


HYDRAULIC SERVICES  
STORMWATER SUBMISSION  
DEVELOPMENT APPLICATION



A	ISSUED FOR DA APPROVAL	DMS	DMS	8/11/24
B	ISSUED FOR DA APPROVAL	DMS	DMS	6/12/24
REV	DESCRIPTION	DRAWN	APP'D	DATE

CEDAR DESIGN & CONSTRUCT
ARCHITECT/CLIENT

115-117 DUTTON STREET YAGOONA NSW
PROJECT/TITLE

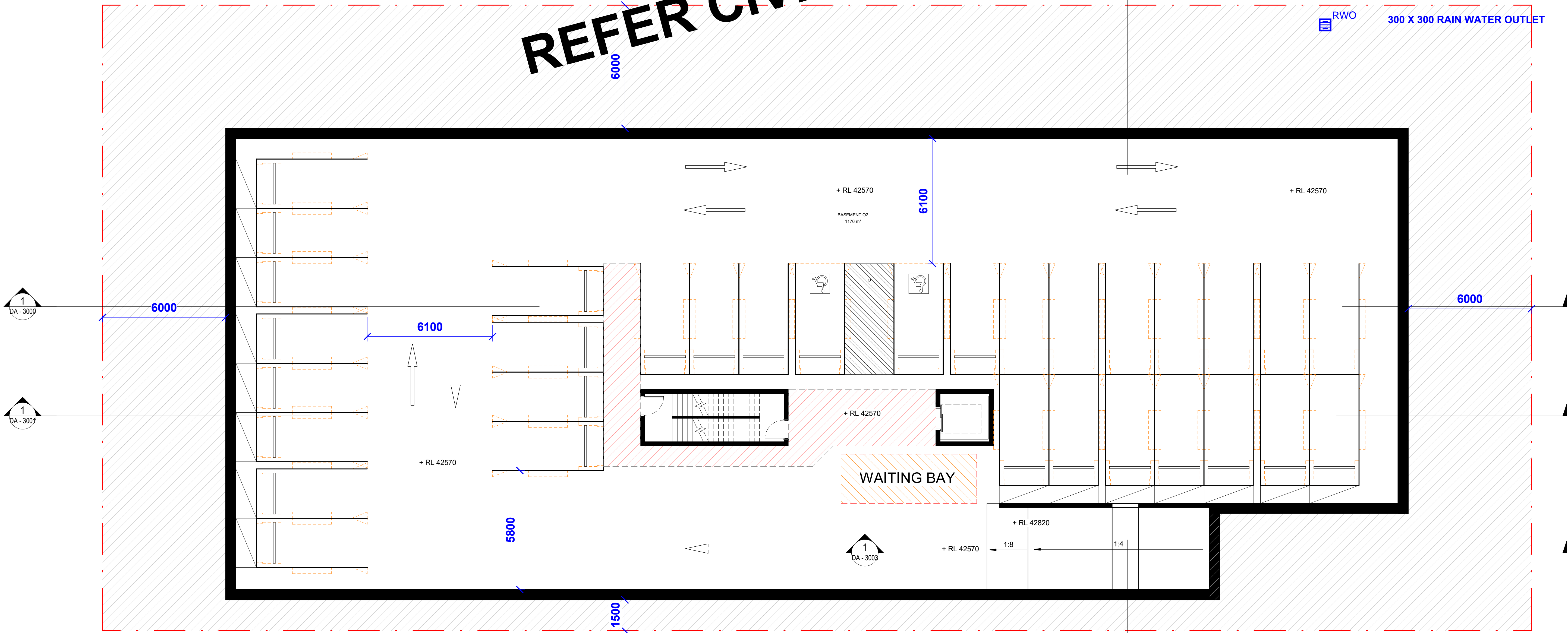
	ISSUED FOR DA			
	HYDRAULIC SERVICES			
NTS	CED_0001	HSK-000	A	
SCALE @ A3	PROJECT No	DRAWING No	REV	



LEGEND

- FIRE COLLAR
- 100mm RAINWATER OUTLET
- 50mm HORIZONTAL SPITTER
- 100mm DOWNPIPE
- 32mm HORIZONTAL CHANNELS
- 100mm X 50mm HORIZONTAL CHANNELS (OVERFLOW)
- PLANTER DRAIN
- 300 X 300 RAIN WATER OUTLET

REFER CIVIL DESIGN



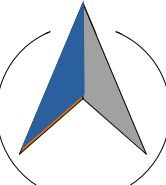
GA BASEMENT 02  
1 : 100

A B	ISSUED FOR DA APPROVAL	DMS	DMS	8/11/24
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ARCHITECT/CLIENT

115-117 DUTTON STREET YAGOONA NSW
PROJECT/TITLE

1  
DA-3002



ISSUED FOR DA

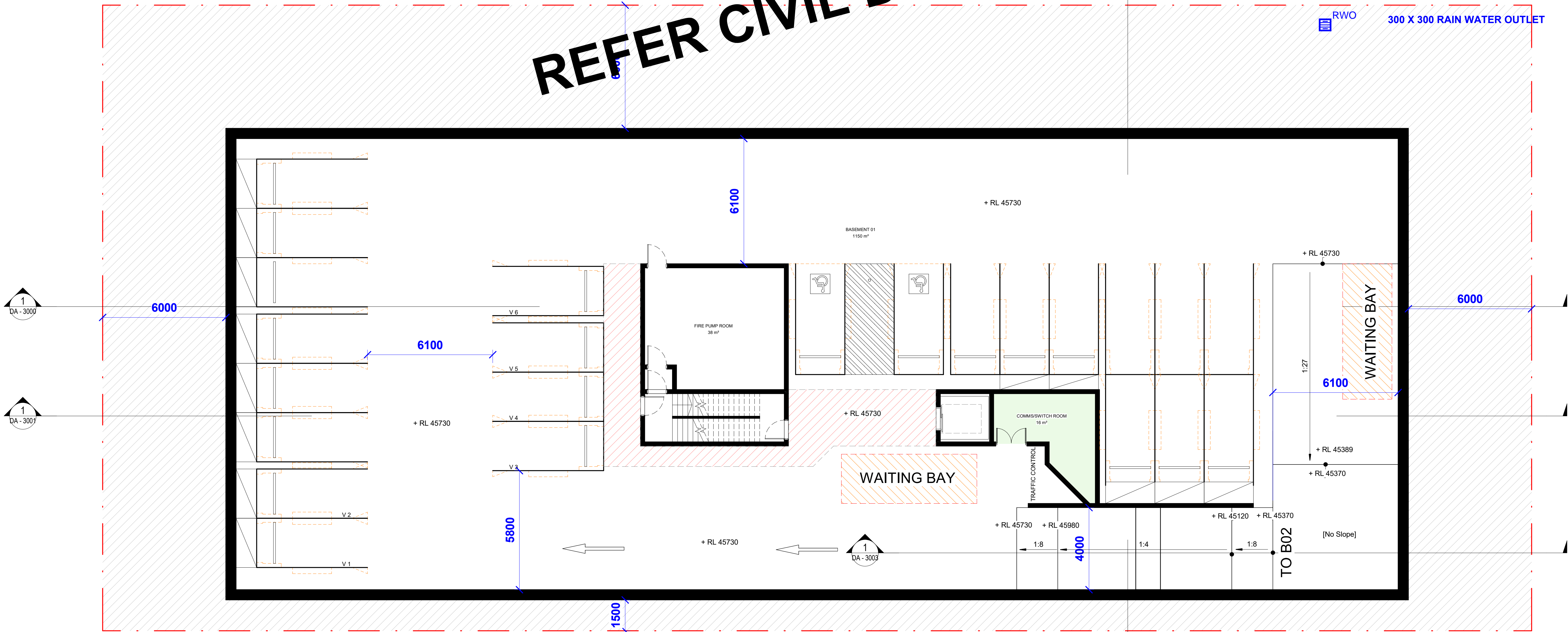
HYDRAULIC SERVICES

NTS	CED_0001	HSK-001	A
SCALE @ A3	PROJECT No	DRAWING No	REV

LEGEND

- FIRE COLLAR
- 100mm RAINWATER OUTLET
- 50mm HORIZONTAL SPITTER
- 100mm DOWNPIPE
- 32mm HORIZONTAL CHANNELS
- 100mm X 50mm HORIZONTAL CHANNELS (OVERFLOW)
- PLANTER DRAIN
- 300 X 300 RAIN WATER OUTLET

REFER CIVIL DESIGN



GA BASEMENT 01  
1 : 100

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CEDAR DESIGN & CONSTRUCT
ARCHITECT/CLIENT

115-117 DUTTON STREET YAGOONA NSW
PROJECT/TITLE

HYDRAULIC SOLUTIONS  
DAVID STEBLINA

ISSUED FOR DA

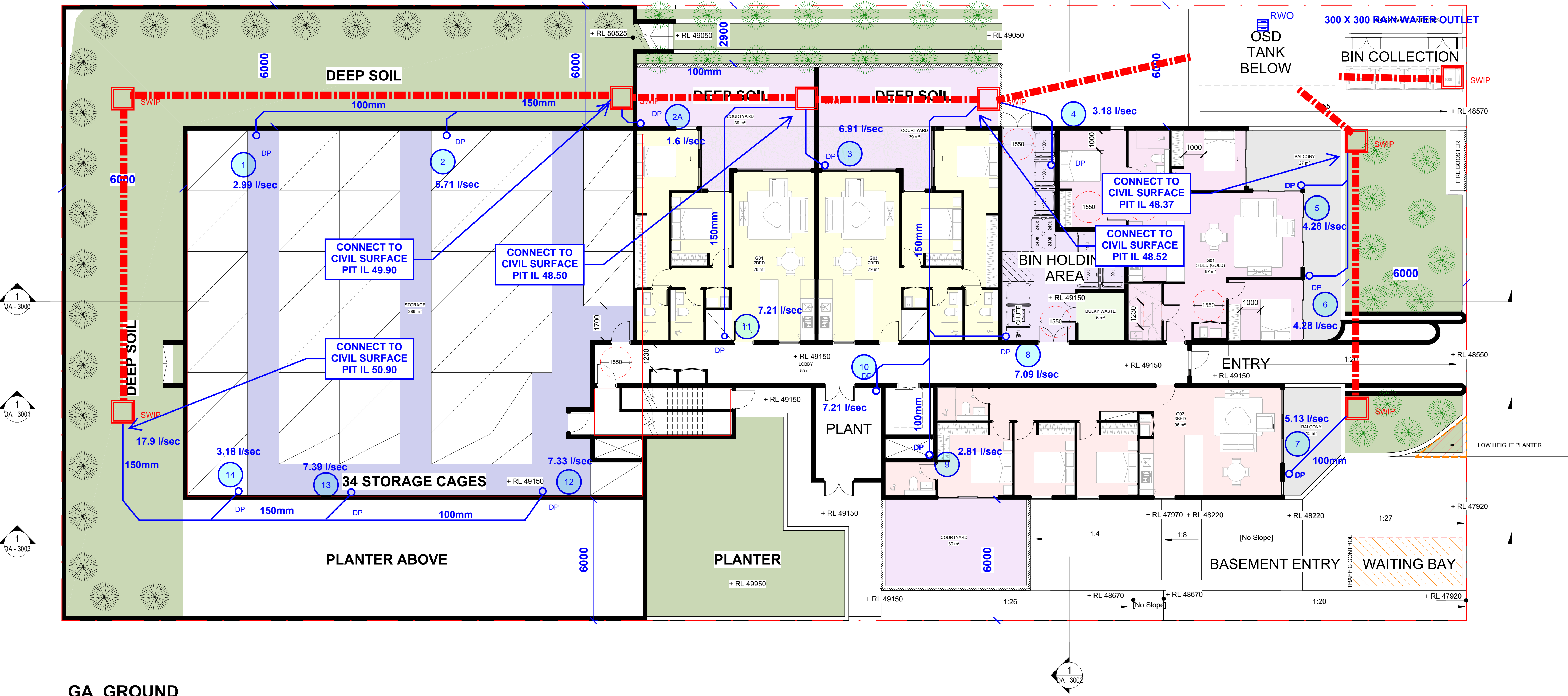
HYDRAULIC SERVICES

NTS	CED_0001	HSK-002	A
SCALE @ A3	PROJECT No	DRAWING No	REV



LEGEND

- || FIRE COLLAR
- RWO 100mm RAINWATER OUTLET
- || 50mm HORIZONTAL SPITTER
- 100mm DOWNPIPE
- || 32mm HORIZONTAL CHANNELS
- 100mm X 50mm HORIZONTAL CHANNELS (OVERFLOW)
- PD PLANTER DRAIN

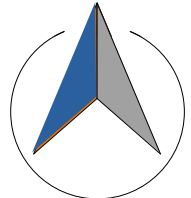


GA GROUND  
1 : 100

A B	ISSUED FOR DA APPROVAL	DMS	DMS	8/11/24
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PROJECT/TITLE



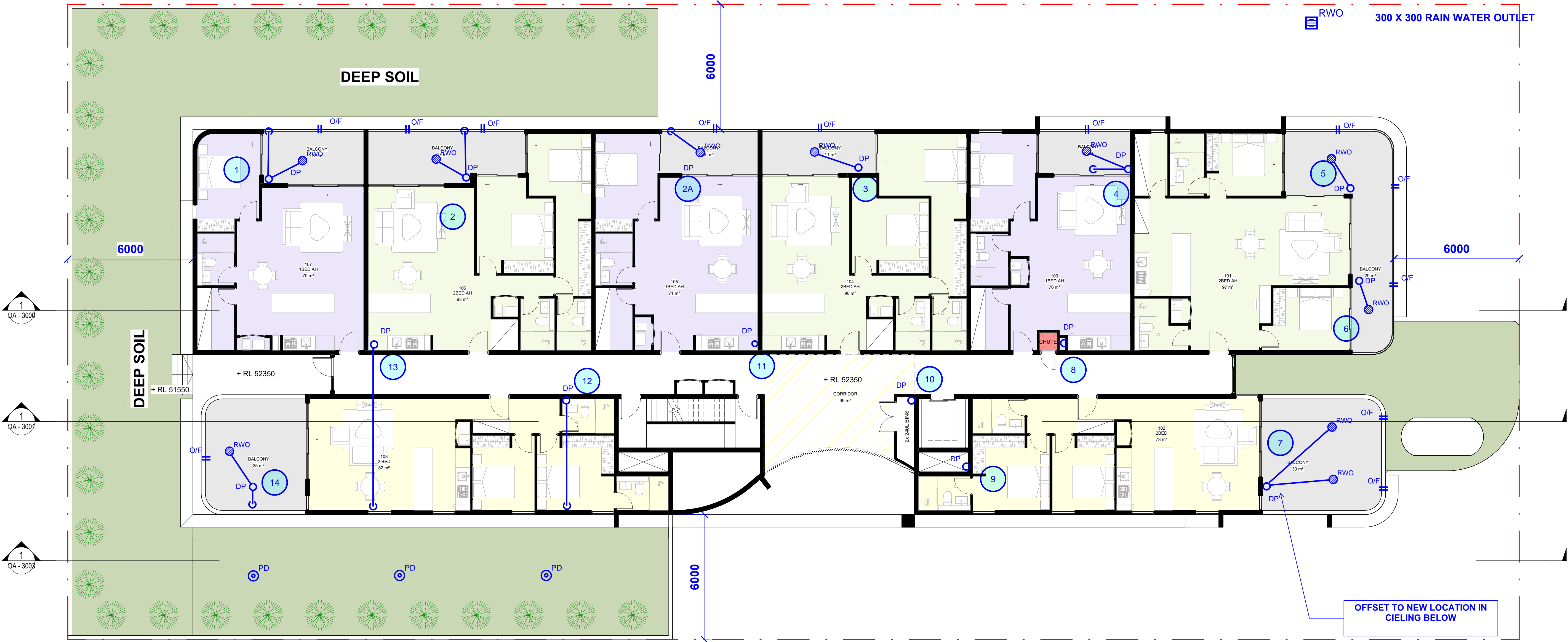
ISSUED FOR DA

HYDRAULIC SERVICES

NTS	CED_0001	HSK-003	A
SCALE @ A3	PROJECT No	DRAWING No	REV

LEGEND

- FIRE COLLAR
- 100mm RAINWATER OUTLET
- 50mm HORIZONTAL SPITTER
- 100mm DOWNPIPE
- 32mm HORIZONTAL CHANNELS
- 100mm X 50mm HORIZONTAL CHANNELS (OVERFLOW)
- PLANTER DRAIN
- 300 X 300 RAIN WATER OUTLET



GA LEVEL 01  
1 : 100

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ARCHITECT/CLIENT

115-117 DUTTON STREET YAGOONA NSW
PROJECT/TITLE

**HYDRAULIC SOLUTIONS**  
DAVID STEBLINA

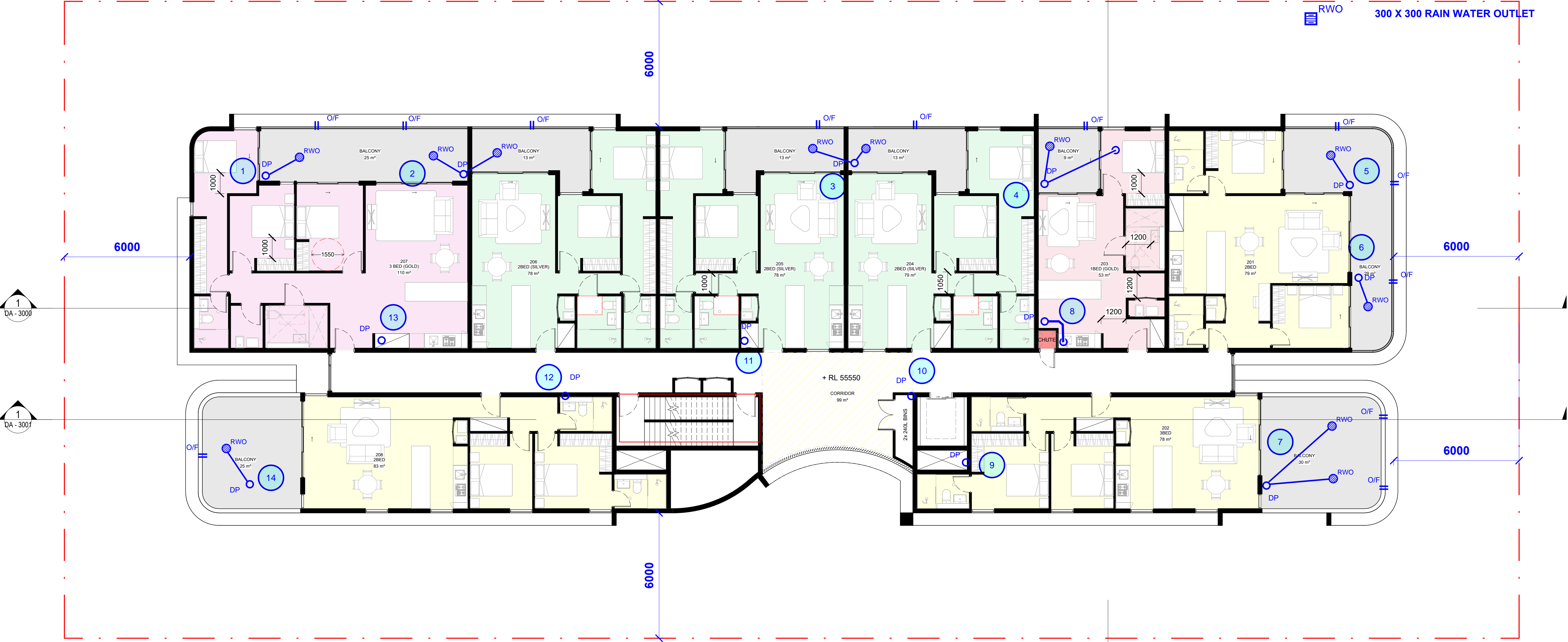
**ISSUED FOR DA**  
HYDRAULIC SERVICES

NTS	CED_0001	HSK-004	A
SCALE @ A3	PROJECT No	DRAWING No	REV



LEGEND

- FIRE COLLAR
- 100mm RAINWATER OUTLET
- 50mm HORIZONTAL SPITTER
- 100mm DOWNPIPE
- 32mm HORIZONTAL CHANNELS
- 100mm X 50mm HORIZONTAL CHANNELS (OVERFLOW)
- PLANTER DRAIN
- 300 X 300 RAIN WATER OUTLET



GA\_LEVEL 02  
1 : 100

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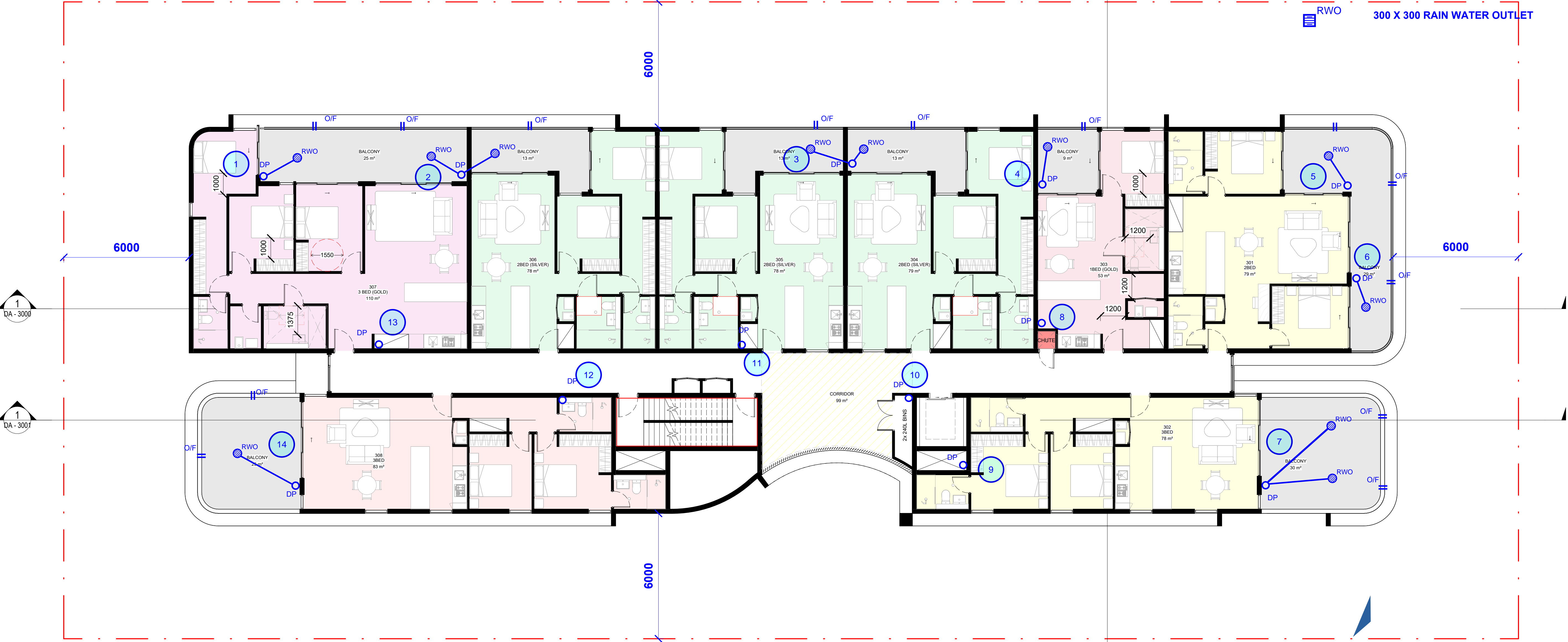
CEDAR DESIGN & CONSTRUCT
ARCHITECT/CLIENT

115-117 DUTTON STREET YAGOONA NSW
PROJECT/TITLE

		ISSUED FOR DA		
		HYDRAULIC SERVICES		
NTS	CED_0001	HSK-005	A	
SCALE @ A3	PROJECT No	DRAWING No	REV	

LEGEND

- FIRE COLLAR
- 100mm RAINWATER OUTLET
- 50mm HORIZONTAL SPITTER
- 100mm DOWNPIPE
- 32mm HORIZONTAL CHANNELS
- 100mm X 50mm HORIZONTAL CHANNELS (OVERFLOW)
- PLANTER DRAIN
- 300 X 300 RAIN WATER OUTLET



GA LEVEL 03  
1 : 100

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PROJECT NAME
CEDAR DESIGN & CONSTRUCT
ARCHITECT/CLIENT

SHEET NAME
115-117 DUTTON STREET YAGOONA NSW
PROJECT/TITLE

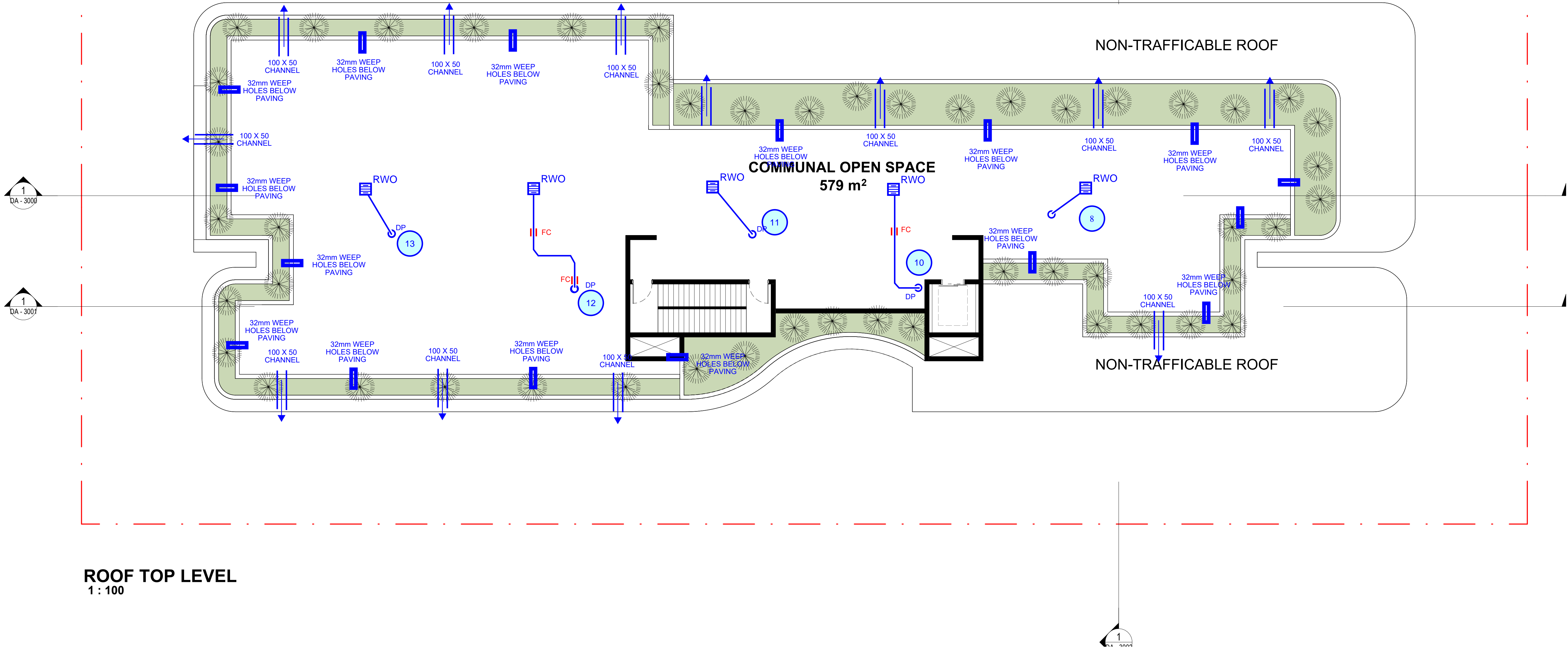
# ISSUED FOR DA

HYDRAULIC SERVICES

NTS	CED_0001	HSK-006	A
SCALE @ A3	PROJECT No	DRAWING No	REV

LEGEND

- || FIRE COLLAR
- RWO 100mm RAINWATER OUTLET
- || 50mm HORIZONTAL SPITTER
- 100mm DOWNPIPE
- 32mm HORIZONTAL CHANNELS
- 100mm X 50mm HORIZONTAL CHANNELS (OVERFLOW)
- PD PLANTER DRAIN
- RWO 300 X 300 RAIN WATER OUTLET



ROOF TOP LEVEL  
1 : 100

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115-117 DUTTON STREET YAGOONA NSW
PROJECT/TITLE

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		HYDRAULIC SERVICES		
NTS	CED_0001	HSK-007	A	
SCALE @ A3	PROJECT No	DRAWING No	REV	




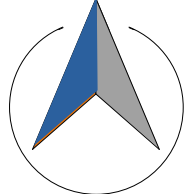
AREA AND CATCHMENT TABLE

	LEVEL	DP No:1	DP No:2	DP No:2A	DP No:3	DP No:4	DP No:5	DP No:6	DP No:7	DP No:8	DP No:9	DP No:10	DP No:11	DP No:12	DP No:13	DP No:14	CUMMULATIVE TOTALS
CATCHMENT AREA (m2)	ROOF	0	0	0	0	0	0	0	0	116	0	116	116	116	116	0	35.44
FLOW RATE (l/sec)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.09	0.00	7.09	7.09	7.09	7.09	0	
CUMMULATIVE FLOW RATE		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.09	0.00	7.09	7.09	7.09	7.09	7.09	
CATCHMENT AREA (m2)	04	12.5	25.5	0	50	25	25	25	45	0	45	0	0	0	0	13	51.70
FLOW RATE (l/sec)		0.76	1.56	0.00	3.06	1.53	1.53	1.53	2.75	0.00	2.75	0.00	0.00	0.00	0.00	0.79	
CUMMULATIVE FLOW RATE		0.76	1.56	0.00	3.06	1.53	1.53	1.53	2.75	7.09	2.75	7.09	7.09	7.09	7.09	7.09	
CATCHMENT AREA (m2)	03	12	25.5	0	26	9	15	15	13	0	0	0	0	0	0	13	59.55
FLOW RATE (l/sec)		0.73	1.56	0.00	1.59	0.55	0.92	0.92	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.79	
CUMMULATIVE FLOW RATE		1.50	3.12	0.00	4.64	2.08	2.44	2.44	3.54	7.09	2.75	7.09	7.09	7.09	7.09	7.09	
CATCHMENT AREA (m2)	02	12.5	25.5	0	26	9	15	15	13	0	0	0	0	0	0	13	67.44
FLOW RATE (l/sec)		0.76	1.56	0.00	1.59	0.55	0.92	0.92	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.79	
CUMMULATIVE FLOW RATE		2.26	4.68	0.00	6.23	2.63	3.36	3.36	4.34	7.09	2.75	7.09	7.09	7.09	7.09	7.09	
CATCHMENT AREA (m2)	01	12	17	19	11	9	15	15	13	0	1	2	3	4	5	13	75.93
FLOW RATE (l/sec)		0.73	1.04	1.16	0.67	0.55	0.92	0.92	0.79	0.00	0.06	0.12	0.18	0.24	0.31	0.79	
CUMMULATIVE FLOW RATE		2.99	5.71	1.16	6.91	3.18	4.28	4.28	5.13	7.09	2.81	7.21	7.27	7.33	7.39	7.39	

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CEDAR DESIGN & CONSTRUCT
ARCHITECT/CLIENT

115-117 DUTTON STREET YAGOONA NSW
PROJECT/TITLE

 HYDRAULIC SOLUTIONS DAVID STEBLINA					PRELIMINARY NOT FOR CONSTRUCTION HYDRAULIC SERVICES			
	NTS	CED_0001	HSK-008	A	SCALE @ A3	PROJECT No	DRAWING No	REV