

LEGEND

• DP

→

— PROPOSED STORMWATER PIPES

— PROPOSED RAINWATER PIPES

RL

IL

DOWN PIPE

FLOW DIRECTION

PROPOSED STORMWATER PIPES

PROPOSED RAINWATER PIPES

PIT SURFACE LEVEL

INVERT LEVEL

GRADED INLET PIT

GRATE DRAIN



### GROUND FLOOR STORMWATER DRAINAGE CONCEPT PLAN

SCALE 1:100

NOTES:

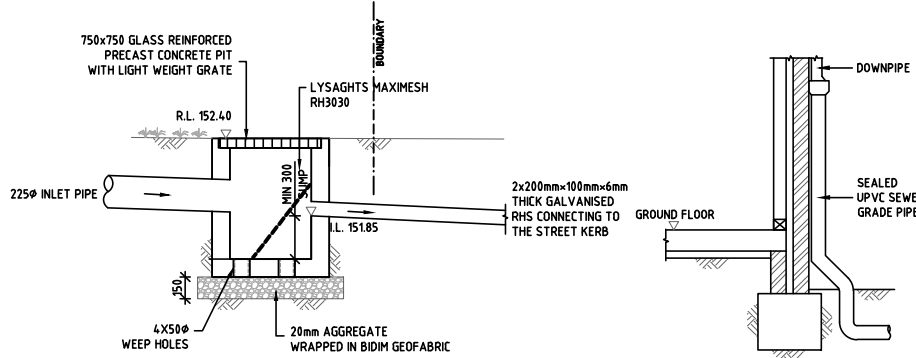
- ALL DOWNPIPE LOCATIONS TO BE CHECKED BY ARCHITECT AND CONTRACTOR PRIOR TO CONSTRUCTION.

### STORMWATER DRAINAGE NOTES

- ALL LINES ARE TO BE MIN. 100Ø UPVC @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE.
- IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS. ALL DESIGN LEVELS SHOWN ON PLAN SHALL BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORK.
- ALL PIPES TO HAVE MIN 300mm COVER IF LOCATED WITHIN PROPERTY (MEASURED FROM THE CROWN OF THE PIPE).
- ALL PITS IN DRIVEWAYS BE HEAVY DUTY GRATES. DIRECT SURFACE FLOW TO ALL GRATED SURFACE INLET PITS.
- ALL WORK DO BE DONE IN ACCORDANCE WITH AS/NZ 3500.3:2015 AND COUNCIL SPECIFICATIONS.
- LOCATION OF DOWNPIPES ARE INDICATIVE ONLY. DOWNPIPE & FLOOR WASTE SIZE, LOCATION & QUANTITY TO BE DETERMINED BY BUILDER & IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
- THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, HYDRAULIC, LANDSCAPE AND STRUCTURAL PLANS.
- ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE DESIGN ENGINEER FOR RESOLUTION.
- ALL GUTTERS WILL BE FITTED WITH LEAF GUARDS AND SHOULD BE INSPECTED AND CLEANED TO ENSURE LEAF LITTER CANNOT ENTER THE DOWNPIPES.
- ALL PITS WITH DEPTH MORE THAN 1M MUST HAVE IRON STEPS.

### RAINWATER REUSE NOTES

- EVERY FIXTURE SERVICED FROM THE RECYCLED WATER SUFWLY MUST BE NOTED WITH A PLAQUE FOR IDENTIFICATION AND MARKED WITH "NOT FOR HUMAN CONSUMPTION" OR "NON-POTABLE WATER".
- RAINWATER TANK TO BE CONNECTED TO AT LEAST ONE OUTDOOR TAP.
- OVERFLOW FROM RAINWATER TANK TO BE CONNECTED TO STORMWATER DRAINAGE SYSTEM. NO OTHER CONNECTIONS TO THE OVERFLOW PIPELINE SUCH AS SURFACE WATER INLETS.
- ALL RECYCLE WATER PIPES TO BE COLOUR CODED FOR IDENTIFICATION.
- FIRST-FLUSH DEVICES ARE REQUIRED TO BE CHECKED AND CLEANED REGULARLY.
- WATER AUTHORITY MUST BE CONTACTED REGARDING RECYCLED WATER ON THE BUILDING AND FOR THE BACKFLOW PREVENTION REQUIREMENTS AND TOP-UP SYSTEM.
- ANY GARDEN OR CARWASH TAPS CONNECTED RECYCLE SYSTEM MUST BE LOCATED 15m MIN. ABOVE THE SURFACE.
- FOR PERIOD OF LOW WATER LEVEL IN THE RAINWATER TANK, A CONNECTION TO WATER MAIN IS NEEDED AND TO BE PROVIDED IN ACCORDANCE WITH THE WATER AUTHORITY.
- PUMPS AND FILTERS ON OUTLETS FROM RECYCLE SYSTEM TO BE SUFWLIED AS MAY BE REQUIRED.



TYPICAL SILT ARRESTOR PIT  
SCALE: NTS

DOWN PIPE DETAILS  
SCALE: NTS

SITE CALCULATIONS

SITE INFORMATION

- TOTAL SITE AREA :

- PRE-DEVELOPMENT AREA:

- PROPOSED IMPERVIOUS AREA :

- PROPOSED PERVIOUS AREA:

1012.6m<sup>2</sup>

473.9m<sup>2</sup> (46.8%)

552.4 m<sup>2</sup> (54.5%)

460.6 m<sup>2</sup>

OSD INFORMATION

- PERMISSIBLE DISCHARGE RATE:

- REQUIRED OSD STORAGE VOLUME:

- PROPOSED OSD STORAGE VOLUME:

- PROPOSED OSD STORAGE VOLUME:

- DESIGN DISCHARGE RATE:

26L/S (20% AEP FROM PRE-DEVELOPMENT)

20L/S (DISCHARGE TO THE KERB)

29.6m<sup>3</sup>

14.7 + 95.30 = 110m<sup>2</sup>

110x 0.3 = 33 m<sup>3</sup>

19L/S (CONTROLLED BY 135mmØ ORIFICE)

ALL DATA ARE CALCULATED BY DRAINS, SEE DETAIL CALCULATION ON D.030

REVISIONS	No.	BY	DATE	DESCRIPTION	APPD
	No.	BY	DATE	DESCRIPTION	APPD
REVISIONS	C	A.M.	16.09.21	PRELIMINARILY ISSUE	O.S.
	B	A.M.	10.09.21	PRELIMINARILY ISSUE	O.S.
	A	K.Z.	30.09.20	PRELIMINARILY ISSUE	O.S.

ARCHITECT

WALSH ARCHITECTS

CLIENT

ATAII

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PROJECT

58 FOREST WAY FRENCHES FOREST NSW 2086

DRAWING TITLE

GROUND FLOOR STORMWATER DRAINAGE CONCEPT PLAN

JOB No

20124

DESIGNED

A.M.

DRAWN

A.M.

CHECKED

O.S.

DRAWING No

D.010

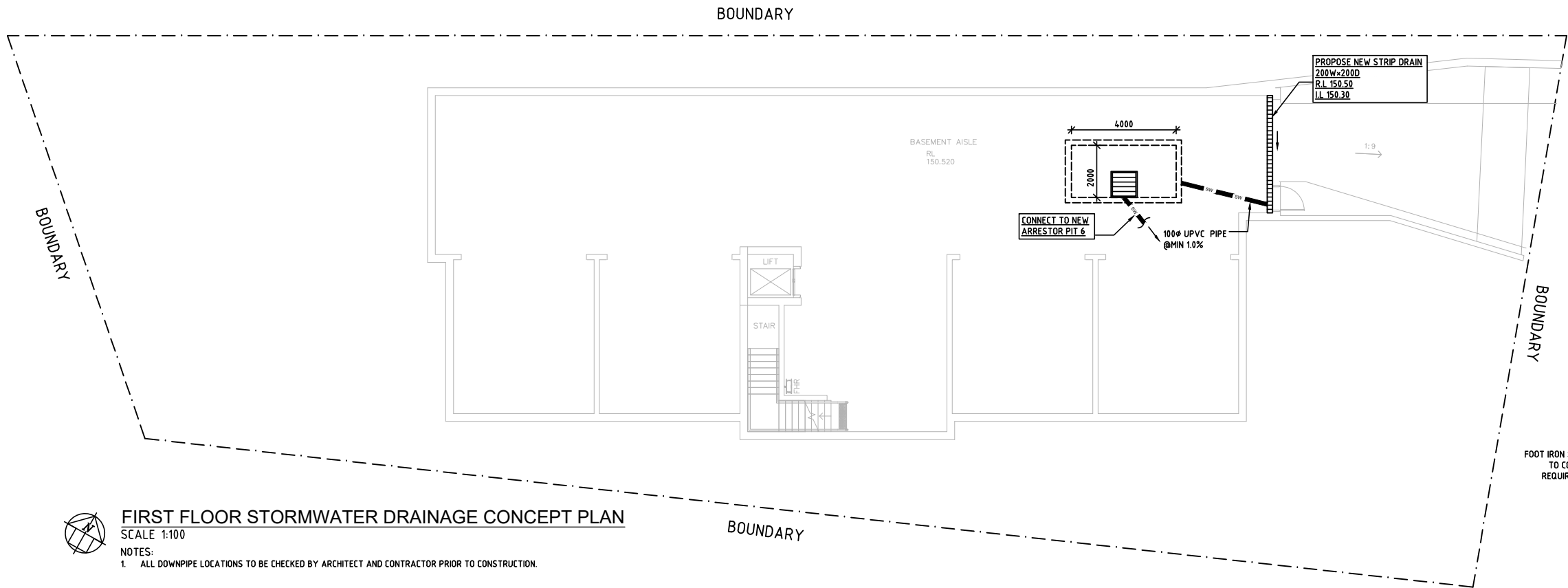
SCALE

AS SHOWN

SIZE

A1





FIRST FLOOR STORMWATER DRAINAGE CONCEPT PLAN

SCALE 1:100

NOTES:

1. ALL DOWNPIPE LOCATIONS TO BE CHECKED BY ARCHITECT AND CONTRACTOR PRIOR TO CONSTRUCTION.



**COLOURS:**  
"DANGER" AND BACKGROUND WHITE  
ELLIPTICAL AREA RED  
RECTANGLE CONTAINING ELIPSE BLACK  
OTHER LETTERING AND BORDER BLACK  
**MATERIALS** POLYPROPYLENE

CONFINED SPACE WARNING SIGN

SCALE: N.T.S.

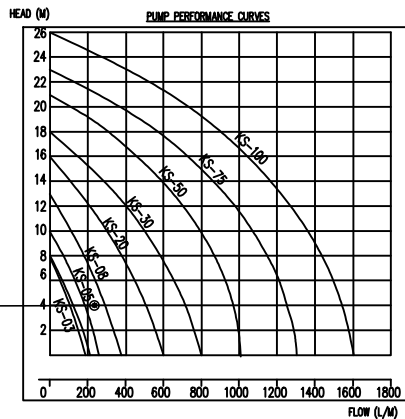
PUMP OUT DETAILS:

DUAL KS-20 PUMP OR EQUIVALENT TO BE INSTALLED IN SUMP AND CONNECTED TO CONTROL PANEL WHICH WILL ALLOW FOR THE PUMPS TO OPERATE ALTERNATIVELY ON HIGH LEVEL ALARMS AT 5.0 L/s (PER PUMP) AT 4.0m HEAD.

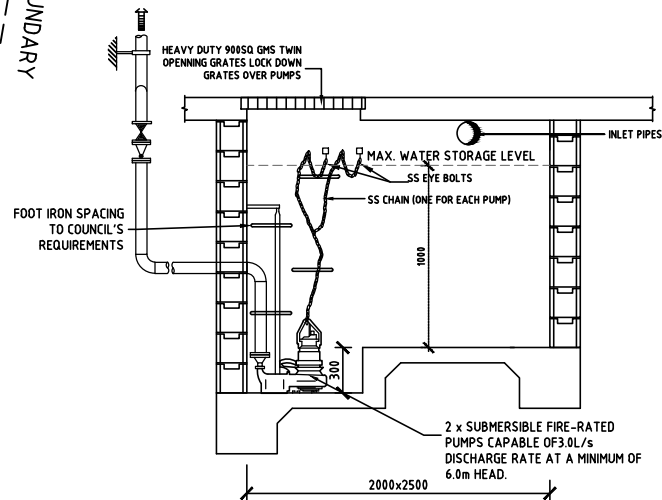
PUMP SPECIFICATIONS  
STANDARD PUMP-OUT NOTES

THE PUMP-OUT SYSTEM IS DESIGNED TO WORK IN THE FOLLOWING MANNER -

1. THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATELY SO AS TO ALLOW BOTH PUMPS TO HAVE EQUAL OPERATION LOAD & PUMP LIFE.
2. 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.
3. A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE & DRAIN THE TANK TO THE LEVEL OF THE LOW LEVEL FLOAT.
4. 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 & ACTIVATE THE ALARM.
5. AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT & 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.



Type	Output		Outlet		Rated		Maximum		Weigh	Dimension		
	HP	kW	mm	inch	Head	Capacity	Head	Capacity		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



TYPICAL SECTION TROUGH PUMP PIT

SCALE: NTS

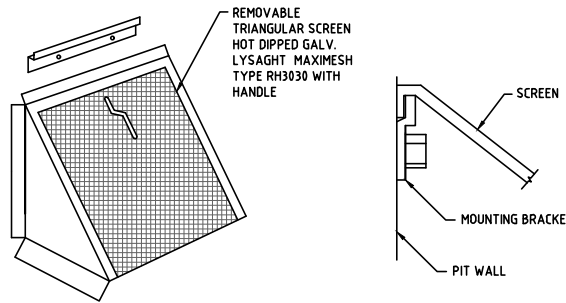
PUMP OUT CALCULATION

1. PUMP OUT REQUIREMENT:

DESIGN ARI: 100 YRS  
EXPOSED AREA DRAINING TO PUMP: 60.4m<sup>2</sup>  
MINIMUM STORAGE CAPACITY(V<sub>c</sub>): 60.4x(65/1000)x2=7.85m<sup>3</sup>  
(2HRS, 10YRS ARI)  
MINIMUM DISCHARGE RATE (Q<sub>c</sub>): 60.4x276/3600 = 4.63L/s  
(6MIN, 100 YRS ARI)

2. DESIGNED PUMP OUT SYSTEM:

PROPOSED PUMP PIT: 8m<sup>3</sup>  
PROPOSED PUMP OUT RATE: 5L/s (MIN RATE REQUIRED AS PER AS3500.3 IS 10L/s)  
PUMP OUT HYDRAULIC HEAD: 4m  
PUMP OPERATION HOURS IS BE RESTRICTED BETWEEN 11:00pm AND 3.00 am.



SILT FILTER SCREEN

SCALE: NTS

REVISIONS					REVISIONS				
No.	BY	DATE	DESCRIPTION	APPD	No.	BY	DATE	DESCRIPTION	APPD
C	A.M.	16.09.21	PRELIMINARILY ISSUE	O.S.					
B	A.M.	10.09.21	PRELIMINARILY ISSUE	O.S.					
A	K.Z.	30.09.20	PRELIMINARILY ISSUE	O.S.					



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RISE CONSULTING ENGINEERS PTY. LTD.

PROJECT						
58 FOREST WAY FRENCHES FOREST NSW 2086						
DRAWING TITLE						
BASEMENT STORMWATER DRAINAGE CONCEPT PLAN						
JOB No	DESIGNED	DRAWN	CHECKED	DRAWING No	SCALE	SIZE
20124	A.M.	A.M.	O.S.	D.030	AS SHOWN	A1

STORMWATER RUN- OFF DATA ( 1 IN 5 YRS STORM EVENT)							
SUB-CATCHMENT DETAILS							
Name	Max	Paved	Grassed	Paved	Grassed	Supp.	Due to Storm
	Flow Q	Max Q	Max Q	Tc	Tc	Tc	
	(cu.m/s)	(cu.m/s)	(cu.m/s)	(min)	(min)	(min)	
Pre - Dev	0.024	0.016	0.008	5	8		2 20% AEP, 10 min burst, Storm 8
STORMWATER RUN- OFF DATA ( 1 IN 100 YRS STORM EVENT)							
SUB-CATCHMENT DETAILS							
Name	Max	Paved	Grassed	Paved	Grassed	Supp.	Due to Storm
	Flow Q	Max Q	Max Q	Tc	Tc	Tc	
	(cu.m/s)	(cu.m/s)	(cu.m/s)	(min)	(min)	(min)	
Pre -Dev	0.056	0.03	0.027	5	8		2 1% AEP, 10 min burst, Storm 7
Post - Dev	0.061	0.052	0.009	5	8		2 1% AEP, 5 min burst, Storm 1
DETENTION BASIN DETAILS ( 1 IN 100 YRS STORM EVENT)							
Name	Max WL	MaxVol	Max Q	Max Q	Max Q		
			Total	Low Level	High Level		
Basin2119	152.23	29.6	0.019	0.019	0		

SITE CALCULATIONS		
SITE INFORMATION		
-	TOTAL SITE AREA :	1012.6m <sup>2</sup>
-	PRE-DEVELOPMENT AREA:	473.9m <sup>2</sup> (46.8%)
-	PROPOSED IMPERVIOUS AREA :	552.4 m <sup>2</sup> (54.5%)
-	PROPOSED PERVIOUS AREA:	460.6 m <sup>2</sup>
OSD INFORMATION		
-	PERMISSIBLE DISCHARGE RATE:	26L/S (20% AEP FROM PRE-DEVELOPMENT) 20L/S (DISCHARGE TO THE KERB)
-	REQUIRED OSD STORAGE VOLUME:	29.6m <sup>3</sup>
-	PROPOSED OSD STORAGE VOLUME:	14.7 + 95.30 = 110m <sup>2</sup>
-	PROPOSED OSD STORAGE VOLUME:	110× 0.3 = 33 m <sup>3</sup>
-	DESIGN DISCHARGE RATE:	19L/S (CONTROLLED BY 135mmØ ORIFICE)
ALL DATA ARE CALCULATED BY DRAINS, SEE DETAIL CALCULATION ON D.030		

DRAINS MODEL RESULT (OSD CALCULATION)

DISCHARGE FROM 1 IN 5 YRS UP TO 1 IN 100 YRS STORM EVENTS



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PROJECT							
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1. OTHER ENVIRONMENTAL CONTROLS LIKE NOISE, DUST, VIBRATION, FLORA & FAUNA, FIRE, HAZMAT, AND CONTAMINATIONS MUST BE CONTROLLED TO THE REQUIREMENT OF THE COUNCIL AND THE RELEVANT STATE AUTHORITIES.