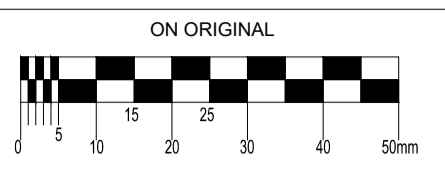


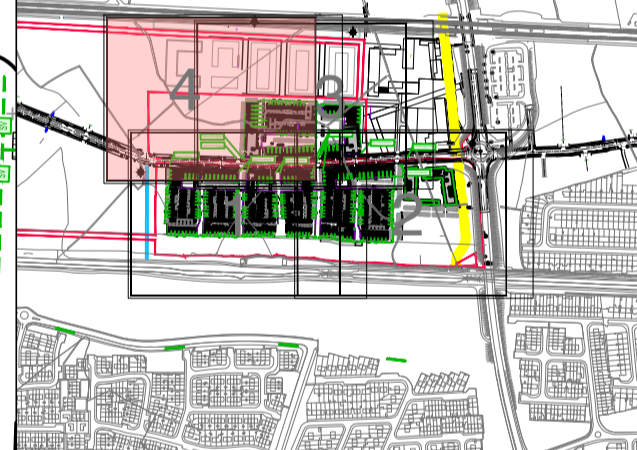
- LIST OF IRISH WATER STANDARD DETAILS BROUGHT INTO THE CONTRACT
- STD-W-01 WATER SERVICE CONNECTION RESPONSIBILITY DEVELOPMENTS
 - STD-W-02 TYPICAL LAYOUT FOR WATERMANS WITHIN (25mm OD PIPE)
 - STD-W-03 CUSTOMER CONNECTION AND BOUNDARY BOX
 - STD-W-04 GENERAL PIPE CONNECTIONS (SHEET 1 OF 7)
 - STD-W-05 GENERAL PIPE CONNECTIONS (SHEET 2 OF 7)
 - STD-W-06 GENERAL PIPE CONNECTIONS (SHEET 3 OF 7)
 - STD-W-07 GENERAL PIPE CONNECTIONS (SHEET 4 OF 7)
 - STD-W-08 GENERAL PIPE CONNECTIONS (SHEET 5 OF 7)
 - STD-W-09 GENERAL PIPE CONNECTIONS (SHEET 6 OF 7)
 - STD-W-10 GENERAL PIPE CONNECTIONS (SHEET 7 OF 7)
 - STD-W-11 TYPICAL SERVICE LAYOUT INDICATING SEPARATION DISTANCES
 - STD-W-12 RESTRICTIONS ON WATER INFRASTRUCTURE WORKS ADJACENT TO EXISTING TREES
 - STD-W-12A RESTRICTIONS ON NEW TREES/SHRUBS PLANTING ADJACENT TO WATER MAINS
 - STD-W-13 TRENCH BACKFILL/BEDDING & REDUCED COVER PROTECTION SLAB DETAIL
 - STD-W-14 SLUICE VALVE FOR DUCTILE IRON (D.I.) PIPE ($\leq 300\text{mm}$ DIA)(SHEET 1 OF 2)
 - STD-W-15 SLUICE VALVE FOR POLYETHYLENE (P.E.) PIPE ($\leq 300\text{mm}$ DIA)(SHEET 2 OF 2)
 - STD-W-16 ON-LINE HYDRANT FOR DUCTILE IRON (D.I.) PIPE (SHEET 1 OF 4)
 - STD-W-17 OFF-LINE HYDRANT FOR DUCTILE IRON (D.I.) PIPE (SHEET 2 OF 4)
 - STD-W-18 ON-LINE HYDRANT FOR POLYETHYLENE (P.E.) PIPE (SHEET 3 OF 4)
 - STD-W-19 OFF-LINE HYDRANT FOR POLYETHYLENE (P.E.) PIPE (SHEET 4 OF 4)
 - STD-W-20 ON-LINE AIR VALVE FOR DUCTILE IRON (D.I.) PIPE (SHEET 1 OF 4)
 - STD-W-21 OFF-LINE AIR VALVE FOR DUCTILE IRON (D.I.) PIPE (SHEET 2 OF 4)
 - STD-W-22 ON-LINE AIR VALVE FOR POLYETHYLENE (P.E.) PIPE (SHEET 3 OF 4)
 - STD-W-23 OFF-LINE AIR VALVE FOR POLYETHYLENE (P.E.) PIPE (SHEET 4 OF 4)
 - STD-W-24 PRESSURE REDUCING/SUSTAINING VALVE CHAMBER
 - STD-W-25 BOOSTER PUMP STATION ARRANGEMENT
 - STD-W-26 ELECTROMAGNETIC METER CHAMBER ($\phi 80-\phi 250\text{mm}$ Dia)
 - STD-W-26A CHAMBER FOR FLANGED MECH. METER WITHOUT STRAINER ($\phi 40-\phi 250\text{mm}$ Dia)
 - STD-W-26B CHAMBER FOR FLANGED MECH. METER ($\phi 100-\phi 250\text{mm}$ Dia) WITH SEPARATE STRAINER CHAMBER
 - STD-W-26C THREADED ROTARY PISTON FLOW METER CHAMBER ($\phi 30-\phi 40\text{mm}$ Dia) IN-SITU CONCRETE OPTION
 - STD-W-26D THREADED ROTARY PISTON FLOW METER CHAMBER ($\phi 30-\phi 40\text{mm}$ Dia) PRECAST CONCRETE OPTION
 - STD-W-26E THREADED ROTARY PISTON FLOW METER CHAMBER ($\phi 30-\phi 40\text{mm}$ Dia) BLACKWORK OPTION
 - STD-W-26F BY-PASS FLOW METER CHAMBER (25-32mm O.D. Dia) FOR DEVELOPMENTS WITH <math>< 20\text{mm}</math> DAY WATER USE
 - STD-W-26G FLOW METER CHAMBER (25-32mm O.D. Dia)
 - STD-W-27 MARKER POSTS/PLATES
 - STD-W-28 WATER MAIN THRUST & SUPPORT BLOCKS
 - STD-W-29 DUCT CHAMBER
 - STD-W-30 SCOUR CHAMBER & HEAD WALL ARRANGEMENTS
 - STD-W-30A WASHOUT HYDRANT
 - STD-W-30B SCOUR CHAMBER TO STORM SEWER ARRANGEMENTS
 - STD-W-31 TYPICAL DITCH/STREAM CROSSING FOR WATERMAIN DUCTILE IRON OPTION
 - STD-W-31A TYPICAL DITCH/STREAM CROSSING FOR WATERMAIN POLYETHYLENE OPTION
 - STD-W-32 TYPICAL BRIDGE CROSSING FOR WATERMAIN (SHEET 1 OF 2)
 - STD-W-33 TYPICAL BRIDGE CROSSING FOR WATERMAIN (SHEET 2 OF 2)
 - STD-W-34 SECURITY GATE AND FENCING PAUSADE OPTION (PREFERRED)
 - STD-W-34A SECURITY GATE AND FENCING WIRE MESH OPTION
 - STD-W-35 PIPE REPAIR TO EXISTING MAINS
 - STD-W-36 FLOW METER KIOSK
 - STD-W-36A PRV/PSV CONTROL KIOSK
 - STD-W-37 LAMP BOLLARD AND LAMP STANDARD
 - STD-W-38 WATERMAIN LOOP DETAIL DUCTILE IRON OPTION
 - STD-W-39 WATERMAIN LOOP DETAIL POLYETHYLENE OPTION



- NOTES:
1. ALL DRAWINGS TO BE CHECKED BY CONTRACTOR ON SITE AND ENGINEER INFORMED OF DISCREPANCIES BEFORE WORK COMMENCES.
 2. THE CONTRACTOR MUST SATISFY HIMSELF AS TO THE ACCURACY OF EXISTING WATERMANS AND LOCATION OF EXISTING SERVICES ON SITE PRIOR TO COMMENCEMENT OF WORKS ON SITE.
 3. ALL DIMENSIONS AND LEVELS ARE IN METERS AND ARE RELATED TO ORDNANCE DATUM. CO-ORDINATES RELATE TO IRISH TRANSVERSE MERCATOR.
 4. ALL WATERMANS VALVES AND FITTINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE IRISH WATER STANDARD DETAILS AND IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE.
 5. CONNECTION BETWEEN EXISTING AND PROPOSED WATERMANS TO BE CARRIED OUT IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS STD-W-03 TO STD-W-10.
 6. ANCHOR BLOCKS TO BE POSITIONED AT DEAD ENDS, TEES, BENDS AND AT EACH SIDE OF HYDRANTS AND VALVES IN ACCORDANCE WITH THE REQUIREMENTS OF IRISH WATER STANDARD DETAIL STD-W-28 (WATER MAIN THRUST AND SUPPORT BLOCKS).
 7. DISMANTLING JOINTS TO BE INSTALLED AT EACH SLUICE VALVE AS PER IRISH WATER STANDARD DETAIL STD-W-15.
 8. CONNECTION TO INDIVIDUAL HOUSES IN ACCORDANCE WITH IRISH WATER STD-W-03. METERS FOR APARTMENTS SHALL BE INSTALLED INTERNALLY WITHIN THE PREMISES IN ACCORDANCE WITH THE BUILDING CONTROL AND IRISH WATER REQUIREMENTS.
 9. MARKER POSTS AND PLATES ARE TO BE PROVIDED IN ACCORDANCE WITH IRISH WATER STANDARD DETAIL STD-W-27.
 10. CONNECTION TO EXISTING WATERMANS TO BE COORDINATED BY THE CONTRACTOR WITH IRISH WATER AND/OR THE LOCAL AUTHORITY.
 11. CONTRACTOR TO LIASE WITH IRISH WATER AND / OR THE LOCAL AUTHORITY AS REQUIRED REGARDING TESTING, CLEANSING AND STERILIZATION OF WATERMANS.
 12. WATERMANS TO BE PRESSURE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF IRISH WATER AND ION 4-01-03, GUIDE TO TESTING OF PRESSURE PIPES AND FITTINGS FOR USE BY PUBLIC WATER SUPPLIERS, OCTOBER 2015. A FORMAL TEST REPORT SHALL BE SUBMITTED TO THE ENGINEER DETAILING THE TEST CARRIED OUT.

- LEGEND
- PROPOSED SITE BOUNDARY
 - PROPOSED $\phi 110\text{mm}$ OD PE 100 SDR17 WATERMAIN
 - PROPOSED $\phi 160\text{mm}$ OD PE 100 SDR17 WATERMAIN
 - PROPOSED BULK WATER METER
 - AIR VALVE (W STD-W-20/ STD-W-22)
 - HYDRANT (W STD-W-16/ STD-W-19)
 - SLUICE VALVE (W STD-W-14/ STD-W-15)
 - PROPOSED BOUNDARY BOX (W STD-W-03)
 - TRUNK $\phi 300\text{mm}$ WATERMAIN (AS PART OF THE CSLS)
 - TRUNK $\phi 400\text{mm}$ WATERMAIN (AS PART OF THE CSLS)
 - $\phi 150\text{mm}$ WATERMAIN (AS PART OF THE CSLS)
 - $\phi 200\text{mm}$ WATERMAIN (AS PART OF THE CSLS)
 - EXISTING WATERMAIN
 - PROPOSED ROAD LEVEL
 - PROPOSED ROAD GRADIENT

KEY PLAN



rev	date	description	DKE	JPC
P01	17-11-21	ISSUED FOR PLANNING		

S2 - INFORMATION PLANNING

DBFL Consulting Engineers
Civil, Structural & Transportation Engineering
www.dbfl.ie

DUBLIN OFFICE: Ormond House, Upper Ormond Quay, Dublin 7, Ireland.
PHONE: +353 (0)1 400 4000

CORK OFFICE: Phoenix House, Marohan Road, Cork.
PHONE: +353 (0)21 2024538

WATERFORD OFFICE: Unit 2, The Chandlery, 1-2 Cornhill Street, Waterford, Ireland.
PHONE: +353 (0)51 309 500

project ref. CLONBURRIS PHASE 1A

drawing title WATERMAIN LAYOUT - SHEET 4

client CAIRN HOMES LTD

designed by	author	scale	sheet size
TCA	DKE	1:500	A1
drawing no.	revision		
162119-DBFL-WM-SP-DR-C-1354	P01		

