



Portland
energy recovery
facility

Updated
Shadow Appropriate Assessment -
Working Draft

November 2022



1.0 Introduction

- 1.1 This shadow Appropriate Assessment has been prepared in support of a planning application for the proposed development of an Energy Recovery Facility (ERF) with ancillary buildings and works including administrative facilities, gatehouse and weighbridge, parking and circulation areas, cable routes to ship berths and existing off-site electrical sub-station, with site access through Portland Port from Castletown.
- 1.2 The assessment has been informed by air quality modelling and assessment work undertaken by Fichtner as part of the environmental impact assessment (EIA) process and reported in the environmental statement (ES) and subsequent addendum documents. The Fichtner reports that have informed this assessment are as follows, and key figures are reproduced within the main text and appendix 5 for ease of reference:
- Technical Appendix D1: Baseline Analysis to the September 2020 ES
 - Technical Appendix D2: Process Emissions Modelling to the September 2020 ES (erratum version submitted November 2021)
 - Appendix 3.1: Air Quality Impact of Operation of Emergency Diesel Generator to the January 2022 Second ES Addendum
 - Appendix 3.4: Additional Dispersion Modelling to the January 2022 Second ES Addendum (erratum version submitted March 2022)
- 1.3 Over the course of the application process baseline deposition rates and concentrations of pollutants for protected sites have been updated on the Air Pollution Information Service (APIS) website. Updates to the APIS website took place at the end of March 2021 and again in mid-May 2022. The March 2021 baseline figures have been used in the air quality modelling (Appendix 3.4 of the January 2022 Second ES Addendum, erratum version). Fichtner have reviewed the current baseline deposition rates and concentrations of pollutants presented on APIS (as of 15 November 2022) and concluded this has no effect on the dispersion modelling carried out for the project as the baseline concentration is added post modelling.
- 1.4 In terms of the effect the more recent data (May 2022) has upon the assumed baseline levels, the NO_x concentration has reduced from:
- 35.3 µg/m³ to 31.3 µg/m³ in the port;
 - 10.2 µg/m³ to 9.7 µg/m³ around the prison;
 - 10.3 µg/m³ to 9.9 µg/m³ along the causeway.
- 1.5 The ammonia has also changed from being a 5km grid average to a 1km grid average. However, across Portland the baseline concentration on APIS has remained at 0.7 µg/m³. Background nitrogen deposition levels at the western end of Chesil and the Fleet SAC have increased by 0.3kg/N/ha/yr (see Table 12).
- 1.6 The stack location lies within 10km of five statutory designated sites within the national site network (NSN). Four of these are terrestrial sites: The Isle of Portland to Studland Cliffs Special Area of Conservation (SAC), Chesil Beach and the Fleet Special Protection Area (SPA), Chesil and the Fleet SAC and Crookhill Brick Pit SAC. Chesil Beach and the Fleet is also a Ramsar site. The 10km area of search also encompasses parts of the Studland to Portland SAC, a marine site. The location of the site relative to these sites is shown in figure 1.

- 1.7 The use of a 10km area of search to identify sites within the NSN which may be impacted by the proposed project was agreed with Natural England following the production of the initial air quality modelling. This modelling shows that pollutants from the ERF are below 1% of the relevant critical level and load thresholds within 2km of the site for the most sensitive habitats found within the Isle of Portland to Studland Cliffs SAC and the Chesil and the Fleet SAC. Over 5km from the site the contributions from the facility are imperceptibly small. Based on findings of the modelling it was confirmed that the 10km area of search was appropriate.
- 1.8 These sites receive statutory protection under the Conservation of Habitats and Species Regulations 2017 (as amended) (the ‘Habitats Regulations’). The Habitats Regulations afford a high level of protection to sites classified as areas that hold significant populations of certain bird species (SPAs). They also afford the same level of high protection to tracts of land supporting habitats or rare species (other than birds) considered scarce or vulnerable at a European community level (SACs).
- 1.9 Ramsar sites are designated as wetlands of international importance that are afforded similar legislative protection to SPAs and SACs. The government has issued policy statements relating to the special status of Ramsar sites. This extends the same protection afforded to SPAs and SACs.
- 1.10 Under the Habitats Regulations, Dorset Council (DC) is a competent authority, responsible for ensuring that development management decisions do not adversely affect the integrity of NSN sites. This document provides information for the Habitats Regulations Assessment that DC will need to undertake in determining the planning application for the site. This document considers the implications of the project for the conservation objectives of the five NSN sites to determine whether the project will have an adverse effect on the integrity of the sites, either alone, or in combination with other plans and projects.
- 1.11 Where changes in air quality have been identified as a potential impact pathway for NSN sites the assessment framework set out in Chapter 5 of the Natural England guidance to competent authorities on the assessment of road traffic emissions has been followed.

2.0 Legislative context and the tests of the Habitats Regulations

2.1 SACs and SPAs form part of a network of nature protection areas within the UK known as the National Site Network (NSN) and are protected in the determination of a planning application. Under Regulation 63 of the Habitats Regulations the competent authority is responsible for assessing whether land use plans or proposed developments could adversely affect a NSN site. This requires a process known as a Habitats Regulations Assessment (HRA), encompassing two tests required under Regulation 63(1) of the Habitats Regulations.

- **Test 1:** having ascertained that the plan is not directly connected to, or necessary for site management for nature conservation, the first test of the HRA, commonly referred to as a screening test, considers whether or not a plan or project is likely to have a significant effect on an NSN site either alone or in combination with other plans or projects. A significant effect is any effect that would undermine the conservation objectives for the respective NSN site and may include physical loss and/or damage of a habitat, disturbance effects, and changes to water availability, deposition of contaminants through changes in air quality etc.
- **Test 2:** The second test of the HRA is relevant to those plans or projects that are screened as likely to have a significant effect alone or in combination with other plans or projects, and requires an appropriate assessment. The role of the appropriate assessment is to consider the implications of the plan or project for the conservation objectives of the NSN sites in question, and to determine whether it will have an adverse effect on the integrity of the site. In carrying out an appropriate assessment, a local authority must have regard to the manner in which the project is proposed to be carried out, or to any conditions or restrictions subject to which it proposes that the consent, permission or other authorisation should be given.

2.2 A likely significant effect is any effect that is likely to undermine the site's conservation objectives, in light of the characteristics and specific environmental conditions of the SAC/SPA. The likely significant effect test must be based on objective information and the risks must be real, not hypothetical (Boggis vs Natural England 2009).

2.3 A 2018 case in the European Court Judgment (ECJ) People Over Wind and Sweetman v Coillte Teoranta (C-323/17) has altered the process of screening for likely significant effects by overturning the 2008 Hart District Council vs. Secretary of State judgment (2008), known as Dilley Lane. The Dilley Lane judgment stated *"there is no legal requirement that a screening assessment... must be carried out in the absence of any mitigation measures that form part of that plan or project"*.

2.4 The recent People Over Wind and Sweetman ruling states that *"it is not appropriate, at the screening stage, to take account of measures intended to avoid or reduce the harmful effects of the plan or project on that site"*. This means that mitigation measures must be excluded from the assessment of whether a project is likely to have a significant effect, either alone or in combination with other plans and projects.

2.5 In line with the ECJ ruling in Briels (2014) the adverse effect on integrity test that forms part of the appropriate assessment can *"take account of the protective measures forming part of the project aimed at avoiding or reducing any direct adverse effects for the site in order to avoid any adverse effects on integrity"*.

2.6 The ECJ ruling in Grace and Sweetman (C-164/17) highlights that a measure can only be considered mitigation *"where it is certain it will make an effective contribution to avoiding harm, guaranteeing beyond all reasonable doubt no adverse effect"*.

- 2.7 Guidance produced by the UK government highlights key principles to be considered by the competent authority when considering if an appropriate assessment is required. It notes that measures that have been specifically added to achieve the purpose of reducing its harmful effects on a habitats site should not be considered at the screening stage.
- 2.8 The government guidance notes that *“the scope and content of an appropriate assessment will depend on the nature, location, duration and scale of the proposed plan or project and the interest features of the relevant site. ‘Appropriate’ is not a technical term. It indicates that an assessment needs to be proportionate and sufficient to support the task of the competent authority in determining whether the plan or project will adversely affect the integrity of the site”*.

Conservation objectives

- 2.9 Conservation objectives are identified for all NSN sites and cover all features that qualify the site for classification or designation. The conservation objectives apply under the Habitats Regulations, Habitats Directive and Wild Birds Directive, and must be considered during a Habitats Regulations Assessment, including an Appropriate Assessment.

3.0 Description of development and scope of assessment

- 3.1 The proposed development is for an Energy Recovery Facility with ancillary buildings and works including administrative facilities, gatehouse and weighbridge, parking and circulation areas, cable routes to ship berths and existing off-site electrical sub-station, with site access through Portland Port from Castletown. Further details of the proposals can be found in Chapter 2 of the Environmental Statement (ES) submitted in support of the planning application.
- 3.2 The initial ecological evaluation of the scheme identified habitats within the NSN sites that would be sensitive to additions of certain pollutants, notably nitrogen and ammonia. Throughout the development of the proposed scheme Fichtner (the air quality consultants) and Terence O'Rourke (the ecology consultants) have worked together to test various options relating to stack height, stack location and the implementation of additional technologies to the process to reduce these emissions (particularly nitrogen and ammonia) on relevant areas of the NSN sites. The air quality reports produced by Fichtner can be found in technical appendix D2 of the ES (erratum version, November 2021), with additional reports provided in appendices 3.1 and 3.4 of the second ES addendum (January 2022; appendix 3.4 was subsequently replaced by an erratum version in March 2022).
- 3.3 The final stack height is the result of efforts to reduce the deposition of aerial pollutants on NSN sites in close proximity to the application site. As such the increase in stack height is regarded as mitigation (as defined by ECJ rulings and government advice - see paragraphs 2.4 – 2.7). This necessitates the undertaking of an appropriate assessment to assess the implications of the project for the conservation objectives of the NSN sites.
- 3.4 Other measures have also been proposed, such as the requirement for a Construction Environmental Management Plan (CEMP) to reduce the risk of impacts on the NSN sites (and other sensitive ecological sites, as assessed in the ES). These measures are also considered to be mitigation and therefore require the undertaking of an appropriate assessment.
- 3.5 Section 4 of this document outlines the interest features of the five sites within the NSN that fall within 10km of the application boundary. Section 5 sets out the likely significant effects assessment where objective information is used to determine if the proposed development will, in the absence of mitigation measures, result in any effect that is likely to undermine the designated site's conservation objectives, in light of the characteristics and specific environmental conditions of the SAC/SPA/Ramsar site.
- 3.6 Section 5 also sets out the rationale for the exclusion of certain likely significant effects from further assessment at this stage. The likely significant effect test must deal with risks that are real, not hypothetical. Potential plausible risk pathways are examined, but if no risk of likely significant effects is identified, these risks are discounted from further assessment.
- 3.7 Section 6 is the appropriate assessment of the likely significant effects of the scheme on interest features of the relevant NSN sites as identified in Section 5. Section 6 deals with impacts from the proposals alone. Section 7 assesses the likely significant effects of the proposed project in-combination with other plans and projects.
- 3.8 Section 8 sets out the conclusions of the shadow appropriate assessment provided by the applicant for the benefit of the competent authority. In undertaking its own Habitats

Regulations Assessment of the proposed project, the competent authority will form its own view on the impacts of the scheme on the NSN.

- 3.9 It is important for the competent authority to be aware that over the course of the application process background deposition rates and concentrations of pollutants for protected sites have been updated on the Air Pollution Information Service (APIS) website. This means that the various technical reports produced to support application will quote different background deposition rates and concentrations of pollutants for protected sites depending on when they were produced (see paragraphs 1.3-1.4).

4.0 Baseline

4.1 The following section sets out the location, designation criteria and conservation objectives of the five NSN sites to be considered in this shadow appropriate assessment. The locations of these sites relative to the application site are shown in figure 1. Copies of the SAC/SPA and Ramsar citations are included in Appendix 1.

Chesil Beach and the Fleet SPA and Ramsar

4.2 The classified site qualifies as a SPA under article 4.1 of the Directive (79/409/EEC) as 1% or more of the biogeographical populations of one regularly occurring migratory species regularly use the site. The area regularly supports:

- 70 breeding pairs of little tern (*Sternula albifrons*): five-year mean of 54 pairs (1980-1984), representing 2.5% of the GB breeding population.

4.3 The classified site qualifies as a SPA under article 4.2 of the Directive (79/409/EEC) as 1% or more of the biogeographical populations of one regularly occurring migratory species regularly use the site. Over winter the area regularly supports:

- 1% of the North-western Europe population of wigeon (*Mareca penelope*): five-year peak mean 1980-81-1984-85, 4,594 individuals.

4.4 The information used in the assessment is set out in the SPA citation (site code: UK9010091). The citation was compiled in July 1985 and updated in November 2017.

4.5 The same SPA site qualifies for designation as a Ramsar site for supporting breeding little tern. It is also an important site for breeding common tern (*Sterna hirundo*) and ringed plover (*Charadrius histicula*). The Fleet is notable for the diversity of wintering waders and wildfowl. Alongside the wigeon population described above the site supports pochard (*Aythya ferina*), teal (*Anas crecca*), pintail (*Anas acuta*), mallard (*Anas platyrhynchos*), shoveler (*Spatula clypeata*), tufted duck (*Aythya fuligula*) and goldeneye (*Bucephala clangula*).

4.6 The SPA supports the largest resident mute swan (*Cygnus olor*) population in Britain and wintering dark-bellied brent geese (*Branta bernicula bernicula*).

4.7 Chesil Beach is one of the five largest shingle beaches in Britain. The small pebbled shingle in the western area supports a rich flora characteristic of unstable shingle. The Fleet is the largest regularly-tidal lagoon in Britain and contains a mixed population of eelgrasses (*Zostera* spp), spiral tasselweed (*Ruppia cirrhosa*), a rare stonewort (*Chara* sp) and diverse marine algae communities. The more marine influenced areas support populations of the sponge *Suberites massa*, the goby *Gobins couchi*, burrowing anemone *Scolanthus callimorphus* and the polychaete *Sabella flabellata*.

4.8 At the time the citation was prepared the eastern end of Chesil Beach was believed to support the only population of scaly cricket (*Pseudomogoplistes squamiger*) in the British Isles. In 1998 a second colony was discovered in Devon.

Chesil and The Fleet SAC

4.9 This SAC site covers 1631.63ha and was designated in April 2005 (Site code:UK0017076). The site supports the following Annex I habitat types: Annual vegetation of drift lines, Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*),

Coastal lagoons (a priority habitat), Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruitcosi*) and perennial vegetation of stony banks.

- 4.10 The Fleet is the largest example of a lagoonal habitat in England and has features of both lagoonal inlets and percolation lagoons. It is bordered by the fossil shingle barrier beach structure of Chesil Beach, through which sea water percolates into the lagoon, but most of its water exchange occurs through the narrow channel that links it to Portland Harbour. A low freshwater input produces fully saline conditions throughout most of the Fleet, with reduced salinity occurring only in the west. The lagoon is extremely sheltered from wave action and has weak tidal streams, except in the eastern narrows and entrance channel. The tidal range is much smaller and the temperature range far greater than on the open coast. The lagoon supports extensive populations of two species of eelgrass *Zostera* and three species of tasselweed *Ruppia*, including the rare spiral tasselweed *R. cirrhosa*, and a diverse fauna that includes a number of nationally rare and scarce species.
- 4.11 The Annex I habitat Annual vegetation of drift lines is present on the inner shore of Chesil Bank and the shoreline of Portland Harbour. The inner shore of Chesil Bank supports extensive drift line vegetation dominated by sea beet (*Beta vulgaris* subsp. *maritima*) and orache (*Atriplex* spp). On the shoreline of Portland Harbour this feature is additionally represented by a small area of sea sandwort (*Honckenya peploides*) and sea rocket (*Cakile maritima*).
- 4.12 Over a large part of the designated site, the strandline vegetation appears to exist in a dynamic equilibrium with the shrubby sea-blite (*Suaeda vera*) dominated scrub, which is described below.
- 4.13 The Annex I habitat Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruitcosi*) forms a band of shrubby sea-blite and sea-purslane (*Atriplex portulacoides*) that lines much of the 13 km length of the seaward margin of the Fleet and forms a clear zone between the Fleet and the shingle vegetation of the Chesil Bank. It is also found above the upper limit of tidal inundation in ground depressions where saline conditions occur, for example, at the southern end of Portland Harbour shore.
- 4.14 Two other species, sea beet and the lichen *Xanthoria parietina*, occur in low abundance. It appears to exist in a dynamic equilibrium with the sea beet dominated drift line vegetation, for which the site has been separately selected. This replaces the scrub in areas subject to disturbance by waves or erosion, and is in turn displaced by the scrub after disturbance ceases.
- 4.15 Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*) occur within the site although no specific details are provided in the designation documentation. A report published by Footprint Ecology in March 2019 identified this habitat as occurring in sheltered areas along the Fleet shoreline, particularly tidal inundation pools. The largest stands were found around Abbotsbury Swannery.
- 4.16 The 28 km-long shingle bar of Chesil Beach, with the contiguous Portland Harbour shore, is an extensive representative of perennial vegetation of stony banks on the south coast of England, and most of it is relatively undisturbed by human activities. Much of the shingle bar is subject to wash-over and percolation in storm conditions and is therefore sparsely vegetated. It supports the most extensive occurrences of the rare sea-kale (*Crambe maritima*) and sea pea (*Lathyrus japonicus*) in the UK, together with other grassland and lichen-rich shingle plant communities typical of more stable conditions, especially towards the eastern end of the site.

Isle of Portland to Studland Cliffs SAC

- 4.17 This SAC site covers 1447.5ha and was designated in April 2005 (Site code:UK0019861). It supports the following Annex I habitat types: Annual vegetation of drift line, vegetated sea cliffs of the Atlantic and Baltic coasts, semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*) and populations of the Annex II species early gentian (*Gentianella anglica*).
- 4.18 Isle of Portland to Studland Cliffs, including the detached peninsula of Portland, with St Albans Head to Durlston Head, forms a single unit of cliffed coastline some 40 km in length. The cliffs are formed of hard limestones, with chalk at the eastern end, interspersed with slumped sections of soft cliff of sand and clays. Along these cliffs the Annex I habitat vegetated sea cliffs of the Atlantic and Baltic coasts occurs.
- 4.19 The cliffs support species-rich calcareous grassland with species that are rare in the UK, such as wild cabbage (*Brassica oleracea* var. *oleracea*), early spider-orchid (*Ophrys sphegodes*) and Nottingham catchfly (*Silene nutans*). The Portland peninsula, extending 8 km south of the mainland, demonstrates very clearly the contrast between the exposed western and southern coasts, with sheer rock faces and sparse maritime vegetation, and the sheltered eastern side, with sloping cliffs supporting scrub communities, where wood spurge (*Euphorbia amygdaloides*) grows in grassland.
- 4.20 The Annex I habitat semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*) occurs at this SAC in both inland and coastal situations on both chalk and Jurassic limestone. The SAC contains extensive species-rich examples of CG4 *Brachypodium pinnatum* grassland in the southern part of its UK range. Smaller areas of CG2 *Festuca ovina* – *Avenula pratensis* grassland occur on shallow soils on steeper slopes. Transitions from calcareous grassland to both chalk heath and acid grassland are also present. The SAC has well-developed terricolous and saxicolous lichen and bryophyte communities associated with open turf, chalk rock and pebbles, and flinty soils. The SAC is also an important orchid site.
- 4.21 A report commissioned from the Dorset Environmental Records Centre (DERC) noted that CG4 grassland is widespread across the Island in and around abandoned quarries, remnants of the old common at the Bill and Verne and on the wide undercliffs (although stands are localised within the SAC). Of the three limestone grasslands (CG1, CG3 and CG4) CG1 is by far the most important for lower plants, providing a habitat for several key Mediterranean bryophytes and lichens (Edwards, 2021 – see Appendix 2).
- 4.22 The Annex I habitat Annual vegetation of drift lines is present as a qualifying feature, but is not the primary reason for the selection of the SAC. This habitat occurs on deposits of shingle lying at or above the mean high-water mark of spring tides. These areas are subject to periodic displacement or overtopping by high tides and storms. The vegetation communities are largely composed of annual or short-lived perennial species.
- 4.23 The presence of populations of early gentian is a primary reason for the selection of the SAC. Together with St Albans Head to Durlston Head, the SAC supports important long-standing populations of early gentian numbering several thousands of plants in floristically-rich calcareous grassland.

Crookhill Brick Pit SAC

- 4.24 Crookhill Brick pit covers 4.46ha and is designated for supporting a population of the Annex II species great crested newt (*Triturus cristatus*). The SAC contains several

ponds that support great crested newts, including one pond which has been recorded to have one of the highest counts of the species in Dorset. The SAC also contains a variety of habitats used by the great crested newt in the terrestrial phase, including grassland, scrub and quarry spoil. The newer ponds were created as part of a mitigation project for the construction of a waste transfer station. The disused brickpit also has important geological features (exposure of Lower and Middle Oxford Clay).

Studland to Portland SAC

- 4.25 Studland to Portland SAC covers 33184.28ha and is designated for supporting the Annex I habitat reefs. This SAC contains numerous areas of reef in many forms, which exhibit a large amount of geological variety and biological diversity. Features of particular interest within the Studland Bay to Ringstead Bay area include a series of limestone ledges (up to 15m across) protruding from shelly gravel at Worbarrow Bay, which support a rich sponge and sea fan community; dense brittlestar beds (*Ophiothrix fragilis*) on shale reefs extending from Kimmeridge; a unique reef feature, known as St Albans ledge, extending out over 10km offshore and subject to strong tidal action; and an area of large limestone blocks known as the “seabed caves”. The Portland Reefs are characterised by flat bedrock, limestone ledges (Portland stone), large boulders and cobbles. On the western side of Portland Bill, rugged limestone boulders provide deep gullies and overhangs. Mussel beds (*Mytilus edulis*) are found to occur in very high densities on bedrock associated with strong currents to the southeast of Portland Bill.

Chesil Beach and The Fleet SPA conservation objectives

- 4.26 The conservation objectives for the SPA have been prepared by Natural England. With regard to the SPA and the individual species and/or assemblage of species for which it has been classified (the ‘qualifying features’), and subject to natural change; the conservation objectives aim to ensure that the integrity of the SPA is maintained or restored as appropriate, and ensure that the SPA contributes to achieving the aims of the Wild Birds Directive, by maintaining or restoring:

- The extent and distribution of the habitats of the qualifying features
- The structure and function of the habitats of the qualifying features
- The supporting processes on which the habitats of the qualifying features rely
- The population of each of the qualifying features
- The distribution of the qualifying features within the SPA

Ramsar

- 4.27 For Ramsar sites, a decision has been made by Defra and Natural England not to produce Conservation Advice packages, instead focussing on the production of High Level Conservation Objectives. As the provisions on the Habitats Regulations relating to HRAs extend to Ramsar sites, Natural England considers the Conservation Advice packages for the overlapping European Marine Site designations to be, in most cases, sufficient to support the management of the Ramsar interests. If there are Ramsar qualifying features not covered by overlapping European Marine Sites, Natural England will advise on the best approach on addressing these (e.g. to produce advice on a feature basis) if there is an operational risk.

Chesil and The Fleet SAC conservation objectives

4.28 The conservation objectives for the SAC have been prepared by Natural England. With regard to the SAC and the natural habitats and/or species for which it has been designated (the ‘qualifying features’), and subject to natural change; the conservation objectives aim to ensure that the integrity of the SAC is maintained or restored as appropriate, and ensure that the site contributes to achieving the Favourable Conservation Status of its qualifying features, by maintaining or restoring:

- The extent and distribution of qualifying natural habitats
- The structure and function (including typical species) of qualifying natural habitats
- The supporting processes on which qualifying natural habitats rely

4.29 The supplementary advice on conserving and restoring site features, which accompanies the conservation objectives, sets an objective for air quality of: maintaining, as necessary, the concentrations and deposition of air pollutants to at, or below, the site-relevant critical loads or levels given on the Air Pollution Information System (APIS) website. This advice is relevant to the Annex I habitats perennial vegetation of stony banks, Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*) and Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruitcosi*).

Crookhill Brick Pit SAC conservation objectives

4.30 The conservation objectives for the SAC have been prepared by Natural England. With regard to the SAC and the natural habitats and/or species for which it has been designated (the ‘qualifying features’), and subject to natural change; the conservation objectives aim to ensure that the integrity of the site is maintained or restored as appropriate, and ensure that the SAC contributes to achieving the Favourable Conservation Status of its qualifying features, by maintaining or restoring:

- The extent and distribution of the habitats of the qualifying features
- The structure and function of the habitats of the qualifying features
- The supporting processes on which the habitats of the qualifying features rely
- The population of each of the qualifying features
- The distribution of the qualifying features within the SAC

4.31 The supplementary advice on conserving and restoring site features, which accompanies the conservation objectives, sets an objective for air quality of: maintaining, as necessary, the concentrations and deposition of air pollutants to at, or below, the site-relevant critical loads or levels given on the APIS website. This relates to the supporting habitat used by great crested newts, both for breeding and during the terrestrial phase of their lifecycle.

Isle of Portland to Studland Cliffs SAC conservation objectives

4.32 The conservation objectives for the SAC have been prepared by Natural England. With regard to the SAC and the natural habitats and/or species for which it has been designated (the ‘qualifying features’ listed below), and subject to natural change; these aim to ensure that the integrity of the SAC is maintained or restored as appropriate, and ensure that the SAC contributes to achieving the Favourable Conservation Status of its qualifying features, by maintaining or restoring:

- The extent and distribution of qualifying natural habitats and habitats of the qualifying species
 - The structure and function (including typical species) of qualifying natural habitats
 - The structure and function of the habitats of qualifying species
 - The supporting processes on which qualifying natural habitats and the habitats of qualifying species rely
 - The populations of qualifying species
 - The distribution of the qualifying species within the SAC
- 4.33 The supplementary advice on conserving and restoring site features, which accompanies the conservation objectives, sets an objective for air quality of: maintaining, as necessary, the concentrations and deposition of air pollutants to at, or below, the site-relevant critical loads or levels given on the APIS website. This advice is relevant to the Annex I habitats vegetated sea cliffs of the Atlantic and Baltic coasts and semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*) and encompasses the populations of the Annex II species early gentian.

Studland to Portland SAC conservation objectives

- 4.34 The conservation objectives for the SAC have been prepared by Natural England. With regard to the SAC and the natural habitats and/or species for which it has been designated (the 'qualifying features' listed below), and subject to natural change; these aim to ensure that the integrity of the SAC is maintained or restored as appropriate, and ensure that the SAC contributes to achieving the Favourable Conservation Status of its qualifying features, by maintaining or restoring:
- The extent and distribution of qualifying natural habitats
 - The structure and function (including typical species) of qualifying natural habitats
 - The supporting processes on which the qualifying natural habitats rely

5.0 Likely significant effect (LSE) test

- 5.1 The first test of Regulation 63 of the Habitats Regulations requires an assessment of whether the emissions from the scheme, or any other activities, are likely to have a significant effect on the NSN sites in question, either alone or in combination with other plans and projects.
- 5.2 As set out in paragraph 2.2 a likely significant effect (LSE) is any effect that is likely to undermine the designated site's conservation objectives, in light of the characteristics and specific environmental conditions of the SAC/SPA/Ramsar. The likely significant effect test must be based on objective information and the risks must be real, not hypothetical.
- 5.3 The following potential impacts associated with the proposed ERF on sites within the NSN have been identified for consideration in the LSE assessment:
- Dust generation associated with construction of the ERF
 - Run-off from the site, fuel spill or release of other contaminants (during construction or operation)
 - Emissions from traffic associated with the ERF (construction and operation)
 - Emissions from the ERF during operation
 - Noise and visual disturbance during construction and/or operation of the ERF
 - Loss or disturbance of habitats functionally linked to the SPA around Portland Harbour during construction or operation
- 5.4 The potential for LSE to occur from these impacts is considered for all the five sites identified in section 2. This section sets out the assessment of the LSE occurring at any one of the five sites for each activity. Where it is considered that there is no realistic impact pathway for LSE to occur, the evidence to underpin this decision has been provided. This section concludes with a list of LSE identified and the sites these relate to. There are then taken forward for appropriate assessment alone in Section 6 and in combination in Section 7.

Potential LSE – Dust generation during construction of the ERF

- 5.5 The Institute of Air Quality Management (IAQM) has produced guidance on the screening the likely impacts related to dust emissions (Holman et al, 2016). The guidance states that the screening *“is deliberately chosen to be conservative and will require assessment for most schemes”*. It states that assessment will normally be required where an ecological receptor is within 50m of the boundary of the site, or 50m of the routes used by construction vehicles on the public highway up to 500m from the site entrances.
- 5.6 Crookhill Brick Pit SAC and Studland to Portland SAC are all located well beyond the conservative zone of impact identified by IAQM for assessment. No realistic potential impact pathway relating to dust generation has been identified on these sites due to the distance between these NSN and the application boundary.
- 5.7 Chesil and the Fleet SAC lies over 100m from the application boundary and Chesil Beach and the Fleet SPA and Ramsar lies over 1.5km from the application boundary, which stops short of the roundabout on the A354. Construction vehicles will have already travelled over 500m from the construction site on internal port roads to reach this roundabout. This is beyond the distance where impacts from dust generated by

trackout are considered to require assessment (see paragraph 5.5). Cabling works will be required along Lerret road to connect the ERF to the substation. These works will be over 50m from the boundary for Chesil and the Fleet SAC. No realistic potential impact pathway relating to dust generation has been identified on these sites due to the distance between these NSN and the application boundary.

- 5.8 There is the potential for dust generation to impact on the Isle of Portland to Studland Cliffs SAC due to the proximity of the site to the application boundary.

Summary: Potential for LSE relating to generation of dust on interest features of Isle of Portland to Studland Cliffs SAC only.

Potential LSE – Pollution of marine environment during construction or operation of the ERF

- 5.9 There is the potential for run-off from the site, fuel spill or release of other contaminants (during construction or operation) to enter Portland Harbour. Although not part of the NSN, the harbour is hydrologically linked to the Fleet and a realistic pathway for pollutants to affect habitats within Chesil Beach and the Fleet SPA and Ramsar exists. The following Annex I habitats found within the Chesil and the Fleet SAC (Annual vegetation of drift lines and coastal lagoons) may also be impacted by any pollution event. Given the size of Portland Harbour (c10km²), the predominantly anti-clockwise tidal movement and the distance between the site and the boundary of the NSN, pollution events would have to be of sufficient scale for LSE to occur within the NSN.
- 5.10 Studland to Portland SAC lies beyond the outer wall of Portland Harbour. Although hydrologically linked to the site via the marine environment, no activities associated with the construction or operation of the ERF are considered to be of a scale that would result in a pollutant reaching this site in sufficient volumes or concentrations to result in likely significant effects. Due to the distance between the application site and Studland to Portland SAC, and the nature of the activities associated with this development, pollution events would have to be of sufficient scale for LSE to occur within the NSN.
- 5.11 There is no hydrological link between the application site and Crookhill Brick Pit SAC or the Isle of Portland to Studland Cliffs SAC. Due to the lack of hydrological connectivity, no realistic potential impact pathway relating to pollution of the marine environment has been identified on these sites.
- 5.12 Based on established case law, operational activities, such as the removal of residual incinerator bottom ash material (post-combustion) from the site via ship have been screened out due to the inert nature of the material leaving the site.

Summary: Potential for LSE relating to pollution of marine environment during construction or operation of ERF on interest features of Chesil Beach and the Fleet SPA and Ramsar, Chesil and the Fleet SAC and Studland to Portland SAC.

Potential LSE – Noise and visual disturbance during construction or operation of the ERF

- 5.13 Noise and visual impacts have been ruled out primarily due to the distance of the project from the SPA/Ramsar. The University of Hull has produced a Waterbird Disturbance Mitigation Toolkit to inform estuarine planning and construction projects (Cutts *et al*, 2013). The toolkit provides information on species' responses to varying noise levels and sources of visual disturbance.

- 5.14 Overall the toolkit concludes that noise levels below 50dB promoted a low level response in most estuarine species covered in the toolkit. A low level of response is classed as one where there is unlikely to be an observable response to the noise, e.g. reduction in feeding, birds scanning for danger etc. It should be noted that an observable reaction in a bird species is not the same as an impact. A brief change in behaviour in response to a noise event will not necessarily have any impact on the individual(s) concerned.
- 5.15 The toolkit suggests that the most sensitive species of wader will demonstrate an alert response to certain forms of visual disturbance at ranges of c300m. In certain circumstances (in countries where brent geese are a quarry species) brent geese have been recorded responding to disturbance stimuli at ranges of 350m.
- 5.16 A report produced by Footprint Ecology in 2015 assessed the response of birds (waders and wildfowl) to sources of disturbance on the Fleet. Across three sites the report found that dog-walking was the main activity associated with disturbance. Birds generally responded when people were within 100m, although responses were recorded up to 170m from the source (Liley et al, 2015).
- 5.17 The application boundary is over 1.7km from the Chesil Beach and the Fleet SPA and Ramsar at the closest point. No published research has been found to show that the bird species associated with the SPA/Ramsar will show an alert or behavioural response to visual stimuli at this range. Noise levels associated with both construction and operational activities around the ERF will not be above 50dB at the boundary of the SPA. The changes in traffic flows on the A354 will not result in significant changes in noise levels where the road borders the SPA/Ramsar. No realistic impact pathway relating to noise and visual disturbance for breeding or wintering bird within the SPA/Ramsar has been identified.
- 5.18 There are no species considered to be sensitive to noise and visual disturbance associated with the Isle of Portland to Studland Cliffs SAC, Chesil and the Fleet SAC and Studland to Portland SAC. No realistic impact pathway relating to noise and visual disturbance has been identified for these sites.
- 5.19 Impacts on breeding great crested newts at Crookhill Brick Pit SAC associated with noise and visual disturbance can be screened out due to the distance between the application site and the SAC. No realistic impact pathway relating to noise and visual disturbance has been identified for this site.

Summary: No potential for LSE relating to noise and visual disturbance during construction or operation of ERF on interest features of any of the five NSN sites.

Potential LSE - Loss or disturbance of habitats functionally linked to the Chesil Beach and the Fleet SPA/Ramsar around Portland Harbour during construction or operation of the ERF

- 5.20 The little tern breeding colony is located at the eastern end of the Fleet. Little tern are almost exclusively coastal feeders, foraging on open shores, coastal lagoons and the outer parts of estuaries. Breeding little tern typically forage within 5km of the breeding colony (Cabot and Nisbet, 2013). The shallow waters around the shores of Portland Harbour may be used by foraging birds.
- 5.21 The waters of the harbour will not be directly impacted by the construction works and foraging birds will be habituated to ship movements, activity around the port and on-board ships and waterborne recreational activities within Portland Harbour. The

construction and operation of the ERF are considered unlikely to impact on foraging little tern as there is no habitat directly or indirectly impacted by the proposals that would be preferentially selected by foraging little tern within Portland Harbour. Foraging areas used by terns vary temporarily and spatially as prey species respond to a wide range of influences such as water temperature, tide state, water depth, substrate and predator abundance.

- 5.22 Wintering wigeon feed on plant material, obtained by grazing on land or from the water surface or very shallow water (Snow and Perrins, 1998). The waters of Portland Harbour are too deep to be used by foraging wigeon. The shallow waters of the Fleet provide ideal foraging habitat for this species. The construction and operation of the ERF are considered unlikely to impact on foraging wigeon as there is no habitat directly or indirectly impacted by the proposals that would be preferentially selected by feeding wigeon within Portland Harbour.
- 5.23 Breeding common tern and ringed plover are identified as interest features of Chesil Beach and the Fleet Ramsar. The breeding common tern may forage within Portland Harbour, as this species is an opportunistic feeder that uses a wide range of habitats, including lagoons, brackish water, freshwater and the open sea. During the breeding season the majority of breeding terns forage within a few kilometres of the breeding colony, generally feeding in water less than 5 metres deep (Cabot and Nisbet, 2013).
- 5.24 Ringed plover breed on sandy or stony coastal habitats, nesting close to water and feeding on terrestrial and coastal invertebrates (Snow and Perrins, 1998). The habitats around the application site do not offer suitable foraging habitat for breeding ringed plover.
- 5.25 Wintering teal, mallard, pintail, shoveler, tufted duck, pochard and goldeneye, along with the resident mute swan population, are identified as interest features of Chesil Beach and the Fleet Ramsar.
- 5.26 Teal feed primarily on seeds during the winter obtained by filter feeding on mud or water or upending in shallow water. Although present on estuaries and saltmarshes during the winter, this species does not winter on open coastal waters. Pintail winter on sheltered coastal waters, particularly estuaries and lagoons, feeding in waters between 10 and 30cm deep. Mallard is an opportunistic feeder found in a wide range of habitats, including shallow coastal waters, generally avoiding water depths of more than a few metres for resting and foraging in water of less than 1m depth. Due to a specialised feeding strategy, shoveler typically avoid marine waters (all Snow and Perrins, 1998). The shallow, sheltered waters of the Fleet provide ideal foraging habitat for all these species.
- 5.27 The Fleet provides ideal foraging habitat for all the dabbling duck species discussed in paragraph 5.26. The maximum water depth of Portland Harbour is 16 metres below chart datum, with an average depth of 12 metres. Towards Chesil Beach water depth is reduced to c4 metres. As such the harbour does not provide extensive areas of suitable foraging habitat for any of these species.
- 5.28 Wintering pochard show a strong preference for fresh water habitats, moving to coastal and inshore maritime habitats during periods of cold weather. Tufted duck tend to winter on lakes, reservoirs and tidal estuaries in western Europe, avoiding exposed marine habitats unless frozen out by hard weather. Goldeneye winter on a wide range of coastal and freshwater habitats in western Europe, feeding by diving to depths of 4 metres (all Snow and Perrins, 1998).

- 5.29 As with dabbling ducks, the Fleet provides favourable foraging habitat for the diving species discussed in paragraph 5.28. The deep waters of Portland Harbour do not provide suitable foraging habitat that would be regularly used by any of these species.
- 5.30 Resident mute swan occur in a wide range of habitats including rivers, fresh water bodies, estuaries and coastal lagoons. Food (mainly aquatic vegetation) is obtained by upending in shallow water (less than 1m deep), or grazing and dabbling in terrestrial habitats (Snow and Perrins, 1998). The main herd associated with this site is centred on the swannery at Abbotsbury. The deep waters of Portland Harbour do not provide suitable foraging habitat that would be regularly used by mute swans.
- 5.31 There are no habitats within the application boundary that are considered functionally linked to any of the interest features of the Isle of Portland to Studland Cliffs SAC, Chesil and the Fleet SAC, Studland to Portland SAC or Crookhill Brick Pit SAC. The development is proposed within an operational port on previously developed land. No realistic impact pathway relating to the loss of functionally linked land has been identified for these sites.

Summary: No potential for LSE relating to loss or disturbance of habitats functionally linked to the Chesil Beach and the Fleet SPA/Ramsar around Portland Harbour during construction or operation of ERF. No impact pathways identified for remaining four sites.

Potential LSE - Emissions from the ERF during operation

Key pollutants

- 5.32 As part of the design process Fichtner was commissioned to undertake an Air Quality Assessment (AQA) to evaluate the changes increasing stack height had on the deposition of various pollutants on the NSN sites. The assessment undertaken by Fichtner covered a range of pollutants that are known to have impacts on ecosystems above certain levels. The APIS website was consulted to determine the appropriate critical loads and levels for use in the assessment of likely significant effect. Fichtner used this information when undertaking the modelling work. The list of pollutants assessed and the critical levels used for the assessment are set out in table 1.

Pollutant	Critical level (µg/m³)	Measured as
Nitrogen oxides (NO _x) (as nitrogen dioxide (NO ₂))	75	Daily mean
	30	Annual mean
Sulphur dioxide (SO ₂)	10	Annual mean for sensitive lichen communities and bryophytes and ecosystems where lichens and bryophytes are an important part of the ecosystem's integrity
	20	Annual mean for all higher plants
Hydrogen fluoride	5	Daily mean
	0.5	Weekly mean
Ammonia (NH ₃)	1	Annual mean for sensitive lichen communities and bryophytes and ecosystems where lichens and bryophytes are an important part of the ecosystem's integrity
	3	Annual mean for all higher plants

Table 1: Pollutants and relevant critical levels used for the ecological assessment.

- 5.33 In June 2019, the IAQM released the guidance document *A guide to the assessment of air quality impacts on designated nature conservation sites*. This was updated in May

2020 (the IAQM (2020) guidance). This guidance explains that the daily mean critical level of 75 µg/m³ is appropriate where SO₂ and O₃ are at or above their critical level, which is not the case in the UK. The IAQM consider it most appropriate to use 200 µg/m³ as the short term critical level.

Other pollutants

- 5.34 Table 13 of ES Technical Appendix D1: Air Quality Baseline Analysis (September 2020) produced by Fichtner lists background levels for carbon monoxide, benzene, 1,3-butadiene, hydrogen chloride, mercury, cadmium, arsenic, antimony, chromium, cobalt, copper, lead, manganese, nickel, vanadium, dioxins and furans, dioxin-like PCBs and PAHs.
- 5.35 This information has been reviewed to identify any potential impact pathways on the NSN sites from these pollutants. APIS does not provide any critical levels/loads for the following pollutants: antimony, arsenic, benzene, cadmium, cobalt, copper, lead, manganese, mercury (for terrestrial ecosystems), vanadium and PAHs. No information on potential impacts on ecosystems is available for the following pollutants: carbon monoxide, hydrogen chloride, nickel, dioxins and furans, or 1,3-butadiene.
- 5.36 In most cases there is a lack of data to indicate the level of concentrations of these pollutants above which direct adverse effects on plants and ecosystems may occur according to present knowledge. For critical loads there is a lack of data to allow a quantitative estimate of exposure to one or more pollutants, below which significant harmful effects on specified sensitive elements of the environment do not occur according to present knowledge to be established.
- 5.37 APIS only gives critical loads for two of the additional pollutants identified in paragraph 5.34, chromium and PCBs. Fichtner have calculated the deposition rate of chromium and PCBs using the formula set out by the Environment Agency for the point of maximum deposition within Portland Cliffs to Isle of Studland SAC and Chesil and the Fleet SAC. Table 2 shows the calculations.

	PCBs		Chromium ⁽¹⁾		Chromium ⁽²⁾	
Critical level/load (mg/m ² /day)	0.007		1.5		1.5	
	Deposition rate (mg/m ² /day)	% of critical level/load	Deposition rate (mg/m ² /day)	% of critical level/load	Deposition rate (mg/m ² /day)	% of critical level/load
Isle of Portland	8.02 x 10 ⁻⁹	0.00011%	2.89 x 10 ⁻⁵	0.41%	2.72 x 10 ⁻⁶	0.04%
Chesil Beach	3.38 x 10 ⁻⁹	0.000005%	1.22 x 10 ⁻⁵	0.17%	1.15 x 10 ⁻⁶	0.02%

Table 2: Calculations of deposition rate of chromium and PCBs

- 1. Assumes chromium is emitted at the total metals ELV.
- 2. Assumes chromium is emitted at 30.7% of the total metals ELV, which is the maximum monitored from an existing facility as set out in the Environment Agency’s metals guidance.

- 5.38 The modelling shows that at both SACs the deposition rate of these pollutants is extremely small. Deposition rates at this level can safely be screened out as insignificant. Fichtner have confirmed that, based on the modelling undertaken for chromium that assumes chromium is emitted at the total metals ELV, rates of

deposition for arsenic, antimony, cobalt, copper, lead, manganese, nickel and vanadium would be the same as those modelled for chromium, demonstrating that the contribution would also be extremely small for these substances.

- 5.39 Modelling by Fichtner has shown that emissions of hydrogen fluoride from the ERF will be well below 10% of the critical level (daily and weekly) set for the protection of all habitats (the maximum being 5% of the weekly and 1.9% of the daily mean critical level at the Isle of Portland to Studland Cliffs SAC). There would be no additional hydrogen fluoride contributions from road traffic associated with the proposed development. Hydrogen fluoride contributions from the ERF have been screened out as insignificant.

Methodology

- 5.40 The IAQM (2020) guidance draws on the Environment Agency's (2016) *Air Emissions Risk Assessment for your Environmental Permit*, which states that to screen out impacts as insignificant at NSN and UK statutory designated sites:
- The long-term process contribution (PC) must be less than 1% of the long-term environmental standard (i.e. the critical level or load); and
 - The short-term PC must be less than 10% of the short-term environmental standard
- 5.41 Critical levels and critical loads are the ambient concentrations and deposition fluxes below which significant harmful effects to sensitive ecosystems are unlikely to occur. Critical levels of air pollution and critical loads of pollutants have been identified by the United Nations Economic Commission for Europe (UNECE).
- 5.42 Critical loads are defined as: "*a quantitative estimate of exposure to one or more pollutants below which significant harmful effects on specified sensitive elements of the environment do not occur according to present knowledge*".
- 5.43 Critical levels are defined as "*concentrations of pollutants in the atmosphere above which direct adverse effects on receptors, such as human beings, plants, ecosystems or materials, may occur according to present knowledge*".
- 5.44 It is important to distinguish between the critical load and the critical level. The critical load relates to the quantity of pollutant deposited from air to the ground, whereas the critical level is the gaseous concentration of a pollutant in the air.
- 5.45 The Environment Agency's Operational Instruction 67-12 states that if the PC is less than 1% of the critical level and load then emissions from the application are not significant, and if the predicted environmental contribution (PEC) is less than 70% of the critical level and load it can be concluded 'no likely significant effect' (alone and in-combination).
- 5.46 AQTAG 17 - *Guidance on in combination assessments for aerial emissions from EPR permits* states that "*Where the maximum process contribution (PC) at the European [NSN] site(s) is less than the Stage 2 de-minimis threshold of the relevant critical level or load [i.e. the criteria detailed in paragraph 5.32], the PC is considered to be inconsequential and there is no potential for an alone or in-combination effects with other plans and projects.*"
- 5.47 The AQA modelled a range of stack heights due to the initial work identifying an exceedance of the 1% critical load threshold for nitrogen on part of Chesil and the Fleet SAC. The AQA modelling also identified an exceedance of 1% of the critical level for

ammonia on part of the Isle of Portland to Studland Cliffs SAC. The final stack height (80m) was selected to ensure that the potential impacts of emissions on habitats and species within the NSN sites were minimised as far as practicable.

- 5.48 As noted in section 3 specific measures to reduce the impact on emissions on the NSN sites have been included as part of the project (increasing stack height). Therefore, this project includes mitigation and likely significant effects cannot be screened out, in line with the recent People Over Wind ruling.
- 5.49 Natural England (2018) guidance document *Natural England's approach to advising competent authorities on the assessment of road traffic emissions under the Habitats Regulations* explains that it is widely accepted that imperceptible impacts are those which are less than 1% of the critical level or load, which is considered to be roughly equivalent to 1,000 AADT for cars and 200 AADT for HGVs. This was based on the Design Manual for Roads and Bridges (DMRB) screening tool using Department for Transport data to calculate whether the NO_x output could result in a change of more than 1% of the critical level/load.
- 5.50 Research produced by AQC has highlighted the need to also consider the ammonia released from vehicles when assessing the impact on nitrogen sensitive habitats (*Ammonia Emissions from Roads for Assessing Impacts on Nitrogen-sensitive Habitats*, AQC (2020)). This is especially important for future years as reductions in NO_x emissions have outpaced reductions in ammonia emissions. Both NO_x and ammonia contribute to nitrogen deposition and the positive effect of reduced levels of NO_x in exhaust gases (reducing nitrogen deposition) is offset for ecological receptors by the elevated levels of ammonia.
- 5.51 Natural England has advised the competent authority that air quality modelling should include ammonia emissions from traffic as set out in the AQC report. In line with the advice from Natural England, Fichtner has produced air quality modelling for traffic movements that includes emissions from ammonia.
- 5.52 The potential impact pathways related to changes in air quality associated with the project that could impact on the interest features of the NSN sites are:
- Increases in deposition of nitrogen affecting Annex 1 habitats within the following NSN: Isle of Portland to Studland Cliffs SAC and Chesil and the Fleet SAC
 - Increases in deposition of nitrogen affecting the habitat of early gentian (Isle of Portland to Studland Cliffs SAC) and great crested newt (Crookhill Brick Pit SAC)
 - Increases in nitrogen, NO_x, SO₂ or NH₃ deposition on Studland to Portland SAC
 - Increases in acid deposition affecting Annex 1 habitats within the following NSN: Isle of Portland to Studland Cliffs SAC and Chesil and the Fleet SAC
 - Increases in the critical level of NH₃ affecting lower plants which form part of the species assemblage of certain Annex 1 habitats with the following NSN: Isle of Portland to Studland Cliffs SAC and Chesil and the Fleet SAC
 - Increases in the critical level of NO_x affecting plants which form part of the species assemblage of certain Annex 1 habitats with the following NSN: Isle of Portland to Studland Cliffs SAC and Chesil and the Fleet SAC
 - Increases in deposition of nitrogen affecting habitat used by nesting little tern within the Chesil Beach and the Fleet SPA and Ramsar
 - Increases in deposition of nitrogen affecting habitats used by wintering wigeon within the Chesil Beach and the Fleet SPA and Ramsar

- Increases in the critical level of NO_x affecting habitats used by breeding little tern or wintering wigeon within the Chesil Beach and the Fleet SPA and Ramsar
- Emissions from traffic (vehicles and ships) associated with the development (both during construction and operation) affecting habitats or species within the following NSN: Isle of Portland to Studland Cliffs SAC, Chesil and the Fleet SAC, Chesil Beach and the Fleet SPA and Ramsar and Crookhill Brick Pit SAC

Summary: Potential for LSE relating to changes in air quality during operation on interest features of Chesil Beach and the Fleet SPA and Ramsar, Chesil and the Fleet SAC, Crookhill Brick Pit SAC, Isle of Portland to Studland Cliffs SAC and Studland to Portland SAC. Impacts on the NSN sites from other pollutants (chromium, PCBs and hydrogen fluoride) have been screened out as insignificant.

6.0 Appropriate assessment

- 6.1 Paragraph 2.1 sets out the process of undertaking an appropriate assessment. The role of the appropriate assessment is to consider the implications of the plan or project for the conservation objectives of the NSN sites in question, and to determine whether they will have an adverse effect on the integrity of the site. In carrying out an appropriate assessment, a competent authority must have regard to the manner in which the project is proposed to be carried out, or to any conditions or restrictions subject to which it proposes that the consent, permission or other authorisation should be given.
- 6.2 The integrity of the designated site is defined as the “*coherence of its ecological structure and function, across its whole area, that enables it to sustain the habitat, complex of habitats and/or the levels of populations of the species for which it was designated*” (MHCLG, 2019, *National Planning Practice Guidance: Appropriate Assessment* paragraph 003, reference ID: 65-003-20190722).
- 6.3 Chapter 5 of the Natural England guidance (2018) *Natural England’s approach to advising competent authorities on the assessment of road traffic emissions under the Habitats Regulations* sets out a framework competent authorities should follow when assessing impacts:
- Consider the NSN Site’s Conservation Objectives.
 - Consider background pollution
 - Consider the designated site in its national context
 - Consider the best available evidence on small incremental impacts from nitrogen deposition
 - Consider the spatial scale and duration of the predicted impact and the ecological functionality of the affected area
 - Consider site survey information
 - Consider national, regional and local initiatives or measures which can be relied upon to reduce background levels at the site
 - Consider measures to avoid or reduce the harmful effects of the plan or project on site integrity
 - Consider any likely in-combination effects with other live plans and projects from other sectors
- 6.4 This framework has been followed for each of the air quality impacts identified as requiring further assessment in paragraph 5.52. At the end of the section a table provides a checklist of the steps taken in relation to the Natural England guidance for each NSN site.
- 6.5 The information below looks at the potential impact pathways identified in section 5 in more detail, considering whether the project would have an adverse effect on the integrity of the designated sites. The first part of the assessment looks at the critical levels predicted for the project followed by the critical loads. After the air quality assessment other potential impact pathways are considered.
- 6.6 In line with national guidance, where the PC is below 1% of the relevant critical level or load and the background levels do not exceed the relevant critical load/level threshold set for the protection of vegetation, or lower plants (where relevant), it has been concluded that there will be no adverse effect on the integrity of the designated sites. These critical load and levels are recognised as thresholds below which harmful effects

on sensitive UK habitats will not occur to a significant level according to current scientific understanding.

- 6.7 Road traffic emissions, and those generated by ships in scenarios which have deliveries from both road and sea, have been factored into the modelling work and the impact on the increases in nitrogen oxides, ammonia and nitrogen deposition as a result of the operation of the facility have been assessed in this section. The most conservative assumption of all deliveries by road is used for assessment purposes.
- 6.8 The DMRB considers any receptor within 200m of a road source to be potentially affected by that operation. Natural England (2018) states that it is widely accepted that imperceptible impacts are those which are less than 1% of the critical level or load, which is considered to be roughly equivalent to 1,000 AADT for cars and 200 AADT for HGVs.
- 6.9 The trip generation rate for the proposed development is well below the 1000 AADT for cars and 200 HGV screening threshold, but the routing of traffic is along Main Road and Portland Beach Road which both run adjacent to NSN sites.
- 6.10 However, when combining the impacts from process and traffic emissions there is some exceedance of the relevant critical levels and loads for ammonia, oxides of nitrogen and nitrogen within two NSN sites: Isle of Portland to Studland Cliffs SAC and Chesil Beach and the Fleet SAC. The highest levels of exceedance are found closest to the road edges. The modelling is conservative as it assumes that all deliveries are via road. In reality, it is likely that some deliveries will arrive by sea.
- 6.11 Where the 1% threshold of the relevant critical level/load is exceeded, further assessment of the potential impact on the integrity of the designated sites has been undertaken and the outcome of this assessment set out below. The initial stage of the assessment considers the impact of the project alone. When assessing the impact of the proposed development alone, the contribution from process emissions from the ERF alongside related ship and road traffic emissions have been modelled.

Background levels from APIS

- 6.12 The APIS website includes mapped background concentrations of NO_x and SO₂ on a 1km x 1km spatial resolution and NH₃, nitrogen deposition and acid deposition on a 5km x 5km spatial resolution, which is calculated as a rolling average three-year concentration. This is updated on a periodic basis. The latest update was published in March 2021 and has been updated to the three-year average for 2017 to 2019. The original shadow appropriate assessment used the data available at the time of submission, which was the three-year average from 2016 to 2018. An analysis of the differences has shown that the latest three-year average data is slightly greater than that used in the original shadow appropriate assessment. Therefore, this report uses the most recent available data.
- 6.13 Fichtner have reviewed the current baseline deposition rates and concentrations of pollutants presented on APIS (as of 15 November 2022) and concluded that this has no effect on the dispersion modelling carried out for the project as the baseline concentration is added post modelling. In terms of the effect the more recent data (May 2022) has upon the assumed baseline levels, the NO_x concentration has reduced from:
- 35.3 µg/m³ to 31.3 µg/m³ in the port;
 - 10.2 µg/m³ to 9.7 µg/m³ around the prison;

- 10.3 µg/m³ to 9.9 µg/m³ along the causeway.

6.14 The ammonia has also changed from being a 5km grid average to a 1km grid average. However, across Portland the baseline concentration on APIS has remained at 0.7 µg/m³. Background nitrogen deposition levels at the western end of Chesil and the Fleet SAC have increased by 0.3kg/N/ha/yr (see Table 12).

Isle of Portland to Studland Cliffs SAC – critical levels

6.15 There are two main areas of impact identified from the proposed scheme on the Isle of Portland to Studland Cliffs SAC. The first is the area where concentrations of pollutants emitted from the ERF are highest. This area is around the HMP The Verne (south of the ERF) and is shown on Figures 12 to 19 in Technical Appendix D2 (erratum version). The second area is the area along the Port roads (outside of the Isle of Portland to Studland Cliffs SAC); this area is shown on Figure 2.

6.16 As set out in Section 4 [Baseline], the SAC supports the following Annex I habitat types and Annex II species:

- Annual vegetation of drift line
- Vegetated sea cliffs of the Atlantic and Baltic coasts; and
- Semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*); and
- Early gentian

Assessment of increases in NOx concentrations – all Annex I habitats and Annex II species

6.17 The baseline concentration of NOx for the Isle of Portland to Studland Cliffs SAC, taken from the APIS website is between 5.9 and 35.33 µg/m³, with the background NOx concentration being 10.19 µg/m³ where the process contribution from the ERF is greater than 1% of the critical level.

6.18 The information given on APIS for annual vegetation of drift lines states that this habitat is not sensitive to NOx. NOx levels for vegetated seas cliffs of the Atlantic and Baltic Coasts and semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*) are as for all vegetation types: 30 µg/m³ (annual mean).

6.19 As noted above, the APIS website was updated in March 2021 and it is those background levels that are used in this assessment. Table 3 shows background NOx levels across the Isle of Portland only (background levels across the remainder of the Isle of Portland to Studland Cliffs SAC are not shown) between 2014 and 2019.

Year	Range across Isle of Portland SAC (µg/m ³)	Comments
2014	5.7-10.9	1km ² resolution. Highest levels around Portland Port. Background levels below critical level.
2016	6.9 – 20.3	1km ² resolution. Highest levels around Portland Port. Background levels below critical level.
2017	7.1 – 28.2	1km ² resolution. Highest levels around Portland Port. Background levels below critical level.

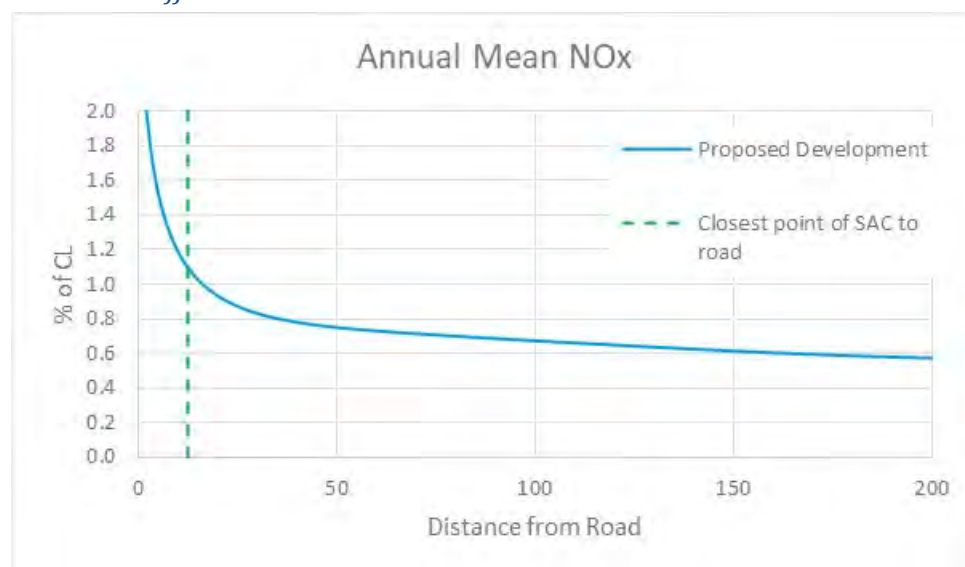
Year	Range across Isle of Portland SAC ($\mu\text{g}/\text{m}^3$)	Comments
2018	5.9 – 35.3	1km ² resolution. Highest levels around Portland Port. Background levels below critical level except for grid square (SY69,74).
2019	5.7- 31.3	1km ² resolution. Highest levels around Portland Port. Background levels below critical level except for grid square (SY69,74).

Table 3: Background NOx levels across the Isle of Portland between 2014 and 2019.

- 6.20 APIS shows high NOx concentrations around Portland Port. Fichtner have reviewed the data on APIS and identified that the concentrations are higher than many other ports in the UK. When looking at the trends on APIS it is important to note that in 2017 there was a step change in the predicted concentrations. This is attributed to a change in the way shipping emissions are accounted for in the model underpinning the APIS data. The recalculation led to a reduction in NOx concentrations at other south coast ports, but a significant increase at Portland. Given the significantly lower number of vessels operating out of Portland compared to other south coast ports this seems unusual.
- 6.21 In terms of whether high concentrations are likely at the SAC, Fichtner carried out dispersion modelling of the emissions from the vessels in the port which would be provided with power from the plant – i.e. those emissions which will be displaced. This clearly shows that there is a significant reduction in impacts with distance from the shipping, and given the meteorological conditions emissions are blown away from the shoreline and the SAC. Therefore, we expect that the 1km x 1km baseline concentrations stated on APIS are too high in the SAC and concentrations would fall off with distance from the port. This drop off with distance from the port is also captured in the APIS dataset, which shows that the grid squares surrounding the port are significantly lower than the grid square containing the main shipping activities in the port.
- 6.22 The air quality modelling of process emissions from the ERF undertaken by Fichtner shows that the maximum annual mean NOx PC from the ERF on the SAC is predicted to be 0.38 $\mu\text{g}/\text{m}^3$, which equates to 1.3% of the critical level for the SAC. The maximum NOx daily (24 hour) mean PC from the ERF is predicted to be 11.47 $\mu\text{g}/\text{m}^3$, which equates to 15.3% of the critical level of 75 $\mu\text{g}/\text{m}^3$ (or 5.7% of the critical level of 200 $\mu\text{g}/\text{m}^3$) for the SAC. The annual mean PC from the ERF combined with the background (the PEC) will be 10.57 $\mu\text{g}/\text{m}^3$, which is below the annual mean critical level of 30 $\mu\text{g}/\text{m}^3$ for the protection of vegetation and ecosystems. The NOx daily (24 hour) PEC is also below the daily mean critical level of 75 $\mu\text{g}/\text{m}^3$ set for the protection of vegetation and ecosystems at 21.66 $\mu\text{g}/\text{m}^3$.
- 6.23 The area of the SAC where the annual mean NOx PC is predicted to exceed 1% of the critical level is 5.19ha. This 1% contour encompasses the upper slopes around HMP The Verne. The area of the SAC where the daily mean NOx PC is predicted to exceed 10% of the 75 $\mu\text{g}/\text{m}^3$ critical level occurs in a similar area of the SAC and covers 5.67ha. Figures 12 and Figure 13 from Fichtner report (Technical Appendix D2: Process Emissions Modelling to the September 2020 ES (erratum version submitted November 2021)) are included in Appendix 5.
- 6.24 Additional dispersion modelling of road traffic exhaust emissions associated with the operation of the proposed development has been carried out to support the second ES Addendum (see appendix 3.4 of the second ES Addendum, erratum version). This

presents the combined impact of process emissions from the ERF and road traffic associated with the proposed development. As shown on figure 23 of appendix 3.4 of the second ES addendum (see below), the total contribution of NOx from the proposed development is less than 1% of the critical level within about 13m of the road.

Figure 23: Annual Mean NOx Proposed Development Only – Isle of Portland to Studland Cliffs



- 6.25 The area where the contribution of NOx (with development road traffic added) exceeds 1% of the critical level is largely outside of the SAC boundary. Figure 2 shows the alignment of the port roads in relation to the SAC boundary. As is clearly demonstrated, the vast majority of the SAC boundary is over 12m from the road edge. The total concentration of NOx from process emissions and road traffic will be at c1% of the relevant critical level at the boundary with the SAC.
- 6.26 The area where the peak impact of process emissions occurs is over 350m from the road (see Figure 12 in Appendix 5 – taken from Technical Appendix D2: Process Emissions Modelling to the September 2020 ES (erratum version submitted November 2021)). Therefore, the additional contribution from road traffic associated with the proposed development in the area where the process contribution is greater than 1% of the critical level would be minimal.
- 6.27 APIS shows that background levels of NOx around the Port already exceed the relevant critical level, although across the wider SAC the background levels of NOx are below 70% of the long-term environmental standard for annual mean NOx. The very localised nature of the high concentrations of NOx around the Port means that concentrations of NOx to the south of the Port across the SAC are likely to be much lower than the grid average suggests.

Concentrations of NOx within the Isle of Portland to Studland Cliffs SAC are predicted to be below the critical level of 30 µg/m³ (annual mean) set for the protection of all vegetation types with the ERF in operation. As such no adverse impacts on the integrity of the site from increased levels of NOx within the Isle of Portland to Studland Cliffs SAC are predicted as a result of combined impact of process emissions and traffic associated with the proposed development.

Assessment of increases in SO₂ concentrations - all Annex I habitats and Annex II species

- 6.28 The critical level for SO₂ for the protection of lichens and bryophytes is 10 µg/m³ (annual mean). The APIS background concentration for SO₂ across the SAC is between 0.4 and 2.28 µg/m³, with the background SO₂ concentration being 0.72 µg/m³ at the point of maximum impact of process emissions from the ERF in the SAC. APIS shows that background levels of SO₂ across the Isle of Portland have been well below the critical level of 10 µg/m³ since 2014. The highest concentrations of SO₂ during that period have been in the grid square that includes the Port (SY69,74). The current concentration for this grid square is 2.2 µg/m³ (2018-2020).
- 6.29 The air quality modelling of process emissions from the ERF undertaken by Fichtner shows that the annual mean SO₂ PC is 0.09 µg/m³, 0.9% of the critical level for the SAC. The annual mean PC for SO₂ combined with the background level is well below the annual mean critical level of 10 µg/m³ (8.1% of the critical level) for the protection of lichens and bryophytes with the ERF in operation (see Figure 14 from Technical Appendix D2: Process Emissions Modelling to the September 2020 ES (erratum version submitted November 2021)). Road vehicle exhaust emissions are not a significant source of SO₂; as such, the impact of SO₂ will purely be driven by emissions from the ERF. Figure 14 is included in Appendix 5.
- 6.30 The information given on APIS for annual vegetation of drift lines states that this habitat is not sensitive to SO₂. The information given on APIS for vegetated seas cliffs of the Atlantic and Baltic Coasts recommends that site specific advice is sought for SO₂, setting a critical level of 10-20 µg/m³ (set for all vegetation). The assessment of impacts on this site uses the lower end of this range.
- 6.31 The air quality modelling of process emissions from the ERF undertaken by Fichtner show that the annual mean PC for SO₂ combined with the background level is well below the annual mean critical level of 10 µg/m³ (8.1% of the lower end of the critical level set for the protection of lichens and bryophytes) with the ERF in operation (see Figure 14 in Appendix 5 taken from Technical Appendix D2: Process Emissions Modelling to the September 2020 ES (erratum version submitted November 2021)).

Concentrations of SO₂ within the Isle of Portland to Studland Cliffs SAC are predicted to be below the critical level of 10 µg/m³ (annual mean) set for the protection of lichens and bryophytes with the ERF in operation. The critical level for SO₂ used in this assessment is the critical level set through APIS for sites with lower plant interest; the critical level set for the protection of all vegetation is 10-20 µg/m³. As the lower end of the critical level is not exceeded it is concluded there would be no effect on any of the Annex I habitats or populations of early gentian. As such no adverse impacts on the integrity of the site from increased levels of SO₂ within the Isle of Portland to Studland Cliffs SAC are predicted as a result of the development.

Assessment of increases in NH₃ concentrations - Semi-natural dry grassland and scrubland facies on calcareous substrates (Festuco-Brometalia) and Annex II species

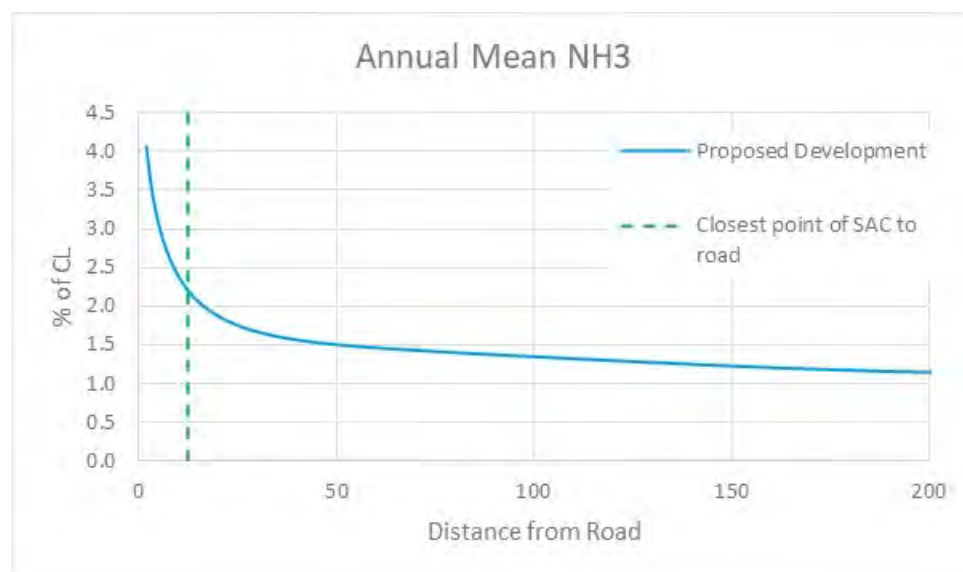
- 6.32 The critical level for NH₃ set for the protection of lichens and bryophytes is 1 µg/m³ (annual mean). The APIS background concentration for NH₃ across the entire Isle of Portland to Studland Cliffs SAC is between 0.51 and 2.24 µg/m³. Table 4 shows background ammonia levels given on APIS 2009-2019 for the Isle of Portland only (the remainder of the Isle of Portland to Studland Cliffs SAC is excluded).

Year	Range across Isle of Portland SAC ($\mu\text{g}/\text{m}^3$)	Comments
2009-2014	Below $1\mu\text{g}/\text{m}^3$	5km ² resolution. Background levels below critical level set for protection of lower plants
2016	0.4 – 0.7	5km ² resolution. Background levels below critical level. Background level $0.7\mu\text{g}/\text{m}^3$ around Port
2017	0.4-1.6	5km ² resolution. Highest levels in 5km grid square west of the Grove. Background level $0.7\mu\text{g}/\text{m}^3$ around Port
2018	0.5-1.2	5km ² resolution. Highest levels in 5km grid square west of the Grove. Background level $0.7\mu\text{g}/\text{m}^3$ around Port
2019	0.7 across entire Isle of Portland.	1km ² resolution. No background data provided for a number of grid squares containing part of SAC including grid square around Port (SY69,74).

Table 4: Background ammonia levels across the Isle of Portland 2009-2019

- 6.33 The background concentration used is $0.71\mu\text{g}/\text{m}^3$ where the process contribution from the ERF is greater than 1% of the critical level. The air quality modelling of process emissions from the ERF undertaken by Fichtner shows that the maximum annual mean NH_3 PC from the ERF across the SAC is $0.025\mu\text{g}/\text{m}^3$, 2.5% of the critical level for the SAC. The annual mean PC for NH_3 at the point of maximum impact combined with the background level is below the annual mean critical level of $1\mu\text{g}/\text{m}^3$ (being 73.5% of the critical level) set for the protection of lichens and bryophytes. The area of impact is shown in Figure 15 (labelled Figure 14) included in Appendix (taken from Technical Appendix D2: Process Emissions Modelling to the September 2020 ES (erratum version submitted November 2021)).
- 6.34 The area affected by the increase in the critical level of ammonia covers 38.44ha of the SAC. The equates to c2.6% of the total SAC area (1447.5ha). The Magic website classifies the areas within this zone as maritime cliffs and slopes (the Annex I habitat vegetated sea cliffs of the Atlantic and Baltic Coasts) or calcareous grassland (the Annex I habitat semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*)). The calcareous grassland has the potential to support the Annex II species early gentian. The supplementary advice to the conservation objectives identifies the lichen and bryophyte community as typical species of the calcareous grassland communities. The critical levels for NH_3 used in this assessment is that set through APIS for sites with lower plant interest; ammonia levels will therefore be lower than that set for higher plants so there would be no effect on any populations of early gentian.
- 6.35 As discussed above, additional dispersion modelling of road traffic exhaust emissions associated with the operation of the proposed development is provided in appendix 3.4 of the second ES addendum (erratum version). This presents the combined impact of process emissions from the ERF and road traffic associated with the proposed development. Figure 26 below shows that ammonia emissions from the proposed development will exceed 1% of the critical level for the whole 200m transect (taken from Technical Appendix D2: Process Emissions Modelling to the September 2020 ES (erratum version submitted November 2021)). The area with the peak impact of process emissions occurs over 350m from the road. Therefore, the additional contribution from road traffic associated with the proposed development at the point of maximum impact from process emissions from the ERF would be minimal.

Figure 26: Annual Mean Ammonia Proposed Development Only – Isle of Portland to Studland Cliffs



Note: Impacts presented as % of critical level of $1 \mu\text{g}/\text{m}^3$

- 6.36 Where the PC from the ERF is greater than 1% of the critical level for lichen sensitive communities (close to Castle Road where there is an additional contribution from road traffic), the Magic website classifies the areas within this zone as maritime cliffs and slopes (the Annex I habitat vegetated sea cliffs of the Atlantic and Baltic Coasts) rather than calcareous grassland.
- 6.37 Where the PC from the ERF is greater than 1% of the critical level for lichen sensitive communities away from the road near to HMP The Verne, there would not be a significant additional contribution from road traffic as this is over 200m from the roads (see Figure 15 (labelled Figure 14) in Appendix 5 taken from Technical Appendix D2: Process Emissions Modelling to the September 2020 ES (erratum version submitted November 2021)).
- 6.38 Although the mean annual PC exceeds 1% of the critical level threshold for NH_3 around HMP The Verne and the NH_3 emissions from traffic exceed 1% up to 200m from the road, as shown on figure 26 of appendix 3.4 of the second ES addendum (included above), the overall PEC within the site would remain below the long-term critical level with the ERF in operation.

Concentrations of NH_3 within the Isle of Portland to Studland Cliffs SAC are predicted to be below the critical level of $1 \mu\text{g}/\text{m}^3$ (annual mean) set for the protection of lower plants with the ERF in operation. As such no adverse impacts on the integrity of the site from increased levels of NH_3 within the Isle of Portland to Studland Cliffs SAC are predicted on the Annex I habitat semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia* or populations of early gentian as a result of operation of the proposed development.

Assessment of increases in NH_3 concentrations – other Annex I habitats

- 6.39 The information given on APIS for annual vegetation of drift lines states that this habitat is not sensitive to NH_3 . Therefore, no adverse impacts on the integrity of this Annex I

habitat are predicted as a result of the operation of the proposed development, because this habitat is not considered to be sensitive to changes in air quality.

- 6.40 The information given on APIS for vegetated seas cliffs of the Atlantic and Baltic Coasts recommends site specific advice should be sought. The lowest critical level set for the protection of lichens and bryophytes has been set for this site.

This assessment has concluded that there would be no adverse impact on the integrity of the site for all pollutants based on the most stringent critical levels for NH₃ (see paragraphs 6.32-6.38). APIS identifies semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*) as the most sensitive habitat within the SAC. It follows therefore that a conclusion of no adverse impacts on the integrity of the most sensitive habitat will allow the same conclusion to be reached for areas of vegetated seas cliffs of the Atlantic and Baltic Coasts within the Isle of Portland to Studland Cliffs SAC.

Isle of Portland to Studland Cliffs SAC – critical loads

- 6.41 The APIS website only provides critical loads for the Annex I habitat semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*) and early gentian. The critical load given for both is 15-25kg/N/ha/yr. Although APIS identifies the Annex I habitat vegetated sea cliffs of the Atlantic and Baltic Coasts as being sensitive to nitrogen, no specific critical load has been set. The Annex I habitat annual vegetation of drift lines is not considered to be sensitive to nitrogen.
- 6.42 Across the entire SAC the rate of nitrogen deposition stated on APIS varies between 7.5 and 17.6kg/N/ha/yr. The area of highest nitrogen deposition occurs on the stretch of coast between Ringstead Bay and Durdle Door, beyond the predicted zone of impact for this facility. Apart from along the coast east of Weymouth, the baseline rate of nitrogen deposition does not exceed the lower limit of the critical loads given for any of the interest features of the SAC. At the point of maximum impact of process emissions from the ERF within the SAC the background level for calcareous grassland is 8.48kg/N/ha/yr.
- 6.43 Table 5 shows background rates of nitrogen deposition given on APIS 2009-2019 for the Isle of Portland only.

Year	Range across Isle of Portland SAC (kg/N/ha/yr)	Comments
2005-2014	3.1-7.8	5km ² resolution. Background deposition rate below lower end of critical load range.
2016	6-6.9	5km ² resolution. Background deposition rate below lower end of critical load range.
2017	6.7-6.9	5km ² resolution. Background deposition rate below lower end of critical load range.
2018	6.7	5km ² resolution. Background deposition rate below lower end of critical load range.
2019	6.4-7.6	1km ² resolution. No background data provided for a number of grid squares containing part of SAC including grid square around Port (SY69,74). Background deposition rate below lower end of critical load range.

Table 5: Background nitrogen deposition across the Isle of Portland 2009-2019

Assessment of increases in nitrogen deposition - all Annex I habitats and Annex II species

- 6.44 The air quality modelling of process emissions from the ERF undertaken by Fichtner (Technical Appendix D2: Process Emissions Modelling to the September 2020 ES (erratum version submitted November 2021)) shows a maximum rate of nitrogen deposition (PC) within the SAC of 0.169kg/N/ha/yr. This represents 1.1% of the lower end of the critical load given for all habitats and species within the SAC. The background level of nitrogen deposition in the area of the SAC closest to the proposed development is 8.48kg/N/ha/yr. The area of the SAC falling within the 1% contour totals 13.13ha, covering the upper slopes around HMP The Verne (see Figure 18 in Appendix 5 taken from Technical Appendix D2: Process Emissions Modelling to the September 2020 ES (erratum version submitted November 2021)).
- 6.45 The predicted contribution of nitrogen to the Annex I habitats within the SAC is above 1% of the lower end of the critical load for semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*) and early gentian. The zone of impact covers parts of SSSI units 33, 34, 51 and 52 (see Figure 18 in Appendix 5 taken from Technical Appendix D2: Process Emissions Modelling to the September 2020 ES (erratum version submitted November 2021)).
- 6.46 Nitrogen deposition associated with traffic linked to the development would be approximately 1% of the lower end of the critical load range at c12m from road edge (see Figure 32 of Appendix 3.4 of the second ES Addendum, erratum version). Nitrogen deposition from emissions from traffic and ERF added to the background levels would still be well below the lower end of the critical load range given for semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*) and early gentian.
- 6.47 The Magic website classifies the area within SSSI unit 33 as the maritime cliffs and slopes, attributable to the Annex I habitat vegetated sea cliffs of the Atlantic and Baltic Coasts with small areas of woodland. The habitat vegetated sea cliffs of the Atlantic and Baltic Coasts is found around the whole of the coastline of the Isle of Portland. The majority of SSSI units 34, 51 and 52 are classified as lowland calcareous grassland (semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*)) with small areas of maritime cliffs and slopes habitat.
- 6.48 It is considered likely that areas of unit 33 have previously supported more extensive areas of calcareous grassland (small areas of CG3 grassland are still present) and that lack of management has probably contributed to a reduction in the area of grassland through scrub encroachment. An unpublished study by DERC (Edwards, 2016) demonstrates that in the 1950's much of Unit 33 was scattered scrub or open habitat, by 1972 much of the eastern half of the unit had developed into dense scrub and by 1997 the whole unit was classified as dense scrub. Photos 4 and 5 show the extent of scrub cover across the unit.
- 6.49 Natural England has confirmed that scrub encroachment is a threat to the mosaic of grassland and scrub habitats present along the Weares and undercliffs. For Unit 33 to achieve favourable conservation status, Natural England has confirmed the unit would be a mosaic of calcareous grassland (preferably grazed) and maritime scrub communities. The 2016 DERC report recommended clearance of sycamore trees and saplings in Unit 33 to create glades to provide edge habitat. It also recommended clearance of cotoneaster (*C simonsii*) from the steep slope below HMP The Verne.

- 6.50 A precautionary approach to the assessment has been adopted, as the Annex I habitat semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*) is present within unit 33 and restoration of a grassland/scrub mosaic is a management objective. The assessment uses the critical load for semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*) and the assessment criteria that deposition levels should not be at a level that would prevent this habitat re-establishing in the future should management regimes change. This would be consistent with a ‘restore’ objective within the conservation objectives for the site; a ‘maintain’ objective would apply to areas of existing calcareous grassland.
- 6.51 Unit 33 is currently considered to be in unfavourable declining condition due to a lack of grazing and insufficient scrub control. The nitrogen additions associated with the proposal alone, combined with background levels, will be below the lower end of the critical loads given for the Annex I habitat semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*). The proposed development is not considered to affect the ability to achieve favourable conservation status for this part of the SAC (Unit 33). The key element to restoring this area to favourable conservation status relates to scrub clearance and control and the implementation of a suitable grazing regime.
- 6.52 The level of nitrogen deposition from the proposed development and background sources (PEC) is below the lower end of the critical load identified as being the threshold where impacts on the Annex I habitat are predicted to occur based on current ecological understanding. This would mean that, were unit 33 of the SSSI managed to restore the area to favourable condition by removing scrub and introducing grazing, the deposition of nitrogen would not prevent the Annex I habitat (semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*)) from achieving favourable conservation status.
- 6.53 The supplementary advice for the conservation objectives notes that the critical loads for the Annex I habitat semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*) are currently within acceptable limits, although there are concerns about impacts of future increases in deposition levels on the feature. The supplementary advice for the conservation objectives covering early gentian highlight that the supporting habitat for this species (calcareous grassland) is sensitive to changes in air quality.
- 6.54 As the PEC will be below 70% of the long-term environmental standard for the Annex I habitat semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*) with the ERF operational and traffic, no adverse impacts on the integrity of the site from increased nitrogen deposition within the Isle of Portland to Studland Cliffs SAC are predicted as a result of the proposed development.
- 6.55 The APIS website states that the Annex I habitat annual vegetation of drift lines is not sensitive to eutrophication but no critical load for this habitat is given. The very small increases in nitrogen deposition modelled to occur as a result of the proposed ERF would only occur along a very short length of the coast where this habitat may form. Given this Annex I habitat is not considered to be sensitive to nitrogen deposition, no adverse impacts resulting from increased nitrogen deposition on this habitat are predicted as a result of the development.
- 6.56 The APIS website states that the Annex I habitat vegetated sea cliffs of the Atlantic and Baltic Coasts is sensitive to nitrogen; however, no critical load for this habitat is given.

There is a note on the APIS website stating that this habitat covers a wide range of habitat types from wetlands to woodland.

- 6.57 The reports reviewed as part of this assessment indicate that much of this habitat has established as a result of scrub invasion of calcareous grassland in Unit 33. Therefore, the same critical load has been used this habitat as for semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*). This would ensure future restoration of a grassland/scrub mosaic were possible. No adverse impacts on the integrity of the site from increased nitrogen deposition within the Isle of Portland to Studland Cliffs SAC are predicted as a result of the development.

Deposition rates of nitrogen within the Isle of Portland to Studland Cliffs SAC are predicted to be below the lower end of the critical load range set for the protection of the Annex I habitat semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*) and early gentian. No adverse impacts on the integrity of the site from increased nitrogen deposition within the Isle of Portland to Studland Cliffs SAC are predicted as a result of the development.

Assessment of increases in acid deposition - all Annex I habitats and Annex II species

- 6.58 The highest predicted contribution of acid deposition to the Annex I habitats within the SAC is 1.0% of the critical load function for semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*). However, when the background is included, the PEC will be well below 70% of the long-term critical load for this Annex I habitat (3.8%) with the ERF operational and traffic, no adverse impacts on are predicted as a result of the development.

Rates of acid deposition within the Isle of Portland to Studland Cliffs SAC are predicted to be below 70% of the log-term critical load range set for the protection of the Annex I habitat semi-natural dry grassland and scrubland facies on calcareous substrates (*Festuco-Brometalia*). No adverse impacts on the integrity of the site from acid deposition within the Isle of Portland to Studland Cliffs SAC are predicted as a result of the development.

Summary of impacts on the Isle of Portland to Studland Cliffs SAC

- 6.59 Table 6 sets out a summary of the assessment of impacts on the Isle of Portland to Studland Cliffs SAC.

Assessment steps	Commentary	Reference
Consideration of conservation objectives	The conservation objectives of maintaining or restoring the structure and function (including typical species) of qualifying natural habitats and structure and function of the habitats of qualifying species as considered most relevant to the assessment of impacts of changes in air quality.	See paragraphs 4.32 and 4.33
Consideration of background levels	Background concentrations of SO ₂ and NH ₃ are below relevant critical levels set for the protection of higher and lower plants across the Isle of Portland to Studland Cliffs SAC. NO _x critical levels are below relevant critical level for majority of SAC on Isle of Portland, except for a single 1km grid square (SY69,74). Background levels of nitrogen deposition are below lower end of critical load range given for Annex I habitats and Annex II species	NO _x : Table 3 and paragraphs 6.17-6.21 SO ₂ : See paragraph 6.28 NH ₃ : Table 4 and paragraphs 6.32 and 6.39-6.40 N dep: Table 5 and paragraphs 6.41-6.43.

Assessment steps	Commentary	Reference
Consider the designated site in national context	Not considered necessary for this assessment.	N/A
Consider the best available evidence on small incremental impacts from nitrogen deposition	Background levels of nitrogen deposition will remain below lower end of critical load. Further assessment is not required.	N/A
Consider the spatial scale and duration of the predicted impact and the ecological functionality of the affected area	A review by air quality specialists has shown critical levels for NOx for grid square including Port are unlikely to be representative of levels within the SAC. Impacts of traffic in-combination with NOx and NH ₃ from ERF have been assessed.	NOx: Paragraphs 6.22-6.27 SO ₂ : Paragraph 6.29-6.31 NH ₃ : Paragraphs 6.33-6.38 N dep: Paragraphs 6.44-6.57.
Consider site survey information	Recent survey reports were reviewed to determine the extent of Annex I habitats within impacted areas. Noted that Unit 33 of the SSSI has a conservation objective of creating scrub/grassland mosaic.	See paragraphs 6.47-6.49
Consider national, regional and local initiatives or measures which can be relied upon to reduce background levels at the site	No national, regional or local initiatives are currently in place that could be relied upon to reduce background levels across the site.	N/A
Consider measures to avoid or reduce the harmful effects of the plan or project on site integrity	No measures considered necessary due to conclusion of no adverse effect on site integrity.	N/A
Consider any likely in-combination effects with other live plans and projects from other sectors	See Section 7	See section 7

Table 6: Summary of impacts on the Isle of Portland to Studland Cliffs SAC

Chesil and the Fleet SAC

6.60 As set out in Section 4 (Baseline), the SAC supports the following Annex I habitat types:

- Annual vegetation of drift lines;

- Perennial vegetation of stony banks;
- Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*);
- Coastal lagoons; and
- Mediterranean and thermo-Atlantic halophilous scrubs.

6.61 There are two key areas of impact that are considered in this section of the assessment. The Natural England Guidance (2018) explains that the zone within 200m of the highway is where there is a credible risk that impacts from road traffic emissions may occur. A zone of impact, extending 200m either side of the A354, has been used for this assessment where impacts from road traffic emission have been identified (Figures 3 and 4 show the extent of road corridor used in the assessment). There is also a zone within the road corridor where emissions from the ERF overlap with the road corridor. As shown in Figures 12-19 of ES Technical Appendix D2, the area where significant overlap occurs is south of Hamm Beach Road roundabout on the A354 (Grid reference for roundabout: SY6754,7464).

Site Background

6.62 The Chesil Beach and the Fleet SAC covers a total of 1634.91ha. The Natura 2000 - Standard Data form gives the extent of Annex I habitats within the SAC as follows:

- 1150: Coastal lagoons: 490.47ha
- 1210: Annual vegetation of drift lines: 14.71ha
- 1210: Annual vegetation of drift lines: 14.71ha
- 1220: Perennial vegetation of stony banks: 81.75ha
- 1330: Atlantic salt meadows: 16.35ha
- 1420: Mediterranean and thermo-Atlantic halophilous scrubs: 4.9ha

6.63 Detailed mapping of the extent of the Annex I habitats present within 200m of the A354 is presented in Figure 3 and 4. Table 7 gives a breakdown of the extent of Annex I habitats within 200m of the A354 and details of the percentage of that Annex I habitat that occurs within this zone. It should be noted that Annex I habitat 1210 (Annual vegetation of drift lines) does not occur within 200m of the A354 and is not sensitive to changes in air quality and therefore is not included in Table 7 below.

Annex I habitat	Extent across whole site at time of designation	Area of Annex I habitat (updated figures)	Extent of Annex I habitat within 200m of A354	% of Annex I habitat within 200m of A354
Coastal lagoon	490.47ha	N/A	6.81ha (source: Magic website)	1.39%
Perennial vegetation of stony banks	81.75ha	58.5ha (source Footprint Ecology 2018) 95.8ha (Groome and Crowther, 2005)	10.41ha (NVC communities: SD1, MC5, MC8, MC9, MC11 (SD1/MC5/MC8	10.87-17.79% (Exact % depends on which survey is used - see cell to left)
Atlantic salt meadows	16.35ha	0.7ha (source Footprint Ecology 2018)	0.28ha (NVC communities – SM14 and SM16)	1.7% (Original site extent used as baseline as

Annex I habitat	Extent across whole site at time of designation	Area of Annex I habitat (updated figures)	Extent of Annex I habitat within 200m of A354	% of Annex I habitat within 200m of A354
				Footprint Ecology survey does not cover full extent of SAC)
Mediterranean and thermo-Atlantic halophilous scrubs	4.9ha	8.3ha (source Footprint Ecology 2018)	0.53ha (NVC community – SM25)	6.38% (Footprint Ecology data used to calculate %)

Table 7: Annex I habitat within 200m of the A354

Assessment of increases in NOx concentrations – all Annex I habitats

6.64 The APIS background NOx concentration for the SAC is between 4.68 and 19.17 $\mu\text{g}/\text{m}^3$, with the background NOx concentration being 10.36 $\mu\text{g}/\text{m}^3$ where the process contribution from the ERF is greater than 1% of the critical level. The critical level for all vegetation types is 30 $\mu\text{g}/\text{m}^3$ (annual mean). Table 8 shows the concentrations of NOx recorded across Chesil and the Fleet SAC from 2014 to 2019. This background information is reproduced from data available on APIS.

Year	Range across SAC ($\mu\text{g}/\text{m}^3$)	Comments	Range along A354 ($\mu\text{g}/\text{m}^3$)
2014	5.3-9.5	1km ² resolution. Highest levels around Portland Harbour, lowest around Burton Bradstock.	6.6 – 9.5
2018	4.7 – 19.2	1km ² resolution. Highest levels around Portland Harbour, lowest between Burton Bradstock and West Bexington.	7.6 – 19.2
2019	4.7- 12.1	1km ² resolution. Highest levels around Portland Harbour, lowest around Burton Bradstock.	7.6 – 12.1

Table 8: Background NOx concentrations across the SAC

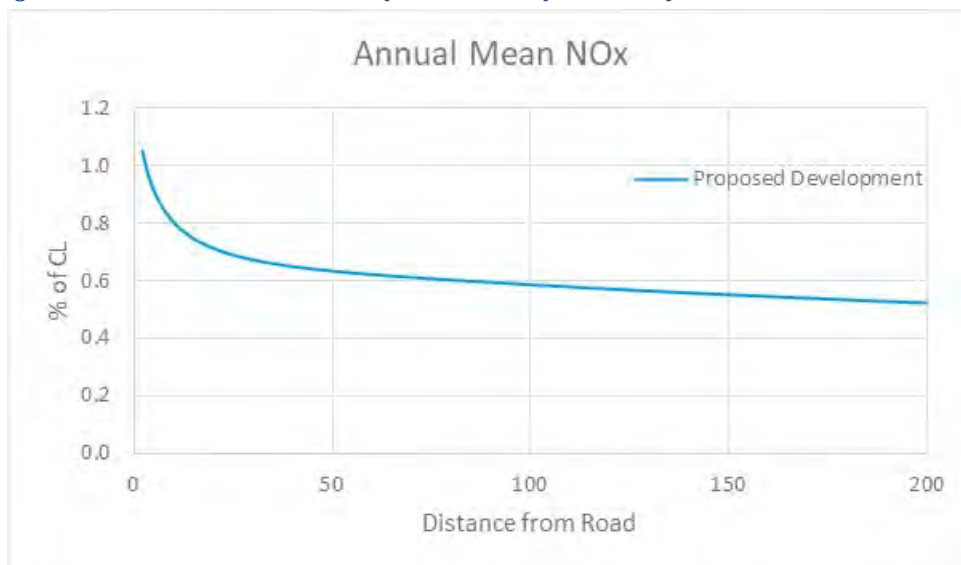
6.65 Table 8 sets out the background levels of NOx across the Chesil and the Fleet SAC between 2014 and 2019. The data from APIS shows that between 2014 and 2019 the concentrations of NOx across the SAC have been below the critical level set for the protection of vegetation over the last five years. As would be expected the highest concentrations within the SAC are found along the A354 and the grid squares closest to the Port, where emissions from transport are most concentrated.

6.66 The air quality modelling of process emissions from the ERF undertaken by Fichtner (see Figure 15 in Technical Appendix D2: Process Emissions Modelling to the September 2020 ES (erratum version submitted November 2021)) shows that the maximum annual mean NOx PC from the ERF is predicted to be 0.16 $\mu\text{g}/\text{m}^3$, which

equates to 0.5% of the critical level for the SAC. The maximum NOx daily (24 hour) mean PC from the ERF is predicted to be 4.02 µg/m³ (which equates to 5.4% of the critical level of 75 µg/m³ or 2.0% of the critical level of 200 µg/m³) for the SAC. The annual mean PC from the ERF combined with the background (the PEC) will be 10.52 µg/m³, which is below the annual mean critical level of 30 µg/m³ for the protection of vegetation and ecosystems. The NOx daily (24 hour) PEC is also below the daily mean critical level set for the protection of vegetation and ecosystems. Figure 15 taken from Technical Appendix D2: Process Emissions Modelling to the September 2020 ES (erratum version submitted November 2021) is included in Appendix 5.

- 6.67 As the maximum annual and daily mean PC is below 1% and 10% of the relevant critical levels for NOx, the impact can be screened out as insignificant and no adverse impacts on the integrity of the site from increased levels of NOx within Chesil and the Fleet SAC are predicted as a result of the emissions from the ERF.
- 6.68 The additional dispersion modelling of road traffic exhaust emissions associated with the operation of the proposed development in appendix 3.4 of the second ES addendum (erratum version) presents the combined impact of process emissions from the ERF and road traffic associated with the proposed development.
- 6.69 Baseline concentrations of NOx available via APIS are shown as a gridded average. The contribution from road traffic is averaged across the grid so for Chesil and the Fleet SAC the spatial distribution of emissions close to road (elevated concentrations close to road edge compared to areas further away from the road) is not captured in the APIS data. The more detailed dispersion modelling of road traffic ensures that elevated levels of NOx close to road site are accurately reflected.
- 6.70 The air quality modelling shows that alone the impact of the development (traffic and emissions from the plant) is negligible, with NOx critical levels only exceeding 1% of the relevant critical level within 3m of the edge of the carriageway (A354 Portland Beach Road). See Figure 8 below (taken from appendix 3.4 of the second ES addendum (erratum version)).

Figure 8: Annual Mean NOx Proposed Development Only – Chesil Beach



Note: Impacts presented as % of critical level of 30 µg/m³

- 6.71 A footpath runs along the length of the western side of Portland Beach Road. The footpath is over 2m wide (see photo 1 in Appendix 3). The area where NO_x contributions exceed 1% of the critical level on the western side of the road is not within the SAC. On the eastern side the area affected is outside the SAC (falling within the zone between Osprey Quay and the road edge). The affected area is shown in Figure 19 (taken from Technical Appendix D2: Process Emissions Modelling to the September 2020 ES (erratum version submitted November 2021)) in Appendix 5.
- 6.72 Areas of affected Annex I habitat occur around the two roundabouts on the A354 (see figures 3 and 4). At the northern end (Hamm Beach Road roundabout – SY6754,7464) the 0.0004ha of MC5 grassland and 0.004ha of SD1 mixed *Sonchus* community fall within the 1% contour. Photo 1 shows the SD1 mixed *Sonchus* community. At the southern roundabout 0.32ha of SD1b *Arrhenatherum* SD1 community falls within the 1% contour (see photos 2 and 3 in Appendix 3).
- 6.73 North of Hamm Beach Road roundabout emissions will predominately derive from traffic associated with the ERF. The very localised nature of the area where NO_x levels are above 1% of the critical level along the A354 (within 3m of the road edge) encompasses the footpath running along the western side of the A354 and a very small area of perennial vegetation of stony banks (maritime grassland communities along Hamm Beach). The NO_x emissions associated with the project will decline as the distance from the ERF increases as one travels north along the A354; this is because the concentration of NO_x emissions from the ERF will reduce and emissions from project traffic will be the main contributor to NO_x emissions.
- 6.74 The information given on APIS for annual vegetation of drift lines states that this habitat is not sensitive to NO_x. The information given on APIS for Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruticosi*), Atlantic salt meadows (*Glaucopuccinellietalia maritimae*) and coastal lagoons (a priority habitat) states that site specific advice should be sought for NO_x critical levels, but standard NO_x critical levels are given on the website.
- 6.75 None of these Annex I habitats occurs within the area of the SAC where there is a potential that the combined impact of emissions from the ERF and the road traffic would exceed 1% of the critical levels set for the most sensitive habitat (vegetated shingle of stony banks). Figures 3 and 4 show the distribution of habitats along the A354. No adverse impacts on the integrity of these Annex I habitat are predicted as a result of the operation of the proposed development.

Concentrations of NO_x within Chesil Beach the Fleet SAC are predicted to be below the critical level of 30 µg/m³ (annual mean) set for the protection of all vegetation types with the ERF in operation. As such no adverse impacts on the integrity of the site from increased levels of NO_x within Chesil Beach the Fleet SAC are predicted as a result of combined impact of process emissions and traffic associated with the proposed development.

Assessment of increases in SO₂ concentrations – all Annex I habitats

- 6.76 The APIS background concentration for SO₂ across the SAC is between 0.4 and 0.92 µg/m³, with the background SO₂ concentration being 0.74 µg/m³ at the point of maximum impact of process emissions from the ERF. The critical level for SO₂ for the protection of lichens and bryophytes is 10 µg/m³ (annual mean) and 10-20 µg/m³ for the protection of all vegetation. APIS data shows that across the entire Chesil and the Fleet SAC critical levels of SO₂ have been below 1 µg/m³ between 2014 and 2019.

- 6.77 The air quality modelling undertaken by Fichtner shows that the annual mean SO₂ PC is 0.09 µg/m³, 0.5% of the critical level for the SAC. The annual mean PC for SO₂ combined with the background level is well below the annual mean critical level of 10-20 µg/m³ set for the protection of all vegetation with the ERF in operation. Road vehicle exhaust emissions are not a significant source of SO₂; as such, the impact of SO₂ will purely be driven by emissions from the ERF.
- 6.78 The information given on APIS for annual vegetation of drift lines states that this habitat is not sensitive to SO₂. The information given on APIS for perennial vegetation of stony banks, Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruitcosi*), Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*) and coastal lagoons (a priority habitat) states that site specific advice should be sought for SO₂ critical levels, but a 10-20 µg/m³ critical level range is given.
- 6.79 None of these Annex I habitats occur within the area of the SAC where there is a potential that the combined impact of emissions from the ERF and the road traffic would exceed 1% of the lower end of the critical level range set for the protection of all vegetation. No adverse impacts on Annex I habitats are predicted as a result of the operation of the proposed development.

No adverse impacts on the integrity of the site from increased levels of SO₂ within are predicted as a result of the proposed development. Concentrations of SO₂ within Chesil and the Fleet SAC are predicted to be below the lower end of the critical level range set for the protection of all vegetation (10-20 µg/m³). As the lower end of the critical level is not exceeded it is concluded there would be no effect on any of the Annex I habitats within the SAC. No adverse impacts on the integrity of the site from increased levels of SO₂ within Chesil and the Fleet SAC are predicted as a result of the development.

Assessment of increases in NH₃ concentrations

Analysis of site appropriate critical level of ammonia for perennial vegetation of stony banks

- 6.80 APIS states that the lichens and bryophytes are not present in the qualifying features of Chesil and the Fleet SAC. Therefore, the appropriate annual mean critical level is 3 µg/m³. Rodwell notes that there are no mosses, lichens or liverworts associated with SD1 pioneer shingle communities, which form part of the Annex I habitat perennial vegetation of stony banks. Rodwell notes that bryophytes occur at low frequencies throughout MC5 shingle grassland but in *some* sub-communities they and lichens *may* attain up to 20% cover. Bryophytes are generally scarce in MC8 communities as the grasses form a closed sward (Rodwell, 2000). Thrift (*Armeria maritima*) and red fescue (*Festuca rubra*) are constants of both the MC5 and MC8 communities (Rodwell, 2000). It is likely that the differences in classification of these shingle grasslands as either MC5 or MC8 depend on the interpretation of the surveyors. MC5 and MC8 grasslands are also considered to form part of the Annex I habitat perennial vegetation of stony banks.
- 6.81 The findings of two surveys undertaken in 2005 and 2018 were reviewed to determine if the composition of vegetation communities within the road corridor (200m either side of the A354 – see paragraph 6.61) was consistent with those described in Rodwell. This was supplemented by a review of records of lower plants along this A354 undertaken by DERC (Edwards, 2021). Figures 3 and 4 show the distribution of NVC communities along the A354 corridor as present in the 2018 Footprint Ecology report.

- 6.82 The Footprint Ecology report (2018) identifies that all the SD1 communities occur on the western side of the A354. The report also identifies areas of MC11b, MC5 and MC8a shingle grassland also occur west of the A354. The shingle grasslands west of the A354 occur to the south and west of the Chesil Beach car-park.
- 6.83 The Footprint Ecology report also identifies the grassland to the east of the A354 as MC5 shingle grassland with c0.2ha of SM25. Information on Hamm Beach provided by DERC (Edwards, 2021) notes the more open stands of MC8 and the few very small stands of SD19 support the moss *Syntrichia ruralis* var. *ruraliformis*, which is typical of more calcareous sand dunes, with *Hypnum cupressiforme* var. *lacunosum* forming extensive patches in places. Lichens are not a major component of the vegetation communities in this area.
- 6.84 Information provided by DERC has confirmed the lack of significant areas of lichens and bryophytes in the plant communities present in the SAC within the road corridor -200m either side of the A354 (Edwards, 2021). The findings of surveys undertaken in 2005 and 2018 support the statement within Rodwell and the later report by Edwards regarding the lack of lichens and bryophytes along the road corridor and confirm that 3 µg/m³ is the appropriate critical level to use for the shingle vegetation communities shown in Figures 3 and 4).
- 6.85 The NVC survey undertaken by Footprint Ecology did identify stands of MC5 sea mouse-ear shingle within the wider SAC where the presence of the lichen *Cladonia furcata* is a characteristic. The application of a critical level of 1 µg/m³ is therefore considered to be more appropriate for this distinct shingle grassland sub-community. The Footprint Ecology report notes that this grassland is associated with stable shingle. The area of MC5 grassland to the west of the Chesil Beach car park (within 200m of the A354) shows some characteristics of the lichen-rich MC5 communities (see Figure 3 and 4).

Assessment of increases in NH₃ concentrations – perennial vegetation of stony banks

- 6.86 The APIS background concentration for NH₃ on the SAC is between 0.71 and 2.07 µg/m³, with the background concentration being 0.71 µg/m³ at the point of maximum impact of process emissions from the ERF in the SAC. The air quality modelling of process emissions from the ERF undertaken by Fichtner shows that the maximum annual mean NH₃ PC from the ERF across the SAC is 0.01 µg/m³, 0.4% of the critical level for the SAC. The annual mean PC for NH₃ at the point of maximum impact combined with the background level is below the annual mean critical level of 3 µg/m³ (being 24.0% of the critical level).
- 6.87 Table 9 shows the background concentrations of ammonia recorded across Chesil and the Fleet SAC from 2006 to 2019. This background information is reproduced from data available on APIS.

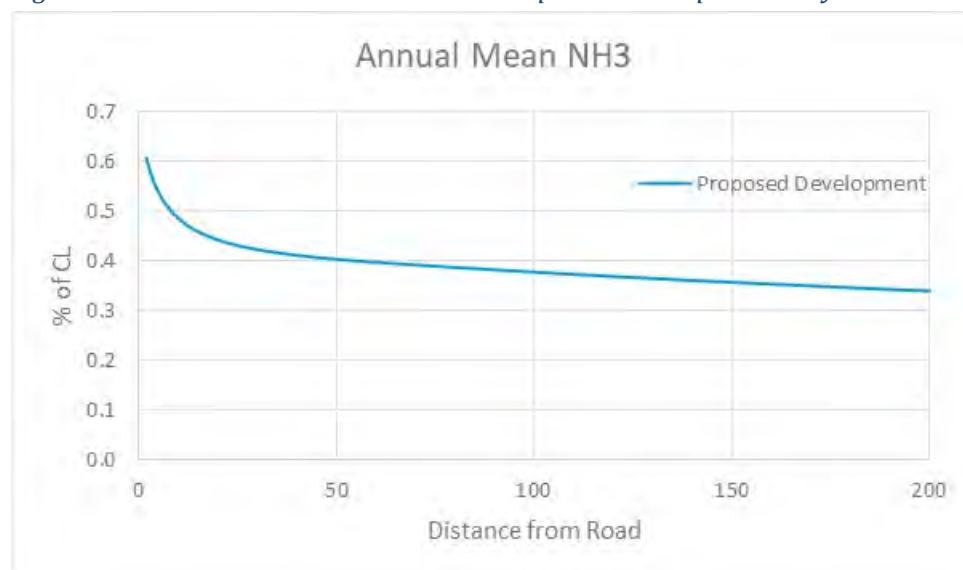
Year	Range across SAC (µg/m ³)	Comments	Range along A354 (µg/m ³)
2006	0.5 – 2.6	5km ² resolution. Highest levels around West Bay. Higher background values in grid squares inland of Fleet.	0.6-0.8
2010	0.7-2.8	5km ² resolution. Highest levels around West Bay. Higher background values in grid squares inland of Fleet.	0.7 - 1

Year	Range across SAC ($\mu\text{g}/\text{m}^3$)	Comments	Range along A354 ($\mu\text{g}/\text{m}^3$)
2014	0.5-2.1	5km ² resolution. Highest levels around West Bay. Higher background values in grid squares inland of Fleet.	0.6 – 0.8
2018	0.7-2.1	5km ² resolution. Highest levels around West Bay. Higher background values in grid squares inland of Fleet.	0.7 - 1
2019	0.7- 1	1km ² resolution. Highest levels around Burton Bradstock/West Bay. Lower background values in grid squares inland of Fleet than previously shown.	0.7

Table 9: Background ammonia concentrations across the SAC

- 6.88 The data presented in Table 9 suggest that ammonia concentrations across Chesil and the Fleet SAC ranged from below 1 $\mu\text{g}/\text{m}^3$ to in excess of 2 $\mu\text{g}/\text{m}^3$ between 2006 and 2018. However, it is considered most likely that the higher levels of ammonia concentrations identified across the SAC during the period 2006 to 2018 are an outcome of the mapping of ammonia concentrations at 5km resolution. Mapping at this resolution makes it more likely that higher ammonia concentrations inland of Chesil and the Fleet SAC are reflected in the grid average. The more refined mapping available for 2019 shows a range of ammonia concentrations between 0.7 and 1 $\mu\text{g}/\text{m}^3$ across the SAC. This is considered likely to be more representative of the baseline conditions across the site; with no significant emitters of ammonia located on the seaward side of Chesil Beach most ammonia is likely to be from agricultural activities on farmland north of the Fleet. This is reflected by the trends for increased concentrations in the Burton Bradstock/West Bay area.
- 6.89 The additional dispersion modelling of road traffic exhaust emissions associated with the operation of the proposed development in appendix 3.4 of the second ES addendum (erratum version) presents the combined impact of process emissions from the ERF and road traffic associated with the proposed development. As shown on figure 12 of appendix 3.4 to the second ES addendum (see below), the total contribution of NH_3 from the proposed development is less than 1% of the critical level within about a metre of the A354 Portland Beach Road, outside the SAC.

Figure 12: Annual Mean Ammonia Proposed Development Only – Chesil Beach



- 6.90 As a sensitivity test, the air quality modelling also considered the potential impacts for the annual mean PC for NH₃ on the SAC, using an annual mean critical level of 1 µg/m³ set for the protection of lichens and bryophytes. This modelling has shown that there is some exceedance above 1% of this critical level in part of the SAC (5.14ha of the SAC). Figure 15 (labelled Figure 14 - taken from Technical Appendix D2: Process Emissions Modelling to the September 2020 ES (erratum version submitted November 2021)) shows the affected area. This figure is included in Appendix 5.
- 6.91 Although the mean annual PC would exceed the relevant 1% critical level threshold for NH₃ at 1 µg/m³, the overall PEC on the site would remain below 100% of the long-term environmental standard with the ERF in operation (the PEC would be 72% of the critical level for NH₃ at 1 µg/m³). Pioneer shingle communities do not support important lichen or bryophyte communities (see paragraphs 6.80-6.85). Therefore, no adverse impacts on the integrity of the site from increased ammonia levels (at critical levels set at 1 µg/m³ and 3 µg/m³) within Chesil Beach and the Fleet SAC are predicted as a result of the proposed development.

Assessment of increases in NH₃ concentrations – other Annex I habitats

- 6.92 The information given on APIS for annual vegetation of drift lines states that this habitat is not sensitive to NH₃. No adverse impacts on the integrity of this Annex I habitat are predicted as a result of the operation of the proposed development, as this habitat is not considered to be sensitive to changes in air quality.
- 6.93 The information given on APIS for Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*), coastal lagoons (a priority habitat) and Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruticosi*) states that site specific advice should be sought for the NH₃ critical level.
- 6.94 None of these Annex I habitats occur within the area of the SAC where there is a potential that the combined impact of emissions from the ERF and the road traffic would exceed 1% of the critical levels set for the protection of both lower and higher plants. Figures 3 and 4 show the distribution of habitats along the A354.

Concentrations of NH₃ within Chesil and the Fleet SAC are predicted to be below the critical level of 1µg/m³ (annual mean) set for the protection of lower plants with

the ERF in operation. As such no adverse impacts on the integrity of the site from increased levels of NH₃ within the are predicted for any Annex I habitat as a result of operation of the proposed development.

Critical loads

Background on vegetation communities found within 200m of A354

- 6.95 The geological conservation review published by JNCC examines the history of the formation of Chesil Beach (May, 1980-2007). The review gives an indication of the type of substrate found in this part of the SAC (within 200m of A354). Chesil Beach is noted for the systematic longshore size-grading of beach material, with the largest shingle cobbles (clasts) occurring at the eastern end of the beach (with a mean long-axis of 50mm). The ridge height also increases from west to east with a maximum height of c14m above mean sea level at Chesilton.
- 6.96 Around 98% of the material that forms Chesil Beach is flint or chert. Chert is a sedimentary rock composed of the mineral form of silicon dioxide. Limestone pebbles originating from the local Portland and Purbeck stone formations are present in the shingle at Chiswell. Although there is the possibility that sand or other calcareous material exists with the shingle structure, it is considered unlikely given the size of the shingle pebbles at the eastern end of the beach, which will have sizable internal voids between each shingle pebble. Fine substrates with a higher pH are likely to occur on the lee side of Chesil Beach.
- 6.97 The JNCC undertook a nationwide survey of coastal vegetated shingle structures in 1993 (Sneddon and Randall, 1993). This survey covered a significant proportion of Chesil Beach, although not the area where the scheme impacts are predicted to be greatest (see paragraph 6.61). The information in the report provides useful background on the types of shingle plant communities that are likely to be present on this part of the SAC. This study also provided a more detailed set of descriptions for shingle vegetation communities than are presented in Rodwell (2000).
- 6.98 The report highlights that along Chesil Beach most of the vegetation communities form on the lee side of the storm crest. The plant community highlighted as being most prevalent at the eastern end of Chesil Beach is the SH7 community, which typically has only 30% plant cover in each quadrat and three species per quadrat on average. It is an extremely depauperate community dominated by sea campion (*Silene uniflora*) with only infrequent maritime herb associates such as yellow horned poppy (*Glaucium flavum*), field bindweed (*Convolvulus arvensis*), prickly sow-thistle (*Sonchus asper*) and orache (*Atriplex* species). The other community likely to be present is the SH3 community. This is another species-poor assemblage and is even more open than the SH7 community with around 95% bare shingle in each quadrat. Sea campion and curled dock (*Rumex crispus littoreus*) are the two constants that dominate the community. The most common associates are Danish scurveygrass (*Cochlearia danica*) and herb-robert (*Geranium robertianum*) although neither occurs in large amounts. This community occurs along much of the length of Chesil Beach.
- 6.99 Both these communities are identified as having affinities to the SD1 community described by Rodwell (2000), although neither is a close match, primarily due to the paucity of yellow horned poppy in both these communities on Chesil Beach. Rodwell notes that the fine gravel beaches tend to support the richer and denser stands of the

SD1 community, particularly where there is some sand or comminuted organic detritus mixed in. It is possible that the presence of finer fractions of gravels is necessary for many shingle plants to develop an extensive network of absorptive roots needed to thrive. This may explain the very low abundance of plants recorded in the SH3 and SH7 communities identified in the JNCC survey which occur on very coarse shingles.

- 6.100 Rodwell notes that decaying wrack or other strandline detritus provides an opportunity of more nitrophilous plants such as spear-leaved orache (*Atriplex prostrata*), sea beet (*Beta vulgaris*) and sow-thistle species. However, the organic content of the substrate of the SD1 community is slight and there is never any development of an integrated soil profile, even in more stable stands. There are no mosses, lichens or liverworts associated with these communities.
- 6.101 In 2018 Footprint Ecology was commissioned by Natural England to update work by Groome and Crowther (2005) mapping Annex I habitat within the NSN site (Lake et al, 2019). This work divided the perennial vegetation of stony banks into two categories: pioneer shingle communities (represented by eight variants of the NVC SD1 community) and shingle grasslands (largely variants of MC5 and MC8 grasslands). The report notes that most of the vegetated areas of the beach include a varying amount of sand within the shingle matrix. The results of the 2018 survey are shown on figures 3 and 4.
- 6.102 The 2018 survey found that the SD1 communities within the site have declined by between 38-84% since 2005; the overall extent of the losses of SD1 sub-communities is shown in table 10. The loss of the pioneer shingle communities is attributed to recreational activities and where there are accumulations of anthropogenic litter.

NVC code	Sub-community description	Area in 2005	Area in 2018	% decline
SD1a	<i>Crambe maritima</i>	9.7	9.7	0%
SD1a	<i>Crithmum maritimum</i>	0.6	0.2	66%
SD1b	<i>Lathyrus japonicus</i>	7.3	3.9	47%
SD1b	<i>Arrhenatherum elatius</i>	2.9	1.3	55%
SD1	<i>Silene uniflora</i>	54.3	23.6 49 (if bare shingle included)	57% (10%)
SD1	<i>Geranium robertianum</i>	6.2	1	84%
SD1	Mixed <i>Sonchus arvensis</i>	2.9	1.8	38%
SD1- SD10	Pioneer shingle stands of <i>Carex arenaria</i>	0.04	-	100%

Table 10: Extent of vegetated shingle pioneer communities within Chesil and the Fleet SAC (from Lake et al, 2019)

NVC code	Sub-community description	Area in 2005	Area in 2018	Area increase/decline
MC5	<i>Sea mouse-ear shingle grassland</i>	7.3	9.5	+2.2
MC8a	<i>Sea pink shingle grassland - typical sub-community</i>	2.2	1.8	-0.4
MC8d	<i>Sea pink shingle grassland - Yorkshire fog sub-community</i>	0.3	0	-0.3
MC8f	<i>Sea pink shingle grassland - kidney vetch sub-community</i>	1.0	1.0	-
MC9b	<i>Yorkshire fog cliff grassland - cock's-foot sub-community</i>	0	1.0	+1.0
MC11b	<i>Wild carrot shingle grassland – sand sedge sub-community</i>	0.6	2.3	+1.7
SD1-MC5/MC8	<i>Horned poppy shingle strandline/shingle grassland (transition)</i>	0.5	1.4	+0.9

Table 11: Extent of vegetated shingle (shingle grassland) communities within Chesil and the Fleet SAC (from Lake *et al*, 2019)

- 6.103 Table 11 shows the results of the NVC survey covering the shingle grasslands that fall within the Annex I habitat vegetated shingle of stony banks within the entire Chesil and the Fleet SAC.
- 6.104 The report notes that overall the extent of shingle vegetation within the site is remarkably stable and the apparent decline in the estimated cover of pioneer vegetation (table 10) is thought to be due to differences in recording areas of bare shingle between the 2005 and 2018 surveys. The report concludes that overall the area of shingle grassland on Chesil Beach remains constant (table 10), although the areas recorded in 2018 represent an increase of 5.1ha of this habitat compared to the 2005 survey.

Relevant critical loads

- 6.105 The APIS website provides critical loads for four of the five Annex I habitats within Chesil and the Fleet SAC. Perennial vegetation of stony banks is the most sensitive habitat to nitrogen, with a critical load of 8-15kg/N/ha/yr. The Annex I habitats coastal lagoons, Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*) and Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruticosi*) all have a critical load of 20-30kg/N/ha/yr. The Annex I habitat annual vegetation of drift lines is not considered to be sensitive to nitrogen.
- 6.106 Two critical loads are provided by APIS for coastal vegetated shingle, depending on the substrate. Stable dune grassland communities on acid substrates have a lower critical load of 8kg/N/ha/yr (with a critical load range of 8-10kg/N/ha/yr), while those communities that occur on calcareous substrates are attributed a critical load range of 10-15kg/N/ha/yr. The APIS website notes that the vegetation of stony banks can be very variable and there are different successional stages, with similarities with grasslands, heaths, wetlands and scrub etc, with many locations being important for lichen heath vegetation. There will be site-by-site variation depending on a range of factors. The critical load for dry heaths and acid grassland may also be relevant.

- 6.107 The EU interpretation manual identifies the NVC communities SD1 community as the community characteristic of the Annex I habitat type perennial vegetation of stony banks. The manual attributes the MC5 and MC8 maritime grassland communities to the Annex I habitat vegetated sea cliffs of the Atlantic and Baltic Coasts. Vegetated sea cliffs of the Atlantic and Baltic Coasts are not an interest feature of Chesil and the Fleet SAC. This distinction is relevant to the assessment process as the critical loads for the habitats differ, with critical loads for maritime grasslands higher than the critical load for perennial vegetation of stony banks.
- 6.108 The Footprint Ecology report lists the key plant species recorded in the SD1 mixed *Sonchus* community, which usually has a high cover of non-maritime species, many of which are short-lived perennials and ruderal species including perennial sow-thistle (*Sonchus arvensis*), bittersweet (*Solanum dulcamara*), bristly ox-tongue (*Picris echioides*), common mallow (*Malva sylvestris*), field bindweed and sea mayweed (*Tripleurospermum maritimum*). Other species present include wild parsnip (*Pastinaca sativa*), wild carrot (*Daucus carota*), sea beet, creeping cinquefoil (*Potentilla reptans*), hedge bindweed (*Calystegia sepium*) and creeping buttercup (*Ranunculus repens*) and, less commonly, smooth sow-thistle (*Sonchus oleraceus*), ribwort plantain (*Plantago lanceolata*), Oxford ragwort (*Senecio squalidus*), hairy willowherb (*Epilobium hirsutum*), hoary ragwort (*Senecio erucifolius*), creeping thistle (*Cirsium arvense*), black medick (*Medicago lupulina*) and creeping bent (*Agrostis stolonifera*).
- 6.109 The Footprint Ecology report also lists the key plant species recorded in the SD1 *Arrhenatherum elatius* community. These include false oat grass (*Arrhenatherum elatius*), perennial sow-thistle, curled dock, sea mayweed, yellow horned poppy, sea beet and up to 50% bare shingle. Bittersweet, field bindweed, hedge bindweed and prickly sow-thistle, all species typical of the SD1 Mixed *Sonchus* community, occur in stands opposite Osprey Quay, adjacent to the road. It appears to be a transitional community between typical SD1 and MG1 communities on the landward extreme of the shingle ridge.
- 6.110 As indicated by the Footprint Ecology survey, the SD1 communities recorded in the part of the SAC shown on Figures 3 and 4 contain a high proportion of non-maritime species. An assessment of the species listed in paragraphs 6.108 to 6.109 against Ellenberg indicators shows that over 80% of species are not typical of sites with saline conditions or significant exposure to salt. The same proportion of species are associated with weakly-basic or weakly acid soils or soils that lie between weakly-basic or weakly acid and calcareous or high pH soils. The assessment also found that 75% of the plants recorded were typical of richly fertile sites or sites with above intermediate fertility.
- 6.111 Typical plant species of acid dune communities, such as those in the North Norfolk Coast SAC, tend to have Ellenberg scores of 6 or below which indicates that they occur in soils that are at least weakly-basic or weakly acid and are tending towards moderately acidic. The clustering for the communities on Portland would suggest that the shingle is not strongly acidic.
- 6.112 This is an important distinction as research in the Baltics has shown that dune communities on more acidic substrates (like those within parts of the North Norfolk Coast) with a parent material pH <6.0 show significant changes in species richness and community composition with low rates of wet nitrogen deposition (5-8kg/N/ha/yr), but these changes were not apparent at slightly calcareous sites (parent material pH > 6.0). This is due to the buffering offered by the carbonate system which prevents acidification occurring with moderate inputs of atmospheric nitrogen (Remke *et al*, 2009).

- 6.113 Following the evaluation of the species present within the Annex I habitat perennial vegetation of stony banks at the eastern end of Chesil Beach (from published research and a site visit) it is concluded that many of the species are typical of at least moderately nutrient rich environments. Assessment of the vegetation community against an acid sand dune community suggests that the Annex I habitats on Chesil Beach are not growing on strongly acid base material. It is possible that the application of an 8kg/N/ha/yr critical load threshold is too low for the communities that form part of the Annex I habitat in this particular part of the SAC.
- 6.114 A precautionary approach has been taken to the modelling of air quality impacts and the lower end of the critical load range of 8kg/N/ha/yr has been used.

Assessment of increases in nitrogen deposition

- 6.115 The APIS background dataset shows that deposition varies across the SAC between 8.5 and 16.4kg/N/ha/yr. This baseline rate of deposition exceeds the lower limit of the critical load given for perennial vegetation of stony banks; the lower limit of the critical load ranges given for any of the other Annex I habitats within the SAC is not exceeded. At the point of maximum impact of process emissions from the ERF within the SAC the background level is 8.48kg/N/ha/yr.
- 6.116 Table 12 shows the rate of nitrogen deposition recorded across Chesil and the Fleet SAC from 2006 to 2019. This background information is reproduced from data available on APIS.

Year	Range across SAC (kg/N/ha/yr)	Comments	Range along A354 (kg/N/ha/yr)
2006	8.5 – 19.5	5km ² resolution. Highest levels around West Bay. Higher background values in grid squares inland of Fleet.	8.5-10.1
2010	8.3-18.6	5km ² resolution. Highest levels around West Bay. Higher background values in grid squares inland of Fleet.	8.5 – 10.2
2014	8.4 – 16.1	5km ² resolution. Highest levels around West Bay and Abbotsbury. Higher background values in grid squares inland of Fleet.	8.5 – 9.9
2018	8.4 - 16.4	5km ² resolution. Highest levels around West Bay. Higher background values in grid squares inland of Fleet.	8.4 – 10.4
2019	8.7- 10.1	1km ² resolution.	8.7 – 9

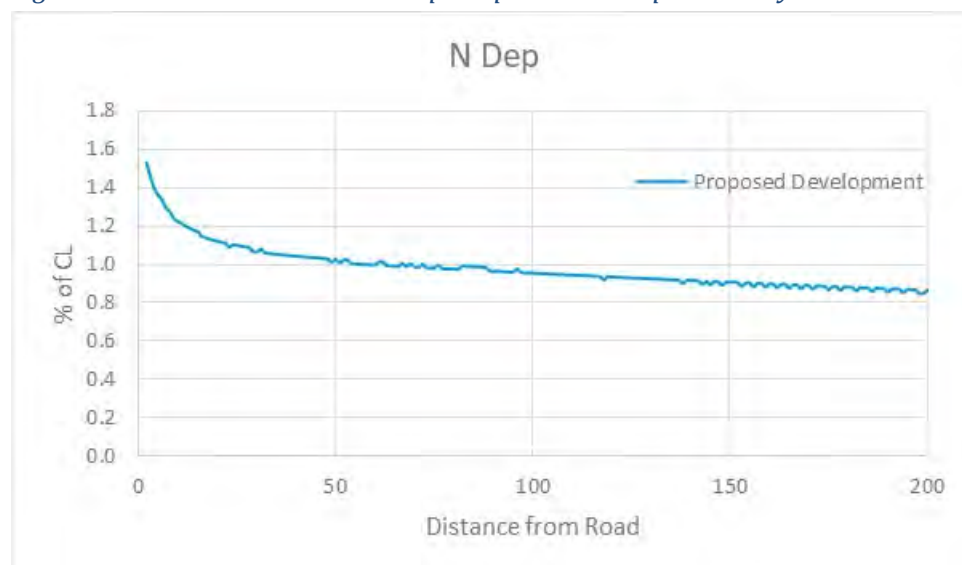
Table 12: Background rates of nitrogen deposition across the Chesil and the Fleet SAC

- 6.117 The data from APIS shows that between 2006 and 2018 the rate of nitrogen deposition across the site has declined significantly where the highest rates of nitrogen deposition occur, but deposition rates remain broadly stable in areas of the SAC where deposition rates are lower. The data from 2019 presented at 1km resolution suggests background levels of nitrogen deposition across the SAC may be lower than indicated by the earlier deposition rates shown at lower resolution.

Assessment of impacts of increased nitrogen deposition on the Annex I habitat perennial vegetation of stony banks

- 6.118 The air quality modelling of process emissions from the ERF undertaken by Fichtner (Technical Appendix D2: Process Emissions Modelling to the September 2020 ES (erratum version submitted November 2021)) shows a maximum rate of nitrogen deposition (PC) within the SAC of 0.073kg/N/ha/yr. This represents 0.9% of the lower end of the critical load given for the Annex I habitat perennial vegetation of stony banks within the SAC. Figure 18 (taken from Technical Appendix D2: Process Emissions Modelling to the September 2020 ES (erratum version submitted November 2021)) shows the area of the SAC impacted and is included in Appendix 5.
- 6.119 The additional dispersion modelling of road traffic exhaust emissions associated with the operation of the proposed development in appendix 3.4 of the second ES addendum (erratum version) presents the combined impact of process emissions from the ERF and road traffic associated with the proposed development. As shown on figure 16 of appendix 3.4, the total contribution of nitrogen deposition from the proposed development remains above 1% of the critical load for a distance of about 100 m from the A354 Portland Beach Road (see also Table 6 of appendix 3.4 of the second ES addendum (erratum version)).

Figure 16: Annual mean N Dep Proposed Development Only – Chesil Beach



- 6.120 The Footprint Ecology report identifies the SD1 vegetation community Mixed *Sonchus arvensis* as occurring within the area of deposition above 1%. There is also a stand of the SD1 community *Arrhenatherum elatius* within the zone of impact. The report notes that one of the stands of Mixed *Sonchus arvensis* appears to have developed since 2005, indicating that baseline conditions remain suitable for the development of Annex I habitat in this area.
- 6.121 The air quality modelling shows that alone the impact of the development (traffic and emissions from the plant) will result in nitrogen deposition rates of 0.12kg/N/ha/yr up to 3 metres from roadside. The greatest source of nitrogen deposition is ammonia from road traffic emissions. As highlighted in paragraph 6.71, a footway runs along the western side of the A354, so the first 2m where nitrogen deposition will be highest is outside of the SAC.

- 6.122 As noted in paragraph 6.120, the Footprint Ecology report identifies the SD1 vegetation community Mixed *Sonchus arvensis* and a stand of the SD1 community *Arrhenatherum elatius* as occurring within the area of deposition above 1%. This habitat has formed at the base of the lee side of the shingle bar alongside the A354, an area where the finer gravels and other sediments have accumulated (as described in Rodwell, see paragraph 6.99), allowing the richer and denser stands of the SD1 community to form. The Footprint Ecology report notes this community is usually found where the shingle has been disturbed and/or where there is finer grained material present. It is present in unit 1 of the SSSI near Portland and towards Bridport, usually close to the landward margins.
- 6.123 Along the roadside various SD1 communities are present, with sea campion and rock samphire established or establishing on loose shingle within metres of the road (see photos 6 and 7). Photos 8, 9, 10 and 11 show the SD1 mixed *Sonchus* and SD1 *Arrhenatherum* communities alongside the A354 in the area shown on figures 3 and 4.
- 6.124 The supplementary advice on conservation objectives for the Annex I habitat perennial vegetation of stony banks (updated 13/3/20) sets a target to restore concentrations and deposition of air pollutants to below site-relevant critical load and level values given for this feature on APIS. The supporting notes include a site-relevant critical load for this Annex I habitat of 8-15kg/N/ha/yr, going on to note that, with a maximum deposition of 16.1kg/N/ha/yr, nitrogen deposition exceeds the site relevant critical load for ecosystem protection and hence there is a risk of harmful effects.
- 6.125 Information on APIS shows that the level of nitrogen deposition on this part of the SAC is far lower than occurs on other parts. The background level of nitrogen deposition on this part of the SAC between 2017 and 2019 was 8.4kg/N/ha/yr (367826, 74236), an exceedance of the lower end of the critical load for this habitat of 0.4kg/N/ha/yr.
- 6.126 Site visits to the areas (Hamm Beach and Chesil Beach (August 2020 and June 2021)) found that the substrate was formed of reasonably sized shingle pebbles with extensive bare shingle present. In some areas comminuted organic detritus, gravel and sand occurs in the gaps between shingle pebbles; this is where the better developed vegetation stands occur. This matter may have derived from flooding events, rotting plant material or dust and mud from the road. The presence of this material seems to allow non-maritime species the opportunity to establish, as described by Rodwell and Footprint Ecology. As shown in photos 6 and 7, where loose bare shingle is present, early pioneer SD1 communities are present and appear to be re-establishing in some areas following disturbance to the shingle.
- 6.127 The Annex I habitat perennial vegetation of stony banks within the SAC is already experiencing levels of nitrogen deposition above the minimum deposition rate identified for this habitat. It should be noted that the detailed air quality modelling produced by Fichtner for the A354 corridor highlights that baseline levels of nitrogen deposition (when allowing for the spatial variation due to the presence of the A354) are far higher than the gridded average for the relevant 5km or 1km grid square provided by APIS. It is likely that rates of nitrogen deposition along the road corridor have exceeded the upper end of the critical load range for many years close to the A354.
- 6.128 Excessive nitrogen deposition is considered to lead to increases in tall grasses, a decrease in prostrate plants, increased nitrogen leaching, soil acidification and the loss of typical lichen species. However, this is a variable community and there are different successional stages with similarities to grassland and heathland communities.

- 6.129 When considering species-richness in sand dune habitats the Caporn *et al*, 2016 study found that where background levels of nitrogen deposition are 5kg/N/ha/yr increases in nitrogen deposition of between 0.1 and 0.3kg/N/ha/yr. are required to reduce measured species richness by one species. For sites with background levels of deposition of 10kg/N/ha/yr. increases in nitrogen deposition of between 0.5 and 0.6kg/N/ha/yr. are required to reduce measured species richness by one species. Large amounts of additional nitrogen deposition are required to reduced species richness by one species in acid grassland habitats with the same background rates of nitrogen deposition.
- 6.130 As shown in Table 6 of appendix 3.4 of the second ES addendum (erratum version; see appendix 5) rates of nitrogen deposition peak within 3m of the road edge (0.12kg/N/ha/yr.) and then fall as distance from the road edge increases. It should also be noted that as distance from the ERF increase the contribution from the emissions from the ERF is reduced. In the modelled transect this is steady at 0.07kg/N/ha/yr but this will not be representative of the deposition rates along the whole length of the A354 as it passes through the SAC.
- 6.131 The formation of vegetation communities within 200m of the A354 is influenced not only by air quality, but also the presence of a major road which is raised above the surrounding shingle bar and recent and more historic drainage features and the presence of Osprey Quay on the edge of Portland Harbour. A number of utilities, including gas mains, water mains, rising mains and electricity cables, are buried in the shingle either side of the A354 (see Appendix 4 and photos 12 to 15 in Appendix 3). The maintenance of the flood defences and utilities will result in disturbance to the shingle communities in the areas adjacent to the road. Significant excavations could be considered to be akin to the displacement of shingle by large storm surges.
- 6.132 The presence of a number of man-made structures creates a pattern of ridges and depressions that effectively prevents further movement of the shingle eastwards into Portland Harbour and confines the shingle communities present to narrow bands, largely restricted to areas between anthropogenic features until the predominantly bare shingle west of the flood alleviation channel is reached.
- 6.133 The influences of these man-made features and historic elements will have a significant effect on the vegetation communities in this area. The area immediately west of the A354 is not subject to the same natural processes as much of the rest of the 28km long shingle bar that forms Chesil Beach. The vegetation communities and influence of natural processes are affected by the highly modified nature of this part of the site.
- 6.134 Given the low rates of nitrogen deposition associated with the project, the localised impact of increased nitrogen deposition, the composition of the shingle community in this area, evidence from field visits that pioneer vegetation shingle communities will readily establish in this zone and the transitional nature of the SD1 communities, it is not considered that the additional nitrogen deposition that would occur as a result of the operation of the plant would result in any adverse effects on the integrity of Chesil and the Fleet SAC.

Background deposition rates of nitrogen within Chesil and the Fleet SAC already exceed the lower end of the critical load range set for the protection of the Annex I habitat perennial vegetation of stony banks. After reviewing baseline conditions within the site it was concluded that the minor increase in nitrogen deposition predicted as a result of the development would have no adverse impacts on the

integrity of the site in relation to the Annex 1 habitat perennial vegetation of stony banks.

Assessment of impacts of increased nitrogen deposition on other Annex I habitats

- 6.135 The APIS website states that the Annex I habitat annual vegetation of drift lines is not sensitive to eutrophication and no critical load for this habitat is given. The very small increases in nitrogen deposition modelled to occur as a result of the proposed ERF would only occur along a very short length of the coast where this habitat may form. Given this Annex I habitat is not considered to be sensitive to nitrogen deposition, no adverse impacts are predicted as a result of the proposed development.
- 6.136 The APIS website gives a critical load of 20-30kg/N/ha/yr for both Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*) and coastal lagoons (a priority habitat). These habitats are not present within the zone of impact associated with the dispersion modelling for the ERF. The Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*) mostly occur in the area around Abbotsbury Swannery and the Fleet (coastal lagoon) lies north of the visitor centre, west of the A354.
- 6.137 APIS gives background levels of nitrogen deposition of between 8.5 and 16.4kg/N/ha/yr for Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*) and between 6.7 and 9.6kg/N/ha/yr for coastal lagoons. Even with the nitrogen deposition from traffic associated with the proposed development added to the background levels, the lower end of the critical load range given for these habitats would not be exceeded.
- 6.138 The APIS website gives a critical load of 20-30kg/N/ha/yr for the Annex I habitat Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruitcosi*). APIS gives background levels of nitrogen deposition of between 8.5 and 16.4kg/N/ha/yr for Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruitcosi*). Even with the nitrogen deposition from traffic associated with the proposed development added to the background levels, the lower end of the critical load range given for this habitat would not be exceeded.

Modelling shows that the lower end of the critical load range give for three Annex I habitats: Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruitcosi*), Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*) and coastal lagoons (a priority habitat) is not exceeded as a result of the proposed development. No adverse impacts on the integrity of the site arising from increased nitrogen deposition of the Annex I habitats within Chesil and the Fleet SAC are predicted as a result of the proposed development.

Assessment of increases in acid deposition

- 6.139 The highest predicted contribution of acid deposition from the ERF within the SAC is 1.3% of the critical load function for acid grassland. As discussed in paragraphs 6.110 to 6.111, the grassland communities within the SAC support assemblages of plants associated with weakly acidic to calcareous substrates. The PEC will be well below 70% of the long-term critical load for acid grassland with the operation of the proposed development.

No adverse impacts on the integrity of the site from increased levels of acid deposition within Chesil and the Fleet SAC are predicted as a result of the proposed development.

Summary of impacts on Chesil and the Fleet SAC

6.140 Table 13 sets out a summary of the assessment of impacts on Chesil and the Fleet SAC.

Assessment steps	Commentary	Reference
Consideration of conservation objectives	The conservation objective of maintaining or restoring the structure and function (including typical species) of qualifying natural is considered most relevant to the assessment of impacts of changes in air quality.	See paragraphs 4.28 and 4.29
Consideration of background levels	Background concentrations of SO ₂ and NH ₃ are below relevant critical levels across Chesil and the Fleet SAC. NOx critical levels are below relevant critical level across Chesil and the Fleet SAC. Background nitrogen deposition rates are above lower end of critical load range for Annex I habitat perennial vegetation of stony banks. No exceedance for other Annex I habitats.	NOx: Table 8 and paragraphs 6.64-6.65 SO ₂ : See paragraph 6.76 NH ₃ : Table 9 and paragraphs 6.86-6.88 N dep: Table 12 and paragraphs 6.115-6.117.
Consider the designated site in national context	An examination of the appropriate critical load for nitrogen deposition for perennial vegetation of stony banks was undertaken.	See paragraphs 6.105-6.114
Consider the best available evidence on small incremental impacts from nitrogen deposition	Impacts on small additions of nitrogen within A354 corridor considered.	See paragraphs 6.126-6.129
Consider the spatial scale and duration of the predicted impact and the ecological functionality of the affected area	Air quality modelling identified area of greatest impact to be south of Hamm Beach Road roundabout (SY6754,7464) and within 200m of A354.	NOx: Paragraphs 6.66-6.75 SO ₂ : Paragraph 6.77-6.79 NH ₃ : Paragraphs 6.89-6.94 N dep: Paragraphs 6.118-6.125 and 6.135-6.138.
Consider site survey information	A number of recent vegetation surveys along with site visits have been used to inform this assessment.	Table 7 and paragraph 6.62. Paragraphs 6.80-6.85. Tables 10 and 11 and paragraphs 6.95-6.104. Paragraphs 6.122-6.133.
Consider national, regional and local initiatives or measures which can be relied upon to reduce background levels at the site	No national, regional or local initiatives are currently in place that could be relied upon to reduce background levels across the site.	N/A
Consider measures to avoid or reduce the harmful effects of the plan or project on site integrity	No measures considered necessary due to conclusion of no adverse effect on site integrity.	N/A
Consider any likely in-combination effects with other live plans and projects from other sectors	See section 7	See section 7

Table 13: Summary of assessment on Chesil and the Fleet SAC

Chesil Beach and the Fleet SPA/Ramsar – critical levels

6.141 The boundaries for Chesil Beach and the Fleet SPA/Ramsar are over 1km north west of the zone of impact discussed for Chesil and the Fleet SAC. The air quality modelling for

the SAC represents an over-estimation of the worst-case deposition scenario for the SPA/Ramsar site and the impacts will be significantly lower than that for the SAC.

- 6.142 As demonstrated for the SAC, the mean annual and daily PC is below 1% and 10% of the relevant critical levels for NO_x within about a metre of the A354 Portland Beach Road. No adverse impacts on the integrity of the site from increased levels of NO_x within Chesil Beach and the Fleet SPA/Ramsar are predicted as a result of the proposed development alone.
- 6.143 As demonstrated for the SAC, the annual mean PC for SO₂ combined with the background level is below the annual mean critical level of 10-20 µg/m³ set for the protection of all vegetation with the development in operation. No adverse impacts on the integrity of the site from increased levels of SO₂ within Chesil Beach and the Fleet SPA/Ramsar are predicted as a result of the development alone.
- 6.144 As demonstrated for the SAC, the annual mean NH₃ PC is 0.01 µg/m³, 0.4% of the critical level for the SAC. The annual mean PC for NH₃ from the ERF and traffic combined with the background level is below the annual mean critical level of 3 µg/m³ (as given on APIS and used in the air quality assessment) for the protection of vegetation with the development in operation within about a metre of the A354 Portland Beach Road. No adverse impacts on the integrity of the site from increased levels of NH₃ within Chesil Beach and the Fleet SPA/Ramsar are predicted as a result of the proposed development alone.
- 6.145 Given the distance of the SPA/Ramsar from the proposed development, and the fact that no adverse impacts on sensitive habitats (shingle communities) are predicted within the SAC, which lies much closer to the development, no changes in the vegetation composition and structure within the SPA/Ramsar are anticipated. The breeding habitat of little tern (bare shingle and sandy substrates) and the feeding areas of wintering wigeon (saltmarsh, grassland and mudflats) will be unaffected by changes in air quality associated with the proposed ERF alone.

Chesil Beach and the Fleet SPA/Ramsar – critical loads

- 6.146 The APIS website provides a range of critical loads for nitrogen deposition on habitats used by breeding little tern within the SPA. These range from 8-10kg/N/ha/yr to 10-20kg/N/ha/yr. The habitat used by wintering wigeon has a critical load of 20-30kg/N/ha/yr.
- 6.147 The air quality modelling undertaken by Fichtner (technical appendix D2 of the ES) shows the rate of nitrogen deposition (PC) within the SPA/Ramsar is below 1% of the lower end of the critical load given for nesting habitat used by little tern within the SPA/Ramsar and below 1% of the lower end of the critical load given for wintering wigeon.
- 6.148 The air quality modelling undertaken by Fichtner shows that the area of highest nitrogen deposition (0.9% of the lowest critical load given for the habitat used by breeding little tern) occurs outside of the SPA. Little tern nest at the eastern end of the Fleet. The breeding area is fenced off during the breeding season to prevent access and the site is wardened.
- 6.149 There is no published evidence of little tern breeding at the eastern extreme of Chesil Beach (beyond the boundary of the SPA) where the nitrogen deposition is predicted to be highest (0.9% of the relevant critical load). The tern colony is located c1.5km to the north west of where the highest level of nitrogen deposition is predicted to occur. No

adverse impacts on the integrity of Chesil Beach and the Fleet SPA/Ramsar are predicted from the operation of the proposed development.

- 6.150 Wintering wigeon use the Fleet for foraging and roosting. The critical load for the habitat used by wintering wigeon is 20-30kg/N/ha/yr. The current levels of nitrogen deposition on the Fleet are below the lower end of the critical load given on APIS. Deposition associated with the proposed development will be under 1% of the relevant critical load for this habitat and levels will remain below the lower end of the critical load range once the scheme is operational.
- 6.151 The area of highest nitrogen deposition from the facility on habitat potentially suitable for nesting little terns falls outside the Ramsar boundary. As 8kg/N/ha/yr is one of the lowest critical loads set for habitats (5kg/N/ha/yr is the lowest end of the critical load range for habitats), it is considered sufficiently precautionary to conclude there will be no adverse impacts on other habitats within the Ramsar as a result of the implementation of this project. No adverse impacts on the integrity of Chesil Beach and the Fleet SPA/Ramsar are predicted from the operation of the proposed development.
- 6.152 Emissions from traffic linked to the proposed development are predicted to increase rates of nitrogen deposition close to the edge of the carriageway. The emissions from road traffic, combined with the background levels given on APIS, would not exceed the lower end of the critical load range where the A354 runs adjacent to the Fleet. No impacts on wintering wigeon are anticipated. It is concluded there will be no adverse impacts on site integrity from the operation of the proposed development.
- 6.153 The little tern colony lies over 300m from the A354. At this distance contributions of nitrogen from road traffic will be minimal. No impacts on the nesting habitat of little terns associated with emissions from traffic linked to the proposed development are predicted. It is concluded there will be no adverse impacts on site integrity from the operation of the proposed development.
- 6.154 The scaly cricket is known to occur in two 10km grid squares (SY67 and SY68) on Chesil Beach. The bulk of this population live as interstitial residents within the shingle on the exposed seaward face of the shingle bank above the high-tide line. The animals emerge at night to feed on animal and vegetable matter associated with the strandline.
- 6.155 The predicted increase in nitrogen deposition would not lead to increased plant growth on the shingle ridge. Most of the plant communities that comprise the Annex I habitats form on the lee-side of the storm ridge. The tidal patterns of the local area and levels of strandline detritus would not be impacted by the project. It is concluded there will be no adverse impacts on site integrity from the operation of the proposed development.

Summary of impacts on Chesil Beach and the Fleet SPA/Ramsar

- 6.156 Table 14 sets out a summary of the assessment of impacts on Chesil Beach and the Fleet SPA/Ramsar.

Assessment steps	Commentary	Reference
Consideration of conservation objectives	The conservation objective of maintaining or restoring the structure and function of the habitats of the qualifying species.	See paragraphs 4.26 and 4.27
Consideration of background levels	Background concentrations of SO ₂ and NH ₃ are below relevant critical levels across Chesil Beach and the Fleet SPA/Ramsar. NO _x critical levels are below relevant critical level across Chesil Beach and the Fleet SPA/Ramsar. Background nitrogen deposition rates are above lower end of critical load range for shingle used by breeding little tern. Critical loads not exceeded for other habitats within site.	Overlap with SAC. Background levels/loads as per Table 13. NO _x : Table 8 and paragraphs 6.64-6.65 SO ₂ : See paragraph 6.76. NH ₃ : Table 9 and paragraphs 6.86-6.88 N dep: Table 12 and paragraphs 6.115-6.117.
Consider the designated site in national context	Not considered.	Not considered.
Consider the best available evidence on small incremental impacts from nitrogen deposition	Nitrogen deposition not considered significant within SPA	Paragraphs 6.146-6.153
Consider the spatial scale and duration of the predicted impact and the ecological functionality of the affected area	Impacts on breeding little tern, wintering wigeon and scaly cricket all assessed.	Paragraphs 6.148-6.154
Consider site survey information	Information on location of little tern colony used.	Paragraph 6.149
Consider national, regional and local initiatives or measures which can be relied upon to reduce background levels at the site	No national, regional or local initiatives are currently in place that could be relied upon to reduce background levels across the site.	N/A
Consider measures to avoid or reduce the harmful effects of the plan or project on site integrity	No measures considered necessary due to conclusion of no adverse effect on site integrity.	N/A
Consider any likely in-combination effects with other live plans and projects from other sectors	See section 7	See section 7

Table 14: Summary of impacts on Chesil Beach and the Fleet SPA/Ramsar

Portland to Studland SAC

- 6.157 No potential impact pathways have been identified on the Portland to Studland SAC. The Standard Data form generated by JNCC in 2017 identifies two site threats: human intrusions and disturbances and fishing and harvesting aquatic resources. Neither pollution of surface water or air-borne pollutants are listed as threats for this site.
- 6.158 ABPmer has reviewed the information provided for the application and has concurred with the view that aerial pollution presents no credible risk to the SAC (see appendix 9.3 to the August 2021 ES addendum).

Water pollution

Chesil and the Fleet SAC and Chesil Beach and the Fleet SPA/Ramsar

- 6.159 The location of the proposed ERF is situated over 2km from the nearest point of the SAC and over 3km from the entrance to the Fleet. There is the possibility that

contaminated water or other pollutants could enter Portland Harbour via surface water discharge from the site and impact on the interest features of the SAC/SPA/Ramsar.

- 6.160 To mitigate the potential for contamination of the waters of Portland Harbour a framework CEMP has been prepared (see technical appendix C of the ES) which sets out industry standard good practice working methods and mitigation measures set out in the Environment Agency's Pollution Prevention Guidelines (PPGs) (withdrawn) and Guidance for Pollution Prevention (GPPs). This includes details of the management of water and sediment across the site and provisions to minimise the likelihood of run-off, provide containment of spillage and capture or treat wastewaters where necessary.
- 6.161 Given the distance of the SAC from the proposed development it is concluded that, provided the measures set out in the CEMP are followed, no adverse impacts on Chesil and the Fleet SAC will occur. ABPmer has reviewed the information provided for the application and has concurred with the view that water pollution presents no credible risk to the SAC with the CEMP in place (see appendix 9.3 to the ES addendum). The CEMP will be approved by the competent authority prior to commencement of any works on site.
- 6.162 The adoption and implementation of measures set out in the CEMP will be sufficient to avoid any adverse impacts on site integrity relating to the Chesil Beach and the Fleet SPA/Ramsar.

Portland to Studland SAC

- 6.163 No potential impact pathways have been identified on the Portland to Studland SAC. The Standard Data form generated by JNCC in 2017 identifies two site threats: human intrusions and disturbances and fishing and harvesting aquatic resources. Neither pollution of surface water or air-borne pollutants are listed as threats for this site.
- 6.164 To mitigate the potential for contamination of the waters of Portland Harbour a framework CEMP has been prepared (see technical appendix C of the ES) which sets out industry standard good practice working methods and mitigation measures set out in the Environment Agency's Pollution Prevention Guidelines (PPGs) (withdrawn) and Guidance for Pollution Prevention (GPPs). This includes details of the management of water and sediment across the site and provisions to minimise the likelihood of run-off, provide containment of spillage and capture or treat wastewaters where necessary.
- 6.165 Given the distance of the SAC from the proposed development (2.6km to the south and over 6.5km to the east) it is concluded that, provided the measures set out in the CEMP are followed, no adverse impacts on Portland to Studland SAC will occur. ABPmer has reviewed the information provided for the application and has concurred with the view that water pollution presents no credible risk to the SAC with the CEMP in place (see appendix 9.3 to the ES addendum). The CEMP will be approved by the competent authority prior to commencement of any works on site.
- 6.166 The adoption and implementation of measures set out in the CEMP will be sufficient to avoid any adverse impacts on site integrity relating to Portland to Studland SAC.

Dust

Isle of Portland to Studland Cliffs SAC

- 6.167 Dust suppression measures that will be implemented on site are covered in the CEMP. Measures set out in the CEMP include the locating of dust causing activities as far away from the SAC boundary as possible, erecting solid screens or barriers along the

boundary of the site adjacent to the SAC, covering stockpiles of earth, the imposition of a site speed limit, requirements to damp down stockpiles and dusty areas as appropriate, the use of enclosed chutes and conveyors, covering skips, minimising drop heights, and the use of water-assisted dust sweepers along track out routes and use of wheel-washes.

- 6.168 The adoption and implementation of measures set out in the CEMP will be sufficient to avoid any adverse impacts on site integrity relating to the Isle of Portland to Studland Cliffs SAC.

Traffic emissions

Crookhill Brick Pits SAC

- 6.169 No potential impact pathways have been identified on the Crookhill Brick Pits SAC. No significant emissions from the plant have been identified as occurring on this SAC and there will be no increases in traffic on the roads around this SAC related to this development. HGVs accessing the site during both the construction and operation will use Dorset Council's prescribed one-way system.
- 6.170 HGV traffic heading to Portland will be routed along the B3157 (off the A354) and then south along the B3156 until traffic rejoins the A354 in Wyke Regis. The roundabout of the A3157 and B3156 is the closest point along this route to the Crookhill Brick Pits SAC. This roundabout is over 275m from the SAC.
- 6.171 The trip generation rate for the proposed development is well below the 200 HGV screening threshold set out in Natural England guidance (2018) and the SAC is over 200m from a road that could potentially be affected by the operation using DMRB guidance. Even accounting for ammonia emission from HGVs no significant changes in nitrogen deposition on the SAC are anticipated.
- 6.172 Potential impacts on the Crookhill Brick Pits SAC are not considered likely due to the imperceptible increase in pollutants from the facility on this site and the distance of the site from roads receiving higher traffic flows due to the development. No adverse impacts on site integrity relating to the Crookhill Brick Pits SAC are predicted.

7.0 In-combination effects

Projects included in the assessment

- 7.1 A list of twelve projects have been identified for assessment of the likelihood of in-combination effects on the NSN sites.
- 7.2 Only impacts related to changes in air quality, water quality and generation of dust were identified as having potential impact pathways that could affect the interest features of the NSN sites. If any of the twelve projects identified generates the same impacts, these need to be considered for potential in-combination effects. Table 15 below presents a summary of the potential in-combination pathways identified for the twelve projects.

Project	Potential in-combination impact pathway		
	Dust generation	Changes in water quality in Portland Harbour	Changes in air quality
Ocean Views, Hardy Complex, Castle Road, Portland (phase 2)	Located adjacent to Isle of Portland to Studland Cliffs SAC	Unlikely to be direct run-off into Portland Harbour	Construction and post-construction traffic
Royal Manor Arts College, Weston Road, Portland	No, due to distance from application site	No, due to distance from Portland Harbour	Construction and post-construction traffic
Verne Common Road and Ventnor Road, Portland	No, due to distance from application site	No, due to distance from Portland Harbour	Construction and post-construction traffic
Southwell Primary School, Sweethill Lane, Portland	No, due to distance from application site	No, due to distance from Portland Harbour	Construction and post-construction traffic
Ferrybridge Inn, Portland Road, Weymouth	No, due to distance from application site	No, due to distance from Portland Harbour	Construction and post-construction traffic
Disused Quarry Works Stockyard, Bottom Coombe, Park Road, Portland	No, due to distance from application site	No, due to distance from Portland Harbour	Construction and post-construction traffic
Plot X, Mulberry Avenue, Portland: erection of two blocks of two storey business units comprising three B1 units and six B8 units (total floorspace 766 sqm) with associated parking and landscaping	No, due to distance from application site	No, due to distance from Portland Harbour	Construction and post-construction traffic
Plot M1B, Hamm Beach Road, Portland: erection of three industrial and commercial buildings (B1, B2 and B8, total floorspace 2,879 sqm) and associated external works	No, due to distance from application site	No, due to distance from Portland Harbour	Construction and post-construction traffic
The Heliport, Coode Way, Portland: Erection of building for servicing and maintenance of helicopters and additional facilities incidental to heliport use (outline - access, appearance, layout and scale). Council reference: WP/20/00467/OUT.	No, due to distance from application site	No, due to distance from Portland Harbour	Construction and post-construction traffic
Project Osprey: construction of two animal feed storage and distribution warehouses, each 140m x 45m x 20m, and an office building 16m x 4m x 5.15m, to handle 250,000-300,000 tonnes per year (Council reference:	No, due to distance from application site	Potential for run-off into Portland Harbour	Construction and post-construction traffic

WP/19/00514/SCRE), currently under construction.			
Project Inner Breakwater and Camber Area Alterations: development of operational land for the purposes of shipping and in connection with the embarking, disembarking, loading, discharging or transport of passengers, livestock or goods, including a new berth apron in the Crane Berth Apron Operational Area and a new yard pavement at the Camber Operational Yard to enable the berthing and handling of ships up to 120 m long, their cargoes and passengers (Council reference: WP/15/00328/PD).	No, due to distance from application site	Potential for run-off into Portland Harbour	Construction and post-construction traffic
Redundant buildings at Bumpers Lane, Portland. Demolition of existing redundant industrial buildings and erection of approximately 64 dwellings (application reference: WP/14/00330/OUT)	No, due to distance from application site	No, due to distance from Portland Harbour	Construction and post-construction traffic

Table 15: Potential in-combination effect pathways with other projects in the area

7.3 The main potential in-combination impacts from the ERF (or Project) have been identified as those associated with traffic using the A354 (Portland Beach Road). Table 15 sets out the projects within the local area that have been identified for inclusion within the in-combination assessment. These have been agreed with the Competent Authority.

Projects excluded from the assessment

7.4 The two Portland Harbour Revision Orders cover a number of developments within the port area. The 1997 HRO (broadly) identified developments that were intended to facilitate the transfer of the military naval base to private commercial port activity. The 2010 Order was focussed on improvements to the marine aspects with improvements to port and harbour infrastructure. Those projects that have consent or are under construction have been included in the in-combination assessment: Project Osprey and Project Inner Breakwater and Camber Area Alterations (as set out in Table 15).

7.5 The remaining development facilitated under the 1997 Portland Harbour Revision Order (but not yet undertaken) is as follows:

- Open storage of waste products, including waste wood and metal, on the Parade Ground area of the Rifle Range.
- High Speed Ferries: a proposed cross-Channel passenger / car high speed ferry operating 2-3 daily sailings (round trips) over the 26-week summer season (April-October) and weekend sailings (Friday, Saturday and Sunday) over 20 weeks during the winter season (permitted under the RoRo ferries element of the HRO).
- The HRO grants permitted development rights for B1/B2/B8 development on several areas of land at the Port that have yet to be developed (areas Port 2, Port 5, Port 6 and Port 7).

- Landside aquaculture: construction of a warehouse building for aquaculture, producing 200-300 tonnes of fish, on a site measuring 135m x 37m (application references: WP/14/01033/OUT and WP/16/00150/RES) – these permissions have lapsed, but the site is being marketed as a potential development site for a similar use so it is assumed a similar development could be constructed on the site in the future.

7.6 The 2010 HRO facilitated the following developments:

- New berthing faces to the north and east of New Quay and Coaling Pier Island (Works 1 and 5) and new berthing faces to the retaining structures to the south and west of Queen’s Pier (Work 7) by the construction of concrete blockwork quay walls and/or piled and suspended deck sections and/or rock armoured rubble mound retaining embankments.
- Reclamation of as much of the foreshore and seabed as is required for the above works (Works 2, 6 and 8).
- Two 30m wide floating linkspans commencing on the new northern and eastern faces of the berthing faces adjacent to the shoreward arm of Queen’s Pier (Work 3).
- A 30m wide floating linkspan commencing on the eastern face of Work 7 (Work 9).
- A mooring dolphin lying 70m to the east of the eastern face of Work 1, with bearing piles, mooring structures and reinforced concrete heads, connected to Work 1 by a steel access walkway (Work 4).
- Two lines of mooring dolphins up to 250m long and up to 70m apart, with bearing piles, mooring structures and reinforced concrete heads, connected by steel walkways and the permanent mooring at the dolphins of a floating dry-dock (Work 10).
- A reinforced concrete or steel pontoon providing access to and from Work 10 (Work 11).

7.7 These projects have been screened out of the in-combination assessment. The rationale for excluding these particular projects from the in-combination assessment has been set out in Table 16.

Project	Potential in-combination impact pathway: Changes in air quality
Open storage of waste products, including waste wood and metal, on the Parade Ground area of the Rifle Range	Excluded from in-combination assessment as there are currently no details of development proposals for this element of the 1997 HRO and there is no timescale for implementing these works. This means it is not possible for accurate traffic modelling to be undertaken. Based on previous modelling (based on a theoretical scenario) the high-level consideration of potential impacts has identified that significant increases in traffic flows will trigger need for HRA screening.
High Speed Ferries: a cross-Channel passenger / car high speed ferry operating 2-3 daily sailings (round trips) over the 26-week summer season (April-October) and weekend sailings (Friday, Saturday and Sunday) over 20 weeks during the winter season	Excluded as project has no funding at present so there is no certainty if this element of the 1997 HRO will be implemented. Traffic modelling for this element would be hypothetical as, without a credible commercial proposition in place, there is no details on the type/size of ferry, capacity of ferry or timetable from which to calculate traffic flows. Based on previous modelling (based on the theoretical scenario) the high-level consideration of potential impacts has identified that significant increases in traffic flows will trigger need for HRA screening.
Port 2: permitted development rights for B1/B2/B8	Not currently in use for B1/B2/B8. This area has been in longstanding use as the Port’s Waste Reception Facility, operated by a tenant under a lease, so related road movements are already fully reflected in the baseline data. If this plot was modelled assuming B1/B2/B8 uses, traffic flows (notably HGV

Project	Potential in-combination impact pathway: Changes in air quality
	movements) would be far greater than current uses leading to an inaccurate modelling outcome which would over estimate in-combination concentrations or deposition rates within the SAC.
Port 5: permitted development rights for B1/B2/B8	Port 5 has been leased (since May 2022) to UK Oil and Gas PLC for an energy storage facility (no significant increases in traffic flows predicted). If this plot was modelled assuming B1/B2/B8 uses, traffic flows (notably HGV movements) would be far greater than actual use leading to an inaccurate modelling outcome which would over estimate in-combination concentrations or deposition rates within the SAC.
Port 6: permitted development rights for B1/B2/B8	At the time of assessment there are no current proposals for development of Port 6. Recent developments of Port 5 and Port 7 have highlighted that it cannot be assumed the final use of this plot would be B1/B2/B8. Based on previous modelling (based on the development of the site as B1/B2/B8) the high-level consideration of potential impacts has identified that significant increases in traffic flows will trigger need for HRA screening.
Port 7: permitted development rights for B1/B2/B8	Port 7 has been leased to UK Oil and Gas PLC for an energy storage facility (no significant increases in traffic flows predicted). If this plot was modelled assuming B1/B2/B8 uses, traffic flows (notably HGV movements) would be far greater than actual use leading to an inaccurate modelling outcome which would over estimate in-combination concentrations or deposition rates within the SAC.
Landside aquaculture: construction of a warehouse building for aquaculture, producing 200-300 tonnes of fish, on a site measuring 135m x 37m (application references: WP/14/01033/OUT and WP/16/00150/RES)	This element has been excluded from the in-combination assessment as planning permission for the identified use has lapsed. The site is being marketed for a similar use but, as yet, there is no identified user and no details or timeframe for any future development on this site. Based on previous modelling (based on the consented use) the high-level consideration of potential impacts has identified that significant increases in traffic flows will trigger need for HRA screening.
2010 Harbour Revision Order	All projects identified in the 2010 HRO have been excluded as none of the identified elements will lead to significant increases in traffic flows across the A354 once completed. It is considered highly unlikely that these elements will lead to in-combination effects from traffic emissions during the construction period.
Inert Landfill and Waste Management Facility at Coombefield Quarry North, Portland (P/DCC/2021/04835)	This application was seeking an extension of time for an existing operation based on the Isle of Portland. The HGV flows across the A354 are already a part of the baseline for the in-combination assessment. As the in-combination assessment made no allowance for the existing operation ceasing to operate (the HGV movements were not removed from the baseline calculations), the in-combination assessment already includes the permitted traffic movements.

Table 16: Projects evaluated but excluded from in-combination assessment

- 7.8 Any of the remaining development under the 1997 Portland Harbour Revision Order has the potential to lead to increases in the number of HGVs using the A354. The previous round of air quality modelling undertaken in June 2021 by Fichtner (submitted as appendix 3.1 of the ES Addendum August 2021), which included predicted traffic flows associated with both the 1997 and 2010 HRO works, has indicated that large increases in HGV flows will lead to an increase in ammonia concentrations and nitrogen deposition within 200m of the A354.
- 7.9 As such, it is expected that any project covered under the 1997 Portland Harbour Revision Order will require screening for potential impacts relating to emissions from traffic (HGV and non-HGV) in relation to Chesil and the Fleet SAC.

- 7.10 Portland Harbour Authority Limited (acting in its role as a competent authority under the Conservation of Habitats and Species Regulations 2017, as amended) has written to Dorset Council on two occasions in order to clarify the position regarding the Harbour Revision Orders. On the first occasion (letter dated 6 May 2022) it confirmed it *“has discharged its duties as a Competent Authority under the Regulations in the past and will continue to do so in the future, in relation to any HRO development or otherwise”*.
- 7.11 In order to further clarify the position, Portland Harbour Authority Limited provided a second confirmation (letter dated 20 October 2022), largely to address the remaining development facilitated under the 1997 Portland Harbour Revision Order (i.e. the potential projects excluded above). The letter confirms, in relation to the remaining development under the 1997 Order that *“the power to carry out such works results in potential for a range of development that cannot be specified in sufficient detail to amount to a plan or project within the meaning of the Conservation of Habitats and Species Regulations 2017”*. The letter further confirms *“Upon the drawing up of precise plans for a specific development to be formulated and approved in exercise of the 1997 Order powers it would be necessary to consider the interaction between the implementation of works authorised by the 1997 order with the Port Authority’s duties under the 2017 regulations.”*
- 7.12 This approach set out by Portland Harbour Authority as one of the relevant competent authorities is further validated by the statements made recently in the House of Commons and the House of Lords on 20 July 2022. The DEFRA Secretary of State and the Under Secretary of State then confirmed that *“[t]he Habitats Regulations Assessment provisions apply to any consent, permission, or other authorisation, this may include post-permission approvals; reserved matters or discharges of conditions.”* This put beyond any doubt that a later decision relating to a development that was previously considered and consented (whether or not subject to appropriate assessment at the time), that would still need to be subject to appropriate assessment when it is subsequently considered.¹
- 7.13 Dorset Council (as the Competent Authority for the ERF) is therefore in possession of a written confirmation from Portland Harbour Authority Limited (as a competent authority in relation to future development facilitated under the 1997 Portland Harbour Revision Order) that should such, as yet unimplemented, projects be brought forward, then Portland Harbour Authority Limited considers that these future projects would require screening for potential impacts relating to emissions from traffic (HGV and non-HGV) in relation to Chesil and the Fleet SAC.
- 7.14 As a result the potential impacts relating to emission from traffic (HGV and non-HGV) for these, as yet unimplemented, projects should not form part of any in-combination assessment in relation to the ERF at this time.
- 7.15 Further, Portland Harbour Authority have confirmed that long term leases have been signed with UK Oil and Gas for development of an energy storage facility on areas “Port 5” and “Port 7” (as referred to above in table 16) that will not involve a significant increase in road movements.²

¹ See [Written statements - Written questions, answers and statements - UK Parliament](#) –

² [Future hydrogen-ready energy storage project - 07:00:06 30 May 2022 - UKOG News article | London Stock Exchange](#)
<https://www.dorsetecho.co.uk/news/20236758.business-secretary-welcomes-proposed-gas-storage-facility-portland/>

- 7.16 It should be noted that the previous air quality modelling undertaken in June 2021 by Fichtner did not assume areas “Port 5” and “Port 7” would be used as an energy storage facility. The June 2021 modelling concluded (based on the assumptions used at the time of B1/B2/B8 uses of “Port 5” and “Port 7”) that projects associated with these plots would lead to a sustained increase in HGV traffic flows along the A354 that would further increase rates of nitrogen deposition and concentrations of ammonia close to the A354. Given the different uses contractually ascribed to these plots, the assumed traffic flows from the remaining HRO projects in the June 2021 modelling were higher than would now be the case.
- 7.17 As a result the outputs of the June 2021 modelling work are already out-of-date. This highlights the uncertainty involved in trying to assess impacts associated with unimplemented elements of the HROs at this point in time.
- 7.18 Portland Harbour Authority is a competent authority as set out in the Habitats Regulations 2017 (as amended). The remaining developments facilitated under the two Harbour Revision Orders, but not yet undertaken, may require planning permission or reliance on permitted development rights. Under Regulation 63 of the Habitat Regulations 2017 (as amended) if the implementation of any elements of the HRO’s require a consent, permission or other authorisation then the plan or project would require screening for likely significant effects and potentially appropriate assessment.

Chesil and the Fleet SAC - in-combination assessment of the impacts of ammonia

Ammonia concentrations

- 7.19 AQC’s (2020) *Ammonia Emissions from Roads for Assessing Impacts on Nitrogen-sensitive Habitat* identifies both vehicles with petrol engines and diesel engines as emitters of ammonia (although the process of ammonia production is different between the engine types). The report refers to research by Cape et al (2004) and Marner et al (2018). Cape et al (2004) measures the effects of traffic emissions of ammonia on roadside concentrations along a transect 10m from roads. Marner et al (2018) carried out additional monitoring using a network of analysers over a larger transect out to 105 m from the road. Both studies highlight the elevated ammonia concentrations close to roadside due to emissions from traffic.
- 7.20 Background concentrations of ammonia available via APIS are shown as a gridded average at either 5km² or 1km². The contribution from road traffic is averaged across the grid so for Chesil and the Fleet SAC the spatial distribution of emissions close to road (elevated concentrations close to road edge compared to areas further away from the road) is not captured in the APIS data.
- 7.21 When assessing the in-combination effects of increased concentrations of ammonia it is important to recognise that, as the work by AQC shows, roadside concentrations of ammonia will have been much higher than those shown as background concentrations on APIS, with areas of the SAC closest to the road edge experiencing the highest concentrations.
- 7.22 It is for this reason that site specific modelling of emissions from road traffic has been undertaken by Fichtner for this scheme. The baseline scenario in the modelling represents the current concentrations of ammonia close to roadside. Higher

concentrations of ammonia close to road edge will have been a feature along the A354 since the Chesil and the Fleet was designated as a SAC.

Assessment of in-combination impacts of ammonia (NH₃)

- 7.23 Table 9 in section 6 shows the concentrations of ammonia recorded across Chesil and the Fleet SAC from 2006 to 2019. This background information is reproduced from data available on APIS.
- 7.24 Table 17 below shows the results of the in-combination air quality modelling for NH₃ concentrations along the A354. The table clearly shows that the critical level for NH₃ is not exceeded at the roadside and concentrations fall rapidly to be below 70% of the critical level within 4m of the roadside.

Annex I Habitat	Sensitive to NH ₃ concentrations	AQ objective	In-combination
Coastal lagoon	The critical level for all vegetation types is 3 µg/m ³ (annual mean).	Maintaining, as necessary, the concentrations and deposition of air pollutants to at, or below, the site-relevant critical levels given on the APIS website	Concentrations of ammonia are below critical level of 3 µg/m ³ . Concentrations fall to below 70% of critical level within 4m of the roadside.
Perennial vegetation of stony banks	The critical level for most vegetation types is 3 µg/m ³ (annual mean). A critical level of 1 µg/m ³ (annual mean) is considered more appropriate to specific MC5 grassland communities.		Concentrations of ammonia are below critical level of 3 µg/m ³ . Concentrations fall to below 70% of critical level within 4m of the roadside. Concentrations of ammonia are below critical level of 1 µg/m ³ within c45m of edge of carriageway. The lichen rich MC5 grasslands found west of Chesil Beach car park are over 50m from the A354.
Mediterranean and thermo-Atlantic halophilous communities	The critical level for all vegetation types is 3 µg/m ³ (annual mean).		Concentrations of ammonia are below critical level of 3 µg/m ³ . Concentrations fall to below 70% of critical level within 4m of the roadside.
Atlantic salt meadows	The critical level for all vegetation types is 3 µg/m ³ (annual mean).		Concentrations of ammonia are below critical level of 3 µg/m ³ . Concentrations fall to below 70% of critical level within 4m of the roadside.

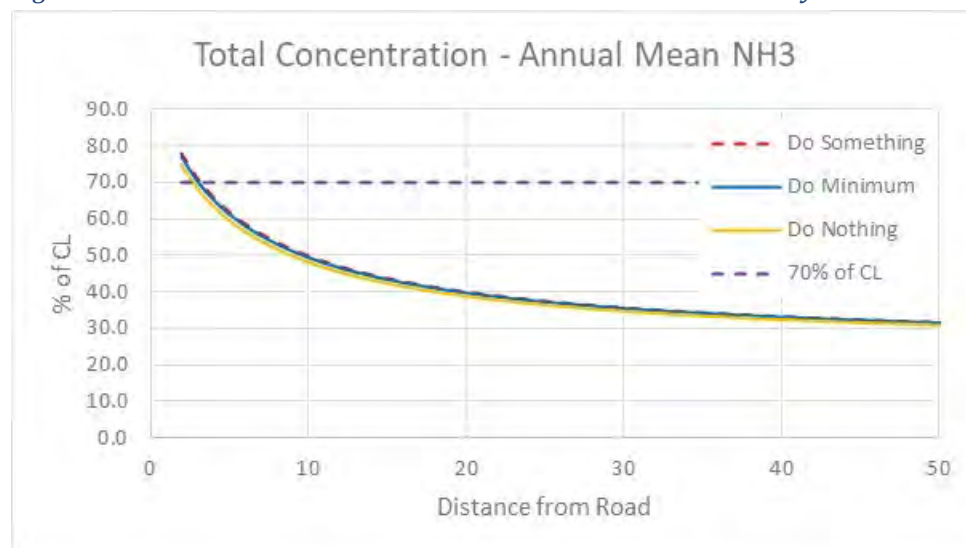
Table 17: In-combination modelling results – NH₃ concentrations

- 7.25 The air quality modelling that underpins the information in Table 16 can be found in Appendix 3.4 of the Second ES Addendum, January 2022, erratum version. Figure 11 to Figure 14 of that report relate to ammonia concentrations along the A354.
- 7.26 The modelling shows that alone the impact of the development (traffic and ERF) is negligible, with NH₃ predicted to be less than 1% of the relevant critical level within 1m of the edge of the carriageway. However, the cumulative growth in traffic flows along

the A354 in-combination with emissions from the development (traffic and ERF) will result in NH₃ impacts exceeding 1% of the critical level within c30m of the carriageway.

- 7.27 When the changes in NH₃ emissions related to the development added to the cumulative traffic growth associated with other plans and projects are modelled, it shows the critical level of NH₃ will not be exceeded. The effects of increased NH₃ concentrations are localised, with levels falling to below 70% of the critical level within 4m of edge of the carriageway.

Figure 14: Annual Mean Ammonia PEC – Chesil Beach - Analysis



Note: Impacts presented as % of critical level of 3 µg/m³

- 7.28 The addition of the emissions from the proposed development (traffic and ERF) does not significantly change the extent of these modelled impacts, indicating that consented plans and projects are making the greatest contribution to increased levels of NH₃ along the A354 corridor (see figure 6). In figure 6 the do-minimum modelling shows the effects of background emissions, traffic growth and cumulative projects listed in Table 14; the do-something modelling adds in the ERF-related emissions to the do-minimum modelling.
- 7.29 The modelling demonstrates that the in-combination ammonia concentrations based on the projects identified in Table 14 do not exceed the critical level set for the protection of vegetation. The supplementary advice on conserving and restoring site features, which accompanies the conservation objectives, sets an objective for air quality of: maintaining, as necessary, the concentrations and deposition of air pollutants to at, or below, the site-relevant critical loads or levels given on the APIS website. The air quality modelling demonstrates that this objective would continue to be met should consent for the ERF be granted.
- 7.30 The air quality modelling also shows that the critical level set for the protection of lower plants is not exceeded in those parts of the SAC where lichen-rich shingle grassland communities have been recorded during recent comprehensive field surveys. For those parts of the SAC the objective of maintaining concentrations of air pollutants below site-relevant critical levels would continue to be met should consent for the ERF be granted.

It is concluded that there would be no adverse effect on the integrity of the SAC from the ERF, in combination with other plans or projects, arising from the modelled increases in concentrations of ammonia within Chesil and the Fleet SAC.

Chesil and the Fleet SAC - in-combination assessment of the impacts of NOx

Trends in NOx emissions from traffic

- 7.31 As demonstrated in the AQC report *Ammonia Emissions from Roads for Assessing Impacts on Nitrogen-sensitive Habitats* the levels of NOx emissions from transport have fallen, with vehicles manufactured prior to the year 2000 emitting vastly more NOx than newer models. Government data shows a substantial fall in emissions of NOx from cars and HGVs between 1990 and 2020. Reductions were not noted in all sectors, with an increase in total NOx emissions from vans of 59% between 2009 and 2019. Since 2010 NOx levels from traffic have largely stabilised (<https://www.gov.uk/government/statistics/transport-and-environment-statistics-autumn-2021>).
- 7.32 The wider UK trends would suggest that over the last 30 years the concentration of roadside NOx along the A354 will have declined significantly. The recent APIS data from 2014 onwards shows relatively minor variations in NOx concentrations across the majority of the SAC, which accords with a pattern of stabilising NOx concentrations at a national level.

Assessment of in-combination impacts of NOx

- 7.33 Table 8 in section 6 shows the concentrations of NOx recorded across Chesil and the Fleet SAC from 2014 to 2019. This background information is reproduced from data available on APIS.
- 7.34 Table 18 below shows the results of the in-combination air quality modelling for NOx concentrations along the A354. The table clearly shows that the critical level for NOx is not exceeded within 2m of the road edge and concentrations fall rapidly to be below 70% of the critical load within 7m of the roadside.

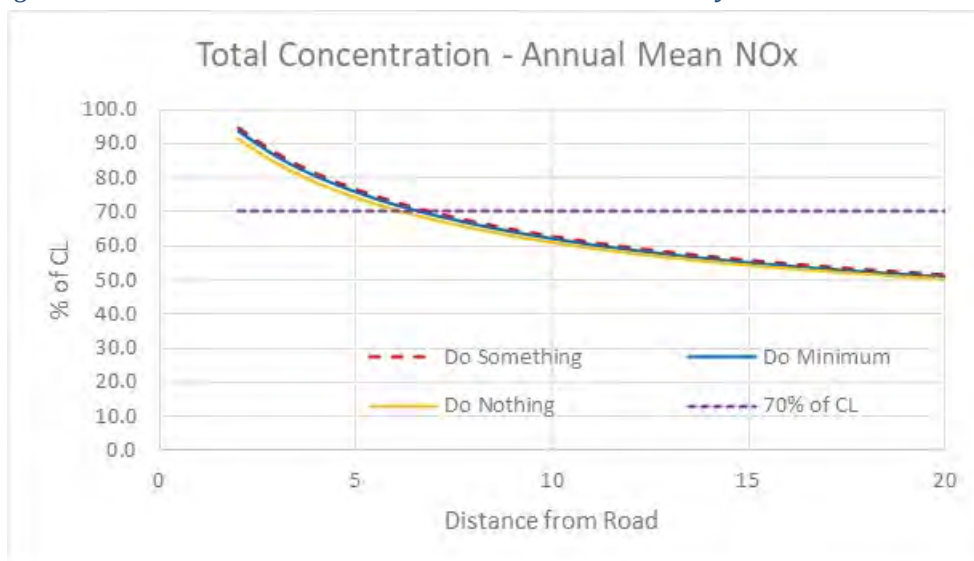
Annex I Habitat	Sensitive to NOx concentrations	AQ objective	In-combination
Coastal lagoon	The critical level for all vegetation types is 30 µg/m ³ (annual mean).	Maintaining, as necessary, the concentrations and deposition of air pollutants to at, or below, the site-relevant critical levels given on the Air Pollution Information System (APIS) website	Below critical level at 2m of roadside. Falling to below 70% of critical level within 7m of the roadside.
Perennial vegetation of stony banks	The critical level for all vegetation types is 30 µg/m ³ (annual mean).		Below critical level at 2m of roadside. Falling to below 70% of critical level within 7m of the roadside.
Mediterranean and thermo-Atlantic halophilous communities	The critical level for all vegetation types is 30 µg/m ³ (annual mean).		Below critical level at 2m of roadside. Falling to below 70% of critical level within 7m of the roadside.
Atlantic salt meadows	The critical level for all vegetation types is 30 µg/m ³ (annual mean).		Below critical level at 2m of roadside. Falling to below 70%

Annex I Habitat	Sensitive to NOx concentrations	AQ objective	In-combination
			of critical level within 7m of the roadside.

Table 18: In-combination modelling results – NOx concentrations

- 7.35 The air quality modelling that underpins the information in Table 9 can be found in Appendix 3.4 of the Second ES Addendum, January 2022, erratum version. Figure 7 to Figure 10 of that report relate to NOx concentrations along the A354.
- 7.36 With the changes in NOx emissions related to the development added to the cumulative traffic growth associated with other plans and projects, the concentration of NOx close to the carriageway will be c90% of the critical level. The impacts of NOx emissions are localised, with levels falling to below 70% of the critical level within 7m of the road. (see Figure 10 below). The addition of the emissions from the proposed development (traffic and ERF) does not significantly change the extent of these modelled impacts, indicating that consented plans and projects are making the greatest contribution to increased levels of NOx along the A354 corridor (see figure 5). In figure 5 the do-minimum modelling shows the effects of background emissions, traffic growth and cumulative projects listed in Table 15; the do-something modelling adds in the ERF-related emissions to the do-minimum modelling.

Figure 10: Annual Mean NOx PEC – Chesil Beach - Analysis



Note: Impacts presented as % of critical level of 30 µg/m³

- 7.37 The modelling demonstrates that the in-combination NOx concentrations based on the projects identified in Table 15 do not exceed the critical level set for the protection of vegetation. The supplementary advice on conserving and restoring site features, which accompanies the conservation objectives, sets an objective for air quality of: maintaining, as necessary, the concentrations and deposition of air pollutants to at, or below, the site-relevant critical loads or levels given on the APIS website. The air quality modelling demonstrates that this objective would continue to be met should consent for the ERF be granted.

It is concluded that there would be no adverse effect on the integrity of the SAC from the ERF, in combination with other plans or projects, arising from the modelled increases in concentrations of NOx within Chesil and the Fleet SAC.

Chesil and the Fleet SAC - in-combination assessment of impacts of nitrogen deposition

Background concentrations

7.38 Table 12 in section 6 (reproduced here as table 19) shows the rate of nitrogen deposition recorded across Chesil and the Fleet SAC from 2006 to 2019. This background information is reproduced from data available on APIS.

Year	Range across SAC (kg/N/ha/yr)	Comments	Range along A354 (kg/N/ha/yr)
2006	8.5 – 19.5	5km ² resolution. Highest levels around West Bay. Higher background values in grid squares inland of Fleet.	8.5-10.1
2010	8.3-18.6	5km ² resolution. Highest levels around West Bay. Higher background values in grid squares inland of Fleet.	8.5 – 10.2
2014	8.4 – 16.1	5km ² resolution. Highest levels around West Bay and Abbotsbury. Higher background values in grid squares inland of Fleet.	8.5 – 9.9
2018	8.4 - 16.4	5km ² resolution. Highest levels around West Bay. Higher background values in grid squares inland of Fleet.	8.4 – 10.4
2019	8.7- 10.1	1km ² resolution.	8.7 – 9

Table 19: Background rates of nitrogen deposition across the SAC (reproduced from table 12)

7.39 The data from APIS shows that between 2006 and 2018 the rate of nitrogen deposition across the site has declined significantly where the highest rates of nitrogen deposition occur, but deposition rates remain broadly stable in areas of the SAC where deposition rates are lower. The data from 2019 presented at 1km resolution suggests background levels of nitrogen deposition across the SAC may be lower that indicated by the earlier deposition rates shown at lower resolution.

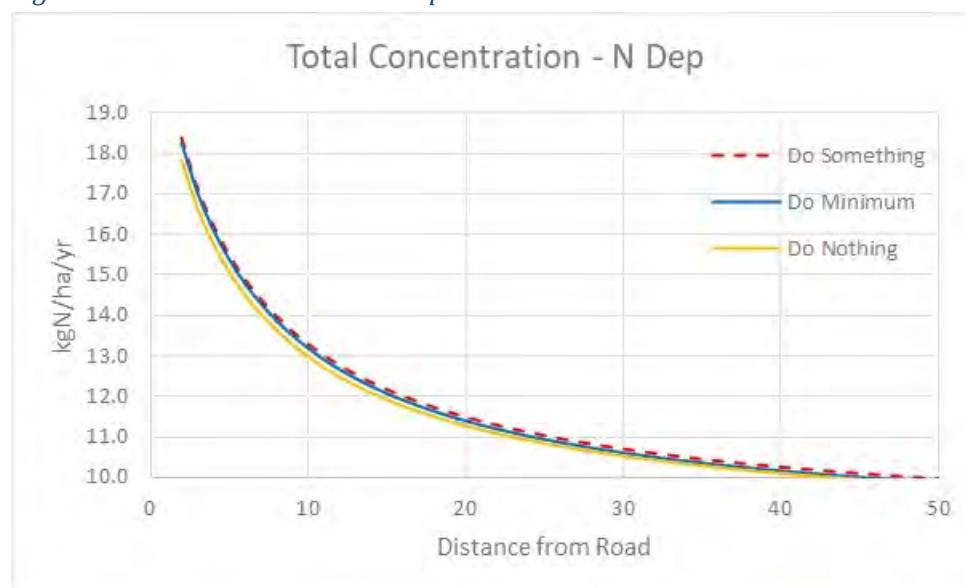
7.40 It is considered likely that the earlier data, where nitrogen deposition was mapped at 5km resolution, was probably overestimating nitrogen deposition rates in some parts of the SAC. This would be a particular issue where a 5km square encompassed largely farmland and urban areas but also covered a small area of the SAC. For these squares the gridded average deposition rate may be higher than actually occurs within the SAC. The source attribution data on APIS shows that over 30% of total nitrogen deposition within the site is from livestock. This would support the conclusion that along the landward side of the SAC background nitrogen deposition figures from APIS between 2006 and 2018 may not be representative.

7.41 Three key points are relevant for the assessment of in-combination effect of nitrogen deposition:

- Across the whole SAC the lower end of the critical load range for perennial vegetation of stony banks has been exceeded over the period 2006 to 2019.
- The second is that along the A354 background rates of nitrogen deposition have remained largely unchanged during the period 2006-2018. The more refined mapping available for 2019 shows a lower rate of nitrogen deposition in this area than previously recorded.
- The historic underestimation of the contribution of ammonia from road traffic. The underestimation highlighted in the 2020 AQC report (see paragraphs 7.19-7.21) will have also led to an underestimation of rates of nitrogen deposition from roads within the mapped background dataset. The baseline information on APIS presented in Table 9 will have underestimated nitrogen deposition along the A354 corridor.

7.42 The more detailed air quality modelling undertaken by Fichtner (see Table 6 of Appendix 3.4 of the Second ES Addendum, January 2022, erratum version) highlights that nitrogen deposition close to road edge is higher than deposition rates further away from road edge where the contribution directly from traffic emission is reduced. This table and accompanying graphs (Figures 15 to 19) show that, under current conditions (the do nothing scenario) nitrogen deposition is between 17.83kg/N/ha/yr and 13kg/N/ha/yr within 10 metres of the road (see figure 18 below). The current background rate of nitrogen deposition for 1km² along the A354 (gridded average) given on APIS is 8.7-9kg/N/ha/yr (2018-2020).

Figure 18: Annual mean N Dep PEC – Chesil Beach - Zoomed



Condition of Annex I habitats along the A354 corridor

- 7.43 As noted in Paragraph 6.105, the APIS website states that the Annex I habitat annual vegetation of drift lines is not sensitive to eutrophication and no critical load for this habitat is given. The APIS website gives a critical load of 20-30kg/N/ha/yr for Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*), Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruitcosi*) and coastal lagoons (a priority habitat). A critical load of 8-15kg/N/ha/yr is given for perennial vegetation of stony banks.
- 7.44 Along the A354 corridor the background rates of nitrogen deposition for Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*), Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruitcosi*) and coastal lagoons do not exceed the

lower end of the critical load range for these habitats. As shown in Table 18, the lower end of the critical load range for perennial vegetation of stony banks is already exceeded.

- 7.45 A range of different habitats comprise the Annex I habitat perennial vegetation of stony banks and it is important to consider the condition of the habitats within 200m of the A354 when evaluating the in-combination effects of increased nitrogen deposition. The habitats present include pioneer shingle, shingle grassland and saltmarsh communities.
- 7.46 Background information on the vegetation communities found within 200m of the A354 is set out in paragraphs 6.97-6.102 and Tables 10 and 11. The distribution of the vegetation communities is shown in Figures 3 and 4.
- 7.47 The evidence from field surveys undertaken by Footprint Ecology and field visits by Terence O’Rourke confirm that vegetation communities that fall within the definition of the Annex I habitat perennial vegetation of stony banks are continuing to establish along the A354 corridor. This would suggest that current rates of nitrogen deposition are not adversely impacting the ability of the site to sustain the complex of habitats for which it was designated.

Assessment of in-combination impacts of nitrogen deposition

- 7.48 Table 20 below shows the results of the in-combination air quality modelling for nitrogen deposition along the A354. The table and accompanying figures clearly show that the lower end of the critical load range is not exceeded, even at the roadside, for habitats with the critical load of 20-30kg/N/ha/yr.
- 7.49 For perennial vegetation of stony banks the rate of nitrogen deposition will exceed 15kg/N/ha/yr within 7m of the roadside; it will fall below 10kg/N/ha/yr within c50m of roadside.

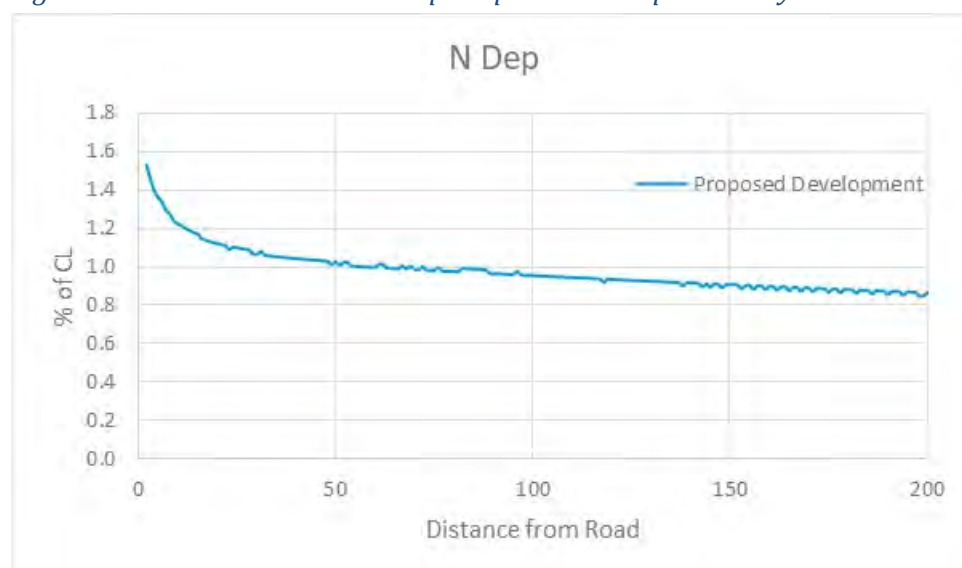
Annex I Habitat	Sensitive to N dep	AQ objective	In-combination
Coastal lagoon	20-30kg/N/ha/yr	Maintaining, as necessary, the concentrations and deposition of air pollutants to at, or below, the site-relevant critical loads given on the APIS website	Below lower end of critical load range.
Perennial vegetation of stony banks	8-15kg/N/ha/yr		Background already exceeded. Nitrogen deposition will exceed 15kg/N/ha/yr within 7m of roadside; it will fall below 10kg/N/ha/yr within c50m of roadside.
Mediterranean and thermo-Atlantic halophilous scrubs	20-30kg/N/ha/yr		Below lower end of critical load range.
Atlantic salt meadows	20-30kg/N/ha/yr		Below lower end of critical load range.

Table 20: In-combination modelling results – nitrogen deposition

- 7.50 The modelling shows that alone the impact of the development (traffic and emissions from the plant) will result in nitrogen deposition rates of more than 1% of the critical load within c50m of the edge of the carriageway (see figure 16 below). The highest rates of nitrogen deposition occur within 10m of the road edge where baseline levels are over 13kg/N/ha/yr (see figure 7). The greatest source of nitrogen deposition is NH₃ from road traffic emissions. In figure 7 the do-minimum modelling shows the effects of background nitrogen deposition, traffic growth and cumulative projects listed in Table

15; the do-something modelling adds in the ERF-related nitrogen to the do-minimum modelling.

Figure 16: Annual mean N Dep Proposed Development Only – Chesil Beach



Note: Impacts presented as % of CL 8 and include the contribution from nitrogen dioxide and ammonia emissions from traffic and the ERF

- 7.51 With the changes in nitrogen deposition related to the development added to the cumulative traffic growth associated with other plans and projects the additional nitrogen deposition will exceed 1% of the critical load of nitrogen over 200m from the edge of the carriageway. The addition of the emissions from the proposed development (traffic and ERF) does not significantly change the extent of these modelled impacts, indicating that consented plans and projects are making the greatest contribution to increased levels of nitrogen deposition along the A354 corridor.
- 7.52 It should be noted that the detailed air quality modelling produced by Fichtner for the A354 corridor highlights that baseline levels of nitrogen deposition (when allowing for the spatial variation due to the presence of the A354) are far higher than the gridded average for the relevant 5km or 1km grid square provided by APIS. It is likely that rates of nitrogen deposition along the road corridor have exceeded the upper end of the critical load range for many years close to the A354. The findings of the Footprint Ecology survey show that a high proportion of species found in the SD1 communities close to the A354 are species associated with fertile sites (see paragraphs 6.108-6.110).
- 7.53 The higher levels of nitrogen deposition this area of the site experiences does not appear to be driving any significant changes in the species communities in this part of the SAC. The Groome and Crowther and Footprint Ecology vegetation surveys found little difference in the NVC communities along the A354 (see Tables 10 and 11). The work published by Caporn *et al*, 2016 highlights that for a range of vegetation communities the incremental effect of long-term nitrogen deposition on species richness reduces as deposition levels increase above the upper end of the critical load. For sand dune and heathland habitats increased nitrogen deposition can lead to increases in graminoid cover that could alter the species composition of certain habitat types.

- 7.54 When considering species-richness in sand dune habitats the Caporn *et al*, 2016 study found that where background levels of nitrogen deposition are 10kg/N/ha/yr. increases in nitrogen deposition of between 0.5 and 0.6kg/N/ha/yr. are required to reduce measured species richness by one species. This amount of nitrogen needed increases of between 0.9 and 1.1kg/N/ha/yr. where background nitrogen deposition is 15kg/N/ha/yr. and of between 1.3 and 2.0kg/N/ha/yr. where background nitrogen deposition is 20kg/N/ha/yr. The pattern of increasing large amounts of additional nitrogen deposition required to reduced species richness by one species as background levels of nitrogen deposition increase is also common to upland heath, lowland heath and acid grassland habitats.
- 7.55 Table 6 of the of Appendix 3.4 of the Second ES Addendum, January 2022, erratum version) shows that the maximum rate of nitrogen deposition from the in-combination traffic flows and plant emissions is 0.53kg/N/ha/yr. This rate occurs 2 metres from the road edge where background nitrogen deposition rates are currently 17.83kg/N/ha/yr. On the western side of the A354 this 2m zone is formed by the footpath. Nitrogen deposition rates fall to below 0.4kg/N/ha/yr within 5m of the road edge, where background levels of nitrogen deposition are currently 15.1kg/N/ha/yr.
- 7.56 These rates of additional nitrogen deposition are significantly below the rates of additional nitrogen deposition required to reduce measured species richness by one species in sand dune habitats identified by Caporn et al. Increases in deposition rates of 0.9-1.1kg/N/ha/yr are identified as being necessary where background nitrogen deposition is 15kg/N/ha/yr.
- 7.57 Additional nitrogen deposition from the in-combination traffic flows and plant emissions falls to less than 50% of the lower end of the range (0.5-0.6kg/N/ha/yr) given in Caporn et al for sand dune habitat where the background level of nitrogen deposition is 10kg/N/ha/yr. A background level of 10kg/N/ha/yr is not reached until 45m from the roadside, where the total contribution is an additional 0.15kg/N/ha/yr.
- 7.58 It should be noted that the in-combination modelling includes a process contribution from the ERF (0.07kg/N/ha/yr). This is the highest modelled deposition rate from the ERF within the SAC and would only occur over a very small part of the SAC; further along the A354 (towards Weymouth) the process contribution would decline, reducing the impact of nitrogen deposition as distance from the ERF increased. Applying the figures in Table 6 along the whole length of the A354 within the SAC will lead to an over-estimation of the total nitrogen deposition across much of the 200m corridor.
- 7.59 It should also be recognised that the APIS dataset does not source apportion the nitrogen deposition. Therefore, it is not possible to remove the road contribution modelled from the background figures. As such the PEC is likely to be an overestimation for the PEC as the baseline contribution from road sources will be double counted.
- 7.60 The site-specific modelling along the A354 has shown high baseline levels of nitrogen deposition occur in this part of the site irrespective of the proposed development. Current rates of nitrogen deposition exceed the upper end of the critical load range and have almost certainly been towards the upper end of the critical load range for perennial vegetation of stony banks for many years along the A354 corridor. Modelling by Fichtner suggests current background rates of nitrogen deposition are in the region of 10-17kg/N/ha/yr within 50m of the roadside.
- 7.61 There is no published evidence to suggest that nitrogen deposition at the level predicted to occur from the ERF is sufficient to change species richness in a range of

- plant communities. The ability of pioneer SD1 communities to develop, as reported in the Footprint report and observed during a site visit in June 2021, would indicate that the localised high levels of nitrogen deposition occurring in this part of the SAC are not having an adverse effect on the integrity of the site, with SD1 vegetation communities able to form when conditions are suitable.
- 7.62 Natural England have stated in their letter dated 24 August 2022 *“In conclusion the effects of nutrient enrichment or toxic air pollutants are not apparent in the vegetation despite apparent current exceedances”*. The letter also concludes that the report: Summary of the status of Rare and Scarce Plants either side of Portland Beach Road: Chesil and the Fleet SAC (DERC, 2022) demonstrates *“the report is considered a robust assessment of the rare and scarce plants which are important to both the national and international designations. The report does not indicate that current and past level of air pollution can be concluded to have had a significant effect on the range and abundance of the plants over and above the other factors outlined above”*.
- 7.63 The conservation objective for Chesil and the Fleet SAC aim (along with other objectives) to ensure that the integrity of the SAC is maintained or restored as appropriate, and ensure that the site contributes to achieving the Favourable Conservation Status of its qualifying features, by maintaining or restoring:
- The structure and function (including typical species) of qualifying natural habitats
- 7.64 The supplementary advice on conserving and restoring site features, which accompanies the conservation objectives, sets an objective for air quality of: maintaining, as necessary, the concentrations and deposition of air pollutants to at, or below, the site-relevant critical loads or levels given on the APIS website.
- 7.65 The in-combination assessment identifies that, should all projects listed in Table 14 go ahead and the ERF be consented, there would be an increase in the rate of nitrogen deposition within the SAC. The modelling shows that the projects listed in Table 15 are the biggest contributors to the increase in nitrogen deposition within the SAC. Background levels of nitrogen deposition fall to levels comparable with those across the whole SAC within 40 metres of the roadside. Within 40m of the roadside additional nitrogen deposition would not reach rates that are likely to result in the loss of additional species from the existing vegetation communities.
- 7.66 It is considered highly probable that current rates of nitrogen deposition associated with traffic are at or close to peak levels and can be expected to reduce in future. Although still a small element of the overall market, sales of electric and hybrid cars are increasing. At the end of July 2022 over 930,000 plug-in vehicles had been registered in the UK (both battery and hybrid). There has been a significant increase in the volume of new electric and hybrid cars registered in the UK: in 2015 they comprised 1.1% of new cars registered, increasing to 3.2% in 2019 and 10.7% in 2020 (<https://www.nextgreencar.com/electric-cars/statistics/>).
- 7.67 The Government policy of banning the sale of new petrol and diesel cars and vans from 2030, along with the requirement for all new cars and vans to be fully zero emission at tailpipe from 2035, is likely to accelerate the transition away from diesel and petrol vehicles.
- 7.68 Work undertaken by AQC modelling future air quality scenarios concluded that the forecast reductions in NOx emissions more than offset the forecast increase in ammonia emissions such that total roadside nitrogen deposition will continue to fall (even in the absence of reductions in emissions from other sectors). In the scenario

modelled (see Figure 19 in the AQC report *Ammonia Emissions from Roads for Assessing Impacts on Nitrogen-sensitive Habitats*) it was assumed there would be no traffic growth over the period 2017 to 2030 and that most of the predicted improvements occur prior to 2024 (deposition fluxes are predicted to increase marginally between 2028 and 2030).

- 7.69 It is also relevant that not all the projects listed in Table 14 are fully consented, as some are outline permissions that will require future reserved matters applications (such as Royal Manor Arts College and the Heliport). On 20 July 2022 George Eustice, The Secretary of State for Environment, Food and Rural Affairs, presented a written ministerial statement in the House of Commons (HC Deb, 20 July 2022, cWS). Although not directly associated with air quality the statement does confirm the Government position that *“Habitat Regulations Assessment provisions apply to any consent, permission, or other authorisation, this may include post-permission approvals; reserved matters or discharge of conditions”*. The statement also notes that a Habitats Regulations Assessment is required in situations including, but not limited to *“where the environmental circumstances have materially changed as a matter of fact and degree, so that development that previously was lawfully screened out at the permission stage cannot now be screened out”*.
- 7.70 It would appear that some of the plans and projects listed in the in-combination assessment for the ERF would now require a Habitat Regulation Assessment if post-permission approvals; reserved matters or discharge of conditions are required. The air quality modelling undertaken for the ERF has clearly identified these projects are making a significant contribution to increases in both nitrogen deposition and ammonia concentrations along the A354 corridor. As the Competent Authority, Dorset Council may consider the information provided in this in-combination assessment shows the environmental circumstances have materially changed as a matter of fact and degree so that development that previously was lawfully screened out at the permission stage cannot now be screened out.
- 7.71 At the present time, the stable nature of the communities along the A354, as evidenced by vegetation surveys, would indicate that the plant communities associated with vegetated shingle remain largely unchanged since the designation of the site and the development of the ERF would not change this position.
- 7.72 The insignificant increase in nitrogen deposition predicted as a result of the ERF is not considered to prevent the long-term objective of reducing nitrogen deposition rates to levels at, or below, the critical load for perennial vegetation of stony banks. Given that traffic is the major contributor to nitrogen deposition along the A354, and noting the limited additional impact of the ERF traffic, reductions in nitrogen deposition can only realistically be achieved through the adoption of strategic measures by the local authorities.
- 7.73 Air quality modelling undertaken as part of the in-combination assessment highlights the need for the collection of robust site-specific data relating to baseline air quality within those parts of the SAC close to the A354 to inform future decision making. Although there is no evidence at the present time that vegetation communities close to the road are being adversely affected (indeed there is good evidence to suggest shingle communities can re-establish very close to the A354 after disturbance), the collection of data from the site would be very useful in understanding the need for future assessments.

It is concluded that there would be no adverse effect on the integrity of the SAC from the ERF, in combination with other plans or projects, arising from the modelled increases in nitrogen deposition within Chesil and the Fleet SAC.

Chesil and the Fleet SAC - conclusions

- 7.74 The conclusions of the revised in-combination assessment remain unchanged from the January 2022 Updated SHRA. The conclusions are:

It is concluded that there would be no adverse effect on the integrity of the SAC from the ERF, in combination with other plans or projects, arising from the modelled increases in concentrations of NH₃ within the SAC.

It is concluded that there would be no adverse effect on the integrity of the SAC from the ERF, in combination with other plans or projects, arising from the modelled increases in concentrations of NO_x within the SAC.

It is concluded that there would be no adverse effect on the integrity of the SAC from the ERF, in combination with other plans or projects, arising from the modelled increases in nitrogen deposition within the SAC.

- 7.75 In-combination projects have been reconsidered, including those elements of the 1997 and 2010 Harbour Revision Orders that have not yet been implemented. The reconsideration of the plans and projects set out in Table 14 and included in the in-combination assessment has also identified a clear opportunity for the Competent Authority to reassess some of these applications in light of the evidence of significant contributions to nitrogen deposition from these projects as highlighted in the air quality modelling undertaken for the ERF.
- 7.76 It is considered highly likely that in the next 5 years some form of strategic air quality monitoring and management plan is likely to be required by the Competent Authority to understand current baseline levels of nitrogen deposition and pollutant concentrations and implement more targeted vegetation monitoring, in order to understand the implications for the site of any further increases in concentrations or deposition rates of NO_x, NH₃ and nitrogen. This work will help inform future local plans and development decisions. Depending on the findings, site management may be required at a later date.

Isle of Portland to Studland Cliffs SAC - emissions from traffic (NO_x)

- 7.77 The modelling shows that alone the impact of the development (traffic and emissions from the plant) is negligible, with NO_x only exceeding 1% of the relevant critical level within c20m of the edge of the carriageway. The cumulative growth in traffic flows in-combination with emissions from the development (traffic and ERF) show little perceptible change in NO_x concentrations.
- 7.78 APIS shows that background levels of NO_x around the Port already exceed the critical level set for the protection of ecosystems. With the changes in NO_x emissions related to the development added to the cumulative traffic growth associated with other plans and projects, there will be an increase in NO_x concentrations above 1% of the critical level of NO_x within a zone c8m wide on the northern boundary of the SAC (accounting for the fact the SAC boundary is located c12m from road edge), beyond this zone the contribution will fall to below 1% of the critical level.

- 7.79 As already discussed, NO_x concentrations across the SAC south of the Port are considered highly likely to reduce as the distance from emission sources at the Port and port roads increases. This conclusion is supported by the far lower background levels of NO_x recorded in the grid squares immediately to the east, south and west of the Port. As NO_x concentrations are expected to be lower south of the Port (within the SAC) no adverse impacts on site integrity, relating to the Isle of Portland to Studland Cliffs SAC, are predicted from the small increase in NO_x levels identified by the modelling.

It is concluded that there would be no adverse effect on the integrity of the SAC from the ERF, in combination with other plans or projects, arising from the modelled increases in concentrations of NO_x within the Isle of Portland to Studland Cliffs SAC.

Isle of Portland to Studland Cliffs SAC - emissions from traffic (NH₃)

- 7.80 The modelling shows that alone the impact of the development (traffic and emissions from the plant) will result in an increase in NH₃ above 1% of the relevant critical level (1µg/m³ set for lichens and bryophytes) for a zone of c30m within the SAC. The increase is less than 1% of the relevant critical load for non-lichen sensitive communities (3µg/m³) within the SAC. The cumulative growth in traffic flows in this area in-combination with emissions from the development (traffic and stack) show a similar pattern.
- 7.81 The critical level for NH₃ (either at 1µg/m³ or 3µg/m³) is not exceeded within the SAC with the in-combination traffic factored in. No adverse impacts on site integrity relating to the Isle of Portland to Studland Cliffs SAC are predicted.

It is concluded that there would be no adverse effect on the integrity of the SAC from the ERF, in combination with other plans or projects, arising from the modelled increases in concentrations of NH₃ within the Isle of Portland to Studland Cliffs SAC.

Isle of Portland to Studland Cliffs SAC - Emissions from traffic (nitrogen deposition)

- 7.82 The modelling shows that alone the impact of the development (traffic and emissions from the plant) will result in nitrogen deposition rates of below 1% of the critical load kg/N/ha/yr within the SAC. The greatest source of nitrogen deposition is NH₃ from road traffic emissions.
- 7.83 When the changes in nitrogen deposition related to the development added to the cumulative traffic growth associated with other plans and projects, slightly increases the rate of nitrogen deposition within the SAC. However, the lower end of the critical load range given for nitrogen deposition on calcareous grassland habitat within the SAC will not be exceeded. No adverse impacts on site integrity relating to the Isle of Portland to Studland Cliffs SAC are predicted.

It is concluded that there would be no adverse effect on the integrity of the SAC from the ERF, in combination with other plans or projects, arising from the modelled increases in nitrogen deposition within the Isle of Portland to Studland Cliffs SAC.

Isle of Portland to Studland Cliffs SAC - assessment of in-combination effects of dust

- 7.84 Ocean Views, Hardy Complex, Castle Road, Portland (phase 2) is the redevelopment of former naval accommodation block into 157 apartments, together with the development of 191 new build homes, with associated car parking (application

reference: 02/00703/FUL, as amended). The consented works are likely to generate dust during the construction phase. However, dust generation is likely to be minimised through the adoption of industry best-practice measures. The distance between this site and the location for the ERF means any fugitive dust created will be deposited on different parts of the SAC. These dust accumulations are not considered likely to act in-combination and no adverse impacts on site integrity are anticipated.

It is concluded that there would be no adverse effect on the integrity of the SAC from the ERF, in combination with other plans or projects, arising from dust within the Isle of Portland to Studland Cliffs SAC.

Chesil and the Fleet SAC, Chesil Beach and the Fleet SPA/Ramsar and Portland to Studland SAC - assessment of in-combination effects of water pollution

- 7.85 Both Project Osprey and Project Inner Breakwater and Camber Area Alterations have the potential to result in pollution entering Portland Harbour during construction and operation. As with this project, it is anticipated works undertaken under the Harbour Revision Orders will follow industry best practice to reduce the risk of pollutants entering water bodies. Any pollution incident is likely to be localised in nature and the chances of similar events occurring at the same time on different sites at a sufficient scale to result in adverse impacts on site integrity are considered to be very small.

It is concluded that there would be no adverse effect on the integrity of the SAC from the ERF, in combination with other plans or projects, arising from water pollution within Chesil and the Fleet SAC, Chesil Beach and the Fleet SPA/Ramsar and Portland to Studland SAC.

8.0 Conclusion

- 8.1 The assessment of the application concluded that, in the absence of avoidance and mitigation measures, the project was likely to result in a significant effect on the Isle of Portland to Studland Cliffs SAC and Chesil and the Fleet SAC. This document sets out a shadow appropriate assessment for the Portland Energy Recovery Facility, in accordance with Regulation 63 of the Conservation of Habitats and Species Regulations 2017 (as amended).
- 8.2 The shadow appropriate assessment evaluated the mitigation measures; those embedded in the design of the facility and those where mitigation measures will need to be conditioned through any planning permission, to determine if these were sufficient to prevent adverse impacts on site integrity.
- 8.3 On the basis of the mitigation measures set out in this document it is concluded that the construction and operation of the Portland Energy Recovery Facility will not have an adverse effect on the integrity of the NSN sites assessed, either alone or in-combination with other plans and projects.
- 8.4 As the competent authority, Dorset Council is required to undertake its own independent appropriate assessment. The council can choose to adopt this document, following professional scrutiny to evaluate the evidence presented and examine the conclusions reached; or it can undertake its own appropriate assessment using the material provided as part of the planning application and any other relevant material from the applicant requested under Regulation 63.

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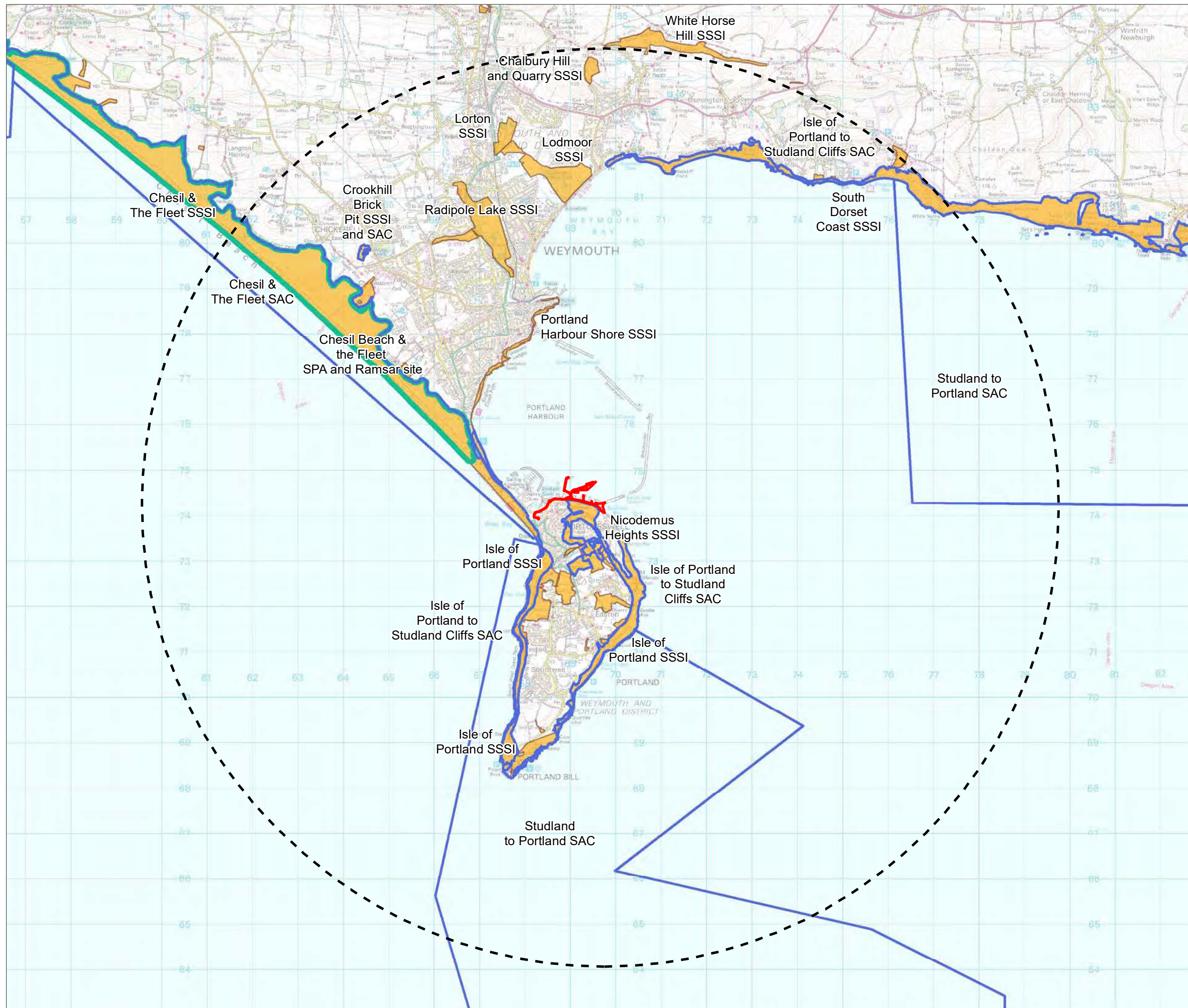
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- Site boundary
- 10km study area
- Special Area of Conservation
- Special Protection Area and Ramsar site
- Site of Special Scientific Interest

Portland ERF
Powerfuel Ltd

0 3,000 m

N

Figure 1: NSN sites

Dwg no/2627014/01	Revision
Status	25 June 2021
Scale: 1:80,000 @A3	Drawn by: JC Checked by: JP

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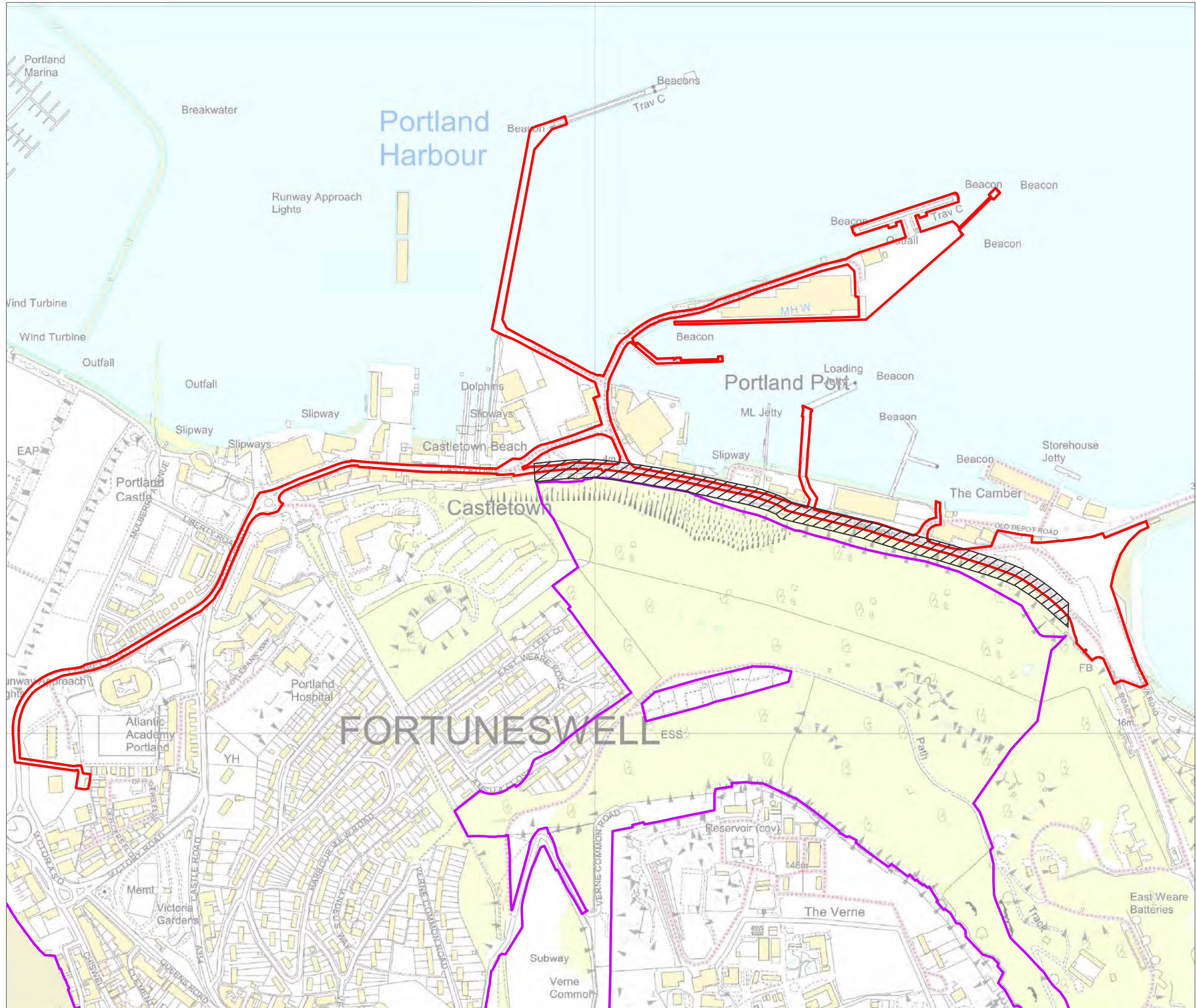
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-  Site boundary
-  Isle of Portland to Studland Cliffs Special Area of Conservation
-  Cumulative air quality impact zone (12.5m buffer)

Portland ERF
Powerfuel Ltd

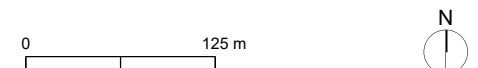


Figure 2: Zone of impact for cumulative emissions from Isle of Portland to Studland Cliffs SAC

Dwg no/2627014/02	Revision
Status	21 June 2021
Scale: 1:5,000 @A3	Drawn by: JC Checked by: JP

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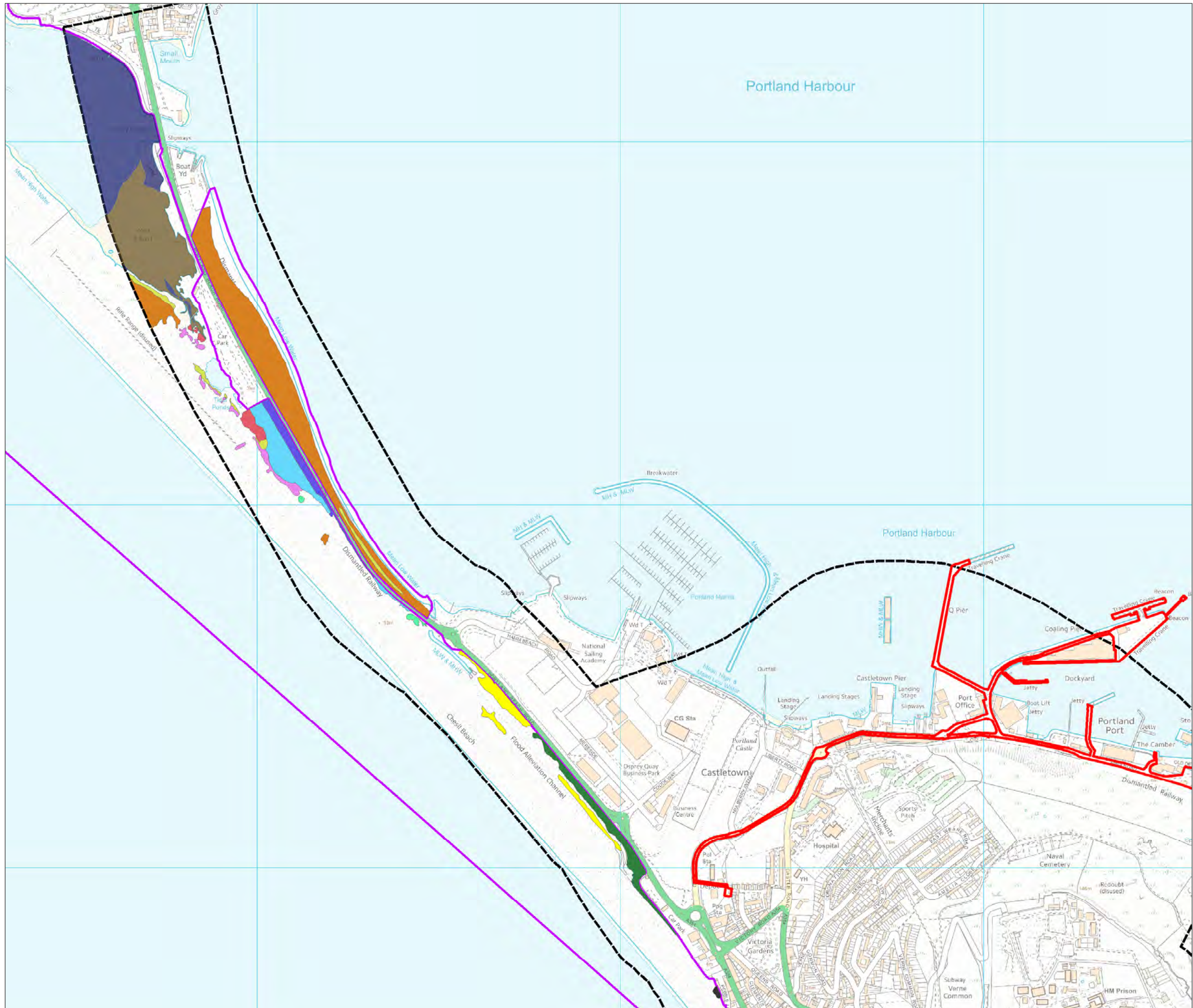
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- Site boundary
- Study area
- Special Area of Conservation
- Natural England Priority Habitat Inventory**
- Mudflats
- Saline lagoons
- Footprint Ecology**
- MC11b Elytrigia Carex
- MC5
- MC8a
- MG1a
- SD1 Mixed Sonchus
- SD1 Silene
- SD1a Crambe
- SD1b Arrhenatherum
- SM14
- SM25

Portland ERF
Powerfuel Ltd

0 250 m

N

Figure 3: NVC communities along A354

Dwg no/2627014/03	Revision
Status	02 November 2022
Scale: 1:10,000 @A3	Drawn by: JC Checked by: JP

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- Site boundary
- Study area
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- Mudflats
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- MC11b Elytrigia Carex
- MC5
- MC8a
- MG1a
- SD1 Mixed Sonchus
- SD1 Silene
- SD1a Crambe
- SD1b Arrhenatherum
- SM14
- SM25

Portland ERF
Powerfuel Ltd

0 125 m

N

Figure 4: NVC communities along A354 (zoomed in)

Dwg no/2627014/04	Revision
Status	02 November 2022
Scale: 1:7,500 @A3	Drawn by: JC Checked by: JP

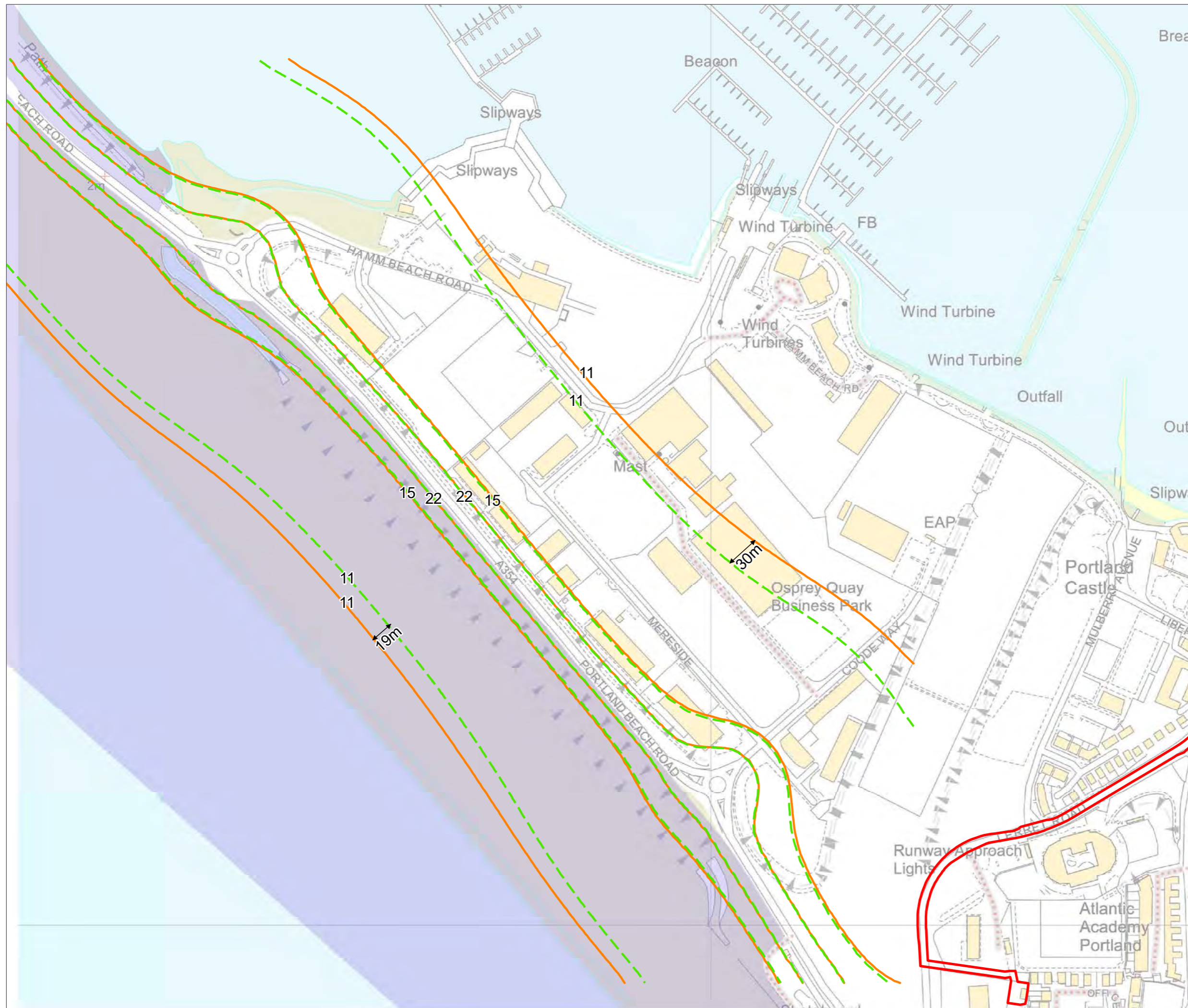
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- Nitrogen Oxides (NOx) contour $\mu\text{g}/\text{m}^3$ - Do minimum
- Nitrogen Oxides (NOx) contour $\mu\text{g}/\text{m}^3$ - Do something
- Special Area of Conservation
- Site boundary

Portland ERF
Powerfuel Ltd

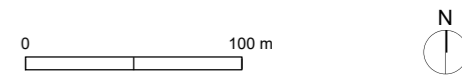


Figure 5: Modelled NOx concentrations (do-minimum and do something scenarios) - showing 22, 15 and 11 $\mu\text{g}/\text{m}^3$ contours

Dwg no/2627014/E001	Revision
Status	25 January 2022
Scale: 1:3,500 @A3	Drawn by: JC Checked by: JP

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- - - Ammonia (NH₃) contour µg/m³ - Do minimum
- Ammonia (NH₃) contour µg/m³ - Do something
- Special Area of Conservation
- Site boundary

Portland ERF
Powerfuel Ltd

0 100 m

N

Figure 6: Modelled NH₃ concentrations (do-minimum and do something scenarios) - showing 1 and 2 µg/m³ contours

Dwg no/2627014/E001	Revision
Status	25 January 2022
Scale: 1:3,500 @A3	Drawn by: JC Checked by: JP

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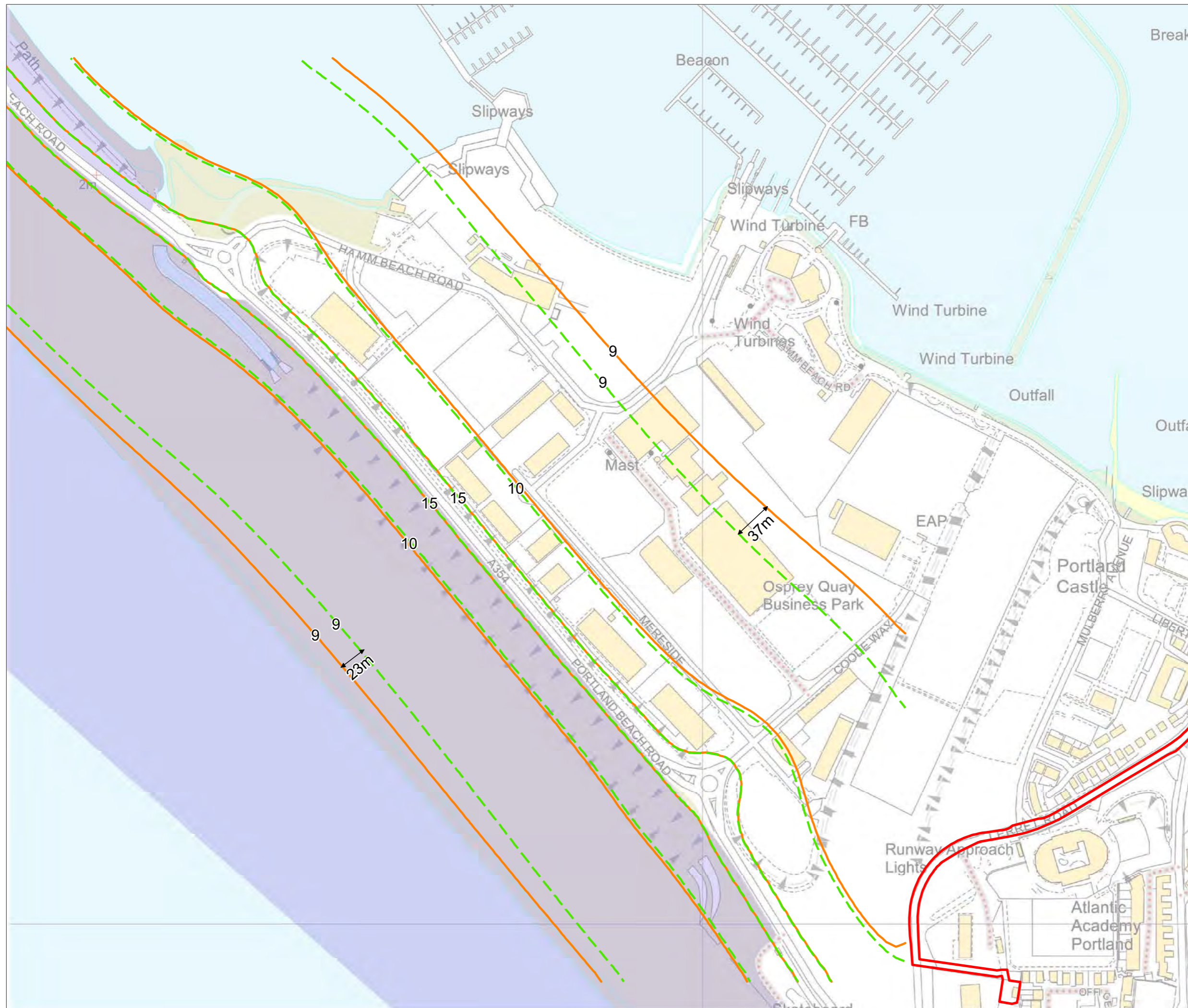
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- Ndep contour kgN/ha/yr - Do minimum
- Ndep contour kgN/ha/yr - Do something
- Special Area of Conservation
- Site boundary

Portland ERF
Powerfuel Ltd

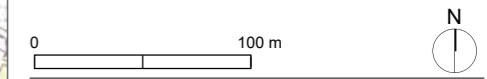


Figure 7: Modelled N deposition (do-minimum and do-something scenarios) - showing 15, 10 and 9 kgN/ha/yr contours

Dwg no/2627014/E001	Revision
Status	25 January 2022
Scale: 1:3,500 @A3	Drawn by: JC Checked by: JP

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Appendix 1: Ramsar information sheet and SPA and SAC citations

NATURA 2000 – STANDARD DATA FORM

Special Areas of Conservation under the EC Habitats Directive (includes candidate SACs, Sites of Community Importance and designated SACs).

Each Natura 2000 site in the United Kingdom has its own Standard Data Form containing site-specific information. The data form for this site has been generated from the Natura 2000 Database submitted to the European Commission on the following date:

22/12/2015

The information provided here, follows the officially agreed site information format for Natura 2000 sites, as set out in the [Official Journal of the European Union recording the Commission Implementing Decision of 11 July 2011 \(2011/484/EU\)](#).

The Standard Data Forms are generated automatically for all of the UK's Natura 2000 sites using the European Environment Agency's Natura 2000 software. The structure and format of these forms is exactly as produced by the EEA's Natura 2000 software (except for the addition of this coversheet and the end notes). The content matches exactly the data submitted to the European Commission.

Please note that these forms contain a number of codes, all of which are explained either within the data forms themselves or in the end notes.

Further technical documentation may be found here
http://bd.eionet.europa.eu/activities/Natura_2000/reference_portal

As part of the December 2015 submission, several sections of the UK's previously published Standard Data Forms have been updated. For details of the approach taken by the UK in this submission please refer to the following document:
http://jncc.defra.gov.uk/pdf/Natura2000_StandardDataForm_UKApproach_Dec2015.pdf

More general information on Special Areas of Conservation (SACs) in the United Kingdom is available from the [SAC home page on the JNCC website](#). This webpage also provides links to Standard Data Forms for all SACs in the UK.

Date form generated by the Joint Nature Conservation Committee
25 January 2016.



NATURA 2000 - STANDARD DATA FORM

For Special Protection Areas (SPA),
Proposed Sites for Community Importance (pSCI),
Sites of Community Importance (SCI) and
for Special Areas of Conservation (SAC)

SITE UK0030349
SITENAME Crookhill Brick Pit

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- [1. SITE IDENTIFICATION](#)
- [2. SITE LOCATION](#)
- [3. ECOLOGICAL INFORMATION](#)
- [4. SITE DESCRIPTION](#)
- [5. SITE PROTECTION STATUS AND RELATION WITH CORINE BIOTOPES](#)
- [6. SITE MANAGEMENT](#)

1. SITE IDENTIFICATION

1.1 Type B	1.2 Site code UK0030349	Back to top
----------------------	-----------------------------------	-----------------------------

1.3 Site name

Crookhill Brick Pit

1.4 First Compilation date 2004-07	1.5 Update date 2015-12
--	-----------------------------------

1.6 Respondent:

Name/Organisation: Joint Nature Conservation Committee

Address: Joint Nature Conservation Committee Monkstone House City Road Peterborough
PE1 1JY

Email:

Date site proposed as SCI: 2004-07

Date site confirmed as SCI: 2004-12

Date site designated as SAC: 2005-04

National legal reference of SAC designation:

Regulations 11 and 13-15 of the Conservation of Habitats and Species Regulations 2010
(<http://www.legislation.gov.uk/uksi/2010/490/contents/made>).

2. SITE LOCATION

[Back to top](#)

2.1 Site-centre location [decimal degrees]:

Longitude

-2.504444444

Latitude

50.61638889

2.2 Area [ha]:

4.64

2.3 Marine area [%]

0.0

2.4 Sitelength [km]:

0.0

2.5 Administrative region code and name

NUTS level 2 code

Region Name

UKK2	Dorset and Somerset
------	---------------------

2.6 Biogeographical Region(s)

Atlantic (100.0
%)

3. ECOLOGICAL INFORMATION

[Back to top](#)

3.2 Species referred to in Article 4 of Directive 2009/147/EC and listed in Annex II of Directive 92/43/EEC and site evaluation for them

Species					Population in the site						Site assessment			
G	Code	Scientific Name	S	NP	T	Size		Unit	Cat.	D.qual.	AIBICID	AIBIC		
						Min	Max				Pop.	Con.	Iso.	Glo.
A	1166	Triturus cristatus			p	101	250	i		M	C	B	B	B

- **Group:** A = Amphibians, B = Birds, F = Fish, I = Invertebrates, M = Mammals, P = Plants, R = Reptiles
- **S:** in case that the data on species are sensitive and therefore have to be blocked for any public access enter: yes
- **NP:** in case that a species is no longer present in the site enter: x (optional)
- **Type:** p = permanent, r = reproducing, c = concentration, w = wintering (for plant and non-migratory species use permanent)
- **Unit:** i = individuals, p = pairs or other units according to the Standard list of population units and codes in accordance with Article 12 and 17 reporting (see [reference portal](#))
- **Abundance categories (Cat.):** C = common, R = rare, V = very rare, P = present - to fill if data are deficient (DD) or in addition to population size information
- **Data quality:** G = 'Good' (e.g. based on surveys); M = 'Moderate' (e.g. based on partial data with some extrapolation); P = 'Poor' (e.g. rough estimation); VP = 'Very poor' (use this category only, if not even a rough estimation of the population size can be made, in this case the fields for population size can remain empty, but the field "Abundance categories" has to be filled in)

4. SITE DESCRIPTION

4.1 General site character

Habitat class	% Cover
N16	35.0
N23	10.0
N06	5.0
N09	50.0
Total Habitat Cover	100

Other Site Characteristics

1 Terrestrial: Soil & Geology: clay,neutral 2 Terrestrial: Geomorphology and landscape: lowland

4.2 Quality and importance

Triturus cristatus for which this is considered to be one of the best areas in the United Kingdom.
--

4.3 Threats, pressures and activities with impacts on the site

The most important impacts and activities with high effect on the site

Negative Impacts			
Rank	Threats and pressures [code]	Pollution (optional) [code]	inside/outside [ilolb]
H	K02		I

Positive Impacts			
Rank	Activities, management [code]	Pollution (optional) [code]	inside/outside [ilolb]

Rank: H = high, M = medium, L = low

Pollution: N = Nitrogen input, P = Phosphor/Phosphate input, A = Acid input/acidification,

T = toxic inorganic chemicals, O = toxic organic chemicals, X = Mixed pollutions

i = inside, o = outside, b = both

4.5 Documentation

Conservation Objectives - the Natural England links below provide access to the Conservation Objectives (and other site-related information) for its terrestrial and inshore Natura 2000 sites, including conservation advice packages and supporting documents for European Marine Sites within English waters and for cross-border sites. See also the 'UK Approach' document for more information (link via the JNCC website).

Link(s): <http://publications.naturalengland.org.uk/category/3212324>
<http://publications.naturalengland.org.uk/category/6490068894089216>

http://jncc.defra.gov.uk/pdf/Natura2000_StandardDataForm_UKApproach_Dec2015.pdf

5. SITE PROTECTION STATUS (optional)

5.1 Designation types at national and regional level:

Code	Cover [%]	Code	Cover [%]	Code	Cover [%]
UK04	100.0				

6. SITE MANAGEMENT

6.1 Body(ies) responsible for the site management:

Organisation:	Natural England
Address:	
Email:	

6.2 Management Plan(s):

An actual management plan does exist:

<input type="checkbox"/>	Yes
<input type="checkbox"/>	No, but in preparation
<input checked="" type="checkbox"/>	No

6.3 Conservation measures (optional)

For available information, including on Conservation Objectives, see Section 4.5.

NATURA 2000 – STANDARD DATA FORM

Special Areas of Conservation under the EC Habitats Directive (includes candidate SACs, Sites of Community Importance and designated SACs).

Each Natura 2000 site in the United Kingdom has its own Standard Data Form containing site-specific information. The data form for this site has been generated from the Natura 2000 Database submitted to the European Commission on the following date:

22/12/2015

The information provided here, follows the officially agreed site information format for Natura 2000 sites, as set out in the [Official Journal of the European Union recording the Commission Implementing Decision of 11 July 2011 \(2011/484/EU\)](#).

The Standard Data Forms are generated automatically for all of the UK's Natura 2000 sites using the European Environment Agency's Natura 2000 software. The structure and format of these forms is exactly as produced by the EEA's Natura 2000 software (except for the addition of this coversheet and the end notes). The content matches exactly the data submitted to the European Commission.

Please note that these forms contain a number of codes, all of which are explained either within the data forms themselves or in the end notes.

Further technical documentation may be found here
http://bd.eionet.europa.eu/activities/Natura_2000/reference_portal

As part of the December 2015 submission, several sections of the UK's previously published Standard Data Forms have been updated. For details of the approach taken by the UK in this submission please refer to the following document:
http://jncc.defra.gov.uk/pdf/Natura2000_StandardDataForm_UKApproach_Dec2015.pdf

More general information on Special Areas of Conservation (SACs) in the United Kingdom is available from the [SAC home page on the JNCC website](#). This webpage also provides links to Standard Data Forms for all SACs in the UK.

Date form generated by the Joint Nature Conservation Committee
25 January 2016.



NATURA 2000 - STANDARD DATA FORM

For Special Protection Areas (SPA),
Proposed Sites for Community Importance (pSCI),
Sites of Community Importance (SCI) and
for Special Areas of Conservation (SAC)

SITE UK0019861
SITENAME Isle of Portland to Studland Cliffs

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- [3. ECOLOGICAL INFORMATION](#)
- [4. SITE DESCRIPTION](#)
- [5. SITE PROTECTION STATUS AND RELATION WITH CORINE BIOTOPES](#)
- [6. SITE MANAGEMENT](#)
- [7. MAP OF THE SITE](#)

1. SITE IDENTIFICATION

1.1 Type B	1.2 Site code UK0019861	Back to top
----------------------	-----------------------------------	-----------------------------

1.3 Site name

Isle of Portland to Studland Cliffs

1.4 First Compilation date 1998-06	1.5 Update date 2015-12
--	-----------------------------------

1.6 Respondent:

Name/Organisation: Joint Nature Conservation Committee
Address: Joint Nature Conservation Committee Monkstone House City Road Peterborough
PE1 1JY
Email:

Date site proposed as SCI:	1998-06
Date site confirmed as SCI:	2004-12
Date site designated as SAC:	2005-04
National legal reference of SAC designation:	Regulations 11 and 13-15 of the Conservation of Habitats and Species Regulations 2010 (http://www.legislation.gov.uk/uksi/2010/490/contents/made).

2. SITE LOCATION

2.1 Site-centre location [decimal degrees]:

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Longitude

-2.2261

Latitude

50.6206

2.2 Area [ha]:

1441.75

2.3 Marine area [%]

0.0

2.4 Sitelength [km]:

0.0

2.5 Administrative region code and name

NUTS level 2 code

Region Name

UKK2	Dorset and Somerset
------	---------------------

2.6 Biogeographical Region(s)

Atlantic (100.0
%)

3. ECOLOGICAL INFORMATION

3.1 Habitat types present on the site and assessment for them

[Back to top](#)

Annex I Habitat types						Site assessment			
Code	PF	NP	Cover [ha]	Cave [number]	Data quality	AIBICID	AIBIC		
						Representativity	Relative Surface	Conservation	Global
1210			1.44		G	C	C	C	C
1220			1.44		G	D			
1230			576.7		M	A	B	A	A
6210			792.96		G	A	C	A	B

- **PF:** for the habitat types that can have a non-priority as well as a priority form (6210, 7130, 9430) enter "X" in the column PF to indicate the priority form.
- **NP:** in case that a habitat type no longer exists in the site enter: x (optional)
- **Cover:** decimal values can be entered
- **Caves:** for habitat types 8310, 8330 (caves) enter the number of caves if estimated surface is not available.
- **Data quality:** G = 'Good' (e.g. based on surveys); M = 'Moderate' (e.g. based on partial data with some extrapolation); P = 'Poor' (e.g. rough estimation)

3.2 Species referred to in Article 4 of Directive 2009/147/EC and listed in Annex II of Directive

92/43/EEC and site evaluation for them

Species					Population in the site						Site assessment			
G	Code	Scientific Name	S	NP	T	Size		Unit	Cat.	D.qual.	AIBICID	AIBIC		
						Min	Max				Pop.	Con.	Iso.	Glo.
P	1654	Gentianella anglica			p	1001	10000	i		M	C	B	C	B
A	1166	Triturus cristatus			p				P	DD	D			

- **Group:** A = Amphibians, B = Birds, F = Fish, I = Invertebrates, M = Mammals, P = Plants, R = Reptiles
- **S:** in case that the data on species are sensitive and therefore have to be blocked for any public access enter: yes
- **NP:** in case that a species is no longer present in the site enter: x (optional)
- **Type:** p = permanent, r = reproducing, c = concentration, w = wintering (for plant and non-migratory species use permanent)
- **Unit:** i = individuals, p = pairs or other units according to the Standard list of population units and codes in accordance with Article 12 and 17 reporting (see [reference portal](#))
- **Abundance categories (Cat.):** C = common, R = rare, V = very rare, P = present - to fill if data are deficient (DD) or in addition to population size information
- **Data quality:** G = 'Good' (e.g. based on surveys); M = 'Moderate' (e.g. based on partial data with some extrapolation); P = 'Poor' (e.g. rough estimation); VP = 'Very poor' (use this category only, if not even a rough estimation of the population size can be made, in this case the fields for population size can remain empty, but the field "Abundance categories" has to be filled in)

4. SITE DESCRIPTION

4.1 General site character

[Back to top](#)

Habitat class	% Cover
N08	5.0
N09	55.0
N05	40.0
Total Habitat Cover	100

Other Site Characteristics

1 Terrestrial: Soil & Geology: basic, sedimentary 2 Terrestrial: Geomorphology and landscape: coastal, lowland 3 Marine: Geology: limestone/chalk 4 Marine: Geomorphology: cliffs

4.2 Quality and importance

Annual vegetation of drift lines for which the area is considered to support a significant presence. which is considered to be rare as its total extent in the United Kingdom is estimated to be less than 100 hectares. Vegetated sea cliffs of the Atlantic and Baltic coasts for which this is considered to be one of the best areas in the United Kingdom. Semi-natural dry grasslands and scrubland facies: on calcareous substrates (Festuco-Brometalia) for which this is considered to be one of the best areas in the United Kingdom. *Gentianella anglica* for which this is considered to be one of the best areas in the United Kingdom.

4.3 Threats, pressures and activities with impacts on the site

The most important impacts and activities with high effect on the site

Negative Impacts			
	Threats		

Positive Impacts		
	Activities,	Pollution

Rank	and pressures [code]	Pollution (optional) [code]	inside/outside [ilolb]
H	G01		I
H	A01		I
H	I01		B
H	K02		I
H	A04		I

Rank	management [code]	(optional) [code]	inside/outside [ilolb]
H	A03		I
H	A06		I
H	B02		I
H	A04		I
H	A02		I

Rank: H = high, M = medium, L = low

Pollution: N = Nitrogen input, P = Phosphor/Phosphate input, A = Acid input/acidification,

T = toxic inorganic chemicals, O = toxic organic chemicals, X = Mixed pollutions

i = inside, o = outside, b = both

4.5 Documentation

Conservation Objectives - the Natural England links below provide access to the Conservation Objectives (and other site-related information) for its terrestrial and inshore Natura 2000 sites, including conservation advice packages and supporting documents for European Marine Sites within English waters and for cross-border sites. See also the 'UK Approach' document for more information (link via the JNCC website).

Link(s): <http://publications.naturalengland.org.uk/category/6490068894089216>

<http://publications.naturalengland.org.uk/category/3212324>

http://jncc.defra.gov.uk/pdf/Natura2000_StandardDataForm_UKApproach_Dec2015.pdf

5. SITE PROTECTION STATUS (optional)

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5.1 Designation types at national and regional level:

Code	Cover [%]	Code	Cover [%]	Code	Cover [%]
UK04	100.0				

6. SITE MANAGEMENT

[Back to top](#)

6.1 Body(ies) responsible for the site management:

Organisation:	Natural England
Address:	
Email:	

6.2 Management Plan(s):

An actual management plan does exist:

<input type="checkbox"/>	Yes
<input type="checkbox"/>	No, but in preparation
<input checked="" type="checkbox"/>	No

6.3 Conservation measures (optional)

For available information, including on Conservation Objectives, see Section 4.5.

7. MAP OF THE SITES

INSPIRE ID:

Map delivered as PDF in electronic format (optional)

Yes No

Reference(s) to the original map used for the digitalisation of the electronic boundaries (optional).

NATURA 2000 – STANDARD DATA FORM

Special Protection Areas (SPAs) classified under Directive 2009/147/EC of the European Parliament and of the Council of 30 November 2009 on the conservation of wild birds (codified version), also known as the ‘Birds Directive’

and

Special Areas of Conservation (SACs) (includes candidate SACs, Sites of Community Importance (SCIs) and designated SACs) designated under Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora, also known as the ‘Habitats Directive’

Each Natura 2000 site in the United Kingdom has its own Standard Data Form containing site-specific information.

The information provided here follows the officially agreed site information format for Natura 2000 sites, as set out in the [Official Journal of the European Union recording the Commission Implementing Decision of 11 July 2011 \(2011/484/EU\)](#).

The Standard Data Forms are generated automatically for all of the UK’s Natura 2000 sites using the European Environment Agency’s Natura 2000 software. The structure and format of these forms is exactly as produced by the EEA’s Natura 2000 software (except for the addition of this coversheet and the end notes). The content matches exactly the data submitted to the European Commission.

Please note that these forms contain a number of codes, all of which are explained either within the data forms themselves or in the end notes.

Further technical documentation may be found here:
http://bd.eionet.europa.eu/activities/Natura_2000/reference_portal

In December 2015, several sections of the UK’s previously published Standard Data Forms were updated. For details of the approach taken by the UK in this submission please refer to the following document:

http://jncc.defra.gov.uk/pdf/Natura2000_StandardDataForm_UKApproach_Dec2015.pdf.

These changes formed part of the UK Submission to the European Commission on 22/12/2015.

More general information on Special Protection Areas (SPAs) and Special Areas of Conservation (SACs) in the United Kingdom, including in Gibraltar, is available from the [SPA homepage](#) and [SAC homepage](#) on the JNCC website. These webpages also provide links to Standard Data Forms for all Natura 2000 sites in the UK.

Date Standard Data Form generated by the Joint Nature Conservation Committee:	14 th November 2017 (UK Tranche 56)
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NATURA 2000 - STANDARD DATA FORM

For Special Protection Areas (SPA),
Proposed Sites for Community Importance (pSCI),
Sites of Community Importance (SCI) and
for Special Areas of Conservation (SAC)

SITE UK9010091
SITENAME Chesil Beach and The Fleet

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1. SITE IDENTIFICATION

1.1 Type A	1.2 Site code UK9010091	Back to top
----------------------	-----------------------------------	-----------------------------

1.3 Site name

Chesil Beach and The Fleet

1.4 First Compilation date 1985-07	1.5 Update date 2017-11
--	-----------------------------------

1.6 Respondent:

Name/Organisation: Joint Nature Conservation Committee
Address: Joint Nature Conservation Committee Monkstone House City Road Peterborough
PE1 1JY
Email:

1.7 Site indication and designation / classification dates

Date site classified as SPA:	1985-07
National legal reference of SPA designation	Regulations 12A and 13-15 of the Conservation Habitats and Species Regulations 2010, (http://www.legislation.gov.uk/uksi/2010/490/contents/made) as amended by The Conservation of Habitats and Species (Amendment) Regulations 2011 (http://www.legislation.gov.uk/uksi/2011/625/contents/made).

2. SITE LOCATION

2.1 Site-centre location [decimal degrees]:**Longitude**

-2.539

Latitude

50.619

2.2 Area [ha]:

747.37

2.3 Marine area [%]

68.8

2.4 Sitelength [km]:

0.0

2.5 Administrative region code and name**NUTS level 2 code****Region Name**

UKK2

Dorset and Somerset

2.6 Biogeographical Region(s)Atlantic (100.0
%)**3. ECOLOGICAL INFORMATION****3.2 Species referred to in Article 4 of Directive 2009/147/EC and listed in Annex II of Directive 92/43/EEC and site evaluation for them**

Species			Population in the site							Site assessment				
G	Code	Scientific Name	S	NP	T	Size		Unit	Cat.	D.qual.	AIBICID	AIBIC		
						Min	Max				Pop.	Con.	Iso.	Glo.
B	A050	Anas penelope			w	4594	4594	i		G	C		C	
B	A195	Sterna albifrons			r	54	54	p		G	C		C	

- **Group:** A = Amphibians, B = Birds, F = Fish, I = Invertebrates, M = Mammals, P = Plants, R = Reptiles
- **S:** in case that the data on species are sensitive and therefore have to be blocked for any public access enter: yes
- **NP:** in case that a species is no longer present in the site enter: x (optional)
- **Type:** p = permanent, r = reproducing, c = concentration, w = wintering (for plant and non-migratory species use permanent)
- **Unit:** i = individuals, p = pairs or other units according to the Standard list of population units and codes in accordance with Article 12 and 17 reporting (see [reference portal](#))
- **Abundance categories (Cat.):** C = common, R = rare, V = very rare, P = present - to fill if data are deficient (DD) or in addition to population size information
- **Data quality:** G = 'Good' (e.g. based on surveys); M = 'Moderate' (e.g. based on partial data with some extrapolation); P = 'Poor' (e.g. rough estimation); VP = 'Very poor' (use this category only, if not even a rough estimation of the population size can be made, in this case the fields for population size can remain empty, but the field "Abundance categories" has to be filled in)

4. SITE DESCRIPTION

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4.1 General site character

Habitat class	% Cover
N07	2.0
N03	4.0
N02	48.0
N05	46.0
Total Habitat Cover	100

Other Site Characteristics

1 Terrestrial: Soil & Geology: peat,nutrient-rich,sedimentary,shingle 2 Terrestrial: Geomorphology and landscape: lowland,coastal 3 Marine: Geology: chert/flint,pebble,mud,gravel,shingle,clay,sand 4 Marine: Geomorphology: enclosed coast (including embayment),lagoon,intertidal sediments (including sandflat/mudflat),shingle bar,open coast (including bay),barrier beach,subtidal sediments (including sandbank/mudbank)

4.2 Quality and importance

ARTICLE 4.1 QUALIFICATION (79/409/EEC) During the breeding season the area regularly supports: Sternula albifrons - 2.5% of the GB breeding population (5 year mean 1980-1984, 54 pairs). ARTICLE 4.2 QUALIFICATION (79/409/EEC) Over winter the area regularly supports: Anas penelope - 1% of the north-west European population (5 year peak mean 1980/81-1984/85, 4594 individuals).

4.3 Threats, pressures and activities with impacts on the site

The most important impacts and activities with high effect on the site

Negative Impacts			
Rank	Threats and pressures [code]	Pollution (optional) [code]	inside/outside [ilolb]
H	H02	X	b
H	K03		i
M	G04		b
M	F02		i
M	H04	N	o
H	G01		b
H	I01		b
H	H01	X	o
M	K01		b
M	D05		i
M	F01		b

Positive Impacts			
Rank	Activities, management [code]	Pollution (optional) [code]	inside/outside [ilolb]
	G03		o
	D05		b
H	A02		i

Rank: H = high, M = medium, L = low

Pollution: N = Nitrogen input, P = Phosphor/Phosphate input, A = Acid input/acidification,

T = toxic inorganic chemicals, O = toxic organic chemicals, X = Mixed pollutions

i = inside, o = outside, b = both

4.5 Documentation

Conservation Objectives - the Natural England links below provide access to the Conservation Objectives (and other site-related information) for its terrestrial and inshore Natura 2000 sites, including conservation advice packages and supporting documents for European Marine Sites within English waters and for cross-border sites. See also the 'UK Approach' document for more information (link via the JNCC website).

Link(s): <http://publications.naturalengland.org.uk/category/6490068894089216>

<http://publications.naturalengland.org.uk/category/3212324>

http://jncc.defra.gov.uk/pdf/Natura2000_StandardDataForm_UKApproach_Dec2015.pdf

<http://publications.naturalengland.org.uk/publication/2967759?category=3212324>

<http://publications.naturalengland.org.uk/publication/6443620974460928?category=5374002071601152>

<http://publications.naturalengland.org.uk/publication/5436996537286656>

5. SITE PROTECTION STATUS (optional)

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5.1 Designation types at national and regional level:

Code	Cover [%]	Code	Cover [%]	Code	Cover [%]
UK04	100.0				

6. SITE MANAGEMENT

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6.1 Body(ies) responsible for the site management:

Organisation:	Natural England, Ilchester Estates, Dorset County Council, Weymouth and Portland Borough Council, Southern Inshore Fisheries and Conservation Authority
Address:	
Email:	

Organisation:	Environment Agency, The Crown Estate, Wessex Water, Ministry of Defence, Portland Harbour Authority, The RSPB, Dorset Wildlife Trust
Address:	
Email:	

6.2 Management Plan(s):

An actual management plan does exist:

<input checked="" type="checkbox"/> Yes	Name: Chesil and the Fleet European Marine Site Management Scheme 2001 Link: http://publications.naturalengland.org.uk/file/7437307
<input type="checkbox"/> No, but in preparation	
<input type="checkbox"/> No	

6.3 Conservation measures (optional)

For available information, including on Conservation Objectives, see Section 4.5.

7. MAP OF THE SITES

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INSPIRE ID:

Map delivered as PDF in electronic format (optional)

Yes No

Reference(s) to the original map used for the digitalisation of the electronic boundaries (optional).

EXPLANATION OF CODES USED IN THE NATURA 2000 STANDARD DATA FORMS

The codes in the table below are also explained in the [official European Union guidelines for the Standard Data Form](#). The relevant corresponding page number is shown in the table below.

1.1 Site type

CODE	DESCRIPTION	PAGE NO
A	SPA (classified Special Protection Area)	53
B	cSAC, SCI or SAC (candidate Special Area of Conservation, Site of Community Importance, designated Special Area of Conservation)	53
C	SPA area/boundary is the same as the cSAC/SCI/SAC i.e. a co-classified/designated site (Note: in the UK Natura 2000 submission, this is only used in Gibraltar)	53

3.1 Habitat representativity

CODE	DESCRIPTION	PAGE NO
A	Excellent representativity	57
B	Good representativity	57
C	Significant representativity	57
D	Non-significant presence	57

3.1 Habitat code

CODE	DESCRIPTION	PAGE NO
1110	Sandbanks which are slightly covered by sea water all the time	57
1130	Estuaries	57
1140	Mudflats and sandflats not covered by seawater at low tide	57
1150	Coastal lagoons	57
1160	Large shallow inlets and bays	57
1170	Reefs	57
1180	Submarine structures made by leaking gases	57
1210	Annual vegetation of drift lines	57
1220	Perennial vegetation of stony banks	57
1230	Vegetated sea cliffs of the Atlantic and Baltic Coasts	57
1310	Salicornia and other annuals colonizing mud and sand	57
1320	Spartina swards (Spartinion maritimae)	57
1330	Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	57
1340	Inland salt meadows	57
1420	Mediterranean and thermo-Atlantic halophilous scrubs (Sarcocornetea fruticosi)	57
2110	Embryonic shifting dunes	57
2120	Shifting dunes along the shoreline with Ammophila arenaria ("white dunes")	57
2130	Fixed coastal dunes with herbaceous vegetation ("grey dunes")	57
2140	Decalcified fixed dunes with Empetrum nigrum	57
2150	Atlantic decalcified fixed dunes (Calluno-Ulicetea)	57
2160	Dunes with Hippophaë rhamnoides	57
2170	Dunes with Salix repens ssp. argentea (Salicion arenariae)	57
2190	Humid dune slacks	57
21A0	Machairs (* in Ireland)	57
2250	Coastal dunes with Juniperus spp.	57
2330	Inland dunes with open Corynephorus and Agrostis grasslands	57
3110	Oligotrophic waters containing very few minerals of sandy plains (Littorelletalia uniflorae)	57
3130	Oligotrophic to mesotrophic standing waters with vegetation of the Littorelletea uniflorae and/or of the Isoëto-Nanojuncetea	57
3140	Hard oligo-mesotrophic waters with benthic vegetation of Chara spp.	57
3150	Natural eutrophic lakes with Magnopotamion or Hydrocharition - type vegetation	57

CODE	DESCRIPTION	PAGE NO
3160	Natural dystrophic lakes and ponds	57
3170	Mediterranean temporary ponds	57
3180	Turloughs	57
3260	Water courses of plain to montane levels with the Ranunculion fluitantis and Callitriche-Batrachion vegetation	57
4010	Northern Atlantic wet heaths with Erica tetralix	57
4020	Temperate Atlantic wet heaths with Erica ciliaris and Erica tetralix	57
4030	European dry heaths	57
4040	Dry Atlantic coastal heaths with Erica vagans	57
4060	Alpine and Boreal heaths	57
4080	Sub-Arctic Salix spp. scrub	57
5110	Stable xerothermophilous formations with Buxus sempervirens on rock slopes (Berberidion p.p.)	57
5130	Juniperus communis formations on heaths or calcareous grasslands	57
6130	Calaminarian grasslands of the Violetalia calaminariae	57
6150	Siliceous alpine and boreal grasslands	57
6170	Alpine and subalpine calcareous grasslands	57
6210	Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites)	57
6230	Species-rich Nardus grasslands, on silicious substrates in mountain areas (and submountain areas in Continental Europe)	57
6410	Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae)	57
6430	Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels	57
6510	Lowland hay meadows (Alopecurus pratensis, Sanguisorba officinalis)	57
6520	Mountain hay meadows	57
7110	Active raised bogs	57
7120	Degraded raised bogs still capable of natural regeneration	57
7130	Blanket bogs (* if active bog)	57
7140	Transition mires and quaking bogs	57
7150	Depressions on peat substrates of the Rhynchosporion	57
7210	Calcareous fens with Cladium mariscus and species of the Caricion davallianae	57
7220	Petrifying springs with tufa formation (Cratoneurion)	57
7230	Alkaline fens	57
7240	Alpine pioneer formations of the Caricion bicoloris-atrofuscae	57
8110	Siliceous scree of the montane to snow levels (Androsacetalia alpinae and Galeopsietalia ladani)	57
8120	Calcareous and calcshist screes of the montane to alpine levels (Thlaspietea rotundifolii)	57
8210	Calcareous rocky slopes with chasmophytic vegetation	57
8220	Siliceous rocky slopes with chasmophytic vegetation	57
8240	Limestone pavements	57
8310	Caves not open to the public	57
8330	Submerged or partially submerged sea caves	57
9120	Atlantic acidophilous beech forests with Ilex and sometimes also Taxus in the shrublayer (Quercion robori-petraeae or Ilici-Fagenion)	57
9130	Asperulo-Fagetum beech forests	57
9160	Sub-Atlantic and medio-European oak or oak-hornbeam forests of the Carpinion betuli	57
9180	Tilio-Acerion forests of slopes, screes and ravines	57
9190	Old acidophilous oak woods with Quercus robur on sandy plains	57
91A0	Old sessile oak woods with Ilex and Blechnum in the British Isles	57
91C0	Caledonian forest	57
91D0	Bog woodland	57
91E0	Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion albae)	57
91J0	Taxus baccata woods of the British Isles	57

3.1 Relative surface

CODE	DESCRIPTION	PAGE NO
A	> 15%-100%	58
B	> 2%-15%	58
C	≤ 2%	58

3.1 Degree of conservation

CODE	DESCRIPTION	PAGE NO
A	Excellent conservation	59
B	Good conservation	59
C	Average or reduced conservation	59

3.1 Global assessment

CODE	DESCRIPTION	PAGE NO
A	Excellent value	59
B	Good value	59
C	Significant value	59

3.2 Population (abbreviated to 'Pop.' in data form)

CODE	DESCRIPTION	PAGE NO
A	> 15%-100%	62
B	> 2%-15%	62
C	≤ 2%	62
D	Non-significant population	62

3.2 Degree of conservation (abbreviated to 'Con.' in data form)

CODE	DESCRIPTION	PAGE NO
A	Excellent conservation	63
B	Good conservation	63
C	Average or reduced conservation	63

3.2 Isolation (abbreviated to 'Iso.' in data form)

CODE	DESCRIPTION	PAGE NO
A	Population (almost) Isolated	63
B	Population not-isolated, but on margins of area of distribution	63
C	Population not-isolated within extended distribution range	63

3.2 Global assessment (abbreviated to 'Glo.' or 'G.' in data form)

CODE	DESCRIPTION	PAGE NO
A	Excellent value	63
B	Good value	63
C	Significant value	63

3.3 Assemblages types

CODE	DESCRIPTION	PAGE NO
WATR	Non-breeding waterbird assemblage	UK specific code
SBA	Breeding seabird assemblage	UK specific code
BBA	Breeding bird assemblage (applies only to sites classified pre 2000)	UK specific code

4.1 Habitat class code

CODE	DESCRIPTION	PAGE NO
N01	Marine areas, Sea inlets	65
N02	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins)	65
N03	Salt marshes, Salt pastures, Salt steppes	65
N04	Coastal sand dunes, Sand beaches, Machair	65
N05	Shingle, Sea cliffs, Islets	65
N06	Inland water bodies (Standing water, Running water)	65
N07	Bogs, Marshes, Water fringed vegetation, Fens	65
N08	Heath, Scrub, Maquis and Garrigue, Phygrana	65
N09	Dry grassland, Steppes	65
N10	Humid grassland, Mesophile grassland	65
N11	Alpine and sub-Alpine grassland	65
N14	Improved grassland	65
N15	Other arable land	65
N16	Broad-leaved deciduous woodland	65
N17	Coniferous woodland	65
N19	Mixed woodland	65
N21	Non-forest areas cultivated with woody plants (including Orchards, groves, Vineyards, Dehesas)	65
N22	Inland rocks, Scree, Sands, Permanent Snow and ice	65
N23	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	65
N25	Grassland and scrub habitats (general)	65
N26	Woodland habitats (general)	65

4.3 Threats code

CODE	DESCRIPTION	PAGE NO
A01	Cultivation	65
A02	Modification of cultivation practices	65
A03	Mowing / cutting of grassland	65
A04	Grazing	65
A05	Livestock farming and animal breeding (without grazing)	65
A06	Annual and perennial non-timber crops	65
A07	Use of biocides, hormones and chemicals	65
A08	Fertilisation	65
A10	Restructuring agricultural land holding	65
A11	Agriculture activities not referred to above	65
B01	Forest planting on open ground	65
B02	Forest and Plantation management & use	65
B03	Forest exploitation without replanting or natural regrowth	65
B04	Use of biocides, hormones and chemicals (forestry)	65
B06	Grazing in forests/ woodland	65
B07	Forestry activities not referred to above	65
C01	Mining and quarrying	65
C02	Exploration and extraction of oil or gas	65
C03	Renewable abiotic energy use	65
D01	Roads, paths and railroads	65
D02	Utility and service lines	65
D03	Shipping lanes, ports, marine constructions	65
D04	Airports, flightpaths	65
D05	Improved access to site	65
E01	Urbanised areas, human habitation	65
E02	Industrial or commercial areas	65

CODE	DESCRIPTION	PAGE NO
E03	Discharges	65
E04	Structures, buildings in the landscape	65
E06	Other urbanisation, industrial and similar activities	65
F01	Marine and Freshwater Aquaculture	65
F02	Fishing and harvesting aquatic resources	65
F03	Hunting and collection of wild animals (terrestrial), including damage caused by game (excessive density), and taking/removal of terrestrial animals (including collection of insects, reptiles, amphibians, birds of prey, etc., trapping, poisoning, poaching, predator control, accidental capture (e.g. due to fishing gear), etc.)	65
F04	Taking / Removal of terrestrial plants, general	65
F05	Illegal taking/ removal of marine fauna	65
F06	Hunting, fishing or collecting activities not referred to above	65
G01	Outdoor sports and leisure activities, recreational activities	65
G02	Sport and leisure structures	65
G03	Interpretative centres	65
G04	Military use and civil unrest	65
G05	Other human intrusions and disturbances	65
H01	Pollution to surface waters (limnic & terrestrial, marine & brackish)	65
H02	Pollution to groundwater (point sources and diffuse sources)	65
H03	Marine water pollution	65
H04	Air pollution, air-borne pollutants	65
H05	Soil pollution and solid waste (excluding discharges)	65
H06	Excess energy	65
H07	Other forms of pollution	65
I01	Invasive non-native species	65
I02	Problematic native species	65
I03	Introduced genetic material, GMO	65
J01	Fire and fire suppression	65
J02	Human induced changes in hydraulic conditions	65
J03	Other ecosystem modifications	65
K01	Abiotic (slow) natural processes	65
K02	Biocenotic evolution, succession	65
K03	Interspecific faunal relations	65
K04	Interspecific floral relations	65
K05	Reduced fecundity/ genetic depression	65
L05	Collapse of terrain, landslide	65
L07	Storm, cyclone	65
L08	Inundation (natural processes)	65
L10	Other natural catastrophes	65
M01	Changes in abiotic conditions	65
M02	Changes in biotic conditions	65
U	Unknown threat or pressure	65
XO	Threats and pressures from outside the Member State	65

5.1 Designation type codes

CODE	DESCRIPTION	PAGE NO
UK00	No Protection Status	67
UK01	National Nature Reserve	67
UK04	Site of Special Scientific Interest (UK)	67
UK05	Marine Conservation Zone	67
UK06	Nature Conservation Marine Protected Area	67
UK86	Special Area (Channel Islands)	67
UK98	Area of Special Scientific Interest (NI)	67
IN00	Ramsar Convention site	67
IN08	Special Protection Area (SPA, EC Birds Directive)	67
IN09	Special Area of Conservation (SAC, EC Habitats Directive)	67

CHESIL BEACH AND THE FLEET, DORSET

Chesil Beach is one of the five largest shingle beaches in Britain and is of international interest both as a rare habitat and as a unique physiographic feature. It is the largest shingle tombolo in the Country; comprising a simple, linear shingle storm beach linking the Isle of Portland to the mainland.

The shingle provides nesting habitat for up to 100 pairs of Little Terns (*Sterna albifrons*) comprising c.5% of the British breeding population. It is also an important site for Common Tern (*Sterna hirundo*) (c. 65 pairs) and Ringed Plover (*Charadrius histicula*) (c. 50 pairs).

The small pebbled shingle in the west is well vegetated in parts and has a very rich flora; including local species like sea-kale (*Crambe maritima*), Yellow Horned-poppay (*Glaucium flavum*), Sea Pea (*Lathyrus japonicus*), Shrubby Sea-blite (*Suaeda fruticosa*) and Rough Clover (*Trifolium scabrum*): plants that are characteristic of unstable shingle.

It is the only British locality for the Wingless Cricket (*Megoplites squamiger*).

The Fleet is the largest regularly-tidal lagoon in Britain; which with fresh-water stream inputs, gives rise to saline/brackish conditions. The bed of the Fleet shows unusual transitional habitats between the claybottom deposits and shingle substrate. The flora contains the most extensive mixed population of Eelgrasses (*Zostera* spp) in Britain, the very local Spiral Tasselweed (*Ruppia spiralis*), a rare stonewort (*Chara* sp) and diverse marine algal assemblages. "The section of the Fleet from the Narrows east to Small Mouth has a dominant marine influence with very rich communities including several species rarely recorded within the British Isles - notably the sponge, *Suberites massa* and goby *Gobius couchi* (both recorded in only two other localities in Britain), the burrowing anemone, *Scolanthus callimorphus* (type locality in Portland Harbour and recorded on West coast of Ireland) and the polychaete *Sabella flabellata*."

The Fleet is notable for the diversity of waders and wildfowl in winter. In particular it regularly supports at least 1% of the north-west European population of Wigeon (*Anas penelope*) with up to 7,000 birds being recorded in recent years. Good numbers of Pochard (*Aythya ferina*), Teal (*Anas crecca*), Pintail (*Anas acuta*), Mallard (*Anas platyrhynchos*), Shoveler (*Anas clypeata*), Tufted Duck (*Aythya fuligula*) and Goldeneye (*Bucephala clangula*) are also present.

The site supports the largest resident Mute Swan (*Cygnus olor*) population in Britain (1000 + birds) which predominantly graze the *Zostera* beds. Some 30-40 pairs breed.

In recent years, Dark-bellied Brent Geese (*Branta bernicula*) have begun to over-winter.

This citation / map relates to a site entered in
the Register of European sites for Great Britain.
Register reference number UK001009
Date of registration 30 JAN 1996

Signed ... 
on behalf of the Secretary of State for the Environment

EC Directive 92/43 on the Conservation of Natural Habitats and of Wild Fauna and Flora

Citation for Special Area of Conservation (SAC)

Name:	Chesil and the Fleet
Unitary Authority/County:	Dorset
SAC status:	Designated on 1 April 2005
Grid reference:	SY630795
SAC EU code:	UK0017076
Area (ha):	1631.63
Component SSSI:	Chesil Beach and The Fleet SSSI, Portland Harbour Shore SSSI, West Dorset Coast SSSI

Site description:

The Fleet is the largest example of a lagoonal habitat in England and has features of both lagoonal inlets and percolation lagoons. It is bordered by the fossil shingle barrier beach structure of Chesil Beach, through which sea water percolates into the lagoon, but most of its water exchange occurs through the narrow channel that links it to Portland Harbour. A low freshwater input produces fully saline conditions throughout most of the Fleet, with reduced salinity occurring only in the west. The lagoon is extremely sheltered from wave action and has weak tidal streams, except in the eastern narrows and entrance channel. The tidal range is much smaller and temperature range far greater than on the open coast. The lagoon supports extensive populations of two species of eelgrass *Zostera* and three species of tasselweed *Ruppia*, including the rare spiral tasselweed *R. cirrhosa*, and a diverse fauna that includes a number of nationally rare and scarce species.

The 28 km-long shingle bar of Chesil Beach, with the contiguous Portland Harbour shore, is an extensive representative of perennial vegetation of stony banks, and most of it is relatively undisturbed by human activities. Much of the shingle bar is subject to wash-over and percolation in storm conditions and is therefore sparsely vegetated. It supports the most extensive occurrences of the rare sea-kale *Crambe maritima* and sea pea *Lathyrus japonicus* in the UK, together with other grassland and lichen-rich shingle plant communities typical of more stable conditions, especially towards the eastern end of the site. The inner shore of the beach supports extensive drift-line vegetation dominated by sea beet *Beta vulgaris* ssp. *maritima* and orache *Atriplex* spp. This community exists in a dynamic equilibrium with Mediterranean saltmarsh scrub, which it replaces in areas subject to disturbance, and is in turn displaced by the scrub after disturbance ceases.

Mediterranean saltmarsh scrub occurs as a band of shrubby sea-blite *Suaeda vera* and sea-purslane *Atriplex portulacoides*. The largest extent of this community lines much of the 13 km length of the seaward margin of the Fleet. The community forms a clear zone between the Fleet and the shingle vegetation of Chesil Bank.

Qualifying habitats: The site is designated under **article 4(4)** of the Directive (92/43/EEC) as it hosts the following habitats listed in Annex I:

- Coastal lagoons*
- Annual vegetation of drift lines
- Atlantic salt meadows (*Glauco-Puccinellietalia maritima*)
- Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruticosi*). (Mediterranean saltmarsh scrub)
- Perennial vegetation of stony banks. (Coastal shingle vegetation outside the reach of waves)

Annex I priority habitats are denoted by an asterisk (*).

This citation relates to a site entered in the Register of European Sites for Great Britain.

Register reference number: UK0017076

Date of registration: 14 June 2005

Signed: [REDACTED]

On behalf of the Secretary of State for Environment, Food and Rural Affairs

Appendix 2: DERC report

A. SAC features, Isle of Portland to Studland Cliffs SAC

1. LOWER PLANTS

i). Bryophyte assemblage with comprising species with a Mediterranean distribution

Due to its southerly position and largely frost-free climate Portland supports many plants, bryophytes and lichens that show a Mediterranean or Southern Oceanic distribution as defined by Hill & Preston (1998). At present 41 bryophytes fall within these categories, 11 of these (Table 1) are Red Listed or Nationally Scarce, with a further 6 that are important at a regional or county level. 5 species, 3 mosses and 2 liverworts are on Section 41 of the NERC Act (2006) as species of Principal Conservation Importance in England.

Within the AoS there is only limited habitat for many of the species on the list with main populations found on the eastern undercliffs from King's Pier south to Freshwater Bay. Two Section 41 and Red Listed liverworts have been recorded from the AoS. *Cephaloziella baumgartneri* (S41, EN) was found overgrowing a large limestone boulder on Verne Common (SSSI Unit 33) in 1997. *Southbya nigrella* (S41, VU) was found growing on the same boulder as the *Cephaloziella* in 1997 and in 2010 a small population was found in a small area of scree GR SY69517375. Within the SAC *Cephaloziella baumgartneri* is found in around ten sites, mainly on the eastern undercliffs with one site in King Barrow Quarries, *Southbya nigrella* is known from twelve sites and often occurs with *C. baumgartneri* in open limestone grassland. Both species are found a little more widely within the SSSI in the abandoned quarries with sites in Bowers, Trade and Tout Quarries and west of Admiralty Quarries. Both these liverworts are confined in Dorset to the Isle of Portland, and also have their UK strongholds here with c. >50% of British population of *C. baumgartneri* and >90% of *Southbya nigrella* are found on the Island. The small acrocarpous moss *Pleurochaete squarrosa* has been recorded from open grassland between High Angle Battery and the Verne. There are three other recent records from Portland and it is also known from the Hamm Beach.

TABLE 1. Key bryophytes exhibiting an Oceanic or Mediterranean-Atlantic distribution

Species	Element	Status
<i>Acaulon triquetrum</i>	Submediterranean-Subatlantic	S41; EN; NR
<i>Bryum canariense</i>	Mediterranean-Atlantic	NS
<i>Bryum torquescens</i>	Mediterranean-Atlantic	NS
<i>Cephaloziella baumgartneri</i>	Mediterranean-Atlantic	S41; EN; NR
<i>Cololejeunea rossettiana</i>	Submediterranean-Subatlantic	NS
<i>Eurhynchium meridionale</i>	Mediterranean-Atlantic	VU
<i>Funaria pulchella</i>	Submediterranean-Subatlantic	S41; NT; NS
<i>Grimmia orbicularis</i>	Submediterranean-Subatlantic	
<i>Gymnostomum viridulum</i>	Mediterranean-Atlantic	NS
<i>Leptodon smithii</i>	Mediterranean-Atlantic	RR

Species	Element	Status
<i>Marchesinia mackaii</i>	Oceanic Southern-temperate	RR
<i>Plagiochila killarniensis</i>	Hyperoceanic Southern-temperate	RR
<i>Pleurochaete squarrosa</i>	Submediterranean-Subatlantic	NS
<i>Porella arboris-vitae</i>	Submediterranean-Subatlantic	DR
<i>Porella obtusata</i>	Oceanic Southern-temperate	RR
<i>Pterogonium gracile</i>	Submediterranean-Subatlantic	RR
<i>Southbya nigrella</i>	Mediterranean-Atlantic	S41; VU; NR
<i>Weissia condensa</i>	Submediterranean-Subatlantic	S41; NT

MAP 1. Location of bryophytes with a Mediterranean distribution



Red Line = Area of Search (AoS) Blue hatch = SAC Blue line = SSSI

● = Location of feature

ii). Terricolous and saxicolous lichens considered to be characteristic and preferential to the following NVC Communities; W21, W22, CG1, CG3, CG4, MC1, MC5, MC8 and MC11.

The NVC communities listed above are all notified features of the Isle of Portland SSSI. Of these the maritime communities **MC1**, **MC5**, **MC8** and **MC11** are better developed on the coastlines in the southern half of the Island and are largely absent from the AoS. Calcareous (limestone) grasslands, **CG1**, **CG3** and **CG4**, are widespread across the Island in and around abandoned quarries, remnants of the old common at the Bill and Verne and on the wide undercliffs. **CG3** is by far the most abundant and occurs within the AoS on the slopes around the Verne and High Angle Battery. **CG1** and **CG4** are both much more local with the SSSI and SAC and are not known to occur within the AoS, although very small fragments of **CG1** occur just outside in King Barrow Quarries and east of Admiralty Quarry within Nicodemus Height's SSSI. Of the three limestone grasslands **CG1** is by far the most important for lower plants providing a habitat for several of key Mediterranean bryophytes and lichens particularly the S41 species *Cephaloziella baumgartneri* (S41, EN), *Southbya nigrella* (S41, VU) and *Biatorrella fossarum* (S41, EN). The two liverworts are discussed in detail above. The terricolous lichen *Biatorrella fossarum* is currently known from only four sites in Britain with Portland supporting the largest populations. Within the AoS it has been at High Angle Battery (SSSI Unit 54) in 2008 on limestone soil along a path. It has also been found just outside the AoS in King Barrow and Tout Quarries. Within the SAC it has been recorded from several sites on the eastern undercliffs from East Weare south to Duncroft Quarries, and inland in King Barrow Quarries at High Angle Batteries, and at the only other known site in Dorset off of Portland from the undercliff at Emmetts Hill, Purbeck. The S41 lichen *Toninia sedifolia* has been recorded just outside the AoS in King Barrow Quarries, and has its best Dorset populations on Portland in the stands of CG1 grassland.

Scrub (**W21** and **W22**) is locally abundant on the eastern undercliffs and becomes almost dominant in the northern part of East Weare (SSSI Unit 34) and around to Verne Common (SSSI Unit 33). While there has always been an element of scrub in these areas it has increased in both area and density over the last 75 years (Edwards, 2016). The more mature shrubs of Blackthorn and Hawthorn in the more sheltered areas of Units 33 and 34 support a good range of epiphytic lichens which are typical of coastal scrub in southwest Britain. Of particular note are the two beard-lichens *Usnea articulata* and *U. esperantiana*, both of which are very sensitive to atmospheric pollution. *Usnea articulata* (S41, NT) was found on a large Blackthorn bush on Verne Common in 2008. This is the only known site on Portland and elsewhere in Dorset it is mostly found on mature shrubs and in the canopy of woodland trees in the west of the county where it can be locally frequent. *Usnea esperantiana* (NT) was found on Blackthorn twigs in the western part of Verne Common in 2016. This is the only known site on Portland and in Dorset it is currently known from six other sites in the county but may be under-recorded due to past confusion with other *Usnea* species. Neither species has been recorded within the Isle of Portland to Studland Cliffs SAC, though suitable habitat for *U. esperantiana* is present.

MAP 2. Location of key lichens associated with particular NVC communities



- Interest feature:** ● = Terricolous lichens associated with open limestone grassland
● = Epiphytic lichens associated with wind-pruned coastal scrub (W21 & W22)

iii). Any of the 16 Red Data Book, 2 Nationally Rare and 39 Nationally Scarce lichens associated with coastal limestone and chert

The Isle of Portland is of national, and possibly international, importance for the lichen assemblages associated with limestone and maritime chert. The eastern undercliffs, especially between Church Ope Cove and Durdle Pier, are particularly rich but the interest extends locally into some of the abandoned quarries. There is very little of this habitat the slopes within Unit 33 is mainly over Kimmeridge Clay and lack the boulders that key to the assemblage. The area is now mainly scrub which shades the few boulders and rock outcrops that are there.

The two species found within the AoS are *Diploschistes gypsaceus* (NS) and *Placidium pilosellum* (NT) which are found on the large boulders above the huts on West Weare. *Diploschistes gypsaceus* is a very scarce lichen of shaded and sheltered hard limestone found in scattered sites north to central Scotland, but in southern England is only known from a few sites. In Dorset the only recent records are from Portland in sheltered ravines in long abandoned quarries and on the vertical sides of boulders on the undercliffs. Other sites within the SAC include screes below Grove and boulders near Durdle Pier both on the eastern undercliffs. *Placidium pilosellum* grows on highly calcareous or basic soils and is found in scattered sites mainly on the western side of the British Isles. In southern England it is uncommon with a few sites on chalk, limestone and basic sand dunes. In Dorset it is known from Portland overgrowing thin limestone soils on boulders and rock outcrops on the undercliffs and abandoned quarries and from chalk cliffs near Swanage. Other sites within the SAC include East Weare and near Durdle Pier, and the only Dorset site off of Portland at Ballard Cliff, Swanage.

MAP 3. Location of Red Listed, Nationally Rare and Nationally Scarce lichens associated with coastal limestone and chert



2. BUTTERFLIES

**Records of either of the following butterflies occur with the proposed defined area of search:
Lulworth skipper and Adonis blue**

Lulworth Skipper *Thymelicus acteon* (S41, NT) is currently confined in Britain to the Dorset coast between Portland and Swanage (Ballard Down); there is an outlying colony to the west near Burton Bradstock. The caterpillars feed on Tor-grass *Brachypodium pinnatum* agg. which is abundant along the Dorset coast on chalk, limestone and occasionally calcareous clay, taller swards 20-50cm in height are preferred. On Portland it is a relatively recent addition (1980s) becoming established first in the south of the Island but has spread widely where Tor-grass is abundant. Within the AoS it has been recorded from Verne Common (SSSI Unit 33) and High Angle Batteries (SSSI Unit 54) with several other colonies just to the south of the AoS boundary. The Isle of Portland to Studland Cliffs will support many colonies also particularly between White Nothe and Gad Cliff, and the majority of colonies are found within the four SSSIs, Isle of Portland, South Dorset Coast Purbeck Ridge East and Purbeck Ridge West.

Adonis Blue *Polyommatus bellargus* (NT) is a specialist butterfly of short, south-facing chalk and limestone grassland where there is an abundance of the larval foodplant Horseshoe Vetch *Hippocrepis comosa*. Despite the abundance of Horseshoe Vetch Adonis Blue is very local on Portland for reasons that are unclear, although the swards are generally taller than on the typical downland sites further inland in Dorset. There are colonies scattered throughout the Island, the largest seem to be in the centre and north at High Angle Batteries, Penn's Weare and Tout Quarries. Within the AoS there are recent records from the slopes east of the Verne including the Verne Moat (SSSI Unit 52) and from High Angle Batteries (SSSI Unit 54), with other just to the south of the AoS boundary in King Barrow and Tout Quarries. Dorset is a UK stronghold for Adonis Blue where it is widespread inland on the chalk and on the coastal chalk and limestone. Within the Isle of Portland to Studland Cliffs SAC there are important colonies around Lulworth and on Ballard Down.

MAP 4. Location of key butterflies: Adonis Blue & Lulworth Skipper



Interest feature: ● = Adonis Blue *Polyommatus bellargus*
 ● = Lulworth Skipper *Thymelicus acteon*

B. Isle of Portland SSSI interest features

i). LOWER PLANTS

Presence of any of the following lower plant species within the AoS:

***Eurhynchium meridionale*, *Southbya nigrella*, *Roccella phycopsis*, *Arthonia endlicheri*, *Dirina repanda*, *Lecanactis grumulosa*, *Sclerophyton circumscriptum* and *Caloplaca granulosa*. Any species from genus: *Caloplaca*, *Verrucaria* and *Collema*.**

The species above are listed on the Isle of Portland SSSI Citation sheet and form part of the 'Lichen assemblage' and 'Bryophyte assemblage' both notified features of the SSSI. The first two are bryophytes of which only ***Southbya nigrella*** (S41, VU) has been recorded from the AoS, recorded from a large limestone boulder on Verne Common (SSSI Unit 33) in 1997, and from a small area of sheltered scree above East Weare Camp (SSSI Unit 34) in 2010. Its wider distribution has been discussed in more detail above. The six named lichens are all with limestone and chert rocks, particularly boulders on the eastern undercliffs and are found south of the AoS and have not been recorded any nearer than Folly Pier or Grove Point. Lichens of the genera *Caloplaca*, *Verrucaria* and *Collema* are widespread on limestone rocks, both natural outcrops on the undercliffs and 'man-made' quarry ravines. Many of the species are widespread and found throughout the Island suitable habitats. The most notable species are *Collema fragile* (S41; VU) and *C. polycarpon* (NS). Both are not found within the AoS and occur to the south on the eastern undercliffs near Grove Point. *Caloplaca maritima* and *C. ochracea* are both Nationally Scarce but have not been recorded within the AoS the nearest site near Grove Point on East Weare.

The Verne area has had less survey work for lower plants compared with the undercliffs and quarries and suitable habitat for some of these species may be present within the AoS within areas such as the Verne 'moat'.

ii). INVERTEBRATES

Presence of any of the following invertebrate species within the AoS: *Truncatellina britannica*, *Helica itala*, *Polyommatus coridon*, *Polyommatus bellargus*, *Plebejus argus*, *Sterrhya degeneraria*, *Tyta lactuosa*, *Ectobius panzeri* and *Platycleis denticulata*.

Portland is a key site for butterflies in Southern England and supports a very wide range of other invertebrates with many rare and scarce species present. Within the AoS much of the land has a northerly aspect or is dense scrub and therefore does not provide optimum habitats for invertebrates, therefore areas on the southern side of the Verne and around High Angle Batteries has most interest including colonies of key butterflies. The neighbouring abandoned quarries at Tout and King Barrow just outside the AoS are some of the most important sites for butterflies on the Island. **Adonis blue *Polyommatus bellargus*** (NT) and **Silver-studded Blue *Plebejus argus*** (S41, VU) are both notified features of the Isle of Portland SSSI as is an 'invertebrate assemblage', which will include a range of Red Listed, Nationally Scarce and locally rare taxa and includes the **Chalk Hill Blue *Polyommatus coridon*** (NT). All three species have been recorded from the AoS at High Angle Batteries (SSSI Unit 54) which is one of key butterfly sites on the Island. Adonis Blue and Chalk Hill Blue have also been recorded from the slopes around Verne (SSSI Units 51 & 52). On Portland Chalk Hill Blue is the most frequent of the three with sites scattered through the middle and north of the Island with some very large colonies present, especially on the eastern undercliffs around Church Ope Cove. Chalk Hill Blue is declining inland in Dorset for reasons that are not fully known, it is probably extinct on the chalk downs west of Dorchester and the main colonies are now on the northeast chalk. The Portland colonies are therefore of considerable importance within the county.

Silver-studded Blue has declined significantly and is only known now from less than 10 colonies the main ones at Broadcroft Quarries and near Nicodemus Knob, with smaller ones at High Angle Batteries, King Barrow Quarries and Tout Quarries. This limestone form of the Silver-studded Blue is not known elsewhere in Dorset, the main form being confined to the Poole Basin heaths.

Moths are very well recorded thanks to the nightly traps set out by Portland Bird Observatory and others. Recording is much patchier than butterflies and the middle and southern part of the Island. Of the two moths listed above only **Portland Ribbon Wave *Idea degeneraria*** has been recorded within or near the AoS. It feeds on various herbaceous plants including Bramble *Rubus fruticosus* on scrubby undercliffs and as a breeding resident in Britain it is confined to Portland and Purbeck. On Portland it is known to be resident on the undercliffs, particularly on the eastern side. Within the AoS it has been recorded from a moth trap at Fortuneswell and from just outside on the West Weare.

Grey Bush-cricket *Platycleis albopunctata* is a warmth-loving species confined to coastal areas of southern England. It is widespread all along the Dorset coast but is typically found within 50-100 metres of the cliff top. Due to its mild climate and the shelter afforded by the old quarries it is found

throughout Portland in suitable habitat, which is typically calcareous grassland with pockets of bare ground and scattered low scrub. The only record within the AoS, is from 'Castletown' with no other details. The species is likely to occur elsewhere particularly on the southerly aspects of Verne slopes above Tillycombe. There are more records just outside the AoS with Tout and King Barrow Quarries. **Lesser Cockroach *Ectobius panzeri*** is one of three native cockroaches all of which are local or scarce and found mainly in Southern England and are often coastal. *E. panzeri* is the most frequent species in Dorset and is widespread on Portland and the Purbeck coast but very local elsewhere. It is found in warm, open often stony habitats on cliff tops, undercliffs and shingle, or inland on heaths and chalk grassland. On Portland it is mainly found in the middle and south of the Island in abandoned quarries or in maritime grassland where it can be found on the flowers of Wild Carrot. There are no from the AoS on the Island, but it has been recorded from the vegetated shingle on the Hamm Beach within Portland Harbour SSSI.

Mollusca are poorly recorded compared to most other invertebrate groups mainly due to a lack of recorders. The two species mentioned above, ***Helicella itala* Heath Snail** and ***Truncatellina callicratis* British Whorl Snail**, are both associated with high quality limestone grassland, the latter is very small (c. 2mm) and found in short turf. There are no records from the AoS, the nearest sites being Tout Quarries for *Truncatellina* and West Weares for *Helicella*.

MAP 6. Location of invertebrate interest features



- Interest feature:**
- = Key butterflies (Adonis Blue *Polyommatus bellargus*, Chalk Hill Blue *Polyommatus coridon* Silver-studded Blue *Plebejus argus*)
 - = Key moths (Portland Ribbon Wave *Idaeia degeneraria*)
 - ◆ = Key Orthoptera (Grey bush-cricket *Platycleis albopunctata* & Lesser Cockroach *Ectobius panzeri*)

C. Chesil and the Fleet SAC features

i). Lower plants found within 200m of the Beach Road occurring within NVC communities characteristic of vegetated shingle feature; SD1; SD19; MC5; MC8; SM25

Lichens and bryophytes are not a particularly prominent feature of the vegetated shingle along Chesil Beach and Hamm Beach, but they are found locally, and on the more stable areas of shingle can be abundant. Within the AoS notable species are found in three main area or habitats of the SAC:

a). Chesil Bank – the stabilised sandy-shingle area at Ferrybridge is well vegetated and dominated by Red Fescue *Festuca rubra* and Thrift *Armeria maritima* (MC8) with a much more diverse flora in the more open patches (MC5) including the uncommon annuals Dune Fescue *Vulpia fasciculata*, Four-leaved Allseed *Polycarpon tetraphyllum* and Sand Cat's-tail *Phleum arenarium*. The pleurocarpous moss *Hypnum cupressiforme* var. *lacunosum* is abundant and terricolous lichens are present locally particularly *Cladonia rangiformis* and *Peltigera canina*, with smaller quantities of *Cladonia foliacea*, *C. furcata* subsp. *furcata*, *C. pyxidata* and *Peltigera hymenina*. The uncommon *Thelenella muscorum* was found overgrowing the moss *Ceratodon purpureus* in 2009. None of these species are Red Listed or Nationally Scarce.

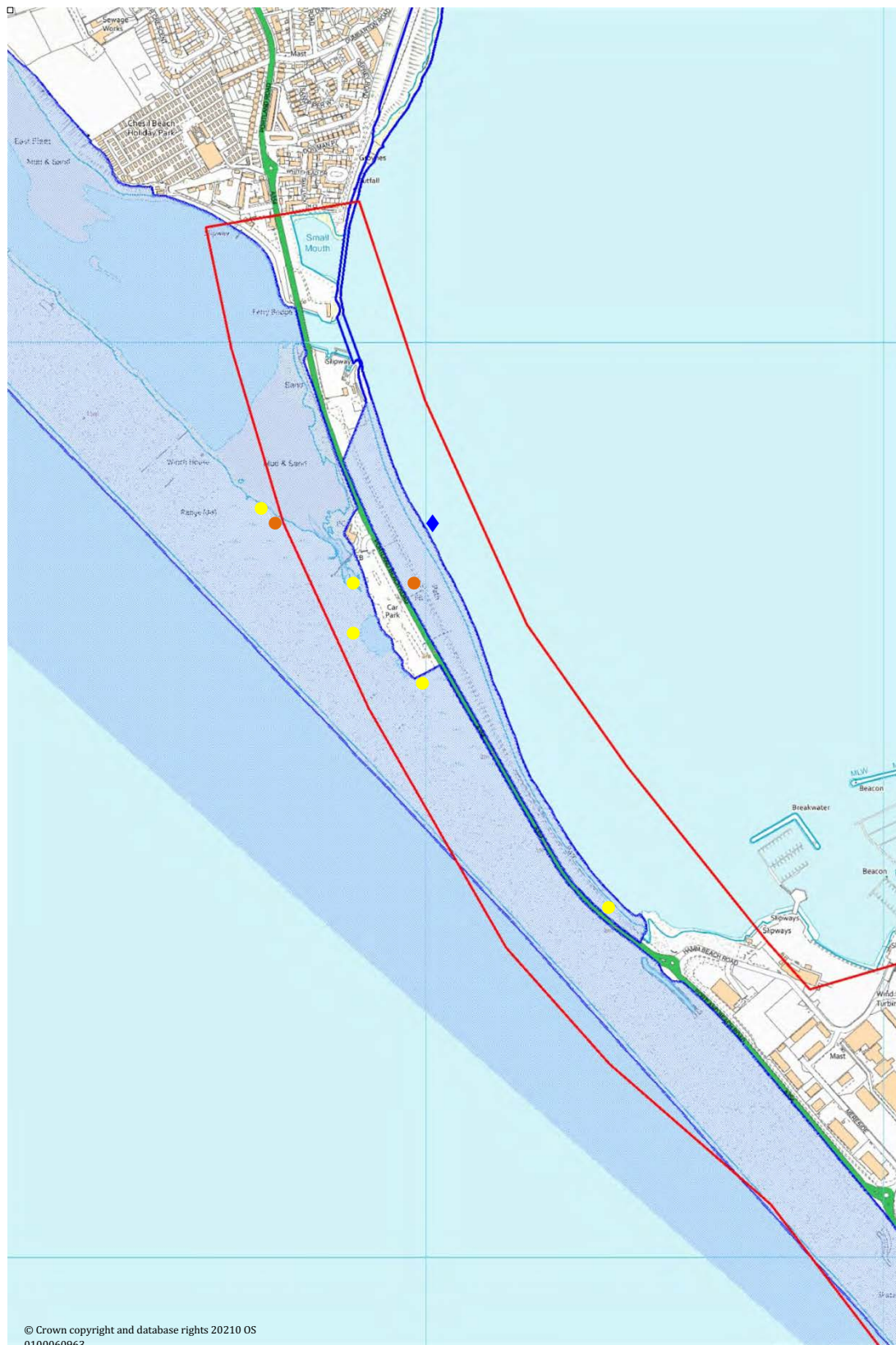
The pebbles around Ferrybridge are generally poor for lichens due to disturbance and the lack of stability, with the common *Xanthoria parietina* the only species found with any frequency. The best areas of stabilised shingle are to the north of the AoS beyond the Tern colony enclosure.

b). Hamm Beach – the more open stands of MC8 and the few very small stands of SD19 support the moss *Syntrichia ruralis* var. *ruraliformis* which is typical of more calcareous sand dunes, with *Hypnum cupressiforme* var. *lacunosum* forming extensive patches in places. Most notable is the acrocarpous *Pleurochaete squarrosa* (NS) which is found as small scattered patches among the *Syntrichia*. *Pleurochaete* is a moss of open calcareous grassland and is currently known from two sites on Portland with around 15 scattered populations in Dorset in short chalk turf. In Britain it is mainly found in Southern England and the coasts of Wales with outlying populations north to Morecombe Bay.

c). SM25 stands – one of the SAC features are the stands of Shrubby Seablite *Suaeda vera* which fringe the Fleet and saltmarsh areas around Ferrybridge. The common yellow leafy lichen *Xanthoria parietina* is abundant on the older stems, and on closer inspection many stems and twigs support the yellow-orange crust-forming species *Caloplaca suaedae* (NT, NR), which was described new to science from specimens collected at Ferrybridge. Within the SAC it is found wherever there are large stands of Shrubby Seablite or very rarely Sea Purslane between Ferrybridge and Abbotsbury, and also on the Hamm Beach towards Osprey Quay. The only other locality in Dorset is from a Shrubby Seablite stand on the southern shore of Poole Harbour. In Britain it is currently only known from saltmarsh-

shingle interfaces in Dorset and North Norfolk, and is thought to be endemic (Smith *et al*, 2009), but may occur in similar habitats in Atlantic and southern Europe.

MAP 7. Location of bryophytes and lichens associated with the vegetated shingle interest



- Interest feature:**
- = Terricolous bryophytes and lichens associated with sandy shingle (MC5 & MC8)
 - = Lichens associated with *Suaeda vera* stands (SM25) (*Caloplaca suaedae*)
 - ◆ = Mollusca associated with shorelines (*Truncatella subcylindrica* & *Paludinella littorina*)

ii). Invertebrates found within the SAC; *Truncatella subcylindrica* and *Paludinella globularis*, and any species associated considered typical of the vegetated shingle habitat

The Fleet and Portland Harbour are noted for their rich marine fauna with many rare and scarce species present. Most are exclusively marine, but the molluscs *Truncatella subcylindrica* and *Paludinella globularis* (Syn. *P. littorina*) can be found at or above Mean High Water in strandline debris and among saltmarsh plants, both are scarce nationally, although are more widely known within suitable habitat than formerly due to better recording.

There are records of *Truncatella subcylindrica* from within the AoS on the shoreline of Portland Harbour at Hamm Beach and the shore of the Fleet at Ferrybridge. Elsewhere in the SAC it is only known from the old salt pans at Grove Point, Portland, and in Dorset there are further sites along the shore of the Fleet and Portland Harbour, plus an unlocalised historical record from the Poole Harbour area.

Paludinella globularis is found in similar habitat and with records from the shore of the Fleet and from Portland Harbour, but there are currently no records from within the AoS. Elsewhere within the SAC it is known the old salt pans at Grove Point and from the shore of West Weare on Portland, with two recent records from Kimmeridge Bay on the Purbeck coast. Apart from these records it also known in Dorset from the shore of the Fleet and Portland Harbour plus an unlocalised historical record from the Poole Harbour area.

Both these molluscs are found along the South Coast from Cornwall to Hampshire with a few records from South Wales. *Truncatella* extends further east to the coast of Sussex, Kent and Essex (NBN Atlas).

Other key invertebrate species

Three species have their sole British location around Ferrybridge, formerly known as Small Mouth Sands.

The darkling beetle *Omophlus pubescens* (VU) has long been known from the area the larvae found in the sandy shingle among the roots of Thrift *Armeria maritima* in open vegetation (Alexander *et al*, 2014), recent surveys have only found it in one area to the northwest of the Chesil Centre close to the AoS, there are older records from within the AoS.

Another darkling beetle *Anthicus tristis* (VU) was formerly found more widely along the South Coast in sandy habitats close to brackish or saline waters (Alexander *et al*, 2014). The only recent UK records are from Ferrybridge, one from 2014 southeast of Chesil Centre is within the AoS.

The micromoth *Scythris siccella* Least Owlet (S41) is only known in the UK from Hamm Beach where it is found in sparsely vegetated sandy habitats. The larvae feed on various herbaceous plants making a

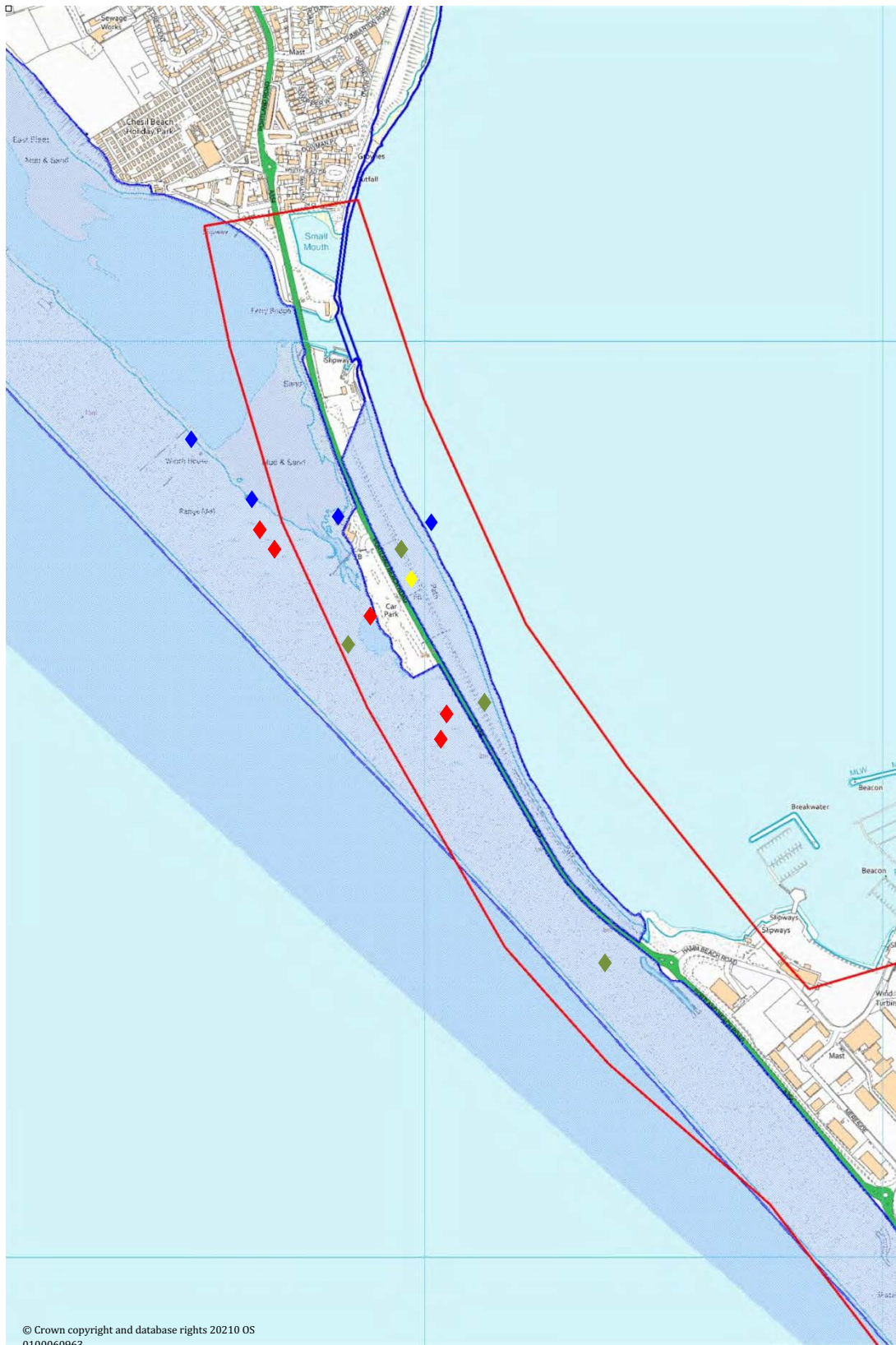
silken tube covered in sand grains down into the sand. Despite recent small-scale management and survey work there have been records of the moth in recent years, however it is too early to say whether the species is extinct or not. The site for this moth is within the AoS.

A well known species from the Ferrybridge area is **Scaly Cricket *Pseudmogoplistes vicentae*** (VU) which is a shingle specialist and is largely nocturnal and hiding under cobbles during the day. Thought to be confined to the Ferrybridge area it has now been found more widely along the Chesil Bank towards Abbotsbury. All Dorset sites are within the Chesil and the Fleet SAC. Apart from Chesil there are currently only two other known sites in Britain at Branscombe in Devon and at Marloes, Pembrokeshire.

***Hylaeus annularis* Shingle Yellow-face Bee** (NR) is a small black bee with yellow face markings confined to vegetated shingle habitats in Britain and is currently known in Britain from a handful of shingle sites from Dorset east to Suffolk. The bee has been found at flowers of Sea Mayweed and Wild Carrot and nest in dead hollow plant stems or in the ground (Else & Edwards, 2018) Within the AoS it has been found by the Chesil Centre and further south on the Chesil side of the road. All confirmed Dorset records are from the Chesil and the Fleet SAC and SSSI.

Phlegra fasciata (NT) is a small jumping spider found in coastal sand dune and sandy shingle sites along the South Coast from Devon to Kent and on the Gower Peninsula in South Wales. In Dorset it has been recorded from Chesil Beach and from Arne and Studland on the southern shore of Poole Harbour. It is uncertain whether the Chesil records are from within the AoS but one is from the Ferrybridge area.

MAP 7. Location of invertebrates associated with vegetated shingle interest feature



- Interest feature:**
- ◆ = Mollusca associated with shorelines (*Truncatella subcylindrica* & *Paludina littorina*)
 - ◆ = Beetles; *Anthicus tristis* and *Omophlus pubescens*
 - ◆ = Micromoth; *Scythris sicella*
 - ◆ = Orthoptera; Grey Bush-cricket and Lesser Cockroach

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Appendix 3: Photographs



Photo 1: Roadside mixed Sonchus SD1 community looking south towards Isle of Portland. Note footway between road edge and SAC.



Photo 2: SD1 Arrhenatherum community on raised bank forming edge of road.



Photo 3: SD1 Arrhenatherum community south of Osprey Quay.



Photo 4: Scrub cover in Unit 33 above the Royal Naval cemetery - Isle of Portland to Studland Cliffs SAC.



Photo 5: Scrub cover in Unit 33 looking north towards application site from footpath - Isle of Portland to Studland Cliffs SAC.



Photo 6: Rock samphire establishing on loose shingle within a few metres of footway on A354 adjacent to Osprey Quay.



Photo 7: Sea campion growing on loose shingle within a few metres of footway on A354 adjacent to Osprey Quay.



Photo 8: SD1 Arrhenatherum and mixed Sonchus communities west of A354 and Osprey Quay.



Photo 9: SD1 Arrhenatherum and mixed Sonchus communities west of A354 and Osprey Quay.



Photo 10: SD1 Arrhenatherum and mixed Sonchus communities west of A354 and Osprey Quay.



Photo 11: SD1 Arrhenatherum community at southern end of A354 (north of car park and skate park).



Photo 12: Flood alleviation channel within Chesil and the Fleet SAC.



Photo 13: Area of vegetated coastal shingle present between A354 and flood alleviation channel opposite Osprey Quay.



Photo 14: Evidence of utilities within vegetated coastal shingle habitat within Chesil and the Fleet SAC.



Photo 15: Evidence of utilities within vegetated coastal shingle habitat within Chesil and the Fleet SAC.



Photo 16: Height of road above surrounding habitats (taken from Chesil Beach car park which is outside the SAC).



Photo 17: Height of road above surrounding habitats. Coastal vegetated shingle has formed on banking of road. Rock samphire establishing on loose shingle.



Photo 18: Raised bank formed alongside footway north of Osprey Quay.



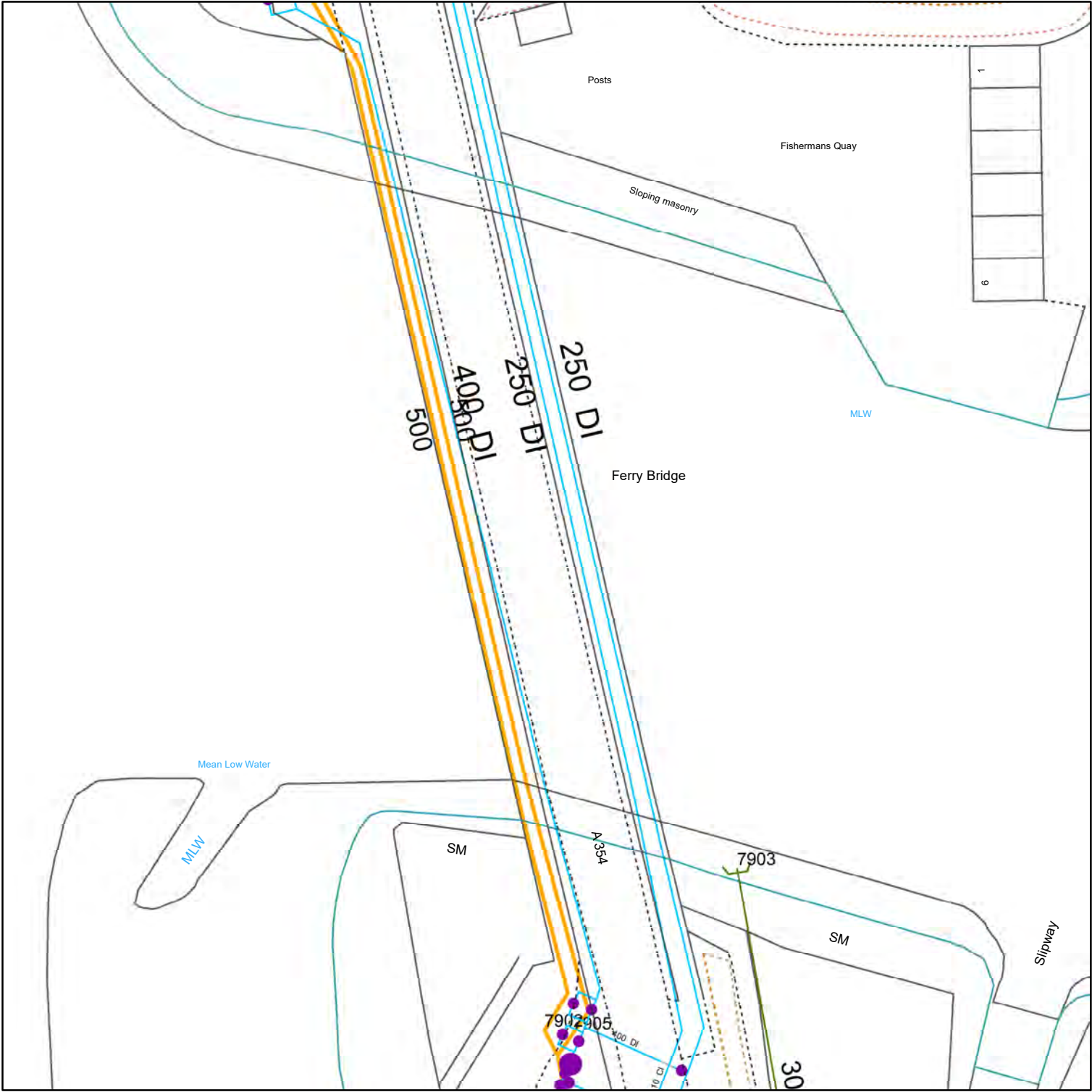
Photo 19: MC5 grassland growing on banks of A354 (eastern side of carriageway).



Photo 20: Eastern side of A354 showing MC5 and SM25 habitat occurring between A354 and disused railway bed. SM25 has formed in drainage channel.

Appendix 4: Utilities

Wessex Water Network Map



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WATER MAINS	SEWERS	STRATEGIC PUBLIC	PRIVATE	SECTION 104	OTHER WESSEX PIPES	NON-WESSEX / UNKNOWN
<ul style="list-style-type: none"> — Distribution — Washout - - - Raw Water Abandoned - - - - - Private 	<ul style="list-style-type: none"> — Foul — Surface — Combined — Abandoned 	<ul style="list-style-type: none"> — — — x x x 	<ul style="list-style-type: none"> — — — x x x 	<ul style="list-style-type: none"> — Rising Mains — EDM — Overflow — S 	<ul style="list-style-type: none"> - - - - - Private Rising Mains - - - - - Culverted Watercourse — Highway Drain — ? — SU 	
FITTINGS <ul style="list-style-type: none"> ● Hydrant ● Other 	STRUCTURES <ul style="list-style-type: none"> ● Manhole - Foul ○ Manhole - Surface ○ Manhole - Combined - - - Inlet - - - Outfall ■ Lamphole ■ Bifurcation - Foul ■ Bifurcation - Surface ■ Bifurcation - Combined ■ Combined Sewage Overflow 	<ul style="list-style-type: none"> △ Pumping Station - Surface △ Pumping Stn - Foul/Combined □ Gully □ Vent Column □ Rodding Eye □ Catchpit □ Flushing Chamber □ Soakaway □ Non Return Valve □ Air Valve □ Hatch Box x Washout 	OTHER STRUCTURES <ul style="list-style-type: none"> ■ Attenuation Tank ■ Storage Tank ■ Chamber ■ Tunnel ■ Interceptor 			

Information in this map is provided for identification purposes only. No warranty as to accuracy is given or implied. The precise route of pipe work may not exactly match that shown. Wessex Water does not accept liability for inaccuracies. Sewers and lateral drains adopted by Wessex Water under the Water Industry (Schemes for Adoption of Private Sewers) Regulations 2011 are to be plotted over time and may not yet be shown. In carrying out any works, you accept liability for the cost of any repairs to Wessex Water apparatus damaged as a result of your works. You are advised to commence excavations using hand tools only. Mechanical digging equipment should not be used until pipe work has been precisely located. If you are considering any form of building works and pipe work is shown within the boundary of your property or a property to be purchased (or very close by) a surveyor should plot its exact position prior to commencing works or purchase. If you are proposing to build over or near Wessex Water's apparatus you should contact the Developer Services Team, tel: 01225 526333 or e-mail: developer.enquiries@wessexwater.co.uk to discuss your proposals. Details of assets within Wessex Water's land ownership are unavailable through this service.

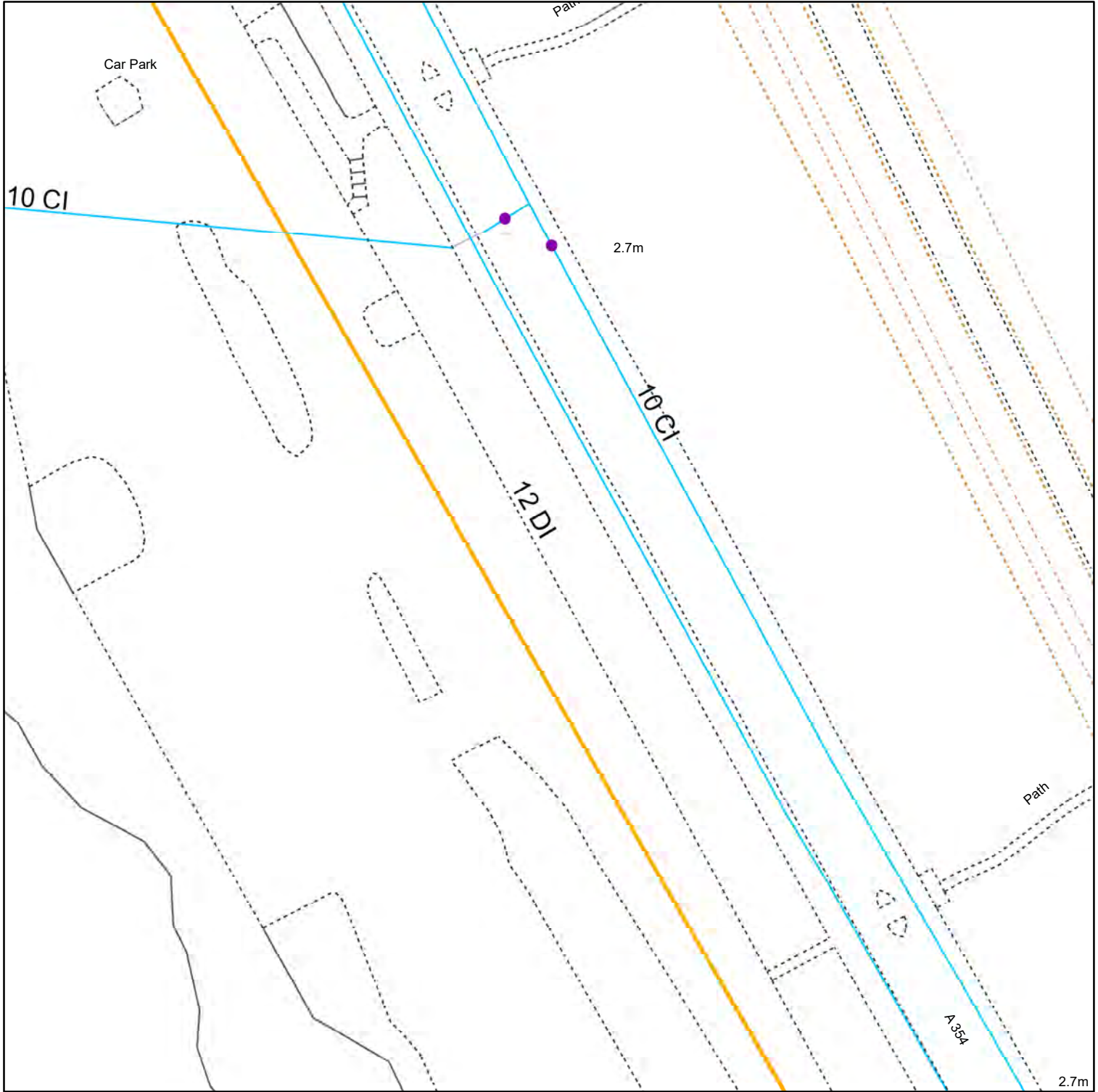
Wessex Water
YTL GROUP

Date: 11/06/2021

Centre: 366735, 76028

Scale: 1:625
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Wessex Water Network Map




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WATER MAINS	SEWERS	STRATEGIC	PUBLIC	PRIVATE	SECTION 104	OTHER WESSEX PIPES	NON-WESSEX / UNKNOWN
<ul style="list-style-type: none"> — Distribution — Washout - - - Raw Water - - - Abandoned - - - Private 	<ul style="list-style-type: none"> — Foul — Surface — Combined — Abandoned 	<ul style="list-style-type: none"> — Strategic 	<ul style="list-style-type: none"> — Public 	<ul style="list-style-type: none"> — Private 	<ul style="list-style-type: none"> — Section 104 	<ul style="list-style-type: none"> — Rising Mains — EDM Effluent Disposal — Overflow — S Syphon 	<ul style="list-style-type: none"> — Private Rising Mains — CW Culverted Watercourse — H Highway Drain — ? Use Unknown — SU Status Unknown
FITTINGS <ul style="list-style-type: none"> ● Hydrant ● Other 	STRUCTURES <ul style="list-style-type: none"> ● Manhole - Foul ○ Manhole - Surface ○ Manhole - Combined — Inlet — Outfall — Lamphole — Bifurcation - Foul — Bifurcation - Surface — Bifurcation - Combined — Combined Sewage Overflow 	<ul style="list-style-type: none"> △ Pumping Station - Surface ▲ Pumping Stn - Foul/Combined □ Gully ■ Vent Column ● Rodding Eye ● Catchpit ● Flushing Chamber ● Soakaway ● Non Return Valve ● Air Valve ■ Hatch Box × Washout 	OTHER STRUCTURES <ul style="list-style-type: none"> ■ Attenuation Tank ■ Storage Tank □ Chamber ■ Tunnel ■ Interceptor 				

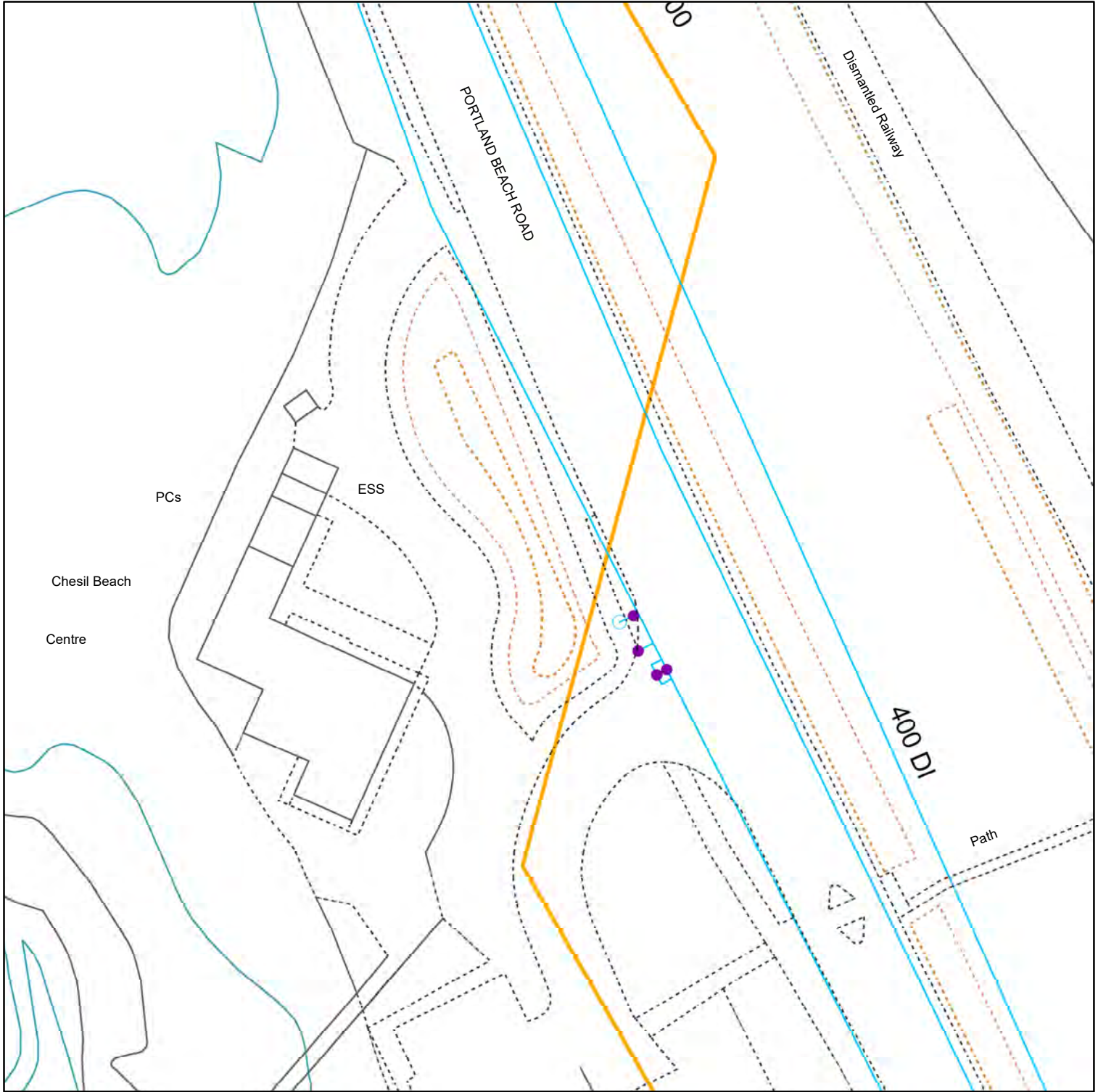
Information in this map is provided for identification purposes only. No warranty as to accuracy is given or implied. The precise route of pipe work may not exactly match that shown. Wessex Water does not accept liability for inaccuracies. Sewers and lateral drains adopted by Wessex Water under the Water Industry (Schemes for Adoption of Private Sewers) Regulations 2011 are to be plotted over time and may not yet be shown. In carrying out any works, you accept liability for the cost of any repairs to Wessex Water apparatus damaged as a result of your works. You are advised to commence excavations using hand tools only. Mechanical digging equipment should not be used until pipe work has been precisely located. If you are considering any form of building works and pipe work is shown within the boundary of your property or a property to be purchased (or very close by) a surveyor should plot its exact position prior to commencing works or purchase. If you are proposing to build over or near Wessex Water's apparatus you should contact the Developer Services Team, tel: 01225 526333 or e-mail: developer.enquiries@wessexwater.co.uk to discuss your proposals. Details of assets within Wessex Water's land ownership are unavailable through this service.



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Wessex Water Network Map



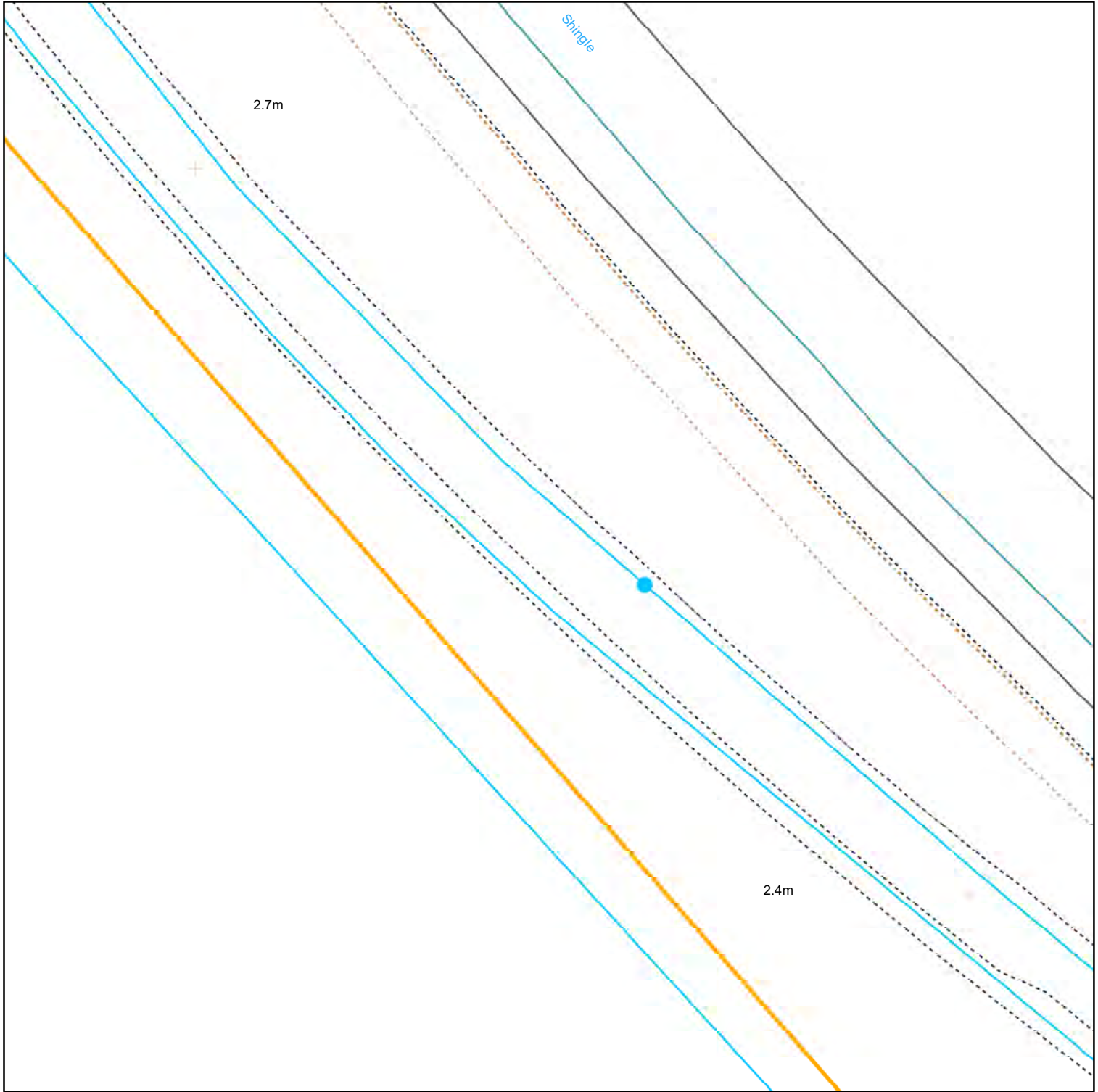
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WATER MAINS	SEWERS	STRATEGIC PUBLIC	PRIVATE	SECTION 104	OTHER WESSEX PIPES	NON-WESSEX / UNKNOWN
<ul style="list-style-type: none"> Distribution Washout Raw Water Abandoned Private 	<ul style="list-style-type: none"> Foul Surface Combined Abandoned <p>Colours generally indicate the use of the sewer/drain (i.e Red - Foul, Dark Blue - Surface, Magenta - Combined/Dual Use, Light Green - Highway Drain, Mid Green - Overflow).</p> <p>Some styles of line and symbol are shown on the key in sample/typical colours.</p>	<ul style="list-style-type: none"> Red line with arrow Blue line with arrow Purple line with arrow Red line with 'x' Purple line with 'x' Blue line with 'x' 	<ul style="list-style-type: none"> Red dashed line with arrow Blue dashed line with arrow Purple dashed line with arrow Red dashed line with 'x' Purple dashed line with 'x' Blue dashed line with 'x' 	<ul style="list-style-type: none"> Rising Mains EDM Overflow Syphon 	<ul style="list-style-type: none"> Private Rising Mains Culverted Watercourse Highway Drain Use Unknown Status Unknown 	
FITTINGS	STRUCTURES	OTHER STRUCTURES				
<ul style="list-style-type: none"> Hydrant Other 	<ul style="list-style-type: none"> Manhole - Foul Manhole - Surface Manhole - Combined Inlet Outfall Lamphole Bifurcation - Foul Bifurcation - Surface Bifurcation - Combined Combined Sewage Overflow 	<ul style="list-style-type: none"> Chamber Tunnel Interceptor 	<ul style="list-style-type: none"> Pumping Station - Surface Pumping Stn - Foul/Combined Gully Vent Column Rodding Eye Catchpit Flushing Chamber Soakaway Non Return Valve Air Valve Hatch Box Washout 			

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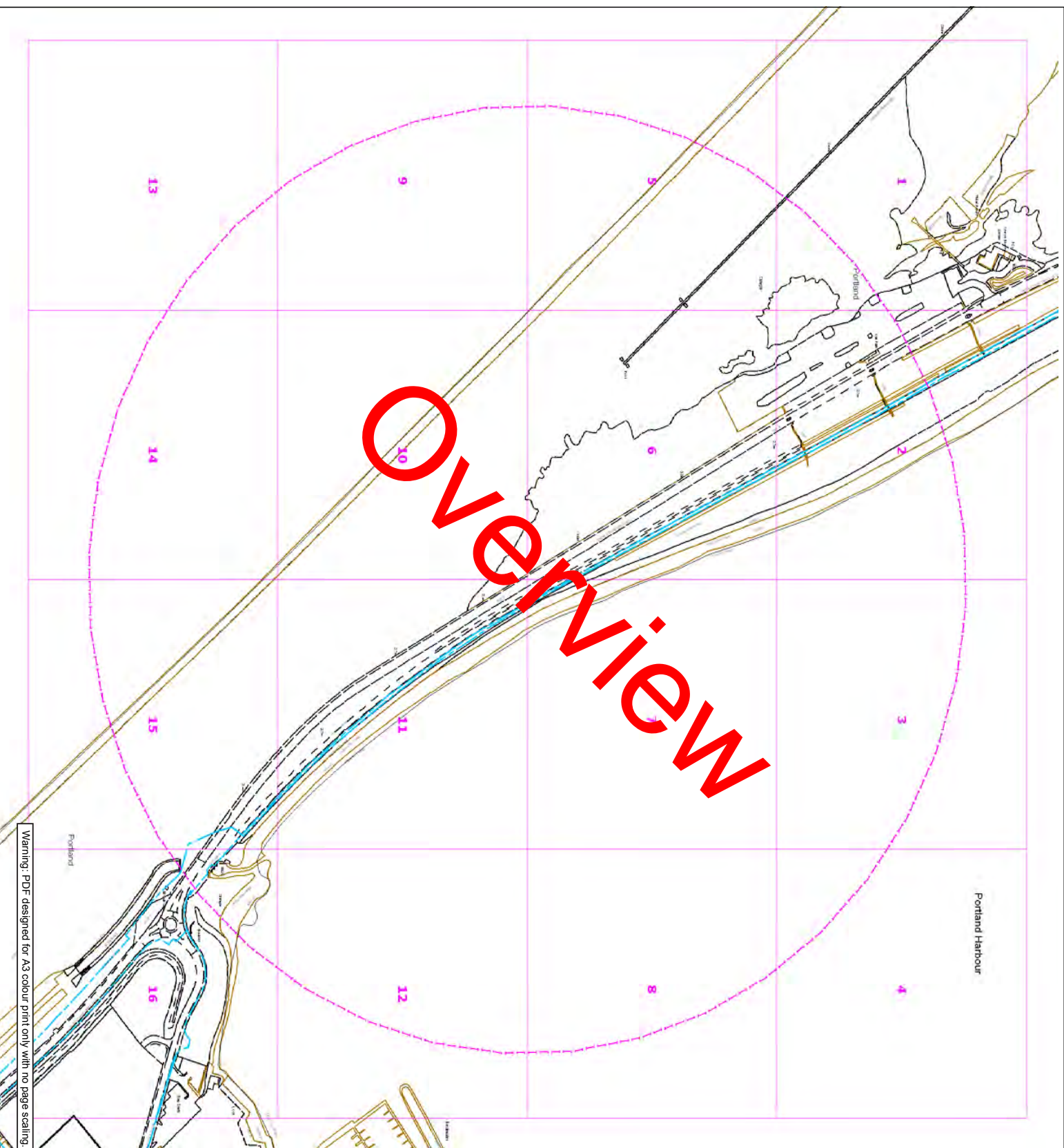
Date: 11/06/2021
Centre: 366864, 75593
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Wessex Water Network Map



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WATER MAINS	SEWERS	STRATEGIC	PUBLIC	PRIVATE	SECTION 104	OTHER WESSEX PIPES	NON-WESSEX / UNKNOWN	
<ul style="list-style-type: none"> Distribution Washout Raw Water Abandoned Private 	<ul style="list-style-type: none"> Foul Surface Combined Abandoned 	<ul style="list-style-type: none"> Red arrow Blue arrow Purple arrow 	<ul style="list-style-type: none"> Red arrow Blue arrow Purple arrow 	<ul style="list-style-type: none"> Red arrow Blue arrow Purple arrow 	<ul style="list-style-type: none"> Red arrow Blue arrow Purple arrow 	<ul style="list-style-type: none"> Rising Mains EDM Effluent Disposal Overflow Syphon 	<ul style="list-style-type: none"> Private Rising Mains Culverted Watercourse Highway Drain Use Unknown Status Unknown 	
FITTINGS <ul style="list-style-type: none"> Hydrant Other 	<ul style="list-style-type: none"> Manhole - Foul Manhole - Surface Manhole - Combined Inlet Outfall Lamphole Bifurcation - Foul Bifurcation - Surface Bifurcation - Combined Combined Sewage Overflow 	<ul style="list-style-type: none"> Pumping Station - Surface Pumping Stn - Foul/Combined Gully Vent Column Rodding Eye Catchpit Flushing Chamber Soakaway Non Return Valve Air Valve 	<ul style="list-style-type: none"> Hatch Box Washout 	<ul style="list-style-type: none"> Attenuation Tank Storage Tank 	<ul style="list-style-type: none"> Chamber Tunnel Interceptor 	<div style="text-align: center;"> </div>		
<p>Information in this map is provided for identification purposes only. No warranty as to accuracy is given or implied. The precise route of pipe work may not exactly match that shown. Wessex Water does not accept liability for inaccuracies. Sewers and lateral drains adopted by Wessex Water under the Water Industry (Schemes for Adoption of Private Sewers) Regulations 2011 are to be plotted over time and may not yet be shown. In carrying out any works, you accept liability for the cost of any repairs to Wessex Water apparatus damaged as a result of your works. You are advised to commence excavations using hand tools only. Mechanical digging equipment should not be used until pipe work has been precisely located. If you are considering any form of building works and pipe work is shown within the boundary of your property or a property to be purchased (or very close by) a surveyor should plot its exact position prior to commencing works or purchase. If you are proposing to build over or near Wessex Water's apparatus you should contact the Developer Services Team, tel: 01225 526333 or e-mail: developer.enquiries@wessexwater.co.uk to discuss your proposals. Details of assets within Wessex Water's land ownership are unavailable through this service.</p>							<p>Date: 11/06/2021</p> <p>Centre: 367368, 74762</p> <p>Scale: 1:625 (when printed at A4 size)</p>	



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Date Requested: 11/06/2021
 Job Reference: 22379388
 Site Location: 367175 75049
 Requested by:
 Mr Rory Casey
 Your Scheme Reference:
 Portland Beach Road

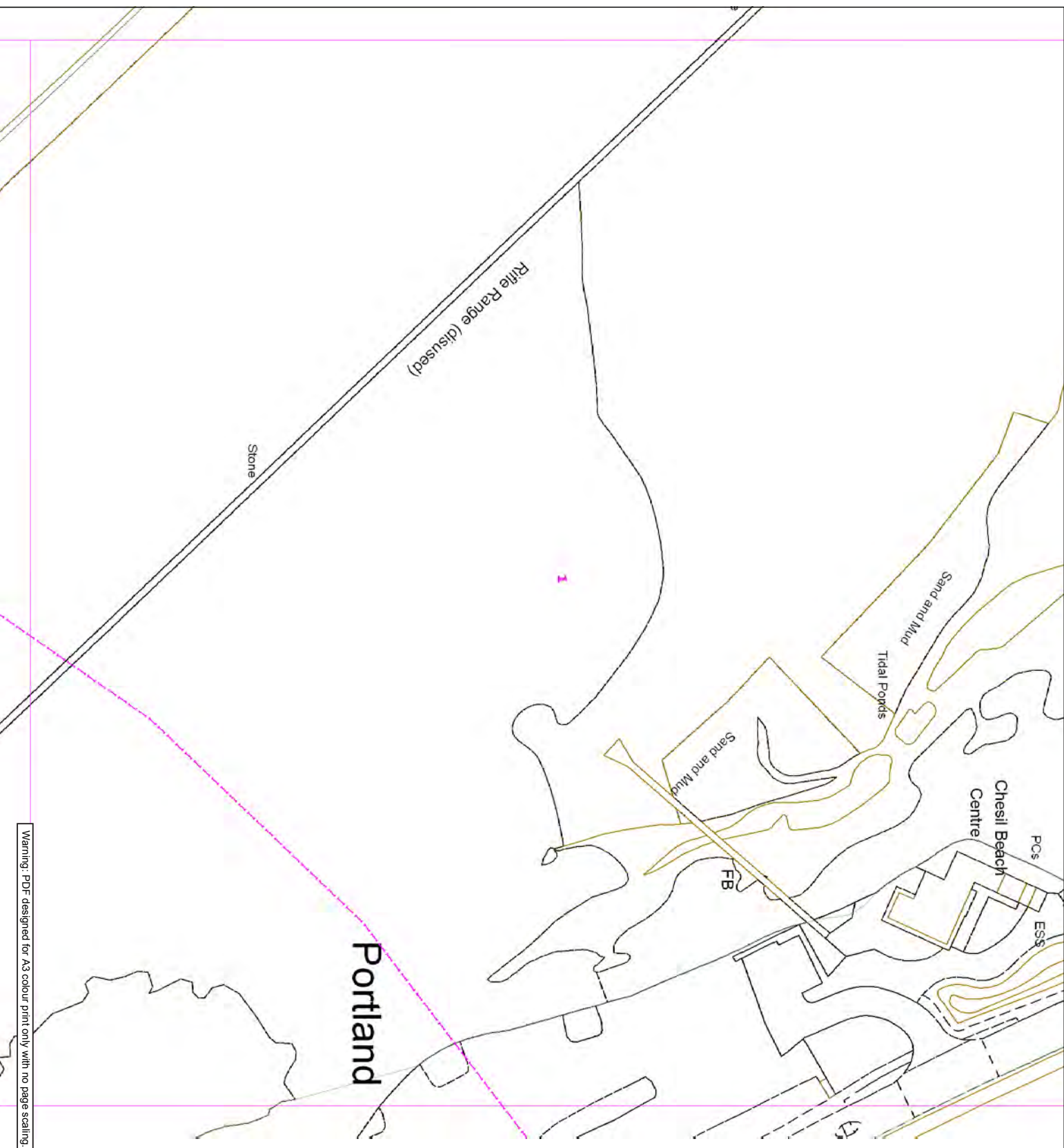
This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections etc are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging practices, in accordance with HS (G47), must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

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- Low Pressure Mains
- Medium Pressure Mains
- Intermediate Pressure Mains
- High Pressure Mains
- GTs
- LAS
- Some Examples Of Plant Items
- Valve
- Siphon
- Depth of Cover
- Diameter Change
- Material Change
- Digsite
- Line:
- Area:



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 Site Location: 367175 75049
 Requested by:
 Mr Roy Casey
 Your Scheme/Reference:
 Portland Beach Road
 Exact Scales:
 1:1000 Area or Circle dig site
 1:1000 Line dig site

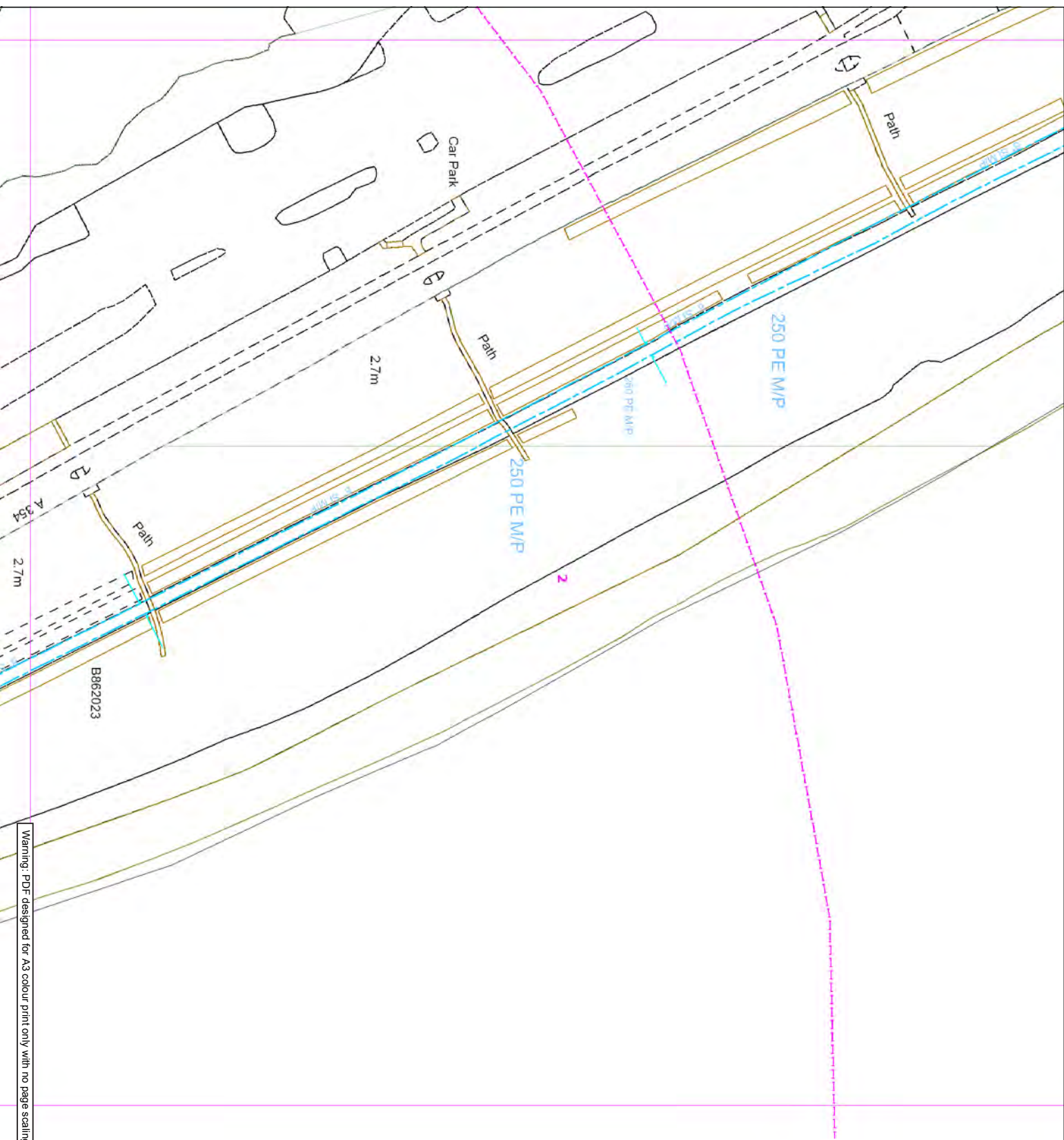
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Low Pressure Mains		SSSIS	
Medium Pressure Mains		Some Examples of Hazards	
Intermediate Pressure Mains		Valve	
High Pressure Mains		Siphon	
LAS		Cover	
GTS		Depth of Change	
		Diameter Change	
		Material Change	
Digsite: Line:		Area:	



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 Job Reference: 22379388
 Site Location: 36717575049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference:
 Portland Beach Road
 Exact Scales:
 1:1000 Area or Circle dig site
 1:1000 Line dig site

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Low Pressure Mains		SSSIS	
Medium Pressure Mains		GTs	
Intermediate Pressure Mains		LAS	
High Pressure Mains		Some Examples Of Plant Items	
		Valve	Depth of Cover
		Siphon	Diameter Change
		Cover	Material Change
Digsite: Line:	Area:		



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 Mr Rory Casey
 Your Scheme/Reference:
 Portland Beach Road
 Exact Scales:
 1:1000 Area or Circle dig site
 1:1000 Line dig site

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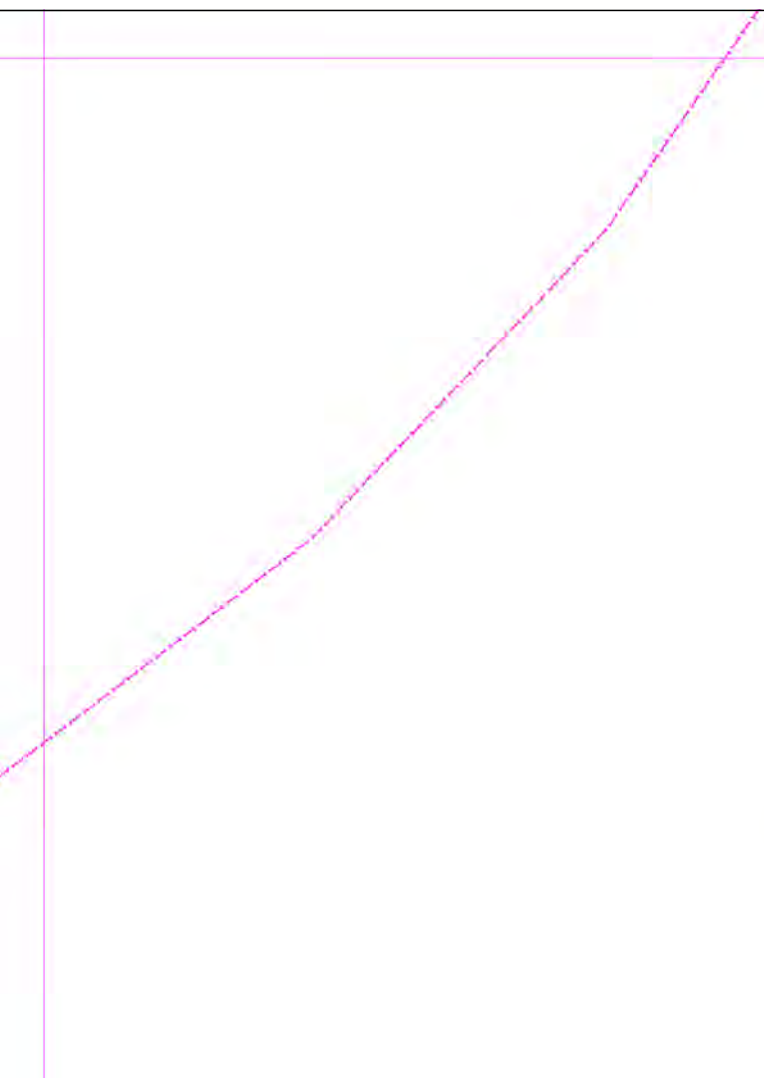
- Low Pressure Mains
 - Medium Pressure Mains
 - Intermediate Pressure Mains
 - High Pressure Mains
 - LAS
 - GTS
- Some Examples Of Plant Items
- Valve
 - Siphon
 - Cover
- Digsite: Line: Area:



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Portland Harbour



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General Enquiries: All areas

Date Requested: 11/06/2021
 Job Reference: 22379388
 Site Location: 3657175 75049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference:
 Portland Beach Road
 Exact Scales:
 1:1000 Area or Circle dig site
 1:1000 Line dig site

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- Low Pressure Mains
 - Medium Pressure Mains
 - Intermediate Pressure Mains
 - High Pressure Mains
 - LAS
 - GTS
- SSSIS
- Some Examples Of Plant Items
- Valve
 - Siphon
 - Cover
- Digsite: Line: Area:
- Depth of Change
 - Diameter Change
 - Material Change



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Shingle



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General Enquiries: All areas

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 Job Reference: 22379388
 Site Location: 367175 75049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference:
 Portland Beach Road
 Exact Scales:
 1:1000 Area or Circle dig site
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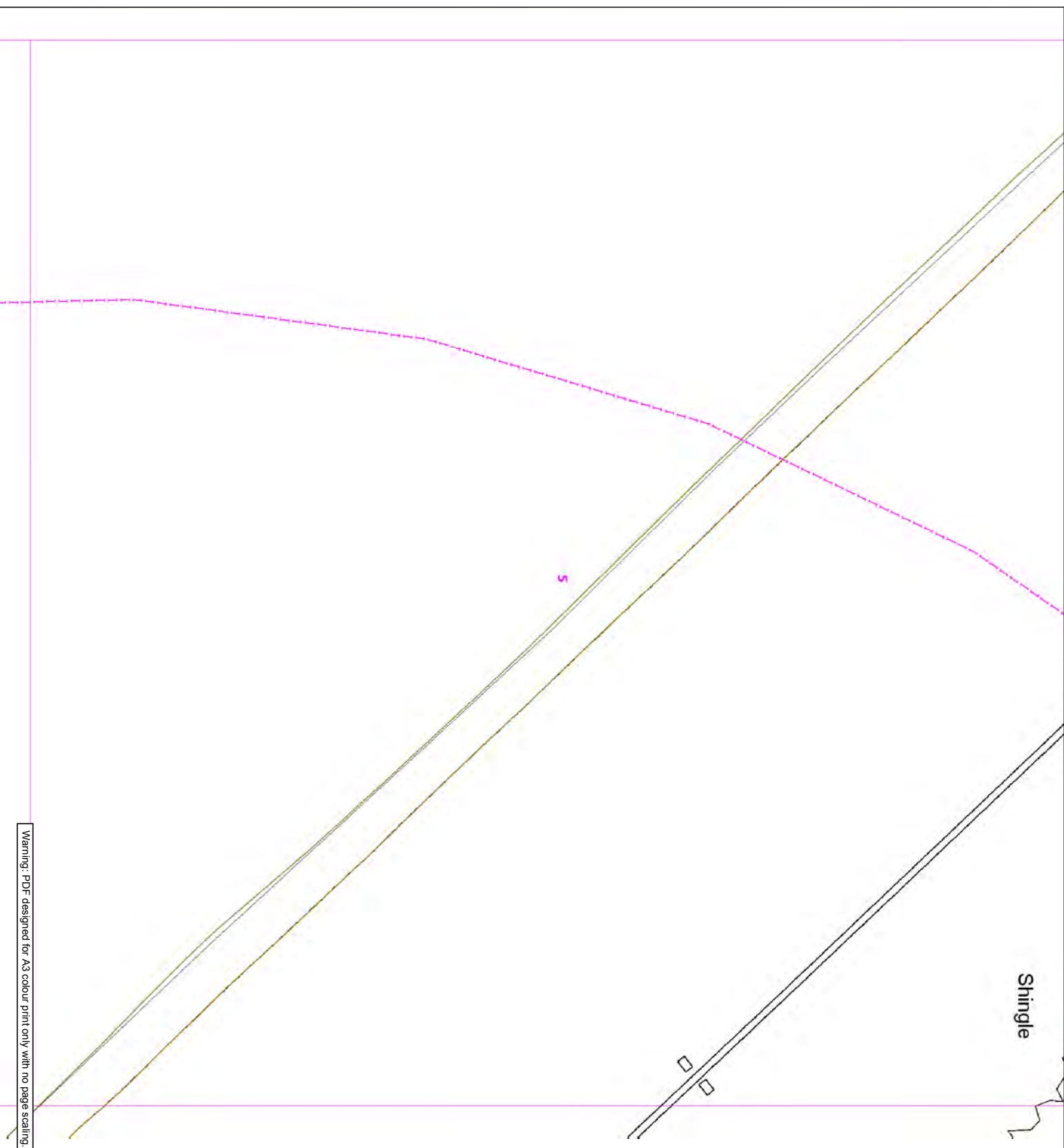
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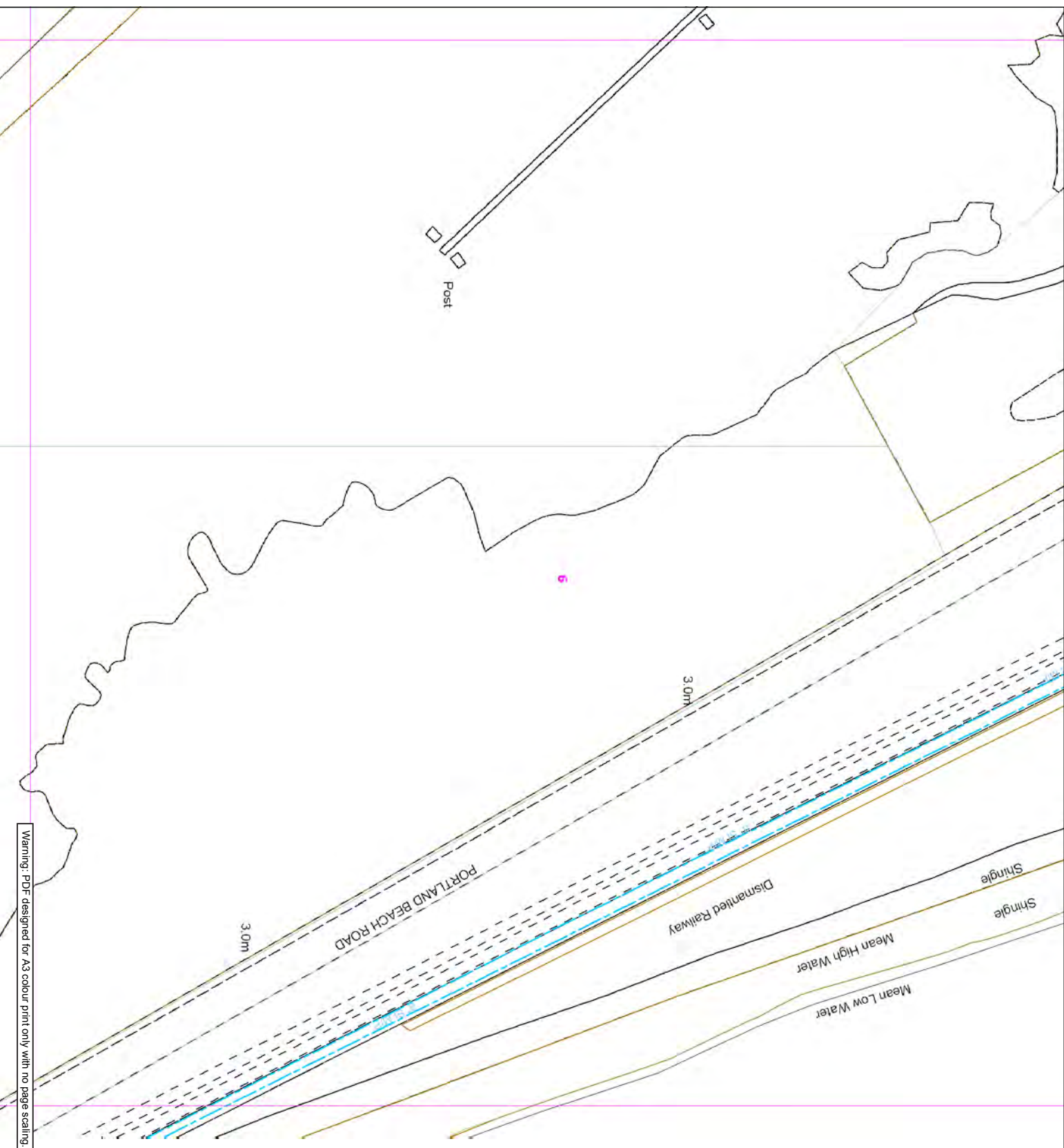
- Low Pressure Mains
 - Medium Pressure Mains
 - Intermediate Pressure Mains
 - High Pressure Mains
 - LAS
 - GTS
- SSSIS
 - Some Examples Of Plant/Items
 - Valve
 - Siphon
 - Cover
 - Depth of Change
 - Diameter Change
 - Material Change
- Digsite: Line: Area:



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Date Requested: 11/06/2021
 Job Reference: 22379388
 Site Location: 36717575049
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 Mr Roy Casey
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 Portland Beach Road
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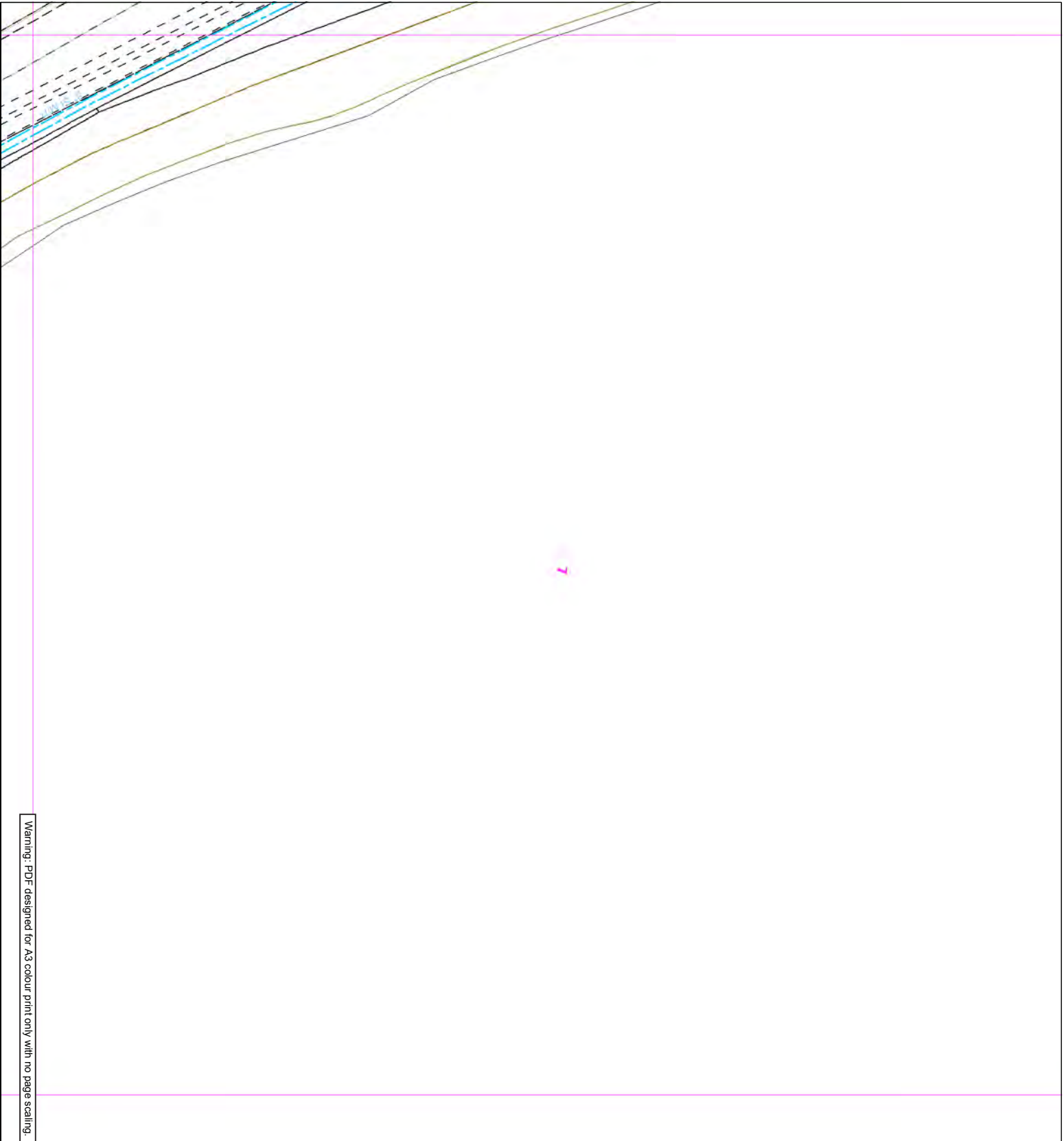
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Low Pressure Mains		SSSIS	
Medium Pressure Mains		GTs	
Intermediate Pressure Mains		LAS	
High Pressure Mains		Some Examples of Part Items	
		Valve	
		Siphon	
		Cover	
		Depth of Change	
		Diameter Change	
		Material Change	
Digsite: Line:		Area:	



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Contact Us
Mapping Enquiries: All areas
General Enquiries: All areas

Date Requested: 11/06/2021
 Job Reference: 22379388
 Site Location: 367175 75049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference:
 Portland Beach Road
 Exact Scales:
 1:1000 Area or Circle dig site
 1:1000 Line dig site

This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections etc. are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging practices, in accordance with HS (G47), must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
 0800 111 999

- Low Pressure Mains
 - Medium Pressure Mains
 - Intermediate Pressure Mains
 - High Pressure Mains
 - LAs
 - GTS
- Some Examples Of Plant Items
- Valve
 - Siphon
 - Cover
 - Depth of Change
 - Diameter Change
 - Material Change
- Digsite: Line: Area:



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Date Requested: 11/06/2021
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- Low Pressure Mains
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- Valve
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Contact Us
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General Enquiries: All areas

Date Requested: 11/06/2021
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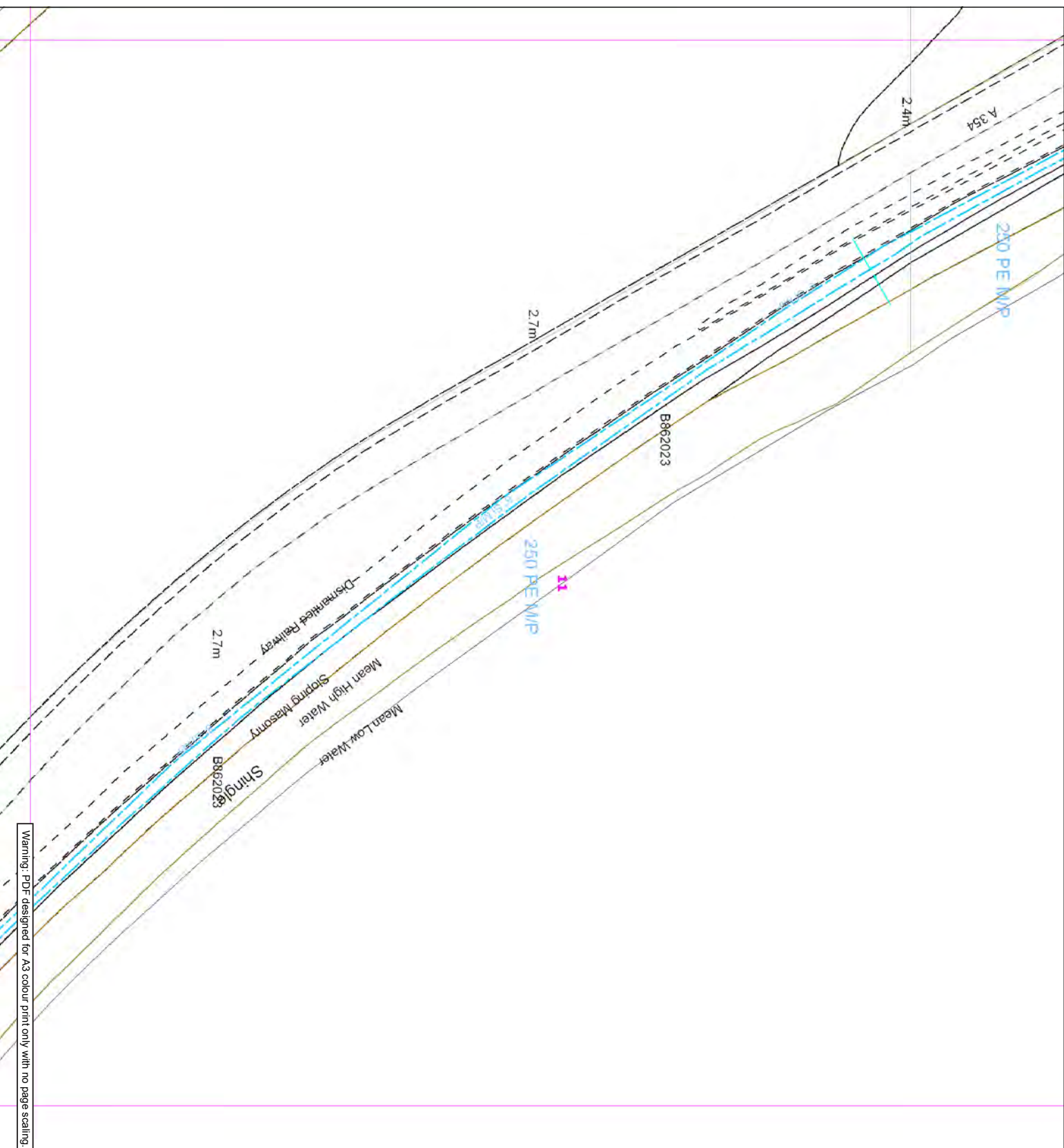
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- Low Pressure Mains
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 - High Pressure Mains
 - LAS
 - GTS
- Some Examples Of Plant Items
- Valve
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 - Cover
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Low Pressure Mains		SSSIS	
Medium Pressure Mains		GTs	
Intermediate Pressure Mains		LAS	
High Pressure Mains		Some Examples Of Hazards	
		Valve	
		Siphon	
		Cover	
		Depth of	
		Diameter	
		Change	
		Material	
		Change	
Digsite: Line:		Area:	



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Contact Us
Mapping Enquiries: All areas

General Enquiries: All areas

Date Requested: 11/06/2021
 Job Reference: 22379388
 Site Location: 367175 75049
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 Mr Rory Casey
 Your Scheme/Reference:
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- Low Pressure Mains
 - Medium Pressure Mains
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 - LAS
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- Some Examples Of Plant Items
- Valve
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 - Cover
- Digsite: Line: Area:



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10m



Contact Us
Mapping Enquiries: All areas
General Enquiries: All areas

Date Requested: 11/06/2021
 Job Reference: 22379388
 Site Location: 3657175 75049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference:
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 Exact Scales:
 1:1000 Area or Circle dig site
 1:1000 Line dig site

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- LAS
- GTS
- Some Examples Of Plant Items
- Valve
- Siphon
- Cover
- Depth of Change
- Diameter Change
- Material Change



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Contact Us
Mapping Enquiries: All areas
General Enquiries: All areas

Date Requested: 11/06/2021
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 Site Location: 367175 75049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference:
 Portland Beach Road
 Exact Scales:
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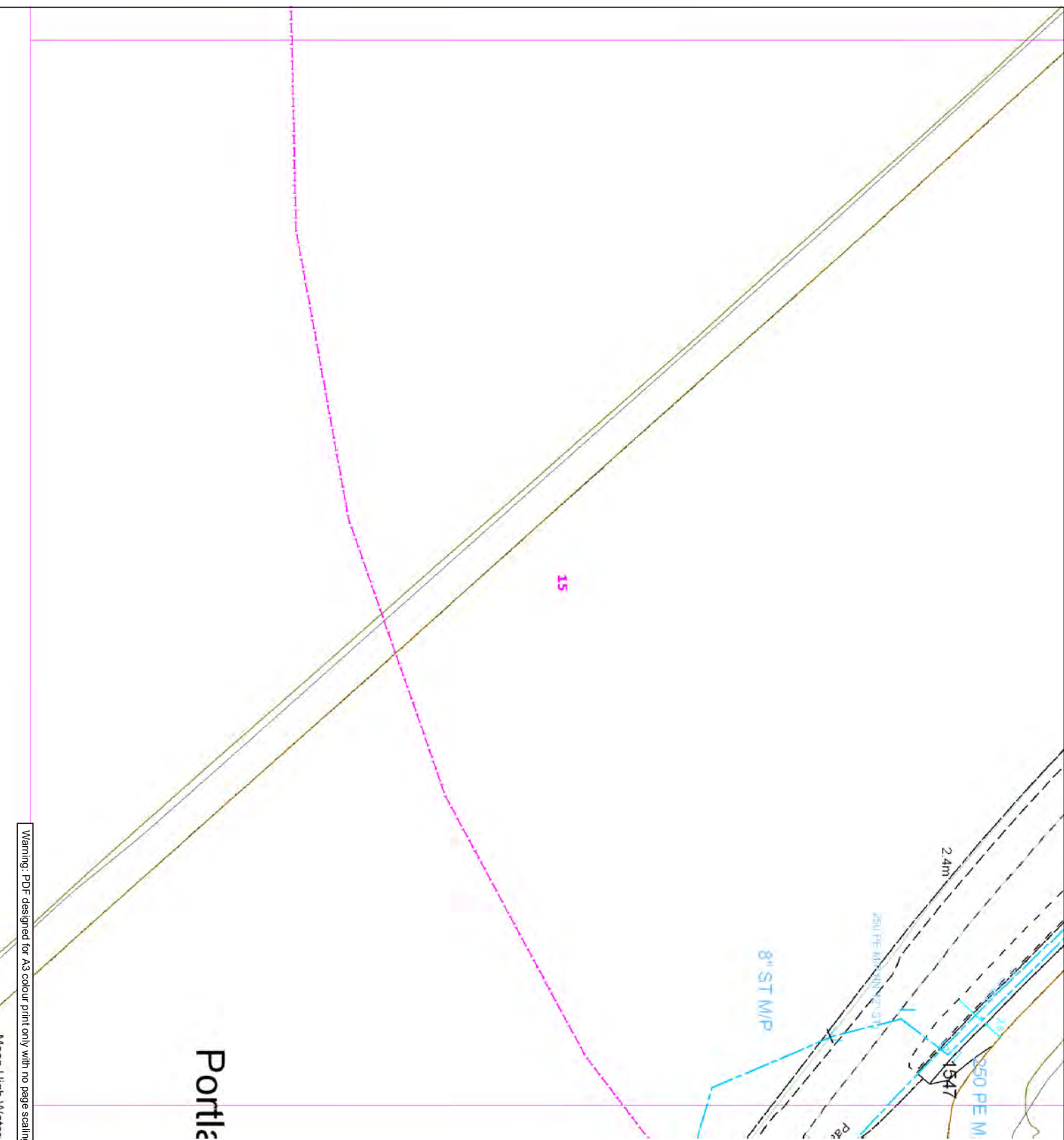
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- Low Pressure Mains
 - Medium Pressure Mains
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 - LAS
 - GTS
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- Some Examples Of Plant Items
- Valve
 - Siphon
 - Cover
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- Digsite: Line: Area:



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Contact Us
Mapping Enquiries: All areas

General Enquiries:
All areas

Date Requested: 11/06/2021
Job Reference: 22379388
Site Location: 367175 75049
Requested by:
Mr Rory Casey
Your Scheme/Reference:
Portland Beach Road
Exact Scales:
1:1000 Area or Circle dig site
1:1000 Line dig site


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Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
0800 111 999

Low Pressure Mains		SSSIS	
Medium Pressure Mains		GTs	
Intermediate Pressure Mains		Some Examples Of Plant Items	
High Pressure Mains		Valve	
LAS		Siphon	
GTs		Cover	

Digsite: Line: Area:

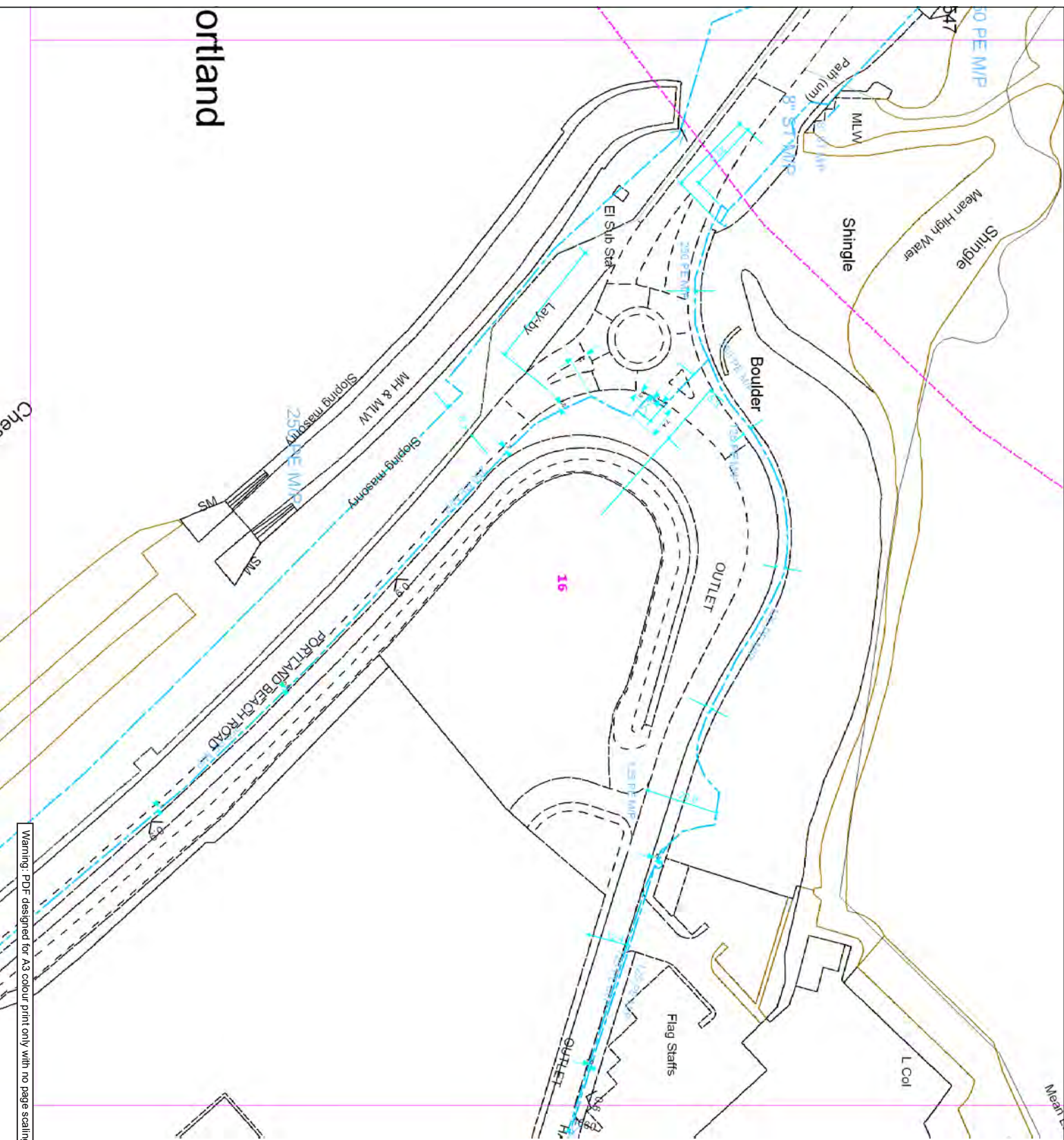
Depth of Change Material Change



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Mason Wick, Wlaka



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Contact Us
 Mapping Enquiries: All areas
 General Enquiries: All areas

Date Requested: 11/06/2021
 Job Reference: 22379388
 Site Location: 36717575049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference:
 Portland Beach Road
 Exact Scales:
 1:1000 Area or Circle dig site
 1:1000 Line dig site

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Low Pressure Mains		SSSIS	
Medium Pressure Mains		Depth of	
Intermediate Pressure Mains		Siphon	
High Pressure Mains		Cover	
LAS		Diameter Change	
GTS		Material Change	

Some Examples Of Plant Items

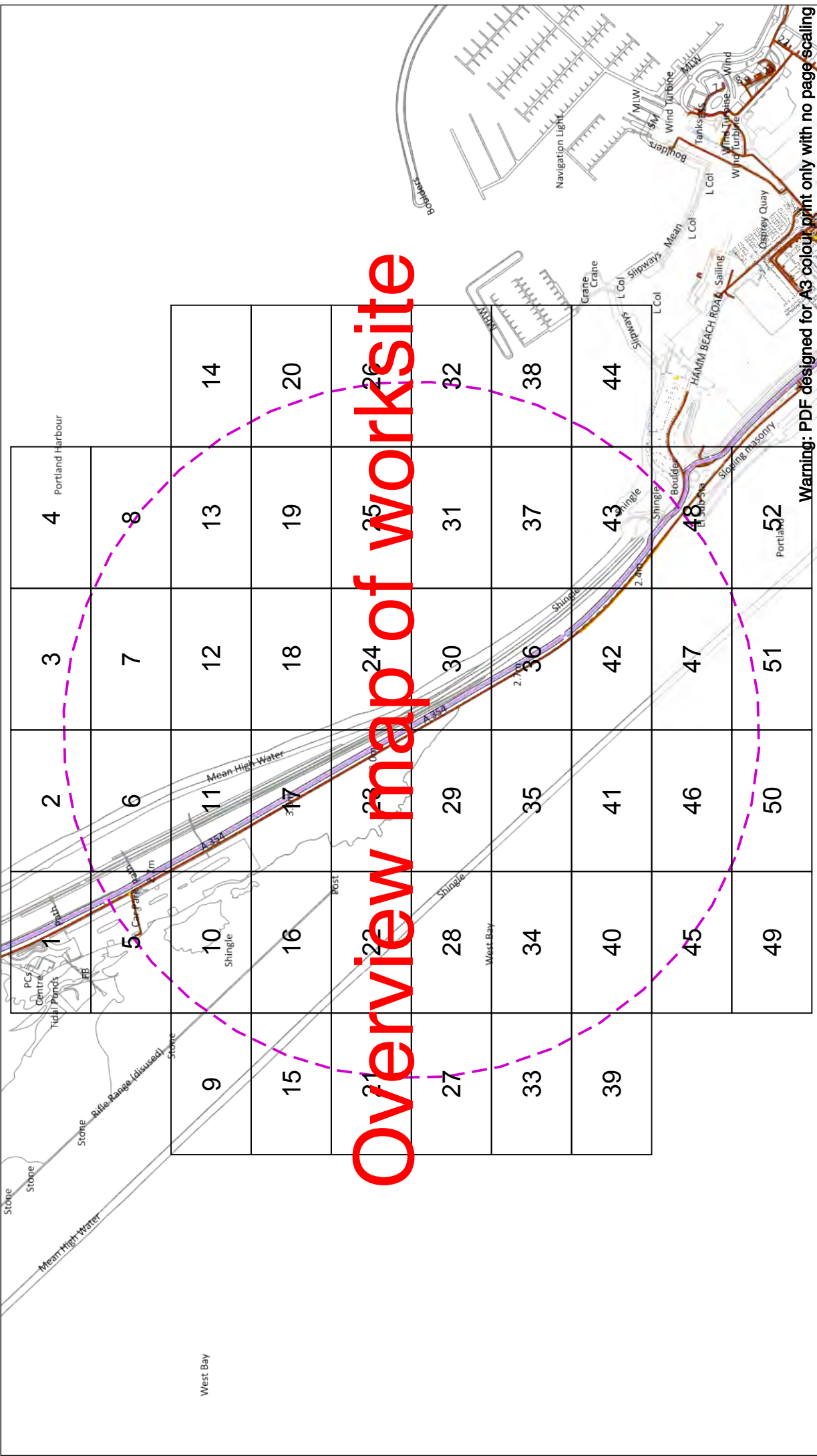
Valve

Digsite: Line:

Area:



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Overview map of worksite

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Date Requested: 11/06/2021
 Job Reference: 22379388
 Site Location: 367176 075049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference:
 Portland Beach Road

WARNING
 There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.
 WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Voltagers (V)		NORMAL DEPTHS TO THE TOP OF THE CABLE WHEN LAD	
LV (Low Voltage) and Services	Up to 1,000V	Services	LV
EV (Extra Voltage)	1,100V	Footpath/Jurimide	0.6m
Transmission	22,000V to 132,000V	Road Crossing	0.6m
	275,000V and 400,000V	Agricultural	0.75m
			0.9m
			1.1m

Legend

- Service Cable
- LV Mains
- 6.6kV
- 11kV
- 22kV
- 66kV
- 132kV
- 275kV
- 400kV
- 500kV
- Power Cable

Distribution Structures (Electric)

- Peak Loading Location
- Peak Structure Loading Location - Engg
- Peak Structure Loading Location - H
- Duct Route
- Cross Section Route

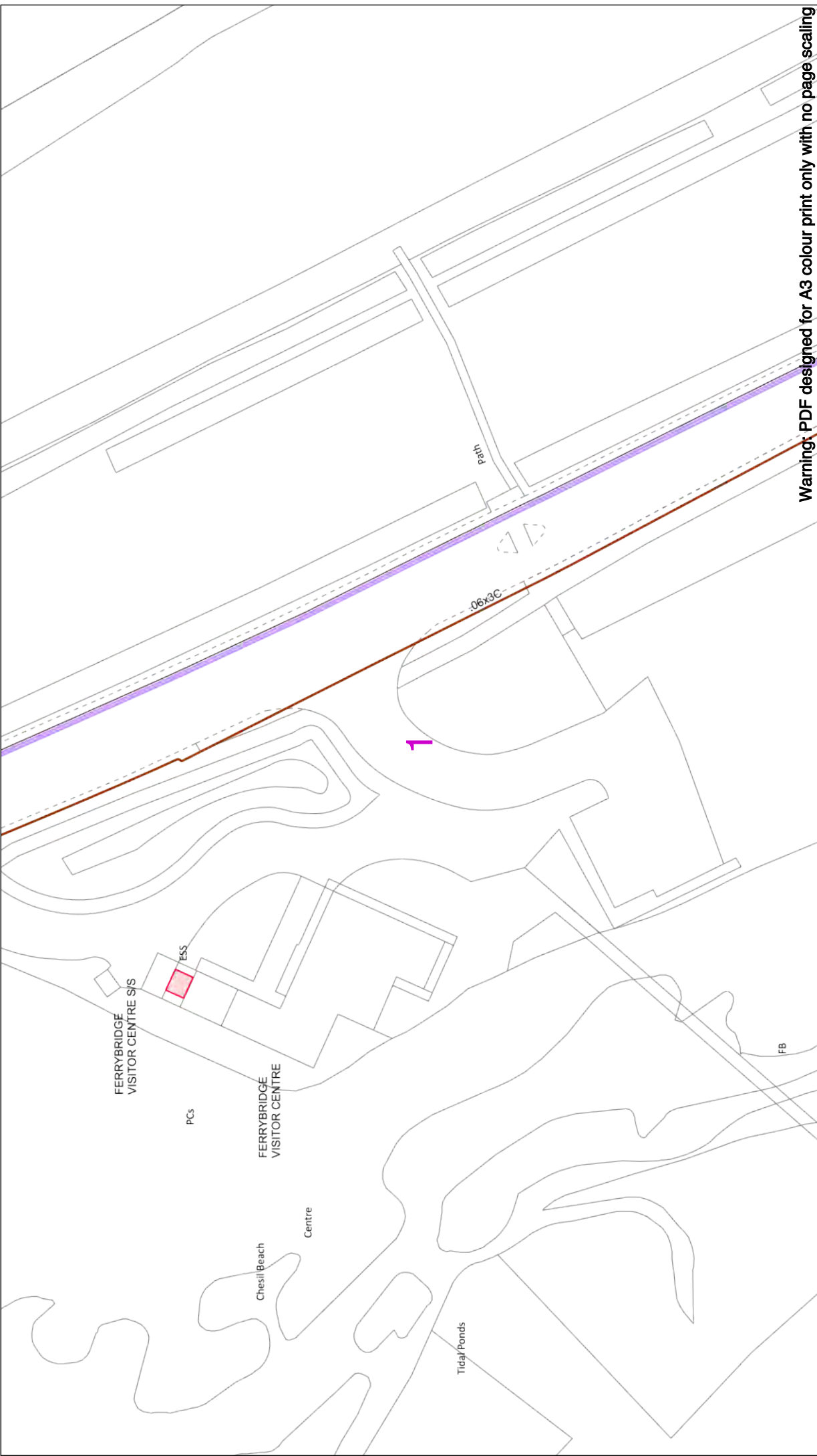
Dig Sites Area: Line:

Scottish & Southern Electricity Networks

Scottish and Southern Energy Power Distribution Ltd.
 Registered Office: Inverleith House,
 200 Dundee Road, Perth, PH1 3AQ
 Registered in Scotland No. SC213459

If you're unsure & need to seek advice before commencing excavations please contact:
 General Enquiries: 0800 088 3516
asset.enquiries@scsn.co.uk
 01256 337 294

Subject to revision – Master held by SSE M Asset Data Team:



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Date Requested: 11/06/2021
Job Reference: 22378388
Site Location: 367176 075049
Requested by: Mr Rory Casey
Your Scheme/Reference: Portland Beach Road

Scale: 1:500 (When plotted at A3)

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0 **50m**

Dig Sites **Area:** **Line:**

WARNING

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WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES G56 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Legend

Service Cable

- 19 Mains
- 6.6KV
- 11KV
- 22KV
- 33KV
- 66KV
- 132KV
- 275KV
- 400KV
- 500KV
- Other Cables

Distribution Structures (Electric)

- Peak Baiting Location
- Peak Structure Existing Location - Single
- Peak Structure Existing Location - N
- Duct Route
- Cross Section Route

Voltagers (V)

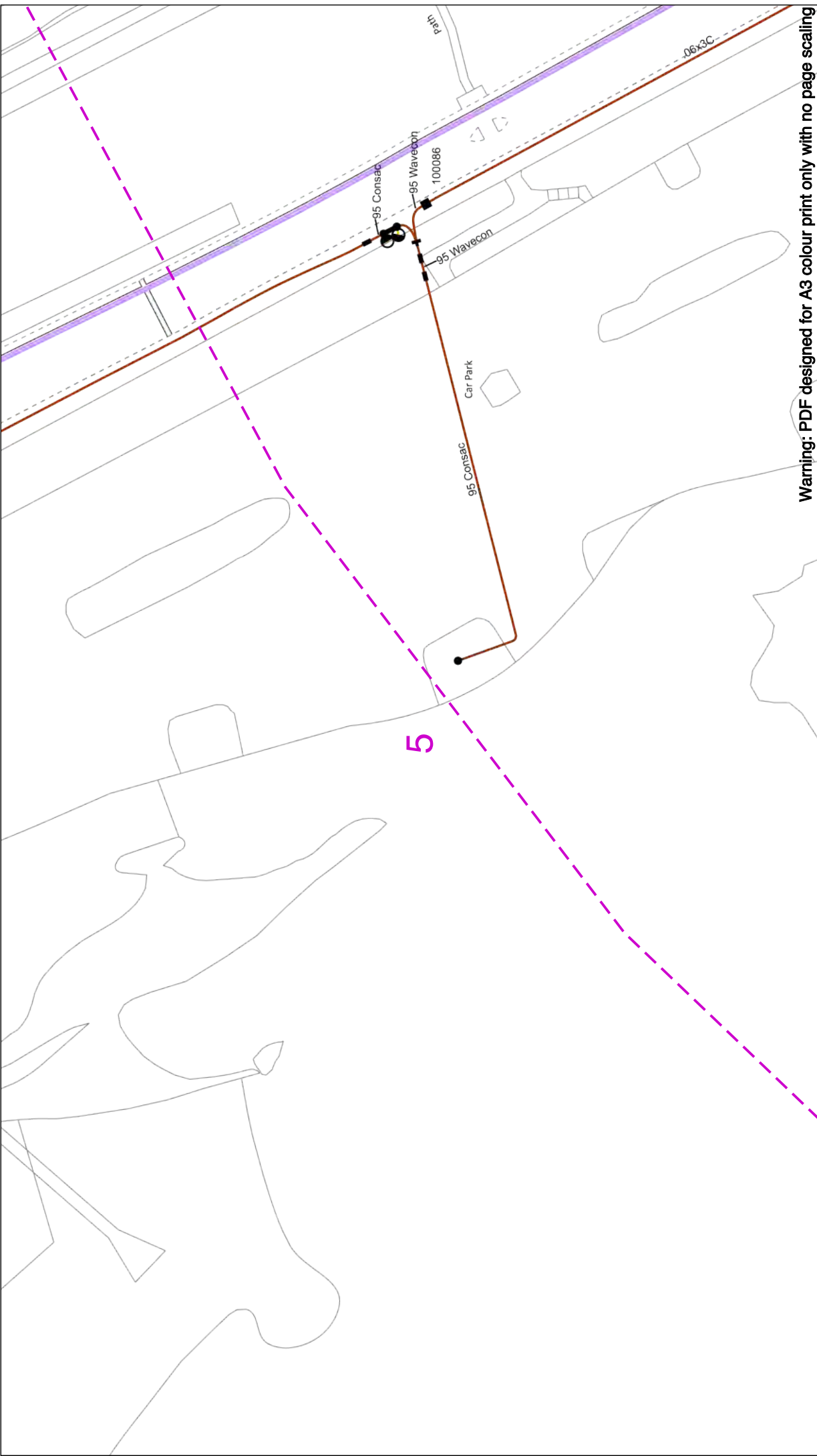
Up to 1,000V
 1,100V
 22,000V to 132,000V
 HV (Extra High Voltage)
 Transmission

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD

Services	LV	0.6m	0.6m	0.8m
Footpath/Unmade	0.6m	0.6m	0.75m	0.9m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	0.6m	0.6m	0.75m	1.1m

Scottish & Southern
Electricity Networks

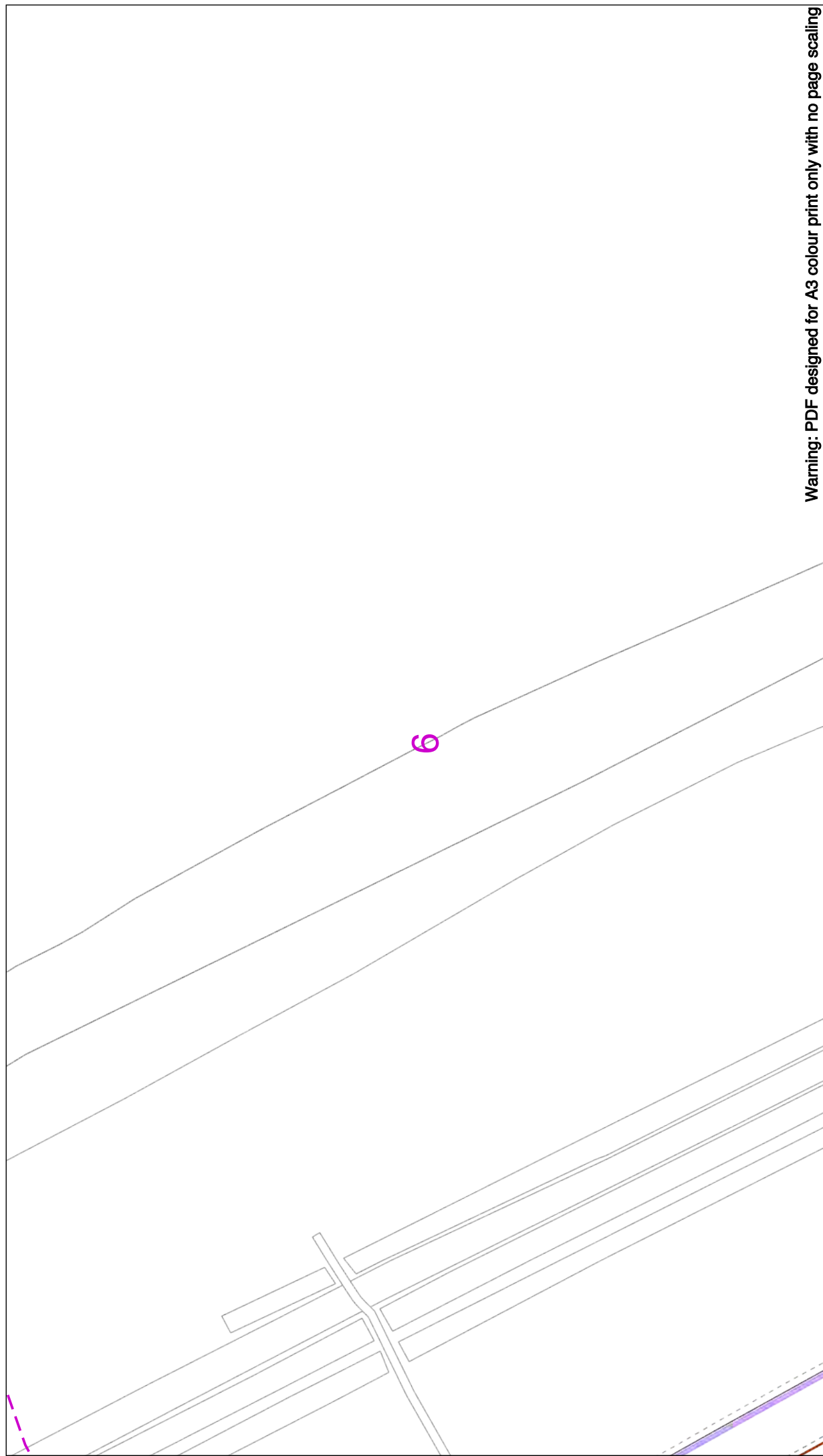
Scottish and Southern Energy Power Distribution Ltd.
 Registered Office: Inverchonnard House,
 200 Dunkeld Road, Perth, PH1 3AQ
 Registered in Scotland No. SC213459
 General Enquiries: 0800 048 3516
 Subject to revision – Master held by SSE M Asset Data Team:
assetdata@scsn.co.uk
 01256 337 294



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<p>0 50m</p> <p>Dig Sites Area: --- Line: ---</p>	<p>WARNING</p> <p>There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>	<p>Legend</p> <p>Service Cable</p> <p>19 Main</p> <p>6.6KV</p> <p>11KV</p> <p>22KV</p> <p>33KV</p> <p>66KV</p> <p>132KV</p> <p>275KV</p> <p>400KV</p> <p>500KV</p> <p>Peak Cable</p>	<p>Voltagers (V)</p> <p>Up to 1,000V</p> <p>1,000V to 11,000V</p> <p>11,000V to 22,000V</p> <p>22,000V to 132,000V</p> <p>132,000V to 275,000V</p> <p>275,000V and 400,000V</p> <p>NORMAL DEPTHS TO THE TOP OF THE CABLE WHEN LAD</p> <table border="1"> <tr> <td>Footpath/Unmade</td> <td>0.45m</td> <td>0.6m</td> <td>0.8m</td> </tr> <tr> <td>Road Crossing</td> <td>0.6m</td> <td>0.75m</td> <td>0.9m</td> </tr> <tr> <td>Agricultural</td> <td>0.6m</td> <td>0.75m</td> <td>0.9m</td> </tr> <tr> <td>Services</td> <td>0.6m</td> <td>0.75m</td> <td>0.9m</td> </tr> <tr> <td>IV</td> <td>0.6m</td> <td>0.75m</td> <td>0.9m</td> </tr> <tr> <td>EV</td> <td>0.6m</td> <td>0.75m</td> <td>0.9m</td> </tr> <tr> <td>BIV</td> <td>0.6m</td> <td>0.75m</td> <td>0.9m</td> </tr> <tr> <td>11m</td> <td>0.6m</td> <td>0.75m</td> <td>0.9m</td> </tr> </table>	Footpath/Unmade	0.45m	0.6m	0.8m	Road Crossing	0.6m	0.75m	0.9m	Agricultural	0.6m	0.75m	0.9m	Services	0.6m	0.75m	0.9m	IV	0.6m	0.75m	0.9m	EV	0.6m	0.75m	0.9m	BIV	0.6m	0.75m	0.9m	11m	0.6m	0.75m	0.9m	<p>Distribution Structures (Electric)</p> <p>Peak Loading Location</p> <p>Peak Structure Existing Location - Engal</p> <p>Peak Structure Existing Location - H</p> <p>Duct Route</p> <p>Cross Section Route</p>	<p>0</p> <p>11/06/2021</p> <p>Job Reference: 22378388</p> <p>Site Location: 367176 075049</p> <p>Requested by: Mr Rory Casey</p> <p>Your Scheme/Reference: Portland Beach Road</p> <p>Scale: 1:500 (When plotted at A3)</p>	<p>Scottish & Southern Electricity Networks</p> <p>Scottish and Southern Energy Power Distribution Ltd.</p> <p>Registered Office: Inverchonnard House, 200 Dunkeld Road, Perth, PH1 3AQ</p> <p>Registered in Scotland No. SC213459</p> <p>General Enquiries: 0800 088 3516</p> <p>If you're unsure & need to seek advice before commencing excavations please contact: asset.enquiries@scsn.co.uk</p> <p>Subject to revision – Master held by SSE M Asset Data Team: 01256 337 294</p>	<p>06x3C</p> <p>100086</p> <p>95 Wavecon</p> <p>95 Consec</p> <p>95 Wavecon</p> <p>95 Consec</p> <p>Car Park</p> <p>5</p>	<p>0</p> <p>50m</p> <p>Dig Sites Area: --- Line: ---</p>	<p>0</p> <p>11/06/2021</p> <p>Job Reference: 22378388</p> <p>Site Location: 367176 075049</p> <p>Requested by: Mr Rory Casey</p> <p>Your Scheme/Reference: Portland Beach Road</p> <p>Scale: 1:500 (When plotted at A3)</p>	<p>Scottish & Southern Electricity Networks</p> <p>Scottish and Southern Energy Power Distribution Ltd.</p> <p>Registered Office: Inverchonnard House, 200 Dunkeld Road, Perth, PH1 3AQ</p> <p>Registered in Scotland No. SC213459</p> <p>General Enquiries: 0800 088 3516</p> <p>If you're unsure & need to seek advice before commencing excavations please contact: asset.enquiries@scsn.co.uk</p> <p>Subject to revision – Master held by SSE M Asset Data Team: 01256 337 294</p>	<p>06x3C</p> <p>100086</p> <p>95 Wavecon</p> <p>95 Consec</p> <p>95 Wavecon</p> <p>95 Consec</p> <p>Car Park</p> <p>5</p>	<p>0</p> <p>50m</p> <p>Dig Sites Area: --- Line: ---</p>	<p>0</p> <p>11/06/2021</p> <p>Job Reference: 22378388</p> <p>Site Location: 367176 075049</p> <p>Requested by: Mr Rory Casey</p> <p>Your Scheme/Reference: Portland Beach Road</p> <p>Scale: 1:500 (When plotted at A3)</p>	<p>06x3C</p> <p>100086</p> <p>95 Wavecon</p> <p>95 Consec</p> <p>95 Wavecon</p> <p>95 Consec</p> <p>Car Park</p> <p>5</p>
Footpath/Unmade	0.45m	0.6m	0.8m																																											
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0 50m

Dig Sites Area: --- Line: ---

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WARNING
 There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.
 WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Date Requested: 11/06/2021
 Job Reference: 22379388
 Site Location: 367176 075049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference: Portland Beach Road

Legend

Service Cable
19 Mains
6.6KV
11KV
22KV
33KV
66KV
132KV
275KV
400KV
500KV
1100KV
Peak Cable

Distribution Structures (Electric)
 Peak Baiting Location
 Peak Structure Existing Location - Single
 Peak Structure Existing Location - N
 Duct Route
 Cross Section Route

LV (Low Voltage) and Services	Up to 1,000V
Medium Voltage	1,100V to 33,000V
HV (Extra High Voltage)	33,000V to 400,000V
Transmission	275,000V and 400,000V

NORMAL DEPTHS TO THE TOP OF THE CABLE WHEN LAYD

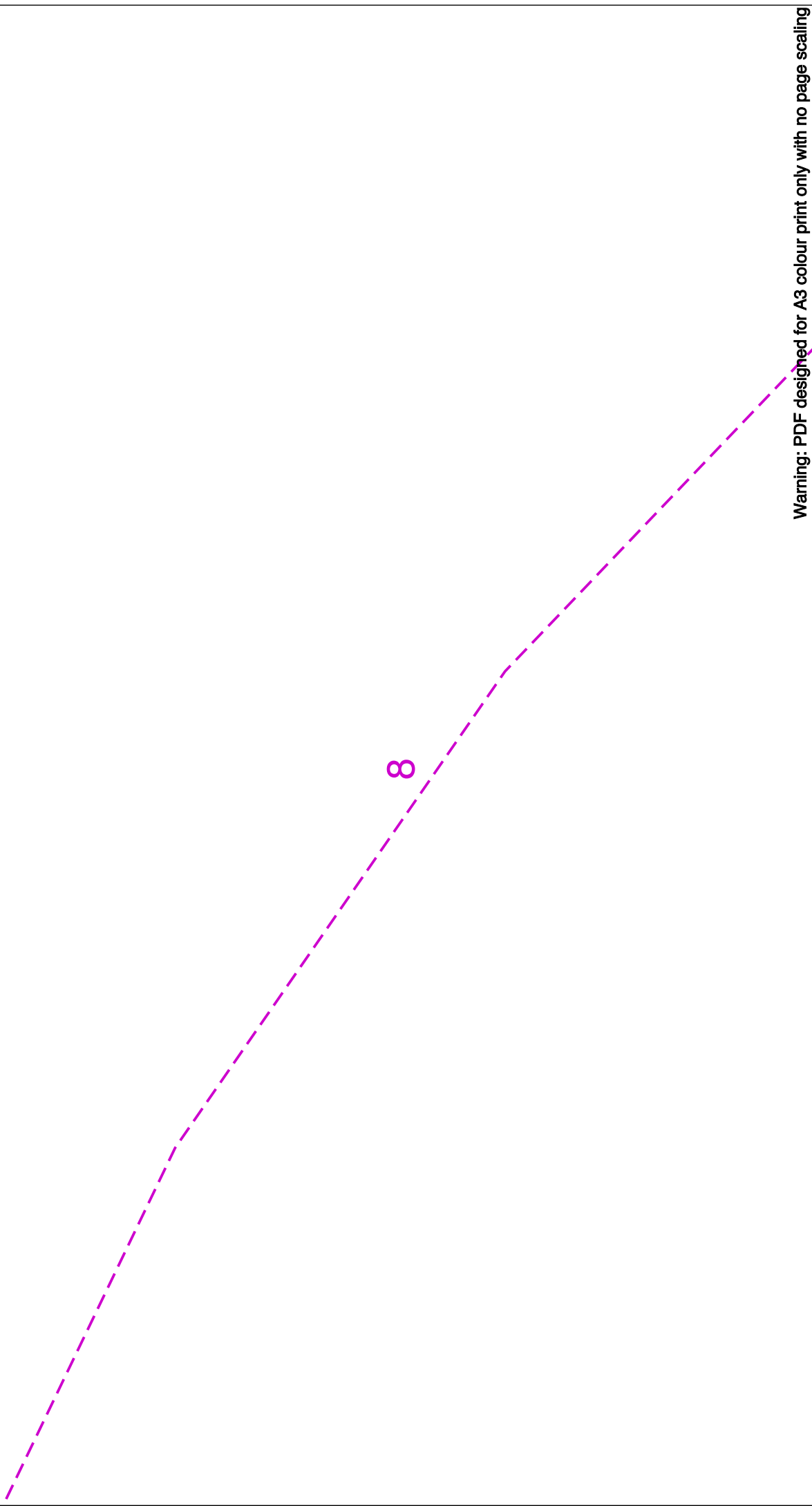
Footpath/Unmade	0.50m	IV	0.6m	EV	0.8m
Road Crossing	0.8m	IV	0.6m	EV	0.9m
Agricultural	1m	IV	0.75m	EV	1.1m

Voltagers (V)
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 22,000V to 33,000V
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Scottish & Southern
 Electricity Networks

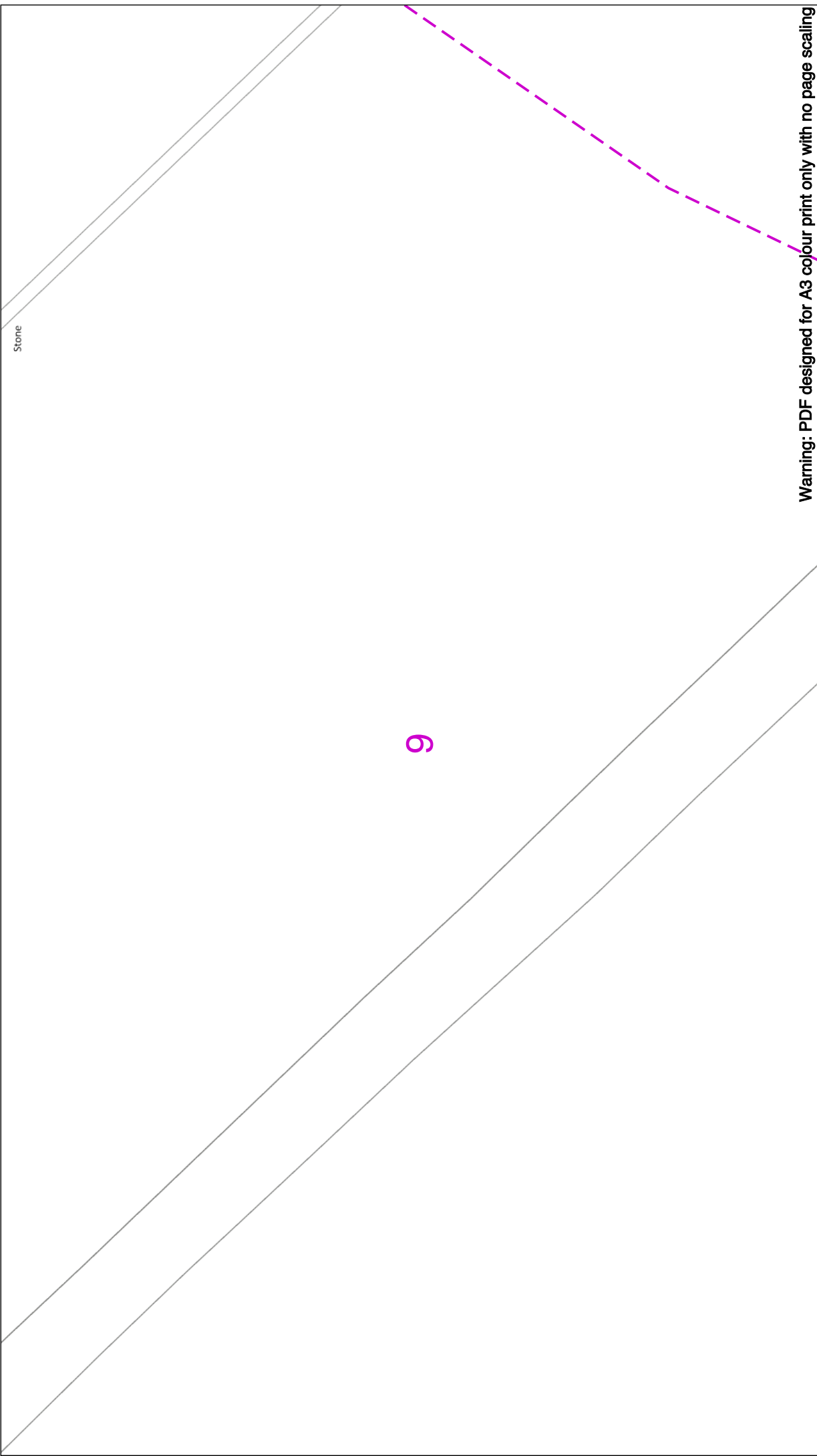
Scottish and Southern Energy Power Distribution Ltd.
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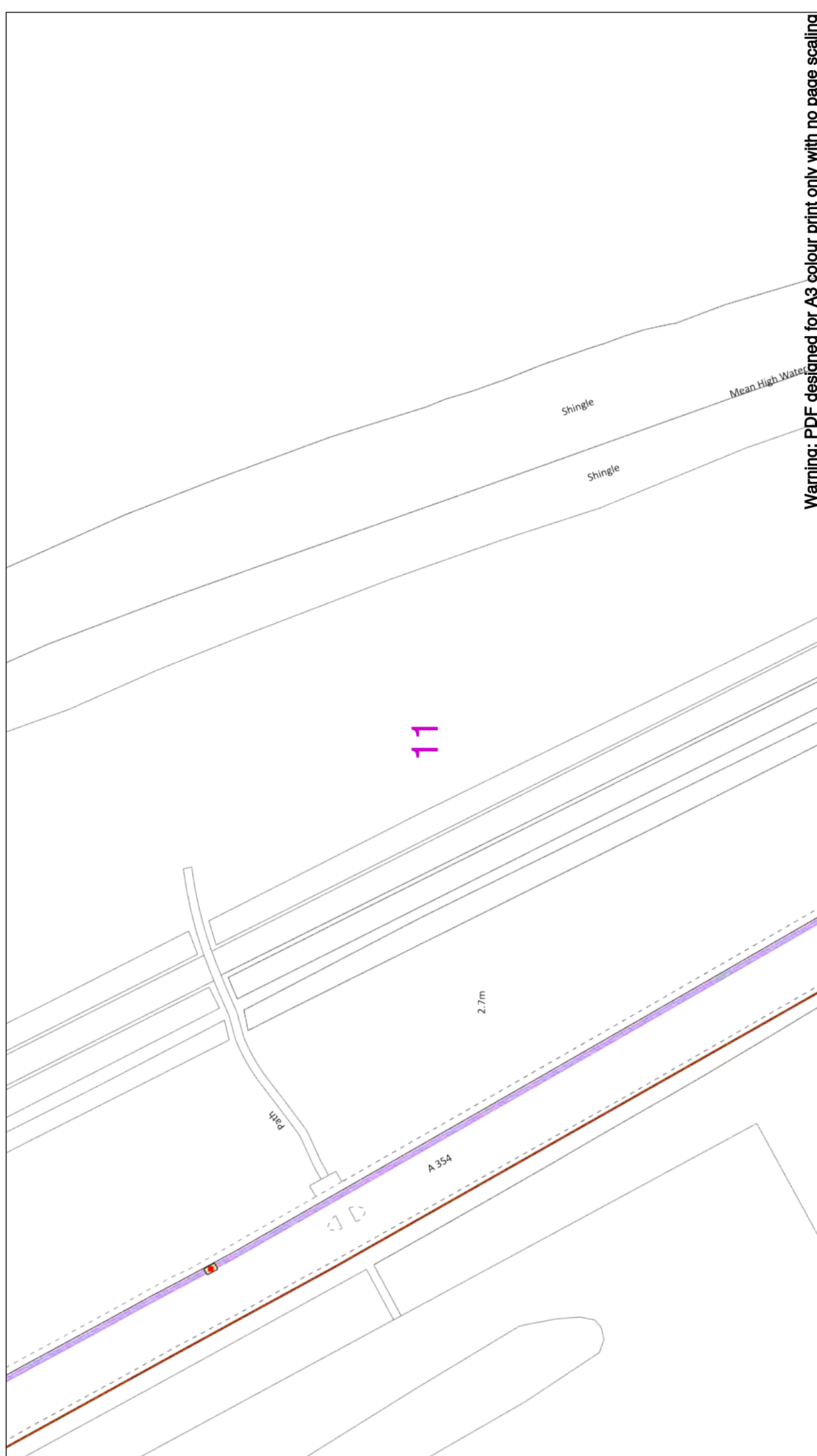
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<p>0 50m</p> <p>Dig Sites Area: --- Line: ---</p>	<p>WARNING</p> <p>There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>	<p>Legend</p> <p>Service Cable</p> <p>17 Mains</p> <p>6.6kV</p> <p>11kV</p> <p>22kV</p> <p>66kV</p> <p>132kV</p> <p>275kV</p> <p>400kV</p> <p>400kV+ Pilot Cable</p>	<p>Voltagers (V)</p> <p>LV (Low Voltage) and Services Up to 1,000V</p> <p>Medium Voltage 1.1kV to 33kV</p> <p>HV (Extra High Voltage) 22,000V to 132,000V</p> <p>Transmission 275,000V and 400,000V</p>	<p>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN Laid</p> <table border="1"> <tr> <td>Footpath/Unmade Road Crossing</td> <td>0.45m</td> <td>IV</td> <td>0.6m</td> <td>EV</td> <td>0.8m</td> </tr> <tr> <td>Agricultural</td> <td>0.6m</td> <td>IV</td> <td>0.6m</td> <td>EV</td> <td>0.9m</td> </tr> <tr> <td></td> <td>0.75m</td> <td>IV</td> <td>0.75m</td> <td>EV</td> <td>1.1m</td> </tr> </table>	Footpath/Unmade Road Crossing	0.45m	IV	0.6m	EV	0.8m	Agricultural	0.6m	IV	0.6m	EV	0.9m		0.75m	IV	0.75m	EV	1.1m	<p>Distribution Structures (Electric)</p> <p>Peak Loading Location</p> <p>Peak Structure Loading Location - Single</p> <p>Peak Structure Loading Location - N</p> <p>Duct Route</p> <p>Cross Section Route</p>		<p>Scottish & Southern Electricity Networks</p> <p>Scottish and Southern Energy Power Distribution Ltd.</p> <p>Registered Office: Inverlorn Road, 200 Dunkeld Road, Perth, PH1 3AQ</p> <p>Registered in Scotland No. SC213459</p> <p>General Enquiries: 0800 048 3516</p> <p>If you're unsure & need to seek advice before commencing excavations please contact: asset@scsn.co.uk</p> <p>Subject to revision – Master held by SSE in Asset Data Team: asset@scsn.co.uk 01256 337 294</p>
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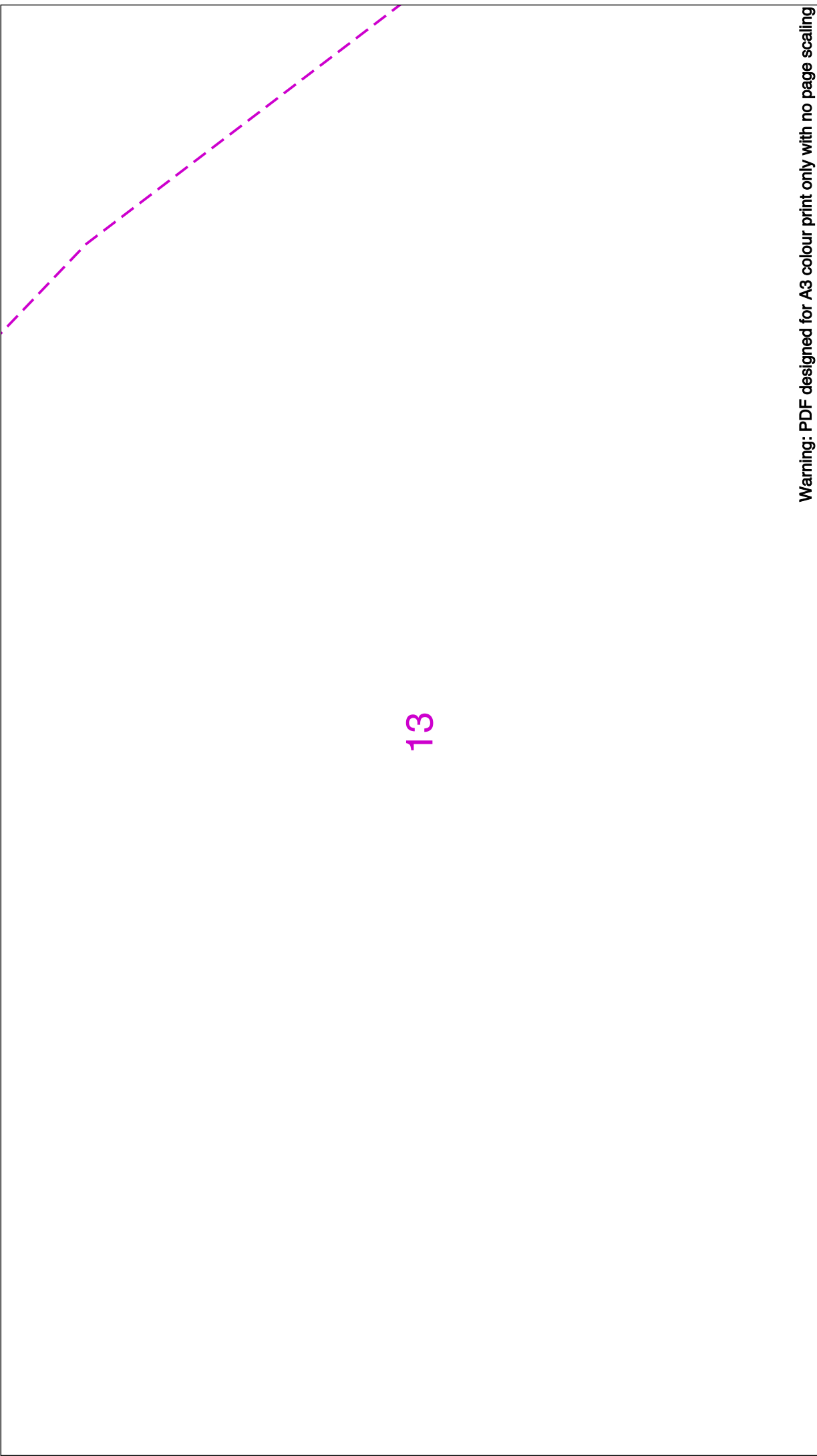
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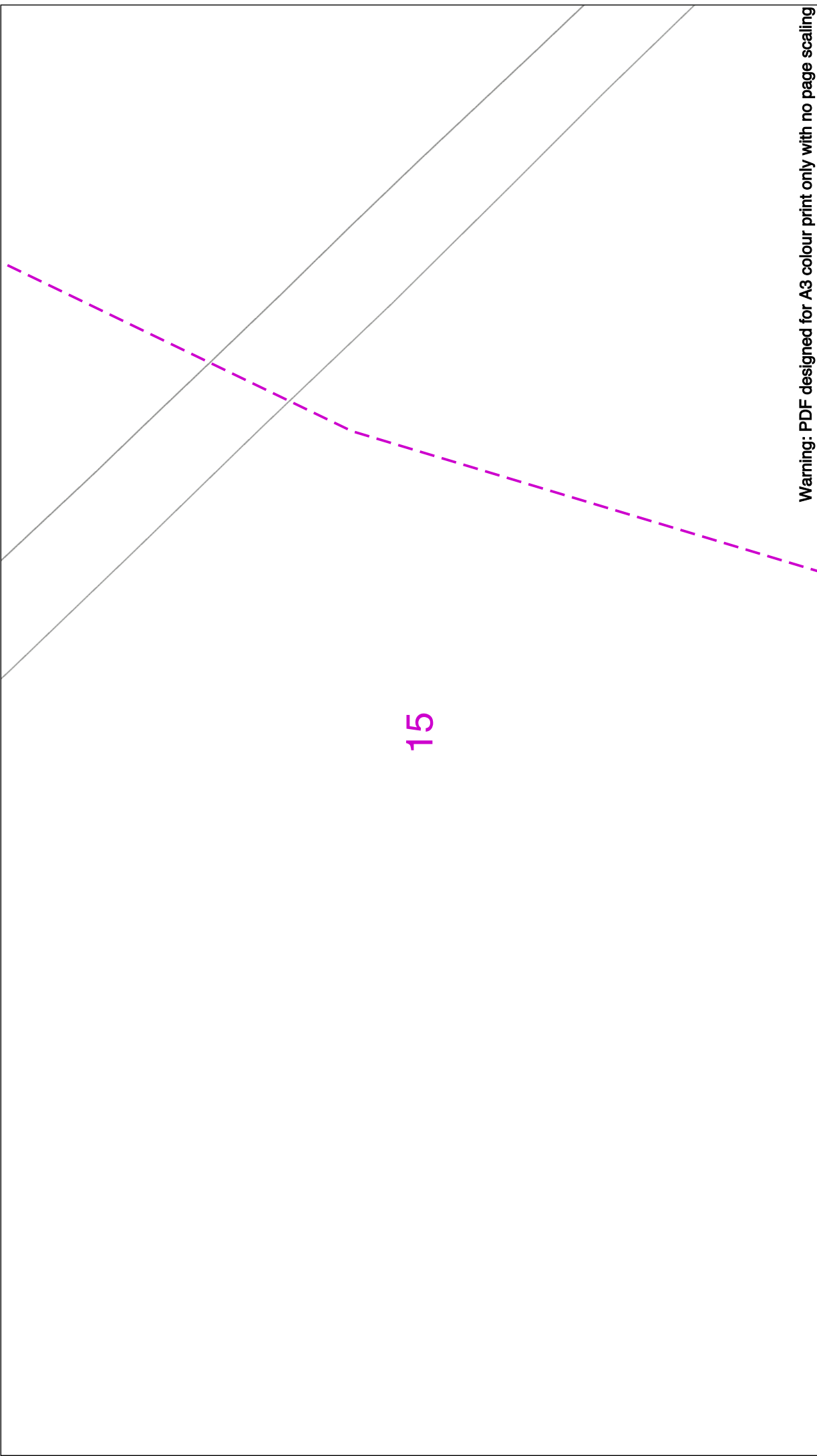
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<p>Legend</p> <ul style="list-style-type: none"> Service Cable 19 Mains 6.6KV 11KV 22KV 66KV 132KV 275KV 400KV 500KV 1100KV 132KV 275KV 400KV 500KV 1100KV 	<p>Voltagers (V)</p> <table border="1"> <tr><td>Up to 1,000V</td><td>0.6m</td><td>0.6m</td><td>0.6m</td></tr> <tr><td>1,000V to 11,000V</td><td>0.6m</td><td>0.6m</td><td>0.6m</td></tr> <tr><td>11,000V to 22,000V</td><td>0.6m</td><td>0.6m</td><td>0.6m</td></tr> <tr><td>22,000V to 132,000V</td><td>0.6m</td><td>0.6m</td><td>0.6m</td></tr> <tr><td>132,000V to 275,000V</td><td>0.6m</td><td>0.6m</td><td>0.6m</td></tr> <tr><td>275,000V and 400,000V</td><td>0.6m</td><td>0.6m</td><td>0.6m</td></tr> </table> <p>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD</p> <table border="1"> <tr><td>Services</td><td>0.6m</td><td>0.6m</td><td>0.6m</td></tr> <tr><td>IV</td><td>0.6m</td><td>0.6m</td><td>0.6m</td></tr> <tr><td>11KV</td><td>0.6m</td><td>0.6m</td><td>0.6m</td></tr> <tr><td>22KV</td><td>0.6m</td><td>0.6m</td><td>0.6m</td></tr> <tr><td>66KV</td><td>0.6m</td><td>0.6m</td><td>0.6m</td></tr> <tr><td>132KV</td><td>0.6m</td><td>0.6m</td><td>0.6m</td></tr> <tr><td>275KV</td><td>0.6m</td><td>0.6m</td><td>0.6m</td></tr> <tr><td>400KV</td><td>0.6m</td><td>0.6m</td><td>0.6m</td></tr> <tr><td>500KV</td><td>0.6m</td><td>0.6m</td><td>0.6m</td></tr> <tr><td>1100KV</td><td>0.6m</td><td>0.6m</td><td>0.6m</td></tr> </table>	Up to 1,000V	0.6m	0.6m	0.6m	1,000V to 11,000V	0.6m	0.6m	0.6m	11,000V to 22,000V	0.6m	0.6m	0.6m	22,000V to 132,000V	0.6m	0.6m	0.6m	132,000V to 275,000V	0.6m	0.6m	0.6m	275,000V and 400,000V	0.6m	0.6m	0.6m	Services	0.6m	0.6m	0.6m	IV	0.6m	0.6m	0.6m	11KV	0.6m	0.6m	0.6m	22KV	0.6m	0.6m	0.6m	66KV	0.6m	0.6m	0.6m	132KV	0.6m	0.6m	0.6m	275KV	0.6m	0.6m	0.6m	400KV	0.6m	0.6m	0.6m	500KV	0.6m	0.6m	0.6m	1100KV	0.6m	0.6m	0.6m
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13

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<p>0 50 m</p> <p>Dig Sites Area: Line: </p>	<p style="color: red; text-align: center;">WARNING</p> <p style="color: red; text-align: center;">There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.</p> <p style="color: red; text-align: center;">WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>	<p>0 50 m</p> <p>Dig Sites Area: Line: </p>																		
<p>Date Requested: 11/06/2021 Job Reference: 22379388 Site Location: 367176 075049 Requested by: Mr Rory Casey Your Scheme/Reference: Portland Beach Road</p>	<p>Voltagers (V) LV (Low Voltage) and Services Up to 1,000V MV (Medium Voltage) 1.1kV to 33kV HV (Extra High Voltage) 22,000V to 400,000V Transmission 275,000V and 400,000V</p> <p>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN Laid</p> <table border="1" style="font-size: small;"> <tr> <td>Footpath/Unmade</td> <td>0.45m</td> <td>IV</td> <td>0.6m</td> <td>EV</td> <td>0.8m</td> </tr> <tr> <td>Road Crossing</td> <td>0.6m</td> <td>IV</td> <td>0.6m</td> <td>EV</td> <td>0.9m</td> </tr> <tr> <td>Agricultural</td> <td>0.6m</td> <td>IV</td> <td>0.75m</td> <td>EV</td> <td>1.1m</td> </tr> </table>	Footpath/Unmade	0.45m	IV	0.6m	EV	0.8m	Road Crossing	0.6m	IV	0.6m	EV	0.9m	Agricultural	0.6m	IV	0.75m	EV	1.1m	<p>Legend</p> <p>Service Cable</p> <ul style="list-style-type: none"> 19 Main 6.6kV 11kV 22kV 33kV 132kV 275kV 400kV 500kV Peak Cable <p>Distribution Structures (Electric)</p> <ul style="list-style-type: none"> Peak Baiting Location Peak Structure Existing Location - Single Peak Structure Existing Location - N Duct Route Cross Section Route
Footpath/Unmade	0.45m	IV	0.6m	EV	0.8m															
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<p style="text-align: center;"></p> <p style="text-align: center;">Scottish & Southern Electricity Networks</p> <p style="text-align: center;">Scottish and Southern Energy Power Distribution Ltd. Registered Office: Inverchonnard House, 200 Dunkeld Road, Perth, PH1 3AQ Registered in Scotland No. SC213459</p> <p style="text-align: center;">If you're unsure & need to seek advice before commencing excavations please contact: General Enquiries: 0800 048 3516 assetdata@scsn.co.uk 01256 337 294</p> <p style="text-align: center;">Subject to revision – Master held by SSE in Asset Data Team:</p>		<p style="font-size: x-small;">BASED UPON THE ORDINANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF THE STATIONERY OFFICE CROWN COPYRIGHT RESERVED. This copy has been made by or with the authority of Scottish and Southern Energy Power Distribution Ltd. Pursuant to section 47 of the Copyright, Designs and Patents Act 1988 ('The Act'). Unless the Act provides a relevant exception to copyright the copy must not be copied without prior permission of the copyright owner. Plans generated by DigSAFE Pro™ software provided by LinesearchbeforeUdig.</p>																		



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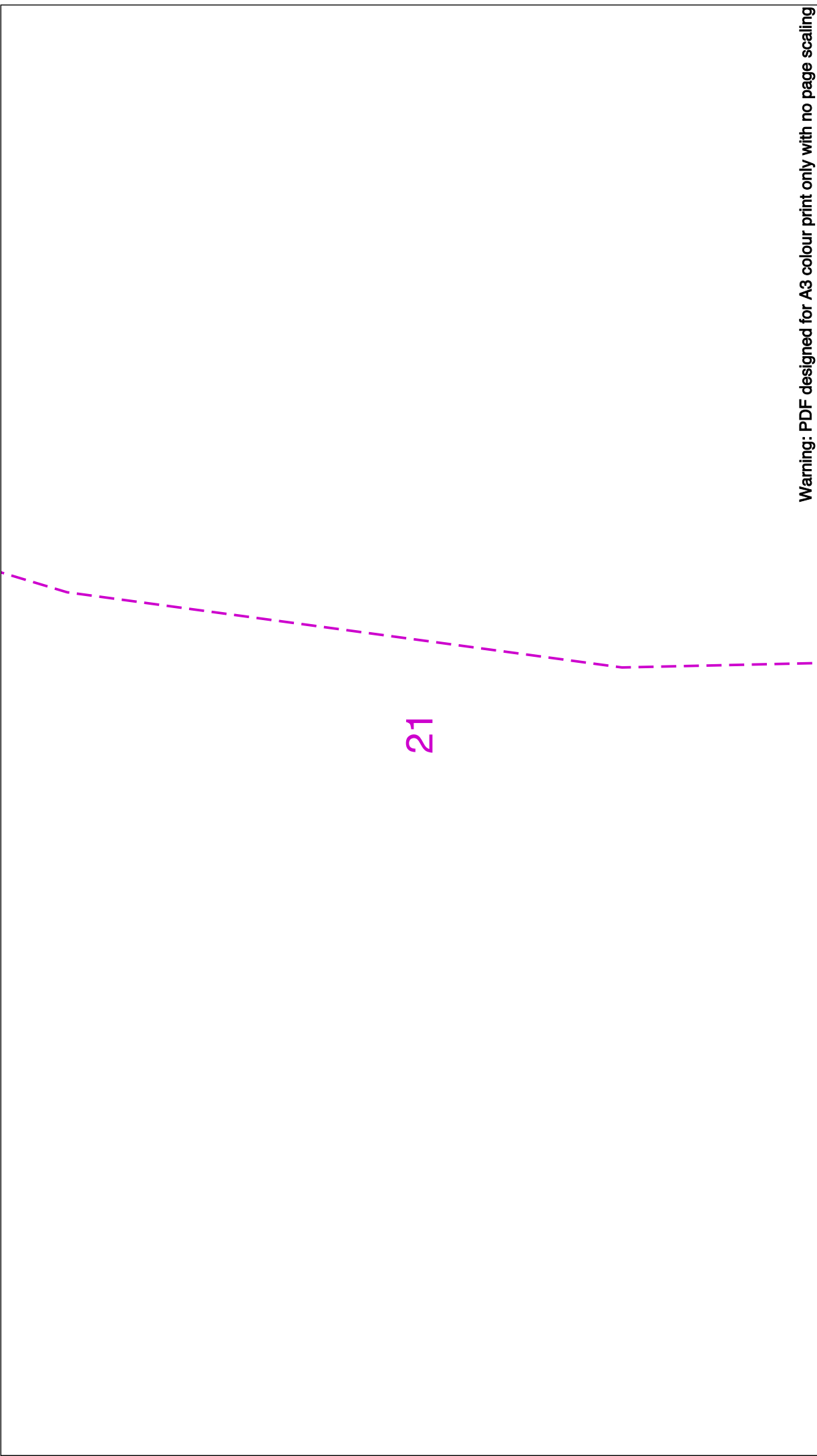
<p>0 50 m</p> <p>Dig Sites Area: --- Line: ---</p>	<p>WARNING</p> <p>There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>	<p>Legend</p> <p>Service Cable</p> <p>19 Main</p> <p>6.6kV</p> <p>11kV</p> <p>22kV</p> <p>33kV</p> <p>66kV</p> <p>132kV</p> <p>275kV</p> <p>400kV</p> <p>500kV</p> <p>Power Cable</p>	<p>Voltagers (V)</p> <p>Up to 1,000V</p> <p>1,000V to 11,000V</p> <p>11,000V to 22,000V</p> <p>22,000V to 132,000V</p> <p>132,000V to 275,000V</p> <p>275,000V and 400,000V</p> <p>Transmission</p>	<p>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN Laid</p> <p>Services LV 0.6m</p> <p>Services HV 0.6m</p> <p>Footpath/Unmade Road 0.9m</p> <p>Road Crossing 0.9m</p> <p>Agricultural 1.1m</p>	<p>Distribution Structures (Electric)</p> <p>Peak Loading Location</p> <p>Peak Structure Existing Location - Engal</p> <p>Peak Structure Existing Location - H</p> <p>Duct Route</p> <p>Cross Section Route</p>			<p>Scottish and Southern Energy Power Distribution Ltd.</p> <p>Registered Office: Inverchonnard House, 200 Dunkeld Road, Perth, PH1 3AQ</p> <p>Registered in Scotland No. SC213459</p> <p>General Enquiries: 0800 048 3516</p> <p>If you're unsure & need to seek advice before commencing excavations please contact: asset@scsn.co.uk</p> <p>Subject to revision – Master held by SSE in Asset Data Team: 01256 337 294</p>
<p>Date Requested: 11/06/2021</p> <p>Job Reference: 22378388</p> <p>Site Location: 367176 075049</p> <p>Requested by: Mr Rory Casey</p> <p>Your Scheme/Reference: Portland Beach Road</p>	<p>Scale: 1:500 (When plotted at A3)</p>	<p>BASED UPON THE ORDINANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF THE STATIONERY OFFICE CROWN COPYRIGHT RESERVED.</p> <p>This copy has been made by or with the authority of Scottish and Southern Energy Power Distribution Ltd. Pursuant to section 47 of the Copyright, Designs and Patents Act 1988 ('The Act'). Unless the Act provides a relevant exception to copyright the copy must not be copied without prior permission of the copyright owner. Plans generated by DigSAFE Pro™ software provided by LinesearchbeforeUdig.</p>						

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Up to 1,000V	0.6m	0.8m																																					
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<p>Date Requested: 11/06/2021</p> <p>Job Reference: 22379388</p> <p>Site Location: 367176 075049</p> <p>Requested by: Mr Rory Casey</p> <p>Your Scheme/Reference: Portland Beach Road</p> <p>Scale: 1:500 (When plotted at A3)</p>		<p></p> <p>Scottish & Southern Electricity Networks</p> <p>Scottish and Southern Energy Power Distribution Ltd.</p> <p>Registered Office: Inveralmond House, 200 Dunkeld Road, Perth, PH1 3AQ</p> <p>Registered in Scotland No. SC213459</p> <p>General Enquiries: 0800 048 3516</p> <p>If you're unsure & need to seek advice before commencing excavations please contact: asset.data@scsn.co.uk</p> <p>Subject to revision – Master held by SSE in Asset Data Team: 01256 337 294</p>																																					

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<p>0 50 m</p>	<p>Dig Sites Area: Line: </p>	<p>WARNING There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>	<p>Legend Service Cable 10 Mains 6.6KV 11KV 22KV 33KV 66KV 132KV 275KV 400KV 800KV HV Cable 110KV 132KV 175KV 220KV 275KV 330KV 400KV HV Cable</p> <p>Distribution Structures (Electric) Pole Erecting Location Pole Structure Existing Location - Single Pole Structure Existing Location - N Duct Route Cross Section Route</p>
<p>Date Requested: 11/06/2021 Job Reference: 22379388 Site Location: 367176 075049 Requested by: Mr Rory Casey Your Scheme/Reference: Portland Beach Road</p>	<p>Voltagers (V) LV (Low Voltage) and Services Up to 1,000V LV (Extra High Voltage) 22,000V to 132,000V Transmission 275,000V and 400,000V</p> <p>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN Laid Services LV 0.6m Footpath/Unmade Road 0.9m Road Crossing 0.9m Agricultural 1.1m</p>	<p>Scottish & Southern Electricity Networks</p> <p>Scottish and Southern Energy Power Distribution Ltd. Registered Office: Inveralmond House, 200 Dunkeld Road, Perth, PH1 3AQ Registered in Scotland No. SC213459 General Enquiries: 0800 048 3516</p> <p>If you're unsure & need to seek advice before commencing excavations please contact: assetdata@scsn.co.uk 01256 337 294</p>	<p>Scale: 1:500 (When plotted at A3)</p> <p>This copy has been made by or with the authority of Scottish and Southern Energy Power Distribution Ltd. Pursuant to section 47 of the Copyright, Designs and Patents Act 1988 ('The Act'). Unless the Act provides a relevant exception to copyright the copy must not be copied without prior permission of the copyright owner. Plans generated by DigSAFE Pro™ software provided by LinesearchbeforeUdig.</p>



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Dig Sites Area: --- Line: - - - -

Date Requested: 11/06/2021
 Job Reference: 22378388
 Site Location: 367176 075049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference: Portland
 Beach Road

WARNING
 There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.
WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

LV (Low Voltage) and Services Up to 1,000V 11kV 22,000V to 132,000V EM (Extra High Voltage) 275,000V and 400,000V Transmission	Services LV 0.6m 11kV 0.6m 22kV 0.6m 33kV 0.6m 66kV 0.6m 110kV 0.6m 132kV 0.6m 275kV 0.9m 400kV 1.1m EM
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Legend Service Cable 11kV 22kV 33kV 66kV 110kV 132kV 275kV 400kV EM EM Cable	Distribution Structures (Electric) Pole Erecting Location Pole Structure Erecting Location - Single Pole Structure Erecting Location - N Duct Route Cross Section Route
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22

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0 50m

Dig Sites Area: Line: ---

Date Requested: 11/06/2021
Job Reference: 22378388
Site Location: 367176 075049
Requested by:
Mr Rory Casey
Your Scheme/Reference: Portland
Beach Road

WARNING
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WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES G56 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Voltagers (V)	Up to 1,000V	0.6m	0.8m
LV (Low Voltage) and Services	1,000V to 11,000V	0.6m	0.9m
Medium Voltage	11,000V to 33,000V	0.6m	0.9m
EV (Extra High Voltage)	33,000V to 132,000V	0.6m	0.9m
Transmission	275,000V and 400,000V	0.6m	0.9m
NORMAL DEPTHS TO THE TOP OF THE CABLE WHEN Laid			
Services	LV	0.6m	0.8m
	11kV	0.6m	0.9m
	22kV	0.6m	0.9m
	33kV	0.6m	0.9m
	132kV	0.6m	0.9m
	275kV	0.6m	0.9m
	400kV	0.6m	0.9m
	500kV	0.6m	0.9m
	765kV	0.6m	0.9m
	1,100kV	0.6m	0.9m

Legend	Distribution Structures (Electric)
Service Cable	Peak Building Location
19 Mains	Peak Structure Existing Location - Single
6.6kV	Peak Structure Existing Location - N
11kV	Duct Route
22kV	Cross Section Route
33kV	
132kV	
275kV	
400kV	
500kV	
765kV	
1,100kV	
Peak Cable	

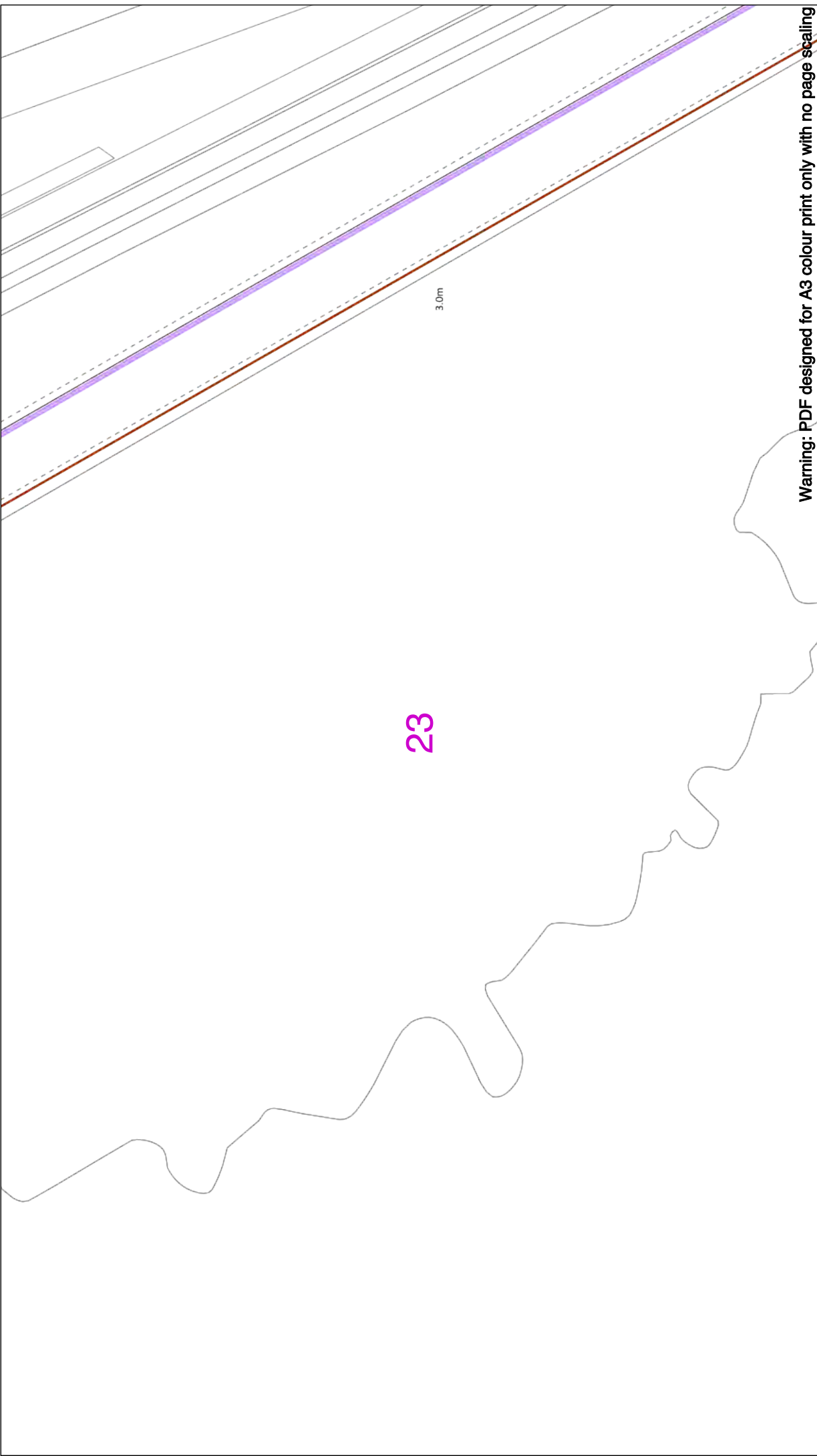


Scottish and Southern Energy Power Distribution Ltd.
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General Enquiries: 0800 048 3516
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3.0m

Scottish & Southern Electricity Networks

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Legend

	Service Cable
	17 Mains
	6.6kV
	11kV
	22kV
	33kV
	66kV
	132kV
	275kV
	400kV
	500kV
	Pole Cable

Distribution Structures (Electric)

	Peak Building Location
	Peak Structure Existing Location - Single Pole Structure Existing Location
	Peak Structure Existing Location - Multiple Pole Structure Existing Location
	Duct Route
	Cross Section Route

Voltagers (V)

Up to 1,000V	0.6m	0.8m	0.9m
1,000V to 17,000V	0.6m	0.8m	0.9m
17,000V to 22,000V	0.6m	0.8m	0.9m
22,000V to 132,000V	0.6m	0.8m	0.9m
132,000V to 275,000V	0.6m	0.8m	0.9m
275,000V and 400,000V	0.6m	0.8m	0.9m

Transmission

Transmission	0.6m	0.8m	0.9m
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NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD

Services	0.6m	0.8m	0.9m
IV	0.6m	0.8m	0.9m
EV	0.6m	0.8m	0.9m
Footpath/Unmade	0.6m	0.8m	0.9m
Road Crossing	0.6m	0.8m	0.9m
Agricultural	0.6m	0.8m	0.9m

WARNING

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WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Date Requested: 11/06/2021
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Site Location: 367176 075049
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 Requested by:
 Mr Rory Casey
 Your Scheme/Reference: Portland Beach Road

Legend
 Service Cable
 10 Mains
 6.6kV
 11kV
 22kV
 33kV
 66kV
 132kV
 275kV
 400kV
 HV Cable
 HV Cable

Distribution Structures (Electric)
 Pole/Building Location
 Pole Structure Existing Location
 Pole Structure Existing Location
 Duct Route
 Cross Section Route

LV (Low Voltage) and Services	Up to 1,000V	0.6m	0.8m
Medium Voltage	1,100V to 33,000V	0.6m	0.9m
EV (Extra High Voltage)	22,000V to 132,000V	0.6m	0.9m
Transmission	275,000V and 400,000V	0.6m	0.9m

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN Laid

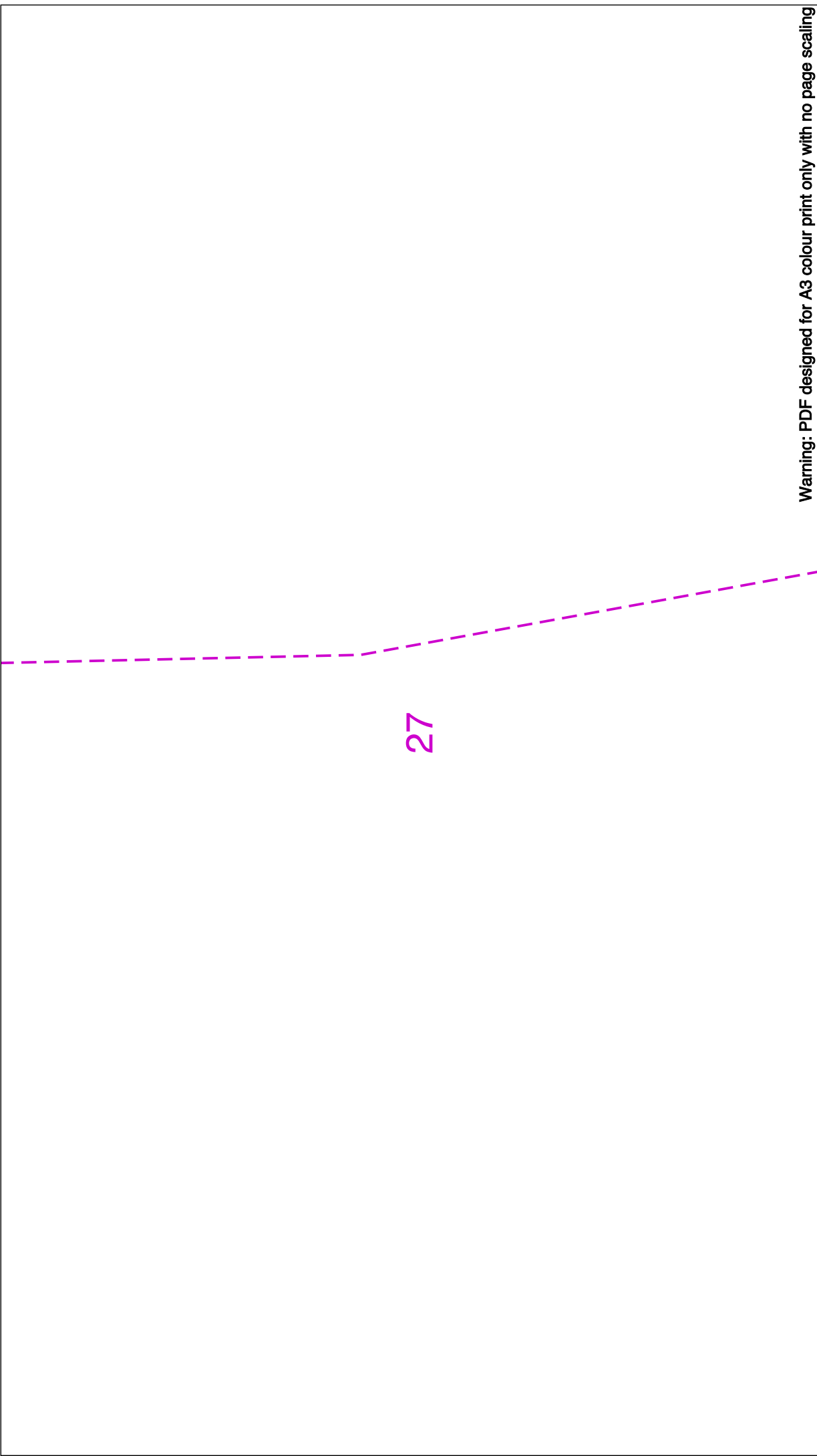
Footpath/Unmade	0.5m	0.6m	0.8m
Road Crossing	0.5m	0.6m	0.75m
Agricultural	0.5m	0.6m	0.9m

Scale: 1:500 (When plotted at A3)

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<p>0 50 m</p> <p>Dig Sites Area: Line: </p>	<p style="color: red; font-weight: bold;">WARNING</p> <p style="color: red; font-weight: bold;">There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.</p> <p style="color: red; font-weight: bold;">WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>	<p>0 50 m</p> <p>Dig Sites Area: Line: </p>																												
<p>Date Requested: 11/06/2021 Job Reference: 22379388 Site Location: 367176 075049 Requested by: Mr Rory Casey Your Scheme/Reference: Portland Beach Road</p>	<p>Legend</p> <p>Service Cable</p> <p>19 Mains</p> <p>6.6kV</p> <p>11kV</p> <p>22kV</p> <p>33kV</p> <p>66kV</p> <p>132kV</p> <p>275kV</p> <p>400kV</p> <p>500kV</p> <p>Peak Cable</p> <p>Distribution Structures (Electric)</p> <p>Peak Building Location</p> <p>Peak Structure Existing Location - Single</p> <p>Peak Structure Existing Location - N</p> <p>Duct Route</p> <p>Cross Section Route</p>	<p>Voltagers (V)</p> <p>LV (Low Voltage) and Services</p> <p>Up to 1,000V</p> <p>1,000V to 11,000V</p> <p>11,000V to 22,000V</p> <p>22,000V to 132,000V</p> <p>132,000V to 400,000V</p> <p>EHV (Extra High Voltage)</p> <p>Transmission</p> <p>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN Laid</p> <table border="1" style="font-size: small;"> <tr> <td>Footpath/Unmade</td> <td>0.5m</td> <td>0.6m</td> <td>0.8m</td> </tr> <tr> <td>Road Crossing</td> <td>0.5m</td> <td>0.6m</td> <td>0.75m</td> </tr> <tr> <td>Agricultural</td> <td>0.5m</td> <td>0.6m</td> <td>0.7m</td> </tr> <tr> <td>Services</td> <td>LV</td> <td>11kV</td> <td>EHV</td> </tr> <tr> <td></td> <td>0.6m</td> <td>0.6m</td> <td>0.8m</td> </tr> <tr> <td></td> <td>0.6m</td> <td>0.6m</td> <td>0.9m</td> </tr> <tr> <td></td> <td>0.6m</td> <td>0.6m</td> <td>1.1m</td> </tr> </table>	Footpath/Unmade	0.5m	0.6m	0.8m	Road Crossing	0.5m	0.6m	0.75m	Agricultural	0.5m	0.6m	0.7m	Services	LV	11kV	EHV		0.6m	0.6m	0.8m		0.6m	0.6m	0.9m		0.6m	0.6m	1.1m
Footpath/Unmade	0.5m	0.6m	0.8m																											
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	0.6m	0.6m	0.8m																											
	0.6m	0.6m	0.9m																											
	0.6m	0.6m	1.1m																											
<p>Scottish & Southern Electricity Networks</p> <p>Scottish and Southern Energy Power Distribution Ltd. Registered Office: Inverlorn Road, 200 Dunkeld Road, Perth, PH1 3AQ Registered in Scotland No. SC213459</p> <p>If you're unsure & need to seek advice before commencing excavations please contact: General Enquiries: 0800 048 3516 assetdata@scsn.co.uk 01256 337 294</p>		<p>Scottish & Southern Electricity Networks</p>																												
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0 **50 m**

Dig Sites Area: Line:

27

50m

WARNING
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 WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Date Requested: 11/06/2021
 Job Reference: 22379388
 Site Location: 367176 075049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference: Portland Beach Road

Legend

Service Cable
 10 Mains
 6.6KV
 11KV
 22KV
 33KV
 66KV
 132KV
 275KV
 400KV
 800KV
 HV Cable
 MV Cable
 LV Cable

Distribution Structures (Electric)

Peak Building Location
 Peak Structure Existing Location - Single
 Peak Structure Existing Location - N
 Duct Route
 Cross Section Route

Voltagers (V)
 LV (Low Voltage) and Services Up to 1,000V
 HV (Extra High Voltage) 22,000V to 132,000V
 Transmission 275,000V and 400,000V

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN Laid

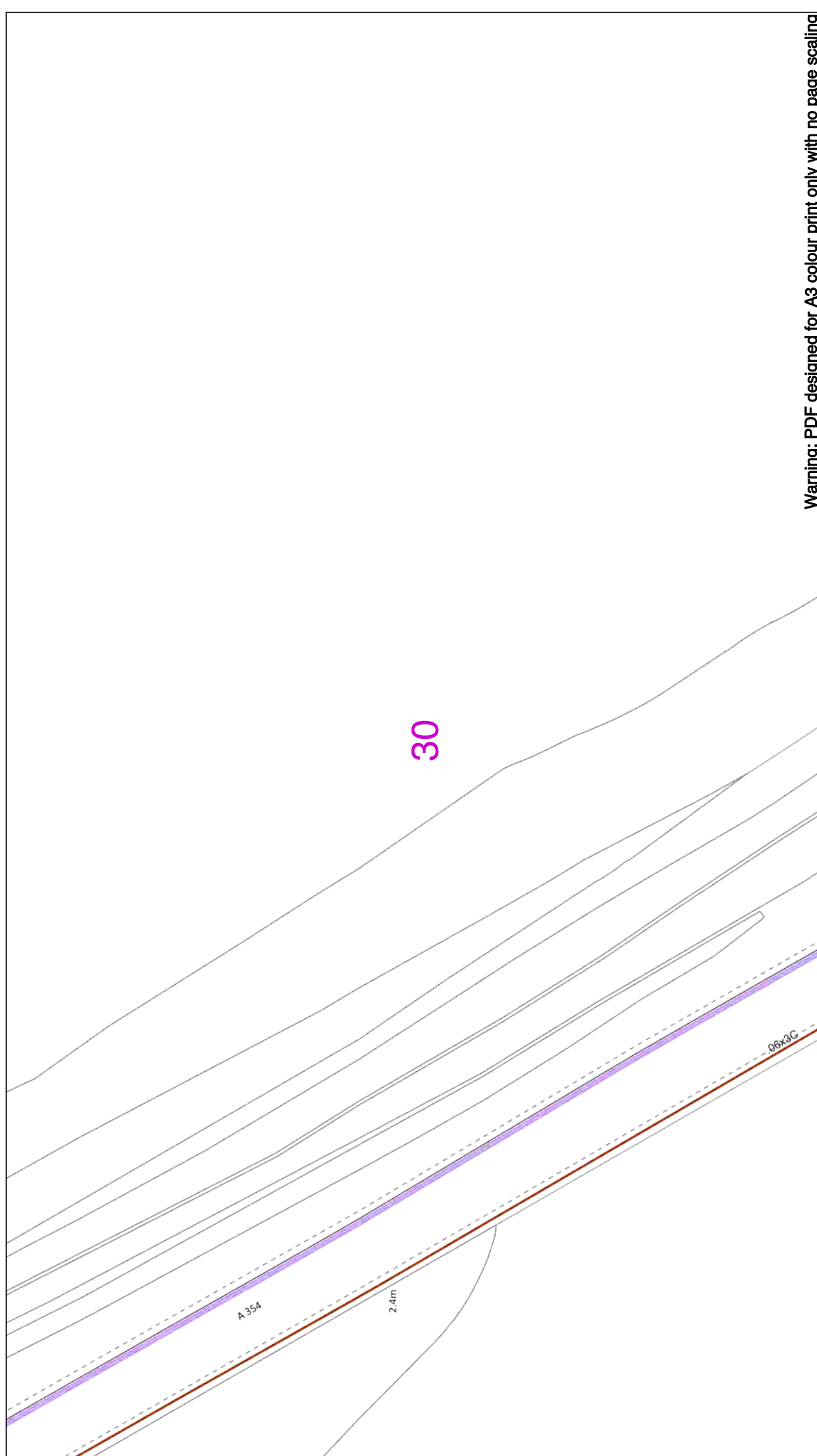
Footpath/Unmade Road	0.6m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m
Agricultural	0.6m	0.6m	1.1m
Services	LV	0.6m	0.6m
	MV	0.6m	0.6m
	EV	0.6m	0.9m
	BIV	0.6m	1.1m

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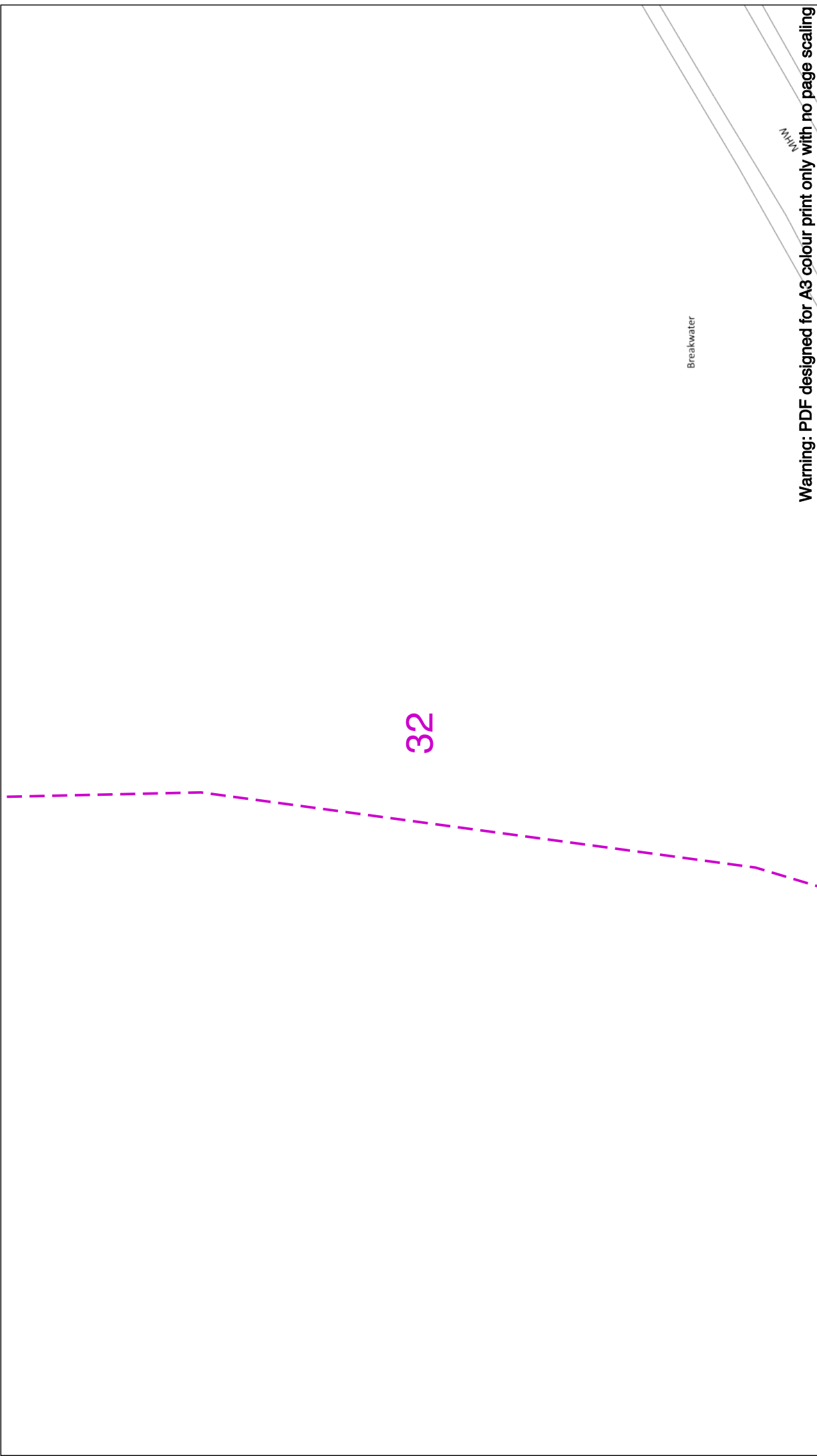


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		<p>Scottish and Southern Energy Power Distribution Ltd. Registered Office: Inverlorn Road, 200 Dunkeld Road, Perth, PH1 3AQ Registered in Scotland No. SC213459</p> <p>If you're unsure & need to seek advice before commencing excavations please contact: General Enquiries: 0800 048 3516 Subject to revision – Master held by SSE in Asset Data Team: assetdata@scsn.co.uk 01256 337 294</p>																					
<p>Legend</p> <p>Service Cable</p> <p>19 Mains</p> <p>6.6kV</p> <p>11kV</p> <p>22kV</p> <p>33kV</p> <p>132kV</p> <p>275kV</p> <p>400kV</p> <p>1100kV</p> <p>Other Cables</p>	<p>Distribution Structures (Electric)</p> <p>Peak Baiting Location</p> <p>Peak Structure Existing Location - Single</p> <p>Peak Structure Existing Location - N</p> <p>Duct Route</p> <p>Cross Section Route</p>	<p>Voltagers (V)</p> <p>Up to 1,000V</p> <p>1,000V to 11,000V</p> <p>11,000V to 22,000V</p> <p>22,000V to 132,000V</p> <p>132,000V to 275,000V</p> <p>275,000V and 400,000V</p> <p>Transmission</p>	<p>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD</p> <table border="1"> <tr> <td>Services</td> <td>IV</td> <td>0.6m</td> <td>0.8m</td> </tr> <tr> <td>IV</td> <td>IV</td> <td>0.6m</td> <td>0.9m</td> </tr> <tr> <td>Footpath/Unmade</td> <td>IV</td> <td>0.6m</td> <td>0.75m</td> </tr> <tr> <td>Road Crossing</td> <td>IV</td> <td>0.6m</td> <td>0.9m</td> </tr> <tr> <td>Agricultural</td> <td>IV</td> <td>0.6m</td> <td>1.1m</td> </tr> </table>	Services	IV	0.6m	0.8m	IV	IV	0.6m	0.9m	Footpath/Unmade	IV	0.6m	0.75m	Road Crossing	IV	0.6m	0.9m	Agricultural	IV	0.6m	1.1m
Services	IV	0.6m	0.8m																				
IV	IV	0.6m	0.9m																				
Footpath/Unmade	IV	0.6m	0.75m																				
Road Crossing	IV	0.6m	0.9m																				
Agricultural	IV	0.6m	1.1m																				
<p>0 50m</p> <p>Dig Sites Area: --- Line: ---</p>	<p>WARNING</p> <p>There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>	<p>Date Requested: 11/06/2021</p> <p>Job Reference: 22378388</p> <p>Site Location: 367176 075049</p> <p>Requested by: Mr Rory Casey</p> <p>Your Scheme/Reference: Portland Beach Road</p>	<p>Scale: 1:500 (When plotted at A3)</p> <p>This copy has been made by or with the authority of Scottish and Southern Energy Power Distribution Ltd. Pursuant to section 47 of the Copyright, Designs and Patents Act 1988 ('The Act'), Unless the Act provides a relevant exception to copyright the copy must not be copied without prior permission of the copyright owner. Plans generated by DigSAFE Pro™ software provided by LinesearchbeforeUdig.</p>																				

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<p>0  50m</p>	<p>Dig Sites Area:  Line: </p>	<p>WARNING There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>	<p>Legend Service Cable 10 Mains 6.6KV 11KV 22KV 33KV 66KV 132KV 275KV 400KV 500KV HV Cable Distribution Structures (Electric) Pole Erecting Location Pole Structure Existing Location - Single Pole Structure Existing Location - N Duct Route Cross Section Route</p>	<p>Voltagers (V) LV (Low Voltage) and Services Up to 1,000V 1,100V 22,000V to 132,000V HV (Extra High Voltage) Transmission 275,000V and 400,000V</p> <p>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN Laid</p> <table border="1"> <tr> <td>Footpath/Unmade</td> <td>0.45m</td> <td>IV</td> <td>0.6m</td> <td>EV</td> <td>0.8m</td> </tr> <tr> <td>Road Crossing</td> <td>0.6m</td> <td>IV</td> <td>0.6m</td> <td>EV</td> <td>0.9m</td> </tr> <tr> <td>Agricultural</td> <td>0.6m</td> <td>IV</td> <td>0.75m</td> <td>EV</td> <td>1.1m</td> </tr> </table>	Footpath/Unmade	0.45m	IV	0.6m	EV	0.8m	Road Crossing	0.6m	IV	0.6m	EV	0.9m	Agricultural	0.6m	IV	0.75m	EV	1.1m	<p>Scottish & Southern Electricity Networks Scottish and Southern Energy Power Distribution Ltd. Registered Office: Inveralmond House, 200 Dunkeld Road, Perth, PH1 3AQ Registered in Scotland No. SC213459 General Enquiries: 0800 048 3516 If you're unsure & need to seek advice before commencing excavations please contact: Subject to revision – Master held by SSE in Asset Data Team: assetdata@scsn.co.uk 01256 337 294</p>
Footpath/Unmade	0.45m	IV	0.6m	EV	0.8m																		
Road Crossing	0.6m	IV	0.6m	EV	0.9m																		
Agricultural	0.6m	IV	0.75m	EV	1.1m																		
<p>Date Requested: 11/06/2021 Job Reference: 22379388 Site Location: 367176 075049 Requested by: Mr Rory Casey Your Scheme/Reference: Portland Beach Road</p>	<p>Scale: 1:500 (When plotted at A3)</p>	<p>BASED UPON THE ORDINANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF THE STATIONERY OFFICE CROWN COPYRIGHT RESERVED. This copy has been made by or with the authority of Scottish and Southern Energy Power Distribution Ltd. Pursuant to section 47 of the Copyright, Designs and Patents Act 1988 ('The Act'). Unless the ACT provides a relevant exception to copyright the copy must not be copied without prior permission of the copyright owner. Plans generated by DigSAFE Pro™ software provided by LinesearchbeforeUdig.</p>																					



MHW

Breakwater

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<p>0 50m</p> <p>Dig Sites Area: --- Line: ---</p>	<p>WARNING</p> <p>There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>	<p>Legend</p> <p>Service Cable</p> <p>19 Main</p> <p>6.6kV</p> <p>11kV</p> <p>22kV</p> <p>33kV</p> <p>66kV</p> <p>132kV</p> <p>275kV</p> <p>400kV</p> <p>500kV</p> <p>1100kV</p> <p>Peak Cable</p>	<p>Voltagers (V)</p> <p>LV (Low Voltage) and Services Up to 1,000V</p> <p>Medium Voltage 11,000V</p> <p>High Voltage 22,000V to 132,000V</p> <p>EHV (Extra High Voltage) Transmission 275,000V and 400,000V</p> <p>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD</p> <table border="1"> <tr> <td>Footpath/Unmade Road</td> <td>0.5m</td> <td>0.6m</td> <td>0.8m</td> </tr> <tr> <td>Road Crossing</td> <td>0.5m</td> <td>0.6m</td> <td>0.75m</td> </tr> <tr> <td>Agricultural</td> <td>0.5m</td> <td>0.6m</td> <td>0.9m</td> </tr> <tr> <td>Services</td> <td>LV</td> <td>11kV</td> <td>EHV</td> </tr> <tr> <td></td> <td>0.6m</td> <td>0.6m</td> <td>1.1m</td> </tr> </table>	Footpath/Unmade Road	0.5m	0.6m	0.8m	Road Crossing	0.5m	0.6m	0.75m	Agricultural	0.5m	0.6m	0.9m	Services	LV	11kV	EHV		0.6m	0.6m	1.1m	<p>Distribution Structures (Electric)</p> <p>Peak Baiting Location</p> <p>Peak Structure Existing Location - Single</p> <p>Peak Structure Existing Location - N</p> <p>Duct Route</p> <p>Cross Section Route</p>	<p>0 50m</p> <p>Dig Sites Area: --- Line: ---</p>
Footpath/Unmade Road	0.5m	0.6m	0.8m																						
Road Crossing	0.5m	0.6m	0.75m																						
Agricultural	0.5m	0.6m	0.9m																						
Services	LV	11kV	EHV																						
	0.6m	0.6m	1.1m																						
<p>Date Requested: 11/06/2021</p> <p>Job Reference: 22379388</p> <p>Site Location: 367176 075049</p> <p>Requested by: Mr Rory Casey</p> <p>Your Scheme/Reference: Portland Beach Road</p>	<p>Scale: 1:500 (When plotted at A3)</p>	<p>Scottish & Southern Electricity Networks</p>	<p>Scottish and Southern Energy Power Distribution Ltd.</p> <p>Registered Office: Inveralmond House, 200 Dunkeld Road, Perth, PH1 3AQ</p> <p>Registered in Scotland No. SC213459</p> <p>General Enquiries: 0800 048 3516</p> <p>If you're unsure & need to seek advice before commencing excavations please contact: asset.data@scsn.co.uk</p> <p>Subject to revision – Master held by SSE in Asset Data Team: 01256 337 294</p>	<p>Scottish & Southern Electricity Networks</p>	<p>BASED UPON THE ORDINANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF THE STATIONERY OFFICE CROWN COPYRIGHT RESERVED.</p> <p>This copy has been made by or with the authority of Scottish and Southern Energy Power Distribution Ltd. Pursuant to section 47 of the Copyright, Designs and Patents Act 1988 ('The Act'). Unless the Act provides a relevant exception to copyright the copy must not be copied without prior permission of the copyright owner. Plans generated by DigSAFE Pro™ software provided by LinesearchbeforeUdig.</p>																				

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0 50m

Date Requested: 11/06/2021
 Job Reference: 22378388
 Site Location: 367176 075049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference: Portland
 Beach Road

WARNING
 There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.
 WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Dig Sites Area: Line:

LV (Low Voltage) and Services		Services		EHV	
Up to 1,000V	0.6m	LV	0.6m	EHV	0.8m
1,100V to 17.5kV	0.75m	IV	0.6m	IV	0.9m
17.5kV to 132,000V	0.9m	IV	0.6m	IV	0.9m
132,000V to 400,000V	1.1m	IV	0.6m	IV	1.1m
EHV (Extra High Voltage)	1.1m	IV	0.6m	IV	1.1m
Transmission	1.1m	IV	0.6m	IV	1.1m

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN Laid

Footpath/Unmade	Road Crossing	Agricultural
0.5m	0.5m	0.5m
0.5m	0.5m	0.5m
0.5m	0.5m	0.5m

Legend		Distribution Structures (Electric)	
Service Cable	Peak Building Location	Peak Building Location	Peak Building Location
17.5kV	Peak Structure Existing Location	Peak Structure Existing Location	Peak Structure Existing Location
6.6kV	Peak Structure Existing Location	Peak Structure Existing Location	Peak Structure Existing Location
11kV	Duct Route	Duct Route	Duct Route
22kV	Cross Section Route	Cross Section Route	Cross Section Route
33kV			
66kV			
132kV			
275kV			
400kV			
EHV			
Peak Cable			



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0 50 m

Dig Sites Area: Line: ---

Date Requested: 11/06/2021
Job Reference: 22378388
Site Location: 367176 075049
Requested by:
Mr Rory Casey
Your Scheme/Reference: Portland
Beach Road

WARNING
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WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

LV (Low Voltage) and Services Up to 1,000V 2,000V and 3,000V EHV (Extra High Voltage)	Services 0.5m 0.6m 0.8m 1.1m
Transmission 275,000V and 400,000V	IV 0.6m 0.8m 1.1m
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD	EV 0.6m 0.8m 1.1m
Footpath/Unmade Road Crossing 0.5m	IV 0.6m 0.8m 1.1m
Agricultural 0.5m	EV 0.6m 0.8m 1.1m

Legend

Service Cable

- 19 Mains
- 6.6kV
- 11kV
- 22kV
- 33kV
- 66kV
- 132kV
- 275kV
- 400kV
- Other
- Other
- Other

Distribution Structures (Electric)

- Peak Building Location
- Peak Structure Existing Location - Single
- Peak Structure Existing Location - N
- Duct Route
- Cross Section Route

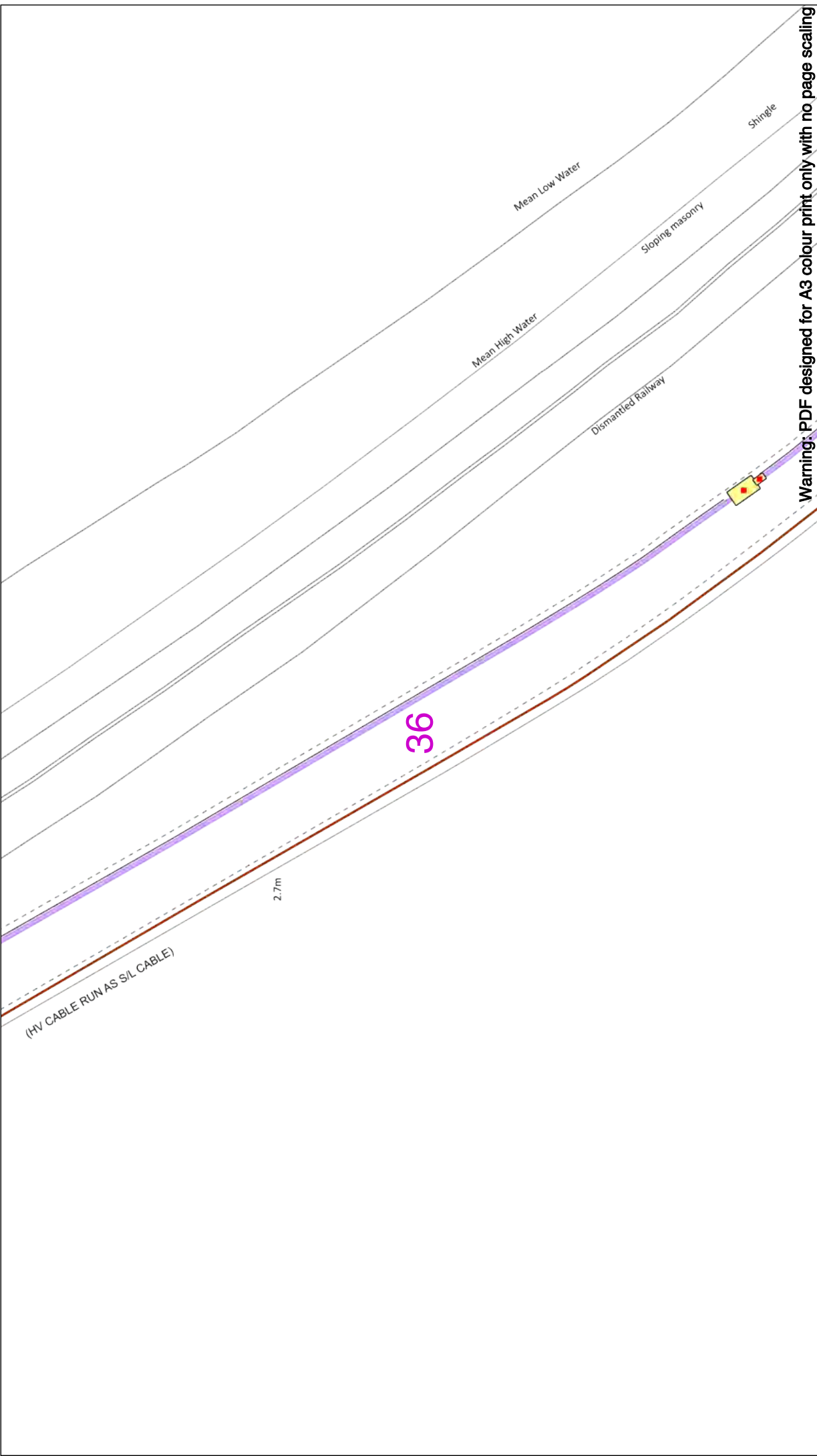


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 01256 337 294

Legend

Service Cable

- 10 Mains
- 6.6kV
- 11kV
- 22kV
- 33kV
- 66kV
- 132kV
- 275kV
- 400kV
- 500kV
- 765kV
- 1100kV

Distribution Structures (Electric)

- Peak Loading Location
- Peak Structure Existing Location - Single
- Peak Structure Existing Location - N
- Duct Route
- Cross Section Route

Voltagers (V)

LV (Low Voltage) and Services
 Up to 1,000V
 MV (Extra High Voltage)
 22,000V to 132,000V
 Transmission
 275,000V and 400,000V

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD

Services	LV	EV	EVV
Footpath/Unmade	0.5m	0.6m	0.8m
Road Crossing	0.5m	0.6m	0.75m
Agricultural	0.5m	0.6m	1.1m

Area: **Dig Sites** **Line:**

50m

WARNING
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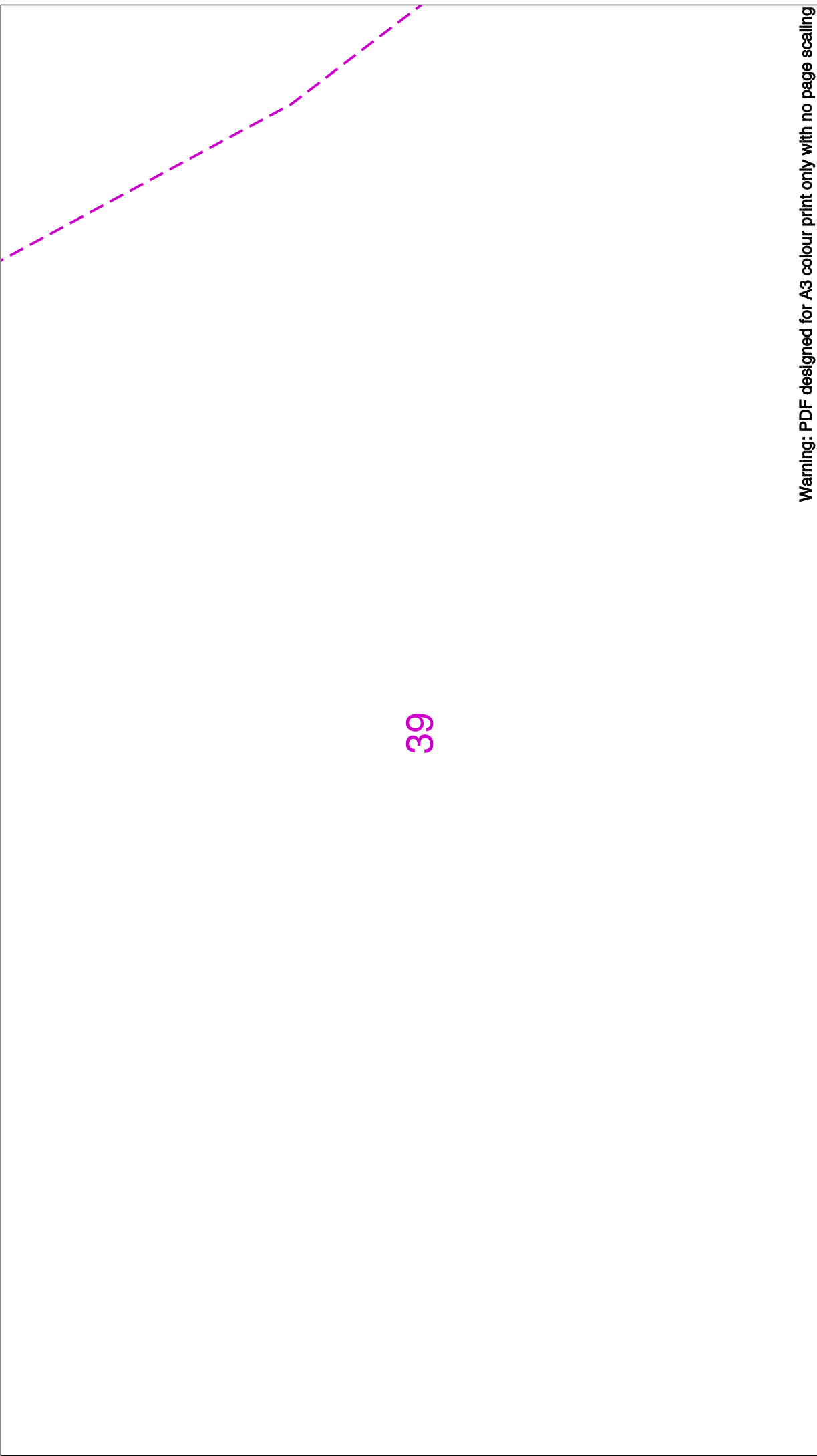
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<p>0 50 m</p>	<p>Dig Sites Area: Line: </p>	<p>WARNING</p> <p>There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>	<p>Legend</p> <p>Service Cable</p> <ul style="list-style-type: none"> 10 Mains 6.6kV 11kV 22kV 66kV 132kV 275kV 400kV 500kV Other Cables <p>Distribution Structures (Electric)</p> <ul style="list-style-type: none"> Peak Baiting Location Peak Structure Existing Location - Single Peak Structure Existing Location - N Duct Route Cross Section Route 																																																			
<p>Date Requested: 11/06/2021 Job Reference: 22379388 Site Location: 367176 075049 Requested by: Mr Rory Casey Your Scheme/Reference: Portland Beach Road</p>	<p>Voltagers (V)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Up to 1,000V</td> <td>0.6m</td> <td>0.6m</td> <td>0.8m</td> </tr> <tr> <td>1,000V to 11,000V</td> <td>0.6m</td> <td>0.6m</td> <td>0.9m</td> </tr> <tr> <td>11,000V to 22,000V</td> <td>0.6m</td> <td>0.6m</td> <td>0.9m</td> </tr> <tr> <td>22,000V to 132,000V</td> <td>0.6m</td> <td>0.6m</td> <td>0.9m</td> </tr> <tr> <td>132,000V to 400,000V</td> <td>0.6m</td> <td>0.6m</td> <td>0.9m</td> </tr> <tr> <td>400,000V to 500,000V</td> <td>0.6m</td> <td>0.6m</td> <td>0.9m</td> </tr> </table> <p>Transmission</p> <p>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN Laid</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Services</td> <td>0.6m</td> <td>0.6m</td> <td>0.8m</td> </tr> <tr> <td>IV</td> <td>0.6m</td> <td>0.6m</td> <td>0.9m</td> </tr> <tr> <td>EV</td> <td>0.6m</td> <td>0.6m</td> <td>0.9m</td> </tr> <tr> <td>EVV</td> <td>0.6m</td> <td>0.6m</td> <td>0.9m</td> </tr> <tr> <td>Footpath/Unmade</td> <td>0.6m</td> <td>0.6m</td> <td>0.9m</td> </tr> <tr> <td>Road Crossing</td> <td>0.6m</td> <td>0.6m</td> <td>0.9m</td> </tr> <tr> <td>Agricultural</td> <td>0.6m</td> <td>0.6m</td> <td>0.9m</td> </tr> </table>	Up to 1,000V	0.6m	0.6m	0.8m	1,000V to 11,000V	0.6m	0.6m	0.9m	11,000V to 22,000V	0.6m	0.6m	0.9m	22,000V to 132,000V	0.6m	0.6m	0.9m	132,000V to 400,000V	0.6m	0.6m	0.9m	400,000V to 500,000V	0.6m	0.6m	0.9m	Services	0.6m	0.6m	0.8m	IV	0.6m	0.6m	0.9m	EV	0.6m	0.6m	0.9m	EVV	0.6m	0.6m	0.9m	Footpath/Unmade	0.6m	0.6m	0.9m	Road Crossing	0.6m	0.6m	0.9m	Agricultural	0.6m	0.6m	0.9m	<p>Scottish & Southern Electricity Networks</p> <p>Scottish and Southern Energy Power Distribution Ltd. Registered Office: Inveralmond House, 200 Dunkeld Road, Perth, PH1 3AQ Registered in Scotland No. SC213459</p> <p>If you're unsure & need to seek advice before commencing excavations please contact: General Enquiries: 0800 048 3516 assetdata@scsn.co.uk 01256 337 294</p> <p>Subject to revision – Master held by SSE in Asset Data Team:</p>
Up to 1,000V	0.6m	0.6m	0.8m																																																			
1,000V to 11,000V	0.6m	0.6m	0.9m																																																			
11,000V to 22,000V	0.6m	0.6m	0.9m																																																			
22,000V to 132,000V	0.6m	0.6m	0.9m																																																			
132,000V to 400,000V	0.6m	0.6m	0.9m																																																			
400,000V to 500,000V	0.6m	0.6m	0.9m																																																			
Services	0.6m	0.6m	0.8m																																																			
IV	0.6m	0.6m	0.9m																																																			
EV	0.6m	0.6m	0.9m																																																			
EVV	0.6m	0.6m	0.9m																																																			
Footpath/Unmade	0.6m	0.6m	0.9m																																																			
Road Crossing	0.6m	0.6m	0.9m																																																			
Agricultural	0.6m	0.6m	0.9m																																																			
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<p>0 50m</p>	<p>Dig Sites Area: --- Line: ---</p>	<p>Date Requested: 11/06/2021 Job Reference: 22379388 Site Location: 367176 075049 Requested by: Mr Rory Casey Your Scheme/Reference: Portland Beach Road</p>			<p>Scottish and Southern Energy Power Distribution Ltd. Registered Office: Inverlorn Road, 200 Dunkeld Road, Perth, PH1 3AQ Registered in Scotland No. SC213459 General Enquiries: 0800 086 3516 If you're unsure & need to seek advice before commencing excavations please contact: asset@scsn.co.uk Subject to revision – Master held by SSE in Asset Data Team: 01256 337 294</p>
<p>WARNING There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>		<p>Legend Service Cable 10 Mains 6.6kV 11kV 22kV 33kV 66kV 132kV 275kV 400kV 800kV HV Cable HV Cable</p> <p>Distribution Structures (Electric) Peak Billing Location Peak Structure Existing Location - Single Peak Structure Existing Location - N Duct Route Cross Section Route</p>	<p>Voltagers (V) LV (Low Voltage) and Services Up to 1,000V 2,000V to 11,000V 22,000V to 132,000V HV (Extra High Voltage) Transmission 275,000V and 400,000V</p> <p>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN Laid Services LV HV EHV Footpath/Unmade 0.5m 0.6m 0.8m Road Crossing 0.6m 0.6m 0.75m Agricultural 0m 0m 1.1m</p>		
<p>Scale: 1:500 (When plotted at A3)</p>		<p>BASED UPON THE ORDINANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF THE STATIONERY OFFICE CROWN COPYRIGHT RESERVED. This copy has been made by or with the authority of Scottish and Southern Energy Power Distribution Ltd. Pursuant to section 47 of the Copyright, Designs and Patents Act 1988 ('The Act'). Unless the Act provides a relevant exception to copyright the copy must not be copied without prior permission of the copyright owner. Plans generated by DigSAFE Pro™ software provided by LinesearchbeforeUdig.</p>			

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0 50 m

Dig Sites Area: --- Line: ---

Date Requested: 11/06/2021
 Job Reference: 22379388
 Site Location: 367176 075049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference: Portland
 Beach Road

WARNING
 There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.
 WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

LV (Low Voltage) and Services Up to 1,000V 11kV 22,000V to 132,000V HV (Extra High Voltage) Transmission	Services LV 0.6m 11kV 0.6m 22,000V to 132,000V 0.6m HV 0.6m 275,000V and 400,000V 0.6m 400kV 0.9m 800kV 1.1m
--	--

Legend Service Cable LV Mains 11kV 22kV 132kV 275kV 400kV 800kV HV Mains HV Cable	Distribution Structures (Electric) Peak Building Location Peak Structure Existing Location - Single Peak Structure Existing Location - N Duct Route Cross Section Route
--	---



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0 50m

Dig Sites Area: Line: ---

Date Requested: 11/06/2021
Job Reference: 22379388
Site Location: 367176 075049
Requested by:
Mr Rory Casey
Your Scheme/Reference: Portland
Beach Road

WARNING
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WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)


LV (Low Voltage) and Services	Up to 1,000V	0.6m	0.8m
LV (Extra High Voltage)	22,000V to 132,000V	0.6m	0.9m
Transmission	275,000V and 400,000V	0.6m	0.9m
NORMAL DEPTHS TO THE TOP OF THE CABLE WHEN LAD			
Services	LV	0.6m	0.8m
Footpath/Unmade	0.6m	0.6m	0.75m
Road Crossing	0.6m	0.6m	0.75m
Agricultural	0.6m	0.6m	1.1m


Legend

- Service Cable
- 19 Main
- 6.6kV
- 11kV
- 22kV
- 66kV
- 132kV
- 275kV
- 400kV
- Other Cable

Distribution Structures (Electric)

- Peak Building Location
- Peak Structure Existing Location - Single
- Peak Structure Existing Location - N
- Duct Route
- Cross Section Route



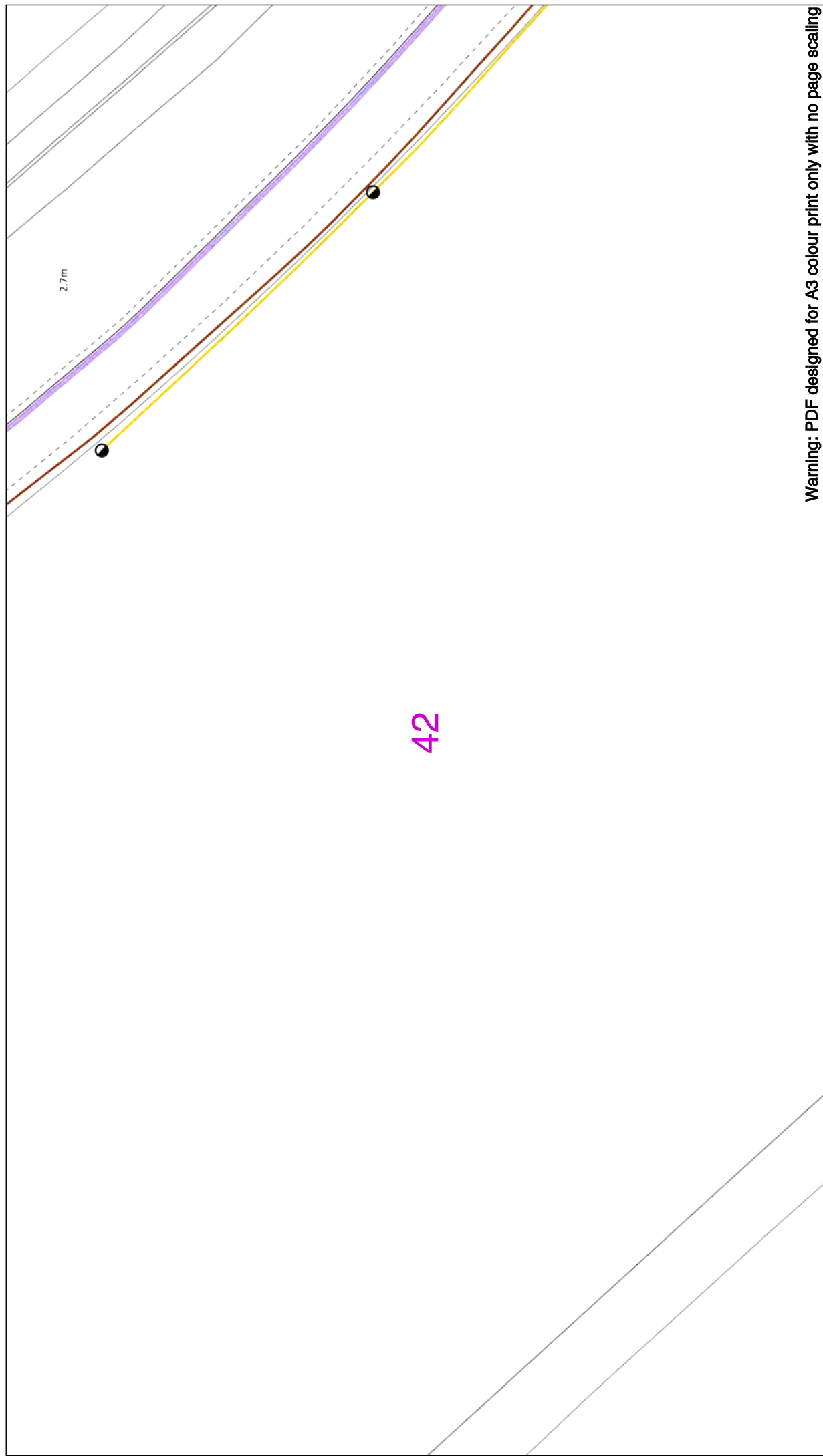


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Scale: 1:500 (When plotted at A3)

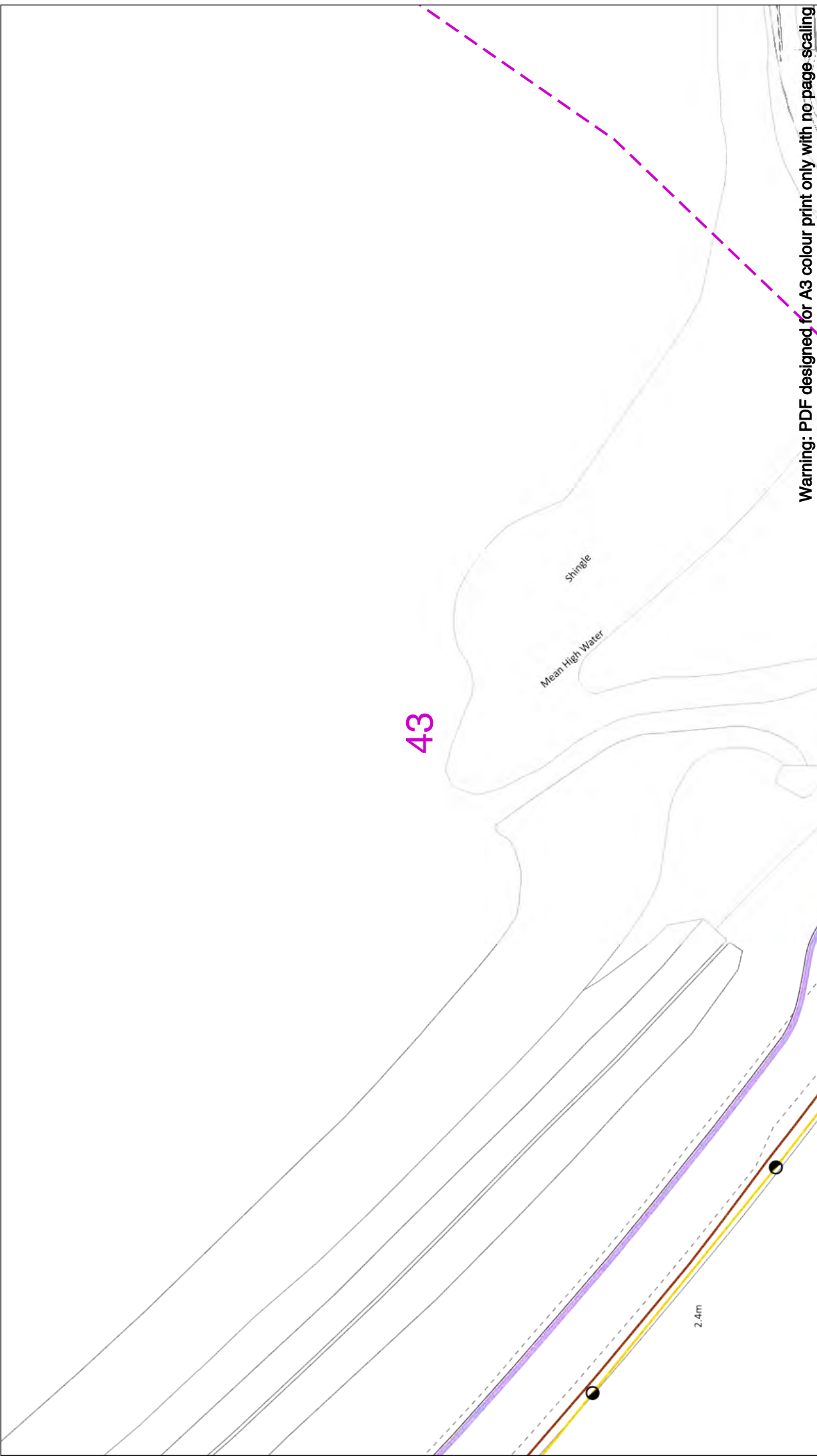
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<p>Date Requested: 11/06/2021 Job Reference: 22378388 Site Location: 367176 075049 Requested by: Mr Rory Casey Your Scheme/Reference: Portland Beach Road</p>	<p>50m </p>	<p>Dig Sites Area: Line: ---</p>	<p style="color: red; font-weight: bold;"> WARNING There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE) </p>	<p>Voltagers (V) LV (Low Voltage) and Services: Up to 1,000V MV (Medium Voltage): 1.1kV to 17.5kV HV (Extra High Voltage): 22,000V to 400,000V Transmission: 275,000V and 400,000V</p> <p>NORMAL DEPTHS TO THE TOP OF THE CABLE WHEN Laid</p> <table border="1" style="font-size: 8pt;"> <tr> <td>Footpath/Unmade Road</td> <td>0.45m</td> <td>LV</td> <td>0.6m</td> <td>EV</td> <td>0.8m</td> </tr> <tr> <td>Road Crossing</td> <td>0.6m</td> <td>LV</td> <td>0.6m</td> <td>EV</td> <td>0.9m</td> </tr> <tr> <td>Agricultural</td> <td>0.6m</td> <td>LV</td> <td>0.6m</td> <td>EV</td> <td>0.9m</td> </tr> <tr> <td></td> <td></td> <td>LV</td> <td>0.6m</td> <td>EV</td> <td>1.1m</td> </tr> </table>	Footpath/Unmade Road	0.45m	LV	0.6m	EV	0.8m	Road Crossing	0.6m	LV	0.6m	EV	0.9m	Agricultural	0.6m	LV	0.6m	EV	0.9m			LV	0.6m	EV	1.1m	<p>Legend</p> <p>Service Cable LV Mains 6.6kV 11kV 22kV 33kV 66kV 132kV 275kV 400kV HV Mains HV Extra High Voltage HV Mains HV Extra High Voltage HV Mains</p> <p>Distribution Structures (Electric) Pole/Structure Location Pole/Structure Location - Engage Pole/Structure Location - In Duct Route Cross Section Route</p>	<p> N E S W</p>	<p> Scottish & Southern Electricity Networks Registered Office: Inverclyde House, 200 Dunkeld Road, Perth, PH1 3AQ Registered in Scotland No. SC213459 General Enquiries: 0800 088 3516 If you're unsure & need to seek advice before commencing excavations please contact: asset.data@scsn.com 01256 337 294</p>
Footpath/Unmade Road	0.45m	LV	0.6m	EV	0.8m																										
Road Crossing	0.6m	LV	0.6m	EV	0.9m																										
Agricultural	0.6m	LV	0.6m	EV	0.9m																										
		LV	0.6m	EV	1.1m																										
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 Site Location: 367176 075049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference: Portland
 Beach Road

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 WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Voltagers (V) LV (Low Voltage) and Services Up to 1,000V 230V EHV (Extra High Voltage) Transmission	NORMAL DEPTHS TO THE TOP OF THE CABLE WHEN LAYED
Services	0.45m
LV	0.6m
IV	0.6m
EHV	0.8m
Footpath/Unmade	0.75m
Road Crossing	0.9m
Agricultural	1.1m

Legend

- Service Cable
- 19 Mains
- 6.6KV
- 11KV
- 22KV
- 33KV
- 66KV
- 132KV
- 275KV
- 400KV
- EHV
- Pole Cable

Distribution Structures (Electric)

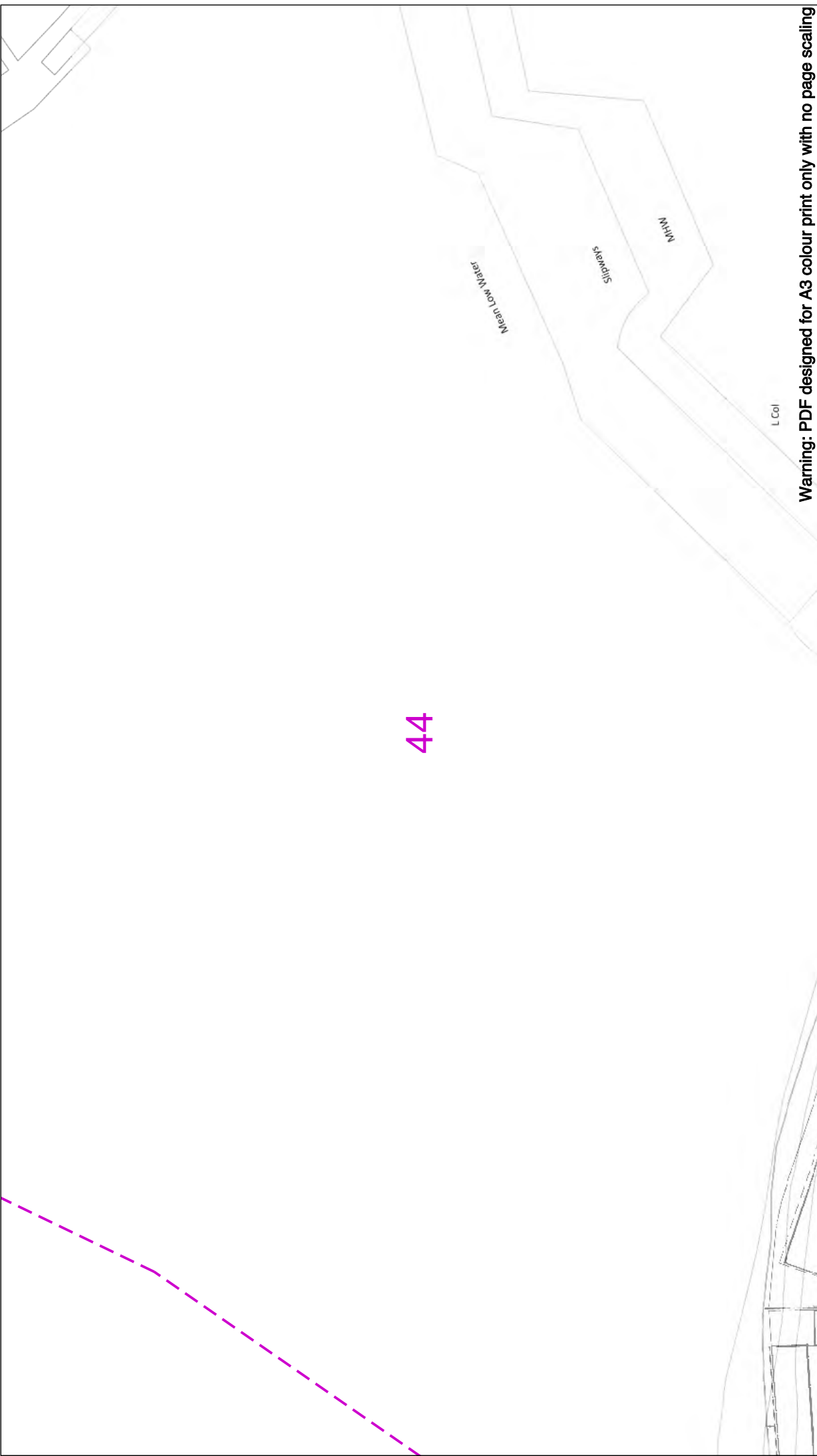
- Peak Building Location
- Peak Structure Existing Location - Single
- Peak Structure Existing Location - N
- Duct Route
- Cross Section Route




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 Job Reference: 22379388
 Site Location: 367176 075049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference: Portland
 Beach Road

WARNING
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 WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Voltagers (V)	
LV (Low Voltage) and Services	Up to 1,000V
Medium Voltage	1,100V to 17,500V
EHV (Extra High Voltage)	22,000V to 400,000V
Transmission	275,000V and 400,000V

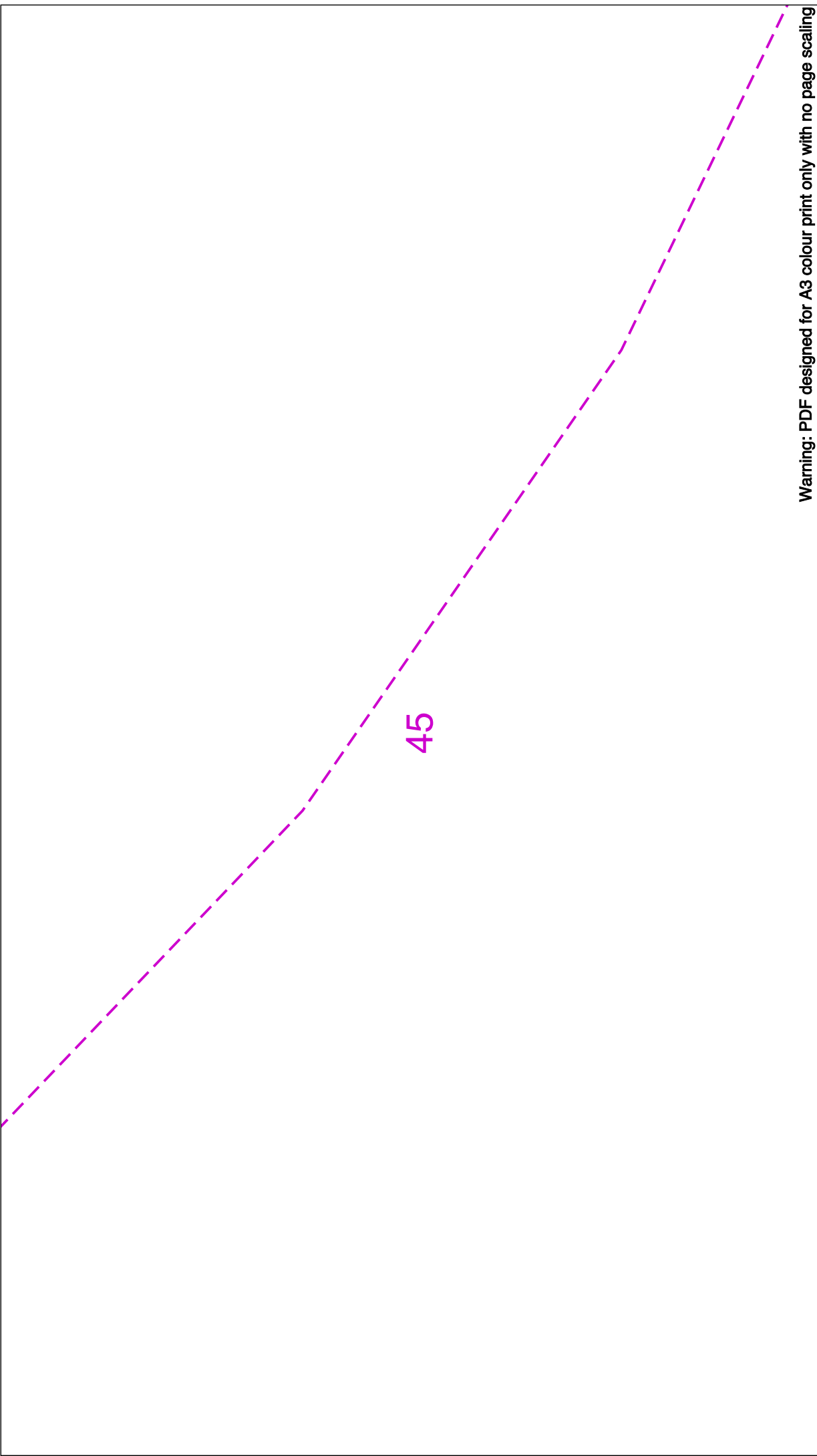
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN Laid	
Footpath/Unmade	0.45m
Road Crossing	0.6m
Agricultural	0.6m
Services	0.6m
IV	0.6m
EHV	0.8m
0.9m	0.9m
1.1m	1.1m

Legend	
Service Cable	10kV
17.5kV	6.6kV
11kV	22kV
22kV	66kV
132kV	275kV
400kV	400kV
EHV	EHV
Peak Cable	Peak Cable

Distribution Structures (Electric)	
Peak Building Location	Peak Building Location
Peak Structure Existing Location	Peak Structure Existing Location
Peak Structure Existing Location	Peak Structure Existing Location
Duct Route	Duct Route
Cross Section Route	Cross Section Route

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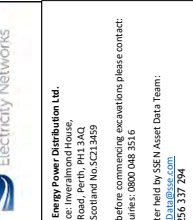
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		<p>Scottish and Southern Energy Power Distribution Ltd.</p> <p>Registered Office: Inverchonnard House, 200 Dunkeld Road, Perth, PH1 3AQ</p> <p>Registered in Scotland No. SC213459</p> <p>General Enquiries: 0800 048 3516</p> <p>If you're unsure & need to seek advice before commencing excavations please contact: asset@scsn.co.uk</p> <p>Subject to revision – Master held by SSE in Asset Data Team: 01256 337 294</p>	<p>0</p>																																																		

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Dig Sites Area: --- Line: ---

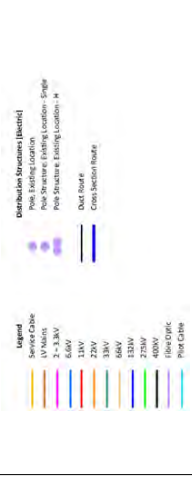

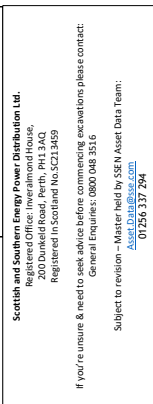
Date Requested: 11/06/2021
Job Reference: 22379388
Site Location: 367176 075049
Requested by:
Mr Rory Casey
Your Scheme/Reference: Portland
Beach Road

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WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES G56 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

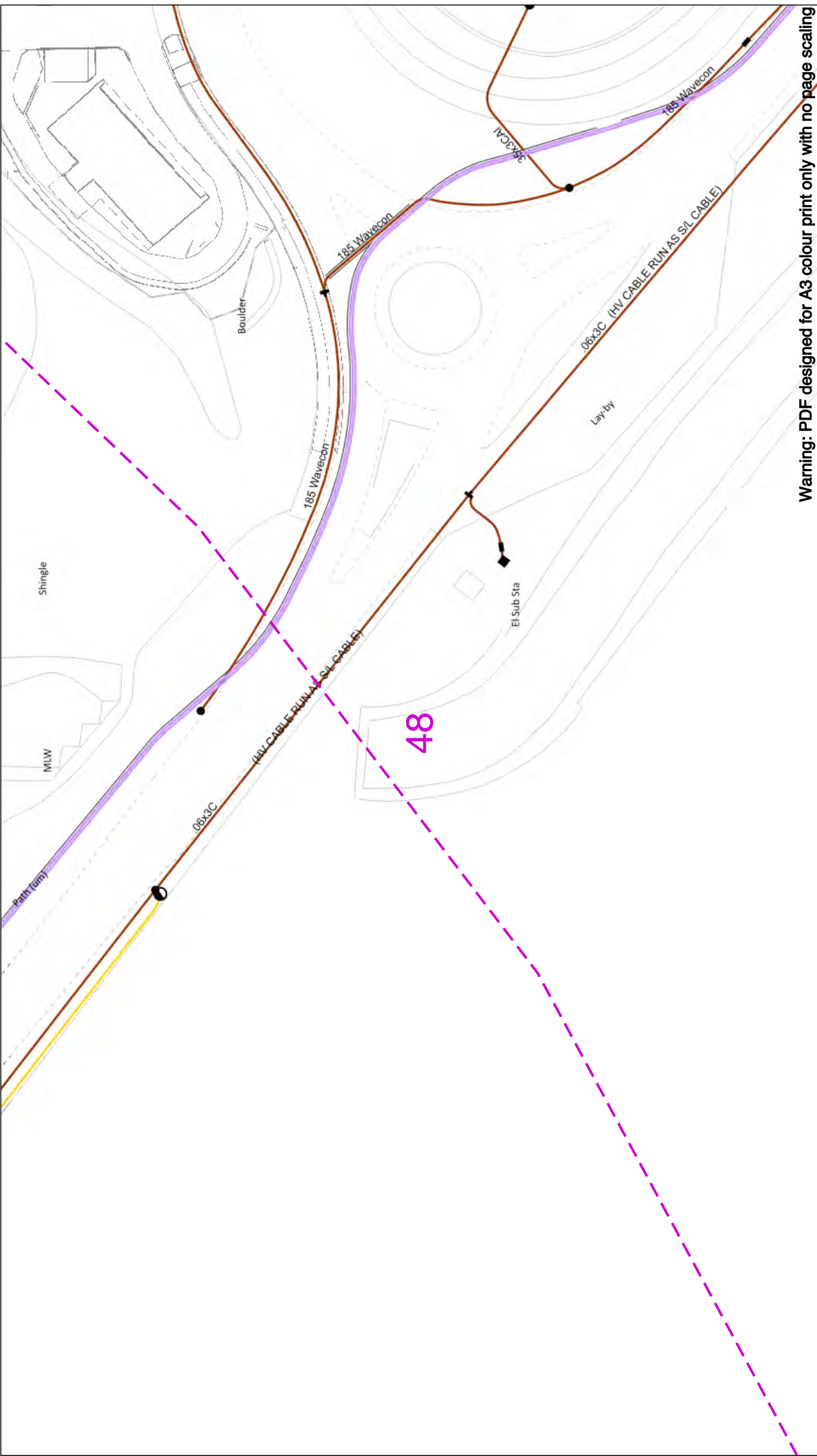
LV (Low Voltage) and Services	Up to 1,000V	0.6m	0.8m
Medium Voltage	1.1kV to 17.5kV	0.6m	0.9m
EV (Extra High Voltage)	22,000V to 52,000V	0.6m	0.9m
Transmission	275,000V and 400,000V	0.6m	0.9m

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD

Services	LV	0.6m	0.8m
	IV	0.6m	0.9m
	EV	0.6m	0.9m
Footpath/Unmade		0.6m	0.75m
Road Crossing		0.6m	0.75m
Agricultural		0.6m	1.1m

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assetdata@scsn.co.uk
01256 337 294



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0 **50 m**

Dig Sites Area: Line:

WARNING

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WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Date Requested: 11/06/2021
 Job Reference: 22378388
 Site Location: 367176 075049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference: Portland Beach Road

VALGERS (V)

LV (Low Voltage) and Services	Up to 1,000V
MV (Medium Voltage)	1,100V to 33,000V
EHV (Extra High Voltage) Transmission	275,000V and 400,000V

NORMAL DEPTHS TO THE TOP OF THE CABLE WHEN LAD

Footpath/Jurisdic	0.5m	IV	0.6m	EHV	0.8m
Road Crossing	0.5m	IV	0.6m	EHV	0.9m
Agricultural	0.5m	IV	0.6m	EHV	1.1m

Legend

- Service Cable
- LV Main
- MV Main
- EHV Main
- 11kV
- 22kV
- 33kV
- 132kV
- 275kV
- 400kV
- EHV
- EHV Cable

Distribution Structures (Electrical)

- Peak Loading Location
- Peak Structure Existing Location - Single
- Peak Structure Existing Location - N
- Duct Route
- Cross Section Note

Scottish & Southern Electricity Networks

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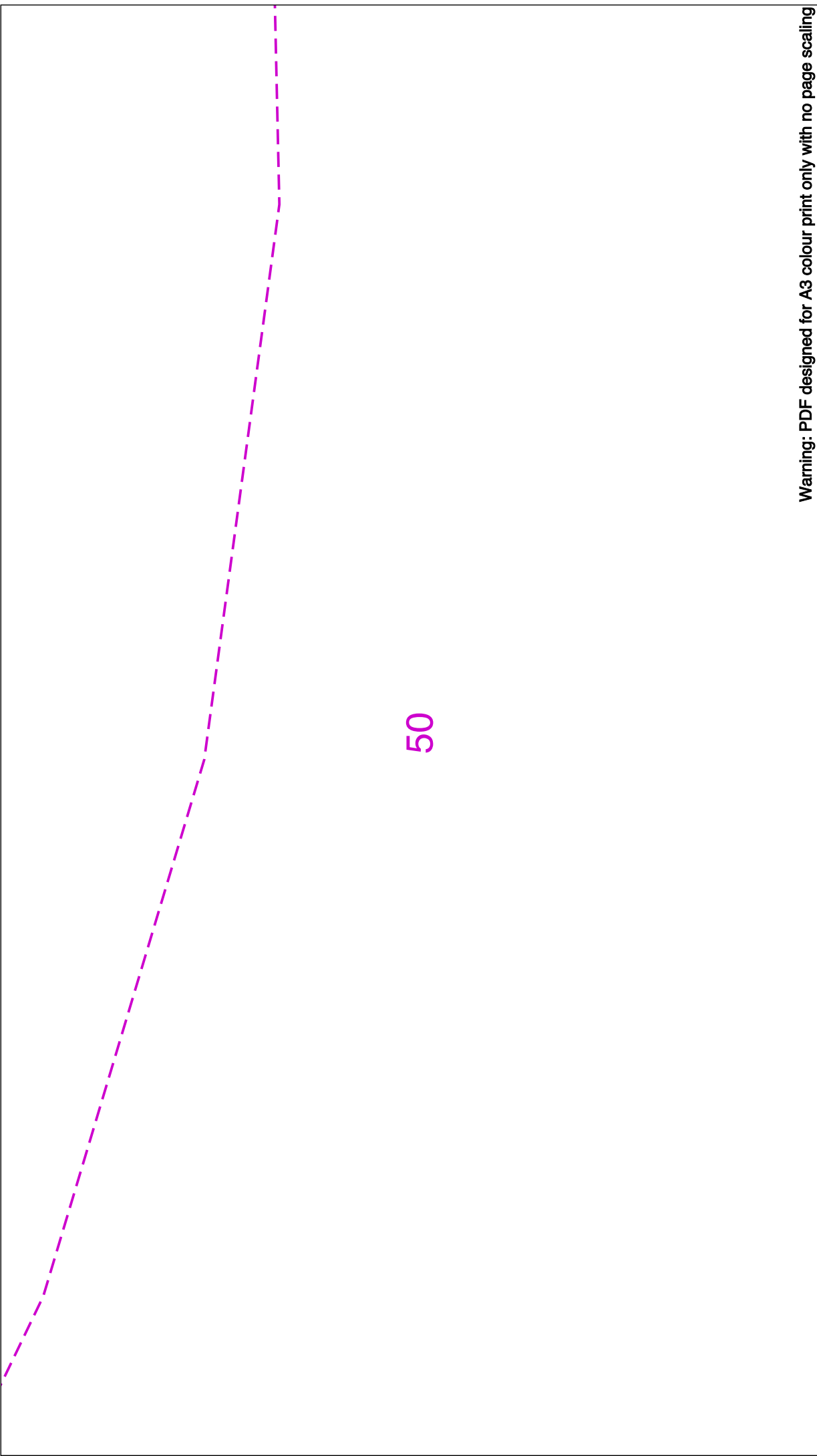
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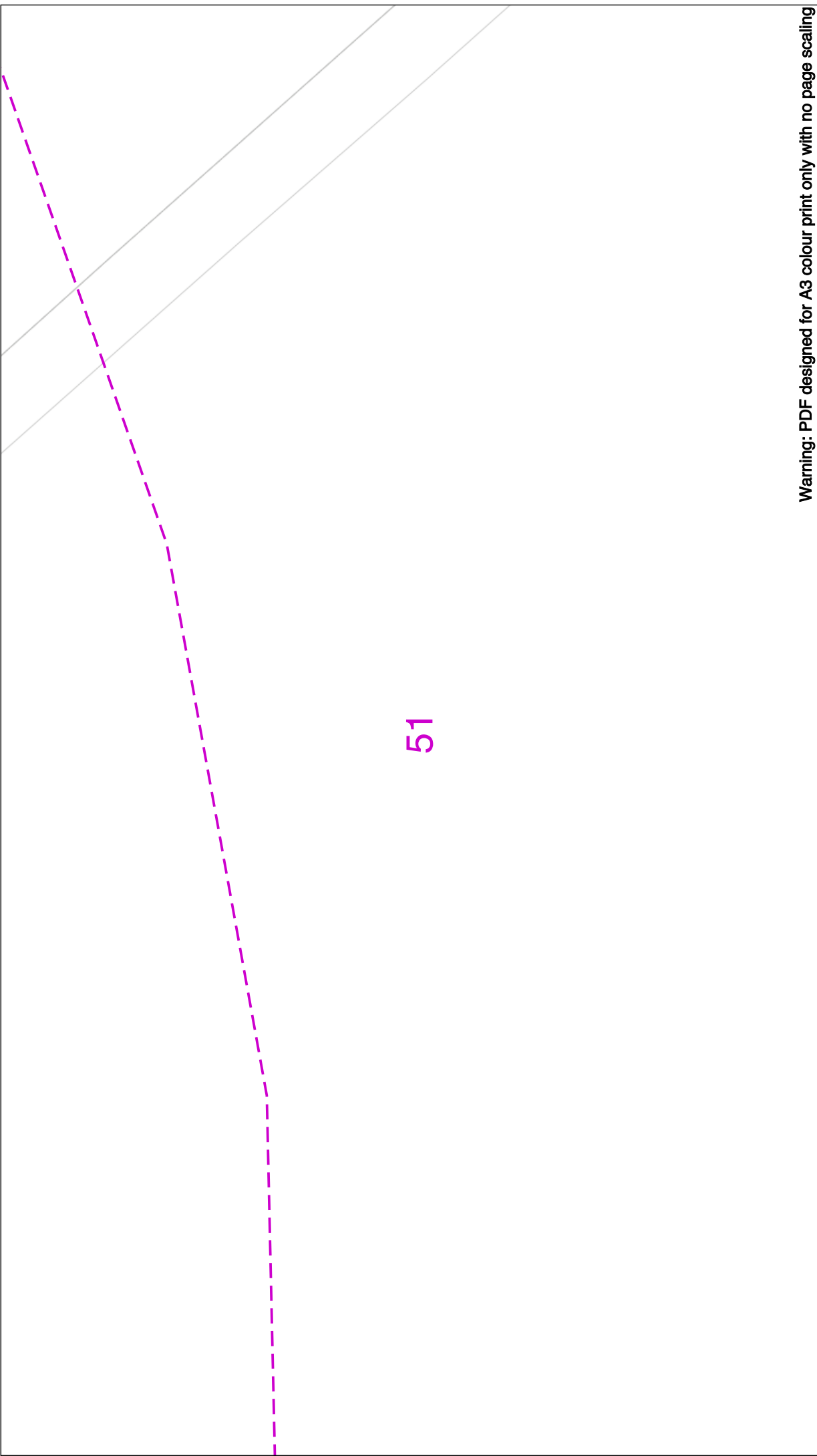
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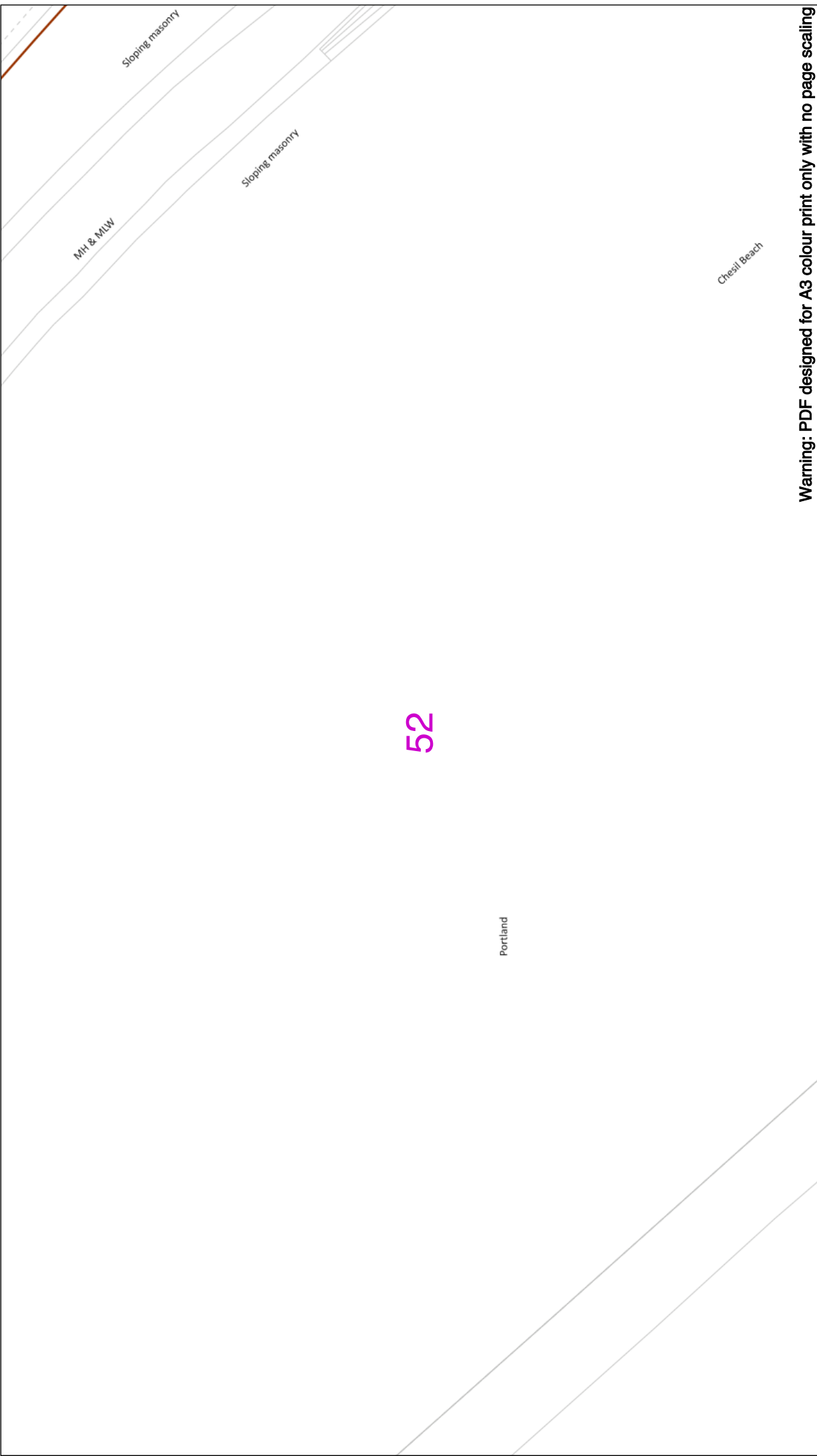
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Dig Sites **Area:** **Line:**

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Voltagers (V)
 LV (Low Voltage) and Services Up to 1,000V
 MV (Medium Voltage) 1.1kV to 33kV
 HV (Extra High Voltage) 33kV to 400kV
 Transmission 275,000V and 400,000V

NORMAL DEPTHS TO THE TOP OF THE CABLE WHEN Laid

Footpath/Unmade Road	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m
Agricultural	0.6m	0.6m	1.1m

Services LV HV EHV
 0.45m 0.6m 0.8m
 0.6m 0.6m 0.75m
 0.6m 0.6m 1.1m

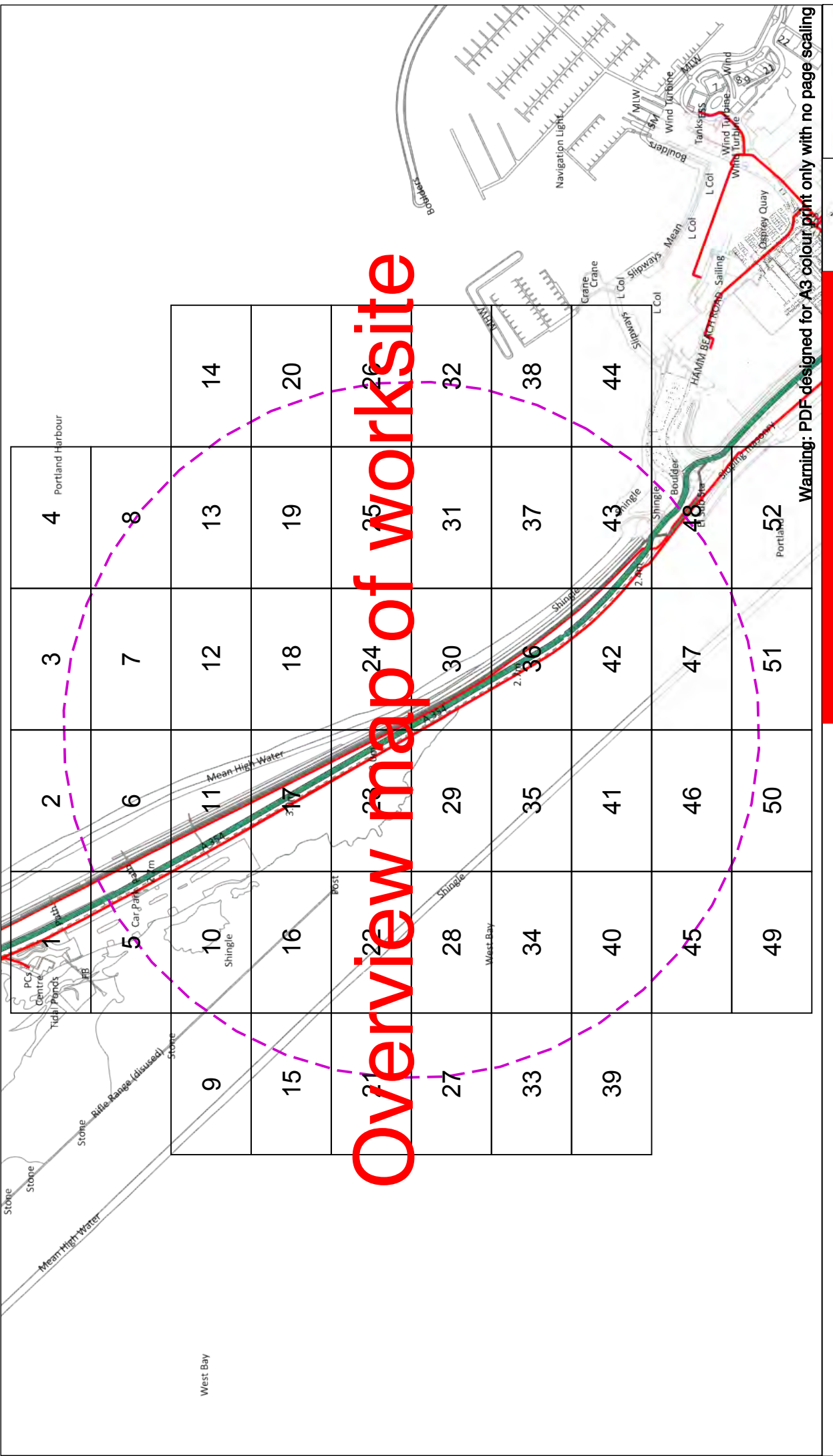
Legend

Service Cable
 10 Mains
 6.6kV
 11kV
 22kV
 33kV
 66kV
 132kV
 275kV
 400kV
 HV
 EHV
 HV Cable
 EHV Cable

Distribution Structures (Electric)
 Peak Existing Location
 Peak Structure Existing Location - Single
 Peak Structure Existing Location - N
 Duct Route
 Cross Section Route

Scottish & Southern Electricity Networks

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asset.data@scsn.co.uk
 01256 337 294

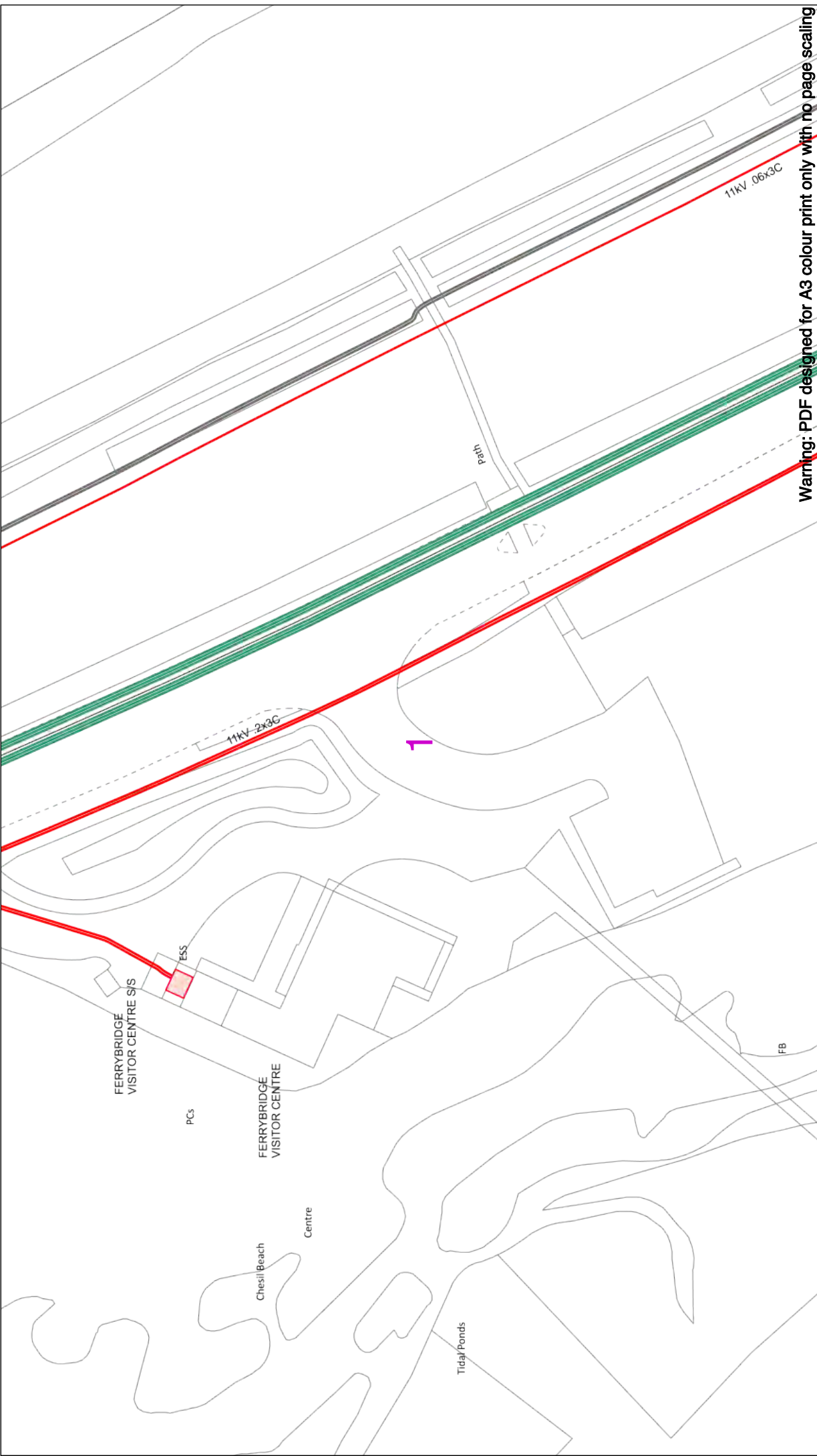


Overview map of worksite

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<p>Date Requested: 11/06/2021 Job Reference: 22379388 Site Location: 367176 075049 Requested by: Mr Rory Casey Your Scheme/Reference: Portland Beach Road</p>	<p>WARNING There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive - Avoiding Danger from Buried Cables - should be consulted before commencing excavation work. WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>	<p>Legend</p> <p>Service Cable LV Mains 2-23kV 33kV 275kV 33kV 66kV 110kV 275kV 400kV HV Cable</p> <p>Buried Structure (Revised) Pole Existing Location Pole Structure Existing Location - Single Pole Structure Existing Location - H</p> <p>Dark Route Cross Section Route</p>	<p>Voltagers (V) Up to 1,000V 1.1kV 22,000V to 132,000V HV (Extra High Voltage) Transmission 275,000V and 400,000V</p> <p>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD</p> <table border="1"> <tr><td>Services</td><td>LV</td><td>61V</td></tr> <tr><td>Footpath/Jurisdic</td><td>0.6m</td><td>0.6m</td></tr> <tr><td>0.6m</td><td>0.6m</td><td>0.6m</td></tr> <tr><td>0.6m</td><td>0.6m</td><td>0.9m</td></tr> <tr><td>0.6m</td><td>0.6m</td><td>0.9m</td></tr> <tr><td>0.6m</td><td>0.6m</td><td>1.1m</td></tr> <tr><td>0.6m</td><td>0.6m</td><td>1.1m</td></tr> <tr><td>0.6m</td><td>0.6m</td><td>1.1m</td></tr> <tr><td>0.6m</td><td>0.6m</td><td>1.1m</td></tr> <tr><td>0.6m</td><td>0.6m</td><td>1.1m</td></tr> <tr><td>0.6m</td><td>0.6m</td><td>1.1m</td></tr> </table>	Services	LV	61V	Footpath/Jurisdic	0.6m	0.6m	0.6m	0.6m	0.6m	0.6m	0.6m	0.9m	0.6m	0.6m	0.9m	0.6m	0.6m	1.1m	0.6m	0.6m	1.1m	0.6m	0.6m	1.1m	0.6m	0.6m	1.1m	0.6m	0.6m	1.1m	0.6m	0.6m	1.1m
Services	LV	61V																																		
Footpath/Jurisdic	0.6m	0.6m																																		
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0.6m	0.6m	1.1m																																		
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0.6m	0.6m	1.1m																																		
0.6m	0.6m	1.1m																																		
Extra High Voltage cables in vicinity																																				
<p>Dig Sites Area: Line: --- --- --- ---</p>																																				
<p>Scale: 1:5125 (When plotted at A3)</p>																																				
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01256.337.294



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0 **50 m**

Dig Sites **Area:** **Line:**

WARNING
 There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.
WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES G56 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Legend

Service Cable	11kV
11kV	23kV
23kV	33kV
33kV	66kV
66kV	110kV
110kV	275kV
275kV	400kV
400kV	Other

Structures (Hatched)

- Point Existing Location
- Point Structure Existing Location - Single
- Point Structure Existing Location - M
- Duct Route
- Cross Section Route

Volages (V)
 LV (Low Voltage) and Services: Up to 1,000V
 MV (Medium Voltage): 1,000V to 10,000V
 HV (Extra High Voltage) Transmission: 275,000V and 400,000V

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD

Footpath/Unmade	0.45m	IV	0.6m	EV	0.8m
Road Crossing	0.6m	IV	0.6m	EV	0.9m
Agricultural	0.6m	IV	0.75m	EV	1.1m

Date Requested: 11/06/2021
 Job Reference: 22379388
 Site Location: 367176 075049
 Requested by: Mr Rory Casey
 Your Scheme/Reference: Portland Beach Road

Scale: 1:500 (When plotted at A3)

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2

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0 50m

Dig Sites Area: Line: ---

Date Requested: 11/06/2021
 Job Reference: 22379388
 Site Location: 367176 075049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference: Portland
 Beach Road

WARNING
 There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.
 WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

LV (Low Voltage) and Services	Up to 1,000V	0.6m	0.8m
EV (Extra High Voltage)	22,000V to 432,000V	0.6m	0.9m
Transmission	275,000V and 400,000V	0.6m	0.9m

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD

Services	LV	EV
Footpath/Unmade	0.5m	0.6m
Road Crossing	0.6m	0.75m
Agricultural	0.6m	0.9m
	0.6m	1.1m

Service Cable	1V	2-23kV	33kV	275kV	400kV	High Voltage	Overhead
Structure	Point to structure, Existing location	Point to structure, Existing location	Duct route	Cross Section Route			

Extra High Voltage cables in vicinity



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3

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0 50m

Dig Sites Area: Line:

Extra High Voltage cables in vicinity

Date Requested: 11/06/2021
Job Reference: 22379388
Site Location: 367176 075049
Requested by:
Mr Rory Casey
Your Scheme/Reference: Portland
Beach Road

WARNING
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WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

LV (Low Voltage) and Services	Up to 1,000V	0.6m	0.6m	0.8m
LV (Extra High Voltage)	1,000V to 132,000V	0.6m	0.6m	0.9m
Transmission	275,000V and 400,000V	0.6m	0.75m	1.1m

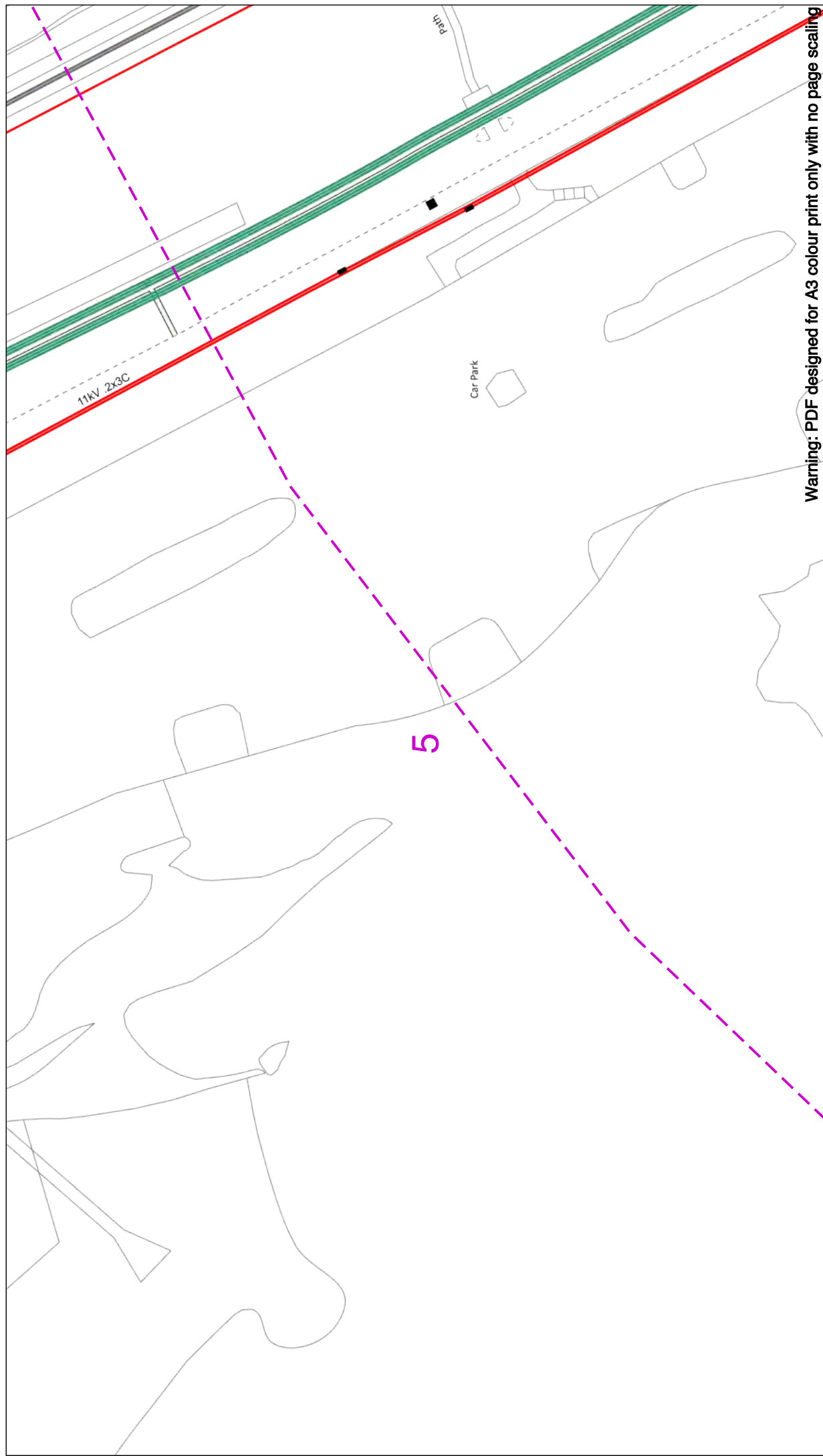
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD

Services	LV	0.6m	0.6m	0.8m
	IV	0.6m	0.6m	0.9m
	EHV	0.6m	0.75m	1.1m

Service Cable	1V	2-33kV	33kV	220kV	330kV	400kV	725kV	1000kV	EHV Cable
Substation Structure (Shield)	Peak Existing Location	Peak to occur Existing Location - Single	Peak to occur Existing Location - H	Dist. to core	Cross Section Route				

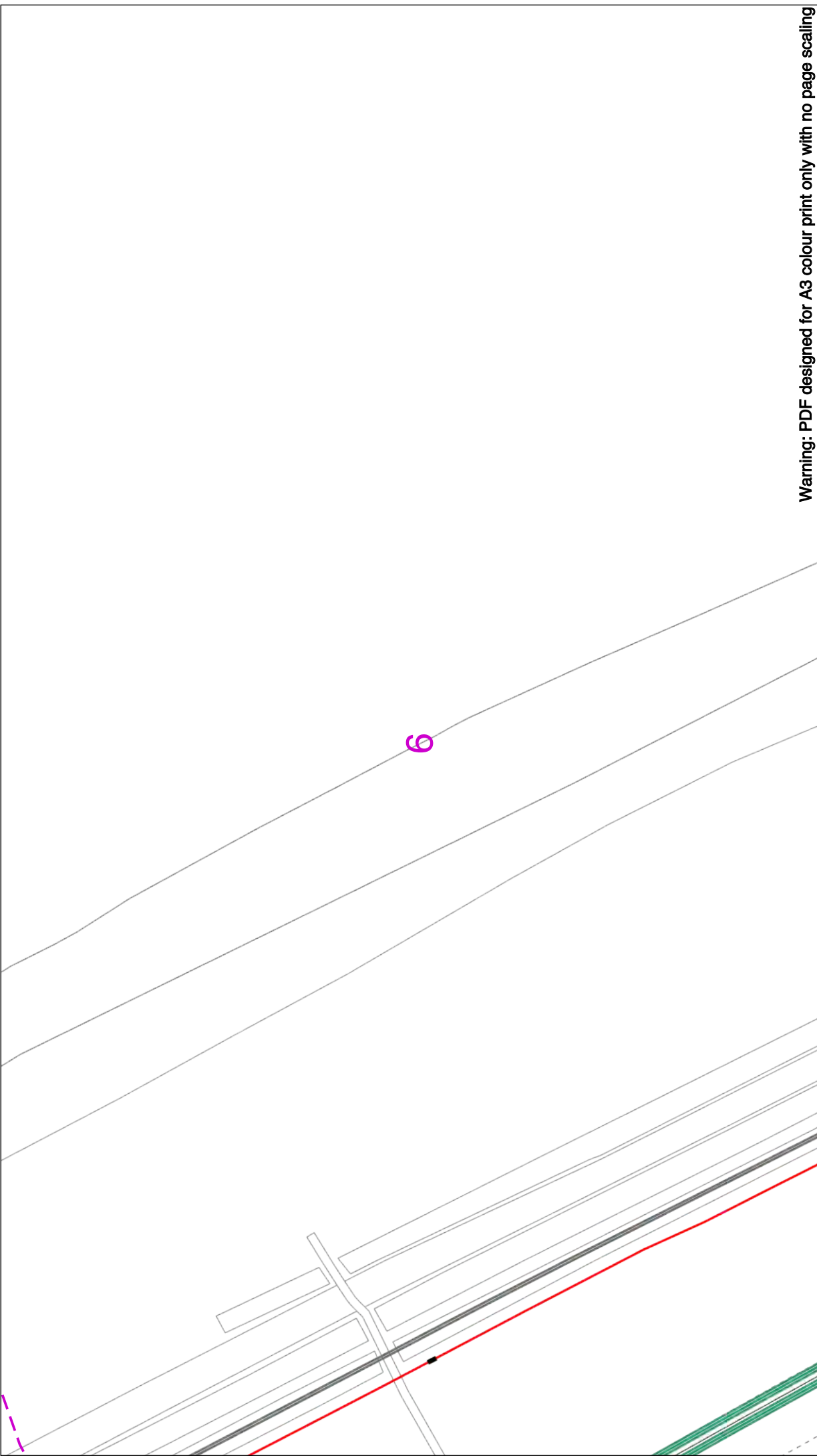
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<p>0 50m</p> <p>Dig Sites Area: Line: </p>	<p>WARNING</p> <p>There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES G56 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>	<p>Voltagers (V)</p> <table border="1"> <tr><td>Up to 1,000V</td><td>0.6m</td><td>0.6m</td><td>0.8m</td></tr> <tr><td>1,000V to 17.5kV</td><td>0.6m</td><td>0.6m</td><td>0.9m</td></tr> <tr><td>17.5kV to 33kV</td><td>0.6m</td><td>0.6m</td><td>0.9m</td></tr> <tr><td>33kV to 132kV</td><td>0.6m</td><td>0.6m</td><td>0.9m</td></tr> <tr><td>132kV to 275kV</td><td>0.6m</td><td>0.6m</td><td>0.9m</td></tr> <tr><td>275kV to 400,000V</td><td>0.6m</td><td>0.6m</td><td>0.9m</td></tr> <tr><td>400,000V and above</td><td>0.6m</td><td>0.6m</td><td>0.9m</td></tr> </table> <p>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID</p> <table border="1"> <tr><td>Services</td><td>1V</td><td>0.6m</td><td>0.8m</td></tr> <tr><td>Footpath/Unmade</td><td>0.6m</td><td>0.6m</td><td>0.9m</td></tr> <tr><td>Road Crossing</td><td>0.6m</td><td>0.6m</td><td>0.9m</td></tr> <tr><td>Agricultural</td><td>0.6m</td><td>0.6m</td><td>0.9m</td></tr> </table>	Up to 1,000V	0.6m	0.6m	0.8m	1,000V to 17.5kV	0.6m	0.6m	0.9m	17.5kV to 33kV	0.6m	0.6m	0.9m	33kV to 132kV	0.6m	0.6m	0.9m	132kV to 275kV	0.6m	0.6m	0.9m	275kV to 400,000V	0.6m	0.6m	0.9m	400,000V and above	0.6m	0.6m	0.9m	Services	1V	0.6m	0.8m	Footpath/Unmade	0.6m	0.6m	0.9m	Road Crossing	0.6m	0.6m	0.9m	Agricultural	0.6m	0.6m	0.9m	<p>Legend</p> <ul style="list-style-type: none"> Service Cable 1V Work 2-33kV 33kV 275kV 33kV 100kV 132kV 275kV 400kV Other cables Prop Cable <p>Waterways Structures (Marked)</p> <ul style="list-style-type: none"> Point Existing Location Point to Measure, Existing Location - Single Point to Measure, Existing Location - M Duct Route Cross Section Route 	<p>Scottish & Southern Electricity Networks</p> <p>Scottish and Southern Energy Power Distribution Ltd. Registered Office: Inverchonnard House, 200 Dunkeld Road, Perth, PH1 3AQ Registered in Scotland No. SC213459</p> <p>If you're unsure & need to seek advice before commencing excavations please contact: General Enquiries: 0800 048 3516 Subject to revision - Master held by SSE M Asset Data Team: assetdata@scsn.co.uk 01256 337 294</p>
Up to 1,000V	0.6m	0.6m	0.8m																																													
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33kV to 132kV	0.6m	0.6m	0.9m																																													
132kV to 275kV	0.6m	0.6m	0.9m																																													
275kV to 400,000V	0.6m	0.6m	0.9m																																													
400,000V and above	0.6m	0.6m	0.9m																																													
Services	1V	0.6m	0.8m																																													
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Road Crossing	0.6m	0.6m	0.9m																																													
Agricultural	0.6m	0.6m	0.9m																																													
<p>Date Requested: 11/06/2021 Job Reference: 22378388 Site Location: 367176 075049 Requested by: Mr Rory Casey Your Scheme/Reference: Portland Beach Road</p>	<p>BASED UPON THE ORDINANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE CROWN COPYRIGHT RESERVED. This copy has been made by or with the authority of Scottish and Southern Energy Power Distribution Ltd. Pursuant to section 47 of the Copyright, Designs and Patents Act 1988 ('The Act'), Unless the Act provides a relevant exception to copyright, the copy must not be copied without prior permission of the copyright owner. Plans generated by DigSAFE Pro™ software provided by LinesearchbeforeUdig.</p>																																															



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0 50m

Dig Sites Area: Line:

0 50m

Line:

WARNING

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WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Volages (V)	Up to 1,000V	1.50m	0.8m
LV (Low Voltage) and Services	1,000V to 17.5kV	1.50m	0.9m
EV (Extra High Voltage)	22,000V to 52,000V	1.50m	1.1m
Transmission	275,000V and 400,000V	1.50m	1.1m

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD

Services	LV	0.6m	0.8m
Footpath/Unmade	LV	0.6m	0.9m
Road Crossing	LV	0.6m	0.9m
Agricultural	LV	0.6m	0.9m

Date Requested: 11/06/2021

Job Reference: 22378388

Site Location: 367176 075049

Requested by: Mr Rory Casey

Your Scheme/Reference: Portland Beach Road

Legend

Service Cable

- 1V Mains
- 2-23kV
- 23kV
- 33kV
- 66kV
- 110kV
- 275kV
- 400kV
- High Voltage
- Power Cable

Infrastructure Structures (Marked)

- Point Existing Location
- Point to secure Existing Location - Single
- Point Structure Existing Location - H
- Duct Route
- Cross Section Route

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General Enquiries: 0800 048 3516

Scottish & Southern Electricity Networks

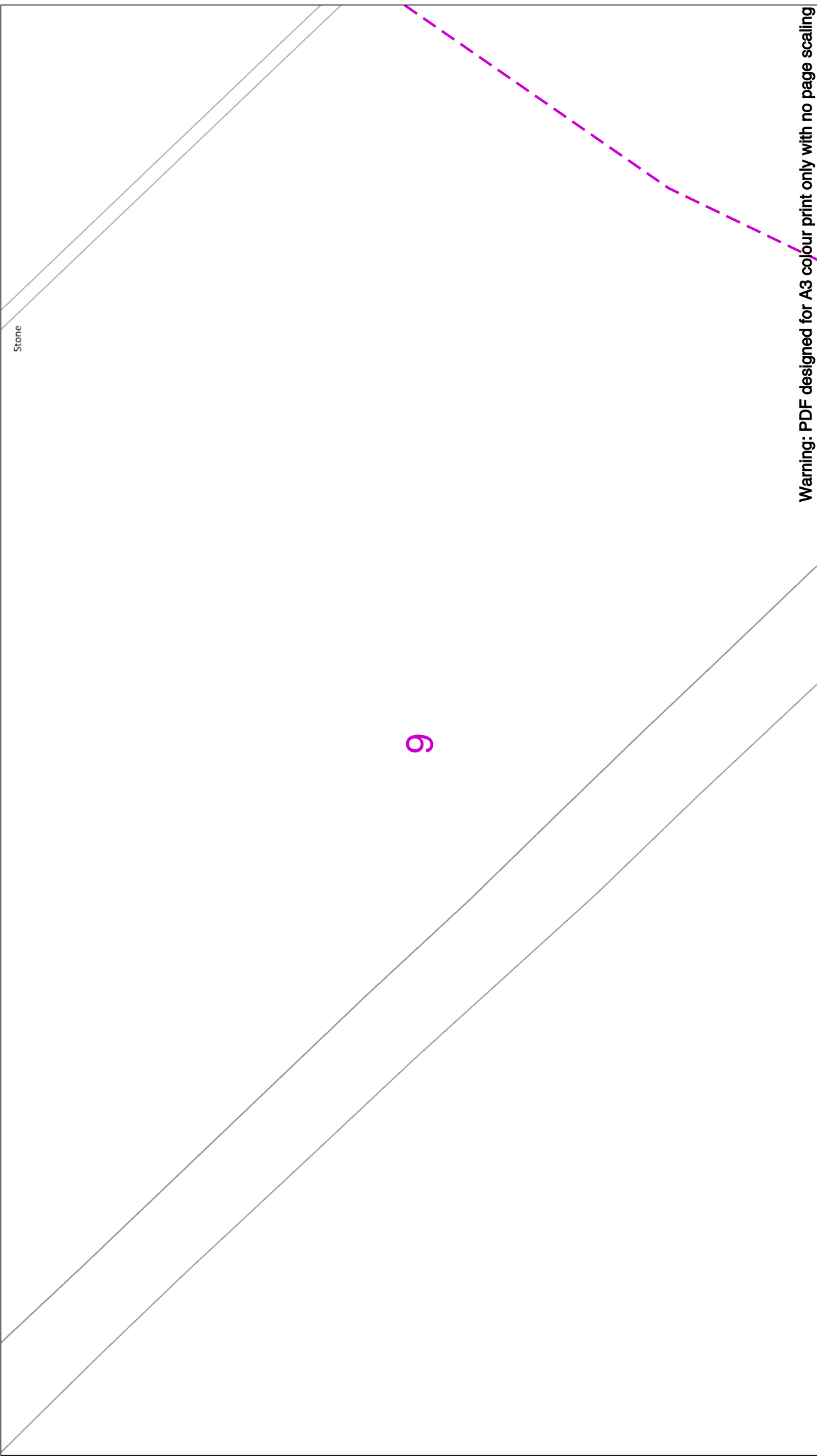
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Date Requested: 11/06/2021
 Job Reference: 22379388
 Site Location: 367176 075049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference: Portland
 Beach Road

50 m

Dig Sites Area: Line:

WARNING

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Legend

Service Cables

- 1V Mains
- 2-230V
- 230V
- 23kV
- 33kV
- 66kV
- 110kV
- 275kV
- 400kV
- High Voltage
- Power Cable

Wavelengths Structures (Marked)

- Peak Existing Location
- Peak to secure Existing Location - Single
- Peak Structure Existing Location - H
- Dark Route
- Cross Section Route

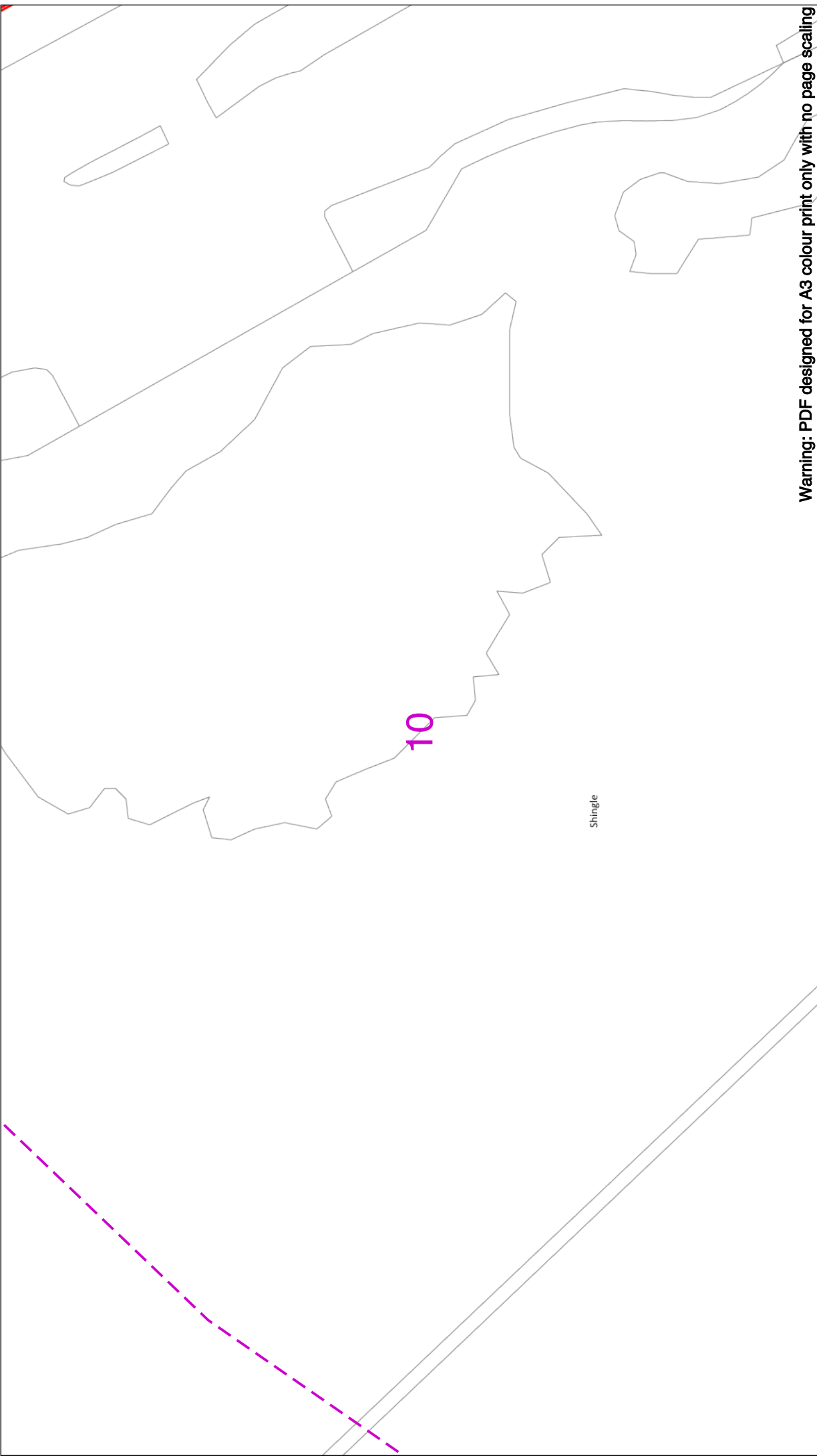
Voltagers (V)

Up to 1,000V
 1,000V to 11,000V
 11,000V to 22,000V
 22,000V to 33,000V
 33,000V to 66,000V
 66,000V to 110,000V
 110,000V to 275,000V
 275,000V to 400,000V
 400,000V to 1,100,000V

NORMAL DEPTHS TO THE TOP OF THE CABLE WHEN LAD

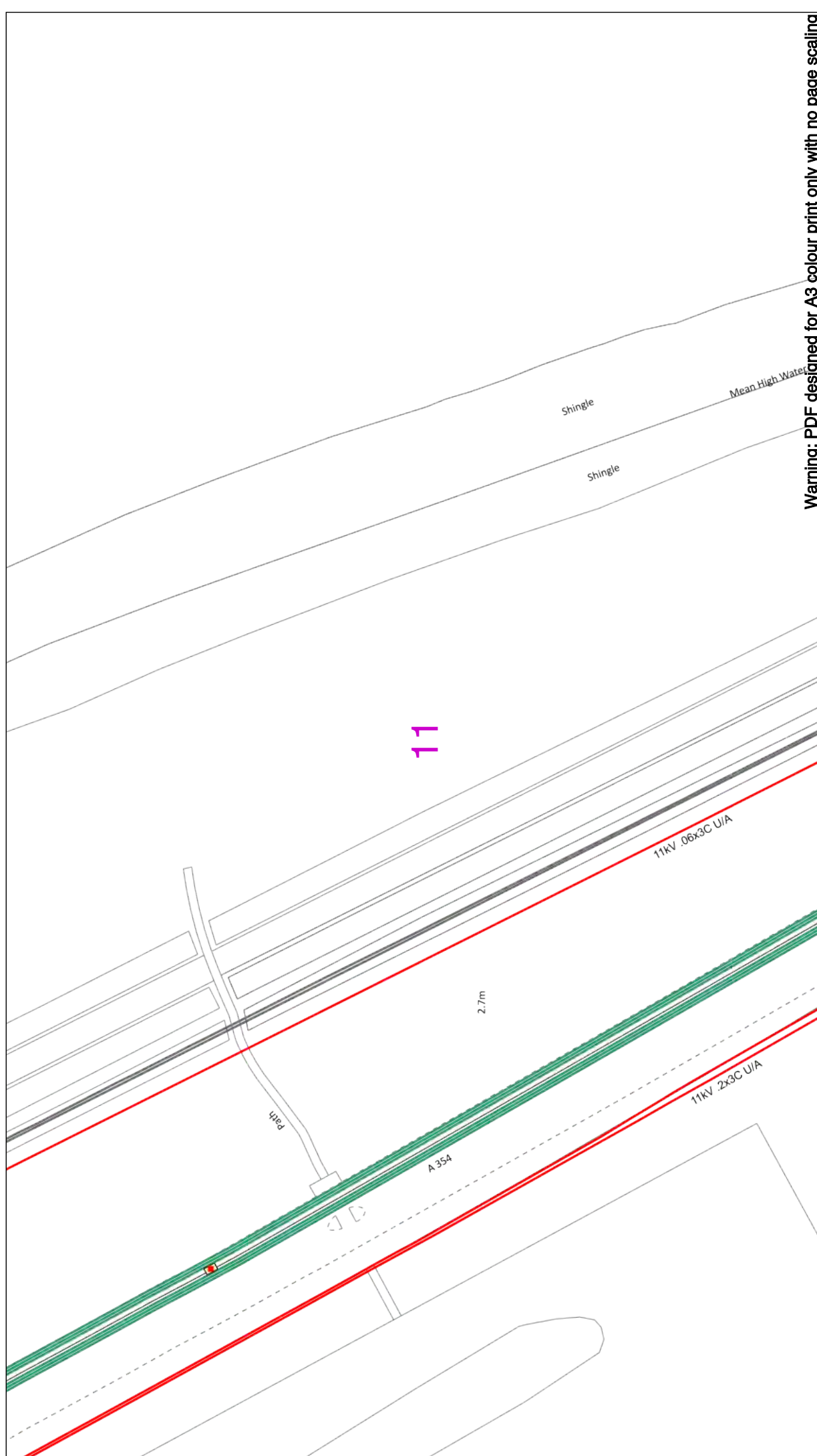
Services	1V	IV	EV
Footpath/Unmade	0.5m	0.6m	0.8m
Road Crossing	0.5m	0.6m	0.75m
Agricultural	0m	0m	0m
	0m	0m	1.1m

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Extra High Voltage cables in vicinity																	
<p>Legend</p> <ul style="list-style-type: none"> Service Cable 1V Mains 2-23kV 33kV 275kV 33kV 66kV 110kV 275kV 400kV High Voltage Prop Cable <p>Overhead Structures (Noted)</p> <ul style="list-style-type: none"> Peak Existing Location Peak To occur, Existing Location - Single Peak Structure, Existing Location - H Duct Route Cross Section Route 	<p>Voltagers (V)</p> <ul style="list-style-type: none"> Up to 1,000V 1,000V to 11,000V 11,000V to 22,000V 22,000V to 132,000V EHV (Extra High Voltage) Transmission <p>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD</p> <table border="1"> <tr> <td>Services</td> <td>1V</td> <td>EHV</td> </tr> <tr> <td>Footpath/Unmade</td> <td>0.45m</td> <td>0.6m</td> </tr> <tr> <td>Road Crossing</td> <td>0.6m</td> <td>0.75m</td> </tr> <tr> <td>Agricultural</td> <td>0.6m</td> <td>0.9m</td> </tr> <tr> <td></td> <td>0.6m</td> <td>1.1m</td> </tr> </table>	Services	1V	EHV	Footpath/Unmade	0.45m	0.6m	Road Crossing	0.6m	0.75m	Agricultural	0.6m	0.9m		0.6m	1.1m	<p>WARNING</p> <p>There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES G56 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>
Services	1V	EHV															
Footpath/Unmade	0.45m	0.6m															
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Agricultural	0.6m	0.9m															
	0.6m	1.1m															
<p>Date Requested: 11/06/2021 Job Reference: 22378388 Site Location: 367176 075049 Requested by: Mr Rory Casey Your Scheme/Reference: Portland Beach Road</p> <p>Scale: 1:500 (When plotted at A3)</p>	<p>Dig Sites Area: Line: ---</p> <p>0 50m</p> <p>Based upon the Ordnance Survey map with the sanction of the Controller of the Stationery Office Crown Copyright Reserved. This copy has been made by or with the authority of Scottish and Southern Energy Power Distribution Ltd. Pursuant to section 47 of the Copyright, Designs and Patents Act 1988 ('The Act'). Unless the Act provides a relevant exception to copyright the copy must not be copied without prior permission of the copyright owner. Plans generated by DigSAFE Pro™ software provided by LinesearchbeforeUdig.</p>																



11

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Date Requested: 11/06/2021
Job Reference: 22379388
Site Location: 367176 075049
Requested by: Mr Rory Casey
Your Scheme/Reference: Portland Beach Road

Scale: 1:500 (When plotted at A3)

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Voltagers (V)
 LV (Low Voltage) and Services: Up to 1,000V
 HV (Extra High Voltage): 22,000V to 132,000V
 Transmission: 275,000V and 400,000V

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD

Services	LV	HV	EHV
Footpath/Unmade	0.6m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m
Agricultural	0.6m	0.6m	1.1m

WARNING

There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.

WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Legend

- Service Cable
- LV (Low Voltage)
- 22-132kV
- 275kV
- 33kV
- 100kV
- 132kV
- 400kV
- 725kV
- 1000kV
- EHV (Extra High Voltage)
- Power Cable

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Extra High Voltage cables in vicinity

Line: ---
Area: ---
Dig Sites: ---

Legend

- Watercourse Structure (Hatched)
- Peak Existing Location
- Peak Structure Existing Location - Single
- Peak Structure Existing Location - M
- Dart Route
- Cross Section Route

Scottish & Southern Electricity Networks

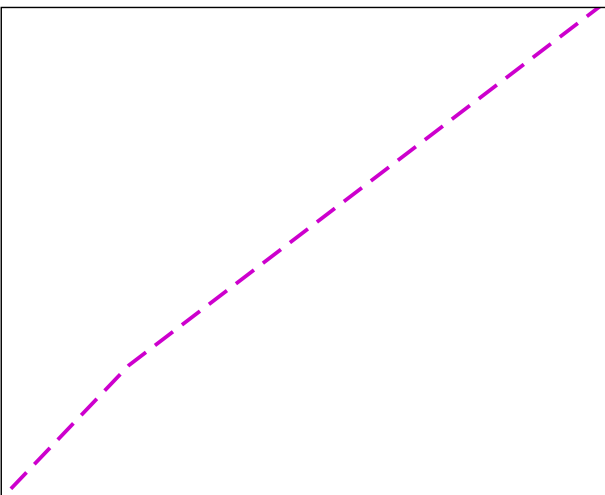
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 200 Dunkeld Road, Perth, PH1 3AQ
 Registered in Scotland No. SC213459

If you're unsure & need to seek advice before commencing excavations please contact:
 General Enquiries: 0800 048 3516
 Subject to revision – Master held by SSE in Asset Data Team:
assetdata@scsn.co.uk
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<p>0 50m</p>	<p>Dig Sites Area: Line: </p>	<p>WARNING There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>
<p>Date Requested: 11/06/2021 Job Reference: 22379388 Site Location: 367176 075049 Requested by: Mr Rory Casey Your Scheme/Reference: Portland Beach Road</p>	<p>Volages (V) LV (Low Voltage) and Services Up to 1,000V LV (Extra High Voltage) 22,000V to 132,000V Transmission 275,000V and 400,000V</p>	<p>Legend Service Cables LV (Low Voltage) and Services LV (Extra High Voltage) Transmission Footpath/Junction Road Crossing Agricultural</p>
<p>Scale: 1:500 (When plotted at A3)</p>	<p>Normal Depth to the Top of the Cable when Laid LV 0.6m IV 0.6m HV 0.75m 275kV 1.1m</p>	<p>British Standards (Harbour) Pole, Existing Location Pole Structure, Existing Location - Single Pole Structure, Existing Location - H Duct Route Cross Section Route</p>
<p>Extra High Voltage cables in vicinity</p>		
		<p>Scottish and Southern Energy Power Distribution Ltd. Registered Office: Inveralmond House, 200 Dunkeld Road, Perth, PH1 3AQ Registered in Scotland No. SC213459 General Enquiries: 0800 048 3516 Subject to revision – Master held by SSE in Asset Data Team: assetdata@scsn.co.uk 01256 337 294</p>

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13

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0 50 m

Dig Sites Area: Line: ---

Extra High Voltage cables in vicinity

Date Requested: 11/06/2021
Job Reference: 22378388
Site Location: 367176 075049
Requested by:
Mr Rory Casey
Your Scheme/Reference: Portland
Beach Road

WARNING
There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.
WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES G56 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

LV (Low Voltage) and Services	Up to 1,000V	0.6m	0.6m
Medium Voltage	1,100V to 17.5kV	0.6m	0.9m
EHV (Extra High Voltage)	22,000V to 525,000V	0.6m	0.9m
Transmission	275,000V and 400,000V	0.6m	0.9m

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD

Services	LV	0.6m	0.6m
Footpath/Unmade	IV	0.6m	0.75m
Road Crossing	IV	0.6m	0.75m
Agricultural	IV	0.6m	0.75m
	EHV	0.6m	0.9m
	EHV	0.6m	0.9m
	EHV	0.6m	1.1m

Legend

Service Cables

- 1V Mains
- 2-23kV
- 33kV
- 275kV
- 33kV
- 100kV
- 175kV
- 275kV
- 400kV
- EHV (Extra High Voltage)
- Transmission
- Footpath/Unmade
- Road Crossing
- Agricultural

Structures (Standard)

- Peak Existing Location
- Peak to occur Existing Location - Single
- Peak Structure Existing Location - H
- Dark route
- Cross Section Route



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0 50m

Dig Sites Area: --- Line: ---

Extra High Voltage cables in vicinity

Date Requested: 11/06/2021
 Job Reference: 22379388
 Site Location: 367176 075049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference: Portland
 Beach Road

WARNING
 There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.
 WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Voltages (V)	
LV (Low Voltage) and Services	Up to 1,000V
Medium Voltage	1,100V to 17,500V
EHV (Extra High Voltage) Transmission	22,000V to 132,000V
	275,000V and 400,000V
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAY	
Footpath/Unmade	0.45m
Road Crossing	0.6m
Agricultural	0.6m
Services	0.6m
IV	0.6m
EHV	0.8m
	0.9m
	0.75m
	1.1m
	1.1m

Legend

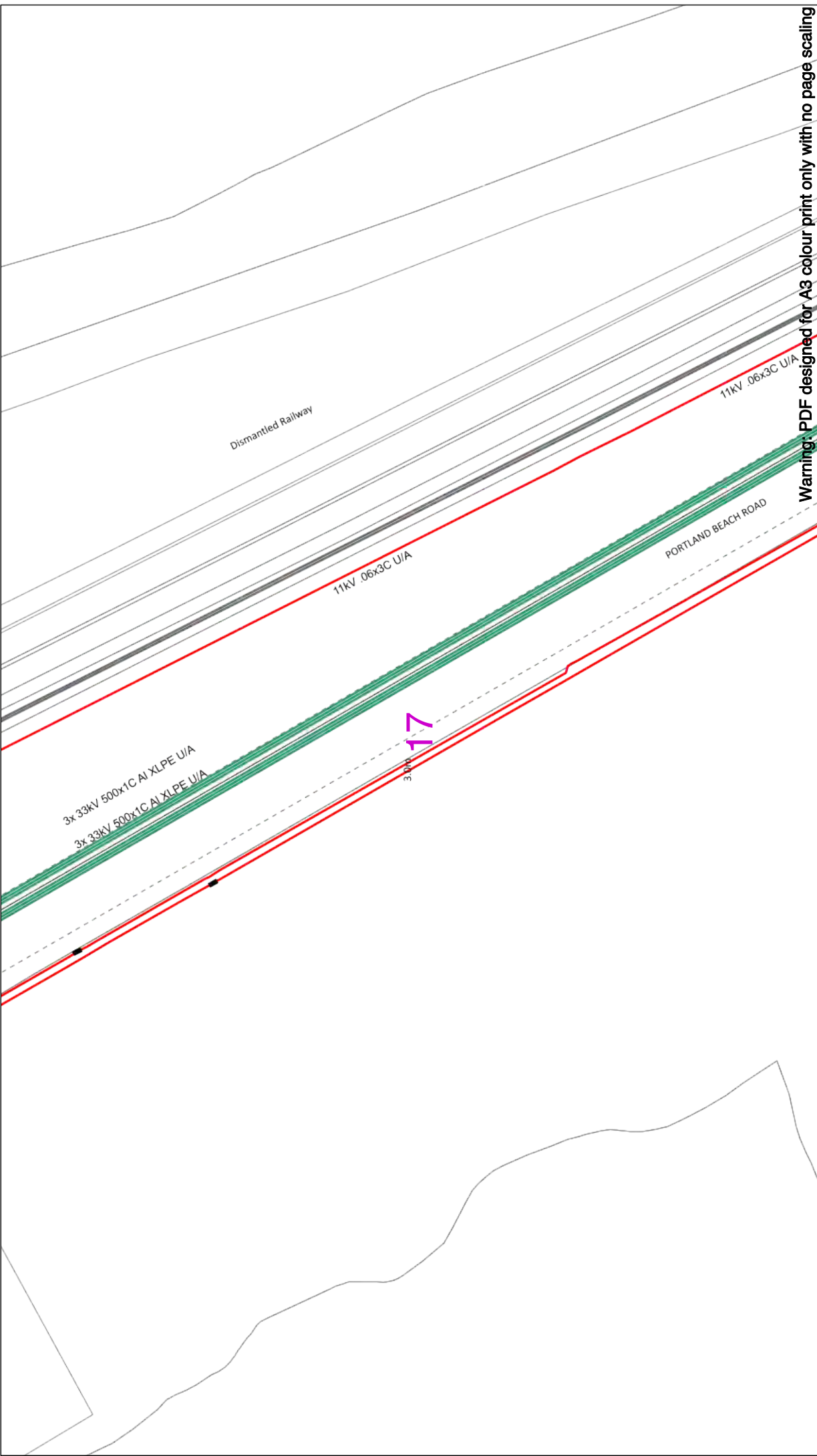
- Service Cables
- 1V Mains
- 2-23kV
- 33kV
- 275kV
- 33kV
- 100kV
- 175kV
- 400kV
- EHV Cables
- EHV Cables

Structures (Marked)

- Peak Existing Location
- Peak to secure Existing Location - Single
- Peak Structure Existing Location - H
- Dark Route
- Criss Section Route



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Date Requested: 11/06/2021
Job Reference: 22379388
Site Location: 367176 075049
Requested by: Mr Rory Casey
Your Scheme/Reference: Portland Beach Road

Scale: 1:500 (When plotted at A3)

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Dig Sites **Area:** **Line:** **---**

50m

WARNING
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 WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Voltages (V)		NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD	
LV (Low Voltage) and Services	Up to 1,000V	Services	IV
MV (Medium Voltage)	1,100V to 33,000V	Footpath/Unmade	0.45m
HV (Extra High Voltage) Transmission	33,000V to 400,000V	Road Crossing	0.6m
		Agricultural	0.75m
			1.1m
			1.5m

Legend

Service Cable	Structure	Notes
1-23kV	Point to Structure, Existing Location - Single	
1-23kV	Point to Structure, Existing Location - H	
23kV	Dark Route	
23kV	Cross Section Route	

Geotechnical Structures (Hatched)


- Point to Structure, Existing Location - Single
- Point to Structure, Existing Location - H
- Dark Route
- Cross Section Route

Scottish & Southern Electricity Networks


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0 50m



Dig Sites Area: Line: ---

WARNING
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 WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Voltagers (V)		NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD	
Up to 1,000V	0.6m	IV	0.6m
1,000V to 11,000V	0.6m	11kV	0.9m
11,000V to 22,000V	0.6m	22kV	0.9m
22,000V to 132,000V	0.6m	132kV	0.9m
132,000V to 400,000V	0.6m	400kV	0.9m
400,000V to 800,000V	0.6m	800kV	0.9m
800,000V to 1,100,000V	0.6m	1,100kV	0.9m
1,100,000V to 1,500,000V	0.6m	1,500kV	0.9m
1,500,000V to 2,200,000V	0.6m	2,200kV	0.9m
2,200,000V to 3,300,000V	0.6m	3,300kV	0.9m
3,300,000V to 4,400,000V	0.6m	4,400kV	0.9m
4,400,000V to 5,500,000V	0.6m	5,500kV	0.9m
5,500,000V to 6,600,000V	0.6m	6,600kV	0.9m
6,600,000V to 7,700,000V	0.6m	7,700kV	0.9m
7,700,000V to 8,800,000V	0.6m	8,800kV	0.9m
8,800,000V to 9,900,000V	0.6m	9,900kV	0.9m
9,900,000V to 11,000,000V	0.6m	11,000kV	0.9m
11,000,000V to 12,100,000V	0.6m	12,100kV	0.9m
12,100,000V to 13,200,000V	0.6m	13,200kV	0.9m
13,200,000V to 14,300,000V	0.6m	14,300kV	0.9m
14,300,000V to 15,400,000V	0.6m	15,400kV	0.9m
15,400,000V to 16,500,000V	0.6m	16,500kV	0.9m
16,500,000V to 17,600,000V	0.6m	17,600kV	0.9m
17,600,000V to 18,700,000V	0.6m	18,700kV	0.9m
18,700,000V to 19,800,000V	0.6m	19,800kV	0.9m
19,800,000V to 20,900,000V	0.6m	20,900kV	0.9m
20,900,000V to 22,000,000V	0.6m	22,000kV	0.9m
22,000,000V to 23,100,000V	0.6m	23,100kV	0.9m
23,100,000V to 24,200,000V	0.6m	24,200kV	0.9m
24,200,000V to 25,300,000V	0.6m	25,300kV	0.9m
25,300,000V to 26,400,000V	0.6m	26,400kV	0.9m
26,400,000V to 27,500,000V	0.6m	27,500kV	0.9m
27,500,000V to 28,600,000V	0.6m	28,600kV	0.9m
28,600,000V to 29,700,000V	0.6m	29,700kV	0.9m
29,700,000V to 30,800,000V	0.6m	30,800kV	0.9m
30,800,000V to 31,900,000V	0.6m	31,900kV	0.9m
31,900,000V to 33,000,000V	0.6m	33,000kV	0.9m
33,000,000V to 34,100,000V	0.6m	34,100kV	0.9m
34,100,000V to 35,200,000V	0.6m	35,200kV	0.9m
35,200,000V to 36,300,000V	0.6m	36,300kV	0.9m
36,300,000V to 37,400,000V	0.6m	37,400kV	0.9m
37,400,000V to 38,500,000V	0.6m	38,500kV	0.9m
38,500,000V to 39,600,000V	0.6m	39,600kV	0.9m
39,600,000V to 40,700,000V	0.6m	40,700kV	0.9m
40,700,000V to 41,800,000V	0.6m	41,800kV	0.9m
41,800,000V to 42,900,000V	0.6m	42,900kV	0.9m
42,900,000V to 44,000,000V	0.6m	44,000kV	0.9m
44,000,000V to 45,100,000V	0.6m	45,100kV	0.9m
45,100,000V to 46,200,000V	0.6m	46,200kV	0.9m
46,200,000V to 47,300,000V	0.6m	47,300kV	0.9m
47,300,000V to 48,400,000V	0.6m	48,400kV	0.9m
48,400,000V to 49,500,000V	0.6m	49,500kV	0.9m
49,500,000V to 50,600,000V	0.6m	50,600kV	0.9m
50,600,000V to 51,700,000V	0.6m	51,700kV	0.9m
51,700,000V to 52,800,000V	0.6m	52,800kV	0.9m
52,800,000V to 53,900,000V	0.6m	53,900kV	0.9m
53,900,000V to 55,000,000V	0.6m	55,000kV	0.9m
55,000,000V to 56,100,000V	0.6m	56,100kV	0.9m
56,100,000V to 57,200,000V	0.6m	57,200kV	0.9m
57,200,000V to 58,300,000V	0.6m	58,300kV	0.9m
58,300,000V to 59,400,000V	0.6m	59,400kV	0.9m
59,400,000V to 60,500,000V	0.6m	60,500kV	0.9m
60,500,000V to 61,600,000V	0.6m	61,600kV	0.9m
61,600,000V to 62,700,000V	0.6m	62,700kV	0.9m
62,700,000V to 63,800,000V	0.6m	63,800kV	0.9m
63,800,000V to 64,900,000V	0.6m	64,900kV	0.9m
64,900,000V to 66,000,000V	0.6m	66,000kV	0.9m
66,000,000V to 67,100,000V	0.6m	67,100kV	0.9m
67,100,000V to 68,200,000V	0.6m	68,200kV	0.9m
68,200,000V to 69,300,000V	0.6m	69,300kV	0.9m
69,300,000V to 70,400,000V	0.6m	70,400kV	0.9m
70,400,000V to 71,500,000V	0.6m	71,500kV	0.9m
71,500,000V to 72,600,000V	0.6m	72,600kV	0.9m
72,600,000V to 73,700,000V	0.6m	73,700kV	0.9m
73,700,000V to 74,800,000V	0.6m	74,800kV	0.9m
74,800,000V to 75,900,000V	0.6m	75,900kV	0.9m
75,900,000V to 77,000,000V	0.6m	77,000kV	0.9m
77,000,000V to 78,100,000V	0.6m	78,100kV	0.9m
78,100,000V to 79,200,000V	0.6m	79,200kV	0.9m
79,200,000V to 80,300,000V	0.6m	80,300kV	0.9m
80,300,000V to 81,400,000V	0.6m	81,400kV	0.9m
81,400,000V to 82,500,000V	0.6m	82,500kV	0.9m
82,500,000V to 83,600,000V	0.6m	83,600kV	0.9m
83,600,000V to 84,700,000V	0.6m	84,700kV	0.9m
84,700,000V to 85,800,000V	0.6m	85,800kV	0.9m
85,800,000V to 86,900,000V	0.6m	86,900kV	0.9m
86,900,000V to 88,000,000V	0.6m	88,000kV	0.9m
88,000,000V to 89,100,000V	0.6m	89,100kV	0.9m
89,100,000V to 90,200,000V	0.6m	90,200kV	0.9m
90,200,000V to 91,300,000V	0.6m	91,300kV	0.9m
91,300,000V to 92,400,000V	0.6m	92,400kV	0.9m
92,400,000V to 93,500,000V	0.6m	93,500kV	0.9m
93,500,000V to 94,600,000V	0.6m	94,600kV	0.9m
94,600,000V to 95,700,000V	0.6m	95,700kV	0.9m
95,700,000V to 96,800,000V	0.6m	96,800kV	0.9m
96,800,000V to 97,900,000V	0.6m	97,900kV	0.9m
97,900,000V to 99,000,000V	0.6m	99,000kV	0.9m
99,000,000V to 100,100,000V	0.6m	100,100kV	0.9m
100,100,000V to 101,200,000V	0.6m	101,200kV	0.9m
101,200,000V to 102,300,000V	0.6m	102,300kV	0.9m
102,300,000V to 103,400,000V	0.6m	103,400kV	0.9m
103,400,000V to 104,500,000V	0.6m	104,500kV	0.9m
104,500,000V to 105,600,000V	0.6m	105,600kV	0.9m
105,600,000V to 106,700,000V	0.6m	106,700kV	0.9m
106,700,000V to 107,800,000V	0.6m	107,800kV	0.9m
107,800,000V to 108,900,000V	0.6m	108,900kV	0.9m
108,900,000V to 110,000,000V	0.6m	110,000kV	0.9m
110,000,000V to 111,100,000V	0.6m	111,100kV	0.9m
111,100,000V to 112,200,000V	0.6m	112,200kV	0.9m
112,200,000V to 113,300,000V	0.6m	113,300kV	0.9m
113,300,000V to 114,400,000V	0.6m	114,400kV	0.9m
114,400,000V to 115,500,000V	0.6m	115,500kV	0.9m
115,500,000V to 116,600,000V	0.6m	116,600kV	0.9m
116,600,000V to 117,700,000V	0.6m	117,700kV	0.9m
117,700,000V to 118,800,000V	0.6m	118,800kV	0.9m
118,800,000V to 119,900,000V	0.6m	119,900kV	0.9m
119,900,000V to 121,000,000V	0.6m	121,000kV	0.9m
121,000,000V to 122,100,000V	0.6m	122,100kV	0.9m
122,100,000V to 123,200,000V	0.6m	123,200kV	0.9m
123,200,000V to 124,300,000V	0.6m	124,300kV	0.9m
124,300,000V to 125,400,000V	0.6m	125,400kV	0.9m
125,400,000V to 126,500,000V	0.6m	126,500kV	0.9m
126,500,000V to 127,600,000V	0.6m	127,600kV	0.9m
127,600,000V to 128,700,000V	0.6m	128,700kV	0.9m
128,700,000V to 129,800,000V	0.6m	129,800kV	0.9m
129,800,000V to 130,900,000V	0.6m	130,900kV	0.9m
130,900,000V to 132,000,000V	0.6m	132,000kV	0.9m
132,000,000V to 133,100,000V	0.6m	133,100kV	0.9m
133,100,000V to 134,200,000V	0.6m	134,200kV	0.9m
134,200,000V to 135,300,000V	0.6m	135,300kV	0.9m
135,300,000V to 136,400,000V	0.6m	136,400kV	0.9m
136,400,000V to 137,500,000V	0.6m	137,500kV	0.9m
137,500,000V to 138,600,000V	0.6m	138,600kV	0.9m
138,600,000V to 139,700,000V	0.6m	139,700kV	0.9m
139,700,000V to 140,800,000V	0.6m	140,800kV	0.9m
140,800,000V to 141,900,000V	0.6m	141,900kV	0.9m
141,900,000V to 143,000,000V	0.6m	143,000kV	0.9m
143,000,000V to 144,100,000V	0.6m	144,100kV	0.9m
144,100,000V to 145,200,000V	0.6m	145,200kV	0.9m
145,200,000V to 146,300,000V	0.6m	146,300kV	0.9m
146,300,000V to 147,400,000V	0.6m	147,400kV	0.9m
147,400,000V to 148,500,000V	0.6m	148,500kV	0.9m
148,500,000V to 149,600,000V	0.6m	149,600kV	0.9m
149,600,000V to 150,700,000V	0.6m	150,700kV	0.9m
150,700,000V to 151,800,000V	0.6m	151,800kV	0.9m
151,800,000V to 152,900,000V	0.6m	152,900kV	0.9m
152,900,000V to 154,000,000V	0.6m	154,000kV	0.9m
154,000,000V to 155,100,000V	0.6m	155,100kV	0.9m
155,100,000V to 156,200,000V	0.6m	156,200kV	0.9m
156,200,000V to 157,300,000V	0.6m	157,300kV	0.9m
157,300,000V to 158,400,000V	0.6m	158,400kV	0.9m
158,400,000V to 159,500,000V	0.6m	159,500kV	0.9m
159,500,000V to 160,600,000V	0.6m	160,600kV	0.9m
160,600,000V to 161,700,000V	0.6m	161,700kV	0.9m
161,700,000V to 162,800,000V	0.6m	162,800kV	0.9m
162,800,000V to 163,900,000V	0.6m	163,900kV	0.9m
163,900,000V to 165,000,000V	0.6m	165,000kV	0.9m
165,000,000V to 166,100,000V	0.6m	166,100kV	0.9m
166,100,000V to 167,200,000V	0.6m	167,200kV	0.9m
167,200,000V to 168,300,000V	0.6m	168,300kV	0.9m
168,300,000V to 169,400,000V	0.6m	169,400kV	0.9m
169,400,000V to 170,500,000V	0.6m	170,500kV	0.9m
170,500,000V to 171,600,000V	0.6m	171,600kV	0.9m
171,600,000V to 172,700,000V	0.6m	172,700kV	0.9m
172,700,000V to 173,800,000V	0.6m	173,800kV	0.9m
173,800,000V to 174,900,000V	0.6m	174,900kV	0.9m
174,900,000V to 176,000,0			

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0 50m

Dig Sites Area: Line: ---

Extra High Voltage cables in vicinity

Date Requested: 11/06/2021
Job Reference: 22379388
Site Location: 367176 075049
Requested by:
Mr Rory Casey
Your Scheme/Reference: Portland
Beach Road

WARNING
There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.
WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES G56 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

LV (Low Voltage) and Services	Up to 1,000V	0.6m	0.6m	0.8m
Medium Voltage (MV)	1,000V to 17.5kV	0.6m	0.6m	0.9m
EHV (Extra High Voltage)	22,000V to 525,000V	0.6m	0.75m	0.9m
Transmission	275,000V and 400,000V	0.6m	0.75m	1.1m

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD

Services	LV	0.6m	0.6m	0.8m
Footpath/Unmade	0.6m	0.6m	0.75m	0.9m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	0.6m	0.6m	0.75m	0.9m

Legend

Service Cable	17.5kV	33kV	66kV	110kV	132kV	275kV	400kV	525kV
17.5kV	33kV	66kV	110kV	132kV	275kV	400kV	525kV	525kV
17.5kV	33kV	66kV	110kV	132kV	275kV	400kV	525kV	525kV
17.5kV	33kV	66kV	110kV	132kV	275kV	400kV	525kV	525kV
17.5kV	33kV	66kV	110kV	132kV	275kV	400kV	525kV	525kV

Infrastructure Structures (Marked)

- Point Existing Location
- Point to secure Existing Location - Single
- Point Structure Existing Location - H
- Dark Route
- Cross Section Route



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0 50m

Dig Sites Area: Line: ---

Extra High Voltage cables in vicinity

Date Requested: 11/06/2021
Job Reference: 22379388
Site Location: 367176 075049
Requested by:
Mr Rory Casey
Your Scheme/Reference: Portland
Beach Road

WARNING
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WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

LV (Low Voltage) and Services	Up to 1,000V	0.6m	0.8m
Medium Voltage (MV)	1,100V to 17.5kV	0.6m	0.9m
High Voltage (HV) (Extra High Voltage)	22,000V to 132,000V	0.6m	0.9m
Transmission	275,000V and 400,000V	0.6m	0.9m

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD

Footpath/Unmade	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m
Agricultural	0.6m	0.6m	0.9m

Service Cable	1V	10kV	15kV	20kV	25kV	30kV	33kV	36kV	40kV	45kV	50kV	60kV	75kV	110kV	132kV
---------------	----	------	------	------	------	------	------	------	------	------	------	------	------	-------	-------

Legend

- Service Cable
- 1V
- 10kV
- 15kV
- 20kV
- 25kV
- 30kV
- 33kV
- 36kV
- 40kV
- 45kV
- 50kV
- 60kV
- 75kV
- 110kV
- 132kV

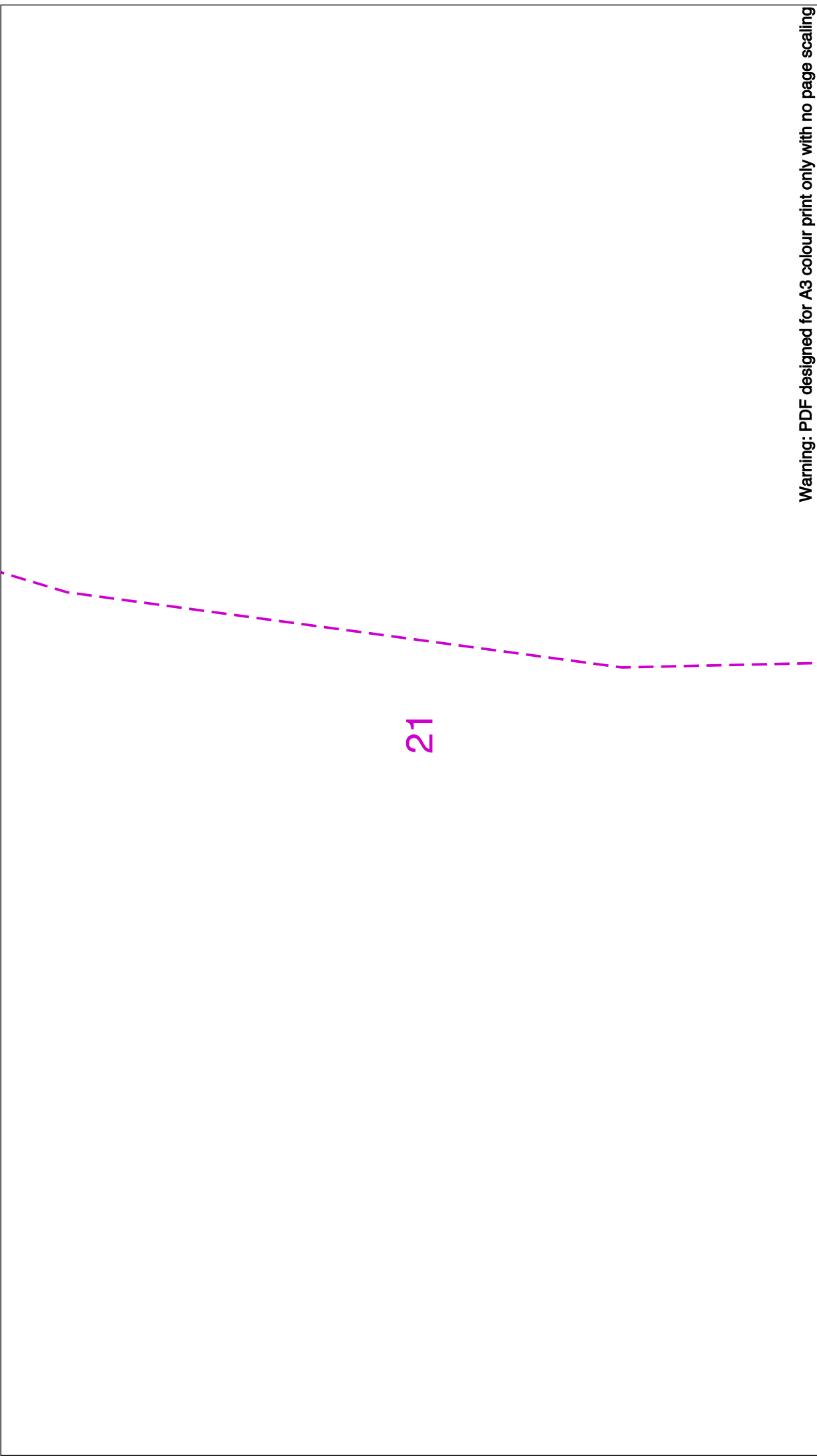
Infrastructure Structures (Detailed)

- Peak Existing Location
- Peak To be excavated Existing Location - Single
- Peak Structure Existing Location - H
- Dark Route
- Cross Section Route



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0 **50 m**

Dig Sites Area: Line:

Extra High Voltage cables in vicinity

Legend

	Service Cable
	1V Work
	2-23kV
	33kV
	72kV
	110kV
	132kV
	175kV
	275kV
	400kV
	Power Cable

Disturbance Structures (Marked)

	Mark Existing Location
	Mark Structure Existing Location
	Mark Structure Existing Location
	Dark Route
	Cross Section Route

Voltagers (V)

Up to 1,000V	1,000V
1,000V to 1,500V	1,500V
1,500V to 2,000V	2,000V
2,000V to 400,000V	400,000V
400,000V to 132,000V	132,000V
132,000V to 400,000V	400,000V

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD

Footpath/Unmade	0.6m	0.6m	0.8m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	0.6m	0.6m	0.75m	1.1m
Services	0.6m	0.6m	0.75m	1.1m

WARNING

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WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Date Requested: 11/06/2021
 Job Reference: 22379388
 Site Location: 367176 075049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference: Portland Beach Road

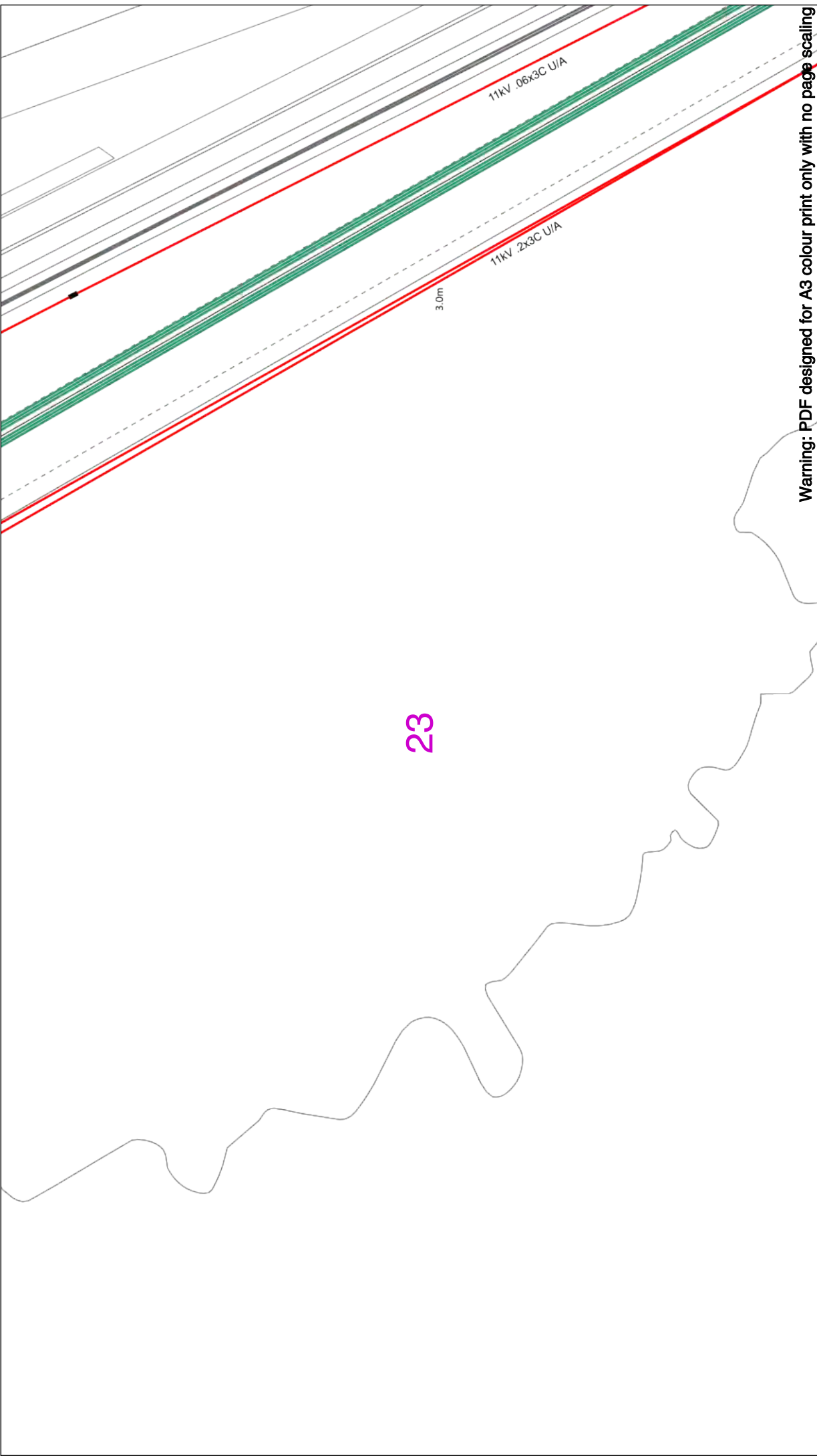
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 01256 337 294



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<p>0 50m</p> <p>Dig Sites Area: Line: ---</p>	<p>Extra High Voltage cables in vicinity</p>	<p>Legend</p> <ul style="list-style-type: none"> Service Cable 1V Mains 2-23kV 33kV 22kV 33kV 66kV 110kV 275kV 400kV 1100kV Prop Cable 	<p>Distances (Metres)</p> <ul style="list-style-type: none"> Peak Existing Location Peak To Structure Existing Location - Single Peak To Structure Existing Location - M Dist. Route Cross Section Route 	<p>Voltagers (V)</p> <ul style="list-style-type: none"> Up to 1,000V 1,000V to 11,000V 11,000V to 22,000V 22,000V to 132,000V 132,000V to 400,000V 400,000V to 1,100,000V 1,100,000V to 1,100,000V <p>NORMAL DEPTHS TO THE TOP OF THE CABLE WHEN LAY</p> <table border="1"> <tr> <td>Footpath/Unmade Road</td> <td>0.6m</td> <td>IV</td> <td>0.6m</td> <td>0.8m</td> </tr> <tr> <td>Road Crossing</td> <td>0.6m</td> <td>IV</td> <td>0.6m</td> <td>0.75m</td> </tr> <tr> <td>Agricultural</td> <td>0.6m</td> <td>IV</td> <td>0.6m</td> <td>1.1m</td> </tr> </table>	Footpath/Unmade Road	0.6m	IV	0.6m	0.8m	Road Crossing	0.6m	IV	0.6m	0.75m	Agricultural	0.6m	IV	0.6m	1.1m
Footpath/Unmade Road	0.6m	IV	0.6m	0.8m															
Road Crossing	0.6m	IV	0.6m	0.75m															
Agricultural	0.6m	IV	0.6m	1.1m															
<p>Date Requested: 11/06/2021</p> <p>Job Reference: 22379388</p> <p>Site Location: 367176 075049</p> <p>Requested by: Mr Rory Casey</p> <p>Your Scheme/Reference: Portland Beach Road</p>	<p>WARNING</p> <p>There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES G56 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>	<p>Scottish & Southern Electricity Networks</p> <p>Scottish and Southern Energy Power Distribution Ltd.</p> <p>Registered Office: Inverlorn Road, 200 Dunkeld Road, Perth, PH1 3AQ</p> <p>Registered in Scotland No. SC213459</p> <p>General Enquiries: 0800 048 3516</p> <p>If you're unsure & need to seek advice before commencing excavation please contact:</p> <p>Subject to revision – Master held by SSE in Asset Data Team: 01256 337 294</p>	<p>Scale: 1:500 (When plotted at A3)</p> <p>This copy has been made by or with the authority of Scottish and Southern Energy Power Distribution Ltd. Pursuant to section 47 of the Copyright, Designs and Patents Act 1988 ('The Act'). Unless the ACT provides a relevant exception to copyright, the copy must not be copied without prior permission of the copyright owner. Plans generated by DigSAFE Pro™ software provided by LinesearchbeforeUdig.</p>	<p>0 50m</p> <p>Dig Sites Area: Line: ---</p>															

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<p>Date Requested: 11/06/2021 Job Reference: 22379388 Site Location: 367176 075049 Requested by: Mr Rory Casey Your Scheme/Reference: Portland Beach Road</p>	<p>50 m</p> <p>Dig Sites Area: Line: ---</p> <p>WARNING There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>	<p>Voltagers (V) LV (Low Voltage) and Services Up to 1,000V MV (Medium Voltage) 1.1kV to 17.5kV HV (Extra High Voltage) 22.0kV to 132.0kV Transmission 275.0kV and 400.0kV</p> <p>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAY</p> <table border="1"> <tr><td>Services</td><td>LV</td><td>0.45m</td><td>0.6m</td><td>0.8m</td></tr> <tr><td>Footpath/Unmade</td><td>IV</td><td>0.45m</td><td>0.6m</td><td>0.8m</td></tr> <tr><td>Road Crossing</td><td>IV</td><td>0.6m</td><td>0.75m</td><td>0.9m</td></tr> <tr><td>Agricultural</td><td>IV</td><td>0.6m</td><td>0.75m</td><td>0.9m</td></tr> <tr><td></td><td>EV</td><td>0.6m</td><td>0.75m</td><td>0.9m</td></tr> <tr><td></td><td>EV</td><td>0.6m</td><td>0.75m</td><td>1.1m</td></tr> </table>	Services	LV	0.45m	0.6m	0.8m	Footpath/Unmade	IV	0.45m	0.6m	0.8m	Road Crossing	IV	0.6m	0.75m	0.9m	Agricultural	IV	0.6m	0.75m	0.9m		EV	0.6m	0.75m	0.9m		EV	0.6m	0.75m	1.1m	<p>Legend</p> <p>Service Cables 1V Mains 2-17.5kV 11kV 22kV 33kV 66kV 110kV 132kV 275kV 400kV HV/Extra HV HV/Transmission HV/Line Cables</p> <p>Underground Structures (Marked) Pole, Existing Location Pole to secure, Existing Location - Single Pole Structure, Existing Location - H Duct Route Cross Section Route</p>	<p>Extra High Voltage cables in vicinity</p> <p></p> <p></p> <p>Scottish and Southern Energy Power Distribution Ltd. Registered Office: Inveralmond House, 200 Dunkeld Road, Perth, PH1 3AQ Registered in Scotland No. SC213459</p> <p>If you're unsure & need to seek advice before commencing excavations please contact: General Enquiries: 0800 048 3516 assetdata@scsn.co.uk Subject to revision – Master held by SSE in Asset Data Team: 01256 337 294</p>
Services	LV	0.45m	0.6m	0.8m																														
Footpath/Unmade	IV	0.45m	0.6m	0.8m																														
Road Crossing	IV	0.6m	0.75m	0.9m																														
Agricultural	IV	0.6m	0.75m	0.9m																														
	EV	0.6m	0.75m	0.9m																														
	EV	0.6m	0.75m	1.1m																														
<p>Scale: 1:500 (When plotted at A3)</p> <p>BASED UPON THE ORDINANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF THE STATIONERY OFFICE CROWN COPYRIGHT RESERVED.</p> <p>This copy has been made by or with the authority of Scottish and Southern Energy Power Distribution Ltd. Pursuant to section 47 of the Copyright, Designs and Patents Act 1988 ('The Act'). Unless the ACT provides a relevant exception to copyright the copy must not be copied without prior permission of the copyright owner. Plans generated by DigSAFE Pro™ software provided by LinesearchbeforeUdig.</p>																																		

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Shingle

Mean Low Water

West Bay

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0 50 m

Dig Sites Area: --- Line: ---

Date Requested: 11/06/2021
Job Reference: 22379388
Site Location: 367176 075049
Requested by:
Mr Rory Casey
Your Scheme/Reference: Portland
Beach Road

WARNING
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Voltagers (V)

Up to 1,000V	0.6m	0.6m	0.8m
1,000V to 17,000V	0.6m	0.6m	0.9m
17,000V to 33,000V	0.6m	0.6m	0.9m
33,000V to 132,000V	0.6m	0.6m	0.9m
132,000V to 400,000V	0.6m	0.6m	0.9m
400,000V and above	0.6m	0.6m	0.9m

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAY

Services	0.5m	0.6m	0.75m	1.1m
Footpath/Unmade	0.5m	0.6m	0.75m	1.1m
Road Crossing	0.5m	0.6m	0.75m	1.1m
Agricultural	0.5m	0.6m	0.75m	1.1m

Legend

Service Cables	11kV	17kV	33kV	132kV	400kV	1100kV	1750kV	2750kV	11000kV	17500kV	27500kV	110000kV	175000kV	275000kV	1100000kV	1750000kV	2750000kV	11000000kV	17500000kV	27500000kV	110000000kV	175000000kV	275000000kV		
11kV	17kV	33kV	132kV	400kV	1100kV	1750kV	2750kV	11000kV	17500kV	27500kV	110000kV	175000kV	275000kV	1100000kV	1750000kV	2750000kV	11000000kV	17500000kV	27500000kV	110000000kV	175000000kV	275000000kV	1100000000kV	1750000000kV	2750000000kV

Overhead Structures (Standard)

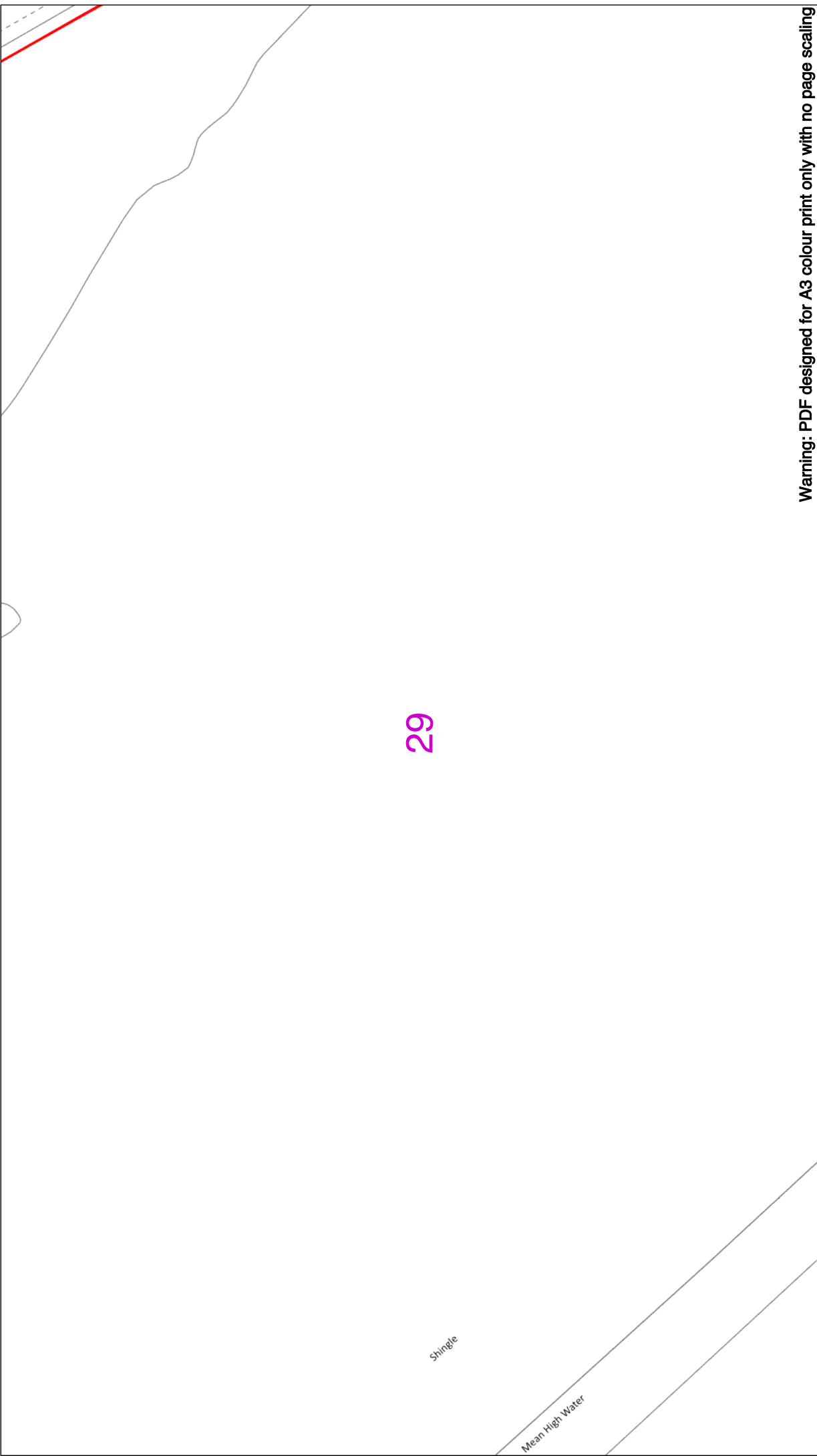
Pole, Existing Location	Dark Blue
Pole Structure, Existing Location	Light Blue
Pole Structure, Existing Location - H	Light Blue
Dark Route	Dark Blue
Cross Section Route	Dark Blue



Extra High Voltage cables in vicinity

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Date Requested: 11/06/2021
 Job Reference: 22378388
 Site Location: 367176 075049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference: Portland
 Beach Road

50 m

Dig Sites Area: Line: ---

WARNING

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Extra High Voltage cables in vicinity

Legend

Service Cables

- 1V Mains
- 2-23kV
- 33kV
- 275kV
- 33kV
- 66kV
- 110kV
- 275kV
- 400kV
- Other Cables
- Power Cables

Interlocked Structures (Marked)

- Point Existing Location
- Point to secure Existing Location - Single
- Point Structure Existing Location - H
- Duct route
- Cross Section Route

Voltagers (V)

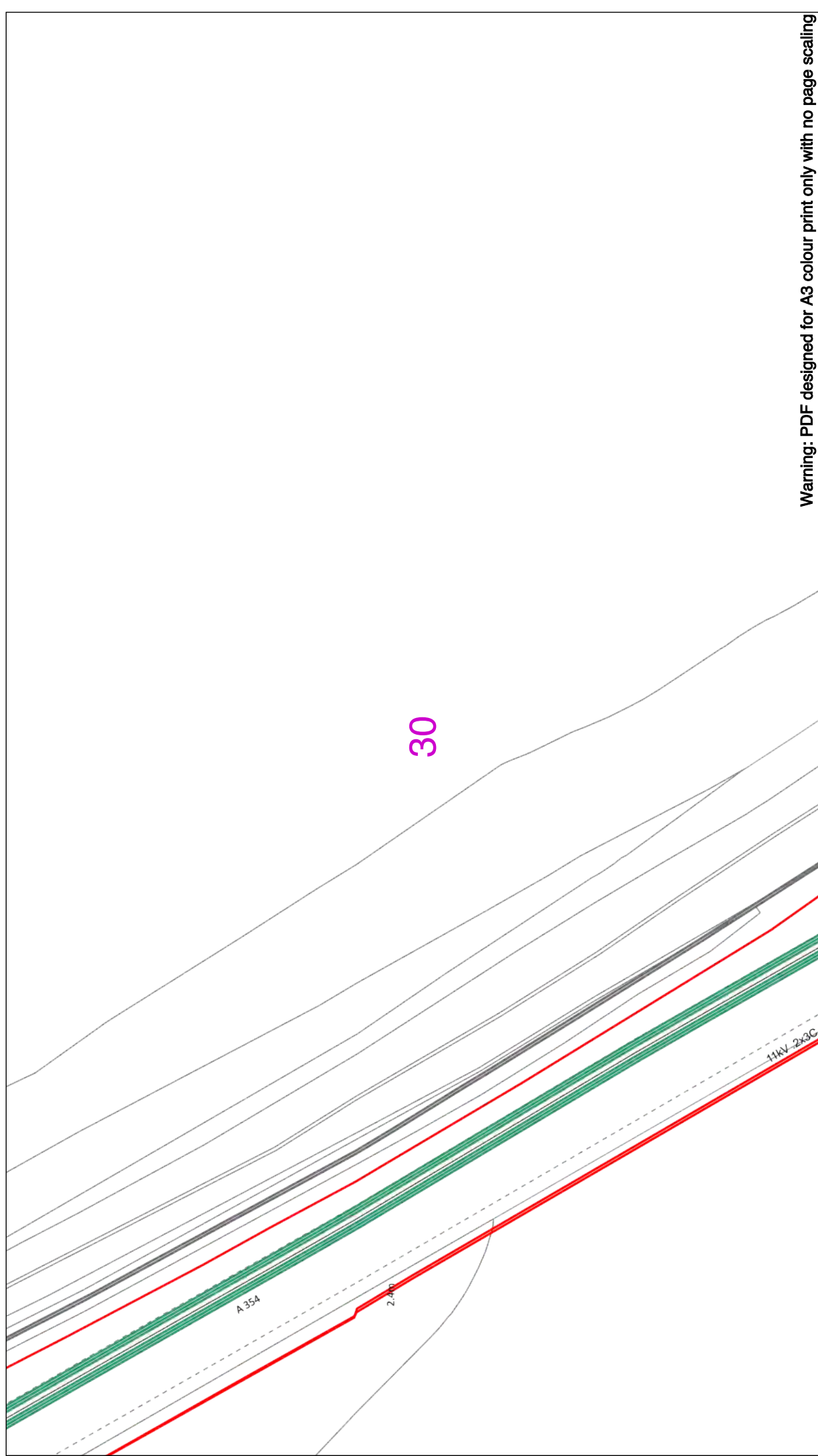
Up to 1,000V	0.6m	0.6m	0.8m
1,100V to 1,500V	0.6m	0.6m	0.9m
1,600V to 22,000V	0.6m	0.6m	0.9m
22,000V to 400,000V	0.6m	0.6m	0.9m
400,000V	0.6m	0.6m	0.9m

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN Laid

Services	1V	0.6m	0.6m	0.8m
Footpath/Unmade	0.6m	0.6m	0.75m	0.9m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	0.6m	0.6m	0.75m	0.9m

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<p>Date Requested: 11/06/2021 Job Reference: 22379388 Site Location: 367176 075049 Requested by: Mr Rory Casey Your Scheme/Reference: Portland Beach Road</p>	<p>WARNING There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>	<p>Voltagers (V) LV (Low Voltage) and Services Up to 1,000V MV (Medium Voltage) 1.1kV to 10kV HV (Extra High Voltage) 22,000V to 132,000V Transmission 275,000V and 400,000V</p> <p>NORMAL DEPTHS TO THE TOP OF THE CABLE WHEN LAD</p> <table border="1"> <tr> <th>Services</th> <th>LV</th> <th>IV</th> <th>HV</th> </tr> <tr> <td>Footpath/Junction</td> <td>0.45m</td> <td>0.6m</td> <td>0.8m</td> </tr> <tr> <td>Road Crossing</td> <td>0.5m</td> <td>0.6m</td> <td>0.75m</td> </tr> <tr> <td>Agricultural</td> <td>0.5m</td> <td>0.6m</td> <td>0.9m</td> </tr> <tr> <td></td> <td></td> <td></td> <td>1.1m</td> </tr> </table>	Services	LV	IV	HV	Footpath/Junction	0.45m	0.6m	0.8m	Road Crossing	0.5m	0.6m	0.75m	Agricultural	0.5m	0.6m	0.9m				1.1m	<p>Legend</p> <ul style="list-style-type: none"> Service Cable 1V Mains 2-10kV 11kV 22kV 33kV 66kV 110kV 275kV 400kV Overhead Prop Cable <p>Infrastructure Structures (Marked)</p> <ul style="list-style-type: none"> Peak Existing Location Peak to occur, Existing Location - Single Peak Structure, Existing Location - H Duct Route Cross Section Route
Services	LV	IV	HV																				
Footpath/Junction	0.45m	0.6m	0.8m																				
Road Crossing	0.5m	0.6m	0.75m																				
Agricultural	0.5m	0.6m	0.9m																				
			1.1m																				
<p>0 50m</p> <p>Dig Sites Area: --- Line: ---</p>		<p>Extra High Voltage cables in vicinity</p>																					
<p>Date Requested: 11/06/2021 Job Reference: 22379388 Site Location: 367176 075049 Requested by: Mr Rory Casey Your Scheme/Reference: Portland Beach Road</p>		<p>Scottish & Southern Electricity Networks</p> <p>Scottish and Southern Energy Power Distribution Ltd. Registered Office: Inverchonnard House, 200 Dunkeld Road, Perth, PH1 3AQ Registered in Scotland No. SC213459</p> <p>If you're unsure & need to seek advice before commencing excavations please contact: General Enquiries: 0800 048 3516 Subject to revision – Master held by SSE in Asset Data Team: assetdata@scsn.co.uk 01256 337 294</p>																					
<p>Scale: 1:500 (When plotted at A3)</p> <p>THIS COPY HAS BEEN MADE BY OR WITH THE AUTHORITY OF SCOTTISH AND SOUTHERN ENERGY POWER DISTRIBUTION LTD. PURSUANT TO SECTION 47 OF THE COPYRIGHT, DESIGNS AND PATENTS ACT 1988 ('THE ACT'). UNLESS THE ACT PROVIDES A RELEVANT EXCEPTION TO COPYRIGHT, THE COPY MUST NOT BE COPIED WITHOUT PRIOR PERMISSION OF THE COPYRIGHT OWNER. PLANS GENERATED BY DIGSAFE PRO™ SOFTWARE PROVIDED BY LINESearchbeforeUdig.</p>																							

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<p>0  50m</p>	<p>Dig Sites Area:  Line: </p>	<p>WARNING There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>																								
<p>Date Requested: 11/06/2021 Job Reference: 22379388 Site Location: 367176 075049 Requested by: Mr Rory Casey Your Scheme/Reference: Portland Beach Road</p>	<p>Legend</p> <p>Service Cables: 1V Mains 2-23kV 33kV 275kV 33kV 66kV 110kV 275kV 400kV Fibre Optic Post Cable</p> <p>Infrastructure Symbols (Detailed) Pole, Existing Location Pole to secure, Existing Location - Single Pole Structure, Existing Location - H Duct Route Cross Section Route</p> <p>Volages (V) LV (Low Voltage) and Services Up to 1,000V 1,000V to 1,000V 22,000V to 132,000V HV (Extra High Voltage) Transmission 275,000V and 400,000V</p> <p>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD</p> <table border="1"> <tr> <td>Footpath/Unmade</td> <td>0.45m</td> <td>IV</td> <td>0.6m</td> <td>61V</td> </tr> <tr> <td>Road Crossing</td> <td>0.6m</td> <td>IV</td> <td>0.6m</td> <td>0.8m</td> </tr> <tr> <td>Agricultural</td> <td>0.6m</td> <td>IV</td> <td>0.6m</td> <td>0.9m</td> </tr> <tr> <td></td> <td>0.6m</td> <td>IV</td> <td>0.6m</td> <td>0.9m</td> </tr> <tr> <td></td> <td>0.6m</td> <td>IV</td> <td>0.6m</td> <td>1.1m</td> </tr> </table>	Footpath/Unmade	0.45m	IV	0.6m	61V	Road Crossing	0.6m	IV	0.6m	0.8m	Agricultural	0.6m	IV	0.6m	0.9m		0.6m	IV	0.6m	0.9m		0.6m	IV	0.6m	1.1m
Footpath/Unmade	0.45m	IV	0.6m	61V																						
Road Crossing	0.6m	IV	0.6m	0.8m																						
Agricultural	0.6m	IV	0.6m	0.9m																						
	0.6m	IV	0.6m	0.9m																						
	0.6m	IV	0.6m	1.1m																						
<p>Extra High Voltage cables in vicinity</p>		<p>Scottish & Southern Electricity Networks</p> <p>Scottish and Southern Energy Power Distribution Ltd. Registered Office: Inverchonnard House, 200 Dunkeld Road, Perth, PH1 3AQ Registered in Scotland No. SC213459</p> <p>If you're unsure & need to seek advice before commencing excavations please contact: General Enquiries: 0800 048 3516 Subject to revision – Master held by SSE in Asset Data Team: assetdata@scsn.co.uk 01256 337 294</p>																								

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0 50m

Dig Sites Area: Line: ---

Extra High Voltage cables in vicinity

Date Requested: 11/06/2021
Job Reference: 22379388
Site Location: 367176 075049
Requested by:
Mr Rory Casey
Your Scheme/Reference: Portland
Beach Road

WARNING
There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.
WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

LV (Low Voltage) and Services Up to 1,000V	0.6m	0.6m	0.8m
LV (Extra High Voltage)	0.6m	0.6m	0.9m
Transmission	0.6m	0.6m	0.9m
NORMAL DEPTHS TO THE TOP OF THE CABLE WHEN LAD			
Services	LV	EV	EHV
Footpath/Unmade	0.6m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m
Agricultural	0.6m	0.6m	1.1m

Service Cable	10kV	17.5kV	25kV	33kV	66kV	110kV	132kV	275kV	400kV	EHV	
Point to secure, Existing location - Single	[Symbol]										
Point to secure, Existing location - M	[Symbol]										
Duct route	[Symbol]										
Cross Section Route	[Symbol]										

Substation Structure (Detailed)	[Symbol]										
Point to secure, Existing location - Single	[Symbol]										
Point to secure, Existing location - M	[Symbol]										
Duct route	[Symbol]										
Cross Section Route	[Symbol]										

Legend	[Symbol]										
Service Cable	[Symbol]										
10kV	[Symbol]										
17.5kV	[Symbol]										
25kV	[Symbol]										
33kV	[Symbol]										
66kV	[Symbol]										
110kV	[Symbol]										
132kV	[Symbol]										
275kV	[Symbol]										
400kV	[Symbol]										
EHV	[Symbol]										
Point Cable	[Symbol]										



Scottish & Southern Electricity Networks
Scottish and Southern Energy Power Distribution Ltd.
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0 **50 m**

Dig Sites Area: Line:

Extra High Voltage cables in vicinity

WARNING
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 WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Legend

Service Cable	11kV	20kV	33kV	66kV	110kV	132kV	275kV	400kV	High Voltage
11kV	20kV	33kV	66kV	110kV	132kV	275kV	400kV	High Voltage	Power Cable

Interlocked Structures (Hazard)

- Pole, Existing Location
- Pole Structure, Existing Location - Single
- Pole Structure, Existing Location - H
- Duct Route
- Cross Section Route

Voltagers (V)

Up to 1,000V	1,000V	11kV	20kV	33kV	66kV	110kV	132kV	275kV	400kV
Up to 1,000V	1,000V	11kV	20kV	33kV	66kV	110kV	132kV	275kV	400kV

NORMAL DEPTHS TO THE TOP OF THE CABLE WHEN LAD

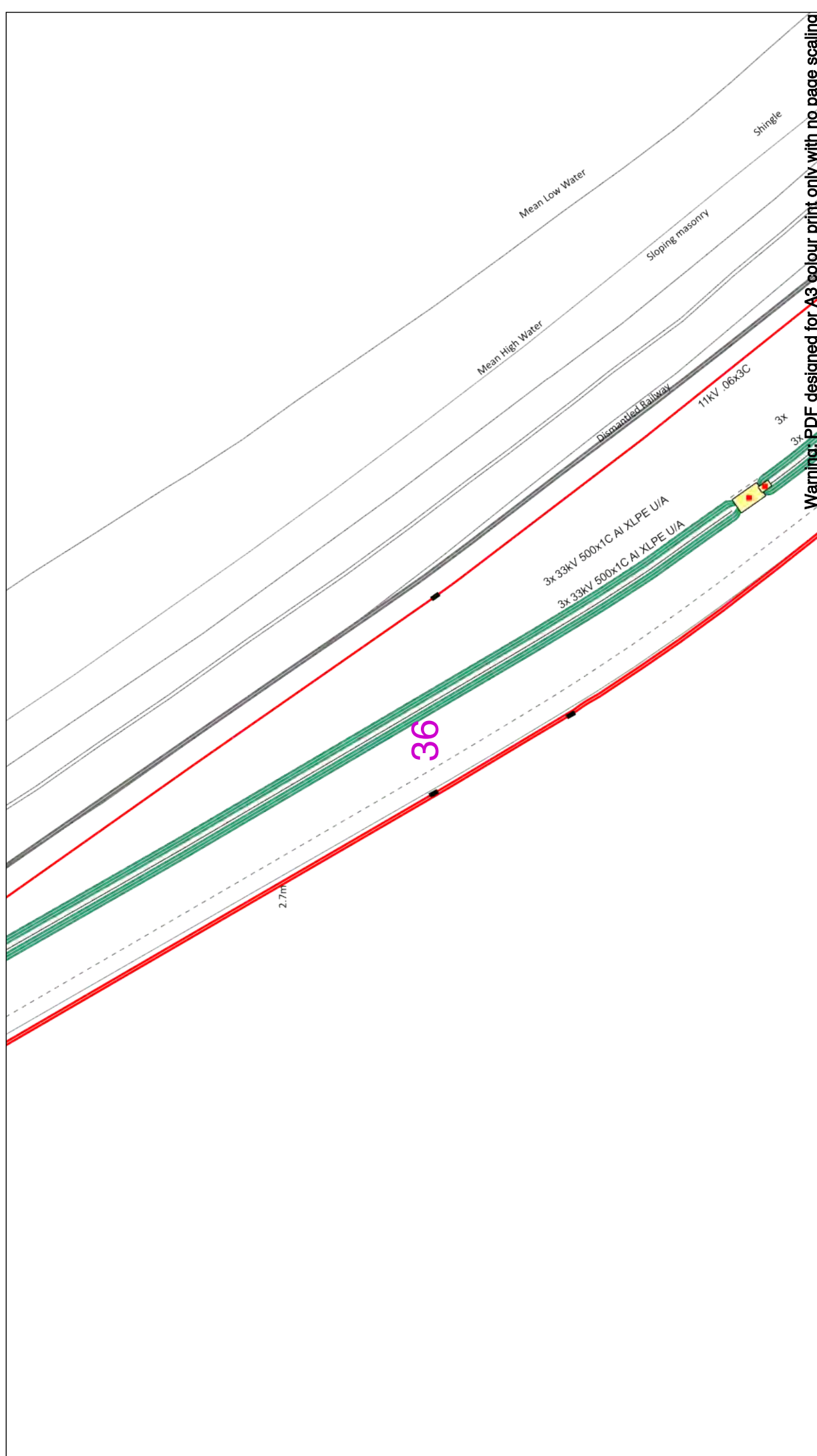
Footpath/Unmade	0.45m	0.6m	0.6m	0.8m	0.9m	1.1m	1.1m	1.1m	1.1m
Road Crossing	0.6m	0.6m	0.6m	0.75m	0.9m	1.1m	1.1m	1.1m	1.1m
Agricultural	0.6m	0.6m	0.6m	0.75m	0.9m	1.1m	1.1m	1.1m	1.1m

Scale: 1:500 (When plotted at A3)

Date Requested: 11/06/2021
Job Reference: 22379388
Site Location: 367176 075049
Requested by: Mr Rory Casey
Your Scheme/Reference: Portland Beach Road

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Scottish & Southern Electricity Networks



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0 **50m**

Dig Sites Area: Line:

Extra High Voltage cables in vicinity

WARNING

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WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Voltagex (V)

Up to 1,000V	0.6m	0.6m	0.8m
Services	0.6m	0.6m	0.9m
Transmission	0.6m	0.6m	0.75m
275,000V and 400,000V	0.6m	0.6m	1.1m






NORMAL DEPTHS TO THE TOP OF THE CABLE WHEN LAD

Footpath/Unmade	0.6m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m
Agricultural	0.6m	0.6m	1.1m

Legend

Service Cable	Up to 1,000V	0.6m	0.6m	0.8m
11kV	275,000V and 400,000V	0.6m	0.6m	0.75m
22kV	275,000V and 400,000V	0.6m	0.6m	0.75m
33kV	275,000V and 400,000V	0.6m	0.6m	0.75m
110kV	275,000V and 400,000V	0.6m	0.6m	0.75m
220kV	275,000V and 400,000V	0.6m	0.6m	0.75m
400kV	275,000V and 400,000V	0.6m	0.6m	0.75m
750kV	275,000V and 400,000V	0.6m	0.6m	0.75m
1,100kV	275,000V and 400,000V	0.6m	0.6m	0.75m
1,380kV	275,000V and 400,000V	0.6m	0.6m	0.75m
1,750kV	275,000V and 400,000V	0.6m	0.6m	0.75m
2,520kV	275,000V and 400,000V	0.6m	0.6m	0.75m
3,300kV	275,000V and 400,000V	0.6m	0.6m	0.75m
4,050kV	275,000V and 400,000V	0.6m	0.6m	0.75m
5,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
6,300kV	275,000V and 400,000V	0.6m	0.6m	0.75m
8,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
10,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
12,750kV	275,000V and 400,000V	0.6m	0.6m	0.75m
16,500kV	275,000V and 400,000V	0.6m	0.6m	0.75m
21,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
27,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
34,500kV	275,000V and 400,000V	0.6m	0.6m	0.75m
44,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
57,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
72,750kV	275,000V and 400,000V	0.6m	0.6m	0.75m
93,750kV	275,000V and 400,000V	0.6m	0.6m	0.75m
120,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
155,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
200,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
260,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
335,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
430,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
560,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
720,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
930,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
1,200,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
1,575,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
2,025,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
2,675,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
3,475,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
4,475,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
5,825,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
7,575,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
9,900,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
12,900,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
16,650,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
21,225,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
27,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
35,625,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
45,375,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
58,625,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
75,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
98,250,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
127,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
165,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
215,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
282,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
369,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
481,250,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
622,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
809,250,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
1058,250,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
1395,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
1845,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
2437,250,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
3195,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
4155,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
5467,250,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
7185,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
9395,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
12305,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
16185,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
21345,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
28145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
37045,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
48545,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
63345,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
83145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
108945,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
143945,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
190145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
250145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
326145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
429145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
563145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
741145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
978145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
1291145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
1701145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
2241145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
2951145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
3881145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
5081145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
6691145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
8861145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
11761145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
15661145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
20861145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
27861145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
36461145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
48361145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
63461145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
83861145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
110861145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
147061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
195061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
257061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
337061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
440061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
582061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
770061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
1018061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
1342061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
1768061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
2328061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
3072061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
4048061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
5332061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
7012061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
9188061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
12088061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
15968061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
21168061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
28008061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
36888061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
48488061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
63528061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
83688061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
110688061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
147288061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
196088061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
260088061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
343288061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
450888061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
590888061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
772888061145,750,000kV	275,000V and 400,000V	0.6m	0.6m	0.75m
1018888061145,750,000kV	275,000V and 400,000V	0.6m	0.6m</	

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<p>0  50m</p>	<p>Dig Sites Area:  Line: </p>	<p>Extra High Voltage cables in vicinity</p>																											
<p>Date Requested: 11/06/2021 Job Reference: 22379388 Site Location: 367176 075049 Requested by: Mr Rory Casey Your Scheme/Reference: Portland Beach Road</p>	<p>WARNING</p> <p>There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>	<p>Legend</p> <p>Service Cables: 1V Mains 2-23kV 33kV 275kV 400kV 500kV 725kV 1000kV Fibre optic Post Cable</p> <p>Infrastructure Structures (Marked) Pole, Existing Location Pole to secure, Existing Location - Single Pole Structure, Existing Location - H Deck Route Cross Section Route</p>	<p>Voltagers (V) LV (Low Voltage) and Services Up to 1,000V 2,000V 22,000V to 33,000V HV (Extra High Voltage) Transmission 275,000V and 400,000V</p> <p>NORMAL DEPTHS TO THE TOP OF THE CABLE WHEN LAD</p> <table border="1" style="font-size: small;"> <tr> <td>Footpath/Unmade</td> <td>0.45m</td> <td>IV</td> <td>0.6m</td> <td>EHV</td> </tr> <tr> <td>Road Crossing</td> <td>0.6m</td> <td>IV</td> <td>0.6m</td> <td>EHV</td> </tr> <tr> <td>Agricultural</td> <td>0.6m</td> <td>IV</td> <td>0.75m</td> <td>EHV</td> </tr> <tr> <td></td> <td>0.6m</td> <td>IV</td> <td>0.9m</td> <td>EHV</td> </tr> <tr> <td></td> <td>0.6m</td> <td>IV</td> <td>1.1m</td> <td>EHV</td> </tr> </table>	Footpath/Unmade	0.45m	IV	0.6m	EHV	Road Crossing	0.6m	IV	0.6m	EHV	Agricultural	0.6m	IV	0.75m	EHV		0.6m	IV	0.9m	EHV		0.6m	IV	1.1m	EHV	<p>Scottish and Southern Energy Power Distribution Ltd. Registered Office: Inveralmond House, 200 Dunkeld Road, Perth, PH1 3AQ Registered in Scotland No. SC213459</p> <p>If you're unsure & need to seek advice before commencing excavations please contact: General Enquiries: 0800 048 3516 Subject to revision - Master held by SSE IT Asset Data Team: itasset@scsn.co.uk 01256 337 294</p>
Footpath/Unmade	0.45m	IV	0.6m	EHV																									
Road Crossing	0.6m	IV	0.6m	EHV																									
Agricultural	0.6m	IV	0.75m	EHV																									
	0.6m	IV	0.9m	EHV																									
	0.6m	IV	1.1m	EHV																									
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0 50m

Dig Sites Area: Line: ---

Extra High Voltage cables in vicinity

Date Requested: 11/06/2021
Job Reference: 22379388
Site Location: 367176 075049
Requested by:
Mr Rory Casey
Your Scheme/Reference: Portland
Beach Road

WARNING
There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.
WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES G56 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

LV (Low Voltage) and Services	Up to 1,000V	0.6m	0.8m
Medium Voltage (MV)	1,100V to 17.5kV	0.6m	0.9m
High Voltage (HV) (Extra High Voltage)	22,000V to 132,000V	0.6m	0.9m
Transmission	275,000V and 400,000V	0.6m	0.9m
NORMAL DEPTHS TO THE TOP OF THE CABLE WHEN LAD			
Services	LV	0.6m	0.8m
Footpath/Unmade	0.6m	0.6m	0.75m
Road Crossing	0.6m	0.6m	0.75m
Agricultural	0.6m	0.6m	1.1m

Service Cables	1V	10kV	15kV	20kV	25kV	30kV	33kV	36kV	40kV	45kV	50kV	60kV	75kV	110kV	132kV	175kV	275kV	400kV	500kV	
Substation Structures (Standard)	<ul style="list-style-type: none"> Peak Existing Location Peak To secure Existing Location - Single Peak Structure, Existing Location - H Peak Structure, Existing Location - H Dark Route Cross Section Route 																			



Scottish and Southern Energy Power Distribution Ltd.
Registered Office: Inveralmond House,
200 Dunkeld Road, Perth, PH1 3AQ
Registered in Scotland No. SC213459

If you're unsure & need to seek advice before commencing excavations please contact:
General Enquiries: 0800 048 3516
Subject to revision – Master held by SSE in Asset Data Team:
assetdata@scsn.co.uk
01256 337 294

Scale: 1:500 (When plotted at A3)

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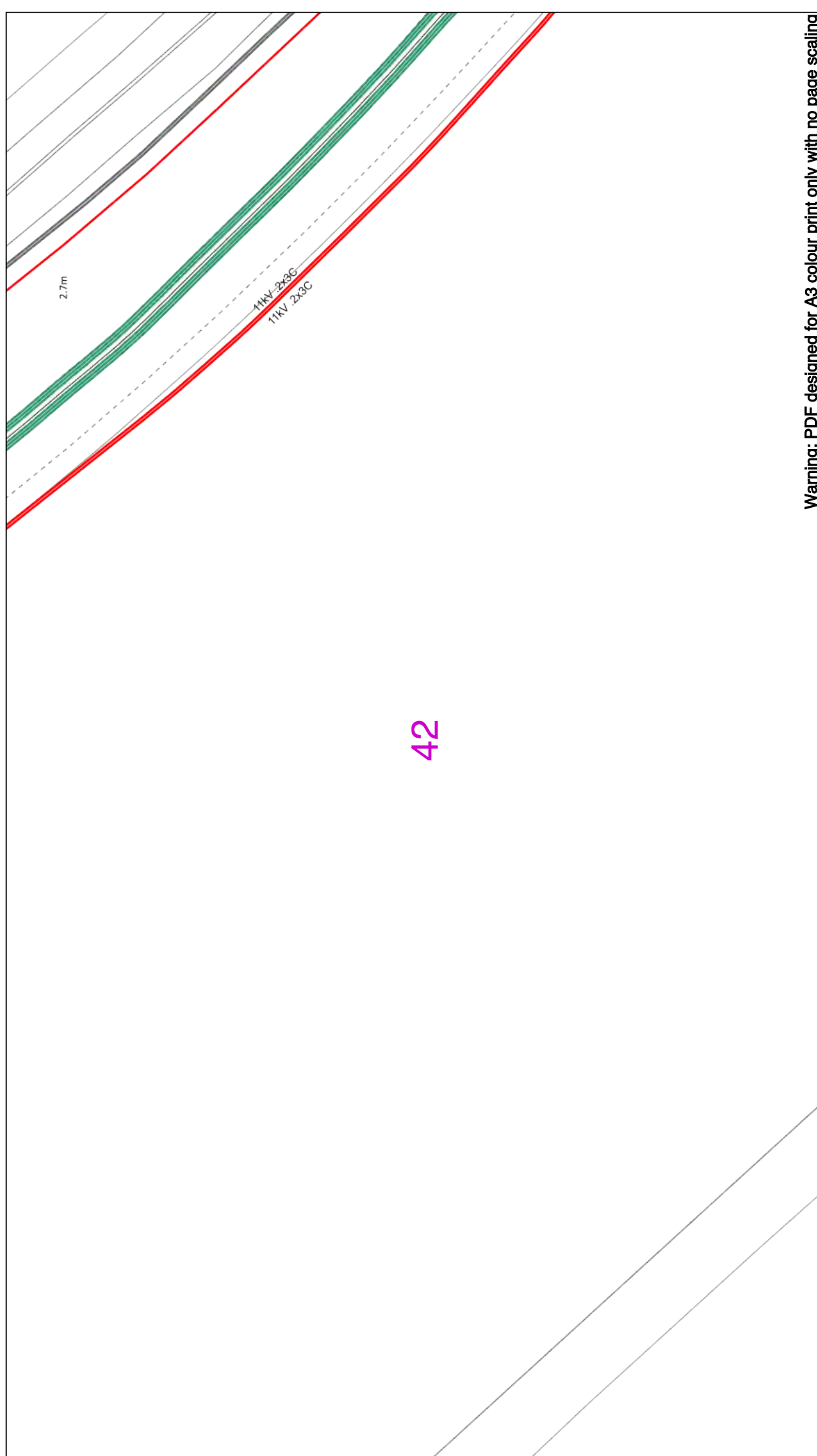
0 50 m

Dig Sites Area: Line: ---

Date Requested: 11/06/2021
 Job Reference: 22378388
 Site Location: 367176 075049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference: Portland
 Beach Road

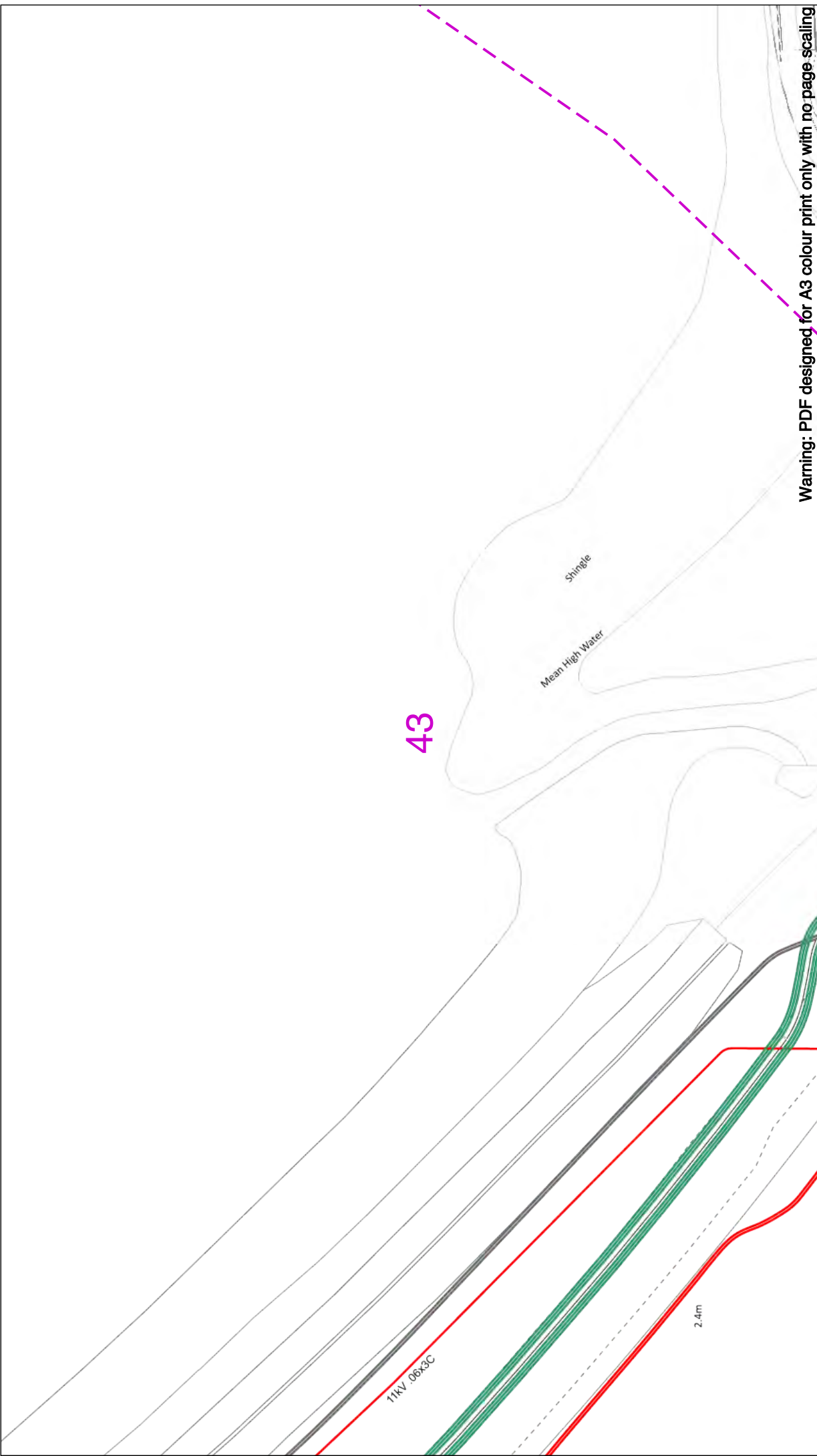
WARNING
 There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.
 WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Voltages (V)		Services		IV		EHV	
Up to 1,000V	Up to 1,000V	Up to 1,000V	Up to 1,000V	0.6m	0.6m	0.6m	0.8m
1,000V to 132,000V	1,000V to 132,000V	1,000V to 132,000V	1,000V to 132,000V	0.6m	0.6m	0.75m	0.9m
132,000V to 400,000V	132,000V to 400,000V	132,000V to 400,000V	132,000V to 400,000V	0.6m	0.6m	0.75m	0.9m
400,000V to 800,000V	400,000V to 800,000V	400,000V to 800,000V	400,000V to 800,000V	0.6m	0.6m	0.75m	0.9m
800,000V to 1,100,000V	800,000V to 1,100,000V	800,000V to 1,100,000V	800,000V to 1,100,000V	0.6m	0.6m	0.75m	0.9m
1,100,000V to 1,320,000V	1,100,000V to 1,320,000V	1,100,000V to 1,320,000V	1,100,000V to 1,320,000V	0.6m	0.6m	0.75m	0.9m
1,320,000V to 1,380,000V	1,320,000V to 1,380,000V	1,320,000V to 1,380,000V	1,320,000V to 1,380,000V	0.6m	0.6m	0.75m	0.9m
1,380,000V to 1,450,000V	1,380,000V to 1,450,000V	1,380,000V to 1,450,000V	1,380,000V to 1,450,000V	0.6m	0.6m	0.75m	0.9m
1,450,000V to 1,500,000V	1,450,000V to 1,500,000V	1,450,000V to 1,500,000V	1,450,000V to 1,500,000V	0.6m	0.6m	0.75m	0.9m
1,500,000V to 1,550,000V	1,500,000V to 1,550,000V	1,500,000V to 1,550,000V	1,500,000V to 1,550,000V	0.6m	0.6m	0.75m	0.9m
1,550,000V to 1,650,000V	1,550,000V to 1,650,000V	1,550,000V to 1,650,000V	1,550,000V to 1,650,000V	0.6m	0.6m	0.75m	0.9m
1,650,000V to 1,750,000V	1,650,000V to 1,750,000V	1,650,000V to 1,750,000V	1,650,000V to 1,750,000V	0.6m	0.6m	0.75m	0.9m
1,750,000V to 1,850,000V	1,750,000V to 1,850,000V	1,750,000V to 1,850,000V	1,750,000V to 1,850,000V	0.6m	0.6m	0.75m	0.9m
1,850,000V to 1,950,000V	1,850,000V to 1,950,000V	1,850,000V to 1,950,000V	1,850,000V to 1,950,000V	0.6m	0.6m	0.75m	0.9m
1,950,000V to 2,000,000V	1,950,000V to 2,000,000V	1,950,000V to 2,000,000V	1,950,000V to 2,000,000V	0.6m	0.6m	0.75m	0.9m
2,000,000V to 2,200,000V	2,000,000V to 2,200,000V	2,000,000V to 2,200,000V	2,000,000V to 2,200,000V	0.6m	0.6m	0.75m	0.9m
2,200,000V to 2,300,000V	2,200,000V to 2,300,000V	2,200,000V to 2,300,000V	2,200,000V to 2,300,000V	0.6m	0.6m	0.75m	0.9m
2,300,000V to 2,400,000V	2,300,000V to 2,400,000V	2,300,000V to 2,400,000V	2,300,000V to 2,400,000V	0.6m	0.6m	0.75m	0.9m
2,400,000V to 2,500,000V	2,400,000V to 2,500,000V	2,400,000V to 2,500,000V	2,400,000V to 2,500,000V	0.6m	0.6m	0.75m	0.9m
2,500,000V to 2,600,000V	2,500,000V to 2,600,000V	2,500,000V to 2,600,000V	2,500,000V to 2,600,000V	0.6m	0.6m	0.75m	0.9m
2,600,000V to 2,700,000V	2,600,000V to 2,700,000V	2,600,000V to 2,700,000V	2,600,000V to 2,700,000V	0.6m	0.6m	0.75m	0.9m
2,700,000V to 2,800,000V	2,700,000V to 2,800,000V	2,700,000V to 2,800,000V	2,700,000V to 2,800,000V	0.6m	0.6m	0.75m	0.9m
2,800,000V to 2,900,000V	2,800,000V to 2,900,000V	2,800,000V to 2,900,000V	2,800,000V to 2,900,000V	0.6m	0.6m	0.75m	0.9m
2,900,000V to 3,000,000V	2,900,000V to 3,000,000V	2,900,000V to 3,000,000V	2,900,000V to 3,000,000V	0.6m	0.6m	0.75m	0.9m
3,000,000V to 3,300,000V	3,000,000V to 3,300,000V	3,000,000V to 3,300,000V	3,000,000V to 3,300,000V	0.6m	0.6m	0.75m	0.9m
3,300,000V to 3,600,000V	3,300,000V to 3,600,000V	3,300,000V to 3,600,000V	3,300,000V to 3,600,000V	0.6m	0.6m	0.75m	0.9m
3,600,000V to 3,900,000V	3,600,000V to 3,900,000V	3,600,000V to 3,900,000V	3,600,000V to 3,900,000V	0.6m	0.6m	0.75m	0.9m
3,900,000V to 4,200,000V	3,900,000V to 4,200,000V	3,900,000V to 4,200,000V	3,900,000V to 4,200,000V	0.6m	0.6m	0.75m	0.9m
4,200,000V to 4,500,000V	4,200,000V to 4,500,000V	4,200,000V to 4,500,000V	4,200,000V to 4,500,000V	0.6m	0.6m	0.75m	0.9m
4,500,000V to 4,800,000V	4,500,000V to 4,800,000V	4,500,000V to 4,800,000V	4,500,000V to 4,800,000V	0.6m	0.6m	0.75m	0.9m
4,800,000V to 5,100,000V	4,800,000V to 5,100,000V	4,800,000V to 5,100,000V	4,800,000V to 5,100,000V	0.6m	0.6m	0.75m	0.9m
5,100,000V to 5,400,000V	5,100,000V to 5,400,000V	5,100,000V to 5,400,000V	5,100,000V to 5,400,000V	0.6m	0.6m	0.75m	0.9m
5,400,000V to 5,700,000V	5,400,000V to 5,700,000V	5,400,000V to 5,700,000V	5,400,000V to 5,700,000V	0.6m	0.6m	0.75m	0.9m
5,700,000V to 6,000,000V	5,700,000V to 6,000,000V	5,700,000V to 6,000,000V	5,700,000V to 6,000,000V	0.6m	0.6m	0.75m	0.9m
6,000,000V to 6,300,000V	6,000,000V to 6,300,000V	6,000,000V to 6,300,000V	6,000,000V to 6,300,000V	0.6m	0.6m	0.75m	0.9m
6,300,000V to 6,600,000V	6,300,000V to 6,600,000V	6,300,000V to 6,600,000V	6,300,000V to 6,600,000V	0.6m	0.6m	0.75m	0.9m
6,600,000V to 6,900,000V	6,600,000V to 6,900,000V	6,600,000V to 6,900,000V	6,600,000V to 6,900,000V	0.6m	0.6m	0.75m	0.9m
6,900,000V to 7,200,000V	6,900,000V to 7,200,000V	6,900,000V to 7,200,000V	6,900,000V to 7,200,000V	0.6m	0.6m	0.75m	0.9m
7,200,000V to 7,500,000V	7,200,000V to 7,500,000V	7,200,000V to 7,500,000V	7,200,000V to 7,500,000V	0.6m	0.6m	0.75m	0.9m
7,500,000V to 7,800,000V	7,500,000V to 7,800,000V	7,500,000V to 7,800,000V	7,500,000V to 7,800,000V	0.6m	0.6m	0.75m	0.9m
7,800,000V to 8,100,000V	7,800,000V to 8,100,000V	7,800,000V to 8,100,000V	7,800,000V to 8,100,000V	0.6m	0.6m	0.75m	0.9m
8,100,000V to 8,400,000V	8,100,000V to 8,400,000V	8,100,000V to 8,400,000V	8,100,000V to 8,400,000V	0.6m	0.6m	0.75m	0.9m
8,400,000V to 8,700,000V	8,400,000V to 8,700,000V	8,400,000V to 8,700,000V	8,400,000V to 8,700,000V	0.6m	0.6m	0.75m	0.9m
8,700,000V to 9,000,000V	8,700,000V to 9,000,000V	8,700,000V to 9,000,000V	8,700,000V to 9,000,000V	0.6m	0.6m	0.75m	0.9m
9,000,000V to 9,300,000V	9,000,000V to 9,300,000V	9,000,000V to 9,300,000V	9,000,000V to 9,300,000V	0.6m	0.6m	0.75m	0.9m
9,300,000V to 9,600,000V	9,300,000V to 9,600,000V	9,300,000V to 9,600,000V	9,300,000V to 9,600,000V	0.6m	0.6m	0.75m	0.9m
9,600,000V to 9,900,000V	9,600,000V to 9,900,000V	9,600,000V to 9,900,000V	9,600,000V to 9,900,000V	0.6m	0.6m	0.75m	0.9m
9,900,000V to 10,200,000V	9,900,000V to 10,200,000V	9,900,000V to 10,200,000V	9,900,000V to 10,200,000V	0.6m	0.6m	0.75m	0.9m
10,200,000V to 10,500,000V	10,200,000V to 10,500,000V	10,200,000V to 10,500,000V	10,200,000V to 10,500,000V	0.6m	0.6m	0.75m	0.9m
10,500,000V to 10,800,000V	10,500,000V to 10,800,000V	10,500,000V to 10,800,000V	10,500,000V to 10,800,000V	0.6m	0.6m	0.75m	0.9m
10,800,000V to 11,100,000V	10,800,000V to 11,100,000V	10,800,000V to 11,100,000V	10,800,000V to 11,100,000V	0.6m	0.6m	0.75m	0.9m
11,100,000V to 11,400,000V	11,100,000V to 11,400,000V	11,100,000V to 11,400,000V	11,100,000V to 11,400,000V	0.6m	0.6m	0.75m	0.9m
11,400,000V to 11,700,000V	11,400,000V to 11,700,000V	11,400,000V to 11,700,000V	11,400,000V to 11,700,000V	0.6m	0.6m	0.75m	0.9m
11,700,000V to 12,000,000V	11,700,000V to 12,000,000V	11,700,000V to 12,000,000V	11,700,000V to 12,000,000V	0.6m	0.6m	0.75m	0.9m
12,000,000V to 12,300,000V	12,000,000V to 12,300,000V	12,000,000V to 12,300,000V	12,000,000V to 12,300,000V	0.6m	0.6m	0.75m	0.9m
12,300,000V to 12,600,000V	12,300,000V to 12,600,000V	12,300,000V to 12,600,000V	12,300,000V to 12,600,000V	0.6m	0.6m	0.75m	0.9m
12,600,000V to 12,900,000V	12,600,000V to 12,900,000V	12,600,000V to 12,900,000V	12,600,000V to 12,900,000V	0.6m	0.6m	0.75m	0.9m
12,900,000V to 13,200,000V	12,900,000V to 13,200,000V	12,900,000V to 13,200,000V	12,900,000V to 13,200,000V	0.6m	0.6m	0.75m	0.9m
13,200,000V to 13,500,000V	13,200,000V to 13,500,000V	13,200,000V to 13,500,000V	13,200,000V to 13,500,000V	0.6m	0.6m	0.75m	0.9m
13,500,000V to 13,800,000V	13,500,000V to 13,800,000V	13,500,000V to 13,800,000V	13,500,000V to 13,800,000V	0.6m	0.6m	0.75m	0.9m
13,800,000V to 14,100,000V	13,800,000V to 14,100,000V	13,800,000V to 14,100,000V	13,800,000V to 14,100,000V	0.6m	0.6m	0.75m	0.9m
14,100,000V to 14,400,000V	14,100,000V to 14,400,000V	14,100,000V to 14,400,000V	14,100,000V to 14,400,000V	0.6m	0.6m	0.75m	0.9m
14,400,000V to 14,700,000V	14,400,000V to 14,700,000V	14,400,000V to 14,700,000V	14,400,000V to 14,700,000V	0.6m	0.6m	0.75m	0.9m
14,700,000V to 15,000,000V	14,700,000V to 15,000,000V	14,700,000V to 15,000,000V	14,700,000V to 15,000,000V	0.6m	0.6m	0.75m	0.9m
15,000,000V to 15,300,000V	15,000,000V to 15,300,000V	15,000,000V to 15,300,000V	15,000,000V to 15,300,000V	0.6m	0.6m	0.75m	0.9m
15,300,000V to 15,600,000V	15,300,000V to 15,600,000V	15,300,000V to 15,600,000V	15,300,000V to 15,600,000V	0.6m	0.6m	0.75m	0.9m
15,600,000V to 15,900,000V	15,600,000V to 15,900,000V	15,600,000V to 15,900,000V	15,600,000V to 15,900,000V	0.6m	0.6m	0.75m	0.9m
15,900,000V to 16,200,000V	15,900,000V to 16,200,000V	15,900,000V to 16,200,000V	15,900,000V to 16,200,000V	0.6m	0.6m	0.75m	0.9m
16,200,000V to 16,500,000V	16,200,000V to 16,500,000V	16,200,000V to 16,500,000V	16,200,000V to 16,500,000V	0.6m	0.6m	0.75m	0.9m
16,500,000V to 16,800,000V	16,500,000V to 16,800,000V	16,500,000V to 16,800,000V	16,500,000V to 16,800,000V	0.6m	0.6m	0.75m	0.9m
16,800,000V to 17,100,000V	16,800,000V to 17,100,000V	16,800,000V to 17,100,000V	16,800,000V to 17,100,000V	0.6m	0.6m	0.75m	0.9m
17,100,000V to 17,400,000V	17,100,000V to 17,400,000V	17,100,000V to 17,400,000V	17,100,000V to 17,400,000V	0.6m	0.6m	0.75m	0.9m
17,400,000V to 17,700,000V	17,400,000V to 17,700,000V	17,400,000V to 17,700,000V	17,400,000V to 17,700,000V	0.6m	0.6m	0.75m	0.9m
17,700,000V to 18,000,000V	17,700,000V to 18,000,000V	17,700,000V to					



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<p>Date Requested: 11/06/2021 Job Reference: 22378388 Site Location: 367176 075049 Requested by: Mr Rory Casey Your Scheme/Reference: Portland Beach Road</p>	<p>WARNING There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>	<p>0 50m Dig Sites Area: Line: ---</p>	<p>Extra High Voltage cables in vicinity</p> <p>Legend</p> <p>Service Cables 1V Mains 2-33kV 33kV 275kV 33kV 66kV 132kV 275kV 400kV 500kV 660kV 725kV 1100kV 1320kV 1500kV 1725kV 2200kV 2750kV 3300kV 4000kV 5000kV 6600kV 8000kV 10000kV 13200kV 17250kV 22000kV 27500kV 33000kV 40000kV 50000kV 66000kV 80000kV 100000kV 132000kV 172500kV 220000kV 275000kV 330000kV 400000kV 500000kV 660000kV 800000kV 1000000kV 1320000kV 1725000kV 2200000kV 2750000kV 3300000kV 4000000kV 5000000kV 6600000kV 8000000kV 10000000kV 13200000kV 17250000kV 22000000kV 27500000kV 33000000kV 40000000kV 50000000kV 66000000kV 80000000kV 100000000kV 132000000kV 172500000kV 220000000kV 275000000kV 330000000kV 400000000kV 500000000kV 660000000kV 800000000kV 1000000000kV 1320000000kV 1725000000kV 2200000000kV 2750000000kV 3300000000kV 4000000000kV 5000000000kV 6600000000kV 8000000000kV 10000000000kV 13200000000kV 17250000000kV 22000000000kV 27500000000kV 33000000000kV 40000000000kV 50000000000kV 66000000000kV 80000000000kV 100000000000kV 132000000000kV 172500000000kV 220000000000kV 275000000000kV 330000000000kV 400000000000kV 500000000000kV 660000000000kV 800000000000kV 1000000000000kV 1320000000000kV 1725000000000kV 2200000000000kV 2750000000000kV 3300000000000kV 4000000000000kV 5000000000000kV 6600000000000kV 8000000000000kV 10000000000000kV 13200000000000kV 17250000000000kV 22000000000000kV 27500000000000kV 33000000000000kV 40000000000000kV 50000000000000kV 66000000000000kV 80000000000000kV 100000000000000kV 132000000000000kV 172500000000000kV 220000000000000kV 275000000000000kV 330000000000000kV 400000000000000kV 500000000000000kV 660000000000000kV 800000000000000kV 1000000000000000kV 1320000000000000kV 1725000000000000kV 2200000000000000kV 2750000000000000kV 3300000000000000kV 4000000000000000kV 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66000000000000000000000000000000000000000kV 800kV 1000kV 132000000000000000000000000000000000000000kV 172500000000000000000000000000000000000000kV 2200kV 275000000000000000000000000000000000000000kV 3300kV 4000kV 5000kV 6600kV 8000kV 100kV</p>
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0 **50m**

Dig Sites Area: Line:

WARNING
 There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.
WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

43

Shingle
Mean High Water

Legend

Service Cable	Watercourse (Natural)
1V Mains	Peak Existing Location
2-23kV	Peak to occur, Existing Location - Single
33kV	Peak Structure, Existing Location - H
11kV	Duct Route
22kV	Cross Section Route
33kV	
66kV	
110kV	
275kV	
400kV	
Other Cables	

Volages (V)	Up to 1,000V	0.6m	0.8m
1V (Low Voltage) and Services	1,000V to 11,000V	0.6m	0.9m
2-23kV	22,000V to 33,000V	0.6m	0.9m
33kV (Extra High Voltage)	33,000V to 66,000V	0.6m	0.9m
Transmission	275,000V and 400,000V	0.6m	0.9m

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAY

Services	1V	0.6m	0.8m
Footpath/Unmade	0.6m	0.6m	0.9m
Road Crossing	0.6m	0.6m	0.9m
Agricultural	0.6m	0.6m	0.9m

Job Reference: 11/06/2021

Site Location: 367176 075049

Requested by: Mr Rory Casey

Your Scheme/Reference: Portland Beach Road

Scale: 1:500 (When plotted at A3)

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Dig Sites Area: Line:

WARNING
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 WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Legend

Service Cables

- 1V Mains
- 2-23kV
- 33kV
- 275kV
- 33kV
- 100kV
- 175kV
- 400kV
- Other Cables

Interlocked Structures (Hatched)

- Peak Existing Location
- Peak to be excavated, Existing Location - Single
- Peak to be excavated, Existing Location - M
- Duct Route
- Cross Section Route

Voltagers (V)

Up to 1,000V	0.6m	0.6m	0.8m
1,000V to 17.5kV	0.6m	0.6m	0.9m
17.5kV to 132,000V	0.6m	0.6m	0.9m
132,000V to 400,000V	0.6m	0.6m	0.9m
400,000V	0.6m	0.6m	0.9m

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN Laid

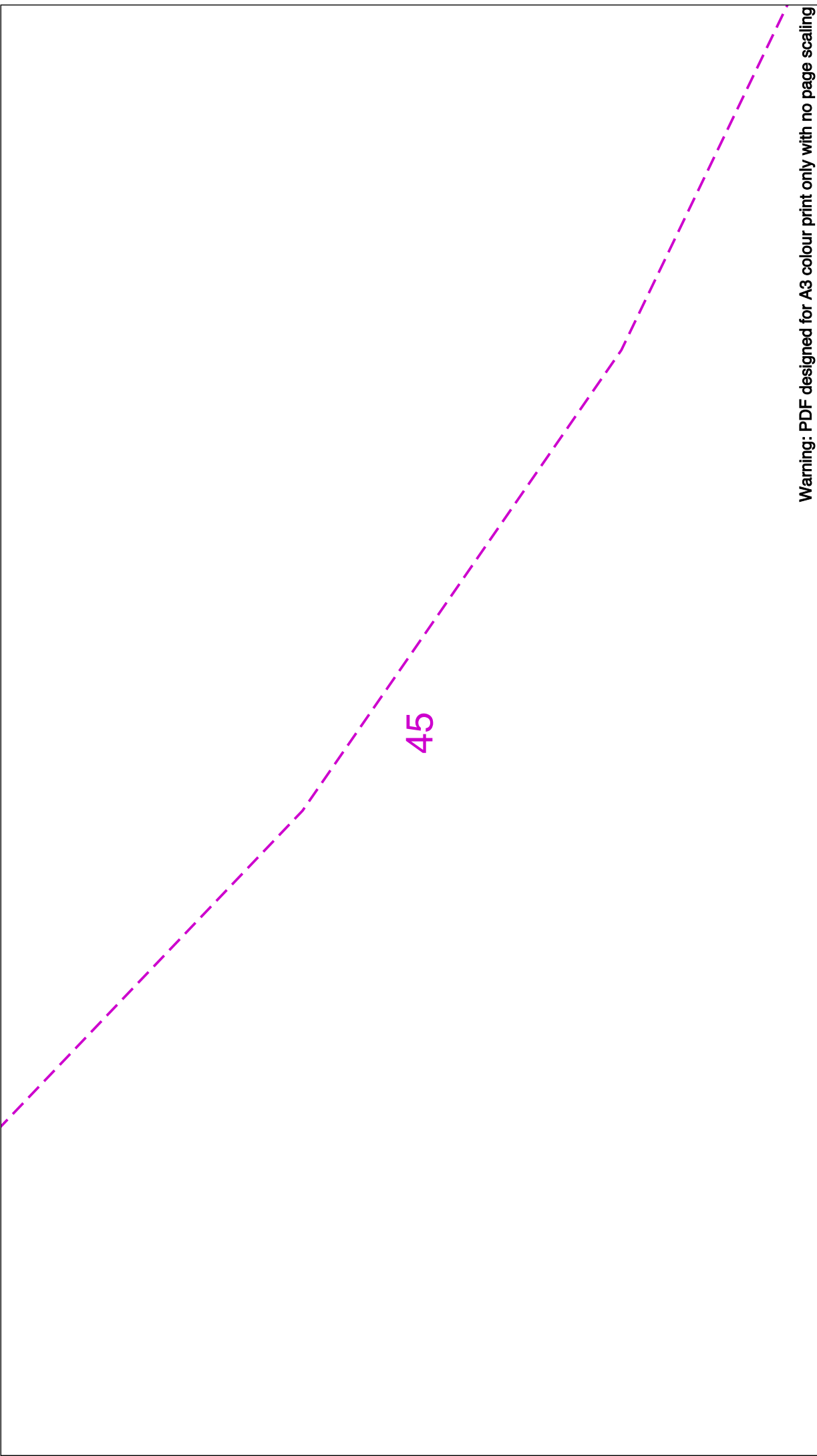
Services	1V	0.6m	0.6m
Footpath/Unmade	0.6m	0.6m	0.75m
Road Crossing	0.6m	0.6m	0.75m
Agricultural	0.6m	0.6m	1.1m

Date Requested: 11/06/2021
 Job Reference: 22379388
 Site Location: 367176 075049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference: Portland Beach Road

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<p>Extra High Voltage cables in vicinity</p>																	
<p>Date Requested: 11/06/2021 Job Reference: 22379388 Site Location: 367176 075049 Requested by: Mr Rory Casey Your Scheme/Reference: Portland Beach Road</p>	<p>Scale: 1:500 (When plotted at A3)</p>																
<p>There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>	<p>WARNING</p>																
<p>Legend</p> <ul style="list-style-type: none"> Service Cables 1V Mains 2 - 23kV 33kV 275kV 33kV 100kV 175kV 400kV Other cables Proposed cables 	<p>Interchange Structures (Marked)</p> <ul style="list-style-type: none"> Pole, Existing Location Pole Structure, Existing Location - Single Pole Structure, Existing Location - H Duct Route Cross Section Route 																
<p>Voltagers (V)</p> <ul style="list-style-type: none"> Up to 1,000V 1,000V to 1,500V 1,500V to 22,000V 22,000V to 400,000V 400,000V and above <p>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD</p> <table border="1"> <tr> <td>Services</td> <td>1V</td> <td>0.6m</td> <td>0.8m</td> </tr> <tr> <td>Footpath/Unmade</td> <td>0.6m</td> <td>0.6m</td> <td>0.9m</td> </tr> <tr> <td>Road Crossing</td> <td>0.6m</td> <td>0.6m</td> <td>0.75m</td> </tr> <tr> <td>Agricultural</td> <td>0.6m</td> <td>0.6m</td> <td>1.1m</td> </tr> </table>	Services	1V	0.6m	0.8m	Footpath/Unmade	0.6m	0.6m	0.9m	Road Crossing	0.6m	0.6m	0.75m	Agricultural	0.6m	0.6m	1.1m	<p>Scottish and Southern Energy Power Distribution Ltd. Registered Office: Inverchonnard House, 200 Dunkeld Road, Perth, PH1 3AQ Registered in Scotland No. SC213459</p> <p>If you're unsure & need to seek advice before commencing excavations please contact: General Enquiries: 0800 048 3516</p> <p>Subject to revision – Master held by SSE in Asset Data Team: asset.data@scsn.co.uk 01256 337 294</p>
Services	1V	0.6m	0.8m														
Footpath/Unmade	0.6m	0.6m	0.9m														
Road Crossing	0.6m	0.6m	0.75m														
Agricultural	0.6m	0.6m	1.1m														

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47

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Dig Sites Area:  Line: 

WARNING

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




















WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Date Requested: 11/06/2021
 Job Reference: 22379388
 Site Location: 367176 075049
 Requested by:
 Mr Rory Casey
 Your Scheme/Reference: Portland Beach Road

Scale: 1:500 (When plotted at A3)

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Legend

 Service Cable	 Water Main	 High Voltage	 Overhead Structure (Marked)
 2-23kV	 11kV	 23kV	 Peak Existing Location
 10kV	 33kV	 66kV	 Peak Structure Existing Location
 110kV	 175kV	 275kV	 Duct Route
 400kV	 500kV	 1100kV	 Cross Section Route
 1100kV	 1100kV	 1100kV	 1100kV


Voltagers (V)

Up to 1,000V	0.6m	0.6m	0.8m
1,000V to 11,000V	0.6m	0.6m	0.9m
11,000V to 22,000V	0.6m	0.75m	0.9m
22,000V to 110,000V	0.6m	0.75m	1.1m
110,000V to 275,000V	0.6m	0.75m	1.1m
275,000V and 400,000V	0.6m	0.75m	1.1m

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN Laid

Services	0.45m	0.6m	0.8m
Footpath/Unmade	0.6m	0.6m	0.9m
Road Crossing	0.6m	0.6m	0.9m
Agricultural	0.6m	0.6m	0.9m

Extra High Voltage cables in vicinity

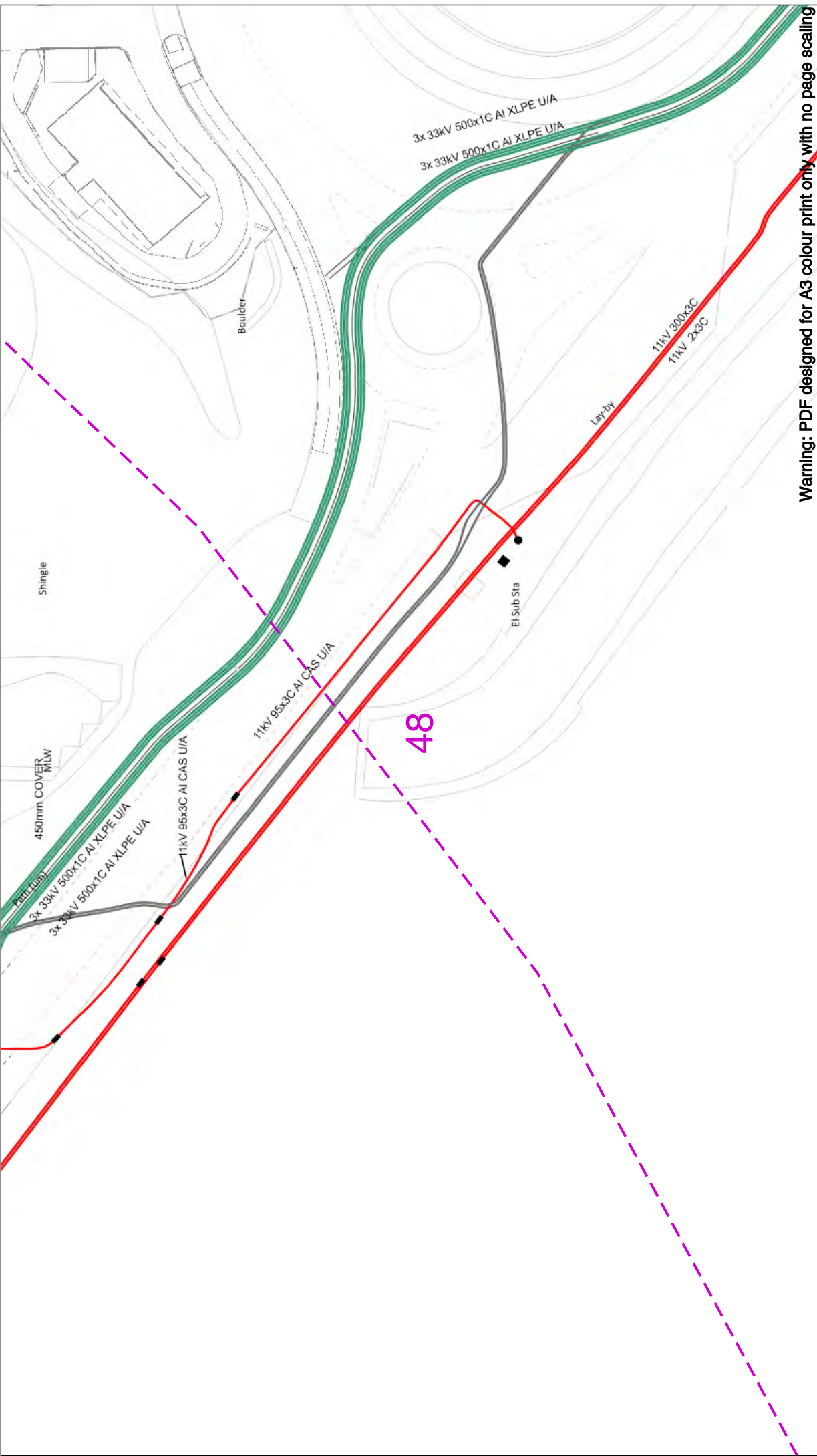


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Dig Sites Area: Line:

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Legend

Service Cable

- 11kV
- 20kV
- 33kV
- 275kV
- 400kV
- 725kV
- 1000kV
- 1100kV

Interchange Structure (Detailed)

- Point to Existing Location
- Point to New Location
- Point to Structure, Existing Location
- Point to Structure, New Location
- Duct Route
- Cross Section Route

Voltagers (V)

Up to 1,000V
1,000V to 11,000V
11,000V to 22,000V
22,000V to 33,000V
33,000V to 400,000V
400,000V to 725,000V
725,000V and 400,000V

NORMAL DEPTHS TO THE TOP OF THE CABLE WHEN LAD

Services	11kV	20kV	33kV	275kV	400kV	725kV	1000kV	1100kV
Footpath/Unmade	0.6m	0.6m	0.6m	0.6m	0.6m	0.6m	0.6m	0.6m
Road Crossing	0.6m	0.6m	0.6m	0.6m	0.6m	0.6m	0.6m	0.6m
Agricultural	0.6m	0.6m	0.6m	0.6m	0.6m	0.6m	0.6m	0.6m

WARNING

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WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Date Requested: 11/06/2021
Job Reference: 22379388
Site Location: 367176 075049
Requested by:
Mr Rory Casey
Your Scheme/Reference: Portland Beach Road

Scale: 1:500 (When plotted at A3)

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0 50m

Dig Sites Area: Line: ---

Extra High Voltage cables in vicinity

Date Requested: 11/06/2021
Job Reference: 22378388
Site Location: 367176 075049
Requested by:
Mr Rory Casey
Your Scheme/Reference: Portland
Beach Road

WARNING
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WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Voltages (V)		Normal Depth to the Top of the Cable when Laid	
LV (Low Voltage) and Services	Up to 1,000V	Services LV	0.6m
Medium Voltage	1,100V to 17.5kV	IV	0.6m
EHV (Extra High Voltage)	22,000V to 132,000V	IV	0.6m
Transmission	275,000V and 400,000V	EHV	0.8m
			0.9m
			0.75m
			2.1m
			1.1m

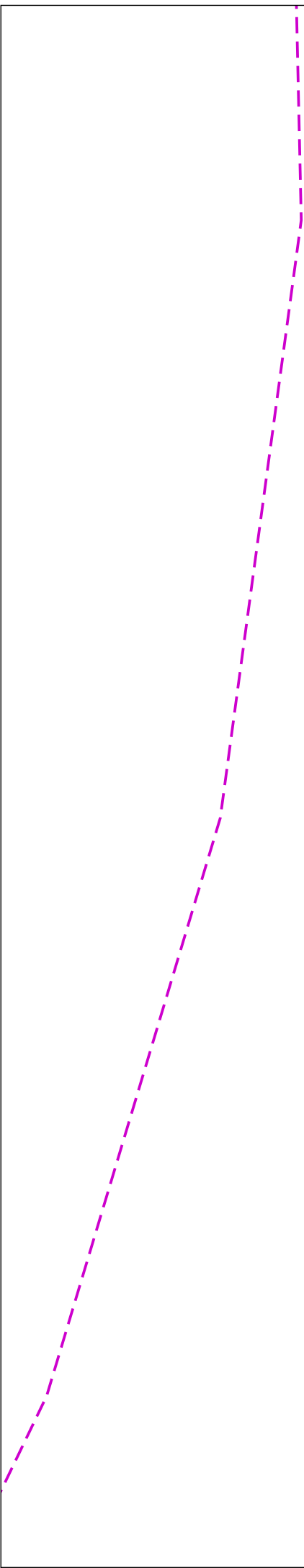
Legend	
Service Cable	11kV
11kV	11kV
2-17.5kV	17.5kV
22kV	22kV
275kV	275kV
400kV	400kV
EHV	EHV
IV	IV
Transmission	Transmission

Interlocked Structures (Hatched)
Peak Existing Location
Peak to excavate, Existing Location - Single
Peak Structure, Existing Location - H
Dark Route
Cross Section Route



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Scale: 1:500 (When plotted at A3)
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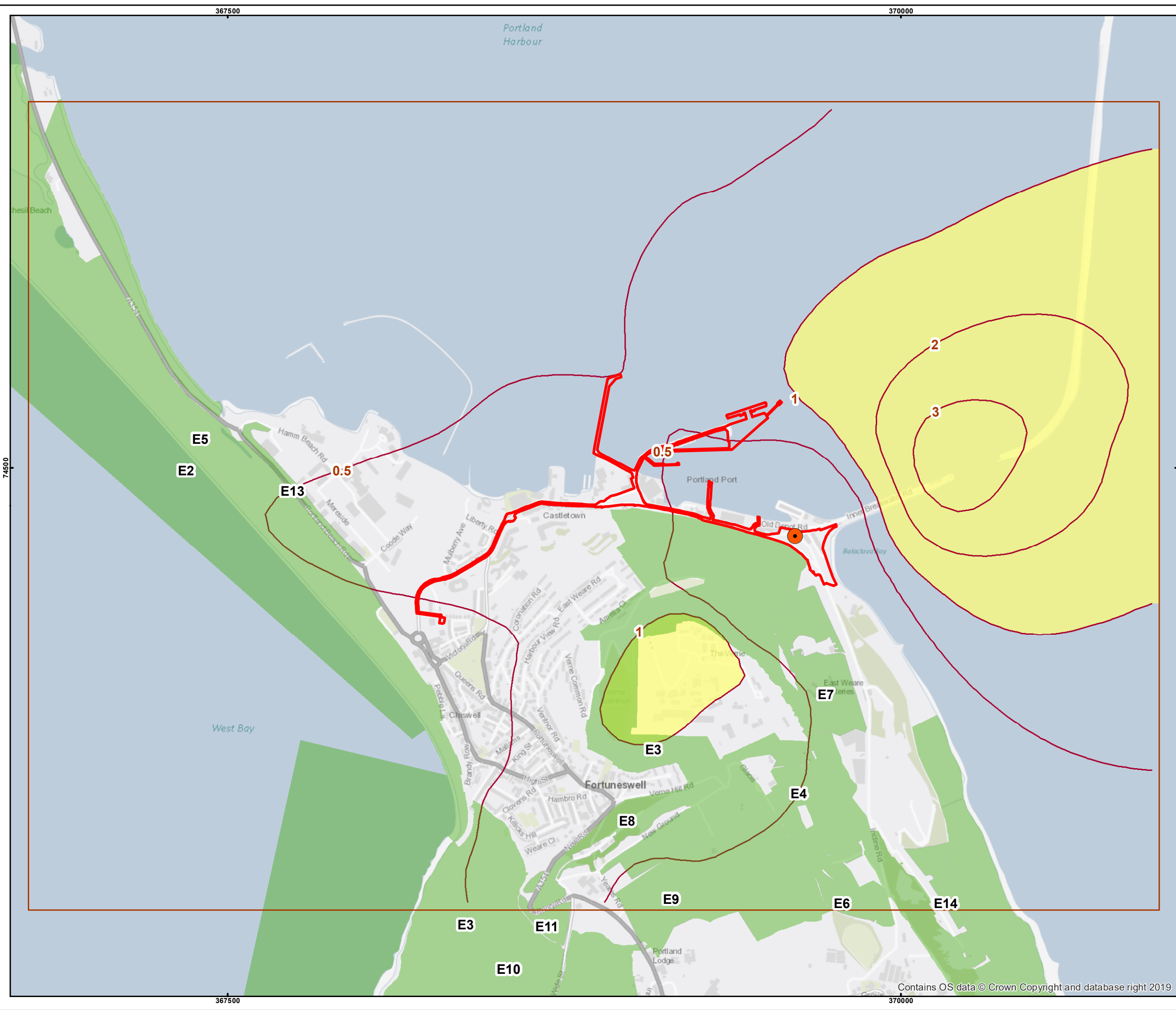


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Warning: PDF designed for A3 colour print only with no page scaling

<p>Date Requested: 11/06/2021 Job Reference: 22379388 Site Location: 367176 075049 Requested by: Mr Rory Casey Your Scheme/Reference: Portland Beach Road</p>	<p>WARNING There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)</p>	<p>Volages (V) LV (Low Voltage) and Services Up to 1,000V MV (Medium Voltage) 1.1kV to 33kV HV (Extra High Voltage) 33kV to 132,000V Transmission 275,000V and 400,000V</p> <p>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAD</p> <table border="1"> <tr> <td>Footpath/Unmade Road Crossing</td> <td>0.45m</td> <td>IV</td> <td>0.6m</td> <td>EV</td> <td>0.8m</td> </tr> <tr> <td>Agri/Grass</td> <td>0.5m</td> <td>IV</td> <td>0.6m</td> <td>EV</td> <td>0.9m</td> </tr> <tr> <td></td> <td>0.7m</td> <td>IV</td> <td>0.75m</td> <td>EV</td> <td>1.1m</td> </tr> </table>	Footpath/Unmade Road Crossing	0.45m	IV	0.6m	EV	0.8m	Agri/Grass	0.5m	IV	0.6m	EV	0.9m		0.7m	IV	0.75m	EV	1.1m	<p>Legend</p> <p>Service Cables: 1V (Black) 2-33kV (Various Colours) 33kV (Red) 275kV (Green) 400kV (Blue) 132kV (Orange) 110kV (Purple) 275kV (Light Blue) 400kV (Dark Blue) HV (Extra High Voltage) (Yellow)</p> <p>Interactions Structures (Hazard)</p> <p>Peak Existing Location Peak Structure Existing Location - H Peak Structure Existing Location - W Date Issue Cross Section Route</p>	<p>Extra High Voltage cables in vicinity</p>	<p></p> <p>Scottish and Southern Energy Power Distribution Ltd. Registered Office: Inveralmond House, 200 Dunkeld Road, Perth, PH1 3AQ Registered in Scotland No. SC213459</p> <p>If you're unsure & need to seek advice before commencing excavations please contact: General Enquiries: 0800 048 3516 Subject to revision – Master held by SSE M Asset Data Team: 01256.337.294</p>	<p></p>
Footpath/Unmade Road Crossing	0.45m	IV	0.6m	EV	0.8m																			
Agri/Grass	0.5m	IV	0.6m	EV	0.9m																			
	0.7m	IV	0.75m	EV	1.1m																			
<p>0 50m</p>	<p>Dig Sites Area: Line: </p>	<p>BASED UPON THE ORDINANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M STATIONERY OFFICE CROWN COPYRIGHT RESERVED. This copy has been made by or with the authority of Scottish and Southern Energy Power Distribution Ltd. Pursuant to section 47 of the Copyright, Designs and Patents Act 1988 ('The Act'). Unless the ACT provides a relevant exception to copyright the copy must not be copied without prior permission of the copyright owner. Plans generated by DigSAFE Pro™ software provided by LinesearchbeforeUdig.</p>																						

Appendix 5: Extracts from Fichtner reports

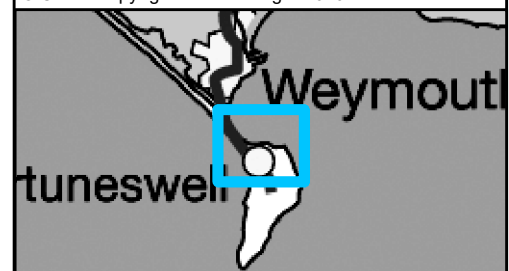


- Legend**
- Stack
 - Site Boundary
 - Modelling Domain
 - Ecological sites
 - PC of NO_x (as a % of critical level)
 - >1 % of critical level
 - <1 % of critical level

Client:	Powerful Ltd
Site:	Portland EfW
Project:	2953
Title:	

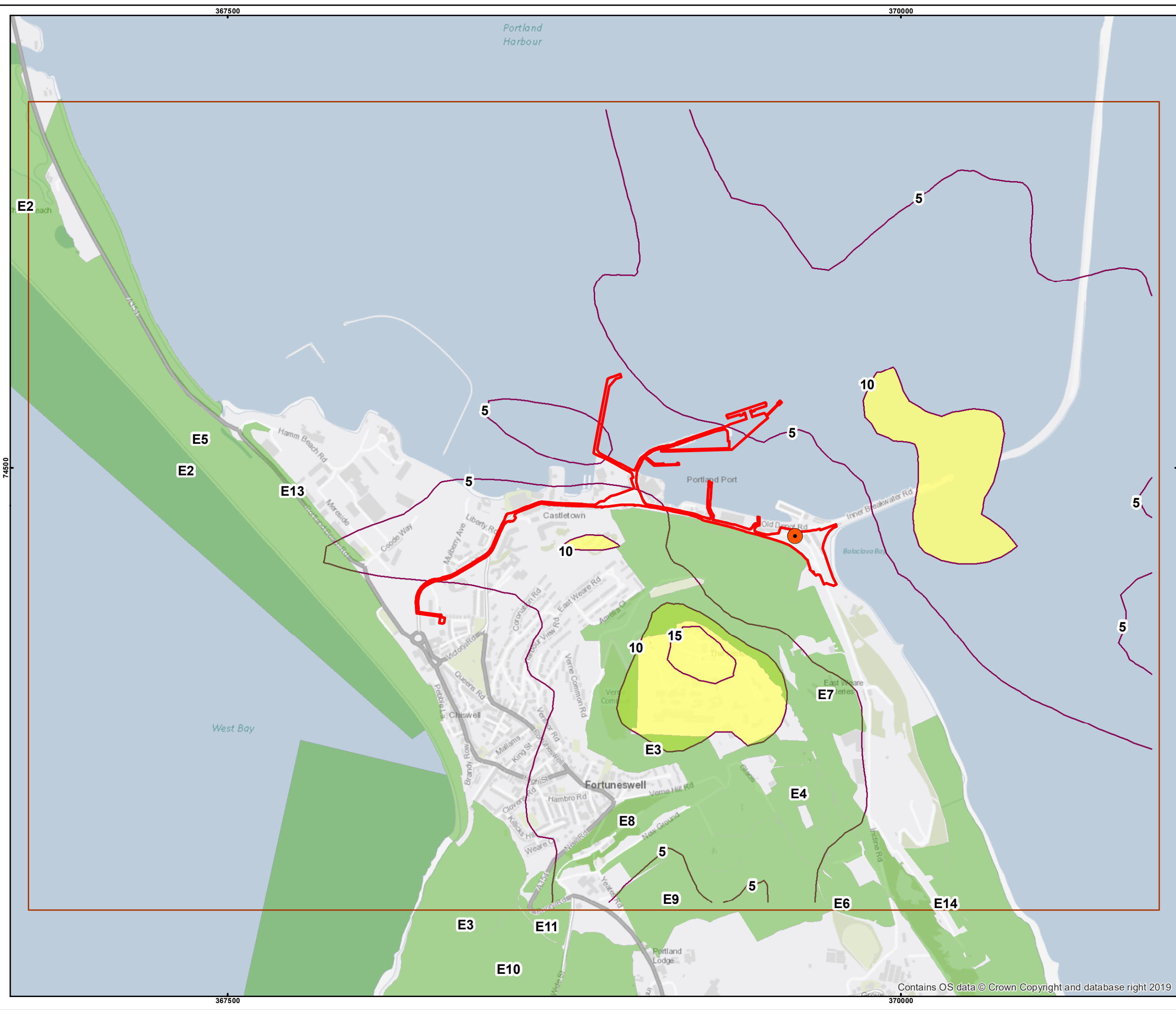
Figure 12 - Annual Mean Oxides of Nitrogen Analysis

Drawn by:	Hannah Lederer	Date:	07/08/2020
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FICHTNER
Consulting Engineers Limited

Kingsgate, Wellington Road North,
Stockport, Cheshire, SK4 1LW
Tel: 0161 476 0032
Fax: 0161 474 0618

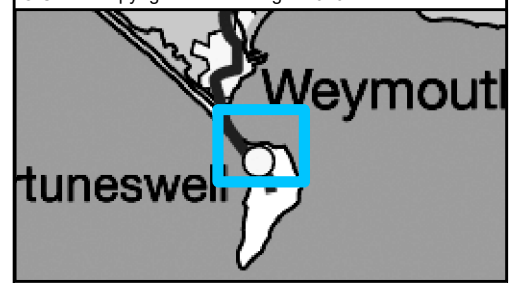


- Legend**
- Stack
 - Site Boundary
 - Modelling Domain
 - Ecological Sites
 - PC of NOx (as a % of critical level)
 - <10 % of critical level
 - >10 % of critical level

Client:	Powerfuel Ltd
Site:	Portland EfW
Project:	2953
Title:	

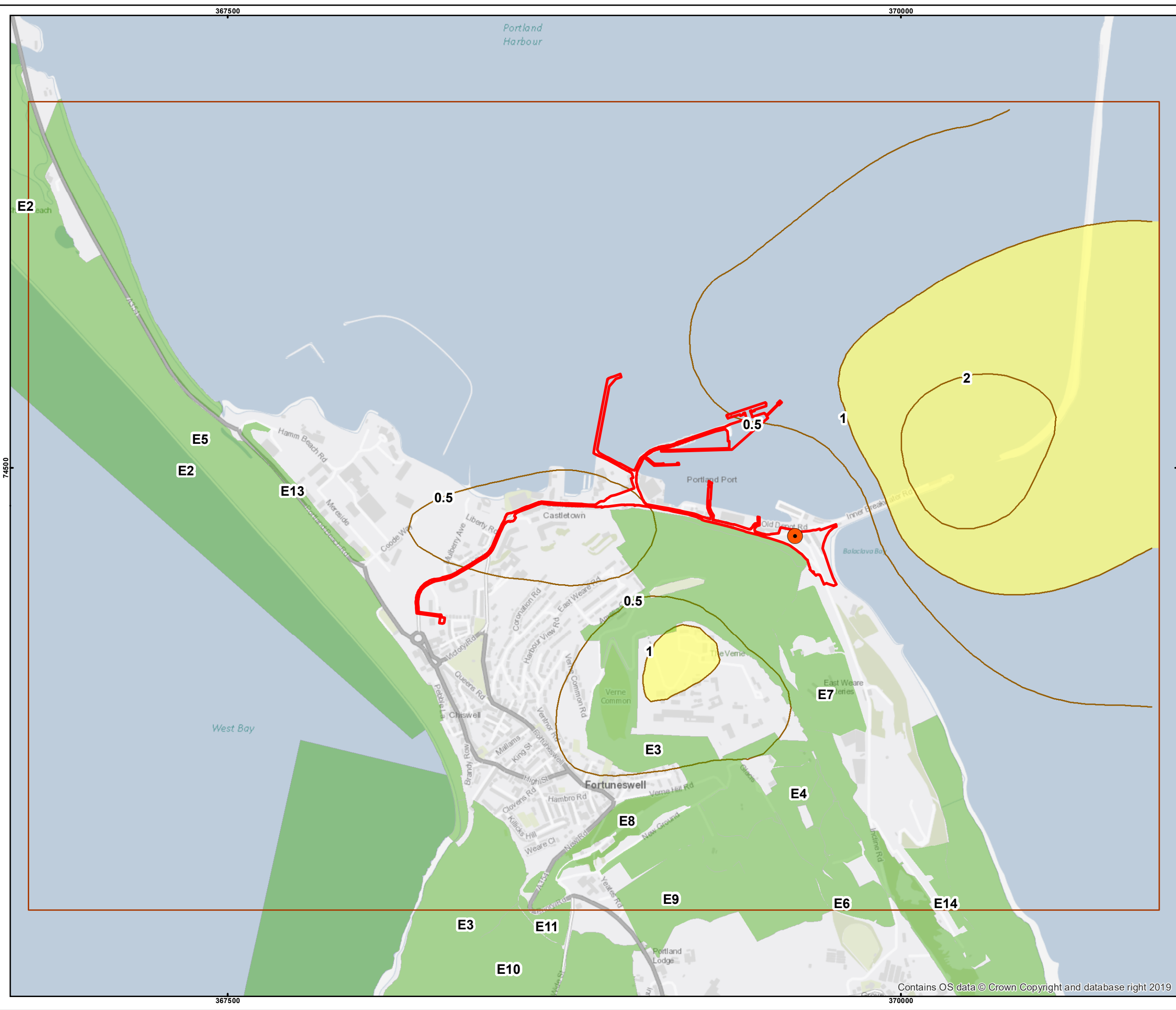
Figure 13 - Daily Mean Oxides of Nitrogen Analysis

Drawn by:	Hannah Lederer	Date:	07/08/2020
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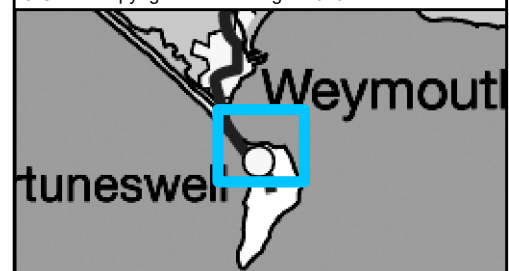


- Legend**
- Stack
 - Site Boundary
 - Modelling Domain
 - Ecological Sites
 - PC of SO2 (as a % of critical level)
 - <1 % of critical level
 - >1 % of critical level

Client:	Powerfuel Ltd
Site:	Portland EfW
Project:	2953
Title:	

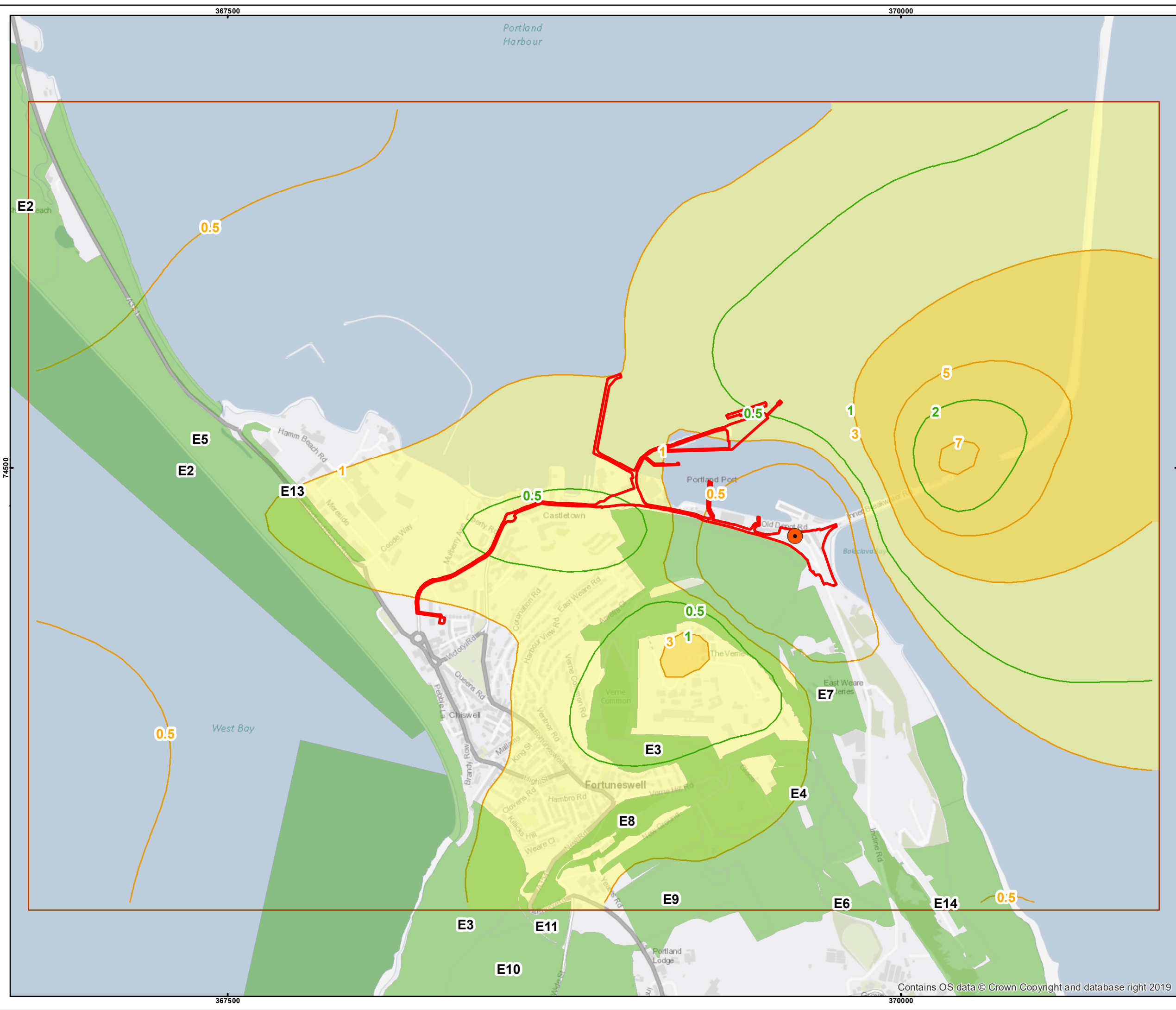
Figure 14 - Annual Mean Sulphur Dioxide Analysis

Drawn by:	Hannah Lederer	Date:	07/08/2020
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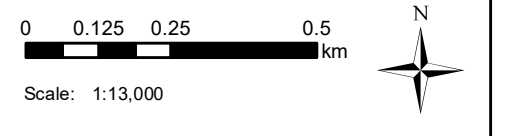
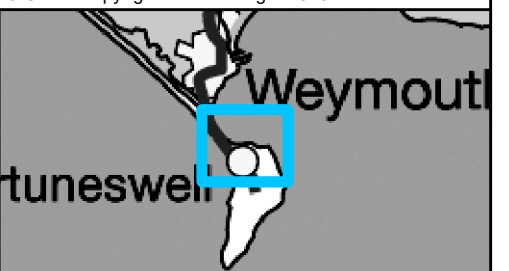
Legend

- Stack
- Site Boundary
- Modelling Domain
- Ecological Sites
- PC of NH3 (as a % of critical level 1 ug/m3 (lichen sensitive))
- PC of NH3 (as a % of critical level 3 ug/m3)
- <1 % of critical level 1 ug/m3
- >1 % of critical level 1 ug/m3
- <1 % of critical level 3 ug/m3
- >1 % of critical level 3 ug/m3

Client:	Powerful Ltd
Site:	Portland EfW
Project:	2953
Title:	

Figure 14 - Annual Mean Ammonia Analysis

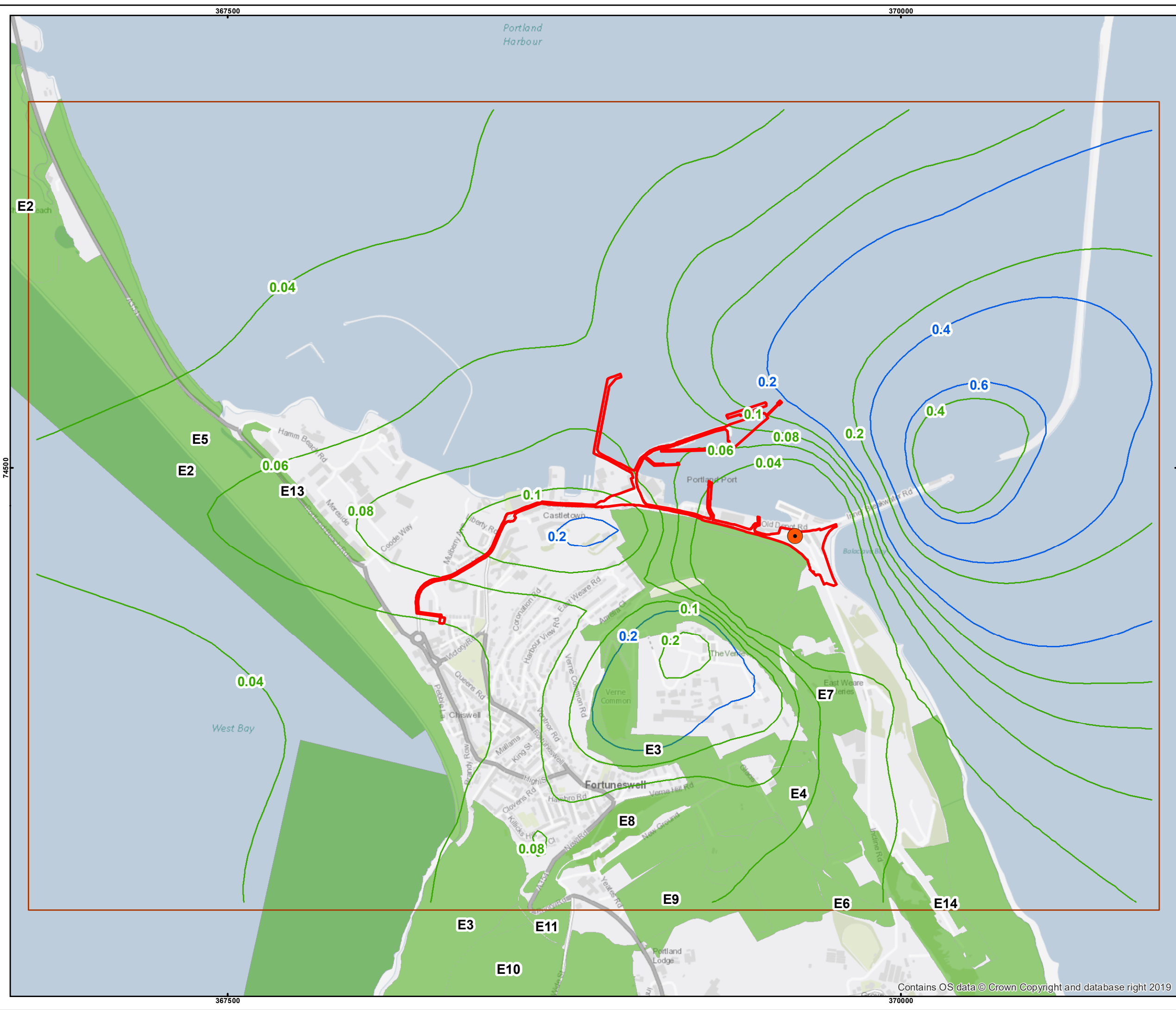
Drawn by: Hannah Lederer Date: 07/08/2020
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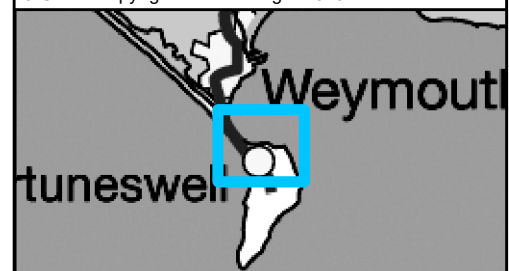


- Legend**
- Stack
 - Site Boundary
 - Modelling Domain
 - Ecological Sites
 - PC of Nitrogen Deposition - Grasslands (kgN/ha/yr)
 - PC of Nitrogen Deposition - Woodlands (kgN/ha/yr)

Client:	Powerfuel Ltd
Site:	Portland EfW
Project:	2953
Title:	

Figure 18 - Nitrogen Deposition Analysis

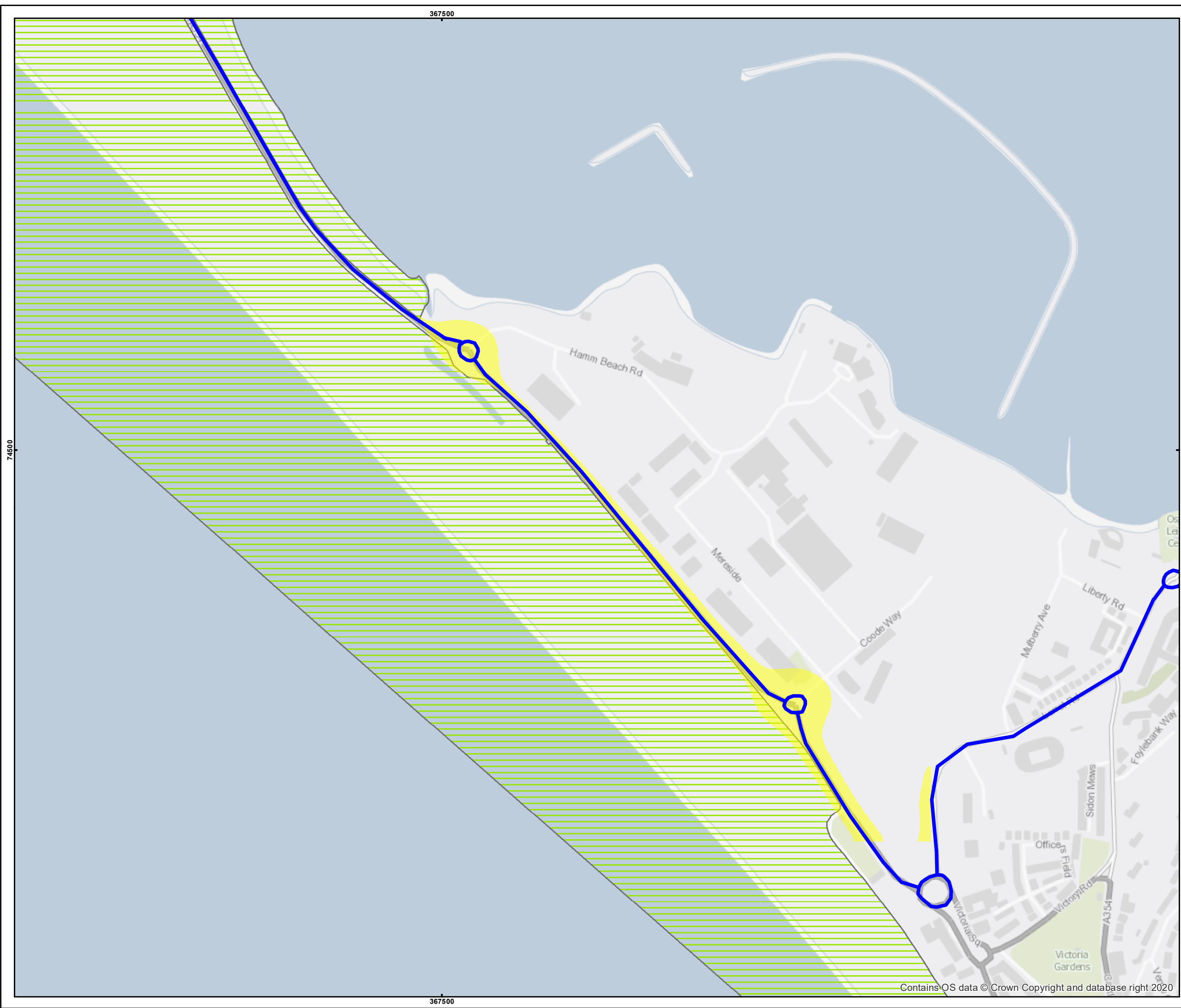
Drawn by:	Hannah Lederer	Date:	07/08/2020
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Legend

- ADMS Road Source

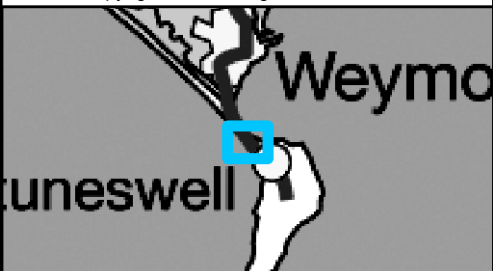
Proposed Development Impact as % of CL

- <1%
- >1%
- SAC

Client:	Powerfuel Ltd
Site:	2953 - Portland ERF
Project:	2953 - Portland ERF
Title:	

Figure 19
Annual Mean NOx -
Proposed Development

Drawn by: RSF Date: 23/12/2020



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Table 6: Detailed Transect Results – Annual Mean N Deposition – Chesil Beach

Distance from Road	Do Nothing (kgN/ha/yr)	Do Minimum (kgN/ha/yr)	Proposed Development Road Contribution (kgN/ha/yr)	Proposed Development Process Emissions Contribution (kgN/ha/yr)	Total Impact (kgN/ha/yr)	Cumulative Impact (kgN/ha/yr)
2	17.83	18.24	0.05	0.07	0.12	0.53
3	16.67	17.03	0.05	0.07	0.12	0.48
4	15.79	16.11	0.04	0.07	0.11	0.43
5	15.10	15.39	0.04	0.07	0.11	0.40
6	14.53	14.80	0.04	0.07	0.11	0.37
7	14.06	14.30	0.03	0.07	0.10	0.35
8	13.65	13.88	0.03	0.07	0.10	0.33
9	13.30	13.52	0.03	0.07	0.10	0.31
10	13.00	13.21	0.03	0.07	0.10	0.30
15	11.93	12.09	0.02	0.07	0.09	0.25
20	11.29	11.41	0.02	0.07	0.09	0.22
25	10.85	10.96	0.02	0.07	0.09	0.20
30	10.53	10.63	0.01	0.07	0.09	0.18
35	10.30	10.38	0.01	0.07	0.08	0.17
40	10.11	10.19	0.01	0.07	0.08	0.16
45	9.96	10.03	0.01	0.07	0.08	0.15
50	9.83	9.90	0.01	0.07	0.08	0.14
60	9.64	9.69	0.01	0.07	0.08	0.13
70	9.50	9.54	0.01	0.07	0.08	0.12
80	9.38	9.42	0.01	0.07	0.08	0.12
90	9.29	9.33	0.01	0.07	0.08	0.12
100	9.22	9.25	0.01	0.07	0.08	0.11
120	9.10	9.13	0.01	0.07	0.07	0.10
140	9.01	9.04	<0.01	0.07	0.07	0.10
160	8.95	8.97	<0.01	0.07	0.07	0.09
180	8.90	8.91	<0.01	0.07	0.07	0.09
200	8.85	8.87	<0.01	0.07	0.07	0.09

Notes:
Do Nothing and Do Minimum concentration includes background contribution of 8.480 kgN/ha/yr