

- BASEMENT SLAB TO HAVE 1% MIN. FALL TO INLET PIT AS PER AS2890 REQUIREMENT
- ALL BASEMENT PIT TO BE FITTED WITH HEAVY DUTY CLASS C GRATE & FRAME

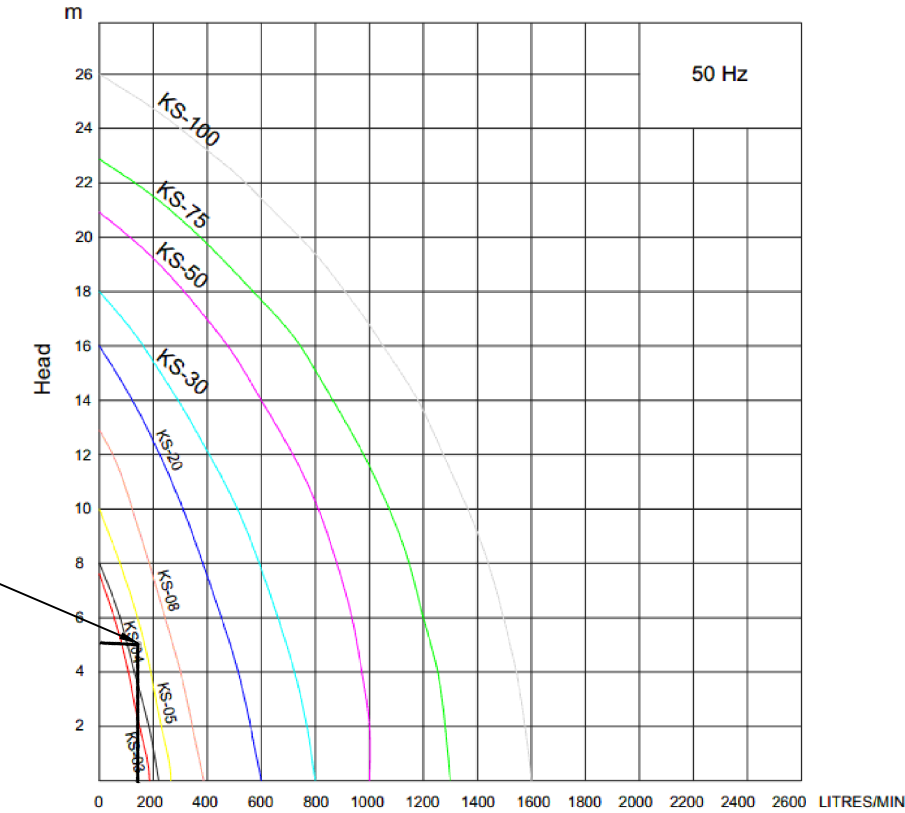
PUMP DESIGN SUMMARY

CATCHMENT AREA = 31 m² (DRIVEWAY RAMP)
1:100 ARI 2 hr STORM = 57 mm/hr
TOTAL STORAGE VOLUME REQUIRED = 1x 31 x 0.057 = 1.77 m³
VOLUME OF SEEPAGE:
SEEPAGE = 2.5ML/YEAR/Ha = 6.85 m³/Ha
 $V_{(SEEPAGE)} = \text{AREA} \times 6.85 \text{ m}^3 = 0.1384 \times 6.85 = 1.0 \text{ m}^3$
TOTAL VOLUME REQUIRED = 1.77 + 1.0 = 2.77 m³

TOTAL VOLUME PROVIDED = 4.5 m³

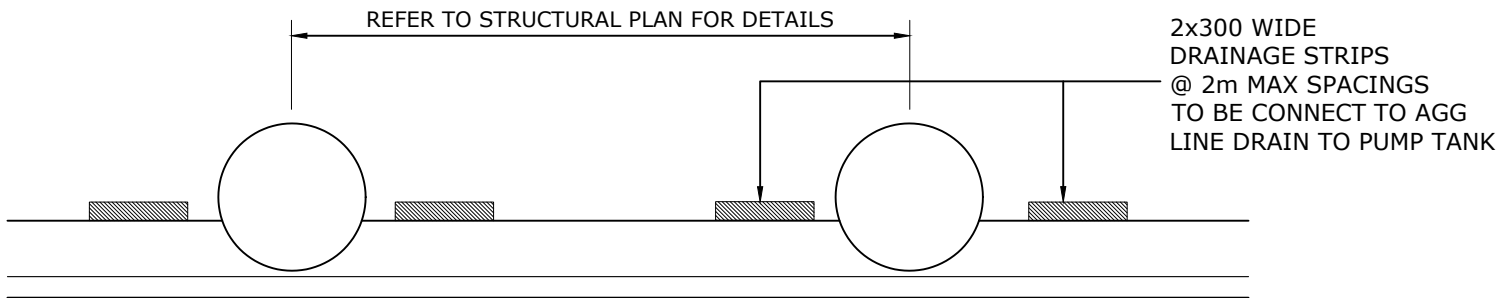
PUMP HEAD = 3.00 m
RAINFALL INTENSITY FOR CALCULATIONS = 100 YEAR ARI
STORM DURATION 5 MINUTE = 258 mm/h
PUMP RATE REQUIRED = (258 x 31) / 3600 = 2.22 L/s = 133 L/min
MAXIMUM DISCHARGE TO KERB = 5.0 L/s = 300 L/min

2 x SABRE KS-05 SUBMERSIBLE PUMPS



SABRE PUMP GRAPH & SPECIFICATION

MODEL NO.	OUTPUT		DISCHARGE		RATED		MAXIMUM		WEIGHT	DIMENSION
	HP	kW	mm	INCH	HEAD	CAPACITY	HEAD	CAPACITY		
KS-03	1/3	0.25	40	1 1/2"	3	130	8	180	9	188 X 141 X 305
KS-04	1/2	0.4	50	2"	5	150	8	220	11	208 X 140 X 359
KS-05	1/2	0.4	50	2"	5	160	10	260	14	230 X 156 X 375
KS-10	1	0.75	50 (80)	2 (3")	6	240	13	380	21	290 X 180 X 425
KS-20	2	1.5	80	3"	10	300	16	600	31	278 X 182 X 475
KS-30	3	2.2	80	3"	10	500	18	800	42	390 X 250 X 450
KS-50	5	3.7	100	4"	10	800	21	1100	48	450 X 240 X 530
KS-75	7.5	5.6	100	4"	15	800	23	1300	60	550 X 310 X 590
KS-100	10	7.5	150	6"	18	900	26	1600	70	550 X 310 X 610



SECTION - SHOTCRETE WALL DRAINAGE

SPOON DRAIN DETAILS

BASEMENT STORMWATER DRAINAGE PLAN

1:100 @ A1

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Rev.	Description	By.	App.	Date
A	ISSUED FOR APPROVAL	J.J.	M.A.	15.10.2024



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Client DG ELITE PTY LTD

Project 7-9 BANKSIA ROAD
GREENACRE NSW

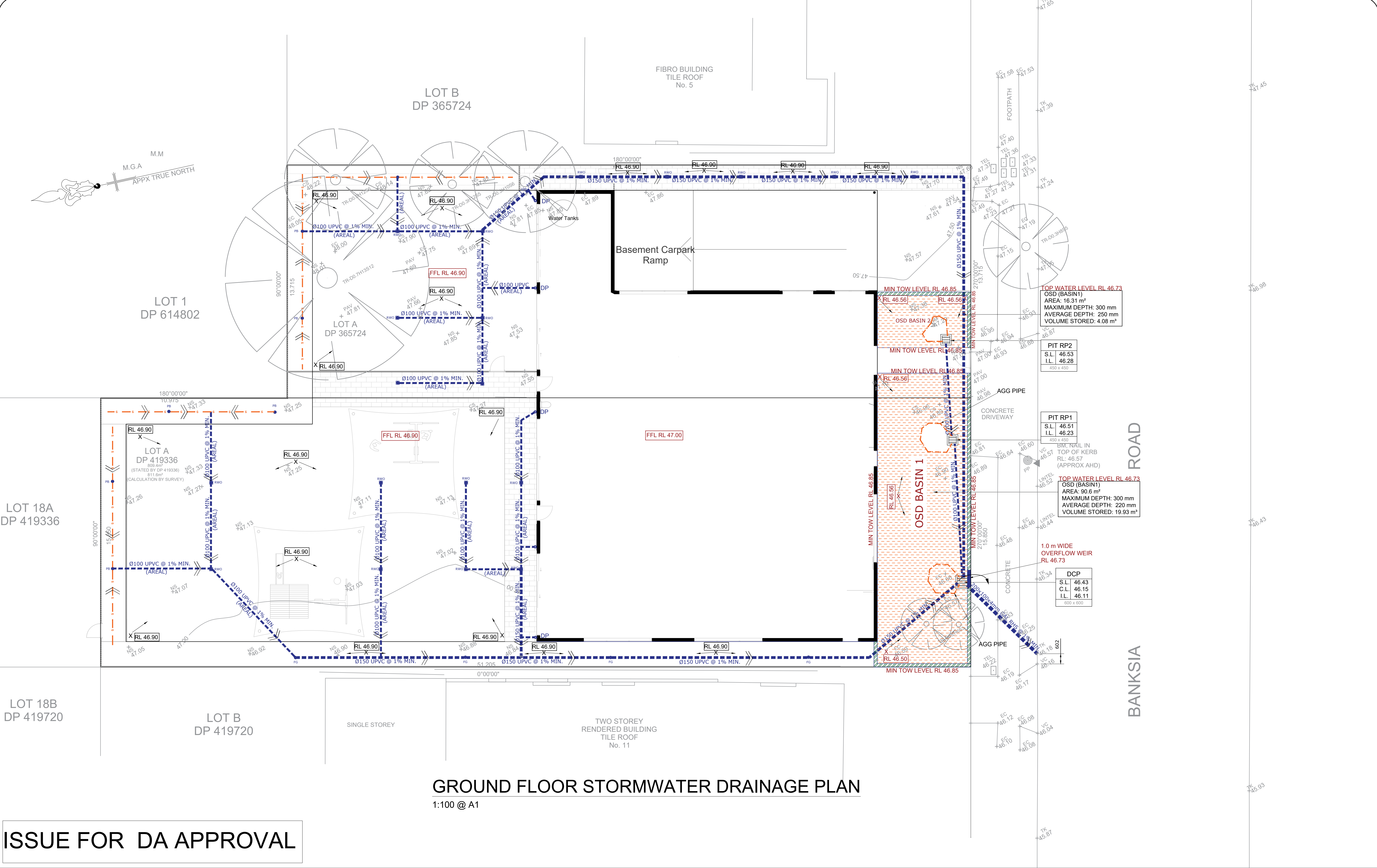
Title STORM WATER DRAINAGE
BASEMENT LEVEL PLAN

ISSUED FOR
APPROVAL

Project Number
24H337

Design Z.K.
Drawn M.K.

Drawing Number
SW 01



GROUND FLOOR STORMWATER DRAINAGE PLAN

1:100 @ A1

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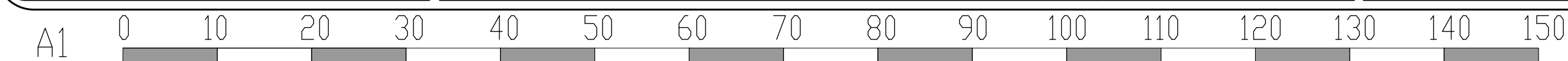


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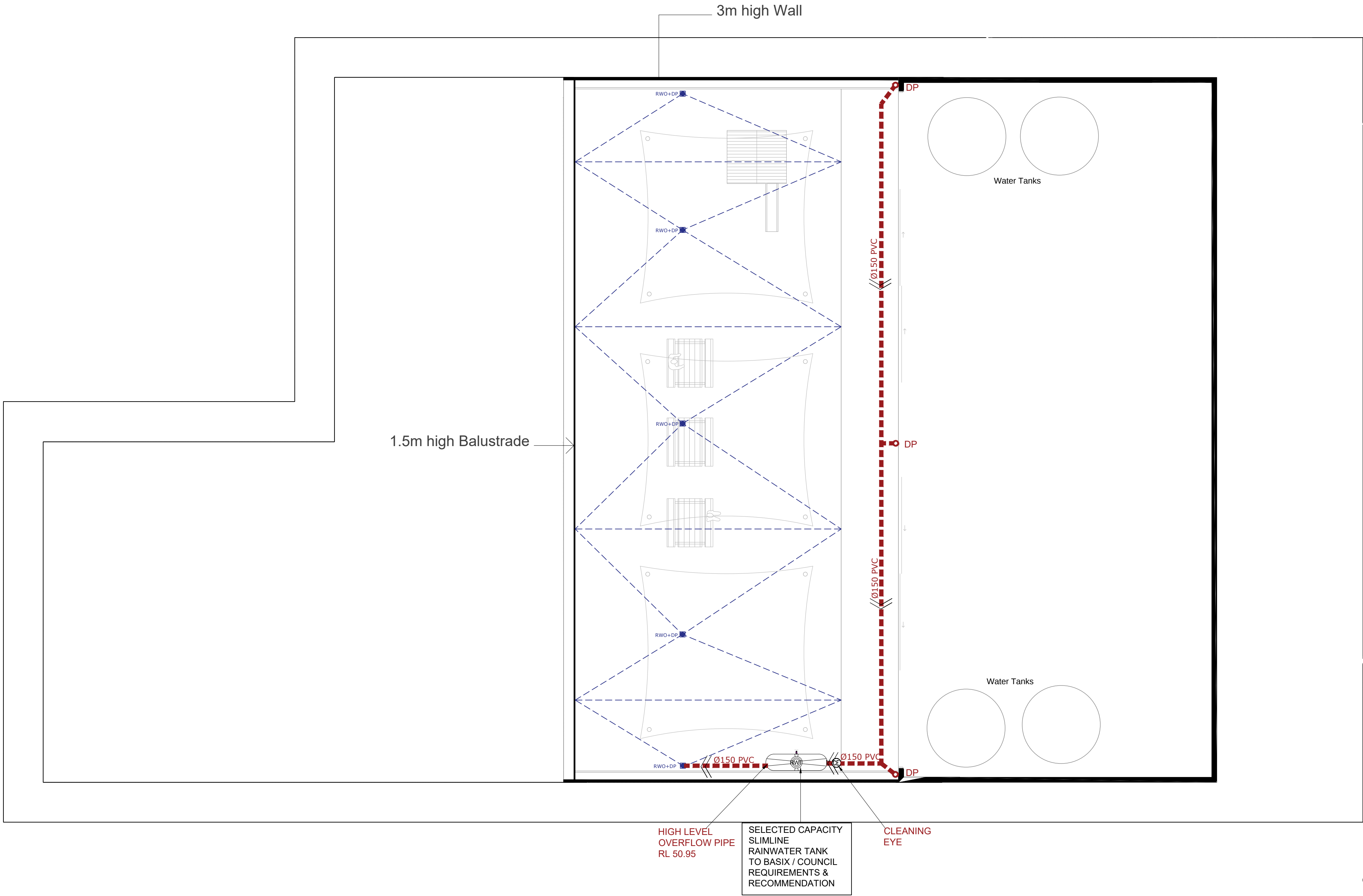
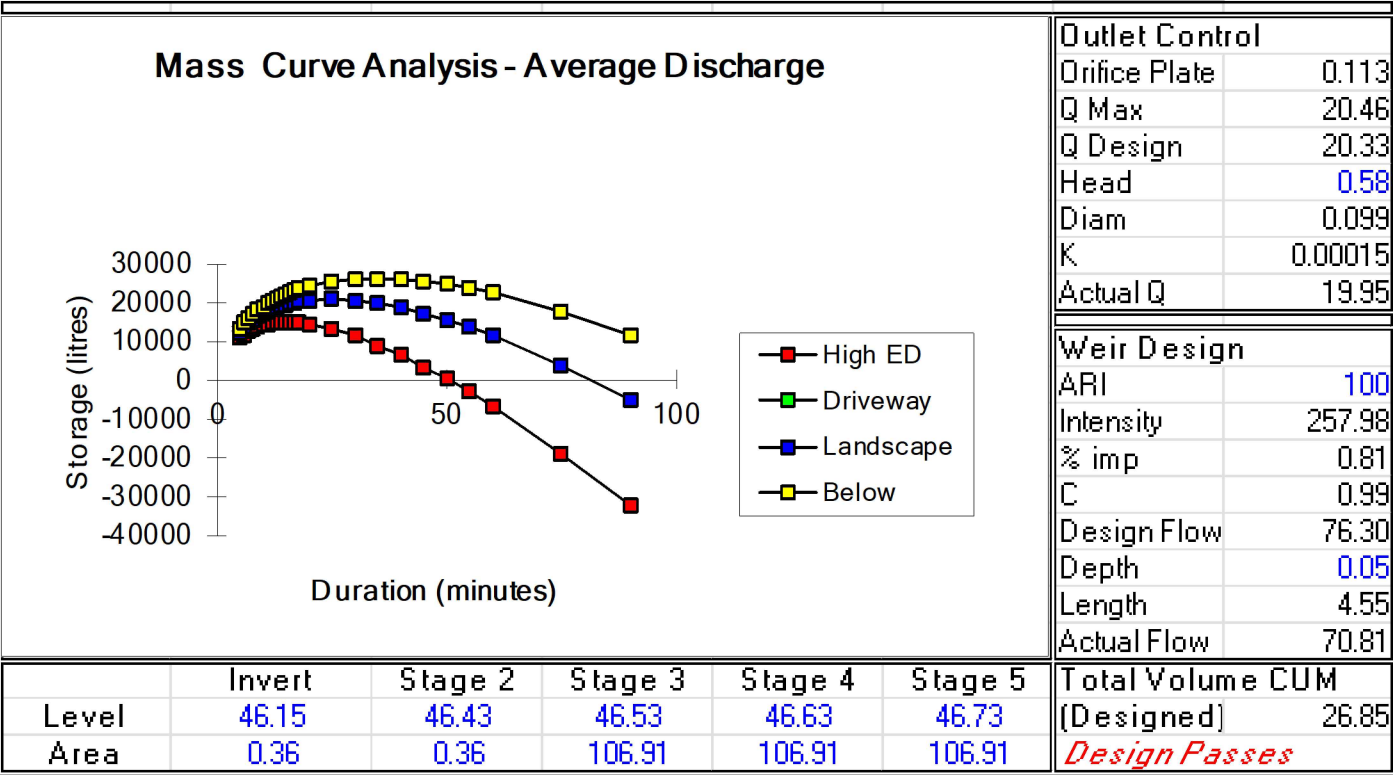
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Client	DG ELITE PTY LTD
Project	7-9 BANKSIA ROAD GREENACRE NSW

Title		STORM WATER DRAINAGE GROUND FLOOR PLAN	Design	Drawn
ISSUED FOR APPROVAL		Project Number 24H337	Drawing Number SW 02	

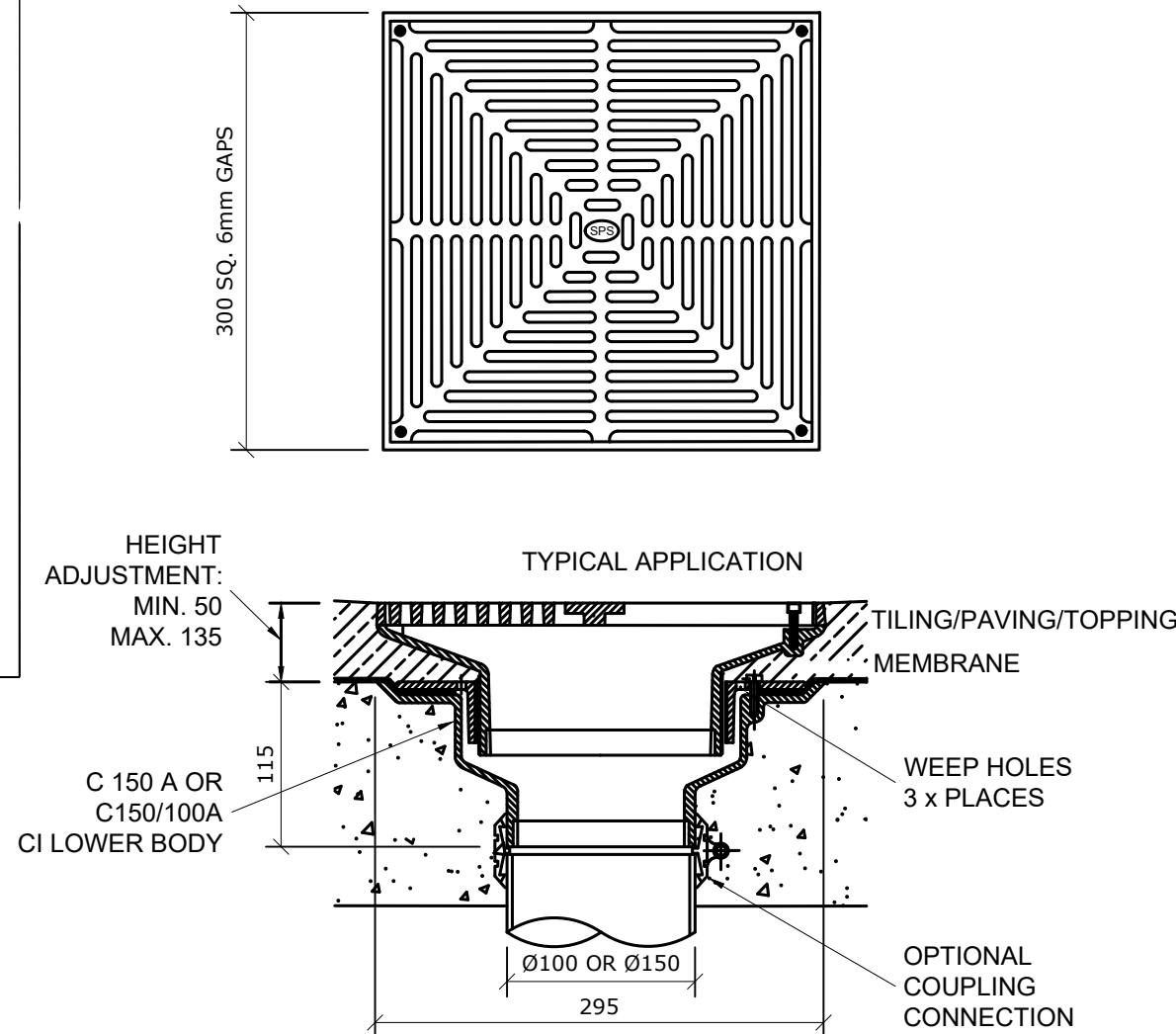


UBER ENGINEERING							
MASS CURVE ANALYSIS							
Designer: ZIA KHORRAM Phone: 0403 333 873				Fax: (02) 88504732			
SITE:	7-9 BANKSIA RD GREENACRE			STORM:	10 Year ARI		
Total Area	1364	A imp	1091	A imp by	20	Q HED	20.46
PSD l/s/h	150	A perv	273	A perv by	8	Q Driv	15.34
Q Max	20.46	% imp	0.80	% imp	0.71	Q Land	15.34
Max Head	0.58	C	0.82	C	0.78	Q Below	12.27
Duration mins	Intensity mm/hr	Runoff l	Leakage l	Storage HED l	Storage Driv. l	Storage Land. l	Storage Below. l
5	173.47	16482	316	10661	12195	12195	13115
6	163.20	18607	356	11599	13440	13440	14545
7	154.60	20565	394	12367	14515	14515	15803
8	147.24	22384	429	12993	15448	15448	16921
9	140.82	24084	461	13498	16260	16260	17917
10	135.15	25682	492	13900	16968	16968	18809
11	130.10	27195	521	14214	17589	17589	19615
12	125.54	28627	548	14446	18129	18129	20338
13	121.42	29995	575	14613	18602	18602	20996
14	117.65	31299	600	14715	19011	19011	21598
15	114.19	32549	623	14761	19364	19364	22125
16	111.00	33749	646	14756	19666	19666	22612
17	108.04	34902	669	14704	19921	19921	23051
18	105.29	36014	690	14610	20134	20134	23448
20	100.33	38131	730	14313	20450	20450	24132
25	90.28	42889	822	13025	20696	20696	25299
30	82.57	47071	902	11150	20356	20356	25879
35	76.41	50820	973	8833	19573	19573	26017
40	71.34	54226	1039	6168	18442	18442	25806
45	67.09	57370	1099	3235	17043	17043	25328
50	63.46	60295	1155	79	15422	15422	24628
55	60.31	63033	1207	-3268	13609	13609	23735
60	57.55	65616	1257	-6772	11639	11639	22686
75	50.09	71388	1367	-19301	3713	3713	17522
90	44.65	76362	1463	-32643	-5026	-5026	11544
120	37.16	84736	1623	-60931	-24108	-24108	-2015
180	28.59	97791	1873	-121271	-66037	-66037	-32897
240	23.72	108178	2072	-184331	-110685	-110685	-66498
300	20.53	117037	2242	-248947	-156891	-156891	-101657
Storage Required CUM				14.8	20.7	20.7	26.0



FIRST FLOOR STORMWATER DRAINAGE PLAN

1:100 @ A1



TYPICAL Ø300 INLET IN SUSPENDED SLAB

1:5
SPECIFICATION CODE:
Q300N2/ x C (NICKEL-BRONZE GRATE, CI LOWER BODY)
Q300S2/ x C (316 STAINLESS STEEL GRATE, CI LOWER BODY)

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A	ISSUED FOR APPROVAL	J.J.	M.A.	15.10.2024



Client DG ELITE PTY LTD

Project 7-9 BANKSIA ROAD
GREENACRE NSW

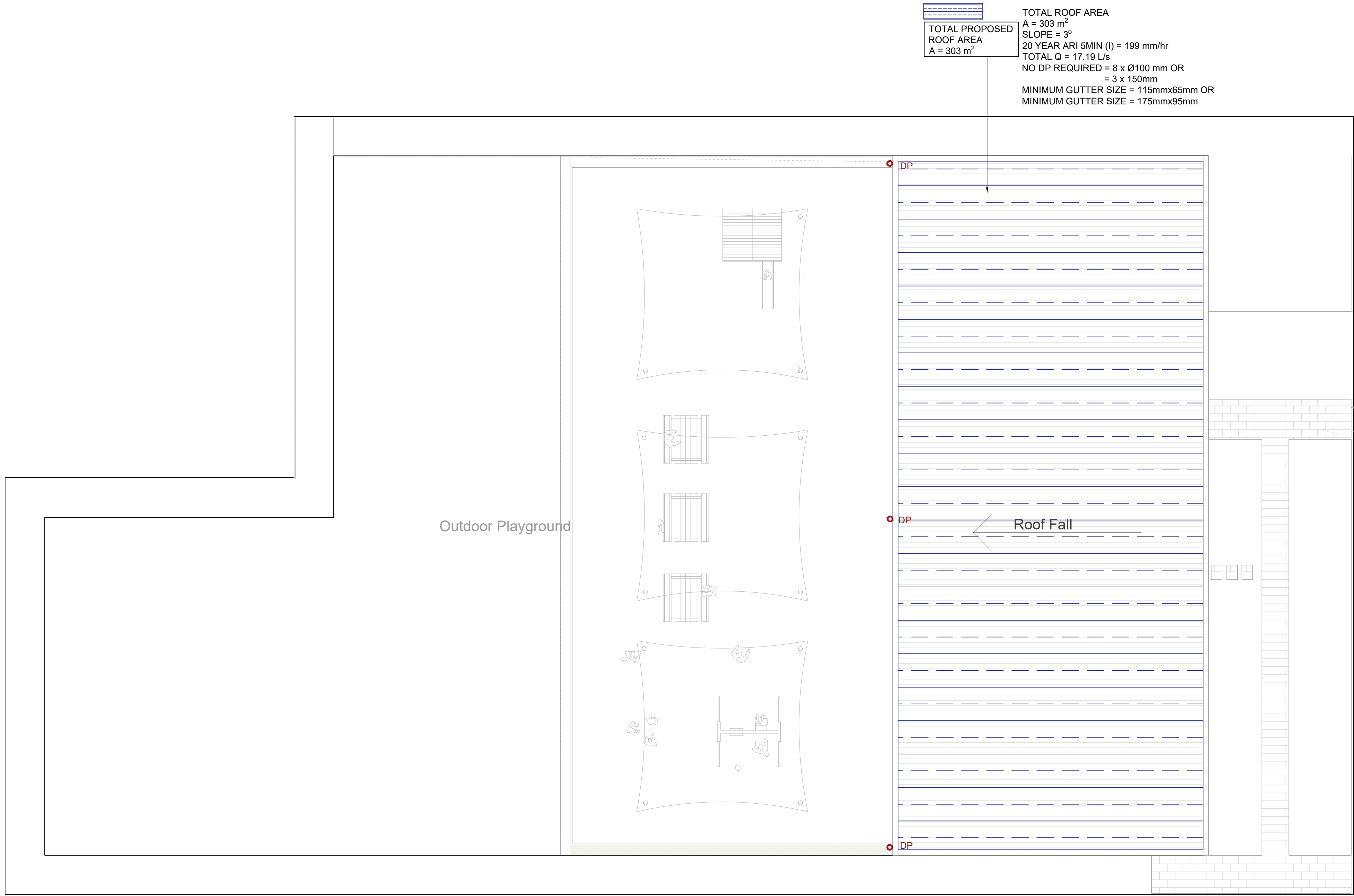
Title STORM WATER DRAINAGE
FIRST FLOOR PLAN

ISSUED FOR
APPROVAL

Project Number
24H337

Design Z.K.
Drawn M.K.

Drawing Number
SW 03



ROOF STORMWATER DRAINAGE PLAN
1:100 @ A1

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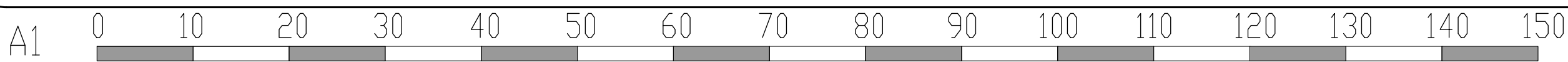
Rev.	Description	By.	App.	Date
A	ISSUED FOR APPROVAL	J.J.	M.A.	15.10.2024

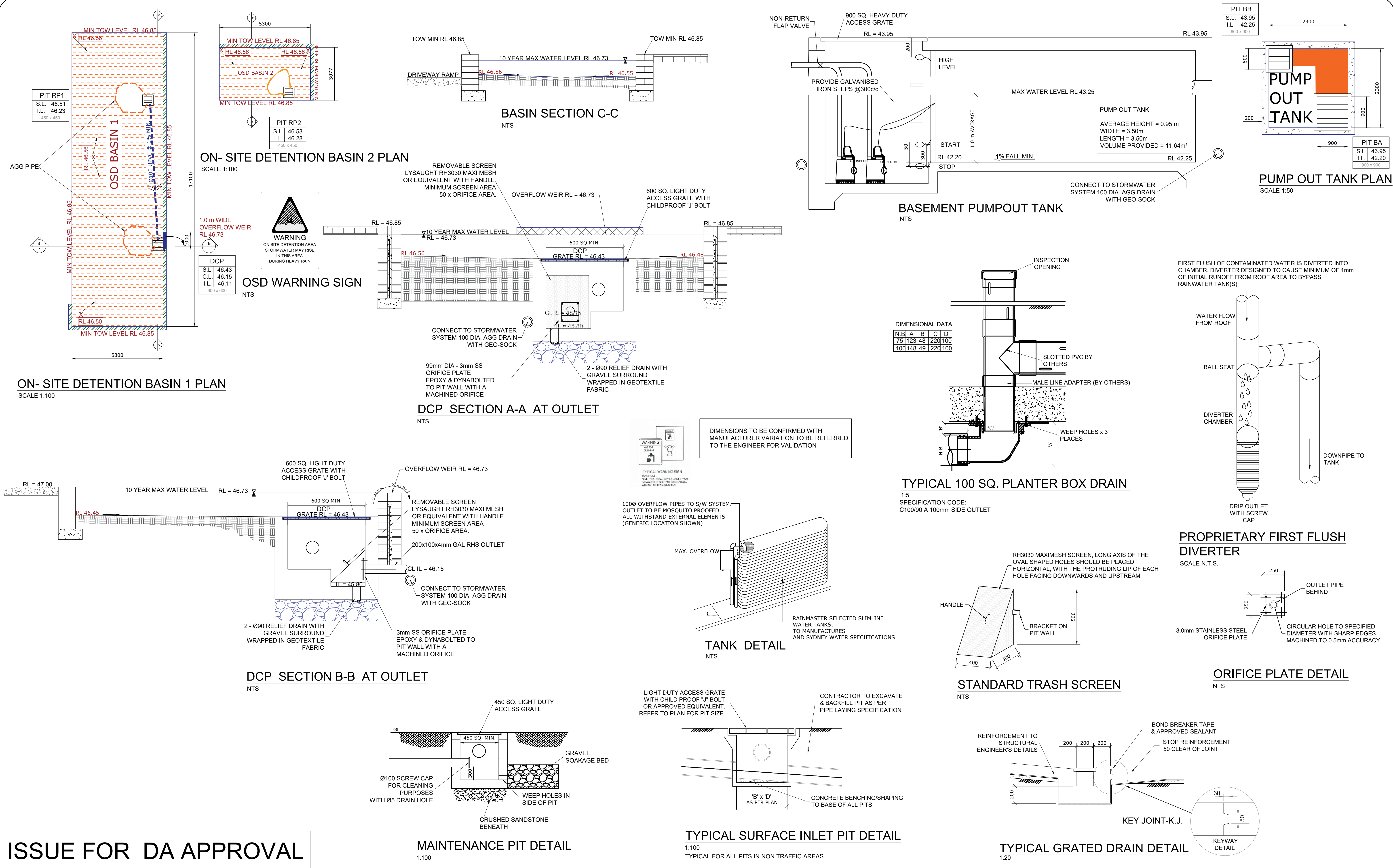
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Client	DG ELITE PTY LTD
Project	7-9 BANKSIA ROAD GREENACRE NSW

Title		STORM WATER DRAINAGE ROOF PLAN
ISSUED FOR	Project Number	Drawing Number
APPROVAL	24H337	SW 04

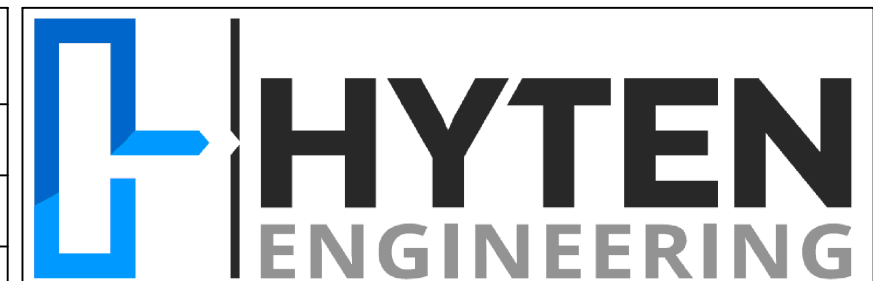
Design	Drawn
Z.K.	M.K.





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Client	DG ELITE PTY LTD
Project	7-9 BANKSIA ROAD GREENACRE NSW

Title	STORM WATER DRAINAGE DETAILS & SECTIONS	Design	Drawn
ISSUED FOR APPROVAL	Project Number 24H337	Z.K.	M.K.
	Drawing Number SW 05		

