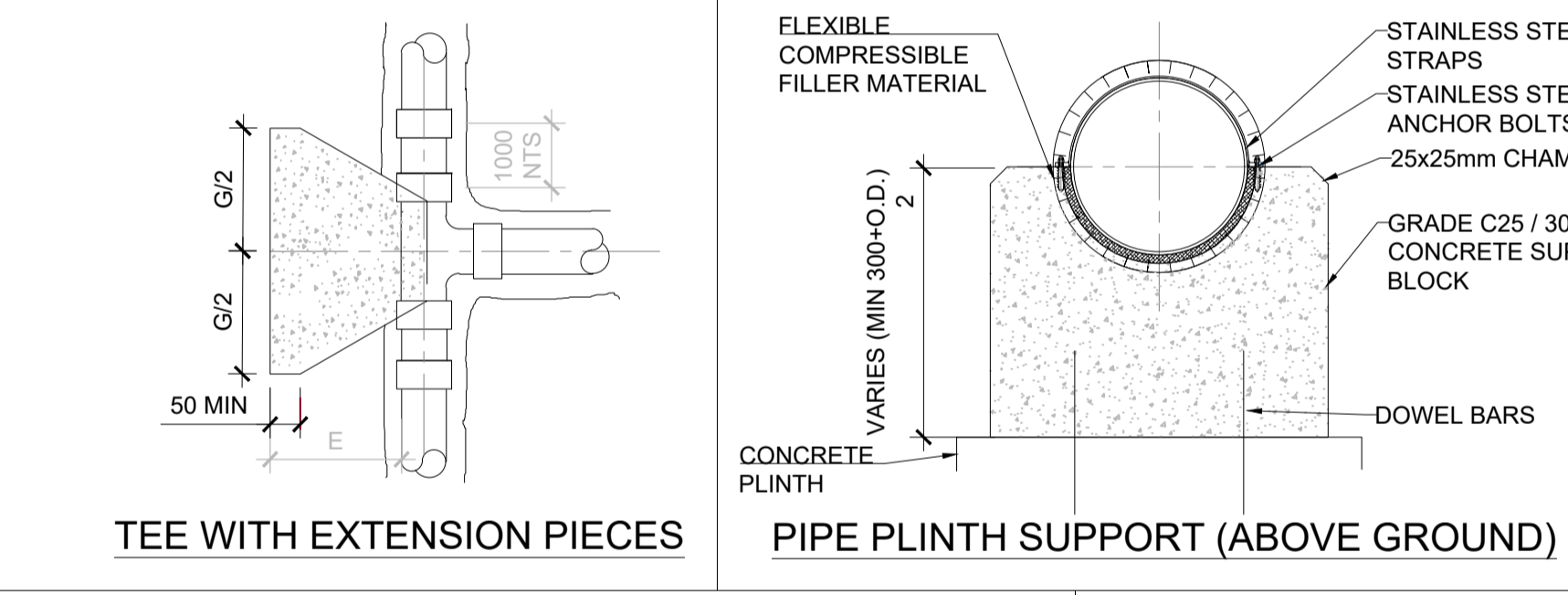
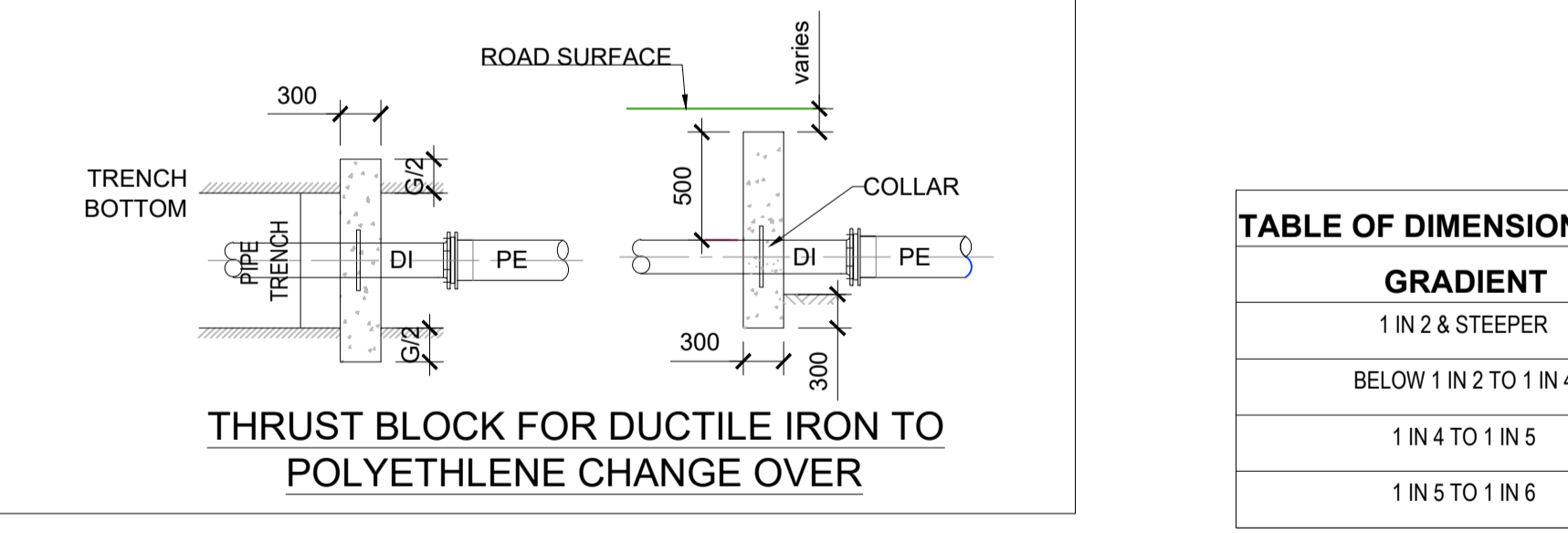


**WATERMAIN MARKER POSTS**  
Scale 1:20



- ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
- CONCRETE THRUST BLOCKS (ANCHORAGE) SHALL BE POSITIONED SYMMETRICALLY WITH RESPECT TO THE CONNECTING PIPE & BENDS.
- TRENCH DIMENSIONS - REFER TO DRAWINGS No.s STD-WW-07.
- THRUST BLOCKS SHALL BEAR ON UNDISTURBED SOIL. IF FOR ANY REASON THEY CANNOT THEN THE DEVELOPER SHALL NOTIFY IRISH WATER IMMEDIATELY WITH A PROPOSED SOLUTION.
- THRUST BLOCK REINFORCEMENT REQUIRES SPECIFIC DESIGN.
- FOR TEST PRESSURES GREATER THAN 18 BAR, THRUST BLOCK DESIGN IS TO BE SUBMITTED TO OPW C&S ENG. FOR REVIEW.
- THRUST BLOCKS ARE DESIGNED FOR AN AVERAGE BEARING PRESSURE OF 100 KN/m (TYPICAL FOR SOFT CLAY) FOR OTHER CONDITIONS, ACTUAL DIMENSIONS MAY BE ALTERED ON INSTRUCTIONS FROM OPW C&S ENG.
- CONCRETE IN THRUST BLOCKS SHALL BE GRADE C20/25 IN ACCORDANCE WITH IS EN 206.
- COMPRESSIBLE FILLER FOR CONCRETE PROTECTION TO BE IN ACCORDANCE WITH BS EN 622-1 AND BS EN 622-4. BITUMINOUS MATERIAL SHALL NOT BE PUT IN CONTACT WITH PLASTIC PIPES. THE THICKNESS OF COMPRESSIBLE FILLER FOR MAINS < 450mm IN DIAMETER IS TO BE 18mm.
- CONCRETE THRUST BLOCKS FOR POLYETHYLENE PIPE TO COMPLY WITH THE MANUFACTURER'S REQUIREMENTS.
- POLYETHYLENE PIPES SHALL BE WRAPPED IN PLASTIC SHEETING HAVING A COMPOSITION IN ACCORDANCE WITH BS 6076 BEFORE BEING CAST INTO CONCRETE.



GRADIENT	SPACING
1 IN 2 & STEEPER	5.5m
BELOW 1 IN 2 TO 1 IN 4	11.0m
1 IN 4 TO 1 IN 5	16.6m
1 IN 5 TO 1 IN 6	22.0m

NOM Ø mm	DIMENSIONS									
	A	B	C	D	E	F	G	H	J	K
100	600	330	160	80	200	350	390	700	600	400
150	950	510	260	130	225	450	660	900	750	600
200	1150	600	310	160	300	650	790	1050	900	700
250	1350	750	380	200	300	800	970	1200	1000	750
300	1600	850	450	220	320	950	1110	1300	1100	850
350	2100	1150	570	290	450	1000	1450	1550	1200	900
400	2550	1400	700	350	500	1050	1800	1700	1250	1000
450	3000	1630	830	420	680	1100	2130	1800	1450	1150
500	3600	1950	990	500	800	1200	2540	1950	1600	1250
600	4100	2200	1120	570	850	1400	2880	2100	1700	1300

NOM Ø mm	DIMENSIONS									
	A	B	C	D	E	F	G	H	J	K
100	700	380	190	100	200	350	510	750	600	400
150	1135	620	320	160	225	450	760	950	750	600
200	1400	750	380	190	300	650	980	1150	950	700
250	1730	940	480	240	320	800	1210	1350	1050	850
300	2090	1130	580	300	380	950	1480	1500	1200	950
350	2600	1410	720	360	500	1050	1840	1700	1350	1050
400	2980	1610	820	420	750	1200	2110	1850	1500	1150
450	3400	1840	940	470	900	1300	2330	2000	1600	1250
500	4090	2210	1130	570	1000	1400	2890	2200	1750	1350
600	5010*	2710*	1380	700	1000	1500	3550*	2350	1900	1500

NOM Ø mm	DIMENSIONS									
	A	B	C	D	E	F	G	H	J	K
100	750	400	250	100	220	400	530	800	650	400
150	1250	700	350	180	250	500	890	1000	850	650
200	1650	890	450	230	320	700	1170	1250	1000	800
250	1950	1060	540	270	350	900	1370	1450	1150	900
300	2300	1200	640	320	500	1100	1630	1650	1300	1050
350	2930	1580	830	410	750	1200	2070	1850	1500	1150
400	3510	1900	970	190*	1000	1300	2490	2000	1600	1250
450	3810	2270	1160	580	1000	1350	2970	2150	1700	1350
500	4340*	2380	1210	610	1000	1400	3700	2250	1750	1400
600	6370*	3450*	1760	890	1000	1500	4500*	2400	2050	1650

- General Notes:**
- Refer to drawing 2889-DR-001 & 2889-DR-002 for General Notes.
  - This drawing is to be read in conjunction with all other Engineers, Architects and Suppliers drawings, specifications and Risk Assessments.
  - The Contractor shall notify the OPW Project Engineer (C&S) of any discrepancies between drawings, the specification and site conditions and seek clarification before implementing the work.
  - Figured dimensions only to be taken from this drawing, do not scale. All setting out, levels and dimensions shall be established from the Architects drawings. As built dimensions and levels shall be confirmed on site where necessary.
  - The Contractor is responsible for the design of all Temporary Works to safely execute the permanent works shown on these drawings.
  - All dimensions are in millimeters unless noted otherwise. All levels are structural levels in meters Ordnance datum (m OD), unless noted otherwise.
  - All work is to conform with the requirements of the latest editions of the Building Regulations, Health and safety Regulations and all codes of practice and standards referenced.
  - All work shall be in compliance with the Planning Permission conditions for the project.
  - All services shown are indicative only, the contractor must verify all underground services prior to any excavation taking place on site.
  - All surfaces to be reinstated after works to match existing ground.

Revision	Date	By	Chk'd	Description
P0	11/08/22	DH	EC	Issued for Information

**Civil & Structural Engineering**  
 Assistant Chief Engineer: Kieran Walsh  
 Grade 1 Engineer: Tim McDonnell  
 Project Engineer: Enda Cusack



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Project Title:  
**Trim Market Centre Refurbishment**  
 Castle Street, Trim,  
 Co.Meath

Drawing Title:  
**Watermain Details**  
 Sheet 2

Project Role: Civil & Structural	OPW Section Project Reference: 2889
Drawn: DH	Checked: EC
Approved: Tmcd	Date: 11/08/22
Status Description: Preliminary	Revision: P0

Drawing Number:  
**2889-DR-4003**