

NOTES

1. Dimensions are not to be scaled from drawing. For any discrepancies found consult with the design office.
2. This drawing is to be read in conjunction with the Specification.
3. This drawing is to be read in conjunction with all other contract drawings.

No.	Date	Drawn/Survey/Checked	Revision Description

Cork County Council,
Northern Division.

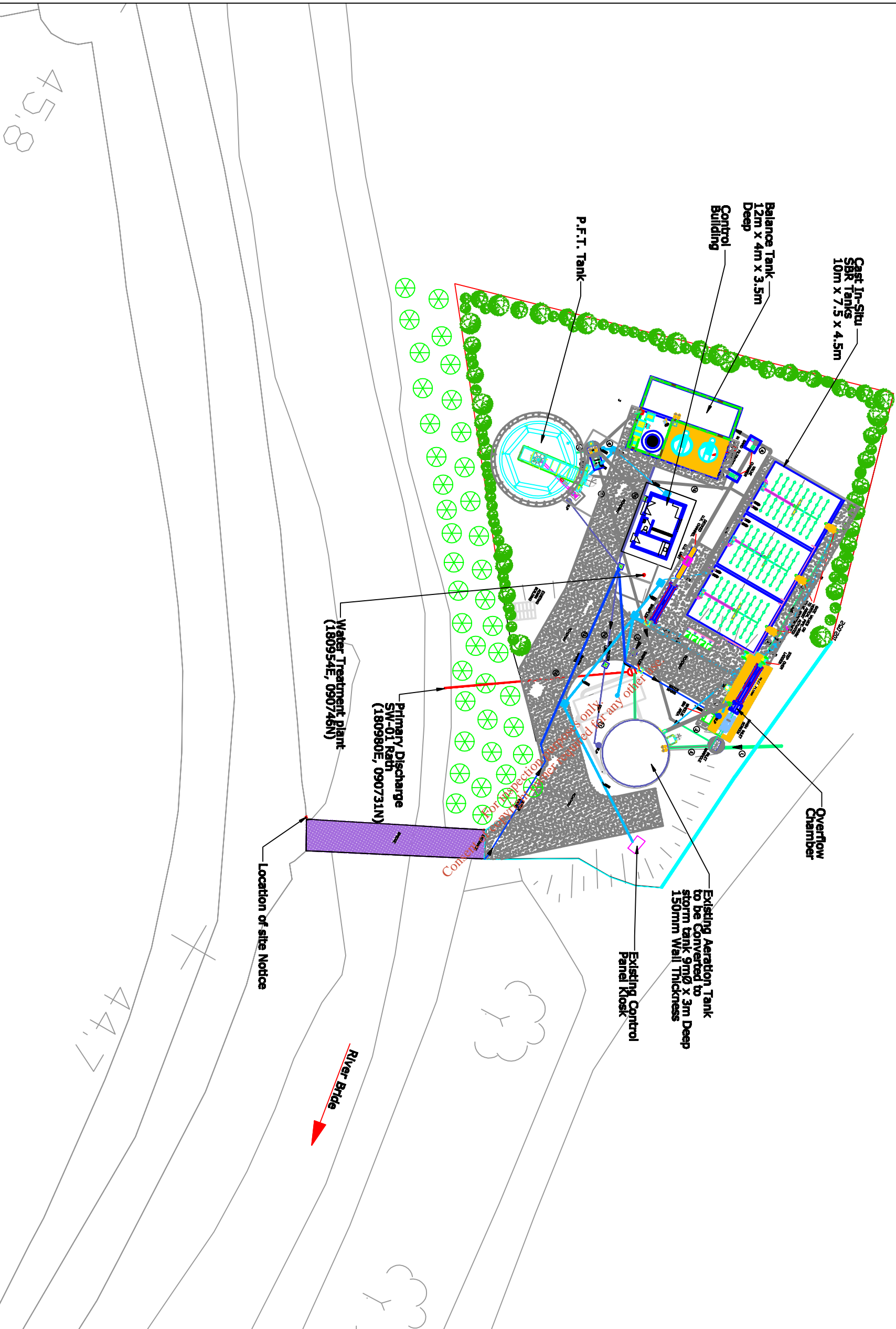
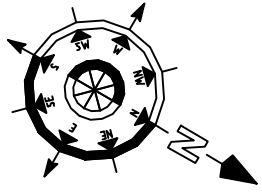


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COUNTY HALL,
CORK.

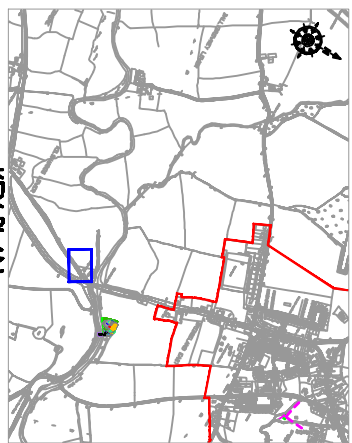
Job Title:
**Rathcormack & Environs
Wastewater Discharge
Licence Application**

Drawing Title:
**Agglomeration Boundary
Attachment B1 - Map 5**

Scale: AS1000 @ A3	Surveyed by: DL	Drawn by: DL
Designed by: P.J.	Checked by: P.C.	Date: August 2008
Drawing number: B1 - Map 5	Rec:	-



- NOTES**
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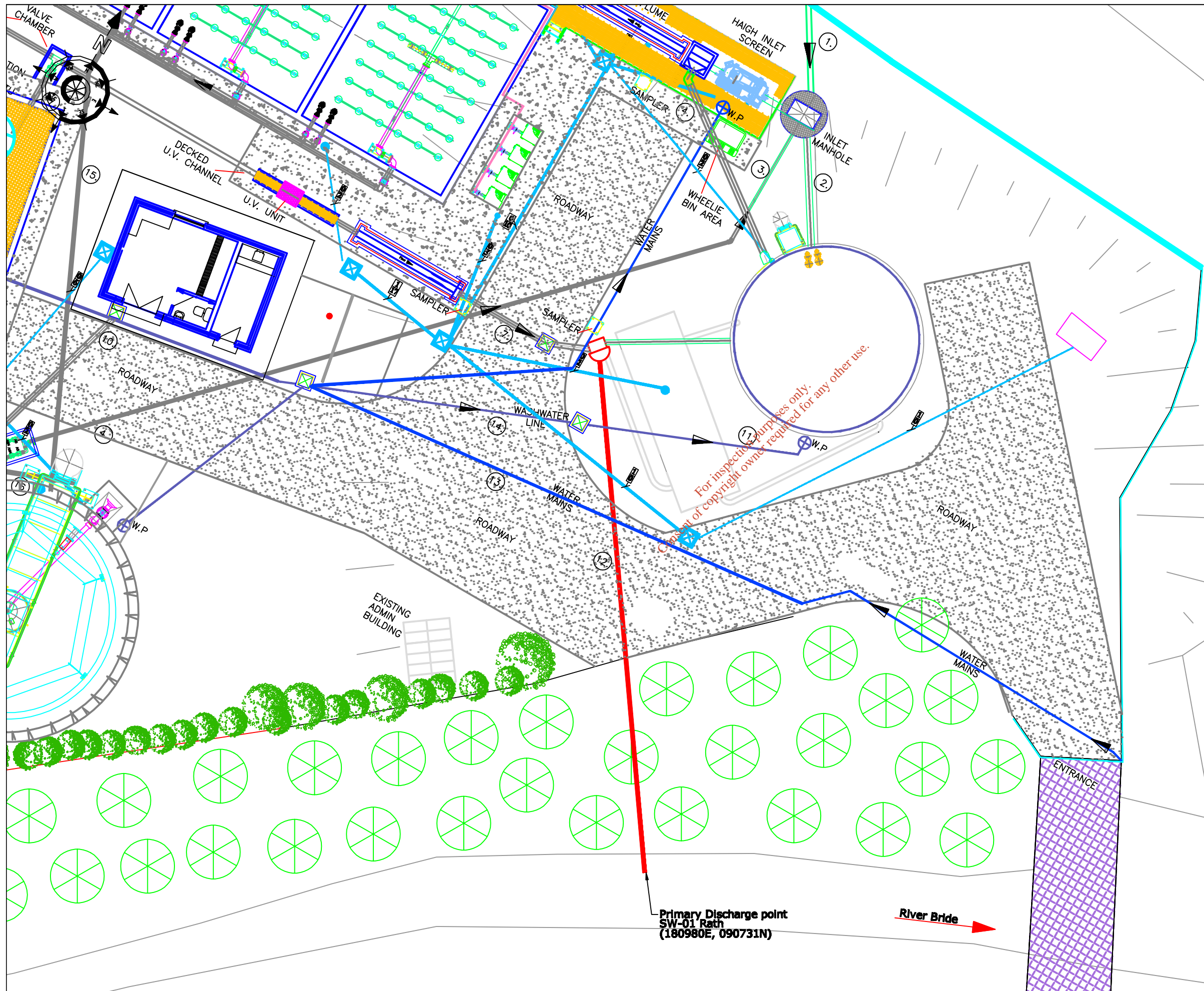
Job Title:
**Rathcormack & Environs
Wastewater Discharge
Licence Application**

Drawing Title:
**Location of Waste Water
Treatment Plant
Attachment B2 - Map 6**

Scales:	1:500 @ A3	Drawn by:	DL
Designed by:	P.J.	Checked by:	P.C.
Drawing number:	B2 - Map 6	Date:	August 2008

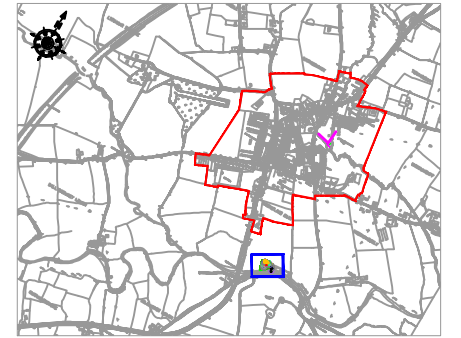
45.8

44.7



NOTES

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KEY PLAN

No.	Date	Drawn	Surv	Chkd	Revision	Description

Cork County Council,
Northern Division.

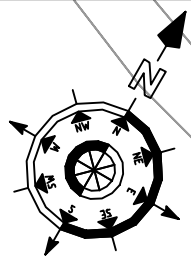
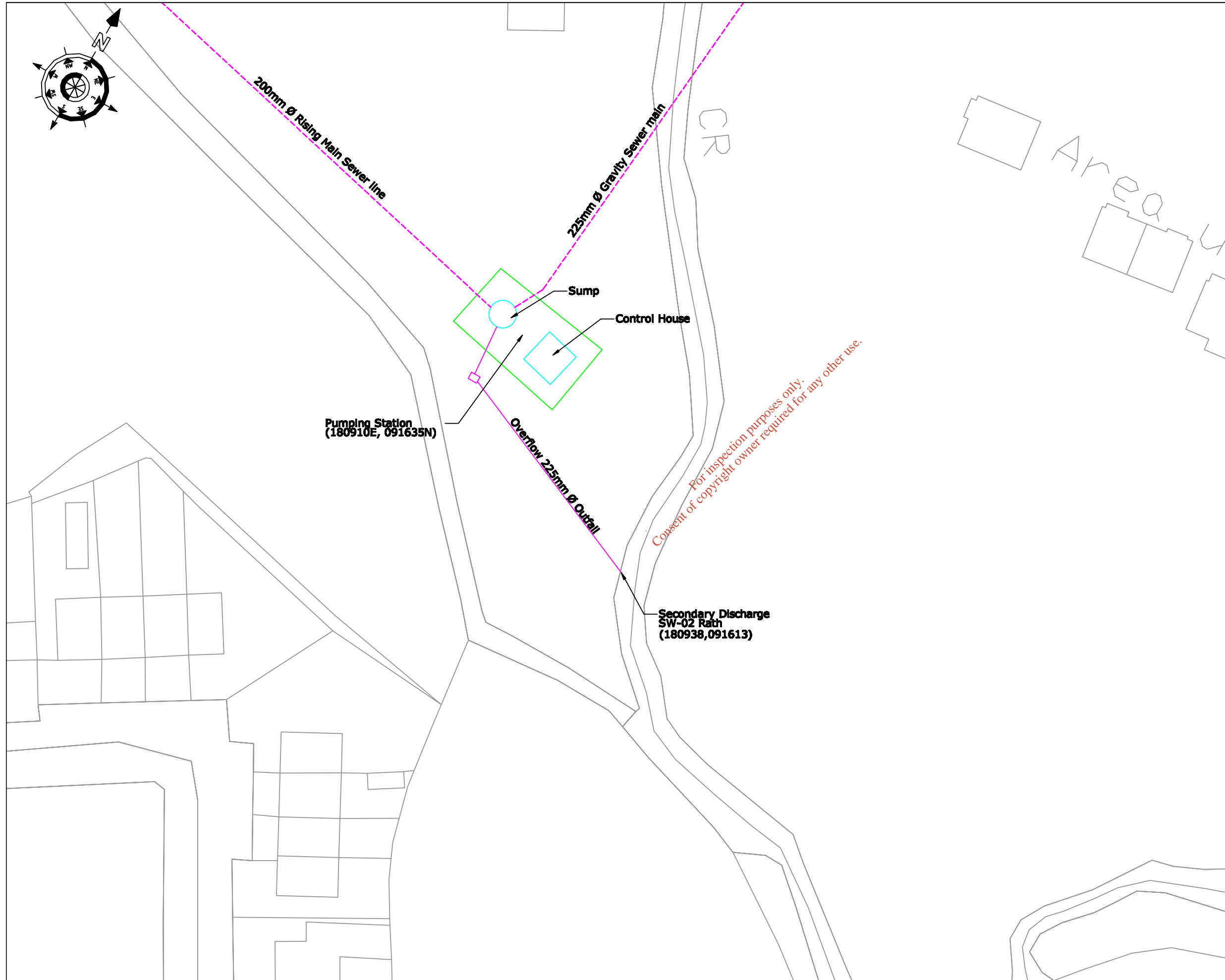


N. O'KEEFE, B.E.,
A/COUNTY ENGINEER,
COUNTY HALL,
CORK.

Job Title:
**Rathcormack & Environs
Wastewater Discharge
Licence Application**

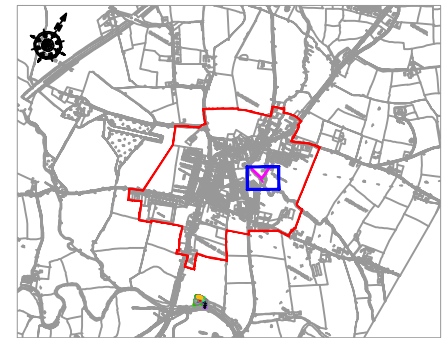
Drawing Title:
**Location of Primary Discharge
Point SW01 - Rath
Attachment B3 - Map 7**

Scales: 1:500 @ A3	Surveyed by: D.L.	Drawn by: D.L.
Designed by: F.J.	Checked by: F.C.	Date: August 2008
Drawing number: B3 - Map 7	Rev: -	



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KEY PLAN

No.	Date	Drawn	Surv	Chkd	Revision	Description

Cork County Council,
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A/COUNTY ENGINEER,
COUNTY HALL,
CORK.

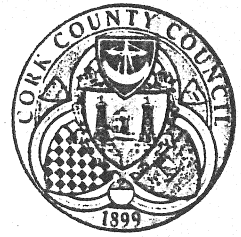
Job Title:
**Rathcormack & Environs
Wastewater Discharge
Licence Application**

Drawing Title:
**Location of secondary Discharge
SW - 02 Rath
Attachment B4 - Map 8**

Scales: 1:500 @ A3	Surveyed by: D.L.	Drawn by: D.L.
Designed by: F.J.	Checked by: F.C.	Date: August 2008
Drawing number: B4 - Map 8	Rev:	-

Comhairle Contae Chorcaí Cork County Council

County Hall,
Cork, Ireland.
Tel: (021) 4276891 • Fax: (021) 4276321
Web: www.corkcoco.ie
Halla an Chontae,
Corcaigh, Éire.
Fón: (021) 4276891 • Faics: (021) 4276321
Suíomh Gréasáin: www.corkcoco.ie



Ms. June Whyte,
Water Services Department,
Cork County Council,
Annabella,
Mallow,
Co. Cork.

Direct Dial: 021-4285580
Email: helen.bowman@corkcoco.ie

27th May, 2008.

Re: Report under Article 179(3)(b) of the Planning & Development Act, 2000
Report under Article 81 of the Planning & Development Regulations 2001

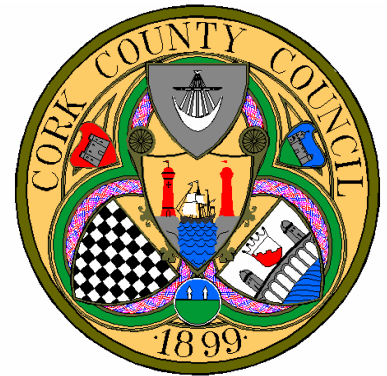
- (a). Proposed additional car park spaces at New Street, Buttevant, Co. Cork.
- (b). Upgrading of Existing Wastewater Treatment Plant with associated site works at Bridgeland East, Rathcormac, Co. Cork.

I refer to your email dated 19th May, 2008, in connection with the above.

At the meeting of Cork County Council held on 26th May, 2008, the recommendations of the Northern Committee were approved.

MAURICE MANNING,
SENIOR EXECUTIVE OFFICER.

Comhairle Chontae Chorcaí Cork County Council



PLANNING & DEVELOPMENT ACT 2000
PLANNING & DEVELOPMENT REGULATIONS 2001
PLANNING & DEVELOPMENT REGULATIONS 2006

- PART 8 - PUBLIC CONSULTATION REPORT

Upgrade of Rathcormack Wastewater Treatment Plant

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Public Notice in Compliance with Part XI of the Planning & Development Act
2000 as set down in Part 8 of the Planning and Development Regulations 2001 and
Articles 17 to 19 of the Planning and Development Regulations 2006

January 2008

REVISION CONTROL SHEET

			For & on behalf of Cork Co. Co.		
Revision	Description of Changes	Prepared by	Checked by	Approved by	Date
A	Issued for Planning	B O Sullivan EE	P O Friel SEE	F. Cronin SE	Jan 2008

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UPGRADE OF RATHCORMAC WASTEWATER TREATMENT PLANT

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1.0 INTRODUCTION

This application for planning permission is in respect of the proposed upgrading of the wastewater treatment plant at Bridgeland East, Rathcormack, Co. Cork. Part 8 of the Planning and Development Regulations, 2001 sets out the requirements in respect of specific development by, on behalf of, or in partnership with Local Authorities. The proposal for upgrading of the existing wastewater treatment plant is therefore required to comply with these requirements as set out herein.

2.0 SCHEME BACKGROUND

It is proposed to upgrade the wastewater treatment facilities serving the village of Rathcormack. The existing treatment facilities located at Bridgeland East, Rathcormack are inadequate due to overloading. The village would benefit from improved treatment facilities, as it would allow the village to develop from a socio-economic point of view and the local environment would benefit from a reduced impact from wastewater. This is particularly important given the fact that water is abstracted from the River Bride for drinking water purposes approximately 4 kilometres downstream of the discharge location from the existing wastewater treatment facilities.

3.0 PROPOSED WORK

The village is currently served by a wastewater collection network, which is in good condition. The partially separate collection network serving the village, gravitates from the crossroads on Cannon Street to the existing wastewater treatment plant located at the southern end of the village in the townland of Bridgeland East adjacent to the River Bride. The existing plant was installed in 1997 (replacing a septic tank system) and provides secondary treatment. Access to the existing treatment plant is via a 3.5m wide bridge off of the R626. The existing plant is bounded to the south by mature deciduous trees along the bank of the River Bride and to the east by mature deciduous trees. An additional 0.5 acres have been acquired directly west of the existing treatment plant site to accommodate the upgrading of the treatment works, as the area of the existing site is not sufficient.

The existing population equivalent of Rathcormack village is estimated at 1,600 p.e. The proposed wastewater treatment plant will be designed to cater for a population equivalent of 4,000 persons, which will be adequate to serve all development within the development boundary of the village. The River Bride into which the treated effluent from the upgraded wastewater treatment plant will discharge is a designated river under S.I. 293/1988: European Communities (Quality of Salmonid Waters) Regulations, 1996. An independent study was undertaken by DixonBrosnan Environmental

Consultants to access the assimilative capacity of the receiving waters which recommended that the effluent standard for the wastewater treatment works shall be as outlined in the Table below.

Parameter	Discharge Specification (mg/l)
BOD	10.0
Suspended Solids	15.0
COD	70.0
Phosphorus	1.0 – Total P

There are a number of wastewater treatment systems capable of meeting the final effluent standards proposed for the proposed wastewater treatment plant which include:

- Activated Sludge Extended Aeration
- Rotating Biological Contactors,
- Sequence Batch Reactor

The procurement route for the proposed project will be by a Design and Build contract whereby it is proposed to invite contractors to tender for the design, construction and initial operation of the upgraded plant to the criteria set out by Cork County Council. As water is abstracted from the river Bride for drinking water purposes approximately 4 kilometres downstream of the discharge location, the proposed project shall include for a dual process secondary treatment system, which will minimise disruption to the treatment process in the event of essential maintenance/repair etc. The proposed works will include the provision of the following:

- Inlet works,
- Stormwater detention tank(s),
- Secondary treatment works,
- Sludge holding tank,
- Outlet works,
- Control house,
- Site roads and footpaths,
- Palisade fencing around site etc.

Sections of the existing plant may be incorporated into the upgrading proposals. The wastewater treatment process which will be eventually employed at Rathcormack Wastewater Treatment Plant will be decided during the procurement process. The indicative layout and section through the proposed wastewater treatment plant detailed on the accompanying drawings are based on an Activated Sludge Extended Aeration System.

4.0 ENVIRONMENTAL RESTRICTIONS

The following boundary conditions will apply to the operation of the upgraded wastewater treatment plant:

Odour < 5 odour units/m³ above background (98-percentile)
(At site boundary) < 3 odour units/m³ (95-percentile)

Noise

At night at site boundary < 45 dB(A)
In day at site boundary < 55 dB(A)

5.0 ENVIRONMENTAL IMPACT STATEMENT

S.I. No.93 of 1999, EC (EIA) (Amendment) Regulations 1999 states in the First Schedule Part II that an Environmental Impact Statement is required for “*waste water treatment plants with a capacity greater than 10,000 population equivalent*”

The proposed upgrading of the wastewater treatment plant will be designed to cater for a population equivalent of 4,000 persons. An EIS will therefore not be required as the treatment plant population equivalent is substantially below the threshold required.

6.0 NOTICE OF PROPOSED DEVELOPMENT TO CERTAIN BODIES

S.I. No. 600 of 2001, Planning and Development Regulations, 2001 as amended by S.I. No. 685 of 2006 Planning and Development Regulations, 2006 states that the local authority shall send notice of proposed developments to the listed bodies where relevant.

For the purposes of this proposed development, the following bodies have been deemed relevant from those listed:

- An Taisce – the National Trust for Ireland, Tailors Hall, Back Lane, Dublin 8.
- The Heritage Council, Rothe House, Kilkenny.
- National Monuments Section, Department of Environment, Heritage, and Local Government, Dunsceine, Harcourt Lane, Dublin 2.
- Southern Regional Fisheries Board, Anglesea Street, Clonmel, Co. Tipperary

7.0 IMPACT OF THE SCHEME

The provision of a new and improved wastewater treatment plant at Rathcormack will significantly improve the quality of the effluent to the receiving waters.

The existing plant is bounded to the south by the River Bride and to the east by mature deciduous trees. Mature deciduous trees are located on either side of the River Bride, which screen the treatment works to the south. Landscaping will be provided in order to ensure that the works will merge harmoniously with the surrounding environment. Mature native trees will be provided along the western and northern boundaries at 2m centres as part of the upgrading works to enhance the overall visual appearance and reduce visibility from all directions.

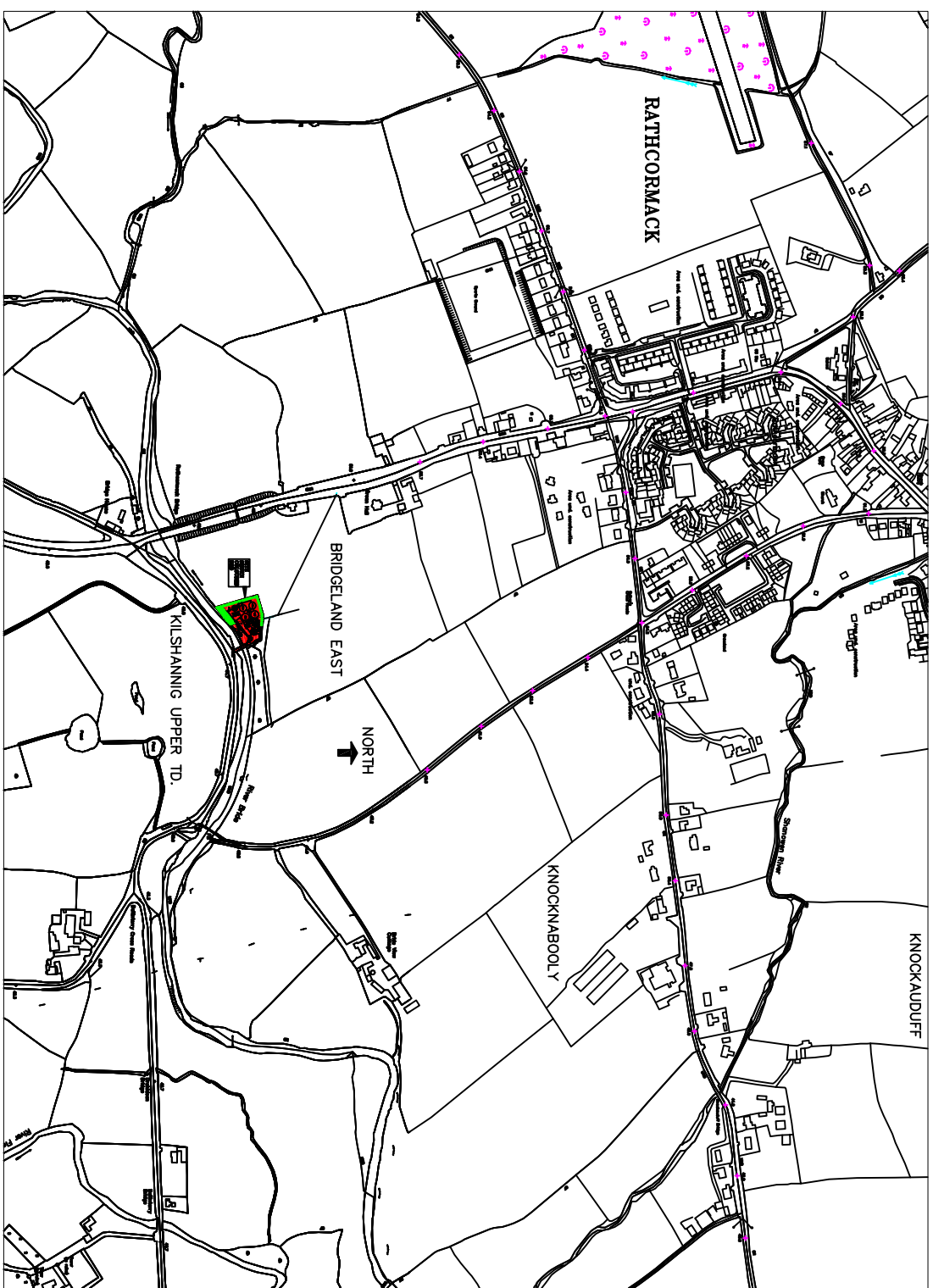
The hardstanding areas on site will have bitumen macadam surface and kerbing to form roadways and turning areas. Concrete footpaths will be provided to all control points and access locations. Areas within the treatment plant area that are not utilised for treatment units shall be provided with terran membrane overlaid with stone chips. The treatment processes shall be partially buried with a maximum height of 2.5m protruding above finished ground level (i.e. finished ground level to be at one level with that of existing plant). A control building will be provided on the site of the wastewater treatment plant to house plant controls and welfare facilities for the operator. The height of the control house shall not exceed 4.5m in height. The site will also be fenced off with 2.4m high palisade perimeter fencing coloured green along all boundaries.

The proposed works is in accordance with the Fermoy Local Area Plan 2005 (Section 5.3.11) and thereby conforms to the proper planning and sustainable development of the area.

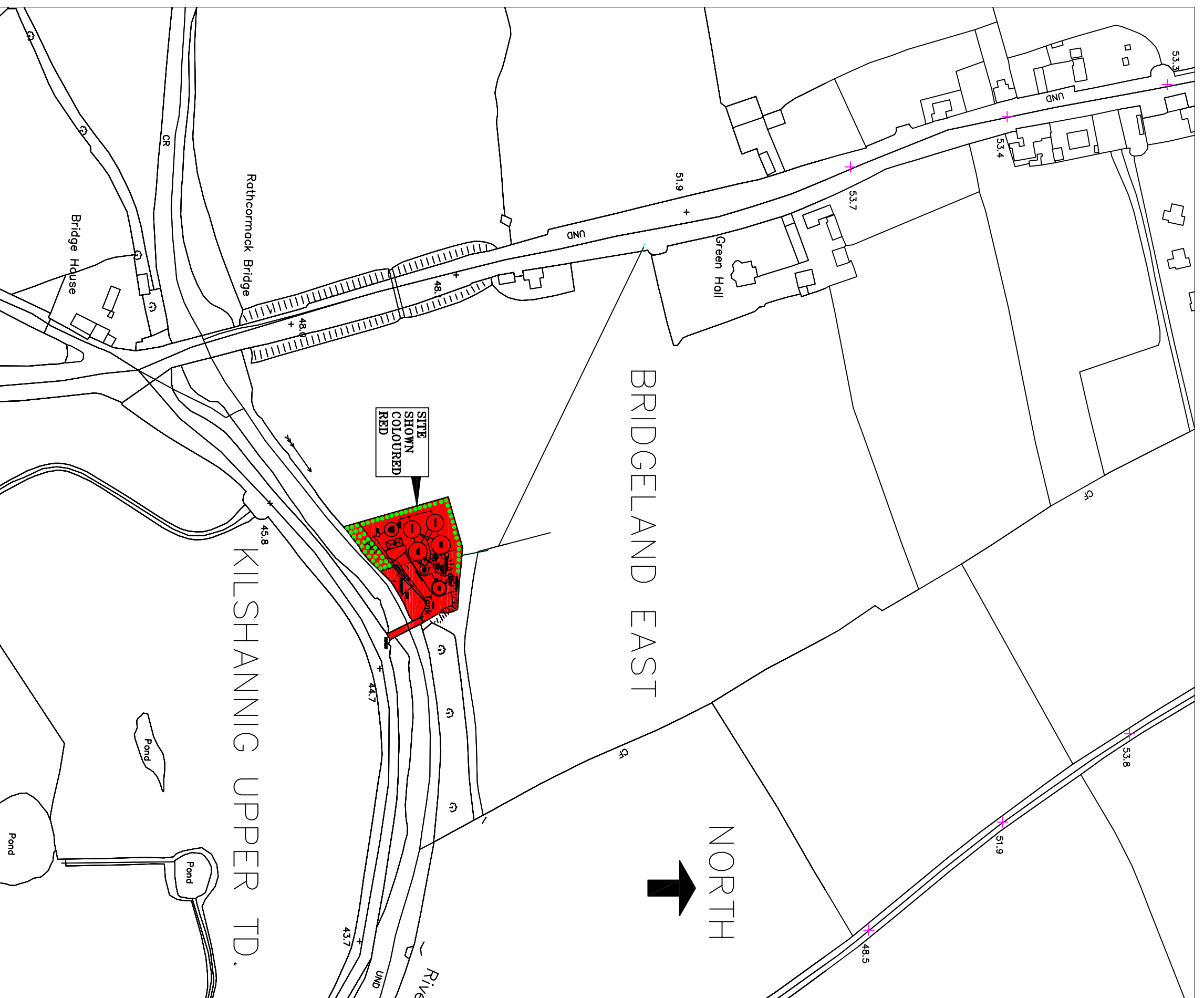
8.0 DRAWINGS

It should be noted that the proposed wastewater treatment plant layouts shown on the drawings are indicative only and are subject to revision. This is due to the proposed design/build procurement method.

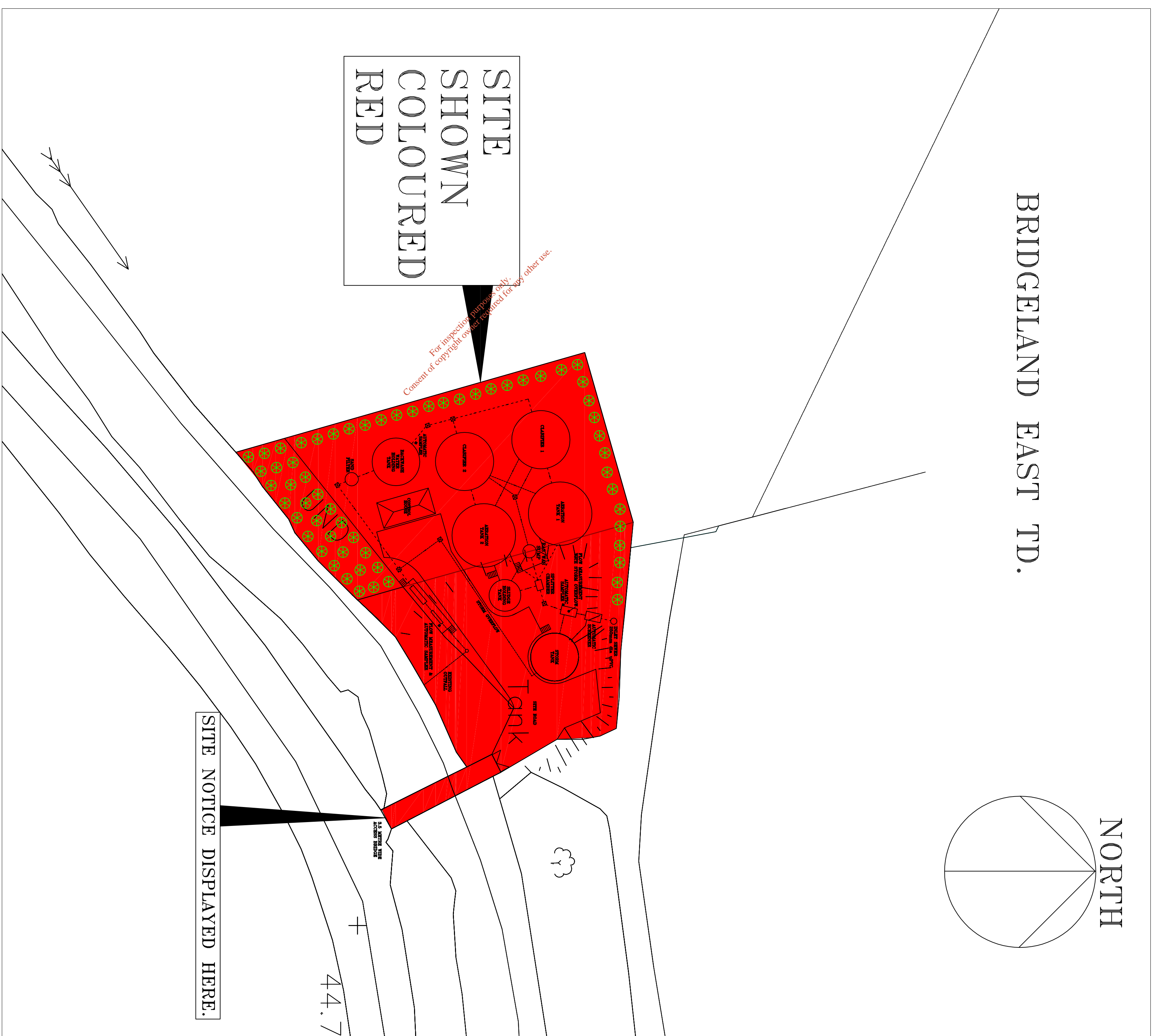
Drawing No.	Description
NC-08-10-001	Site Location Maps
NC-08-10-002	Site Layout
NC-08-10-003	Cross Sections
NC-08-10-004	Control House – Plan, Elevation & Sections



SITE LOCATION MAP.
SCALE: 1:10000.



SITE LOCATION MAP.
SCALE: 1:2500.



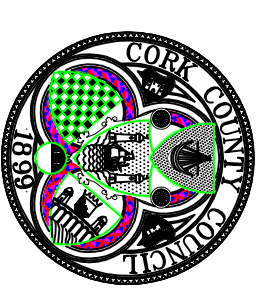
SITE LOCATION MAP.
SCALE: 1:500.

NOTES

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No.	Date	Drawn	Surv	Chkd	Revision Description
1	JAN 08 P.M.	E.L.	B.O'S		ISSUED FOR PLANNING PERMISSION.

Cork County Council,
Northern Division.



N. O'KEEFE, B.E.I.,
A/COUNTY ENGINEER,
COUNTY HALL,
CORK.

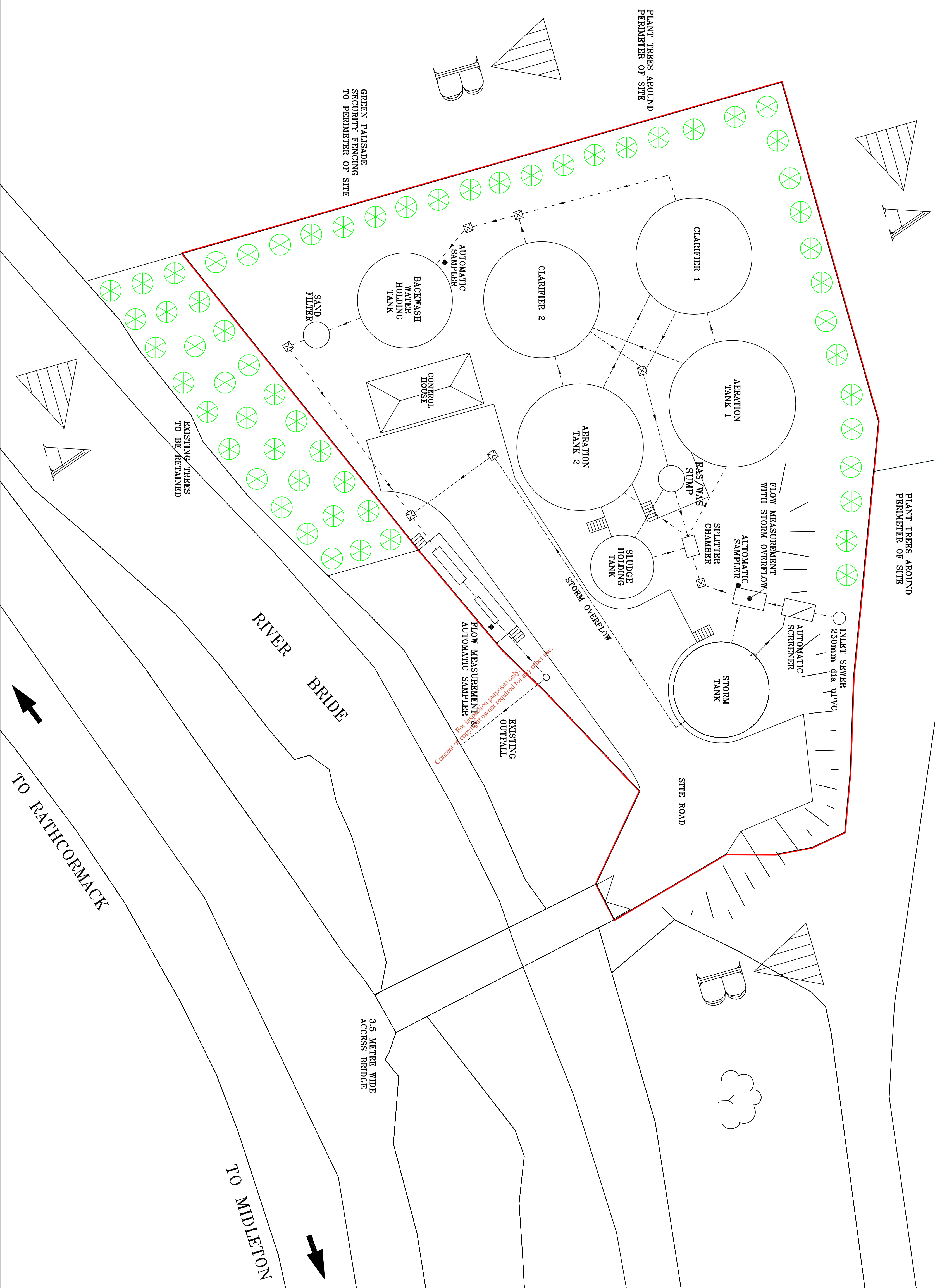
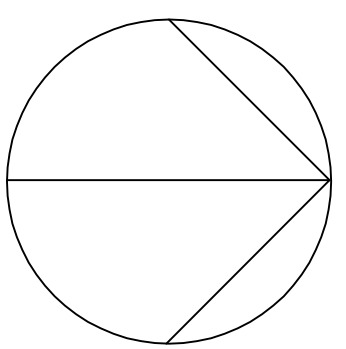
Job Title:
**PROPOSED UPGRADE OF
WASTE WATER TREATMENT PLANT AT
BRIDGELAND EAST TD.,
RATHCORMACK, CO. CORK.**

Drawing Title:
SITE LOCATION MAPS.

Scales:		Drawn by:
AS SHOWN.	P.M./B.O'S.	P.M.
Designed by:	Checked by:	Date:
B.O'S.	P.O'F.	JANUARY 2008.
Drawing number:	Rev:	
NC-08-10-001.		

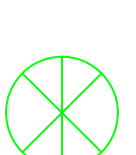
BRIDGELAND EAST TD.

NORTH



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LOCATION OF PALETTE FENCING
PROPOSED PLANTING AROUND PERIMETER OF SITE

THESE DRAWINGS ARE INDICATIVE OF STANDARD TREATMENT PLANT PROCESS LAYOUTS WHICH ARE LIKELY TO BE OFFERED BY A TENDERER. THE FINAL DESIGN OF THE TREATMENT PLANT SUBMITTED BY THE SUCCESSFUL TENDERER MAY DIFFER FROM THE STANDARD LAYOUT FOR WHICH PLANNING PERMISSION IS BEING SOUGHT.

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1	JAN.08 P.M.	E.L.	B.O'S		ISSUED FOR PLANNING PERMISSION.

Cork County Council,
Northern Division.



N. O'KEEFE, B.E.I.,
A/COUNTY ENGINEER,
COUNTY HALL,
CORK.

Job Title:
**PROPOSED UPGRADE OF
WASTE WATER TREATMENT PLANT AT
BRIDGELAND EAST TD.,
RATHCORMACK, CO. CORK.**

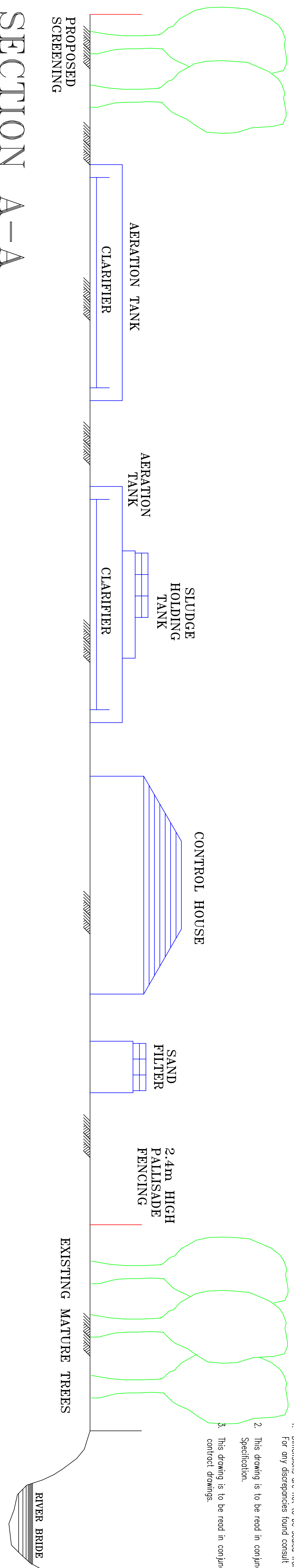
Drawing Title:
SITE LAYOUT PLAN.

Scales:		Drawn by:	
AS SHOWN.	P.M./F.J.	P.M.	
Designed by:	Checked by:	Date:	
F.J.	P.O'P.	JANUARY 2008.	
Drawing number:	Rev:		
NC-08-10-002.			

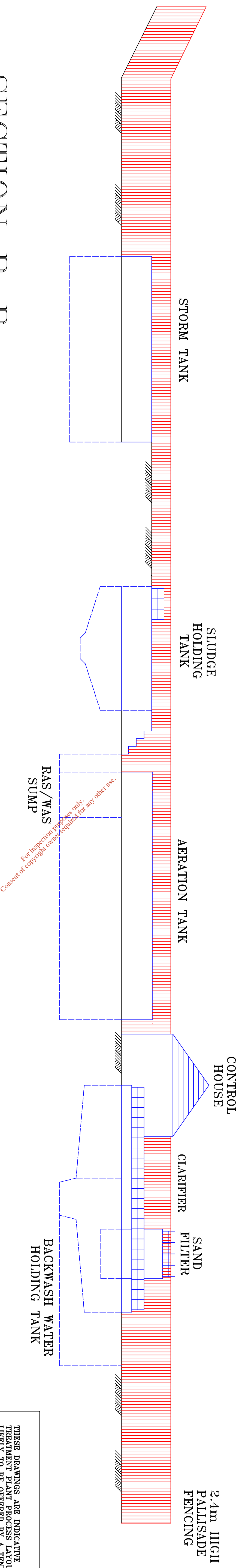
SITE LAYOUT PLAN.
SCALE: 1:200.

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SECTION A--A



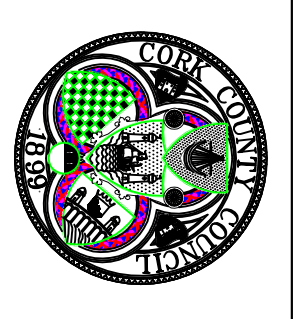
SECTION B-B

SITE LAYOUT PLAN.
SCALE: 1:100.

THESE DRAWINGS ARE INDICATIVE OF STANDARD TREATMENT PLANT LAYOUTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL DESIGN OF THE TREATMENT PLANT SUBMITTED BY THE SUCCESSFUL TENDERER. THE TENDERER MAY DIFFER FROM THE STANDARD LAYOUT FOR WHICH PLANNING PERMISSION IS BEING SOUGHT.

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Cork County Council,
Northern Division.



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A/COUNTY ENGINEER,
COUNTY HALL,
CORK.

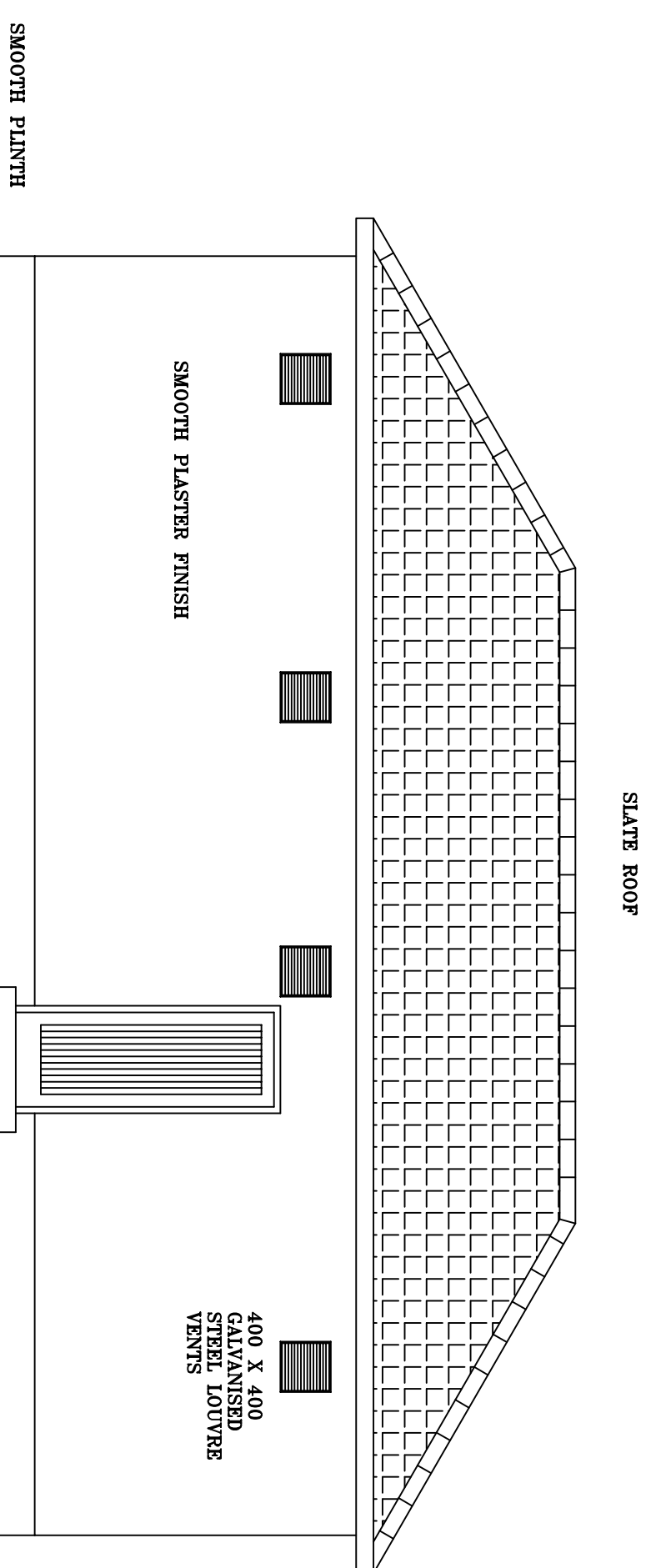
Job Title:
**PROPOSED UPGRADE OF
WASTE WATER TREATMENT PLANT AT
BRIDGELAND EAST TD.,
RATHCORMACK, CO. CORK.**

Drawing Title:
CROSS SECTIONS.

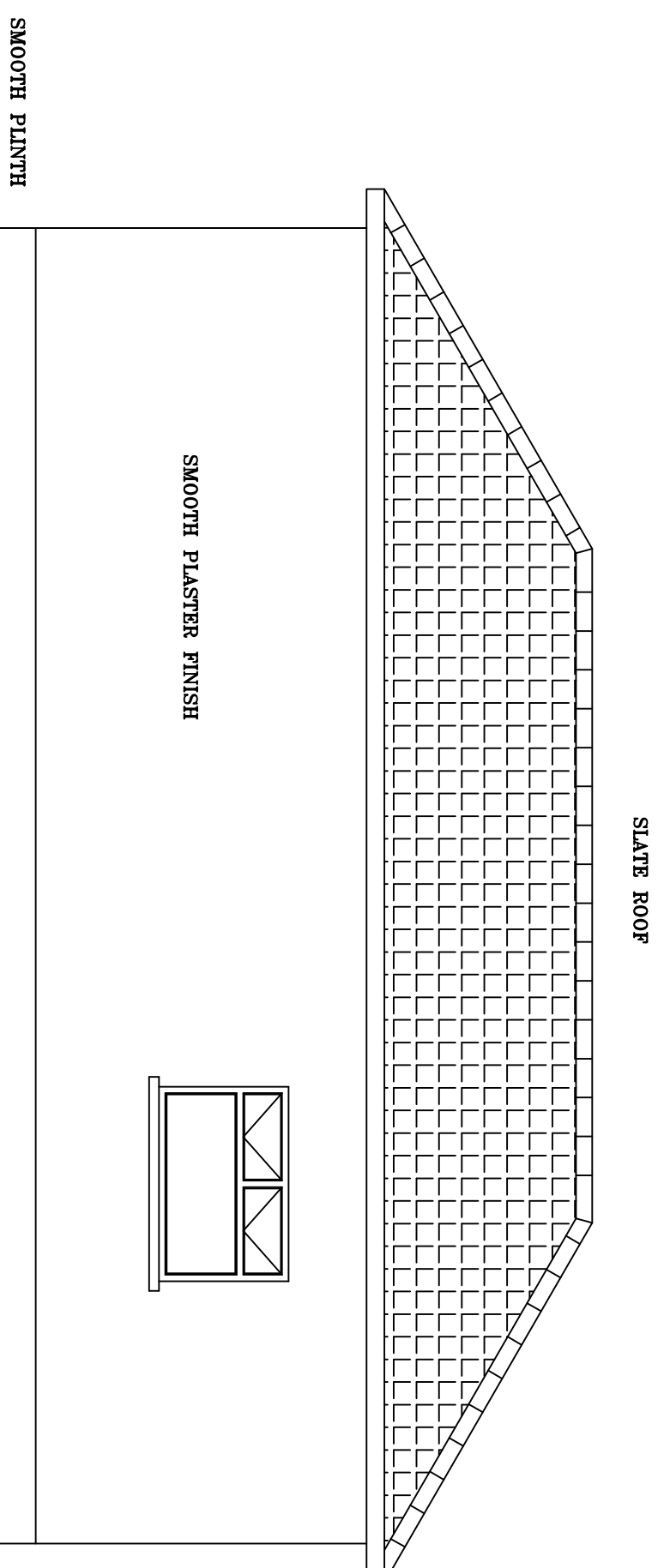
Scales:		Drawn by:	
AS SHOWN.	P.M./F.J.	P.M.	
Designed by	Checked by	Date:	
F.J.	P.O'P.	JANUARY 2008.	
Drawing number:	Rev:		
NC-08-10-003.			

NOTES

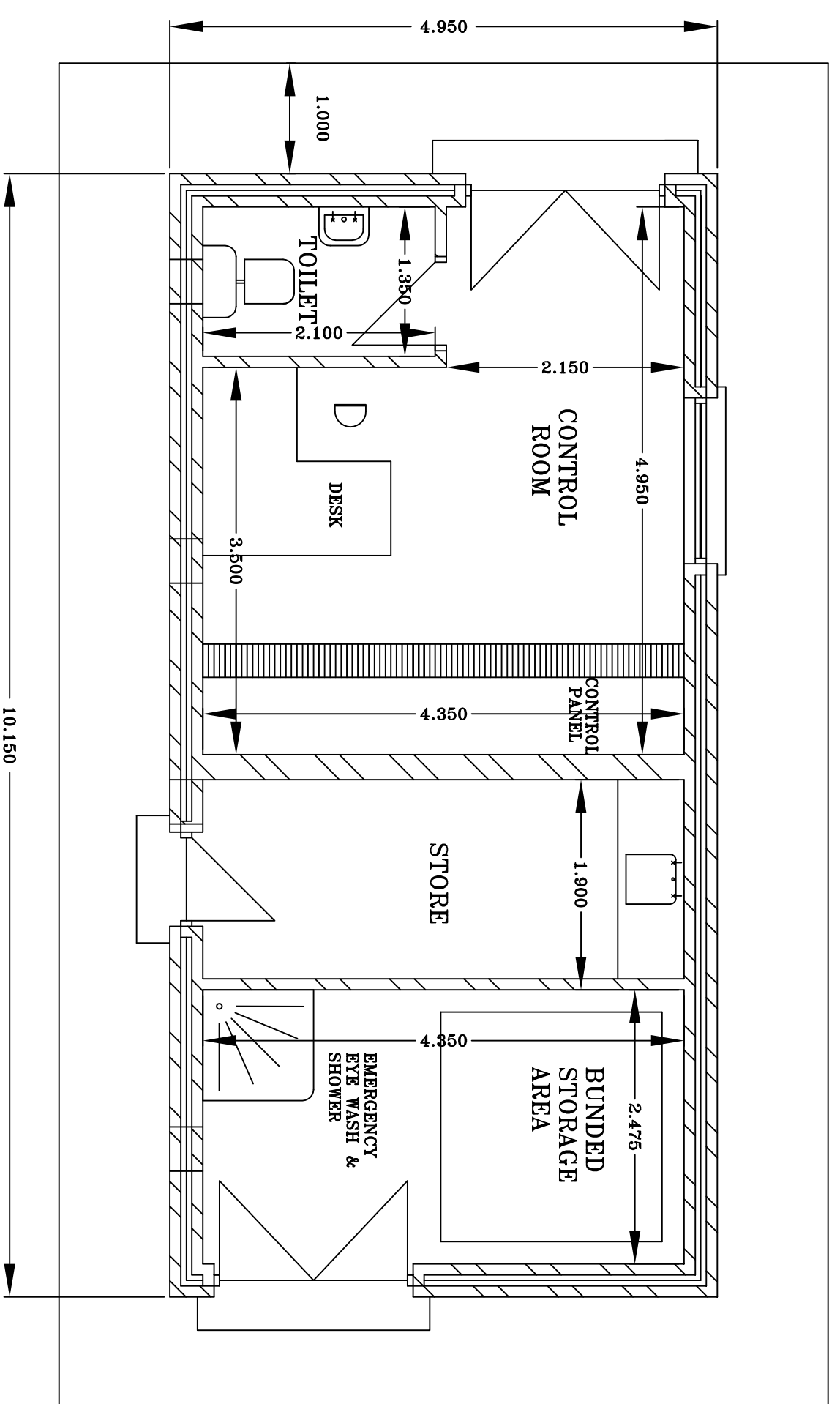
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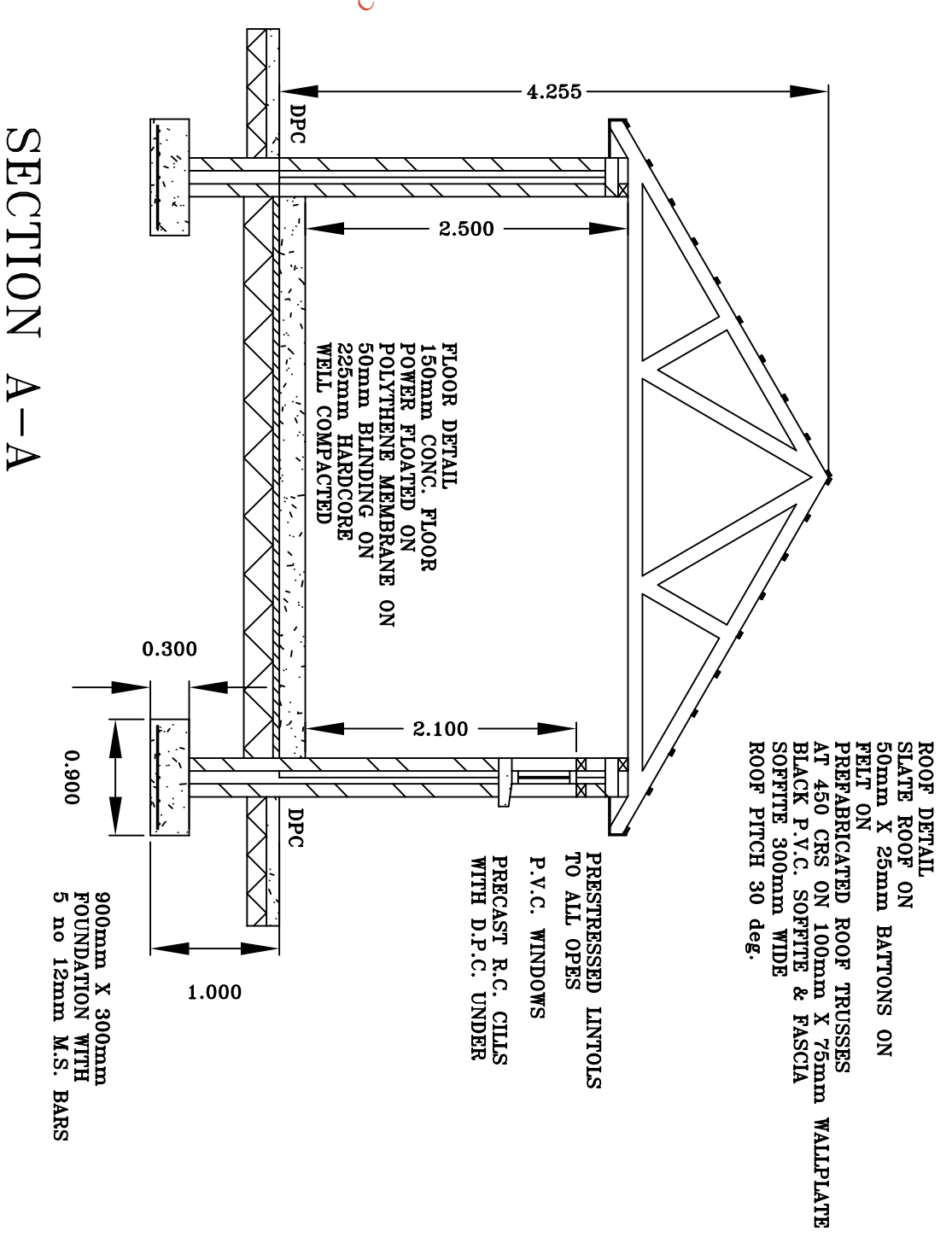
FRONT ELEVATION



REAR ELEVATION

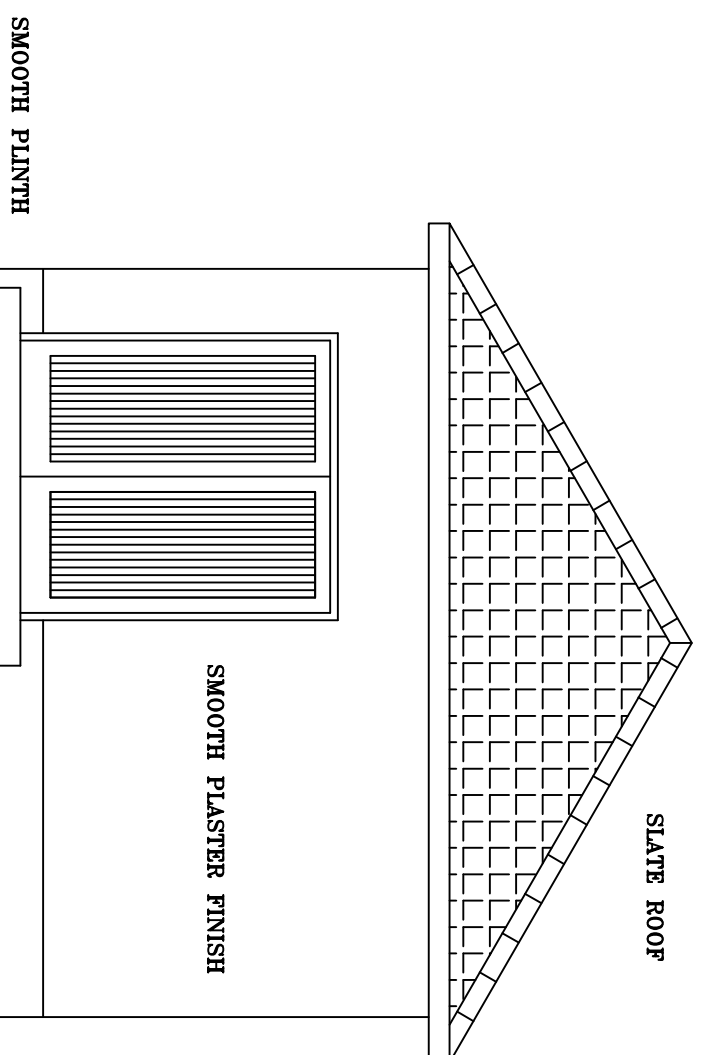


PLAN

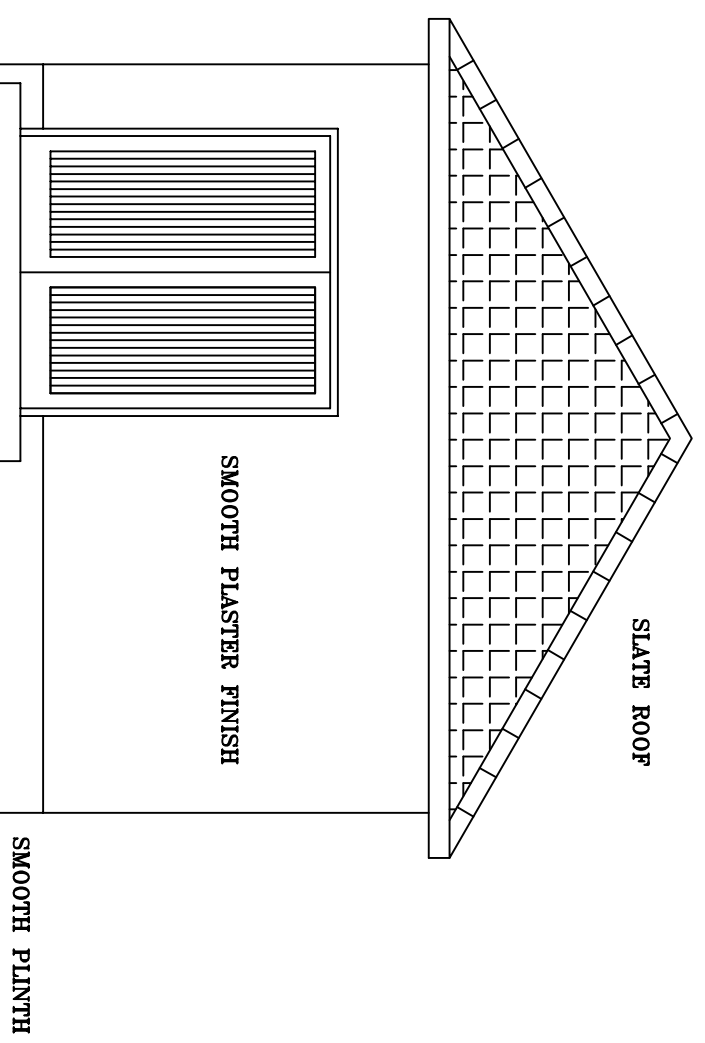


SECTION A-A

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SIDE ELEVATION

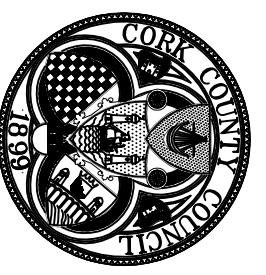


SIDE ELEVATION

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Cork County Council,
Northern Division.



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COUNTY HALL,
CORK.

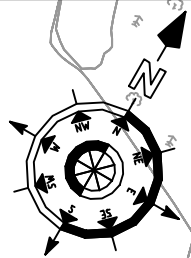
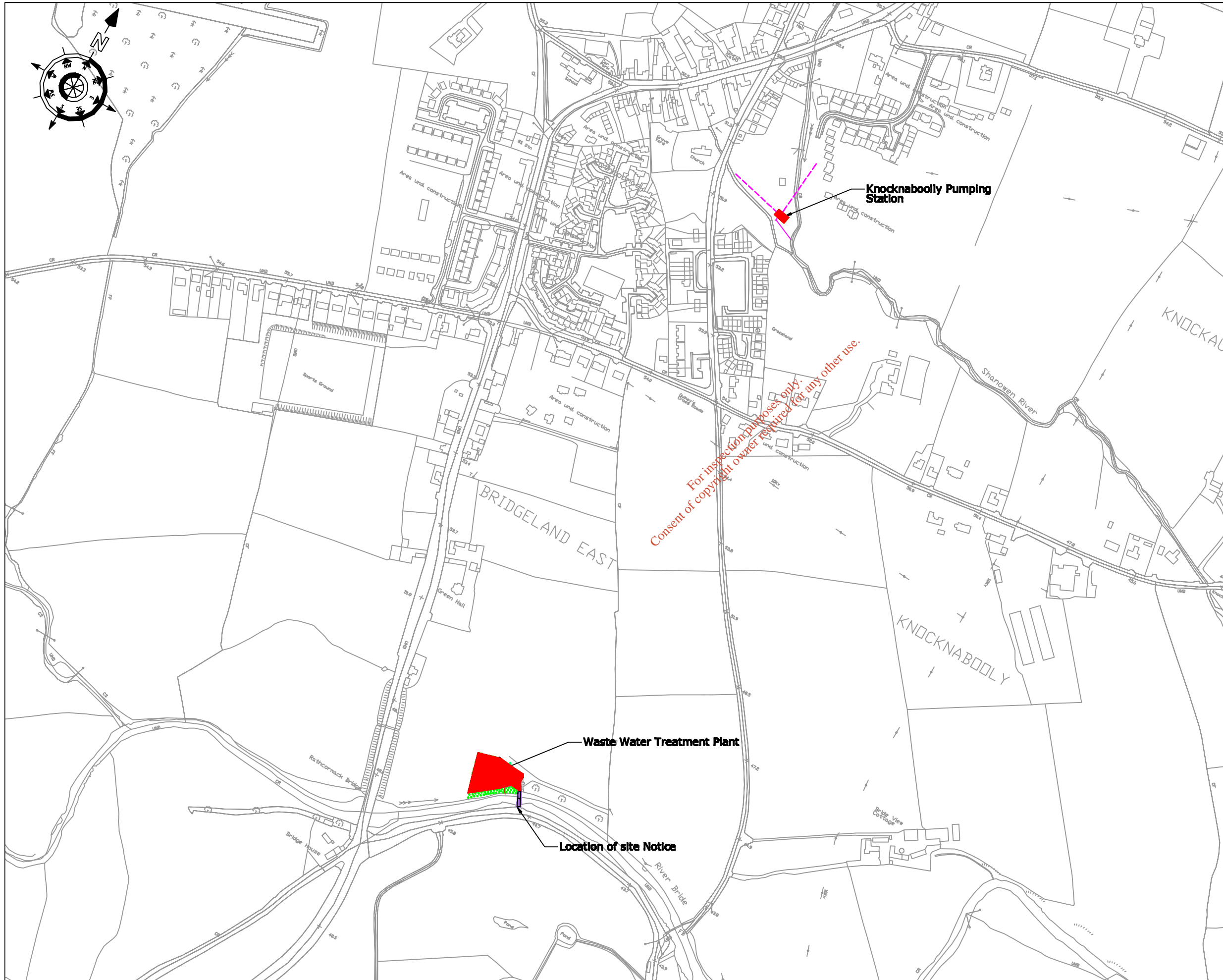
Job Title:
PROPOSED UPGRADE OF WASTE WATER TREATMENT PLANT AT BRIDGELAND EAST TD., RATHCORMACK, CO. CORK.

Drawing Title:
CONTROL HOUSE. PLAN, ELEVATIONS & SECTION.

Scales:
AS SHOWN. P.M./B.O'S. Drawn by: P.M.

Designed by: B.O'S. Checked by: P.O'F. Date: JANUARY 2008.

Drawing number: NC-08-10-004. Rev:




NOTES

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Cork County Council,
Northern Division.



N. O'KEEFE, B.E.,
A/COUNTY ENGINEER,
COUNTY HALL,
CORK.

Job Title:
**Rathcormack & Environs
Wastewater Discharge
Licence Application**

Drawing Title:
**Location of Site Notice
Attachment B8 - Map 9**

Scales: 1:5000 @ A3	Surveyed by: D.L.	Drawn by: D.L.
Designed by: F.J.	Checked by: F.C.	Date: August 2008
Drawing number: B8 - Map 9	Rev: -	



CORK COUNTY COUNCIL

SITE NOTICE

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Waste Water Discharge (Authorisation) Regulations 2007, Water Services Northern Division, Cork County Council, Annabella, Mallow is applying to the Environmental Protection Agency for a Waste Water Discharge Licence for Rathcormack Waste Water Treatment Plant, Bridgeland East, Rathcormack, Co. Cork at the following locations:

Plant Name	Location	National Grid Ref.
Rathcormack WWTP	Bridgeland East, Rathcormack	E180954 N090746

Discharge	Function	Townland	Receptor	Grid Reference
Primary	Main	Bridgeland East	Bride	E180980 N090731
Secondary	Emergency	Knocknabooly	Shannowen	E180938 N091613

A copy of the application for the Waste Water Discharge Licence and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall as soon as is practicable after receipt by the Agency be available for inspection or purchase at the

- Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335599 Telephone: 053-9160600 Fax: 053-9160699 Email: info@epa.ie and at
- Cork County Council Offices, Annabella, Mallow, Co. Cork, Telephone: 022-21123 Fax: 022-21983

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

Cork County Council Northern Division

**APPLICATION TO THE ENVIRONMENTAL
PROTECTION AGENCY FOR A WASTEWATER
DISCHARGE LICENCE**

In accordance with the Waste Water Discharge (Authorisation) Regulations 2007, Water Services Northern Division, Cork County Council, Annabella, Mallow is applying to the Environmental Protection Agency for a Waste Water Discharge Licence for Rathcormack Waste Water Treatment Plant, Bridgeland East, Rathcormack, Co. Cork at the following locations:

Plant Name	Location	National Grid Ref.
Rathcormack WWTP	Bridgeland East, Rathcormack	E180954 N090746

Discharge	Function	Townland	Receptor	Grid Reference
Primary	Main	Bridgeland East	Bride	E180980 N090731
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and at

- Cork County Council Offices, Annabella, Mallow, Co. Cork, Telephone: 022-21123 Fax: 022-21893.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above

Cork County

Water Services Investment Programme 2007 - 2009

Schemes at Construction	W/S	Est. Cost	Schemes to start 2009 contd.	W/S	Est. Cost
Cork North			Cork South		
Mitchelstown Sewerage Scheme (Nutrient Removal)	S	221,000	Ballincollig Sewerage Scheme (Upgrade) (G)	S	22,248,000
Cork South			Cork Lower Harbour Sewerage Scheme (excl. Crosshaven SS)	S	73,542,000
Ballyvourney/ Ballymakeery Sewerage Scheme	S	3,049,000	Shannagarry/ Garryvoe/ Ballycoiton Sewerage Scheme	S	3,780,000
Cobh/ Middleton/ Carrigwohill Water Supply Scheme	W	10,135,000	Youghal Sewerage Scheme	S	14,420,000
Cork Lower Harbour Sewerage Scheme (Crosshaven SS) (G)	S	4,850,000	Cork West		
Cork Water Strategy Study (G)	W	941,000	Ballydehob Sewerage Scheme	S	683,000
Kinsale Sewerage Scheme	S	20,000,000	Bantry Water Supply Scheme	W	14,935,000
Middleton Sewerage Scheme (Infiltration Reduction) (G)	S	2,078,000	Clonakilty Sewerage Scheme (Plant Capacity Increase)	S	3,677,000
		41,274,000	Courtmacsherry/ Timoleague Sewerage Scheme	S	2,472,000
Schemes to start 2007			Dunmanway Regional Water Supply Scheme Stage 1	W	12,669,000
Cork North					164,629,000
Cork West			Serviced Land Initiative		
North Cork Grouped DBO Wastewater Treatment Plant (Buttevant, Doneraile & Kilbrin)	S	5,150,000	Cork North		
Schemes to start 2008			Ballycough Water Supply Scheme	W	139,000
Cork North			Ballyhooley Improvement Scheme	W/S	139,000
Mallow/ Ballyviniter Regional Water Supply Scheme (H)	W	8,652,000	Broghill-Rathgoggin Sewerage Scheme	S	406,000
Mallow Sewerage Scheme (H)	S	5,408,000	Bweeng Water Supply Scheme	W	115,000
Cork South			Churchtown Sewerage Scheme (incl. Water)	W/S	543,000
Ballincollig Sewerage Scheme (Nutrient Removal) (G)	S	948,000	Clondulane Sewage Treatment Plant	S	417,000
Ballingeary Sewerage Scheme	S	1,296,000	Freemount Sewerage Scheme	S	150,000
Bandon Sewerage Scheme Stage 2	S	14,729,000	Pike Road Sewerage Scheme (incl. Water)	W/S	2,080,000
City Environs (CASP) Strategic Study (G)	S	153,000	Rathcomac Sewerage Scheme (incl. Water)	W/S	555,000
Cloghroe Sewerage Scheme (Upgrade)	S	683,000	Spa Glen Sewerage Scheme	S	736,000
Coachford Water Supply Scheme	W	1,318,000	Uplands Fermoy Sewerage Scheme (incl. Water)	W/S	1,174,000
Garretstown Sewerage Scheme	S	2,153,000	Watergrasshill Water Supply Scheme (incl. Sewerage) (G)	W/S	4,151,000
Inniscarra Water Treatment Plant Extension Phase 1	W	2,678,000	Cork South		
Little Island Sewerage Scheme (G)	S	2,200,000	Ballincollig Sewerage Scheme (Barry's Rd Foul and Storm Drainage) (G)	S	1,164,000
Cork West			Belgooley Water Supply Scheme (incl. Sewerage)	W/S	2,913,000
Bantry Sewerage Scheme	S	7,149,000	Blaney Water Supply Scheme (Ext. to Station Rd) (G)	W	416,000
Dunmanway Sewerage Scheme	S	2,153,000	Carrigwohill Sewerage Scheme (Treatment and Storm Drain) (G)	S	7,632,000
Leap/ Ballimore Water Supply Scheme	W	6,365,000	Castlemalyr Wastewater Treatment Plant Extension	S	1,200,000
Schull Water Supply Scheme	W	5,253,000	Crookstown Sewerage Scheme (incl. Water)	W/S	1,200,000
		61,137,000	Dripsey Water Supply Scheme (incl. Sewerage)	W/S	1,112,000
Schemes to start 2009			Glounthane Sewerage Scheme (G)	S	1,576,000
Cork North			Innishannon Sewerage Scheme	S	277,000
Banteer/Dromahane Regional Water Supply Scheme	W	1,576,000	Innishannon Wastewater Treatment Plant	S	694,000
Conna Regional Water Supply Scheme Extension	W	2,627,000	Kerryrke Sewerage Scheme	S	832,000
Cork NE Water Supply Scheme	W	4,326,000	Kerryrke Water Supply Scheme	W	416,000
Cork NW Regional Water Supply Scheme	W	6,046,000	Killeagh Wastewater Treatment Plant Extension	S	1,200,000
Millsireel Wastewater Treatment Plant (Upgrade)	S	1,628,000	Killeagh Water Supply Scheme (includes Sewerage)	W/S	485,000
			Killeens Sewerage Scheme	S	420,000
			Kinagleary Sewerage Scheme	S	694,000
			Middleton Wastewater Treatment Plant Extension	S	4,050,000