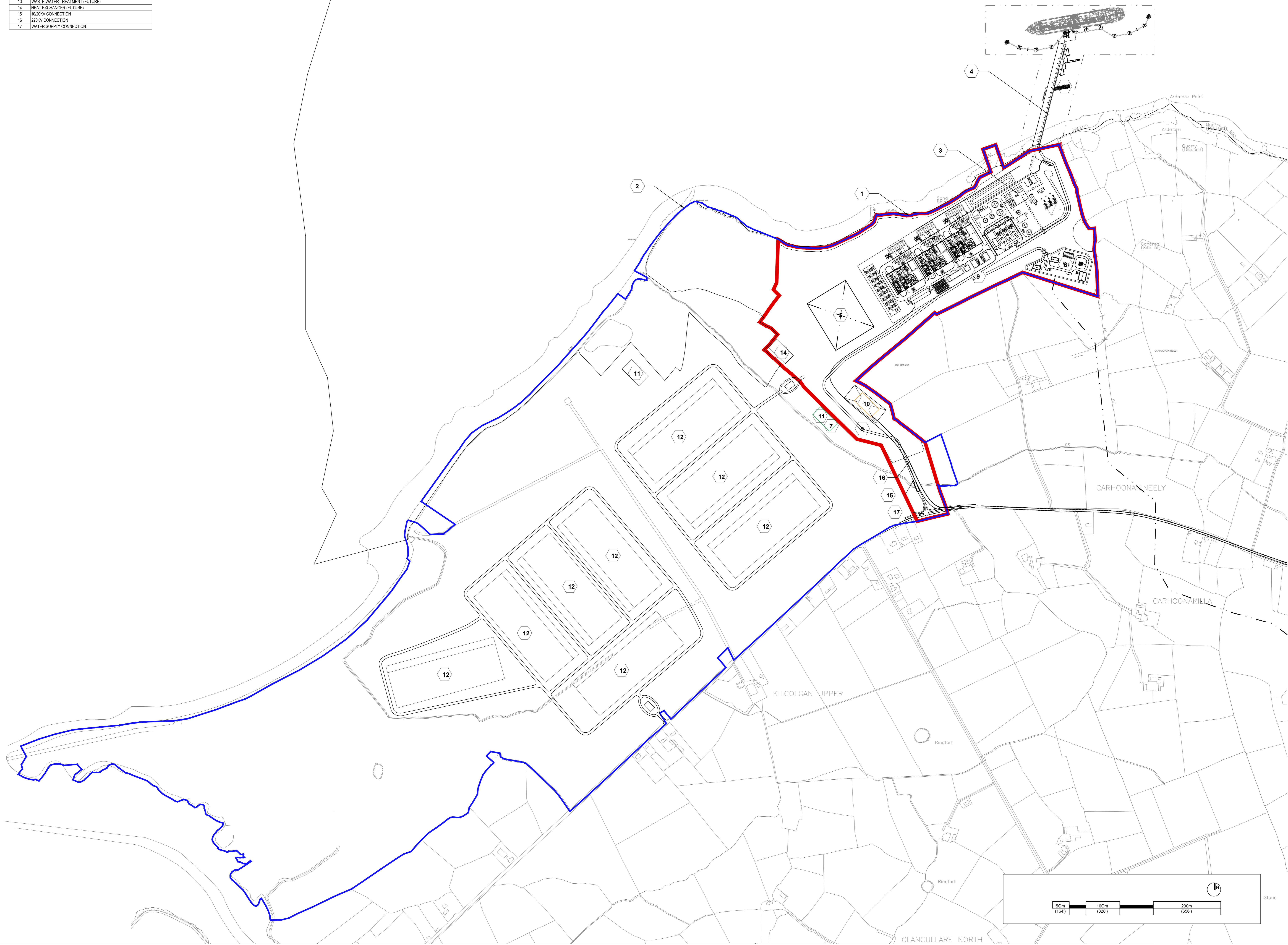


LEGEND

1	PLANNING BOUNDARY (RED LINE)
2	SITE BOUNDARY (BLUE LINE)
3	LNG POWER PLANT, REF. PLANT DRAWINGS FOR DETAILS
4	FSRU JETTY, REF. MARINE DRAWINGS FOR DETAILS
5	CONSTRUCTION LAYDOWN AREA
6	IGN PROCESSING PLANT, REF. IGN DRAWINGS FOR DETAILS
7	DC UPS (FUTURE)
8	SEAWATER PUMP (PREVIOUSLY PERMITTED), REFER MARINE DRAWINGS
9	SITE ROADWAYS, REF. PLANT DRAWINGS FOR DETAILS
10	ERGID SUBSTATION
11	DC SUBSTATION (FUTURE)
12	DATA CENTER (FUTURE)
13	WASTE WATER TREATMENT (FUTURE)
14	HEAT EXCHANGER (FUTURE)
15	102KV CONNECTION
16	220KV CONNECTION
17	WATER SUPPLY CONNECTION



No.	Description	Date

SHEET REVISIONS

ISSUED FOR PLANNING 03/04/2024

PROJECT ISSUANCES

PROJECT:
SHANNON TECHNOLOGY
AND ENERGY PARK (STEP)
POWER PLANT

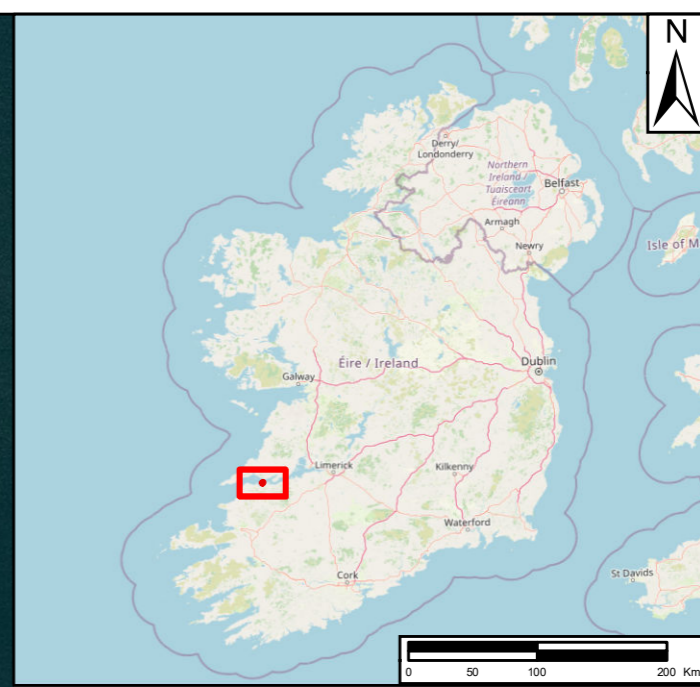
DWG. TITLE
CAMPUS SITE PLAN

PROJECT NO: DWG. NO:
DATE: 03/04/2024 **SP160**
SCALE: 1:4000


SHEET SIZE: A0



File Name: Z:\UK\IED\B1\2\l\l\l\PR-482591_Shannon_LNG_Consultancy_Servic900_CAD_GIS\920_GIS\EI\AR\GIS\02_Maps\2024_Update\Intro\Figure A1-1_Site_Location_20240227.mxd



LEGEND

 Development Boundary

Copyright:
Service Layer Credits: © OpenStreetMap (and) contributors, CC-BY-SA
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Purpose of Issue: **FINAL**

Client: **CONFIDENTIAL**

Project Title:
SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT

Drawing Title:
PROPOSED DEVELOPMENT SITE LOCATION

Drawn: ST	Chk'd: RD	App'd: POC	Date: 27/02/2024
AECOM Internal Project No: PR-482591		Scale at A3: 1:10,000	

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A96 T927, Ireland
T +353-1-238-3100
aecom.com



Drawing No: **FIGURE F2-1** Rev: **0**

0 0.5 1 Km



LEGEND

- Red Line Boundary
- Project Layout



Copyright:
 Service Layer Credits: World Imagery: Maxar, Microsoft

Purpose of Issue: **FINAL**

Client: **CONFIDENTIAL**

Project Title:
SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT

Drawing Title:
SITE LAYOUT

Drawn: JB	Chk'd: RD	App'd: POC	Date: 17/01/2024
AECOM Internal Project No: PR-482591		Scale at A3: 1:10000	

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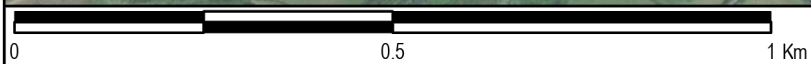
AECOM
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 4th Floor, Adelphi Plaza
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 A96 T927, Ireland
 T +353-1-238-3100
 aecom.com



Drawing No:
FIGURE F2-2

Rev:
0

File Name:



LEGEND

1	PLANNING BOUNDARY (RED LINE)
2	SITE BOUNDARY (BLUE LINE)
3	POWER PLANT, REF. GNI DRAWINGS FOR DETAILS
4	NOT USED
5	CONSTRUCTION LAYDOWN AREA
6	GNI PROCESSING PLANT, REF. GNI DRAWINGS FOR DETAILS
7	NOT USED
8	4.0 M INNER ELECTRIC WIRE FENCE
9	2.9 M OUTER FENCE
10	RETAIN EXISTING VEGETATION +4-5-10M EITHER SIDE OF THE STREAM
11	FUEL OIL STORAGE TANK (TYPICAL OF TWO)
12	FUEL OIL STORAGE DAY TANK (TYPICAL OF THREE)

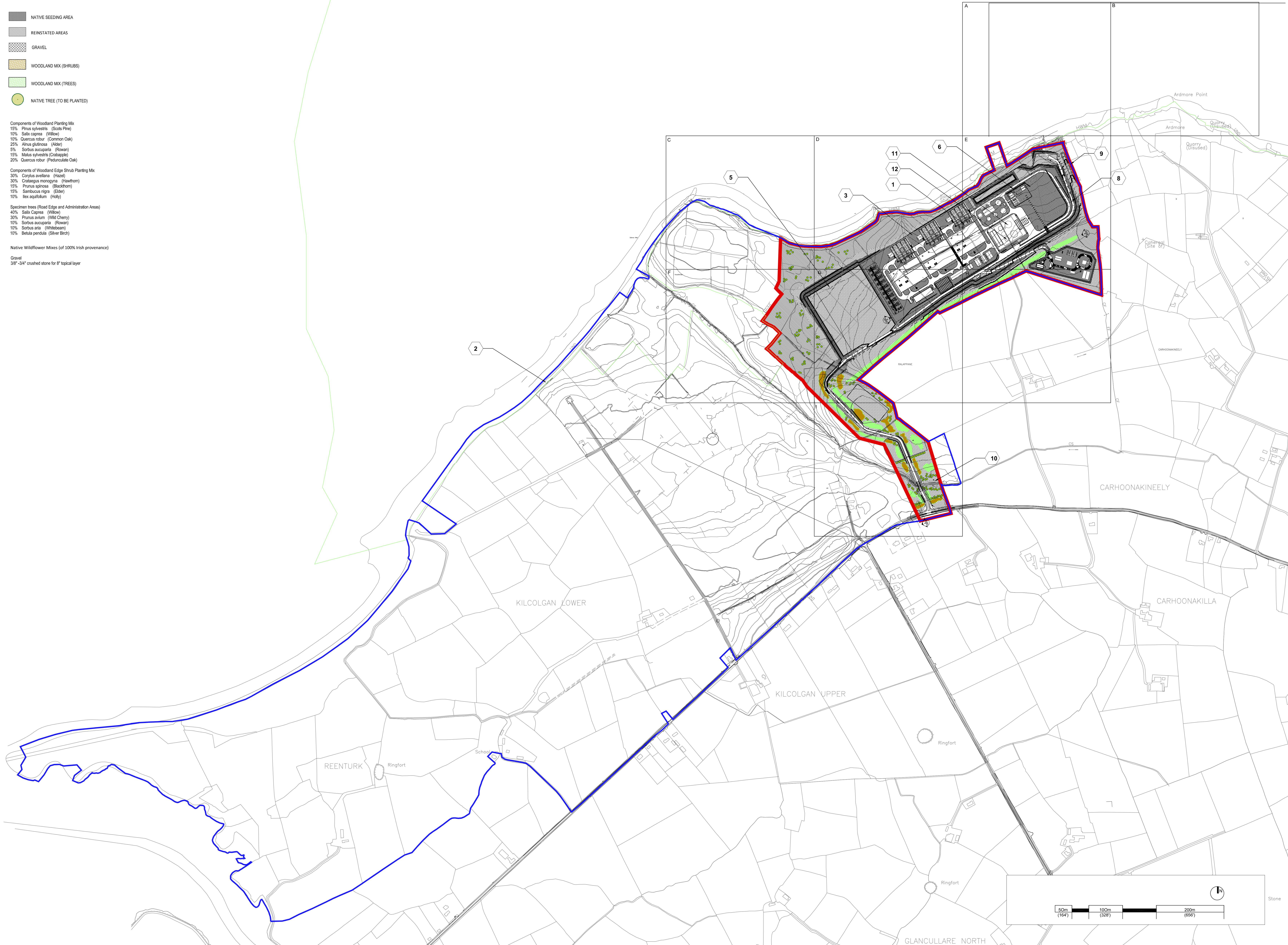
- NATIVE SEEDING AREA
- REINSTATED AREAS
- GRAVEL
- WOODLAND MIX (SHRUBS)
- WOODLAND MIX (TREES)
- NATIVE TREE (TO BE PLANTED)

Components of Woodland Planting Mix
 15% Pinus sylvestris (Scots Pine)
 10% Salix caprea (Willow)
 10% Quercus robur (Common Oak)
 25% Alnus glutinosa (Alder)
 5% Sorbus aucuparia (Rowan)
 15% Malus sylvestris (Crabapple)
 25% Quercus robur (Pedunculate Oak)

Components of Woodland Edge Shrub Planting Mix
 30% Corylus avellana (Hazel)
 30% Crataegus monogyna (Hawthorn)
 15% Prunus spinosa (Blackthorn)
 15% Sambucus nigra (Elder)
 10% Ilex aquifolium (Holly)

Specimen Trees (Road Edge and Administration Areas)
 40% Salix caprea (Willow)
 30% Prunus avium (Wild Cherry)
 10% Sorbus aucuparia (Rowan)
 10% Sorbus aria (Whitebeam)
 10% Betula pendula (Silver Birch)

Native Wildflower Mixes (of 100% Irish provenance)
 Gravel
 3/4" - 3/8" crushed stone for 8" typical layer



No.	Description	Date

SHEET REVISIONS

ISSUED FOR PLANNING: 03/04/2024
PROJECT ISSUANCES

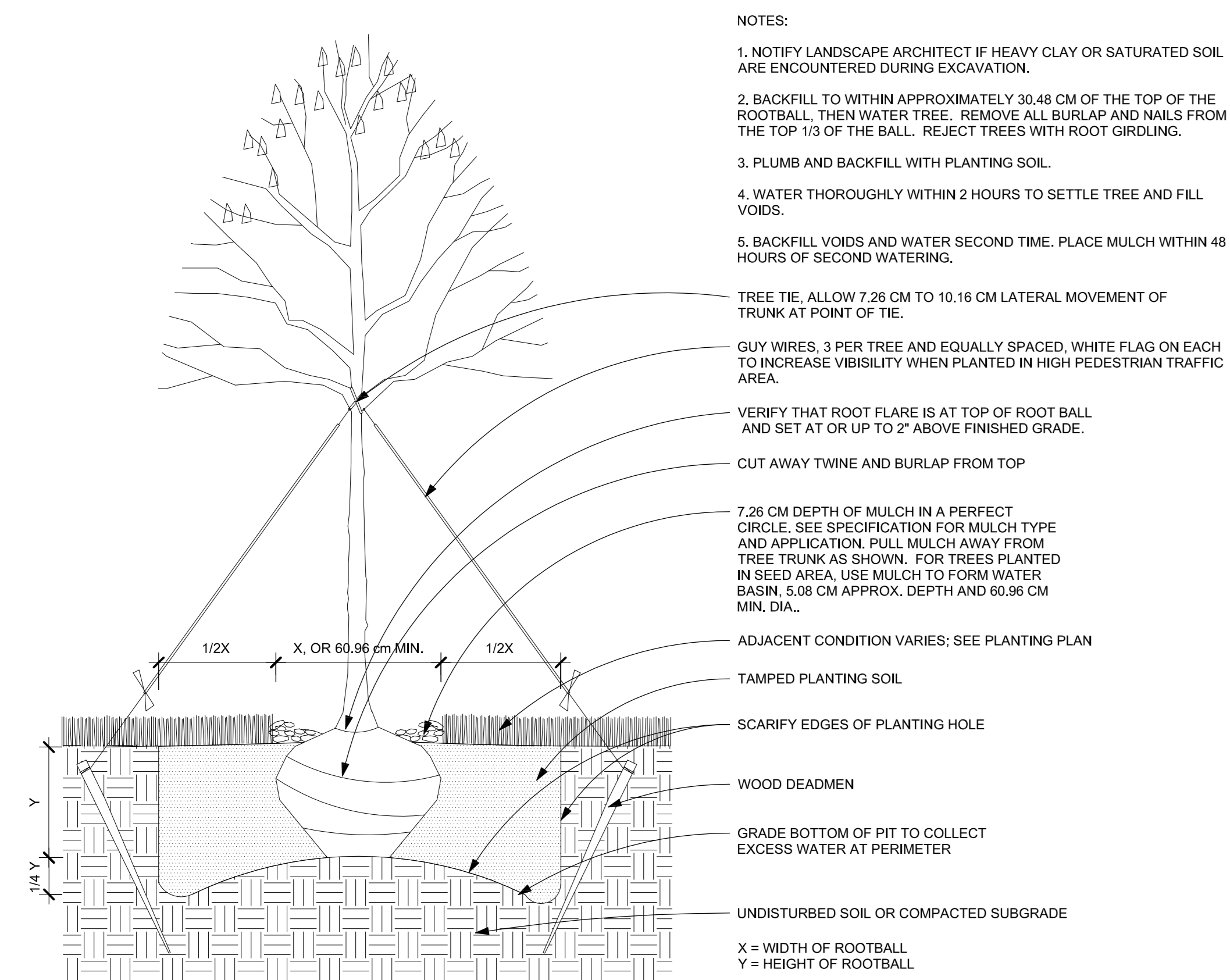
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**SHANNON TECHNOLOGY
 AND ENERGY PARK (STEP)
 POWER PLANT**

DWG. TITLE
**SITE LAYOUT
 PLAN OVERALL**

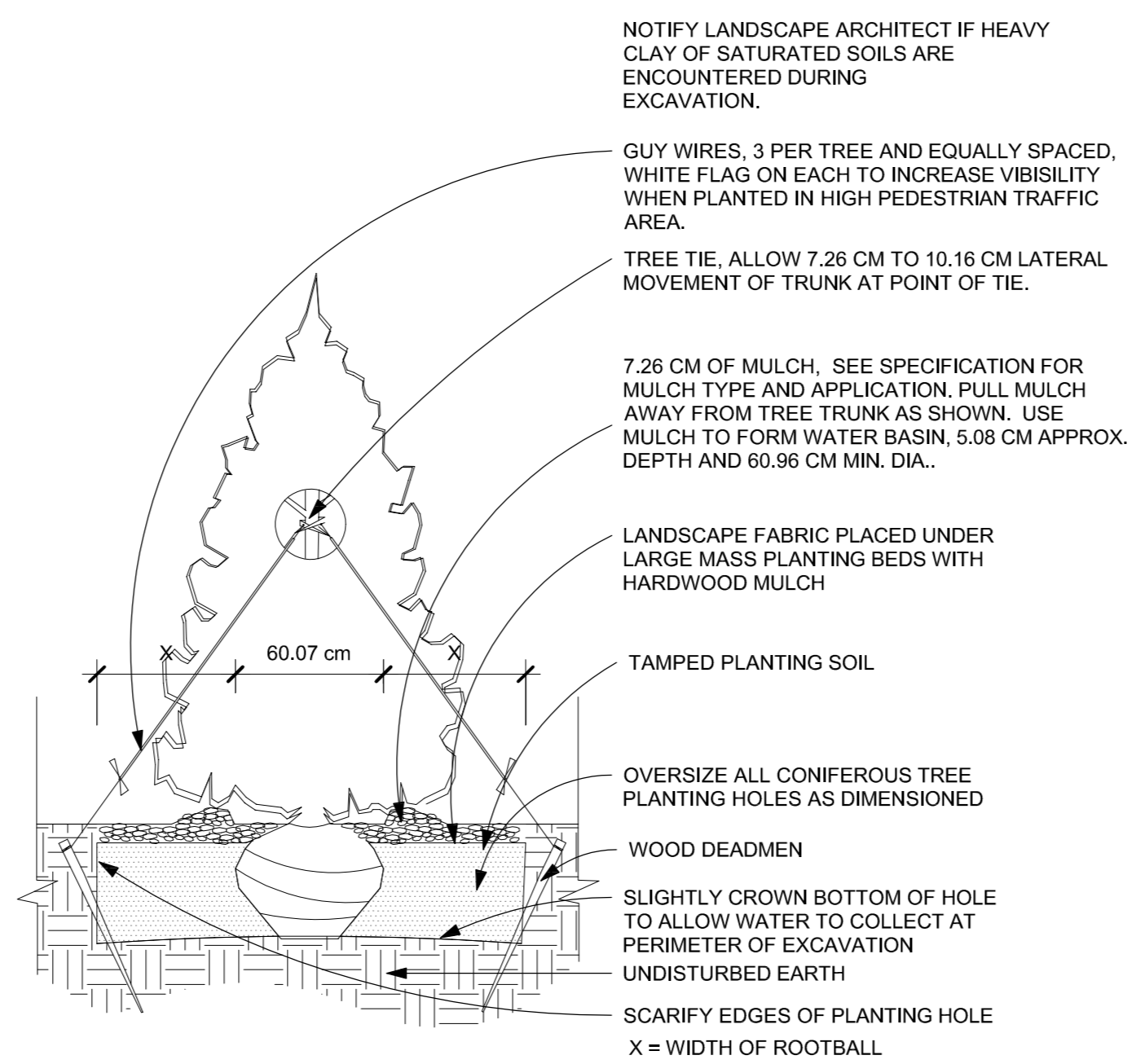
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 DATE: 03/04/2024
 SCALE: 1:4000

DWG. NO:
SP130

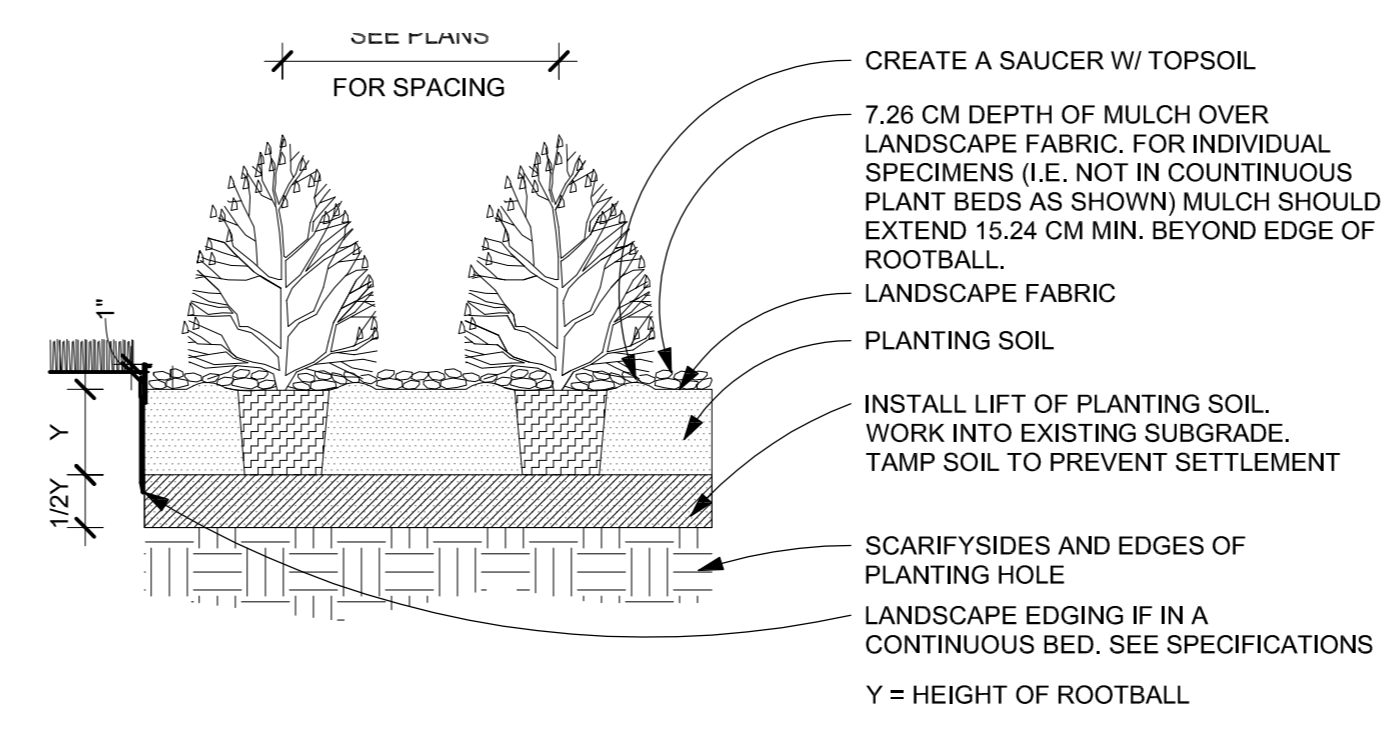
SCALE: Scale as Noted
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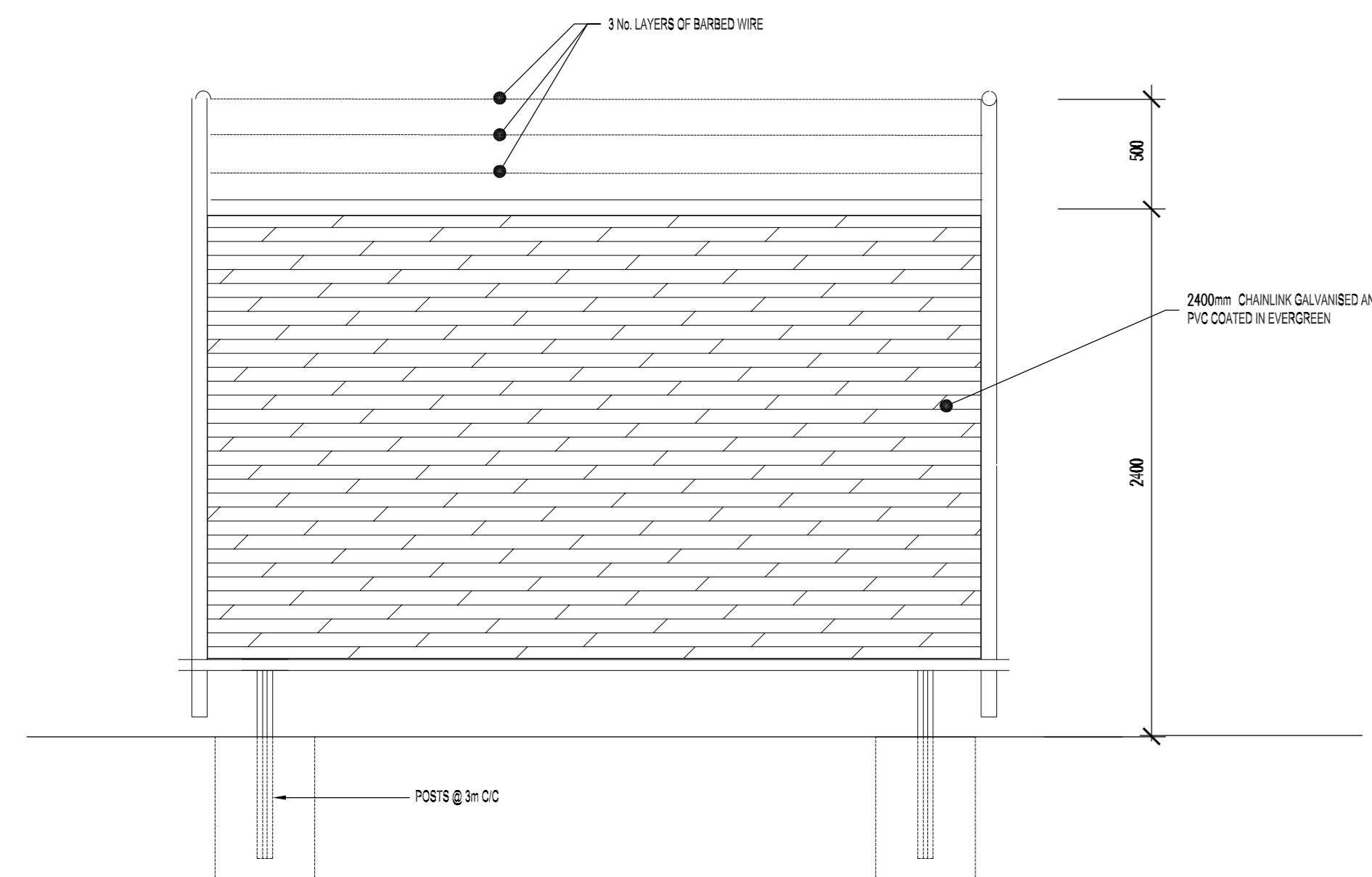
1 DECIDUOUS TREE PLANTING DETAIL
1 : 15



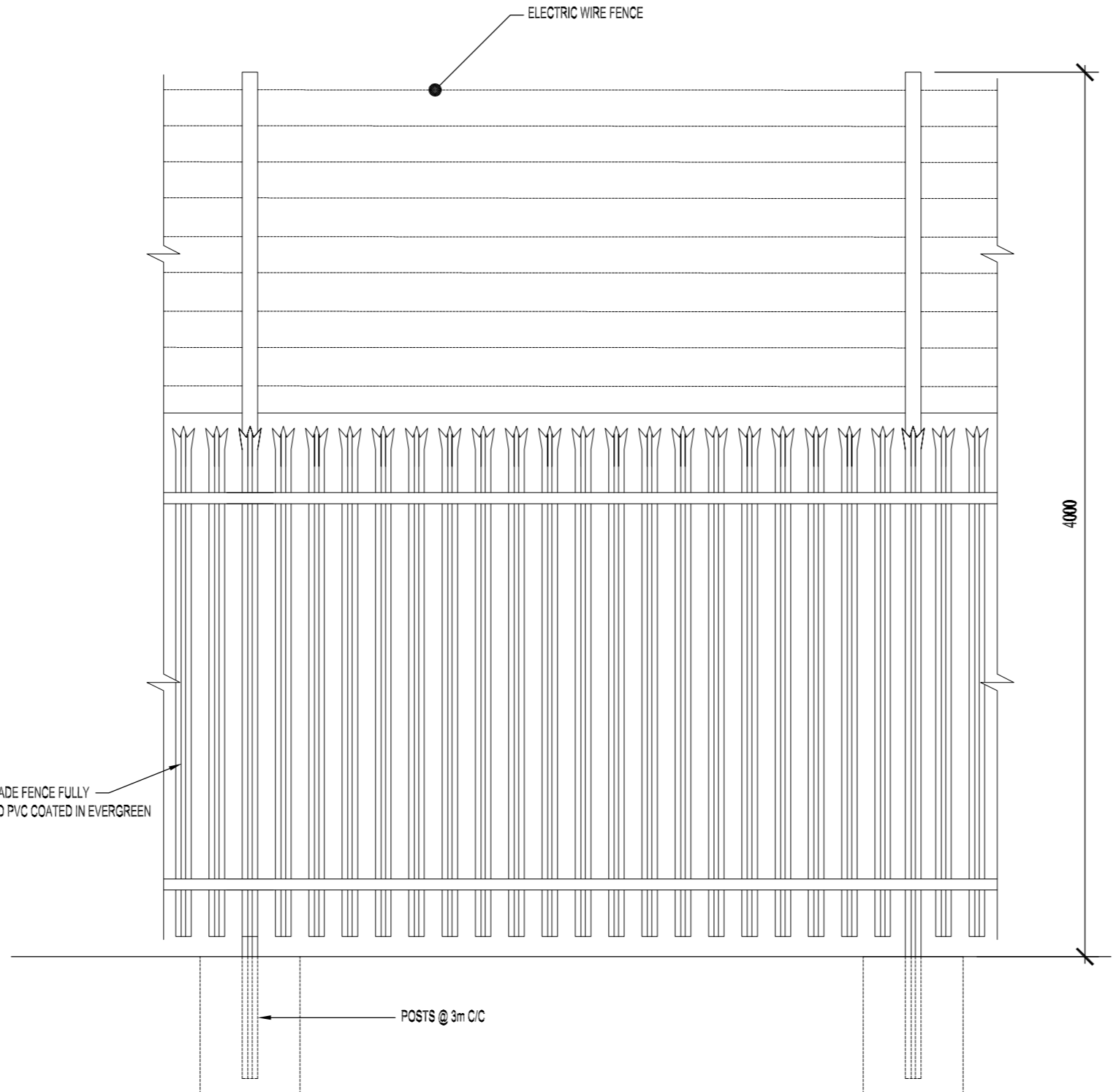
2 CONIFER PLANTING DETAIL
1 : 25



3 SHRUB PLANTING DETAIL
1 : 25



4 PROPOSED 2.9M HIGH CHAINLINK FENCE
1 : 25



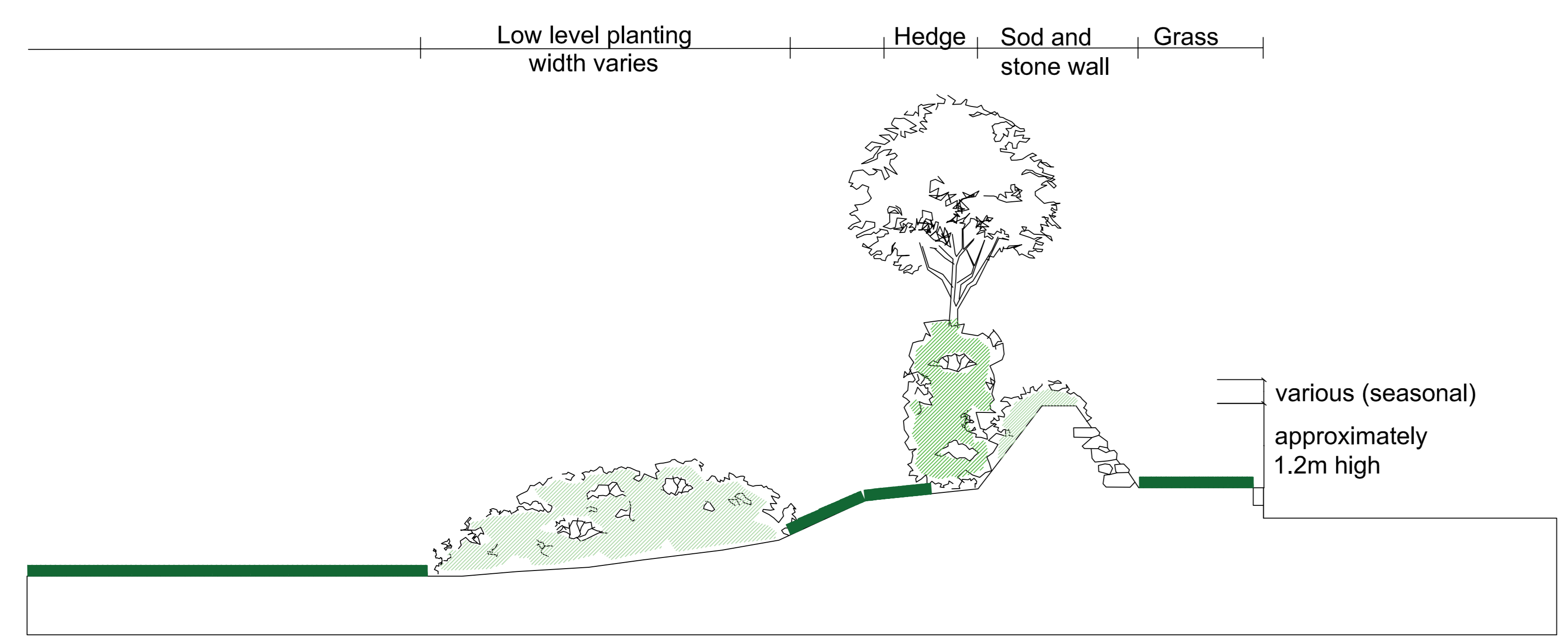
5 PROPOSED 4.0M PALISADE AND ELECTRIC WIRE FENCE DETAIL
1 : 25

No.	Description	Date

SHEET REVISIONS

ISSUED FOR PLANNING: 03/04/2024

PROJECT ISSUANCES



6 LANDSCAPE BERM
1 : 50

PROJECT:

SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT

DWG. TITLE
LANDSCAPE DETAIL

PROJECT NO: 12345
DATE: 03/04/2024
SCALE: 1:500
DWG. NO: SP510
SHEET SIZE: A0



NOTES

- EXISTING CONTOURS AND FEATURES ARE DISPLAYED AS PROVIDED TO BLACK & VEATCH.
- NEW CUT AND FILL SLOPES ARE SHOWN AS 2:2 UNLESS NOTED OTHERWISE.
- COORDINATES SHOWN ARE BASED ON A PLANT GRID SYSTEM. SEE THIS DRAWING FOR CONTROL POINT AND ROTATION TO THE IRISH NATIONAL GRID.

PROJECT SURVEY CONTROL

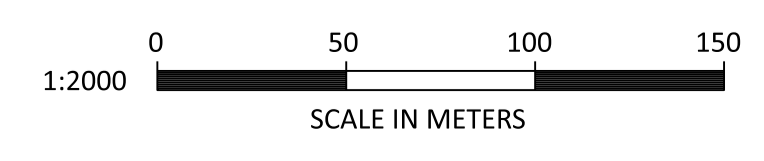
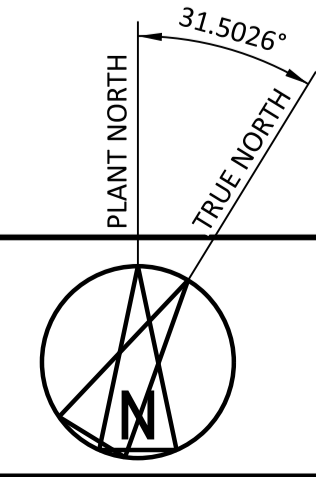
MONUMENT NO.	PLANT COORDINATES		MONUMENT NO.	IRISH NATION GRID COORDINATES		ELEVATION
	NORTHING	EASTING		NORTHING	EASTING	
UNIT 1 STACK	5000	5000	UNIT 1 STACK	148665.605	102453.451	-

NOTE: HORIZONTAL CONTROL IS BASED ON THE IRISH NATIONAL GRID COORDINATE SYSTEM.

MicroStation v8.0.15.0.74
 06/12/2023 06:00 AM File Size 1=1

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP
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2	17/APR/2023	ISSUED FOR PLANNING	PSS	KAR	DAC		
1	18/JUN/2021	ISSUED FOR PLANNING	TAH	JDA	DAC		
0	30/APR/2021	ISSUED FOR PLANNING	JRH	JDA	DAC		

DRN	DES	CHK	PDE	APP



BLACK & VEATCH CORP HEADQUARTERS:
11401 LAMAR AVENUE, OVERLAND PARK,
KANSAS, USA

BLACK & VEATCH

DESIGNER: JDA DRAWN: JRH
CHECKED: DATE

SHANNON LNG LIMITED
SHANNON TECHNOLOGY AND ENERGY PARK (STEP)
OVERALL SITE ARRANGEMENT

PROJECT: 198291-1GSU-G1003
DRAWING NUMBER: 3
REV: 3

NOT TO BE USED FOR CONSTRUCTION

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LEGEND

- 01) Outfall discharge point
- 02) Firewater retention pond
- 03) Fuel gas regulating buildings
- 04) Fuel gas instrument enclosure
- 05) Fuel gas heaters
- 06) Raw water tanks
- 07) Raw water treatment building
- 08) Demineralized water storage tanks
- 09) Secondary fuel storage day tanks
- 10) Secondary fuel storage tanks
- 11) Fuel oil forwarding pump building
- 12) Fuel oil truck unloading area
- 13) Centrifuge and fuel oil unloading pump building
- 14) Security building
- 15) AGI access road
- 16) Control and instrumentation building
- 17) Gas chromatography building
- 18) Regulator building
- 19) Package boiler unit
- 20) Metering building
- 21) Administration
- 22) Power plant control room
- 23) Auxiliary boiler exhaust stack
- 24) Auxiliary boiler exhaust building
- 25) Canteen and stores
- 26) Site access road
- 27) Air cooled heat exchangers
- 28) Generator step up transformer (GSU)
- 29) 220KV GIS substation
- 30) Turbine hall
- 31) Air cooled condenser
- 32) HSRG exhaust stack
- 33) BESS step up transformer
- 34) Battery Energy Storage System (BESS)
- 35) Construction laydown area



Copyright:
Service Layer Credits:

Purpose of Issue: **FINAL**

Client: **CONFIDENTIAL**

Project Title:
SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT

Drawing Title:
PROPOSED DEVELOPMENT

Drawn: TS	Chk'd: RD	App'd: POC	Date: 17/01/2024
AECOM Internal Project No: PR-482591		Scale at A3: 1:10000	

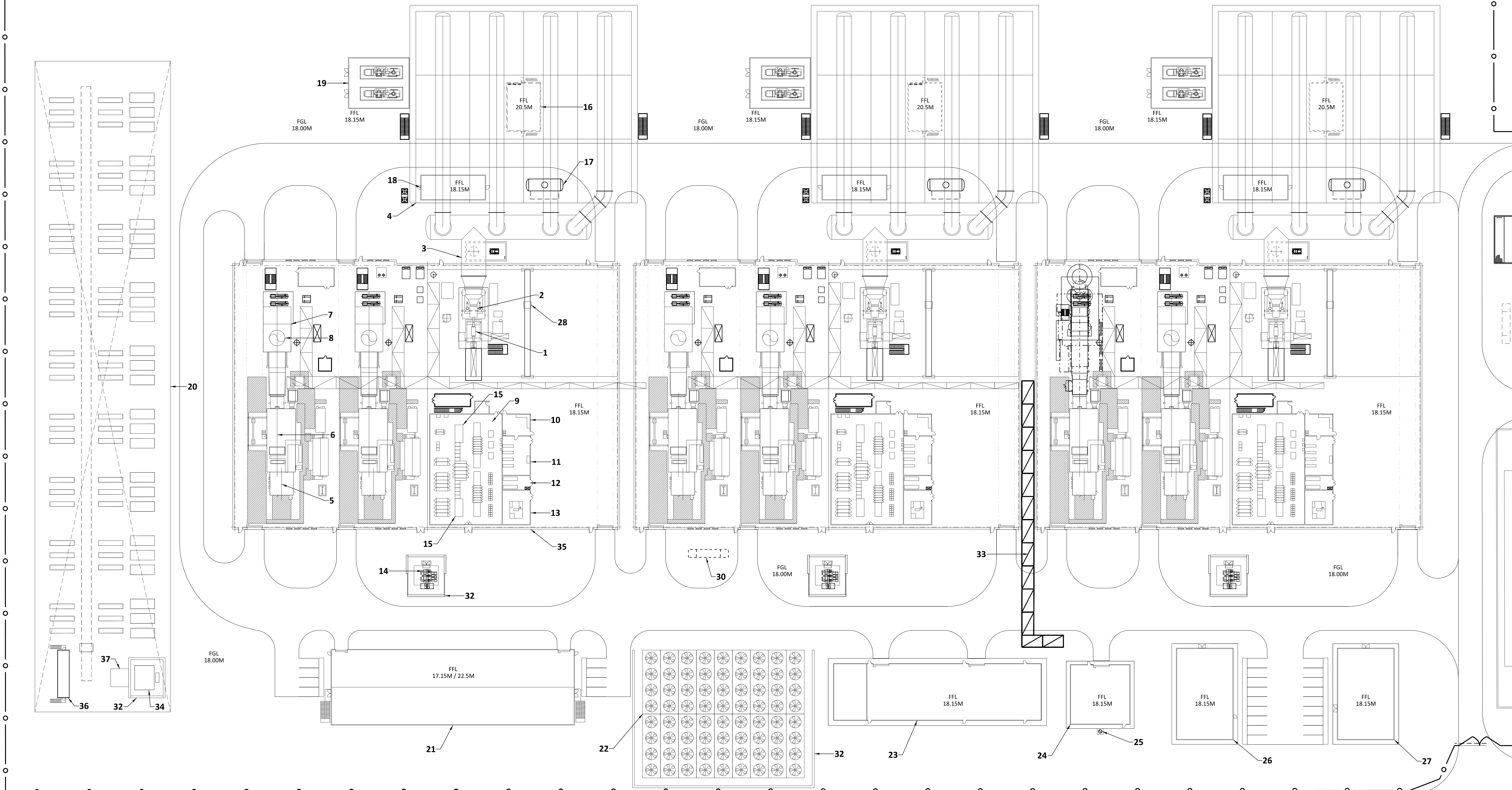
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Drawing No: FIGURE F2-4	Rev: 0
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ITEM NO.	EQUIPMENT IDENTIFICATION
1	STEAM TURBINE GENERATOR
2	STEAM TURBINE
3	STEAM TURBINE EXHAUST DUCT
4	AIR COOLED CONDENSER
5	COMBUSTION TURBINE GENERATOR
6	COMBUSTION TURBINE
7	HEAT RECOVERY STEAM GENERATOR
8	HRS EXHAUST STACK
9	ELECTRICAL EQUIPMENT ROOM
10	AUXILIARY CONTROL ROOM
11	DCS ROOM
12	BATTERIES ROOM
13	STANDBY DIESEL GENERATOR ROOM
14	GENERATOR STEP-UP TRANSFORMER
15	AUXILIARY TRANSFORMER
16	ACC ELECTRICAL EQUIPMENT POWER DISTRIBUTION CENTER
17	CONDENSATE COLLECTION TANK
18	CONDENSATE POLISHING EQUIPMENT ENCLOSURE
19	ACC AIR EXTRACTION EQUIPMENT ENCLOSURE
20	BATTERY ENERGY STORAGE SYSTEM (BESS) EQUIPMENT AREA
21	ELECTRICAL (GIS) SUBSTATION BUILDING
22	AIR COOLED HEAT EXCHANGERS
23	WORKSHOP/STORES/CANTEEN
24	AUXILIARY BOILER BUILDING
25	AUXILIARY BOILER EXHAUST STACK
26	CENTRAL CONTROL/OPERATIONS BUILDING
27	ADMINISTRATION BUILDING
28	OVERHEAD CRANE
29	INDICATIVE ELECTRICAL GRID INTERFACE BUILDING
30	OIL/WATER SEPARATOR
31	RETAINING WALL
32	SOUND RETENTION WALL
33	UTILITY RACK
34	BESS STEP-UP TRANSFORMER
35	TURBINE HALL (TYP OF 3)
36	BESS POWER DISTRIBUTION CENTER
37	BESS AUXILIARY POWER TRANSFORMER



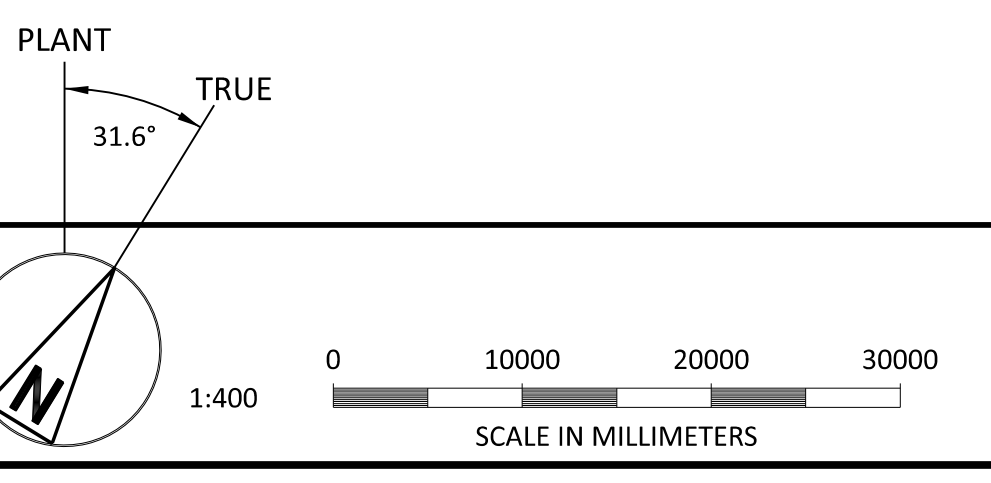
- NOTES.
- THE FINISHED SURFACE LEVEL (FSL) OR PLATFORM FOR THE POWER PLANT, IS +12M ABOVE ORDINANCE DATUM (AOD).
 - THE PROPOSED FINISHED GRADE LEVEL (FGL) ARE IDENTIFIED THRU OUT THE PERIMETER OF THE POWER BLOCK AREA.
 - THE PROPOSED FINISHED FLOOR LEVEL (FFL) ARE IDENTIFIED WITHIN THE BUILDING STRUCTURES.
 - SEE DRAWING 198291-1GSU-G1003 FOR SITE ARRANGEMENT.

NOT TO BE USED FOR CONSTRUCTION

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198291-1GSU-G1003
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1	18/JUN/2021	ISSUED FOR PLANNING	TMC	DIL		DAC	
0	30/APR/2021	ISSUED FOR PLANNING	TMC	DIL		DAC	



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11401 LAMAR AVENUE, OVERLAND PARK,
KANSAS, USA

BLACK & VEATCH

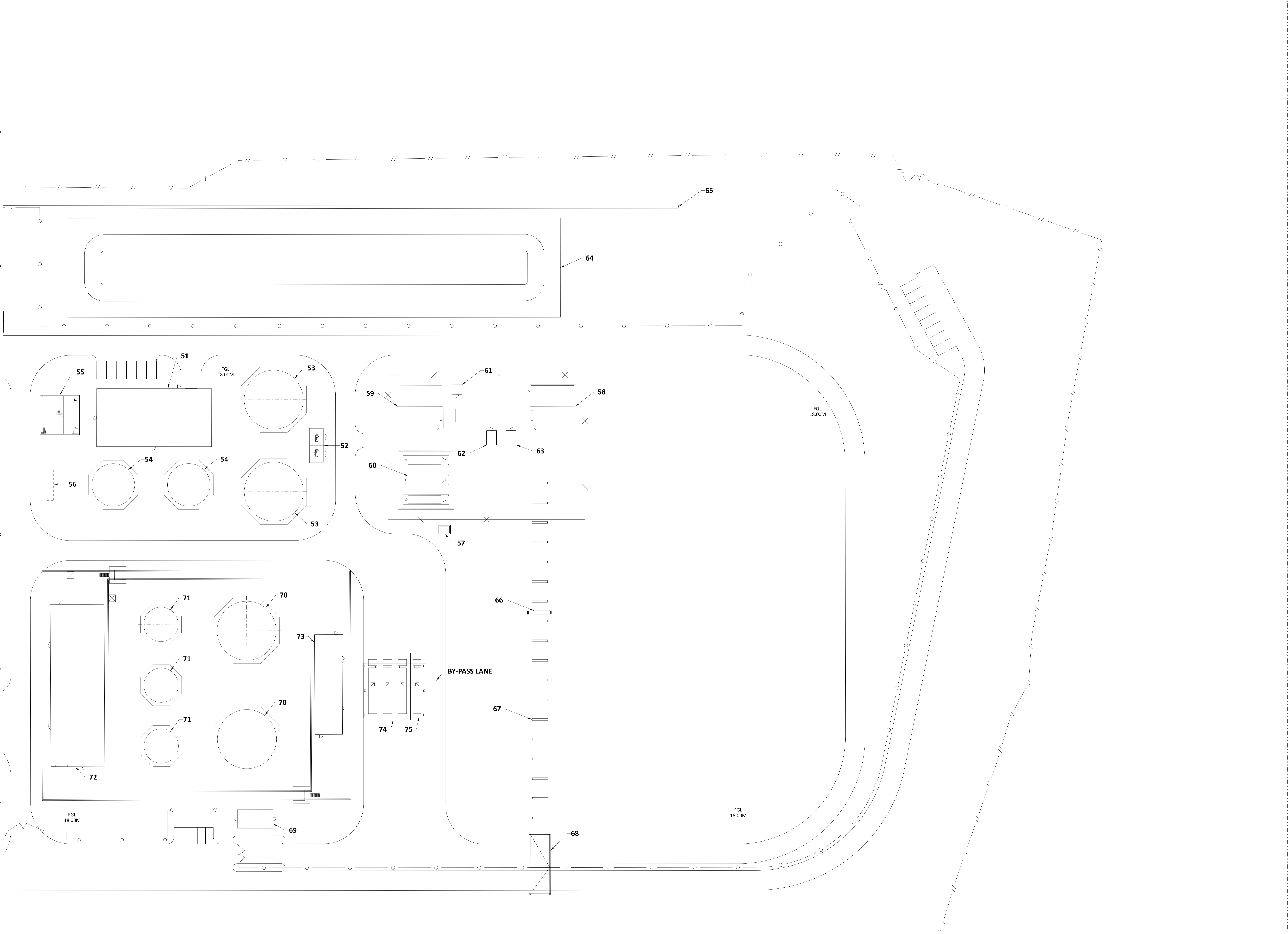
DESIGNER: [] DRAWN: []
CHECKED: [] DATE: []

SHANNON LNG LIMITED
SHANNON TECHNOLOGY AND ENERGY PARK (STEP)
GENERAL ARRANGEMENT
COMBINED CYCLE POWER PLANT
MAIN POWER BLOCK AREA

PROJECT: 198291-1GSU-G2001
DRAWING NUMBER: 198291-1GSU-G2001
REV: 2

1 2 3 4 5 6 7 8 9 10

A
B
C
D
E
F
G



ITEM NO.	EQUIPMENT IDENTIFICATION
51	WATER TREATMENT BUILDING
52	FIRE WATER PUMPS ENCLOSURE
53	RAW/SERVICE/FIRE WATER STORAGE TANK
54	DEMINEALIZED WATER STORAGE TANK (TYP OF 2)
55	EFFLUENT SUMP
56	OIL/WATER SEPARATOR
57	WASTEWATER TREATMENT EQUIPMENT PACKAGE
58	FUEL GAS METERING ENCLOSURE
59	FUEL GAS REGULATING ENCLOSURE
60	FUEL GAS HEATER - WATER BATH TYPE (TYP OF 3)
61	KIOSK ENCLOSURE - METERING AND REGULATING AREA
62	ANALYZER ENCLOSURE - METERING AND REGULATING AREA
63	INSTRUMENT ENCLOSURE - METERING AND REGULATING AREA
64	FIRE WATER RETENTION POND
65	RETAINING WALL
66	CROSSOVER PLATFORM
67	UTILITY SLEEPER
68	UTILITY RACK
69	SECURITY BUILDING
70	FUEL OIL STORAGE TANK (TYP OF 2)
71	FUEL OIL STORAGE DAY TANK (TYP OF 3)
72	FORWARDING PUMP BUILDING
73	CENTRIFUGE AND FUEL OIL UNLOADING PUMP BUILDING
74	FUEL OIL TRUCK UNLOADING AREA
75	FUEL OIL TRUCK UNLOADING SHELTER

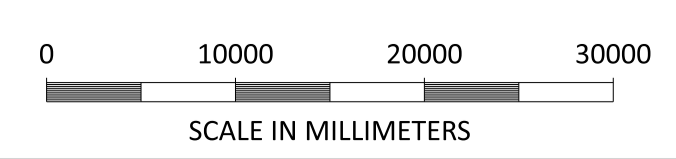
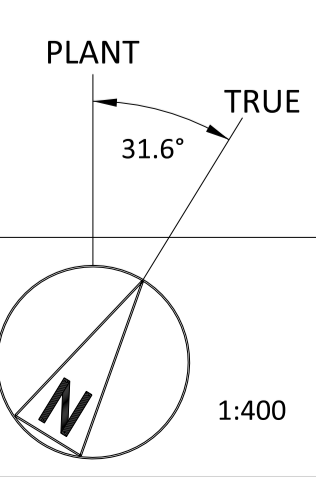
NOTES:
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NOT TO BE USED FOR CONSTRUCTION

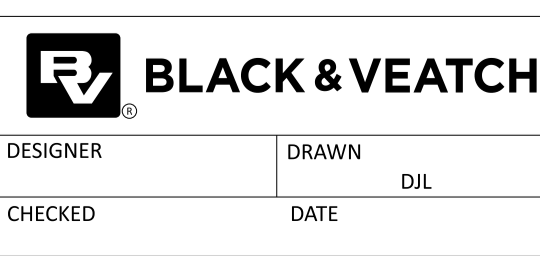
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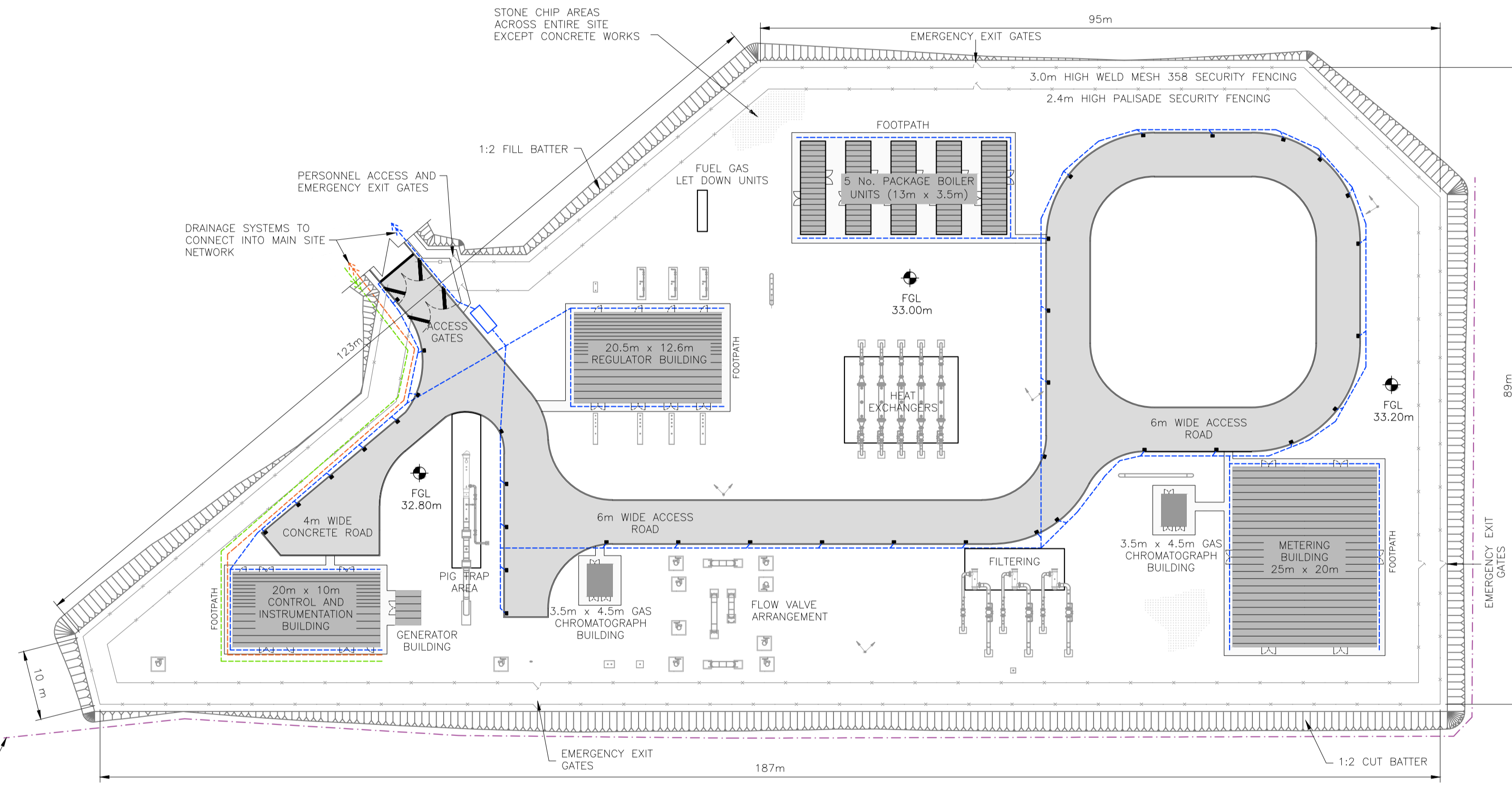
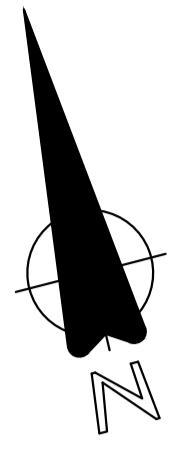
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1	18/JUN/2021	ISSUED FOR PLANNING	TMC	DIL	DAC		
0	30/APR/2021	ISSUED FOR PLANNING	TMC	DIL	DAC		



BLACK & VEATCH CORP HEADQUARTERS:
11401 LAMAR AVENUE, OVERLAND PARK,
KANSAS, USA



DESIGNER	DRAWN	DIL	PROJECT	DRAWING NUMBER	REV
CHECKED	DATE		SHANNON LNG LIMITED SHANNON TECHNOLOGY AND ENERGY PARK (STEP)	198291-1GSU-G2002	3
			GENERAL ARRANGEMENT COMBINED CYCLE POWER PLANT BALANCE OF PLANT AREA	CODE	
				AREA	



SITE LAYOUT
SCALE 1:500

NOTES

- LEGEND
- DENOTES U/G SURFACE WATER DRAIN
 - DENOTES OPEN CUT-OFF DRAIN
 - DENOTES U/G FOUL WATER DRAIN
 - DENOTES U/G POTABLE WATER MAIN
 - DENOTES U/G KLARGESTER SEPARATOR OR SIMILAR
 - DENOTES ROAD GULLY
 - TWO 200W LED LIGHTS ON A 8.5 METER ROUND GALVANIZED STEEL POLE WITH TOP TENDON

ISSUE FOR PLANNING

Applicant
Shannon LNG Limited

REV.	DATE	REVISION	BY	CHKD.	APPR.
2	29/05/23	ISSUE FOR PLANNING	JD	VOH	BF
1	24/03/21	ISSUE FOR PLANNING	MAH	MC	BF
0	02/10/20	CONCEPTUAL ISSUE	MAH	MC	BF

Client
Gas Networks Ireland
GAS NETWORK IRELAND
P.O. BOX 51, Gasworks Road, Cork
Rep of Ireland
T: +353 21 4534000
F: +353 21 4534001

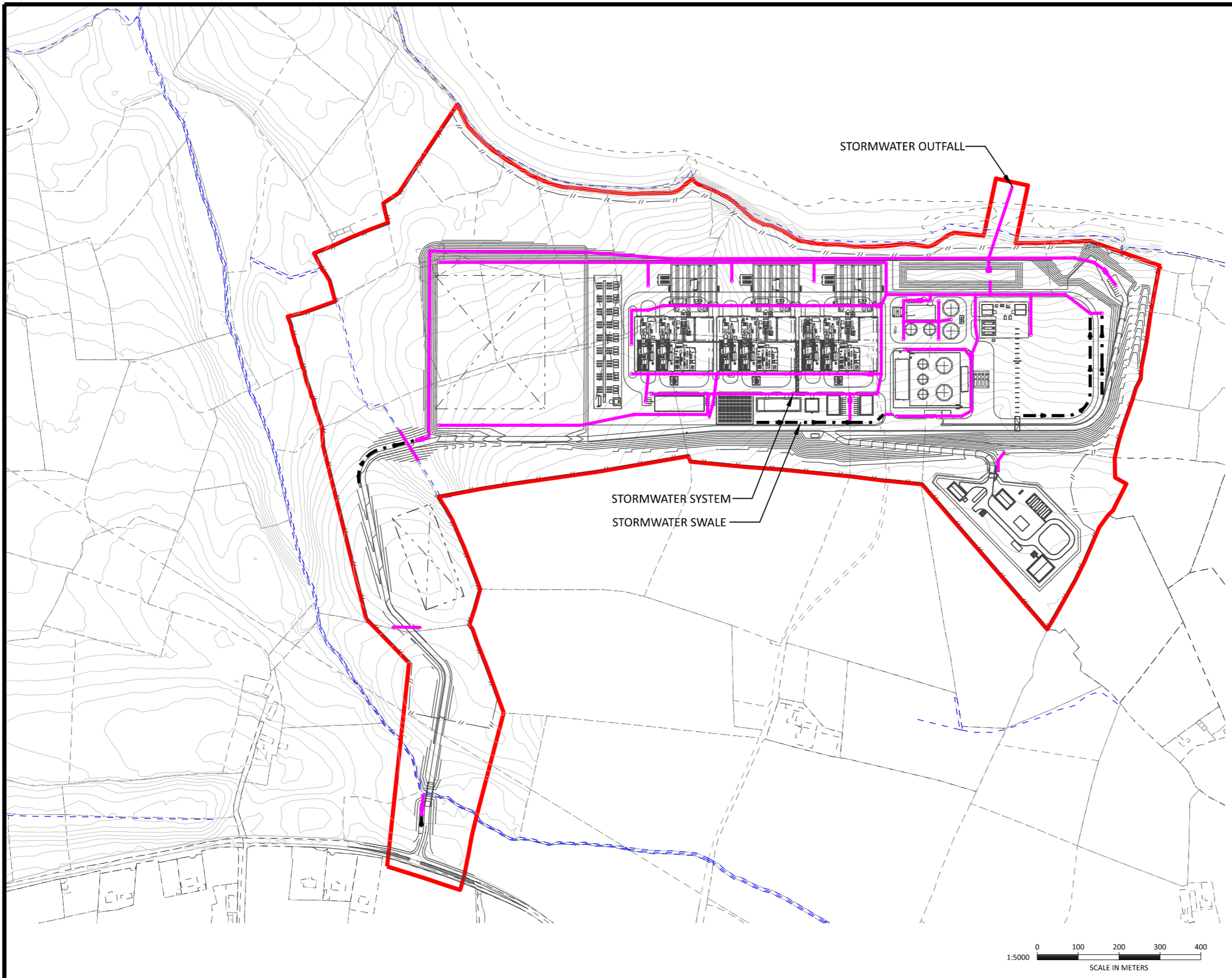
Consultant
Fingleton White
Bridge Street Centre
Portlaoise
Co. Laois
R32 W0CC
Ireland
T: (00353)057 866 5400
www.fingleton.ie

Project
SHANNON TECHNOLOGY AND ENERGY PARK (STEP)

Title
RALAPPANE AGI - SITE LAYOUT

Drawn	Scale	Drawing Number	Rev.
J. DELANEY	1:500/A1	1227-02-DG-0001	2
Checked V. O'HARA	Date 19/06/2023		
Approved B. FINGLETON	Status ISSUED		

Pat114236
 03/12/2024 08:33 PM
 MicroStation v10.15.0.74
 Full Size 1 = 1



LEGEND

- STORMWATER SYSTEM
- - - STORMWATER SWALE

STORMWATER OUTFALL

STORMWATER SYSTEM

STORMWATER SWALE

31.5026°

PLANT NORTH

TRUE NORTH

N

0 100 200 300 400

1:5000

SCALE IN METERS

A			DSP						
NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP		

BLACK & VEATCH

DESIGNER: [] DRAWN: DSP

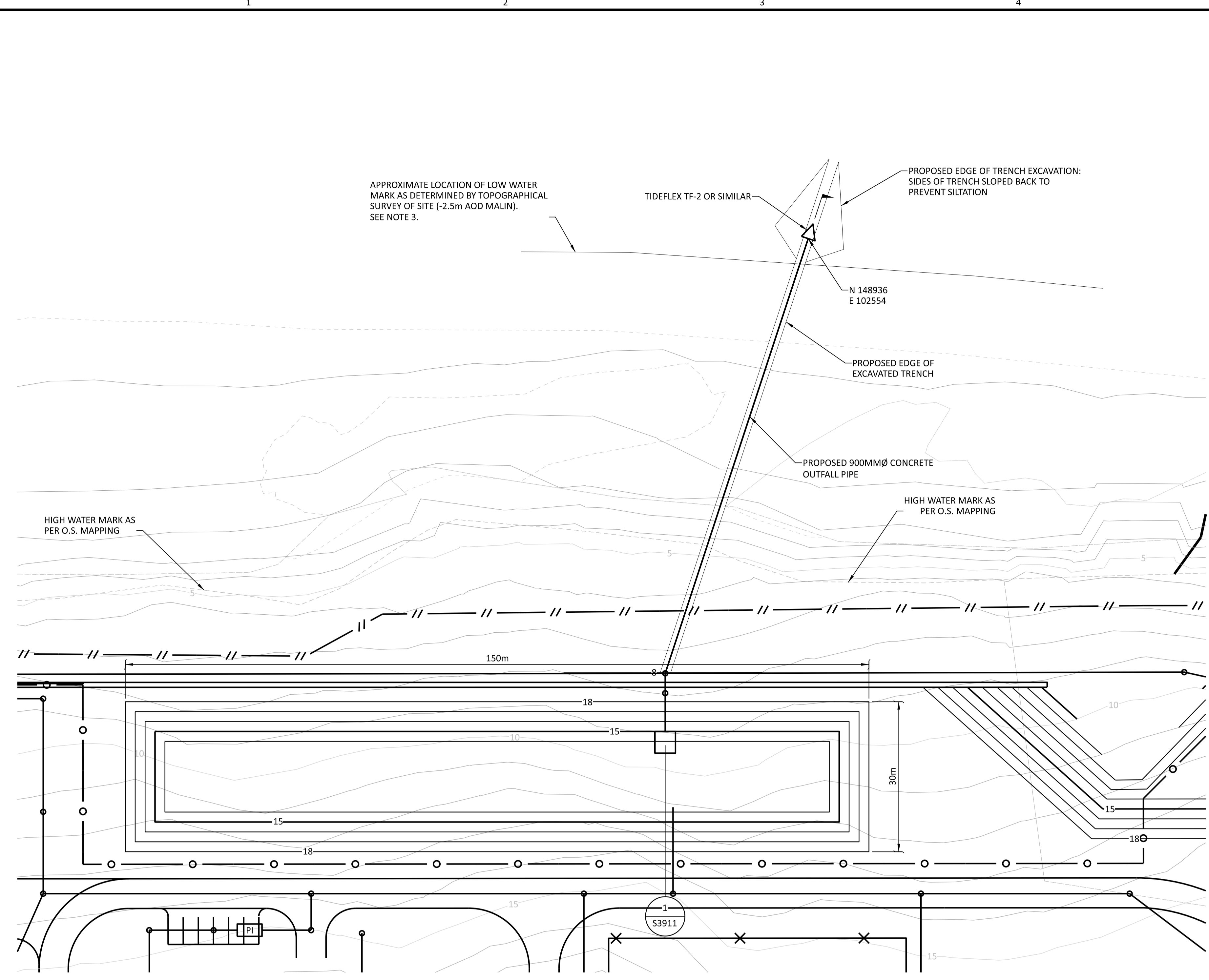
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SHANNON LNG LIMITED

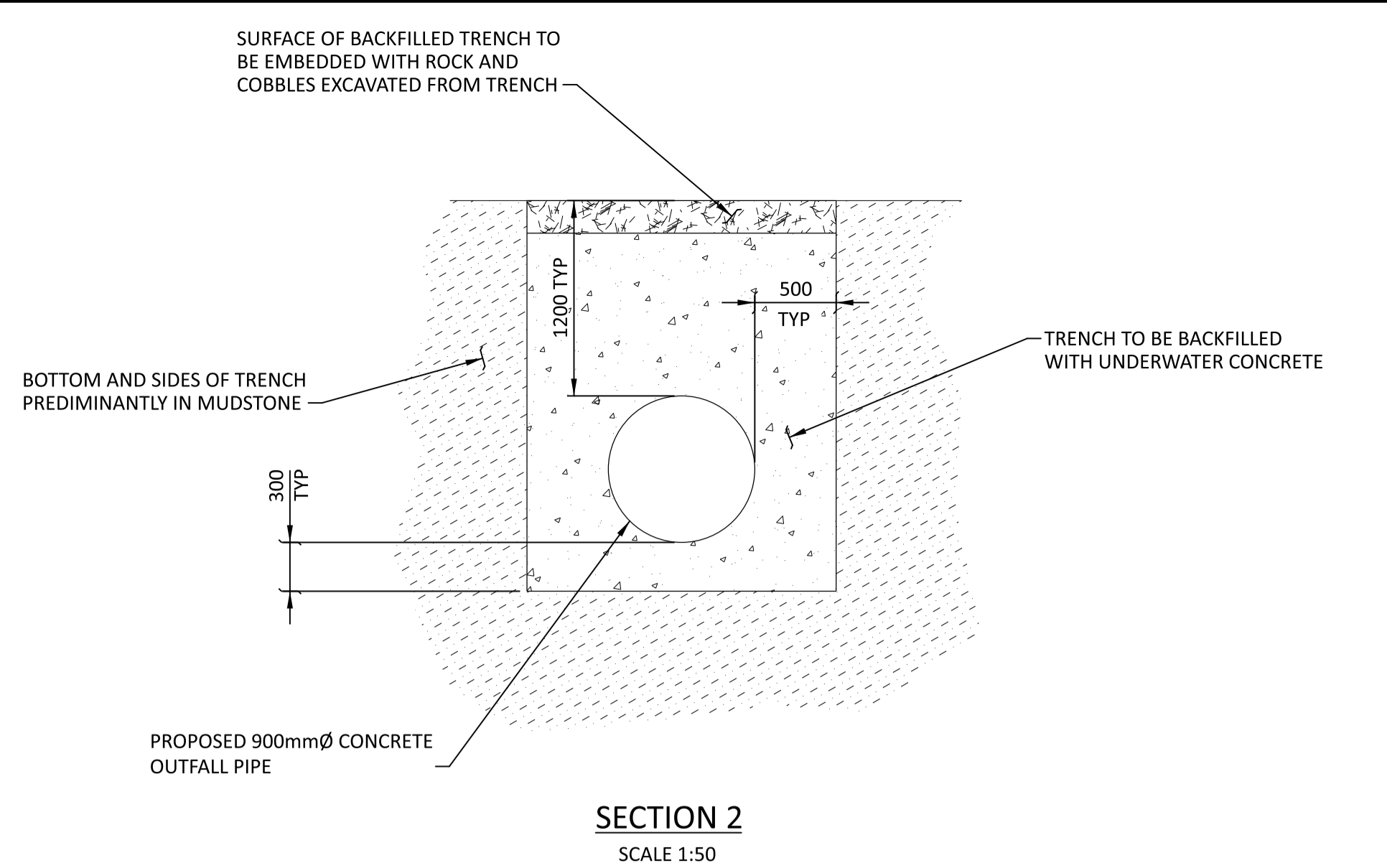
SHANNON TECHNOLOGY AND ENERGY PARK (STEP)

OVERALL SITE DRAINAGE SYSTEM

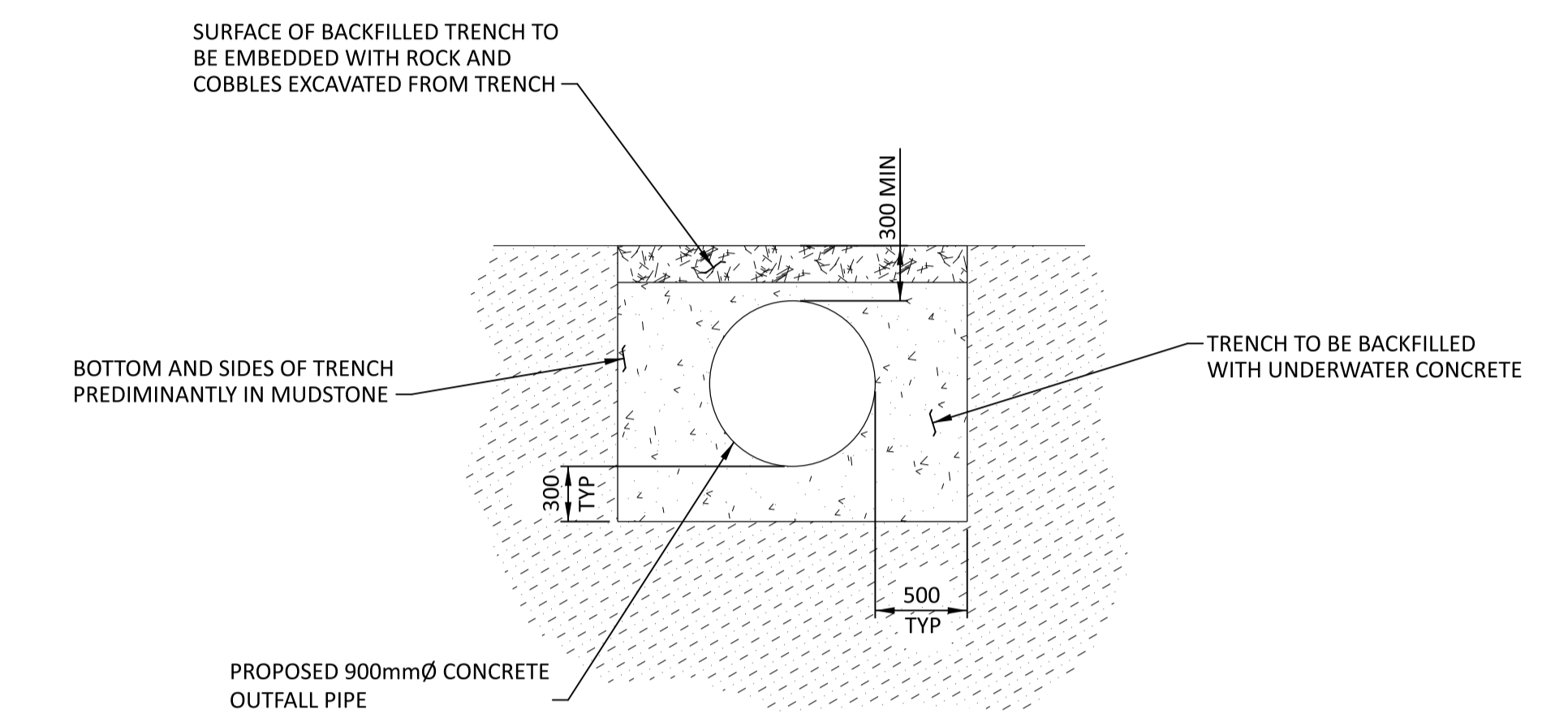
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198291-FIGURE 2-5		A
CODE	FIGURE F2-5	
AREA		



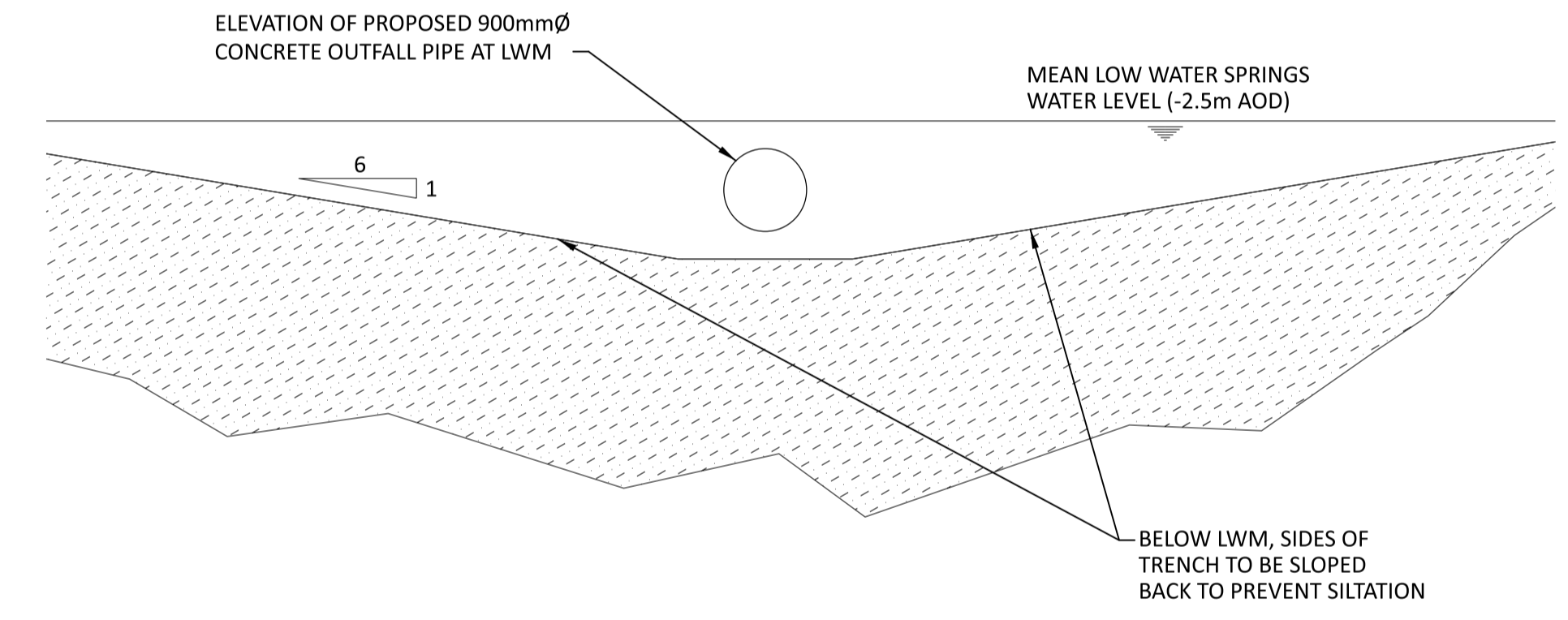
PLAN
SCALE 1:500



SECTION 2
SCALE 1:50



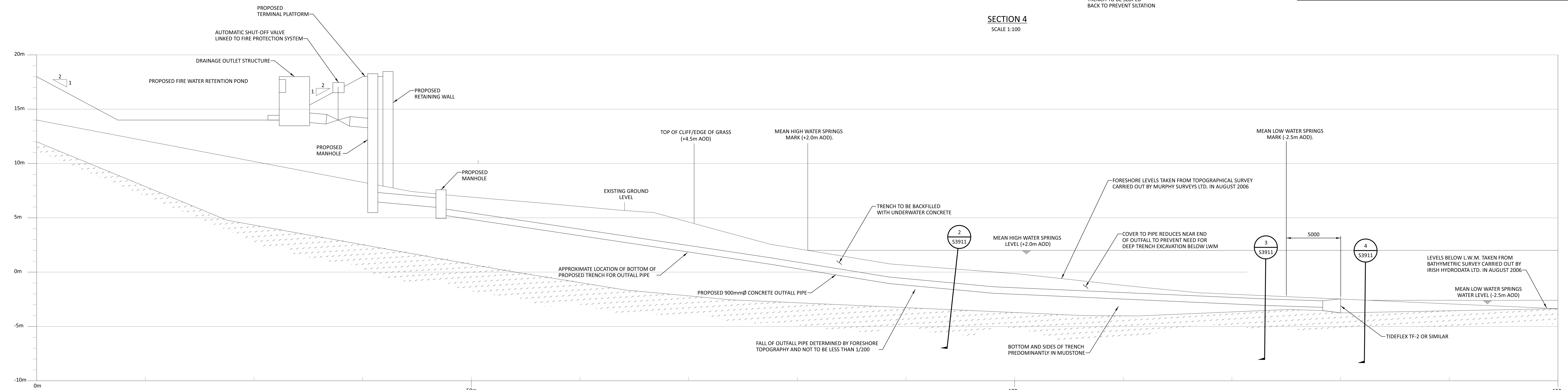
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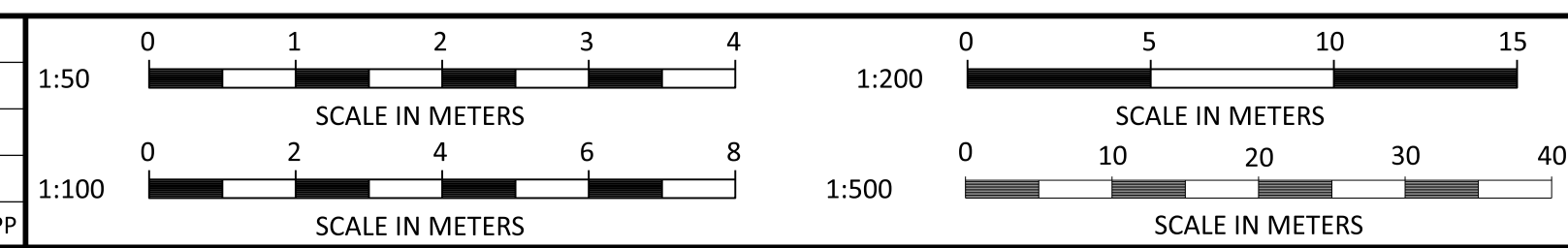
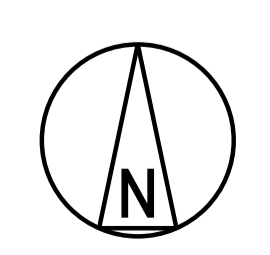
SECTION 4
SCALE 1:100

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- DRAWINGS FOR PLANNING PURPOSES ONLY, NOT FOR BID OR CONSTRUCTION.
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SECTION 1
SCALE 1:200



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 User: JDA

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0	13/AUG/2021	ISSUED FOR PLANNING	NJO	JDA	DAC		

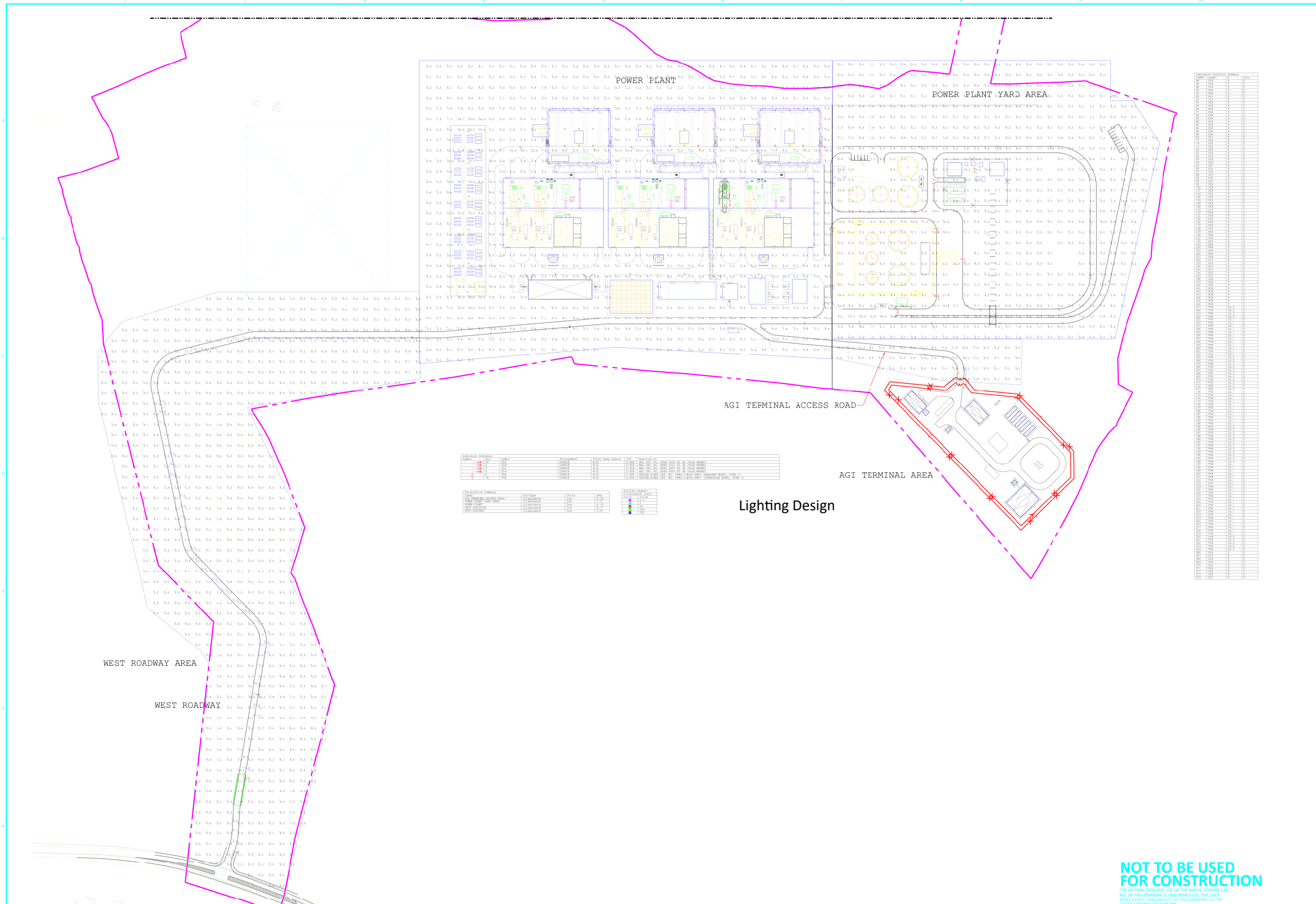
BLACK & VEATCH

DESIGNER: JDA DRAWN: NJO
 CHECKED: DATE:

SHANNON LNG LIMITED
 SHANNON TECHNOLOGY AND ENERGY PARK (STEP)
 FIRE WATER RETENTION POND & OUTFALL PIPE
 PLAN, SECTION & DETAILS

PROJECT	DRAWING NUMBER	REV
198291-1STA-S3911		1
AREA		

LEGEND



SYMBOL	DESCRIPTION
1	100W LED FLOOD LIGHT
2	200W LED FLOOD LIGHT
3	300W LED FLOOD LIGHT
4	400W LED FLOOD LIGHT
5	500W LED FLOOD LIGHT
6	600W LED FLOOD LIGHT
7	700W LED FLOOD LIGHT
8	800W LED FLOOD LIGHT
9	900W LED FLOOD LIGHT
10	1000W LED FLOOD LIGHT
11	1500W LED FLOOD LIGHT
12	2000W LED FLOOD LIGHT
13	3000W LED FLOOD LIGHT
14	4000W LED FLOOD LIGHT
15	5000W LED FLOOD LIGHT
16	6000W LED FLOOD LIGHT
17	7000W LED FLOOD LIGHT
18	8000W LED FLOOD LIGHT
19	9000W LED FLOOD LIGHT
20	10000W LED FLOOD LIGHT
21	15000W LED FLOOD LIGHT
22	20000W LED FLOOD LIGHT
23	30000W LED FLOOD LIGHT
24	40000W LED FLOOD LIGHT
25	50000W LED FLOOD LIGHT
26	60000W LED FLOOD LIGHT
27	70000W LED FLOOD LIGHT
28	80000W LED FLOOD LIGHT
29	90000W LED FLOOD LIGHT
30	100000W LED FLOOD LIGHT
31	150000W LED FLOOD LIGHT
32	200000W LED FLOOD LIGHT
33	300000W LED FLOOD LIGHT
34	400000W LED FLOOD LIGHT
35	500000W LED FLOOD LIGHT
36	600000W LED FLOOD LIGHT
37	700000W LED FLOOD LIGHT
38	800000W LED FLOOD LIGHT
39	900000W LED FLOOD LIGHT
40	1000000W LED FLOOD LIGHT
41	1500000W LED FLOOD LIGHT
42	2000000W LED FLOOD LIGHT
43	3000000W LED FLOOD LIGHT
44	4000000W LED FLOOD LIGHT
45	5000000W LED FLOOD LIGHT
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100	1000000000000W LED FLOOD LIGHT

SYMBOL	DESCRIPTION
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PROJECT: SHANNON LNG LIMITED SHANNON TECHNOLOGY AND ENERGY PARK (STEP)	PROJECT NUMBER: 198291-FIGURE F2-6	ISSUE: 1	DATE: 17/01/2024
CLIENT: SHANNON TECHNOLOGY AND ENERGY PARK (STEP)	SCALE: 1:10000	DRAWN: TS	CHECKED: RD
DESIGNER: BLACK & VEATCH	SCALE IN METERS: 1:500	APPROVED: POC	DATE: 17/01/2024
PROJECT TITLE: SHANNON TECHNOLOGY AND ENERGY PARK (STEP)	DRAWING NUMBER: 198291-FIGURE F2-6	ISSUE: 1	DATE: 17/01/2024
CLIENT: SHANNON TECHNOLOGY AND ENERGY PARK (STEP)	SCALE: 1:10000	DRAWN: TS	CHECKED: RD
DESIGNER: BLACK & VEATCH	SCALE IN METERS: 1:500	APPROVED: POC	DATE: 17/01/2024

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Drawing Title: **LIGHTING DESIGN**

Drawn: TS Chk'd: RD App'd: POC Date: 17/01/2024

AECOM Internal Project No: PR-482591 Scale at A3: 1:10000

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Drawing No: **FIGURE F2-6** Rev: **0**

Figures F2.7: Construction Manpower and Vehicle Traffic Profile Projections

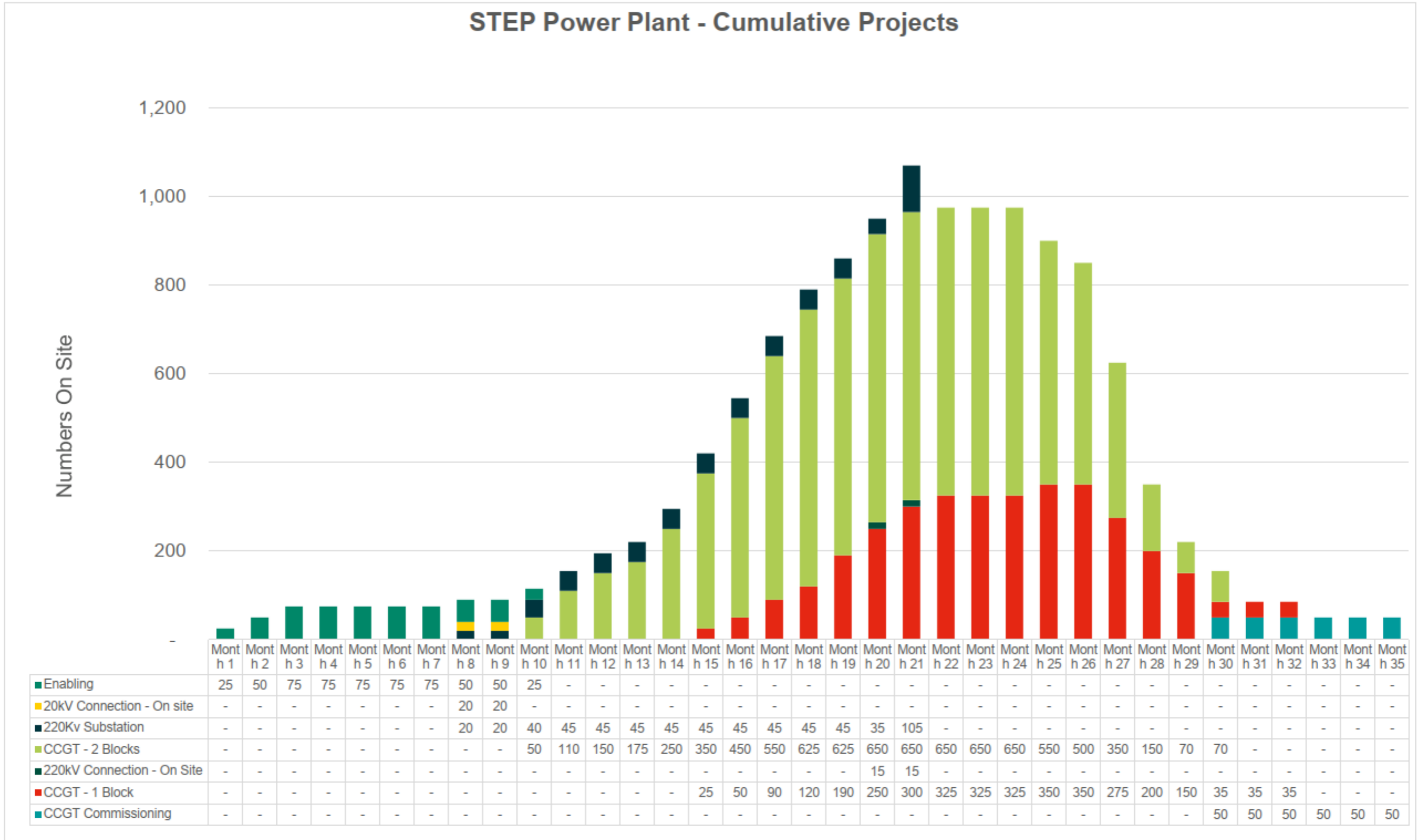


Figure A2.7a: Worst Case Construction Manpower Projection – Cumulative

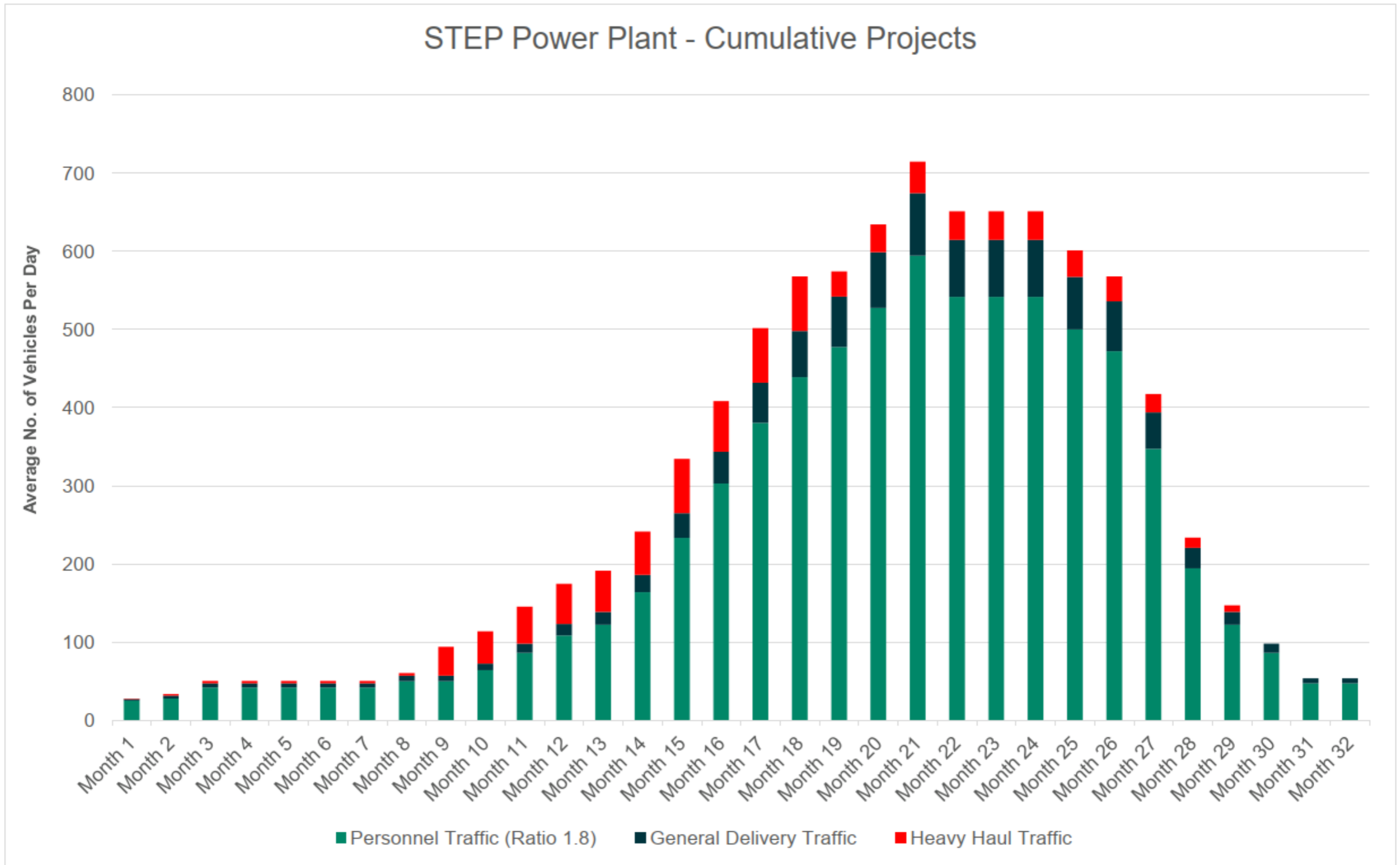


Figure A2.7b: Worst Case Construction Vehicle Projection



COUNTY KERRY

File Name: Z:\UK\I\EDBL\Jobs\PR-482591_Shannon_LNG_Consultancy_Servic900_CAD_GIS\920_GIS\EI\AR\GIS02_Maps\Water\Figure 6.2 Local Surface Water Drainage Network.mxd



LEGEND

- Development Boundary
- Surface water course
- D1, etc – watercourse identifier (after MEL, 2007)

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Project Title: **SHANNON TECHNOLOGY AND ENERGY PARK**

Drawing Title: **LOCAL SURFACE WATER DRAINAGE NETWORK**

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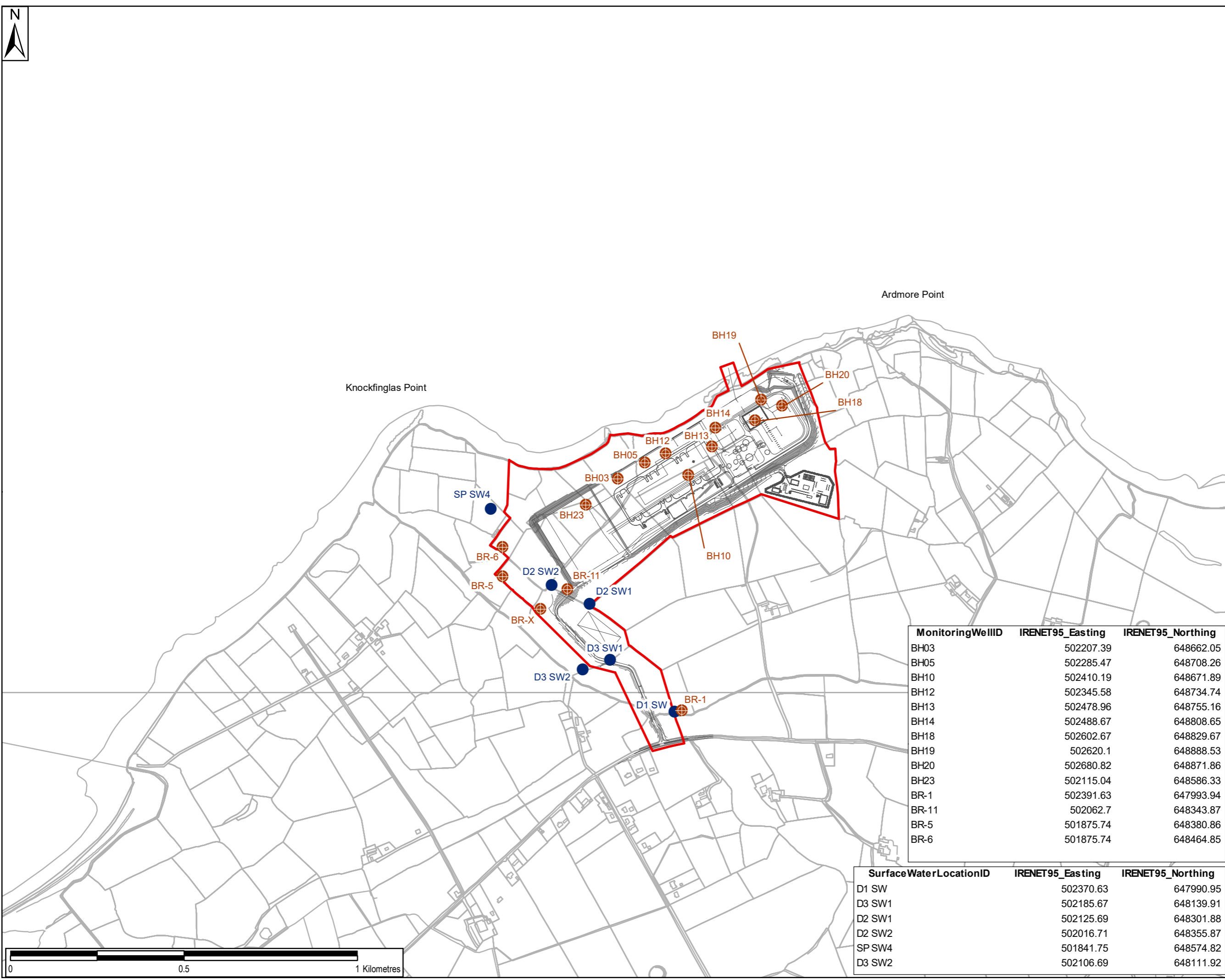
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File Name: Z:\UK\IEDBL\Jobs\PR-452981_Shannon_LNG_Consultancy_Servic\900_CAD_GIS\920_GIS\EIR\GIS\02_Maps\2024_Update\Ch 6_Water\Figure F6-4_Surface water features.mxd



LEGEND

- Development Boundary
- ⊗ Well locations
- Surface water locations

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Purpose of Issue: **FINAL**

Client: **CONFIDENTIAL**

Project Title: **SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT**

Drawing Title: **WELL AND SURFACE WATER SAMPLING LOCATIONS**

Drawn: TS	Chk'd: RD	App'd: POC	Date: 12/04/2024
AECOM Internal Project No: PR-482591		Scale at A3: 1:10,000	

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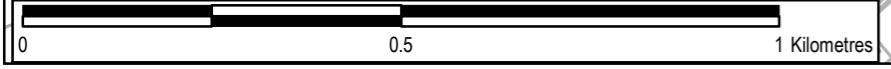
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Drawing No: **FIGURE F6-2** Rev: **0**

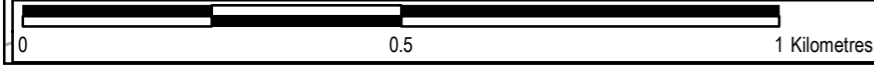
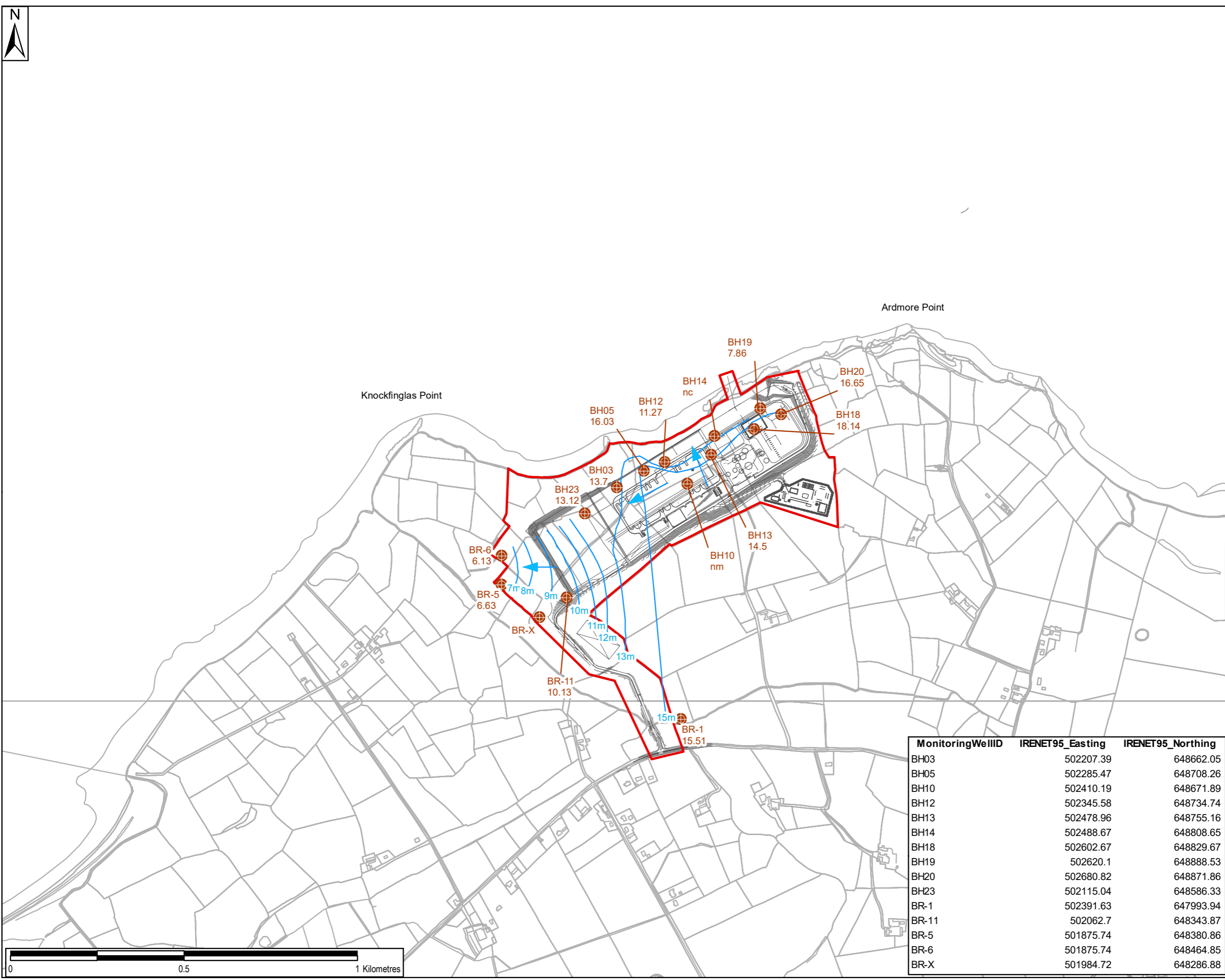
MonitoringWellID	IRENET95_Easting	IRENET95_Northing
BH03	502207.39	648662.05
BH05	502285.47	648708.26
BH10	502410.19	648671.89
BH12	502345.58	648734.74
BH13	502478.96	648755.16
BH14	502488.67	648808.65
BH18	502602.67	648829.67
BH19	502620.1	648888.53
BH20	502680.82	648871.86
BH23	502115.04	648586.33
BR-1	502391.63	647993.94
BR-11	502062.7	648343.87
BR-5	501875.74	648380.86
BR-6	501875.74	648464.85

SurfaceWaterLocationID	IRENET95_Easting	IRENET95_Northing
D1 SW	502370.63	647990.95
D3 SW1	502185.67	648139.91
D2 SW1	502125.69	648301.88
D2 SW2	502016.71	648355.87
SP SW4	501841.75	648574.82
D3 SW2	502106.69	648111.92





File Name: Z:\UK\I\EDBL\Jobs\PR-482591_Shannon_LNG_Consultancy_Servic900_CAD_GIS\920_GIS\EIAR\GIS02_Maps\Water\Figure 6.4_Site_Location_and_Outline_of_Proposed_Development.mxd



LEGEND	
	Development Boundary
●	Well locations
—	Groundwater contours

Copyright:	
Service Layer Credits:	
Purpose of Issue:	FINAL
Client:	CONFIDENTIAL
Project Title:	SHANNON TECHNOLOGY AND ENERGY PARK

Monitoring Well ID	IRENET95_Easting	IRENET95_Northing
BH03	502207.39	648662.05
BH05	502285.47	648708.26
BH10	502410.19	648671.89
BH12	502345.58	648734.74
BH13	502478.96	648755.16
BH14	502488.67	648808.65
BH18	502602.67	648829.67
BH19	502620.1	648888.53
BH20	502680.82	648871.86
BH23	502115.04	648586.33
BR-1	502391.63	647993.94
BR-11	502062.7	648343.87
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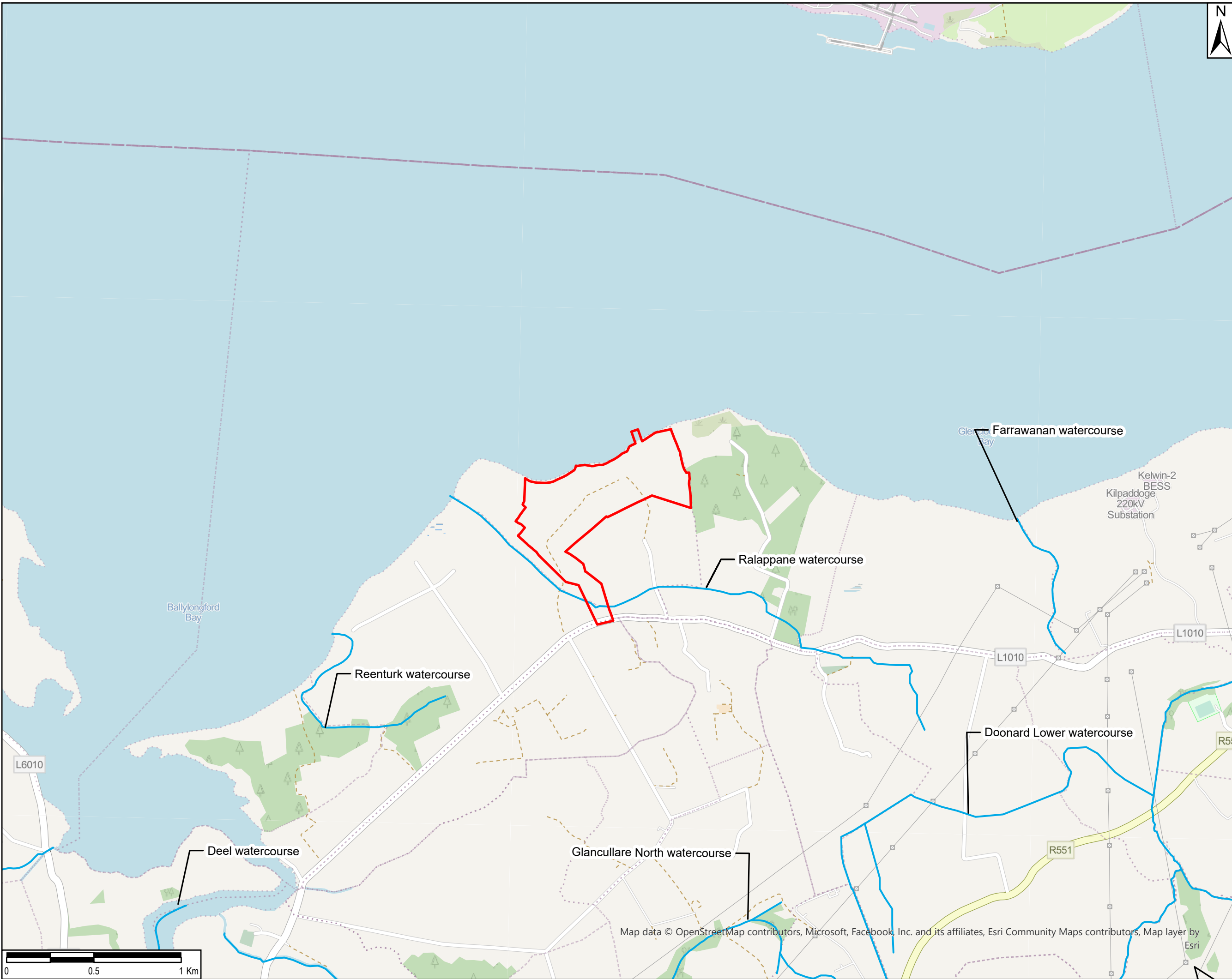
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GROUNDWATER ELEVATIONS and CONTOUR (FEB 2020)			

Drawn: JB	Chk'd: DG	App'd: KF	Date: 12/04/2024
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- LEGEND**
- Development Boundary
 - watercourses

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Purpose of Issue: **FINAL**

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Project Title:
SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT

Drawing Title:
SURFACE WATER FEATURES

Drawn: TS	Chk'd: RD	App'd: POC	Date: 26/03/2024
AECOM Internal Project No: PR-482591		Scale at A3: 1:10000	

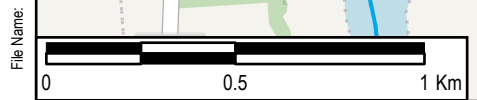
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File Name:



LEGEND

Development Boundary

Aquifer Description

LI - Locally Important
Aquifer - Bedrock which is
Moderately Productive
only in Local Zones

GSI Groundwater Wells
100-200m Accuracy

GSI Groundwater Wells
250-500m Accuracy

GSI Groundwater Wells
500-1000m Accuracy

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AND ENERGY PARK (STEP)
POWER PLANT**

Drawing Title:
**AQUIFER DESIGNATIONS AND
GROUNDWATER FEATURES**

Drawn: TS	Chk'd: RD	App'd: POC	Date: 26/03/2024
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AECOM Internal Project No:
PR-482591

Scale at A3:
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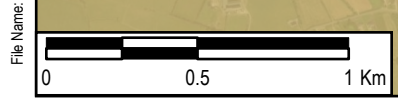
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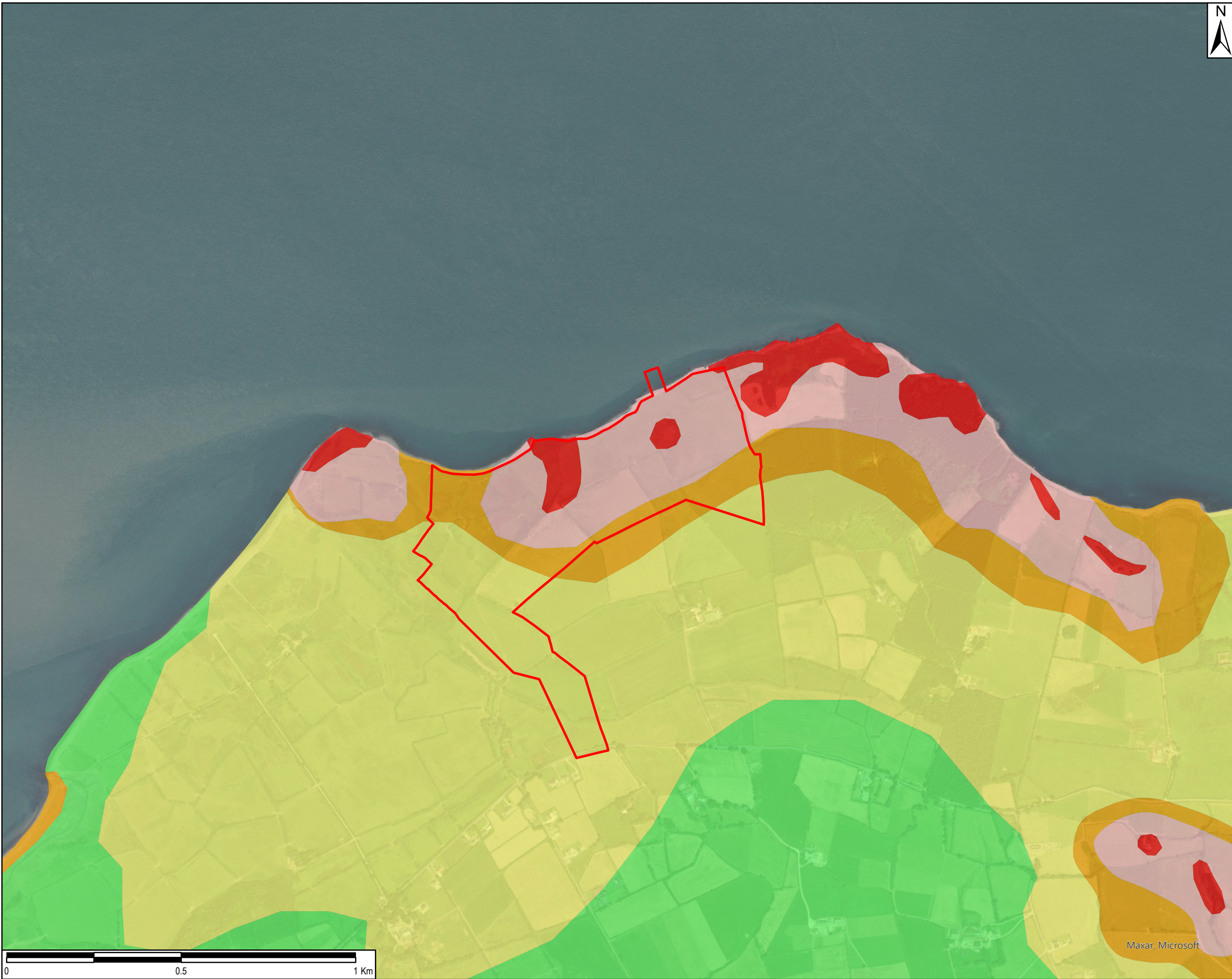


Drawing No:
FIGURE F6-5

Rev:
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Maxar, Microsoft



- LEGEND**
- Development Boundary
 - Groundwater Vulnerability
 - Extreme
 - High
 - Low
 - Moderate
 - Rock at or near Surface or Karst
 - Water

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Drawing Title:
GROUNDWATER VULNERABILITY

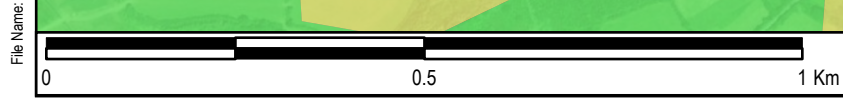
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Drawing No: **FIGURE F6-6** Rev: **0**



File Name:

Maxar, Microsoft



LEGEND

- Proposed Development Site Boundary
- Special Protection Areas (SPA)
- Special Area of Conservation (SAC)

File Name: Z:\UK\IED\B1\2\l\l\l\PR-482591_Shannon_LING_Consultancy_Servic900_CAD_GIS920_GIS\EIAR\GIS02_Maps\2024_Update\Biodiversity\Figure 1 - Natura 2000 Sites_20240227.mxd

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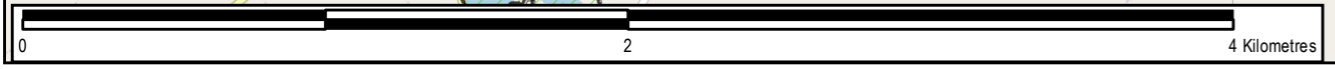
Project Title:
SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT

Drawing Title:
NATURA 2000 SITES

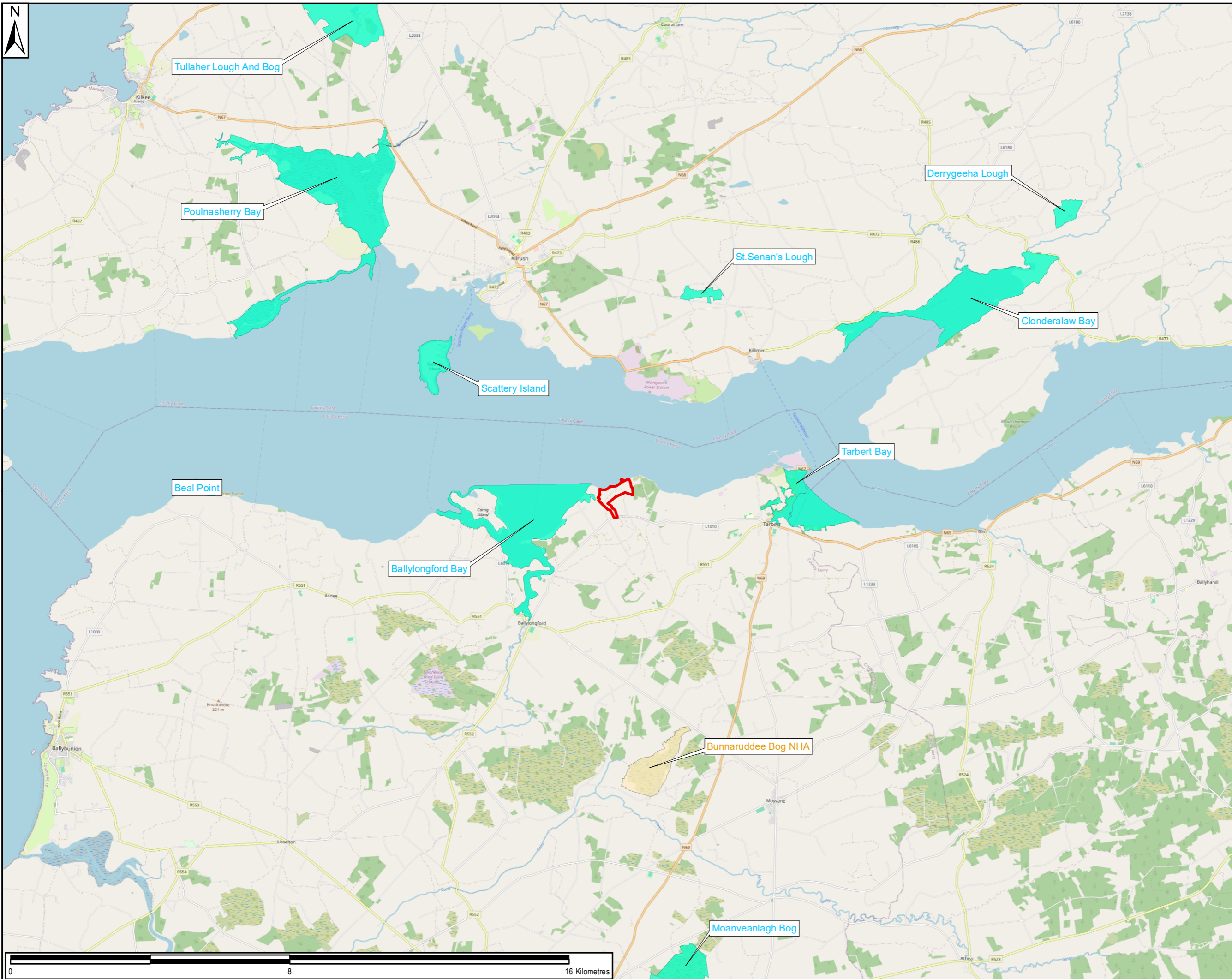
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AECOM Internal Project No: PR-482591		Scale at A3: 1:25,000	

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- Proposed Development Site Boundary
- Natural Heritage
- Proposed Natural Heritage Areas

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Project Title:
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Drawing Title:
NATURAL HERITAGE AREAS

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AECOM Internal Project No: PR-482591		Scale at A3: 1:100,000	

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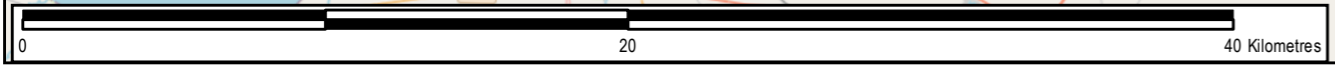
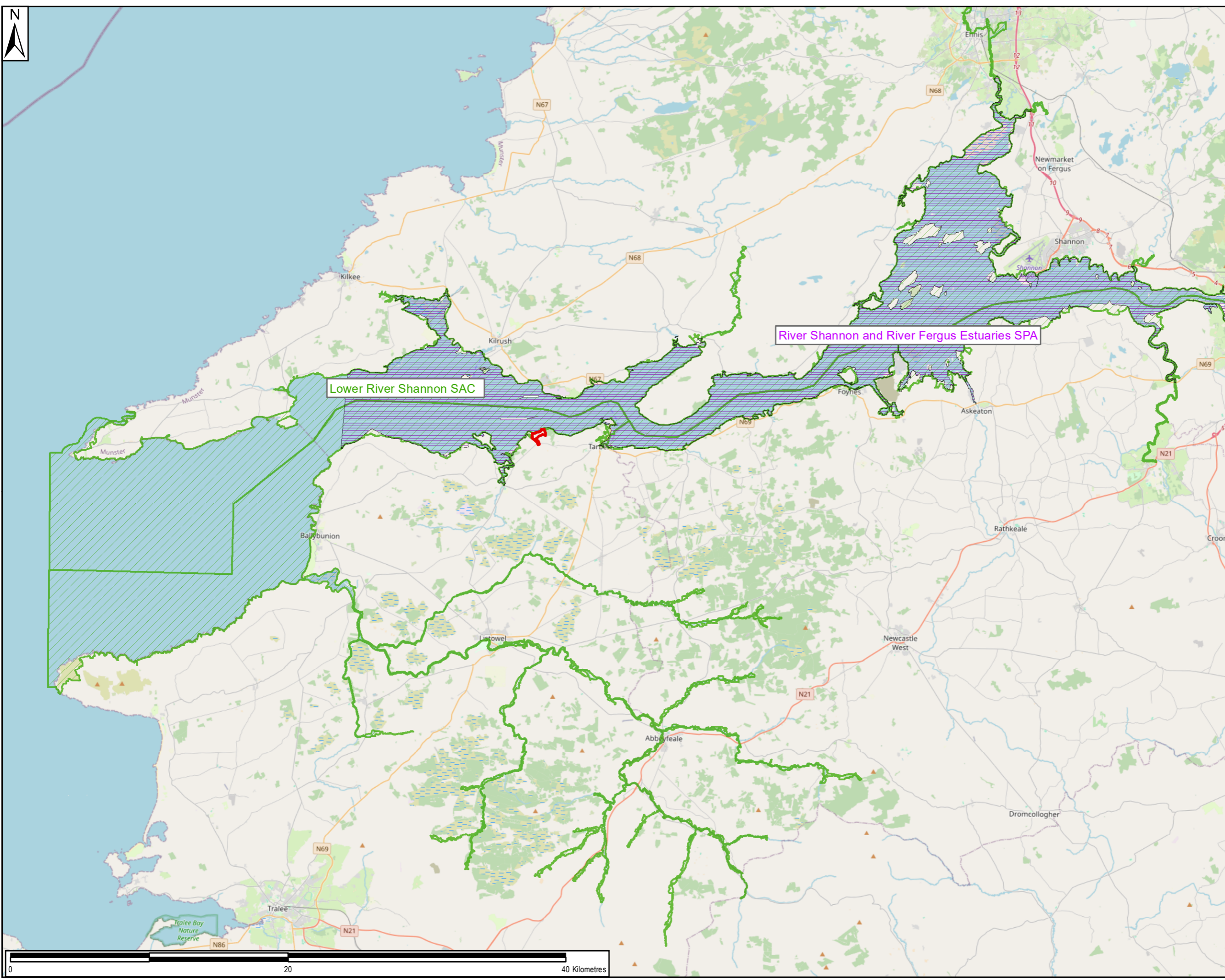


Drawing No: **FIGURE F7-2** Rev: **0**

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File Name: Z:\UK\IED\B1\2\jobs\PR-452891_Shannon_LNG_Consultancy_Service\900_CAD_GIS\920_GIS\EIAR\GIS\02_Maps\2024_Update\Biodiversity\Figure F7-4 - Proposed Development Site relative to River Shannon SPA and SAC_20240227.mxd



- LEGEND**
- Proposed Development Site Boundary
 - River Shannon and River Fergus Estuaries SPA
 - Lower River Shannon SAC

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Project Title:
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Drawing Title:
PROPOSED DEVELOPMENT SITE BOUNDARY RELATIVE TO LOWER SHANNON SAC AND RIVER FERGUS SPA

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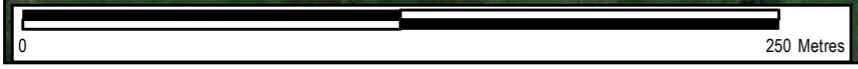
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Drawing No: **FIGURE F7-4** Rev: **0**



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LEGEND

-  Proposed Development Site Boundary
-  Outfall
-  Lower River Shannon SAC

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Project Title:
SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT

Drawing Title:
OUTFALL RELATIVE TO THE LOWER RIVER SHANNON SAC

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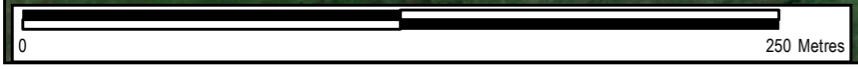
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Drawing No: FIGURE F7-5	Rev: 0
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LEGEND

- Proposed Development Site Boundary
- River Shannon and River Fergus Estuaries SPA
- Outfall

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Client: **CONFIDENTIAL**

Project Title:
SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT

Drawing Title:
OUTFALL RELATIVE TO THE RIVER SHANNON AND RIVER FERGUS ESTUARIES SPA

Drawn: TS	Chk'd: RD	App'd: POC	Date: 25/03/2024
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Drawing No: **FIGURE F7-6** Rev: **0**

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LEGEND

Proposed Development Site Boundary

Sites:

- Lower River Shannon SAC
- Moanveanlagh Bog SAC
- Tullaher Lough And Bog SAC

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Drawing Title:
SACS WITHIN THE ZONE OF INFLUENCE OF THE PROPOSED DEVELOPMENT

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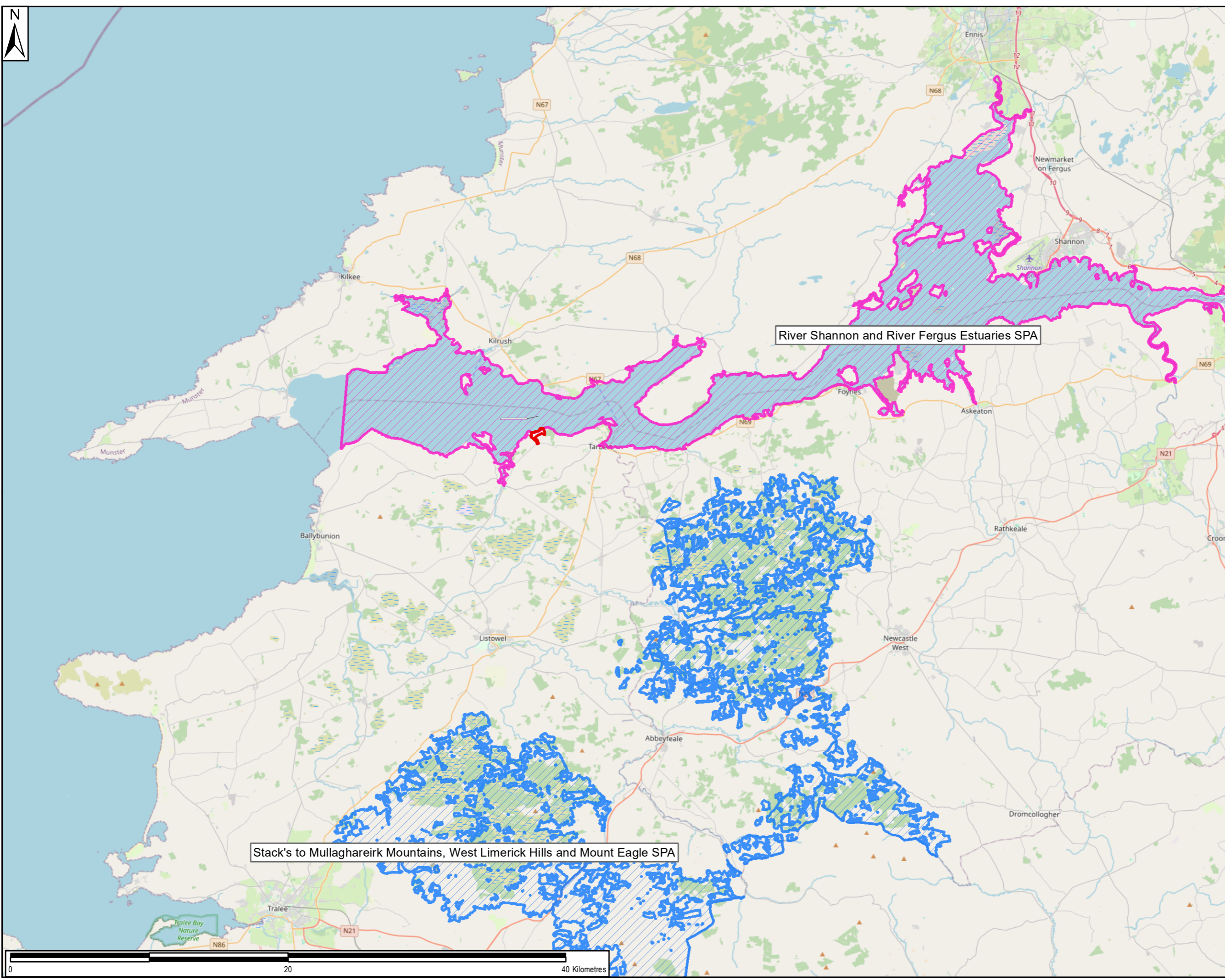
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Drawing No: **FIGURE F7-7** Rev: **0**






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River Shannon and River Fergus Estuaries SPA

Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA

LEGEND

-  Proposed Development Site Boundary
- Sites**
-  River Shannon and River Fergus Estuaries SPA
-  Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA

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Project Title:
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Drawing Title:
SPAS WITHIN THE ZONE OF INFLUENCE OF THE PROPOSED DEVELOPMENT

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

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LEGEND

-  Proposed Development Site Boundary
-  Outfall
-  Annex I Habitat - 1130 Estuaries

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Drawing Title:
OUTFALL RELATIVE TO THE ANNEX I HABITAT 1130 ESTUARIES OF THE LOWER RIVER SHANNON SAC

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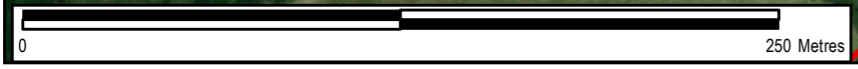
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LEGEND

-  Proposed Development Site Boundary
-  Outfall
-  Annex I Habitat - 1170 Reefs

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Drawing Title:
OUTFALL RELATIVE TO THE ANNEX I HABITAT 1170 REEFS OF THE LOWER RIVER SHANNON SAC

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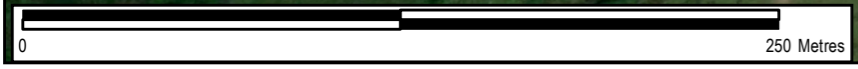
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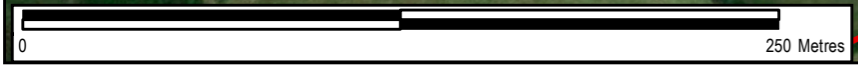
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Drawing No: **FIGURE F7-10** Rev: **0**



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LEGEND

- Proposed Development Site Boundary
- Fucoid-dominated intertidal reef community complex
- Subtidal sand to mixed sediment with Nucula nucleus community complex
- Outfall

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Project Title:
SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT

Drawing Title:
OUTFALL RELATIVE TO THE RELATIVE TO THE MARINE COMMUNITY TYPES WITHIN ANNEX I HABITATS OF THE LOWER RIVER SHANNON SAC

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LEGEND

- Proposed Development and Cumulative Point Source Emissions
- Human Health Receptors
- Long-Term NO₂ Process Contribution (µg/m³)

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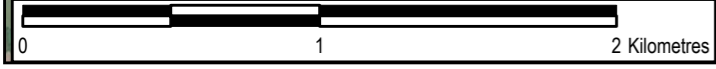
Project Title: **SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT**

Drawing Title: **LONG TERM NO₂ PROCESS CONTRIBUTION**

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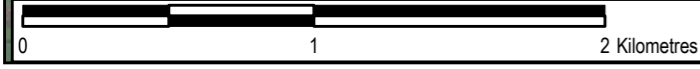
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LEGEND

- Proposed Development and Cumulative Point Source Emissions
- Human Health Receptors
- Short-Term (99.79th Percentile) NO₂ Process Contribution (µg/m³)

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Project Title: **SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT**

Drawing Title: **SHORT TERM NO₂ PROCESS CONTRIBUTION**

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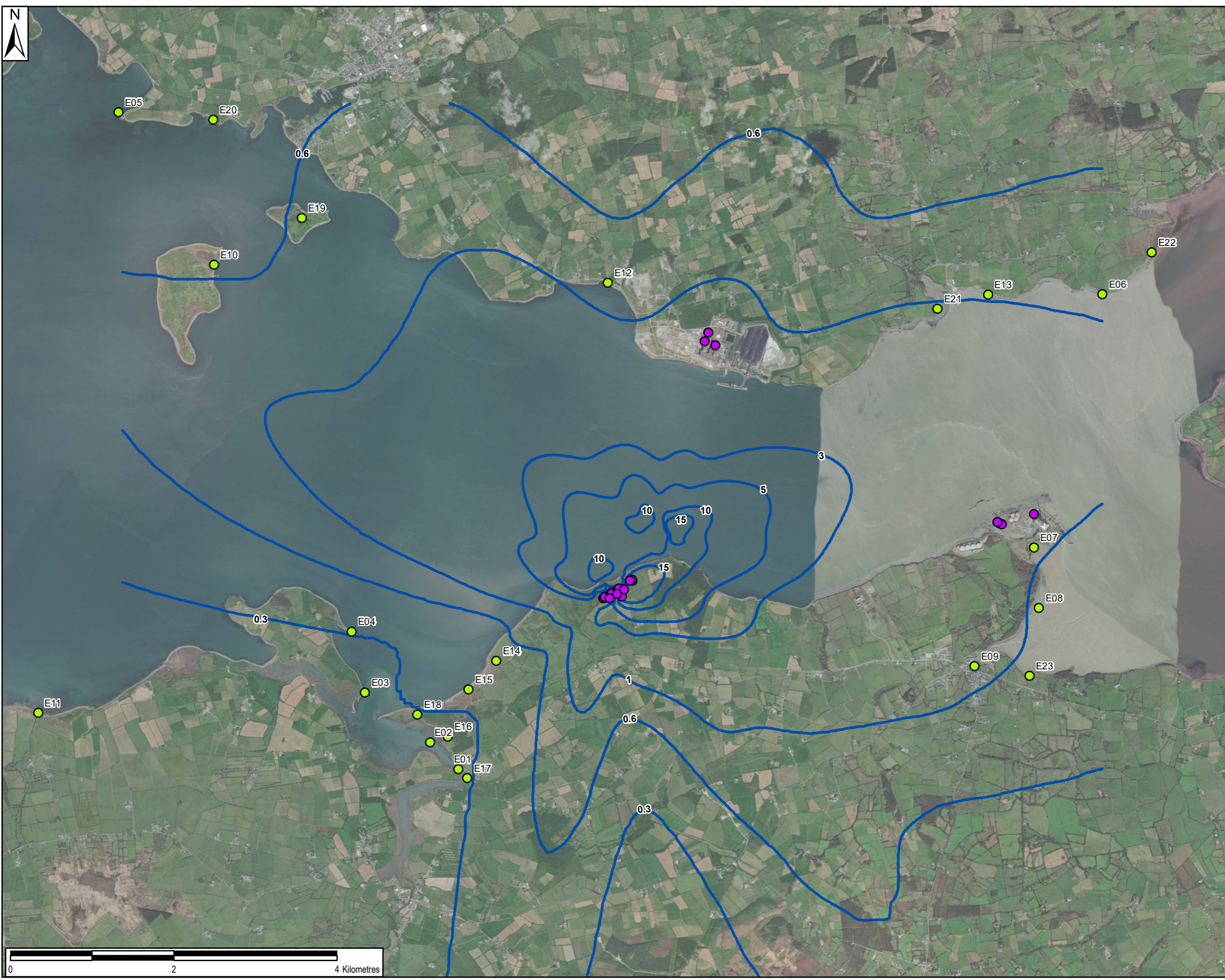
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Drawing No: **Figure F8-2** Rev: **0**



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- LEGEND**
- Proposed Development and Cumulative Point Source Emissions
 - Nature Conservation Receptors
 - Long-Term NO_x Process Contribution (µg/m³)

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Drawing Title: **LONG-TERM NO_x PROCESS CONTRIBUTION**

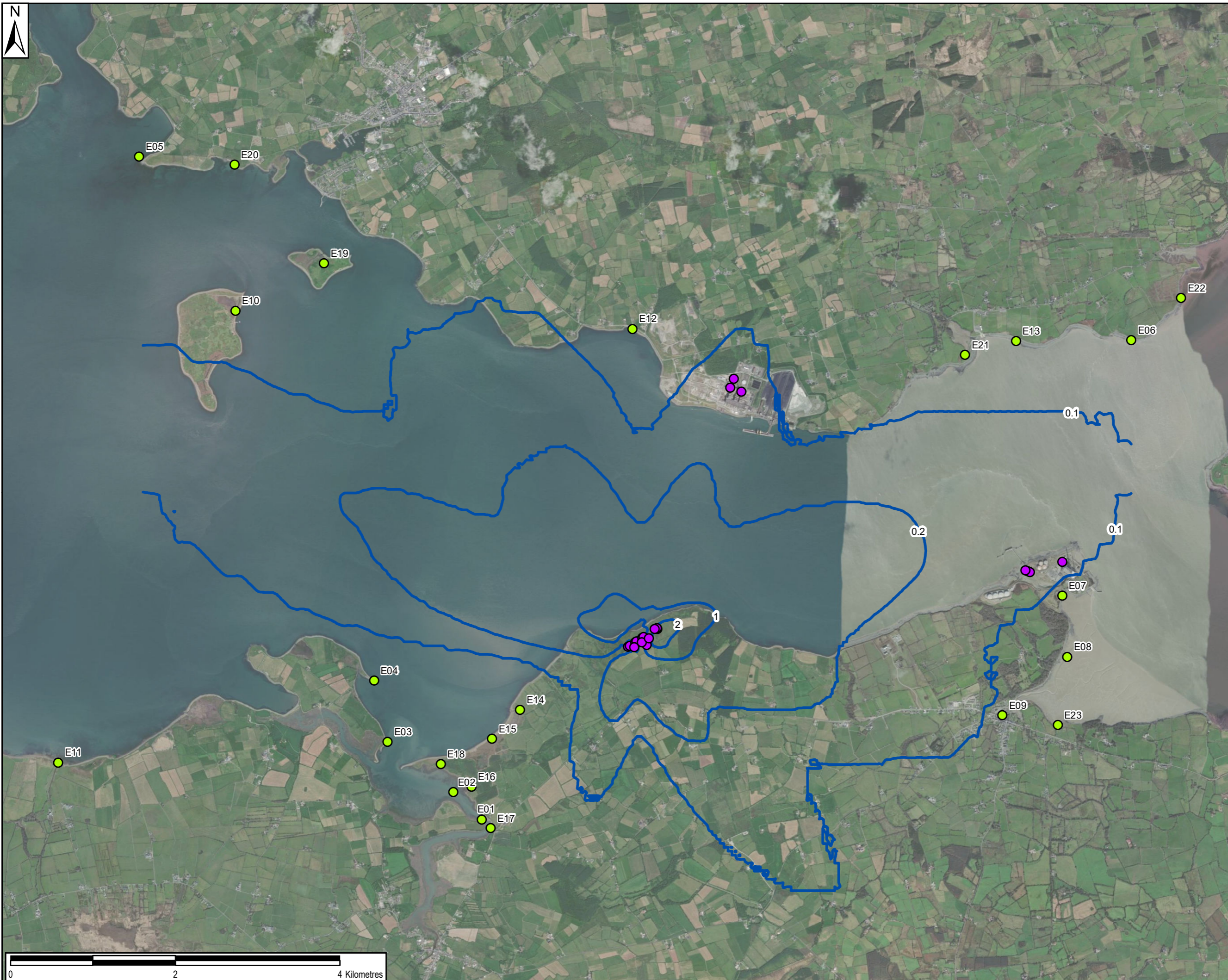
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Drawing No: **FIGURE F8-3** Rev: **0**



- LEGEND**
- Proposed Development and Cumulative Point Source Emissions
 - Proposed Development and Cumulative Point Source Emissions
 - Long-Term N Deposition Process Contribution (kg N/ha/yr)

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Client: **SHANNON LNG**

Project Title: **SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT**

Drawing Title: **LONG TERM N DEPOSITION PROCESS CONTRIBUTION**

Drawn: TS	Chk'd: RD	App'd: POC	Date: 25/03/2025
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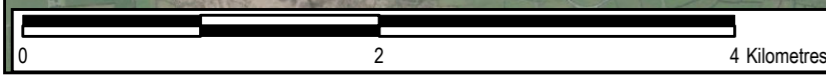
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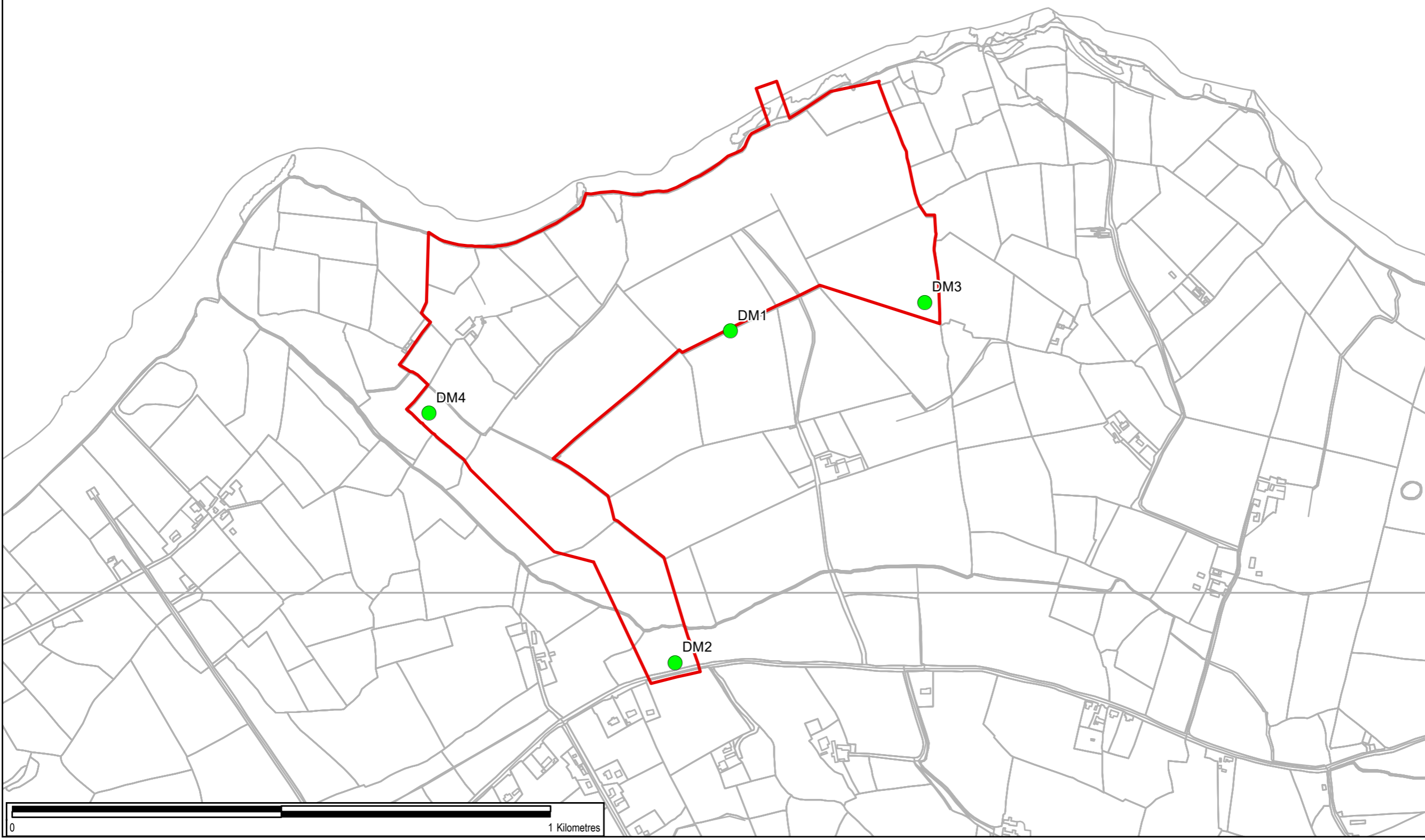


Drawing No: **FIGURE F8-4** Rev: **0**





File Name: Z:\UK\IEDBL2\Jobs\PR-452891_Shannon_LNG_Consultancy_Servic900_CAD_GIS\920_GIS\EIAR\GIS02_Maps\2024_Update\Ch.8_Air Quality\Figure F8-5 - Dust Monitoring Locations_20240321.mxd



- Proposed Development Site Boundary
- Dust Monitoring Locations

Copyright:

Purpose of Issue: **FINAL**

Client: **CONFIDENTIAL**

Project Title: **SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT**

Drawing Title: **DUST MONITORING LOCATIONS**

Drawn: TS	Chk'd: RD	App'd: POC	Date: 21/03/2024
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AECOM Internal Project No: PR-482591	Scale at A3: 1:7,500
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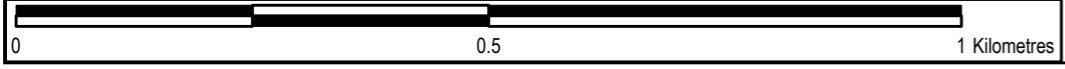
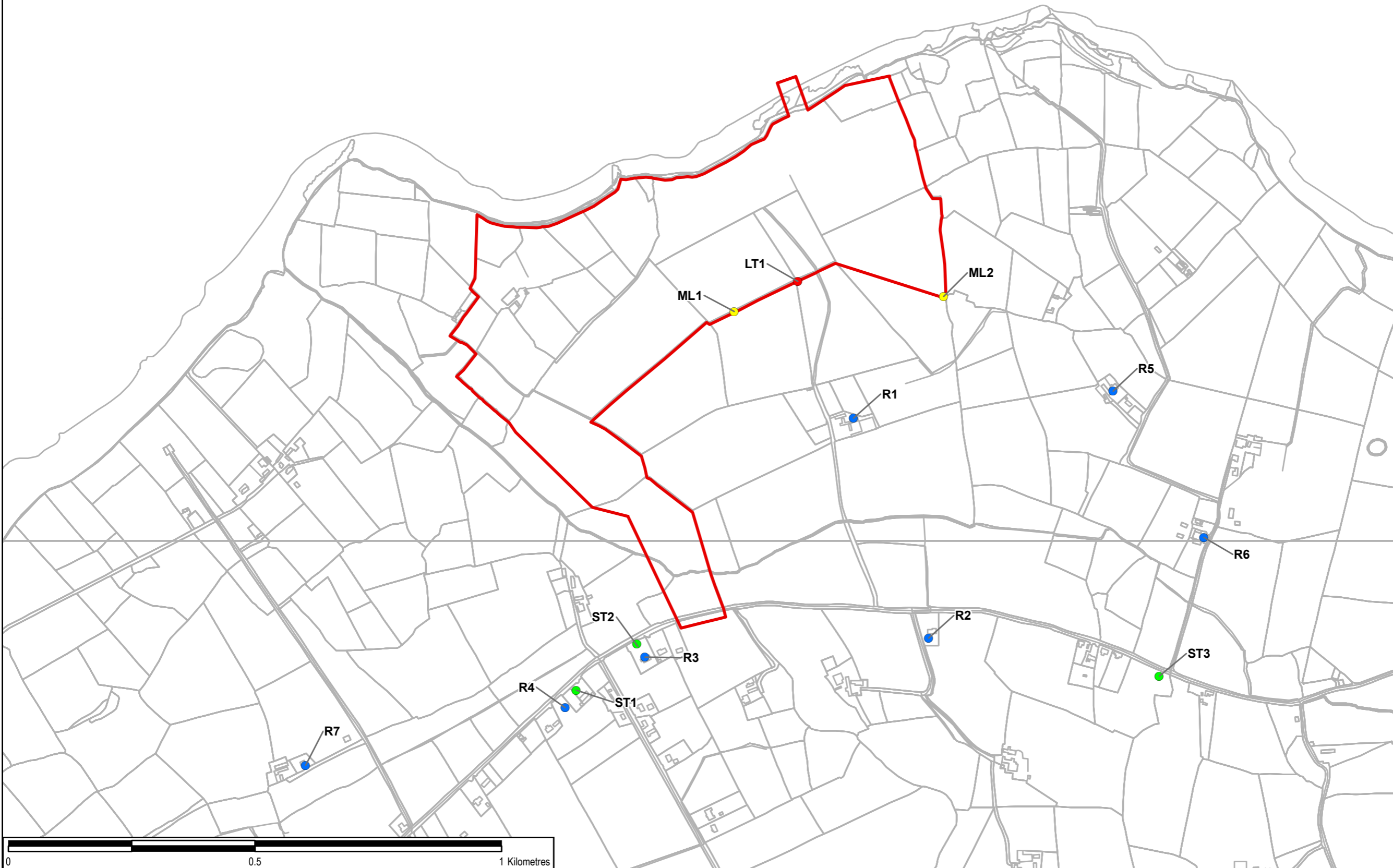
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Drawing No: FIGURE F8-5	Rev: 0
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File Name: Z:\UK\IED\B1\2\Jobs\PR-482591_Shannon_LNG_Consultancy_Servic900_CAD_GIS\920_GIS\EIAR\GIS\02_Maps\2024_Update\Noise\Figure F9-1_Receptors and Measurement Locations_20240307.mxd



LEGEND

- Development Boundary
- Noise Receptors and Monitoring Locations**
- LT - Long Term Monitoring Location
- ML - Operational Scenario Indicative Monitoring Location
- R - Receptor Position
- ST - Short Term Monitoring Location

Copyright:
Service Layer Credits:

Purpose of Issue: **FINAL**

Client: **CONFIDENTIAL**

Project Title:
SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT

Drawing Title:
NOISE RECEPTORS AND MEASUREMENT LOCATIONS

Drawn: TS	Chk'd: RD	App'd: POC	Date: 07/03/2024
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AECOM Internal Project No: PR-482591 Scale at A3: 1:8,000

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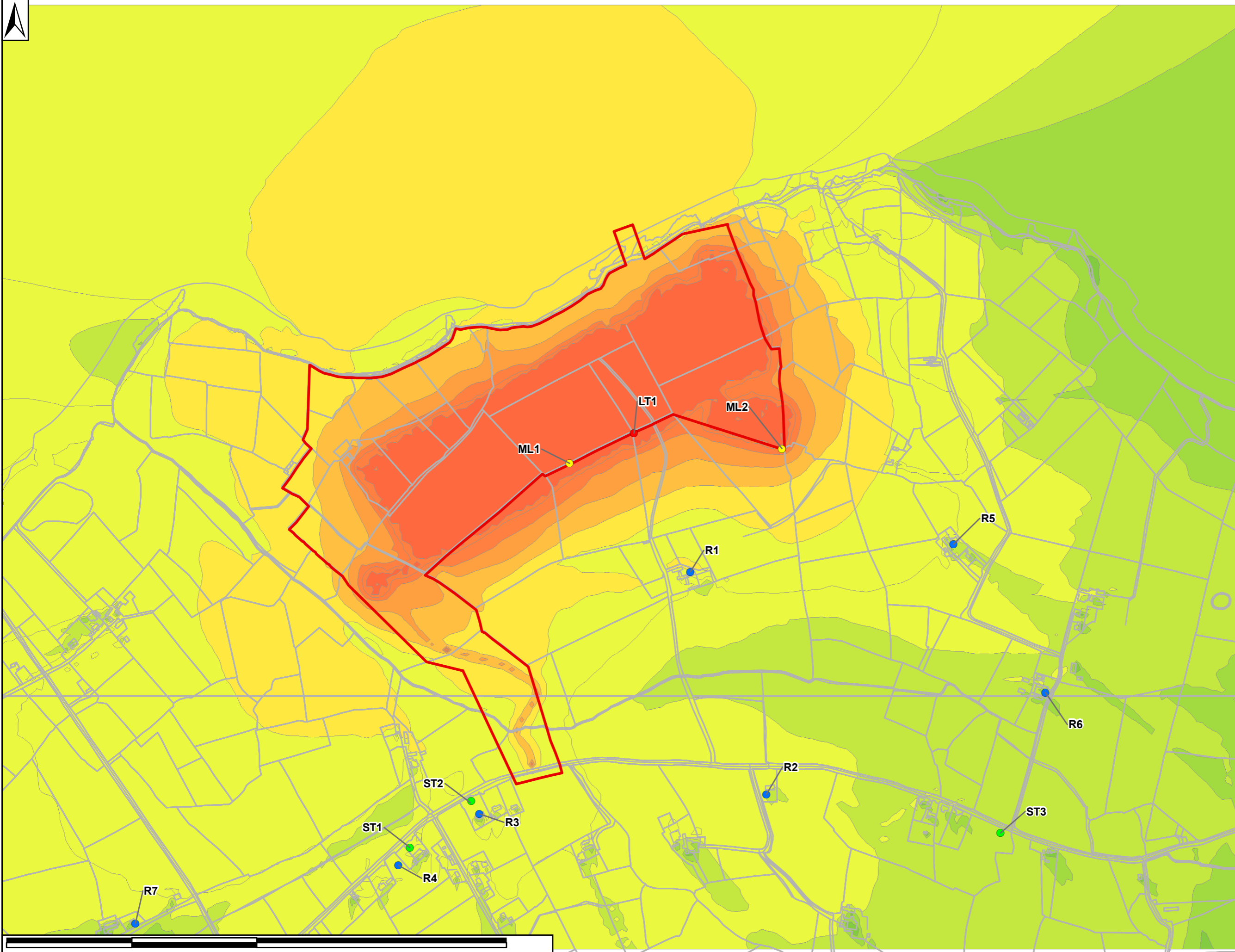
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Drawing No: FIGURE F9-1	Rev: 0
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LEGEND

- Development Boundary
- Noise Receptors and Monitoring Locations**
- LT - Long Term Monitoring Location
- ML - Operational Scenario Indicative Monitoring Location
- R - Receptor Position
- ST - Short Term Monitoring Location

Construction Peak 1 - Noise Contours
LAeq, 10hr dB, 1.5m above ground

- <35
- >=35 and <40
- >=40 and <45
- >=45 and <50
- >=50 and <55
- >=55 and <60
- >=60 and <65
- >=65 and <70
- >=70 and <75
- >75

Copyright:
Service Layer Credits:

Purpose of Issue: **FINAL**

Client: **CONFIDENTIAL**

Project Title:
SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT

Drawing Title:
CONSTRUCTION PEAK 1

Drawn: TS	Chk'd: RD	App'd: POC	Date: 07/03/2024
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AECOM Internal Project No: PR-482591	Scale at A3: 1:7,000
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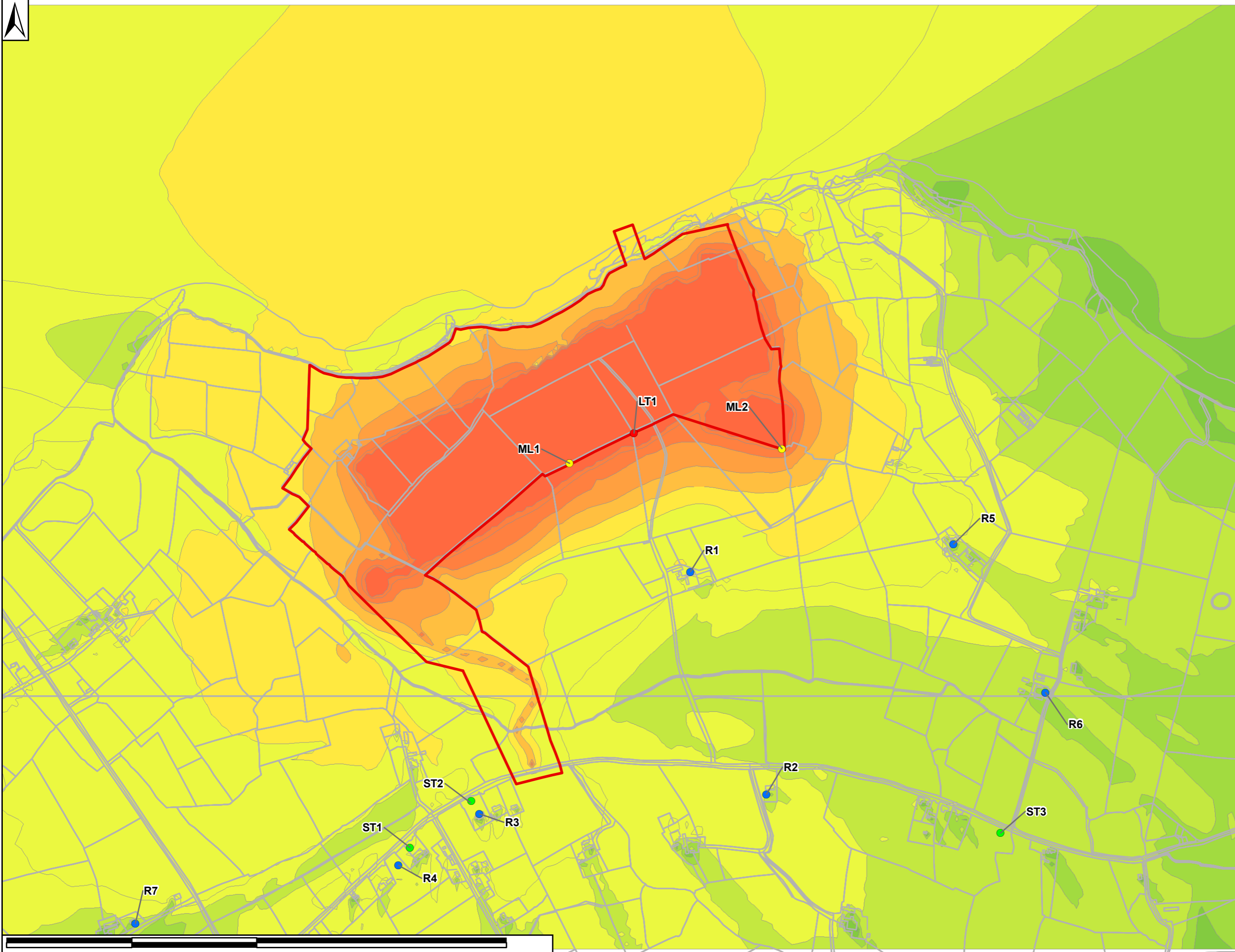
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Drawing No: FIGURE F9-2	Rev: 0
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File Name: Z:\UK\IED\B1\2\Jobs\PR-482591_Shannon_LNG_Consultancy_Service\900_CAD_GIS\920_GIS\EIAR\GIS02_Maps\2024_Update\Noise\Figure F9-3 Construction Peak 2_20240307.mxd



- LEGEND**
- Development Boundary
 - LT - Long Term Monitoring Location
 - ML - Operational Scenario Indicative Monitoring Location
 - R - Receptor Position
 - ST - Short Term Monitoring Location

- Construction Peak 2 - Noise Contours**
- LAeq, 10hr dB, 1.5m above ground
- <35
 - >=35 and <40
 - >=40 and <45
 - >=45 and <50
 - >=50 and <55
 - >=55 and <60
 - >=60 and <65
 - >=65 and <70
 - >=70 and <75
 - >75

Copyright:
Service Layer Credits:

Purpose of Issue: **FINAL**

Client: **CONFIDENTIAL**

Project Title: **SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT**

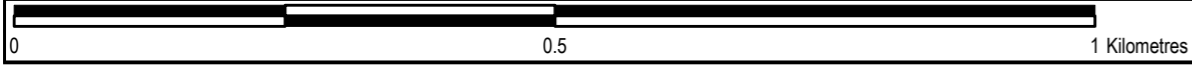
Drawing Title: **CONSTRUCTION PEAK 2**

Drawn: TS	Chk'd: RD	App'd: POC	Date: 07/03/2024
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AECOM Internal Project No: PR-482591	Scale at A3: 1:7,000
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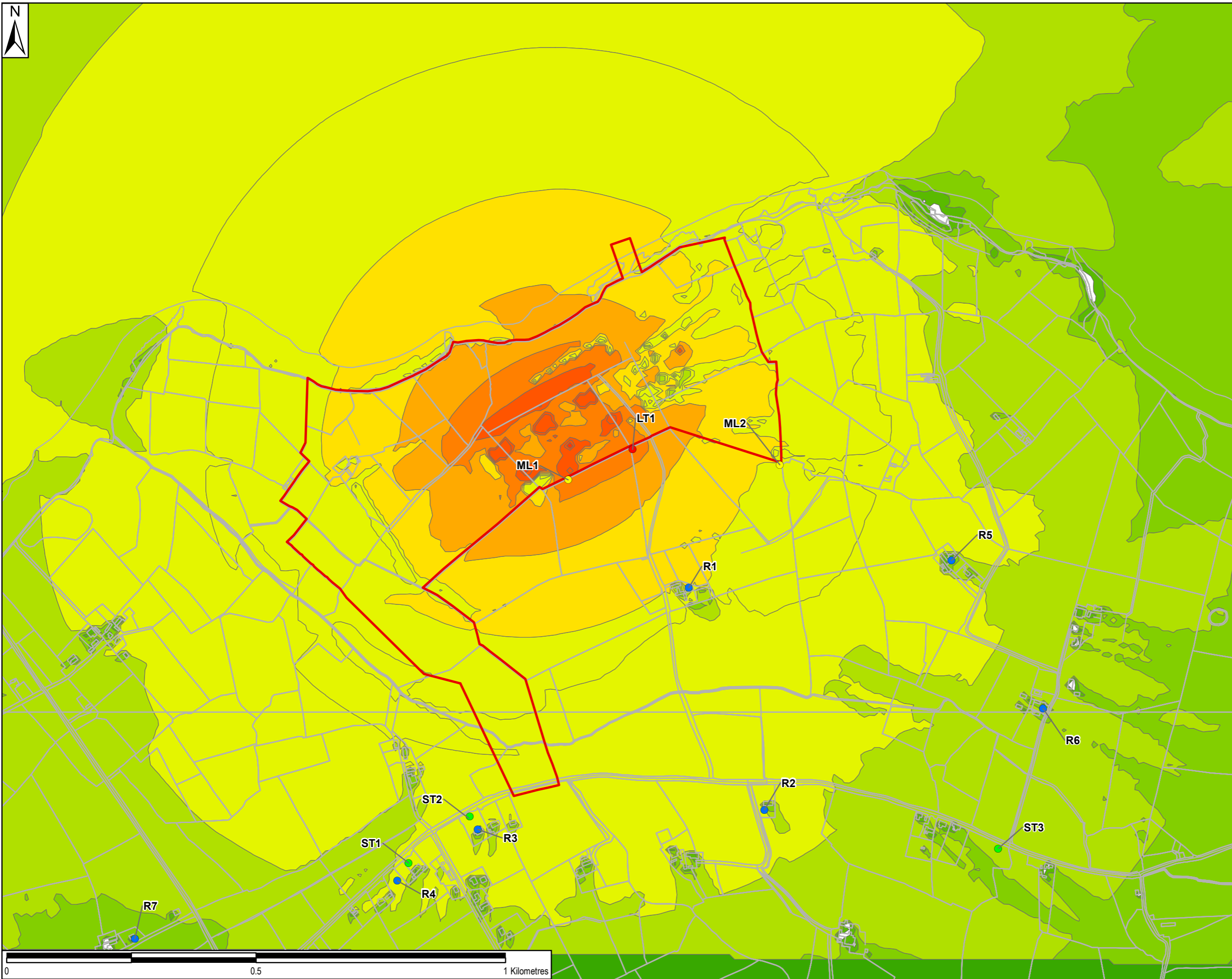
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Drawing No: FIGURE F9-3	Rev: 0
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LEGEND

- Development Boundary
- Noise Receptors and Monitoring Locations**
- LT - Long Term Monitoring Location
- ML - Operational Scenario Indicative Monitoring Location
- R - Receptor Position
- ST - Short Term Monitoring Location

Aeq, 10hr dB, 1,5m above ground

- <math><35</math>
- >=35 and <math><40</math>
- >=40 and <math><45</math>
- >=45 and <math><50</math>
- >=50 and <math><60</math>
- >=60 and <math><65</math>
- >=65 and <math><70</math>
- >=70 and <math><75</math>
- >=75 and <math><80</math>
- >80

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Purpose of Issue: **FINAL**

Client: **CONFIDENTIAL**

Project Title:
SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLAN

Drawing Title:
OPERATIONAL UNMITIGATED

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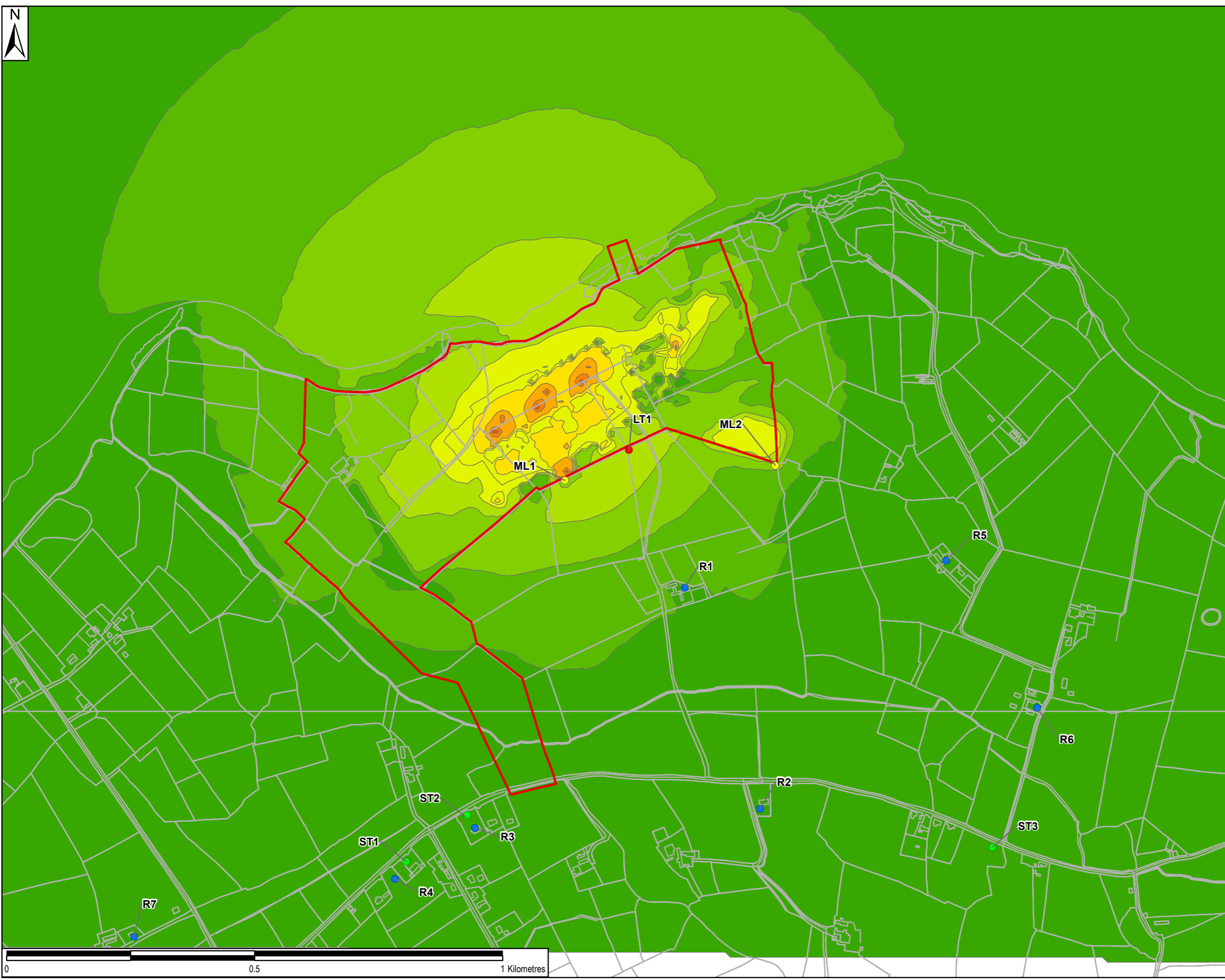
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Drawing No:
FIGURE F9-4

Rev:
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LEGEND

- Development Boundary
- Noise Receptors and Monitoring Locations**
- LT - Long Term Monitoring Location
- ML - Operational Scenario Indicative Monitoring Location
- R - Receptor Position
- ST - Short Term Monitoring Location

Aeq, 10hr dB, 1,5m above ground

- <35
- >=35 and <40
- >=40 and <45
- >=45 and <50
- >=50 and <55
- >=55 and <60
- >=60 and <65
- >=65 and <70
- >=70 and <75

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Service Layer Credits:

Purpose of Issue: **FINAL**

Client: **CONFIDENTIAL**

Project Title:
SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLAN

Drawing Title:
OPERATIONAL MITIGATED

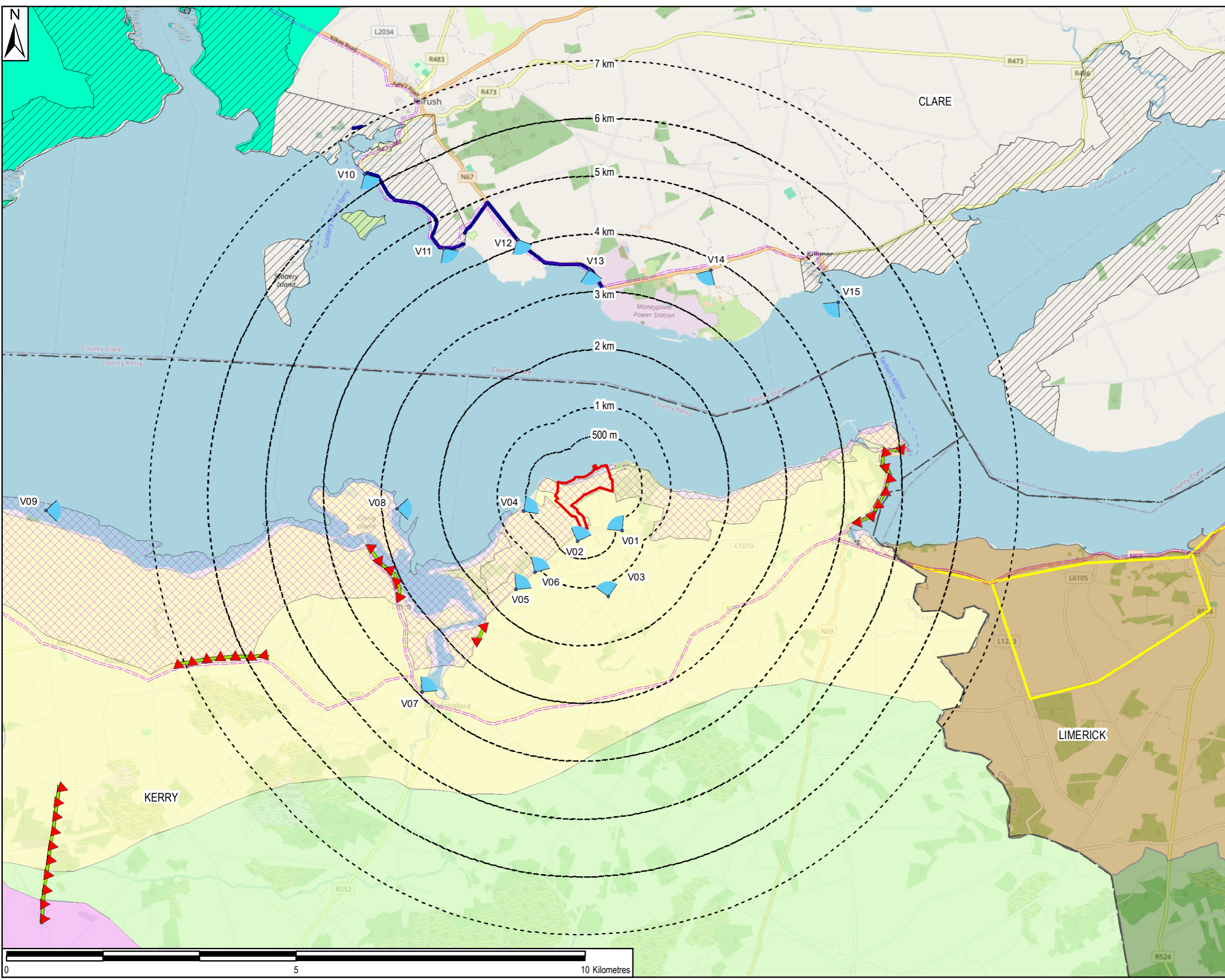
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AECOM Internal Project No: PR-482591		Scale at A3: 1:7,000	

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Drawing No: FIGURE F9-5	Rev: 0
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LEGEND

- Proposed Development Boundary
- Viewpoint / Photomontage locations
- Study Area Radius (7 km)
- Co. Kerry**
 - Views and Prosepts - Both Directions
 - Views and Prosepts - One Direction
 - Wild Atlantic Way Touring Route
 - Tarbert/Ballylongford Landbank Strategic Development Location
- Landscape Character Areas**
 - Bunnaruddee Bog and Galey River
 - Listowel and The Cashen River
 - The Shannon Estuary
- Co. Clare**
 - Scenic Routes
 - Heritage Landscapes
 - Settled Landscapes
- Co. Limerick**
 - Views and Prospects
- Landscape Character Areas**
 - Shannon Coastal Zone
 - Western Uplands

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Purpose of Issue: **FINAL**

Client: **CONFIDENTIAL**

Project Title: **SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT**

Drawing Title: **LANDSCAPE DESIGNATIONS**

Drawn: TS	Chk'd: RD	App'd: POC	Date: 07/03/2024
AECOM Internal Project No: PR-482591		Scale at A3: 1:60,000	

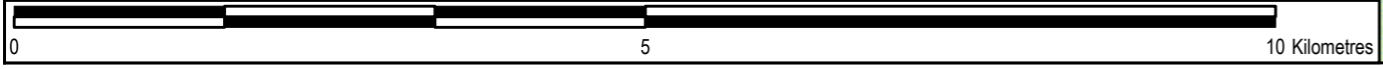
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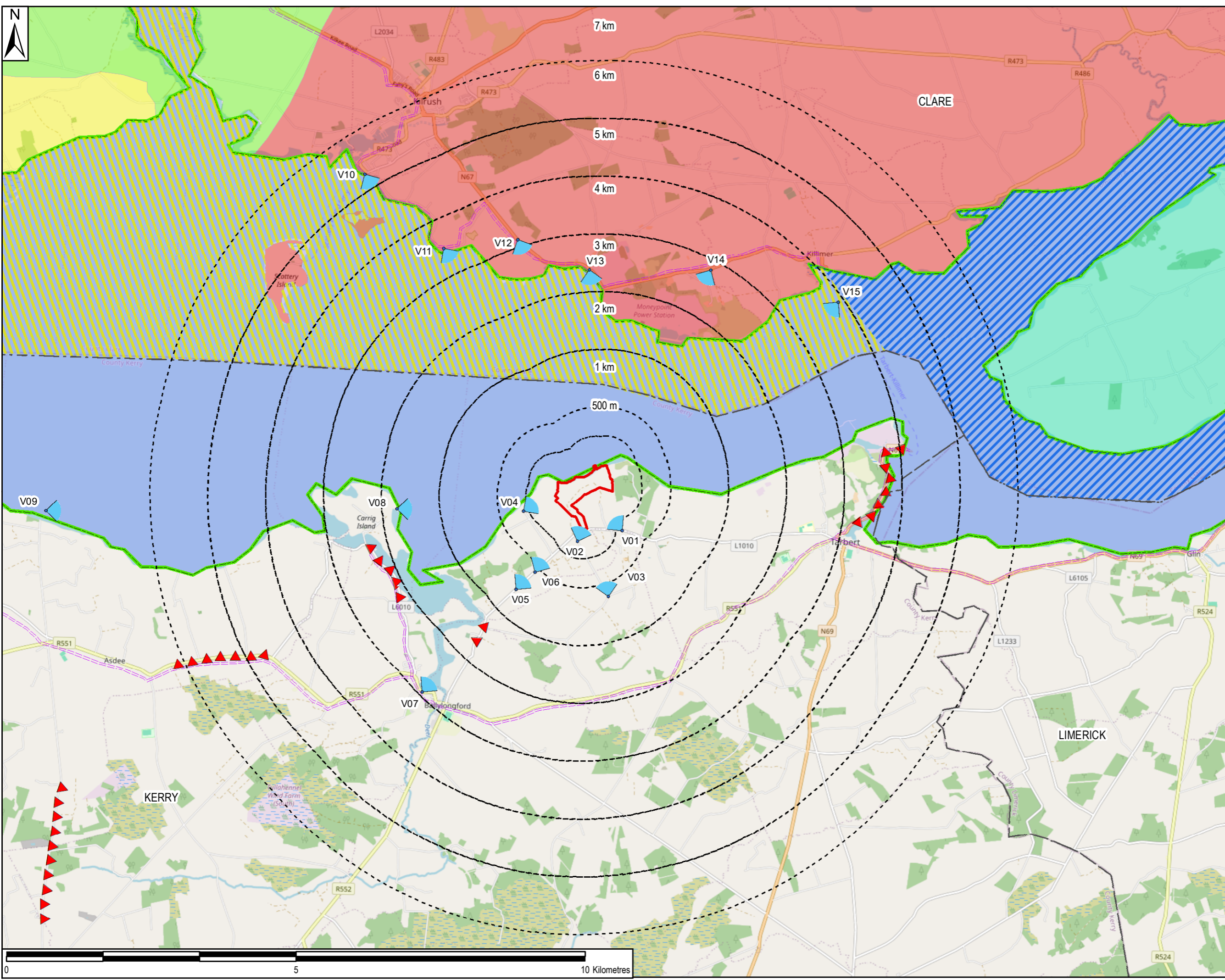


Drawing No: **FIGURE F10-1** Rev: **0**

File Name: Z:\UK\IED\B1\2\lts\PR-482591_Shannon_LNG_Consultancy_Servic900_CAD_GIS\920_GIS\EIAR\GIS\02_Maps\2024_Update\Landscapes\Figure 11.1 - Landscape Designations_20240307.mxd



File Name: Z:\UK\IED\B1\2\Jobs\PR-482591_Shannon_LNG_Consultancy_Servic900_CAD_GIS\920_GIS\EIAR\GIS\02_Update\Landscapes and Seascapes Designations_2024\0307.mxd



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LEGEND

- Proposed Development Boundary
- ▲ Viewpoint / Photomontage locations
- Study Area Radius (7 km)
- Co. Clare Seascape Character Areas**
- Lower Shannon
- River Shannon
- Co. Kerry**
- Views and Prosepts - Both Directions
- ▲ Views and Prosepts - One Direction
- Wild Atlantic Way Touring Route
- Regional Seascape Character Type**
- Large Estuary
- Landscape Type**
- Flat Estuary Farmland and Islands
- Farmed Lowland Ridges
- Farmed Rolling Hills
- Peninsular Farmland
- Regional Seascape Character Areas**
- Shannon Estuary and Tralee Bay

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 Client: **CONFIDENTIAL**
 Project Title: **SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT**
 Drawing Title: **LANDSCAPE AND SEASCAPE DESIGNATIONS**

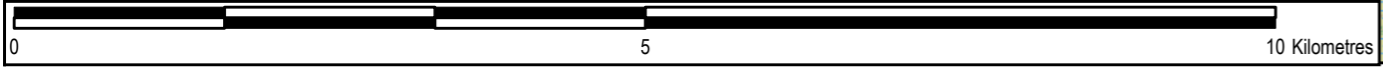
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Drawing No: FIGURE F10.2	Rev: 0
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LEGEND

-  Proposed Development Site Boundary
-  2 km Study Area
-  Protected Structures
-  Sites and Monuments Record (SMR)
-  Sallowglen Planned Landscape (2047)

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Purpose of Issue: **FINAL**

Client: **CONFIDENTIAL**

Project Title:
SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT

Drawing Title:
HERITAGE ASSETS WITHIN THE 2KM STUDY AREA

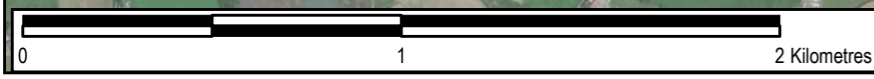
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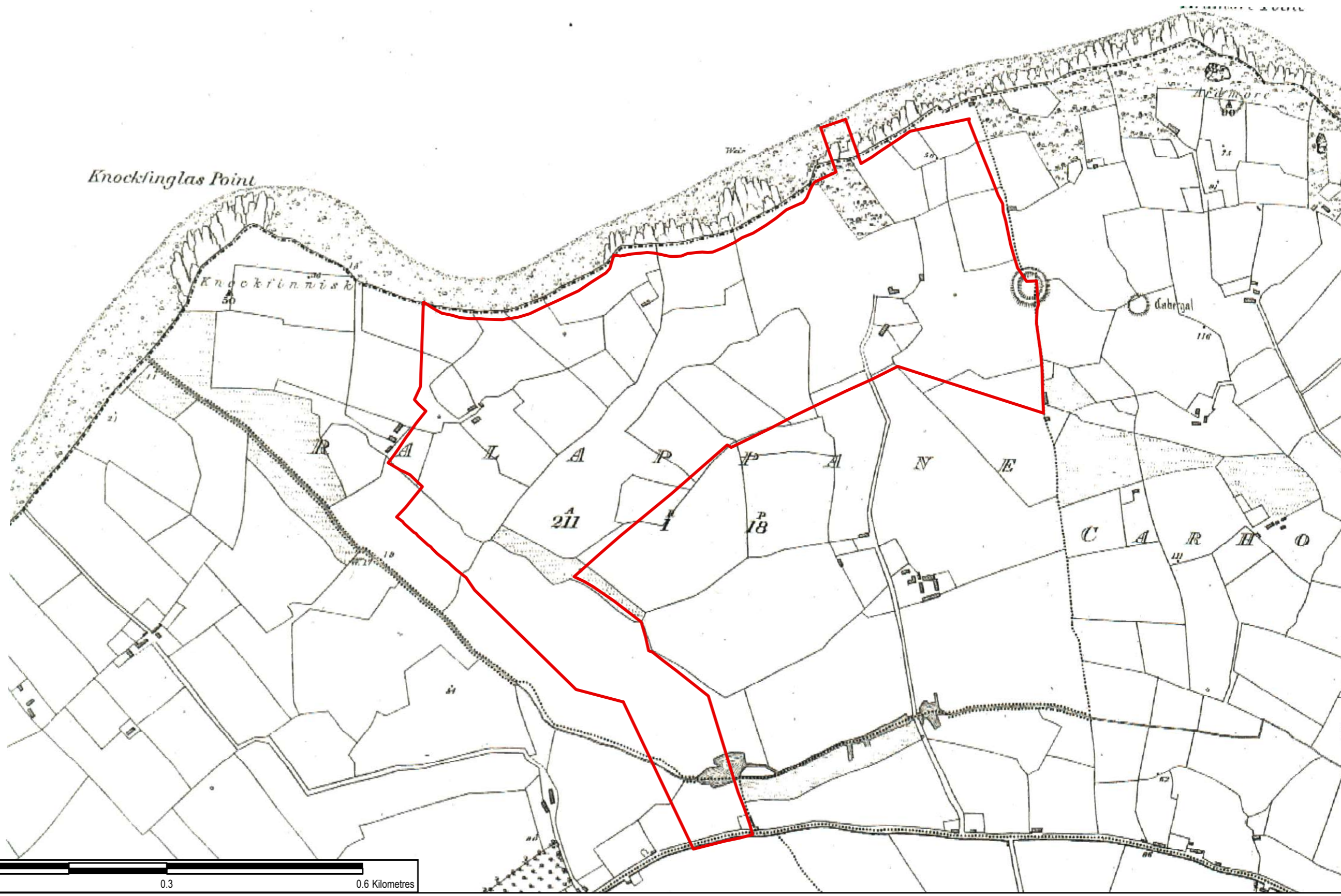


Drawing No: **FIGURE F12-1** Rev: **0**





 Development Boundary



File Name: Z:\UK\IEDBL\2\lts\PR-482591_Shannon_LNG_Consultancy_Servic900_CAD_GIS920_GIS\SIAR\GIS02_Maps\2024_Update\Heritage\Figure F12-2_1st Edition OS Map_20240228.mxd

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Purpose of Issue: FINAL

Client: CONFIDENTIAL

Project Title:
SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT

Drawing Title:
1ST EDITION OS MAP (1884)

Drawn: TS	Chk'd: RD	App'd: POC	Date: 28/02/2024
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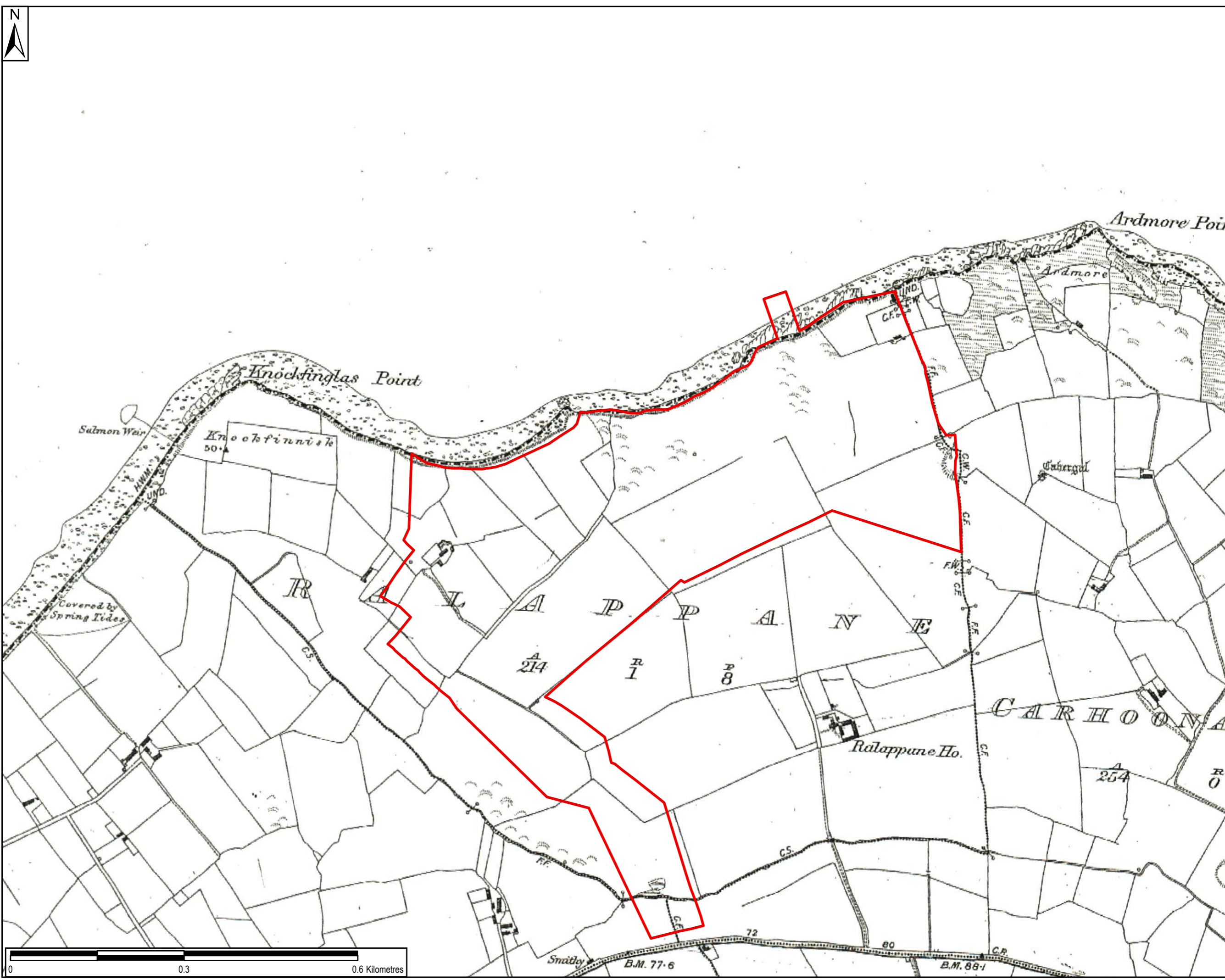
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Drawing No: FIGURE F12-2
Rev: 0



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LEGEND
Development Boundary

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Purpose of Issue: FINAL

Client: CONFIDENTIAL

Project Title: SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT

Drawing Title: 2ND EDITION OS MAP (1896)

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AECOM Internal Project No: PR-482591		Scale at A3: 1:6,000	

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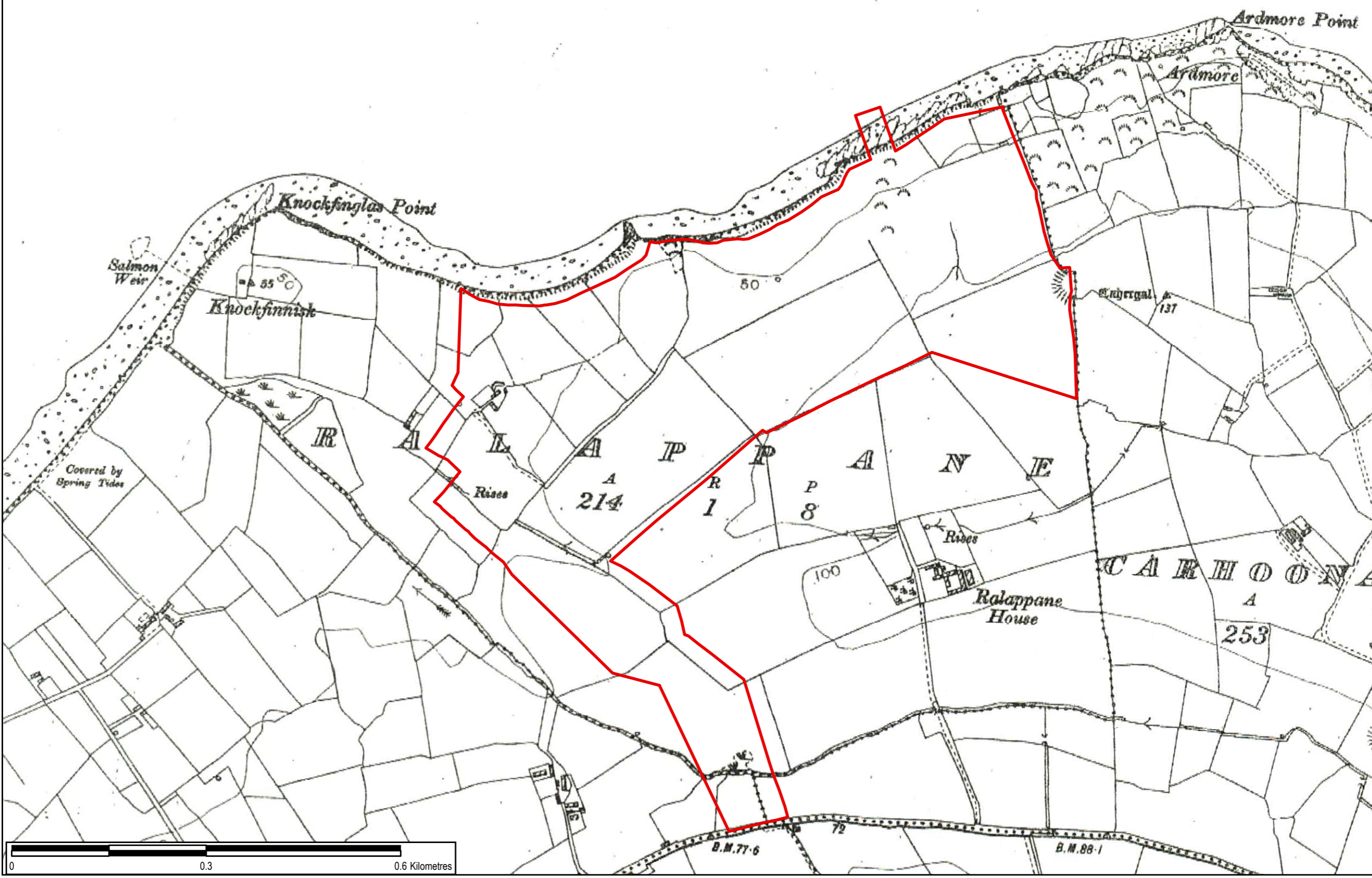


Drawing No: FIGURE F12-3 Rev: 0



LEGEND

Development Boundary



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Purpose of Issue: **FINAL**

Client: **CONFIDENTIAL**

Project Title: **SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT**

Drawing Title: **3RD EDITION OS MAP (1921)**

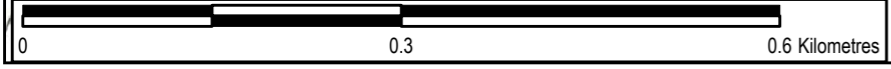
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Drawing No: **FIGURE F12-4** Rev: **0**





File Name: Z:\UK\IED\BL2\Jobs\PR-482591_Shannon_LNG_Consultancy_Service\900_CAD_GIS\920_GIS\EI\AR\GIS\02_Maps\2024_Update\Heritage\Figure F12-5 Cultural Heritage Sites identified during the EIS in 2006_20240228.mxd



LEGEND

- Development Boundary
- Cultural Heritage Sites

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Client: **CONFIDENTIAL**

Project Title:
SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT

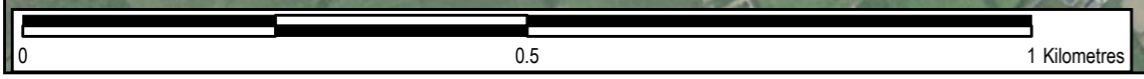
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Drawn: TS	Chk'd: RD	App'd: POC	Date: 28/02/2024
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LEGEND

- Development Boundary
- Suggested Extent of Archaeological Potential

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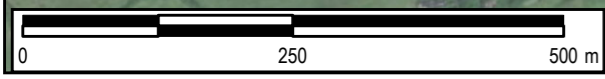
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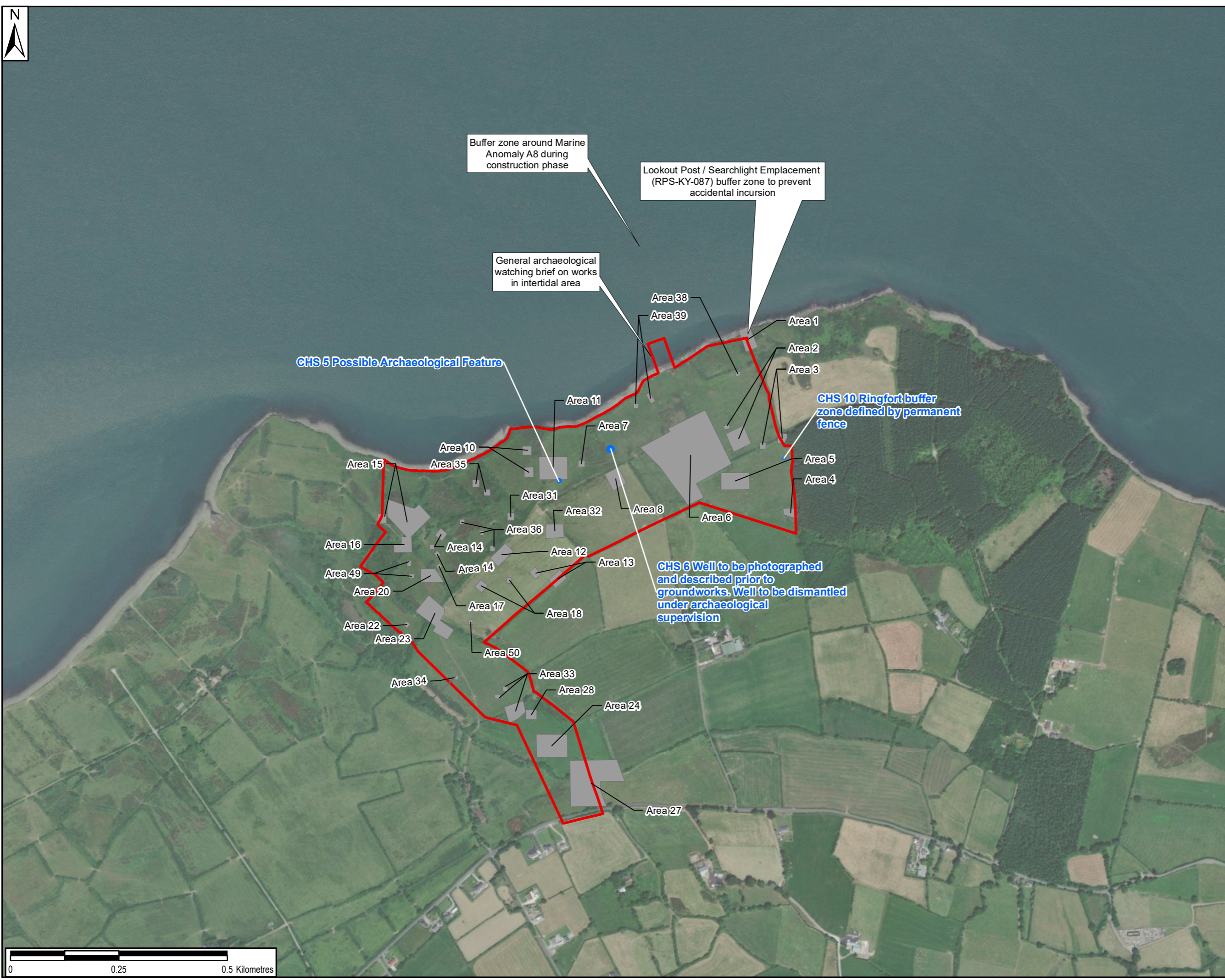
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LEGEND

- General archaeological watching brief carried out for groundworks
- Cultural Heritage Sites
- Suggested Extent of Archaeological Potential

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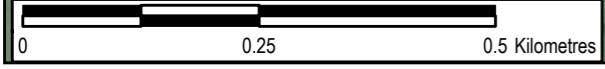
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SHANNON TECHNOLOGY AND ENERGY PARK (STEP) POWER PLANT

Drawing Title:
PROPOSED HERITAGE MITIGATION

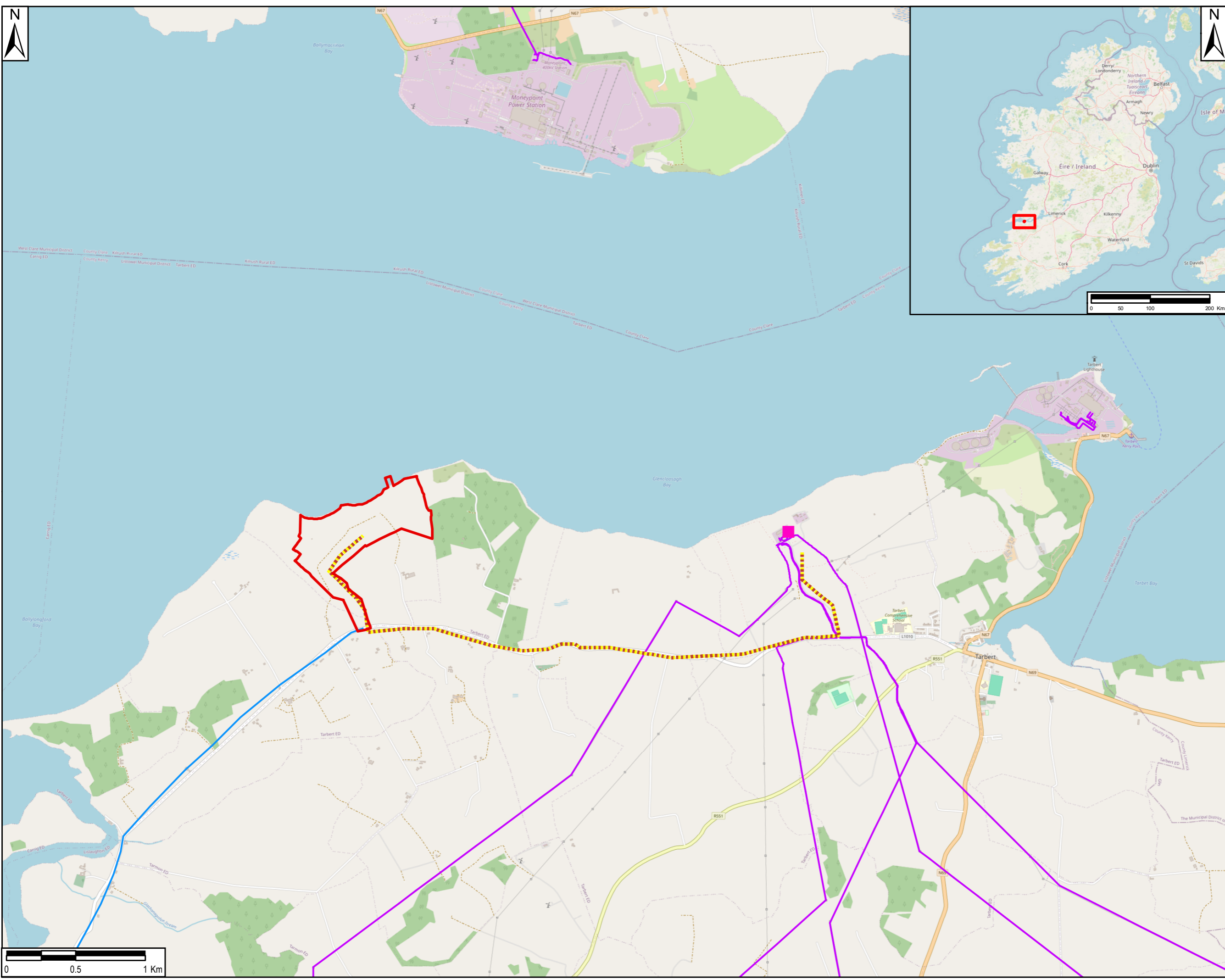
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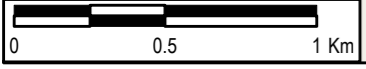
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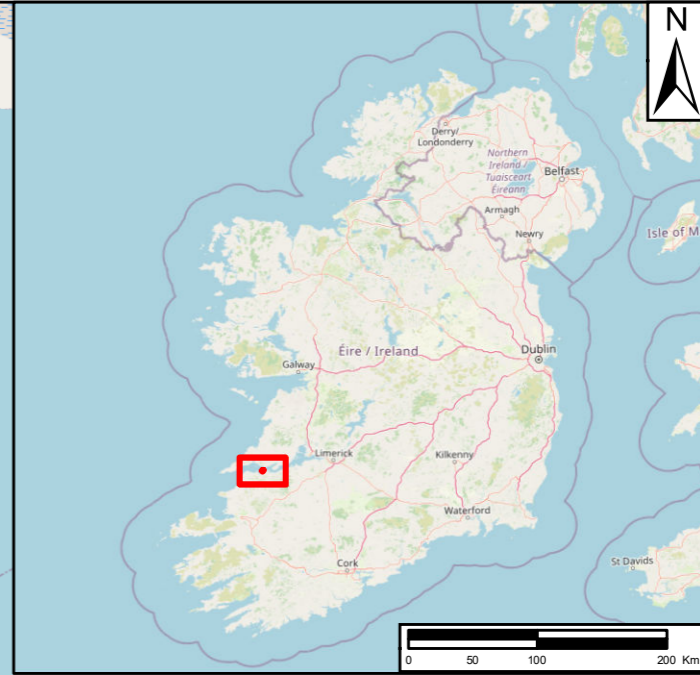
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- LEGEND**
- Proposed Development Site Boundary
 - Proposed 20kV Connection
 - Proposed 220kV Connection
 - Proposed Water Connections
 - ESB High Voltage Powerlines
 - Kilpaddoge Substation



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UTILITIES

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