



SITE AREA:

24 LAUDERDALE AVENUE, FAIRLIGHT, NSW 2094 NORTHERN BEACHES COUNCIL REGION 3, ZONE 1

**LEGEND** 

1<u>50Ø UPV</u>C •DP

SITE BOUNDARY EXISTING STORMWATER PIPE

PROPOSED GRATED PIT

RAINWATER TANK

PROPOSED PIPE SIZE AND FLOW DIRECTION

PROPOSED DOWNPIPE OVERLAND FLOW

ADDRESS: LOCAL GOVERNMENT AREA: DEVELOPMENT REGION:

461.6m<sup>2</sup> PROPOSED INCREASE IN IMPERMEABLE AREA:

POST DEVELOPMENT IMPERMEABLE AREA PERCENTAGE:

POST DEVELOPMENT IMPERMEARIE AREA DEVELOPMENT CONTROL REQUIREMENTS

GOVERNING DOCUMENT: WATER MANAGEMENT FOR DEVELOPMENT POLICY, DATED 26 FEBRUARY 2021

DESIGN STORMS: MINOR = 20% AFE

MAJOR = 1% AEP

## DISCHARGE ATTENUATION REQUIREMENT:

• FOR A DEVELOPMENT WHERE THE INCREASE IN IMPERMEABLE AREA PROPOSED IS < 50m<sup>2</sup> AND THE TOTAL POST DEVELOPMENT IMPERMEABLE AREA < 60% OF TOTAL SITE AREA, NO OSD IS

## STORMWATER DRAINAGE NOTES

- ON COMPLETION OF STORMWATER INSTALLATION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION, INCLUDING KERBS, FOOTPATHS, CONCRETE
  AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS, UNLESS DIRECTED OTHERWISE.
- PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.

- 2. PIPES 500 DIA AND DANCENT OB REINFORCED CONCRETE CLOSS 3 APPROVED 50 SPUICUL AND SOCIAL WITH RUBBER RING JUINTS, UNIO.

  3. PIPES UP TO 300 DIA SHALLE SEXYME GRADE UPVC WITH SOLVENT WELDED JOINTS.

  4. EQUIVALENT STRENGTH VCP OR FIX PIPES MAY BE USED.

  5. ALL STORMWARTE DRAININGE LINES UNDER RROPOSED BUILDING SLABS TO BE UPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE UPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.

  6. PIPES TO BE INSTALLED TO TYPE HAS (BOAD) HSZ (LIOTS) SUPPORT IN ACCORDANCE WITH AS 3725 (2007) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE
- 6. PIPES I BE RISS ILEGED TO TYPE TEST (RODA)) PEST (LIDIS) SUPPORT IN ACCORDANCE WITH AS 37/5 (2007)) IN ALL CASES MACREIL TRENKEN WITH SAND TO 300mm ABOVE 150mm LAYERS TO MINIMUM 888 STANDAGEM MANUAUM DAY POSSITY IN ACCORDANCE WITH AS 1280 5 25 1, (10% A DENSITY HONCE OF NOT LESS THAM 27).
  7. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPRY WITH THE REQUIREMENTS OF AS 3500 3.1 (2006) AND AS/NZS 3500 3.2 (2010).
  8. PICACAS PIES AND RE GUEST CENTERAL TO THE BUILDING SUBJECT TO APPROVAL BY THE CULI REGINIZER
  9. ENLANGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABBLICATED FITTINGS WHERE PIPES ARE LESS THAM 300 DLB.
  10. WHERE SUBSION LORINGS FLOOR SUBSET OF ADAPT WHEN THE SUBSTITUTE JUNC SEVERE REGISTED BY CONTROL OF THE SUBSTITUTE OF THE SUBSTITUTE SEVERE PIPE IS TO BE USED.

- 11. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL
- 12.GRATES AND COVERS SHALL CONFORM TO AS 3996.
- 13. ALL INTERNAL PIT DIMENSIONS TO CONFORM TO AS3500.3 TABLE 7.5.2.1
- 14.AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL
- FALING DOWN PITS.

  SALE EXISTING WATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED, DURING THIS PROCESS ANY PART OF THE
  SALE EXISTING CONNECTS STATE THAT WARRANGE REPORTED TO THE SUPERINTENDEST PROCESS OF DIRECTIONS.

  IS THE CONTRACTOR STO ORGANISE AND STAGE CONSTRUCTION WORK AND UNDERTAKE ANY DIVERSION WORKS TO ENSURE THE EXISTING DRAINAGE IS ABLE TO CONVEY
  ALL STORMAYER FLOWS THAT MAY OCCUR DURING THE PERIOD OF THE CONSTRUCTION WORK.

  17 ANY DAMAGE TO THE WORKS DUE TO STORMWATER FLOWS OR FLOODING DURING THE CONSTRUCTION PERIOD IS AT THE CONTRACTOR'S RISK.

  18 SETOUT POINTS FOR STORMWATER STRUCTURES ARE X INDICATED IN THE DRAININGS UNLESS OTHERWISE NOTED.

- 18.5ETOUT POINTS FOR STORMWATER STRUCTURES ARE AS INDICATED IN THE DRAWNINGS UNLESS OTHERWISE NOTICE.

  3.04.1 PAVED STRAFEGE LEVELS AND GRADESTO BE COCOMINATED WITH DULLY PIT LEVELS TO ENSURE NO UNDRAWNED AREAS OCCUR.

  20.THE SIDES OF ALL PIPET TRENCH EXCAVATIONS DEEPER THAN 1 DUM SHALL BE FULLY SUPPORTED AT ALL TIMES AND HAVE APPROPRIATE EDGE PROTECTION.

  2.14.1 LEVEL PIPET TO BE LIAD IN AN UPSTREAM DIRECTION. THE LINE, LEVEL AND LOCATION OF EXISTING SERVINGS CROSSINGS THE LINE OF THE PROPOSED STORMWATER PIPE SHALL BE DETERMINED BY EXCAVATION PRIOR TO THE LAWNO OF THE PIPE. IF CONFLICT IS ADPARENT, THE ENGINEER SHALL BE NOTIFIED AND INSTRUCTIONS AS TO WHICH THE THE EXISTING SERVING STO TO BE ADJUSTED. 22 PIPE BEDDING. HAUNCH AND BACKFILL TO BE AS SHOWN ON THE CIVIL DETAILS DRAWINGS AND THE CIVIL SPECIFICATION
- 23.SUBSOIL DRAINAGE PIPES TO BE SLOTTED PIPE AND FILTER SOCK CLASS 1000 TO AS2439 PART 1 LAID AT PREFERABLE MINIMUM GRADE 1 IN 100 OR ABSOLUTE MINIMUM 1 IN 200 WHERE LIMITED BY OUTFALL LEVELS. 24 STORMWATER STRUCTURES ARE TO BE CONSTRUCTED PERPENDICULAR TO THE INCOMING PIPEWORK LINLESS OTHERWISE NOTED
- 25.PRECAST COMPONENTS SHALL BE CONNECTED BY MEANS OF EPOXY OR CHEMICAL GROUTED BARS OF THE SAME DIAMETER AND SPACING AS THE SMALLER BARS IN THE 2-SPREAST COMPONENTS SHALL BE CONNECTED BY MEANS OF EPOXY OR CHEMICAL GROUTED BARS OF THE SAME DIAMETER AND SPACING AS THE SMALLER BAR RESPECTIVE COMPONENTS. 26 PRE-CAST PITS MUST HAVE LIFTING ANCHORS. 27 WORKING LOADS ARE THOSE DUE TO FILL MATERIAL AND STANDARD HIGHWAY VEHICLES AS PER AS3725. CONSTRUCTION LOADS HAVE NOT BEEN ALLOWED FOR. 28. ALL EXPOSED EDGES ON STORMWATER PITS TO BE ROUNDED TO Smm RAD. UNO.

				KATHRYN TURNER	
				KAIRKIN IONNEN	I
					1 \ 1
UPDATED TO SUIT REVISED ARCHITECTURAL LAYOUT	IAH	IAH	23.03.22		$\longrightarrow$
ISSUED FOR DA APPROVAL	IAH	IAH	12.10.21		
ISSUED FOR DA APPROVAL	IAH	IAH	15.09.21		NOBLE
ISSUED FOR DA APPROVAL	IAH	IAH	09.09.21		ARCHITECTURE
ISSUED FOR DA APPROVAL	IAH	IAH	06.09.21		AKOMILOTOKE

A1/ENILIE	
AVENUE	PLAN
FAIRLIGHT	
NSW 2094	



1:100 1 0 1 2 3 4 5 A1 1:200 A3