



- NOTES
- DO NOT SCALE FROM THIS DRAWING.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND DOCUMENTS ASSOCIATED WITH THIS PROJECT.
 - ALL EXISTING AND PROPOSED DIMENSIONS, LEVELS AND LOCATIONS TO BE CHECKED AND VERIFIED BY THE MAIN CONTRACTOR ON SITE PRIOR TO THE COMMENCEMENT OF THE WORKS AND ANY ANOMALIES REPORTED TO THE ENGINEER.
 - ALL SURVEYED INFORMATION INCLUDING LEVELS AND LAYOUT IS PROVIDED BY OTHERS. COVER AND GROUND LEVELS ARE TO BE DETERMINED IN LINE WITH THE ARCHITECT AND LANDSCAPE ARCHITECTS EXTERNAL FINISH LEVELS.
 - ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
 - REINSTATEMENTS IN EXISTING VERGE AND OPEN FIELD AREAS ARE TO BE REINSTATED BACK TO EXISTING CONDITION, TOPSOILED AND SEEDED.
 - REINSTATEMENTS IN PUBLIC HIGHWAY AND ALL PERMANENT AND TEMPORARY REINSTATEMENT TO BE IN ACCORDANCE WITH NEW ROADS AND STREET WORKS ACT SPECIFICATION FOR THE REINSTATEMENT OF OPENINGS IN HIGHWAYS CODE OF PRACTICE PUBLISHED BY THE H.M.S.O. JUNE 1992.
 - ALL WORKS, WORKMANSHIP AND MATERIALS ON PRIVATE DRAINAGE TO BE IN ACCORDANCE WITH THE CIVIL ENGINEERING SPECIFICATION FOR WATER INDUSTRY 6TH EDITION PUBLISHED BY THE WATER RESEARCH COUNCIL.
 - ALL ADAPTABLE DRAINAGE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF 'SEWERS FOR ADOPTION' (16TH EDITION), AND THE RELEVANT UNDERTAKERS SAFETY POLICY.
 - ALL PIPEWORK BELOW 225mmØ TO BE DENSE VITRIFIED CLAYWARE PIPES EXTRA STRENGTH TO BS EN 295.
 - ALL PIPEWORK ABOVE 225mmØ TO BE DENSE VITRIFIED CLAYWARE EXTRA STRENGTH TO BS EN 295, OR CONCRETE PIPEWORK MANUFACTURED TO BS5911.
 - COVERS AND FRAMES TO BS EN 124 TO BE - DUCTILE IRON GRADE D400 IN CARRIAGEWAYS AND HARDSTANDINGS, GRADE C250 IN FOOTPATHS AND AREAS ADJACENT TO VEHICLE AREAS. GRADE A15 IN FOOTPATH AREAS INACCESSIBLE TO MOTOR VEHICLES. GRADE AA (1ST LOADING) RECESSED FABRICATED TO TAKE BLOCK PAVING INSETS IN FOOTPATH AREAS. GRADE A RECESSED FABRICATED TO ACCEPT ARCHITECTS FLOOR FINISHES TO INTERNAL AREAS, DUCT AND ACCESS TO BE DOUBLE SEALED WITH LOCK AND LIFTING EYES. EDGING FINISH TO ARCHITECTS REQUIREMENTS.
 - TWO SETS OF KEYS TO BE PROVIDED FOR DIFFERENT KEY WAY TYPE.
 - PRE CAST CONCRETE COVER SLABS TO BE HEAVY DUTY IN AREAS ACCESSIBLE TO MOTOR VEHICLES. LIGHT DUTY IN AREAS INACCESSIBLE TO MOTOR VEHICLES. ALL TO BE KITHARKED TO BS EN 124:2002 OR BS EN 1914 OR BS EN ISO 9001:2000.
 - ALL MANHOLE ACCESS OPENINGS TO BE ECCENTRICALLY LOCATED EXCEPT FOR 900mmØ SHAFTS, WHICH ARE TO BE CENTRALLY LOCATED.
 - MANHOLE DIAMETER:-
 - LARGEST PIPE LESS THAN 375mmØ MANHOLE Ø=1200mmØ
 - 375mm-700mmØ MANHOLE Ø=1500mmØ
 - 750mm-900mmØ MANHOLE Ø=1800mmØ

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DRAWING STATUS
TENDER ISSUE
APPROVED BY: C. COLEMAN
DATE: 10/06/2011

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CLIENT	SOUTHEND FC		
PROJECT	FOSSETTS FARM SOUTHEND ON SEA		
DRAWN BY	J. BERRY 10.06.2011	CHECKED BY	G. COLEMAN 10.06.2011

TITLE DRAINAGE LAYOUT		
Sheet 1 of 2		
SCALE 1:500	DRAWING No UN14012-C-311	REV T1



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 4. ALL SURVEYED INFORMATION INCLUDING LEVELS AND LAYOUT IS PROVIDED BY OTHERS
 5. ALL EXISTING AND PROPOSED DIMENSIONS, LEVELS AND LOCATIONS TO BE CHECKED AND VERIFIED BY THE MAIN CONTRACTOR ON SITE PRIOR TO THE COMMENCEMENT OF THE WORKS AND ANY AMENDMENTS REPORTED TO THE ENGINEER
 6. THE CONTRACTOR IS TO CONFIRM POSITION, LEVELS, SIZE AND CONDITION OF EXISTING DRAINAGE TO BE UTILIZED FOR THE PURPOSES OF THE PROJECT PRIOR TO THE COMMENCEMENT OF DRAINAGE WORKS. SHOULD THE EXISTING POSITIONS, LEVELS, SIZE OR CONDITION NOT BE FIT FOR PURPOSE OR VARY FROM THAT SCHEDULED THE CONTRACTOR SHALL IMMEDIATELY ADVISE THE EMPLOYER'S AGENT AND SEEK INSTRUCTION OF HOW TO PROCEED
 7. THE BUILDING AND SITE LAYOUT IS PROVIDED BY THE ARCHITECT
 8. COVER LEVELS ARE TO BE DETERMINED IN LINE WITH THE ARCHITECT AND LANDSCAPE ARCHITECTS EXTERNAL FINISH LEVELS
 9. FOUL REST BEND LOCATIONS TO BE COORDINATED WITH THE ARCHITECT, M&E ENGINEER AND M&E SUB-CONTRACTOR. THE M&E ENGINEER SHALL PROVIDE DETAILS OF A VENT TO AIR AT THE HEAD OF ALL BELOW GROUND FOUL DRAIN RUNS, AS REQUIRED
 10. REINSTATEMENTS IN EXISTING VERGE AND OPEN FIELD AREAS ARE TO BE REINSTATED BACK TO EXISTING CONDITION, TOPSOILED AND SEED
 11. REINSTATEMENTS IN PUBLIC HIGHWAY AND ALL PERMANENT AND TEMPORARY REINSTATEMENT TO BE IN ACCORDANCE WITH NEW ROADS AND STREET WORKS ACT SPECIFICATION FOR THE REINSTATEMENT OF OPENINGS IN HIGHWAYS CODE OF PRACTICE PUBLISHED BY THE H.M.S.O. JUNE 1992
 12. ALL WORKS, WORKMANSHIP AND MATERIALS ON PRIVATE DRAINAGE TO BE IN ACCORDANCE WITH THE CIVIL ENGINEERING SPECIFICATION FOR WATER INDUSTRY 6TH EDITION PUBLISHED BY THE WATER RESEARCH COUNCIL
 13. ALL ADOPTABLE DRAINAGE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF 'SEWERS FOR ADOPTION' 6TH EDITION
 14. ALL PIPEWORK DIAMETERS LESS THAN 225mm TO BE DENSE VITRIFIED CLAYWARE PIPES EXTRA STRENGTH TO BS EN 295
 15. ALL PIPEWORK DIAMETERS GREATER THAN 225mm TO BE DENSE VITRIFIED CLAYWARE EXTRA STRENGTH TO BS EN 295, OR CONCRETE PIPEWORK MANUFACTURED TO BS5911
 16. THE ENTIRE COMPLETED DRAINAGE NETWORK IS TO BE THOROUGHLY CLEANED OUT BY HIGH PRESSURE JETTING AND SUBJECTED TO A CCTV SURVEY, WITH VIDEO RECORDINGS AND REPORTS TO BE MADE AVAILABLE TO THE EMPLOYER'S AGENT PRIOR TO SUBSTANTIAL COMPLETION AND END OF MAINTENANCE CERTIFICATES BEING ISSUED
 17. ALL GULLIES ARE TO BE CLEANED OUT AND FILLED WITH WATER TO TOP OF TRAP PRIOR TO COMPLETION
 18. ALL GULLY AND CHANNEL DRAIN CONNECTIONS TO BE 1500 WITH A MINIMUM GRADIENT OF 1:80 UNLESS SHOWN OTHERWISE
 19. ALL SOIL AND FOUL DRAINS SHALL BE 1000 UNLESS SHOWN OTHERWISE
 20. ALL SOIL AND FOUL DRAINS BELOW FLOOR SLABS SHALL BE 1000 AND LAID TO A GRADIENT OF 1:40 UNLESS SHOWN OTHERWISE
 21. ALL PIPEWORK NOT DIRECTLY CONNECTED TO A MANHOLE MUST BE PROVIDED WITH RODDING ACCESS
 22. M&E'S RELATE TO OUTGOING MAIN PIPE, WHERE INCOMING PIPES ARE OF A SMALLER DIAMETER TO OUTGOING PIPE THEY ARE TO BE POSITIONED WITH PIPE SOFFITS LEVEL
 23. THE STRENGTH OF PIPELINES HAS BEEN DESIGNED ON FINISHED SITE CONDITIONS AND NO ALLOWANCE HAS BEEN MADE FOR LOADINGS IMPOSED DURING CONSTRUCTION. THE MAIN CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT THE PIPE LINES DURING THE CONSTRUCTION OF THE WORKS
 24. CONCRETE SURROUND TO PIPELINES SHALL BE PROVIDED:
A) WHERE THE DEPTH OF COVER IS LESS THAN 1.2m BELOW VEHICULAR AREAS
B) WHERE THE DEPTH OF COVER IS LESS THAN 0.9m BELOW NON VEHICULAR AREAS
C) BENEATH BUILDINGS
 25. RWP AND FW PENETRATIONS HAVE BEEN ASSUMED AND WILL NEED CONFIRMING BY OTHERS PRIOR TO CONSTRUCTION. FW FLOW RATES HAVE BEEN ASSUMED AND WILL NEED CONFIRMING BY THE PUBLIC HEALTH ENGINEERS, OR THE M&E CONSULTANT (PIPE-CONTRACT ONLY), OR THE M&E SUB-CONTRACTOR (POST-CONTRACT). WHERE THE INFORMATION REQUIRED IS IN CONNECTION WITH WORKS NOT FORMING PART OF THIS CONTRACT, THE CONTRACTOR IS TO SEEK GUIDANCE AND INSTRUCTION FROM THE EMPLOYER'S AGENT
 26. THE ADOPTABLE PUMPING STATION DETAILS AND OUTFALL LOCATIONS ARE SUBJECT TO ANGLIAN WATER APPROVAL AND ARE SHOWN ON HERE AS AN INDICATION FOR PRICING ONLY
- KEY:
- PROPOSED SURFACE WATER DRAIN
 - PROPOSED FOUL WATER DRAIN
 - PROPOSED FOUL RISING MAIN, OPTION 1
 - PROPOSED FOUL RISING MAIN, OPTION 2

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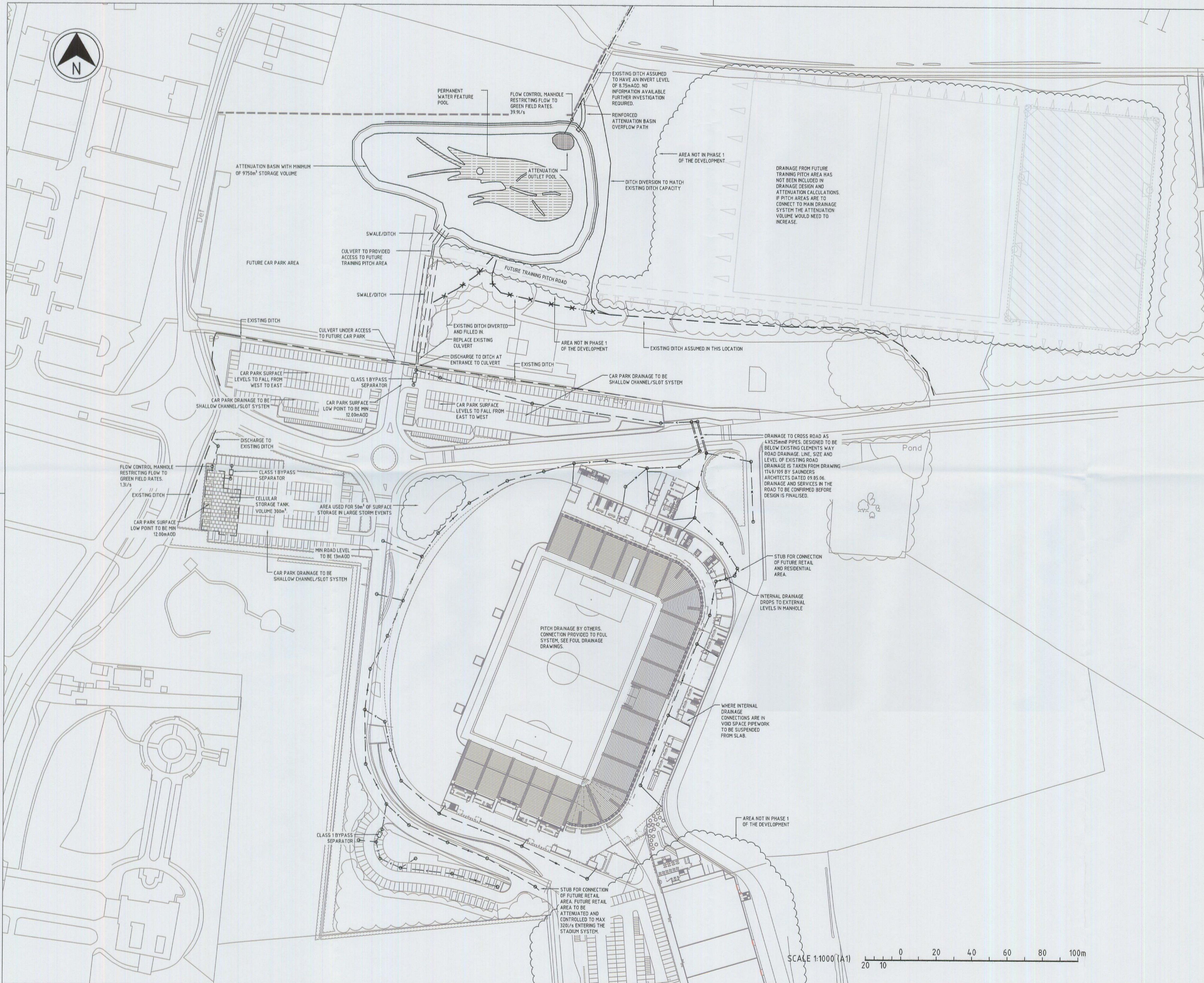


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CLIENT	SOUTHEND FC		
PROJECT	FOSSETTS FARM SOUTHEND ON SEA		
DRAWN BY	S.MCLEAN 13.06.2011	CHECKED BY	G.COLEMAN 13.06.2011

TITLE **DRAINAGE
FOUL WATER
GENERAL ARRANGEMENT**

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CLIENT
SOUTHEND FC
PROJECT
**FOSSETTS FARM
SOUTHEND ON SEA**
DRAWN BY
J. BERRY
10.06.2011
CHECKED BY
G. COLEMAN
10.06.2011

TITLE
**DRAINAGE
GENERAL ARRANGEMENT**

SCALE
1:1000
DRAWING No
UN14012-C-310
REV
T1

SCALE 1:1000 (A1)
0 20 40 60 80 100m