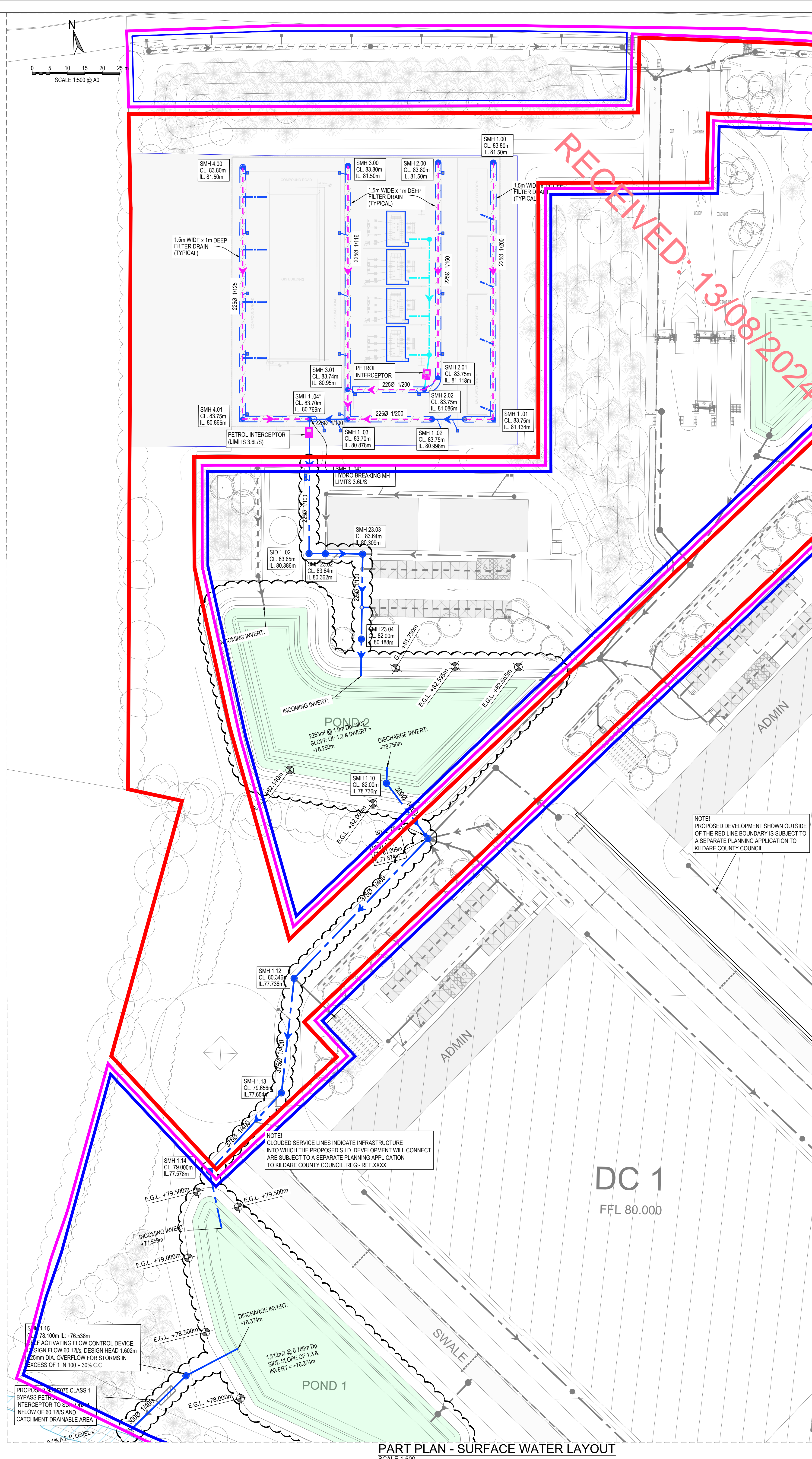


GENERAL LAYOUT
SCALE 1:1000



PART PLAN - SURFACE WATER LAYOUT
SCALE 1:500

SURFACE WATER LEGEND:

- PROPOSED SURFACE WATER DRAINAGE (SD AREA)
- PROPOSED SURFACE WATER DRAINAGE (PERFORATED PIPE) (SD AREA)
- PROPOSED SURFACE WATER DRAINAGE
- PROPOSED SURFACE WATER DRAINAGE (FIREWATER RUNOFF)
- PROPOSED SURFACE WATER DRAINAGE (PERFORATED PIPE)
- SMH
- SAJ / SIC
- RG
- PROPOSED FILTER DRAIN
- PROPOSED SWALES
- PROPOSED RETENTION POND
- PROPOSED BLUE ROOF
- PR - TREE PLY BIORETENTION AREA WITH PERFORATED UNDERDRAIN
- PROPOSED PERMEABLE PAVING CAR PARKING BAYS
- PROPOSED SWALE BARRIERS
- DROPPED KERBS LOCATIONS

NOTE 1: MANHOLE COVER LEVELS ARE APPROXIMATE. ACTUAL COVER LEVELS SHOULD MATCH SURROUNDING FINISHED GROUND LEVELS U.N.O.

NOTE 2: PIPES WITH LESS COVER THAN:
• 600mm FOR GRASSED AREAS
• 900mm FOR FOOTPATHS
• 1200mm FOR ROADS
TO BE SURROUNDED IN 150mm CONCRETE PROTECTION IN ACCORDANCE WITH IRISH WATER STANDARD DETAIL STD-WW-07

NOTE 3: ALL MANHOLE COVERS LOCATED IN GRASS AREAS TO BE SURROUNDED (Min. 200mm SURROUND) IN 100mm THK C20/25 CONCRETE JARDIN

SURFACE WATER MATERIAL TO BE IN ACCORDANCE WITH GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS

- UNPLASTICISED P.V.C. PIPES MUST COMPLY WITH THE PROVISIONAL SPECIFICATION FOR SOIL PIPES, DRAINS, SEWERS & FITTINGS MADE OF UNPLASTICISED P.V.C. ISSUED BY THE DEPARTMENT OF THE ENVIRONMENT
- B.S. 8005 PART 1: SEWERAGE OR EQUIVALENT
- B.S. 8010 PART 2: PIPELINES ON LAND OR EQUIVALENT: DESIGN, CONSTRUCTION & INSTALLATION
- B.S. 5895 PART 6 CODE OF PRACTICE FOR THE INSTALLATION OF UNPLASTICISED P.V.C. PIPEWORK FOR GRAVITY DRAINS & SEWERS OR EQUIVALENT
- DN140 - UNPLASTICISED P.V.C. SEWER PIPE SPECIFICATION
- B.S. 4514 - UNPLASTICISED P.V.C. SOIL PIPE SPECIFICATION
- DxHxL SITE DEVELOPMENT WORKS & SECTION H OF THE BUILDING REGULATIONS

SURFACE WATER DRAINAGE MANHOLE SCHEDULE			
REF.	CL	IL	NOTES
SMH 2.00	83.80	81.50	
SMH 2.01	83.75	81.118	
SMH 2.02	83.75	81.086	DISCHARGE TO SMH 3.01
SMH 3.00	83.80	81.50	
SMH 3.01	83.74	80.95	DISCHARGE TO SMH 1.03
SMH 4.00	83.80	81.50	
SMH 4.01	83.75	80.865	DISCHARGE TO SMH 1.04*
SMH 1.00	83.80	81.50	
SMH 1.01	83.75	81.134	
SMH 1.02	83.75	80.998	
SMH 1.03	83.70	80.878	DISCHARGE FROM SMH 3.01
SMH 1.04*	83.70	80.769	HYDRO BREAKING MH LIMITS 3.6LS PETROL INTERCEPTOR (LIMITS 3.6LS)
SID 1.02	83.65	80.386	
SMH 23.02	83.64	80.362	
SMH 23.03	83.64	80.309	BD FROM SMH 24.00 IL +82.215m
SMH 23.04	82.00	80.188	DISCHARGE TO POND 2 IL +78.250m
SMH 1.10	82.000	78.736	OUTFALL FROM POND 2 IL +78.750m
SMH 1.11	81.009	77.874	BD FROM SMH 1.10 - IL +78.637
SMH 1.12	80.346	77.736	
SMH 1.13	79.656	77.664	
SMH 1.14	79.000	77.578	DISCHARGE TO POND 1 IL +76.559m
SMH 1.15	79.000	77.325	OUTFALL FROM POND 1 IL +76.374m TO OUT

ALL dimensions to be checked on site. Figured dimensions take preference over stated dimensions. Any error or discrepancy shall be reported to the Engineer. The issuing may be subject to modification by the request.

A0

HERBATA GREEN ENERGY DATA

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NOTES:

- DO NOT SCALE OFF THIS DRAWING. ALWAYS WORK TO NOTED DIMENSIONS.
- ALL DIMENSIONS MUST BE VERIFIED ON SITE BEFORE COMMENCING WORK. DISCREPANCIES MUST BE REPORTED TO THE ENGINEER.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DISCIPLINE DRAWINGS, REPORTS AND SPECIFICATIONS.
- REFER TO ARCHITECT'S DRAWINGS FOR ALL SITE & APPLICATION REQUIREMENTS.
- REFER TO SURVEY DRAWINGS FOR EXISTING SERVICES LAYOUTS AND MANHOLE INFORMATION.
- ALL EXISTING SERVICES TO BE REINSTATED FOLLOWING CONSTRUCTION OF NEW SERVICES.
- CONTRACTOR TO ENSURE ALL WATER & SEWERAGE SERVICES ARE IN ACCORDANCE WITH THE IRISH WATER WATER INFRASTRUCTURE CODE OF PRACTICE & STANDARD DETAIL DOCUMENTS.
- TESTING OF ALL GRAVITY SEWERS AND MANHOLES TO BE IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE SECTION 4.10 TESTING OF GRAVITY SEWERS & MANHOLES.

LEGEND:

- AREA TO WHICH APPLICATION RELATES
- AREA SUBJECT OF SEPARATE ACC PLANNING APPLICATION
- OTHER LANDS UNDER CONTROL OF THE APPLICANT

KEY PLAN

TRUE NORTH

Rev.	Date	Description
01	27/06/2023	ISSUED FOR PLANNING
02	27/06/2023	ISSUED FOR PLANNING
03	27/06/2023	ISSUED FOR PLANNING
04	27/06/2023	ISSUED FOR PLANNING
05	27/06/2023	ISSUED FOR PLANNING
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100	27/06/2023	ISSUED FOR PLANNING

PLANNING

PROJECT: HERBATA DATA CENTRE CAMPUS

PROJECT ADDRESS: NAAS, CO. KILDARE

DWG TITLE: PROPOSED SURFACE WATER DRAINAGE - SID AREA

DWG NO: 2232-DOB-ZZ-ZZ-DR-C-0250

REV: P09 S3 SCALE: AS SHOWN @ A0

DATE: 27/06/2023 DW: MF LK: RK

RKD

2351 195 150

BSM

Est. 1980

DONNACHADH O'BRIEN & ASSOCIATES CONSULTING ENGINEERS

GENERAL

- ## TREE SURVEY

-
- Diagram illustrating the components of a tree tag and its associated areas:
- Root Protection Area (RPA)
 - Tree Canopy
 - Tree Stem & Category Colour
 - Tree Tag Number & Category

REFER DRAWING L-0103

AGRICULTURAL LAND

SUBJECT OF SEPARATE
SID APPLICATION

RESIDENTIAL BUILDING


FARM BUILDINGS

AC

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Notes:



20-0000

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[illegible]

P91	26/04/2024	Issue for planning
Rev.	Date	Description
STATUS		
PLANNING		
PROJECT	Herberta Data Centre Campus	
PROJECT ADDRESS	Naas, Co. Kildare	

DWG TITLE				Existing Tree Survey			
				Sheet 1 of 4			
DWG NO.							
BSM-ZZ-ZR-DR-L-0101							
REV.		SUITABILITY		PROJECT NO.		22217	
P01		S1		SCALE		1:500	
DATE		April 2024		DRN		BM	
				CHK		DB	

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1968

DONNACHADH O'BRIEN
 & ASSOCIATES CONSULTING ENGINEERS

GENERAL

- ## TREE SURVEY

-
- The diagram shows a circular tree tag with a blue center and a green ring. Labels with leader lines point to different parts of the tag: 'Root Protection Area (RPA)' points to the green ring, 'Tree Canopy' points to the outer white area, 'Tree Stem & Category Colour' points to the blue center, and 'Tree Tag Number & Category' points to the text 'T2021-B2' on the left.

- REFER DRAWING L-0101**

OSBERTOWN BUSINESS PARK

RESIDENTIAL BUILDING

R40.9

MOTORWAY M7

REFER DRAWING L-0104

Figure 1 is a complex network diagram showing interactions between various proteins. The nodes are represented by colored circles (red, blue, green, black) and labeled with protein names and IDs. The edges are represented by lines of different colors (red, blue, green, black) connecting the nodes. A large red diagonal watermark reads "RECEIVED: 13/08/2024".

Key nodes and their connections include:

- Red nodes:** T873-C2, T872-B2, T871-C2, T870-B2, T869-B2, T868-B2, T867-B2, T866-B2, T865-B2, T864-B2, T863-C2, T862-B2, T861-C2, T860-B2, T859-B2, T858-B2, T857-B2, T856-B2, T855-B2, T854-B2, T853-B2, T852-B2, T851-B2, T850-B2, T849-B2, T848-B2, T847-B2, T846-B2, T845-B2, T844-B2, T843-B2, T842-B2, T841-B2, T840-B2, T839-B2, T838-B2, T837-B2, T836-B2, T835-B2, T834-B2, T833-B2, T832-B2, T831-B2, T830-B2, T829-B2, T828-B2, T827-B2, T826-B2, T825-B2, T824-B2, T823-B2, T822-B2, T821-B2, T820-B2, T819-B2, T818-B2, T817-B2, T816-B2, T815-B2, T814-B2, T813-B2, T812-B2, T811-B2, T810-B2, T809-B2, T808-B2, T807-B2, T806-B2, T805-B2, T804-B2, T803-B2, T802-B2, T801-B2, T800-B2, T799-B2, T798-B2, T797-B2, T796-B2, T795-B2, T794-B2, T793-B2, T792-B2, T791-B2, T790-B2, T789-B2, T788-B2, T787-B2, T786-B2, T785-B2, T784-B2, T783-B2, T782-B2, T781-B2, T780-B2, T779-B2, T778-B2, T777-B2, T776-B2, T775-B2, T774-B2, T773-B2, T772-B2, T771-B2, T770-B2, T769-B2, T768-B2, T767-B2, T766-B2, T765-B2, 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T320-B2, T319-B2, T318-B2, T31

AGRICULTURAL LAND

EXISTING BLUEBELL STREAM

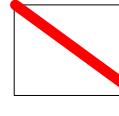
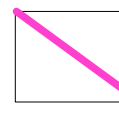

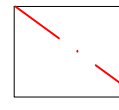
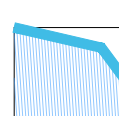

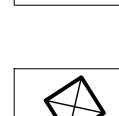

C7-C2

M7 BUSINESS PARK





REFER DRAWING L-0104

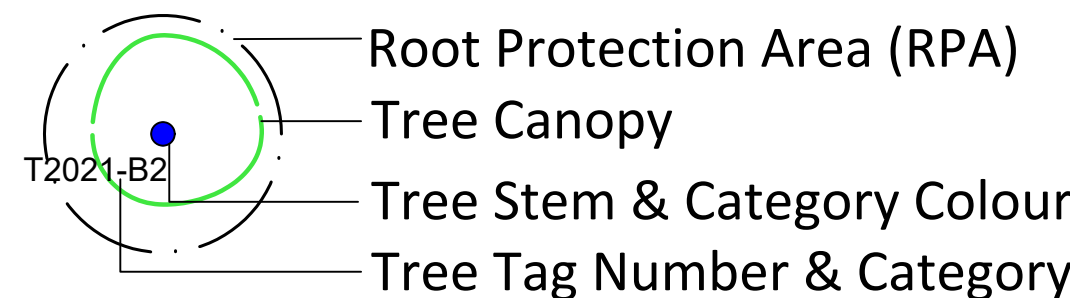
LEGEND

GENERAL

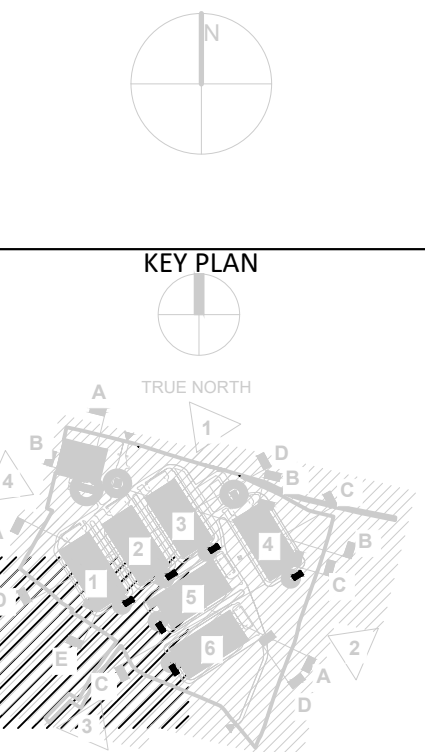
- | | |
|---|--|
|  | Area to Which Application Relates |
|  | Area Subject of Separate SID Application |
|  | Existing Contours |
|  | Existing Wayleave. Refer survey. |
|  | Existing water course. Refer survey. |
|  | Existing Drainage Ditch. Refer Survey. |
|  | Existing Pylon. Refer Survey. |
|  | Existing Fulach Fiadh. Refer Survey. |

TREE SURVEY

-  **Category A Trees (high value)**
Trees of high quality/value with a min. of 40yrs life expectancy.
-  **Category B Trees (moderate value)**
Trees of moderate quality/value with a min. of 20yrs life expectancy.
-  **Category C Trees (low value)**
Trees of low quality/value with a min. of 10yrs life expectancy.
-  **Category U Trees (unsuitable for retention)**
Trees in such a condition that any existing value would be lost within 10yrs



- H3 Existing shrubs/trees
- Tree Group/Hedge/Woodland Number
 - Canopy Extent

[illegible]

01	26/04/2024	Issue for planning
Rev.	Date	Description
STATUS		
PLANNING		
OBJECT	Herbata Data Centre Campus	
OBJECT ADDRESS	Naas, Co. Kildare	
DRAWING TITLE		
Existing Tree Survey		
Sheet 3 of 4		

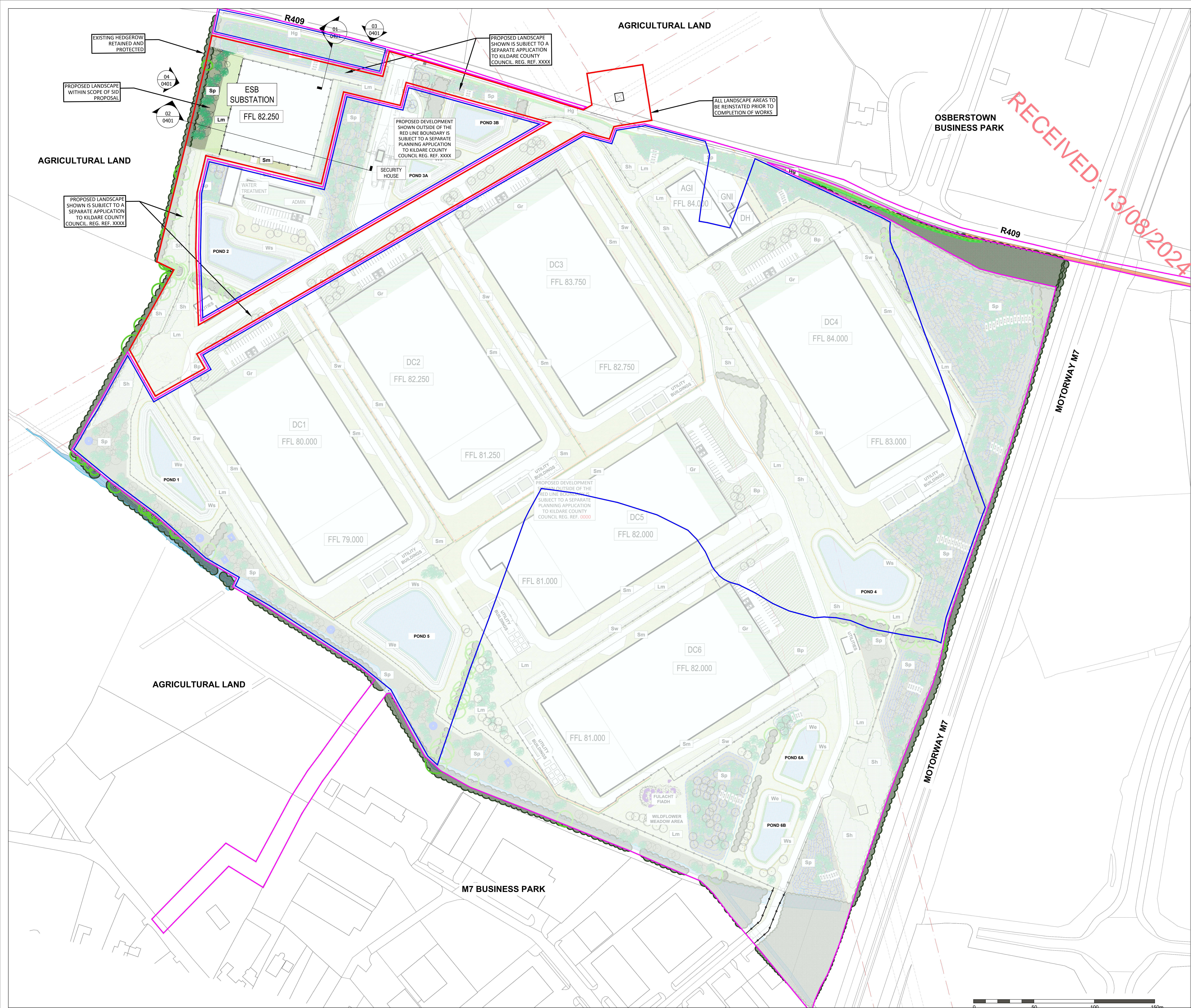
BSM-ZZ-ZZ-DR-L-0103			
SUITABILITY	PROJECT NO. 22217		
P01 S1	SCALE 1:500		
DATE April 2024	DRN	BM	CHK DB

R K D

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mail@rkd.ie



















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BSM
Est.
1968



LEGEND



GENERA

-  Area to which application relates
-  Area subject of separate KCC planning application
-  Other lands under control of the applicant
-  Proposed Buildings. Refer to RKD-ZZ-ZZ-DR-A-1010
-  District Heating. Refer to RKD-ZZ-ZZ-DR-A-1010
-  Above Ground Installations. Refer to RKD-ZZ-ZZ-DR-A-1010
-  Data Centre. Refer to RKD-ZZ-ZZ-DR-A-1010
-  Gas Network Ireland. Refer to RKD-ZZ-ZZ-DR-A-1010
-  Proposed Contours. Refer HDR-XX-XX-DR-C-112210
-  Existing Wayleave. Refer Survey.
-  Proposed Security Fence to Arch. Details. Refer RKD-ZZ-ZZ-DR-A-1400
-  Proposed Post & Rail Fence to Arch. Details. Refer RKD-ZZ-ZZ-DR-A-1400
-  Proposed Post & Wire Fence to Arch. Details. Refer RKD-ZZ-ZZ-DR-A-1400
-  Proposed Retaining Wall. Refer HDR-XX-XX-DR-C-112210 & Detail 01, L-0451
-  Existing Water Course. Refer Survey.
-  Existing Drainage Pipe. Refer Survey.
-  Existing Pylon. Refer Survey.
-  Existing Fulach Fiadh. Refer Survey.

EXISTING VEGETATION

- Existing scrub/ woodland planting to be retained
- Existing Individual Trees to be retained




PROPOSED PERIMETER TREE PLANTING

-  Proposed standard, extra heavy standard trees (14-16cm, rb, 3-4m). Refer Planting Schedule L-0450
-  Proposed semi-mature pine, evergreen trees (2-3m high, feathered, rb). Refer Planting Schedule L-0450

PROPOSED INTERNAL TREE PLANTING

- Proposed standard, extra heavy standard trees (14-16cm, rb, 3-4m). Refer Planting Schedule L-0450







PROPOSED SCREEN PLANTING

-  Proposed native mixed structural screen planting. Refer Planting Schedule L-0450
-  Proposed native scrub/hedge mix (max 3m high) Refer Planting Schedule L-0450
-  Proposed native hedge mix. Refer Planting Schedule L-0450

PROPOSED GRASSLAND PLANTING

- Proposed short wildflower meadow. Refe
Planting Schedule L-0450
- Proposed long wildflower meadow. Refe
Planting Schedule L-0450







PROPOSED SUDS PLANTING

-  Proposed biofiltration planting. Refer Planting Schedule L-0450
-  Proposed dry grass swale. Refer Planting Schedule L-0450
-  Proposed wetland planting. Refer Planting Schedule L-0450
-  Proposed wetland pond seeding. Refer Planting Schedule L-0450
-  Proposed sedum roof planting. Refer Planting Schedule L-0450
-  Proposed green wall planting. Refer Detail 01 and Planting Schedule L-045

PROPOSED ENTRANCE PLANTING

- Et** Proposed entrance planting. Refer to Planting Schedule L-0450

PROPOSED LANDSCAPE TREATMENTS

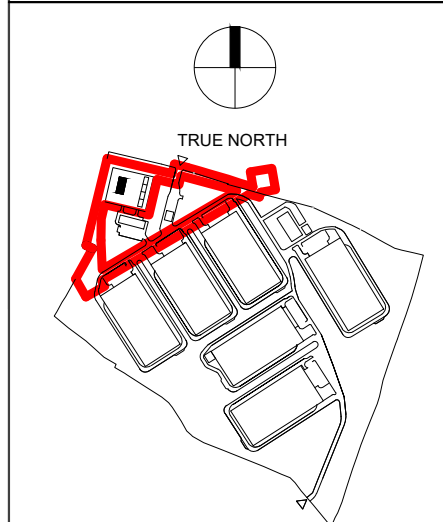
-  Proposed Contours / Mounding. Refer HDR-XX-XX-DR-C-112210
-  Proposed bat house
-  Proposed bat box
-  Proposed biofiltration ponds to eng. details
Refer Detail 09, L-0450
-  Proposed 1.2m Stone Wall.
Refer Detail 08, L-0450
-  Proposed Vegetated Headwall.
Refer Detail 02, L-0451

All dimensions to be checked on site. Figured dimensions take preference over scaled dimensions. Any errors or discrepancies to be reported to the Architects. This drawing may not be edited or modified by the consultant.

A0



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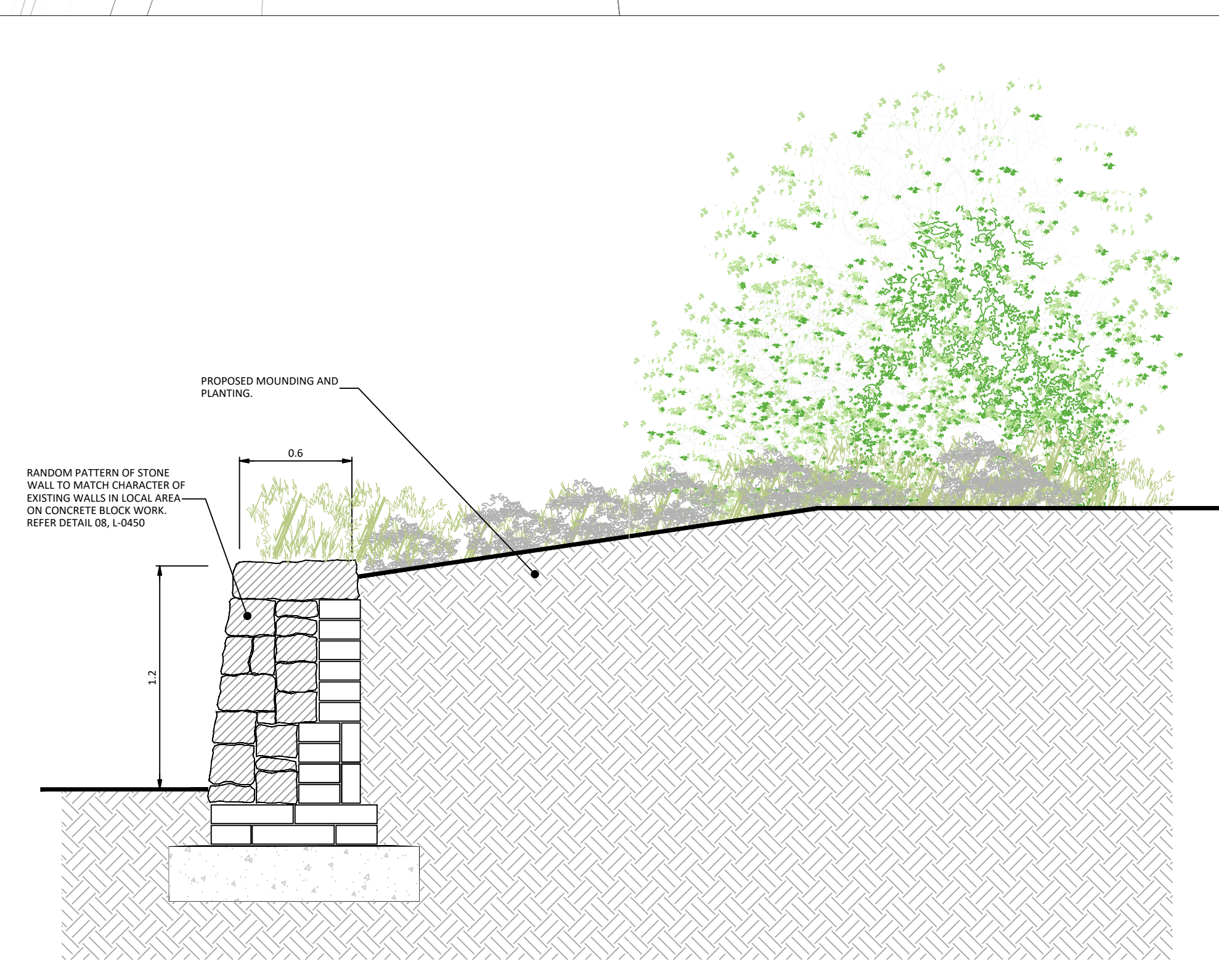
PO1	26/04/2024	Issue for planning
Rev.	Date	Description
STATUS		
PLANNING		
PROJECT	Herbata Data Centre Campus	
PROJECT ADDRESS	Naas, Co. Kildare	
DWG TITLE	Proposed Landscape Context Masterplan - SID Area	

DWG NO.			
BSM-ZZ-ZZ-DR-L-0301			
REV.	SUITABILITY	PROJECT NO. 22217	
P01	S1	SCALE 1:1,00	
DATE	April 2024	DRN BM	CHK DB

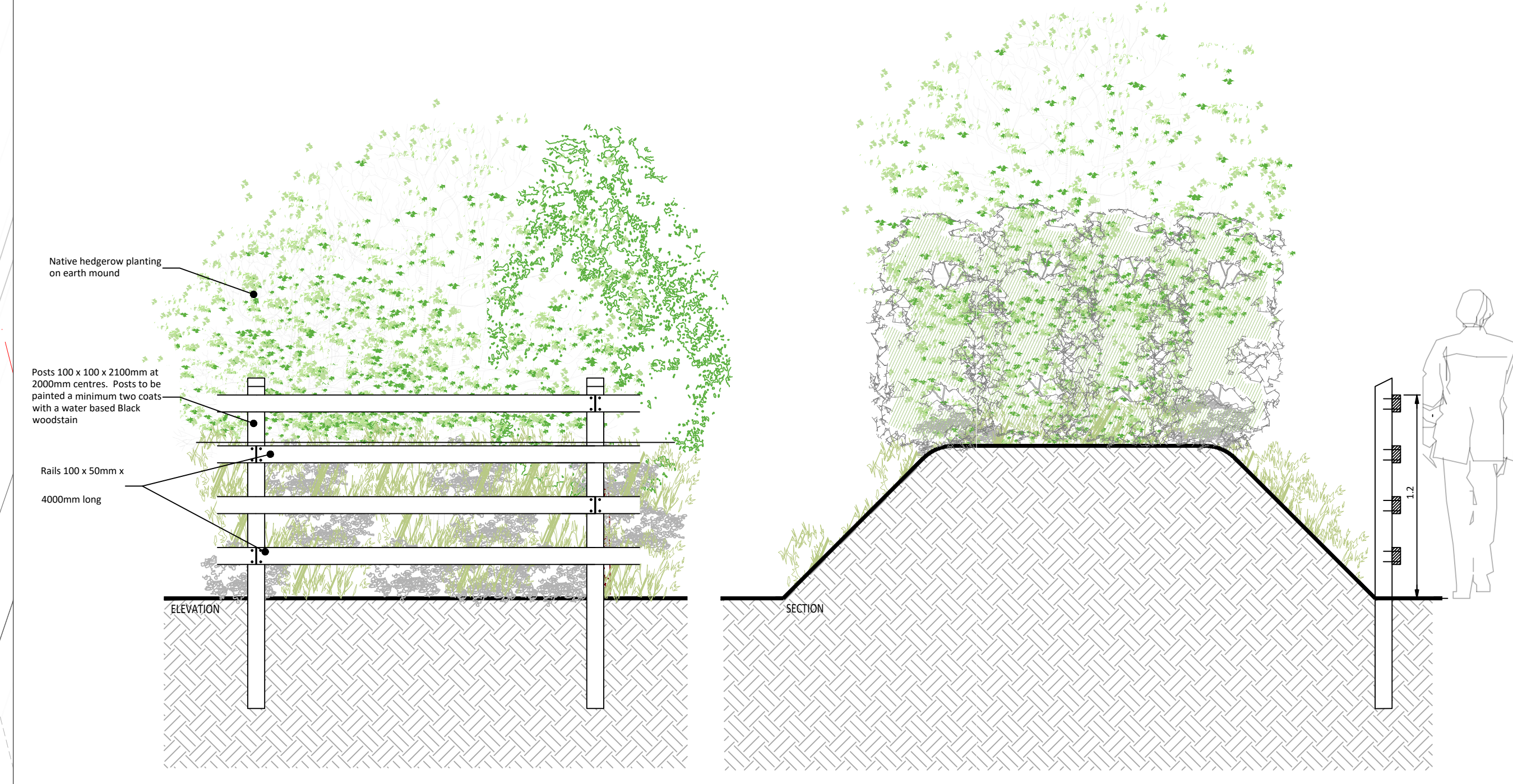




- LEGEND**
- GENERAL**
- Area to Which Application Relates
 - Area Subject of Separate SID Application
 - Proposed Buildings. Refer to RKD-ZZ-DR-A-1010
 - District Heating. Refer to RKD-ZZ-DR-A-1010
 - Above Ground Installations. Refer to RKD-ZZ-DR-A-1010
 - Gas Network Ireland. Refer to RKD-ZZ-DR-A-1010
 - Data Centre. Refer to RKD-ZZ-DR-A-1010
 - Proposed Contours. Refer HDR-XX-DR-C-112210
 - Existing Wayleave. Refer Survey.
 - Existing Water Course. Refer Survey.
 - Existing Pylon. Refer Survey.
 - Existing Fulach Fiadh. Refer Survey.
- BOUNDARY TREATMENTS**
- Existing hedgerows to be retained
 - Existing Individual Trees to be retained
 - Existing Fence to be retained.
 - Existing Fence to be removed.
 - Proposed Security Fence to Arch. Details. Refer RKD-ZZ-DR-A-1400
 - Proposed Post & Rail Fence to Arch. Details. Refer RKD-ZZ-DR-A-1400
 - Proposed 1.2m stone wall. Refer Detail 08, L-0450
 - Proposed Post & Wire Fence to Arch. Details. Refer RKD-ZZ-DR-A-1400
 - Proposed Vegetated Headwall. Refer Detail 02, L-0451
 - Proposed Hedgerow. Refer Detail 02



02 STONE WALL ENTRANCE BOUNDARY TREATMENT



03 POST AND RAIL FENCE AND HEDGEROW BOUNDARY TREATMENT

01 LANDSCAPE BOUNDARY TREATMENT PLAN

0 50 100 150m

PLANNING

Herbata Data Centre Campus

Naas, Co. Kildare

Landscape Boundary Treatments Plan

BSM-ZZ-DR-L-0311

22217

1:500

April 2024

RKD

BSM

DONNACHADH O'BRIEN & ASSOCIATES CONSULTING ENGINEERS