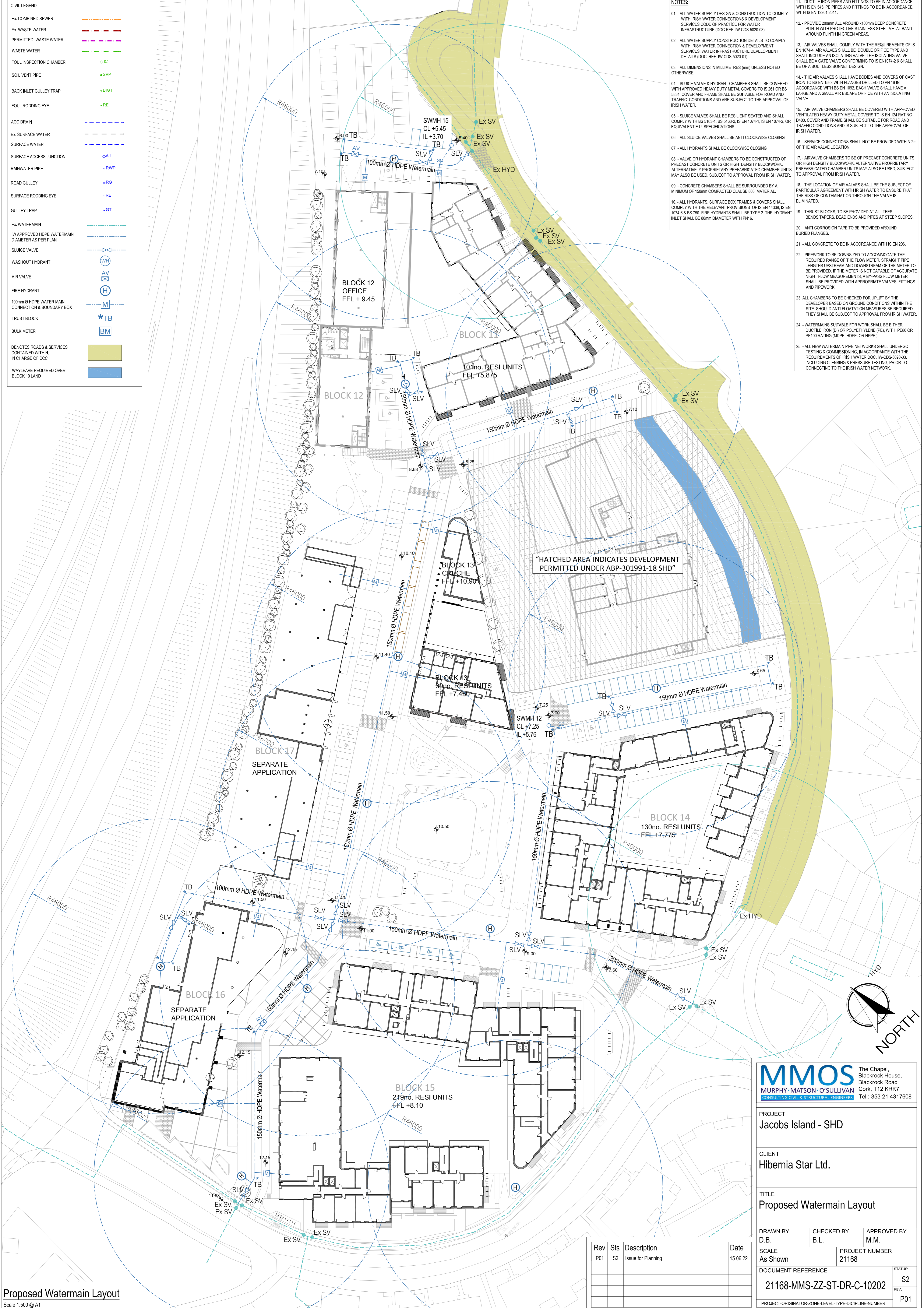


CIVIL LEGEND	
Ex. COMBINED SEWER	— — — — —
Ex. WASTE WATER	— — — — —
PERMITTED WASTE WATER	— — — — —
WASTE WATER	— — — — —
FOUL INSPECTION CHAMBER	○ IC
SOIL VENT PIPE	● SVP
BACK INLET GULLEY TRAP	● BIGT
FOUL RODDING EYE	● RE
ACC DRAIN	— — — — —
Ex. SURFACE WATER	— — — — —
SURFACE WATER	— — — — —
SURFACE ACCESS JUNCTION	○ AJ
RAINWATER PIPE	— — — — —
ROAD GULLEY	— — — — —
SURFACE RODDING EYE	● RE
GULLEY TRAP	● GT
Ex. WATERMAIN	— — — — —
100mm Ø HDPE WATERMAIN DIAMETER AS PER PLAN	— — — — —
SLUICE VALVE	— — — — —
WASHOUT HYDRANT	⊙ WH
AIR VALVE	⊙ AV
FIRE HYDRANT	⊙ H
100mm Ø HDPE WATER MAIN CONNECTION & BOUNDARY BOX	⊙ M
TRUST BLOCK	★ TB
BULK METER	⊙ BM
DENOTES ROADS & SERVICES CONTAINED WITHIN, IN CHARGE OF CCC	■
WAYLEAVE REQUIRED OVER BLOCK 10 LAND	■

- NOTES:**
01. - ALL WATER SUPPLY DESIGN & CONSTRUCTION TO COMPLY WITH IRISH WATER CONNECTIONS & DEVELOPMENT SERVICES CODE OF PRACTICE FOR WATER INFRASTRUCTURE (DOC. REF. IW-CDS-9229-03)
  02. - ALL WATER SUPPLY CONSTRUCTION DETAILS TO COMPLY WITH IRISH WATER CONNECTION & DEVELOPMENT SERVICES WATER INFRASTRUCTURE DEVELOPMENT DETAILS (DOC. REF. IW-CDS-5020-01)
  03. - ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
  04. - SLUICE VALVE & HYDRANT CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO BS 291 OR BS 5534. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND ARE SUBJECT TO THE APPROVAL OF IRISH WATER.
  05. - SLUICE VALVES SHALL BE RESILIENT SEATED AND SHALL COMPLY WITH BS 5163-1, BS 5163-2 IS EN 1074-1, IS EN 1074-2, OR EQUIVALENT E.U. SPECIFICATIONS.
  06. - ALL SLUICE VALVES SHALL BE ANTI-CLOCKWISE CLOSING.
  07. - ALL HYDRANTS SHALL BE CLOCKWISE CLOSING.
  08. - VALVE OR HYDRANT CHAMBERS TO BE CONSTRUCTED OF PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK. ALTERNATIVELY PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED. SUBJECT TO APPROVAL FROM IRISH WATER.
  09. - CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL.
  10. - ALL HYDRANTS, SURFACE BOX FRAMES & COVERS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF IS EN 14339, IS EN 1074-3 & BS 730. FIRE HYDRANTS SHALL BE TYPE 2. THE HYDRANT INLET SHALL BE 80mm DIAMETER WITH FN15.
  11. - DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545, PE PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 12201:2011.
  12. - PROVIDE 200mm ALL AROUND x100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STAINLESS STEEL METAL BAND AROUND PLINTH IN GREEN AREAS.
  13. - AIR VALVES SHALL COMPLY WITH THE REQUIREMENTS OF IS EN 1074-4. AIR VALVES SHALL BE DOUBLE ORIFICE TYPE AND SHALL INCLUDE AN ISOLATING VALVE. THE ISOLATING VALVE SHALL BE A GATE VALVE CONFORMING TO IS EN1074-2 & SHALL BE OF A BOX T LESS BONNET DESIGN.
  14. - THE AIR VALVES SHALL HAVE BODIES AND COVERS OF CAST IRON TO BS EN 1563 WITH FLANGES DRILLED TO PN 16 IN ACCORDANCE WITH BS EN 1002. EACH VALVE SHALL HAVE A LARGE AND A SMALL AIR ESCAPE ORIFICE WITH AN ISOLATING VALVE.
  15. - AIR VALVE CHAMBERS SHALL BE COVERED WITH APPROVED VENTILATED HEAVY DUTY METAL COVERS TO IS EN 124 RATING D400. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO THE APPROVAL OF IRISH WATER.
  16. - SERVICE CONNECTIONS SHALL NOT BE PROVIDED WITHIN 2m OF THE AIR VALVE LOCATION.
  17. - AIRVALVE CHAMBERS TO BE OF PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK. ALTERNATIVELY PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED. SUBJECT TO APPROVAL FROM IRISH WATER.
  18. - THE LOCATION OF AIR VALVES SHALL BE THE SUBJECT OF PARTICULAR AGREEMENT WITH IRISH WATER TO ENSURE THAT THE RISK OF CONTAMINATION THROUGH THE VALVE IS ELIMINATED.
  19. - THRUST BLOCKS, TO BE PROVIDED AT ALL TEES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.
  20. - ANTI-CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
  21. - ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
  22. - PIPEWORK TO BE DOWNSIIZED TO ACCOMMODATE THE REQUIRED RANGE OF THE FLOW METER. STRAIGHT PIPE LENGTHS UPSTREAM AND DOWNSTREAM OF THE METER TO BE PROVIDED. IF THE METER IS NOT CAPABLE OF ACCURATE NIGHT FLOW MEASUREMENTS, A BY-PASS FLOW METER SHALL BE PROVIDED WITH APPROPRIATE VALVES, FITTINGS AND PIPEWORK.
  23. ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE. SHOULD ANTI FLOATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO APPROVAL FROM IRISH WATER.
  24. - WATERMANS SUITABLE FOR WORK SHALL BE EITHER DUCTILE IRON (DI) OR POLYETHYLENE (PE), WITH PE80 OR PE100 RATINGS (MDPE, HDPE, OR HPPPE).
  25. - ALL NEW WATERMAIN PIPE NETWORKS SHALL UNDERGO TESTING & COMMISSIONING, IN ACCORDANCE WITH THE REQUIREMENTS OF IRISH WATER DOC. IW-CDS-5020-03, INCLUDING CLENSING & PRESSURE TESTING, PRIOR TO CONNECTING TO THE IRISH WATER NETWORK.



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PROJECT  
**Jacobs Island - SHD**

CLIENT  
**Hibernia Star Ltd.**

TITLE  
**Proposed Watermain Layout**

DRAWN BY D.B.	CHECKED BY B.L.	APPROVED BY M.M.
SCALE As Shown	PROJECT NUMBER 21168	

Rev	Sts	Description	Date
P01	S2	Issue for Planning	15.06.22

DOCUMENT REFERENCE  
**21168-MMS-ZZ-ST-DR-C-10202**

PROJECT-ORIGINATOR-ZONE-LEVEL-TYPE-DICIPLINE-NUMBER

STATUS:  
 S2  
 REV:  
 P01

**Proposed Watermain Layout**  
 Scale 1:500 @ A1