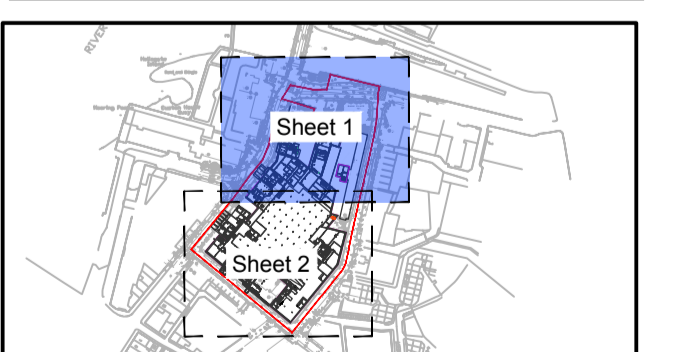


- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS. ANY DISCREPANCIES, ERRORS OR OMISSIONS TO BE BROUGHT TO THE ATTENTION OF THE DESIGNER.
- ALL DIMENSIONS TO BE CHECKED BY THE CONTRACTOR ON SITE PRIOR TO COMMENCEMENT OF WORKS.
- AECOM LIMITED TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF WORKS ON SITE.
- DIMENSIONS OF ALL BOUNDARIES AND ADJOINING ROADS TO BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF WORKS.
- DO NOT SCALE. ALL MEASUREMENTS AND COORDINATES TO BE CHECKED ON SITE.
- THE PROPOSED SURFACE WATER SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATION OF SECTION 3 OF "RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS FOR HOUSING AREAS" (DEPARTMENT OF ENVIRONMENT & LOCAL GOVERNMENT 1998) AND IRISH WATER STANDARD DETAILS.
- THE LOCATION & DEPTH OF SERVICES TO BE CHECKED ON SITE PRIOR TO COMMENCING ANY WORKS.
- MANHOLE COVERS AND FRAMES IN PUBLICLY ACCESSIBLE AREAS SHALL BE HEAVY DUTY CAST IRON, CLASS D400, DOUBLE SEALED AND LOCKABLE TYPE COMPLYING WITH BS EN 124:2015.
- GULLY GRATINGS & FRAMES SHALL COMPLY WITH BS EN 124:2015.
- EXISTING INVERT LEVELS TO BE VERIFIED ON SITE BEFORE COMMENCING CONSTRUCTION.
- SURFACE WATER & FOUL SEWER PIPES LESS THAN 1.2m BELOW THE ROAD SURFACE OR LESS THAN 0.9m IN NON-TRAFFICKED FOOTPATHS AND LANDSCAPE AREAS (WITH AN ABSOLUTE MINIMUM DEPTH OF COVER ABOVE THE EXTERNAL CROWN OF THE PIPE Ø750mm) SHALL BE PROTECTED FROM DAMAGE BY PROVIDING MINIMUM 150mm THICK CONCRETE C16/20 HAUNCH IN ACCORDANCE WITH IS EN 12820.
- ATTENUATION PROPOSALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY.
- CCTV SURVEY TO BE CONDUCTED PRIOR TO COMMENCEMENT OF ANY WORKS TO DETERMINE THE CONDITION AND VERIFY LEVELS OF THE EXISTING FOUL AND SURFACE WATER PIPES/ MANHOLES. ANY SUB-STANDARD OR DEFECTIVE ELEMENTS OF THE EXISTING PIPES/MANHOLES TO BE REPORTED AND CORRECTED.
- ALL SURFACE WATER DRAINAGE DETAILS TO BE IN ACCORDANCE WITH THE GREATER DUBLIN STRATEGIC DRAINAGE STUDY AND THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
- ALL FOUL WATER DETAILS TO BE IN ACCORDANCE WITH THE IRISH WATER INFRASTRUCTURE STANDARD DETAILS AND CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE.

ISSUE/REVISION

I/R	DATE	DESCRIPTION
0	14.03.2019	ISSUED FOR PLANNING

KEY PLAN



PROJECT NUMBER

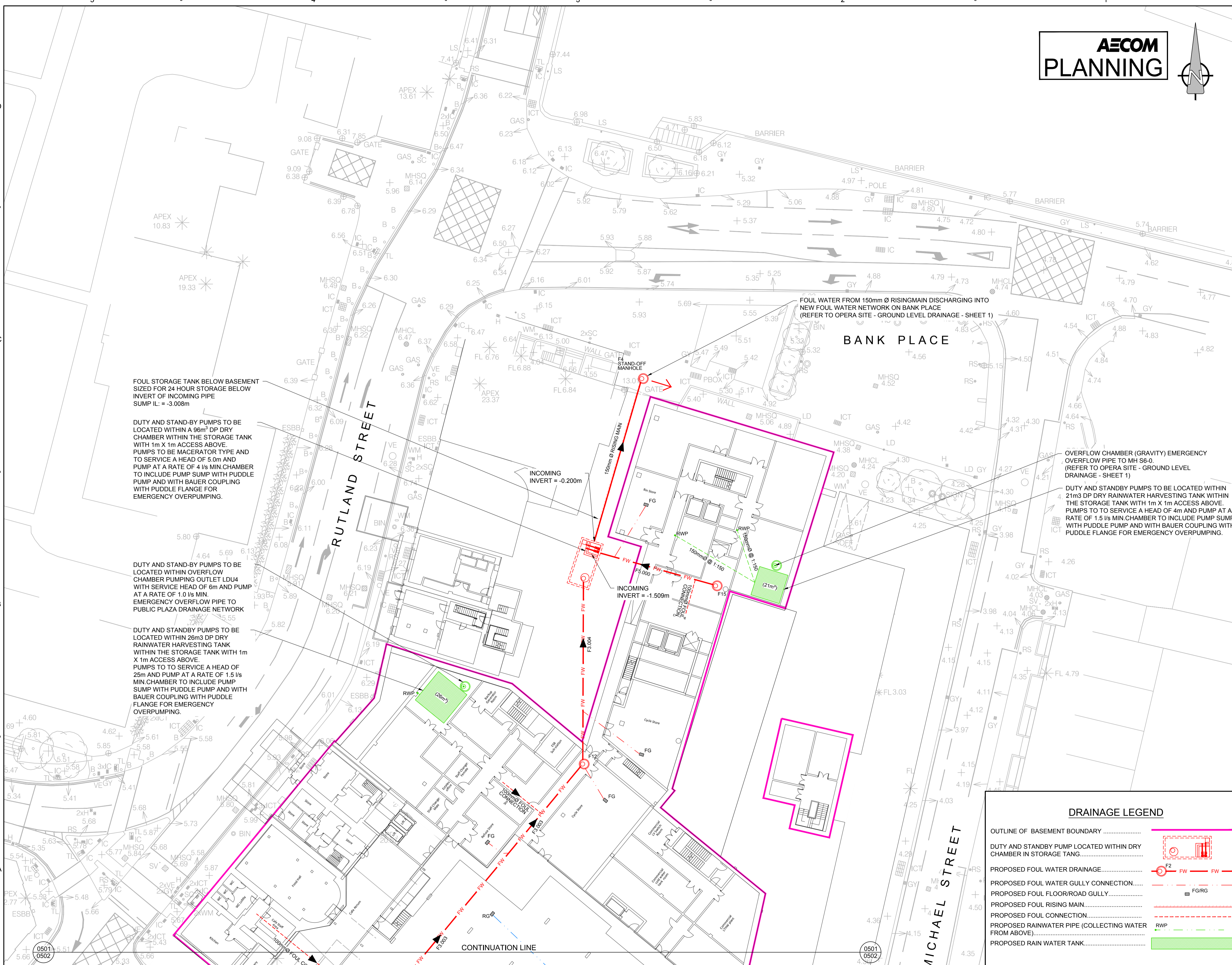
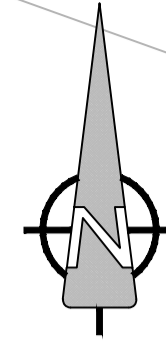
60568520

SHEET TITLE

BASEMENT DRAINAGE LAYOUT SHEET 1

SHEET NUMBER

PR289270-ACM-XX-B1-DR-CE-10-0501



FOUL STORAGE TANK BELOW BASEMENT SIZED FOR 24 HOUR STORAGE BELOW INVERT OF INCOMING PIPE
SUMP IL: = -3.008m

DUTY AND STAND-BY PUMPS TO BE LOCATED WITHIN A 96m³ DP DRY CHAMBER WITHIN THE STORAGE TANK WITH 1m X 1m ACCESS ABOVE. PUMPS TO BE MACERATOR TYPE AND TO SERVICE A HEAD OF 5.0m AND PUMP AT A RATE OF 4 l/s MIN. CHAMBER TO INCLUDE PUMP SUMP WITH PUDDLE PUMP AND WITH BAUER COUPLING WITH PUDDLE FLANGE FOR EMERGENCY OVERPUMPING.

DUTY AND STAND-BY PUMPS TO BE LOCATED WITHIN OVERFLOW CHAMBER PUMPING OUTLET LDU4 WITH SERVICE HEAD OF 6m AND PUMP AT A RATE OF 1.0 l/s MIN. EMERGENCY OVERFLOW PIPE TO PUBLIC PLAZA DRAINAGE NETWORK

DUTY AND STANDBY PUMPS TO BE LOCATED WITHIN 26m³ DP DRY RAINWATER HARVESTING TANK WITHIN THE STORAGE TANK WITH 1m X 1m ACCESS ABOVE. PUMPS TO SERVICE A HEAD OF 25m AND PUMP AT A RATE OF 1.5 l/s MIN. CHAMBER TO INCLUDE PUMP SUMP WITH PUDDLE PUMP AND WITH BAUER COUPLING WITH PUDDLE FLANGE FOR EMERGENCY OVERPUMPING.

FOUL WATER FROM 150mm Ø RISING MAIN DISCHARGING INTO NEW FOUL WATER NETWORK ON BANK PLACE
(REFER TO OPERA SITE - GROUND LEVEL DRAINAGE - SHEET 1)

OVERFLOW CHAMBER (GRAVITY) EMERGENCY OVERFLOW PIPE TO MH S6-0.
(REFER TO OPERA SITE - GROUND LEVEL DRAINAGE - SHEET 1)

DUTY AND STANDBY PUMPS TO BE LOCATED WITHIN 21m³ DP DRY RAINWATER HARVESTING TANK WITHIN THE STORAGE TANK WITH 1m X 1m ACCESS ABOVE. PUMPS TO SERVICE A HEAD OF 4m AND PUMP AT A RATE OF 1.5 l/s MIN. CHAMBER TO INCLUDE PUMP SUMP WITH PUDDLE PUMP AND WITH BAUER COUPLING WITH PUDDLE FLANGE FOR EMERGENCY OVERPUMPING.

DRAINAGE LEGEND

- OUTLINE OF BASEMENT BOUNDARY
- DUTY AND STANDBY PUMP LOCATED WITHIN DRY CHAMBER IN STORAGE TANG.....
- PROPOSED FOUL WATER DRAINAGE.....
- PROPOSED FOUL WATER GULLY CONNECTION.....
- PROPOSED FOUL FLOOR/ROAD GULLY.....
- PROPOSED FOUL RISING MAIN.....
- PROPOSED FOUL CONNECTION.....
- PROPOSED RAINWATER PIPE (COLLECTING WATER FROM ABOVE).....
- PROPOSED RAIN WATER TANK.....

A BASEMENT DRAINAGE LAYOUT - SHEET 1

0501 Scale: 1:250

Last saved by: NANU BURNETT (2019-03-14) Last Plotted: 2019-03-14
 File name: \\EU.AECOM\NET\COM\EMIA\UK\IED\B2\JOBSPR-289270_PROJECT_OPERA_ADDITIONAL_FEE\000_CAD_GIS\904_CEO1_WIP\02_SHEETS\PR289270-ACM-XX-B1-DR-CE-10-0501.DWG
 Project Management Initials: Designer: JR Checked: RG Approved: EMCK
 ISO A1 894mm x 841mm