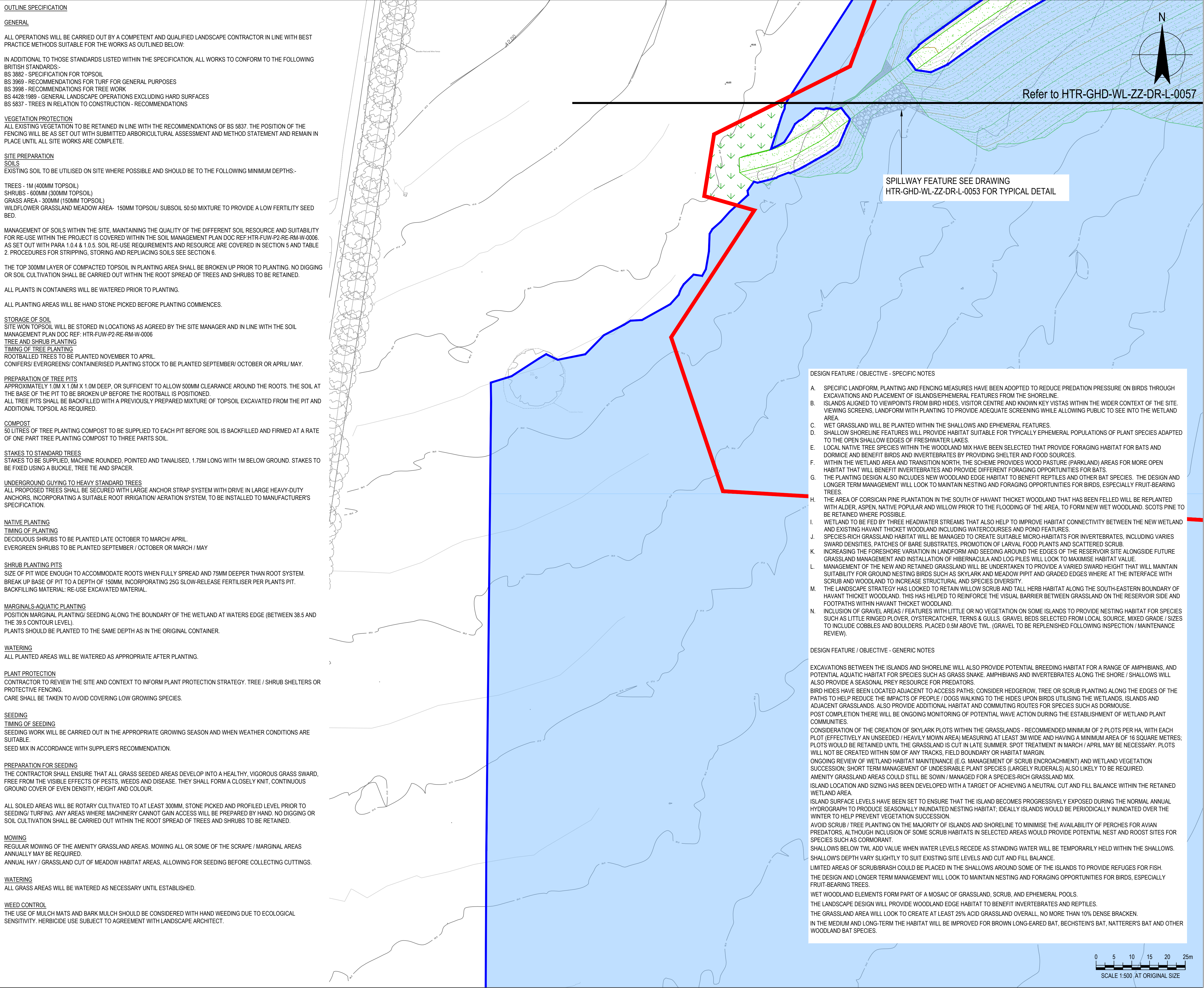




**OUTLINE SPECIFICATION**

**GENERAL**

ALL OPERATIONS WILL BE CARRIED OUT BY A COMPETENT AND QUALIFIED LANDSCAPE CONTRACTOR IN LINE WITH BEST PRACTICE METHODS SUITABLE FOR THE WORKS AS OUTLINED BELOW:

IN ADDITIONAL TO THOSE STANDARDS LISTED WITHIN THE SPECIFICATION, ALL WORKS TO CONFORM TO THE FOLLOWING BRITISH STANDARDS:-  
BS 3882 - SPECIFICATION FOR TOPSOIL  
BS 3969 - RECOMMENDATIONS FOR TURF FOR GENERAL PURPOSES  
BS 3998 - RECOMMENDATIONS FOR TREE WORK  
BS 4428:1989 - GENERAL LANDSCAPE OPERATIONS EXCLUDING HARD SURFACES  
BS 5837 - TREES IN RELATION TO CONSTRUCTION - RECOMMENDATIONS

**VEGETATION PROTECTION**  
ALL EXISTING VEGETATION TO BE RETAINED IN LINE WITH THE RECOMMENDATIONS OF BS 5837. THE POSITION OF THE FENCING WILL BE AS SET OUT WITH SUBMITTED ARBORICULTURAL ASSESSMENT AND METHOD STATEMENT AND REMAIN IN PLACE UNTIL ALL SITE WORKS ARE COMPLETE.

**SITE PREPARATION**  
**SOILS**  
EXISTING SOIL TO BE UTILISED ON SITE WHERE POSSIBLE AND SHOULD BE TO THE FOLLOWING MINIMUM DEPTHS:-

TREES - 1M (400MM TOPSOIL)  
SHRUBS - 600MM (300MM TOPSOIL)  
GRASS AREA - 300MM (150MM TOPSOIL)  
WILDFLOWER GRASSLAND MEADOW AREA- 150MM TOPSOIL/ SUBSOIL 50:50 MIXTURE TO PROVIDE A LOW FERTILITY SEED BED.

MANAGEMENT OF SOILS WITHIN THE SITE, MAINTAINING THE QUALITY OF THE DIFFERENT SOIL RESOURCE AND SUITABILITY FOR RE-USE WITHIN THE PROJECT IS COVERED WITHIN THE SOIL MANAGEMENT PLAN DOC REF:HTR-FUW-P2-RE-RM-W-0006. AS SET OUT WITH PARA 1.0.4 & 1.0.5. SOIL RE-USE REQUIREMENTS AND RESOURCE ARE COVERED IN SECTION 5 AND TABLE 2. PROCEDURES FOR STRIPPING, STORING AND REPLACING SOILS SEE SECTION 6.

THE TOP 300MM LAYER OF COMPACTED TOPSOIL IN PLANTING AREA SHALL BE BROKEN UP PRIOR TO PLANTING. NO DIGGING OR SOIL CULTIVATION SHALL BE CARRIED OUT WITHIN THE ROOT SPREAD OF TREES AND SHRUBS TO BE RETAINED.

ALL PLANTS IN CONTAINERS WILL BE WATERED PRIOR TO PLANTING.

ALL PLANTING AREAS WILL BE HAND STONE PICKED BEFORE PLANTING COMMENCES.

**STORAGE OF SOIL**  
SITE WON TOPSOIL WILL BE STORED IN LOCATIONS AS AGREED BY THE SITE MANAGER AND IN LINE WITH THE SOIL MANAGEMENT PLAN DOC REF: HTR-FUW-P2-RE-RM-W-0006

**TREE AND SHRUB PLANTING**  
**TIMING OF TREE PLANTING**  
ROOTBALLED TREES TO BE PLANTED NOVEMBER TO APRIL.  
CONIFERS/ EVERGREENS/ CONTAINERISED PLANTING STOCK TO BE PLANTED SEPTEMBER/ OCTOBER OR APRIL/ MAY.

**PREPARATION OF TREE PITS**  
APPROXIMATELY 1.0M X 1.0M X 1.0M DEEP, OR SUFFICIENT TO ALLOW 500MM CLEARANCE AROUND THE ROOTS. THE SOIL AT THE BASE OF THE PIT TO BE BROKEN UP BEFORE THE ROOTBALL IS POSITIONED.  
ALL TREE PITS SHALL BE BACKFILLED WITH A PREVIOUSLY PREPARED MIXTURE OF TOPSOIL EXCAVATED FROM THE PIT AND ADDITIONAL TOPSOIL AS REQUIRED.

**COMPOST**  
50 LITRES OF TREE PLANTING COMPOST TO BE SUPPLIED TO EACH PIT BEFORE SOIL IS BACKFILLED AND FIRMED AT A RATE OF ONE PART TREE PLANTING COMPOST TO THREE PARTS SOIL.

**STAKES TO STANDARD TREES**  
STAKES TO BE SUPPLIED, MACHINE ROUNDED, POINTED AND TANALISED, 1.75M LONG WITH 1M BELOW GROUND. STAKES TO BE FIXED USING A BUCKLE, TREE TIE AND SPACER.

**UNDERGROUND GUYING TO HEAVY STANDARD TREES**  
ALL PROPOSED TREES SHALL BE SECURED WITH LARGE ANCHOR STRAP SYSTEM WITH DRIVE IN LARGE HEAVY-DUTY ANCHORS, INCORPORATING A SUITABLE ROOT IRRIGATION/ AERATION SYSTEM, TO BE INSTALLED TO MANUFACTURER'S SPECIFICATION.

**NATIVE PLANTING**  
**TIMING OF PLANTING**  
DECIDUOUS SHRUBS TO BE PLANTED LATE OCTOBER TO MARCH/ APRIL.  
EVERGREEN SHRUBS TO BE PLANTED SEPTEMBER / OCTOBER OR MARCH / MAY

**SHRUB PLANTING PITS**  
SIZE OF PIT WIDE ENOUGH TO ACCOMMODATE ROOTS WHEN FULLY SPREAD AND 75MM DEEPER THAN ROOT SYSTEM.  
BREAK UP BASE OF PIT TO A DEPTH OF 150MM, INCORPORATING 25G SLOW-RELEASE FERTILISER PER PLANTS PIT.  
BACKFILLING MATERIAL: RE-USE EXCAVATED MATERIAL.

**MARGINALS-AQUATIC PLANTING**  
POSITION MARGINAL PLANTING/ SEEDING ALONG THE BOUNDARY OF THE WETLAND AT WATERS EDGE (BETWEEN 38.5 AND THE 39.5 CONTOUR LEVEL).  
PLANTS SHOULD BE PLANTED TO THE SAME DEPTH AS IN THE ORIGINAL CONTAINER.

**WATERING**  
ALL PLANTED AREAS WILL BE WATERED AS APPROPRIATE AFTER PLANTING.

**PLANT PROTECTION**  
CONTRACTOR TO REVIEW THE SITE AND CONTEXT TO INFORM PLANT PROTECTION STRATEGY. TREE / SHRUB SHELTERS OR PROTECTIVE FENCING.  
CARE SHALL BE TAKEN TO AVOID COVERING LOW GROWING SPECIES.

**SEEDING**  
**TIMING OF SEEDING**  
SEEDING WORK WILL BE CARRIED OUT IN THE APPROPRIATE GROWING SEASON AND WHEN WEATHER CONDITIONS ARE SUITABLE.  
SEED MIX IN ACCORDANCE WITH SUPPLIER'S RECOMMENDATION.

**PREPARATION FOR SEEDING**  
THE CONTRACTOR SHALL ENSURE THAT ALL GRASS SEEDED AREAS DEVELOP INTO A HEALTHY, VIGOROUS GRASS SWARD, FREE FROM THE VISIBLE EFFECTS OF PESTS, WEEDS AND DISEASE. THEY SHALL FORM A CLOSELY KNIT, CONTINUOUS GROUND COVER OF EVEN DENSITY, HEIGHT AND COLOUR.

ALL SOILED AREAS WILL BE ROTARY CULTIVATED TO AT LEAST 300MM, STONE PICKED AND PROFILED LEVEL PRIOR TO SEEDING/ TURFING. ANY AREAS WHERE MACHINERY CANNOT GAIN ACCESS WILL BE PREPARED BY HAND. NO DIGGING OR SOIL CULTIVATION SHALL BE CARRIED OUT WITHIN THE ROOT SPREAD OF TREES AND SHRUBS TO BE RETAINED.

**MOWING**  
REGULAR MOWING OF THE AMENITY GRASSLAND AREAS. MOWING ALL OR SOME OF THE SCRAPE / MARGINAL AREAS ANNUALLY MAY BE REQUIRED.  
ANNUAL HAY / GRASSLAND CUT OF MEADOW HABITAT AREAS, ALLOWING FOR SEEDING BEFORE COLLECTING CUTTINGS.

**WATERING**  
ALL GRASS AREAS WILL BE WATERED AS NECESSARY UNTIL ESTABLISHED.

**WEED CONTROL**  
THE USE OF MULCH MATS AND BARK MULCH SHOULD BE CONSIDERED WITH HAND WEEDING DUE TO ECOLOGICAL SENSITIVITY. HERBICIDE USE SUBJECT TO AGREEMENT WITH LANDSCAPE ARCHITECT.

**NOTES**

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE (UNO).
- ALL LEVELS ARE IN METRES TO ORDNANCE DATUM UNO.
- BIRD HIDE / INTERPRETATION BUILDING LOCATIONS SHOWN INDICATIVELY. DETAILS OF BIRD HIDE / INTERPRETATION BUILDINGS TO BE SUBJECT TO SEPARATE RESERVED MATTERS APPLICATION AS PART OF THE VISITOR CENTRE PHASE TO ENSURE CONSISTENCY OF DESIGN.
- THE DETAILS OF HARD AND SOFT LANDSCAPING AS SHOWN ON THIS PLAN ARE SUBMITTED FOR RESERVED MATTERS APPROVAL. THE DETAILED PLANTING MIX, HARD LANDSCAPING MATERIALS SPECIFICATION AND THE DETAILED MANAGEMENT AND MAINTENANCE PROPOSALS FOR THE HARD AND SOFT LANDSCAPING WILL BE SUBMITTED SUBSEQUENTLY FOR THE DISCHARGE OF CONDITION 28. WHERE THOSE DETAILS ARE DESCRIBED ON THESE PLANS THIS IS TO AID THE UNDERSTANDING OF THE RESERVED MATTERS PROPOSALS. THE DETAILS TO BE SUBMITTED UNDER CONDITION 28 WILL ACCORD WITH THAT SHOWN ON THESE PLANS UNLESS OTHERWISE AGREED BY THE LPAS.

**Key**

39.5 contour - top water level for main reservoir

Existing

Proposed

Vegetation to be retained

Woodland

Wet woodland

Scrub mix

Wildflower seeding - EM5

Wet and Water Edge Mix - Barenbrug

Design feature / objective (refer to sheet 1)

RMA Application Boundary

Vehicle access / permissive path

Islands

Raised landform

Ephemeral shallow

Gate

Stockproof fence

Bird hide

**REFERENCE DOCUMENTS AND DRAWINGS**

|                                                                                                           |  |
|-----------------------------------------------------------------------------------------------------------|--|
| HTR-GHD-WL-ZZ-DR-L-0012 - WETLANDS RETAINING STRUCTURE, OVERALL DESIGN STRATEGY                           |  |
| HTR-GHD-WL-ZZ-DR-L-0050 - WETLANDS RETAINING STRUCTURE, LANDSCAPE AND ECOLOGY PROPOSALS                   |  |
| HTR-GHD-WL-ZZ-DR-L-0051 - WETLANDS RETAINING STRUCTURE, ACTIVE WATER CONTROL FEATURE - PENSTOCK DETAIL    |  |
| HTR-GHD-WL-ZZ-DR-L-0052-55 - WETLANDS RETAINING STRUCTURE, SPILLWAY ARRANGEMENTS                          |  |
| HTR-GHD-WL-ZZ-DR-S-0062-65 - WETLANDS RETAINING STRUCTURE, ACTIVE WATER CONTROL PENSTOCK CHAMBER DETAILS. |  |

|          |                   |         |                |            |
|----------|-------------------|---------|----------------|------------|
| P08      | CLIENT COMMENTS   | SWG     | SWG            | 02/05/2024 |
| P07      | CLIENT COMMENTS   | SWG     | SWG            | 06/03/2024 |
| P06      | CLIENT COMMENTS   | SWG     | SWG            | 06/12/2023 |
| P05      | FOR APPROVAL      | SWG     | SWG            | 29/11/2023 |
| P04      | FOR COMMENTS      | SWG     | SWG            | 29/11/2023 |
| P03      | FOR COMMENTS      | SWG     | SWG            | 23/11/2023 |
| P02      | CLIENT AMENDMENTS | SWG     | SWG            | 07/11/2023 |
| P01      | INITIAL ISSUE     | SWG     | SWG            | 30/08/2023 |
| Rev      | Description       | Checked | Approved       | Date       |
| Author   | ST                |         | Drafting Check | SWG        |
| Designer | SWG               |         | Design Check   | SWG        |

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**Portsmouth Water**

**Future Water**  
MJJV Ltd

**GHD**

Project No.  
12547181

Client **PORTSMOUTH WATER**

Project **HAVANT THICKET RESERVOIR**

Status **FOR APPROVAL**

Status Code **S4**

Drawing Title **WETLANDS RETAINING STRUCTURE - LANDSCAPE GENERAL ARRANGEMENT SHEET 1 OF 6**

Size **A1**

HTR-GHD-WL-ZZ-DR-L-0056

Drawing No. **HTR-GHD-WL-ZZ-DR-L-0056**

Rev **P08**

Plot Date: 2 May 2024 - 5:29 PM

Plotted by: Lewis Stevenson

File Name: C:\Users\l Stevenson\DC\ACCDocs\GHD Services Pty Ltd\12547181 - Havant Thicket Reservoir\Project Data & Docs\WIP (S0)\GHD Engineers\Wetlands & Landscaping (10)\Drawings\HTR-GHD-WL-ZZ-DR-L-0056.dwg