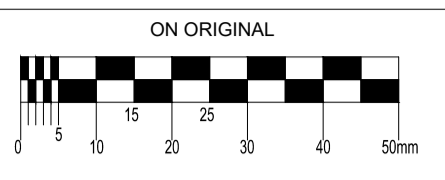


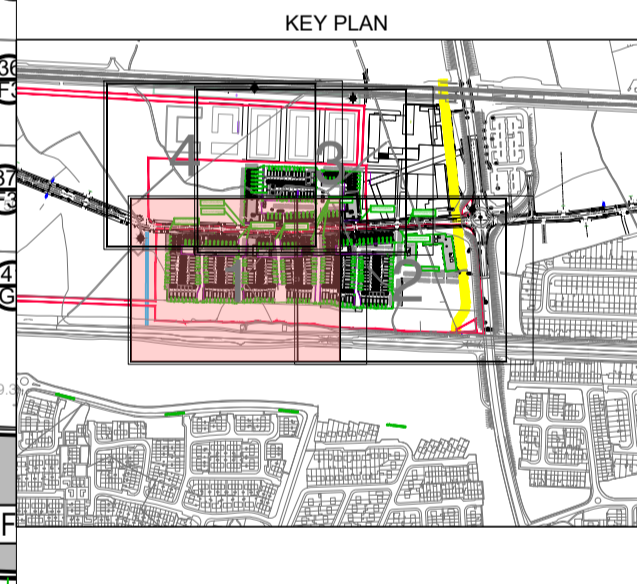


© COPYRIGHT OF THIS DRAWING IS RESERVED BY DBFL CONSULTING ENGINEERS. NO PART SHALL BE REPRODUCED OR TRANSMITTED WITHOUT THEIR WRITTEN PERMISSION.



- NOTES:
- ALL DRAWINGS TO BE CHECKED BY CONTRACTOR ON SITE AND ENGINEER INFORMED OF DISCREPANCIES BEFORE WORK COMMENCES.
 - THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE ACCURACY OF EXISTING WATERMANS AND LOCATION OF EXISTING SERVICES ON SITE PRIOR TO COMMENCEMENT OF WORKS ON SITE.
 - ALL DIMENSIONS AND LEVELS ARE IN METERS AND ARE RELATED TO ORDNANCE DATUM. CO-ORDINATES RELATE TO IRISH TRANSVERSE MERCATOR.
 - 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.
 - CONNECTION BETWEEN EXISTING AND PROPOSED WATERMANS TO BE CARRIED OUT IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS STD-W-03 TO STD-W-10.
 - 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).
 - DISMANTLING JOINTS TO BE INSTALLED AT EACH SLUICE VALVE AS PER IRISH WATER STANDARD DETAIL STD-W-15.
 - 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.
 - MARKER POSTS AND PLATES ARE TO BE PROVIDED IN ACCORDANCE WITH IRISH WATER STANDARD DETAIL STD-W-27.
 - CONNECTION TO EXISTING WATERMANS TO BE COORDINATED BY THE CONTRACTOR WITH IRISH WATER AND/OR THE LOCAL AUTHORITY.
 - CONTRACTOR TO LIAISE WITH IRISH WATER AND / OR THE LOCAL AUTHORITY AS REQUIRED REGARDING TESTING, CLEANSING AND STERILISATION OF WATERMANS.
 - 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 #110mm OD PE 100 SDR17 WATERMAIN
 - PROPOSED #160mm OD PE 100 SDR17 WATERMAIN
 - PROPOSED BULK WATER METER
 - AIR VALVE (W STD-W-20/ STD-W-22)
 - HYDRANT (W STD-W-18/ STD-W-19)
 - SLUICE VALVE (W STD-W-14/ STD-W-15)
 - PROPOSED BOUNDARY BOX (W STD-W-03)
 - TRUNK #300mm WATERMAIN (AS PART OF THE CSLS)
 - TRUNK #400mm WATERMAIN (AS PART OF THE CSLS)
 - #150mm WATERMAIN (AS PART OF THE CSLS)
 - #200mm WATERMAIN (AS PART OF THE CSLS)
 - EXISTING WATERMAIN
 - PROPOSED ROAD LEVEL
 - PROPOSED ROAD GRADIENT



- LIST OF IRISH WATER STANDARD DETAILS BROUGHT INTO THE CONTRACT
- STD-W-01 WATER SERVICE CONNECTION RESPONSIBILITY
 - STD-W-02 TYPICAL LAYOUT FOR WATERMANS WITHIN DEVELOPMENTS
 - STD-W-03 CUSTOMER CONNECTION AND BOUNDARY BOX (25mm OD PIPE)
 - 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 (<350mm DIA.) (SHEET 1 OF 2)
 - STD-W-15 SLUICE VALVE FOR POLYETHYLENE (P.E.) PIPE (<350mm 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 IN-SITU R.C. OPTION
 - STD-W-25 BOOSTER PUMP STATION ARRANGEMENT
 - STD-W-26 ELECTROMAGNETIC METER CHAMBER (dn80-dn250mm Dia)
 - STD-W-26A CHAMBER FOR FLANGED MECH. METER WITHOUT STRAINER (dn40-dn250mm Dia)
 - STD-W-26B CHAMBER FOR FLANGED MECH. METER (dn100-dn250mm Dia) WITH SEPARATE STRAINER CHAMBER
 - STD-W-26C THREADED ROTARY PISTON FLOW METER CHAMBER (dn30-dn40mm Dia) IN-SITU CONCRETE OPTION
 - STD-W-26D THREADED ROTARY PISTON FLOW METER CHAMBER (dn30-dn40mm Dia) PRECAST CONCRETE OPTION
 - STD-W-26E THREADED ROTARY PISTON FLOW METER CHAMBER (dn30-dn40mm Dia) BLACKWORK OPTION
 - STD-W-26F BY-PASS FLOW METER CHAMBER (25-32mm O.D. Dia) FOR DEVELOPMENTS WITH <20m³/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-33A TYPICAL CULVERT AND SERVICES CROSSING DETAILS FOR WATERMAIN
 - STD-W-34 SECURITY GATE AND FENCING PALISADE 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 PRIVACY 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 DUCTILE POLYETHYLENE OPTION

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

client approval	issue purpose
A - Approved	PLANNING
B - Approved with comments	
C - Do not use	

client	designed by	author	scale	sheet size
CAIRN HOMES LTD	TCA	DKE	1:500	A1

drawing no.	revision
162119-DBFL-WM-SP-DR-C-1351	P01

ORDNANCE SURVEY IRELAND LICENCE
No EN 0017921
© ORDNANCE SURVEY IRELAND GOVERNMENT
OF IRELAND