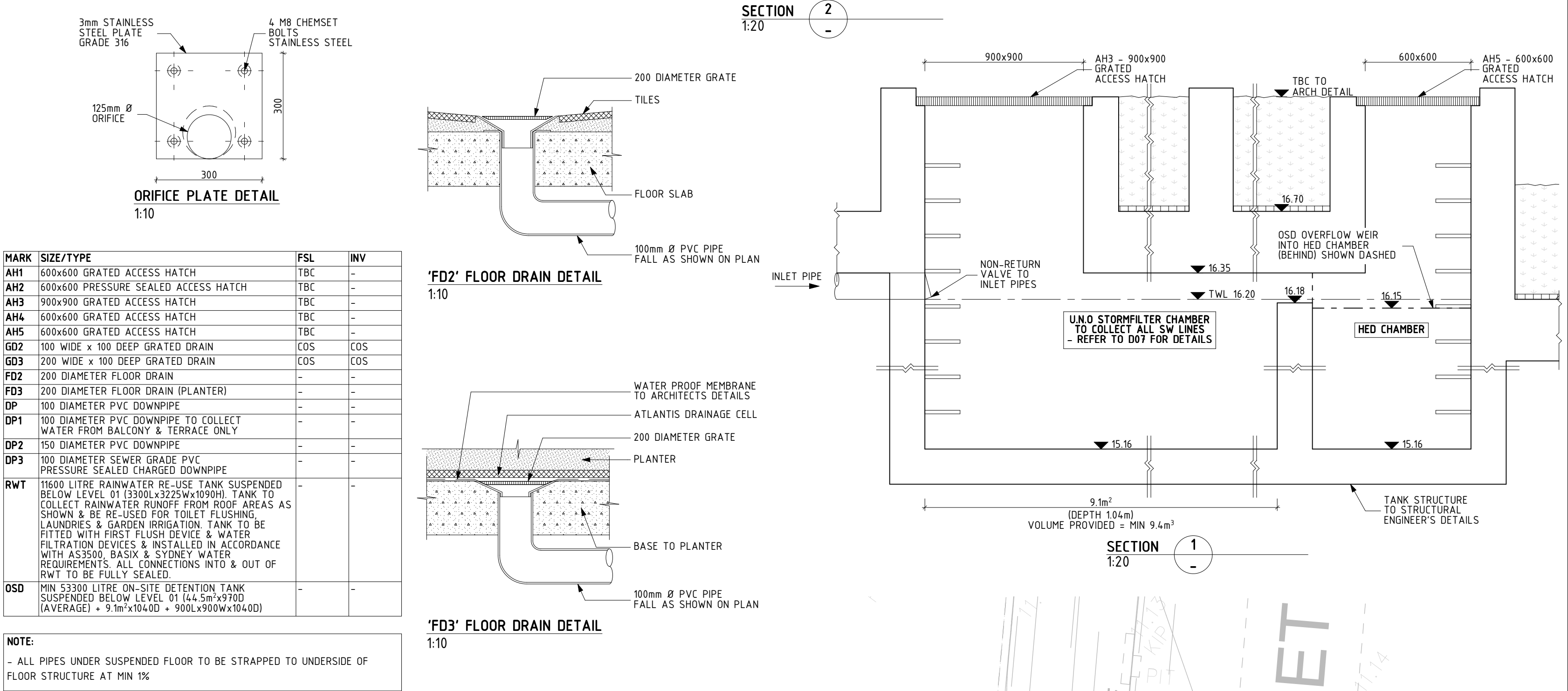
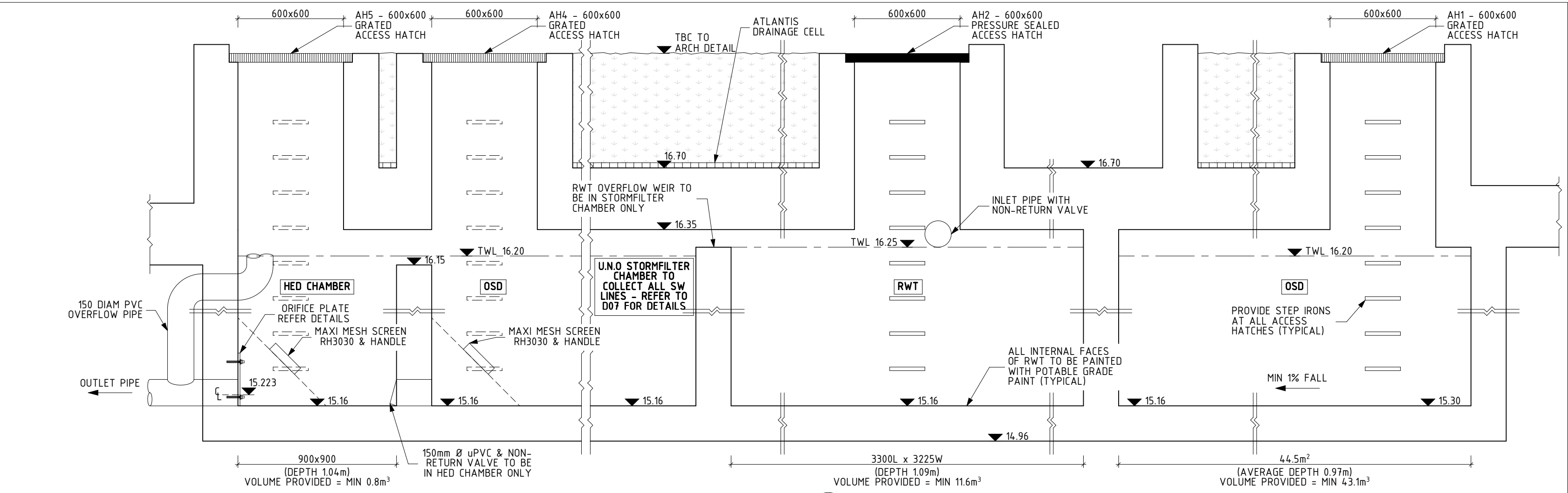
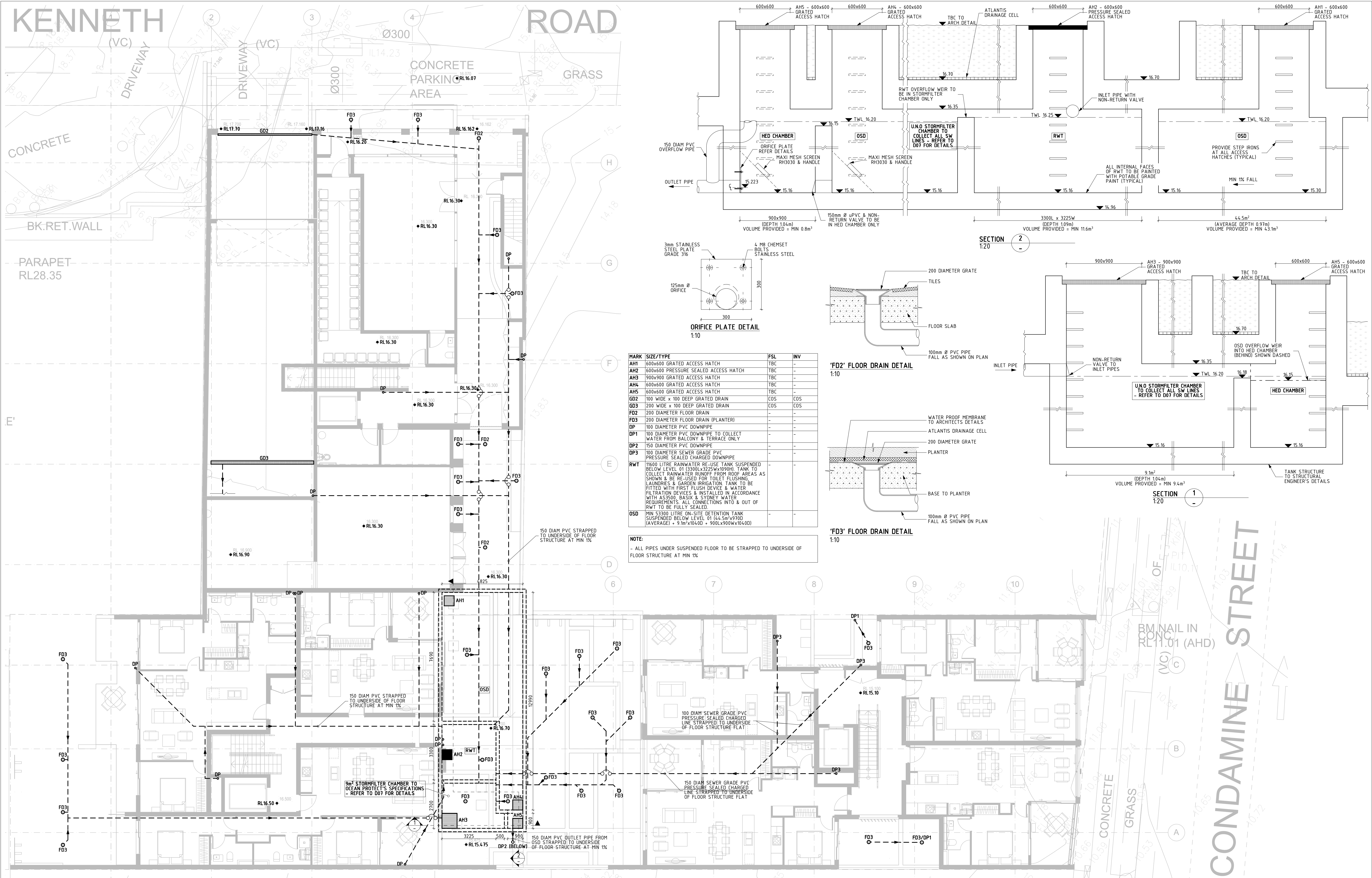




MARK	SIZE/TYPE	FSL	INV
AH1	600x600 GRATED ACCESS HATCH	TBC	-
AH2	600x600 PRESSURE SEALED ACCESS HATCH	TBC	-
AH3	900x900 GRATED ACCESS HATCH	TBC	-
AH4	600x600 GRATED ACCESS HATCH	TBC	-
AH5	600x600 GRATED ACCESS HATCH	TBC	-
GD2	100 WIDE x 100 DEEP GRATED DRAIN	COS	COS
GD3	200 WIDE x 100 DEEP GRATED DRAIN	COS	COS
FD2	200 DIAMETER FLOOR DRAIN	-	-
FD3	200 DIAMETER FLOOR DRAIN (PLANTER)	-	-
DP	100 DIAMETER PVC DOWNPIPE	-	-
DP1	100 DIAMETER PVC DOWNPIPE TO COLLECT WATER FROM BALCONY & TERRACE ONLY	-	-
DP2	150 DIAMETER PVC DOWNPIPE	-	-
DP3	100 DIAMETER SEWER GRADE PVC PRESSURE SEALED CHARGED DOWNPIPE	-	-
RWT	11600 LITRE RAINWATER RE-USE TANK SUSPENDED BELOW LEVEL 01 (3300Lx3225Wx1090H) TANK TO COLLECT RAINWATER RUNOFF FROM ROOF AREAS AS SHOWN & BE RE-USED FOR TOILET FLUSHING LAUNDRIES & GARDEN IRRIGATION. TANK TO BE FITTED WITH FIRST FLUSH DEVICE & WATER FILTRATION DEVICES & INSTALLED IN ACCORDANCE WITH AS3500, BASIX & SYDNEY WATER REQUIREMENTS. ALL CONNECTIONS INTO & OUT OF RWT TO BE FULLY SEALED.	-	-
OSD	MIN 53300 LITRE ON-SITE DETENTION TANK SUSPENDED BELOW LEVEL 01 (14.5m x 9.70m (AVERAGE) x 9.1m x 10.40m) x 900Lx900Wx1040D	-	-

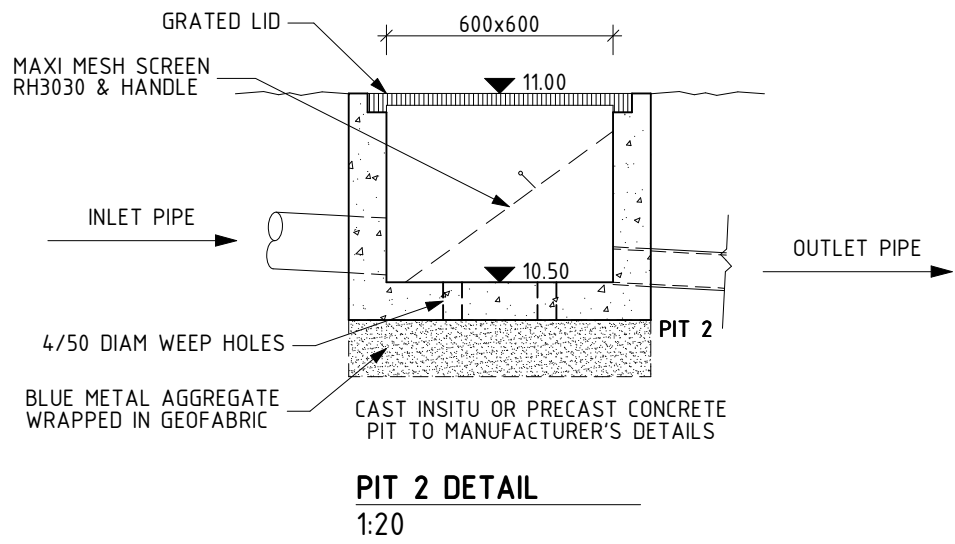
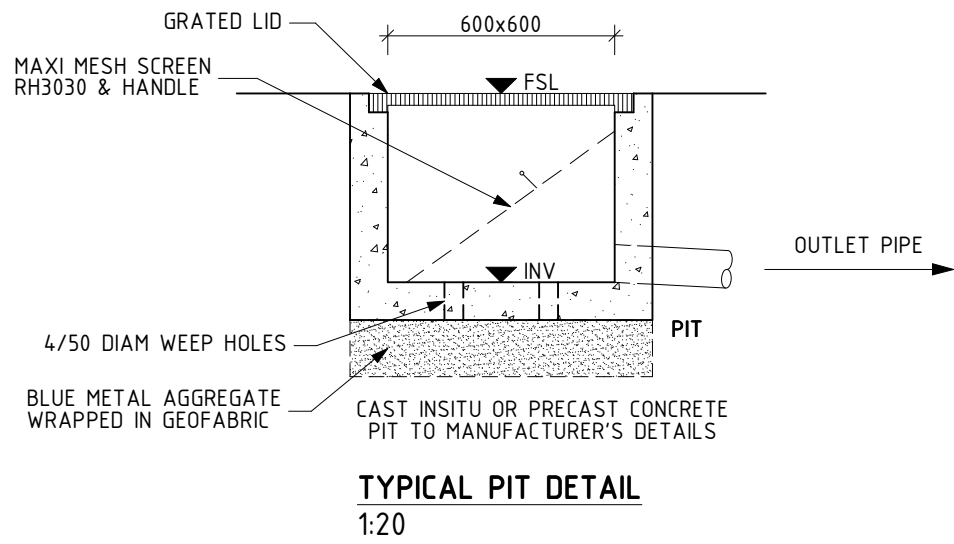
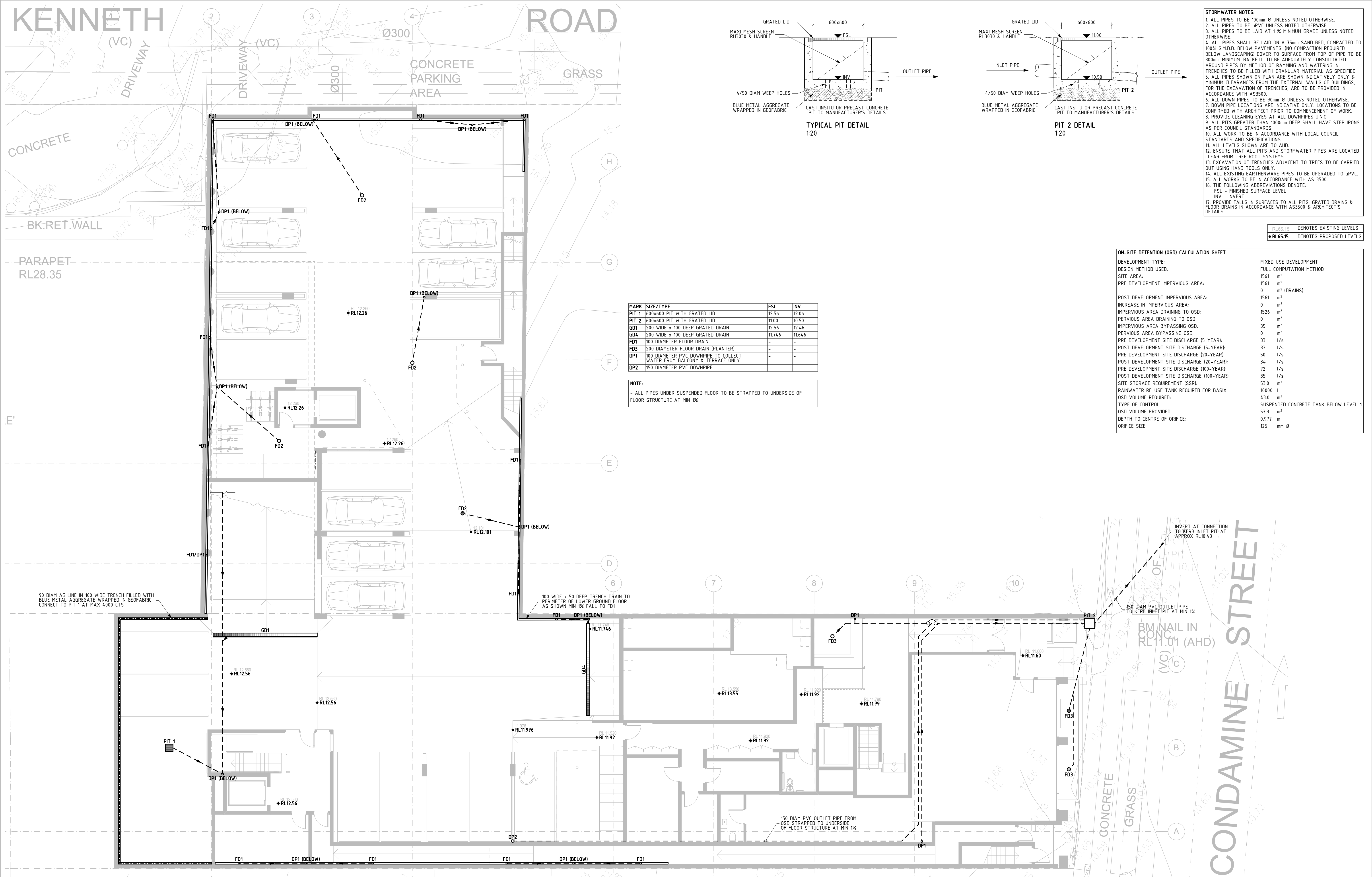
NOTE:
- ALL PIPES UNDER SUSPENDED FLOOR TO BE STRAPPED TO UNDERSIDE OF FLOOR STRUCTURE AT MIN 1%

LEVEL 01 DRAINAGE & PART SITE STORMWATER MANAGEMENT PLAN
1:100

REV.	DATE	REVISION DESCRIPTION	BY	REV.	DATE	REVISION DESCRIPTION
B	02.03.21	ISSUE FOR DA SUBMISSION	DI			
3	01.03.21	REVISED TO SUIT AMENDED ARCH DRAWINGS. ISSUE FOR REVIEW ONLY	DI			
A	27.10.20	ISSUE FOR DA SUBMISSION	DI			
2	23.10.20	ISSUE FOR REVIEW ONLY	DI			
1	07.08.20	ISSUE FOR REVIEW ONLY	DI			

ARCHITECT	GARTNER TROVATO ARCHITECTS
CLIENT	CO-ORDINATED PROJECTS PTY LIMITED

STATUS	ISSUE FOR DA SUBMISSION	DATE	JUNE 2020
PROJECT	265 CONDOMINE & 1 KENNETH STREETS, MANLY VALE	PROJECT NUMBER	200602
DRAWING	LEVEL 01 DRAINAGE & PART SITE STORMWATER MANAGEMENT PLAN	DRAWING NUMBER	D02
DESIGNED	DM	SCALE	REFER DWG
DRAWN	DM	PAGE SIZE	A1
CHECKED	DI	REVISION	B



- STORMWATER NOTES:**
1. ALL PIPES TO BE 100mm Ø UNLESS NOTED OTHERWISE.
 2. ALL PIPES TO BE UPVC UNLESS NOTED OTHERWISE.
 3. ALL PIPES TO BE LAID AT 1 % MINIMUM GRADE UNLESS NOTED OTHERWISE.
 4. ALL PIPES SHALL BE LAID ON A 75mm SAND BED, COMPACTED TO 100% S.M.D.D. BELOW PAVEMENTS. (NO COMPACTION REQUIRED BELOW LANDSCAPING) COVER TO SURFACE FROM TOP OF PIPE TO BE 300mm MINIMUM. BACKFILL TO BE ADEQUATELY CONSOLIDATED AROUND PIPES BY METHOD OF RAMMING AND WATERING IN TRENCHES TO BE FILLED WITH GRANULAR MATERIAL AS SPECIFIED.
 5. ALL PIPES SHOWN ON PLAN ARE SHOWN INDICATIVELY ONLY & MINIMUM CLEARANCES FROM THE EXTERNAL WALLS OF BUILDINGS, FOR THE EXCAVATION OF TRENCHES, ARE TO BE PROVIDED IN ACCORDANCE WITH AS3500.
 6. ALL DOWN PIPES TO BE 90mm Ø UNLESS NOTED OTHERWISE.
 7. DOWN PIPE LOCATIONS ARE INDICATIVE ONLY. LOCATIONS TO BE CONFIRMED WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
 8. PROVIDE CLEANING EYES AT ALL DOWNPIPES UNO.
 9. ALL PITS GREATER THAN 1000mm DEEP SHALL HAVE STEP IRONS AS PER COUNCIL STANDARDS.
 10. ALL WORK TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS AND SPECIFICATIONS.
 11. ALL LEVELS SHOWN ARE TO AHD.
 12. ENSURE THAT ALL PITS AND STORMWATER PIPES ARE LOCATED CLEAR FROM TREE ROOT SYSTEMS.
 13. EXCAVATION OF TRENCHES ADJACENT TO TREES TO BE CARRIED OUT USING HAND TOOLS ONLY.
 14. ALL EXISTING EARTHWARE PIPES TO BE UPGRADED TO UPVC.
 15. ALL WORKS TO BE IN ACCORDANCE WITH AS 3500.
 16. THE FOLLOWING ABBREVIATIONS DENOTE:
FSL - FINISHED SURFACE LEVEL
INV - INVERT
 17. PROVIDE FALLS IN SURFACES TO ALL PITS, GRATED DRAINS & FLOOR DRAINS IN ACCORDANCE WITH AS3500 & ARCHITECT'S DETAILS.

RL65.15	DENOTES EXISTING LEVELS
RL65.15	DENOTES PROPOSED LEVELS

ON-SITE DETENTION (OSD) CALCULATION SHEET	
DEVELOPMENT TYPE:	MIXED USE DEVELOPMENT
DESIGN METHOD USED:	FULL COMPUTATION METHOD
SITE AREA:	1561 m ²
PRE DEVELOPMENT IMPERVIOUS AREA:	0 m ² (DRAINS)
POST DEVELOPMENT IMPERVIOUS AREA:	1561 m ²
INCREASE IN IMPERVIOUS AREA:	0 m ²
IMPERVIOUS AREA DRAINING TO OSD:	1526 m ²
PERVIOUS AREA DRAINING TO OSD:	0 m ²
IMPERVIOUS AREA BYPASSING OSD:	35 m ²
PERVIOUS AREA BYPASSING OSD:	0 m ²
PRE DEVELOPMENT SITE DISCHARGE (5-YEAR):	33 l/s
POST DEVELOPMENT SITE DISCHARGE (5-YEAR):	33 l/s
PRE DEVELOPMENT SITE DISCHARGE (20-YEAR):	50 l/s
POST DEVELOPMENT SITE DISCHARGE (20-YEAR):	34 l/s
PRE DEVELOPMENT SITE DISCHARGE (100-YEAR):	72 l/s
POST DEVELOPMENT SITE DISCHARGE (100-YEAR):	35 l/s
SITE STORAGE REQUIREMENT (SSR):	53.0 m ³
RAINFALL RE-USE TANK REQUIRED FOR BASIX:	10000 l
OSD VOLUME REQUIRED:	43.0 m ³
TYPE OF CONTROL:	SUSPENDED CONCRETE TANK BELOW LEVEL 1
OSD VOLUME PROVIDED:	53.3 m ³
DEPTH TO CENTRE OF ORIFICE:	0.977 m
ORIFICE SIZE:	125 mm Ø

LOWER GROUND FLOOR DRAINAGE & PART SITE STORMWATER MANAGEMENT PLAN
1:100

B	02.03.21	ISSUE FOR DA SUBMISSION
3	01.03.21	REVISED TO SUIT AMENDED ARCH DRAWINGS. ISSUE FOR REVIEW ONLY
A	27.10.20	ISSUE FOR DA SUBMISSION
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REV.	DATE	REVISION DESCRIPTION

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BY	REV.	DATE	REVISION DESCRIPTION

ARCHITECT	GARTNER TROVATO ARCHITECTS
CLIENT	CO-ORDINATED PROJECTS PTY LIMITED

STATUS	ISSUE FOR DA SUBMISSION	DATE	JUNE 2020
PROJECT	265 CONDOMINE & 1 KENNETH STREETS, MANLY VALE	PROJECT NUMBER	200602
DRAWING	LOWER GROUND FLOOR DRAINAGE & PART SITE STORMWATER MANAGEMENT PLAN	DRAWING NUMBER	D01
DESIGNED	DM	SCALE	REFER DWG
DRAWN	DM	PAGE SIZE	A1
CHECKED	DI	REVISION	B