DO NOT SCALE

Millimetres 0 10 100

FOR CONTINUATION SEE NE05_001-ATK-GEN-SWMWREC-DR-CD-000010

FOR CONTINUATION SEE NE05_001-ATK-GEN-SWMWREC-DR-CD-000012

GABION BASKETS 12m LONG x 1m HIGH

SIGNAL BOX

SW MH21A 650 x 650 ACCESS SHAFT TO BOX CULVERT

GALVANISED STEEL PALISADE DOUBLE-LEAF GATE TO REPLACE SECTION OF EXISTING PALISADE FENCING, WITH DOUBLE ACCESS LOCK (NR/NPT SHARED ACCESS). NETWORK RAIL STANDARD NR/OTK/SD/AFP/112

SW MH21

NEW SUB-BASE ACCESS ROAD FOR MAINTENANCE

SWANSEA - LONDON RAIL LINE

APPROX. 25m OF CARRIER DRAIN TO DISCHARGE TO SW MH21

PROPOSED 1750 x 1000 BOX CULVERT

SW MH21B 650 x 650 ACCESS SHAFT TO BOX CULVERT

PROPOSED GROUND RAISING OVER CULVERT

EXISTING WATERCOURSE TO BE TERMINATED WITH GROUND RAISING EMBANKMENT

SEE DETAILS ON DRAWING NE05_001-ATK-GEN-SWMWREC-DR-CD-000070

A 000011

PROPOSED ALTHON H3C PRECAST HEADWALL UNIT (OSA) WITH 300 Ø PIPE TO INTERCEPT FLOWS FROM WATERCOURSE INTO NEW CULVERT SYSTEM

SEE DETAILS ON DRAWING NE05_001-ATK-GEN-SWMWREC=DR-CD-000072

APPROX. 43.3m OF TYPE H FILTER DRAIN REFER TO SHW DIAGRAM F2 FOR DETAILS

A 000011

SW MH20

300 Ø FLAP VALVE IN MH20

EXISTING WATERCOURSE TO RECEIVE OVERLAND FLOWS FROM ADJACENT PROPERTIES TO MAINTAIN BIODVERSITY VALUE

FOUL MH CL. 5.285 IL. 3.435

FOUL MH CL. 5.224 IL. 3.344

NEW FOUL MH ON EXISTING LINE IL. 3.450

ROUTE THROUGH LANE AND ROUTE OF EXISTING WATERCOURSE

TWIN CELL 1250 x 750 BOX CULVERTS

400 TYPE 1 GSB BACKFILL AROUND NEW PIPE WITH 200 RC SLAB ACROSS EXTENT OF THE WHOLE OF THE LANE

SW MH18

EXISTING WATERCOURSE AND HEADWALL TO BE REMOVED AND INFILLED

LOCKED PALISADE DOUBLE GATES AT BOTH ENDS. GATED 2.4m HIGH AND 4.5m WIDE

600mm THICK EXISTING REINFORCED CONCRETE COVER SLAB

PROPOSED PAM INTEGRAL DUCTILE IRON PIPE DN250 FOUL SEWER CROSSING REFER TO DRAWING NE05_001-ATK-GEN-SWMWREC-DR-CD-000140

SW MH19

NEW FOUL MH ON EXISTING LINE IL. 3.465

PROPOSED GROUND RAISING OVER CULVERT TO EXTEND TO REAR BOUNDARY OF ADJACENT PROPERTIES

PROPOSED 1750 x 1000 BOX CULVERT

FOUL MH CL. 5.298 IL. 3.538

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction
- Requirement for services diversions in advance of works to install new culvert
- Potential for encountering unplotted services or private underground services
- access to be maintained to residential and commercial properties
- Presence of asbestos containing materials at Carreg Hir
- Presence of contaminated soils in areas of former industrial use (land at Penrhiwtin)
- Maintaining of existing surface water flows
- Sudden increase in flows

Maintenance / Cleaning
- Trash screen will require regular inspection and clearance
- Trash screen and outfall to be inspected after storm events
- Attenuation tanks to be cleaned by high flow jetting
- Silt/rock traps to be emptied to prevent culvert blockage

Use
- Trash screen will require regular inspection and clearance
- Trash screen and outfall to be inspected after storm events
- Attenuation tanks to be cleaned by high flow jetting
- Silt/rock traps to be emptied to prevent culvert blockage

Decommissioning / Demolition
- Requirement for services diversions in advance of works to install new culvert
- Potential for encountering unplotted services or private underground services
- access to be maintained to residential and commercial properties
- Presence of asbestos containing materials at Carreg Hir
- Presence of contaminated soils in areas of former industrial use (land at Penrhiwtin)
- Maintaining of existing surface water flows
- Sudden increase in flows

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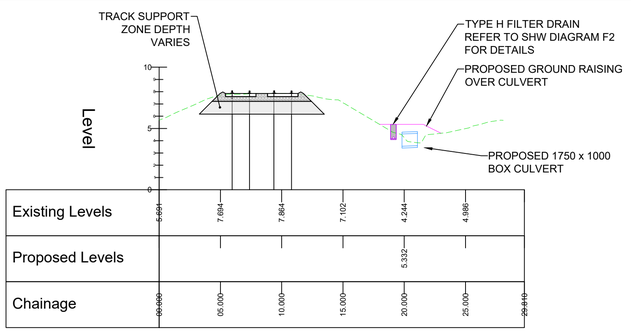
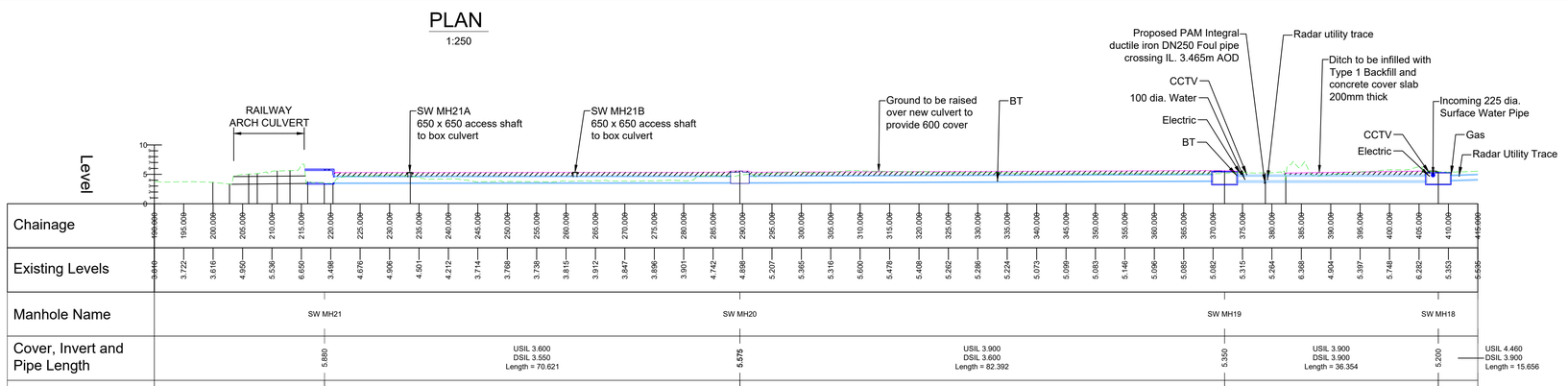


A 000011 TYPICAL CROSS SECTION
1:250

PLAN
1:250



CULVERT LONG SECTION (SW MH 21 - SW MH 18)
1:500

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM UNLESS OTHERWISE NOTED.

SERVICES LEGEND

- Neath Port Talbot Borough Council - Drainage
- Neath Port Talbot Borough Council - Gully
- Neath Port Talbot Borough Council - Street Light
- Neath Port Talbot Borough Council - Street Lighting
- Neath Port Talbot Borough Council - Electric Street Furniture
- Dwr Cymru Welsh Water - Sewerage
- Dwr Cymru Welsh Water - Water
- Openreach - British Telecommunications
- Openreach - British Telecommunications - Overhead
- Virgin Media
- Vodafone
- Wales and West Utilities
- GTC
- Western Power Distribution
- Western Power Distribution - Overhead
- Western Power Distribution - Substation
- Radar Trace
- Ysgol Carreg Hir Surface Water - Drainage
- Ysgol Carreg Hir Surface Water - Filter Drain
- Ysgol Carreg Hir Foul Sewer
- Network Rail asset

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
For Planning	S6	P01	DJW	RC	RAM	---	26/05/26

Drawing Suitability: FOR PLANNING
Status: S6

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Client: NEATH PORT TALBOT COUNTY BOROUGH COUNCIL

Project Title: GRANDISON BROOK

Drawing Title: PLAN AND LONG SECTION SHEET 2

Drawing Number: Project NE05_001 - Originator ATK - Volume GEN - Location SWMWREC - Type DR - Role CD - Number 000011

Original Size: A1 | Scale: AS SHOWN | Project Ref. No: 5192793 | Sheet: 2 of 8 | Rev: P01

This Drawing is saved on ProjectWise. Plotted: 26/05/2026 13:21:13 By: WILL6981