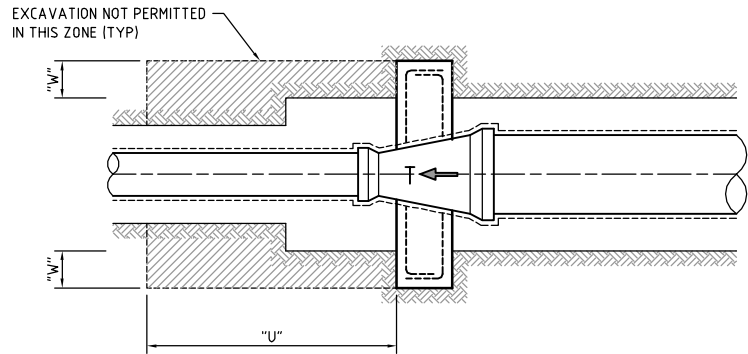
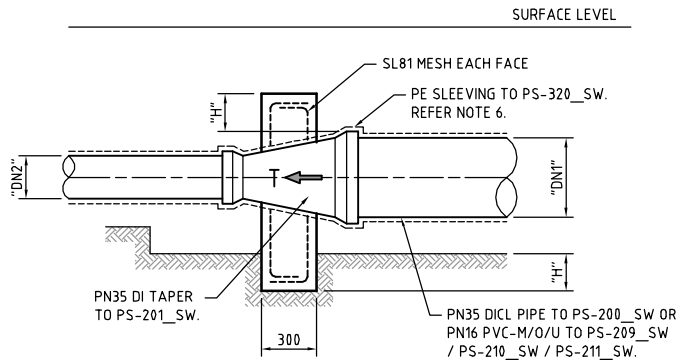


DETAILS OF AREA TO BE CAST AGAINST UNDISTURBED GROUND
ELEVATION
SCALE 1:20



DETAILS OF AREA TO BE CAST AGAINST UNDISTURBED GROUND
PLAN
SCALE 1:20



THRUST BLOCK REINFORCEMENT DETAIL
SCALE 1:20

THRUST BLOCK AREAS & DIMENSIONS FOR TAPERS - TYPE 1 (m²)

DN1	OD1	DN2	OD2	DESIGN PRESSURE HEAD	TEST PRESSURE HEAD	THRUST T	SOIL AHBP	REQUIRED BEARING AREA	H	MINIMUM TRENCH WIDTH	W	U
(mm)	(mm)	(mm)	(mm)	(m)	(m)	(kN)	(kPa)	(m ²)	(mm)	(mm)	(mm)	(mm)
150	177	100	122	120	150	19.0	50	0.380	200	380	300	1550
150	177	100	122	120	150	19.0	100	0.190	100	380	300	1200
150	177	100	122	120	150	19.0	200	0.095	100	380	300	1200
200	232	100	122	120	150	45.0	50	0.900	400	530	350	2350
200	232	100	122	120	150	45.0	100	0.450	200	530	300	1650
200	232	100	122	120	150	45.0	200	0.225	100	530	300	1300
200	232	150	177	120	150	26.0	50	0.520	250	530	300	1850
200	232	150	177	120	150	26.0	100	0.260	100	530	300	1350
200	232	150	177	120	150	26.0	200	0.130	100	530	300	1350
250	286	100	122	120	150	77.3	50	1.546	400	590	650	2400
250	286	100	122	120	150	77.3	100	0.773	350	590	300	2200
250	286	100	122	120	150	77.3	200	0.386	150	590	300	1500
250	286	150	177	120	150	58.3	50	1.166	400	590	450	2400
250	286	150	177	120	150	58.3	100	0.583	250	590	300	1900
250	286	150	177	120	150	58.3	200	0.291	100	590	300	1400
250	286	200	232	120	150	32.3	50	0.646	300	590	300	2100
250	286	200	232	120	150	32.3	100	0.323	100	590	300	1450
250	286	200	232	120	150	32.3	200	0.162	100	590	300	1450
250	286	225	259	120	150	17.0	50	0.340	100	590	300	1450
250	286	225	259	120	150	17.0	100	0.170	100	590	300	1450
250	286	225	259	120	150	17.0	200	0.085	100	590	300	1450
300	345	100	122	120	150	120.3	50	2.406	500	650	800	2750
300	345	100	122	120	150	120.3	100	1.203	500	650	350	2750
300	345	100	122	120	150	120.3	200	0.601	250	650	300	1900
300	345	150	177	120	150	101.3	50	2.026	450	650	750	2650
300	345	150	177	120	150	101.3	100	1.013	450	650	300	2650
300	345	150	177	120	150	101.3	200	0.506	200	650	300	1800
300	345	200	232	120	150	75.3	50	1.506	450	650	500	2700
300	345	200	232	120	150	75.3	100	0.753	300	650	300	2150
300	345	200	232	120	150	75.3	200	0.377	100	650	300	1450
300	345	225	259	120	150	60.0	50	1.200	400	650	450	2550
300	345	225	259	120	150	60.0	100	0.600	250	650	300	2000
300	345	225	259	120	150	60.0	200	0.300	100	650	300	1500
300	345	250	286	120	150	43.0	50	0.860	350	650	300	2400
300	345	250	286	120	150	43.0	100	0.430	150	650	300	1700
300	345	250	286	120	150	43.0	200	0.215	100	650	300	1500

NOTES:

- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
- THRUST BLOCKS DESIGNED TO WITHSTAND A DESIGN PRESSURE OF 120m AND A TEST PRESSURE OF 150m HEAD OF WATER.
- THE ALLOWABLE HORIZONTAL BEARING PRESSURE (AHBP) OF UNDISTURBED NATURAL SOIL TO BE DETERMINED BY A SUITABLY EXPERIENCED GEOTECHNICAL ENGINEER PRIOR TO CASTING THRUST BLOCKS.
- CAST THE THRUST AREA OF ALL THRUST BLOCKS AGAINST A CLEAN FACE OF UNDISTURBED NATURAL SOIL. THRUST BLOCKS NOT TO INTERFERE WITH OTHER SERVICES.
- DO NOT USE THRUST BLOCKS SPECIFIED IN THIS DRAWING IN SOILS WHERE AHBP<50kPa.
- ALL DI FITTINGS AND PIPES TO BE WRAPPED IN POLYETHYLENE SLEEVING. TAPE 700 LONG PE SLEEVING TO END OF DICL PIPE TO BE ENCASED 150 FROM THE SOCKET FACE TO OVERLAP PE SLEEVED DICL PIPE. WHEN CONNECTING TO PVC PIPE (WITHOUT PE SLEEVE) TAPE 700 LONG PE SLEEVE TO PVC PIPE. POLYETHYLENE SLEEVING TO PS-320_SW.
- CONCRETE SHALL BE CLASS N25 TO PS-357_SW. SLUMP SHALL BE IN THE RANGE 80mm – 120mm. MAXIMUM NOMINAL AGGREGATE SIZE SHALL BE 20mm.
- ALL REINFORCEMENT SHALL BE TO AS4671 SHAPE-D. STRENGTH GRATE= 500MPa, DUCTILITY CLASS-N.
- MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE 70mm.
- CONCRETE SHALL ACHIEVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa OR BE CURED FOR A MINIMUM OF 28 DAYS PRIOR TO APPLICATION OF THRUST LOADS.
- THRUST BLOCK DESIGNS SHOWN ON THIS DRAWING ARE NOT SUITABLE FOR USE IN AGGRESSIVE OR CONTAMINATED SOILS.