



WETLANDS UNDER CONSTRUCTION AS PER PLANNING REG. REF: F16A/0412, ABP REG. REF: ABP-248970, AS AMENDED BY F20A/0258 AND F21A/0046

LEGEND:

- SITE BOUNDARY
- EXISTING FOUL SEWER
- EXISTING SURFACE WATER SEWER
- PROPOSED STORM SEWER
- PROPOSED FOUL SEWER
- PROPOSED SURFACE WATER SEWER DIVERSION
- UNDERCROFT PARKING LEVEL DRAINAGE
- PROPOSED SW INSPECTION CHAMBER
- PROPOSED SW INSPECTION CHAMBER
- PIPE DIAMETER AND GRADIENT
- PROPOSED MANHOLE NUMBER, COVER AND INVERT LEVELS
- BACKDROP INVERT LEVEL
- PROPOSED BIO RETENTION
- KERB GULLY
- ROAD GULLY
- PROPOSED PERMEABLE PAVING
- PROPOSED TREE PIT
- SITE BOUNDARY EXTENTS

NOTE: LOCATIONS AND LEVELS OF ALL EXISTING SERVICES ON SITE TO BE SURVEYED AND VERIFIED PRIOR TO COMMENCEMENT OF CONSTRUCTION WORKS.

- NOTES:**
- ALL LEVELS ARE TO MAIN HEAD ORDNANCE DATUM.
 - REFER TO DRAWING BD-CSC-ZZ-G3-DR-C-0109 FOR MANHOLE DETAILS.
 - REFER TO DRAWING BD-CSC-ZZ-G3-DR-C-0110 FOR PIPE BEARING DETAILS.
 - ALL WORKS IN CONFINED SPACES SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH THE PROVISIONS ON "SAFE WORK" IN CONFINED SPACES CODE OF PRACTICE FOR WORKING IN CONFINED SPACES, PUBLISHED BY THE HEALTH & SAFETY AUTHORITY.
 - ALL SITE DEVELOPMENT WORKS SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY, IN PARTICULARS SERIES 2000, 2001 AND 2002 UNDER REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS AND THE IRISH WATER CODE OF PRACTICE AND STANDARDS DETAILS.
 - THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTATION, INCLUDING DRAWINGS AND SPECIFICATIONS.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR LOCATING, PROTECTING AND MAINTAINING ALL EXISTING SERVICES WITHIN THE SITE BOUNDARY AND IN THE AREAS AFFECTED BY THE WORKS. THE ENGINEER HAS PROVIDED INFORMATION ON HOW SERVICES BUT DOES NOT GUARANTEE THAT THIS INFORMATION PROVIDED BY THE THIRD PARTIES IS CORRECT OR THAT THESE ARE THE ONLY SERVICES ON THE SITE.
 - SUITABLE SHORT LENGTHS OF PIPE OR ROOFER PIPES SHALL BE INSTALLED TO PROVIDE A FLEXIBLE JOINT WITHIN 300MM OF THE OUTER FACE OF THE MANHOLE ON ALL SEWERS AND BRANCHES.
 - WHERE ROOF IS MET IN TRENCHES IT SHALL BE EXCAVATED AND BENT TO 30MM BELOW THE SURFACE OF THE FLOOR.
 - GRANULAR MATERIAL 100mm - 20mm NOMINAL SIZE GRADED AGGREGATE (TO COMPLY WITH TABLE 1 OF BS) TO BE USED FOR BEDDING, HANDLING AND SURROUND WHERE SPECIFIED.
 - CONCRETE SAND 0/420 TO BE USED FOR BEDDING, HANDLING AND SURROUND WHERE SPECIFIED.
 - WHERE RIGID PIPES WITH FLEXIBLE JOINTS ARE USED WITH CONCRETE BEDS FOR BRANCH AND WATERWAYS, VERTICAL MOVEMENT JOINTS SHALL BE PROVIDED IN THE BED AT MAX. INTERVALS OF 50M AND ALIGNED WITH FACE OF PIPE SOCKET. JOINTS TO BE MINIMUM 100mm AND FILLED WITH FLEXIBLE OR SIMILAR APPROVED MATERIAL.
 - SURFACE WATER AND FLOOD DRAINS SHALL BE SURROUNDED BY 100mm THICKNESS OF CURB OR CONCRETE TO COVER TO PIPE OR LESS THAN:
 - 1.2M IN ROADS AND DRIVEWAYS
 - 0.5M IN OPEN SPACES AND PATHS NOT NEAR CARRIAGEWAYS.
 - ALL PIPE BANS SHALL BE LAID IN STRAIGHT LINES BOTH VERTICALLY AND HORIZONTALLY TO THE SPECIFIED GRADIENTS BETWEEN MANHOLES. NO DEVIATIONS OR BENDS SHALL BE PERMITTED.
 - REFER TO THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS FOR DETAILS OF SURFACE WATER MANHOLE STANDARDS AND IRISH WATER CODE OF PRACTICE AND STANDARDS DETAILS FOR DETAILS OF FLOOD MANHOLE STANDARDS.
 - THE CONTRACTOR SHALL CARRY OUT A CITY SURVEY REPORT OF THE COMPLETED STORM & FOUL NETWORK TO THE SATISFACTION OF THE LOCAL AUTHORITY AND REPORT TO BE ISSUED ON PRACTICAL COMPLETION.
 - THE LOCAL AUTHORITY MUST BE NOTIFIED AT LEAST TO WORKING DAYS IN ADVANCE OF COMMENCEMENT OF WORKS.
 - PRIOR TO COMMENCEMENT OF CONSTRUCTION OUTFALL LEVELS FOR THE FOUL AND SURFACE WATER MANHOLES SHALL BE VERIFIED ON SITE.
 - PROPOSED FOUL SEWERS WILL BE EITHER CONCRETE, THERMOSTATIC STRUCTURED BELLIED PIPES OR UNGLAZED PVC IN ACCORDANCE WITH SECTION 3.13 OF THE IRISH WATER WASTEWATER CODE OF PRACTICE. PROPOSED STORM DRAINS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF FINGAL CO. CD.
 - TYPICAL SERVICE LAYOUT DISTANCES (HORIZONTAL AND VERTICAL) AS FOR IRISH WATER DETAIL STD-WM-02.
 - THE EXTERNAL FACE OF PROPOSED MANHOLE CHAMBERS IN PUBLIC ROADS SHALL BE A MINIMUM OF 50MM FROM THE PROPOSED PUBLIC ROAD BORN LINE IN ACCORDANCE WITH SECTION 1.23 OF THE IRISH WATER WASTEWATER CODE OF PRACTICE.
 - INSPECTION CHAMBERS TO EACH HOUSE/JUNIT TO BE IN ACCORDANCE WITH IRISH WATER DETAIL STD-WM-02 AND STD-WM-03.
 - APPROPRIATE MEASURES ADHERING TO SECTION 3.21 OF THE IRISH WATER WASTEWATER CODE OF PRACTICE WILL BE PROVIDED TO DRAINAGE INFRASTRUCTURE IN CLOSE PROXIMITY TO PLANTING TO PREVENT ANY DAMAGE TO INFRASTRUCTURE VIA ROOT INGRESS OR NEGATIVE IMPACTS TO PLANTING SUCH AS DAMAGE OF TREE ROOTS.

LAYOUT PLAN OF PROPOSED WETLANDS (SCALE 1:500)

TIE-IN INTO EXISTING PAVEMENT INFRASTRUCTURE

PLANNING DRAWING. NOT FOR CONSTRUCTION. ALL LEVELS GIVEN ARE RELATIVE TO ORDNANCE DATUM.
THIS DRAWING HAS BEEN ISSUED FOR INFORMATION PURPOSES ONLY AND MUST NOT BE USED FOR CONSTRUCTION UNDER ANY CIRCUMSTANCES

- NOTES:**
- For setting out refer to Architect's drawings.
 - This drawing to be read in conjunction with all other Architectural and Engineering drawings and all other relevant drawings and specifications.
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Rev. No.	Date	REVISION NOTE	Des. By	Chk. By	Architect
P1	01.03.2021	Site Layout Revised	JS	OS	
P2	13.04.2021	RED LINE AMENDED			

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PROPOSED DRAINAGE LAYOUT SHEET 1 OF 2

BD-CSC-ZZ-G3-DR-C-0103

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Quality ISO 9001:2008
Environment ISO 14001:2004
Health & Safety OHSAS 18001:2007