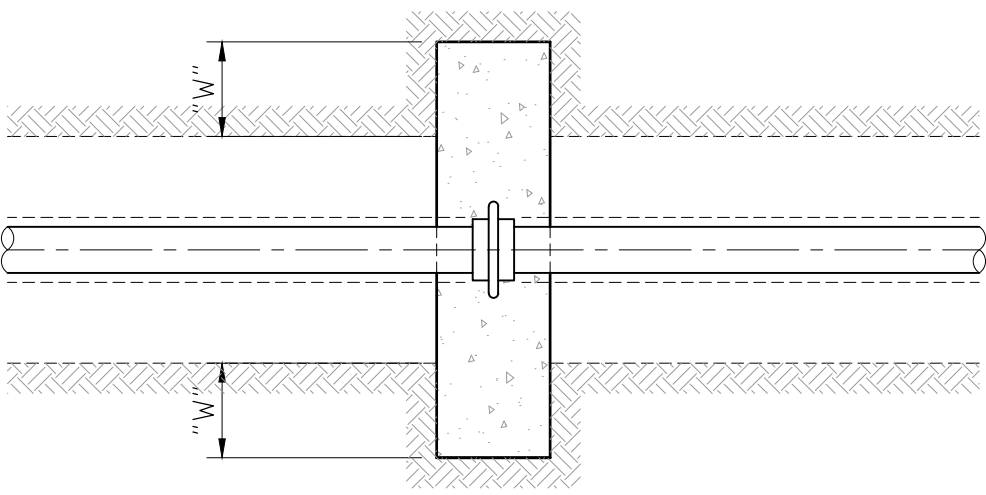
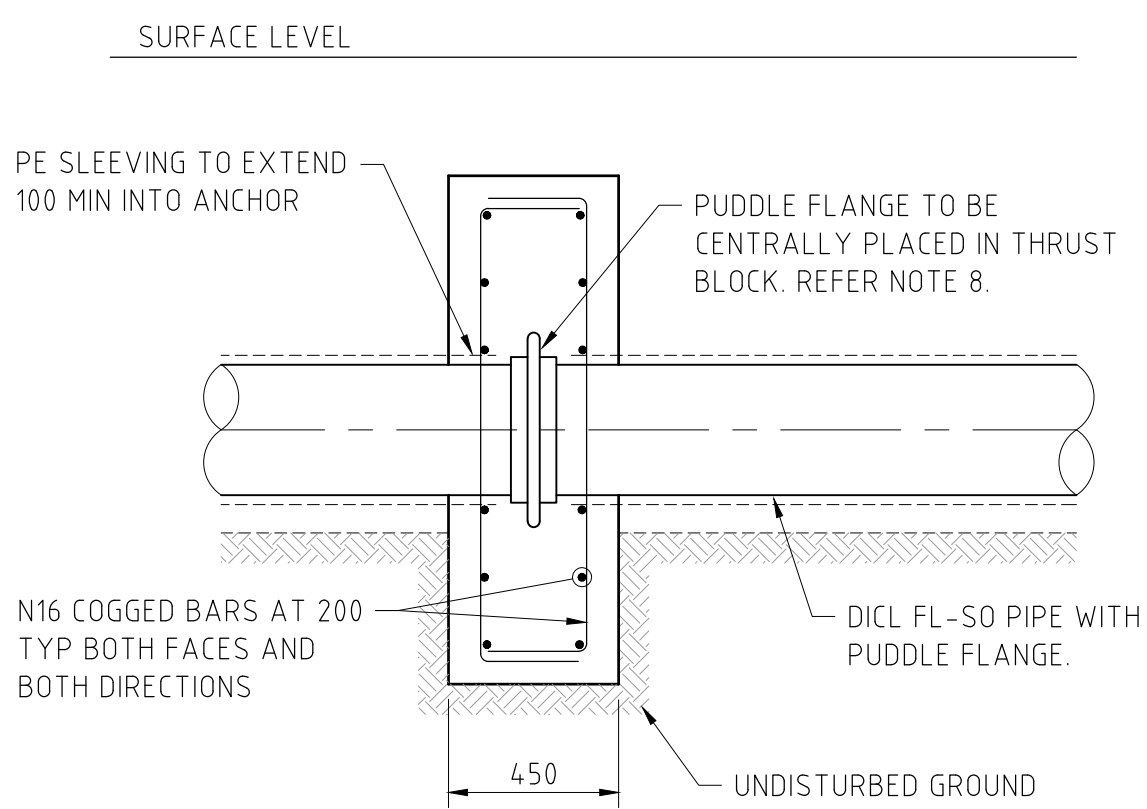


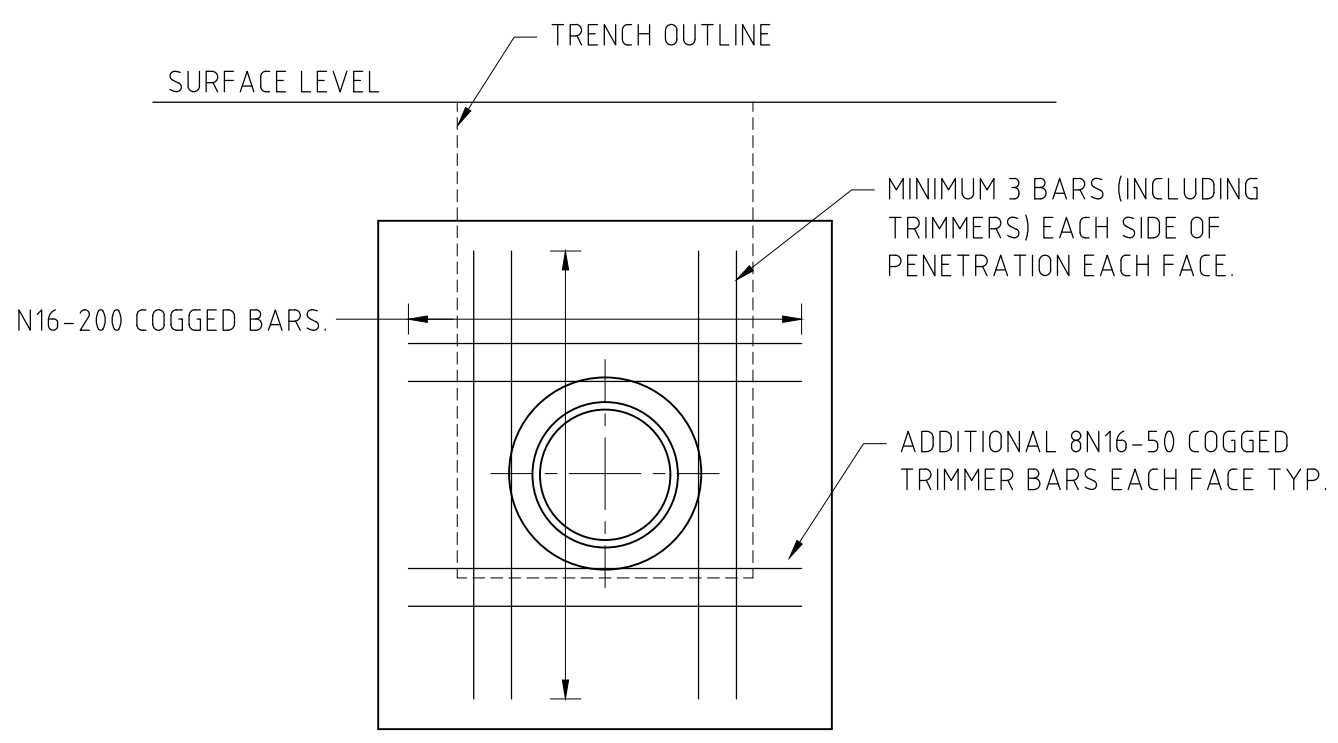
STOP VALVE THRUST BLOCKS  
ELEVATION  
SCALE 1:20



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



THRUST BLOCK DETAILS FOR DN200,  
DN250 AND DN300 STOP VALVES  
SCALE 1:20

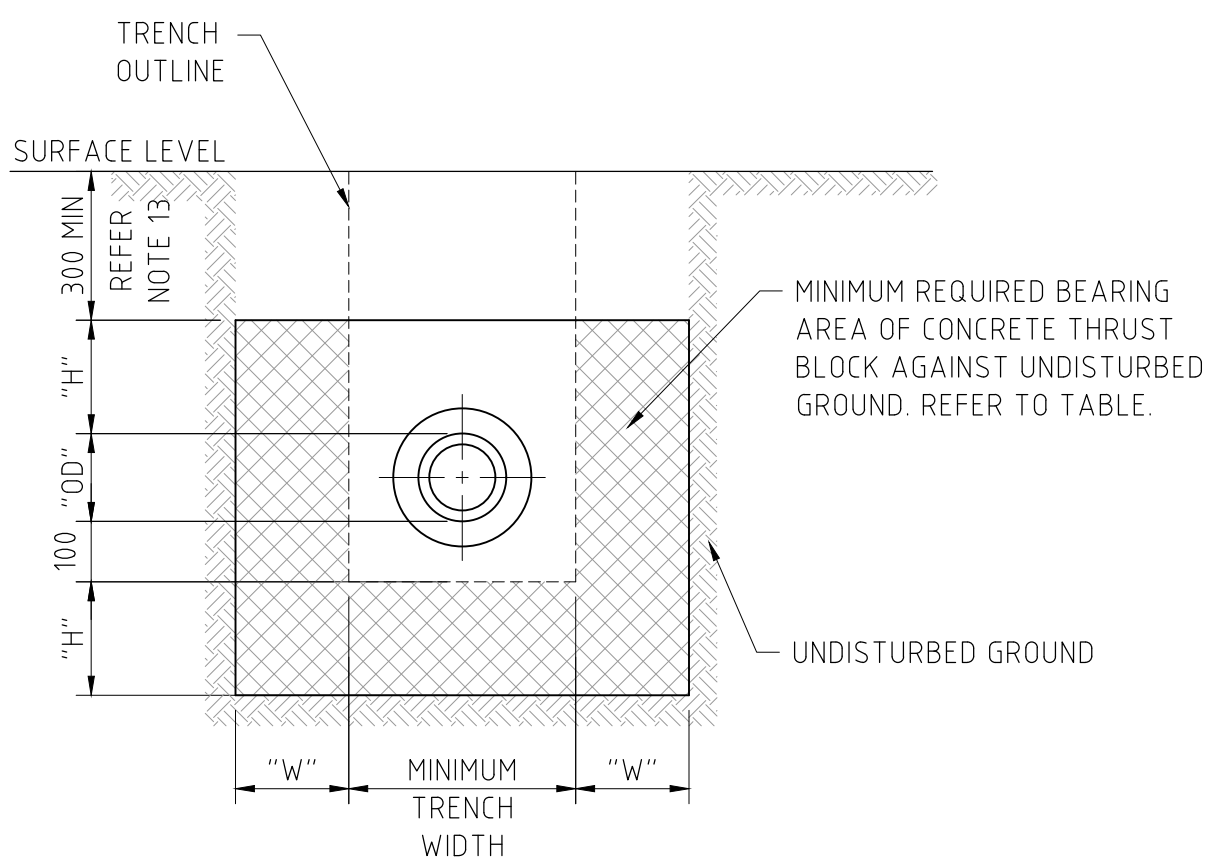


DN200, DN250 AND DN300 VALVE  
THRUST BLOCK REINFORCEMENT DETAIL  
SCALE 1:20

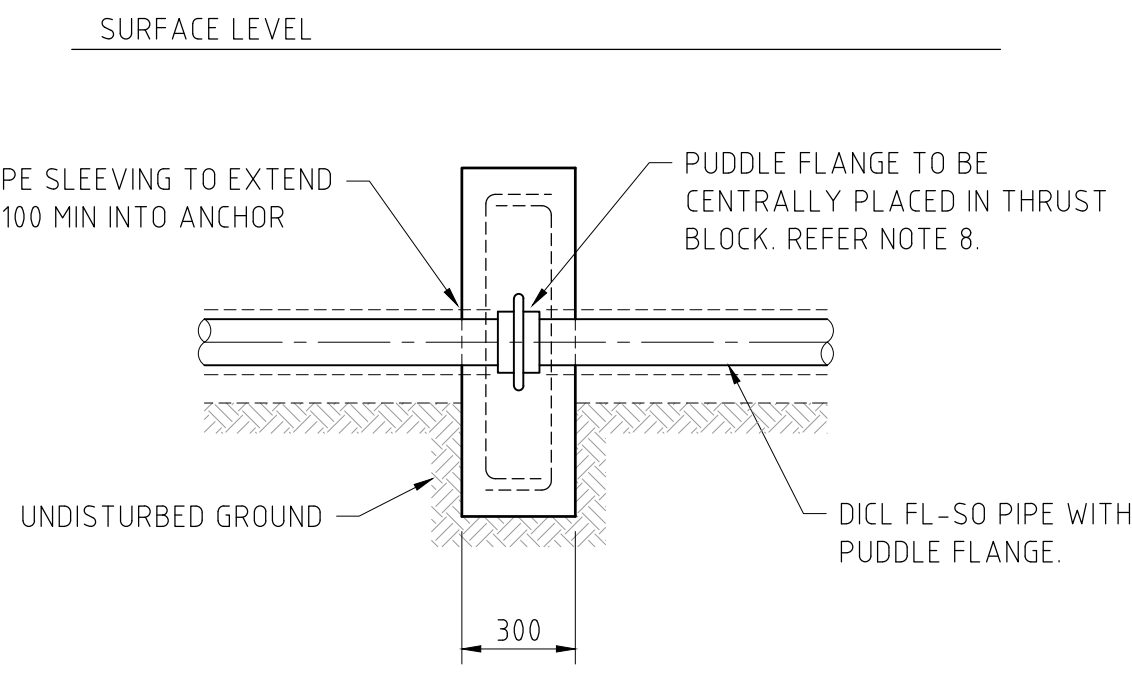
THRUST BLOCK AREAS & DIMENSIONS FOR STOP VALVES (m<sup>2</sup>)

DN	OD	DESIGN PRESSURE HEAD	TEST PRESSURE HEAD	THRUST	SOIL TYPE (REFER TO NOTE 12)	REQUIRED BEARING AREA	MINIMUM TRENCH WIDTH	NUMBER ANCHORS	H	W
(mm)	(mm)	(m)	(m)	(kN)		(m <sup>2</sup> )	(mm)		(mm)	(mm)
100†	122	120	150	17.2	S1	0.344	320	1	200	300
100†	122	120	150	17.2	S2	0.172	320	1	200	200
100†	122	120	150	17.2	S3	0.086	320	1	200	200
150†	177	120	150	36.2	S1	0.724	380	1	300	400
150†	177	120	150	36.2	S2	0.724	380	2*	300	200
150†	177	120	150	36.2	S3	0.362	380	1	300	200
150†	177	120	150	36.2	S1	0.181	380	1	300	200
200†	232	120	150	62.2	S2	1.243	530	1	300	600
200†	232	120	150	62.2	S3	1.243	530	2*	300	300
200†	232	120	150	62.2	S1	0.622	530	1	300	300
200†	232	120	150	62.2	S2	0.311	530	1	300	200
250	286	120	150	94.5	S3	1.889	590	1	300	900
250	286	120	150	94.5	S1	1.889	590	2*	300	400
250	286	120	150	94.5	S2	0.945	590	1	300	400
250	286	120	150	94.5	S3	0.945	590	2*	300	200
250	286	120	150	94.5	S1	0.472	590	1	300	200
300	345	120	150	137.5	S2	2.749	650	1	350	1200
300	345	120	150	137.5	S3	2.749	650	2*	350	600
300	345	120	150	137.5	S1	1.375	650	1	350	600
300	345	120	150	137.5	S2	1.375	650	2*	350	300
300	345	120	150	137.5	S3	0.687	650	1	350	300

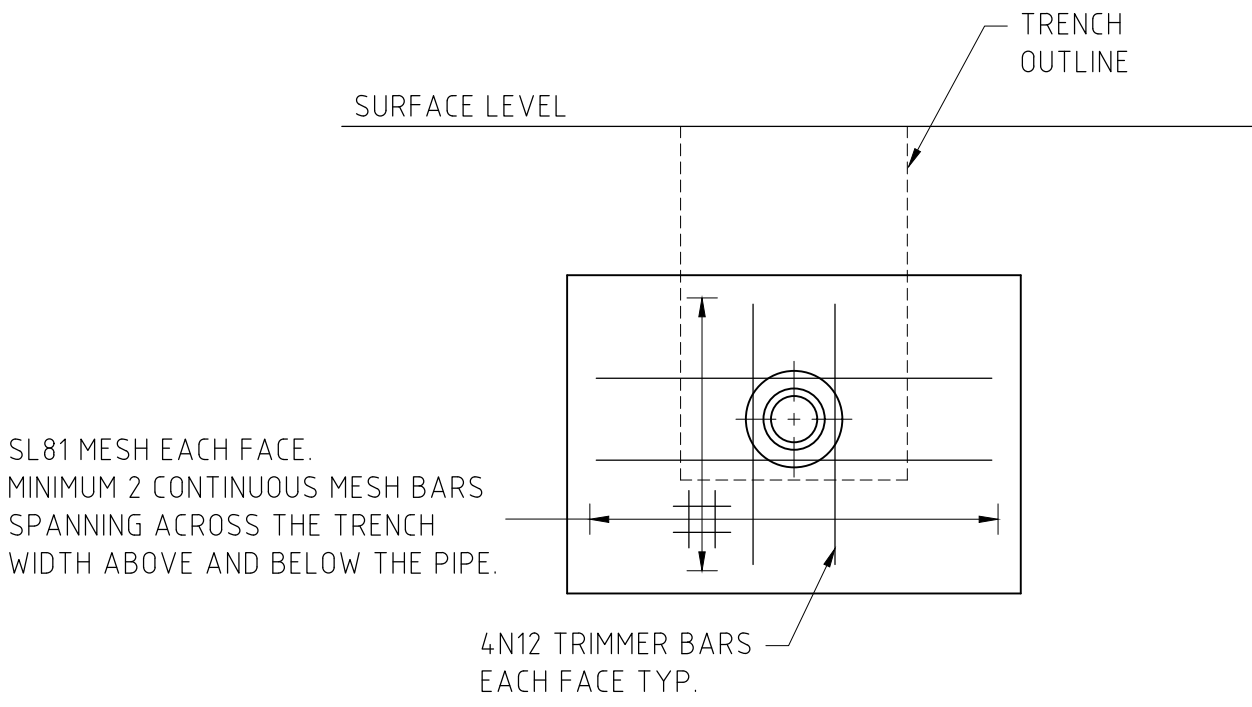
NOTE:  
† THRUST BLOCKS ARE GENERALLY NOT REQUIRED FOR STOP VALVES ≤ DN200, BUT THEY MAY BE NEEDED IN SOME CIRCUMSTANCES.  
\* SINGLE THRUST BLOCK TO BE USED WHEREVER POSSIBLE.



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



THRUST BLOCK DETAILS FOR DN100  
AND DN150 STOP VALVES  
SCALE 1:20



DN100 AND DN150 VALVE  
THRUST BLOCK REINFORCEMENT DETAIL  
SCALE 1:20

NOTES:

- THIS DRAWING MUST BE READ IN CONJUNCTION WITH DTC/1100.
- THRUST BLOCKS DESIGNED TO WITHSTAND A DESIGN PRESSURE OF 120m AND A TEST PRESSURE OF 150m HEAD OF WATER.
- CAST THE THRUST AREA OF ALL THRUST BLOCKS AGAINST A CLEAN FACE OF UNDISTURBED NATURAL SOIL.
- DO NOT USE THRUST BLOCKS AS SPECIFIED IN THIS DRAWING IN SOILS WHERE THE NATURAL SOILS DOES NOT MEET THE MINIMUM REQUIREMENTS IN TABLE F6 ON DTC/1100.
- DI PIPE AND FITTINGS TO BE WRAPPED IN PE SLEEVING. WHEN CONNECTING TO PVC OR GRP PIPE (WITHOUT PE SLEEVE), PE SLEEVE TO BE TAPED TO PIPE 500mm PAST JOINT TO DICL SOCKET.
- ALL DICL PIPES SHALL BE TO FLANGE CLASS U.N.O ALL DICL FITTINGS SHALL BE CLASS PN35.
- DI FLANGES SHALL BE TO AS4087 CLASS 16. BOLTS AND WASHERS SHALL BE GRADE 316SS.
- PUDDLE FLANGE SHALL BE FACTORY FITTED BOLT ON FULL THRUST RESTRAINT TYPE IN ACCORDANCE WITH AS2280.
- DO NOT APPLY ANY THRUST LOADS FOR AT LEAST 14 DAYS AFTER POURING CONCRETE.
- DO NOT LOCATE STOP VALVES, HYDRANTS OR ANCHOR BLOCKS IN DRIVEWAYS.
- NUMBER AND LOCATION OF ANCHOR BLOCKS SHALL BE RECORDED ON WORK AS CONSTRUCTED DRAWINGS.
- REFER TO TABLE F6 ON DTC/1100 FOR SOIL TYPES.
- MINIMUM COVER OF 750mm MUST BE PROVIDED WHERE A THRUST BLOCK SIZED FOR SOIL TYPE S2 IS INSTALLED IN THE CORRESPONDING SAND MATERIAL (REFER TO NOTE 12). ALTERNATIVELY, USE A THRUST BLOCK SIZED FOR SOIL TYPE S1.
- ONE HYDRANT MAY BE OMITTED WHERE APPROPRIATE, AS DETERMINED IN CONSULTATION WITH SYDNEY WATER.
- FL-SO DI CONNECTOR AND SP-SP DICL PIPE (600 LONG) MAY BE USED IN LIEU OF FL-SP DICL PIPE.