

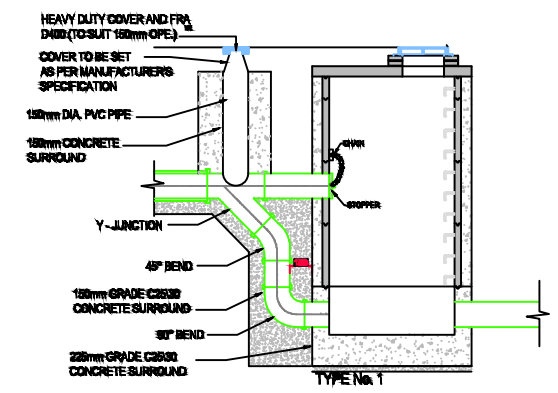
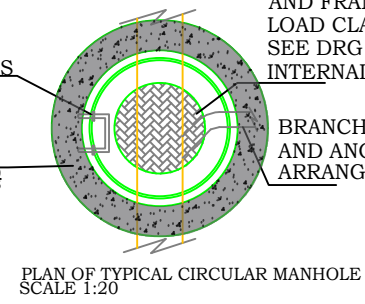
TYPICAL AQUACELL FLOW CONTROL DETAIL
SCALE 1:50

CAVANAGH SCORPION 150 DUCTILE IRON MANHOLE COVER AND FRAME OPENING 600Ø
LOAD CLASS D400
SEE DRG 1292 P1-03 FOR INTERNAL AND EXTERNAL SPEC

STEEL CORE PLASTIC ENCAPSULATED MANHOLE ACCESS STEPS BSEN 13101:2002

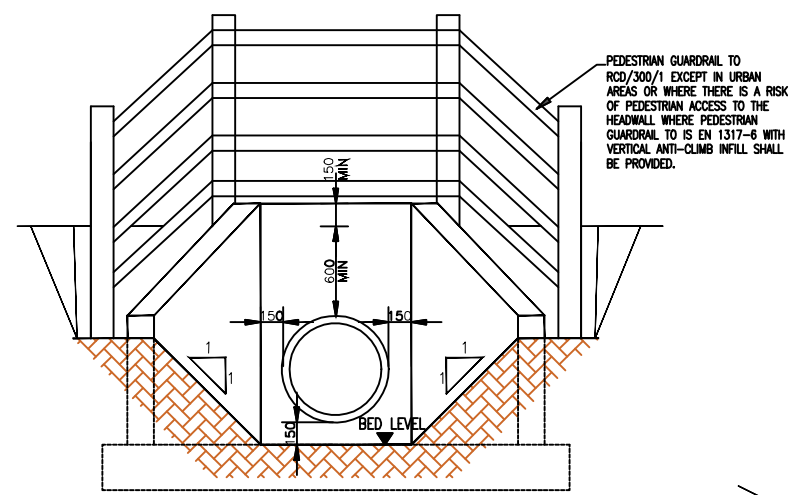
MANHOLES LOCATED IN SOFT LANDSCAPE GRASS AREAS TO BE SURROUNDED WITH 100mm DEEP C₂₅ CONCRETE 20mm AGGREGATE SIZE BEDDED IN CLAUSE 804 MATERIAL 200mm ALL AROUND

BRANCH CONNECTION SIZES AND ANGLES TO SUIT GENERAL ARRANGEMENT DRAWINGS



1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. RODDING EYE CHAMBER SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS 2011 AND BS 8834. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO THE APPROVAL OF IRISH WATER.
3. 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 APPROVAL FROM IRISH WATER.
4. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
5. MANHOLE DETAILS TO BE IN ACCORDANCE WITH STD-WW-08, 10 AND 11

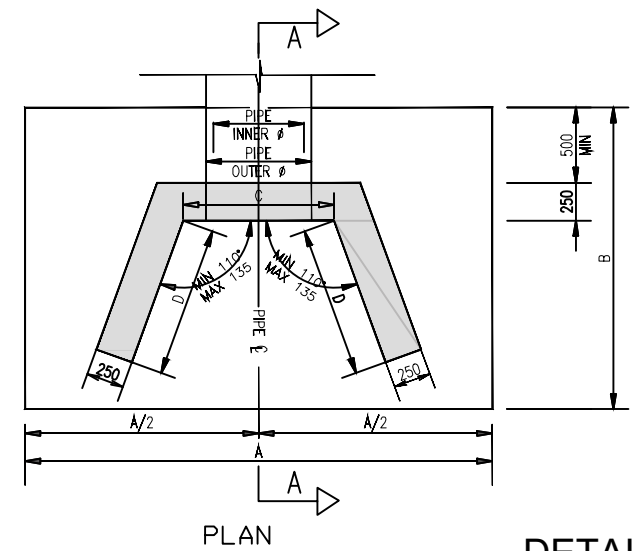
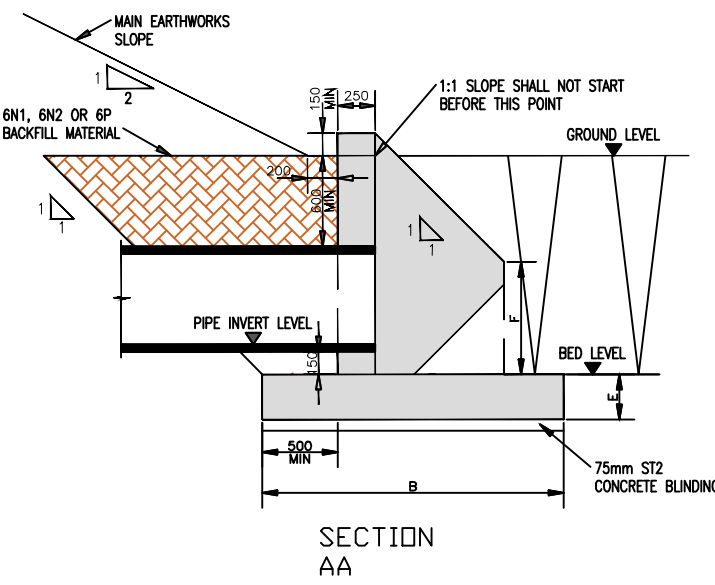
Typical Detail of dropped Manhole
Scale 1:50



SCHEDULE OF MINIMUM DIMENSIONS						
PIPE INNER Ø	A	B	C	D	E	F
<= 300	2000	2000	PIPE OUTER Ø + 300	1000	400	500
301-600	2500	2500	PIPE OUTER Ø + 300	1250	400	600
601-900	3200	3200	PIPE OUTER Ø + 300	1550	500	700
901-1200	3900	3900	PIPE OUTER Ø + 300	1850	500	800
1201-1500	4700	4700	PIPE OUTER Ø + 300	2150	500	900
1501-1800	5200	5200	PIPE OUTER Ø + 300	2350	500	1000

THE DIMENSIONS CONTAINED IN THE TABLE ABOVE ARE MINIMUMS ONLY AND THE DESIGNER SHALL CONFIRM DETAILS FOR SPECIFIC SITE CONDITIONS. THE DIMENSIONS CONTAINED IN THE TABLE ABOVE ARE BASED ON THE FOLLOWING CONSTRAINTS:

- ANGLE BETWEEN HEADWALL AND WINGWALL IS 110°;
- BACKFILL MATERIAL IS FREE DRAINING;
- THERE ARE NO LIVE LOAD EFFECTS ON THE HEADWALL;
- CHARACTERISTIC VALUE OF INTERNAL FRICTION (φ) OF THE BACKFILL MATERIAL = 37.5°;
- 600mm COVER TO THE PIPE AT THE REAR OF THE HEADWALL, WITH A 200mm WIDE FLAT AREA BEFORE THE COMMENCEMENT OF THE MAIN EARTHWORKS SLOPE;
- SLOPE OF FILL MEASURED FROM THE REAR FACE OF THE WINGWALLS DOWNWARDS AND FROM BED LEVEL UPWARDS ARE BOTH TO BE 1:1



DETAILS OF HEADWALL
SCALE 1:50

NOTES:

- All dimensions in millimeters. Do not scale from drawing. For any discrepancies found please consult with design office. This drawing should be read in conjunction with all contract drawings, documents and specifications.
1. This RCD is only to be used in association with a unique structural design. This design is to be carried out in accordance with the NRA requirements for the use of Eurocodes for the structures daor fo ngised
 2. Reinforced concrete shall be a minimum grade of C32/40. All structural concrete shall be specified in accordance with Series 1700 of the NRA MCDRW. XC4.
 3. All blinding concrete shall be ST2 in accordance with IS EN 206
 4. The minimum cover to reinforcement for durability shall be in accordance with NRA BD 57. Minimum exposure class to be

5. Any resulting void between the outside of the pipe and the OPE in the headwall shall be filled with non-compressible high strength grout.
6. All exposed concrete surfaces from 100mm below ground level to be class U4/F4 finish. All other concrete surfaces to be class U4/F4 finish. All other concrete surfaces to be class U4/F4 finish.
7. Headwall wingwalls to be sloped and shall maintain a minimum height of 150mm above adjacent backfill level.
8. Rendered concrete blockwork may be used as an alternative to in-situ or precast concrete for pipes up to 300mm diameter.
9. All headwalls shall be backfilled with class 6N1, 6N2 or 6P backfill material. Headwalls shall be founded on a minimum 75mm layer of ST2 blinding concrete. Details of the sub-base to be as per the design.
10. Rock armour and/or Gabion headwalls and wingwalls are prohibited.

Revision	Detail	Date	Rev By
A	FOR SHD PLANNING	14-02-22	PM

IMPORTANT TO READ
THIS DRAWING IS COPYRIGHT.

ALL CONSTRUCTION METHODS, MATERIALS, SERVICES AND INSTALLATIONS TO BE IN ACCORDANCE WITH ALL BUILDING REGULATIONS AND CODES OF PRACTICE AT TIME OF CONSTRUCTION.

ALL SUB-CONTRACTORS ARE ULTIMATELY RESPONSIBLE FOR ENSURING COMPLIANCE WITH REGULATIONS WITHIN THEIR OWN TRADE. ALL TRADES TO CHECK DIMENSIONS ON SITE PRIOR TO CONSTRUCTION OF FABRICATION. FIGURED DIMENSIONS TO BE TAKEN ONLY.

THE ENGINEER IS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.

IF IN DOUBT, ASK!



OLS Consulting Engineers & Project Management Ltd
No. 3 Saint Patrick's Place,
New Road,
Bandon,
Co. Cork
P72 FK52
Tel: (023) 8843990
Email: info@olsconsultingengineers.ie
Web: www.olsconsultingengineers.ie

Client: EON SHEEHAN

Job Title: PROPOSED RESIDENTIAL DEVELOPMENT IN BLARNEY

Drng Title: SURFACE WATER DRAINAGE DETAILS

Date	Drawn	Drng No	Rev
01-02-21	PM	21017-PL06	A
Scale	Shown	Checked	PM