

NOTES

- DRAINAGE NOTES**
- ALL BUILDING DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH BS EN 752:2008 DRAINAGE AND SEWER SYSTEMS (OUTSIDE BUILDINGS), THE CURRENT BUILDING REGULATIONS AND THE LOCAL AUTHORITY BUILDING CONTROL SPECIFICATIONS AND REQUIREMENTS.
 - ANY DRAINAGE TO BE RUN FORWARD FOR ADOPTION EITHER WITHIN THE SITE OR OUTSIDE SHALL BE CONSTRUCTED TO SEWERS FOR ADOPTION LATER EITHER AND ANY SPECIFIC REQUIREMENTS OF THE ADOPTING SEWERAGE WATER AUTHORITY.
 - THE LOCATION, SIZE AND DEPTH OF ALL EXISTING DRAINAGEWORKS AND SERVICES SHALL BE ESTABLISHED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORKS ON SITE. ANY DISCREPANCIES FROM THE INFORMATION INDICATED ON THESE DRAWINGS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 - THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD ANY EXISTING LIVE DRAINAGE BE FOUND WITHIN THE SITE BOUNDARY SERVING ADJACENT PROPERTIES.
 - ALL EXISTING DRAINAGE WITHIN THE SITE NOT REQUIRED FOR THE NEW DEVELOPMENT SHALL BE ABANDONED. DRAINS AND SEWERS LESS THAN 1500mm DEPTH WHICH ARE IN OPEN GROUND SHOULD AS FAR AS PRACTICABLE BE FULLY REMOVED. ALL OTHER PIPES SHOULD BE SEALED AT BOTH ENDS AND AT ANY POINT OF CONNECTION, AND BE GROUT FULLED TO ENSURE THAT RAIS CANNOT GAIN ACCESS. LARGER PIPES 2250mm OR ABOVE SHOULD BE GROUT FULLED TO PREVENT SUBSURGENCE OR DAMAGE TO BUILDINGS OR SERVICES IN THE EVENT OF COLLAPSE.
 - THE CONTRACTOR SHALL ALLOW FOR THE PROTECTION, TEMPORARY AND PERMANENT SUPPORT AND CORROSION WORKS AS NECESSARY TO ALL EXISTING SERVICES TO THE SATISFACTION OF THE UTILITY COMPANIES.
 - THE CONTRACTOR SHALL ALLOW FOR DEALING WITH SURFACE WATER RUN OFF INTO EXCAVATIONS AND FROM GROUNDWATER BY MEANS OF PUMPS, PIPING AND DE WATERING AS APPROPRIATE, IN ORDER TO KEEP THE EXCAVATION AS REASONABLY DRY AS POSSIBLE DURING THE CONSTRUCTION OF THE WORKS.
 - THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS IN LINE WITH CURRENT LEGISLATION WHEN WORKING IN PUBLIC HIGHWAYS AND ON THE SEWERAGE SYSTEM.
 - THE CONTRACTOR SHALL ALLOW FOR OBTAINING ALL APPROVALS FROM THE RELEVANT AUTHORITIES WHEN WORKING IN THE PUBLIC HIGHWAY AND ON THE SEWERAGE SYSTEM.
 - THE CONTRACTOR SHALL SUITABLY PROTECT PEDESTRIANS AND VEHICLES FROM WORKING AREAS.
 - ALL MANHOLE/CHAMBER COVER LEVELS ARE APPROXIMATE AND SHALL BE ADJUSTED ON SITE TO SUIT THE PROPOSED FINISHED LEVEL.
 - ALL PIPES SHALL BE LAD WITH LEVELS, SLOPES AND ALL MANHOLE/INSPECTION CHAMBER RIVER LEVELS SHOWN ARE FOR THE OUT GOING PIPE LINE. ON THE DRAWING INDICATE THAT ALL PIPE GRADIENTS INDICATED ON THE DRAWING ARE APPROXIMATE ONLY.
 - ALL PIPE CONNECTION FROM DRAINAGE CHANNELS AND CHAMBERS SHALL BE 1000mm FREE AT A MINIMUM GRADIENT OF 1:100 WITH CLASS 2 BEDDING UNDO, ON THE DRAWING.
 - ALL PIPE CONNECTIONS FROM RWPS TO SUIT A 3000mm PIPE SHALL BE 1000 AT 1:40 MIN. WITH CLASS 3 BEDDING BENEATH THE BUILDING AND CLASS 2 UNDER EXTERIORS WHERE COVER LEVELS ARE LESS THAN 1.20m UNDO, ON THE DRAWING LOCATION OF RWPS AND RWPS TO BE CONFIRMED BY THE ARCHITECT AND ARE SHOWN INDICATIVELY ONLY.
 - ALL SYPHONIC RWP SYSTEMS TO BE DESIGNED BY OTHERS. PREPWORK FROM DOWN PIPE TO FIRST MANHOLE TO BE MADE/ DESIGNED BY SYPHONIC SYSTEM DESIGNER. THE FIRST MANHOLE TO HAVE AN OPEN GRATE COVER SANSI GOVERN WATERWAY 0000 - 1000 OR SIMILAR APPROVED.
 - SUITABLY SIZED PETROL INTERCEPTORS MUST COMPLY WITH THE REQUIREMENTS OUTLINE IN PP03 THESE INCLUDE SIFT STORAGE CAPACITY AND HIGH LEVEL HYDROCARBON ALARM WIRED BACK TO A MANNED OFFICE.
 - UPON COMPLETION OF THE DRAINAGE WORKS THE CONTRACTOR SHALL CLEAN ALL DRAIN RIMS BY JETTING AND REMOVE ALL DEBRIS FROM SITE. NO DEBRIS SHALL BE PERMITTED TO ENTER THE PUBLIC SEWER AND/OR WATERCOURSE SYSTEMS. ONCE THE DRAINAGE SYSTEM HAS BEEN FULLY CLEANED OUT A CITY CAMERA CONDITION SURVEY SHALL BE UNDERTAKEN TO ALL CONSTRUCTED DRAINAGE AND SEWER PIPES WITH THE FOOTAGE ISSUED TO THE ENGINEER FOR VIEW. THE AS BUILT RIVER AND COVER LEVELS SHALL BE RECORDED BY THE CONTRACTOR AND PASSED ON TO THE ENGINEER FOR REVIEW.

SEWER AND DRAIN TESTING NOTES

- ALL SEWERS AND DRAINS CONSTRUCTED AS PART OF THE CONTRACT SHALL BE TESTED AFTER THEY ARE JOINED AND BEFORE ANY CONCRETE OR BACKFILLING IS COMMENCED, OTHER THAN SUCH AS MAY BE NECESSARY FOR STRUCTURAL STABILITY WHILE UNDER TEST.
- TESTING SHALL BE IN ACCORDANCE WITH SIA AND BS EN 1610.
- TESTING OF PIPES UP TO AND INCLUDING 750mm NOMINAL DIAMETER SHALL BE BY MEANS OF AN AIR OR WATER TEST. FOR PIPES LARGER THAN 750mm NOMINAL DIAMETER A VISUAL EXAMINATION SHALL BE CARRIED OUT.
- A FURTHER TEST SHALL BE CARRIED OUT AFTER THE BACKFILLING IS COMPLETE.
- ADDITIONAL TESTING MAYBE REQUIRED AS INSTRUCTED BY THE WATER COMPANY AND/OR HIGHWAYS DEPARTMENT REPRESENTATIVE.
- AIR TESTS SHALL BE CARRIED OUT IN ACCORDANCE WITH SIA SECTION 5.7.4 AND BS EN 1610.
- WATER TESTS SHALL BE CARRIED OUT IN ACCORDANCE WITH SIA SECTION 5.7.2 AND BS EN 1610.
- VISUAL INSPECTIONS (CCTV SURVEY) SHALL BE CARRIED OUT BY A QUALIFIED AND APPROVED CONTRACTOR, AND IN ACCORDANCE WITH THE "WATER MODEL CONTRACT DOCUMENT FOR SEWER CONDITION INSPECTIONS".
- THE FOUL WATER RISING MAIN SHALL BE PRESSURE TESTED BY THE AEE CONTRACTOR AND CERTIFICATION PROVIDED TO THE WATER COMPANY. A REPRESENTATIVE FROM THE WATER COMPANY MAY NEED TO BE PRESENT DURING THE TESTING. THE CONTRACTOR SHALL LIAISE WITH THE WATER COMPANY INSPECTOR AS TO THESE REQUIREMENTS.

PUMPING STATION NOTES

- ALL PUMPING STATIONS TO BE PACKAGE TYPE PROVIDED WITH:
 - CONTROL PANEL AND WDEK
 - MONITOR VISUAL ALARM
 - REMOTE DIALLER/TELEMETRY LINK TO MONITORING STATION.
- FOUL WATER PUMP SYSTEMS SHALL HAVE A MINIMUM CRITICE OPENING OF 80mm AND TO BE A SUBMERGED PUMP.
- SURFACE WATER PUMP SYSTEMS SHALL HAVE A MINIMUM CRITICE OPENING OF 63mm.
- PUMP SUPPLIER TO PROVIDE DETAILS DRAWINGS FOR APPROVAL PRIOR TO MANUFACTURE.
- SEWER MAINS SIZES TO BE CONFIRMED BY PUMP SUPPLIER. RISING MAIN TO BE POLYETHYLENE AND SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 12444. COLOUR TO BE BLACK.
- POLYETHYLENE FITTINGS, INCLUDING FUSION JOINTS AND CORROSION FITTINGS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 12444.

NOTE: ALL HEADWALLS TO BE FITTED WITH HOPE TIDAL FLAP VALVES.



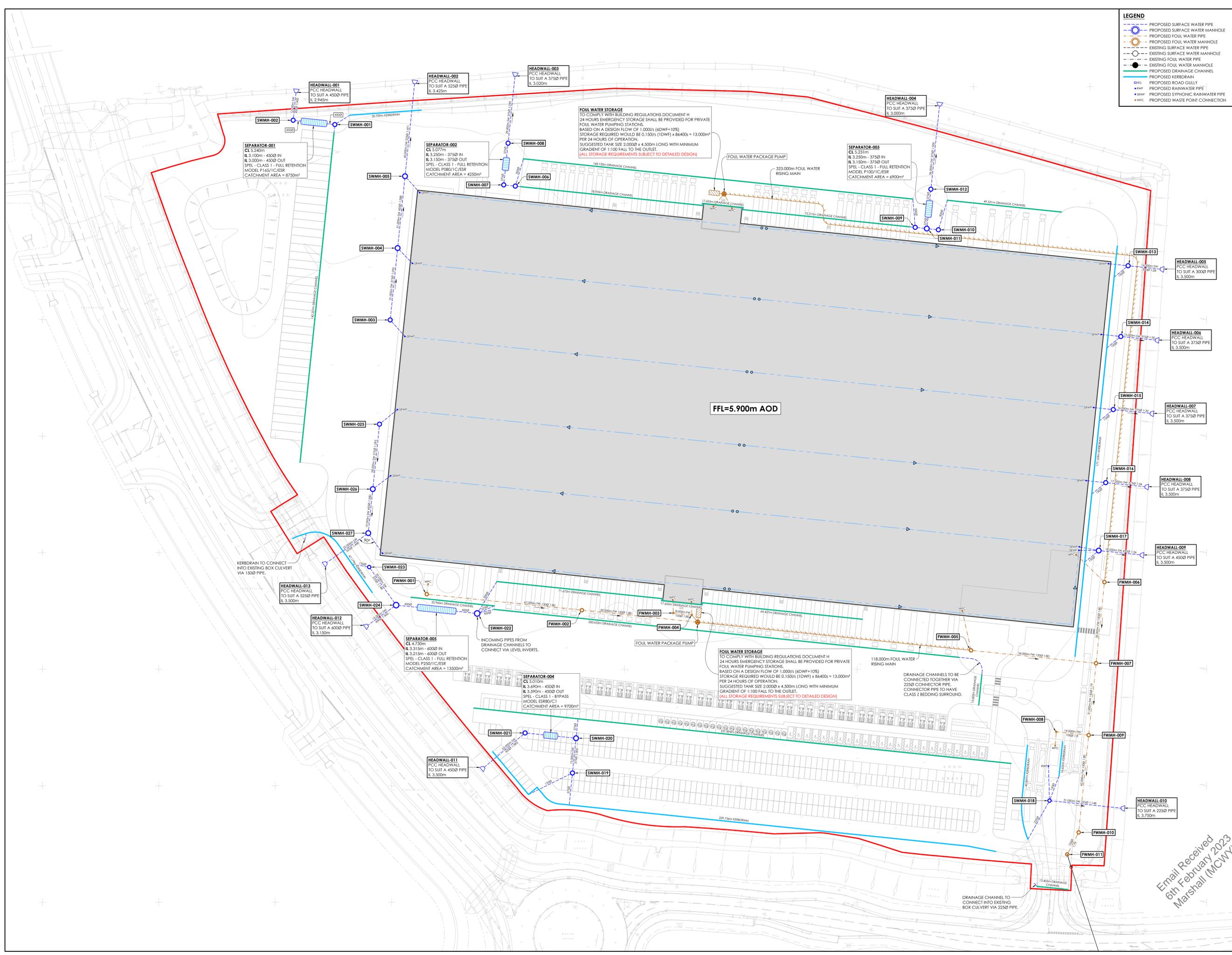
| REV | DESCRIPTION | DATE | CHK | BY |
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| P04 | FOUL WATER DRAINAGE UPDATED. | 06/02/23 | CPH | JAC |
| P03 | TENDER ISSUE | 02/02/23 | CPH | JAC |
| P02 | FOUL WATER DRAINAGE UPDATED. | 21/12/22 | CPH | JAC |
| P01 | FIRST ISSUE | 28/06/22 | RAW | JAC |

Project: PLOT B THE AIRFIELDS DESIDE
 Drawing Title: PROPOSED DRAINAGE LAYOUT

TENDER

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