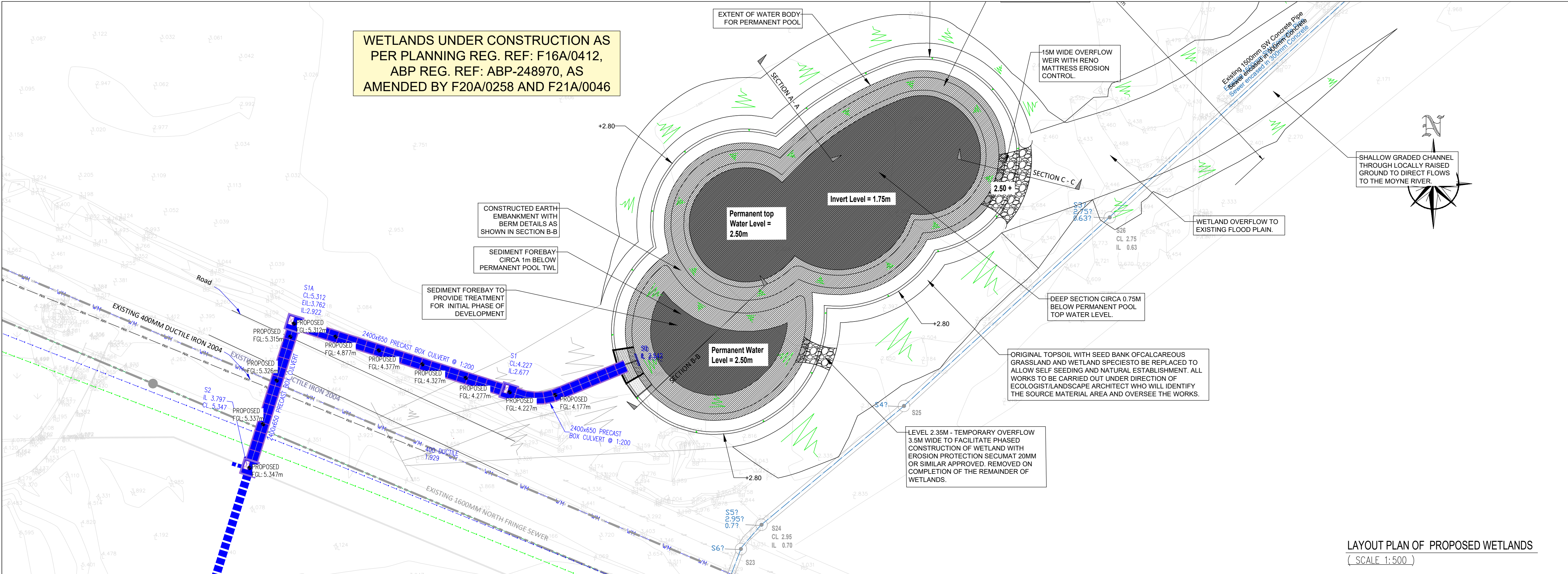


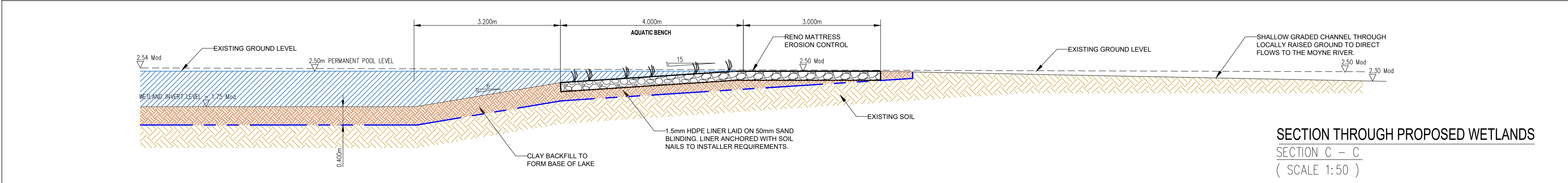
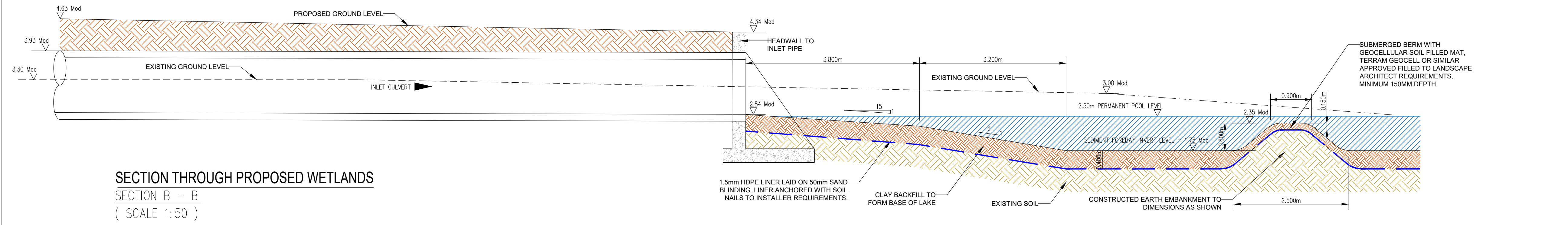
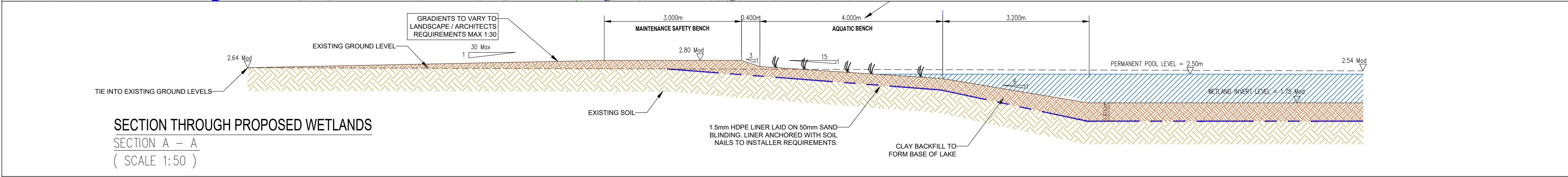


DESIGN NOTES:

- PROPOSED WETLANDS DESIGNED FOR TREATMENT VOLUME (Vt) IN ACCORDANCE WITH FINGAL COUNTY COUNCIL 'BALDOYLE STAPOLIN LOCAL AREA PLAN SUDS STRATEGY' (APPENDIX 1 SECTION 4). FULL ATTENUATION IS NOT REQUIRED AND EXCESS STORM WATER WILL OVERFLOW ONTO THE FLOOD PLAIN IN ACCORDANCE WITH THE LAP SUDS STRATEGY.
- CATCHMENT AREA SERVED BY PROPOSED WETLANDS COMPRISING OF GROWTH AREAS 1, 2 AND 3 = 22.3 HECTARES APPROXIMATELY.
- TREATMENT VOLUME (Vt) REQUIRED FOR GROWTH AREA 1 = 5.312 Has (IMPERMEABLE RUNOFF) x 15mm RAINFALL = 797m³ VOLUME.
Vt/Has FOR GROWTH AREA 1 = 797/ 11.47 Has = 69.5m³/Ha.
GROWTH AREAS 2 AND 3 = 4.33 + 6.53 = 10.86 Has (APPROXIMATELY). ESTIMATED TREATMENT VOLUME FOR GROWTH AREAS 2 AND 3 = 10.86 Has x 69.5m³ = 755.0m³.
TOTAL TREATMENT VOLUME Vt FOR GROWTH AREAS 1, 2 AND 3 = 797m³ + 755 = 1552m³. WETLAND VOLUME TO BE APPROXIMATELY 1860m³ AS GRANTED UNDER PLANNING PERMISSION REF NO. F16A/0412 (FINGAL COUNTY COUNCIL).
- INFILTRATION VOLUME REQUIRED FOR PROPOSED DEVELOPMENT = 5.312 (IMPERMEABLE RUNOFF) x 80% x 5mm RAINFALL DEPTH = 212.5 m³ VOLUME.
- PROPOSED WETLAND FOOTPRINT = 7.600m² (INCL' EARTHWORKS).
- PROPOSED WETLAND DIMENSIONS = Circa 110m x 60m.
- FIRST PHASE SEDIMENT FOREBAY VOLUME = 310m³. WHEN TEMPORARY WEIR IS SEALED OFF AFTER COMPLETION OF FIRST PHASE, CAPACITY OF SEDIMENT FOREBAY WILL BE 370m³.
- REMAINING PHASES WETLAND VOLUME = 1490m³.
- TOTAL TREATMENT VOLUME PROVIDED = Circa 1860m³.
- PLAN AREA OF PERMANENT POOL = 3.523m².
- OVERSPILL VOLUME FROM GROWTH AREA FOR THE 100 YEAR STORM = 3,500m³.
- ALL WORKS TO BE CARRIED OUT UNDER DIRECTION AND SUPERVISION OF ECOLOGIST / LANDSCAPE ARCHITECT WHO WILL IDENTIFY SOURCE MATERIAL AREA AND OVERSEE THE WORKS.
- CONSTRUCTION WORKS TO BE CARRIED OUT IN 2 PHASES. THE FIRST PHASE OF THE WETLANDS WILL COMPRISE OF THE 290m³ SEDIMENT FOREBAY TO SERVICE THE FIRST PHASE HOUSING DEVELOPMENT IN ACCORDANCE WITH PLANNING CONDITIONS. AFTER COMPLETION OF THE FIRST PHASE HOUSING DEVELOPMENT, THE TEMPORARY OVERFLOW WILL BE SEALED OFF. THE SECOND PHASE WILL COMPRISE CONSTRUCTION OF THE REMAINDER OF THE 1510m³ WETLANDS AS SHOWN.

CONSTRUCTION NOTES:

- SETTING OUT AND CO-ORDINATION OF SERVICE POP UPS AND DRAINAGE LOCATIONS TO BE CONFIRMED AND SET OUT BY M&E CONSULTANT AND ARCHITECT.
- CSC ARE NOT RESPONSIBLE FOR EITHER FOUL OR STORM WATER DRAINAGE ABOVE GROUND LEVEL.
- THE CONTRACTOR TO CONFIRM ALL INVERT LEVELS TO EXISTING DRAINAGE AND CONFIRM WITH THE ENGINEER PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORKS ON SITE.
- ALL DRAINAGE WORKS TO BE CONSTRUCTED IN STRICT ACCORDANCE WITH PART H OF THE BUILDING REGULATIONS AND FINGAL COUNTY COUNCIL SPECIFICATIONS/REQUIREMENTS.
- THE CONTRACTOR SHALL AIR TEST ALL PIPES UPON COMPLETION OF THE WORKS TO ENSURE THE INTEGRITY OF THE DRAINS.
- THE CONTRACTOR SHALL CONDUCT A CCTV SURVEY OF ALL DRAINS UPON COMPLETION OF THE WORKS TO ENSURE THE INTEGRITY OF THE DRAINS.
- BUILDING MATERIALS (BLOCKS ETC.) SHOULD NOT BE STOCKPILED ABOVE PIPES OR WATERMANS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL PIPES (PROPOSED AND EXISTING) DURING CONSTRUCTION. GIVEN THE TIGHT NATURE OF THIS SITE, THE CONSTRUCTION TRAFFIC MANAGEMENT PLAN SHOULD MAKE SPECIFIC REFERENCE TO THE PROTECTION MEASURES (CONCRETE ENCASEMENT AND STEEL PLATES ETC.) TO BE AFFORDED TO THE PIPES TO PROTECT THEM FROM OVERLOADING DUE TO DELIVERY TRUCKS OR OTHER HEAVY PLANT.
- THE CONTRACTOR SHOULD MAKE REFERENCE TO THE PREVIOUSLY COMPLETED UTILITIES SURVEY AND SITE INVESTIGATION REPORT FOR THE LOCATION OF KNOWN SERVICES ON SITE. HOWEVER, THE CONTRACTOR IS RESPONSIBLE FOR COMPLETING HIS OWN SURVEY AND DUE DILIGENCE PRIOR TO UNDERTAKING ANY EXCAVATIONS ON SITE.
- SOIL VENT PIPE'S SUBSTACKS AND RAINWATER LOCATIONS TO BE CONFIRMED BY ARCHITECT / M&E.
- WHERE PROPOSED SEWERS IN PUBLIC ROADS HAVE DEPTH OF COVER OF LESS THAN 1.2 METRES, IT IS PROPOSED TO PROTECT SAME WITH 150MM CONCRETE IN ACCORDANCE WITH THE REQUIREMENTS SET OUT IN SECTION 4.7 OF THE IRISH WATER WASTEWATER CODE OF PRACTICE.
- PROPOSED SEWERS WILL BE OF EITHER CONCRETE, THERMOSTATIC STRUCTURED WALLED PIPES OR UNPLASTICISED PVC IN ACCORDANCE WITH SECTION 3.13 OF THE IRISH WASTEWATER CODE OF PRACTICE.
- THE EXTERNAL FACE OF PROPOSED MANHOLE CHAMBERS IN PROPOSED PUBLIC ROADS WILL BE A MINIMUM 0.5m FROM THE PROPOSED PUBLIC ROAD KERB LINE AND EXTERNAL FACE OF SEWERS WILL BE A MINIMUM OF 1m FROM THE PROPOSED PUBLIC ROAD KERB LINE IN ACCORDANCE WITH SECTION 1.23 OF THE IW WASTEWATER CODE OF PRACTICE.



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Rev. No.	Date	REVISION NOTE	Dm. By	Chkd. By
P1	20.10.2020	PLANNING SUBMISSION STAGE 3	JS	OS

Client	The Shoreline Partnership
Project	Alterations to Shoreline GA01 Lands at Baldoyle
Title	WETLANDS
Dwg. No.	BD-CSC-ZZ-XX-DR-C-0031
Date	21.04.2020
Dm by	JS
Chkd by	OS
Apprv by	OS
Scale	AS SHOWN @ A1
Revision	P1

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I.S. EN ISO 14001:2004
I.S. EN ISO 50001:2011
OHSAS 18001:2007