

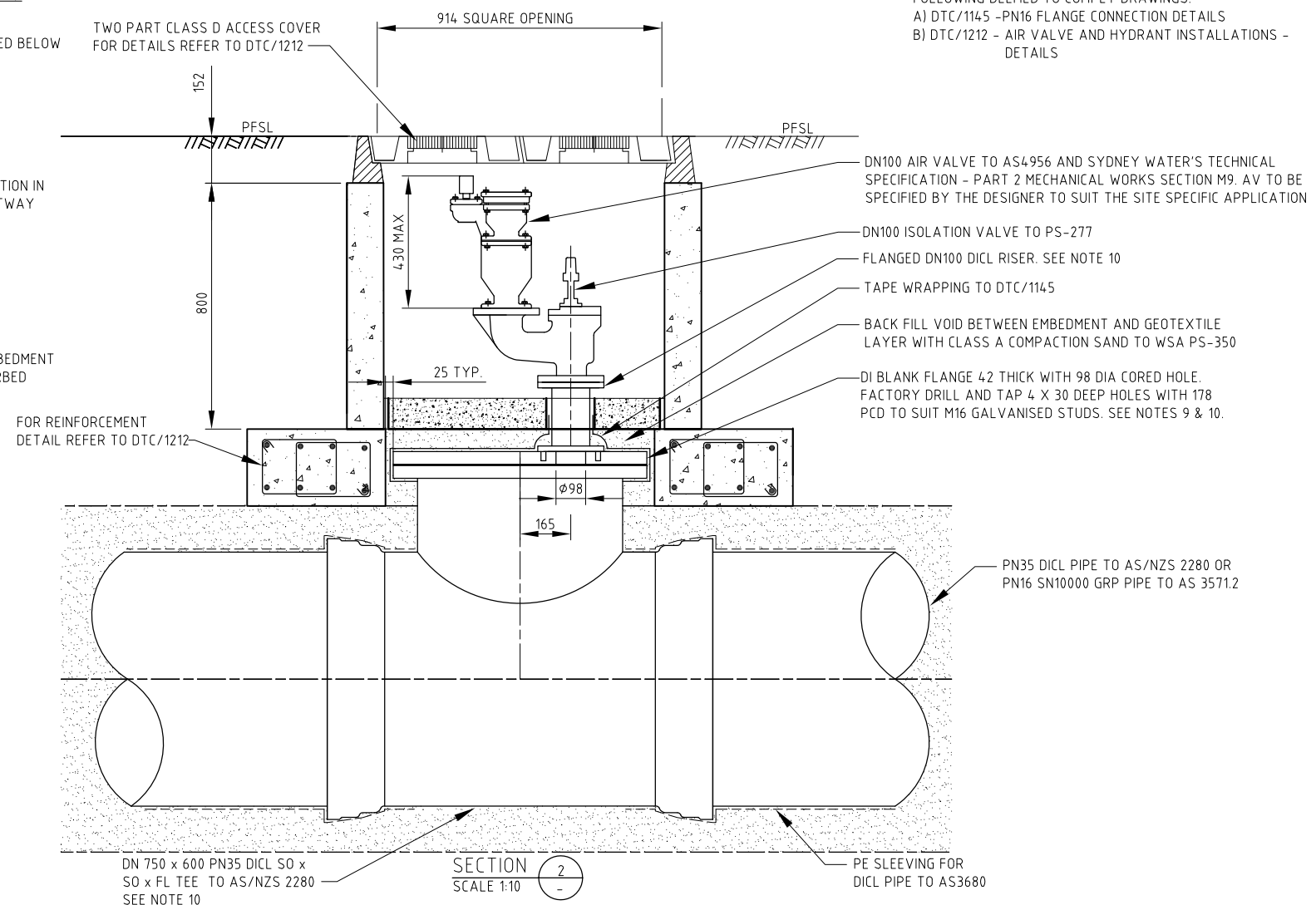
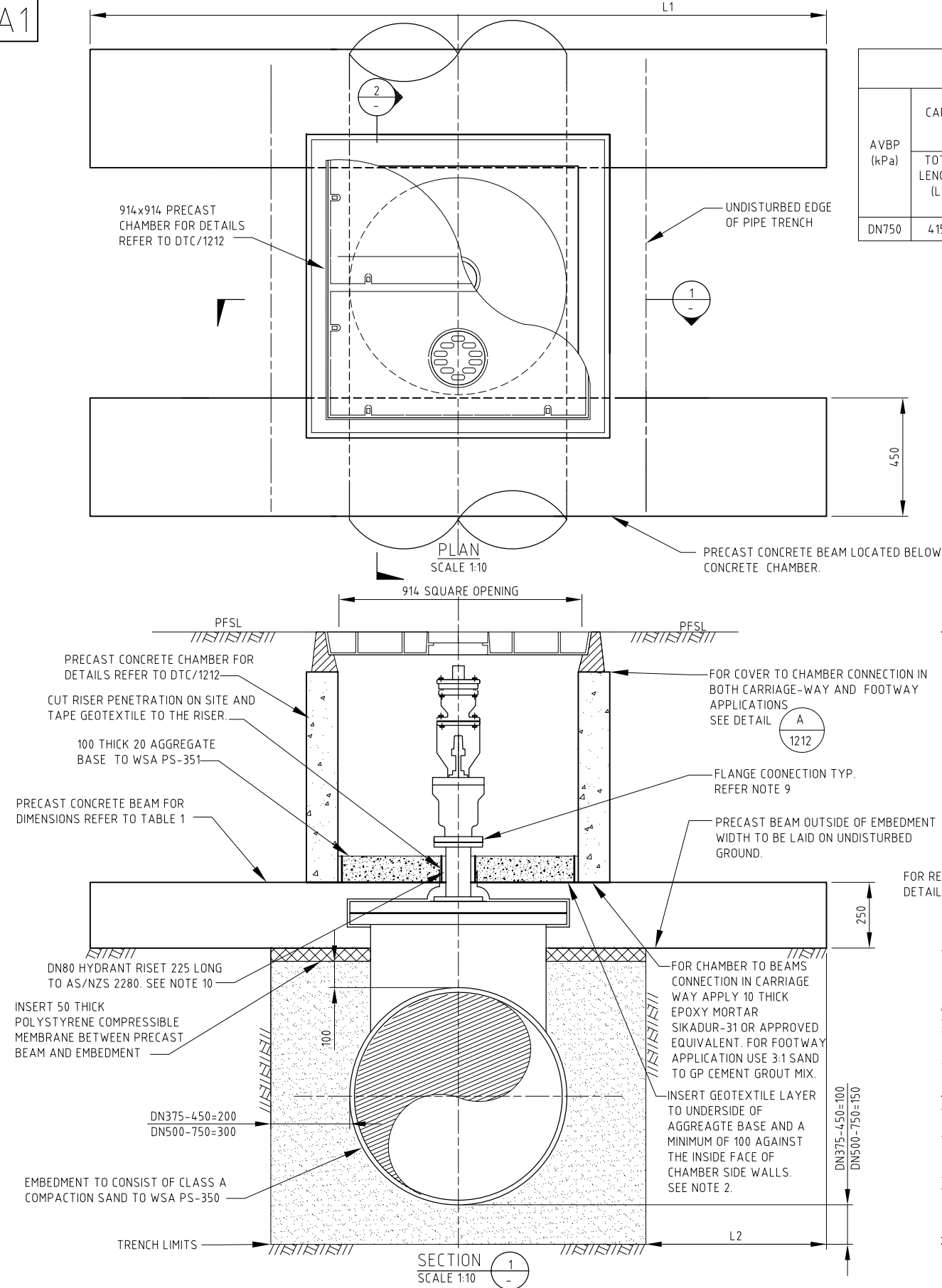
A1

THIS DRAWING MAY ONLY BE USED IN THE COURSE OF AND FOR THE PURPOSE OF CREATING SYDNEY WATER ASSETS. USE THIS DRAWING WITH CARE. THE USER IS RESPONSIBLE FOR THE CORRECT APPLICATION OF THIS DRAWING.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. GEOTEXTILE LAYER TO MEET CLASS C STRUCTURAL AND CLASS 4 PERMEABILITY PARAMETERS AS DETAILED IN THE ROADS AND MARITIME SERVICES QUALITY SPECIFICATION R67.
3. PRE-CAST CONCRETE CHAMBER DESIGNED TO SM1600 LOADS OF AS 5100.2. DESIGN LOAD FOR PRE-CAST CONCRETE SUPPORT BEAM BASED ON AS3996 - CLASS C RATING FOR FOOTWAY AND CLASS D RATING FOR CARRIAGE-WAY APPLICATIONS.
4. FOUNDATION MATERIALS TO BE INSPECTED AND APPROVED BY AN EXPERIENCED GEOTECHNICAL ENGINEER PRIOR TO POURING OF THE CONCRETE BASE. ANY OVER- EXCAVATION OR VOIDS IN THE FOUNDATION MATERIALS TO BE FILLED WITH CLASS N15 MASS CONCRETE TO AS 1379.
5. PIPELINE DESIGN BASED ON MAXIMUM DESIGN PRESSURE OF 120m AND TEST PRESSURE OF 150m OF WATER.
6. DESIGN IS NOT SUITABLE FOR APPLICATION IN AGGRESSIVE OR CONTAMINATED SOIL CONDITIONS.
7. TEST PRESSURE IS NOT TO BE APPLIED UNTIL CONCRETE ELEMENTS OF THE DESIGN HAVE REACHED AT LEAST 25MPA STRENGTH.
8. PRECAST CONCRETE BEAMS DIMENSIONS "L1" AND "L2" TO BE SHOWN ON WAC DRAWINGS.
9. ALL FLANGES SHALL BE TO DTC/1145. ALL FASTENERS SHALL BE GRADE 316 STAINLESS STEEL EXCEPT WHERE WRAPPED.
10. ALL DI FITTINGS SHALL BE COATED TO AS/NZS 4158.
11. WHERE PROPRIETARY PRODUCTS ARE SPECIFIED, THE PRODUCTS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
12. THIS DRAWING SHALL BE READ IN IN CONJUNCTION WITH THE FOLLOWING DEEMED TO COMPLY DRAWINGS.
A) DTC/1145 - PN16 FLANGE CONNECTION DETAILS
B) DTC/1212 - AIR VALVE AND HYDRANT INSTALLATIONS - DETAILS

TABLE 1- PRECAST CONCRETE BEAM SIZE										
AVBP (kPa)	CARRIAGE-WAY >100kPa		CARRIAGE-WAY >200kPa		CARRIAGE-WAY >400kPa		FOOTWAY >100kPa		FOOTWAY >200kPa	
	TOTAL LENGTH (L1)	SIDE SUPPORT LENGTH (L2)	TOTAL LENGTH (L1)	SIDE SUPPORT LENGTH (L2)	TOTAL LENGTH (L1)	SIDE SUPPORT LENGTH (L2)	TOTAL LENGTH (L1)	SIDE SUPPORT LENGTH (L2)	TOTAL LENGTH (L1)	SIDE SUPPORT LENGTH (L2)
DN750	4150	1350	2800	675	2150	350	3100	825	2300	425



Sydney
WATER

APPROVED

PETER GILLMAN
MANAGER - E & ES

DEEMED TO COMPLY DRAWINGS

AIR VALVE INSTALLATIONS
MAINTENANCE ACCESSIBLE
DI & GRP WATER MAINS DN750

DTC
1209

ISSUE	DATE
A	01/03/13

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ENGINEERING & ENVIRONMENTAL SERVICES

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LETTER	DETAILS OF ISSUE / AMENDMENT	APP'D	DATE