





A. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS, ARCHITECTS AND SPECIALISTS DRAWINGS.

NO PART OF THIS DRAWING MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR STORED IN ANY RETRIEVAL SYSTEM OF ANY NATURE WITHOUT THE WRITTEN PERMISSION OF MALONE O'REGAN CONSULTING ENGINEERS AS COPYRIGHT

HOLDER EXCEPT AS AGREED FOR USE ON THE PROJECT FOR WHICH THE DRAWING WAS ORIGINALLY ISSUED.

- B. ALL DIMENSIONS IN mm UNLESS NOTED.
- C. DO NOT SCALE DIMENSIONS.

OTHERWISE.

D. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. DISCREPANCIES SHALL BE REPORTED TO THIS OFFICE IN WRITING.

LOCAL AUTHORITY / COUNTY COUNCIL GUIDELINES FOR THE DESIGN AND CONSTRUCTION OF HOUSING MANUAL TO TAKE PRECIDENCE WHERE ANY CONFLICT OCCURS.

- 1. ALL DIMENSIONS IN MILLIMETRES (MM) UNLESS NOTED
- 2. HYDRANT CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS EN 261 AND BS 5834 COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO THE APPROVAL OF IRISH WATER.
- 3. 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 COVER "GUIDE TO HEAD" TYPE WITH SCREW DOWN CONNECTION OUTLET AND FALSE SPINDLE CAP AND IRON CHAIN.
- 4. ALL HYDRANTS SHALL BE CLOCKWISE CLOSING. HYDRANT 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 IRISH WATER
- 5. SLUICE VALVE CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO THE APPROVAL OF IRISH WATER.
- 6. SLUICE VALVES SHALL BE DOUBLE FLANGED WITH DUCTILE IRON RESILIENT SEAL GATE VALVES, SUITABLE FOR USE IN WATER MAINS. THEY SHALL COMPLY WITH THE REQUIREMENTS OF IS EN 1074 AND THEY SHALL HAVE THE BS KITEMARK.
- 7. ALL SLUICE VALVES SHALL BE ANTI-CLOCKWISE CLOSING.
- 8. 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 IRISH WATER.
- 9. AIR VALVE CHAMBERS SHALL BE COVERED WITH APPROVED VENTILATED HEAVY DUTY METAL COVERS TO IS EN 124: 1994 RATING D400. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO THE APPROVAL OF IRISH WATER.
- 10. AIR VALVES SHALL BE DOUBLE AIR VALVE TYPE WITH ISOLATING VALVE IN ACCORDANCE WITH THE REQUIREMENTS OF IS EN 1074. THE ISOLATING VALVE SHALL BE A RESILIENT SEATED GATE VALVE TO IS EN 1074 AND SHALL BE OF A BOLTLESS BONNET DESIGN.
- 11. THE AIR VALVES SHALL HAVE BODIES AND COVERS OF CAST IRON TO BS 1561 WITH FLANGES DRILLED TO PN 16 IN ACCORDANCE WITH BS EN 1091-1. EACH VALVE SHALL HAVE A LARGE AND A SMALL AIR ESCAPE ORIFICE WIT ANISOLATING VALVE.
- 12. SERVICE CONNECTIONS SHALL NOT BE PROVIDED WITHIN 2M OF THE AIR VALVE LOCATION.
- 13. AIRVALVE CHAMBERS TO BE OF PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK. ALTERNATIV PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED, SUBJECT TO APPROVAL FROM IRISH
- 14. CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150MM COMPACTED CLAUSE 804 MATERIAL AS PER STD-W-13.
- 15. 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.
- 16. 200MM ALL AROUND, 100MM DEEP CONCRETE PLINTH WITH PROTECTIVE STAINLESS STEEL METAL BAND AROUND COVERS IN GREEN AREAS.
- 17. THRUST BLOCKS (NOT SHOWN ON DRAWING), TO BE PROVIDED AS PER STANDARD DRAWING STD-W-28 AT ALL TEES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP
- 18. ANTI CORROSION TAPE TO BE PROVIDED
- 19. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.

Р	PART	8 PLANNING ISSUE	06.04.17	KD	ND
REV		DESCRIPTION	DATE	DRWN BY	CHKD BY
STAT	US	PURPOSE OF ISSUE			
( P		PART 8 PLANNIN	G		,



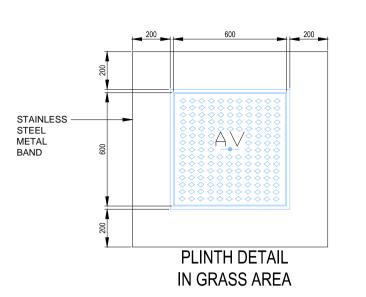
Clonskeagh,

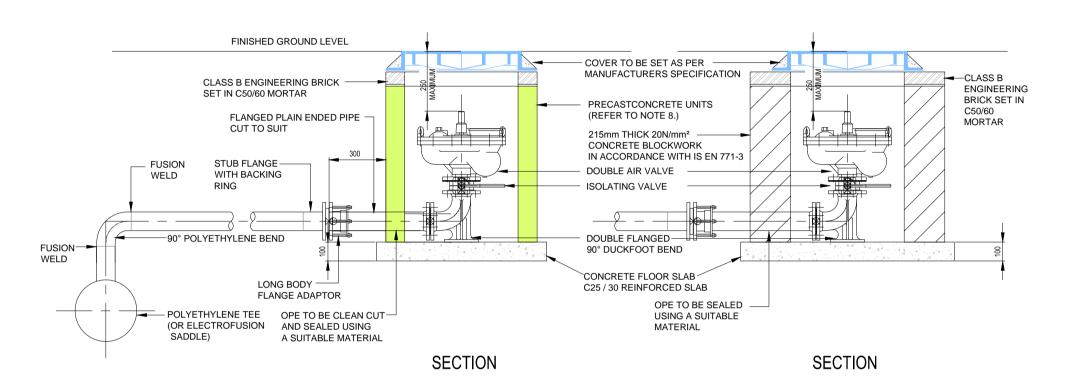
DUBLIN 14.

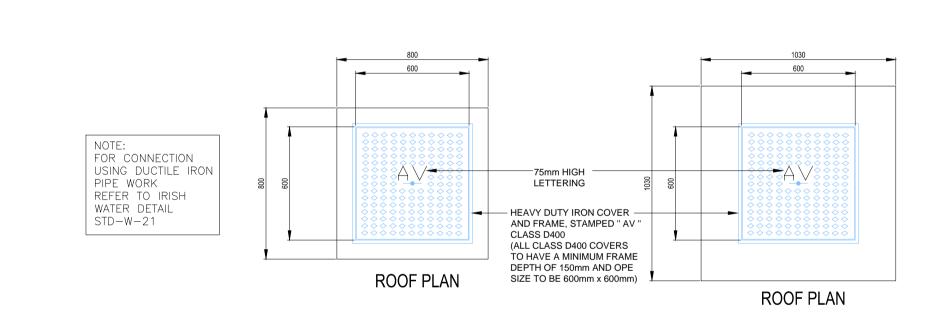
St. Catherine's House, Catherine Street WATERFORD

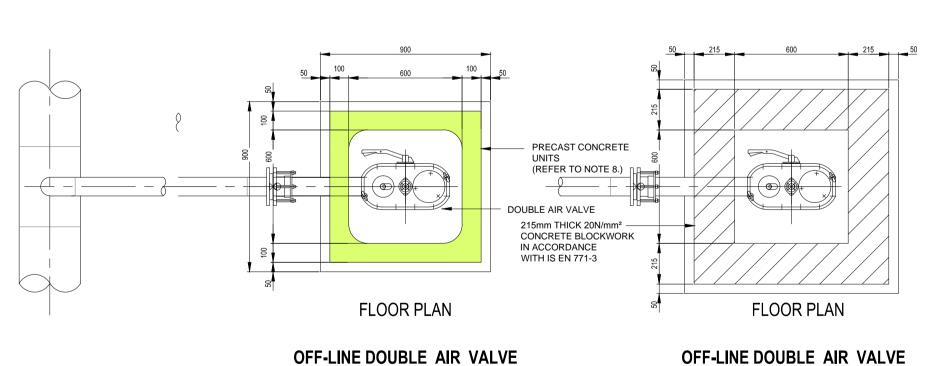
Tel: +353 51 876 855 Fax: +353 51 876 828 Email: info@waterford.morce.ie

KILDARE COUNTY COU	JNC	IL	DRAWING NAME SITE D	)FVFL OF	PMFNT DE	TAII S	
PROPOSED DEVELOPMENT OF RESIDENTIAL UNITS AT CRADDO ROAD, CRADOCKSTOWN DEMES NAAS, CO. KILDARE	SHEET 6 WATERMAIN DETAILS 3						
NUMBER DW	G NO	REVISION	SHEET SIZE	SCALE	DATE	DRAWN BY	ENGINE
SHB1-CRA-CS-MOR-DR-1	25	Р	A1	1:20	JAN '17	KD	ND



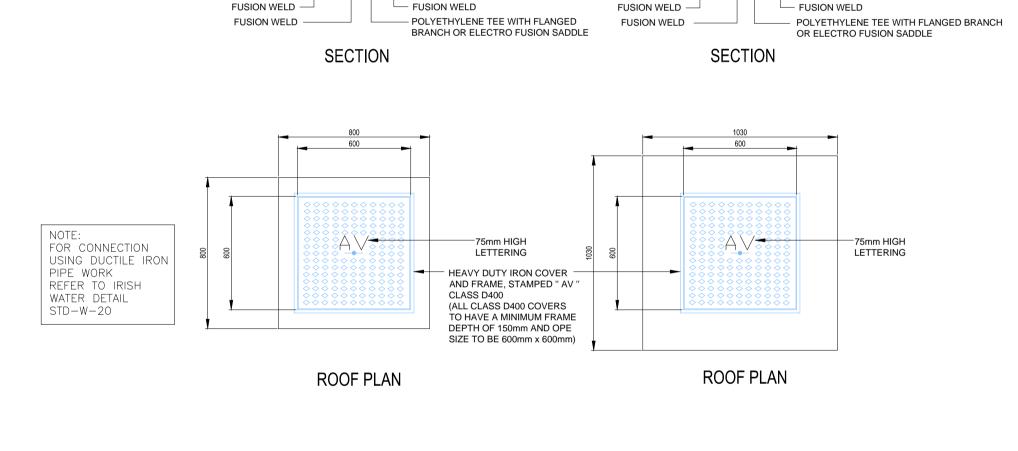






(BLOCKWORK CONSTRUCTION)

(PRECAST CONCRETE CONSTRUCTION)



CLASS B ENGINEERING BRICK

REFER TO STD - W- 13

FOR BEDDING AND

BACKFILLING DETAILS

SET IN C50/60 MORTAR

STAINLESS -STEEL METAL

FINISHED GROUND LEVEL

COVER TO BE SET AS PER

MANUFACTURERS

PRECAST CONCRETE

(REFER TO NOTE 8.)

DOUBLE AIR VALVE -

ISOLATING VALVE

CONCRETE BASE -

C25 / 30

D.I. RISER PIPE TO SUIT

DEPTH OF COVER TO MAIN &

TO ENABLE ROTATION OF

HANDLE (90° DOWNWARDS)

WITH ENOUGH CLEARANCE

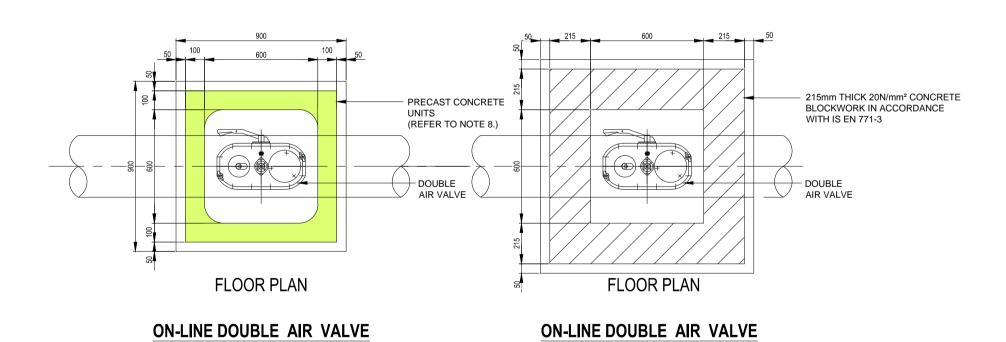
TO CONCRETE FLOOR SLAB.

**SPECIFICATION** 

PLINTH DETAIL

IN GRASS AREA

(PRECAST CONCRETE CONSTRUCTION)



(BLOCKWORK CONSTRUCTION)

COVER TO BE SET AS PER

215mm THICK 20N/mm² CONCRETE

BLOCKWORK IN ACCORDANCE

MANUFACTURERS

SPECIFICATION

WITH IS EN 771-3

DOUBLE AIR VALVE

- ISOLATING VALVE

CONCRETE BASE

C25 / 30

D.I. RISER PIPE TO SUIT

DEPTH OF COVER TO MAIN &

TO ENABLE ROTATION OF

HANDLE (90° DOWNWARDS)

WITH ENOUGH CLEARANCE

TO CONCRETE FLOOR SLAB.

Tel: +353 1 260 2655 Fax: +353 1 260 2660 Email: info@morce.ie