

-----STW-----	STORMWATER
---◆---SS---◆---	SUBSOIL
-----DP-----	DOWNPIPE
.....RD.....	ROOF DRAINAGE
-----	EXISTING SERVICE
---X---X---X---X---	EXISTING SERVICE TO BE DISCONNECTED AND REMOVED

	R	RISER
	D	DROPPER
	COF	CAPPED OFF
	HP	HORIZONTAL PENETRATION
	DOF	DIRECTION OF FLOW
	NC	NEW CONNECTION
	C	CONTINUATION
	MH	MAN HOLE
	IO	INSPECTION OPENING
	STWKIP	STORMWATER KERB INLET PIT
	STWIP	STORMWATER INLET PIT
	GRD	GRATED DRAIN
	SO	SAFETY OVERFLOW
	SP	SPREADER
	RWO	RAINWATER OUTLET
	BRWO	BALCONY RAINWATER OUTLET
	PRWO	PLANTER RAINWATER OUTLET
	SRWO	SPOON DRAIN RAINWATER OUTLET

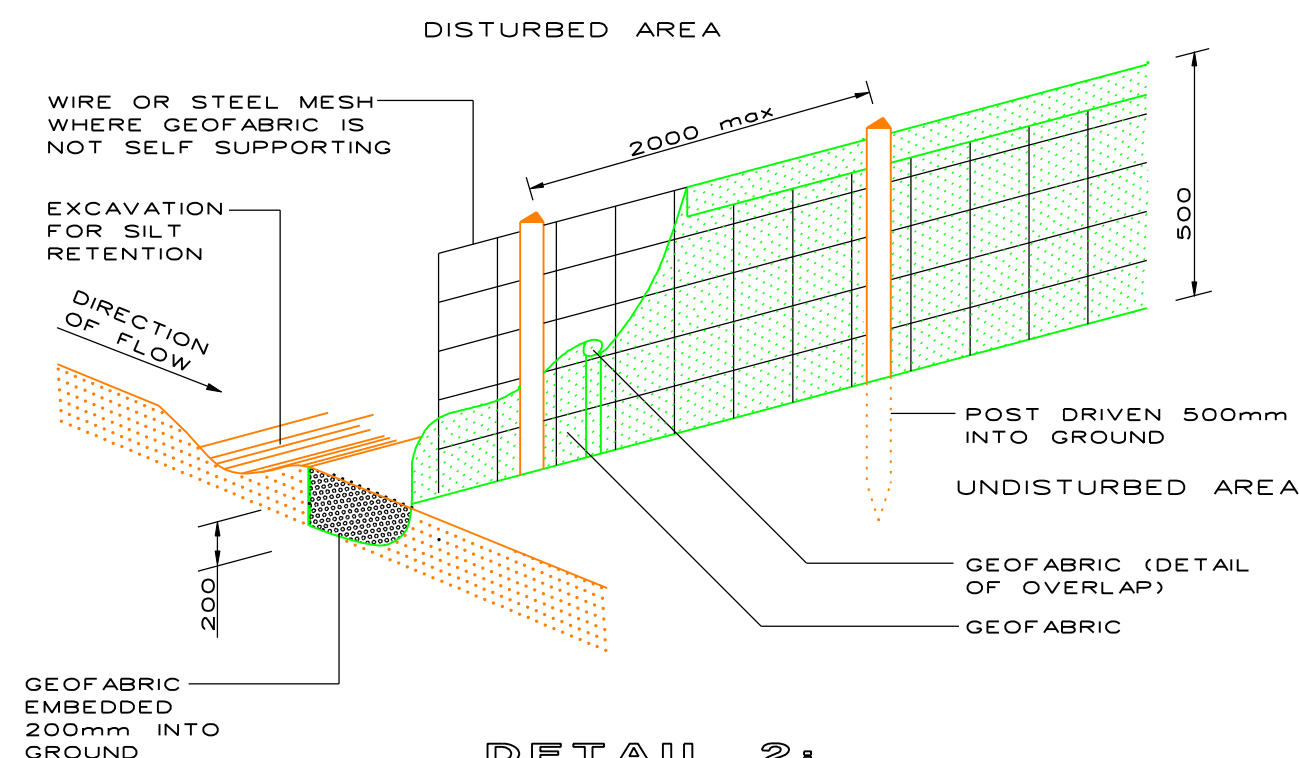
FFL	FINISH FLOOR LEVEL
IL	INVERT LEVEL
RL	REDUCED LEVEL
UPVC	UNPLASTICIZED POLYVINYL CHLORIDE
NTS	NOT TO SCALE
UNO	UNLESS NOTED OTHERWISE
sq	SQUARE
mm	MILLIMETRES
m	METRES
m2	SQUARE METRES
m3	CUBIC METRES
/sec	PER SECOND
MIN	MINIMUM
MAX	MAXIMUM
APPR	APPROXIMATLY
DIA	DIAMETER
EX	EXISTING
AHD	AUSTRALIAN HEIGHT DATUM

ALL IN ACCORDANCE WITH COUNCIL'S
STORMWATER REQUIREMENTS

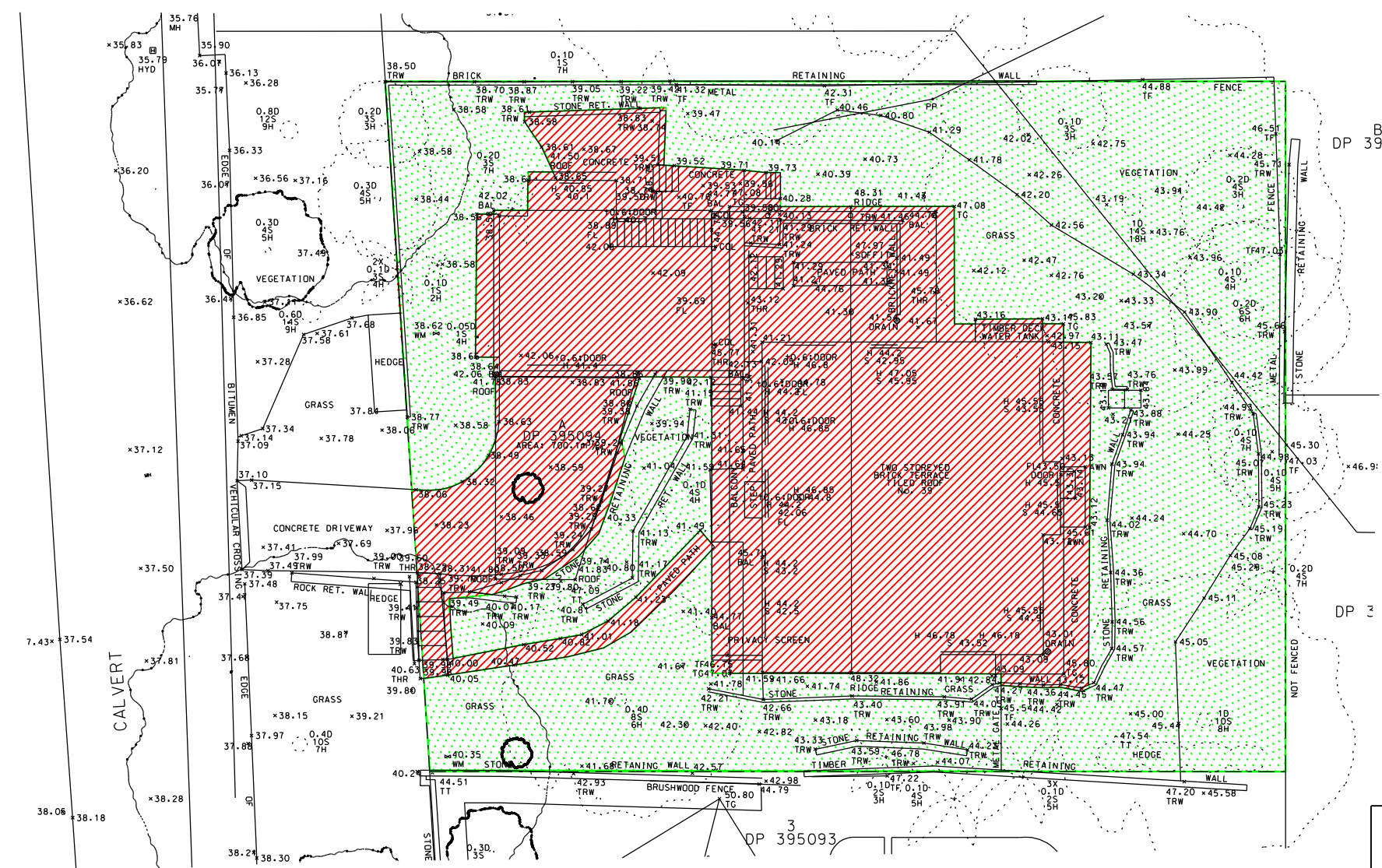
PIPEWORK
ALL PIPEWORK TO BE 100mm Ø 1% FALL (UNO)



MINIMUM INTERNAL MEASUREMENTS:				
DEPTH TO BASE OF CHAMBER	RECTANGULAR		CIRCULAR	LADDER / STEP IRON
	WIDTH	LENGTH		
SMALLER THAN 600	450	450	600	NO
601 TO 900	600	600	900	NO
901 TO 1200	600	900	1050	NO
GREATER THAN 1200	900	900	1050	YES

INSTALL AS REQUIRED
TO SUIT CONSTRUCTION
PROGRESS



DETAIL 2:
SILT FENCE
NTS



SYMBOL	CATCHMENT	IMPERVIOUS AREA	PERVIOUS AREA	PERCENTAGE
	ROOF AND PAVED AREAS	300.6m2	-	42.9%
	DEEPSOIL LANDSCAPING	-	399.5m2	57.1%
TOTAL		700.1m2		100%

PRE DEVELOPED
CATCHMENT AREAS

Table 7 Requirements for Size and Allowable Discharge from On-Site Detention Systems

Additional Hard (Impervious) Surface Area (square metres)	Minimum Capacity of On-Site Detention Tank (Litres)	Discharge Rate Litres/Sec
0 - 50	Nil	Nil
>= 50 - 75	4,500	2
>75 - 100	6,000	3
>100 - 150	9,000	4
>150 - 200	12,000	6
>200 - 250	15,000	7
>250 - 300	18,000	8
>300 - 400	24,000	12
>400 - 500	30,000	15
>500 - 600	36,000	18
>600 - 700	42,000	21
>700 - 800	48,000	24
>800 - 900	54,000	27
>900 - 1,000	60,000	30
>1,000*		

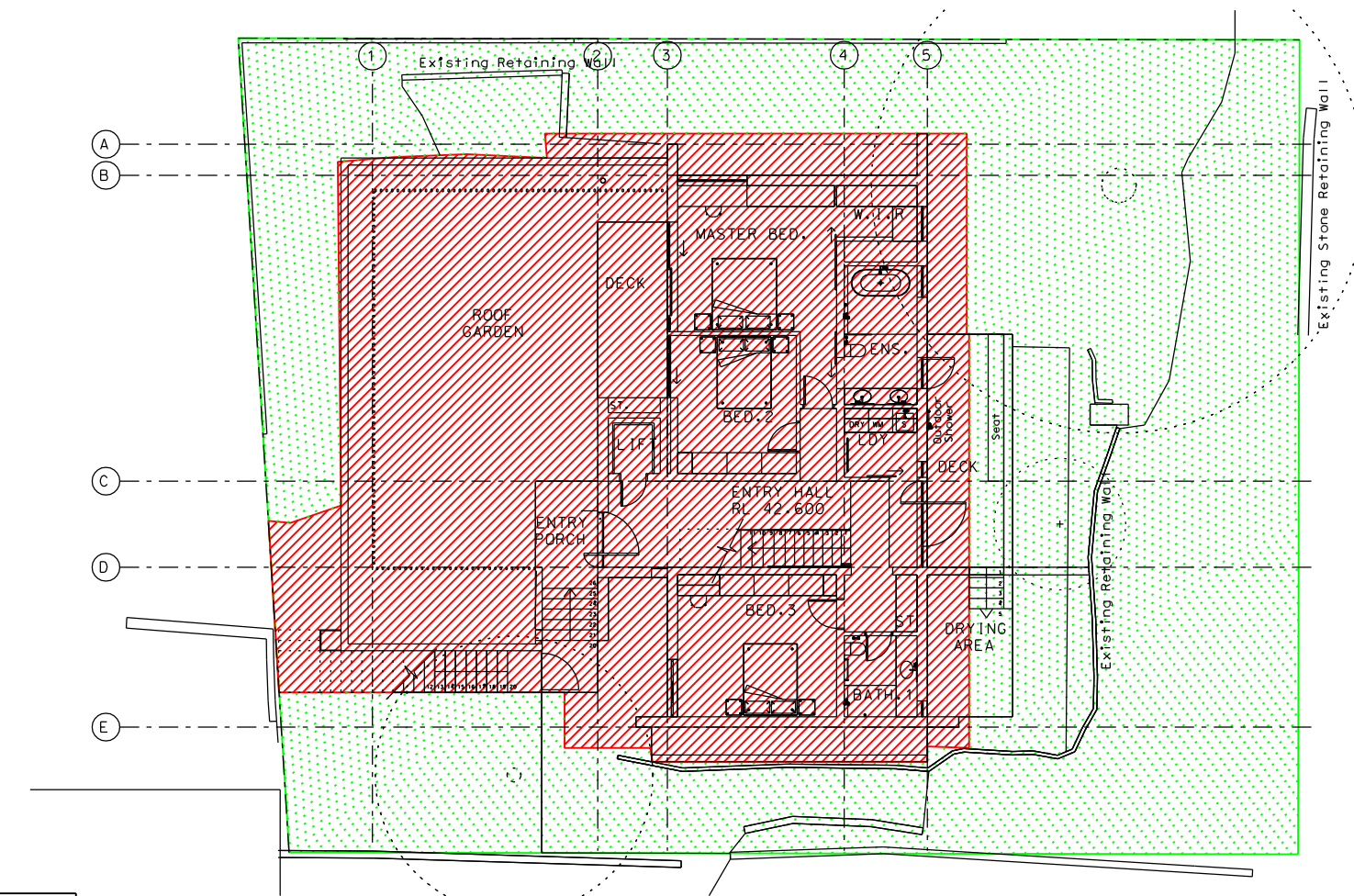
A minimum storage capacity of 60 litres per m² of additional hard/impermeable surface area, and a discharge rate which replicates the discharge from the stormwater tank were it to be undeveloped.



Measurements according to the common method of polished metal (common metal) surface area were also made, with

ALL IN ACCORDANCE WITH NORTHERN BEACHES COUNCIL'S
STORMWATER REQUIRMENTS

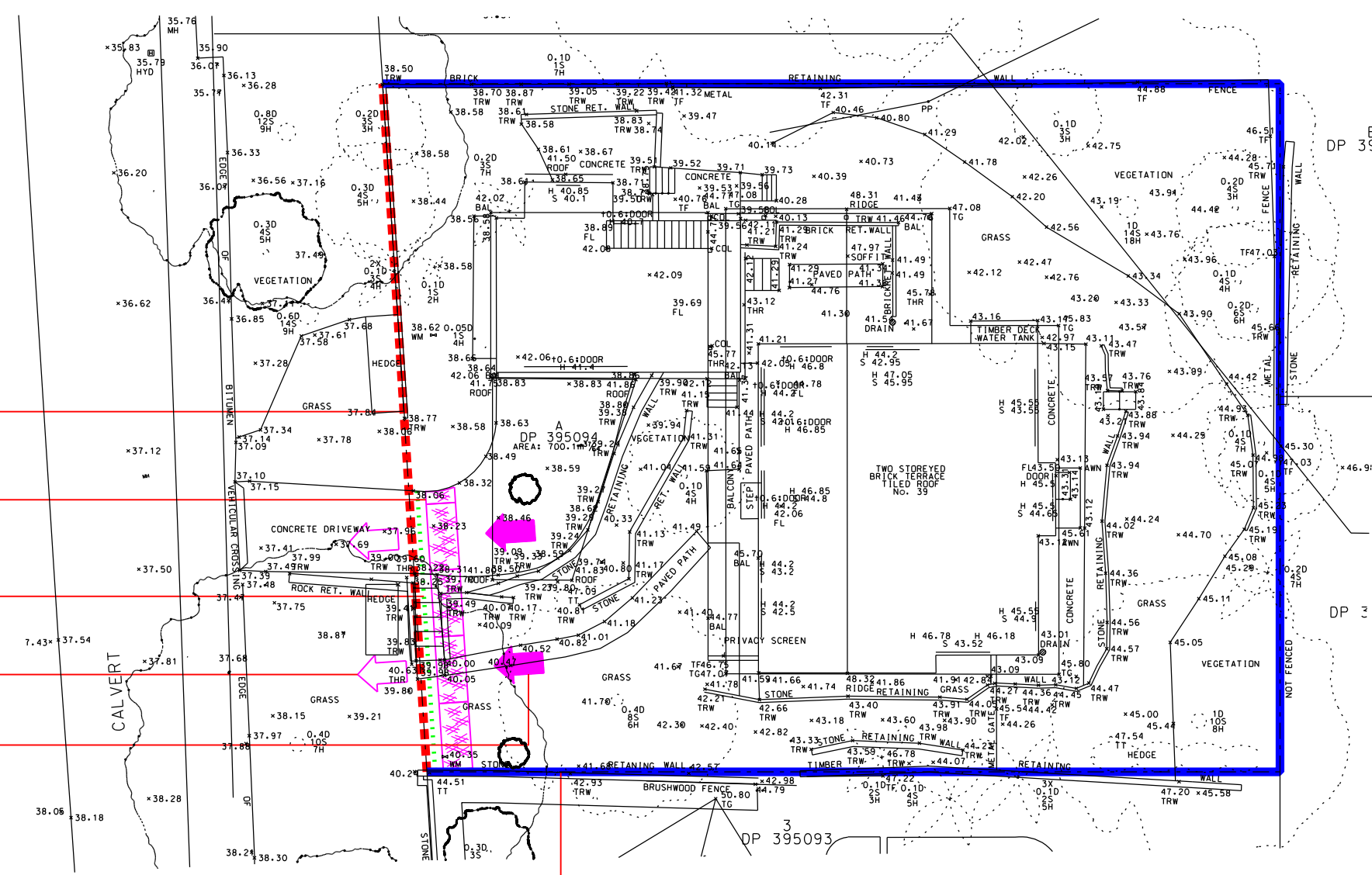
TOTAL SITE AREA: 700.1m²
PRE - DEVELOPED IMPERVIOUS AREAS: 300.6m²
POST DEVELOPED IMPERVIOUS AREAS: 319.2m²
INCREASE IN IMPERVIOUS AREAS: 18.6m²

ACCORDING TO TABLE 7 ON PAGE 40:
NO ON SITE DETENTION IS REQUIRED WHERE THE INCREASE
IN IMPERVIOUS AREAS IS LESS THAN 50.0m2

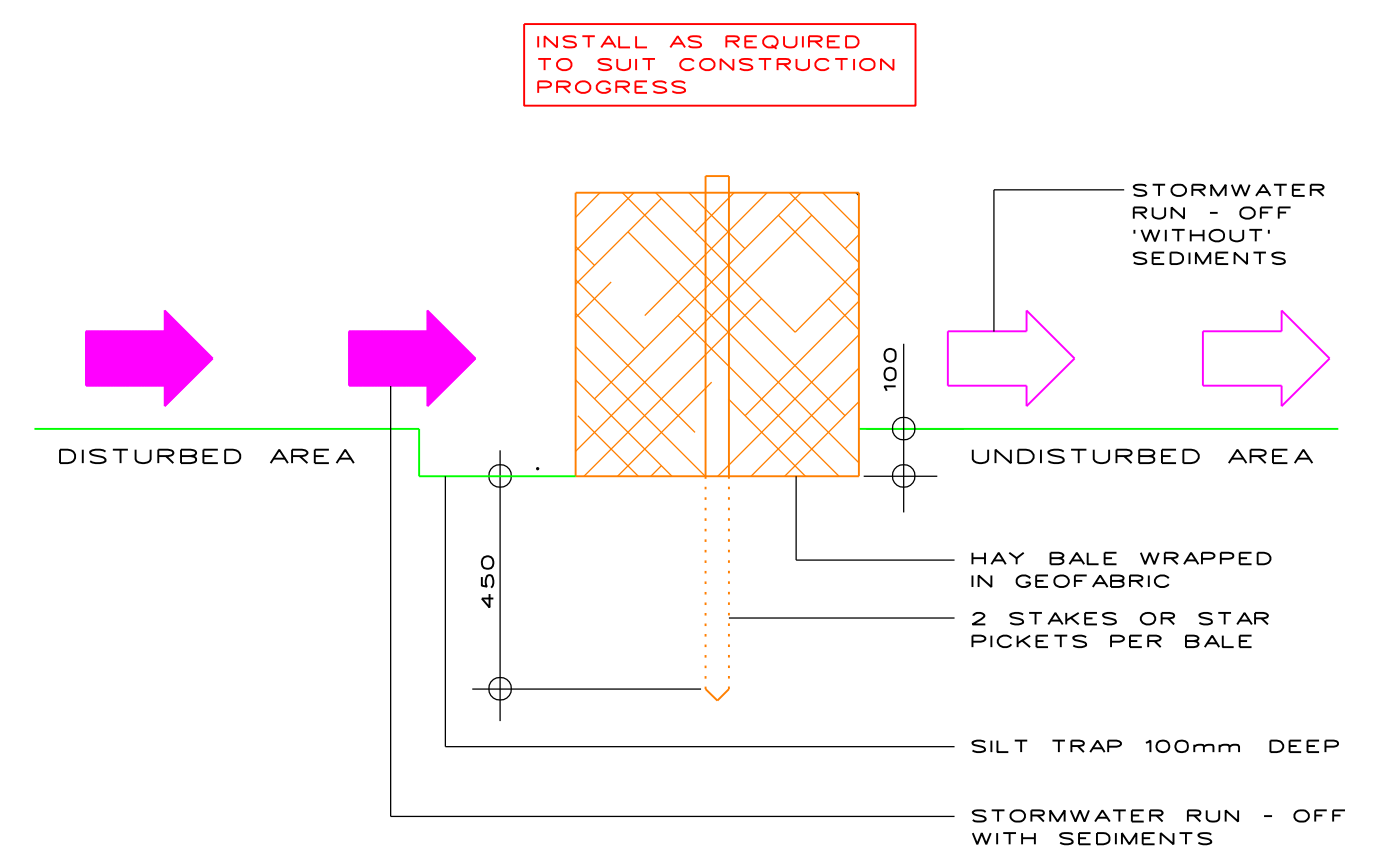


SYMBOL	CATCHMENT	IMPERVIOUS AREA	PERVIOUS AREA	PERCENTAGE
	ROOF AND PAVED AREAS	319.2m2	-	45.6%
	DEEPSOIL LANDSCAPING	-	380.9m2	54.4%
TOTAL		700.1m2		100%

POST DEVELOPED CATCHMENT AREAS



SEDIMENTATION CONTROL DURING CONSTRUCTION



DETAIL 1:
HAY BALE BARRIER
NTS

APPROVAL

A	ISSUED FOR DA	04.04.25
REV	DESCRIPTION	DATE

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PROJECT
39 CALVERT
PARADE
NEWPORT

DRAWING TITLE

LEGEND, CATCHMENT
CALCS. AND SED.
CONTROL

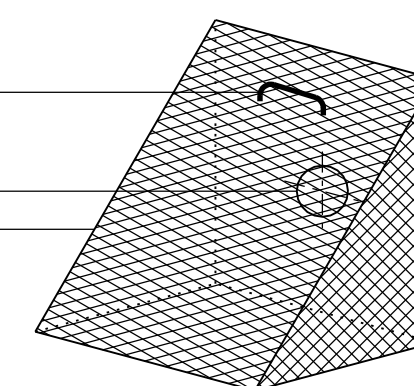
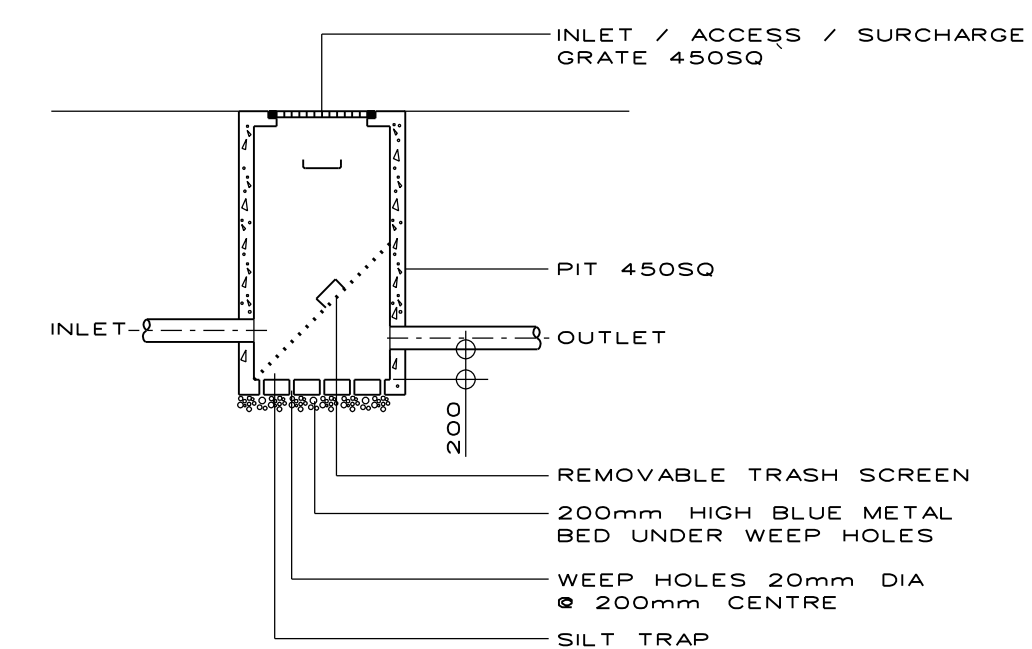
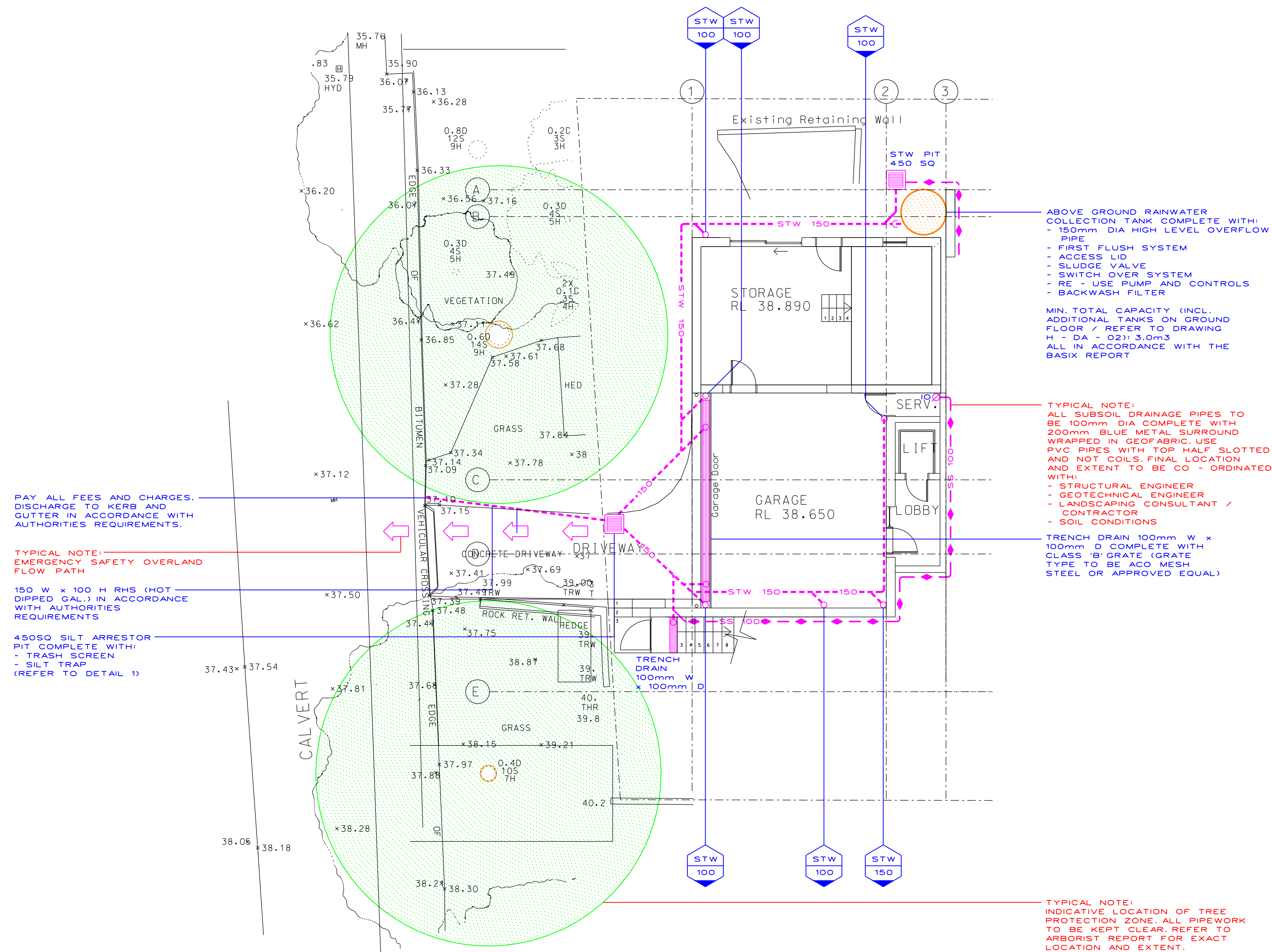
SCALE		JOB No
1:200 @ A1 / 1:400 @ A3		24 / 158
DISCIPLINE	DRAWING No	REVISION
HYD	H-D A-00	A

- NOT FOR CONSTRUCTION
- FINAL LOCATION OF ALL DOWNPIPES, PITS, RAINWATER OUTLETS AND SUBSOIL PIPES TO BE CONFIRMED DURING CONSTRUCTION CERTIFICATE STAGE OF THE PROPOSED DEVELOPMENT

ALL LANDSCAPED AREAS LOCATED ABOVE CONCRETE SLABS
TO BE EQUIPPED WITH WATERPROOFING MEMBRANE,
DRAINAGE CELL AND GEOFABRIC

DURING DEMOLITION / CONSTRUCTION: ALLOW TO INVESTIGATE EXACT LOCATION, SIZE AND CONDITION OF ALL DRAINAGE PIPES. LIAISE WITH itm design TO DISCUSS THE FINDINGS. ALLOW TO REPLACE / UPGRADE AS REQUIRED.

FOR GENERAL NOTES AND LEGEND
REFER TO DRAWING H - DA - 00



DETAIL 1:
SILT ARRESTOR PIT
& TRASH SCREEN
NTS

APPROVAL



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REV	DESCRIPTION	DATE

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39 CALVERT
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DRAWING TITLE

LOWER GROUND
FLOOR
STORMWATER

SCALE
1:100 @ A1 / 1:200 @ A3

DRAWING No
H-D-A-01

REVISION

A

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

STW DARDWIN G

STORMWATER DA
DRAWING ONLY

- NOT FOR CONSTRUCTION
- FINAL LOCATION OF ALL DOWNPIPES, PITS, RAINWATER OUTLETS
AND SUBSOIL PIPES TO BE CONFIRMED DURING CONSTRUCTION
CERTIFICATE STAGE OF THE PROPOSED DEVELOPMENT

LANDSCAPING DRAINAGE

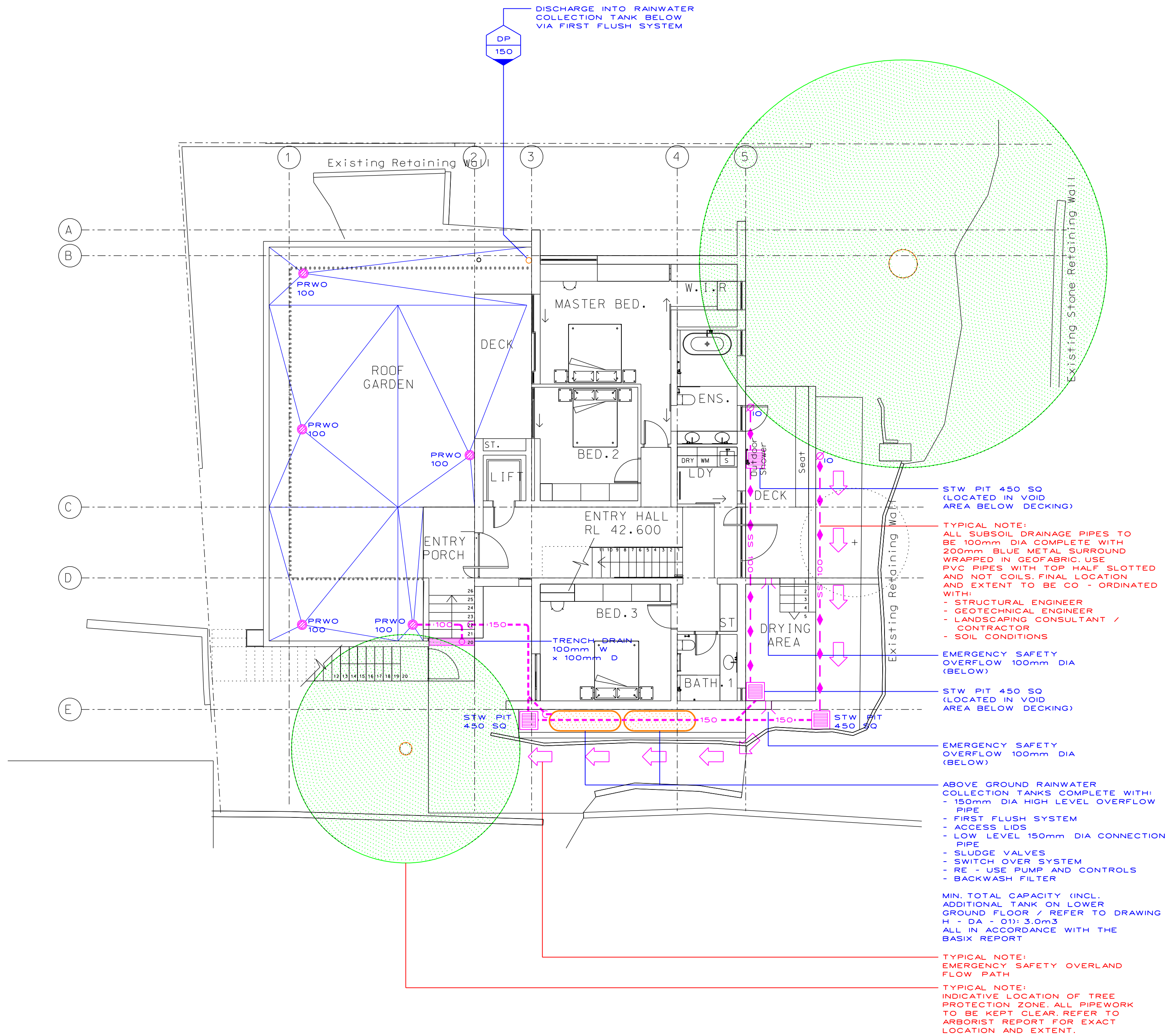
ALL LANDSCAPED AREAS LOCATED ABOVE CONCRETE SLABS
TO BE EQUIPPED WITH WATERPROOFING MEMBRANE,
DRAINAGE CELL AND GEOFABRIC

EXISTING DRAINAGE

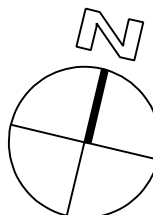
DURING DEMOLITION / CONSTRUCTION ALLOW TO INVESTIGATE
EXACT LOCATION, SIZE AND CONDITION OF ALL DRAINAGE PIPES.
LIAISE WITH itm design TO DISCUSS THE FINDINGS. ALLOW TO
REPLACE / UPGRADE AS REQUIRED.

NOTES

FOR GENERAL NOTES AND LEGEND
REFER TO DRAWING H - DA - 00



APPROVAL



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REV	DESCRIPTION	DATE

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39 CALVERT
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DRAWING TITLE
GROUND FLOOR
STORMWATER

SCALE
1:100 @ A1 / 1:200 @ A3

JOB No
24/156

DISCIPLINE
HYD

DRAWING No
H-DA-02

REVISION
A

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STW DA DRAWING

STORMWATER DA
DRAWING ONLY

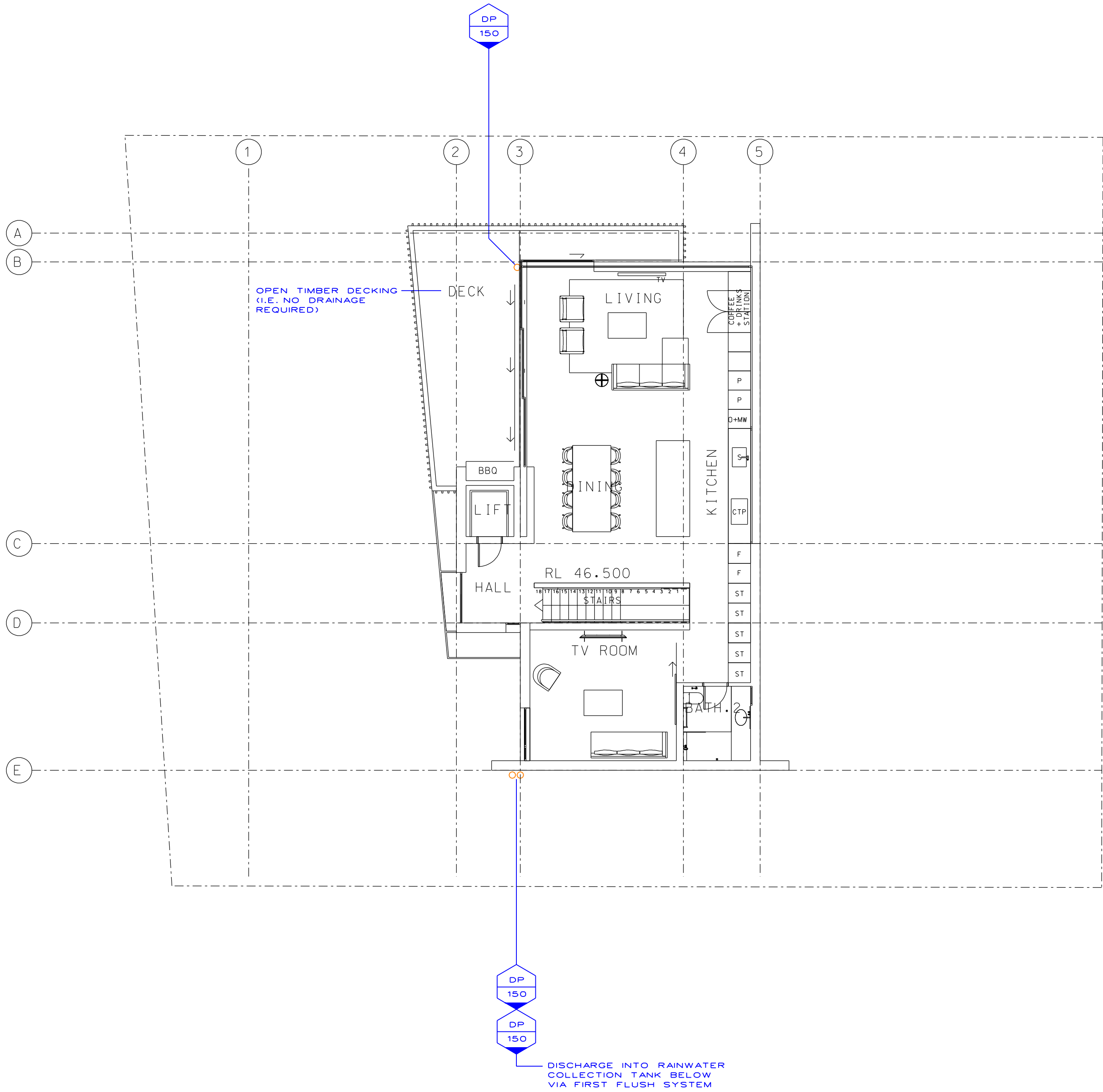
- NOT FOR CONSTRUCTION
- FINAL LOCATION OF ALL DOWNPIPES, PITS, RAINWATER OUTLETS
AND SUBSOIL PIPES TO BE CONFIRMED DURING CONSTRUCTION
CERTIFICATE STAGE OF THE PROPOSED DEVELOPMENT

LANDSCAPING DRAINAGE

ALL LANDSCAPED AREAS LOCATED ABOVE CONCRETE SLABS
TO BE EQUIPPED WITH WATERPROOFING MEMBRANE,
DRAINAGE CELL AND GEOFABRIC

NOTES

FOR GENERAL NOTES AND LEGEND
REFER TO DRAWING H - DA - 00



A	ISSUED FOR DA	04.04.25
REV	DESCRIPTION	DATE

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PROJECT
39 CALVERT
PARADE
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APPROVAL

DRAWING TITLE
FIRST FLOOR
STORMWATER

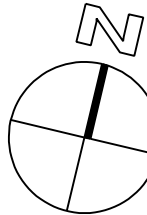
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JOB No
24/156

DISCIPLINE
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DRAWING No
H-DA-03

REVISION
A

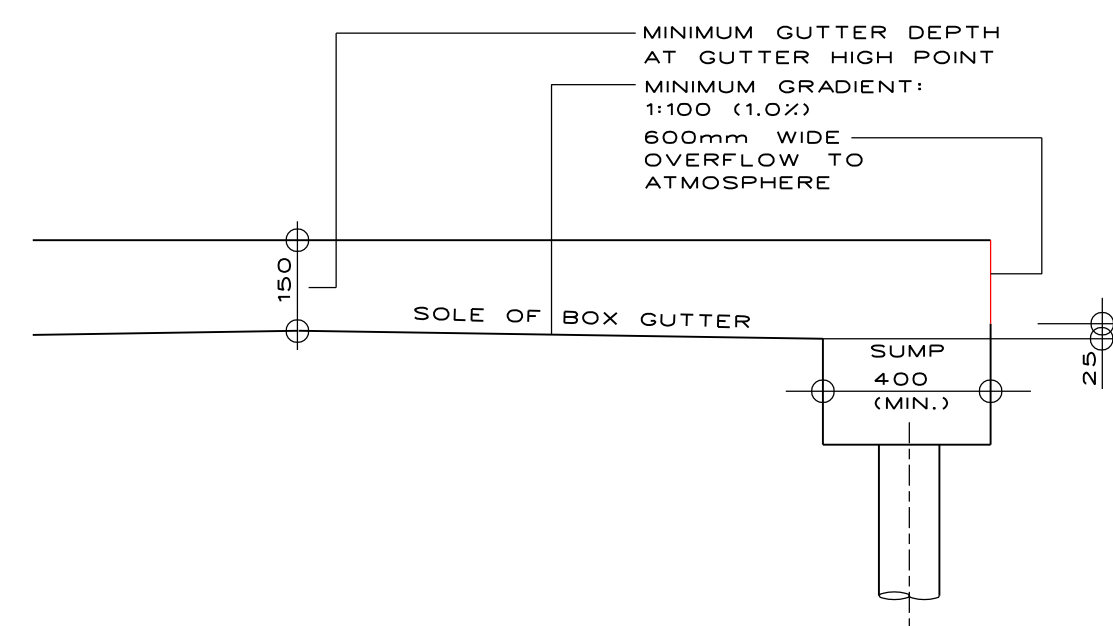
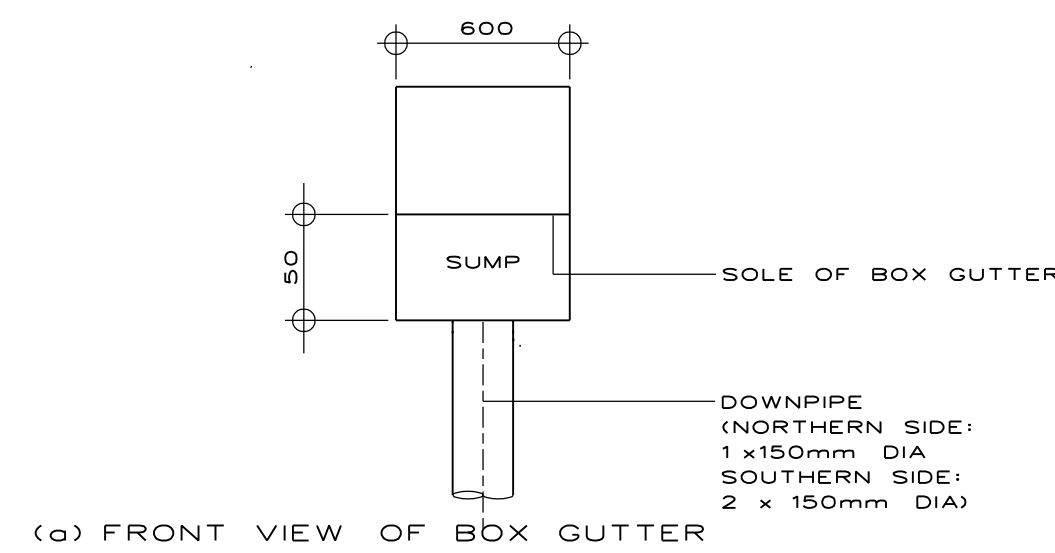


STW DA DRAWING

- NOT FOR CONSTRUCTION
- FINAL LOCATION OF ALL DOWNPIPES, PITS, RAINWATER OUTLETS AND SUBSOIL PIPES TO BE CONFIRMED DURING CONSTRUCTION CERTIFICATE STAGE OF THE PROPOSED DEVELOPMENT

ALL LANDSCAPED AREAS LOCATED ABOVE CONCRETE SLABS
TO BE EQUIPPED WITH WATERPROOFING MEMBRANE,
DRAINAGE CELL AND GEOFABRIC

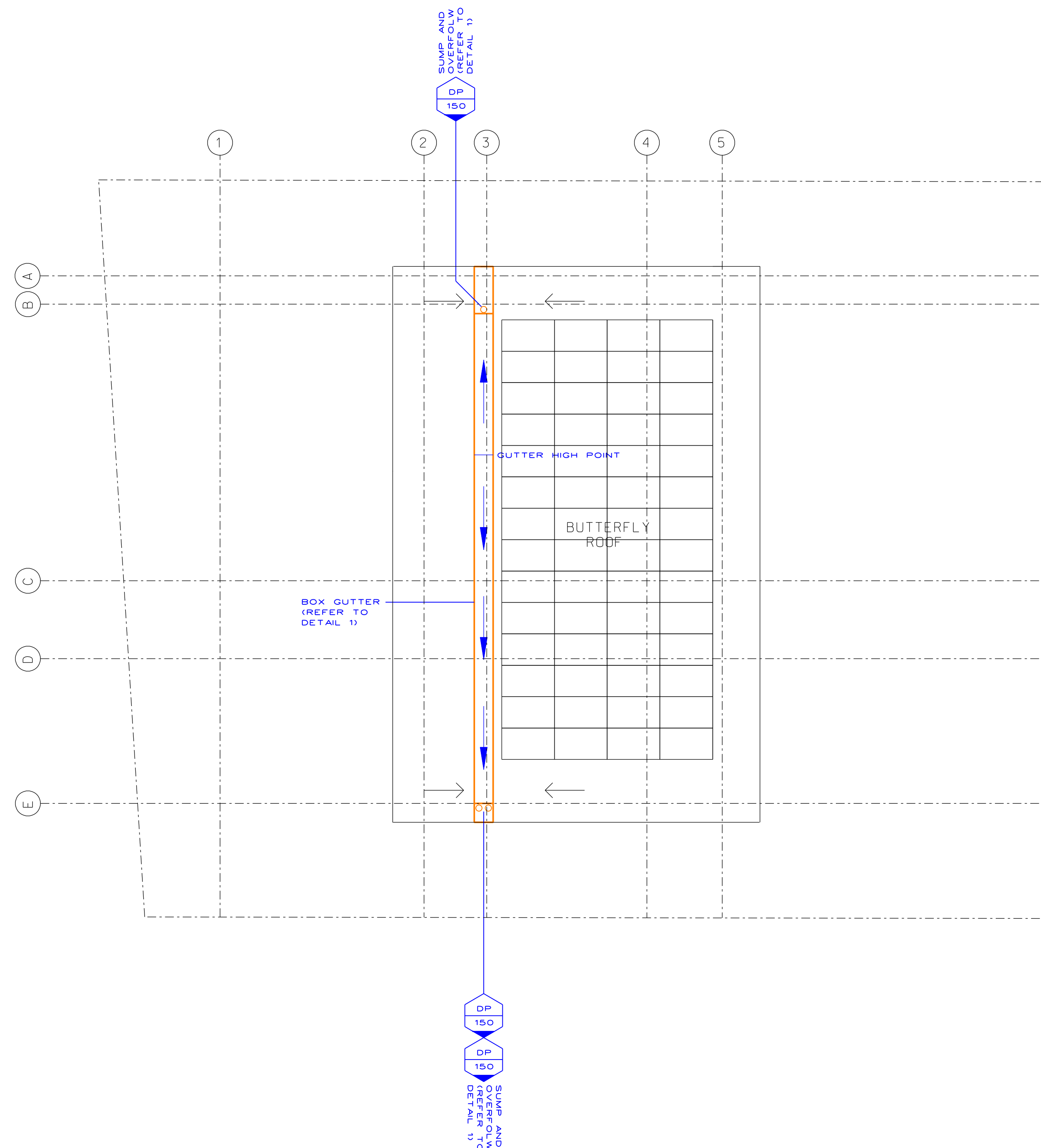
NOTES
FOR GENERAL NOTES AND LEGEND
REFER TO DRAWING H - DA - 00



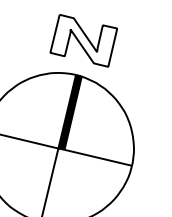
(b) SIDE VIEW OF BOX GUTTER

NOTE: The sump and overflow channel to be fully sealed to the box gutter.

DETAIL 1:
BOX GUTTER
NTS



APPROVAL



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REV	DESCRIPTION	DATE

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DRAWING TITLE

ROOF
STORMWATER

SCALE
1:100 @ A1 / 1:200 @ A3

JOB No
24 / 156

DISCIPLINE
HYD

DRAWING No
H - D A - 04

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SWEDEN