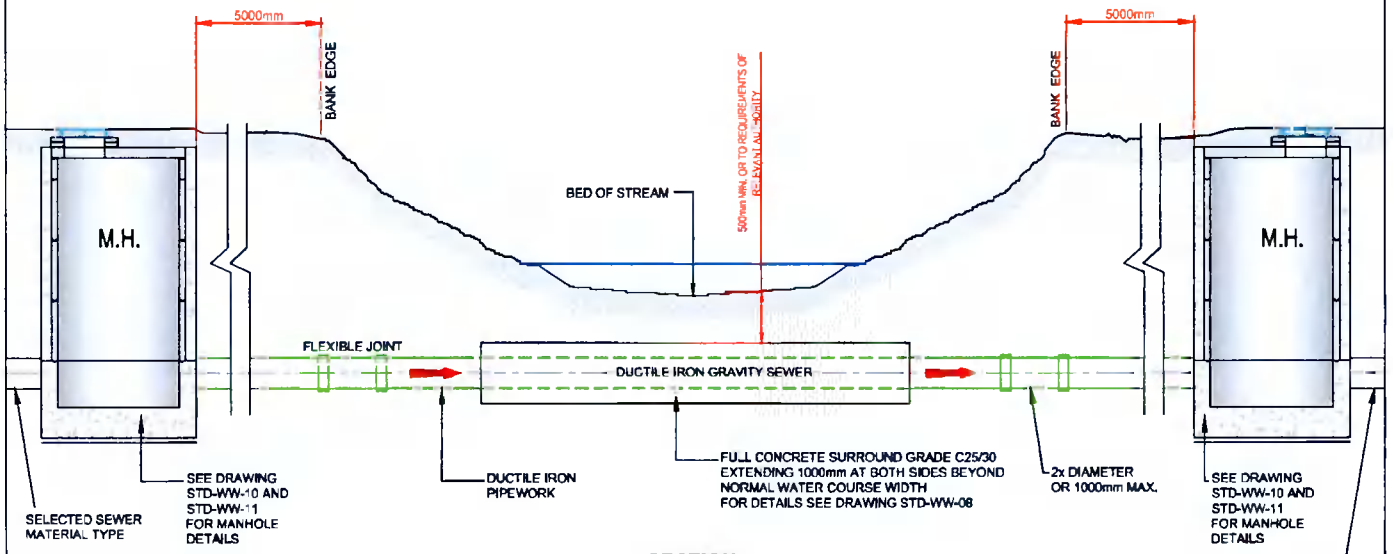
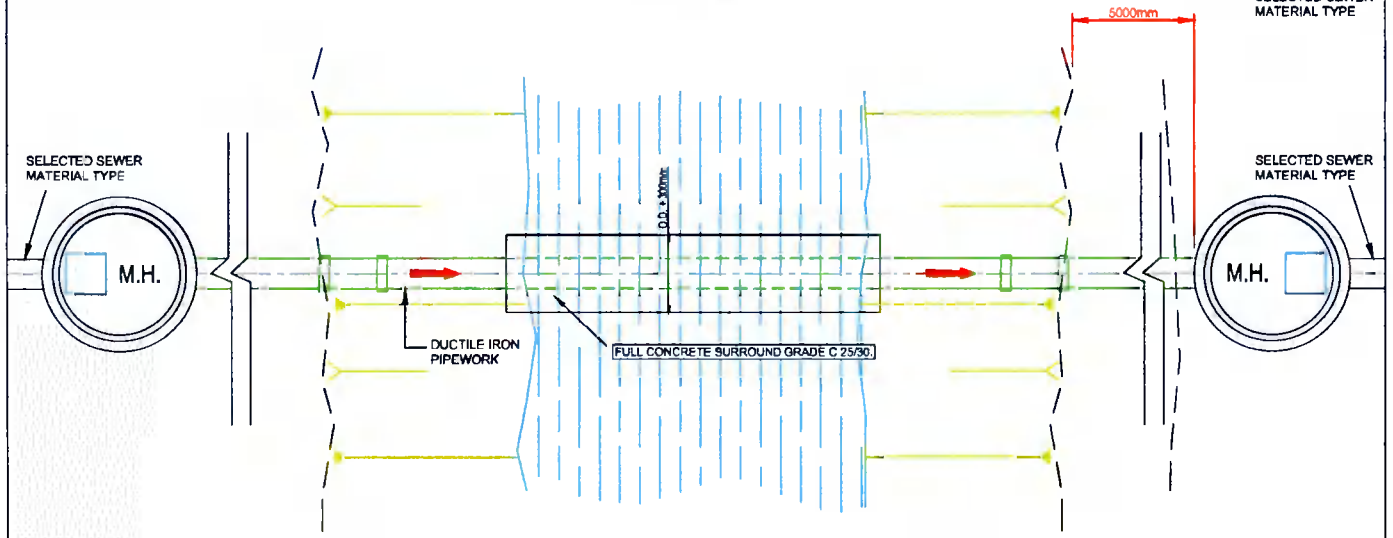
1. ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. O.D. REFERS TO OUTSIDE DIAMETER OF PIPES OR COLLARS.
3. TWO FLEXIBLE JOINTS SHALL BE PROVIDED WITHIN A DISTANCE OF 1000mm OR 2x DIAMETER OF PIPE (WHICHEVER IS THE GREATER) FROM BOTH ENDS OF CONCRETE SURROUND.
4. ALL DUCTILE IRON PIPE WORK AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 598.
5. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206 2013.
6. ALL MANHOLES TO BE LOCATED A MINIMUM OF 5000mm FROM THE BANK EDGE TO ALLOW FOR FUTURE ACCESS.
7. BACKFILL AND REINSTATEMENT OF THE RIVER BED AND BANK TO BE SUBJECT TO AGREEMENT WITH RELEVANT AUTHORITY & IRISH WATER.
8. PIPE BETWEEN MANHOLES AT DITCH / STREAM CROSSING TO BE DUCTILE IRON.



SECTION



PLAN

REFER TO INDEX SHEET FOR NOTES REGARDING DESIGN RESPONSIBILITY & RISK ASSESSMENT

No	Date	Drn	Chk	Description	App
2	07/20	RH	TOC	Pipe materials noted, notes added	MOD
1	11/17	JMC	TOC	Updated pipe depth dimension	MOD
0	09/15	JMC	TOC	Initial Issue	SL

UISCE EIREANN : IRISH WATER

STANDARD DETAILS - WASTEWATER

SCALE	DATE
NOT TO SCALE	SEPT. 2015

TITLE

TYPICAL DITCH / STREAM CROSSING FOR GRAVITY SEWER
(Sheet 1 of 2)

DRAWING No.	REV
STD-WW-21	2

	No. of People	Load Type	Rate	HYDRAULIC Loading		Rate	ORGANIC Loading	
Normal Daily Loading								
Daily Training	50	Players Training	30	l/p.day	1500 l/day	20	gBOD/p.day	1000 gBOD/day
Weekly Peak Loading								
	90	Players	30	l/p.day	2700 l/day	20	gBOD/p.day	1800 gBOD/day
Game Days	10	Officials	30	l/p.day	300 l/day	20	gBOD/p.day	200 gBOD/day
	150	Spectators	10	l/p.day	1500 l/day	10	gBOD/p.day	1500 gBOD/day
Other Potential Shock Loading								
Function Room, No Cooking Facilities (i.e. Drinks, Teas and Sandwiches)	150	Customers	10	l/p.day	1500 l/day	10	gBOD/p.day	1500 gBOD/day
	2	Staff	60	l/p.day	120 l/day	30	gBOD/p.day	60 gBOD/day
					7620 l/day			6060 gBOD/day

This calculation conservatively calculates the peak flow based on a full day, where training occurs, followed by 3 matches in the day. It assumes that 90 other players are playing the matches which are also attended by 150 Spectators and 10 officials. It also assumes that the function room is used by a further 150 customers and 2 staff members. It is also assumed that everybody uses the facilities once throughout the day.

1500	Litres/Day	Average demand
7620	Litres/Day	Peak demand
0.02	l/s	Average demand
0.09	l/s	Peak demand

There are no other drivers that would increase the water demand at the proposed development. Therefore, it is assumed that water out will be equal to water in for the average and peak water demands.

	Average mg/l	Max mg/l	litres/day	kg/day
BOD	496.4	2521.712	1500	3.78
COD	888	4511.04	1500	6.77
SS	293	1488.44	1500	2.23
TN	55	279.4	1500	0.42
TP	8.21	41.7068	1500	0.06

Irish Standard IS 391:2020 Fire Mains for Buildings States states that a minimum fireflow rate of 25l/s is required for a hydrant. Assuming 2 hydrants in use at 25l/s each.
Then the required flow rate for fire fighting is 50l/s.

inage Strate

X: 305190
Y: 229146

SOAKAWAY 2m(W) x 290m(L) x 0.7m(D)
Split Over 11 No. Soakaways - Catering to Remaining Impermeable Surfaces on Site (Yellow Hatching). Refer to Hydrocare Environmental Ltd. BRE 365 design report for details.

Proposed 100mm DIA Watermain

150mm DIA PIPE @ 1:100 FALL

100mm ø PERFORATED INFILTRATION PIPE.

INSPECTION CHAMBER

SILT TRAP

BRE TEST HOLE

GRASSCRETE

HYDROCARE ENVIRONMENTAL LTD

Tel. 0419842378 / 0877905155
E-mail: info@hydrocare.ie

SITE OVERVIEW

CLONDALKIN RUGBY CLUB
CLONDALKIN,
CO. DUBLIN

SCALE 1:1000 DATE: 17/02/2022

to Remaining Impermeable Surfaces on Site (Yellow Hatching) Lane Refer to Hydrocare Environmental Ltd. BRE 365 design report for details.

Other Soakaways and River

PIPE @ 1:100 FALL

100mm ø PERFORATED INFILTRATION PIPE.

Min 225mm DIA High Level Overflow to Other Soakaways and River

BRE TEST HOLE

SILT TRAP

FW MH 5
CL – 84.03
IL – 82.27

INSPECTION CHAMBER

100mm ø PERFORATED INFILTRATION PIPE.

FW MH 6
CL – 85.20
IL – 82.77

Min 225mm DIA High Level Overflow to Other Soakaways and River

150mm DIA PIPE @ 1:80 FALL

FW MH 7
CL – 85.33
IL – 83.10

100mm ø PERFORATED INFILTRATION PIPE.

+85.750

BRE TEST HOLE

SILT TRAP

Proposed 100mm DIA Watermain

SILT TRAP

Min 225mm DIA High Level Overflow to Other Soakaways and River

SILT TRAP

SOAKAWAY 3m(W) x 45m(L) x 1.3m(D)– Catering to Portion of Access Lane, Front Car Park and Main Club House (Red Hatching) Lane Refer to Hydrocare Environmental Ltd. BRE 365 design report for details.

100mm ø PERFORATED INFILTRATION PIPE.

+87.725

100mm ø PERFORATED INFILTRATION PIPE.

INSPECTION CHAMBER

SILT TRAP

SILT TRAP

BRE TEST HOLE

INSPECTION CHAMBER

SOAKAWAY 3m(W) x 10m(L) x 1.3m(D)– Catering to Portion of Access Lane, Front Car Park and Main Club House (Red Hatching) Lane Refer to Hydrocare

100mm ø PERFORATED INFILTRATION PIPE.

BUS PARKING

BUS PARKING

GRASSCRETE

BIN COLLECTION

EMERGENCY ONLY

16.4m

23.1m

15.5m

12.9m

20m

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PRE-CONNECTION OVERVIEW 1

CLONDALKIN RUGBY CLUB
CLONDALKIN,
CO. DUBLIN

SCALE 1:500 DATE: 17/02/2022

X: 305190
Y: 229146

FW MH 1
CL – 80.40
IL – 78.99

150mm DIA PIPE @ 1:100 FALL

FW MH 2
CL – 82.06
IL – 80.06

RIVER

FW MH 3
CL – 82.50
IL – 80.23

150mm DIA PIPE @ 1:100 FALL

FW MH 3
CL – 82.76
IL – 81.47

Min 225mm DIA High Level Overflow to River

69m(L) x 0.6m(W) x 0.6m(D) Filter Drain With a 225mm DIA Perforated Pipe. Acting as Conveyance Channel for High Level Overflow from Soakaways

0.6m

69m

INSPECTION CHAMBER

150mm DIA PIPE @ 1:100 FALL

Min 225mm DIA High Level Overflow to Other Soakaways and River

30m

35m

100mm ø PERFORATED INFILTRATION PIPE.

Min 225mm DIA High Level Overflow to Other Soakaways and River

SILT TRAP

BRE TEST HOLE

BOUNDARY

HYDROCARE ENVIRONMENTAL LTD

Tel. 0419842378 / 0877905155
E-mail: info@hydrocare.ie

PRE-CONNECTION OVERVIEW 2

CLONDALKIN RUGBY CLUB
CLONDALKIN,
CO. DUBLIN

SCALE 1:500 DATE: 17/02/2022