TOOREEN AGHAMORE GWS

WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

TENDER DRAWINGS

November 2026

occe
O Conaire Consulting Engineers

DRG. NO.	TITLE	DRG. NO.	TITLE
WD 00	KEY PLAN	WD 13	KEY PLAN TO METER LOCATIONS
WD 01	LAYOUT PLAN AND LONGITUDINAL SECTION OF PROPOSED WATERMAIN AT CARROWNEDEN (A1 TO A2 660m & B1 TO B2 410m)	WD 14	LAYOUT PLAN SHOWING EXISTING CONSUMER METER UNIT AND BULK METER LOCATIONS (SHEET 1 OF 9)
WD 02	LAYOUT PLAN AND LONGITUDINAL SECTION OF PROPOSED WATERMAIN AT CARTRON (C1 TO C5 1500m)	WD 15	LAYOUT PLAN SHOWING EXISTING CONSUMER METER UNIT AND BULK METER LOCATIONS (SHEET 2 OF 9)
WD 03	LAYOUT PLAN AND LONGITUDINAL SECTION OF PROPOSED WATERMAIN AT CARTRON (C2 TO H1, 820m)	WD 16	LAYOUT PLAN SHOWING EXISTING CONSUMER METER UNIT AND BULK METER LOCATIONS (SHEET 3 OF 9)
WD 04	LAYOUT PLAN AND LONGITUDINAL SECTION OF PROPOSED WATERMAIN AT CARNBEG (D1 TO D4, 1400m)	WD 17	LAYOUT PLAN SHOWING EXISTING CONSUMER METER UNIT AND BULK METER LOCATIONS (SHEET 4 OF 9)
WD 05	LAYOUT PLAN AND LONGITUDINAL SECTION OF PROPOSED WATERMAIN AT CARNBEG (D3 TO E1, 580m)	WD 18	LAYOUT PLAN SHOWING EXISTING CONSUMER METER UNIT AND BULK METER LOCATIONS (SHEET 5 OF 9)
WD 06	LAYOUT PLAN AND LONGITUDINAL SECTION OF PROPOSED WATERMAIN AT CROSSARD (F1 TO F4, 920m)	WD 19	LAYOUT PLAN SHOWING EXISTING CONSUMER METER UNIT AND BULK METER LOCATIONS (SHEET 6 OF 9)
WD 07	LAYOUT PLAN AND LONGITUDINAL SECTION OF PROPOSED WATERMAIN AT CLOONGOWNAGH (G1 TO G4, 600m)	WD 20	LAYOUT PLAN SHOWING EXISTING CONSUMER METER UNIT AND BULK METER LOCATIONS (SHEET 7 OF 9)
WD 08	PIPE CONNECTION DETAILS	WD 21	LAYOUT PLAN SHOWING EXISTING CONSUMER METER UNIT AND BULK METER LOCATIONS (SHEET 8 OF 9)
WD 09	STANDARD DETAILS (SHEET 1 OF 2)	WD 22	LAYOUT PLAN SHOWING EXISTING CONSUMER METER UNIT AND BULK METER LOCATIONS (SHEET 9 OF 9)
WD 10	STANDARD DETAILS (SHEET 2 OF 2)	SI 01	TRIAL HOLE DETAILS (SHEET 1 OF 2)
WD 11	VALVE AND METER CHAMBERS (SHEET 1 OF 2)	SI 02	TRIAL HOLE DETAILS (SHEET 2 OF 2)
WD 12	VALVE AND METER CHAMBERS (SHEET 1 OF 2)		

LEGEND

NOTES
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REV:	DATE:	REVISION NOTE:	DRN:	CHKD:

PROJECT TITLE
WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

DRN BY: | CHKD BY: | APP BY:

SCALE: | DATE: NOV 2026

STATUS: TENDER

CLIENT: TOOREEN AGHAMORE GWS

DRAWING TITLE: INDEX

PROJECT No.: 26043 | DRAWING No. | REV

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CASHELTOURLY
BALLYNACLOY
CAPPAGH
BM 4
BM 1
LUGBRACK
BALLYHINE
BOLEYBOY
CLOONGAWNAGH
(Cosgrave)
G1
G4
Drg. WD07
AGHAMORE
BM 3
TOBER
CORNAGEAGHTA
BM 2
CARTRON
NORTH
C5
LARALEA
Drg. WD02 & WD03
H1
C2
BM 5
D1
C1
CROSSBEG
MANNIN
MOUNTAINCOMMON
CASHELS
F1
CROSSARD
BM 6
F4
Drg. WD06
COOGUE
MIDDLE
CARNBEG
E1
D3
N
COOLNAHA
NORTH
D4
Drg. WD04 & WD05
COOGUE
SOUTH
A1
CARROWNEDEN (N)
A2
Drg. WD01
B1
B2
COOLNAHA
SOUTH
TAWNAGHMORE
CARROWNEDEN (S)
LARGANBOY
WEST
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EXISTING BULK METER LOCATION

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SCALE: 1/10000 | DATE: NOV. 2026

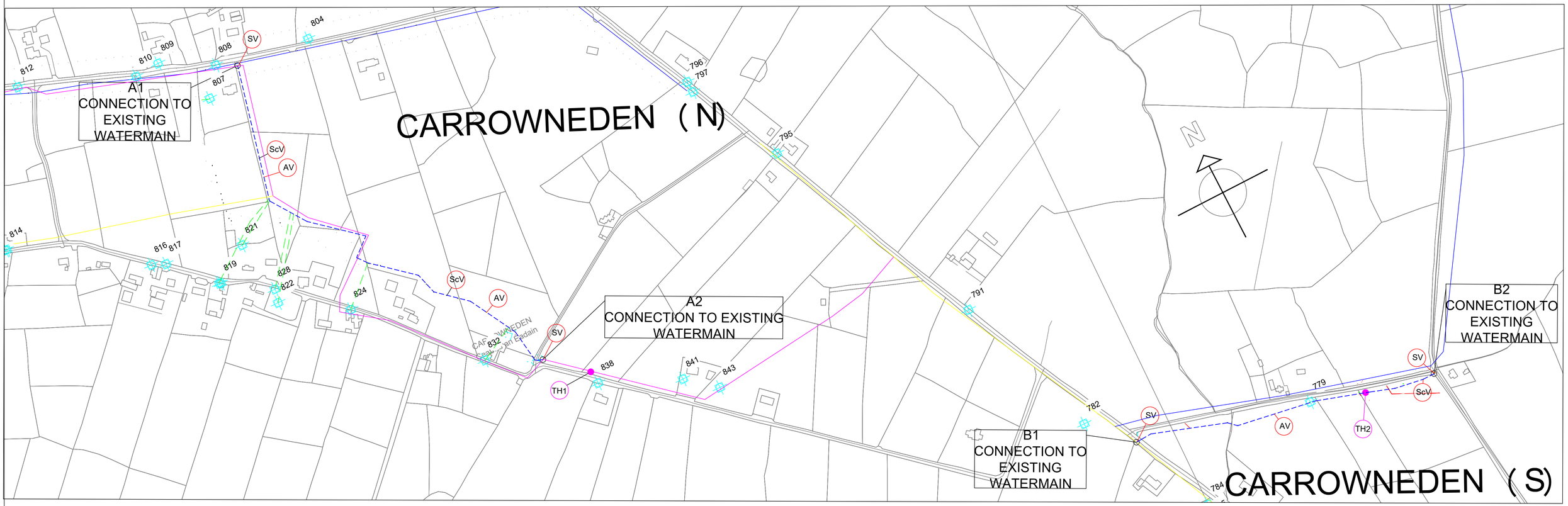
STATUS: TENDER

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TOOREEN AGHAMORE GWS

DRAWING TITLE
KEY PLAN

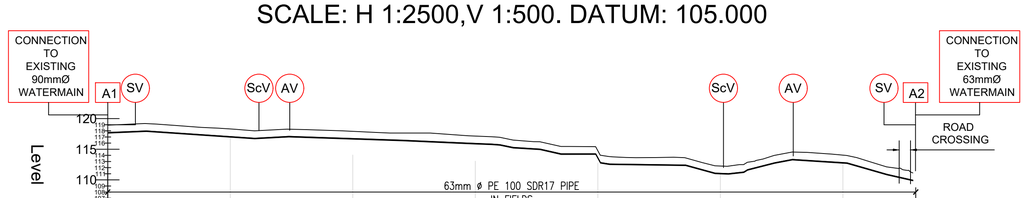
PROJECT No. 26043 | DRAWING No. WD00 | REV

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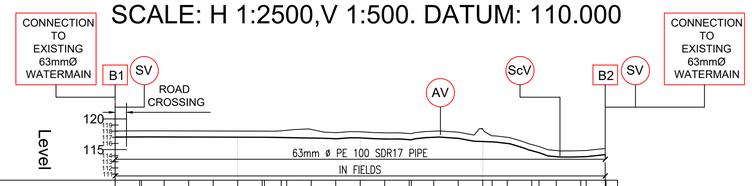
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CARROWNEDEN NORTH - LONGSECTION
SCALE: H 1:2500,V 1:500. DATUM: 105.000



Chainage	Existing Levels
00.000	117.826
20.000	117.655
40.000	117.484
60.000	117.313
80.000	117.142
100.000	116.971
120.000	116.800
140.000	116.952
160.000	117.383
180.000	117.307
200.000	112.726
	114.512
	114.425
220.000	113.724
240.000	112.973
260.000	112.223
280.000	112.539
300.000	113.057
320.000	113.574
340.000	114.092
360.000	114.543
	114.520
380.000	114.041
400.000	113.494
	112.948
	112.618
420.000	112.613
440.000	112.604
460.000	112.589
480.000	112.470
500.000	112.430
	111.682
	111.091
	110.687
	111.273
520.000	111.476
540.000	112.240
560.000	112.506
580.000	113.332
600.000	113.078
	112.823
	112.717
620.000	111.907
640.000	110.617
660.000	109.383

CARROWNEDEN SOUTH - LONGSECTION
SCALE: H 1:2500,V 1:500. DATUM: 110.000



Chainage	Existing Levels
00.000	117.156
20.000	117.152
40.000	117.144
60.000	117.134
80.000	117.125
100.000	117.116
120.000	117.106
140.000	117.159
160.000	117.139
180.000	117.050
200.000	116.961
	116.872
220.000	116.784
240.000	116.687
260.000	116.596
280.000	116.497
300.000	116.398
	116.360
320.000	115.792
340.000	114.870
360.000	114.357
380.000	113.941
400.000	114.441
410.000	

NEW WATERMAIN SHOWN

SUBSOIL INVESTIGATION TRIAL PIT LOCATION SHOWN. TH x

EXISTING CONSUMER CONNECTION/ METER SHOWN. WXY

NEW SERVICE CONNECTION FROM CONSUMER METER UNIT TO NEW PIPELINE SHOWN.

LEGEND

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PROJECT TITLE
WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

DRN BY: cc | CHKD BY: cc | APP BY: cc

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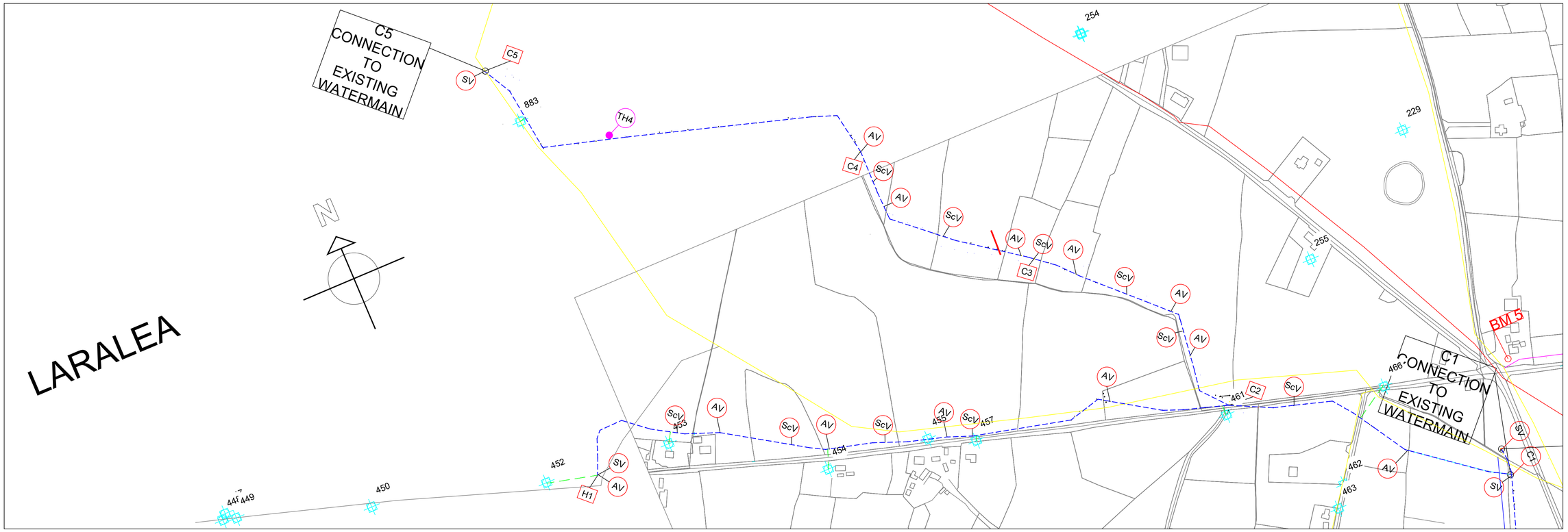
STATUS: TENDER

CLIENT
TOOREEN AGHAMORE GWS

DRAWING TITLE
LAYOUT PLAN AND LONGITUDINAL SECTION PROPOSED WATERMAINS AT CARROWNEDEN (A1 TO A2 660m & B1 TO B2 410m)

PROJECT No. 26043 | DRAWING No. WD01 | REV

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NEW WATERMAIN SHOWN

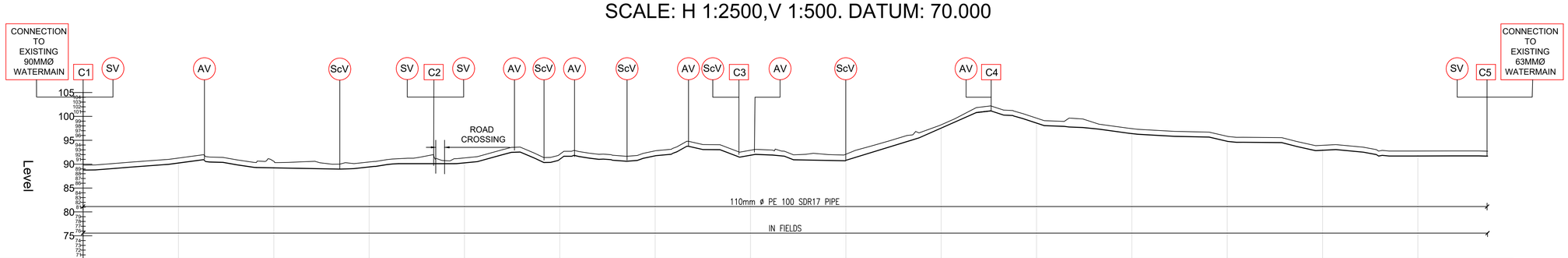
SUBSOIL INVESTIGATION TRIAL PIT LOCATION SHOWN. TH x

EXISTING CONSUMER CONNECTION/ METER SHOWN.

NEW SERVICE CONNECTION FROM CONSUMER METER UNIT TO NEW PIPELINE SHOWN.

WXY

DM CARTRON - LONGSECTION
SCALE: H 1:2500,V 1:500. DATUM: 70.000



Existing Levels	Chainage
88.924	00.000
89.102	20.000
89.376	40.000
89.733	60.000
90.090	80.000
90.446	100.000
90.803	120.000
90.611	140.000
90.132	160.000
89.595	180.000
89.474	200.000
89.432	220.000
89.414	240.000
89.392	260.000
89.370	280.000
89.234	300.000
89.214	320.000
89.487	340.000
89.494	360.000
89.670	380.000
89.917	400.000
90.180	420.000
90.014	440.000
89.944	460.000
90.214	480.000
90.384	500.000
90.583	520.000
91.099	540.000
92.247	560.000
92.248	580.000
92.471	600.000
90.781	620.000
91.008	640.000
91.769	660.000
91.965	680.000
91.877	700.000
91.498	720.000
91.120	740.000
90.924	760.000
91.055	780.000
91.730	800.000
92.089	820.000
92.363	840.000
94.033	860.000
93.555	880.000
93.501	900.000
92.632	920.000
92.575	940.000
92.373	960.000
92.178	980.000
91.804	1000.000
91.278	1020.000
91.064	1040.000
91.774	1060.000
91.511	1080.000
92.049	1100.000
93.337	1120.000
94.626	1140.000
95.362	1160.000
95.983	1180.000
97.432	1200.000
97.736	1220.000
99.161	1240.000
101.027	1260.000
101.252	1280.000
100.388	1300.000
99.985	1320.000
99.725	1340.000
98.692	1360.000
98.328	1380.000
98.164	1400.000
97.995	1420.000
97.920	1440.000
97.696	1460.000
97.134	1480.000
96.533	1500.000
96.196	
95.866	
95.541	
95.180	
94.860	
94.719	
94.644	
94.232	
93.889	
93.830	
93.480	
93.257	
93.131	
92.882	
92.781	
92.431	
92.154	
92.038	
91.967	
91.931	
91.894	
91.866	
91.859	
91.830	
91.811	

LEGEND

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PROJECT TITLE
WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

DRN BY: cc | CHKD BY: cc | APP BY: cc

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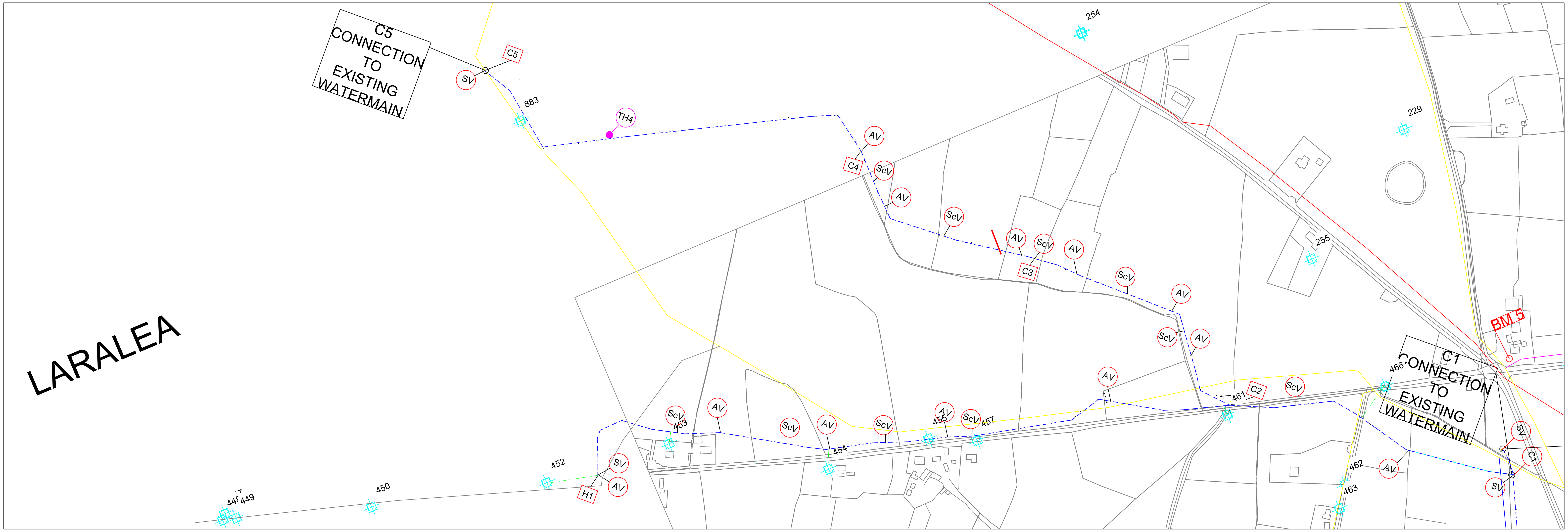
STATUS: TENDER

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DRAWING TITLE
LAYOUT PLAN AND LONGITUDINAL SECTION OF PROPOSED WATERMAINS AT CARTRON (C1 TO C5, 1465m)

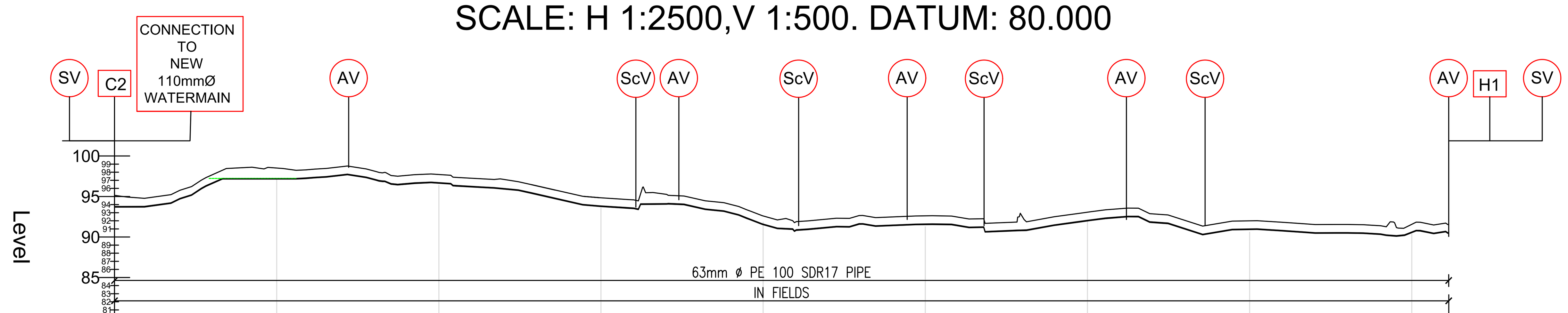
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CARTRON (WESTERN BRANCH)
SCALE: H 1:2500,V 1:500. DATUM: 80.000



Chainage	Existing Levels
00.000	94.245
20.000	93.949
40.000	94.706
60.000	96.183
80.000	96.906
100.000	97.143
120.000	97.136
140.000	97.491
160.000	97.011
180.000	96.502
200.000	96.383
220.000	96.187
240.000	95.690
260.000	94.978
280.000	94.267
300.000	93.602
320.000	93.473
340.000	94.021
360.000	93.787
380.000	93.105
400.000	91.826
420.000	90.761
440.000	90.869
460.000	91.054
480.000	91.240
500.000	91.249
520.000	91.012
540.000	90.808
560.000	91.167
580.000	91.624
600.000	92.092
620.000	92.564
640.000	91.924
660.000	91.037
680.000	90.508
700.000	90.598
720.000	90.622
740.000	90.639
760.000	90.559
780.000	90.423
800.000	90.358
825.000	90.550

EXISTING CONSUMER CONNECTION/ METER SHOWN. WXY

NEW SERVICE CONNECTION FROM CONSUMER METER UNIT TO NEW PIPELINE SHOWN.

NEW WATERMAIN SHOWN

SUBSOIL INVESTIGATION TRIAL PIT LOCATION SHOWN. TH x

LEGEND

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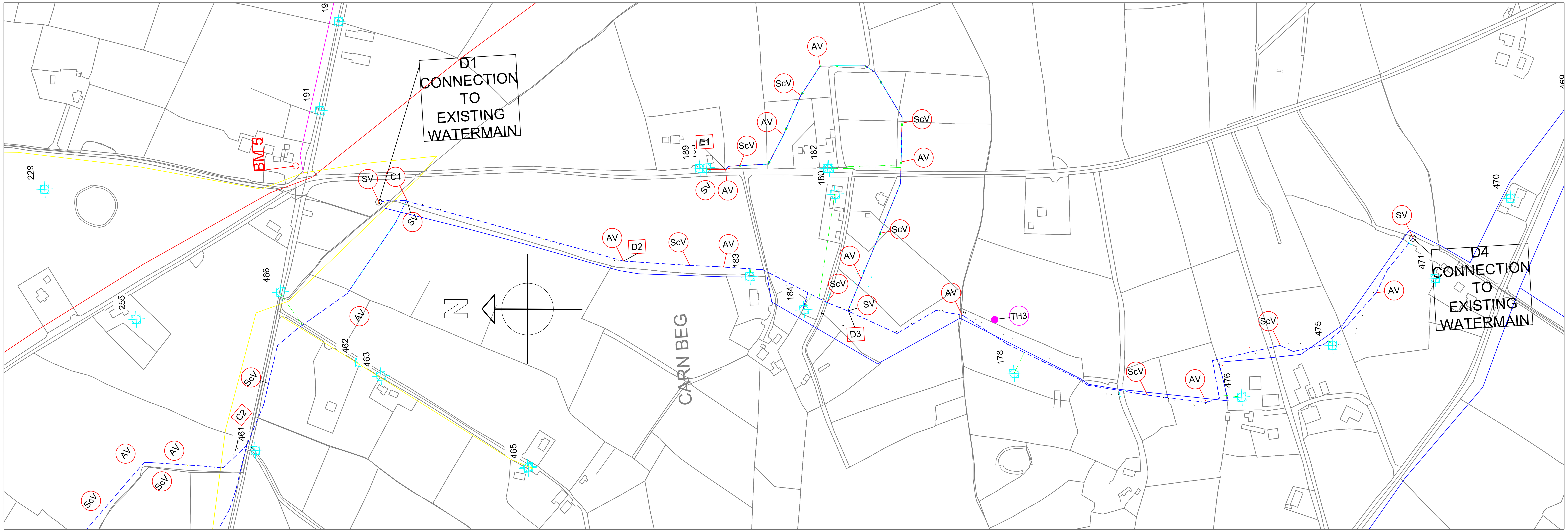
STATUS TENDER

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DRAWING TITLE
LAYOUT PLAN AND LONGITUDINAL SECTION OF PROPOSED WATERMAINS AT CARTRON (C2 TO H1, 830m)

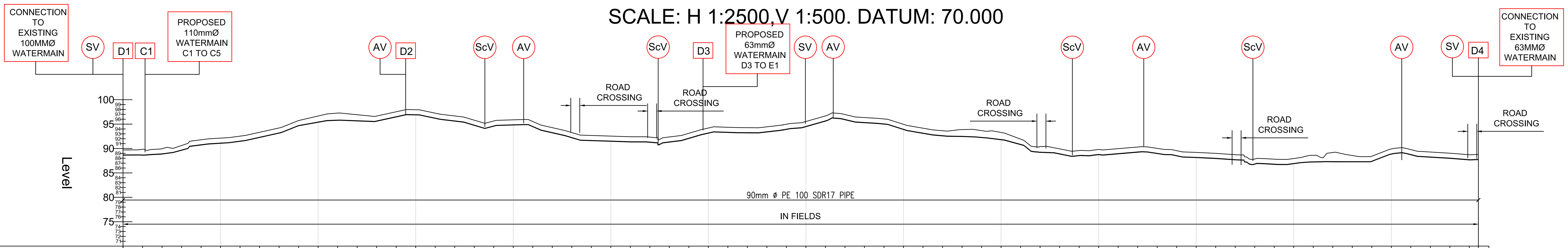
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CARNBEG FIRST SECTION - LONGSECTION
SCALE: H 1:2500,V 1:500. DATUM: 70.000



Chainage	Existing Levels
00.000	88.797
20.000	88.883
40.000	89.133
60.000	89.827
80.000	90.995
100.000	91.465
120.000	91.994
140.000	92.708
160.000	93.696
180.000	94.814
200.000	95.602
220.000	95.761
240.000	95.834
260.000	95.982
280.000	96.708
300.000	96.651
320.000	95.993
340.000	95.387
360.000	94.782
380.000	94.758
400.000	95.073
420.000	94.669
440.000	93.548
460.000	92.427
480.000	91.823
500.000	91.672
520.000	91.573
540.000	91.474
560.000	91.451
580.000	92.161
600.000	93.192
620.000	93.455
640.000	93.374
660.000	93.459
680.000	93.956
700.000	94.592
720.000	95.899
740.000	96.159
760.000	95.539
780.000	95.218
800.000	94.090
820.000	93.437
840.000	92.784
860.000	92.717
880.000	92.633
900.000	91.979
920.000	90.502
940.000	89.498
960.000	89.005
980.000	88.628
1000.000	88.833
1020.000	89.077
1040.000	89.451
1060.000	89.227
1080.000	88.692
1100.000	88.158
1120.000	87.623
1140.000	87.088
1160.000	86.204
1180.000	86.431
1200.000	86.659
1220.000	86.886
1240.000	87.025
1260.000	87.067
1280.000	87.156
1300.000	87.571
1320.000	87.643
1340.000	87.356
1360.000	87.020
1380.000	86.684
1400.000	

EXISTING CONSUMER CONNECTION/ METER SHOWN. WXY

NEW SERVICE CONNECTION FROM CONSUMER METER UNIT TO NEW PIPELINE SHOWN.

NEW WATERMAIN SHOWN

SUBSOIL INVESTIGATION TRIAL PIT LOCATION SHOWN. TH x

LEGEND

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DRN BY: cc | CHKD BY: cc | APP BY: cc

SCALE: 1/2500 | DATE SEPT 2026

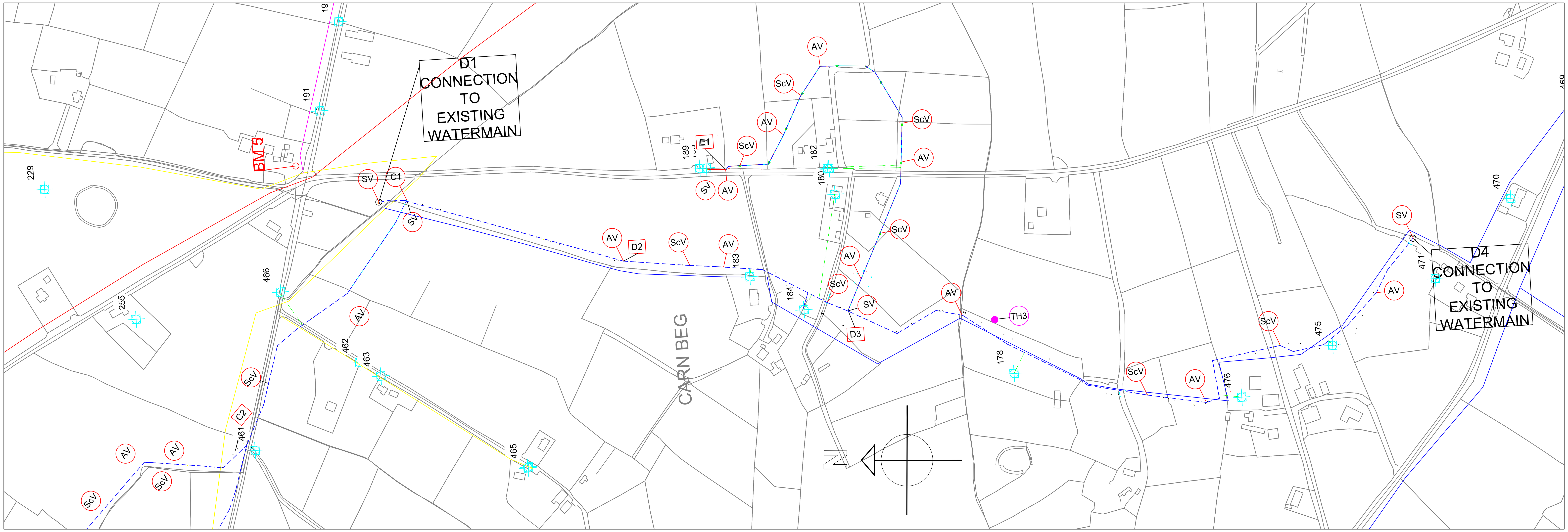
STATUS: TENDER

CLIENT: TOOREEN AGHAMORE GWS

DRAWING TITLE: LAYOUT PLAN AND LONGITUDINAL SECTION OF PROPOSED WATERMAINS AT CARNBEG (D1 TO D4, 1385m)

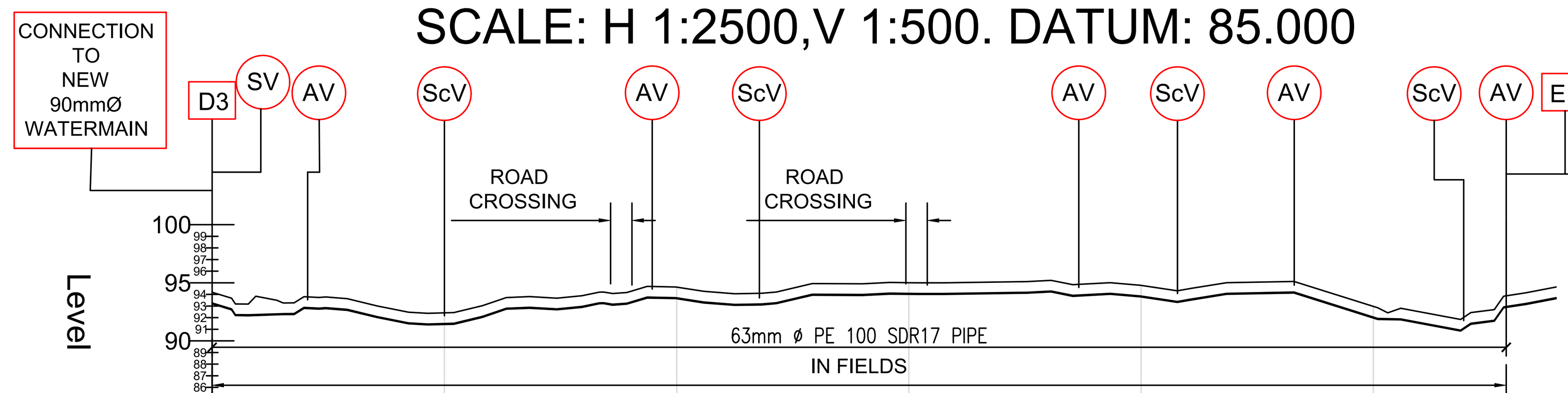
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CARNBEG SUPPLY BRANCH
SCALE: H 1:2500,V 1:500. DATUM: 85.000



Existing Levels	92.980	93.793	93.796	93.556	92.652	92.414	93.273	93.772	93.916	94.300	94.628	94.138	94.081	94.936	94.910
Chainage	00.000	20.000	40.000	60.000	80.000	100.000	120.000	140.000	160.000	180.000	200.000	220.000	240.000	260.000	280.000

Existing Levels	95.010		95.032	95.198	94.913	94.776	94.448	95.020	95.072	94.348	92.972	92.554	92.160	93.912	
Chainage	300.000	320.000	340.000	360.000	380.000	400.000	420.000	440.000	460.000	480.000	500.000	520.000	540.000	560.000	580.000

EXISTING CONSUMER CONNECTION/ METER SHOWN. WXY

NEW SERVICE CONNECTION FROM CONSUMER METER UNIT TO NEW PIPELINE SHOWN.

NEW WATERMAIN SHOWN

SUBSOIL INVESTIGATION TRIAL PIT LOCATION SHOWN. TH x

LEGEND

NOTES

1) DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.

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REV:	DATE:	REVISION NOTE:	DRN:	CHKD:

PROJECT TITLE
WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

DRN BY: cc | CHKD BY: cc | APP BY: cc

SCALE: 1/2500 | DATE SEPT 2026

STATUS
TENDER

CLIENT
TOOREEN AGHAMORE GWS

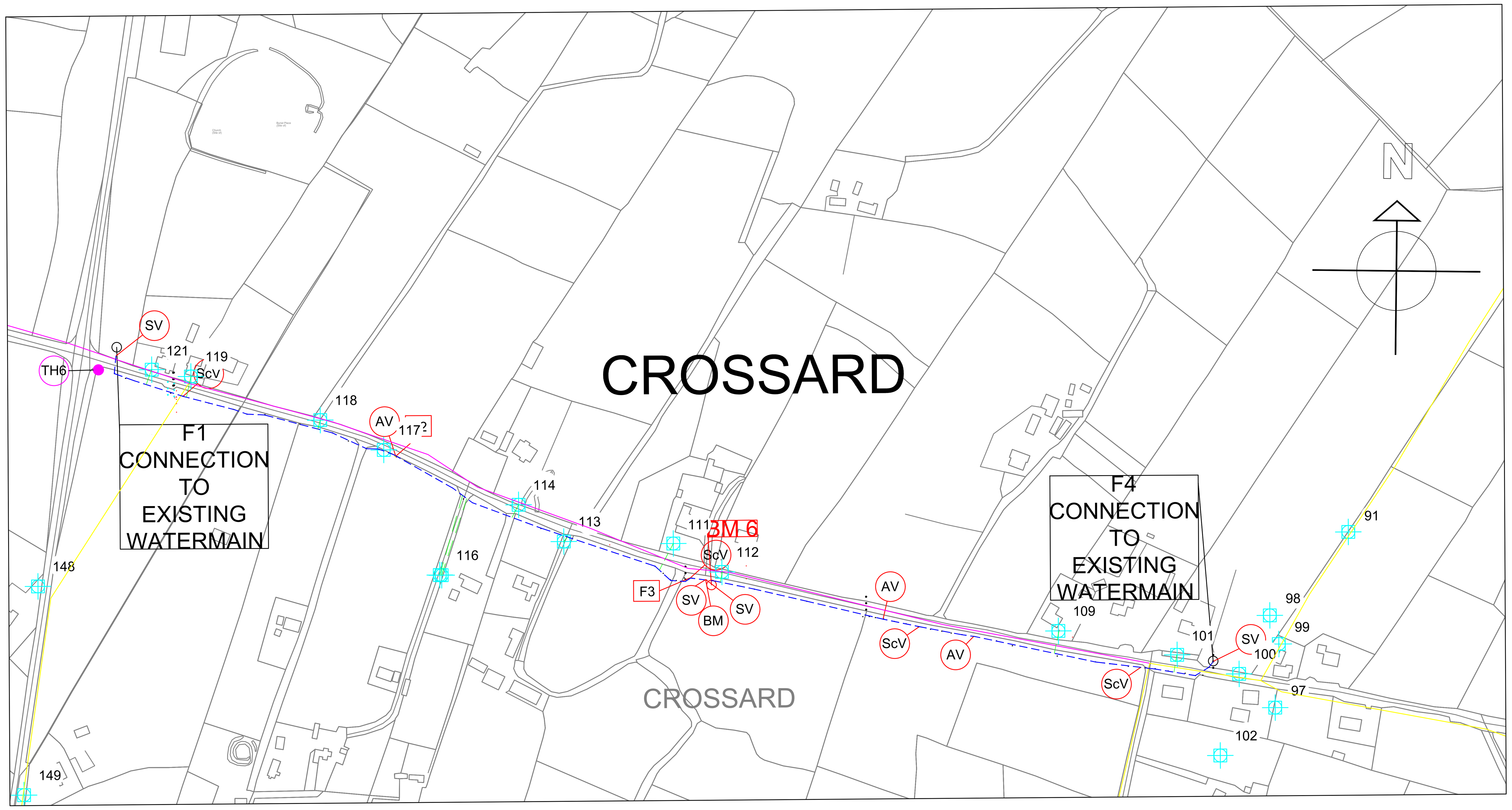
DRAWING TITLE
LAYOUT PLAN AND LONGITUDINAL SECTION OF PROPOSED WATERMAINS AT CARNBEG (D3 TO E1, 590m)

PROJECT No. 26043

DRAWING No. WD05

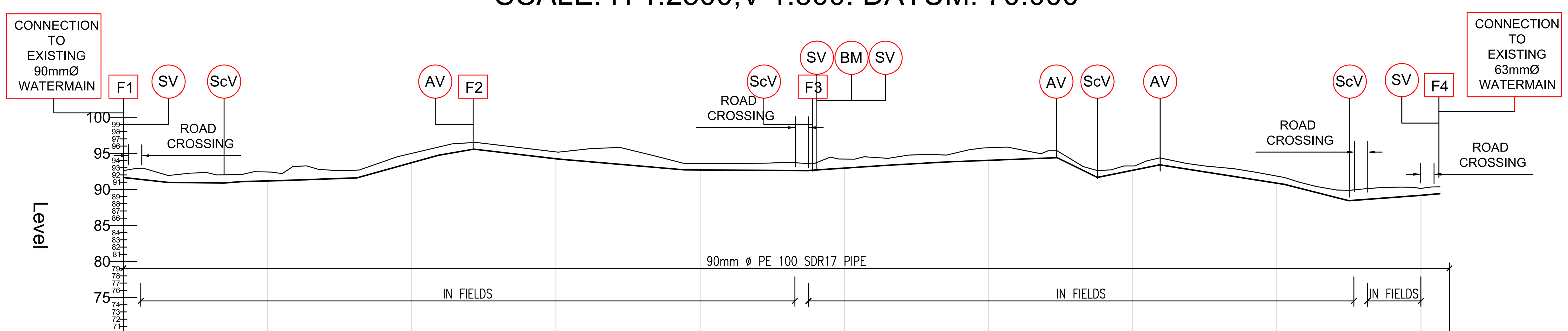
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CROSSARD - LONGSECTION
SCALE: H 1:2500,V 1:500. DATUM: 70.000



Chainage	Existing Levels
00.000	91.708
20.000	91.451
40.000	91.245
60.000	91.129
80.000	91.183
100.000	91.316
120.000	91.683
140.000	91.852
160.000	91.796
180.000	92.931
200.000	94.092
220.000	94.888
240.000	95.581
260.000	95.301
280.000	94.906
300.000	94.511
320.000	94.122
340.000	93.735
360.000	93.472
380.000	93.223
400.000	92.974
420.000	92.788
440.000	92.710
460.000	92.631
480.000	92.715
500.000	93.386
520.000	93.672
540.000	93.823
560.000	94.016
580.000	94.221
600.000	94.252
620.000	94.199
640.000	94.273
660.000	93.011
680.000	91.757
700.000	92.346
720.000	93.413
740.000	92.627
760.000	92.098
780.000	91.606
800.000	90.812
820.000	89.876
840.000	89.062
860.000	89.155
880.000	89.383
900.000	89.236
920.000	

EXISTING CONSUMER CONNECTION/ METER SHOWN. WXY

NEW SERVICE CONNECTION FROM CONSUMER METER UNIT TO NEW PIPELINE SHOWN.

NEW WATERMAIN SHOWN

SUBSOIL INVESTIGATION TRIAL PIT LOCATION SHOWN. TH x

LEGEND

NOTES
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PROJECT TITLE
WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

DRN BY: cc | CHKD BY: cc | APP BY: cc

SCALE: 1/2500 | DATE SEPT 2026

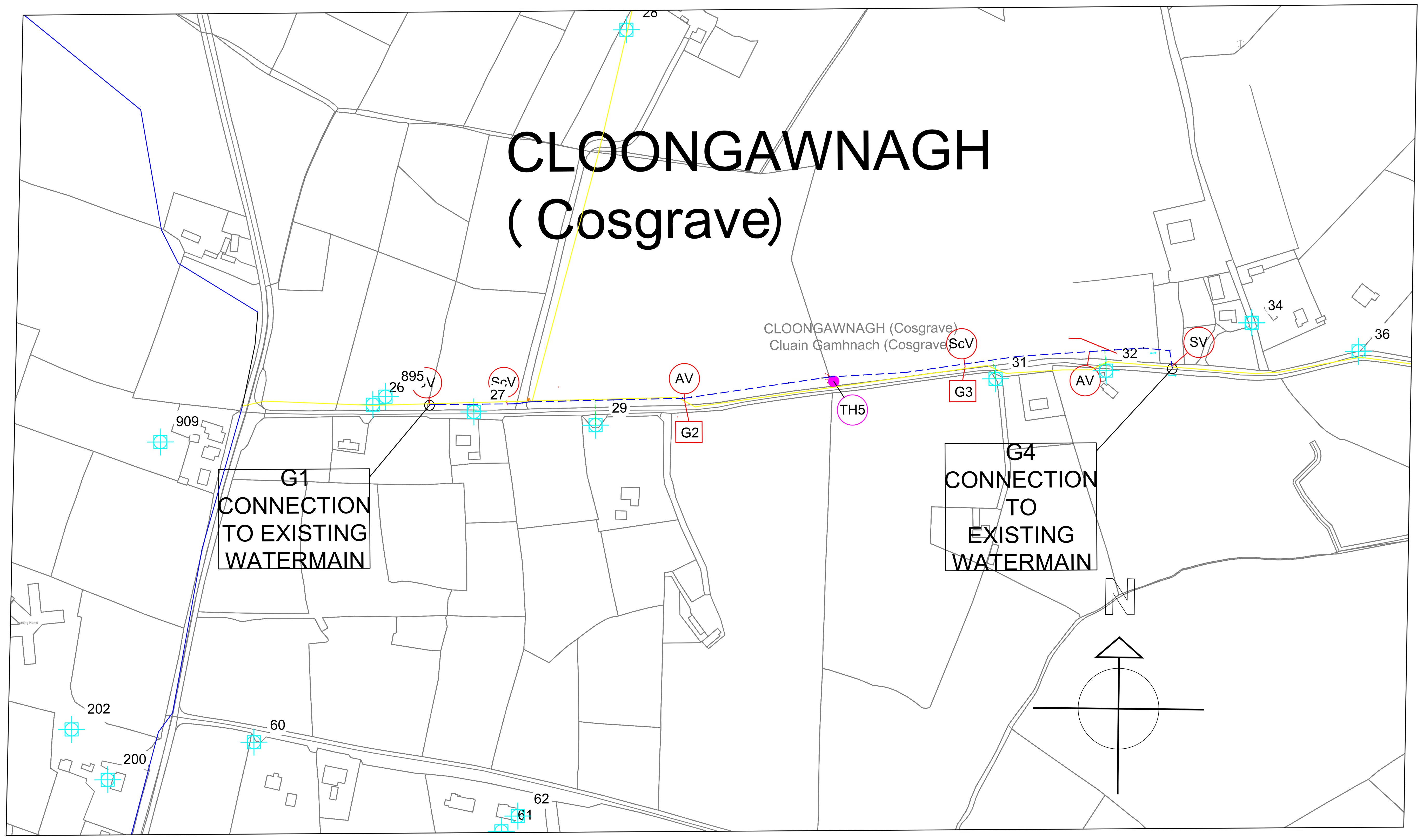
STATUS: TENDER

CLIENT: TOOREEN AGHAMORE GWS

DRAWING TITLE
LAYOUT PLAN AND LONGITUDINAL SECTION OF PROPOSED WATERMAINS AT CROSSARD (F1 TO F4, 920m)

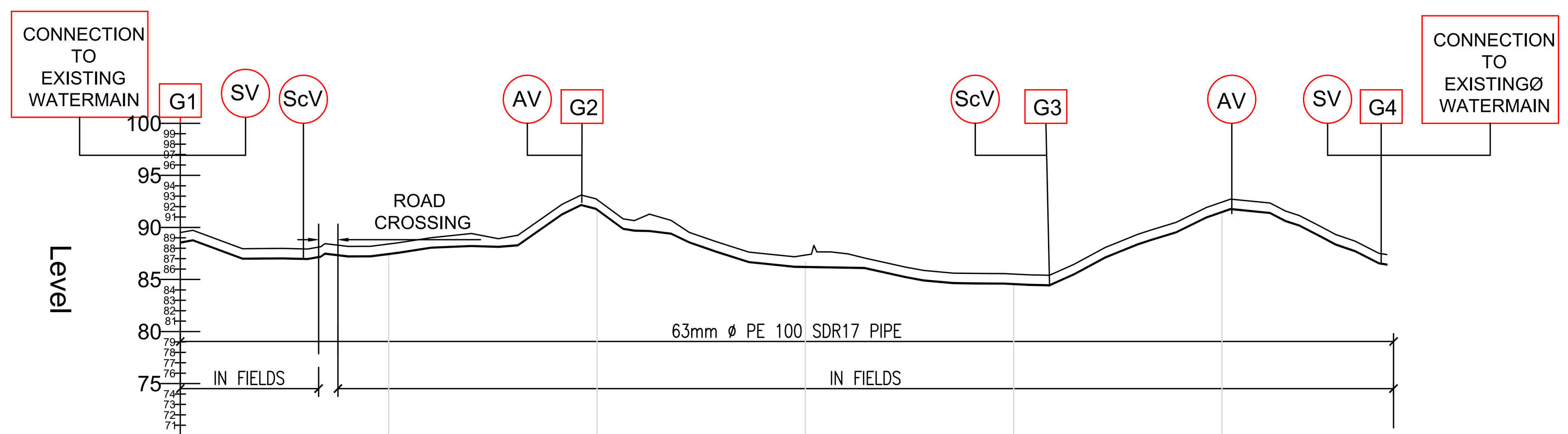
PROJECT No. 26043 | DRAWING No. WD06 | REV

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CLOONGAWNAGH - LONGSECTION
SCALE: H 1:2500,V 1:500. DATUM: 70.000



Existing Levels	88.622	87.873	87.275	87.139	87.261 87.500	87.744	87.986	88.225	90.632 91.778	89.914	89.227	87.773	86.683 86.646	86.571	85.827	84.911	84.636 84.490	84.648	86.653	88.418	89.925 91.556	91.440	89.867	88.134	
Chainage	00.000	20.000	40.000	60.000	80.000 100.000	120.000	140.000	160.000	180.000 200.000	220.000	240.000	260.000	280.000 300.000	320.000	340.000	360.000	380.000 400.000	420.000	440.000	460.000	480.000 500.000	520.000	540.000	560.000	580.000 600.000

EXISTING CONSUMER CONNECTION/ METER SHOWN. WXY

NEW SERVICE CONNECTION FROM CONSUMER METER UNIT TO NEW PIPELINE SHOWN.

NEW WATERMAIN SHOWN

SUBSOIL INVESTIGATION TRIAL PIT LOCATION SHOWN. TH x

LEGEND

NOTES
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REV:	DATE:	REVISION NOTE:	DRN:	CHKD:

PROJECT TITLE
WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

DRN BY: cc | CHKD BY: cc | APP BY: cc

SCALE: 1/2500 | DATE SEPT 2026

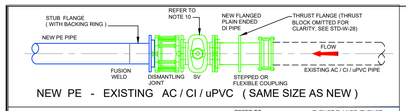
STATUS: TENDER

CLIENT
TOOREEN AGHAMORE GWS

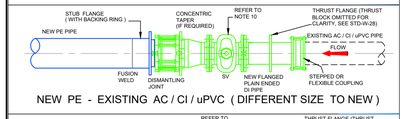
DRAWING TITLE
LAYOUT PLAN AND LONGITUDINAL SECTION OF PROPOSED WATERMAINS AT CLOONGAWNAGH (585m)

PROJECT No. 26043 | DRAWING No. WD05 | REV

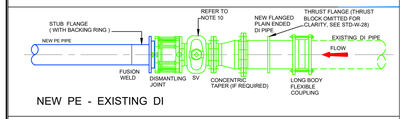
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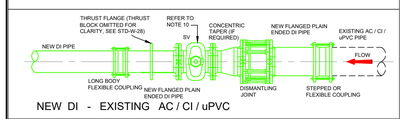
NEW PE - EXISTING AC / CI / uPVC (SAME SIZE AS NEW)



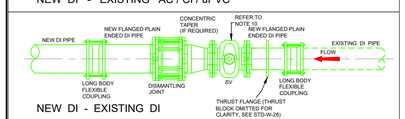
NEW PE - EXISTING AC / CI / uPVC (DIFFERENT SIZE TO NEW)



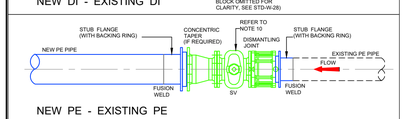
NEW PE - EXISTING DI



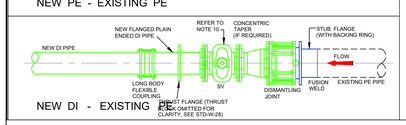
NEW DI - EXISTING AC / CI / uPVC



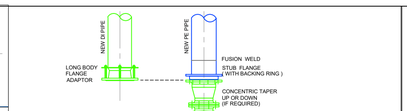
NEW DI - EXISTING DI



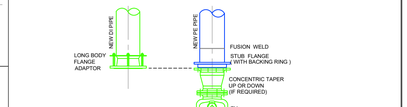
NEW PE - EXISTING PE



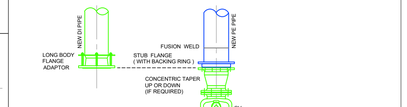
NEW DI - EXISTING PE



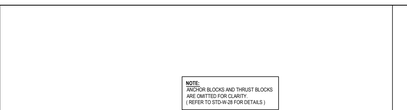
NEW PE / DI - EXISTING AC / CI / uPVC



NEW PE / DI - EXISTING DI



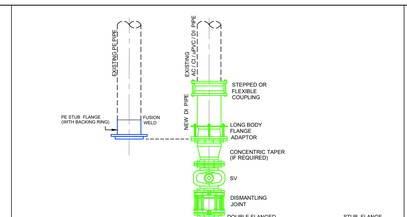
NEW PE - EXISTING PE



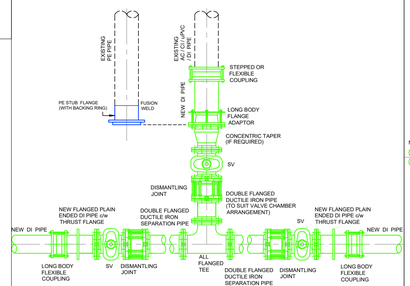
TEMPORARY "DEAD-END" DETAIL (FOR FUTURE EXTENSION) - PE



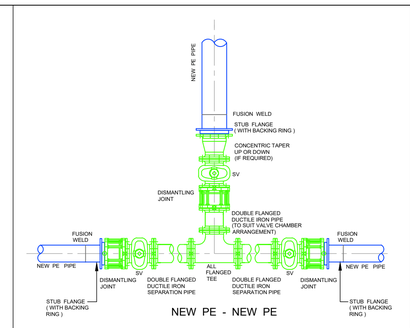
TEMPORARY "DEAD-END" DETAIL (FOR FUTURE EXTENSION) - DI



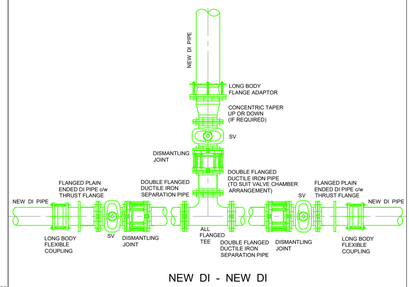
NEW PE - EXISTING AC / CI / uPVC / DI / PE



NEW DI - EXISTING AC / CI / uPVC / DI / PE



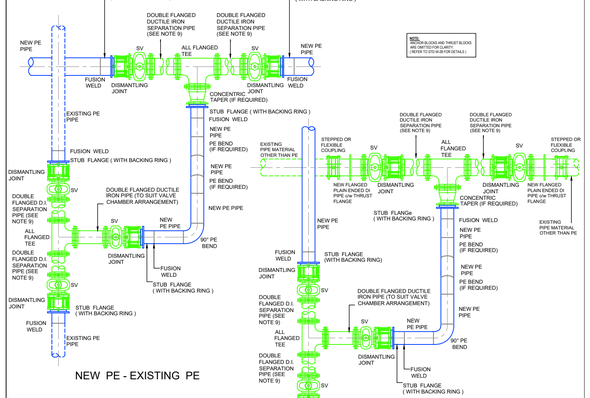
NEW PE - NEW PE

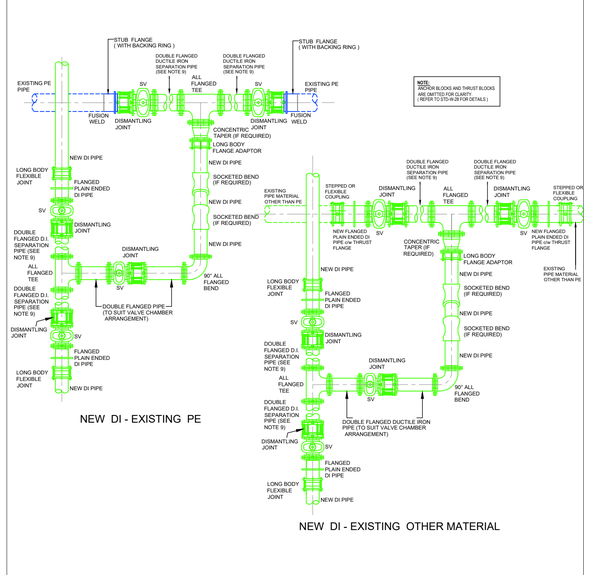


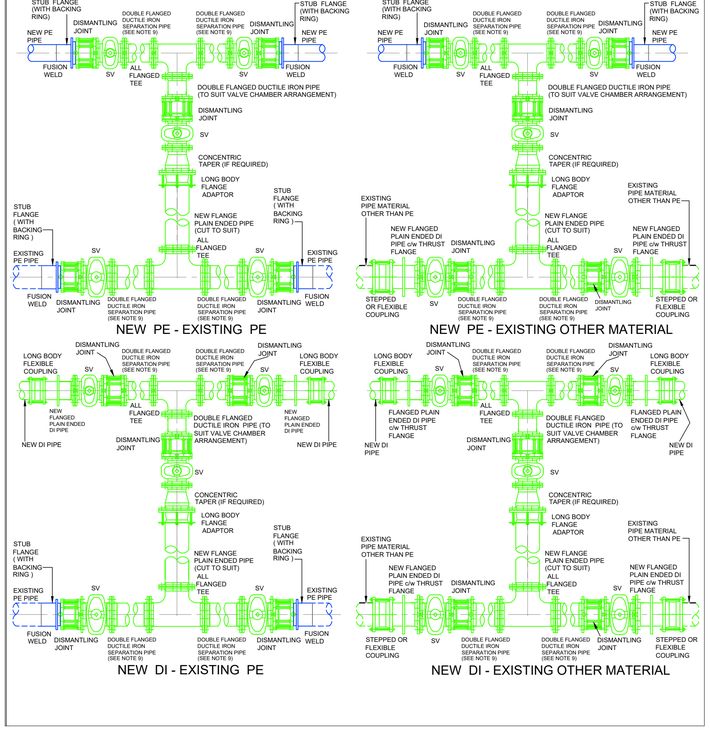
NEW DI - NEW DI

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. ALL BENDS, TEES, DEAD ENDS, ETC. OF PIPELINES TO BE ADEQUATELY RESTRAINED BY THRUST BLOCKS AS PER DRAWING No. STD-W-28. THRUST BLOCKS NOT SHOWN FOR CLARITY.
3. BUTT FUSION WELDING AND ELECTRO FUSION JOINTING OF PIPES SHALL ONLY BE CARRIED OUT BY TRAINED OPERATIVES IN POSSESSION OF A CURRENT TRAINING CERTIFICATE, USING FULLY AUTOMATIC APPROVED JOINTING MACHINERY IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. THE CONTRACTOR SHALL USE THE MANUFACTURER SHALL BE MADE KNOWN TO UISCE EIREANN PRIOR TO COMMENCEMENT OF THE INSTALLATION. CERTIFICATION AND TESTING (INCLUDING INDEPENDENT THIRD PARTY CERTIFICATION) SHALL BE PROVIDED TO CONFIRM QUALITY ASSURANCE COMPLIANCE. EACH JOINT SHALL BE CLEARLY MARKED WITH THE JOINT LOGGED AUTOMATICALLY ON THE JOINTING MACHINE. A PRINTOUT OF THE JOINT DATA FOR EACH JOINT MADE SHALL BE SUPPLIED. ALL BE PROVIDED AND RETAINED FOR QUALITY ASSURANCE PURPOSES.
4. CONNECTING TO EXISTING MAINS IS TO BE CARRIED OUT BY UISCE EIREANN OR AN APPROVED UISCE EIREANN AGENT.
5. WHEN EXISTING AC WATERMAINS ARE PRESENT A SPECIFIC METHOD STATEMENT SHALL BE SUBMITTED TO UISCE EIREANN PRIOR TO WORKS TAKING PLACE AND SUBJECT TO WRITTEN APPROVAL DETAILING THE PROTECTION TO BE PUT IN PLACE TO EXISTING MAINS, METHOD OF REMOVAL OF EXISTING AC METHOD OF DISPOSAL OF EXISTING AC AND METHOD OF CONNECTION TO EXISTING AC.
6. PIPE MATERIAL REFERENCE AS FOLLOWS
   DI - DUCTILE IRON
   DI - DUCTILE IRON
   CI - CAST IRON
   PE - POLYETHYLENE
   uPVC - UNPLASTICISED POLY VINYL CHLORIDE
   ST - STEEL
   OTHER - REFERS TO ALL EXISTING PIPE MATERIALS OTHER THAN PE (TYPICALLY CI, DI, uPVC & ST)
7. PIPE CHAMBER TO BE IN ACCORDANCE WITH STD-W-16 (DI) AND STD-W-19 (PE). CHAMBER NOT SHOWN FOR CLARITY.
8. ALL THRUST FLANGES TO BE ADEQUATELY RESTRAINED BY THRUST BLOCKS AS PER DRAWING No. STD-W-28. THRUST BLOCKS NOT SHOWN FOR CLARITY.
9. DOUBLE FLANGED SEPARATION PIPE, UP TO 5m IN LENGTH, MAY BE REQUIRED TO ALLOW SEPARATION DISTANCE BETWEEN VALVE CHAMBERS.
10. A HIGH LEVEL OF HEALTH & SAFETY PROCEDURES IS REQUIRED WHEN WORKING ON AC MAINS, & THE OPERATION OF DISMANTLING REMOVAL OF AC PIPES & JOINTS.
11. VALVES SHALL BE ARRANGED IN SUCH A MANNER TO ALLOW FOR THE NETWORK TO BE MANAGED TO ENSURE THAT NO MORE THAN 40 PROPERTIES LOSE WATER FROM A BURST ON THE SYSTEM AT ANY ONE TIME.
12. UNEQUAL TEES MAY BE USED INSTEAD OF CONCENTRIC TAPERS (WHERE APPLICABLE).

NOTE:
ANCHOR BLOCKS AND THRUST BLOCKS ARE OMITTED FOR CLARITY.
(REFER TO STD-W-28 FOR DETAILS)







LEGEND

NOTES
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PROJECT TITLE
WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

DRN BY: cc | CHKD BY: | APP BY: cc

SCALE: | DATE: NOV 2026

STATUS: TENDER

CLIENT: TOOREEN AGHAMORE GWS

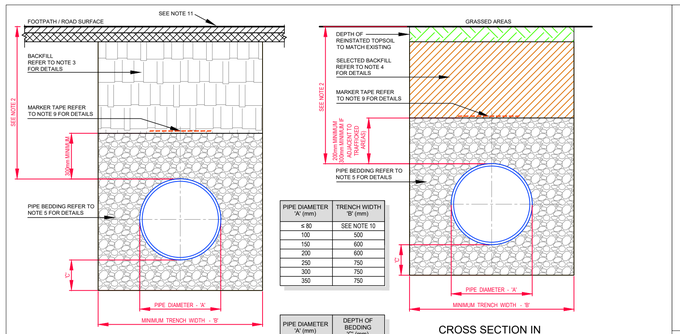
DRAWING TITLE: PIPE CONNECTION DETAILS

PROJECT No.: 26043

DRAWING No.: WD08

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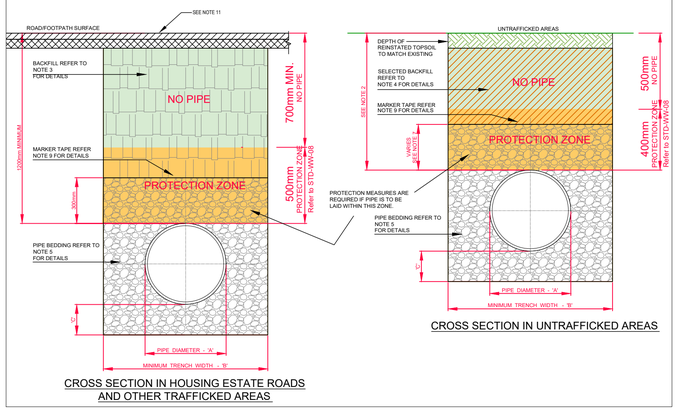
CROSS SECTION IN ROADWAYS

CROSS SECTION IN GRASSED AREAS

PIPE DIAMETER 'A' (mm)	TRENCH WIDTH 'B' (mm)
≤ 80	SEE NOTE 10
100	500
150	600
200	600
250	750
300	750
350	750

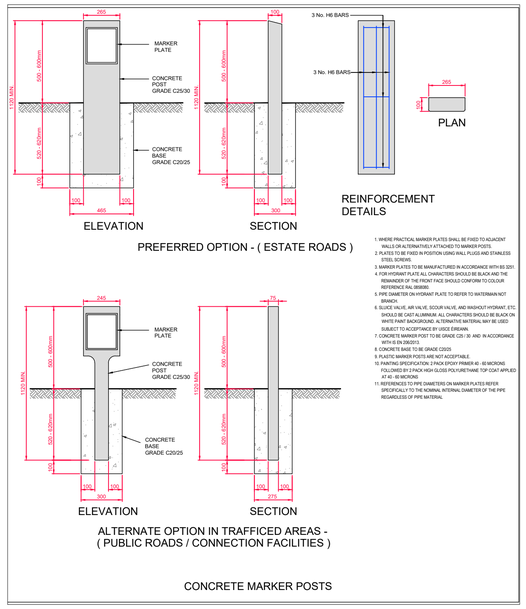
PIPE DIAMETER 'A' (mm)	DEPTH OF BEDDING 'C' (mm)
≤ 200	150
≥ 250	200

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. MINIMUM COVER TO TOP OF PIPE SHALL BE 750mm MIN. FROM THE EXTERNAL CROWN OF THE PIPE SHALL BE 900mm MIN. IN FOOTPATH/NON-TRAFFICKED AREAS AND 1200mm MIN. WHERE THE PIPE IS TO BE LOCATED IN HOUSING ESTATE ROADS AND OTHER TRAFFICKED AREAS. GREATER DEPTHS OF COVER AND/OR PIPE STRENGTH AND/OR A HIGHER CLASS OF BEDDING MATERIAL MAY BE REQUIRED BY UISCE ÉIREANN. THE DESIGNER SHALL ENSURE THE MINIMUM DEPTH OF COVER FOR A WATERMAIN IN HOUSING ESTATE ROADS AND OTHER TRAFFICKED AREAS SHALL BE 1200mm, WHERE PRACTICABLE & SHOULD NOT BE LESS.
3. CLAUSE 804 / 808 MATERIAL IN ACCORDANCE WITH THE TRANSPORT INFRASTRUCTURE IRELAND (TII) SPECIFICATION FOR ROAD WORKS IS TO BE USED AS BACKFILL MATERIAL FOR TRENCHES IN ROADS, FOOTPATHS AND FOOTPATHS OR WHERE THE NEAREST PART OF THE TRENCH IS WITHIN 1m OF THE PAVED EDGE OF THE ROADWAY. CLAUSE 804 / 808 IS TO BE COMPACTED AS PER CLAUSE 802 OF THE TRANSPORT INFRASTRUCTURE IRELAND (TII) SPECIFICATION FOR ROAD WORKS. CLAUSE 808 IS TO BE USED WITHIN 500mm OF CEMENT BOUND MATERIALS AND SHALL BE COMPACTED AS PER CLAUSE 808 OF THE TII SPECIFICATIONS. OTHERWISE CLAUSE 804 MAY BE USED. ALTERNATIVE BACKFILL MATERIAL TO THAT DESCRIBED ABOVE (CLAUSE 804 OR CLAUSE 808) OF THE PIPE TRENCH WILL ONLY BE ALLOWED BY UISCE ÉIREANN WHERE THE ROADS AUTHORITY IN WHOSE FUNCTIONAL AREA THE DEVELOPMENT IS LOCATED, CONSENTS IN WRITING TO THE DEVELOPER TO THE USE SUCH ALTERNATIVE MATERIAL.
4. SELECTED EXCAVATED MATERIAL MAY BE USED IN GREEN-FIELD AREAS ABOVE THE PIPE BEDDING PROVIDED IT IS FREE FROM ROCK, STONES OR ANY HARD OBJECT.
5. PIPE BEDDING SHALL COMPLY WITH BS 8.0/6.0 AND SDA 4.08.01 GRANULAR MATERIAL SHALL BE 14mm TO 5mm (6-8) GRADED AGGREGATE OR 10mm (6-8) SINGLE SIZED AGGREGATE TO IS EN 12242
6. IN SOFT GROUND CONDITIONS (CBR < 5) THE MATERIAL SHOULD BE EXCAVATED OUT TO A DEPTH AS DIRECTED BY UISCE ÉIREANN AND REPLACED WITH CLAUSE 804 / 808 MATERIAL IN ACCORDANCE WITH THE TRANSPORT INFRASTRUCTURE IRELAND (TII) SPECIFICATION FOR ROAD WORKS SHALL REPLACE THE SOFT MATERIAL. WHERE THE DEPTH OF SOFT MATERIAL IS EXCESSIVE, SUCH ARRANGEMENTS SPECIAL PIPE SUPPORT ARRANGEMENTS, INCLUDING PILING ETC, MAY BE REQUIRED WHERE THE DEPTH OF SOFT MATERIAL IS EXCESSIVE, SUCH ARRANGEMENTS SHALL BE SUBJECT TO ASSESSMENT BY UISCE ÉIREANN BEFORE ADVANCING WITH THE WORKS.
7. PIPES SHALL NOT BE SUPPORTED ON STONES OR ROCKS, OR ANY HARD OBJECT AT ANY POINT ALONG THE TRENCH. ROCK SHALL BE EXCAVATED TO A DEPTH OF 100mm BELOW THE ACTUAL DEPTH OF THE TRENCH WITH THE VOID FILLED WITH CLAUSE 804 / 808 MATERIAL IN ACCORDANCE WITH THE TRANSPORT INFRASTRUCTURE IRELAND (TII) SPECIFICATION FOR ROAD WORKS. THE GRANULAR MATERIAL SHALL BE LAID ABOVE THIS VOID BACKFILL MATERIAL.
8. MARKER TAPE TO BE 400mm WIDE BLUE POLYETHYLENE MATERIAL IN ACCORDANCE WITH EN 12100, PLASTIC PIPES SHALL HAVE WARNING TAPE INCORPORATED A 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 PVC PIPES. THE MINIMUM THICKNESS OF COMPRESSIBLE FILLER FOR MAINS < 450mm IN DIAMETER IS TO BE 10mm.
9. TRENCH WIDTHS FOR PIPE SIZES ≥450mm MAY BE >500mm, SUBJECT TO CONSIDERATION OF PIPE DIAMETER, TRENCH DEPTH, HEALTH & SAFETY & CONSTRUCTION ACCESS REQUIREMENTS.
10. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS.
11. ALL TEMPORARY AND PERMANENT ROAD REINSTATEMENT TO COMPLY WITH CURRENT VERSION OF 'GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS' BY THE DEPT. OF TRANSPORT, OR TRANSPORT INFRASTRUCTURE IRELAND REQUIREMENTS



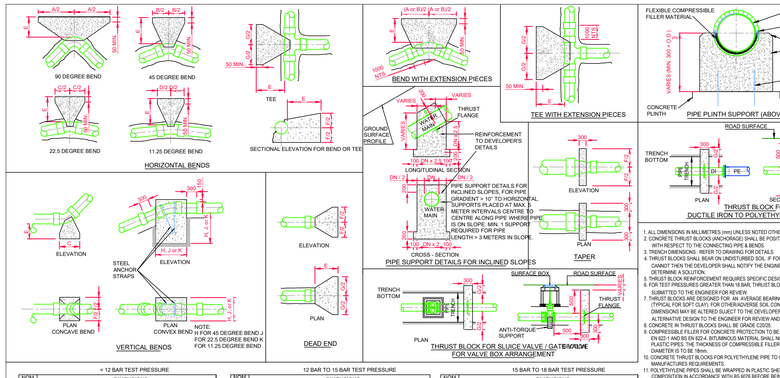
CROSS SECTION IN HOUSING ESTATE ROADS AND OTHER TRAFFICKED AREAS

CROSS SECTION IN UNTRAFFICKED AREAS



1. WHERE PRACTICAL MARKER PLATES SHALL BE FIXED TO ADJACENT WALLS OR ALTERNATIVELY ATTACHED TO MARKER POSTS.
2. PLATES TO BE FIXED IN POSITION USING WALL PLUGS AND STAINLESS STEEL SCREWS.
3. MARKER PLATES TO BE MANUFACTURED IN ACCORDANCE WITH BS 3251.
4. FOR HYDRANT PLATE ALL CHARACTERS SHOULD BE BLACK AND THE REMAINDER OF THE FRONT FACE SHOULD CONFORM TO COLOUR REFERENCE RAL 080800.
5. PIPE DIAMETER ON HYDRANT PLATE TO REFER TO WATERMAIN NOT BRANCH.
6. SLUICE VALVE, AIR VALVE, SCOUR VALVE, AND WASHOUT HYDRANT, ETC. SHOULD BE CAST ALUMINIUM. ALL CHARACTERS SHOULD BE BLACK ON WHITE PAINT BACKGROUND. ALTERNATIVE MATERIAL MAY BE USED SUBJECT TO ACCEPTANCE BY UISCE ÉIREANN.
7. CONCRETE MARKER POST TO BE GRADE C25 / 30 AND IN ACCORDANCE WITH IS EN 206/2013.
8. CONCRETE BASE TO BE GRADE C20/25
9. PLASTIC MARKER POSTS ARE NOT ACCEPTABLE.
10. PAINTING SPECIFICATION: 2 PACK EPOXY PRIMER 40 - 60 MICRONS FOLLOWED BY 2 PACK HIGH GLOSS POLYURETHANE TOP COAT APPLIED AT 40 - 60 MICRONS
11. REFERENCES TO PIPE DIAMETERS ON MARKER PLATES REFER SPECIFICALLY TO THE NOMINAL INTERNAL DIAMETER OF THE PIPE REGARDLESS OF PIPE MATERIAL

CONCRETE MARKER POSTS



1. ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. CONCRETE THRUST BLOCKS ANCHORAGE SHALL BE POSITIONED SYMMETRICALLY WITH RESPECT TO THE CONNECTING PIPE & BENDS.
3. TRENCH DIMENSIONS - REFER TO DRAWING FOR DETAILS
4. THRUST BLOCKS SHALL BEAR ON UNDISTURBED SOIL. IF FOR ANY REASON THEY CANNOT THEN THE DEVELOPER SHALL NOTIFY THE ENGINEER IMMEDIATELY TO DETERMINE A SOLUTION.
5. THRUST BLOCK REINFORCEMENT REQUIRES SPECIFIC DESIGN.
6. FOR TEST PRESSURES GREATER THAN 18 BAR, THRUST BLOCK DESIGN IS TO BE SUBMITTED TO THE ENGINEER FOR REVIEW.
7. THRUST BLOCKS ARE DESIGNED FOR AN AVERAGE BEARING PRESSURE OF 100 KN/m (TYPICAL FOR SOFT CLAY). FOR OTHER/ADVERSE SOIL CONDITIONS, ACTUAL DIMENSIONS MAY BE ALTERED SUBJECT TO THE DEVELOPER SUBMITTING AN ALTERNATIVE DESIGN TO THE ENGINEER FOR REVIEW AND APPROVAL.
8. CONCRETE IN THRUST BLOCKS SHALL BE GRADE C25/30.
9. 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 PVC PIPES. THE MINIMUM THICKNESS OF COMPRESSIBLE FILLER FOR MAINS < 450mm IN DIAMETER IS TO BE 10mm.
10. CONCRETE THRUST BLOCKS FOR POLYETHYLENE PIPE TO COMPLY WITH THE MANUFACTURERS REQUIREMENTS.
11. POLYETHYLENE PIPES SHALL BE WRAPPED IN PLASTIC SHEETING HAVING A COMPOSITION IN ACCORDANCE WITH BS 6076 BEFORE BEING CAST INTO CONCRETE.
12. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.

WATER MAIN THRUST AND SUPPORT BLOCKS

< 12 BAR TEST PRESSURE

NOM DIA. (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	1580	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	1850	1450	1150
500	3590	1950	990	500	800	1200	2540	1950	1600	1250
600	4100	2200	1120	570	850	1400	2880	2100	1700	1300

12 BAR TO 15 BAR TEST PRESSURE

NOM DIA. (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

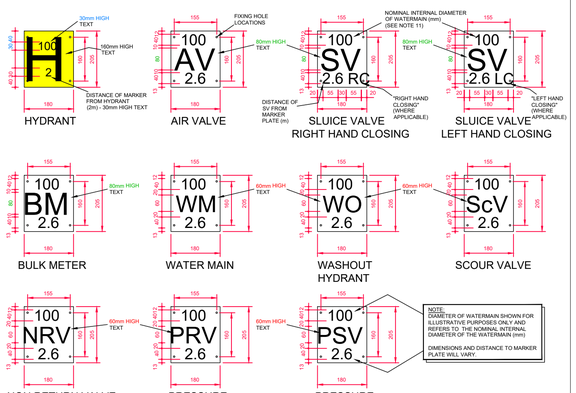
15 BAR TO 18 BAR TEST PRESSURE

NOM DIA. (mm)	DIMENSIONS A	B	C	D	E	F	G	H	J	K
100	750	400	205	100	220	400	530	800	650	400
150	1250	700	350	180	250	500	890	1000	850	600
200	1650	890	450	230	320	700	1170	1250	1000	800
250	1960	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	1100
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

TABLE OF DIMENSIONS FOR STEEPLY INCLINED PIPELINES

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

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7. CONCRETE MARKER POST TO BE GRADE C25 / 30 AND IN ACCORDANCE WITH IS EN 206/2013.
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11. REFERENCES TO PIPE DIAMETERS ON MARKER PLATES REFER SPECIFICALLY TO THE NOMINAL INTERNAL DIAMETER OF THE PIPE REGARDLESS OF PIPE MATERIAL



MARKER PLATES

LEGEND

NOTES
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REV:	DATE:	REVISION NOTE:	DRN:	CHKD:

PROJECT TITLE
WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

DRN BY: cc | CHKD BY: | APP BY: cc

SCALE: | DATE: NOV 2026

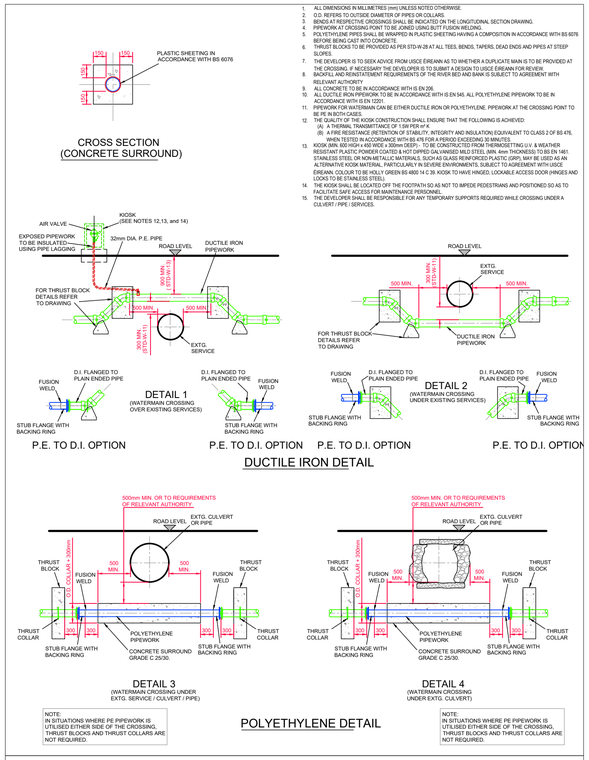
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CLIENT: TOOREEN AGHAMORE GWS

DRAWING TITLE: STANDARD DETAILS
SHEET 1 OF 2

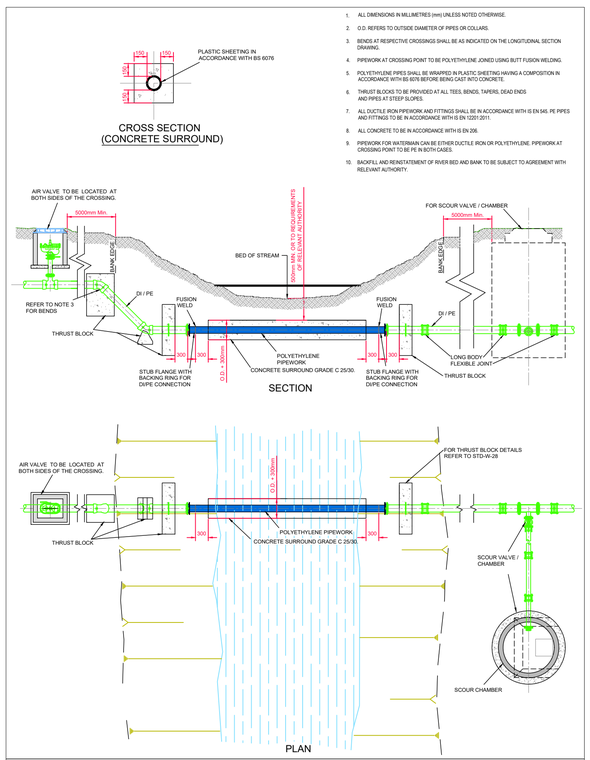
PROJECT No.: 26043 | DRAWING No.: WD09 | REV:

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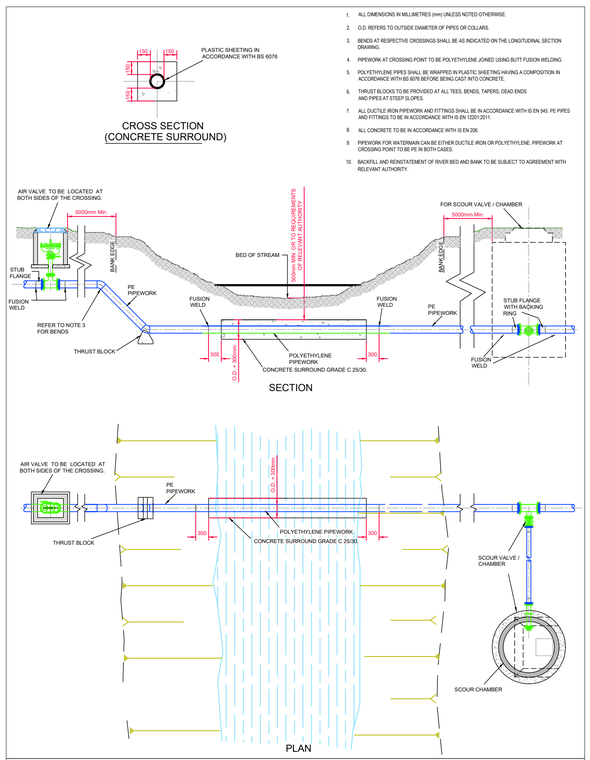
1. ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. O.D. REFERS TO OUTSIDE DIAMETER OF PIPES OR COLLARS.
3. BENDS AT RESPECTIVE CROSSINGS SHALL BE AS INDICATED ON THE LONGITUDINAL SECTION DRAWING.
4. PIPEWORK AT CROSSING POINT TO BE JOINED USING BUTT FUSION WELDING.
5. POLYETHYLENE PIPES SHALL BE WRAPPED IN PLASTIC SHEETING HAVING A COMPOSITION IN ACCORDANCE WITH BS 6076 BEFORE BEING CAST INTO CONCRETE.
6. THRUST BLOCKS TO BE PROVIDED AT ALL TEES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.
7. THE DEVELOPER IS TO SEEK ADVICE FROM UISCE EIREANN AS TO WHETHER A DUPLICATE MAIN IS TO BE PROVIDED AT THE CROSSING. IF NECESSARY THE DEVELOPER IS TO SUBMIT A DESIGN TO UISCE EIREANN FOR REVIEW.
8. BACKFILL AND REINSTATEMENT REQUIREMENTS OF THE RIVER BED AND BANK IS SUBJECT TO AGREEMENT WITH RELEVANT AUTHORITY
9. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
10. ALL DUCTILE IRON PIPEWORK TO BE IN ACCORDANCE WITH IS EN 545. ALL POLYETHYLENE PIPEWORK TO BE IN ACCORDANCE WITH IS EN 12201.
11. PIPEWORK FOR WATERMAIN CAN BE EITHER DUCTILE IRON OR POLYETHYLENE. PIPEWORK AT THE CROSSING POINT TO BE PE IN BOTH CASES.
12. THE KIOSK AND THE KIOSK CONSTRUCTION SHALL ENSURE THAT THE FOLLOWING IS ACHIEVED:
    (A) A THERMAL TRANSMITTANCE OF 1.5W PER m²·K.
    (B) A FIRE RESISTANCE (RETENTION OF STABILITY, INTEGRITY AND INSULATION) EQUIVALENT TO CLASS 2 OF BS 476, WHEN TESTED IN ACCORDANCE WITH BS 476 FOR A PERIOD EXCEEDING 30 MINUTES.
13. KIOSK (MIN. 600 HIGH x 450 WIDE x 300mm DEEP) - TO BE CONSTRUCTED FROM THERMOSETTING U.V. & WEATHER RESISTANT PLASTIC POWDER COATED & HOT DIPPED GALVANISED MILD STEEL (MIN. 4mm THICKNESS) TO BS EN 1461. STAINLESS STEEL OR NON-METALLIC MATERIALS, SUCH AS GLASS REINFORCED PLASTIC (GRP), MAY BE USED AS AN ALTERNATIVE KIOSK MATERIAL, PARTICULARLY IN SEVERE ENVIRONMENTS, SUBJECT TO AGREEMENT WITH UISCE EIREANN. COLOUR TO BE HOLLY GREEN BS 4800 14 C 39. KIOSK TO HAVE HINGED, LOCKABLE ACCESS DOOR (HINGES AND LOCKS TO BE STAINLESS STEEL).
14. THE KIOSK SHALL BE LOCATED OFF THE FOOTPATH SO AS NOT TO IMPEDE PEDESTRIANS AND POSITIONED SO AS TO FACILITATE SAFE ACCESS FOR MAINTENANCE PERSONNEL.
15. THE DEVELOPER SHALL BE RESPONSIBLE FOR ANY TEMPORARY SUPPORTS REQUIRED WHILE CROSSING UNDER A CULVERT / PIPE / SERVICES.

TYPICAL CULVERT & SERVICES CROSSING DETAILS FOR WATER MAIN



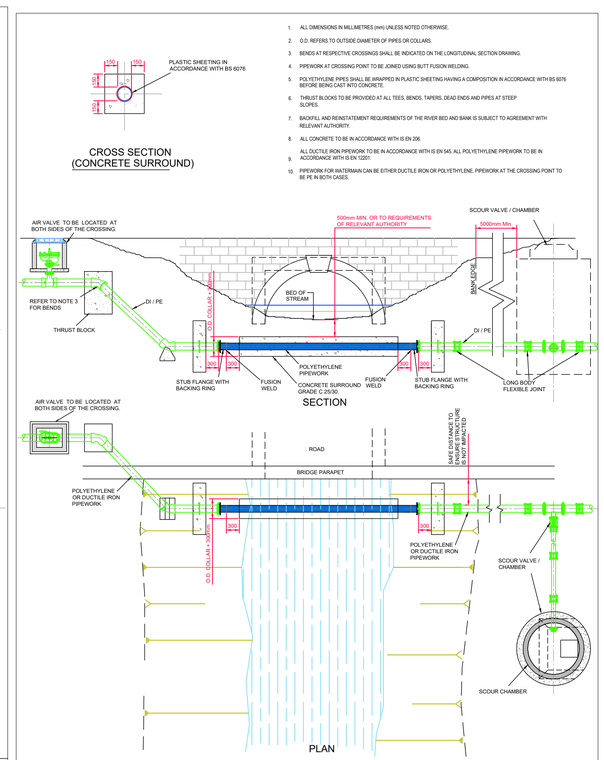
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4. PIPEWORK AT CROSSING POINT TO BE POLYETHYLENE JOINED USING BUTT FUSION WELDING.
5. POLYETHYLENE PIPES SHALL BE WRAPPED IN PLASTIC SHEETING HAVING A COMPOSITION IN ACCORDANCE WITH BS 6076 BEFORE BEING CAST INTO CONCRETE.
6. THRUST BLOCKS TO BE PROVIDED AT ALL TEES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.
7. ALL DUCTILE IRON PIPEWORK AND FITTINGS SHALL BE IN ACCORDANCE WITH IS EN 545. PE PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 12201:2011.
8. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
9. PIPEWORK FOR WATERMAIN CAN BE EITHER DUCTILE IRON OR POLYETHYLENE. PIPEWORK AT CROSSING POINT TO BE PE IN BOTH CASES.
10. BACKFILL AND REINSTATEMENT OF RIVER BED AND BANK TO BE SUBJECT TO AGREEMENT WITH RELEVANT AUTHORITY.

TYPICAL DITCH / STREAM CROSSING FOR WATER MAIN DUCTILE IRON OPTION



1. ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
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3. BENDS AT RESPECTIVE CROSSINGS SHALL BE AS INDICATED ON THE LONGITUDINAL SECTION DRAWING.
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10. BACKFILL AND REINSTATEMENT OF RIVER BED AND BANK TO BE SUBJECT TO AGREEMENT WITH RELEVANT AUTHORITY.

TYPICAL DITCH / STREAM CROSSING FOR WATER MAIN POLYETHYLENE OPTION



1. ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
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4. PIPEWORK AT CROSSING POINT TO BE JOINED USING BUTT FUSION WELDING.
5. POLYETHYLENE PIPES SHALL BE WRAPPED IN PLASTIC SHEETING HAVING A COMPOSITION IN ACCORDANCE WITH BS 6076 BEFORE BEING CAST INTO CONCRETE.
6. THRUST BLOCKS TO BE PROVIDED AT ALL TEES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.
7. BACKFILL AND REINSTATEMENT REQUIREMENTS OF THE RIVER BED AND BANK IS SUBJECT TO AGREEMENT WITH RELEVANT AUTHORITY.
8. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
9. ALL DUCTILE IRON PIPEWORK TO BE IN ACCORDANCE WITH IS EN 545. ALL POLYETHYLENE PIPEWORK TO BE IN ACCORDANCE WITH IS EN 12201.
10. PIPEWORK FOR WATERMAIN CAN BE EITHER DUCTILE IRON OR POLYETHYLENE. PIPEWORK AT THE CROSSING POINT TO BE PE IN BOTH CASES.

TYPICAL BRIDGE CROSSING FOR WATER MAIN

LEGEND

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PROJECT TITLE
WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

DRN BY: cc | CHKD BY: | APP BY: cc

SCALE: | DATE: NOV 2026

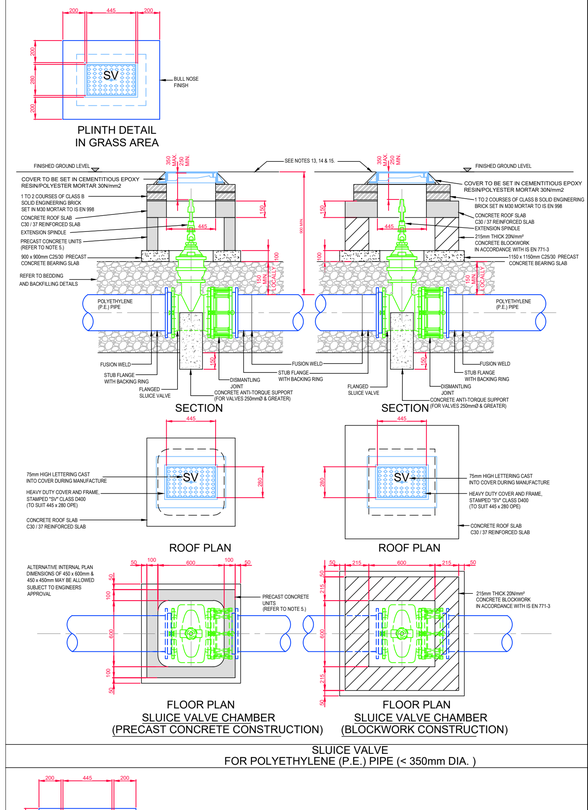
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CLIENT: TOOREEN AGHAMORE GWS

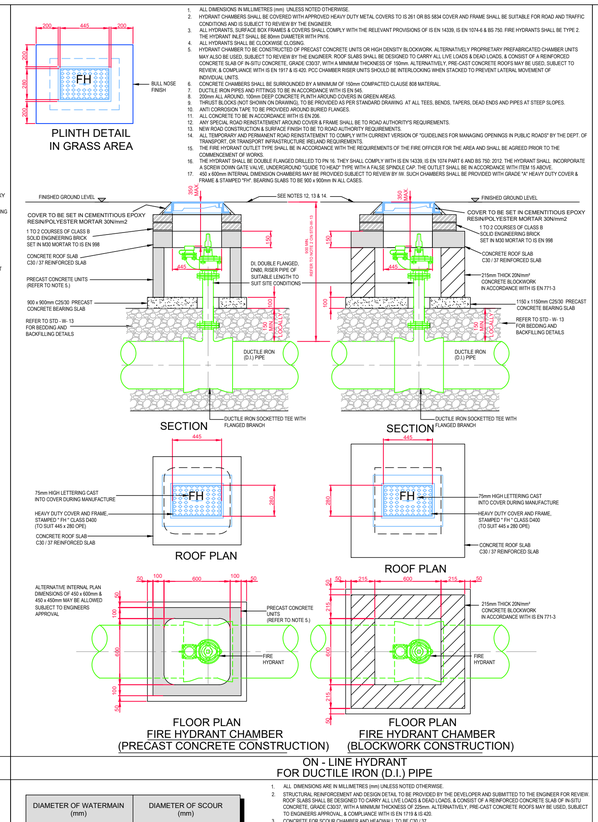
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PROJECT No.: 26043 | DRAWING No.: WD10 | REV:

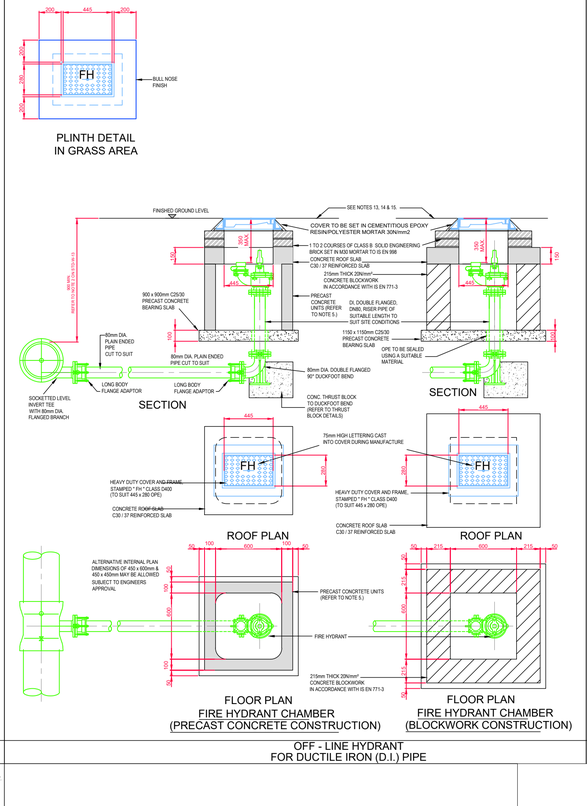
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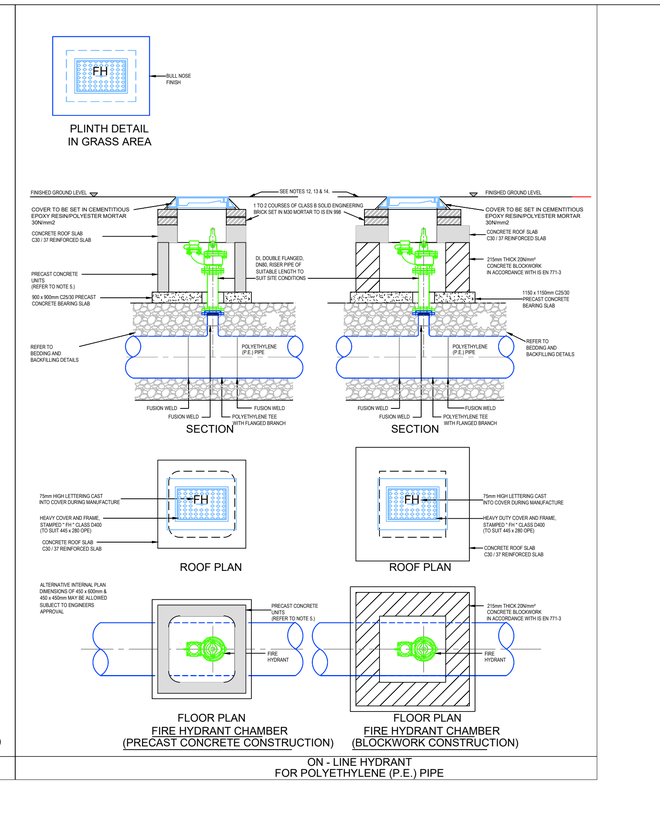
SLUICE VALVE
FOR POLYETHYLENE (P.E.) PIPE (< 350mm DIA.)



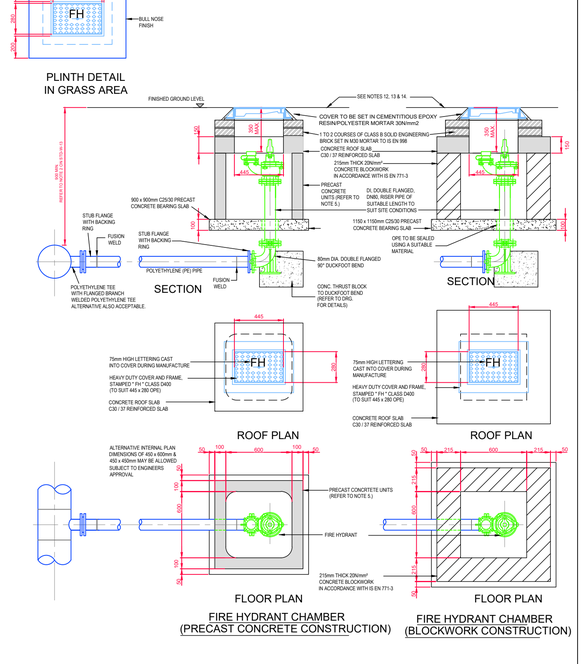
ON - LINE HYDRANT
FOR DUCTILE IRON (D.I.) PIPE



OFF - LINE HYDRANT
FOR DUCTILE IRON (D.I.) PIPE



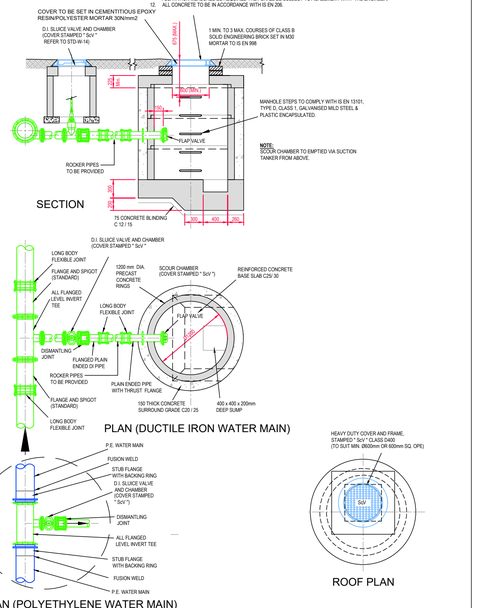
ON - LINE HYDRANT
FOR POLYETHYLENE (P.E.) PIPE



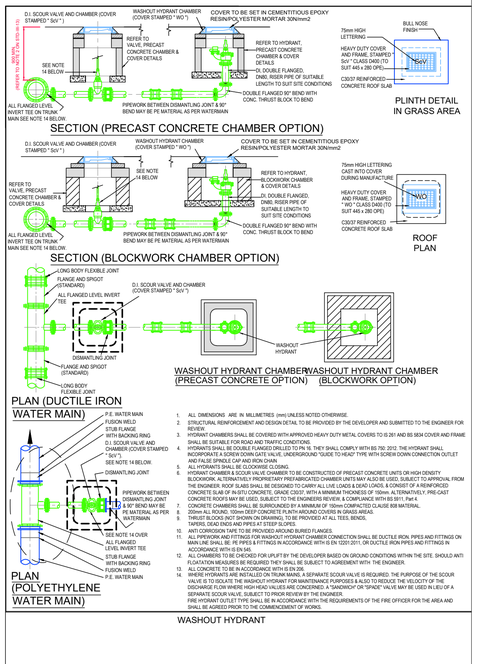
OFF - LINE HYDRANT
FOR POLYETHYLENE (P.E.) PIPE

DIAMETER OF WATERMAIN (mm)	DIAMETER OF SCOUR (mm)
NOT EXCEEDING 75	50
100 TO 200	75
200 TO 350	100

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. STRUCTURAL REINFORCEMENT AND DESIGN DETAIL TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO THE ENGINEER FOR REVIEW. ROOF SLABS SHALL BE DESIGNED TO CARRY ALL LIVE LOADS & DEAD LOADS, & CONSIST OF A REINFORCED CONCRETE SLAB OF IN-SITU CONCRETE, GRADE C30/37, WITH A MINIMUM THICKNESS OF 150mm. ALTERNATIVELY, PRE-CAST CONCRETE ROOFS MAY BE USED, SUBJECT TO REVIEW & COMPLIANCE WITH IS EN 1917 & IS 420.
3. CONCRETE FOR SCOUR CHAMBER AND HEADWALL TO BE C30 / 37.
4. PREFABRICATED CHAMBER AND HEADWALL MAY ALSO BE USED, SUBJECT TO REVIEW FROM THE ENGINEER.
5. SCOUR CHAMBER SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS EN 124 RATING D400. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO REVIEW USOE EIREANN.
6. 200mm ALL ROUND. 100mm DEEP CONCRETE PLINTH AROUND COVERS IN GRASS AREAS.
7. FINAL DETAIL TO BE REVIEWED BY USOE EIREANN AND RELEVANT REGULATORY AUTHORITIES.
8. THRUST BLOCKS (NOT SHOWN ON DRAWING), TO BE PROVIDED AS PER STANDARD DRAWING AT ALL TEES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.
9. ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
10. ALL PIPEWORK AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545. PE PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 12201-2011.
11. ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE. SHOULD ANTI FLOATATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO AGREEMENT WITH THE ENGINEER.
12. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.



SCOUR CHAMBER
ARRANGEMENTS



1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. STRUCTURAL REINFORCEMENT AND DESIGN DETAIL TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO THE ENGINEER FOR REVIEW.
3. HYDRANT CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS 261 AND BS 5834 COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS.
4. HYDRANTS SHALL BE DOUBLE FLANGED DRILLED TO PN 16. THEY SHALL COMPLY WITH BS 750: 2012. THE HYDRANT SHALL INCORPORATE A SCREW DOWN GATE VALVE, UNDERGROUND "GUIDE TO HEAD" TYPE WITH SCREW DOWN CONNECTION OUTLET AND FALSE SPINDLE CAP AND IRON CHAIN
5. ALL HYDRANTS SHALL BE CLOCKWISE CLOSING.
6. HYDRANT CHAMBER & SCOUR VALVE CHAMBER TO BE CONSTRUCTED OF PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK. ALTERNATIVELY PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED, SUBJECT TO APPROVAL FROM THE ENGINEER. ROOF SLABS SHALL BE DESIGNED TO CARRY ALL LIVE LOADS & DEAD LOADS, & CONSIST OF A REINFORCED CONCRETE SLAB OF IN-SITU CONCRETE, GRADE C30/37, WITH A MINIMUM THICKNESS OF 150mm. ALTERNATIVELY, PRE-CAST CONCRETE ROOFS MAY BE USED, SUBJECT TO THE ENGINEERS REVIEW, & COMPLIANCE WITH BS 5911, Part 4.
7. CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL.
8. 200mm ALL ROUND. 100mm DEEP CONCRETE PLINTH AROUND COVERS IN GRASS AREAS.
9. THRUST BLOCKS, (NOT SHOWN ON DRAWING), TO BE PROVIDED AT ALL TEES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.
10. ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
11. ALL PIPEWORK AND FITTINGS FOR WASHOUT HYDRANT CHAMBER CONNECTION SHALL BE DUCTILE IRON. PIPES AND FITTINGS ON MAIN LINE SHALL BE: PE PIPES & FITTINGS IN ACCORDANCE WITH IS EN 12201-2011, OR DUCTILE IRON PIPES AND FITTINGS IN ACCORDANCE WITH IS EN 545.
12. ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE. SHOULD ANTI FLOATATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO AGREEMENT WITH THE ENGINEER.
13. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
14. WHERE HYDRANTS ARE INSTALLED ON TRUNK MAINS, A SEPARATE SCOUR VALVE IS REQUIRED. THE PURPOSE OF THE SCOUR VALVE IS TO ISOLATE THE WASHOUT HYDRANT FOR MAINTENANCE PURPOSES & ALSO TO REDUCE THE VELOCITY OF THE DISCHARGE FLOW WHERE HIGH HEAD VALVES ARE CONCERNED. A "SANDWICH" OR "SPADE" VALVE MAY BE USED IN LIEU OF A SEPARATE SCOUR VALVE, SUBJECT TO PRIOR REVIEW BY THE ENGINEER.
FIRE HYDRANT OUTLET TYPE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FIRE OFFICER FOR THE AREA AND SHALL BE AGREED PRIOR TO THE COMMENCEMENT OF WORKS.

WASHOUT HYDRANT

LEGEND

NOTES
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PROJECT TITLE
WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

DRN BY: cc | CHKD BY: | APP BY: cc

SCALE: | DATE: NOV 2026

STATUS: TENDER

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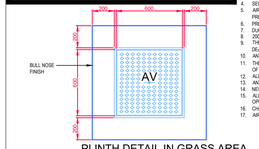
DRAWING TITLE
VALVE AND METER CHAMBERS
SHEET 1 OF 2

PROJECT No. 26043 | DRAWING No. WD11 | REV

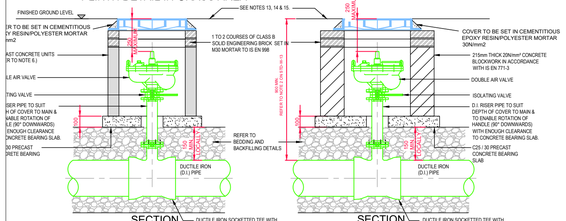
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DIAMETER OF MAIN	UP TO 250 (mm)	250 TO 350 (mm)
DIAMETER OF BRANCH	80mm	100mm
BORE OF VALVE INLET	80mm	100mm

1. ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. AIR VALVE CHAMBERS SHALL BE COVERED WITH APPROVED VENTILATED HEAVY DUTY DUCTILE IRON COVERS TO IS EN 124 RATING D400. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS.
3. AIR VALVES SHALL COMPLY WITH THE REQUIREMENTS OF IS EN 1074-4. AIR VALVES SHALL BE DOUBLE ORIFICE TYPE AND SHALL INCLUDE AN ISOLATING VALVE. THE ISOLATING VALVE SHALL BE EITHER A GATE VALVE CONFORMING TO IS EN 1074-2 & SHALL BE OF A BOLTLESS BONNET DESIGN, OR A BUTTERFLY VALVE TO IS EN 1074-2.
4. SERVICE CONNECTIONS SHALL NOT BE PROVIDED WITHIN 2m OF THE AIR VALVE LOCATION.
5. AIR VALVE CHAMBERS TO BE OF PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK. ALTERNATIVE PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED.
6. PRECAST CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL.
7. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545.
8. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH AROUND COVERS IN GREEN AREAS.
9. THRUST BLOCKS (NOT SHOWN ON DRAWING), TO BE PROVIDED AS PER STANDARD DRAWING AT ALL TEES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.
10. ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
11. THE LOCATION OF THE AIR VALVE SHALL BE THE SUBJECT OF PARTICULAR AGREEMENT WITH THE ENGINEER TO ENSURE THAT THE RISK OF CONTAMINATION THROUGH THE VALVE IS ELIMINATED.
12. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
13. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS.
14. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS.
15. ALL TEMPORARY AND PERMANENT ROAD REINSTATEMENT TO COMPLY WITH CURRENT VERSION OF "GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS" BY THE DEPT. OF TRANSPORT, OR TRANSPORT INFRASTRUCTURE IRELAND REQUIREMENTS.
16. CHAMBERS SHALL BE PROVIDED WITH GRADE 'K' HEAVY DUTY COVER & FRAME & STAMPED "AV".
17. AIR VALVES SOULD BE LOCATED IN NON TRAFFICABLE AREAS TO AVOID CONTAMINATION FROM SURFACE POLLUTANTS.

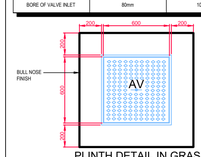


PLINTH DETAIL IN GRASS AREA

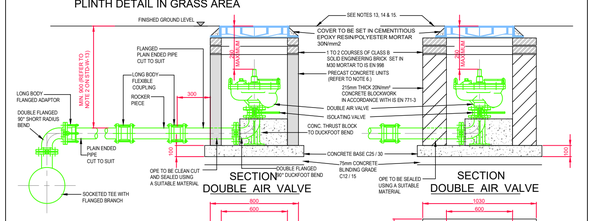


ON - LINE AIR VALVE
FOR DUCTILE IRON (D.I.) PIPE

DIAMETER OF MAIN	UP TO 250 (mm)	250 TO 350 (mm)
DIAMETER OF BRANCH	80mm	100mm
BORE OF VALVE INLET	80mm	100mm

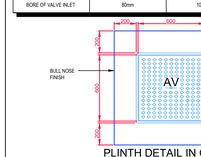


PLINTH DETAIL IN GRASS AREA

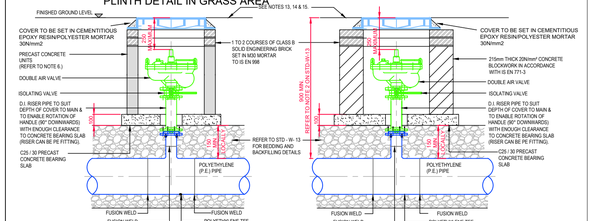


OFF - LINE AIR VALVE
FOR DUCTILE IRON (D.I.) PIPE

DIAMETER OF MAIN	UP TO 250 (mm)	250 TO 350 (mm)
DIAMETER OF BRANCH	80mm	100mm
BORE OF VALVE INLET	80mm	100mm

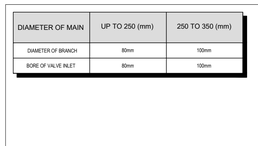


PLINTH DETAIL IN GRASS AREA

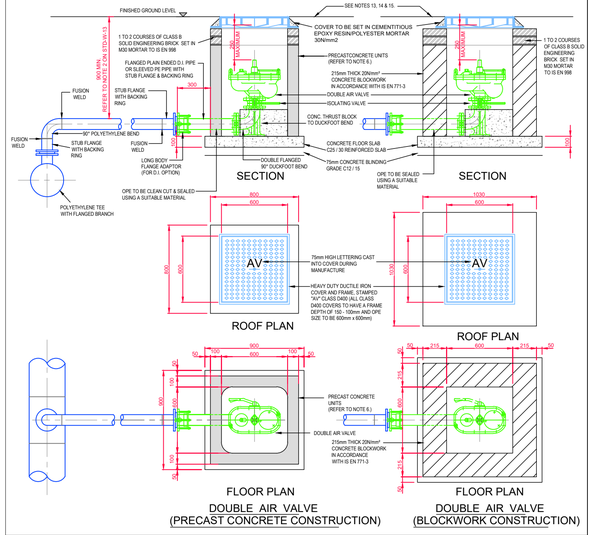


ON - LINE AIR VALVE

DIAMETER OF MAIN	UP TO 250 (mm)	250 TO 350 (mm)
DIAMETER OF BRANCH	80mm	100mm
BORE OF VALVE INLET	80mm	100mm



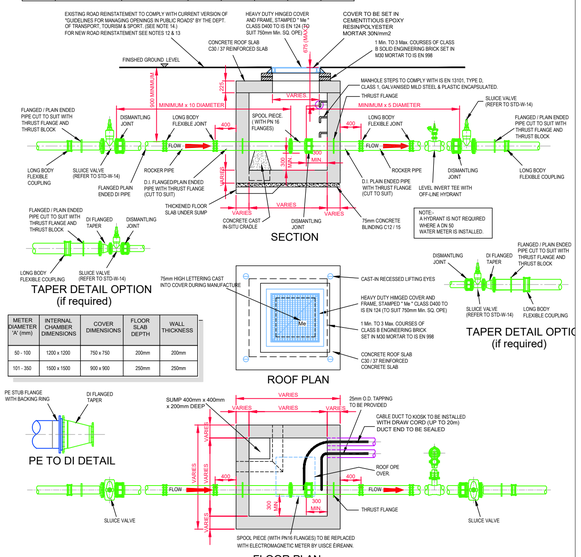
PLINTH DETAIL IN GRASS AREA



OFF - LINE AIR VALVE
FOR POLYETHYLENE (P.E.) PIPE

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. STRUCTURAL DESIGN AND REINFORCEMENT DETAIL TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO THE ENGINEER FOR REVIEW. ROOF SLABS SHALL BE DESIGNED TO CARRY ALL LIVE LOADS & DEAD LOADS, & CONSIST OF A REINFORCED CONCRETE SLAB OF IN-SITU CONCRETE, GRADE C30/37, WITH A MINIMUM THICKNESS OF 225mm. ALTERNATIVELY, PRE-CAST CONCRETE ROOFS MAY BE USED, SUBJECT TO THE ENGINEERS AGREEMENT, & COMPLIANCE WITH IS EN 1917 & IS 420
3. CONCRETE FOR FLOW METER CHAMBER TO BE C30 / 37.
4. PRECAST UNITS COMPLETED WITH RUBBER SEALING GASKET BETWEEN UNITS, COMPLYING WITH THE REQUIREMENTS OF IS EN 1917 AND IS 420, COMPLETE WITH 150mm CONCRETE SURROUND MAY BE USED AS AN ACCEPTABLE ALTERNATIVE. CONCRETE SURROUND TO BE GRADE C25/35 IN ACCORDANCE WITH IS EN 206.
5. METER CHAMBER SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS EN 124 RATING D400. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS.
6. 200mm ALL ROUND, 100mm DEEP CONCRETE PLINTH AROUND COVER IN GRASS AREAS.
7. ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
8. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545, PE PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 12201:2011.
9. ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE. SHOULD ANTI FLOATATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER
10. PIPEWORK TO BE DOWNSIZED TO ACCOMMODATE THE REQUIRED RANGE OF THE FLOW METER. STRAIGHT PIPE LENGTHS UPSTREAM AND DOWNSTREAM OF THE METER TO BE PROVIDED. THE METER SHALL BE CAPABLE OF ACCURATE NIGHT FLOW MEASUREMENT.
11. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
12. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS.
13. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS.
14. ALL TEMPORARY AND PERMANENT ROAD REINSTATEMENT TO COMPLY WITH CURRENT VERSION OF "GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS" BY THE DEPT. OF TRANSPORT, OR TRANSPORT INFRASTRUCTURE IRELAND REQUIREMENTS.

ELECTROMAGNETIC WATER METER SPOOL PIECE LENGTHS									
Ø mm	DN50	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350
Length mm	200		250		300	350	450	500	550



METER DIAMETER 'A' (mm)	INTERNAL CHAMBER DIMENSIONS	COVER DIMENSIONS	FLOOR SLAB DEPTH	WALL THICKNESS
50 - 100	1200 x 1200	750 x 750	200mm	200mm
101 - 350	1500 x 1500	900 x 900	250mm	250mm

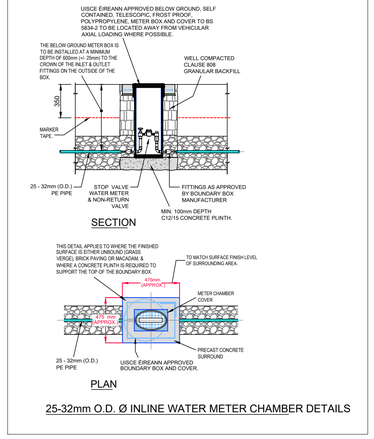
ELECTROMAGNETIC METER CHAMBER
(80 - 350mm DIA.)

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. FOR CONNECTION TO AN EXISTING MAIN THE CONNECTION SHALL BE AS PER THE PIPE MANUFACTURER'S SPECIFICATION.
3. ELECTRICITY SUPPLY TO BE 230V 50 Hz 1Ø WITHIN 10m OF METER LOCATION.
4. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.

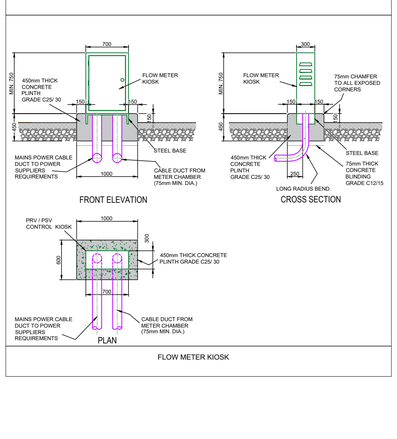
BOUNDARY BOX NOTES

1. THE CONSUMER METER UNIT IS TO BE IN ACCORDANCE WITH THE UISCE EIREANN SPECIFICATION, INCORPORATING A STOP TAP, FROST PLUG & NON-RETURN VALVE.
2. THE CONSUMER METER UNIT SHALL BE POSITIONED IN PUBLIC SPACE & AS CLOSE AS POSSIBLE (1m) TO THE PROPERTY BOUNDARY, BUT NOT MORE THAN 2m FROM IT.
3. THE CONSUMER METER UNIT SHALL BE LOCATED WHERE IT IS SAFE TO OPEN THE COVER & ACCESS THE STOP TAP OR VISUALLY READ THE METER, i.e. ON A FOOTPATH OR VERGE, & NOT IN A DRIVEWAY.
4. THE SURFACE BOX COVER ON THE CONSUMER METER UNIT SHOULD BE NOT LESS THAN GRADE C (EN temp 124) & THE UNIT SHOULD BE LOCATED SUCH THAT HEAVIER GRADES OF COVER WOULD NOT BE REQUIRED.
5. THE SWAY OF THE CONSUMER METER UNIT IS TO BE INSTALLED VERTICALLY & THE SURFACE BOXCOVER INCLINED TO MATCH THE SURFACE GRADIENT.
6. THE CONSUMER METER UNIT IS TO BE INSTALLED AT A MINIMUM DEPTH OF 0.75m. (SHALLOW CONNECTION) FROM INLET & OUTLET FITTINGS ON THE OUTSIDE OF THE BOX.
7. THE CONSUMER METER UNIT SHALL NOT BE WRAPPED AROUND THE SWAY OF THE CONSUMER METER UNIT OR DIRECT IN CONTACT WITH INSULATION THAT HAS NOT BEEN APPROVED BY THE MANUFACTURER.
8. THE PIPE FITTINGS TO THE CONSUMER METER UNIT SHALL BE AS APPROVED BY THE CONSUMER METER UNIT MANUFACTURER.
9. THE CONSUMER METER UNIT SHALL BE INSTALLED HYGIENICALLY & LEFT CLEAN & FREE OF CONSTRUCTION WASTE OR DIRT
10. THE CONSUMER METER UNIT SHALL BE INSTALLED ON A FIRM BASE OF COMPACTED GRANULAR MATERIAL.
11. THE DESIRABLE MINIMUM COVER FROM THE FINISHED GROUND LEVEL TO THE EXTERNAL CROWN OF A SERVICE CONNECTION SHALL BE 750mm WITH AN ABSOLUTE MINIMUM DEPTH OF 600mm FOR SHORT DISTANCES (SUBJECT TO ENGINEERS AGREEMENT). THE DESIRABLE MAXIMUM COVER FOR A SERVICE CONNECTION PIPE SHOULD BE 900mm, WHERE PRACTICABLE.



25-32mm O.D. Ø INLINE WATER METER CHAMBER DETAILS

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. THE KIOSK SHALL BE LOCATED SO AS TO FACILITATE SAFE ACCESS FOR MAINTENANCE PERSONNEL.
3. KIOSK TO BE CONSTRUCTED FROM THERMOSETTING U.V. & WEATHER RESISTANT PLASTIC POWDER COATED & HOT DIPPED GALVANISED STEEL (MINIMUM 3mm THICKNESS) IN ACCORDANCE WITH BS EN 1461. STAINLESS STEEL MAY BE USED AS AN ALTERNATIVE KIOSK MATERIAL, PARTICULARLY IN SEVERE ENVIRONMENTS. SUBJECT TO AGREEMENT WITH THE ENGINEER.
4. KIOSK TO HAVE SINGLE OR DOUBLE STEEL/GRP DOORS WITH BALTIC LOCKS TO LPS 1175 SR2 OR EN 1627. MINIMUM DOUBLE LOCKS WITH BOLTS THAT ENGAGE INTO THE SILL & HEADER AS WELL AS BETWEEN THE TWO LEAVES OR (FOR A FRAME LOADING EDGE OF LEAVES TO HAVE EITHER RIBBED EDGES OR PITTED WITH ASTRAGALS.
5. COLOUR TO BE HOLLY GREEN BS 4800 18 C39. INTERIOR FINISH TO BE WHITE UNLESS APPROVED BY THE ENGINEER.
6. THE QUALITY OF KIOSK CONSTRUCTION SHALL ENSURE THAT THE FOLLOWING IS ACHIEVED:
   (a) A THERMAL TRANSMITTANCE OF 1.5W/ºDS m²K.
   (b) A PIR RESISTANCE/DETECTION OF 37MM (ATT. INTEGRITY AND INSULATION) EQUIVALENT TO CLASS 2 OF BS EN, WHEN TESTED IN ACCORDANCE WITH BS 476 FOR A PERIOD EXCEEDING 30 MINUTES.
   (c) AN IP RATING OF IP54 OR EQUIVALENT.
7. KIOSK TO BE SECURED TO THE PLINTH THROUGH A BOTTOM FLANGE WITH GALVANISED MILD STEEL OR STAINLESS STEEL ANCHOR BOLTS.
8. THE BOTTOM FLANGE SHALL BE SEALED ON A NEOPRENE GASKET AND SEALED WITH MASTIC
9. REAR WALL SHALL BE REINFORCED WITH STAINLESS STEEL SECTIONS TO WHICH A MARINE PLY WOOD 18mm THICK BOARD IS FIXED.
10. THE SKID/PLOPPER SHALL BE RESPONSIBLE FOR THE ULTIMATE SIZING OF THE KIOSK TO ENSURE ADEQUATE SPACE REQUIREMENTS - MINIMUM DIMENSIONS SHOWN BELOW.
11. TELEMETRY DUCTING TO BE IN ACCORDANCE WITH BS EN 50085-1:2005 AND ENATS 12-24.
12. ELECTRICAL REQUIREMENTS TO BE IN ACCORDANCE WITH ESB SPECIFICATION.
13. THE ROOF OF THE KIOSK SHALL BE REMOVABLE (SECTIL TO FACILITATE BACKHOARD REMOVAL.
14. ALL EXPOSED PERSONS TO BE ADEQUATELY INSULATED WITH PPE LAGGING.
15. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.



FLOW METER KIOSK

LEGEND

NOTES

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PROJECT TITLE
WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

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SCALE: | DATE: NOV 2026

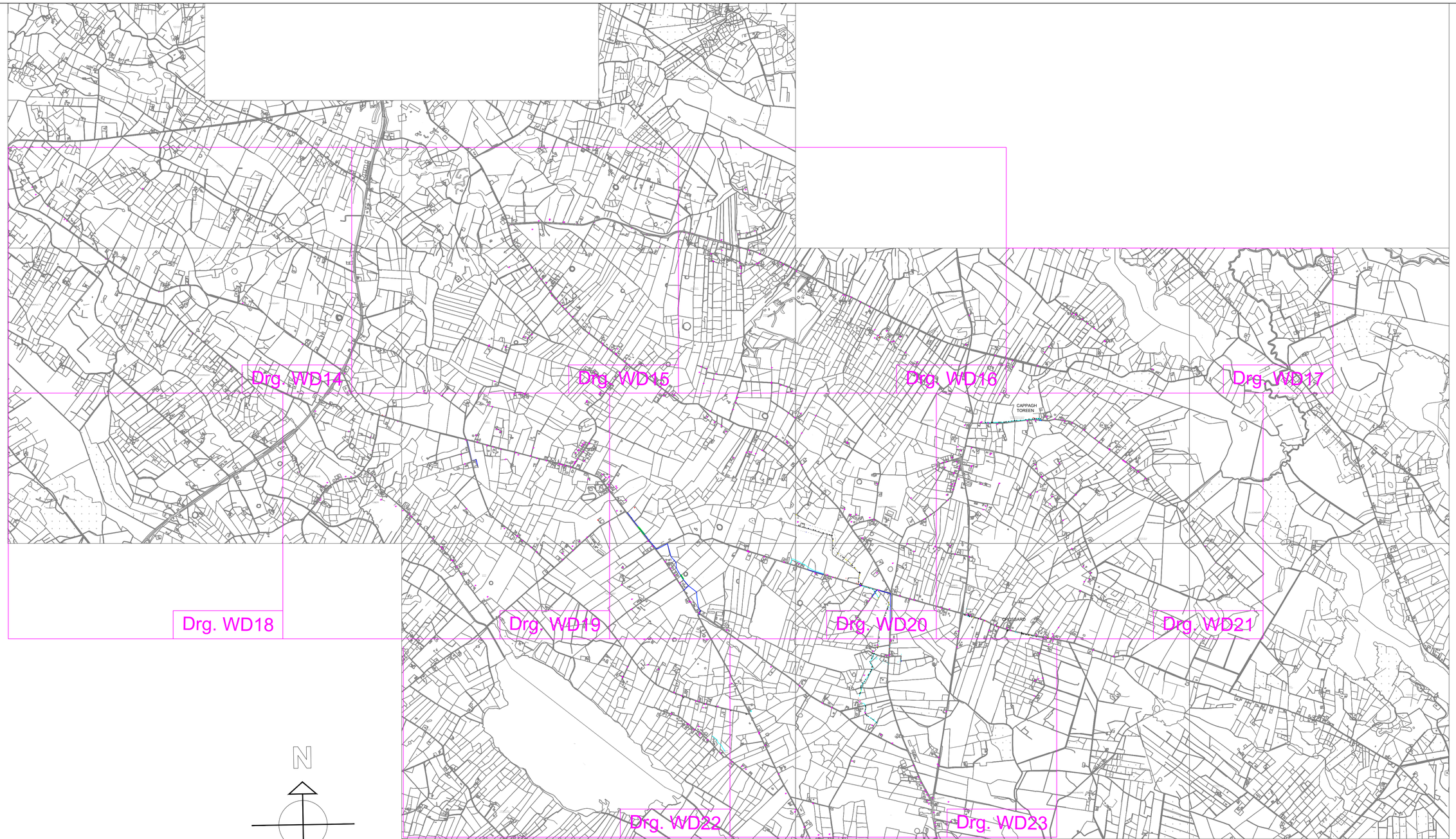
STATUS: TENDER

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DRAWING TITLE
VALVE AND METER CHAMBERS
SHEET 2 OF 2

PROJECT No. 26043 | DRAWING No. WD12 | REV

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LEGEND

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REV:	DATE:	REVISION NOTE:	DRN:	CHKD:

PROJECT TITLE
WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

DRN BY: cc | CHKD BY: cc | APP BY: cc

SCALE: 1/20000 | DATE: NOV. 2026

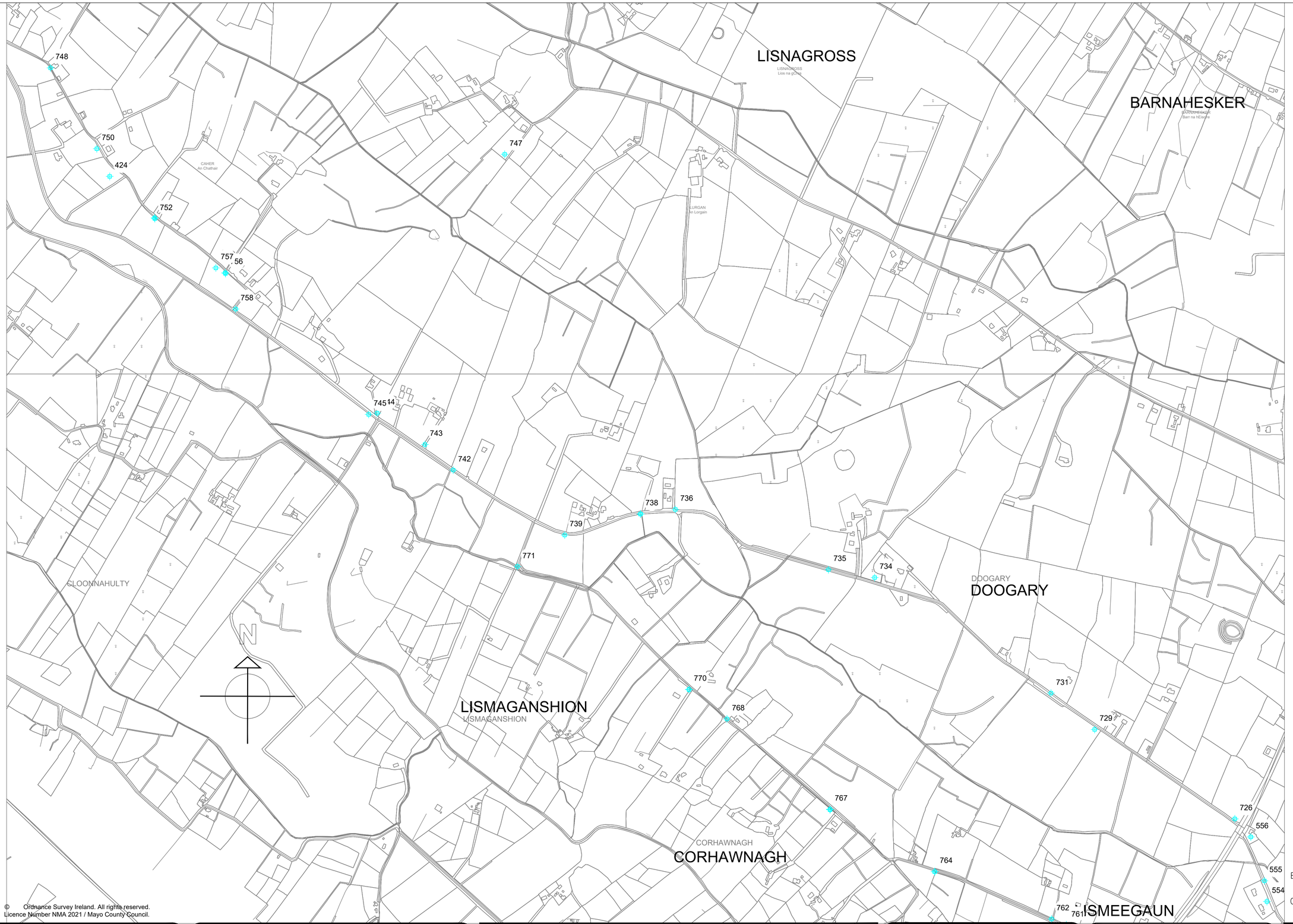
STATUS: TENDER

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DRAWING TITLE
KEY PLAN TO METER LOCATIONS

PROJECT No. 26043 | DRAWING No. WD13 | REV

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BULK FLOW METER SHOWN BMxx

CONSUMER METER UNIT SHOWN xxx

LEGEND

NOTES

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WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

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DRN BY: cc | CHKD BY: cc | APP BY: cc

DRAWING TITLE
LAYOUT PLAN SHOWING EXISTING CONSUMER METER UNIT AND BULK METER LOCATIONS (SHEET 1 OF 9)

SCALE: 1/5000 | DATE: NOV. 2026

STATUS: TENDER

PROJECT No.: 26043 | DRAWING No.: WD14 | REV:

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CLOGHVOLEY
An Chlochbhuaile

CLOGHNCAH
Cluain Catha

CASHELTOURLY
CASHELTOURLY
Caiseal Tuaire

BRUFF
BRUFF

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336 335 890 332 330 328 326 323 380
338 339 337 340 341 342 343 344 345 346 347 348 349 350 351 352 354 355 356 918 357 360 359 361 362 725 724 363 364 365 367 368 369
687 688 686 680 683 719 720 722 718 723 715 716 714 666 670 671 672 662 867

N

BULK FLOW METER SHOWN BMxx

CONSUMER METER UNIT SHOWN xxx

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REV:	DATE:	REVISION NOTE:	DRN:	CHKD:

PROJECT TITLE
WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

DRN BY: cc | CHKD BY: cc | APP BY: cc

SCALE: 1/5000 | DATE: NOV. 2026

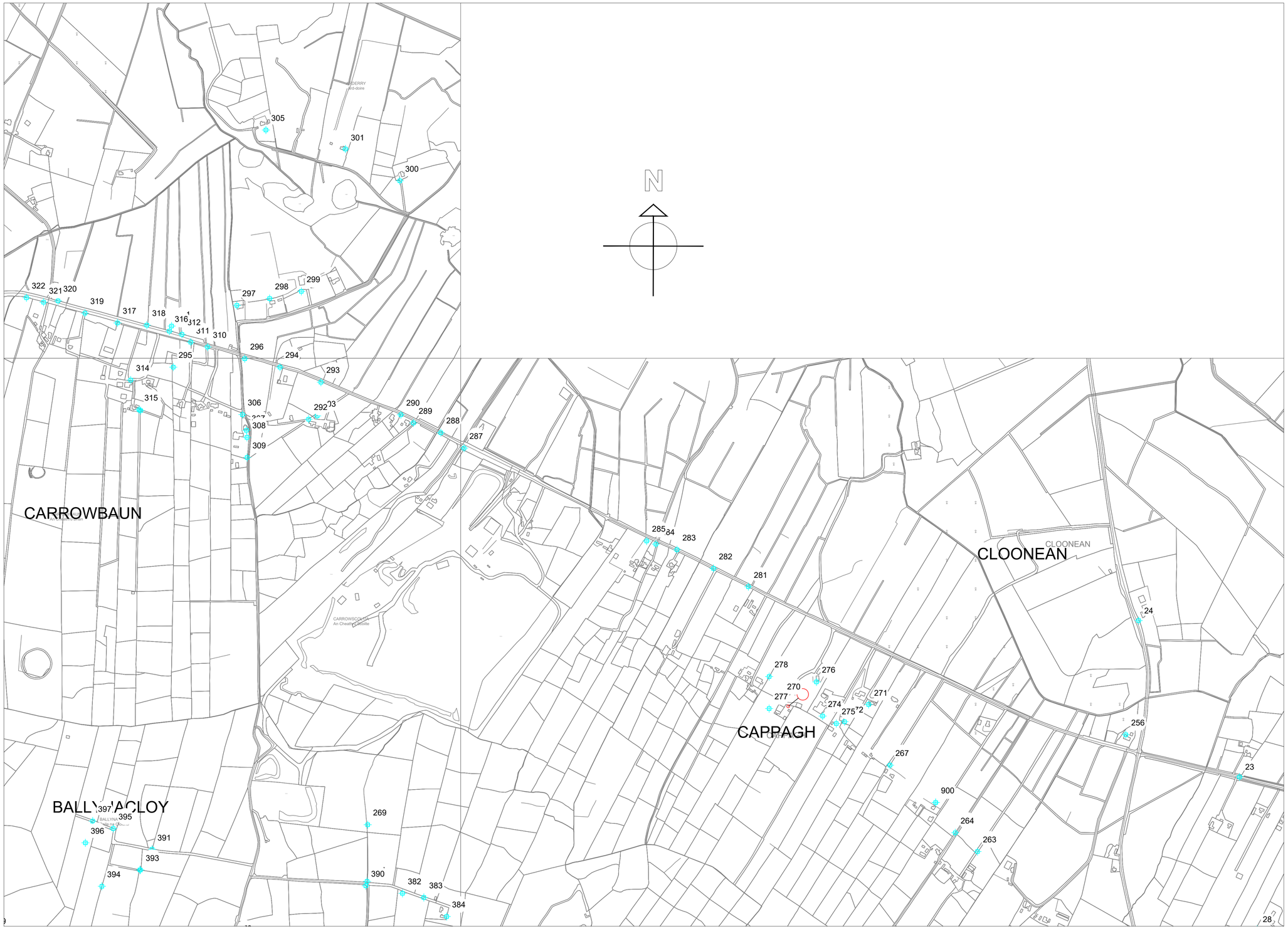
STATUS: TENDER

CLIENT
TOOREEN AGHAMORE GWS

DRAWING TITLE
LAYOUT PLAN SHOWING EXISTING CONSUMER METER UNIT AND BULK METER LOCATIONS (SHEET 2 OF 9)

PROJECT No. 26043 | DRAWING No. WD15 | REV

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PROJECT TITLE
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DRN BY: cc | CHKD BY: cc | APP BY: cc

SCALE: 1/5000 | DATE: NOV. 2026

STATUS: TENDER

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TOOREEN AGHAMORE GWS

DRAWING TITLE
LAYOUT PLAN SHOWING EXISTING CONSUMER METER UNIT AND BULK METER LOCATIONS (SHEET 3 OF 9)

PROJECT No. 26043 | DRAWING No. WD16 | REV

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PROJECT TITLE
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DRN BY: cc | CHKD BY: cc | APP BY: cc

SCALE: 1/5000 | DATE: NOV. 2026

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DRAWING TITLE
LAYOUT PLAN SHOWING EXISTING CONSUMER METER UNIT AND BULK METER LOCATIONS (SHEET 4 OF 9)

PROJECT No. 26043 | DRAWING No. WD17 | REV

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PROJECT TITLE
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DRAWING TITLE
LAYOUT PLAN SHOWING EXISTING CONSUMER METER UNIT AND BULK METER LOCATIONS (SHEET 5 OF 9)

PROJECT No. 26043 | DRAWING No. WD18 | REV

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RALLYHINE

BOLEYBOY

TOOREEN

CARTRON NORTH

CARTRON

CORNAGEAGHTA

LARALEA

CASHELS

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PROJECT TITLE
WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

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SCALE: 1/5000 | DATE: NOV. 2026

STATUS: TENDER

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DRAWING TITLE
LAYOUT PLAN SHOWING EXISTING CONSUMER METER UNIT AND BULK METER LOCATIONS (SHEET 6 OF 9)

PROJECT No. 26043 | DRAWING No. WD19 | REV

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CLOONGAWNAGH
(Cosgrave)

CLOONGAWNAGH
(Burke)

CROSSBEG

CROSSARD

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PROJECT TITLE
WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

DRN BY: cc | CHKD BY: cc | APP BY: cc

SCALE: 1/5000 | DATE: NOV. 2026

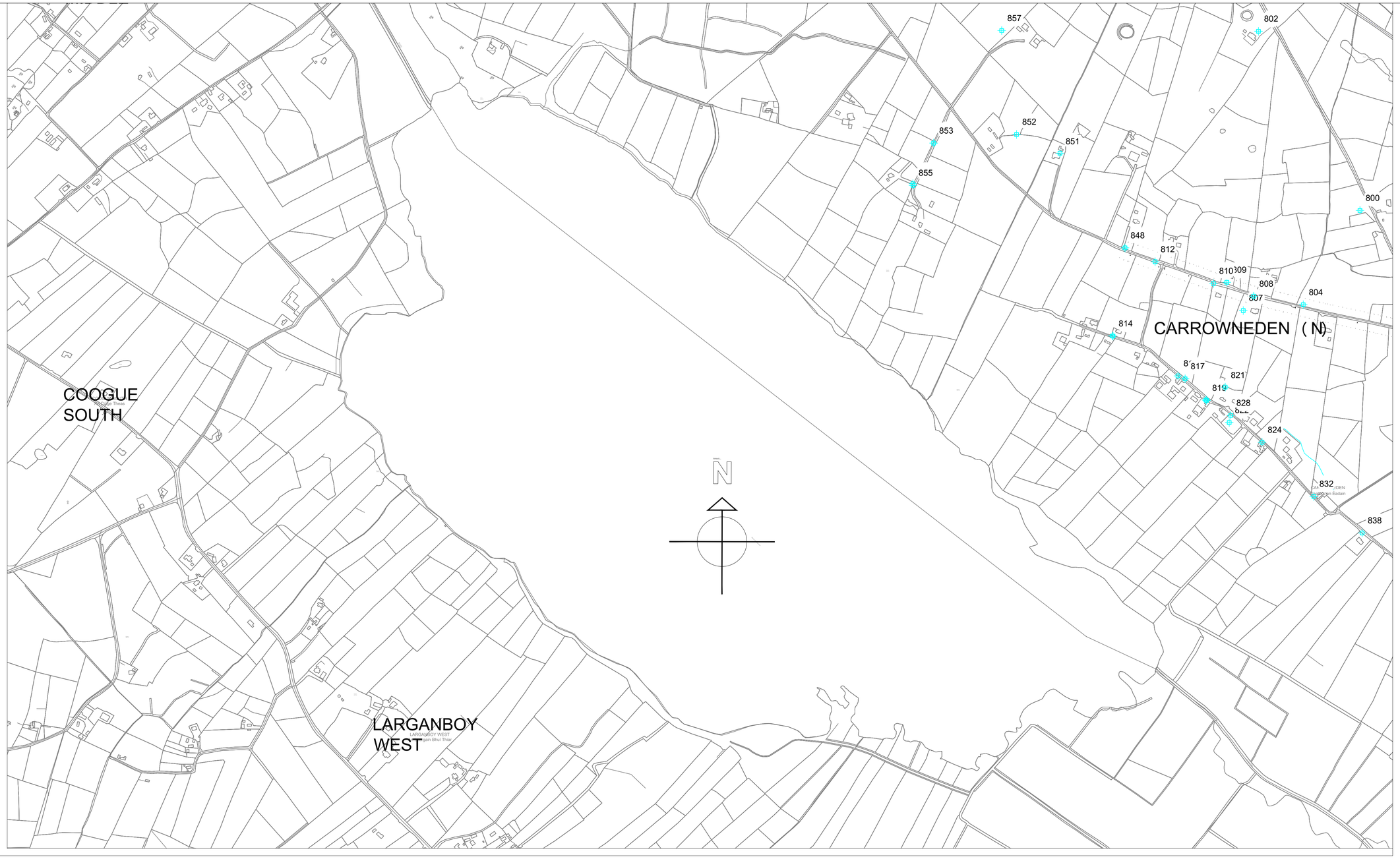
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TOOREEN AGHAMORE GWS

DRAWING TITLE
LAYOUT PLAN SHOWING EXISTING CONSUMER METER UNIT AND BULK METER LOCATIONS (SHEET 7 OF 9)

PROJECT No. 26043 | DRAWING No. WD20 | REV

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PROJECT TITLE
WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

DRN BY: cc	CHKD BY: cc	APP BY: cc

SCALE: 1/5000	DATE: NOV. 2026

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LAYOUT PLAN SHOWING EXISTING CONSUMER METER UNIT AND BULK METER LOCATIONS (SHEET 8 OF 9)

PROJECT No. 26043

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CARNBEG

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COOLNAHA NORTH

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TAWNAGHMORE

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PROJECT TITLE
WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

DRN BY: cc	CHK'D BY: cc	APP BY: cc

SCALE: 1/5000	DATE
	NOV. 2026

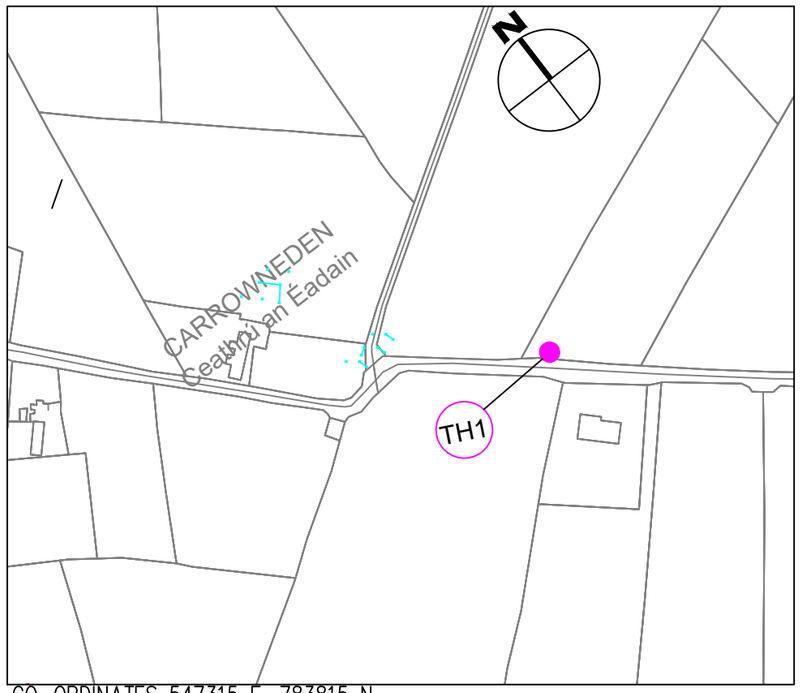
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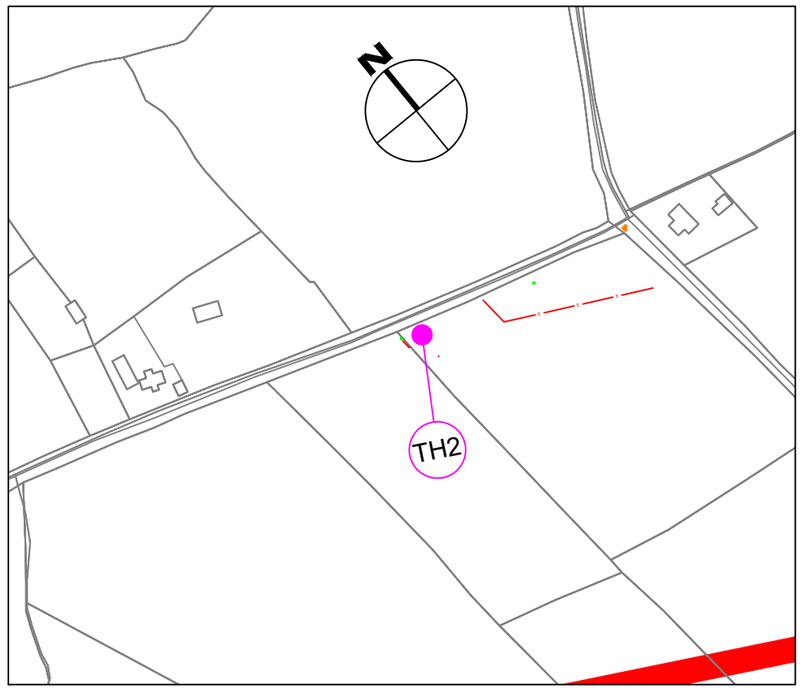
DRAWING TITLE
LAYOUT PLAN SHOWING EXISTING CONSUMER METER UNIT AND BULK METER LOCATIONS (SHEET 9 OF 9)

PROJECT No.	DRAWING No.	REV
26043	WD22	

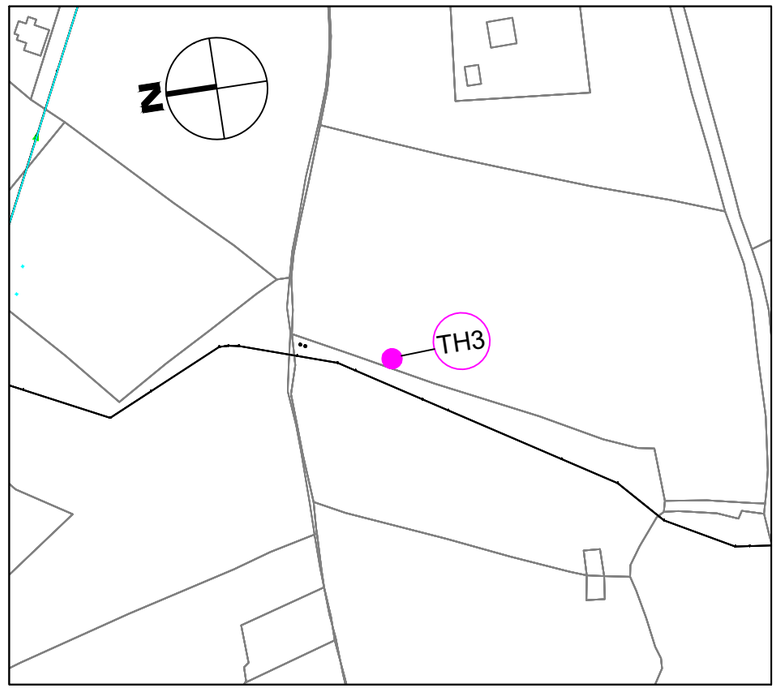
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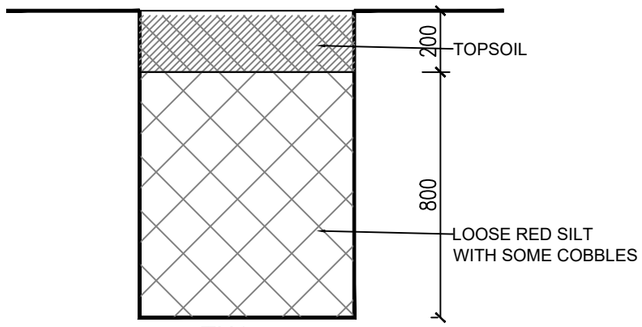
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REFER TO DRAWING WD01



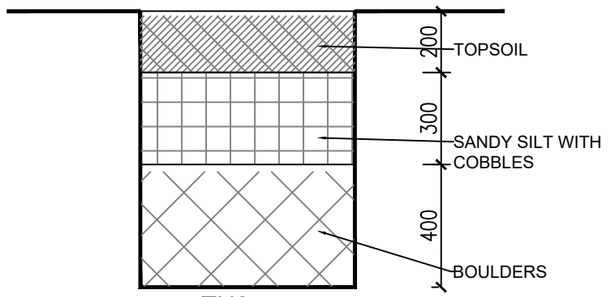
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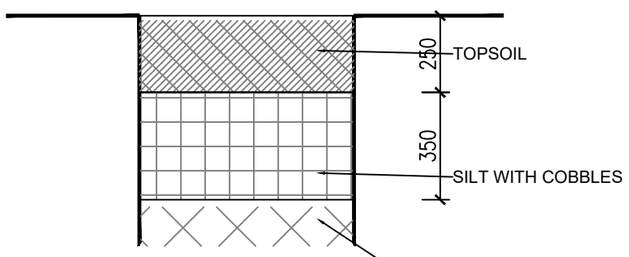
CO-ORDINATES 548723 E, 784697 N
REFER DRAWING WD03



TH1
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TH2
(548209 E, 783356 N)



TH3
(548723 E, 784697 N)

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PROJECT TITLE
WATER METER UPGRADE AND
NETWORK IMPROVEMENT WORKS
PHASE 2

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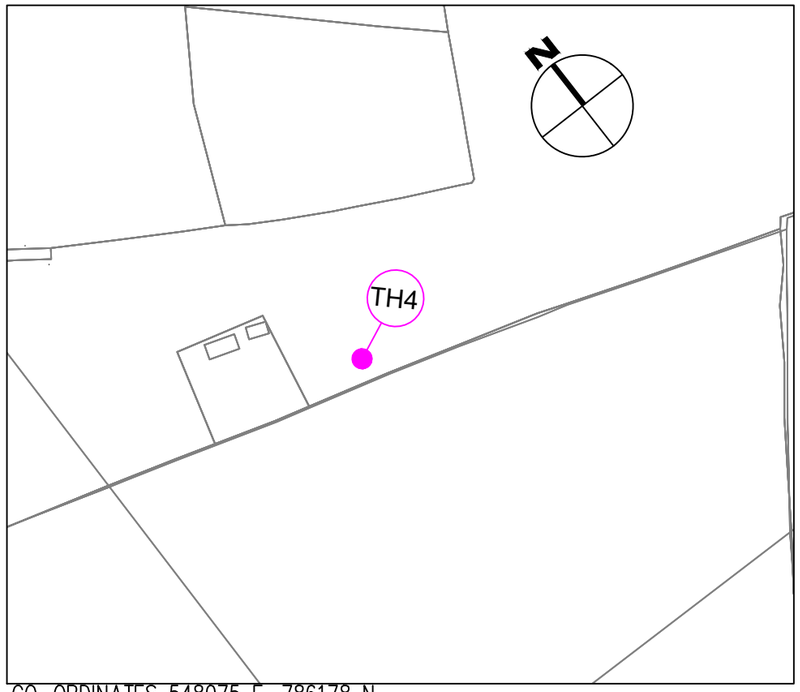
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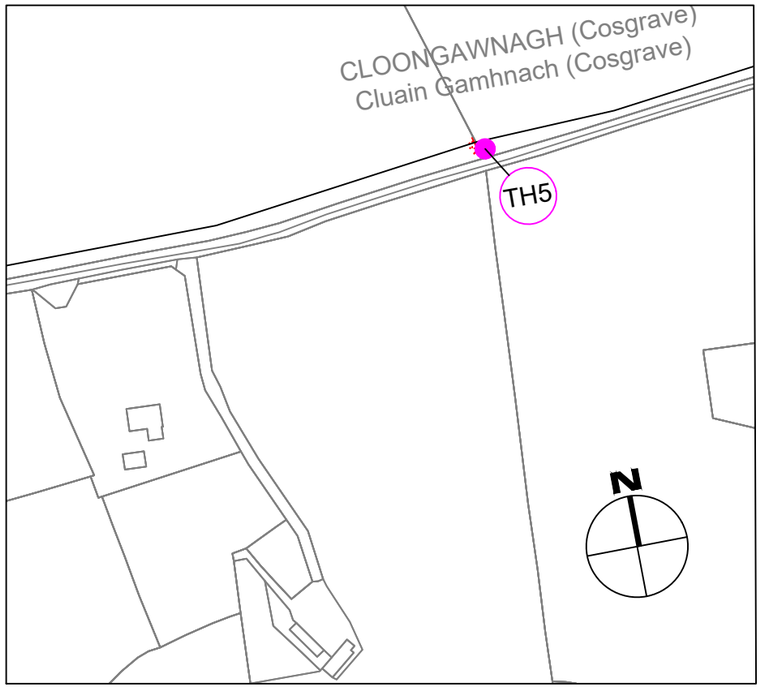
DRAWING TITLE
TRIAL HOLE DETAILS
SHEET 1 OF 2

PROJECT No. 19057 | DRAWING No. SI 01 | REV

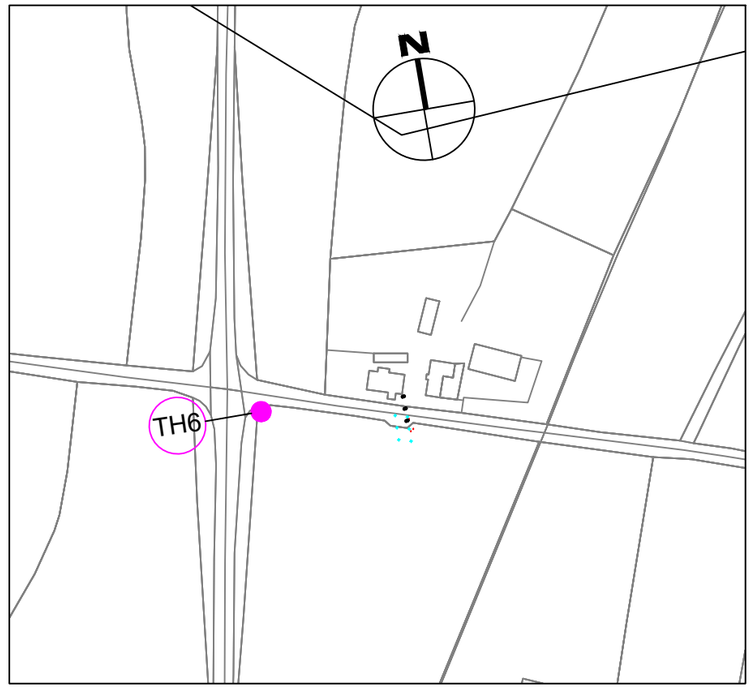
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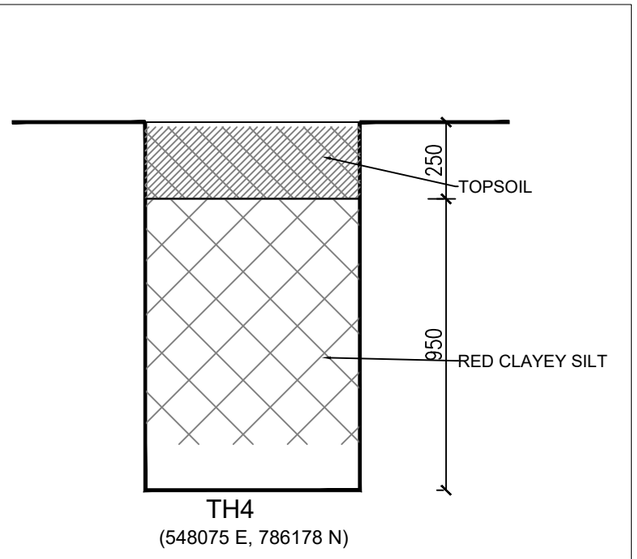
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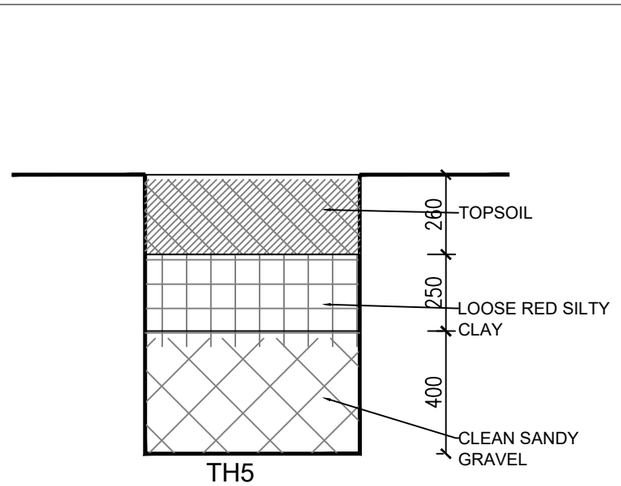
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REFER TO DRAWING WD05



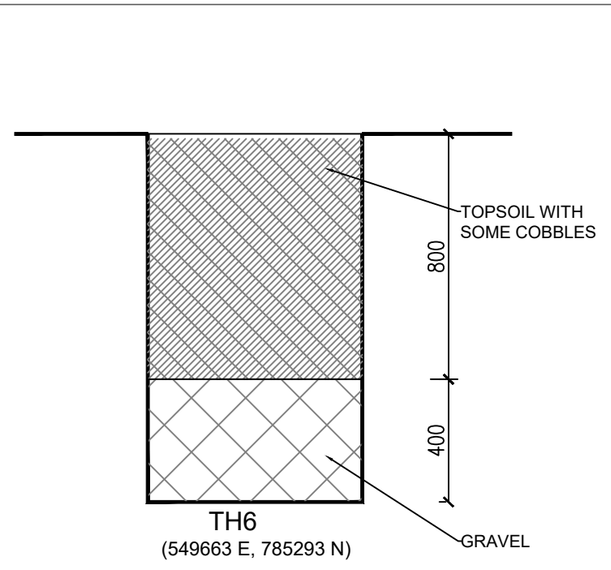
CO-ORDINATES 549663 E, 785293 N
REFER DRAWING WD04



TH4
(548075 E, 786178 N)



TH5
(550192 E, 787260 N)



TH6
(549663 E, 785293 N)

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PROJECT TITLE
WATER METER UPGRADE AND NETWORK IMPROVEMENT WORKS PHASE 2

DRN BY: cc | CHKD BY: | APP BY: cc

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DRAWING TITLE
TRIAL HOLE DETAILS
SHEET 2 OF 2

PROJECT No. 19057 | DRAWING No. SI 02 | REV

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