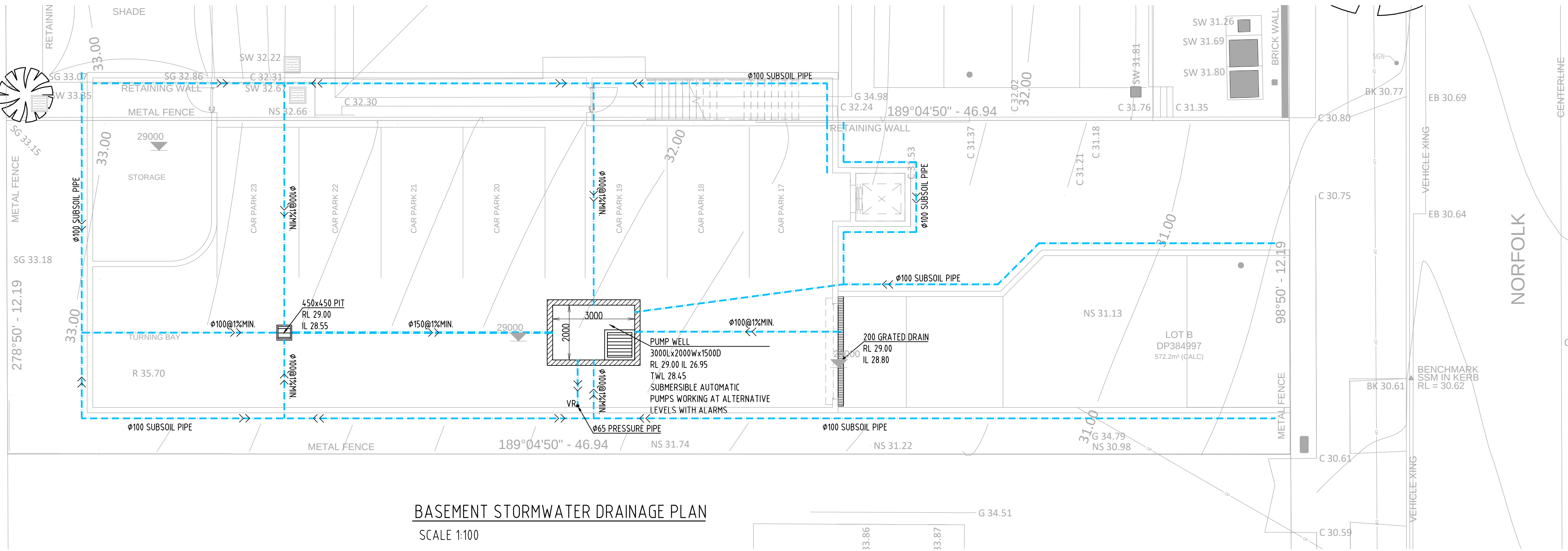
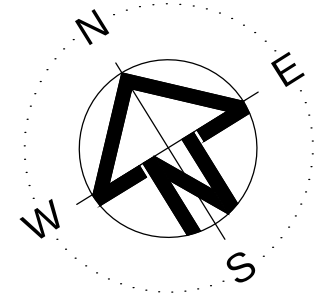




BASEMENT STORMWATER DRAINAGE PLAN
SCALE 1:100

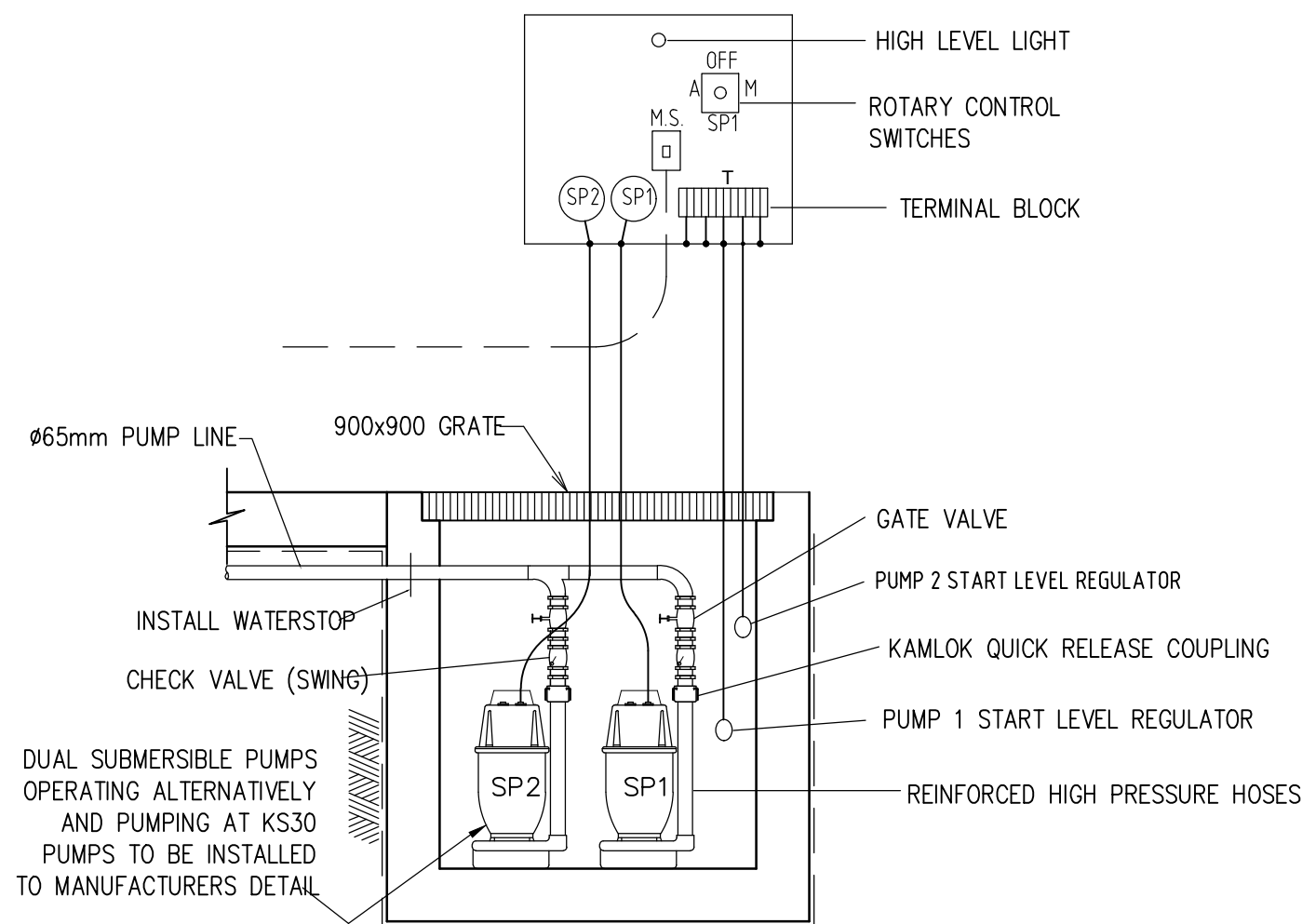
NOTE RE. SERVICES

APPROXIMATE LOCATIONS OF EXISTING SERVICES SHOWN ON LONGITUDINAL SECTION. EXACT LOCATIONS & DEPTHS TO BE ACCURATELY LOCATED BY THE BUILDING CONTRACTOR BY CONTACTING THE RELEVANT AUTHORITIES BEFORE COMMENCEMENT OF ANY WORKS

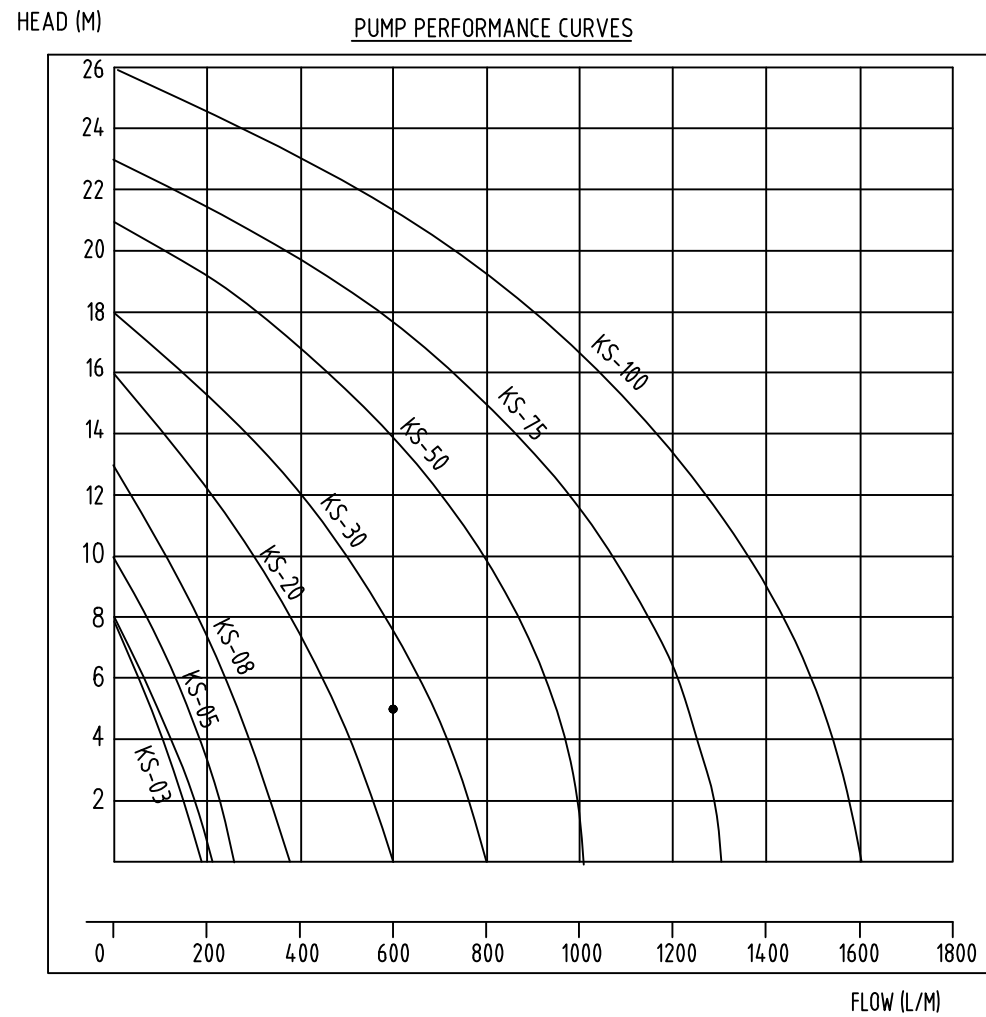


SYMBOLS

- | | |
|--------|-----------------------------------|
| F.F.L. | FINISHED FLOOR LEVEL |
| T.K. | TOP OF KERB |
| RL | PIT SURFACE LEVEL |
| IL | INVERT LEVEL |
| --- | STORMWATER DRAINAGE PIPE |
| --- | DOWNPIPE TO RAINWATER TANK |
| •DP | 100φ DOWN PIPE (U.N.O.) |
| •SP | SPREADER |
| •IE | INSPECTION EYE |
| RWH | RAINWATER HEAD |
| --- | MASONRY RETAINING WALL |
| ⊗FW | FLOOR WASTE 150φ |
| ⊗ | GRATED INLET PIT |
| ⊗ | GRATED DRAIN |
| ← | OVERLAND FLOW PATH |
| ES | EMERGENCY SPLITTER |
| •VD | VERTICAL DROP |
| •EDP | EXISTING 100φ DOWN PIPE (U.N.O.) |
| --- | EXISTING STORMWATER DRAINAGE PIPE |
| •VR | VERTICAL RISER |
| •CO | CLEAN OUT PIT |



BASEMENT PUMP WELL SECTION
N.T.S.



Type	Output		Outlet		Rated Head Capacity		Maximum Head Capacity		Weigh	Dimension		
	HP	kW	mm	Inch	M	LPM	M	LPM		L(mm)	W(mm)	H(mm)
KS-03	1/3	0.25	40	1 1/2"	3	130	8	180	9	188	141	305
KS-04	1/2	0.4	50	2"	5	150	8	220	11	208	140	359
KS-05	1/2	0.4	50	2"	5	160	10	260	14	230	156	375
KS-08	1	0.75	50	2"	6	240	13	380	21	290	180	425
KS-20	2	1.5	80	3"	10	300	16	600	31	278	182	475
KS-30	3	2.2	80	3"	10	500	18	800	42	390	250	450
KS-50	5	3.7	100	4"	10	800	21	1100	48	450	240	530
KS-75	7 1/2	5.6	100	4"	15	800	23	1300	60	550	310	590
KS-100	10	7.5	150	6"	18	900	25	1600	70	550	310	610

STANDARD PUMP OUT DESIGN NOTES

THE PUMP SHALL BE PROGRAMMED TO WORK ALTERNATIVELY SO AS TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP LIFE.

A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK, IN THIS REGARD, THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS.

A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE AND DRAIN THE TANK TO THE LEVEL OF THE LOW LEVEL FLOAT.

A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.

AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT AN A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE



HEIGHT 150mm

COLOURS: WIDTH 200mm

"DANGER" AND BACKGROUND WHITE
ELLIPTICAL AREA RED
RECTANGLE CONTAINING ELIPSE BLACK
OTHER LETTERING AND BORDER BLACK

MATERIALS POLYPROPYLENE
CONFINED SPACE WARNING SIGN
N.T.S.

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STRUCTURAL ENGINEERING
&
STORMWATER

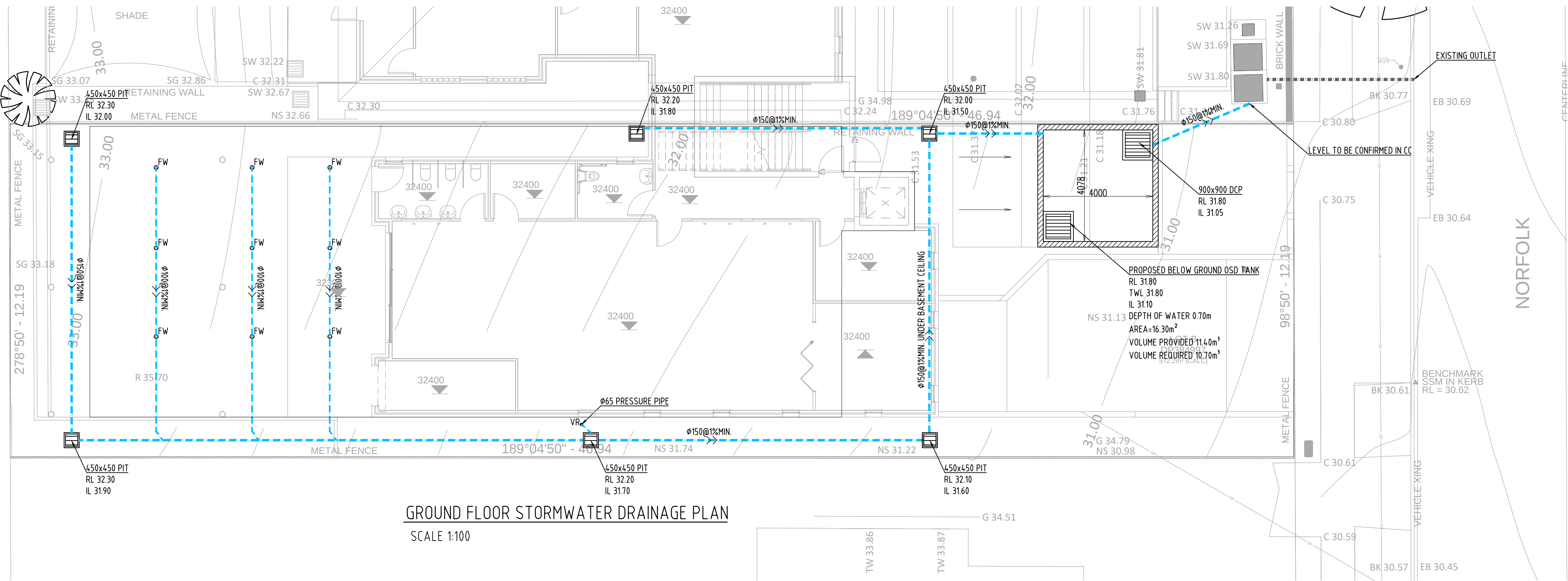
PROJECT **CHILDCARE DEVELOPMENT**
42-44 NORFOLK ROAD GREENACRE
NSW 2190

SUBJECT

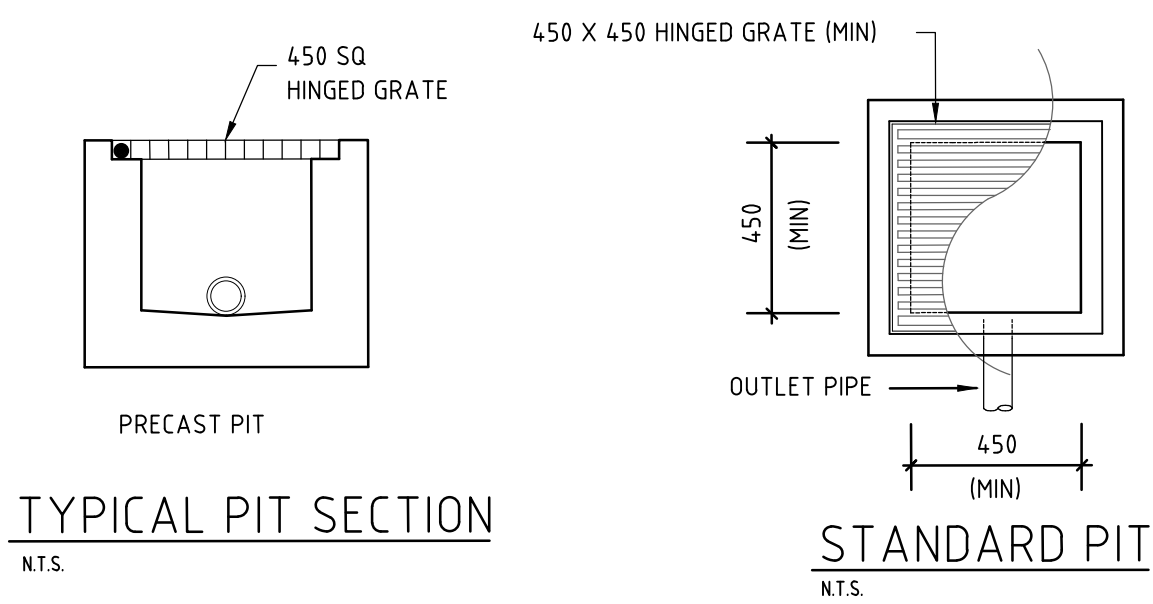
BASEMENT FLOOR PLAN

DESIGNED	M.D	DRAWN	N.A	AUTHORISED	M.D
CHECKED	M.D	SCALE : A1	NTS	DATE	SEP 2024
JOB NO.	PCE24125			DRAWING NO.	SW1

B	FOR DA APPROVAL	M.D	M.D	20.10.24
A	FOR DA APPROVAL	M.D	M.D	09.09.24
ISSUE	AMENDMENT	ENG.	DRA.	DATE

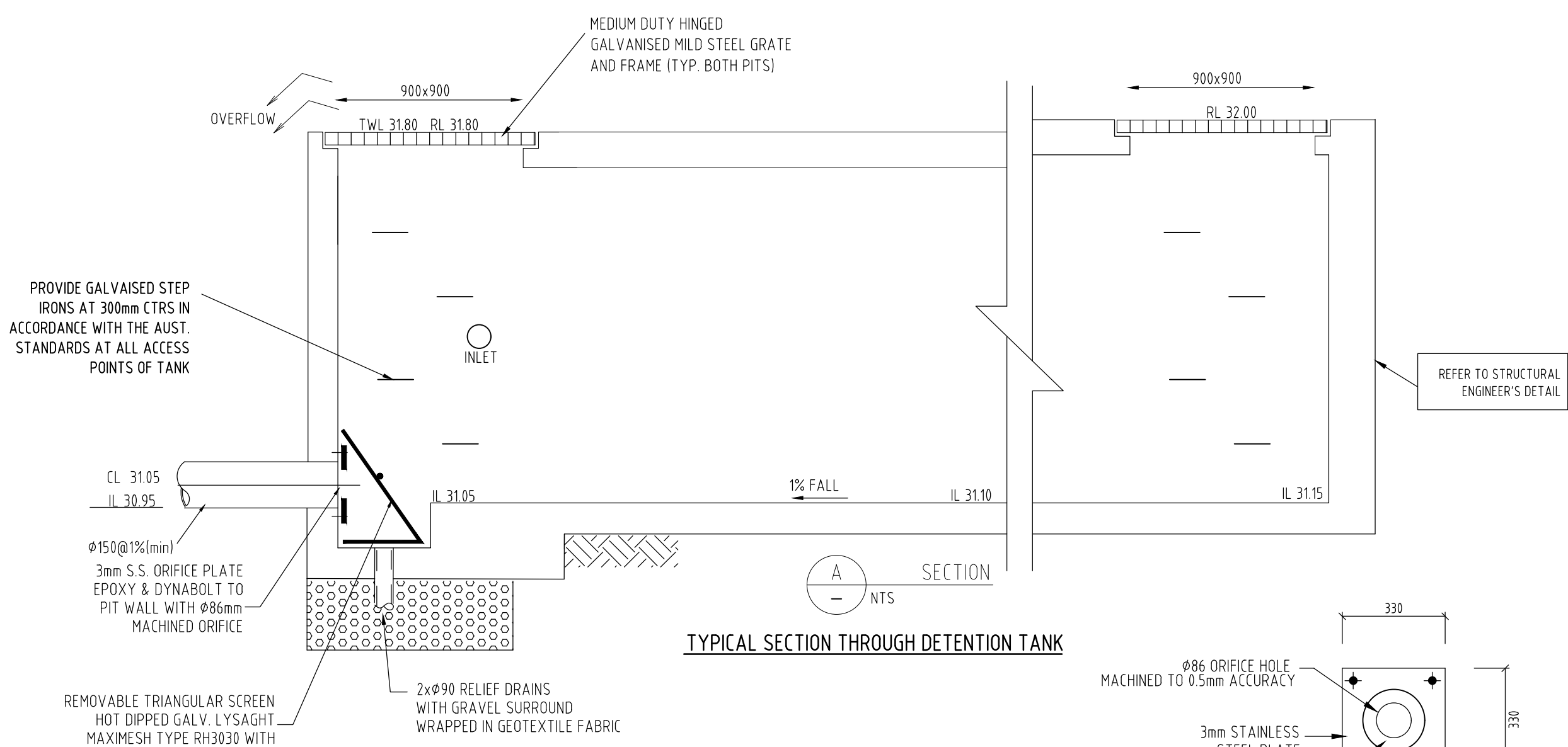


GROUND FLOOR STORMWATER DRAINAGE PLAN
SCALE 1:100

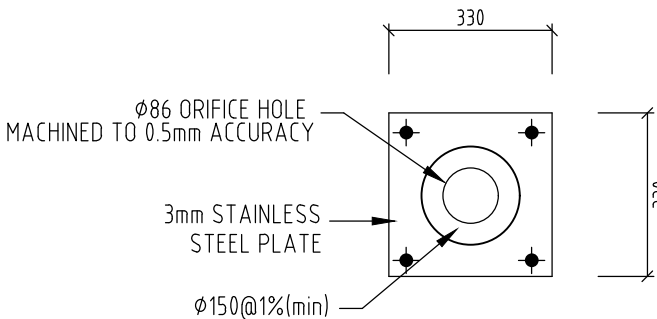


TYPICAL PIT SECTION
NTS

STANDARD PIT
NTS



TYPICAL SECTION THROUGH DETENTION TANK



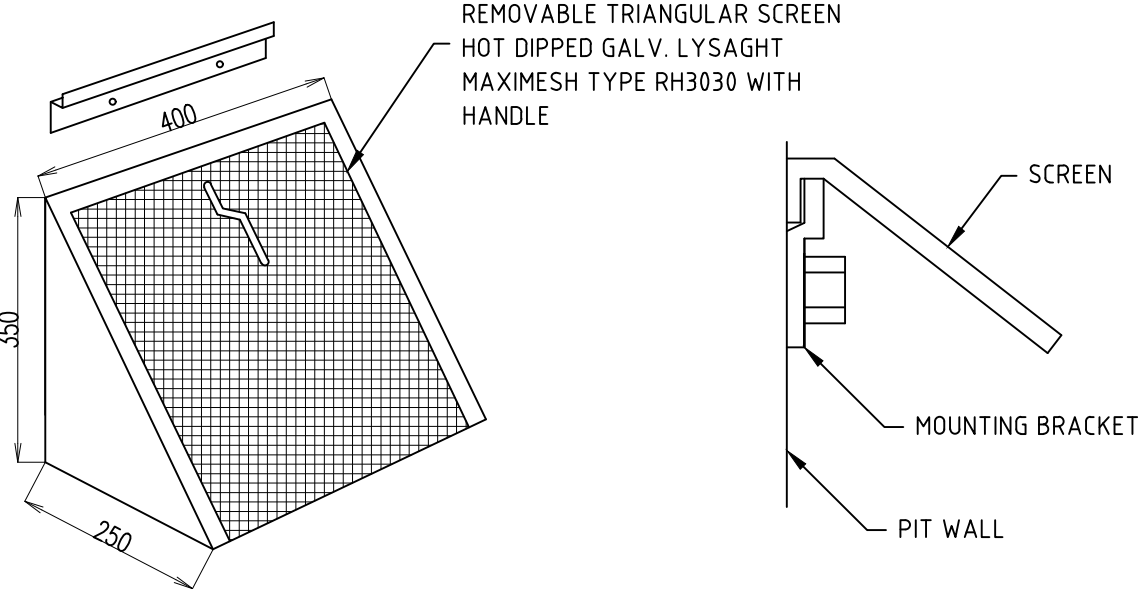
TYPICAL ORIFICE PLATE ELEVATION
NTS



OSD SIGN
NTS



DETAIL - CONFINED SPACE SIGN
NTS



MULTI PURPOSE FILTER SCREEN
NTS

SYMBOLS	
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---	EXISTING STORMWATER DRAINAGE PIPE
•VR	VERTICAL RISER
•CO	CLEAN OUT PIT

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STRUCTURAL ENGINEERING
&
STORMWATER

PROJECT **CHILDCARE DEVELOPMENT**
42-44 NORFOLK ROAD GREENACRE
NSW 2190

SUBJECT

GROUND FLOOR PLAN

DESIGNED	M.D	DRAWN	N.A	AUTHORISED	M.D
CHECKED	M.D	SCALE : A1	NTS	DATE	SEP 2024
JOB NO.	PCE24125			DRAWING NO.	SW2

B	FOR DA APPROVAL	M.D	M.D	20.10.24
A	FOR DA APPROVAL	M.D	M.D	09.09.24
ISSUE	AMENDMENT	ENG.	DRA.	DATE