

# CASTLETROY WASTEWATER TREATMENT PLANT

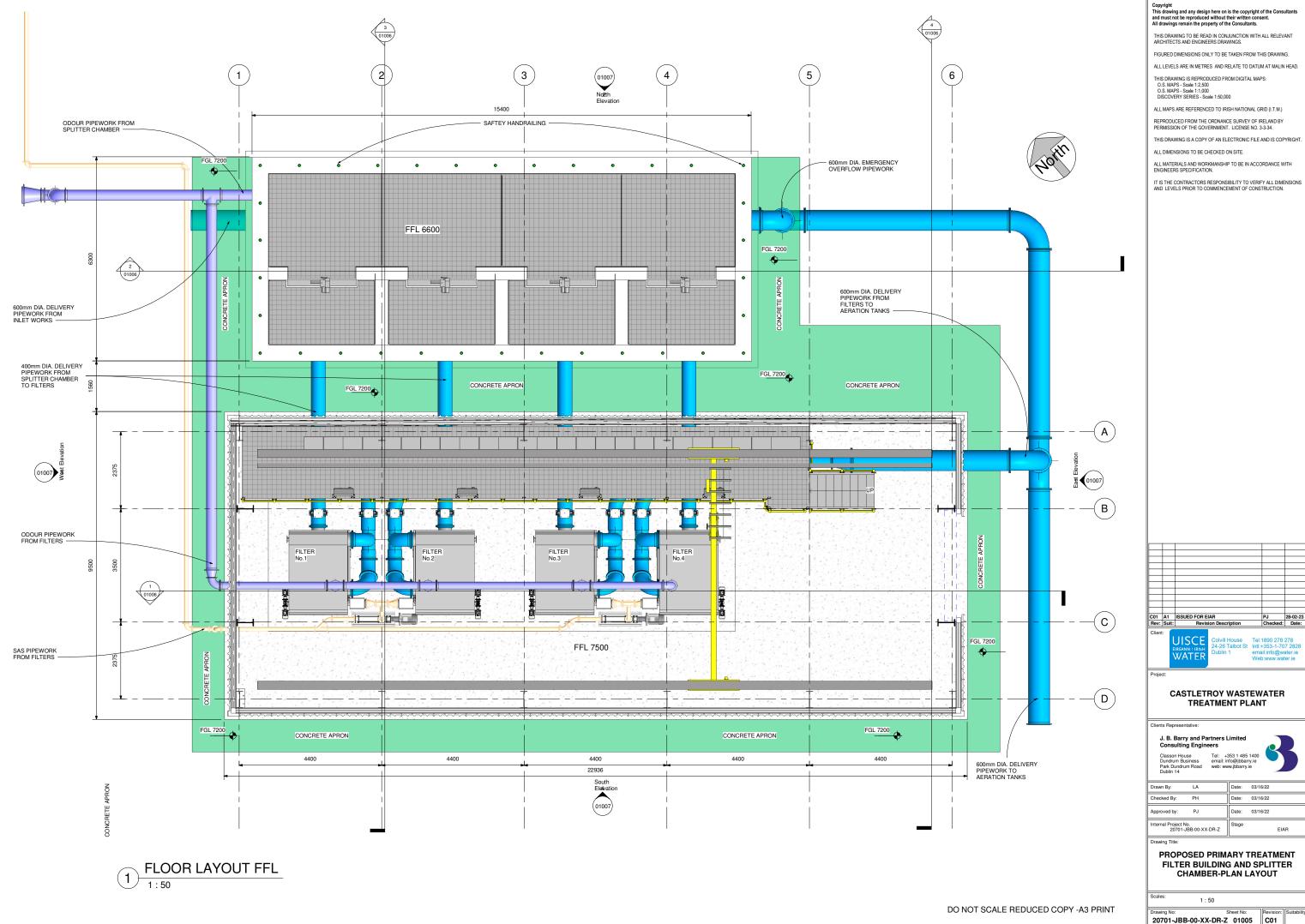
**EIAR APPLICATION MARCH 2023** 

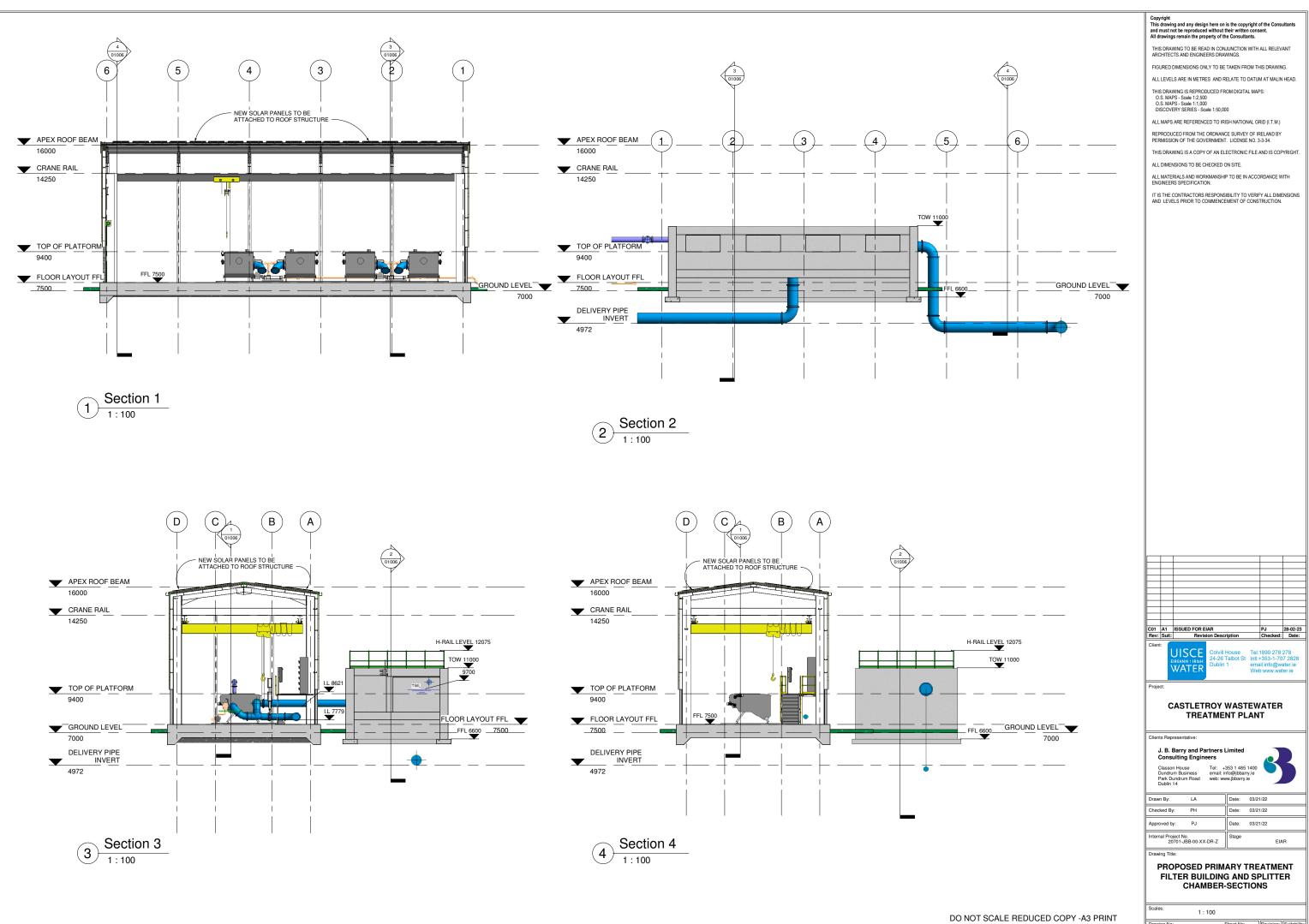


# CASTLETROY WASTEWATER TREATMENT PLANT EIAR APPLICATION - MARCH 2023 DRAWING INDEX\_ Rev.\_C01

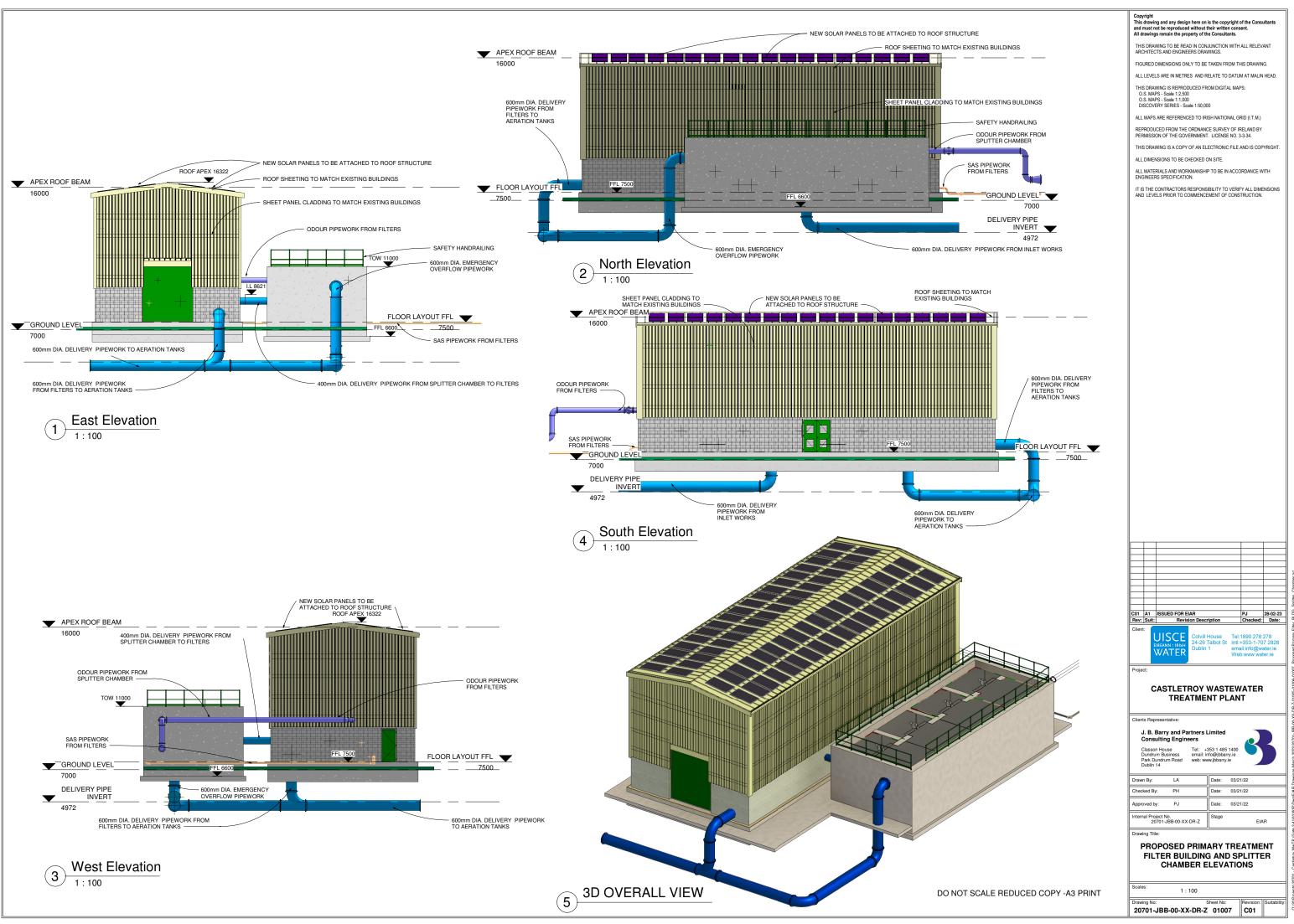
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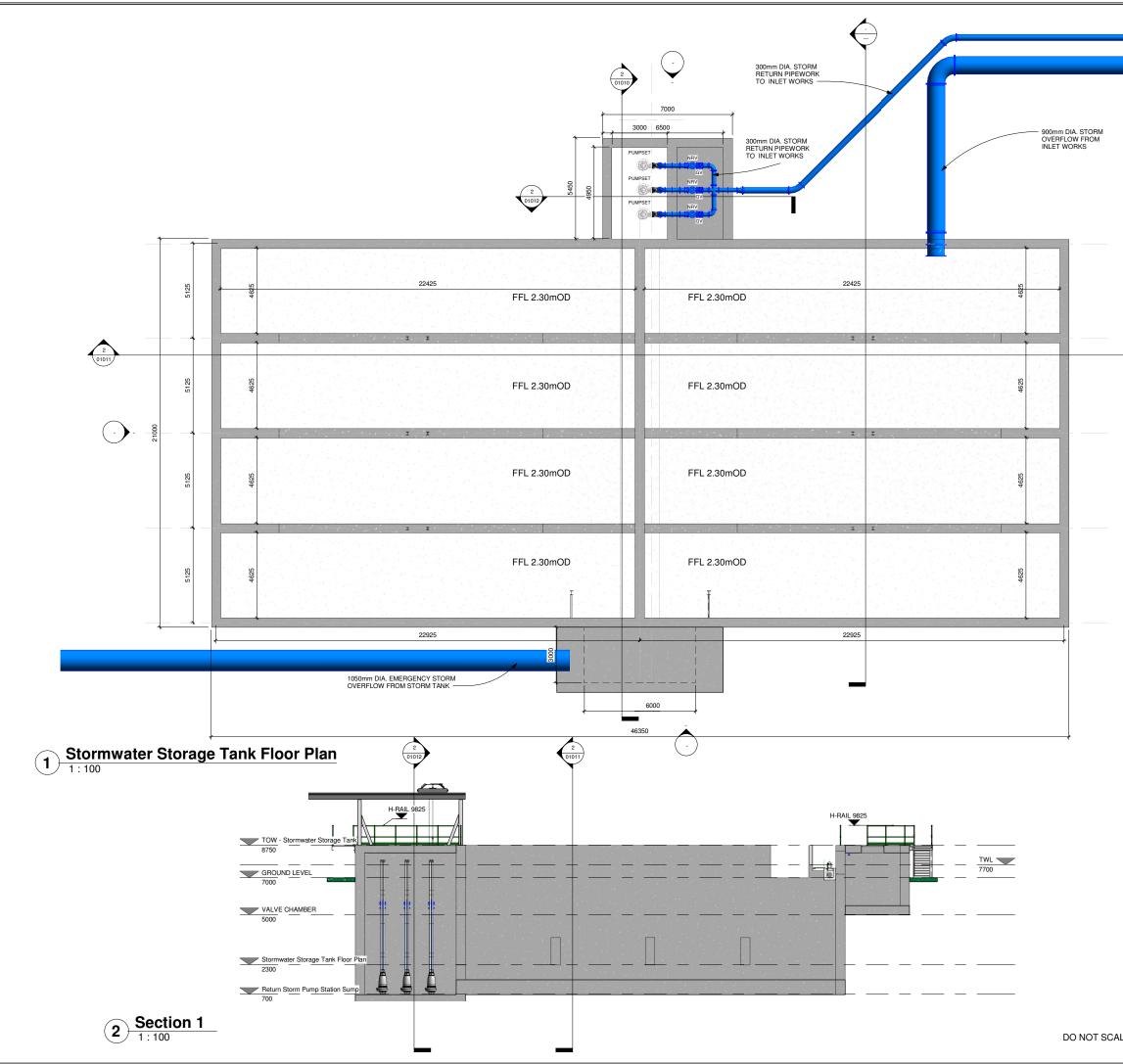
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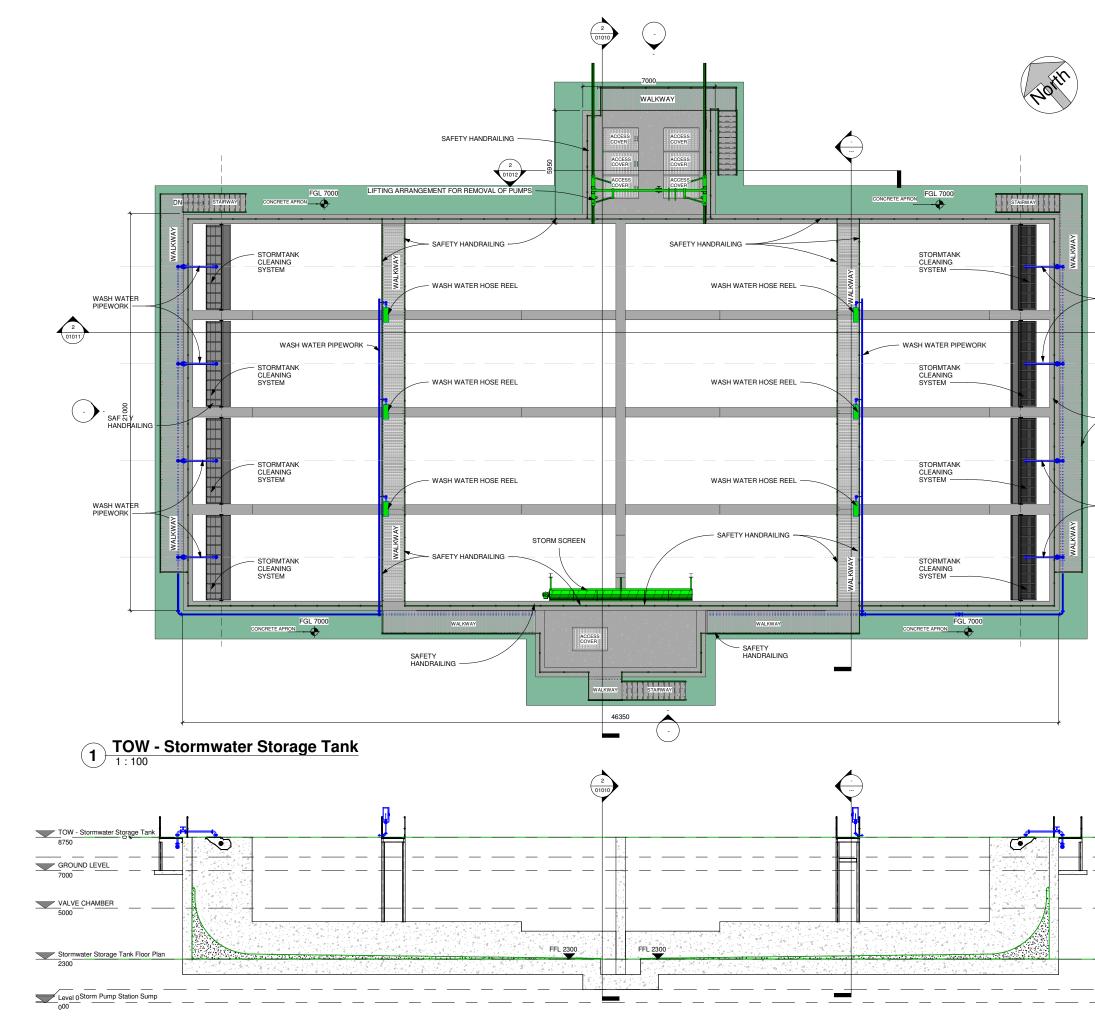
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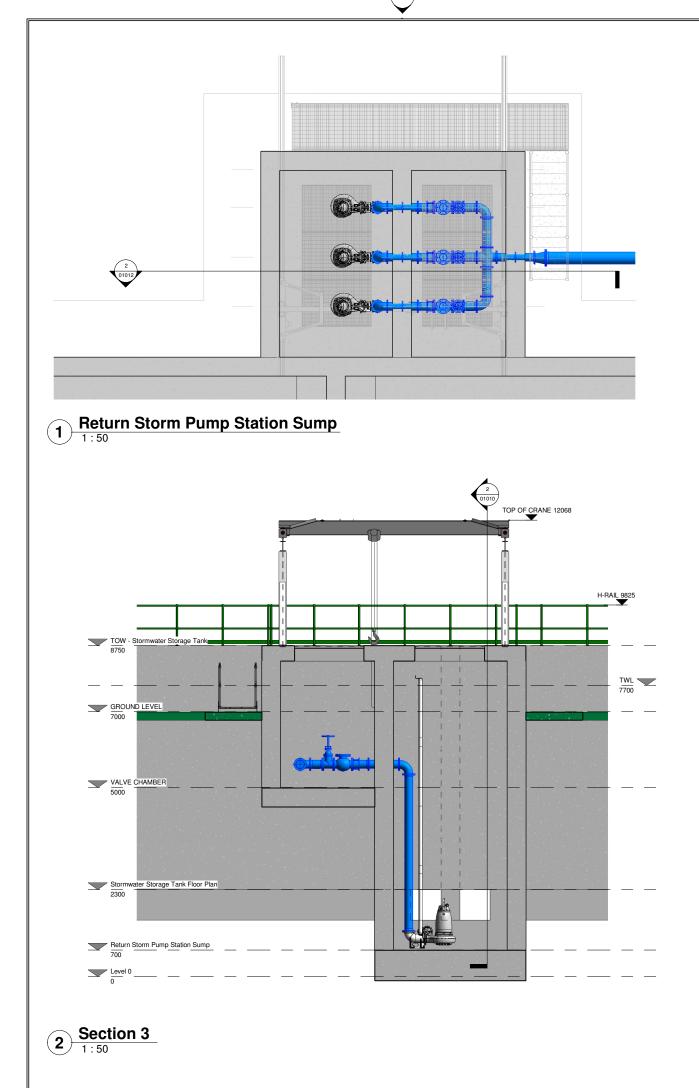
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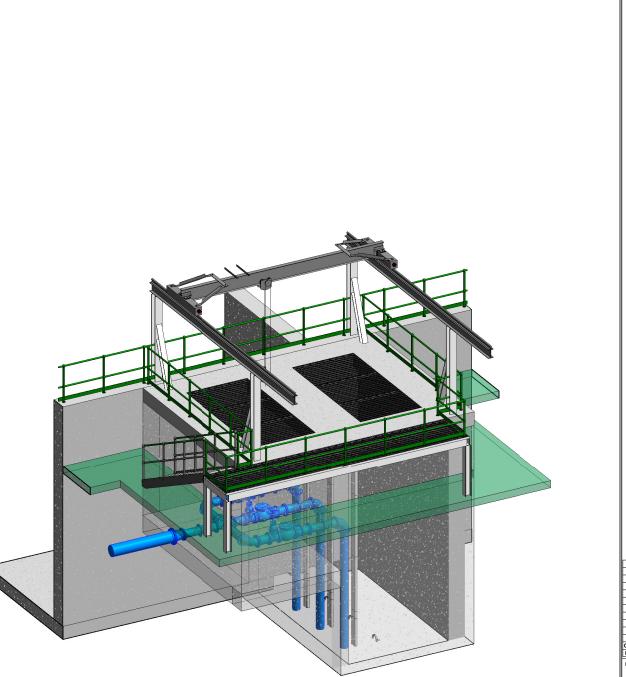
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	WATER Web:www.water.ie
	CASTLETROY WASTEWATER TREATMENT PLANT
	Clients Representative:
TWL 7700	J. B. Barry and Partners Limited Consulting Engineers
	Classon House Tel: +353 1 485 1400 Dundrum Business email: into@jbbarry.ie
	Park Dundrum Road web: www.jbbarry.ie Dublin 14
	Drawn By:         LHA         Date:         06/12/22           Checked By:         PH         Date:         06/12/22
	Approved by: PJ Date: 06/12/22
	Internal Project No. 20701-JBB-00-XX-DR-Z EIAR
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3 3D OVERALL VIEW-PUMP SUMP

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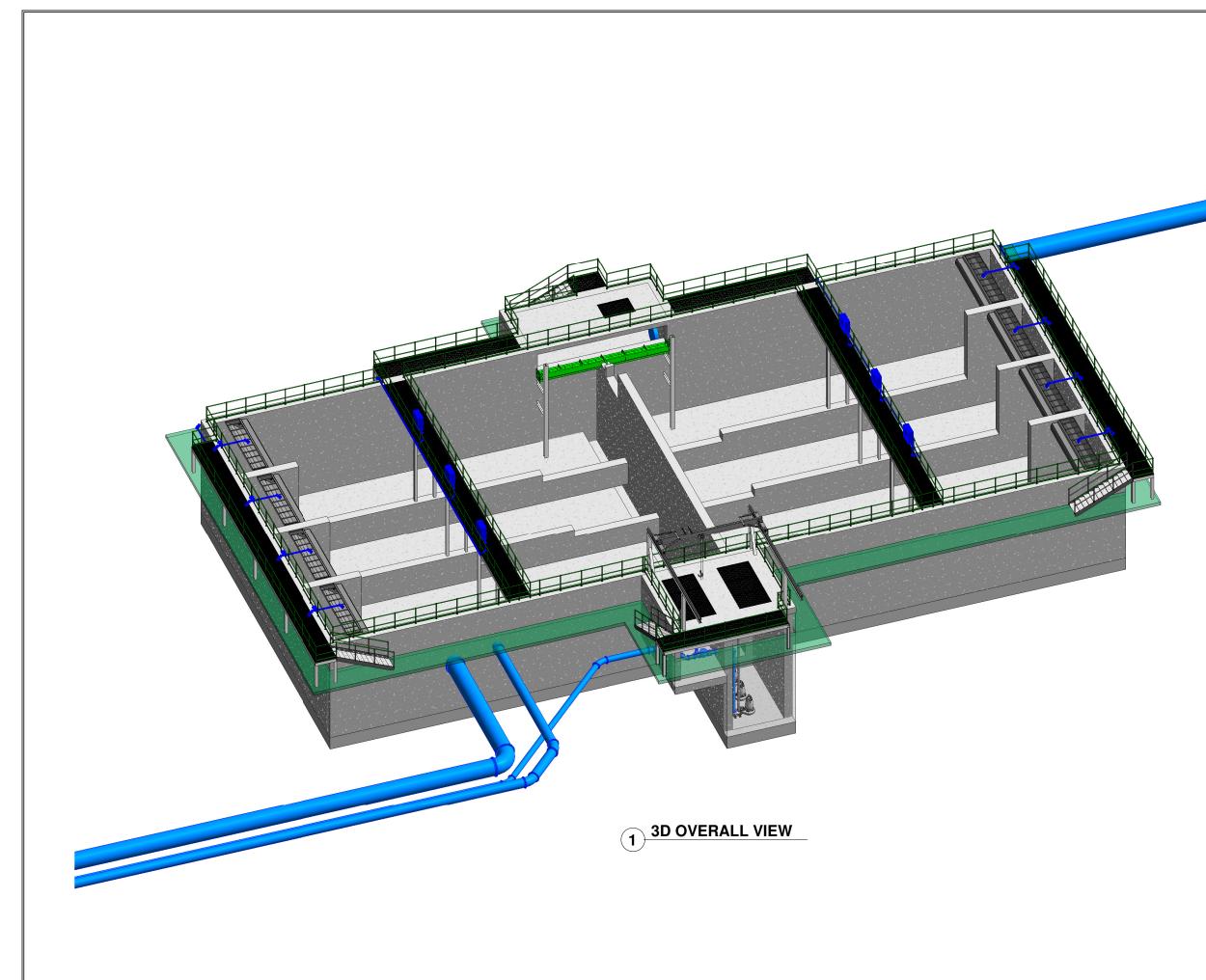
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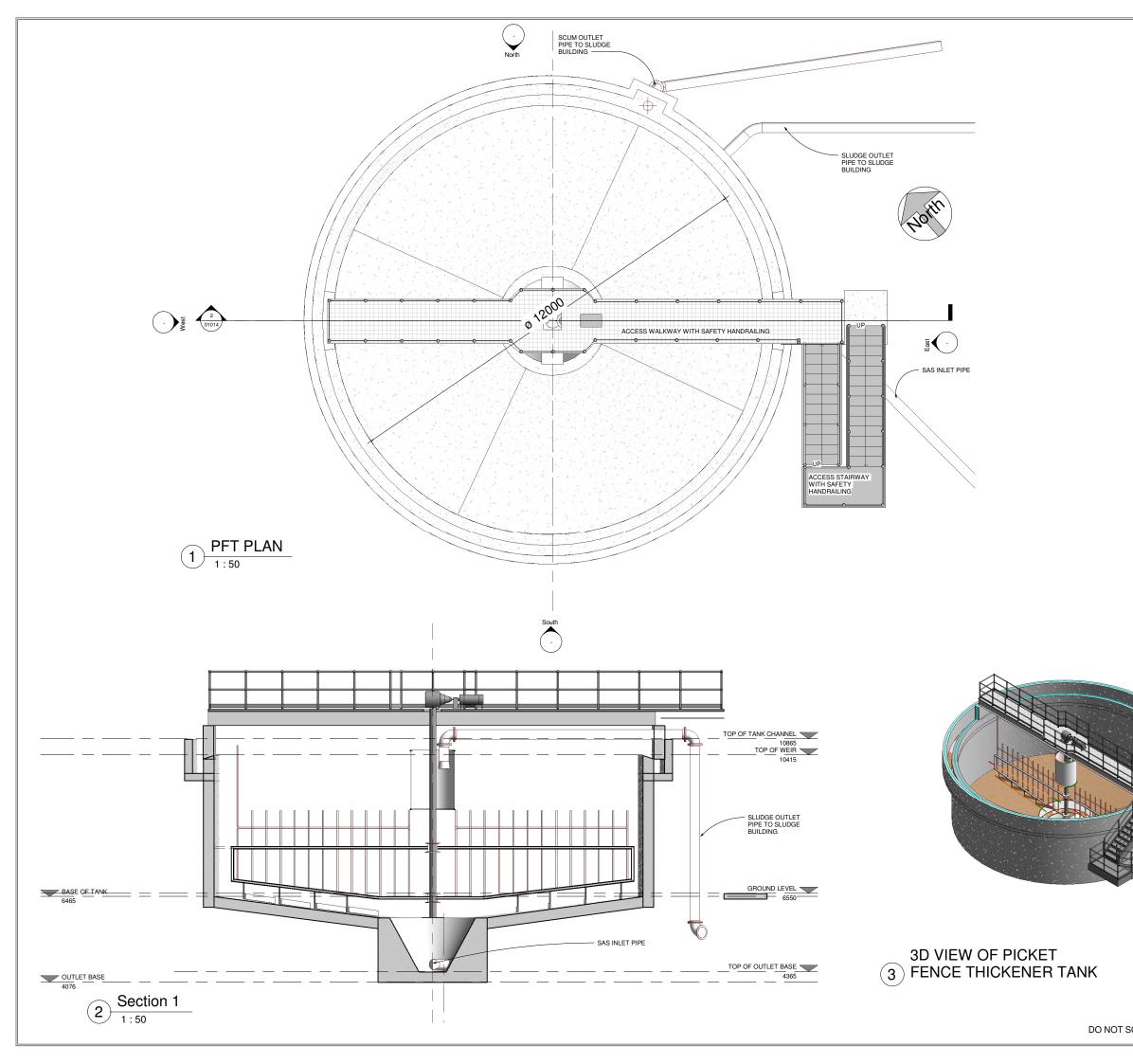
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Rev:     Suit:     Revision Description     Checked:     Date:       Client:     UISCE ENERNY LIREH WATER     Colvill House 24-26 Talbot St Dublin 1     Tel:1890 278 278 Intl:-363-1-707 2828 mail:Ind@Water.ie Web:www.water.ie       Project:     CASTLETROY WASTEWATER TREATMENT PLANT       Clients Representative:     J. B. Barry and Partners Limited Consulting Engineers       Cliescon House Dundrum Road Dundrum Road Dundrum Road Park Dundrum Road Park Dundrum Road Dundrum JBB-0x-Xx.DR.Z     Tel: -453 1495 1400 Web: www.jbbarry.ie       Drawn By:     LHA     Date:     06/12/22       Approved by:     PJ     Date:     06/12/22       Internaliting     Stage     EIAR       Drawing Title:     PROPOSED STORMWATER STORAGE TANK AND RETURN PUMP STATION 3D OVERALL VIEW       Scales:     Drawing No:     Sheet No:									
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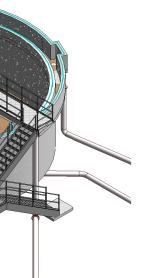
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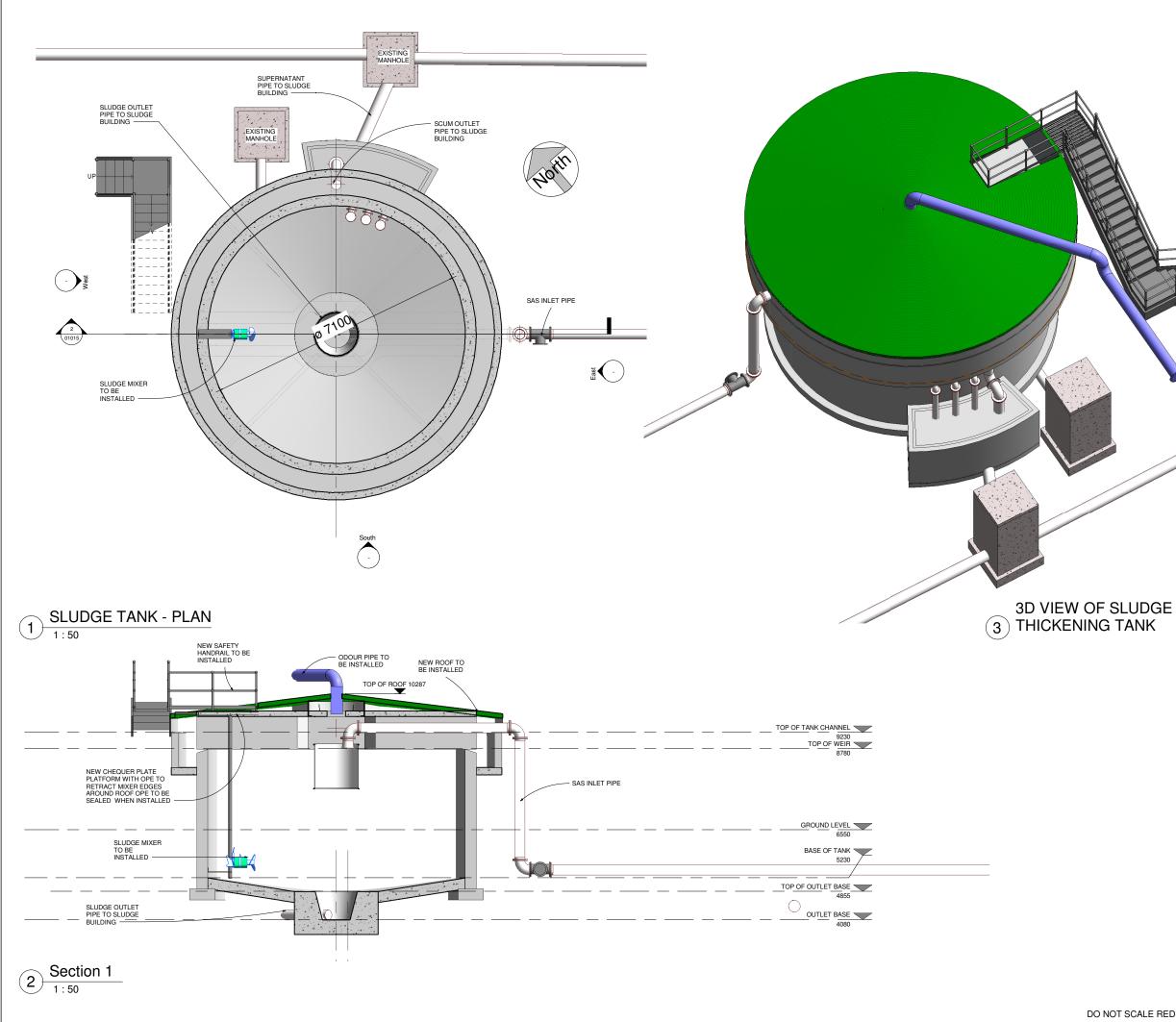
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Drawn By:

Checked By:

Drawing Title:

Approved by: PJ

Internal Project No. 20701-JBB-00-XX-DR-Z-

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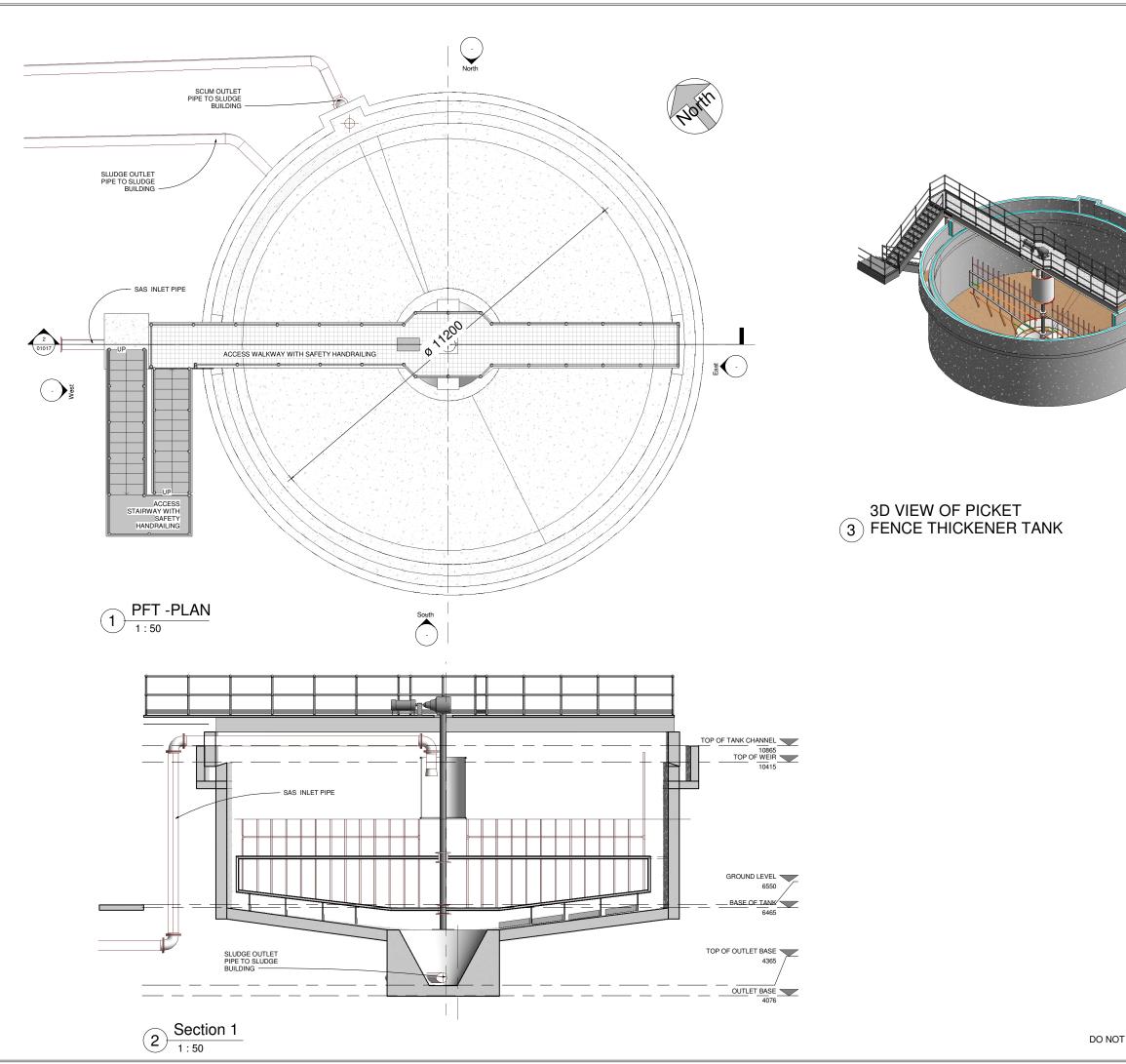
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# Tel:1890 278 278 Intl:+353-1-707 2828 email:info@water.ie Web:www.water.ie WATER CASTLETROY WASTEWATER TREATMENT PLANT Clients Rep J. B. Barry and Partners Limited Consulting Engineers Classon House Dundrum Business Park Dundrum Road Dublin 14 Dublin 14

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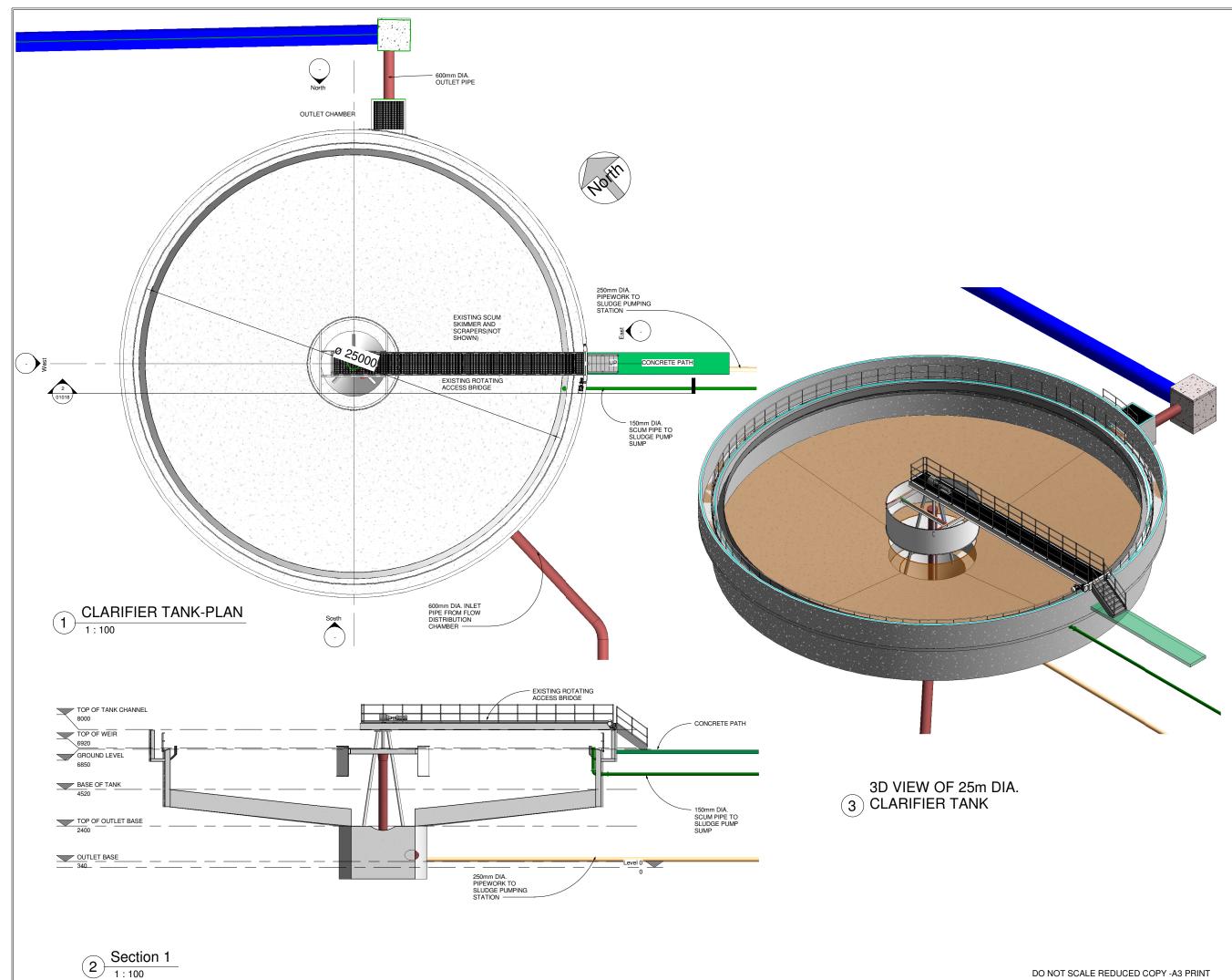
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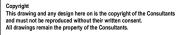
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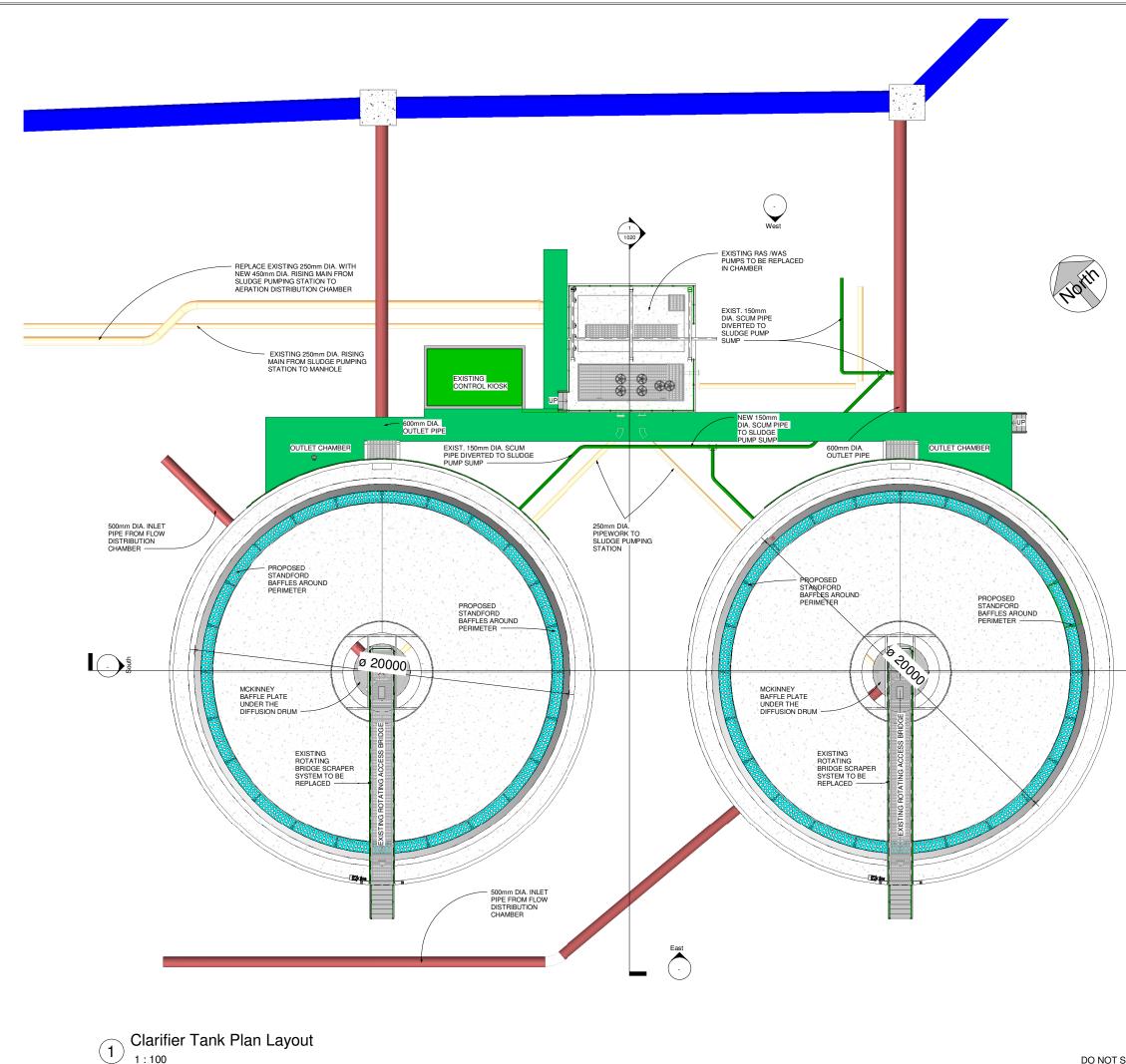
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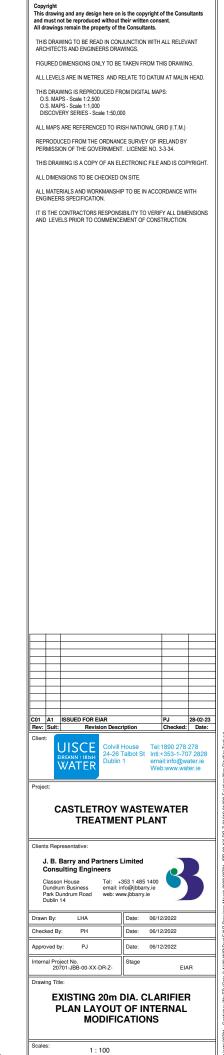
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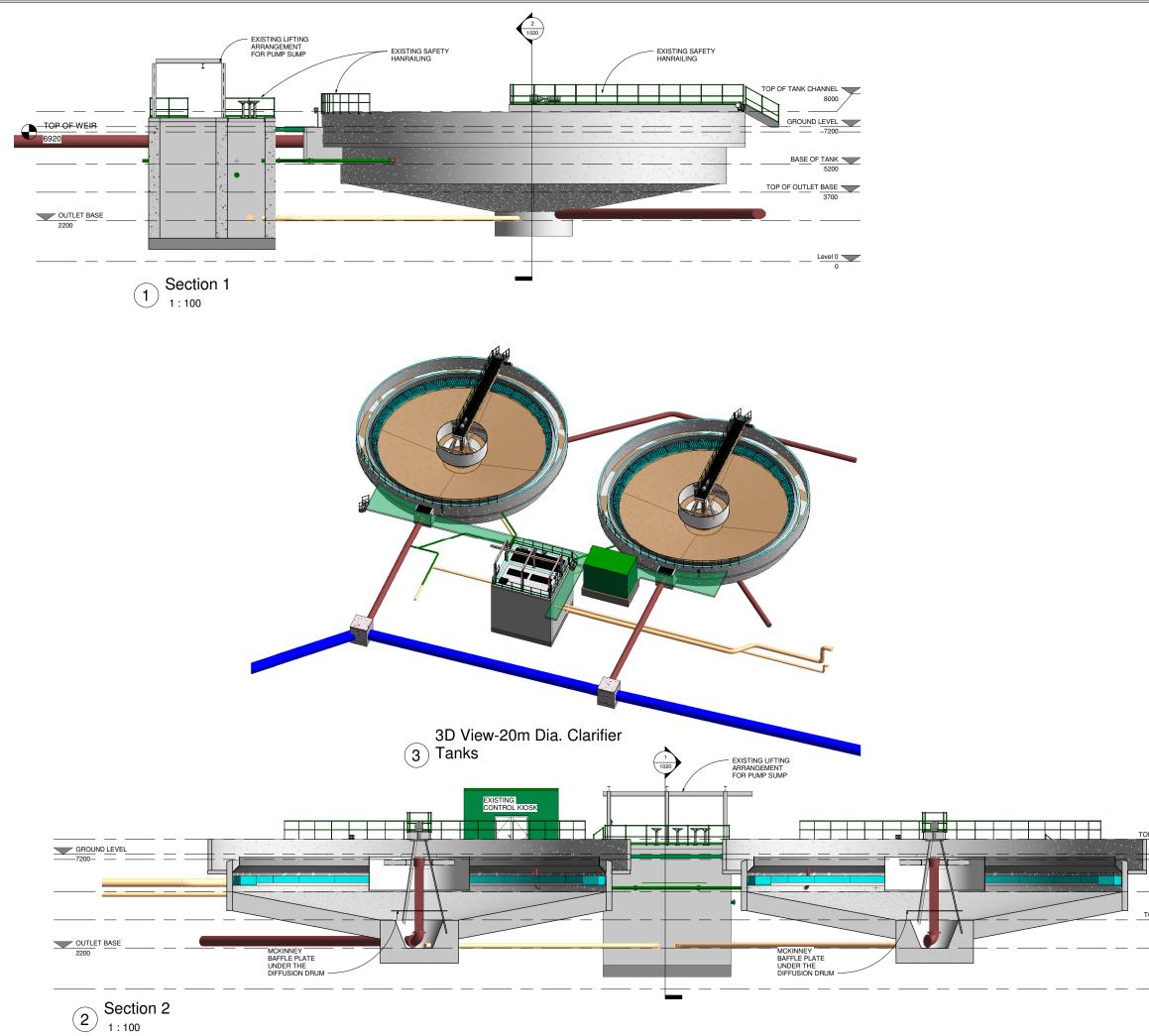
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	House Tel:1890 278 278 Talbot St Intt:+353-1-707 2828 1 email:info@water.ie Web:www.water.ie
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Clients Representative: J. B. Barry and Partners Consulting Engineers	Limited
Classon House Tel: + Dundrum Business email: i	353 1 485 1400 nfo@ibbarry.ie ww.jbbarry.ie
Drawn By: LHA	Date: 06/12/22
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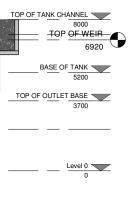


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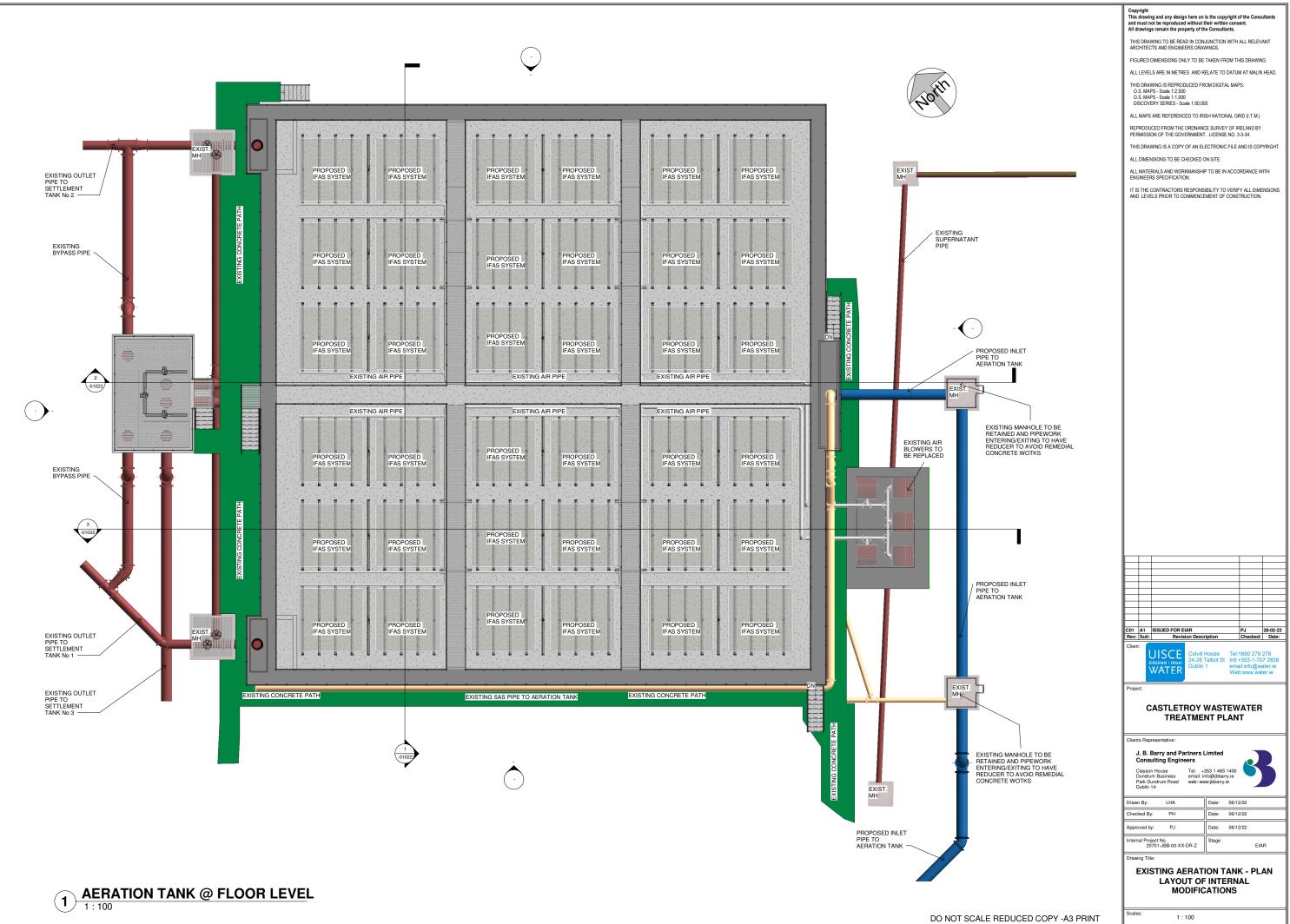
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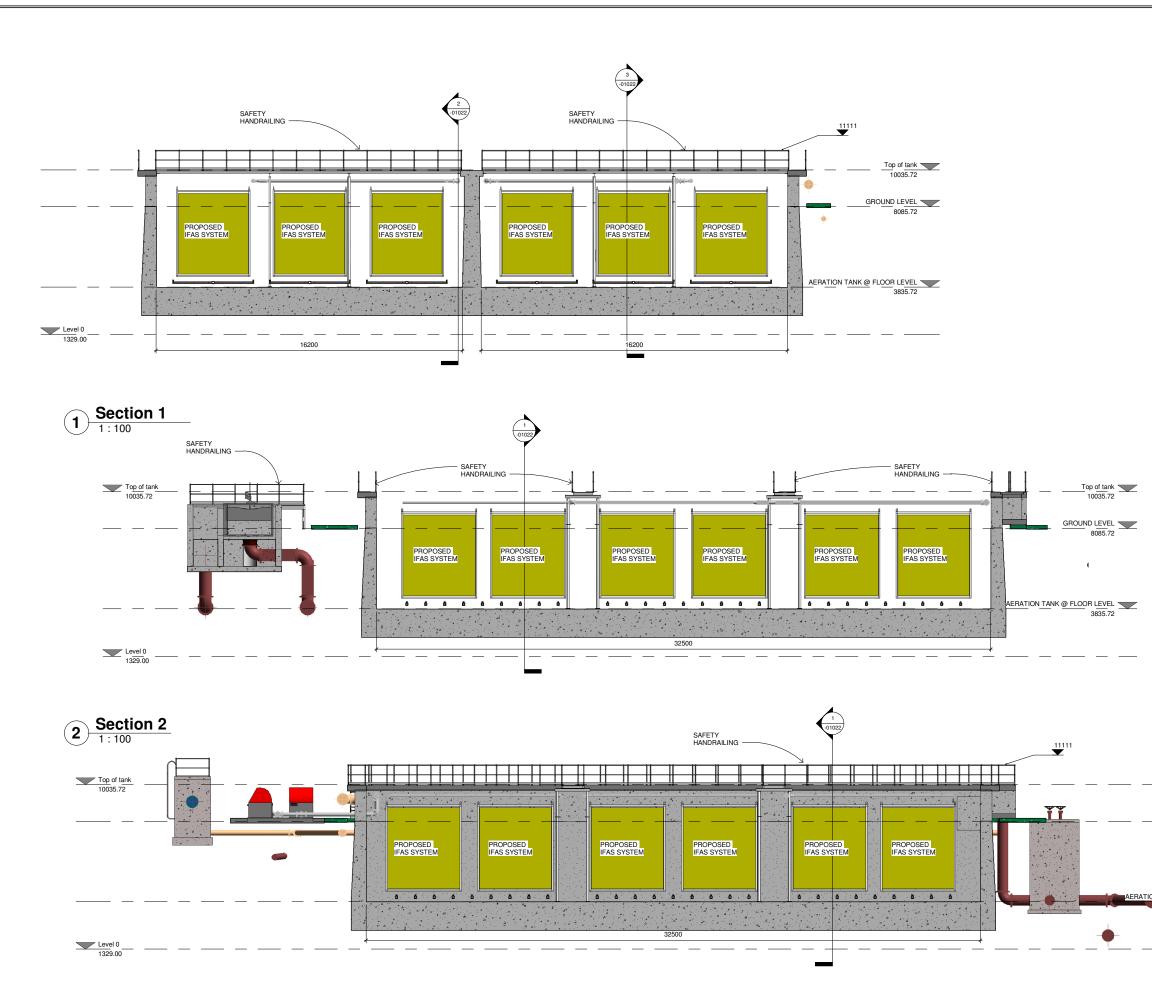
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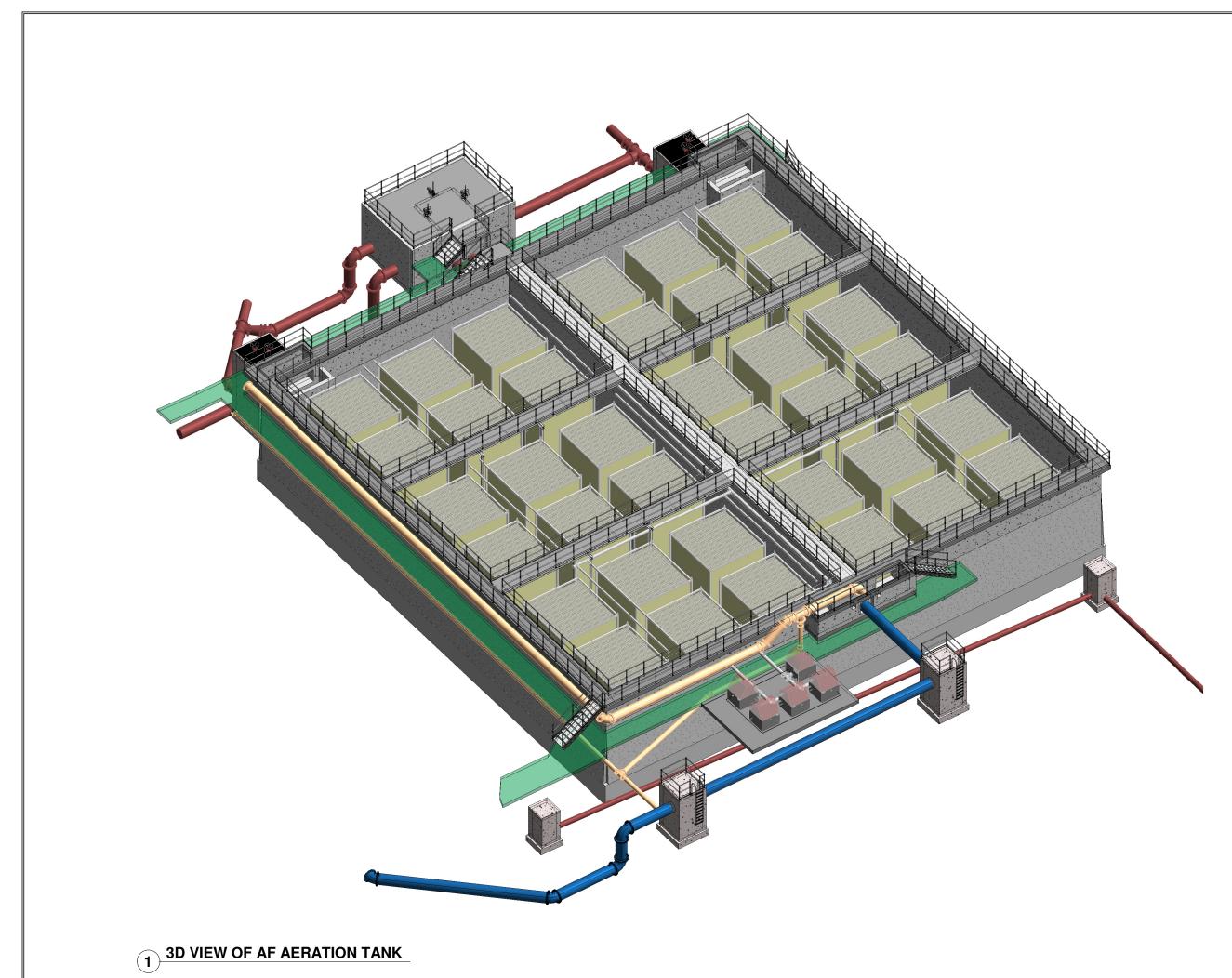


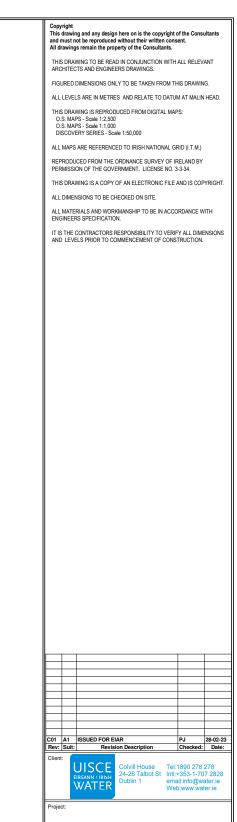
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# CASTLETROY WASTEWATER TREATMENT PLANT

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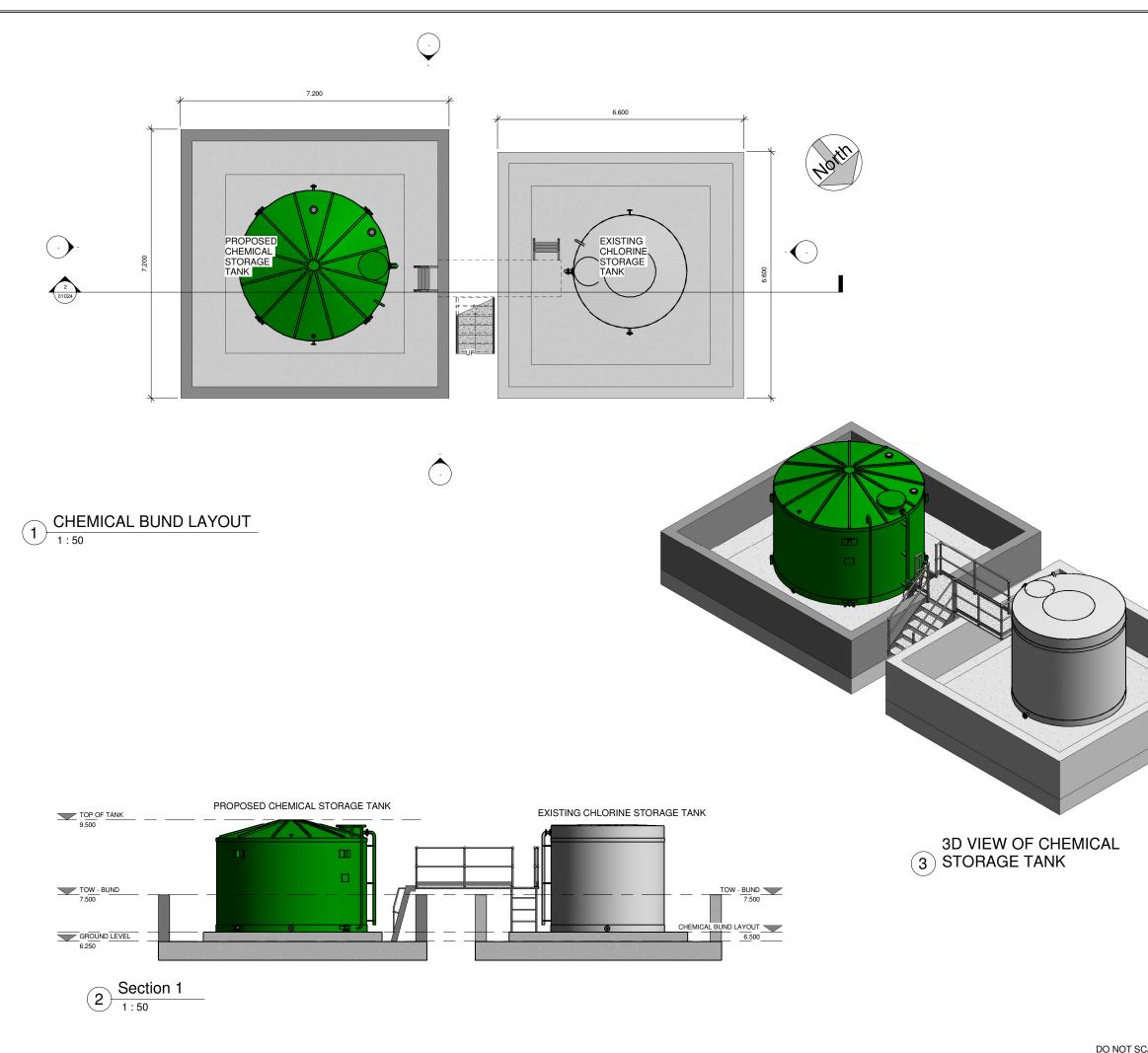
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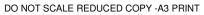
Classon House Dundrum Business Park Dundrum Road Tel: +353 1 485 1400 email: info@jbbarry.ie web: www.jbbarry.ie

rawn By: LHA	Date: 06/12	/22
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pproved by: PJ	Date: 06/12	/22
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## EXISTING AERATION - 3D VIEW OF INTERNAL MODIFICATIONS

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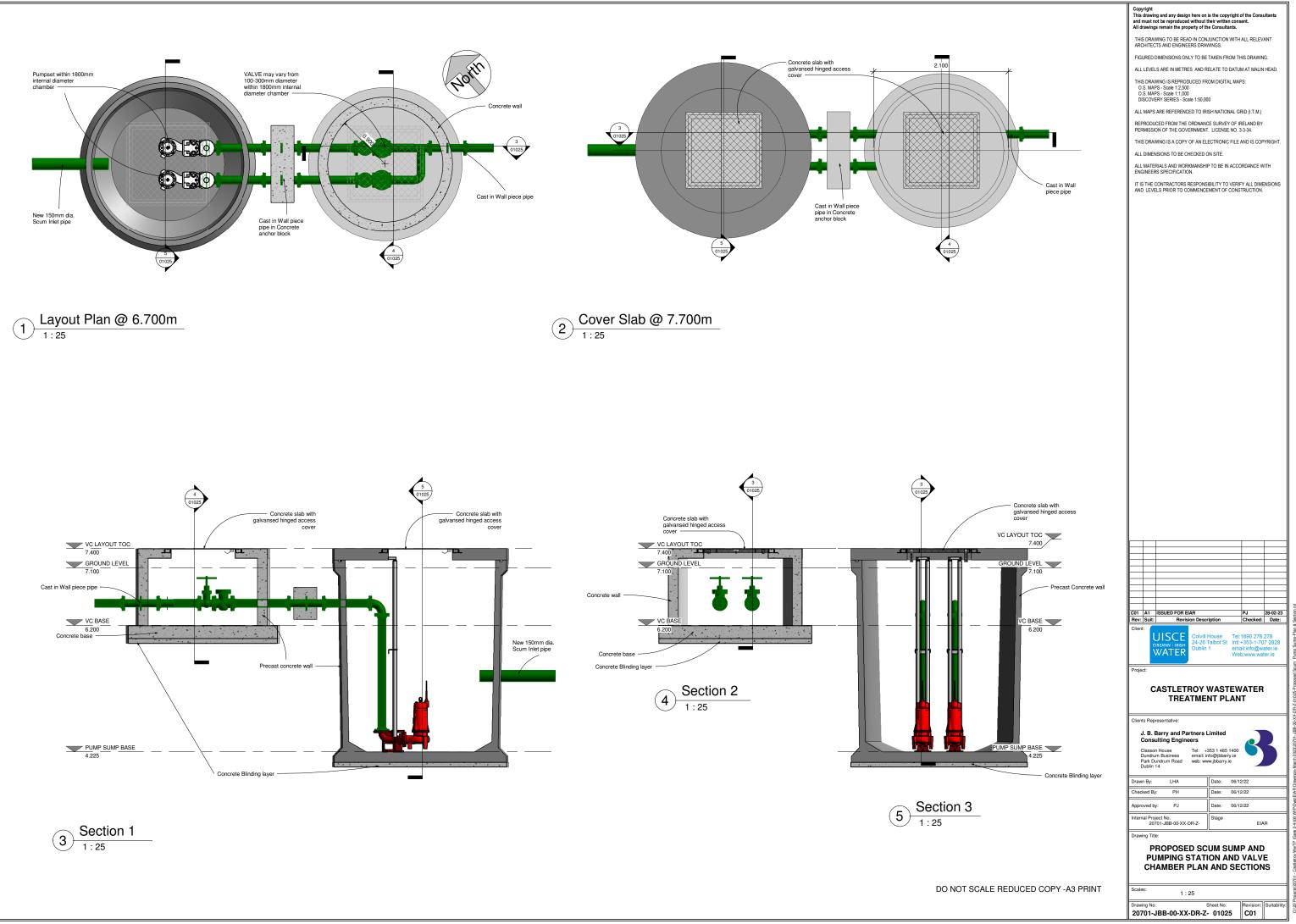
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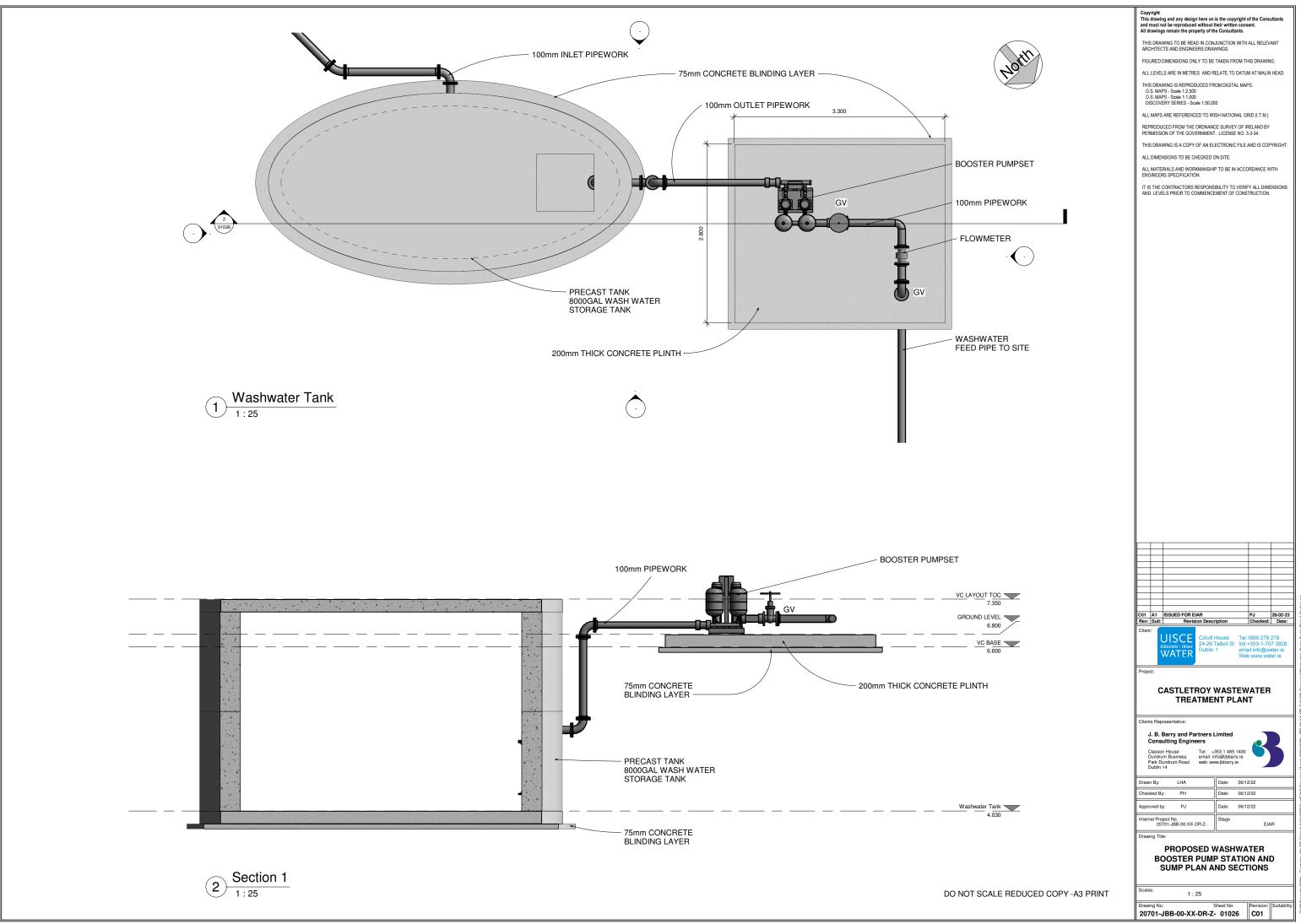
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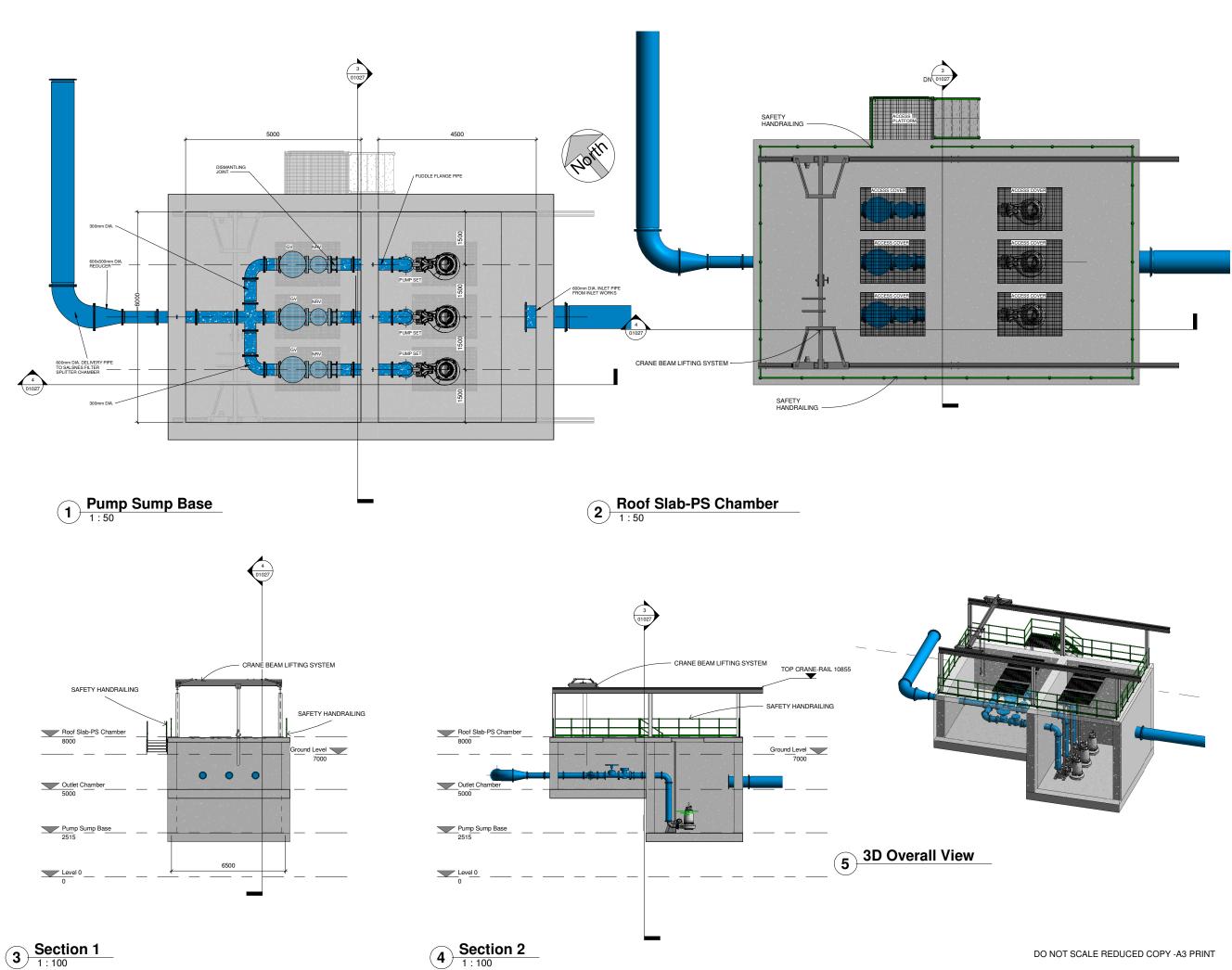
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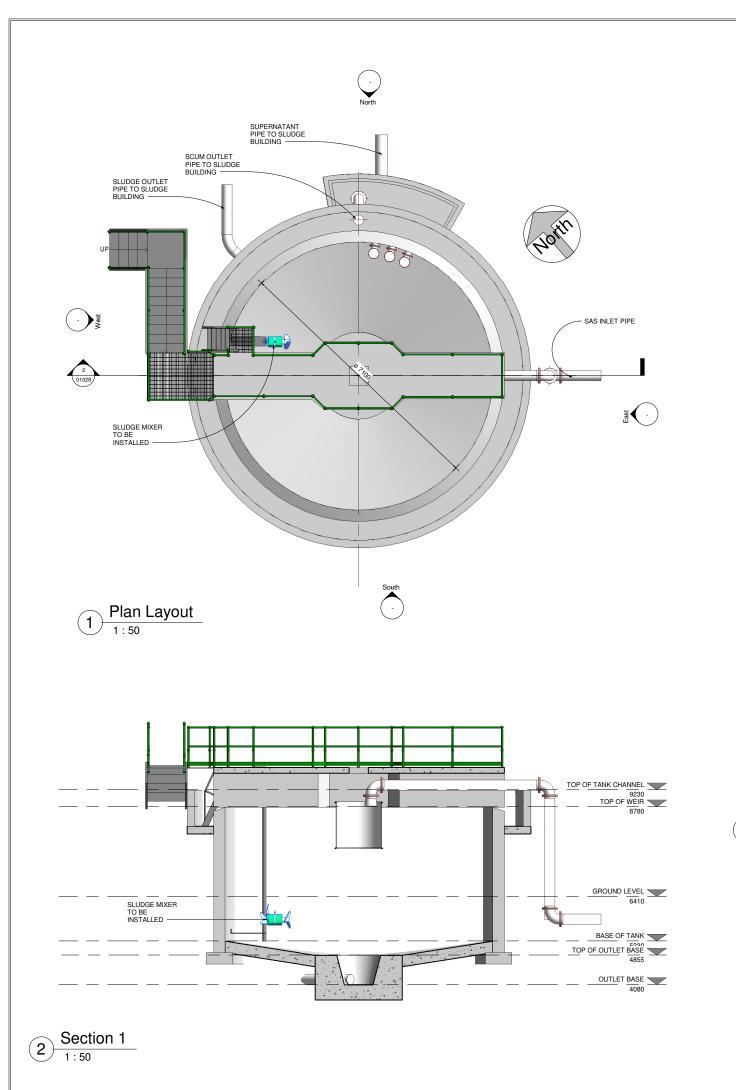
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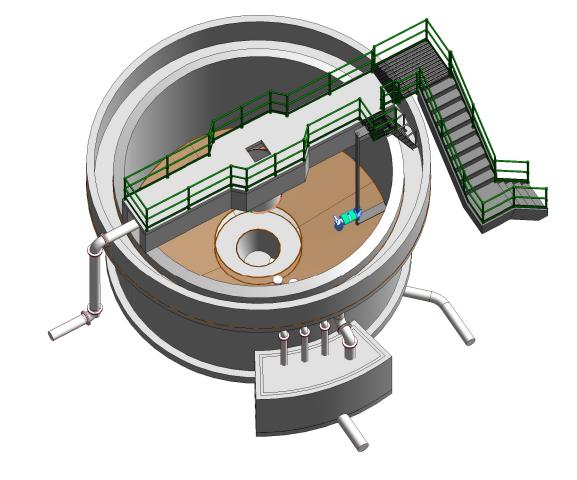
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C01 A1 ISSUED FOR EIAR Rev: Suit: Revision Description	PJ 28-02-23 Checked: Date:
Client: UISCE EREANN : IRISH WATER Colvill House 24-26 Talbot Dublin 1	
CASTLETROY WAS TREATMENT I	
Clients Representative:	
J. B. Barry and Partners Limite Consulting Engineers Classon House Dundrum Business Park Dundrum Road Dublin 14	l85 1400 barry.ie
Drawn By: LHA Date:	06/12/22
Checked By: PH Date:	06/12/22
Approved by: PJ Date:	06/12/22
Internal Project No. 20701-JBB-00-XX-DR-Z-	EIAR
Drawing Title: PROPOSED STORM PUMP SUMP PLAN AI	-
Scales: As indicated	





3D View - Sludge 3 Thickening Tank



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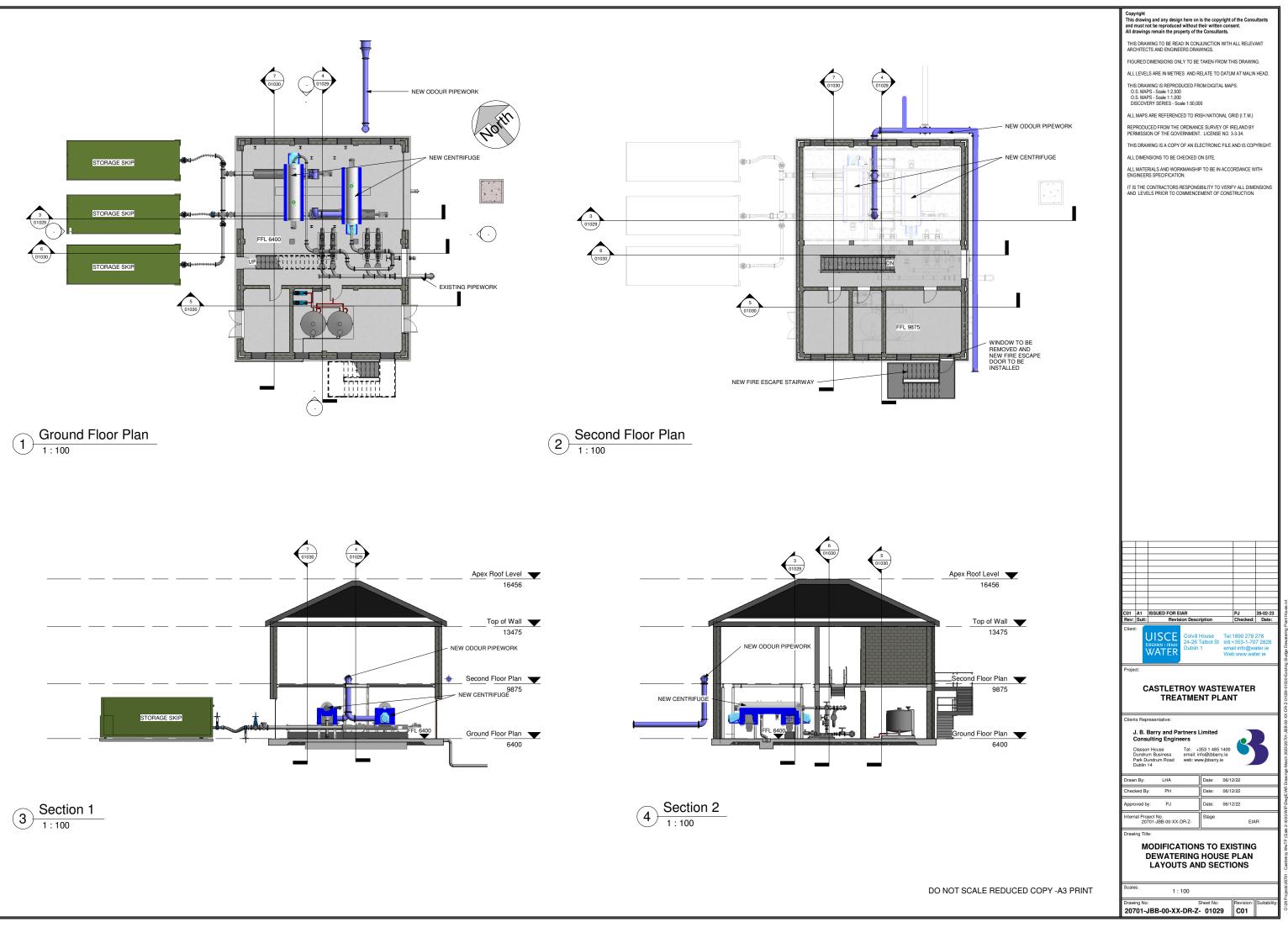
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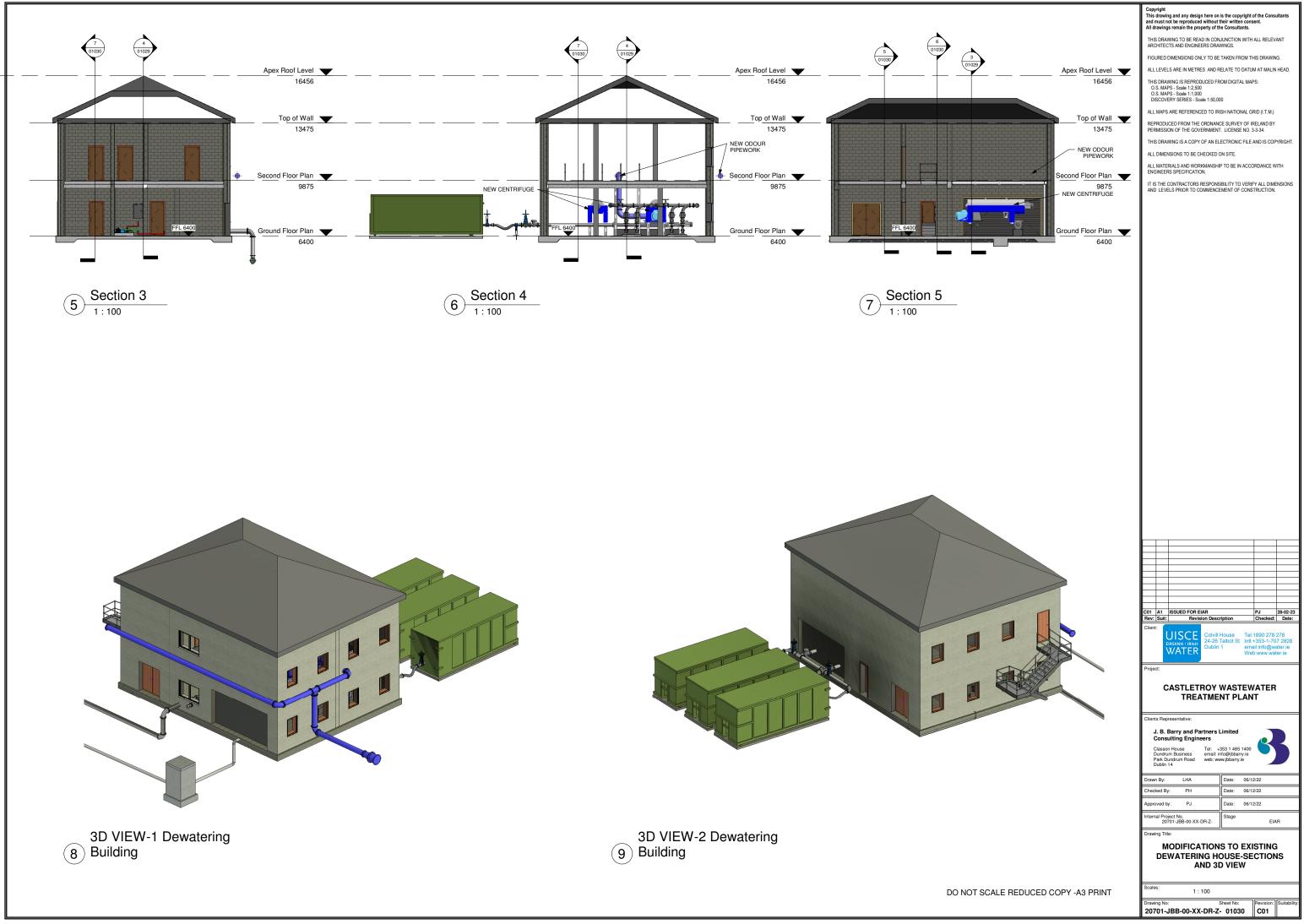
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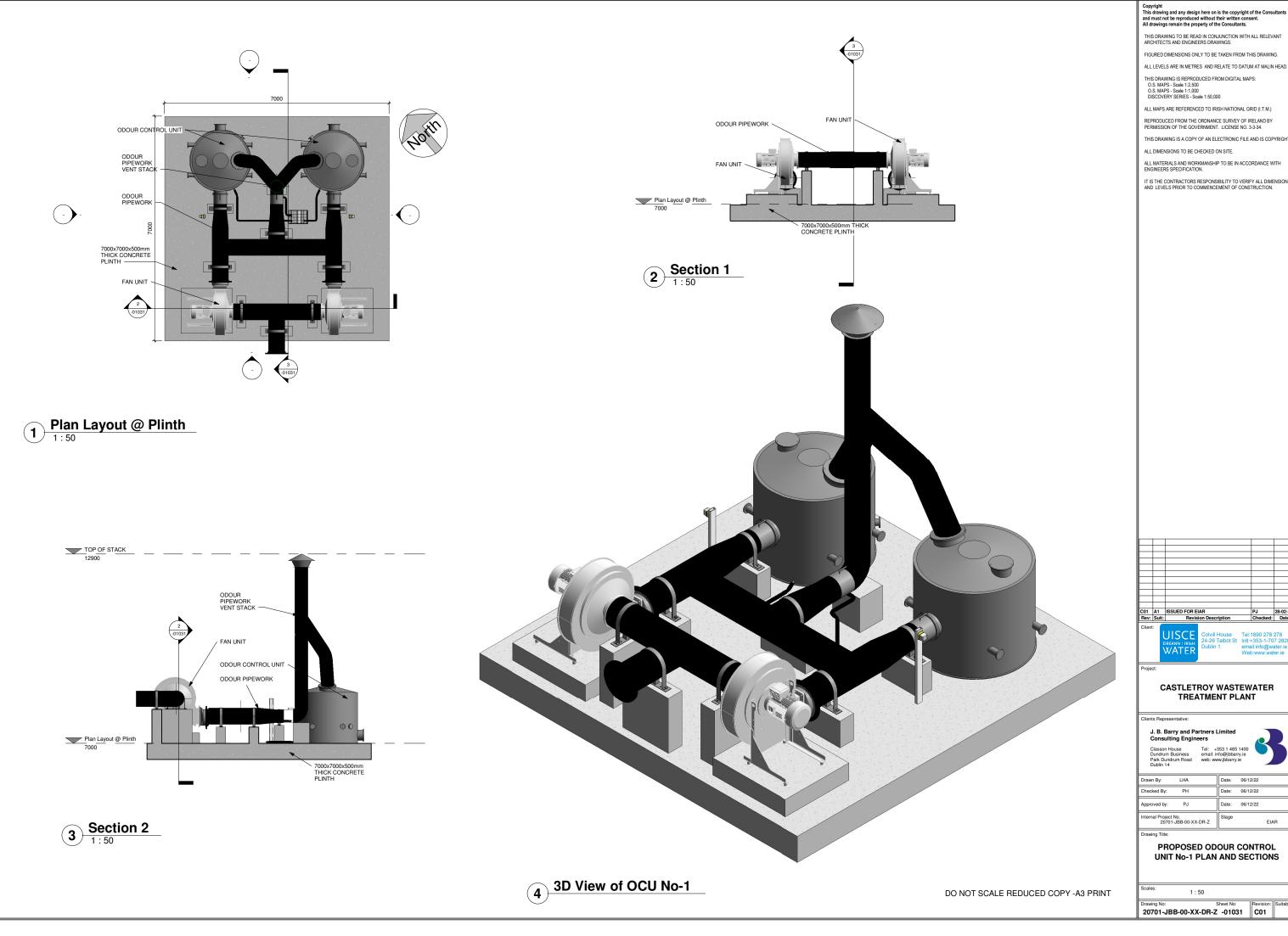
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	House Tel:1890 278 278 Talbot St Intl:+353-1-707 2828 1 email:info@water.ie Web:www.water.ie
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Clients Representative:	
Dundrum Business email: i	Limited 353 1 485 1400 nfo@jbbarry.ie wujbbarry.ie
Drawn By: LHA	Date: 06/12/22
Checked By: PH	Date: 06/12/22
Approved by: PJ	Date: 06/12/22
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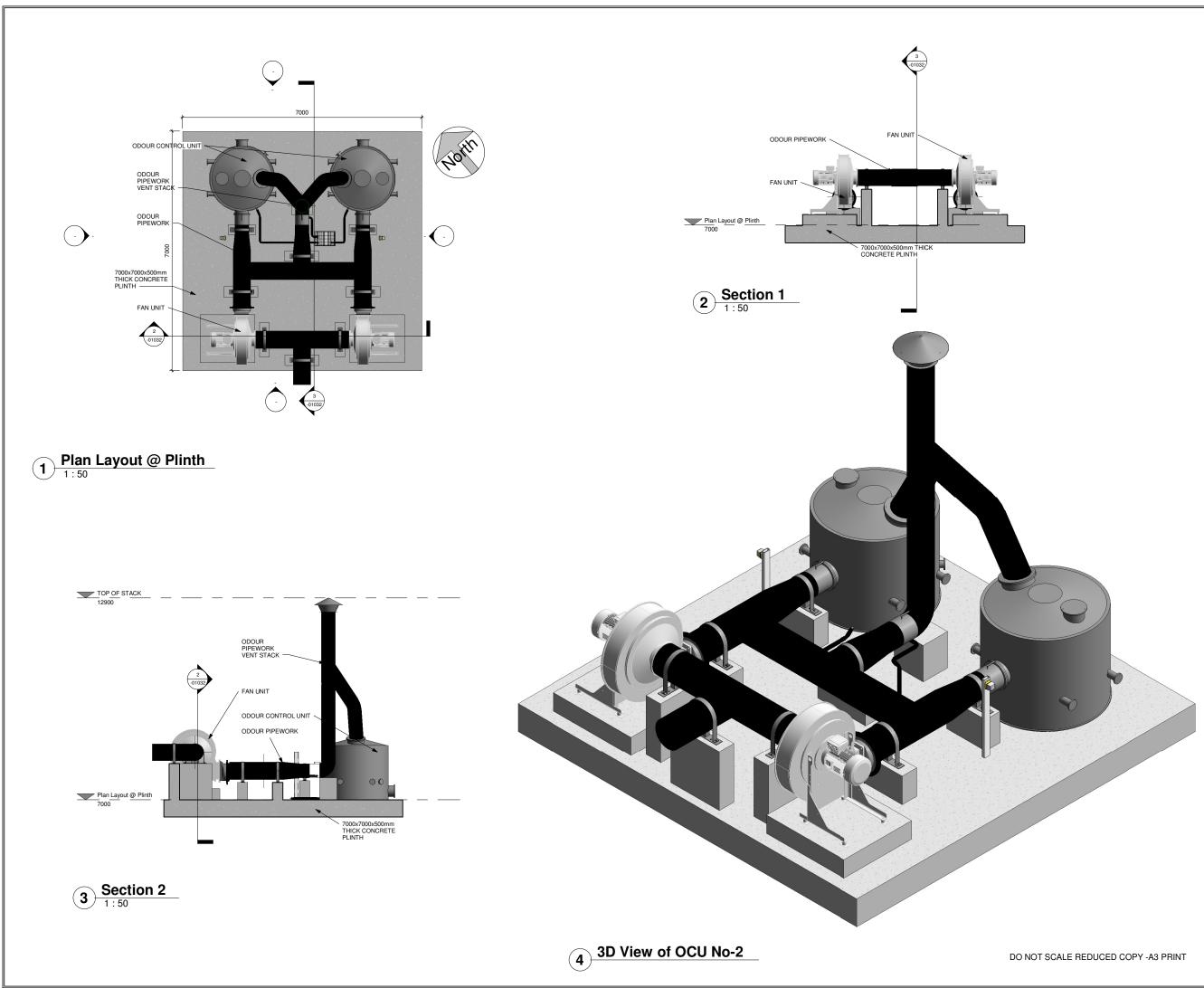
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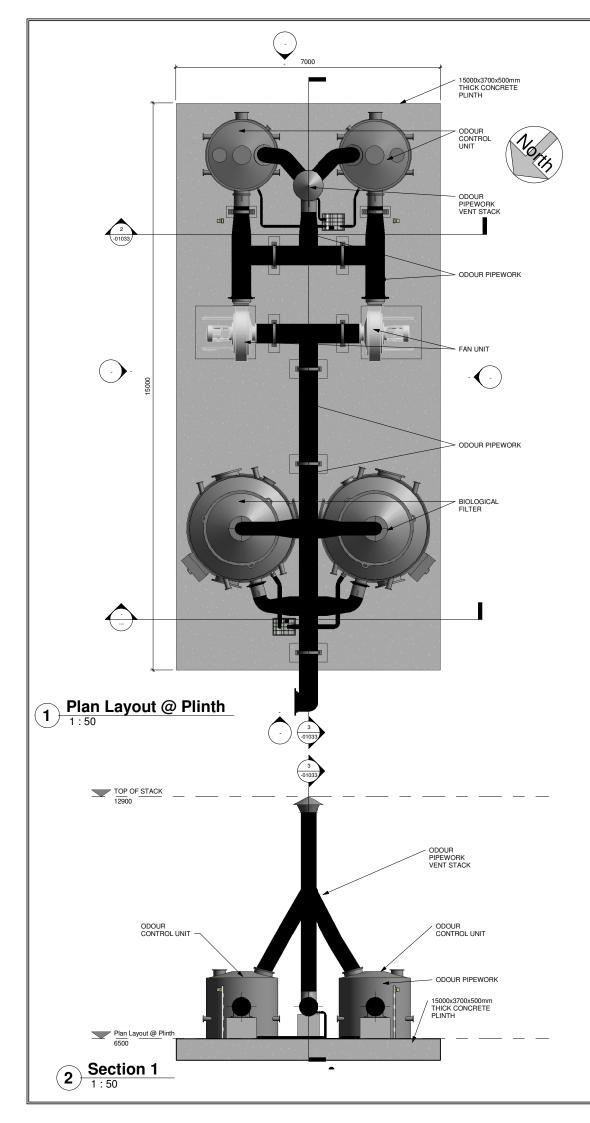
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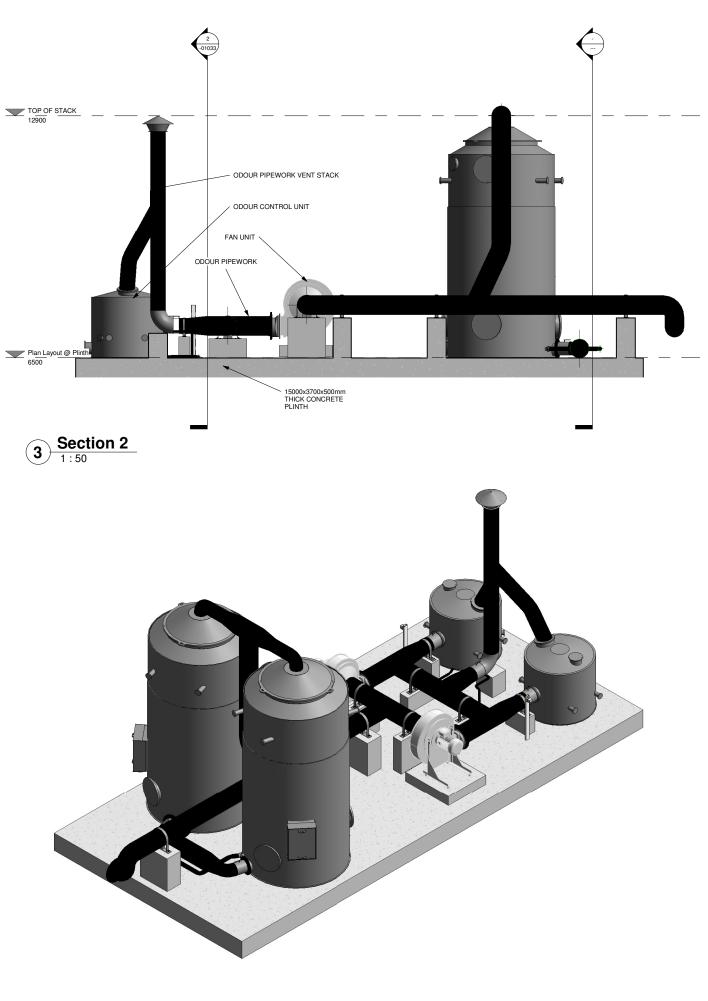
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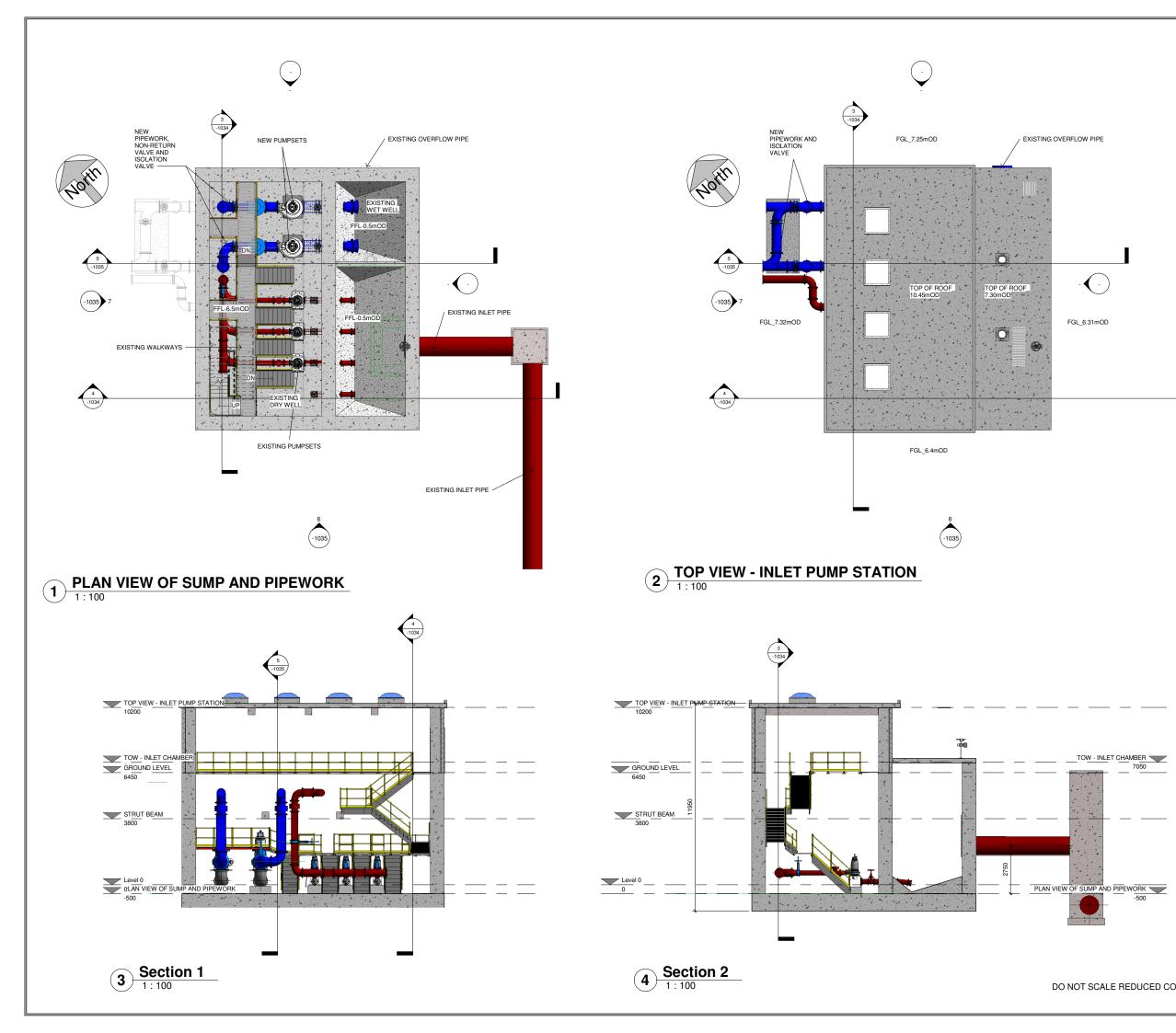
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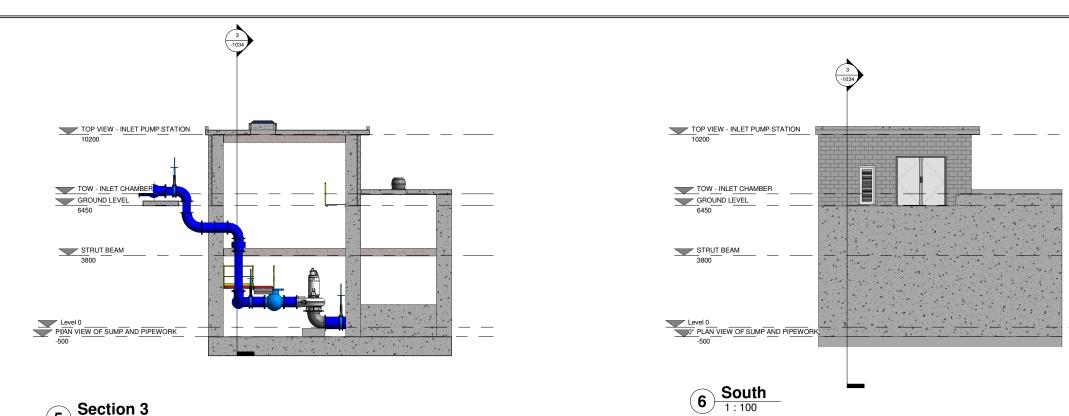
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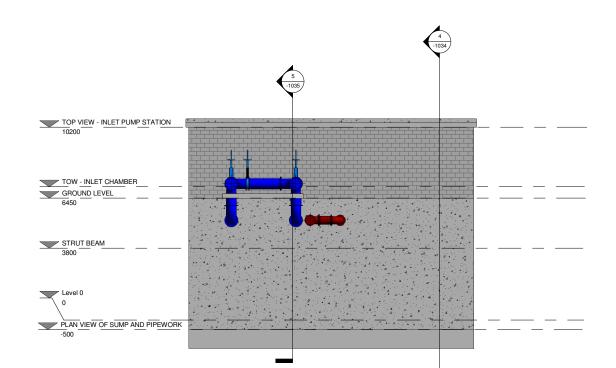
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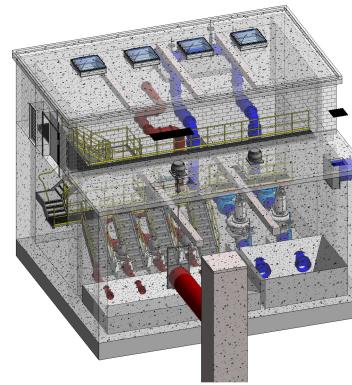
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	Clients Representative:				
	J. B. Barry and Partners L Consulting Engineers				
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8 3D VIEW OF PUMP STATION

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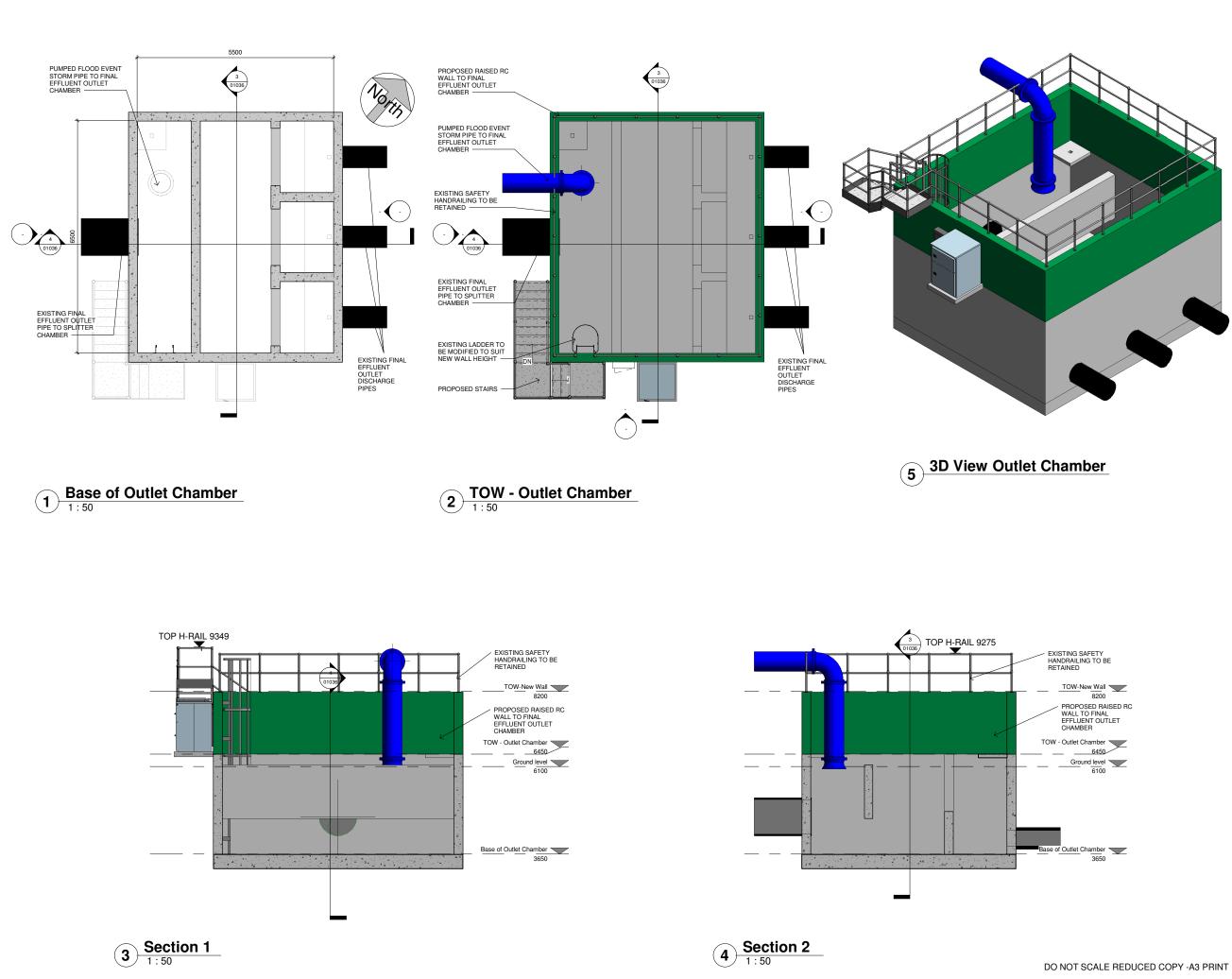
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Client	UISCE BERANN 31RISH WATER Colvill House 24-26 Talbot St Dublin 1 Tel:1830 278 278 Intl:+353-1-707 2828 email:inf@water.ie Web:www.water.ie									
Projec	Project:									
	CASTLETROY WASTEWATER TREATMENT PLANT									
Client	s Rep	resentative:								
C D P	J. B. Barry and Partners Limited Consulting Engineers Classon House Dundrum Rusiness Park Dundrum Road Dublin 14									
Drawr	n By:	LHA		Date:	06/12	2/22				
Check	ked By	r: PH		Date:	06/12	2/22				
Appro	ved b	y: PJ		Date:	06/12	2/22				
Intern	Internal Project No. 20701-JBB-00-XX-DR-Z EIAR									
Drawi	ng Titl	e:								
MODIFICATIONS TO EXISTING RAW SEWAGE INLET PUMP STATION-SECTIONS AND ELEVATIONS										
Scale	s:	1:	100							
	ng No 7 <b>01-</b>	JBB-00-XX		Sheet No: -103	5	Revision: C01	Suitability:			

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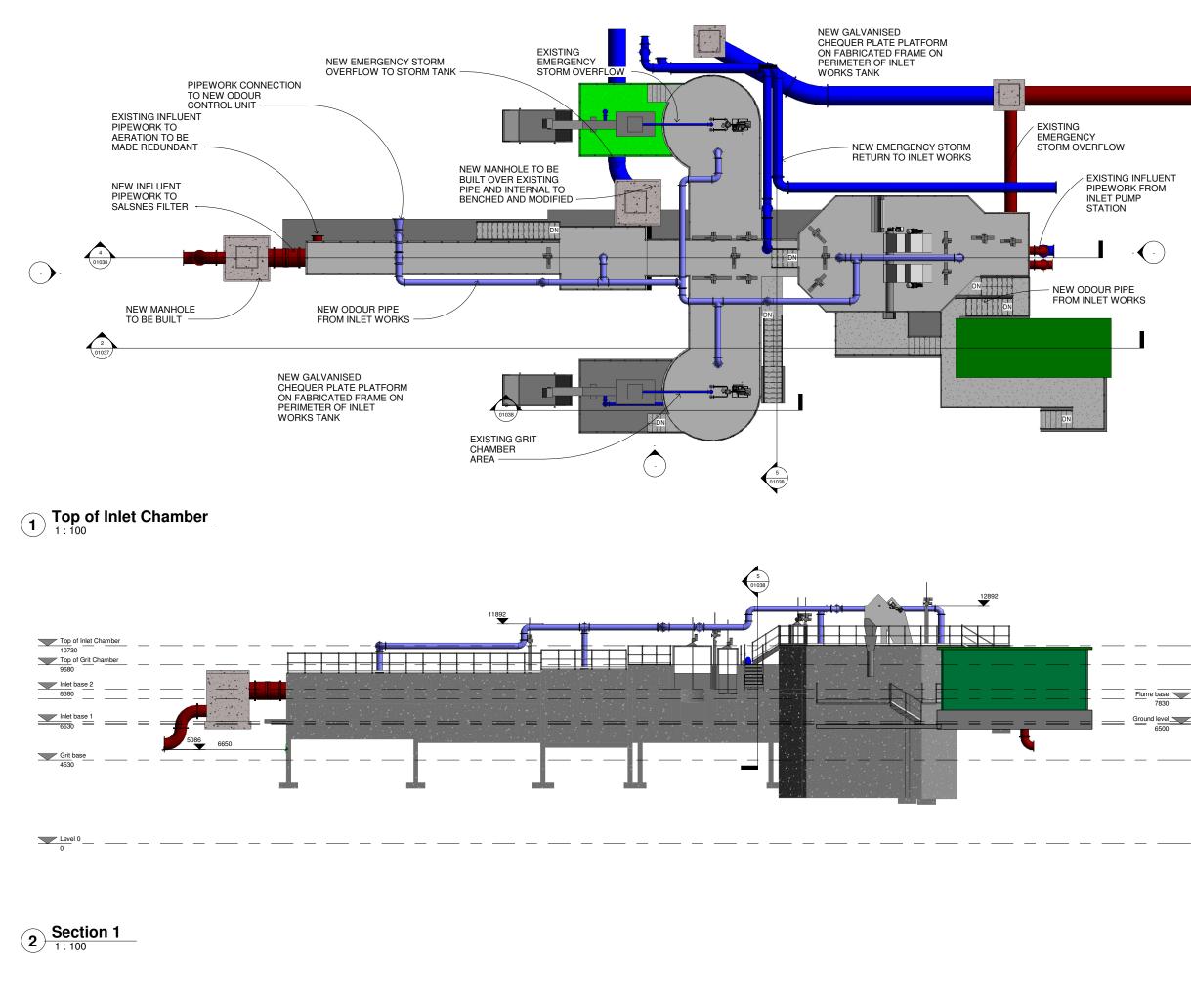
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C01	A1	ISSUED FOR EI				PJ		
	A1 Suit:		AR ion Descr	intion		PJ Checked:	28-02-23 Date:	
Client	:	JISCE IREANN : IRISH WATER	Colvill I	louse albot St	Intl:-	1890 278 +353-1-70 ail:info@w o:www.wa	278 17 2828 ater.ie	
Proje		ASTLETI TREA					1	
J 0 0 0	Clients Representative: J. B. Barry and Partners Limited Consulting Engineers Classon House Dundrum Rusiness Park Dundrum Road Dublin 14							
Drawr	n By:	LHA		Date:	06/12	2/22		
Check	ked By	r: PH		Date:	06/12	2/22		
Appro	ved b	y: PJ		Date:	06/12	2/22		
Intern		ject No. 701-JBB-00-XX-	DR-Z	Stage		EIA	R	
Drawing Title: EXISTING FINAL EFFLUENT OUTLET CHAMBER PLAN AND SECTIONS								
Scale	s:	1:						
	ng No 7 <b>01-</b>	JBB-00-XX		iheet No: 0103	6	Revision: C01	Suitability	



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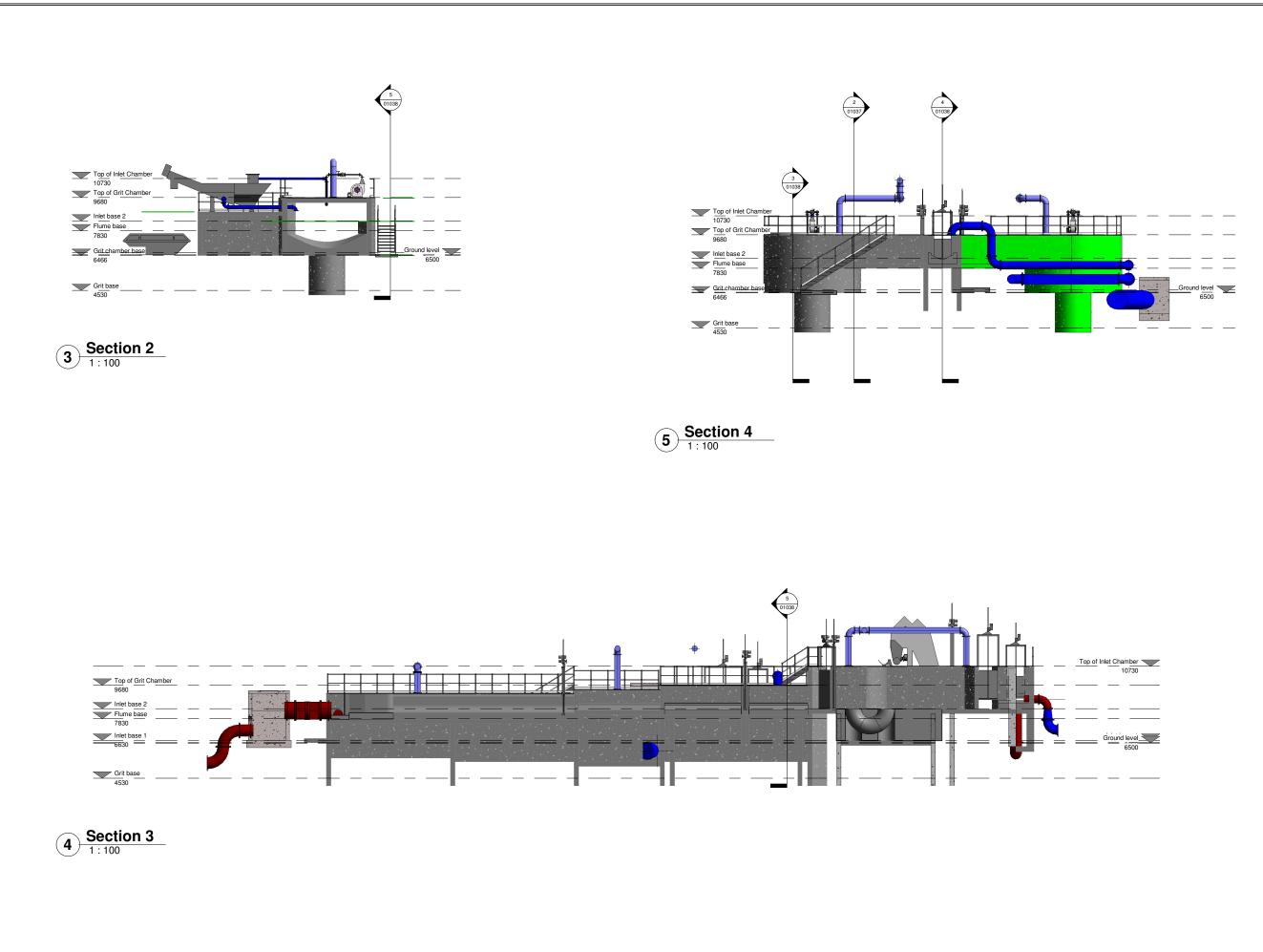
IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND LEVELS PRIOR TO COMMENCEMENT OF CONSTRUCTION.



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## C01 A1 ISSUED FOR EIAR Rev: Suit: Revision 28-02-22 d: Date Tel:1890 278 278 Intl:+353-1-707 282 email:info@water.ie Web:www.water.ie JISCE VATER CASTLETROY WASTEWATER TREATMENT PLANT ients Rep J. B. Barry and Partners Limited Consulting Engineers Tel: +353 1 485 1400 email: info@jbbarry.ie web: www.jbbarry.ie Classon House Dundrum Business Park Dundrum Road Dublin 14 Drawn By: LHA Date: 06/12/22 PH Date: 06/12/22 Checked By: Approved by: PJ Date: 06/12/22 nternal Project No. 20701-JBB-00-XX-DR-Z-Stage EIAR rawing Title MODIFICATIONS TO EXISTING INLET WORKS PLAN LAYOUT AND SECTION 1:100 20701-JBB-00-XX-DR-Z- 01037 C01

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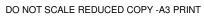
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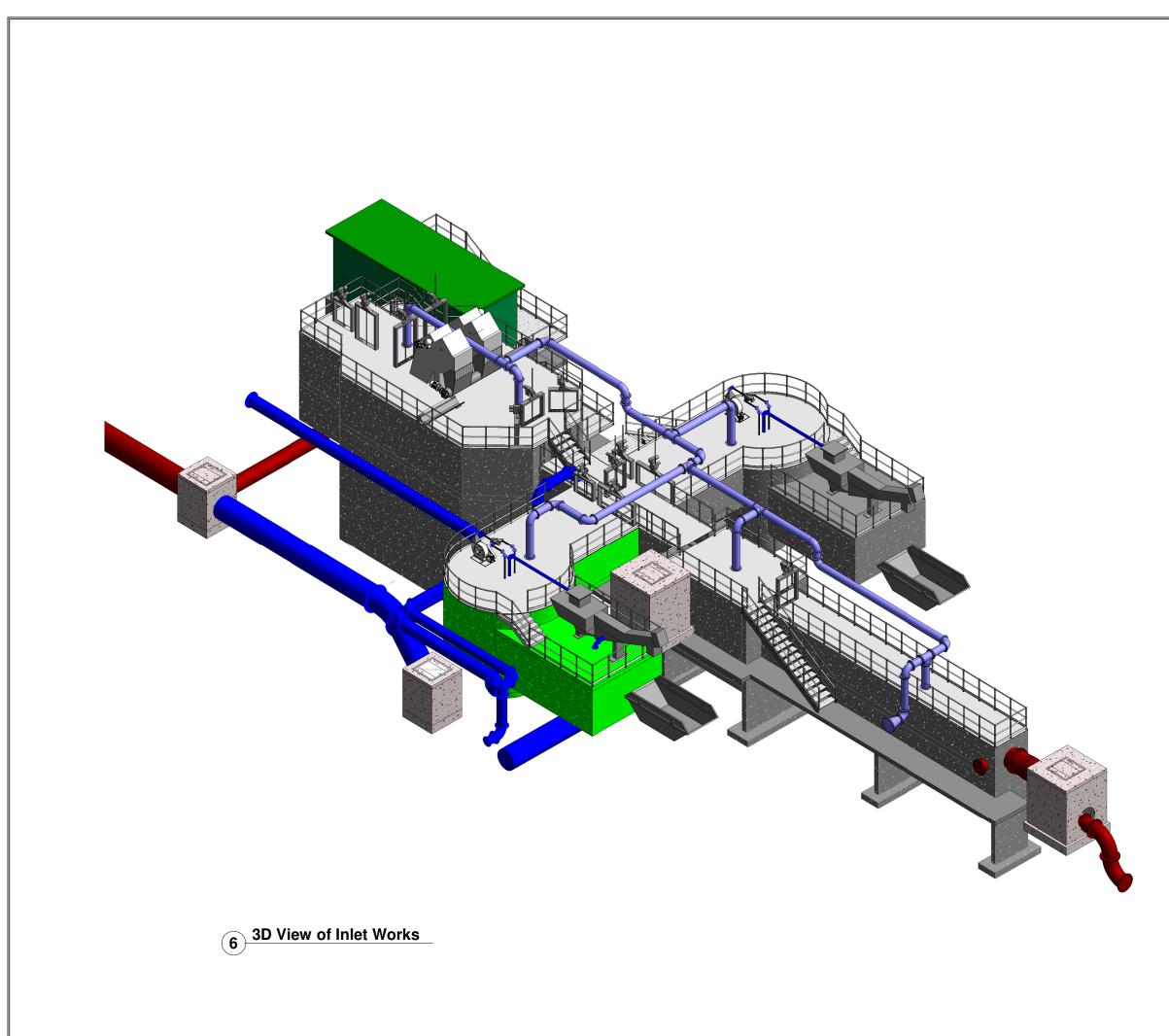
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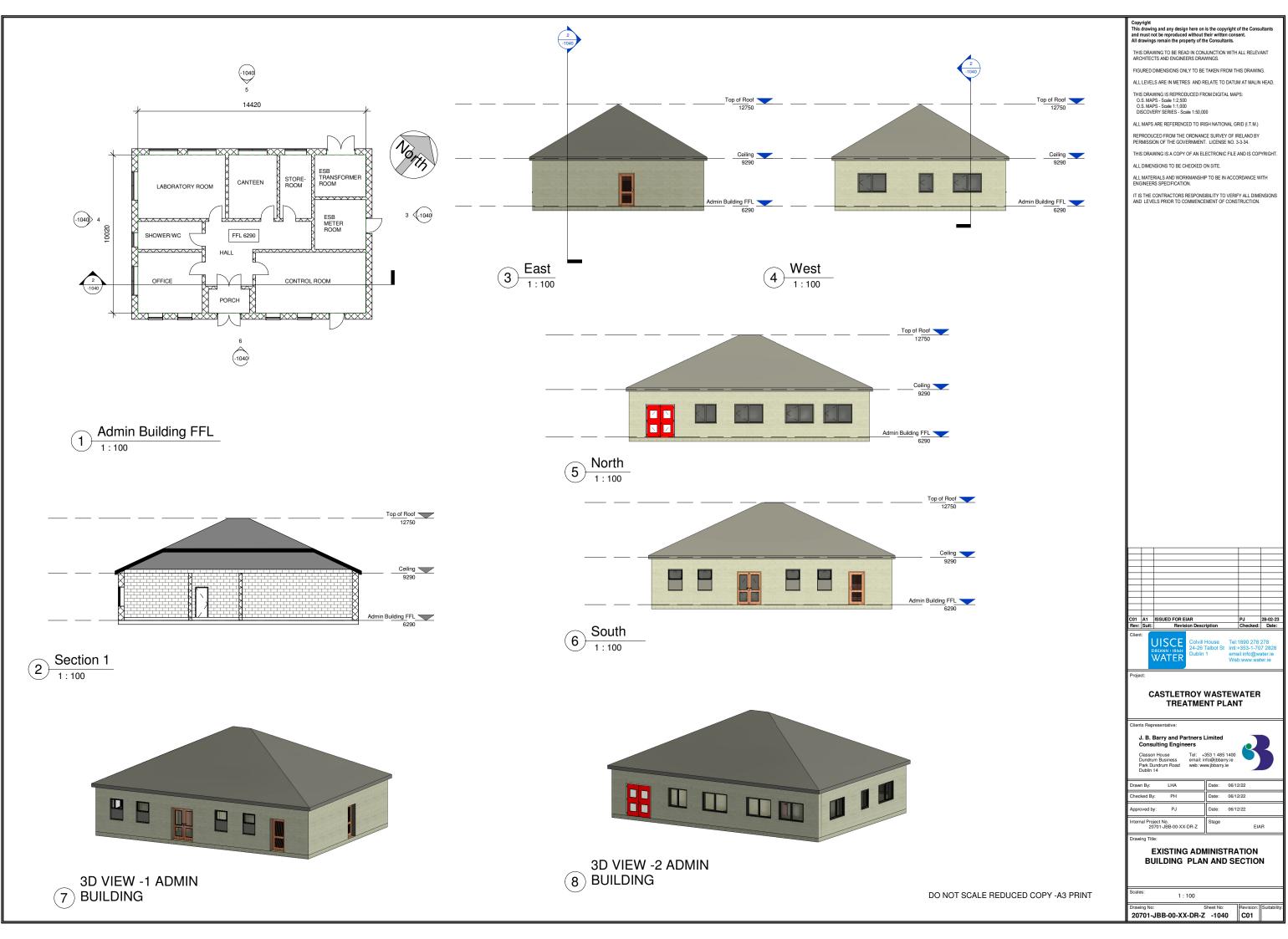
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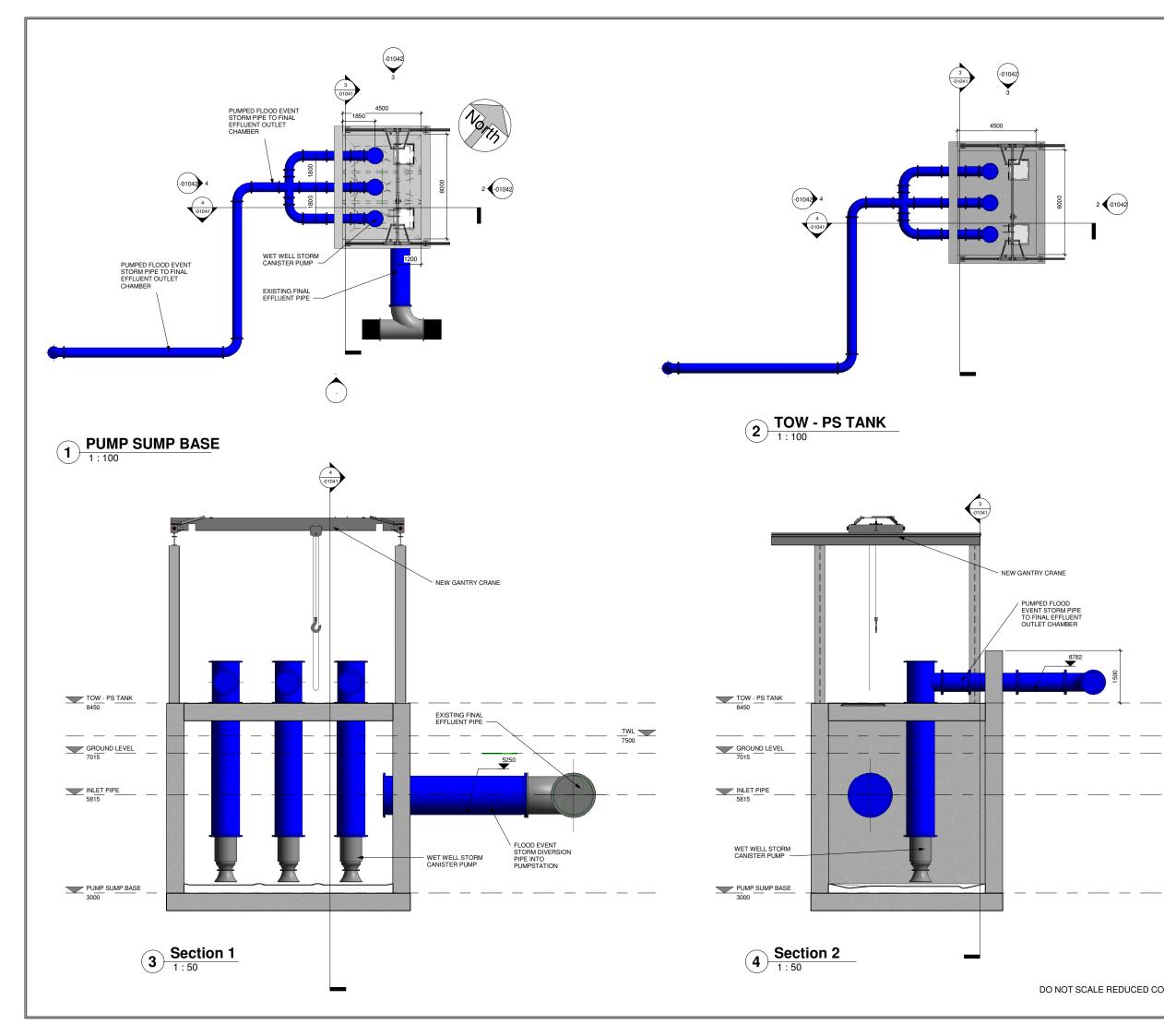




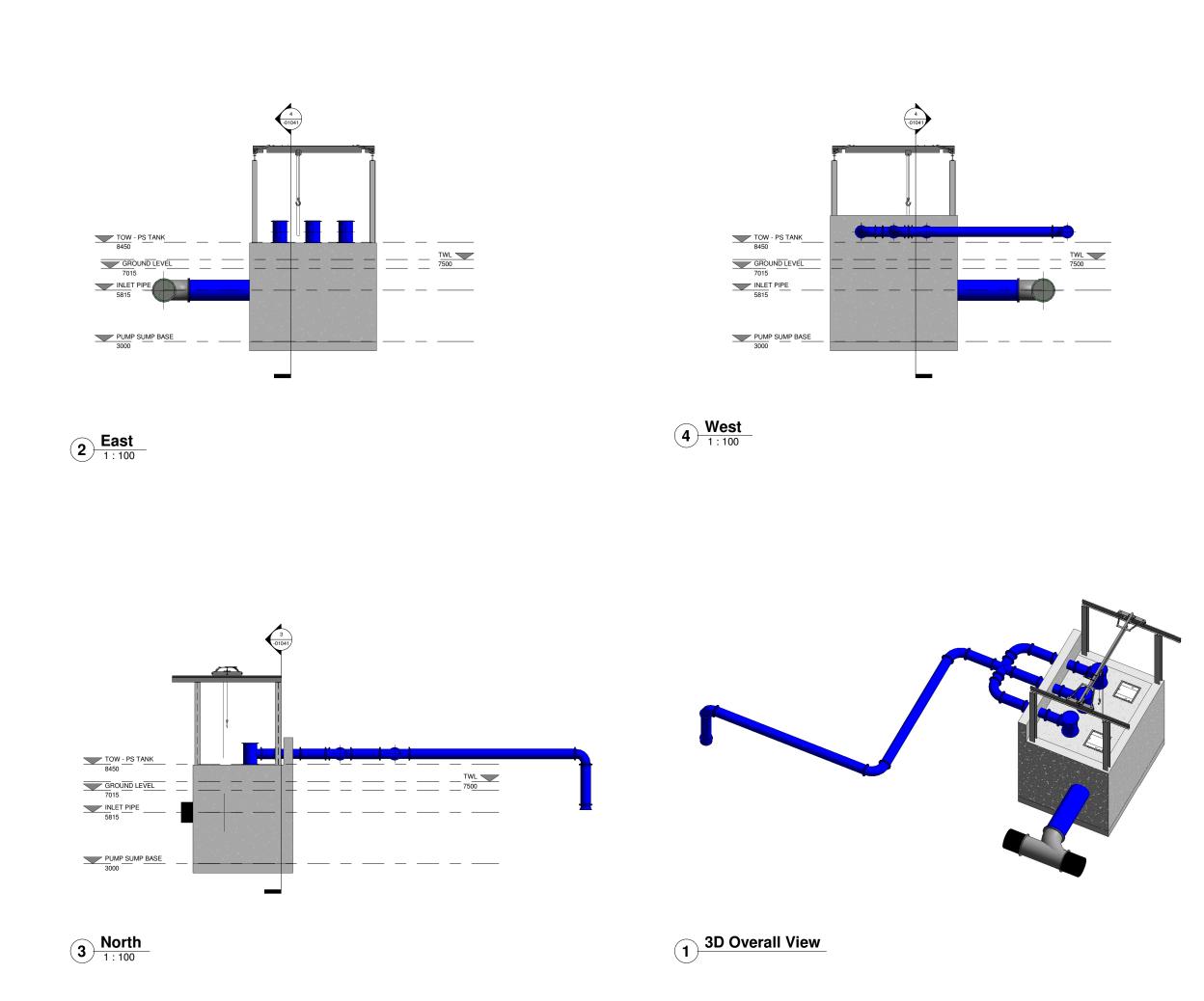
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		House Tel:1890 278 278 Falbot St Intl:+353-1-707 2828
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	Clients Representative: J. B. Barry and Partners L	imited
	Consulting Engineers	
	Dundrum Business email: in Park Dundrum Road web: ww	853 1 485 1400 fo@jbbarry.ie w.jbbarry.ie
	Dublin 14	
	Drawn By: LHA Checked By: PH	Date: 05/04/22 Date: 05/04/22
	Approved by: PJ	Date: 05/04/22
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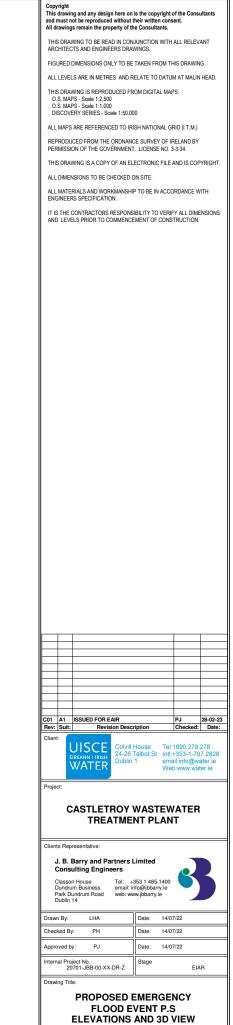
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	Clients Representative:	
	J. B. Barry and Partners I Consulting Engineers	-imited
	Classon House Tel: +- Dundrum Business email: ir	353 1 485 1400 Ifo@jbbarry.ie w.jbbarry.ie
	Drawn By: LHA	Date: 06/12/22
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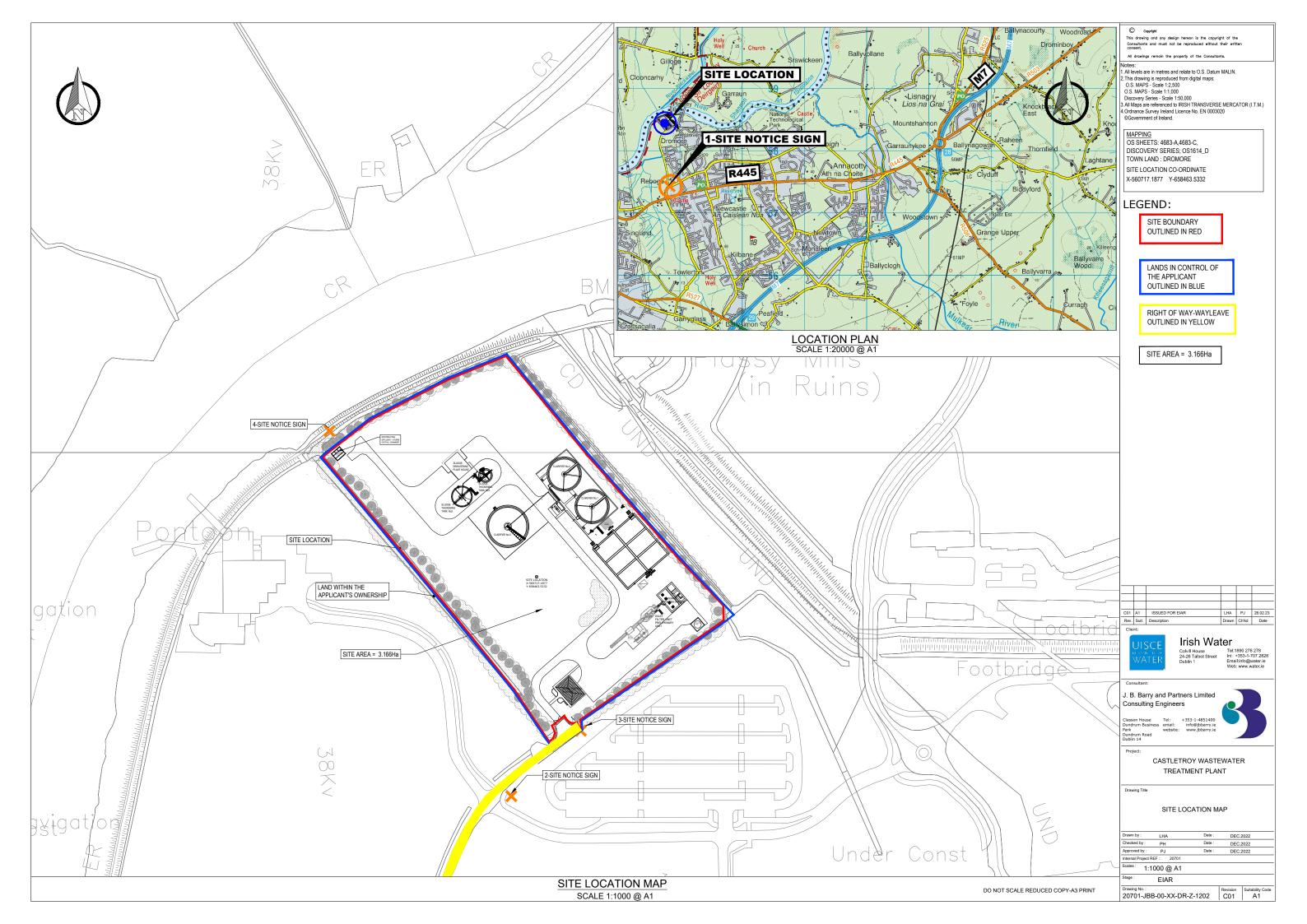




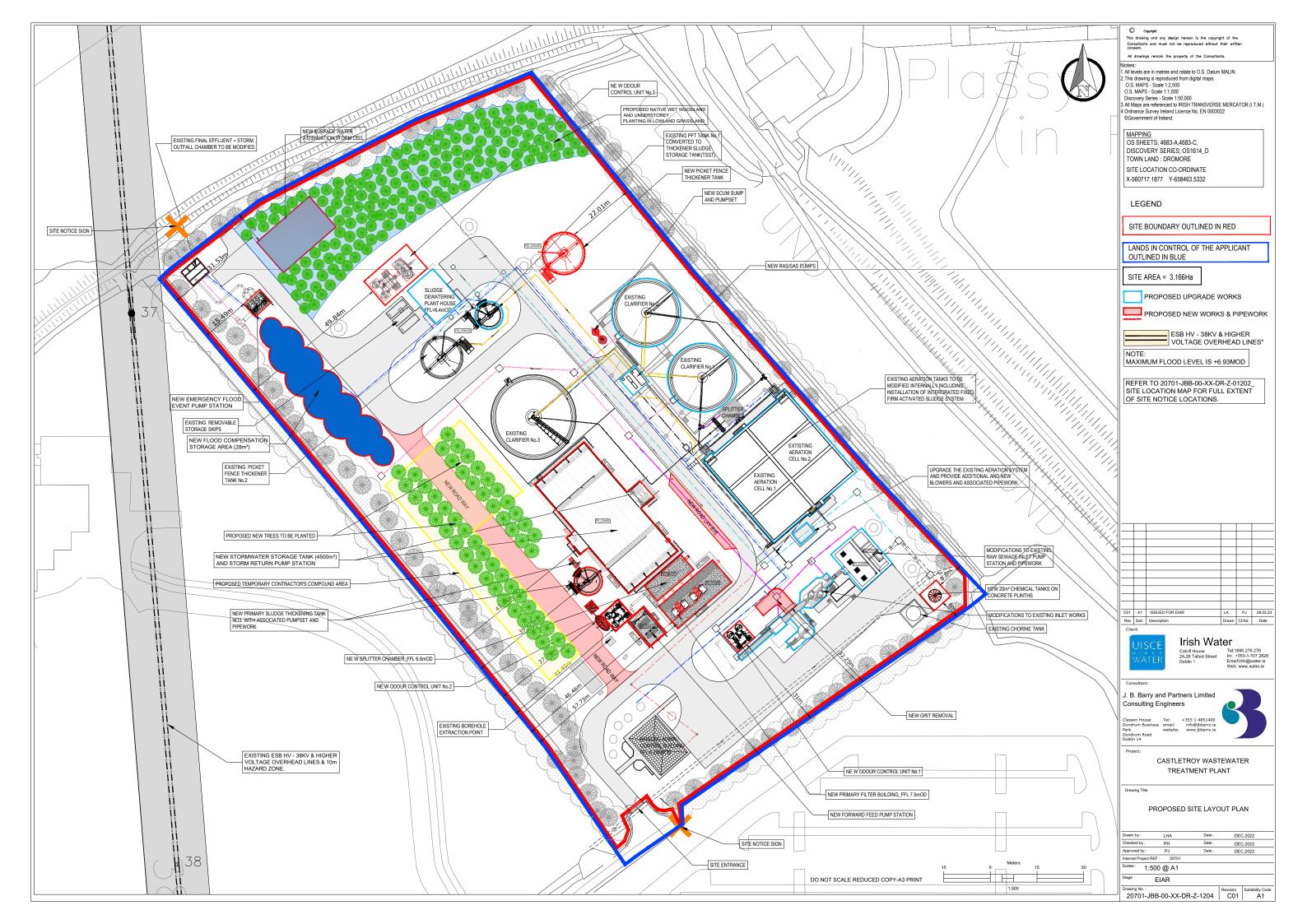
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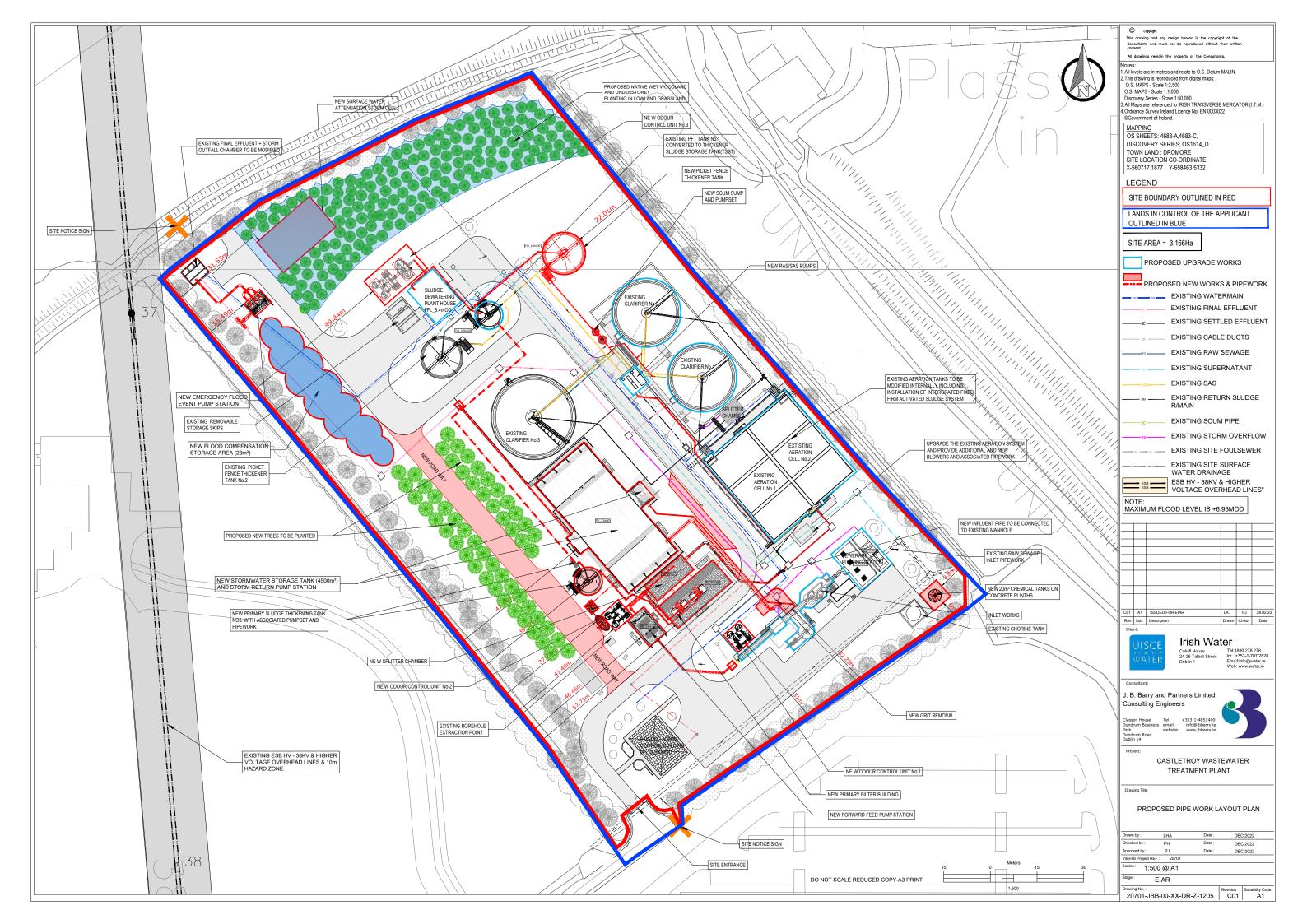
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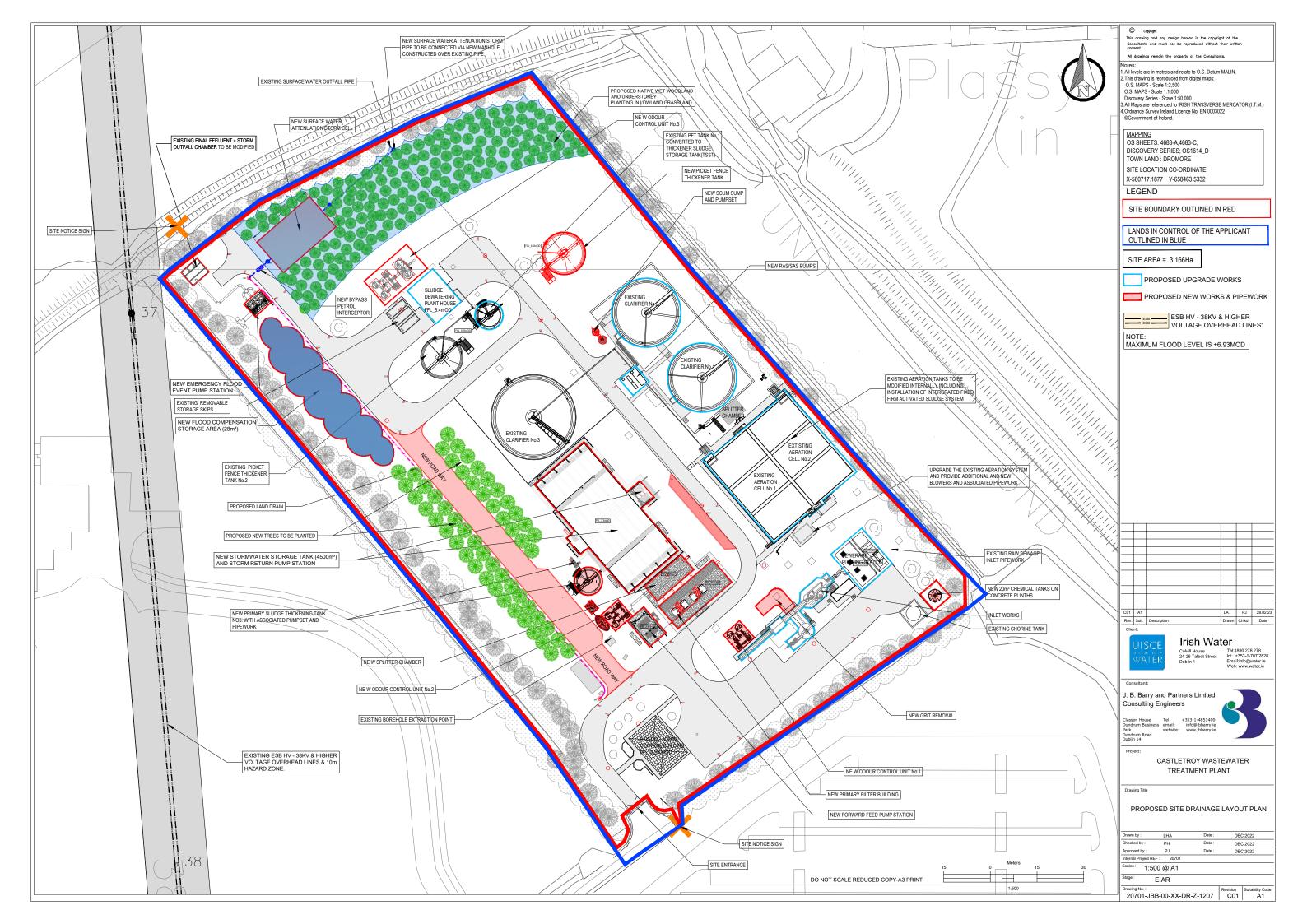
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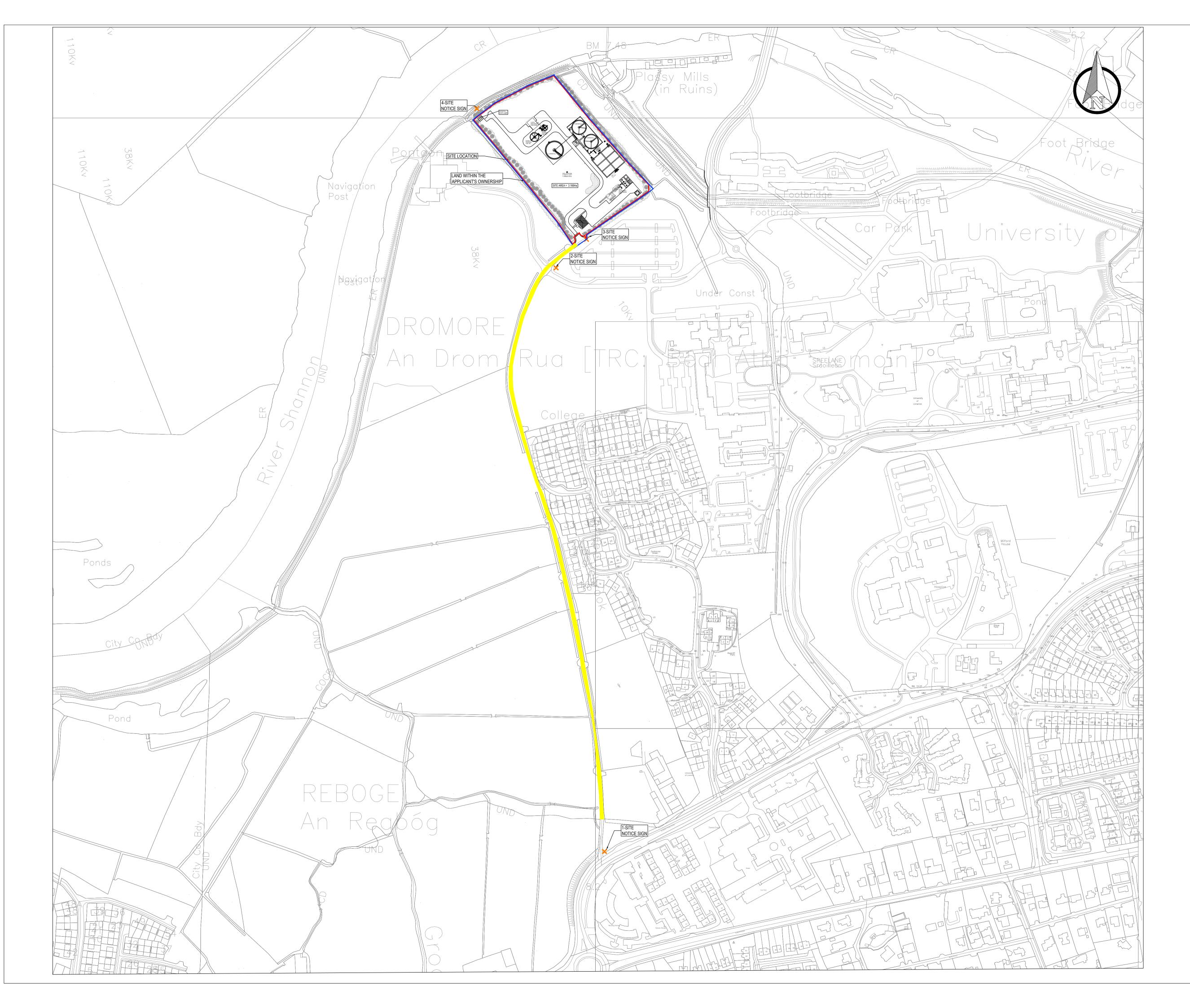












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<sup>Consultant:</sup> J. B. Barry and Partners Consulting Engineers	s Limited	-			
Classon House Tel: +35 Dundrum Business email: in	3-1-4851400 fo@jbbarry.ie ww.jbbarry.ie				
Project: CASTLETRO TREATM	OY WASTE ENT PLAN		ER		
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Drawn by :     LHA       Checked by :     PH       Approved by :     PJ	Date : Date : Date :	FE	B.2023 B.2023 B.2023		
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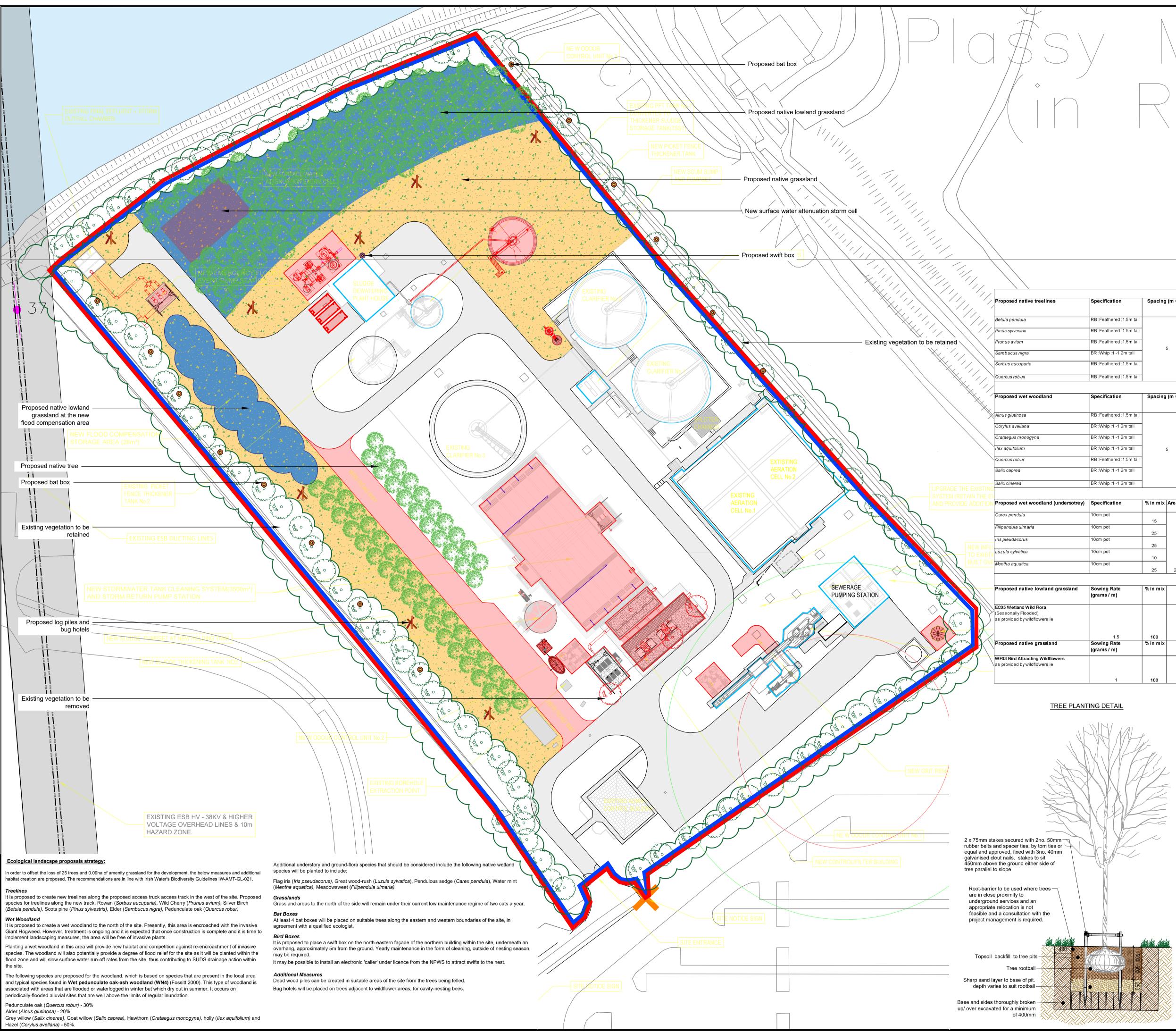
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Client	1	JISCE IREANN : IRISH WATER	Colvill I 24-26 T Dublin	albot St	Intl:+ ema	1890 278 -353-1-70 il:info@wa o:www.wat	7 2828 ater.ie		
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## LEGEND



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EXISTING TREES TO BE RETAINED

EXISTING TREES TO BE REMOVED

EXISTING VEGETATION TO BE RETAINED AROUND THE SITE BOUNDARY

PROPOSED NATIVE TREE AT THE TREELINES AND WET WOODLAND (53 No.)

PROPOSED NATIVE WET WOODLAND AND UNDERSTOREY PLANTING IN LOWLAND GRASSLAND (2,833 sq.m.) PROPOSED NATIVE LOWLAND GRASSLAND AT NEW FLOOD COMPENSATION AND NORTHERN AREA (3,521 sq.m.)

PROPOSED NATIVE GRASSLAND (4,826 sq.m.)

PROPOSED SWIFT BOX - INDICATIVE LOCATION

PROPOSED BAT BOX - INDICATIVE LOCATION

PROPOSED LOG PILES AND BUG HOTELS

B         Comments         Total no.         The status of the s			ום							
B     Feathered 15m tail B     10     To be planted ingroup of three of hese are precises any to kept aw precises any tokept aw precises any to kept aw precises any tokept aw pre	pecification	Spacing				Comments	Establishment	Management year 1.5 -5		
Image         Image <th< td=""><td>peomoution</td><td>opaoniy</td><td></td><td>Total</td><td></td><td></td><td>Maintenance Period 18</td><td>management year 1.0 -0</td></th<>	peomoution	opaoniy		Total			Maintenance Period 18	management year 1.0 -0		
B Feathered 1.5m Iail 3 Whip 1:1 2m Iail 5 Feathered 1.5m Iail 6 Feathered 1.5m Iail 7 Real-readed 1.5m	B :Feathered :1.5m tall			10			, , , , , ,			
B Feathered 1.5m tail	B :Feathered :1.5m tall			10			Monthly tasks:	necessary to be kept away		
3         Min:: 1-1 2m tail         4         Mase weaking during day weaking day weakin	B :Feathered :1.5m tall		5	10		1	checked, rejected and removed	-Tree ties and staking to be		
B - Reathered -1.5m tail     Spacing (m CTR)     Total no.     Comments     Establishment     Management year 1.6 Maintenance Period Banomitik     Management year 1.6       B - Feathered -1.5m tail     5     22     Total no.     Comments     Establishment     Management year 1.6 Maintenance Period Banomitik     Every 3 years: 	R :Whip :1 -1.2m tall	5		4		-	-Water weekly during dry	management period, if the		
B-Reathered :1.5m tail Total Spacing (m CTR) Total no. Feathered :1.5m tail R-mathered :	B :Feathered ∶1.5m tall			10			-Weed removal at base of tree			
Spacing (m CTR)         Total no.         Comments         Establishment Maintenance Period 18 months         Management year 1.f. Maintenance Period 18 months           B Feathered 1.5 m tail 3 Whip 1-1.2 m tail 5 Total:         22         To be planted in groups species         Defective (ded or dyng) plants be repared after year 1. Monthy tasks: -Trees takes flus to be decked, rejected and removes weather weather weather weather weather -Fertilise at base of tree         Total sharp t removes at starp t removes at starp t removes at starp t weather weather weather weather -Fertilise at base of tree         Management year 1. Monthy tasks: -Trees takes flus to be removes at starp t removes at starp t removes at starp t removes at starp t weather -Veel removal at loss of tree         Total starp removes at starp t removes	B :Feathered :1.5m tall			10						
B Feathered 1.5 m tail         22         To be planted in groups of three of the same species         Deficition (mean one Period 18 months)         Even 3 years (Trees to be pruned and reg year 1, 1) (Trees to prune reg year and reg year 1, 1) (Trees to prune reg year and reg year 1, 1) (Trees to prune reg year and reg year 1, 1) (Trees to prune reg year and reg year 1, 1) (Trees to prune reg year and reg year 1, 1) (Trees to prune reg year and reg year 1, 1) (Trees to prune reg year and reg year 1, 1) (Trees to prune reg			Total:	54						
2. Whip 1-12m tail     12     of three of the same species     b be repaced after year 1. Monthly tasks:	pecification			Total	no.	Comments	Maintenance Period 18	Management year 1.5 -5		
3. Whip 1-1.2m tail     12     Monthly tasks     Monthly tasks     Increases ary to be kept average of the top and the to	B :Feathered :1.5m tall			22						
3: Whip: 1-1.2m tail         5         12	R :Whip :1 -1.2m tall			12			Monthlytasks	necessary to be kept away		
3: Whip: 1:1.2m tail     5     12	R :Whip :1 -1.2m tall			hip :1 -1.2m tall		12			checked, rejected and removed	-Tree ties and staking to be
3 Feathered :1.5m tail     34     -Wead removal at base of tree     -Bestablishment       3.4     11	R :Whip :1 -1.2m tall			12		-	-Water weekly during dry weather -Weed removal at base of tree	management period, if the tree are properly		
11       11         3:Whip 1-1.2.m tail       11         11       11         125       25         100       3521       528         15       100       3521       528         15       100       3521       528	B :Feathered :1.5m tall			34		-				
Total:       Total:       114         pecification       % in mix       Area (m2)       Planting density       Total no.         Dom pot       15       25       263       708       708         Dom pot       25       25       1       708       283         Dom pot       25       2833       708       2834         Dom pot       25       2833       708       Management year 1.5         Total:       2834         Total:       Zaga         Total:       Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"         Total:	R :Whip :1 -1.2m tall						-Fertilise at base of tree			
pecification       % in mix       Area (m2)       Planting density (plants' m2)       Total no. (plants' m2)         Jorm pot       15       425         Jorm pot       25       708         Jorm pot       25       708         Jorm pot       25       2833         Jorm pot       25       2834         Jorm pot       25       2834         Jorm pot       25       2834         Jorm pot       25       2834         Jorn pot       3521       528         Jorn pot       3521       528         Jorn pot       252       528	R :Whip :1 -1.2m tall									
pecification       % in mix       Area (m2)       Planting density (plants' m2)       Total no. (plants' m2)         Jorm pot       15       425         Jorm pot       25       708         Jorm pot       25       708         Jorm pot       25       2833         Jorm pot       25       2834         Jorm pot       25       2834         Jorm pot       25       2834         Jorm pot       25       2834         Jorn pot       3521       528         Jorn pot       3521       528         Jorn pot       252       528			Total:	114	Ļ					
15     15       Jorn pot     25       Jorn pot     25       Jorn pot     25       Jorn pot     10       Jorn pot     10       Jorn pot     25       Jorn pot     10       Jorn pot     25       Jorn pot     26       Jorn pot     27       Jorn pot     283       Jorn pot     26       Jorn pot     26       Jorn pot     27       Jorn pot     283       Jorn pot     26       Jorn pot     27       Jorn pot     283       Jorn pot     26       Jorn pot     27       Jorn pot     283       Jorn pot     26       Jorn pot     26       Jorn pot     26       Jorn pot     27       Jorn pot     283       Jorn pot     26       Jorn pot     27       Jorotal Area     528       Jorotal No.		% in mix	Area (m2)		Total no.					
25     26     1     708       Jorn pot     25       Jorn pot     10       Jorn pot     10       Jorn pot     25       Jorn pot     26       Jorn pot     25       Jorn pot     26       Jorn pot     10       Jorn pot     10       Jorn pot     10       Jorn pot     10       Jorn pot     3521       Jorn pot     5.28       Jorn pot     100       Jorn pot     3521       Jorn pot     5.28       Jorn pot     100	Dom pot	15			425					
25       25       1       708         Jorm pot       10       263       283         Jorm pot       25       2833       708         Jorm pot       25       2833       Total Area (m2)       Total No. (kg)       Comments       Establishment Maintenance Period 18 months       Management year 1.5         owing Rate grams / m)       % in mix       Total Area (m2)       Total No. (kg)       Comments       To be rolled with Cambridge roller after sow cut 2-3 time in year 1       Cut 1-2 times per year a required         1.5       100       3521       5.28       Sown on retained existing topsoil. If grasses are present, reduse to ground level to plant guidelines to achieve full sward       Management year 1.5         owing Rate grams / m)       % in mix       Total Area (m2)       Total No. (kg)       Comments       Establishment Maintenance Period 18       Management year 1.5         owing Rate grasses are present, reduse to ground level to plant guidelines to achieve full sward       Cut 1-2 times per year a required       Cut 1-2 times per year a required       Cut 1-2 times per year a required	Dcm pot	25			708					
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Dom pot       25       2833       708         Total:       2834       2834         owing Rate rams / m)       % in mix       Total Area (m2)       Total No. (kg)       Comments       Establishment Maintenance Period 18 months       Management year 1.5         1.5       100       3521       5.28       to be sown on retained existing topsoil. If grasses are present, reduse to ground level to Follow all Ireland pollinator plant guidelines to achieve full sward       Cut 1-2 times per year a required         1.5       100       3521       5.28       Total No. (kg)       Comments       Establishment Maintenance Period 18 months       Cut 1-2 times per year a required         0wing Rate rams / m)       % in mix       Total Area (m2)       Total No. (kg)       Comments       Establishment Maintenance Period 18       Cut 1-2 times per year a required         1.5       100       3521       5.28       Total No. (kg)       Comments       Establishment Maintenance Period 18       Management year 1.5         owing Rate rams / m)       % in mix       Total Area (m2)       Total No. (kg)       Comments       Establishment Maintenance Period 18       Cut 1-2 times per year a required         redues to ground level to Follow all Ireland pollinator       fol be sown on retained existing topsoil. If grasses are present, redues to ground level to Follow all Ireland pollinator       Cut 1-2 times per year a r	Dcm pot				283					
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Checked: COF	14/12/2022	Approved: Scale:	1:500 @ A1	14/12/20
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