OUTLINE SPECIFICATION

SOFTWORKS
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

ALL PLANTING SHALL COMPLY WITH THE SPECIFICATION AND THE RELEVANT PARTS OF BS 3936 AND SHALL BE THE HEIGHT, DENSITY, SPREAD AS DETAILED.
DOCUMENTARY EVIDENCE OF THE USE OF PEAT FREE SOIL MATERIALS MUST BE SUPPLIED FROM NURSERY GROWERS AND SUPPLIERS FOR PLANTS THAT ARE NOT SOIL GROWN. ORGANIC COMPOSTED MATERIAL MUST BE GRADED 25MM AND FREE FROM BIODEGRADABLE MATERIAL.

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 & ORNAMENTAL PLANTING - 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 REPLIACING 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.

TUBES TO ALL TREES
ALL TREES TO BE PLANTED IN ATLEAST 1.5M HIGH TUBES.

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

SHRUBS AND ORNAMENTAL 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.
DO NOT INCLUDE PLANTING SPECIES THAT ARE POISONOUS. ANY CHANGE IN SPECIES AS SPECIFIED SHOULD BE AGREED WITH A LANDSCAPE ARCHITECT.

NATIVE HEDGEROW PLANTING
PLANTED AT 6 PER LINEAR METRE, 300MM CENTRES AT 500MM ROWS APART. TRANSPLANTS TO INCLUDE SHELTERS, STAKES AND TIES. WEEDS TO BE CONTROLLED USING MULCHED MATS.

FORMAL HEDGEROW PLANTING
PLANTED AT 6 PER LINEAR METRE, 300MM CENTRES AT 500MM ROWS APART. TRANSPLANTS TO INCLUDE SHELTERS, STAKES AND TIES. WEEDS TO BE CONTROLLED USING MULCHED MATS.
FORMAL HEDGEROW TO BE REGULARLY CLIPPED AT THE REQUIRED HEIGHT.

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.
ORNAMENTAL PLANTING BEDS TO INCLUDE RABBIT GUARDS.
TREES STAKED AND SHELTERS INCLUDED ON ALL TREES AND HEDGEROW PLANTING.
CARE SHALL BE TAKEN TO AVOID COVERING LOW GROWING SPECIES.

SEEDING
A 1.5M WIDE GRASS STRIP SHOULD BE BETWEEN THE OPERATIONS AND MAINTENANCE TRACK AND THE EMBANKMENT TOE, TO ALLOW SURVEILLANCE FOR SEEPAGE. ALL LANDSCAPE WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAYS WORKS (SHW) (0300, 1100 AND 3000 SERIES).

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 MARGINAL AREAS ANNUALLY MAY BE REQUIRED.
ANNUAL HAY / GRASSLAND CUT OF MEADOW HABITAT AREAS, ALLOWING FOR SEEDING BEFORE COLLECTING CUTTINGS.
THE DOWNSLOPE OF THE EMBANKMENT SHALL BE SEEDED WITH WILDFLOWER AND CUT TO 100MM.

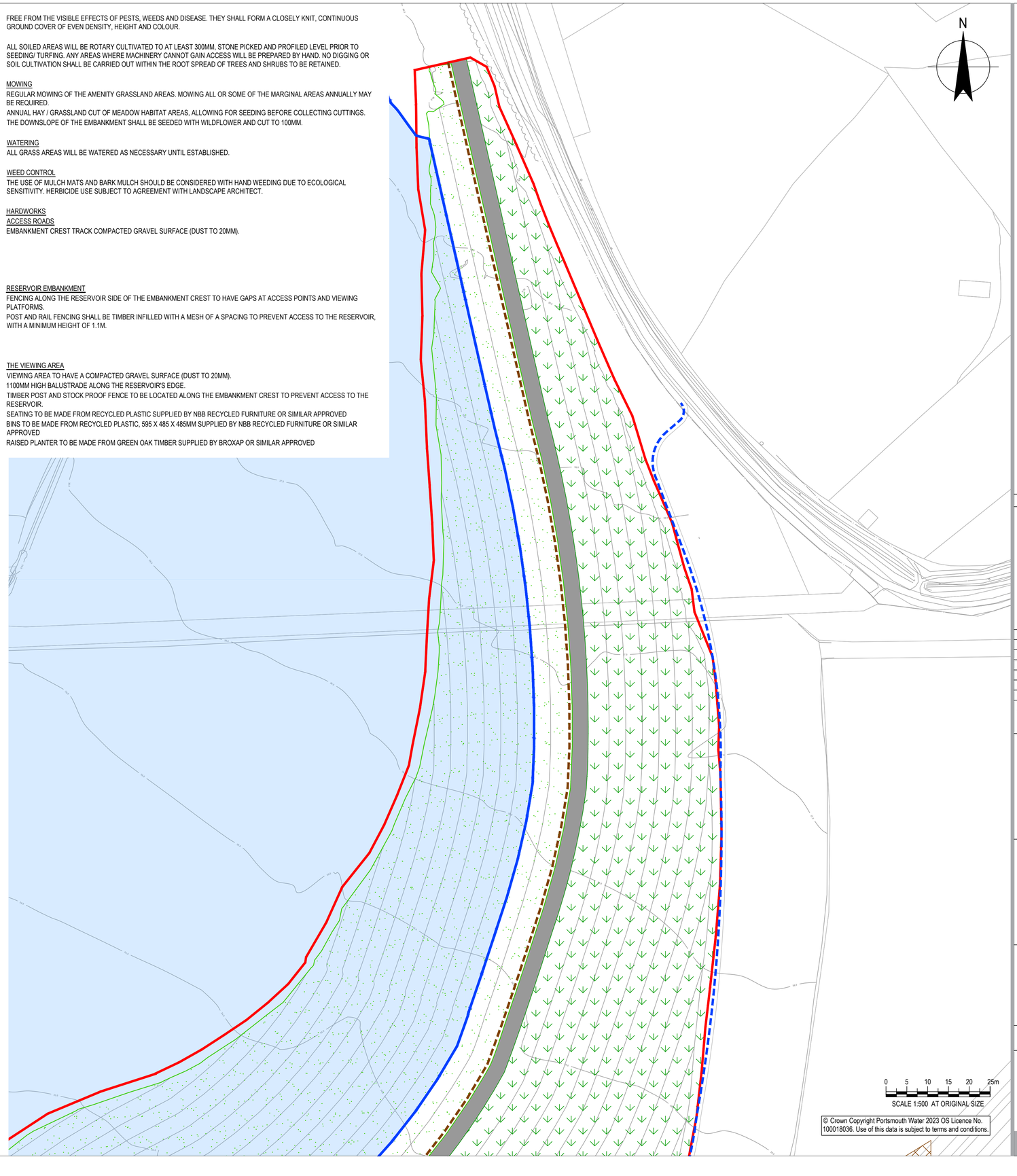
WATERING
ALL GRASS AREAS WILL BE WATERED AS NECESSARY UNTIL ESTABLISHED.

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.

HARDWORKS
ACCESS ROADS
EMBANKMENT CREST TRACK COMPACTED GRAVEL SURFACE (DUST TO 20MM).

RESERVOIR EMBANKMENT
FENCING ALONG THE RESERVOIR SIDE OF THE EMBANKMENT CREST TO HAVE GAPS AT ACCESS POINTS AND VIEWING PLATFORMS.
POST AND RAIL FENCING SHALL BE TIMBER INFILLED WITH A MESH OF A SPACING TO PREVENT ACCESS TO THE RESERVOIR, WITH A MINIMUM HEIGHT OF 1.1M.

THE VIEWING AREA
VIEWING AREA TO HAVE A COMPACTED GRAVEL SURFACE (DUST TO 20MM).
1100MM HIGH BALUSTRADE ALONG THE RESERVOIR'S EDGE.
TIMBER POST AND STOCK PROOF FENCE TO BE LOCATED ALONG THE EMBANKMENT CREST TO PREVENT ACCESS TO THE RESERVOIR.
SEATING TO BE MADE FROM RECYCLED PLASTIC SUPPLIED BY NBB RECYCLED FURNITURE OR SIMILAR APPROVED
BINS TO BE MADE FROM RECYCLED PLASTIC, 595 X 485 X 485MM SUPPLIED BY NBB RECYCLED FURNITURE OR SIMILAR APPROVED
RAISED PLANTER TO BE MADE FROM GREEN OAK TIMBER SUPPLIED BY BROXAP OR SIMILAR APPROVED



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NOTES

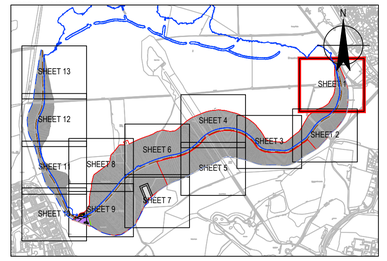
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE (UNO).
2. ALL LEVELS ARE IN METRES TO ORDNANCE DATUM UNO.
3. TWL = TOP OF WATER LEVEL

Key
- RMA Application boundary
- 39.5 contour - top water level for main reservoir

Existing
- Vegetation

Proposed
- Specimen Trees
- Ornamental Planting Mix
- Formal Hedgerow
- Rush & Sedge Planting
- Wildflower Seeding Mix EM5
- Wet and Water Edge Mix
- Grass Ampitheatre with Timber Edge Seating
- Crest footpath
- Bins
- Benches
- Raised Timber Planter
- Balustrade
- Stockproof Fencing
- Timber Post and Rail Fencing

Atlas - Not to scale



REFERENCE DOCUMENTS AND DRAWINGS

PLEASE REFER TO THE BELOW DRAWINGS:
HTR-GHD-WL-ZZ-DR-T-0023-0034 MAIN EMBANKMENT LANDSCAPE HARDWORKS AND SOFTWORKS
HTR-GHD-WL-ZZ-DR-T-0035 VIEWING PLATFORM GENERAL ARRANGEMENT PLAN
HTR-GHD-WL-ZZ-DR-T-0038-0039 CONSTRUCTION DETAILS

Rev	Description	Checked	Approved	Date
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Portsmouth Water

Future Water MJJV Ltd

GHD

Project No. 12547181

Client PORTSMOUTH WATER

Project HAVANT THICKET RESERVOIR

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Drawing Title MAIN EMBANKMENT LANDSCAPE HARDWORKS AND SOFTWORKS SHEET 1 OF 13

Size A1

Drawing No. HTR-GHD-ZZ-ZZ-DR-T-0022

Rev P02