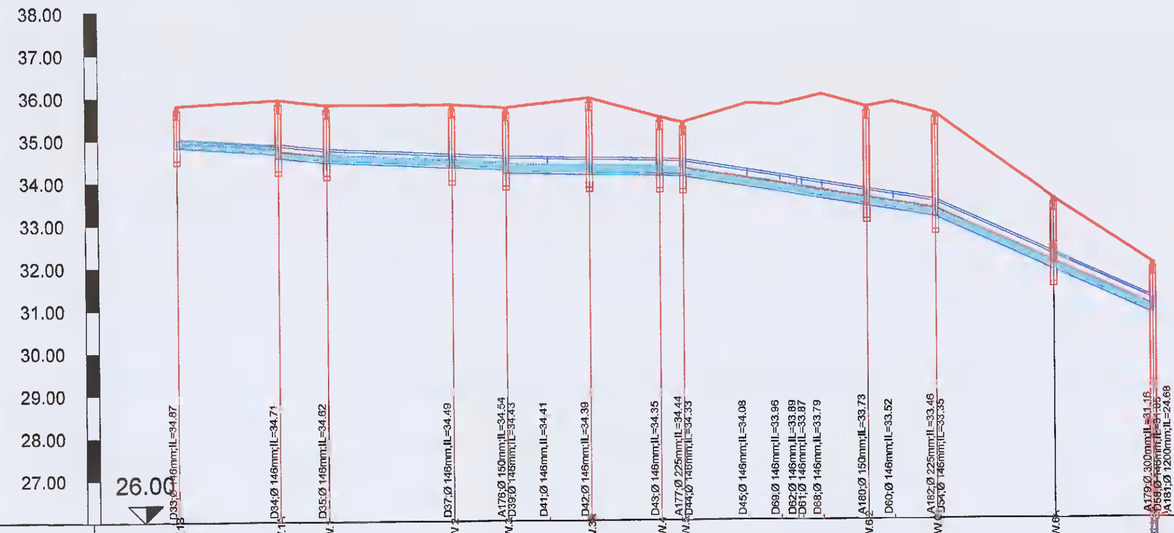
A175

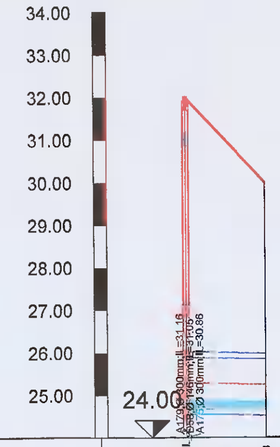
M:1:1000/100



Manhole name		MH S.W.F8		MH S.W.F7		MH S.W.F6		MH S.W.F5		MH S.W.F4		MH S.W.F3		MH S.W.F2		MH S.W.F1
Section name		S360		S361		S362		S363		S364	S365	S366		S367		S381	S368	S369
Ground Level [m.O.D.]		35.80		35.93		35.80		35.80		35.72	35.84	35.48	35.35			35.70	35.55	33.52	32.00
Invert Level [m.O.D.]	34.85	35.80	34.69	34.61	34.50	35.80	34.37	34.31	34.24	35.72	34.19	34.16	34.14			33.43	33.16	31.91	30.89
Section Length [m]		23.57		11.32		29.21		12.55		18.52	18.32	5.50		42.85		16.08	27.55	23.07	
Pipe Diameter & Material		Ø 150mm CONCRETE				Ø 225mm CONCRETE								Ø 300mm CONCRETE					
Length/Slope		23.58 m 1:147		1.32 m 1:100		1:215		41.76 m		1:453	35.84 m	1:250	1:60			58.93 m	1:22	50.67 m	
Chainage	0+000.00		0+023.57		0+034.89		0+064.11		0+076.66		0+096.18		0+112.50	0+118.00		0+160.85	0+176.93	0+204.48	0+227.55
Flow [l/s]		11		18		24		25		32	33	33		52		52	84	83	
Velocity [m/s]		0.90		1.22		0.94		0.96		0.77	0.78	0.93		1.90		1.90	3.14	3.14	
Filling percent [%]		65.16		40.27		61.37		62.57		57.25	58.30	50.57		40.97		40.94	40.26	40.25	
Full pipe flow [l/s]		15		53		35		36		53	53	65		146		146	243	243	
Full pipe velocity [m/s]		0.84		1.33		0.89		0.90		0.74	0.74	0.92		2.07		2.07	3.44	3.44	

A181

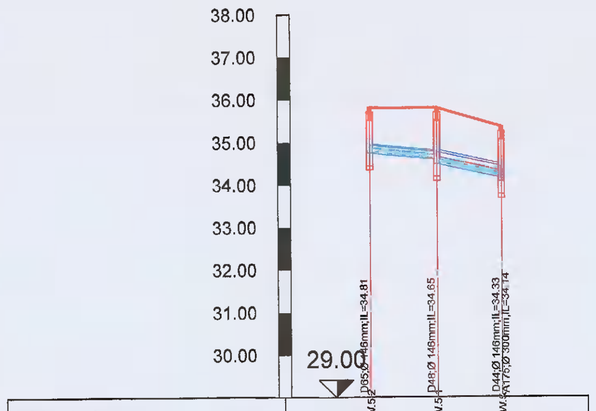
M:1:1000/100



Manhole name		OUTFALL		N48
Section name		S373		
Ground Level [m.O.D.]		32.00		30.00
Invert Level [m.O.D.]		24.68		24.05
Section Length [m]		18.54		
Pipe Diameter & Material		Ø 1200mm CONCRETE		
Length/Slope		18.54 m 1:800		
Chainage		0+000.00		0+518.54
Flow [l/s]		97		
Velocity [m/s]		0.85		
Filling percent [%]		15.67		
Full pipe flow [l/s]		1747		
Full pipe velocity [m/s]		1.54		

A177

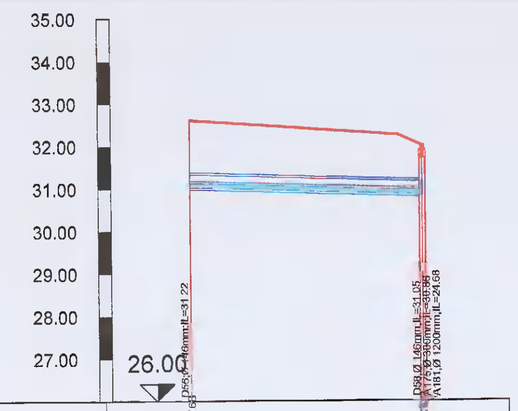
M:1:1000/100



Manhole name		MH S.W.S5		MH S.W.S4		MH S.W.S3
Section name			S371	S372		
Ground Level [m.O.D.]		35.80	35.80	35.35		
Invert Level [m.O.D.]	34.78	34.62	34.55	34.21		
Section Length [m]		15.78	15.11			
Pipe Diameter & Material		Ø 150mm CONCRETE	Ø 225mm CONCRETE			
Length/Slope		15.78 m 1:100	15.11 m 1:45			
Chainage	0+000.00		0+015.78	0+030.89		
Flow [l/s]		10	13			
Velocity [m/s]		1.06	1.49			
Filling percent [%]		54.89	27.02			
Full pipe flow [l/s]		18	80			
Full pipe velocity [m/s]		1.03	2.00			

A179

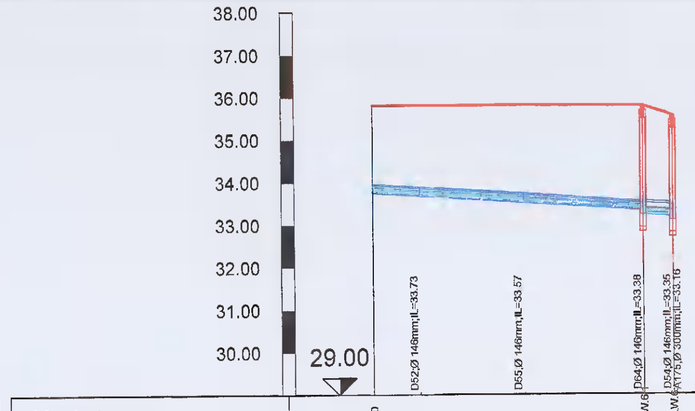
M:1:1000/100



Manhole name				
Section name		S376		
Ground Level [m.O.D.]		32.80		32.00
Invert Level [m.O.D.]	31.03		30.86	
Section Length [m]		54.15		
Pipe Diameter & Material		Ø 300mm CONCRETE		
Length/Slope		46.71 m 1:299	7.44 m 1:400	
Chainage	0+000.00			0+054.15
Flow [l/s]		14.14		
Velocity [m/s]		0.74 0.82		
Filling percent [%]		31.38 35.70		
Full pipe flow [l/s]		65.51		
Full pipe velocity [m/s]		0.82 0.72		

A182

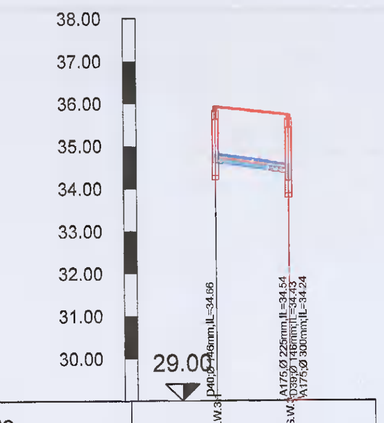
M:1:1000/100



Manhole name		D70		MH S.W.S1	MH S.W.S2
Section name		S382		S374	
Ground Level [m.O.D.]	35.80		35.78	35.55	
Invert Level [m.O.D.]	33.78		33.38 33.28	33.24	
Section Length [m]		63.23	7.00		
Pipe Diameter & Material		Ø 150mm CONCRETE	Ø 225mm CONCRETE		
Length/Slope		1:150	70.23 m		
Chainage	0+000.00		0+063.23	0+070.23	
Flow [l/s]		11		15	
Velocity [m/s]		0.69		0.98	
Filling percent [%]		65.14		39.81	
Full pipe flow [l/s]		15		43	
Full pipe velocity [m/s]		0.83		1.09	

A176

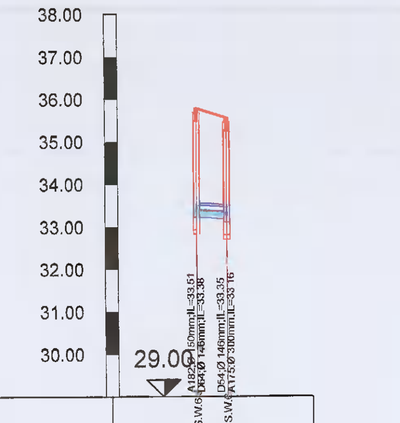
M:1:1000/100



Manhole name		MH S.W.S3		MH S.W.S2
Section name		S370		
Ground Level [m.O.D.]		35.91	35.72	
Invert Level [m.O.D.]		34.63	34.39	
Section Length [m]		17.13		
Pipe Diameter & Material		Ø 150mm CONCRETE		
Length/Slope		17.13 m 1:69		
Chainage	0+000.00		0+017.13	
Flow [l/s]		4		
Velocity [m/s]		0.98		
Filling percent [%]		30.12		
Full pipe flow [l/s]		22		
Full pipe velocity [m/s]		1.24		

A178

M:1:1000/100



Manhole name		MH S.W.S1	MH S.W.S2
Section name		S374	
Ground Level [m.O.D.]		35.78	35.55
Invert Level [m.O.D.]		33.38	33.24
Section Length [m]		7.00	
Pipe Diameter & Material		Ø 225mm CONCRETE	
Length/Slope		7.00 m 1:100	
Chainage	0+000.00		0+007.00
Flow [l/s]		15	
Velocity [m/s]		0.98	
Filling percent [%]		39.81	
Full pipe flow [l/s]		43	
Full pipe velocity [m/s]		1.09	

NOTES:

1. DO NOT SCALE THIS DRAWING - IF IN DOUBT ASK.
2. ALL WORK ON THE SITE TO BE IN ACCORDANCE WITH THE SAFETY, HEALTH AND WELFARE AT WORK (CONSTRUCTION) REGULATIONS.
3. ALL DIMENSIONS ARE AS SHOWN.
4. ALL LEVELS ARE SHOWN IN m O.D.
5. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH OTHER CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND FABRICATORS DRAWINGS.
6. ALL CONSTRUCTION LEVELS AND CONTOURS ON THE INCLUDED DRAWINGS RELATE TO THE MALIN HEAD ORDNANCE DATUM
7. DRAIN FROM CHEMICAL DELIVERY AREA TO BE ACID RESISTANT (PTFE OR EQUIVALENT). ACID RESISTANT SHUT-OFF VALVE TO BE NORMALLY-OPEN TO ALLOW UNCONTAMINATED SURFACE-WATER DRAIN TO SITE INFILTRATION POND. SHUT-OFF VALVE TO BE CLOSED DURING CHEMICAL DELIVERY. DRAIN SECTION TO BE OVER-SIZED TO PROVIDE EMERGENCY STORAGE FOR DELIVERY TANKER SPILLAGES.
8. CHEMICAL DELIVERY AREA - SEE DETAIL IN DRAWING 11118-RHL-LP2-XX-DR-PL-0015
9. MODIFICATION TO EXISTING SURFACE-WATER DRAINAGE SYSTEM AS NECESSARY WHERE CLASH OCCURS WITH PROPOSED DEVELOPMENT
10. ALL SURFACE WATER SECTIONS CHECKED FOR PERCENTAGE FILLING - ALL LESS THAN 90% FULL

LEGEND:

- EXISTING STORM SEWER
- EXISTING STORM SEWER TO BE REMOVED
- PROPOSED STORM SEWER
- EXISTING MANHOLE
- PROPOSED MANHOLE
- GULLY
- SITE BOUNDARY
- OWNERSHIP BOUNDARY
- PROPOSED SEWER
- PROPOSED WATER MAIN
- RIGHT OF WAY
- PROPOSED LIME DOSING LINE
- PROPOSED ACID DOSING LINE (OLD WTP)
- PROPOSED ACID DOSING LINE (NEW WTP)

REV	DATE	DESCRIPTION	D	C	A
02	10/12/21	Updated following comments	EV	MG	MJ
01	28/09/21	Updated following comments	EV	MG	JB

Planning Drawings

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UPGRADE

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DUBLIN - GALWAY - CASTLEBAR - CORK

TITLE

PROPOSED AND EXISTING SURFACE WATER DRAINAGE PROFILES

SCALE	DRAWN	CHECKED	APPROVED
1:100 1:1000	EV	MG	JB
	DATE 26/05/2021	DATE 26/05/2021	DATE 26/05/2021

DRAWING No.	STATUS	REVISION
11118-RHL-LP2-XX-DR-PL-0019A	S2	02

A3 A4