

PROJECT: PRESIDENT PRIVATE HOSPITAL DEVELOPMENT, KIRRAWEE

PLANSET: CONCEPT STORMWATER PLAN

CLIENT: MACQUARIE HEALTH CORPORATION

DRAWINGS LIST		
DWG NO.	REV	DWG TITLE
GENERAL		
PS01-A000	A	COVER SHEET
DRAINAGE WORK		
PS01-E100	A	DRAINAGE PLAN
PS01-E200	A	DRAINAGE DETAILS
PS01-E600	A	OSD CATCHMENT PLAN AND DETAILS
PS01-E700	A	WATER QUALITY CATCHMENT PLAN AND DETAILS



LOCALITY PLAN  
NOT TO SCALE

LGA: SUTHERLAND SHIRE COUNCIL

369-381 PRESIDENT AVE, 61-65 HOTHAM ST &  
2-4 BIDURGAL ST, KIRRAWEE, NSW

LOT 1 DP 841502

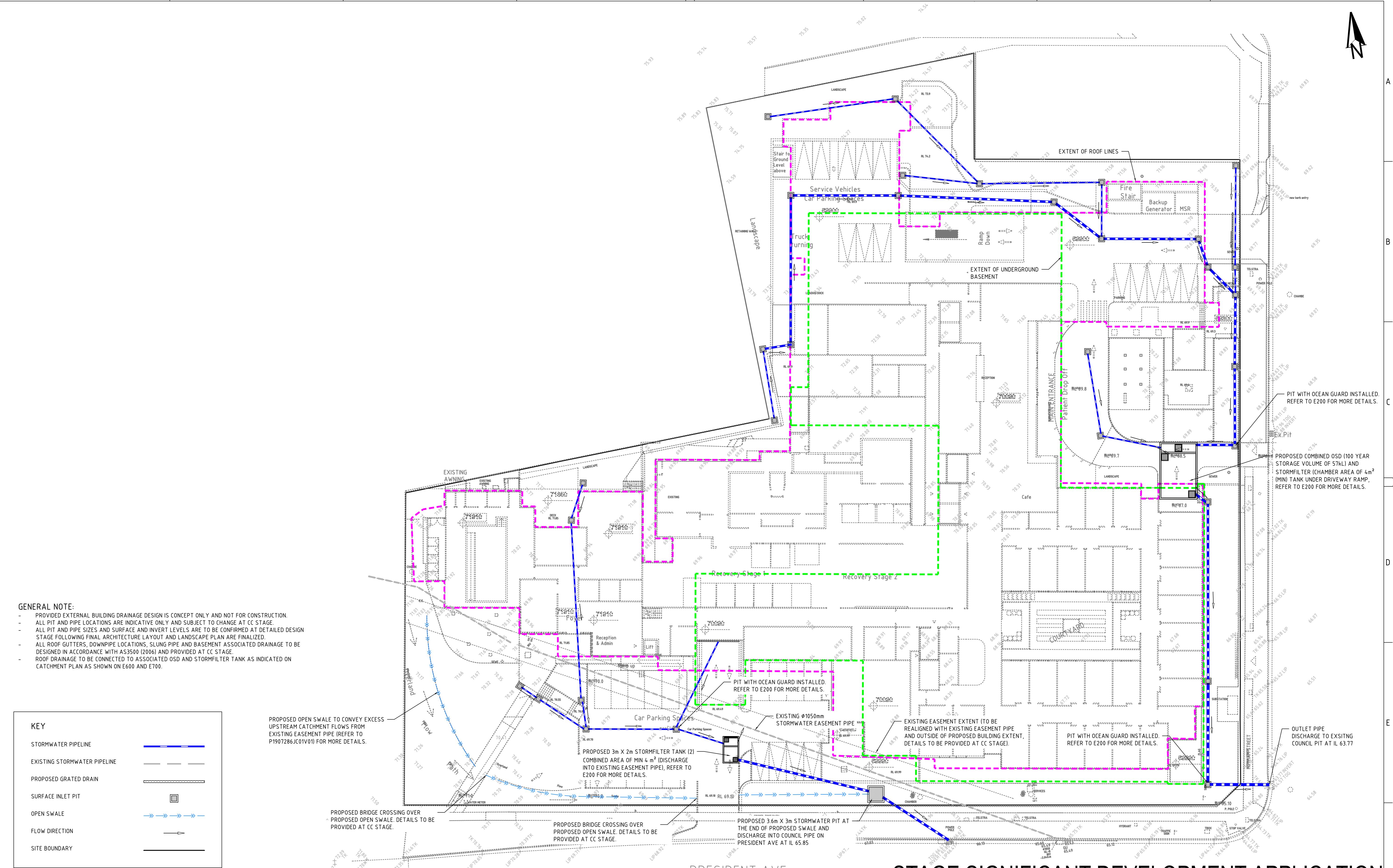
REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE
A	INITIAL RELEASE	26/06/2020	GM	ZH	SL	TH	

PRINTED ---- - USER GM030FA  
GRID  
---  
DATUM  
---  
PROJECT MANAGER  
TH  
DISCLAIMER & COPYRIGHT  
This plan must not be used for construction unless signed as approved by  
principal certifying authority.  
All measurements in millimetres unless otherwise specified.  
This drawing must not be reproduced in whole or part without prior written  
consent of Martens & Associates Pty Ltd  
(C) Copyright Martens & Associates Pty Ltd

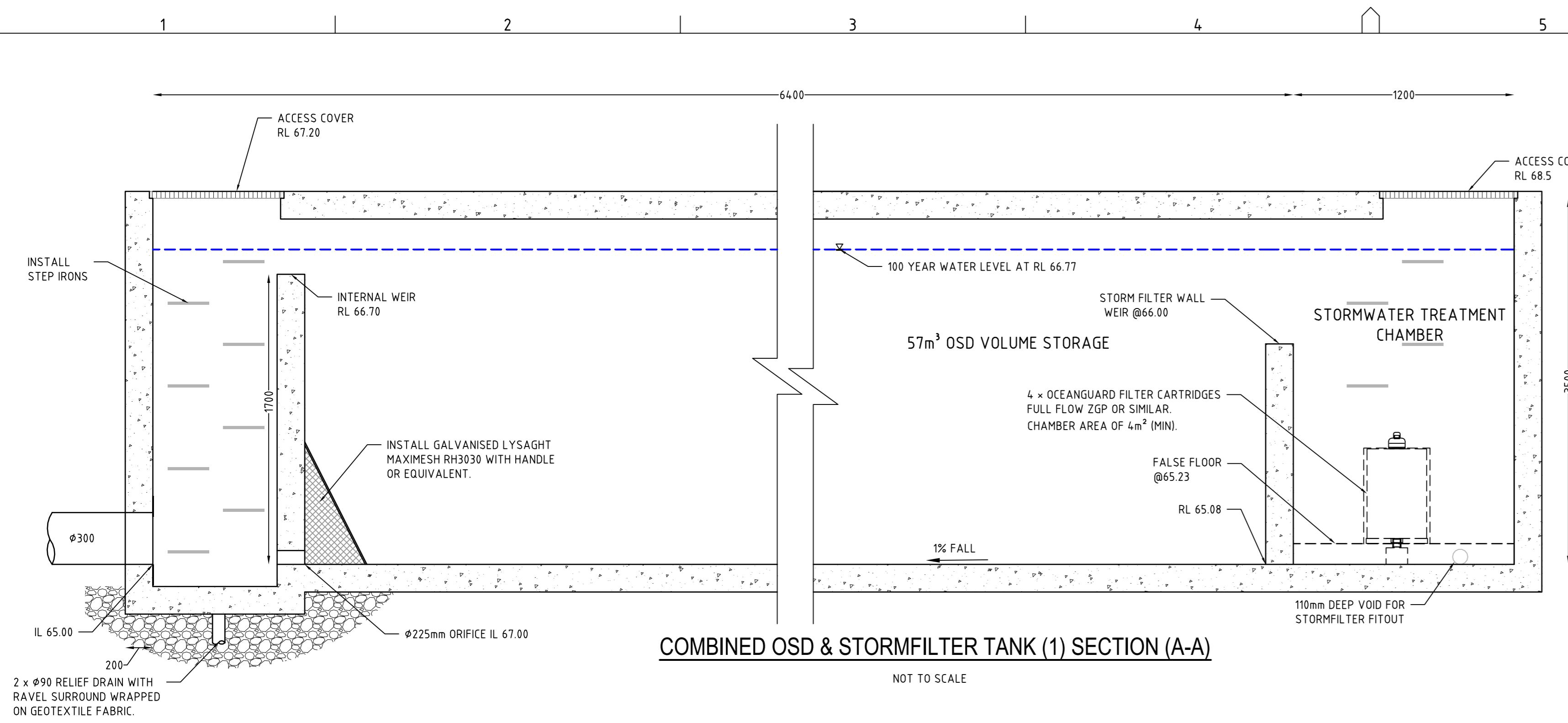
CLIENT  
MACQUARIE HEALTH CORPORATION  
PROJECT NAME/PLANSET TITLE  
PRESIDENT PRIVATE HOSPITAL DEV.  
CONCEPT STORMWATER PLAN  
369-381 PRESIDENT AVE, 61-65 HOTHAM ST &  
2-4 BIDURGAL ST, KIRRAWEE, NSW  
(C) Copyright Martens & Associates Pty Ltd

Consulting Engineers  
Environment  
Water  
Geotechnical  
Civil  
**martens**  
& Associates Pty Ltd  
Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767  
Email: mail@martens.com.au Internet: www.martens.com.au

STAGE SIGNIFICANT DEVELOPMENT APPLICATION  
DRAWING TITLE  
COVER SHEET  
PROJECT NO. P1907286 PLANSET NO. PS01 RELEASE NO. R01 DRAWING NO. PS01-A000 REVISION A  
DRAWING ID: P1907286-PS01-R01-A000

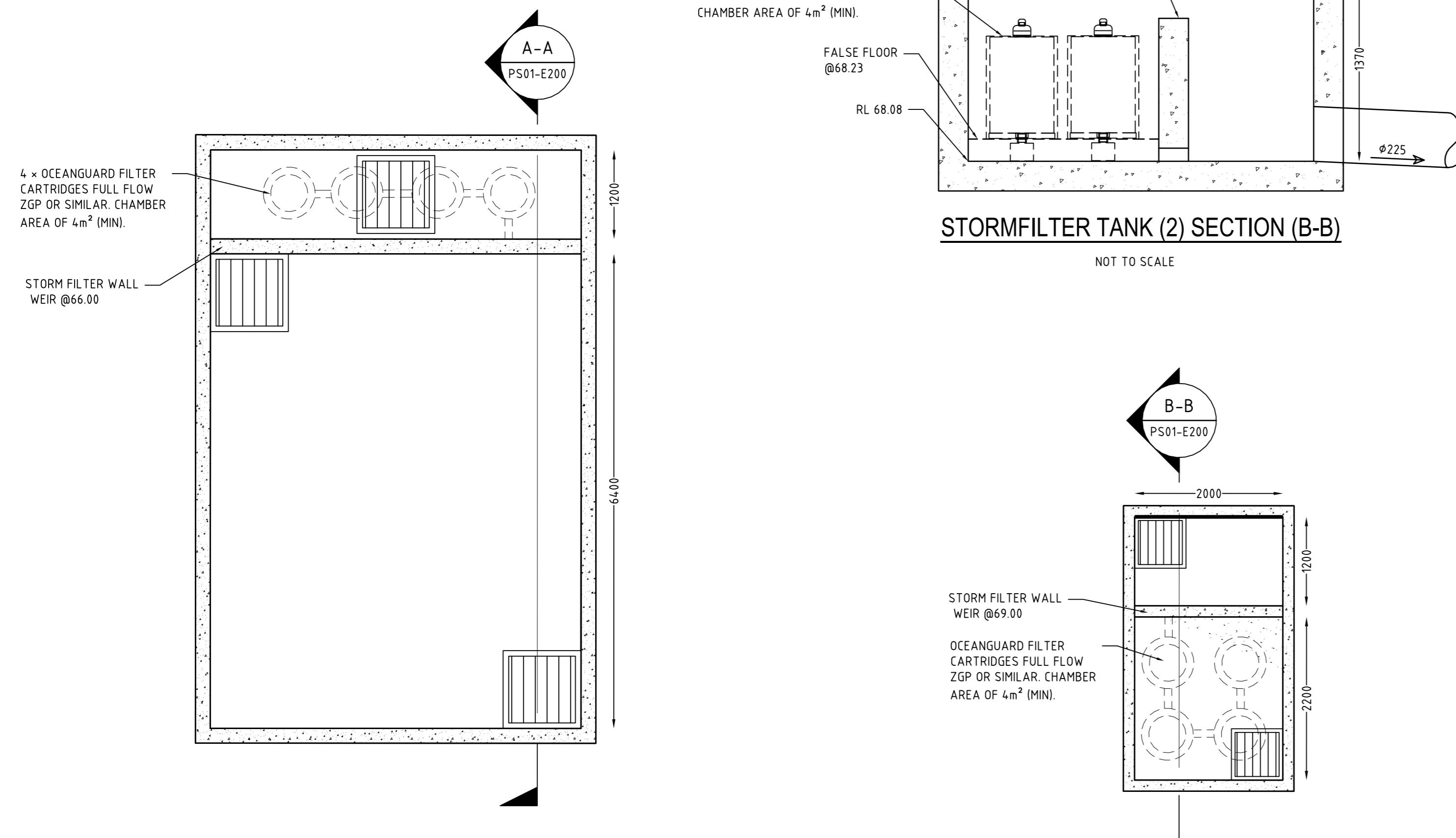


PRESIDENT AVE  
6868 INV  
STAGE SIGNIFICANT DEVELOPMENT APPLICATION



## COMBINED OSD & STORMFILTER TANK (1) SECTION (A-A)

NOT TO SCALE

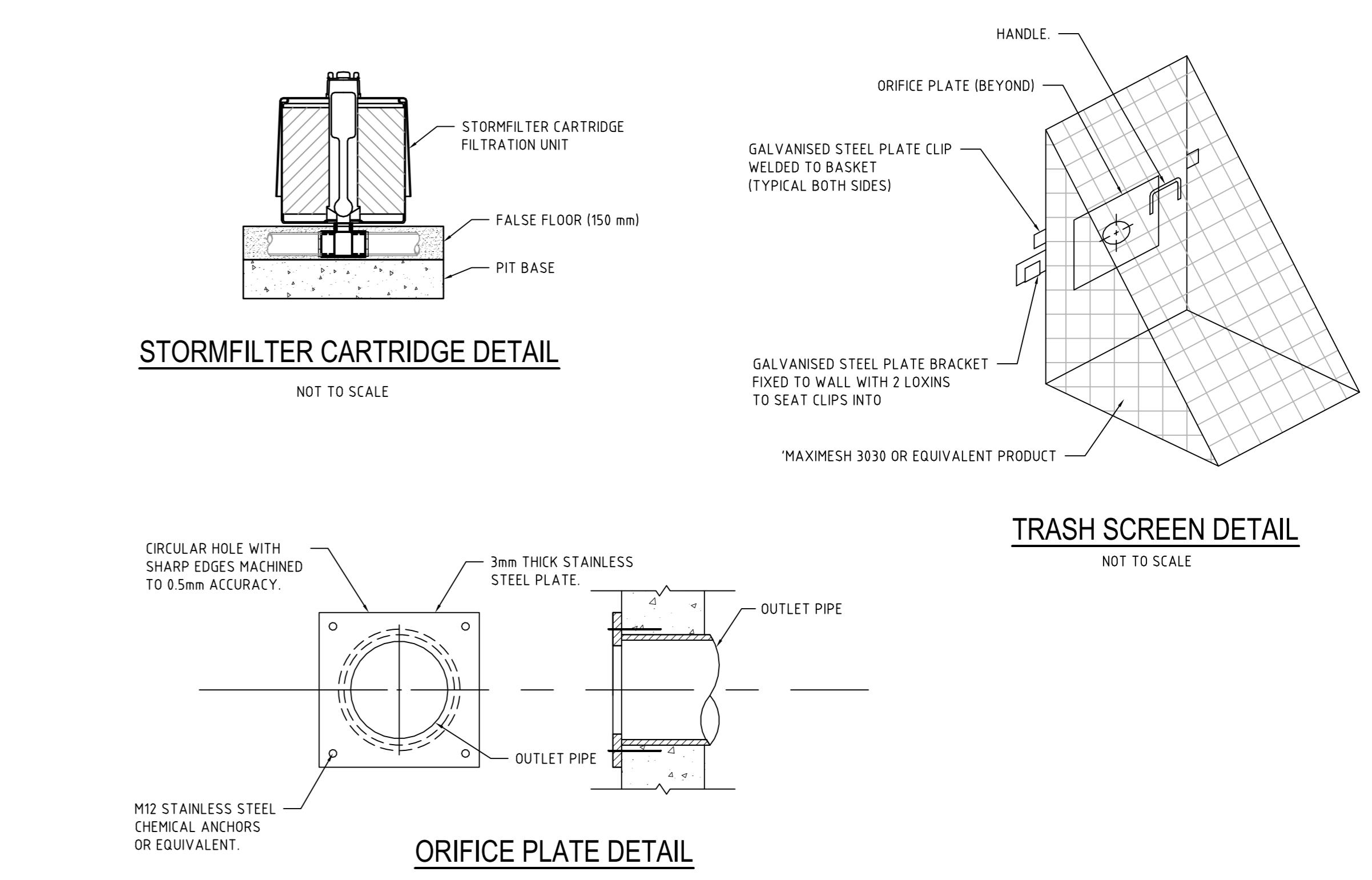


## COMBINED OSD AND STORMFILTER TANK (1) LAYOUT

NOT TO SCALE

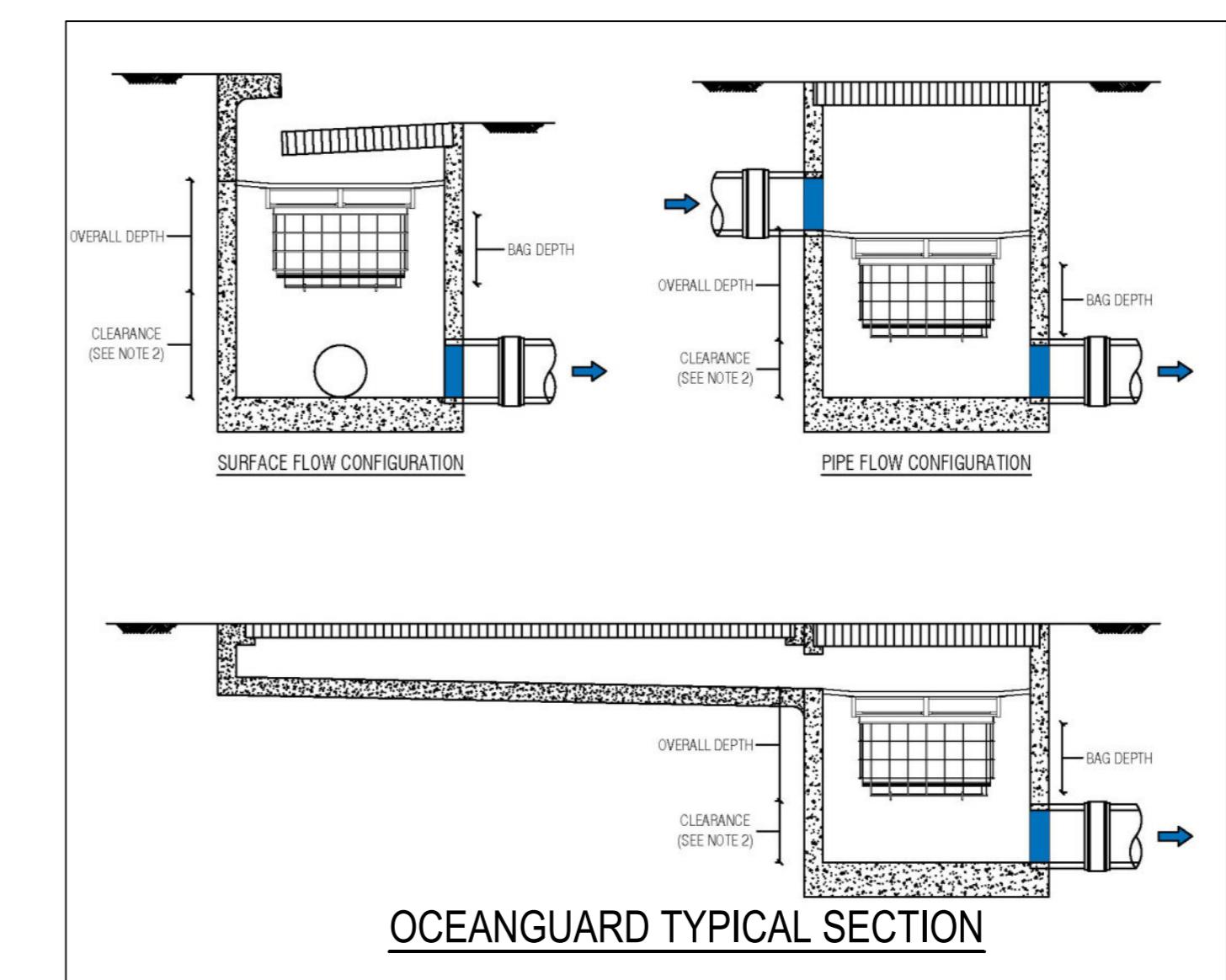
## STORM FILTER TANK (2) LAYOUT

11 of 11



## ORIFICE PLATE DETAIL

NOT TO SCALE



## OCEANGUARD TYPICAL SECTION

ED	APPRVD	SCALE											
	TH												
			0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0

---

DISCLAIMER & COPYRIGHT

**DISCLAIMER & COPYRIGHT**  
This plan must not be used for construction unless signed as approved by  
principal certifying authority.  
All measurements in millimetres unless otherwise specified.  
This drawing must not be reproduced in whole or part without prior written  
consent of Martens & Associates Pty Ltd.  
**(C) Copyright Martens & Associates Pty Ltd**

CLIENT	MACQUARIE HEALTH CORPORATION
PROJECT NAME/PLANSET TITLE	PRESIDENT PRIVATE HOSPITAL DEV. CONCEPT STORMWATER PLAN 369-381 PRESIDENT AVE, 61-65 HOTHAM ST & 2-4 BIDURGAL ST, KIRRAWEE, NSW

# STAGE SIGNIFICANT DEVELOPMENT APPLICATION

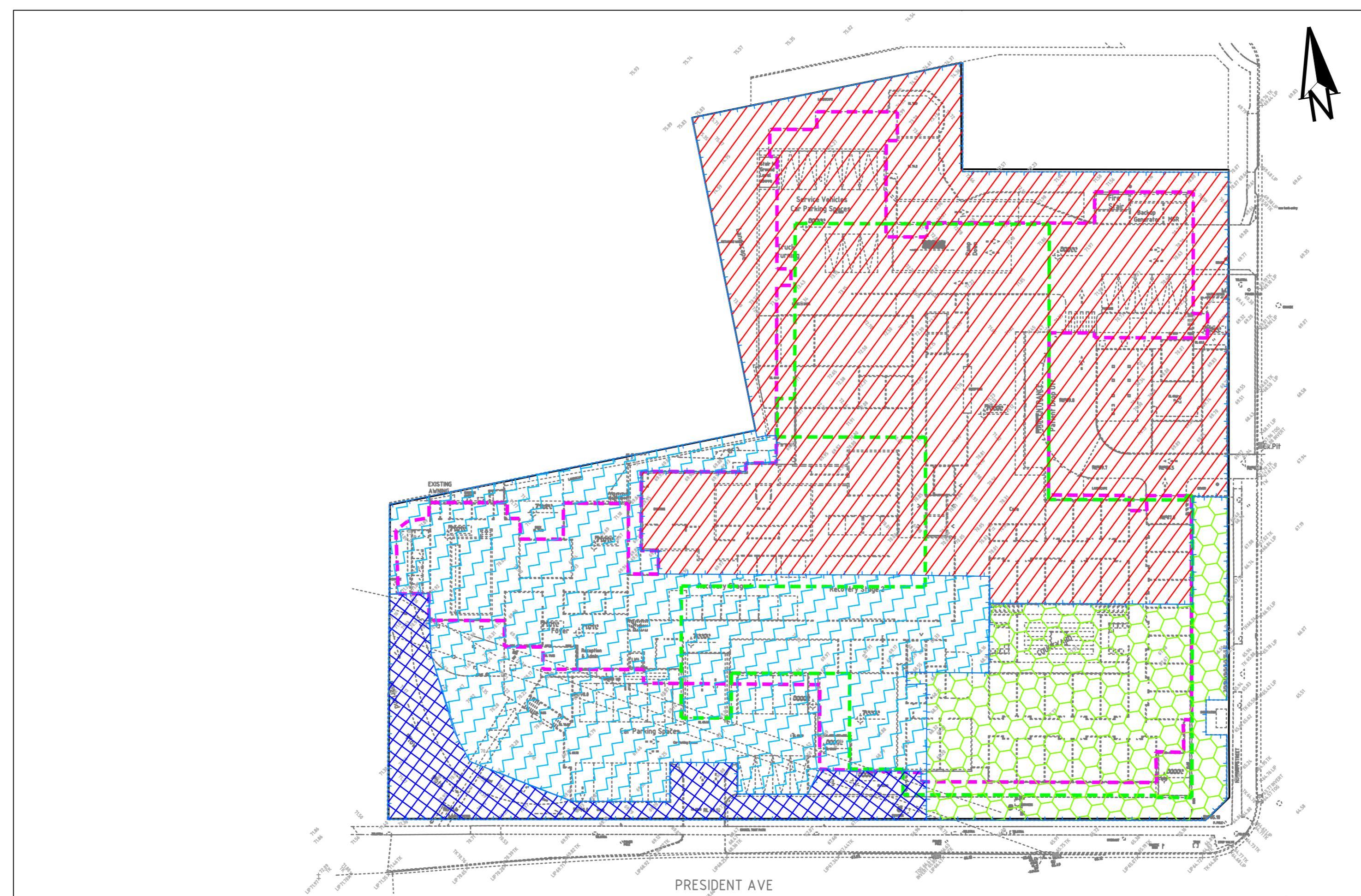
**martens**  
& Associates Pty Ltd

Consulting Engineers  
Environment  
Water  
Geotechnical  
Civil

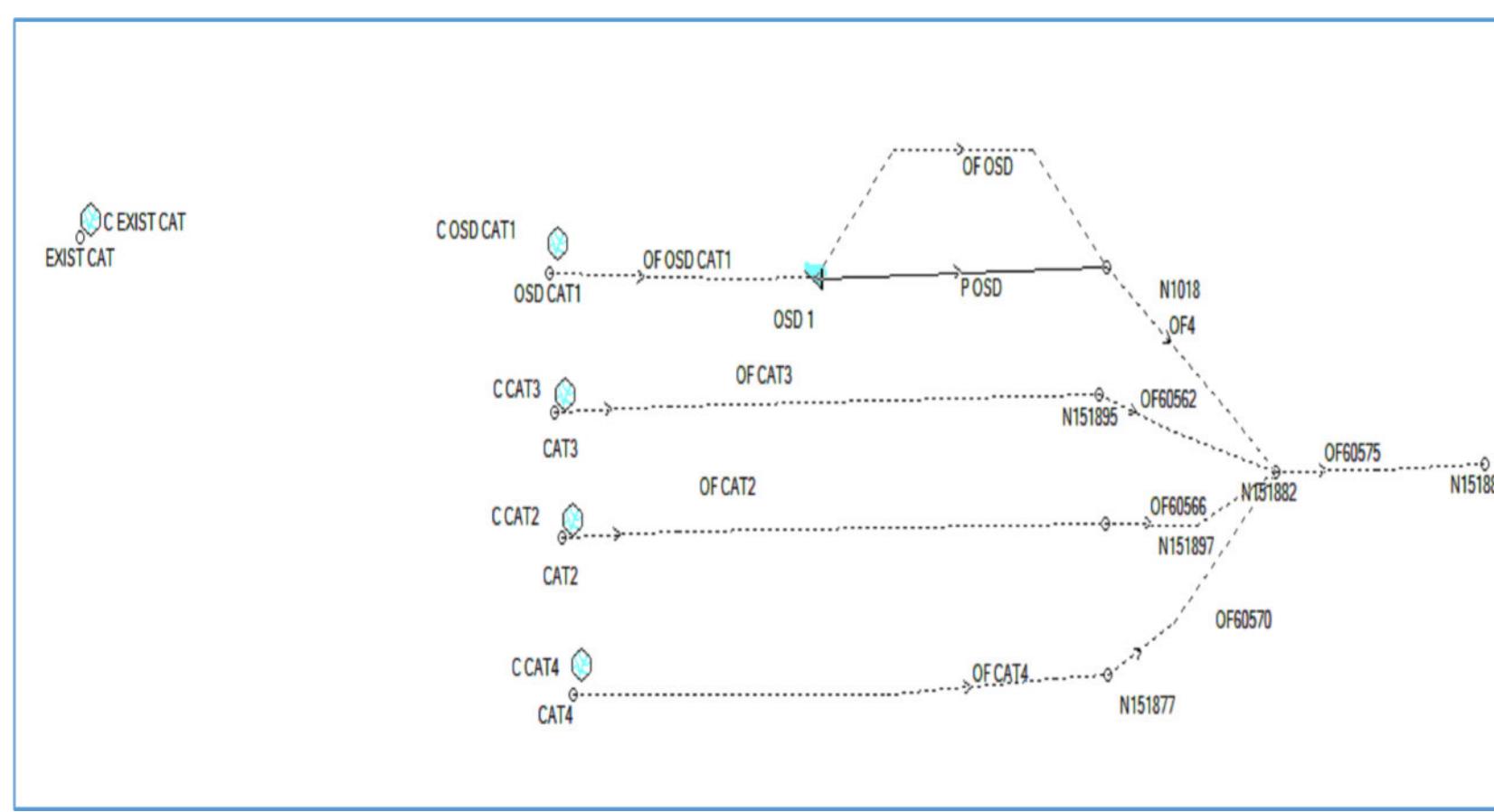
# DRAWING TITLE

## DRAINAGE DETAILS

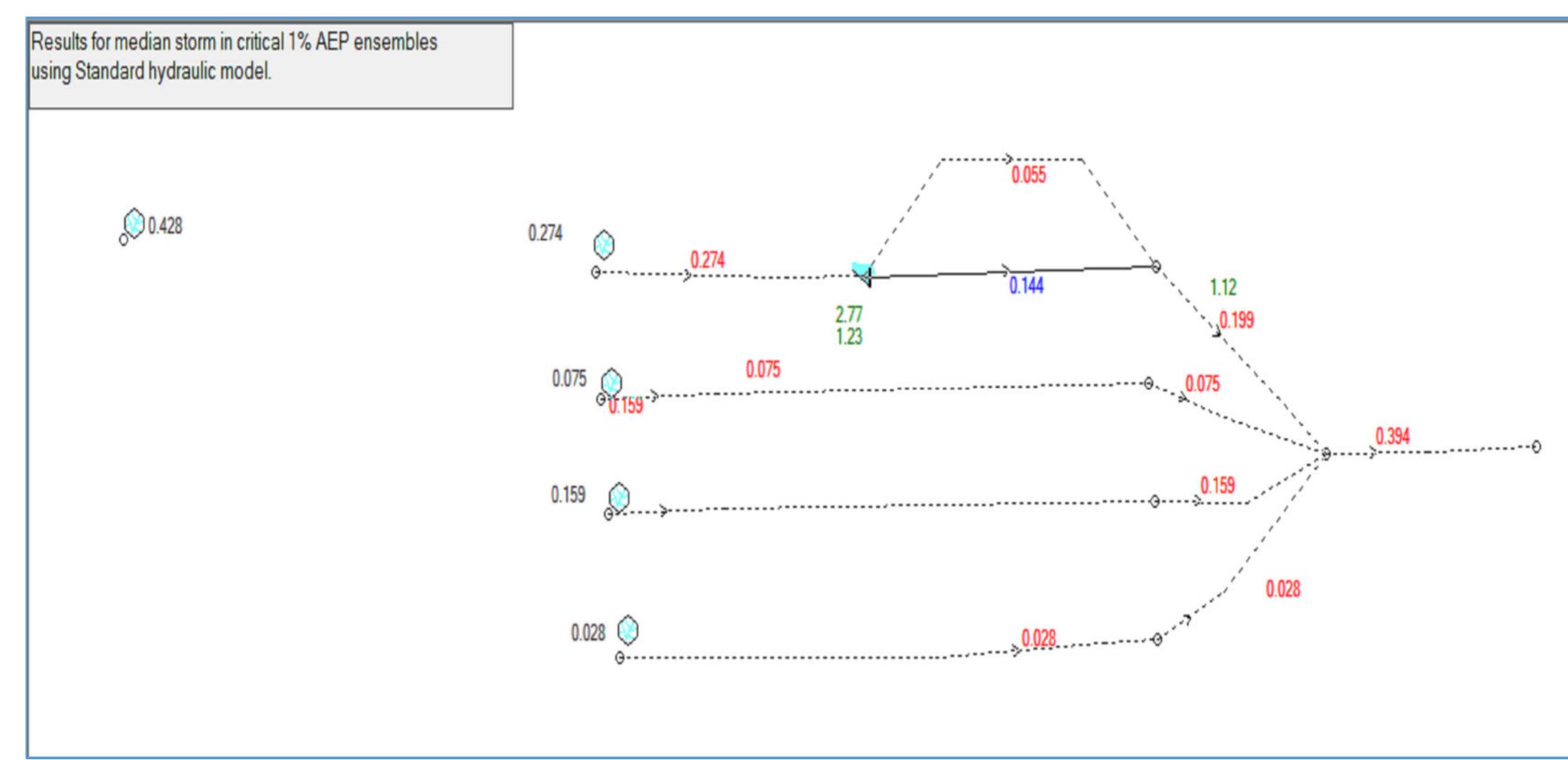
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907286	PS01	R01	PS01-E200	A



POST-DEVELOPMENT OSD CATCHMENT PLAN



PRE VS POST-DEVELOPMENT LAYOUT PLAN (P1907286DRN01V01)



PRE VS POST-DEVELOPMENT RESULT 1%AEP (P1907286DRN01V01)

POST DEVELOPMENT (P1907286DRN01V01)			
	DRAINS CAT.	AREA (HA)	% PAVED 1
C OSD CAT1	0.479	90	
C CAT 3	0.131	90	
C CAT 2	0.279	90	
C CAT 4	0.063	0	
<b>TOTAL AREA</b>	<b>0.952</b>		
<b>TOTAL IMPERVIOUS AREA</b>	<b>0.800</b>	<b>84.1</b>	= % OF OVERALL AREA
<b>TOTAL PVIOUS AREA</b>	<b>0.152</b>	<b>15.9</b>	= % OF OVERALL AREA
NOTE1 ADDITIONAL PAVED AREA APPLIED TO PROPOSED CATCHMENT FOR CONSERVATIVE DESIGN PURPOSE			

DRAIN'S MODEL RESULT COMPARISON (P1907286DRN01V01)			
%AEP	PRE-DEVELOPMENT PEAK FLOW RATE	POST DEVELOPMENT PEAK FLOW RATE	FLOW RATE REDUCTION
1EY	0.15	0.15	0
0.5EY	0.196	0.196	0
0.2EY	0.245	0.235	0.01
10%	0.286	0.272	0.014
5%	0.329	0.307	0.022
2%	0.385	0.34	0.045
1%	0.428	0.394	0.034

## STAGE SIGNIFICANT DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	DRAWING TITLE
A	INITIAL RELEASE	26/06/2020	GM	ZH	SL	TH	0 5 10 15 20 25 30 35 40 45 50 METRES	A1 (A3) 1:500 (1:1,000)	mAHD	TH	MACQUARIE HEALTH CORPORATION	OSD CATCHMENT PLAN AND DETAILS
											PROJECT NAME/PLANSET TITLE	
											PRESIDENT PRIVATE HOSPITAL DEV.	
											CONCEPT STORMWATER PLAN	
											369-381 PRESIDENT AVE, 61-65 HOTHAM ST & 2-4 BIDURGAL ST, KIRRRAWEE, NSW	
											(C) Copyright Martens & Associates Pty Ltd	
											Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au	

**martens**  
& Associates Pty Ltd

Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767  
Email: mail@martens.com.au Internet: www.martens.com.au

DRAWING ID: P1907286-PS01-R01-E600

PROJECT NO. PLANSET NO. RELEASE NO. DRAWING NO. REVISION

P1907286 PS01 R01 PS01-E600 A

