APPENDIX A

DRAWINGS

FOUL PIPE SCHEDULE

PIPE REFERENCE	SIZE Ø (mm)	SLOPE	LENGTH (m)
FP01	150	1:136	10.562
FP02	150	1:136	43.664
FP03	150	1:136	43.663
FP04	150	1:136	25.299
FP04_2	150	1:136	13.737
FP04_3	150	1:136	34.333
FP04_4	150	1:136	28.883
FP04	225	1:233	20.700
FP05	150	1:40.8	20.792
FP06_1	150	1:24.7	15.262
FP06_2	150	1:136	29.435
FP06_3	150	1:136	29.435
FP06	225	1:233	10.381
FP07	225	1:233	22.499
FP08	225	1:43.3	22.553

STORM PIPE SCHEDULE

PIPE REFERENCE	SIZE Ø (mm)	SLOPE	LENGTH (m)
SP01	225	1:66.2	49.238
SP02	225	1:59.2	53.720
SP03	225	1:50.1	31.774
SP04	225	1:91	30.948
SP05	300	1:40.9	9.213
SP06	300	1:39.8	27.171
SP07	300	1:101.7	31.010
SP08	300	1:958	12.319
SP09	450	1:1595	8.812
SP10	300	1:958	34.509
SP11	300	1:958	8.803
SP12_1	225	1:28.1	30.912
SP12_2	225	1:665	23.028
SP12	300	1:958	5.368

Wastewater Infrastructure Standard Details

Connections and Developer Services

Design and Construction Requirements for Self Lay Drainage Work
July 2020 (Revision 4)

NOTE: CONTRACTOR IS TO REFER TO REVISION 4 OF THE IRISH WATER STANDARD DETAILS DATED JULY 2020 FOR WASTEWATER INFRASTRUCTURE DETAILS. THIS BOOKLET HAS BEEN INCLUDED IN PART OF THE CIVIL/STRUCTURAL PACKAGE.

LEGEND

- PROPOSED STORM MANHOLE shown thus ●
- PROPOSED STORM WATER NETWORK shown thus ———
- PROPOSED FOUL MANHOLE shown thus ●
- EXISTING FOUL MANHOLE shown thus ●
- PROPOSED FOUL NETWORK shown thus ———
- PROPOSED SURFACE WATER CONNECTIONS shown thus ———
- PROPOSED ROAD GULLIES shown thus RG
- MANHOLE SURROUNDED IN LEAN MIX shown thus ☐
- EXISTING FOUL 225 uPVC NETWORK shown thus ———

Site Area:-
21,000 m², 5.189 Acres, 2.1 Hectares
ITM Co-Ordinates of site:-
569700, 833700

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OS Sheet No.1071-A

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Layout Ref.:

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client
NOVOT HOLDINGS LIMITED

project
PROPOSED RESIDENTIAL DEVELOPMENT AT CAIRNS ROAD, CO. SLIGO

stage
PLANNING

title
FOUL & STORM SITE LAYOUT PLAN

scale
1:500 @ A1

surveyed	drawn	checked	date
JOD	AP	MF	March 2022

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drawing no.	revision
6665-JOD-XX-ZZ-DR-C-700-001	P.01

NOTES:-

ALL WORKS TO BE CARRIED OUT TO IRISH WATER CODE OF PRACTICE DOCUMENT CDS-5030-03

FOUL WASTE WATER LAYOUT TO BE INSTALLED IN ACCORDANCE WITH IRISH WATER STANDARD DETAIL STD-WW-02 REGARDING GENERAL LAYOUT.

ALL FOUL WASTEWATER DRAINAGE PIPE WORK, INCLUDING SERVICE CONNECTIONS TO COMPLY WITH SECTION 3.6 OF I.W. CODE OF PRACTICE REGARDING PIPE WORK GRADIENTS.

ALL FOUL WASTEWATER PIPE WORK MATERIAL TO COMPLY WITH SECTION 3.13 OF THE IRISH WATER CODE OF PRACTICE.

ALL MANHOLES TO BE CONSTRUCTED IN ACCORDANCE WITH I.W. STD-WW-10 and I.W. STD-WW-12.

WHERE FOUL AND SURFACE WATER MANHOLES AREA ADJACENT THEIR POSITIONS SHOULD BE STAGGERED TO ALLOW FOR CROSSING OVER OF SEWERS AS PER SECTION 3.5.13 OF I.W. CODE OF PRACTICE.
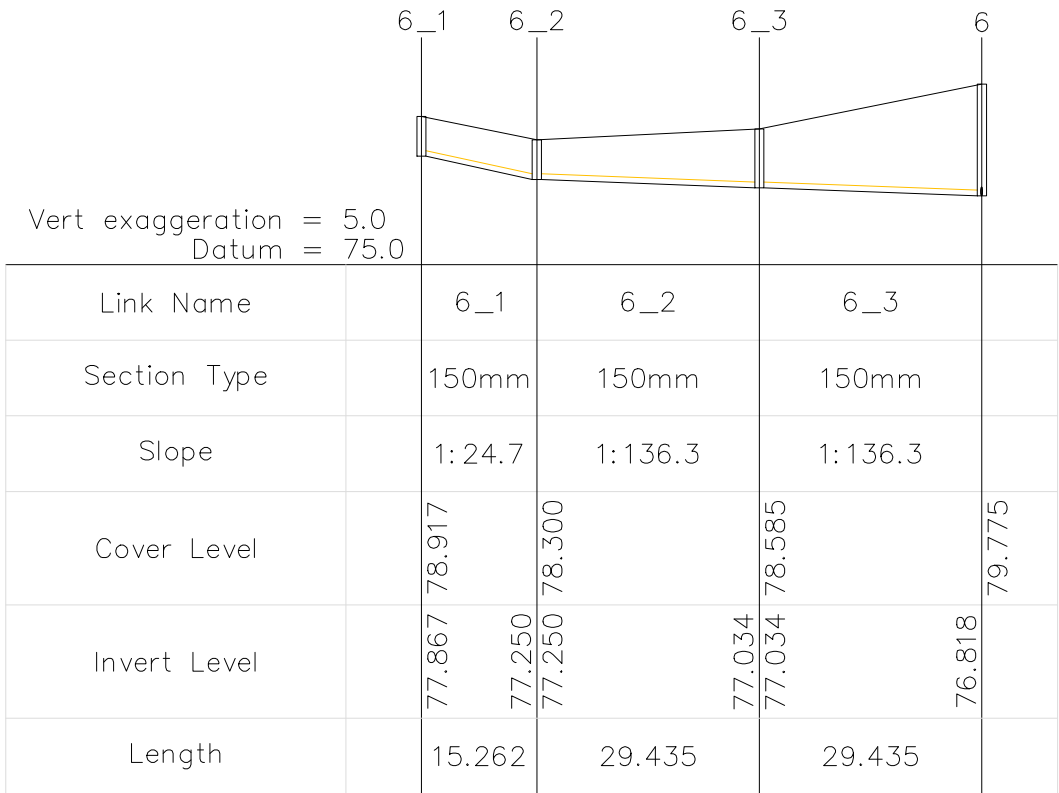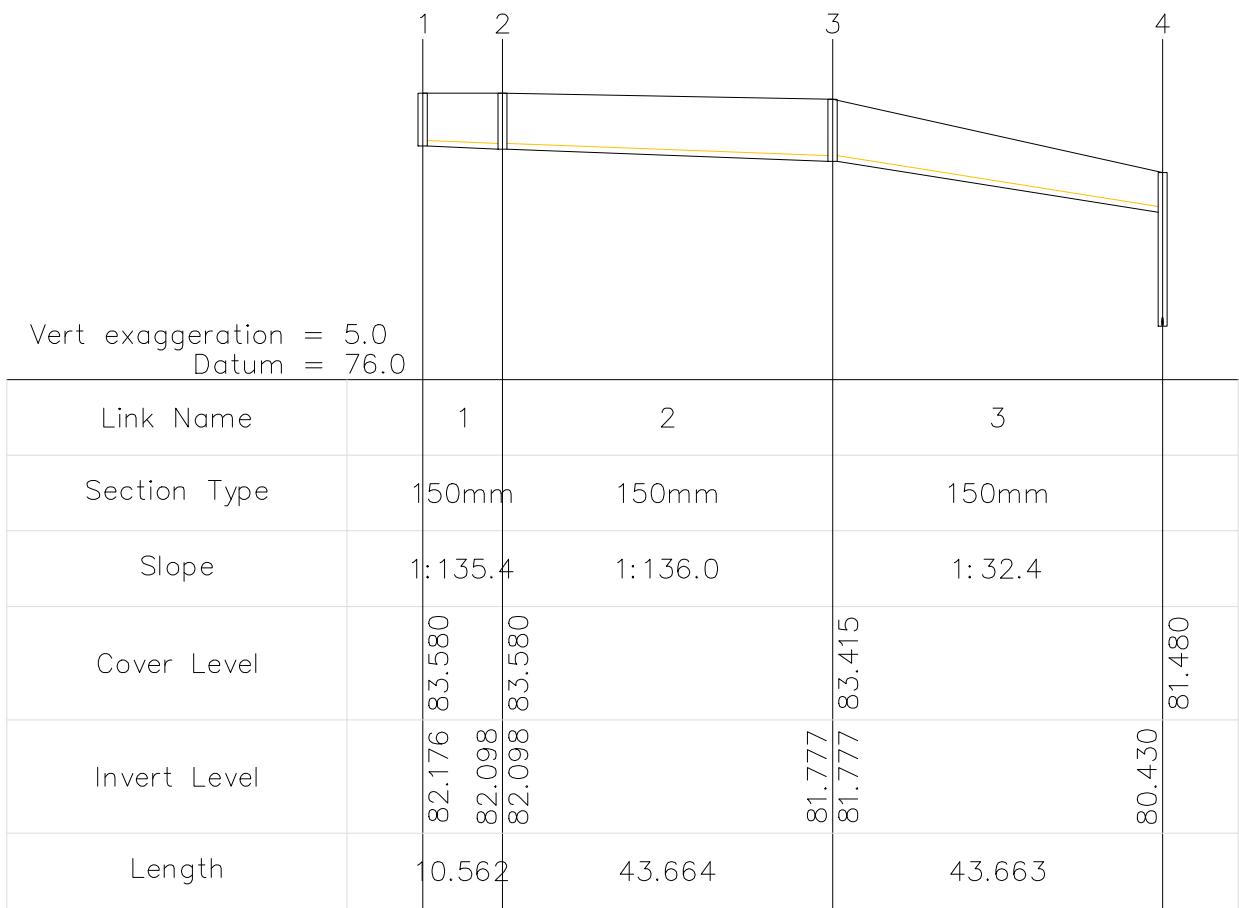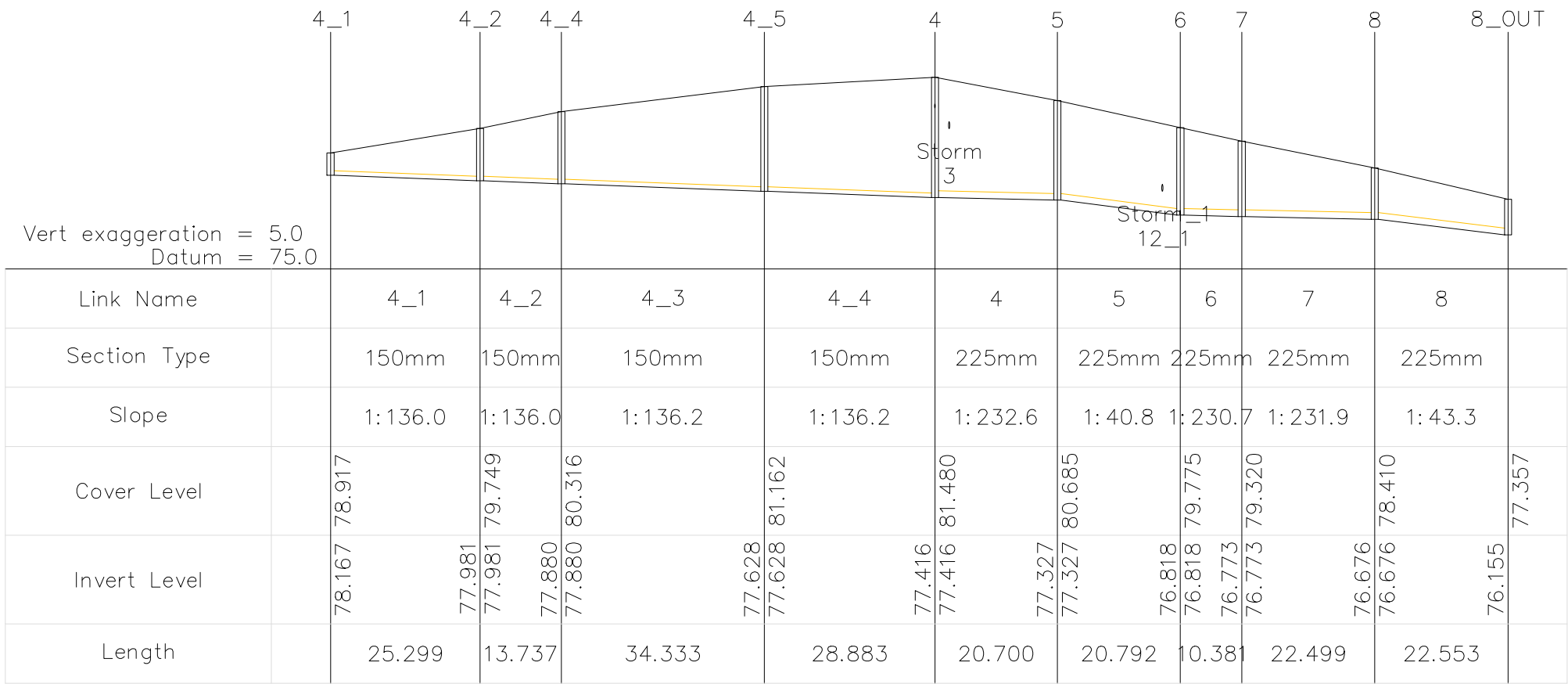
WHERE 0.3m SEPERATION DISTANCE CANNOT BE ACHIEVED BETWEEN FOUL AND STORM PIPES, THE PIPES SHALL BE SURROUNDED IN LEAN MIX CONCRETE.

ALL WASTEWATER PIPE WORK SHALL BE INSTALLED IN ACCORDANCE WITH I.W. STD-WW-05, STD-WW-06, AND STD-WW-06A REGARDING SEPARATION DISTANCES.WHERE SEPARATION DISTANCES CANNOT BE ACHIEVED, PIPES SHALL BE SURROUND IN LEAN MIX CONCRETE.

INSPECTION CHAMBERS TO BE INSTALLED ON ALL CONNECTIONS FROM FOUL AND SURFACE WATER SEWER WITHIN INDIVIDUAL PROPERTIES IN ACCORDANCE WITH I.W. STD-WW-03-1 IN COMPLIANCE WITH IRISH WATER CODE OF PRACTICE AND STANDARD DETAILS

FOUL SEWER DROP MANHOLES TO BE INSTALLED TO IW WASTEWATER CODE OF PRACTICE STANDARD DETAIL STD-WW-12.

HDPE TWINWALL PIPES TO BE USED FOR ALL STORM AND FOUL SEWER PIPES UNLESS OTHERWISE SPECIFIED.

PIPES ARE TO BE BBA (BRITISH BOARD OF AGRÉMENT) OR SIMILAR APPROVED AND HAPAS (HIGHWAYS AGENCY PRODUCT APPROVAL SCHEME) OR SIMILAR CERTIFIED.

WHERE 0.9m COVER TO THE ROADWAY CANNOT BE ACHIEVED, PIPES SHALL BE SURROUNDED IN LEAN MIX CONCRETE.

FOUL & STORM SITE LAYOUT PLAN
SCALE 1:500 @ A1

Vert exaggeration = 5.0
Datum = 75.0

Link Name		4_1	4_2	4_3	4_4	4	5	6	7	8	
Section Type		150mm	150mm	150mm	150mm	225mm	225mm	225mm	225mm	225mm	
Slope		1:136.0	1:136.0	1:136.2	1:136.2	1:232.6	1:40.8	1:230.7	1:231.9	1:43.3	
Cover Level	78.917		79.749	80.316		81.162	81.480	80.685	79.775	79.320	78.410	77.357
Invert Level	78.167		77.981	77.880		77.628	77.416	77.327	76.818	76.773	76.676	76.155
Length		25.299	13.737	34.333	28.883	20.700	20.792	10.381	22.499	22.553	

Storm 3
Storm_1
12_1

Vert exaggeration = 5.0
Datum = 76.0

Link Name	1	2	3	
Section Type	150mm	150mm	150mm	
Slope	1:135.4	1:136.0	1:32.4	
Cover Level	83.580	83.580	83.415	81.480
Invert Level	82.176	82.098	81.777	80.430
Length	10.562	43.664	43.663	

Vert exaggeration = 5.0
Datum = 75.0

Link Name	6_1	6_2	6_3	
Section Type	150mm	150mm	150mm	
Slope	1:24.7	1:136.3	1:136.3	
Cover Level	78.917	78.300	78.585	79.775
Invert Level	77.867	77.250	77.034	76.818
Length	15.262	29.435	29.435	

Wastewater Infrastructure Standard Details
Connections and Developer Services

NOTE: CONTRACTOR IS TO REFER TO REVISION 4 OF THE IRISH WATER STANDARD DETAILS DATED JULY 2020 FOR WASTEWATER INFRASTRUCTURE DETAILS. .

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client
NOVOT HOLDINGS LIMITED

project
PROPOSED RESIDENTIAL DEVELOPMENT AT CAIRNS HILL, CO. SLIGO

stage
PLANNING

title
PROPOSED FOUL SEWER SECTIONS

scale
HORIZ: 1:1000, VERT: 1:200 @ A3

surveyed	drawn AP	checked MF	date March '22

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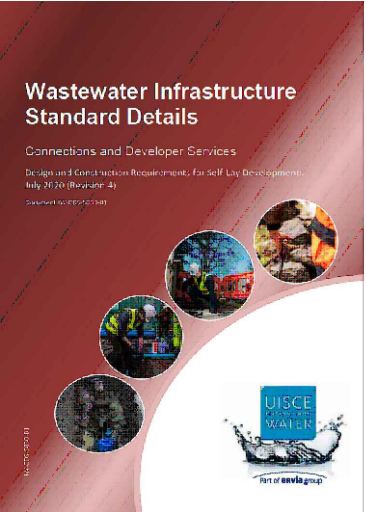FAX. +353 (0)71 916 1080
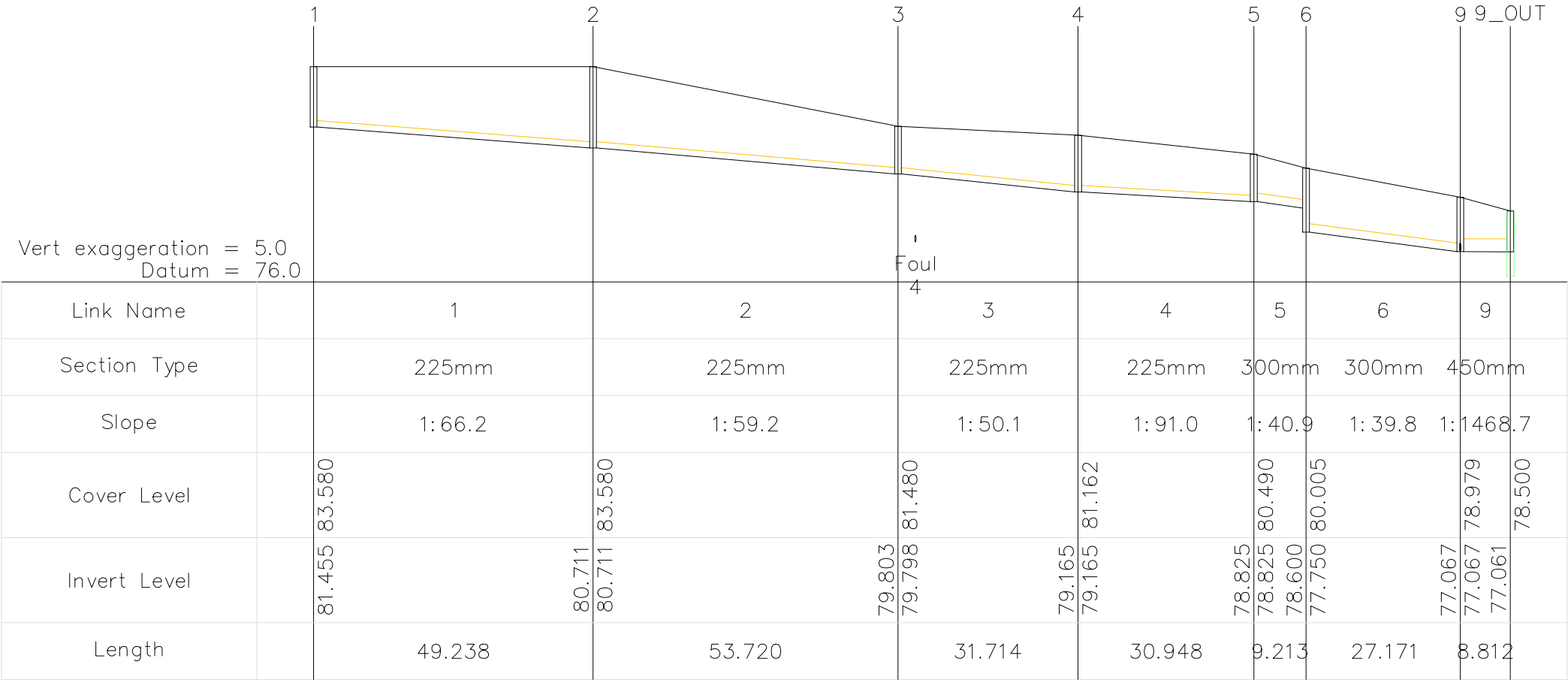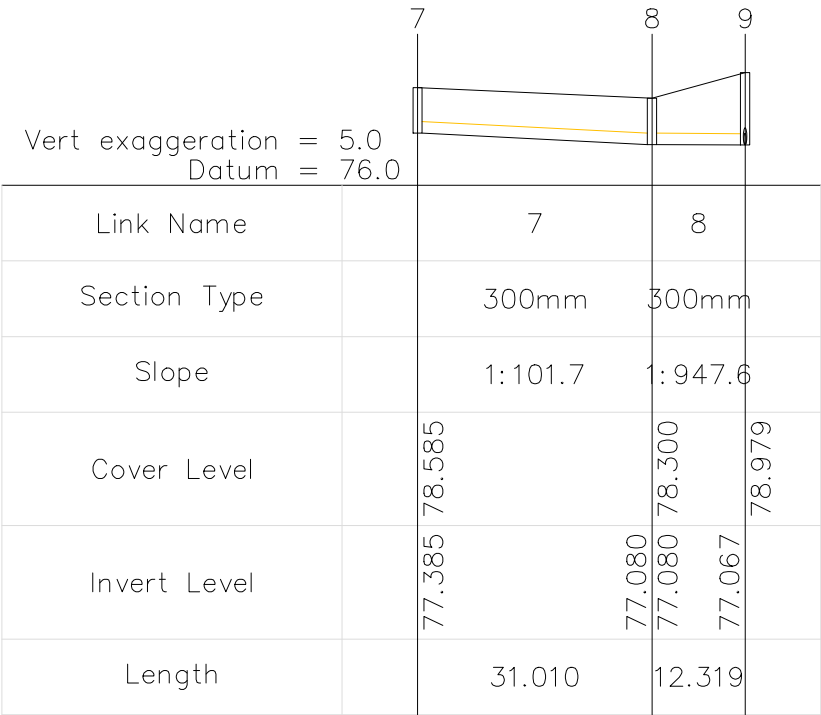Email: info@jodireland.com

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6665-JOD-XX-ZZ-DR-C-002	P.01

Vert exaggeration = 5.0
Datum = 76.0

Link Name		1	2	3	4	5	6	9
Section Type		225mm	225mm	225mm	225mm	300mm	300mm	450mm
Slope		1:66.2	1:59.2	1:50.1	1:91.0	1:40.9	1:39.8	1:1468.7
Cover Level		83.580	83.580	81.480	81.162	80.490	80.005	78.979 / 78.500
Invert Level		81.455	80.711 / 80.711	79.803 / 79.798	79.165 / 79.165	78.825 / 78.825	78.600 / 77.750	77.067 / 77.067 / 77.061
Length		49.238	53.720	31.714	30.948	9.213	27.171	8.812

Foul

Vert exaggeration = 5.0
Datum = 76.0

Link Name		7	8
Section Type		300mm	300mm
Slope		1:101.7	1:947.6
Cover Level		78.585	78.300 / 78.979
Invert Level		77.385	77.080 / 77.080 / 77.067
Length		31.010	12.319

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project
PROPOSED RESIDENTIAL DEVELOPMENT AT CAIRNS HILL, CO. SLIGO

stage
PLANNING
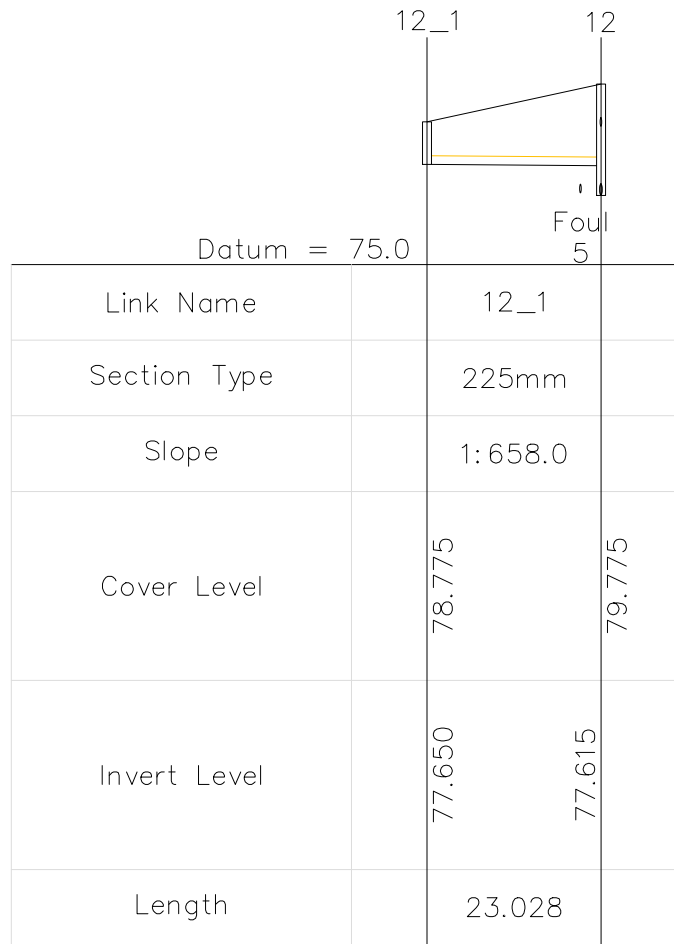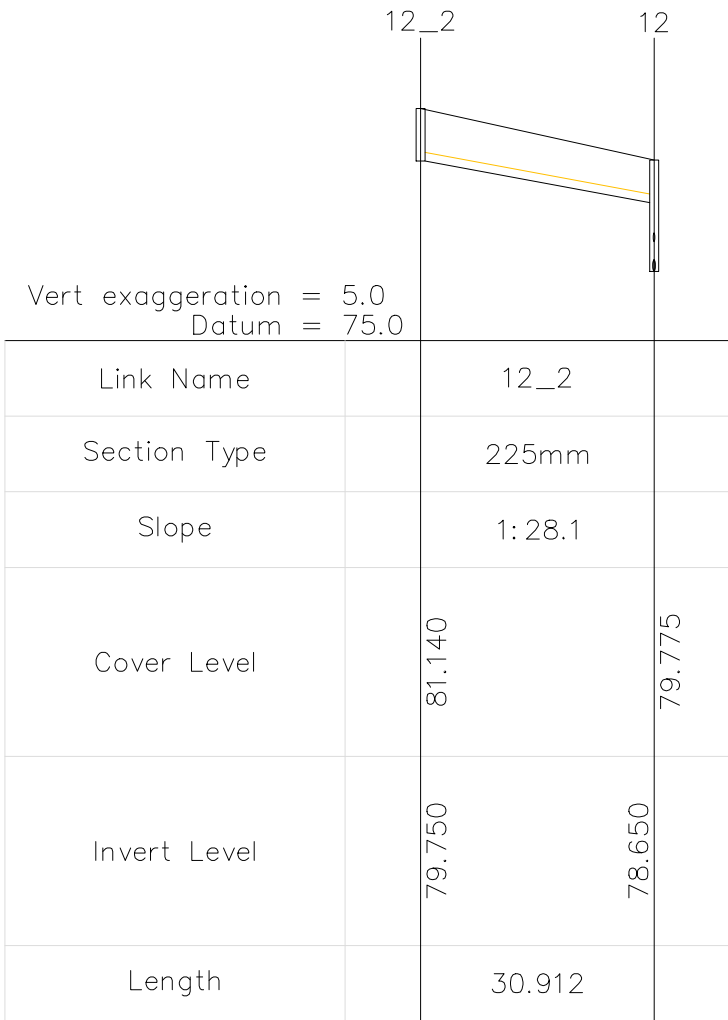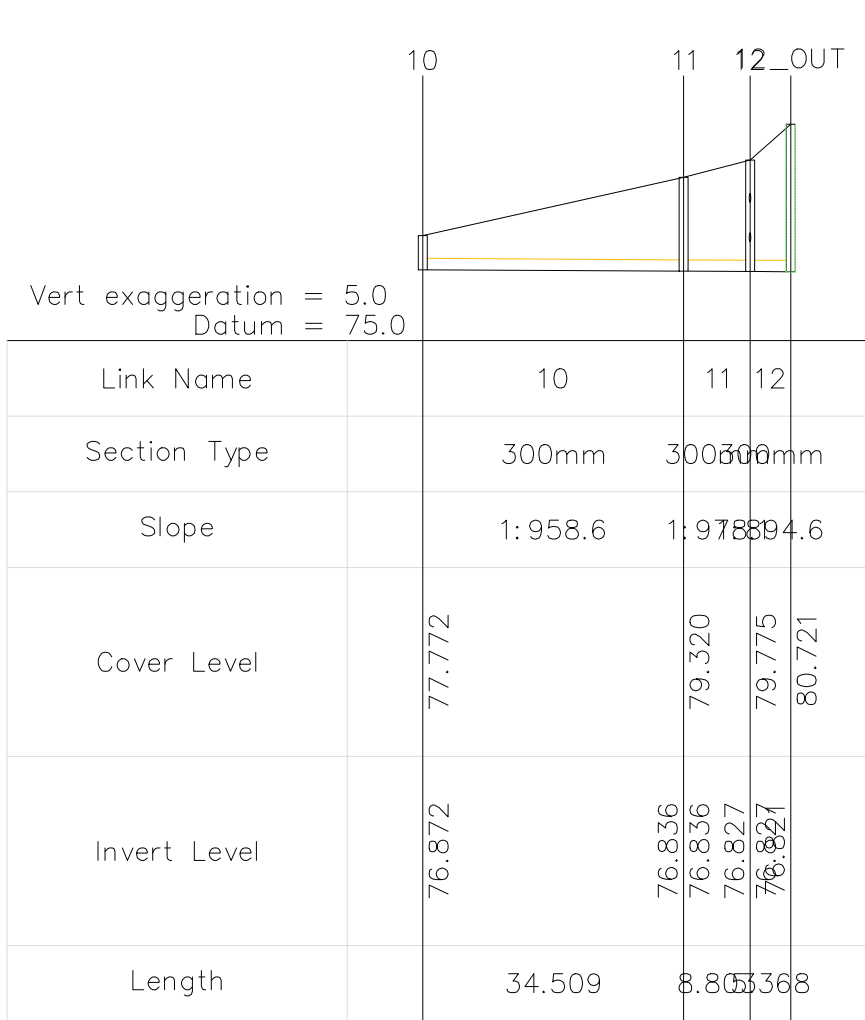
title
PROPOSED STORM SEWER SECTIONS (SHEET 1 OF 2)

scale
HORIZ: 1:1000, VERT: 1:200 @ A3

surveyed	drawn	checked	date
	AP	MF	March '22

drawing no.	revision
6665-JOD-XX-ZZ-DR-C-003	P.01

Wastewater Infrastructure Standard Details

Connections and Developer Services

NOTE: CONTRACTOR IS TO REFER TO REVISION 4 OF THE IRISH WATER STANDARD DETAILS DATED JULY 2020 FOR WASTEWATER INFRASTRUCTURE DETAILS.

Vert exaggeration = 5.0
Datum = 75.0

Link Name		10	11	12	
Section Type		300mm	300mm	300mm	
Slope		1:958.6	1:978	1:894.6	
Cover Level	77.772		79.320	79.775	80.721
Invert Level	76.872		76.836	76.836 76.827	76.821
Length		34.509	8.805	3.368	

Vert exaggeration = 5.0
Datum = 75.0

Link Name	12_2	
Section Type	225mm	
Slope	1:28.1	
Cover Level	81.140	79.775
Invert Level	79.750	78.650
Length	30.912	

Datum = 75.0

Foul 5

Link Name	12_1	
Section Type	225mm	
Slope	1:658.0	
Cover Level	78.775	79.775
Invert Level	77.650	77.615
Length	23.028	

rev.	modifications	by	chkd	date
P.01	Issued for Planning	AP	MF	04.03.22

Layout Ref.:

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client
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project
PROPOSED RESIDENTIAL DEVELOPMENT AT CAIRNS HILL, CO. SLIGO

stage
PLANNING

title
PROPOSED STORM SEWER SECTIONS (SHEET 2 OF 2)

scale
HORIZ: 1:1000, VERT: 1:200 @ A3

surveyed	drawn	checked	date
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Water Infrastructure
Standard Details

Connections and Developer Services:
Construction Requirements For Self-Lay Developments
July 2020 (Revision 4)

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IRISH WATER
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NOTE: CONTRACTOR IS TO REFER TO REVISION 4 OF THE IRISH WATER STANDARD DETAILS DATED JULY 2020 FOR WATER INFRASTRUCTURE DETAILS. THIS BOOKLET HAS BEEN INCLUDED AS PART OF THE CIVIL/STRUCTURAL PACKAGE.

N

LEGEND

WATERMAIN SUPPLY Ø 110mm OUTSIDE DIAMETER PE100 JDRI, PIPE MATERIAL SHALL BE IN COMPLIANCE WITH IRISH WATER SECTION 3.9 OF THE CODE OF PRACTICE.

PROPOSED WATER SUPPLY CONNECTION WITH BOUNDARY BOX TO I.W. STD-W-03 shown thus

FIRE HYDRANT TO I.W. STD-W-18/19 shown thus (6 No. Hyd)

DOUBLE AIR VALVE TO I.W. STD-W-22-2 (1 No. DAV's)

SLUICE VALVE TO I.W. STD-W-15-2 (11 No. SV's)

SCOUR VALVE TO I.W. STD-W-30A-2 (2 No. SC.v's)

BULK FLOW METER
To Incl. Kiosk TO STD-W-36 AND METER CHAMBER TO STD-W-26

EXISTING 300mm DI WATERMAIN

Site Area:-
21,000 m², 5.189 Acres, 2.1 Hectares
ITM Co-Ordinates of site:-
569700, 833700

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OS Sheet No.1071-A

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PROPOSED RESIDENTIAL DEVELOPMENT AT CAIRNS ROAD, CO. SLIGO

stage
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title
PROPOSED WATERMAIN LAYOUT PLAN

scale
1:500 @ A1

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| drawing no. | revision |
| 6665-JOD-XX-ZZ-DR-C-700-005 | P.01 |

PROPOSED WATERMAIN LAYOUT PLAN
SCALE 1:500 @ A1

HILLTOP PARK ESTATE

THE HAWTHORNS

THE HAWTHORNS

EXISTING ARDCAIRNS ESTATE

EXISTING TURNING AREA

Watermain Loop to IW-STD-W-39
Washout Hydrant to IW-STD-W-30A
Watermain Loop to IW-STD-W-18
Fire Hydrant to IW-STD-W-18
Sluice Valves to IW STD-W-15-2
Thrust blocks to IW STD-W-28-1
Washout Hydrant to IW-STD-W-30A
Fire Hydrant to IW-STD-W-18
Pipe Connection to IW STD-W-04-03 & STD-W-05-2
Double Air Valve to IW STD-W-22-2
Bulk Flow Meter Location
Sluice Valve to IW STD-W-15-2

COMMUNAL OPEN SPACE

POCKET PARK 233 sq.m.

PLAYGROUND
PERGOLA AND PAVED AREA
CENTRAL PUBLIC AMENITY AREA 2,263 sq.m.

FRENCH GROVE HOUSE

ADJACENT DWELLING

ADJACENT DWELLING

ADJACENT UNDEVELOPED LAND

CAIRNS ROAD

PROPOSED NEW EGRESS

TREE-LINED AVENUE