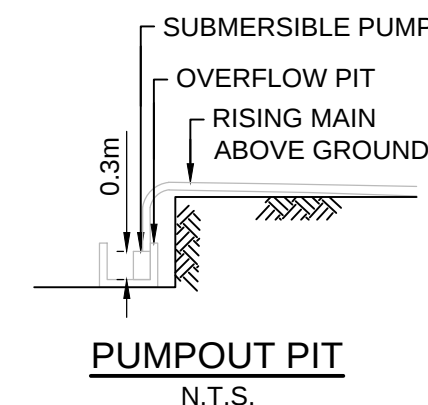
POSITION OF SEDIMENT FENCE AS DIRECTED BY SUPERINTENDENT. FENCE TO REMAIN IN PLACE UNTIL EXCAVATION IS BELOW FOOTPATH LEVEL. PROVIDE 2mx2m TURFED AREA ON DOWNSTREAM SIDE OF FENCE AT SURCHARGE OPENINGS.



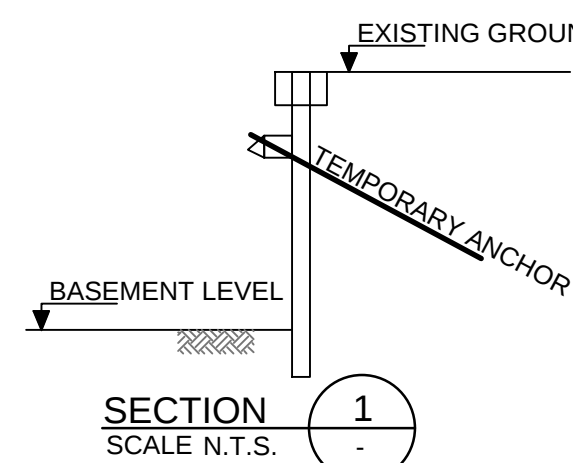
SHAKER GRID
N.T.S.



SANDBAG KERB INLET SEDIMENT TRAP
N.T.S.



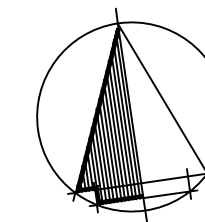
PUMPOUT PIT
N.T.S.



SECTION
SCALE N.T.S.

NOT FOR CONSTRUCTION

SCALE 1:250
0 5 10 15 m



EROSION AND SEDIMENT LEGEND:

- PROPOSED SEDIMENT FENCE
- PROPOSED SHAKER GRID AND WASH DOWN FACILITY
- PROVIDE TEMPORARY SANDBAGS AROUND PITS:
 - AFTER PAVEMENT WORKS ARE COMPLETE IF WORKS ARE ONGOING UPSTREAM
 - TO EXISTING GRATED PITS DOWNSTREAM OF CONSTRUCTION WORKS
- FLOW DIRECTION
- BASEMENT EXTENT
- TEMPORARY CATCH DRAIN
- 750DIA CFA PILE TO ROCK

NOTE:
REFER TO ARCHITECTURAL PLANS FOR DETAILED FINISHED LEVELS.

THIS PLAN TO BE READ IN
CONJUNCTION WITH
DA2015/0612
WARRINGAH COUNCIL

04	01/10/15	ISSUED FOR APPROVAL	DC	DC
03	17/09/15	ISSUED FOR APPROVAL	DC	DC
02	22/07/15	ISSUED FOR APPROVAL	CF	DC
01	25/06/15	ISSUED FOR APPROVAL	IH	IH
rev	date	description	dwn	chk

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project
DEE WHY TOWN CENTRE

drawing title
EARLY WORKS
BULK EARTHWORKS
SHORING, SEDIMENT &
EROSION CONTROL PLAN

status
FOR APPROVAL

scale at A1
AS NOTED

drawing by
I. HARRIS

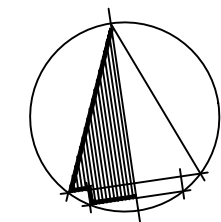
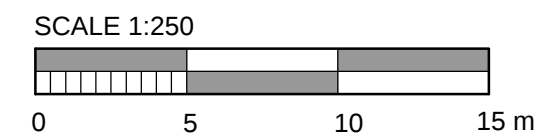
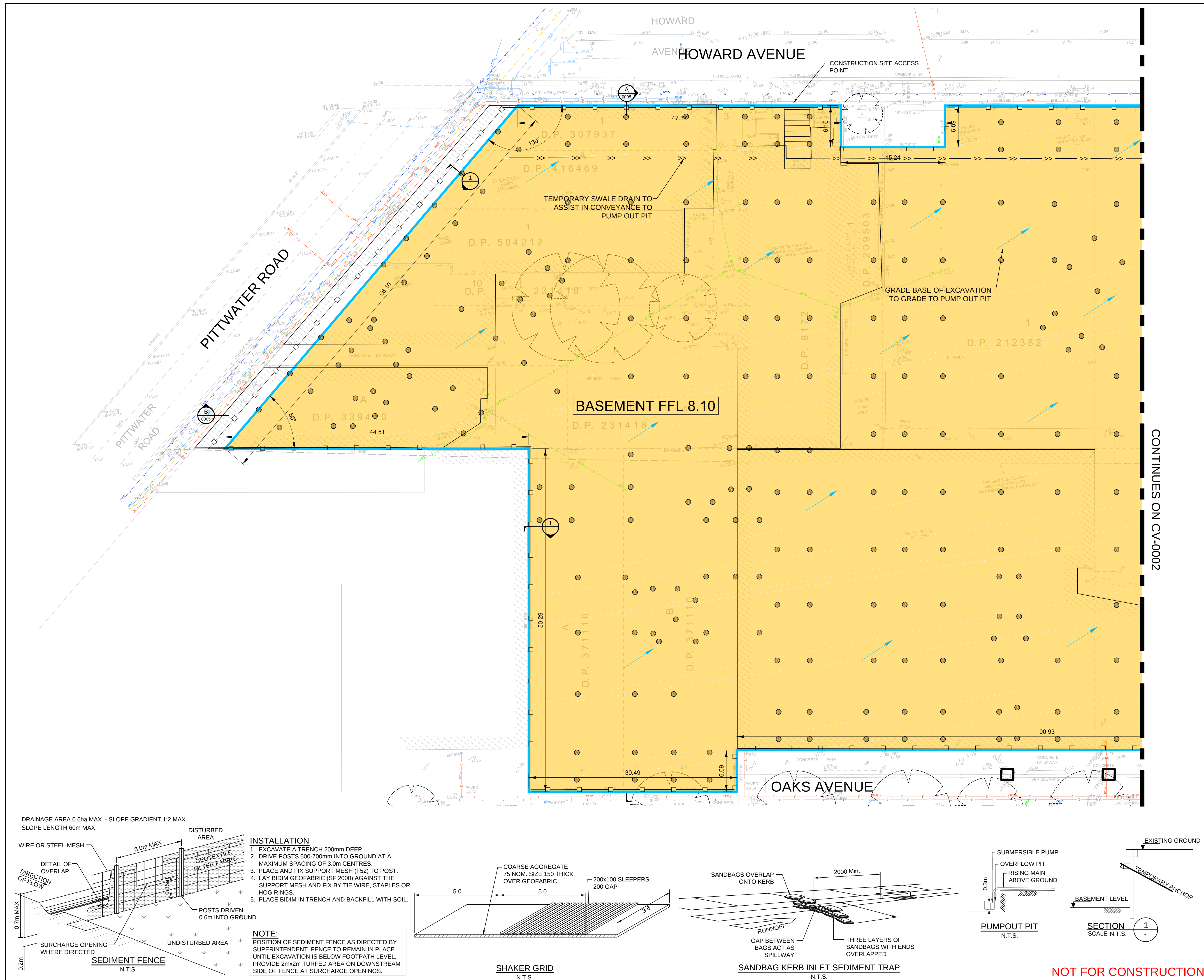
checked
I. HARRIS

date
JUN-15

project no.
4963

drawing no.
CV-0002

rev.
04



EROSION AND SEDIMENT LEGEND:

- PROPOSED SEDIMENT FENCE
- PROPOSED SHAKER GRID AND WASH DOWN FACILITY
- PROVIDE TEMPORARY SANDBAGS AROUND PITS:
1. AFTER PAVEMENT WORKS ARE COMPLETE IF WORKS ARE ONGOING UPSTREAM
2. TO EXISTING GRATED PITS DOWNSTREAM OF CONSTRUCTION WORKS
- FLOW DIRECTION
- BASEMENT EXTENT
- TEMPORARY CATCH DRAIN
- 750DIA CFA PILE TO ROCK

NOTE:
REFER TO ARCHITECTURAL PLANS FOR DETAILED FINISHED LEVELS.

THIS PLAN TO BE READ IN CONJUNCTION WITH
DA2015/0612
WARRINGAH COUNCIL

06	01/10/15	ISSUED FOR APPROVAL	DC	DC
05	17/09/15	ISSUED FOR APPROVAL	DC	DC
04	22/07/15	ISSUED FOR APPROVAL	CF	DC
03	01/07/15	ISSUED FOR APPROVAL	IH	IH
02	30/06/15	ISSUED FOR APPROVAL	IH	IH
01	25/06/15	ISSUED FOR APPROVAL	IH	IH
rev	date	description	dwn	chk

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project
DEE WHY TOWN CENTRE

drawing title
**EARLY WORKS
BULK EARTHWORKS
SHORING, SEDIMENT &
EROSION CONTROL PLAN**

status
FOR APPROVAL

scale at A1
AS NOTED

drawn by
I. HARRIS

checked
I. HARRIS

date
JUN-15

project no.
4963

drawing no.
CV-0001

rev.
06



LEGEND	
	PROPOSED STORMWATER DRAINAGE LINE
	EXISTING STORMWATER DRAINAGE LINE
	PROPOSED GULLY PIT (RMS SA3)
	PROPOSED JUNCTION PIT
	EXISTING SURFACE CONTOURS (0.5m INTERVAL)
	SITE BOUNDARY
	PROPOSED SEWER (BY OTHERS)
	EXISTING FIBRE OPTICS LINE (NBN)
	EXISTING ELECTRICITY
	EXISTING GAS
	EXISTING RMS CABLES INSTALLATION
	EXISTING SEWER
	EXISTING WATER
	EXISTING TELSTRA

THIS PLAN TO BE READ IN
CONJUNCTION WITH
DA2015/0612
WARRINGAH COUNCIL

B	FOR DEVELOPMENT APPLICATION	TH	09.11.15
A	PRELIMINARY PLANS TO CLIENT FOR COMMENT	TH	05.11.15
Rev.	Revision Description	Designed	Date

Designed:	T.Howe	Authorised:	R.Wiese
Checked:	R.Wiese	Approved:	09.11.15
10 5 0 10 20		1:500	
Original sheet size A1		North	



SYDNEY SUITE 12, 130 PACIFIC HWY, GREENWICH, NSW 2065 P 02 9499 4333
MELBOURNE UNIT 7, 84 CHURCH ST, RICHMOND VIC 3121 P 03 9208 0111

CAD FILE: 1793 Pittwater Rd CD.dwg

CLIENT:
KARIMBLA CONSTRUCTIONS SERVICES (NSW)
LEVEL 11, MERITON TOWER, 528 KENT STREET
SYDNEY, NSW, 2000
(02) 9287 2888

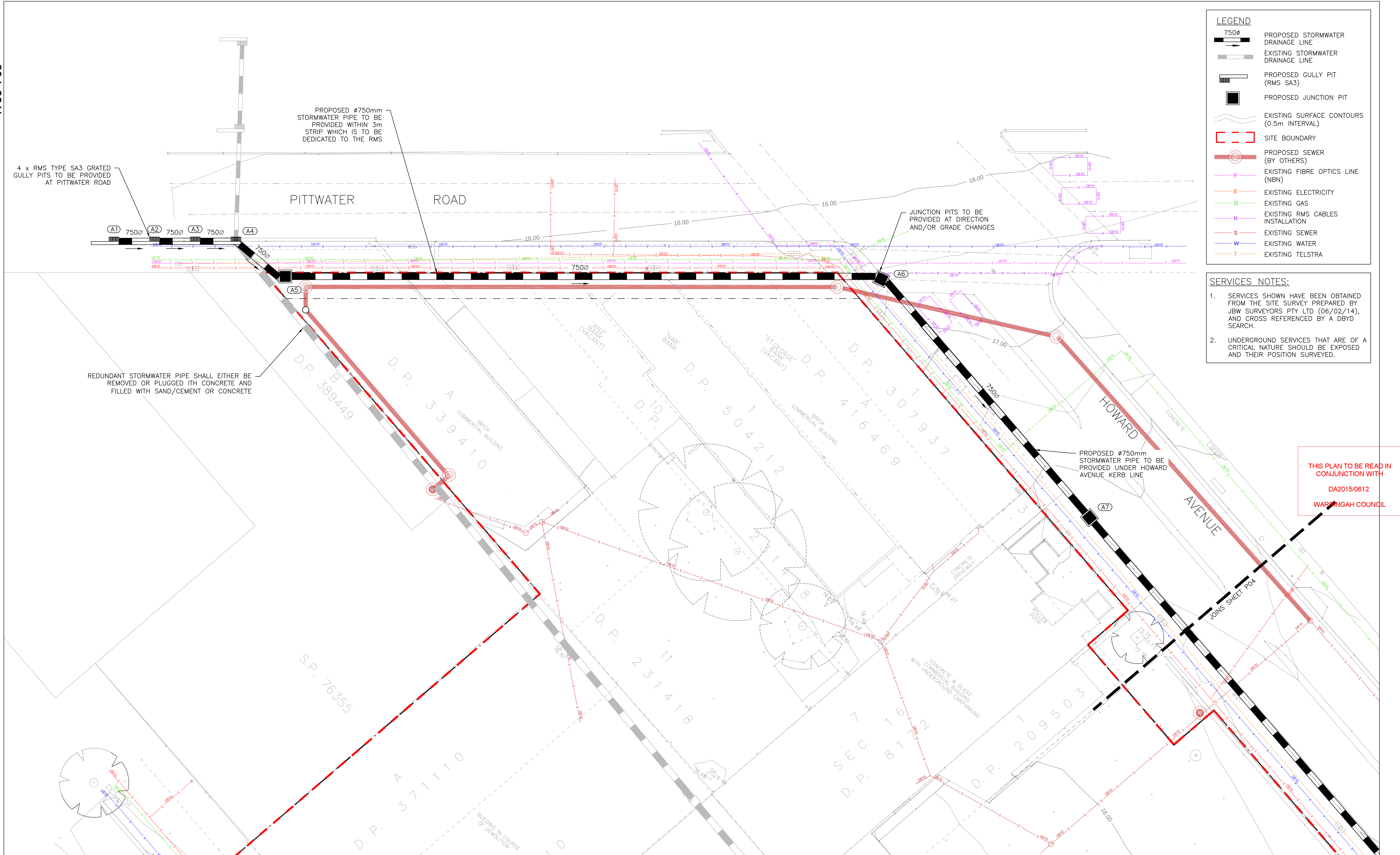
PITTWATER ROAD STORMWATER DIVERSION
CONCEPT DESIGN
888 PITTWATER ROAD, DEE WHY
GENERAL ARRANGEMENT PLAN

Date 09.11.15 Drawing No. 1793 P02

Sheet 02 of 05

For Development Application

STORM CONSULTING authorise the use of this drawing only for the purpose described by the status stamp shown above.
This drawing should be read in conjunction with all relevant contracts, specifications, reports & drawings.



B	FOR DEVELOPMENT APPLICATION	TH	09.11.15
A	PRELIMINARY PLANS TO CLIENT FOR COMMENT	TH	05.11.15
Rev.	Revision Description	Designed	Date

Designed:	T.Howe	Authorised:	R.Wiese
Checked:	R.Wiese	Approved:	09.11.15
4 2 0 4 8		1:200	
Original sheet size A1			

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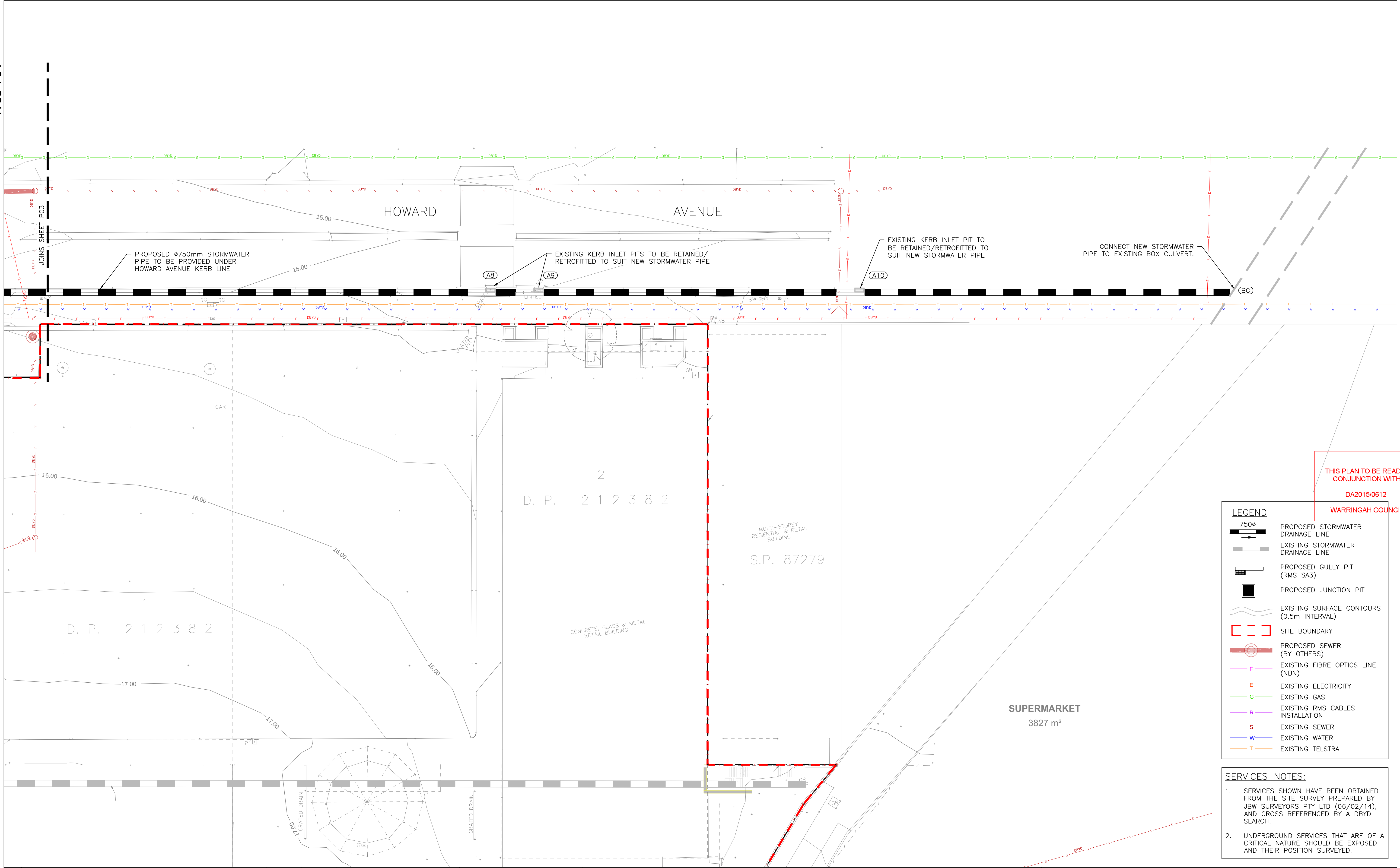
SYDNEY SUITE 12, 130 PACIFIC HWY, GREENWICH, NSW 2065 P 02 9499 4333
MELBOURNE UNIT 7, 84 CHURCH ST, RICHMOND VIC 3121 P 03 9208 0111

CAD FILE: 1793 Pittwater Rd CD.dwg

CLIENT:
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PITTWATER ROAD STORMWATER DIVERSION
CONCEPT DESIGN
888 PITTWATER ROAD, DEE WHY
DRAINAGE LAYOUT PLAN
SHEET 1 OF 2

Date 09.11.15 Drawing No. 1793 P03 Sheet 03 of 05



THIS PLAN TO BE READ IN CONJUNCTION WITH
DA2015/0612
WARRINGAH COUNCIL

LEGEND

	750mm	PROPOSED STORMWATER DRAINAGE LINE
		EXISTING STORMWATER DRAINAGE LINE
		PROPOSED GULLY PIT (RMS SA3)
		PROPOSED JUNCTION PIT
		EXISTING SURFACE CONTOURS (0.5m INTERVAL)
		SITE BOUNDARY
		PROPOSED SEWER (BY OTHERS)
	F	EXISTING FIBRE OPTICS LINE (NBN)
	E	EXISTING ELECTRICITY
	G	EXISTING GAS
	R	EXISTING RMS CABLES INSTALLATION
	S	EXISTING SEWER
	W	EXISTING WATER
	T	EXISTING TELSTRA

SERVICES NOTES:

- SERVICES SHOWN HAVE BEEN OBTAINED FROM THE SITE SURVEY PREPARED BY JBW SURVEYORS PTY LTD (06/02/14), AND CROSS REFERENCED BY A DBYD SEARCH.
- UNDERGROUND SERVICES THAT ARE OF A CRITICAL NATURE SHOULD BE EXPOSED AND THEIR POSITION SURVEYED.

B	FOR DEVELOPMENT APPLICATION	TH	09.11.15
A	PRELIMINARY PLANS TO CLIENT FOR COMMENT	TH	05.11.15
Rev.	Revision	Description	

Designed:	T.Howe	Authorised:	R.Wiese
Checked:	R.Wiese	Approved:	09.11.15
4 2 0 4 8		1:200	
Original sheet size A1		North	



SYDNEY SUITE 12, 130 PACIFIC HWY, GREENWICH, NSW 2065 P 02 9499 4333
MELBOURNE UNIT 7, 84 CHURCH ST, RICHMOND VIC 3121 P 03 9208 0111

CAD FILE: 1793 Pittwater Rd CD.dwg

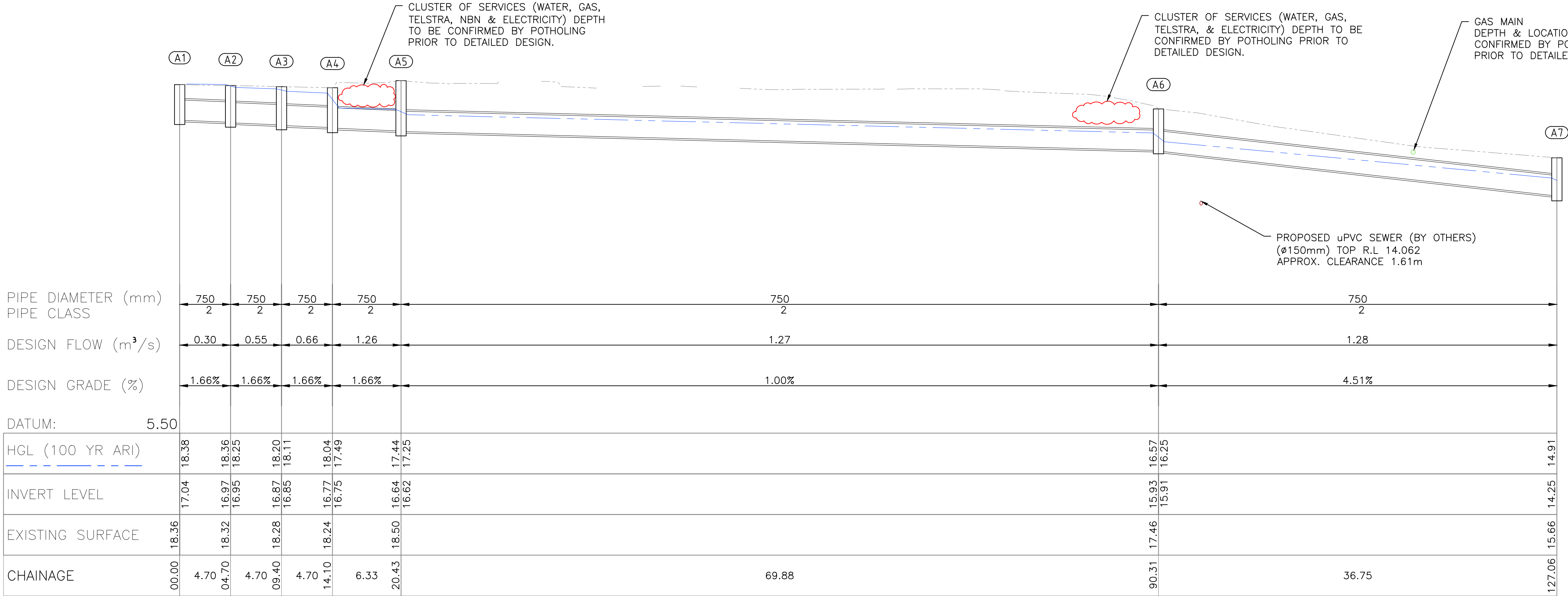
CLIENT:
KARIMBLA CONSTRUCTIONS SERVICES (NSW)
LEVEL 11, MERITON TOWER, 528 KENT STREET
SYDNEY, NSW, 2000
(02) 9287 2888

PITTWATER ROAD STORMWATER DIVERSION
CONCEPT DESIGN
888 PITTWATER ROAD, DEE WHY
DRAINAGE LAYOUT PLAN
SHEET 2 OF 2

Date 09.11.15 Drawing No. 1793 P04 Sheet 04 of 05

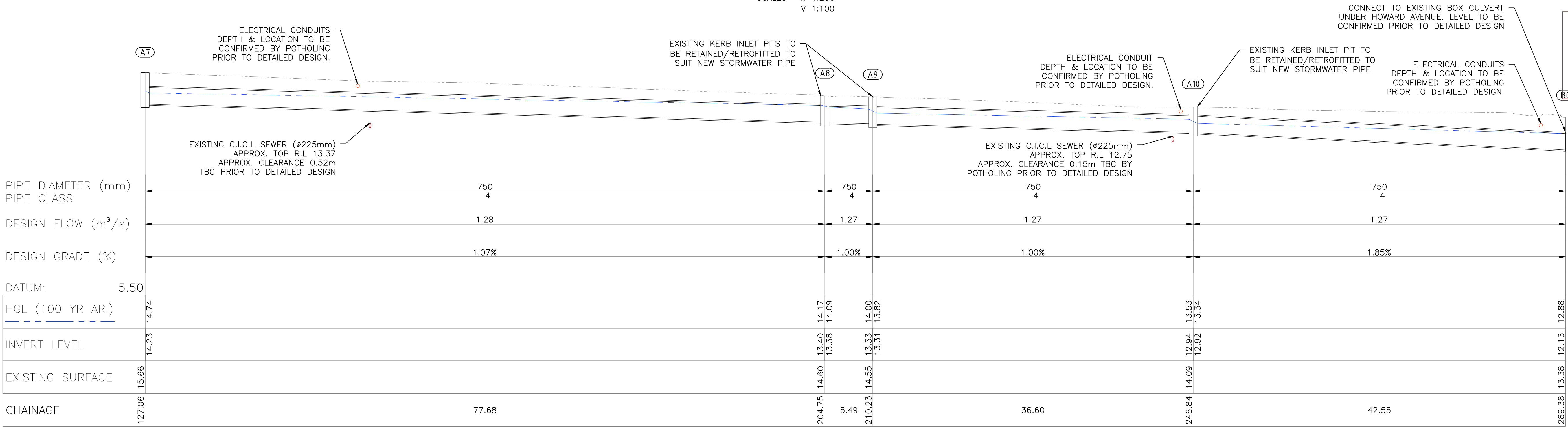
For Development Application

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DRAINAGE LONGITUDINAL SECTION (A1 – A7)

SCALES H 1:250
V 1:100



THIS PLAN TO BE READ IN CONJUNCTION WITH
DA2015/0612
WARRINGAH COUNCIL

DRAINAGE LONGITUDINAL SECTION (A7 – BC)

SCALES H 1:250
V 1:100

B	FOR DEVELOPMENT APPLICATION	TH	09.11.15
A	PRELIMINARY PLANS TO CLIENT FOR COMMENT	TH	05.11.15
Rev.	Revision Description	Designed	Date

Designed:	T.Howe	Authorised:	R.Wiese
Checked:	R.Wiese	Approved:	09.11.15
5 2.5 0 5 10 1:250 (HORIZONTAL)			
2 1 0 2 4 1:100 (VERTICAL)			
Original sheet size A1			

For Development Application

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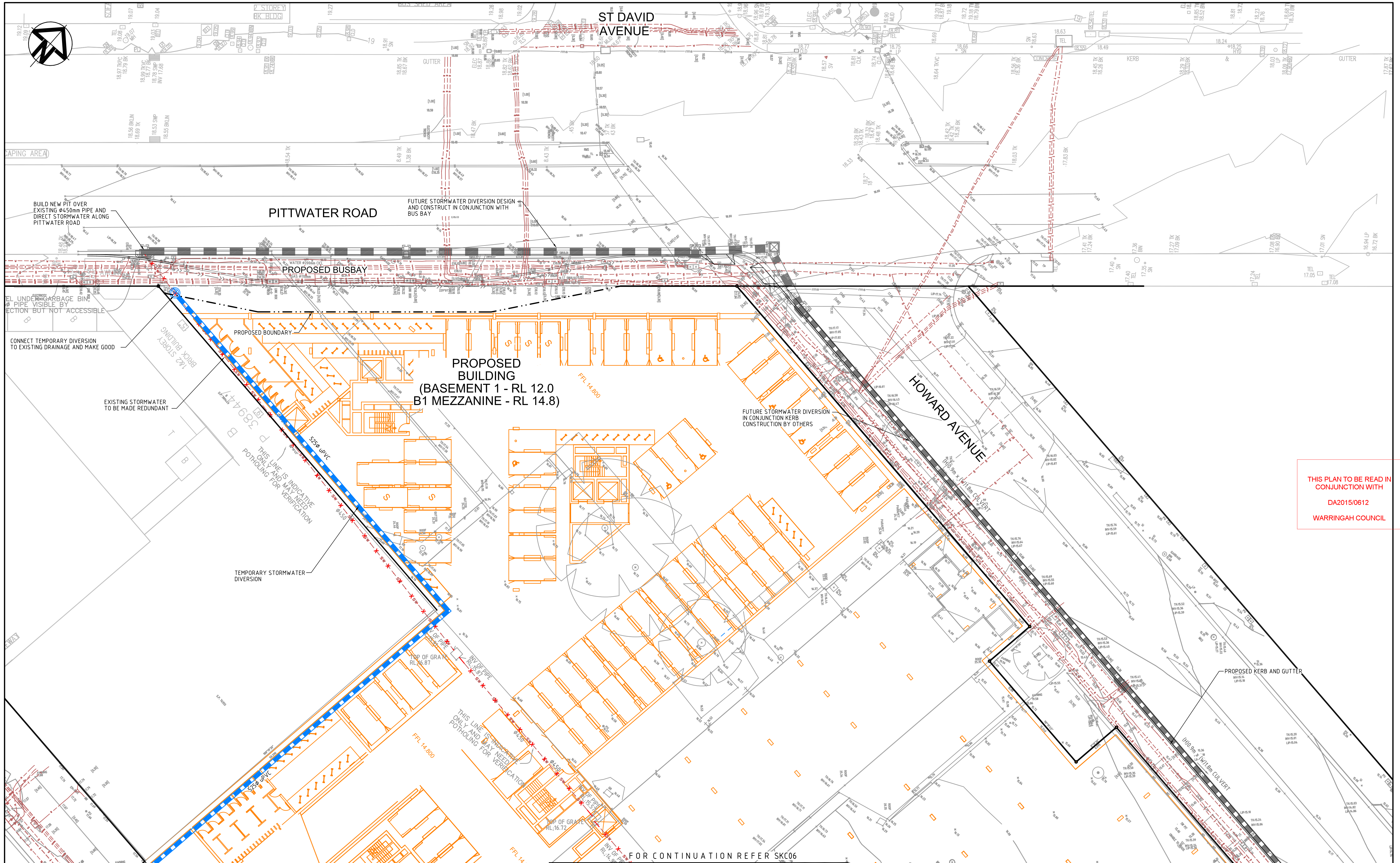


SYDNEY SUITE 12, 130 PACIFIC HWY, GREENWICH, NSW 2065 P 02 9499 4333
MELBOURNE UNIT 7, 84 CHURCH ST, RICHMOND VIC 3121 P 03 9208 0111

CAD FILE: 1793 Pittwater Rd CD.dwg

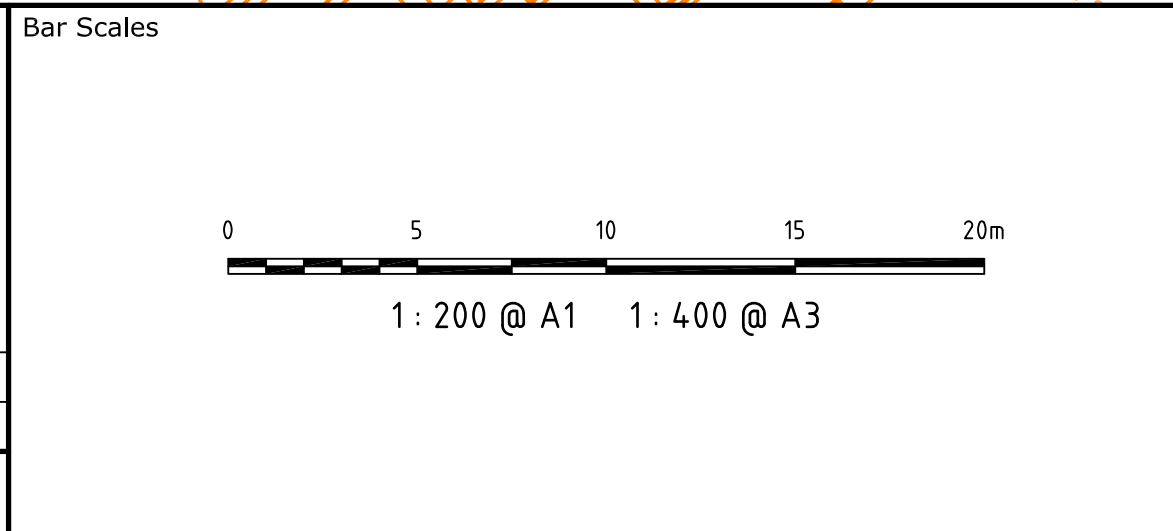
CLIENT:
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LEVEL 11, MERITON TOWER, 528 KENT STREET
SYDNEY, NSW, 2000
(02) 9287 2888

PITTWATER ROAD STORMWATER DIVERSION
CONCEPT DESIGN
888 PITTWATER ROAD, DEE WHY
DRAINAGE LONGITUDINAL SECTION



THIS PLAN TO BE READ IN CONJUNCTION WITH
DA2015/0612
WARRINGAH COUNCIL

A		ISSUED FOR APPROVAL	23-09-15
P1		ISSUED FOR INFORMATION	17-09-15
Issue	Description	Date	



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Client

KARIMBLA
CONSTRUCTION SERVICES (NSW) PTY LIMITED

Level 11, 528 Kent Street, Sydney NSW 2000
Tel: (02) 9287 2888 Fax: (02) 9287 2777
Email: info@design.meriton.com.au
Internet: http://www.meriton.com.au

Scales	1 : 200 @ A1	Drawn	TS
Grid	MGA	Designed	MG
Height Datum	AHD	Checked	MG
		Approved	

Project

888 PITTWATER ROAD,
DEE WHY

Title

PITTWATER ROAD
STORMWATER DIVERSION
PLAN
SHEET 1

Civil Engineers and Project Managers

at&l

Suite 702, 154 Pacific Hwy
St Leonards NSW 2065
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9460 8413
www.atl.net.au
info@atl.net.au

Status	PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	A1
Drawing No.	SKC05	Issue
Project No.	13-167	A

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