

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS AND ARCHITECTS DETAILS.

2. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT BRITISH STANDARDS, CODES OF PRACTICE AND BUILDING REGULATIONS.

3. THE EXACT POSITION, LEVEL, SIZE AND USE OF CONNECTIONS TO BE CONFIRMED ON SITE. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER PRIOR TO COMMENCEMENT OF WORKS.

4. ALL UNCOVERED AND SHALLOW PIPEWORK TO BE PROTECTED AGAINST CONSTRUCTION TRAFFIC AS PART OF THE CONTRACTORS TEMPORARY WORKS REQUIREMENTS.

5. PROPOSED DRAINAGE PASSING THROUGH NEW FOUNDATIONS TO BE SLEEVED WITH CAST-IN OVERSIZED PIPEWORK.

6. EXIST LOCATION LINE AND LEVEL OF EXISTING STUBS TO EXISTING MANHOLES IN THE ROAD TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.

7. COVER LEVELS SHOWN ARE APPROXIMATE ONLY. SUBJECT TO THE ARCHITECT'S EXTERNAL WORKS AND LANDSCAPING SCHEME.

8. SEE ARCHITECT'S DETAILS FOR ALL SETTING OUT DIMENSIONS TO BUILDINGS AND BOUNDARIES ETC.

9. ALL CONNECTIONS TO ROAD GULLIES AND CHANNELS SHALL BE 150MM NOMINAL BORE PIPEWORK. CONNECTIONS TO RWP'S TO BE 100MM NOMINAL BORE PIPEWORK SUBJECT TO THE CONFIRMED RWP SIZES AND RIVER DESIGN FLOW. NO PIPE WORK TO BE DOWNSIZED IN THE DIRECTION OF FLOW.

10. CONNECTIONS TO Foul TERMINAL FITTINGS TO BE 100MM NOMINAL BORE PIPEWORK SUBJECT TO CONFIRMATION OF ABOVE GROUND PIPE DIAMETERS AND RIVER DESIGN FLOW. NO PIPE WORK TO BE DOWNSIZED IN THE DIRECTION OF FLOW.

11. ALL UN-UNNOTED PIPEWORK TO BE 100MM DIA. UNLESS SUBJECT TO THE NOTES ABOVE.

12. ALL PIPEWORK TO BE U-PVC TYPE IN ACCORDANCE WITH W5 435-01 UNLESS OTHERWISE NOTED.

13. PIPES UP TO AND INCLUDING 150MM DIA. TO BE 28KNM STRENGTH CLAYWARE TO BS EN 255; 1991.

14. AS AN ALTERNATIVE TO U-PVC, PIPES UP TO AND INCLUDING 150MM DIA. MAY BE 28KNM STRENGTH CLAYWARE TO BS EN 255; 1991.

15. PIPES ABOVE 150MM DIA. AND UP TO AND INCLUDING 300MM DIA. TO BE 36KNM STRENGTH CLAYWARE TO BS EN 255; 1991.

16. AS AN ALTERNATIVE TO U-PVC, PIPES ABOVE 150MM DIA. AND UP TO AND INCLUDING 300MM DIA. MAY BE 36KNM STRENGTH CLAYWARE TO BS EN 255; 1991.

17. PIPES ABOVE 300MM DIA. TO BE CLASS M (SPR) CONCRETE PIPES TO BS 5911 WITH SPIGOT AND SOCKET FLEXIBLE JOINTS.

18. ALL PIPES UNDER BUILDINGS WITHOUT SUSPENDED FLOORS SHALL HAVE CLASS S BEDDING.

19. AS AN ALTERNATIVE TO U-PVC, PIPES ABOVE 300MM DIA. MAY BE CLASS M (SPR) CONCRETE PIPES TO BS 5911 WITH SPIGOT AND SOCKET FLEXIBLE JOINTS.

20. ALL PIPEWORK ENTERING AND EXITING MANHOLES TO BE CONNECTED WITH PIPE SOFFITS LEVEL.

21. PRE-FORMED CHANNELS TO BE USED AT ALL MANHOLES.

22. HIGH STRENGTH CONCRETE BENCHING TO BE STEEL TROWELLED TO A DENSE SMOOTH FACE NEATLY SHAPED AND FINISHED TO ALL BRANCH CONNECTIONS AND LAID IN ACCORDANCE WITH THE SPECIFICATION.

23. PIPE BENDS TO BE PROVIDED TO SUIT DIRECTION OF FLOW.

24. ALL MANHOLE COVERS AND MANHOLE FRAMES TO BE DUCTILE IRON HEAVY DUTY GRADE D400 DOBLED TRIANGULAR TO BS EN 124 UNLESS OTHERWISE NOTED.

25. GULLY TOPS AND MANHOLE COVERS TO BE PROVIDED IN ACCORDANCE WITH BS EN24....

26. ALL MANHOLE COVERS LOCATED INTERNALLY, TO BE RECESSED, DOUBLE SEAL, AIRTIGHT TYPE, ALUMINIUM OR STEEL, RECESS DEPTH TO ARCHTS REQUIREMENTS TO SUIT FINISHES ETC.

27. ALL NEW DRAINAGE TO BE CONSTRUCTED ADJACENT TO NEW AND PROPOSED PLANTING TO BE PROTECTED AGAINST ROOT ACTIVITY USING 'ROOTCONTROL' ROOF BARRIER MATERIAL BY GREEN-TECH. ALL IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

28. FIRST FLEXIBLE JOINT IN PIPES ADJACENT TO A MANHOLE SHALL BE MAX. FROM INSIDE FACE OF MANHOLE, CONNECTING TO ROCKER PIPE, FOR PIPE DIAMETERS 150MM - 450MM THE ROCKER PIPE LENGTH AND GROUND IS TO BE MARKED EACH SIDE OF THE OPENING WITH GULLY SHEET MATERIAL. PIPES EMBEDDED IN GULLY SHALL HAVE A JOINT FORMED AT THE END OF EACH WALL FACE. A ROCKER PIPE OF MAXIMUM 500MM LENGTH SHALL BE USED TO CONTINUE THE PIPEWORK.

29. MANHOLES WITH OUTGOING PIPES GREATER THAN 600MM DIA. SHALL BE FITTED WITH GUARD BARS, SAFETY CHAINS OR OTHER APPROVED SAFETY DEVICES.

30. ALL SOFT SPOTS ENCOUNTERED IN THE TRENCH FORMATION TO BE REMOVED AND REPLACED WITH HARD GRANULAR MATERIAL UNLESS INSTRUCTED OTHERWISE.

31. WHERE A PIPE PASSES THROUGH A WALL AN OPENING IS TO BE FORMED THROUGH THE WALL TO GIVE AT LEAST 50MM CLEARANCE AROUND THE PIPE. BRICKWORK OVER SHALL BE SUPPORTED BY A LINTEL. THE OPENING IS TO BE MARKED EACH SIDE OF THE OPENING WITH GULLY SHEET MATERIAL. PIPES EMBEDDED IN WALLS SHALL HAVE A JOINT FORMED AT THE END OF EACH WALL FACE. A ROCKER PIPE OF MAXIMUM 500MM LENGTH SHALL BE USED TO CONTINUE THE PIPEWORK.

32. WHERE A PIPE TRENCH IS WITHIN 1M OF A BUILDING, THE PIPE IS TO BE PROVIDED WITH CONCRETE PROTECTION AND THE TRENCH FILLED WITH CONCRETE TO A LEVEL BELOW EACH SIDE OF THE EQUAL TO THE DISTANCE FROM THE BUILDING LESS 150MM.

33. WHERE THE FORMATION OF A PIPE TRENCH IS ABOVE ORIGINAL GROUND LEVEL, LEVELS ARE TO BE MADE UP TO COMPLY DTP 7.2 TYPE 2 MATERIAL OR BETTER.

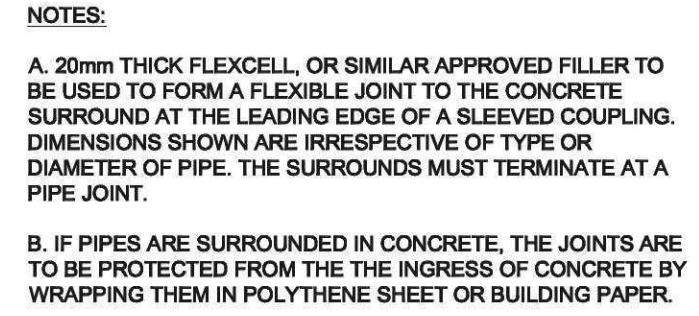
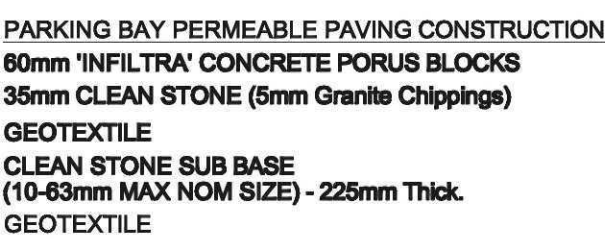
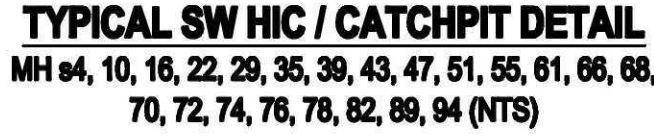
34. INSPECTION CHAMBERS LOCATED WITHIN GARAGES ARE TO HAVE DOUBLE SEAL BOLT DOWN COVERS.

35. ALL PRIVATE DRIVES WHICH FALL TOWARDS A PUBLIC HIGHWAY AND EXCEED TWO PARKING BAYS IN AREA ARE TO BE PROVIDED WITH A SUITABLE GULLY OR DRAINAGE CHANNEL TO PREVENT WATER DISCHARGING ONTO THE HIGHWAY.

36. WHERE A DRIVEWAY FALLS TOWARDS A DWELLING IT SHALL BE PROVIDED WITH A SUITABLE GULLY OR DRAINAGE CHANNEL TO PREVENT WATER DAMAGING THE BUILDING.

37. ALL BURIED CONCRETE MUST CATER FOR CLASS 2 SUBSOIL CONDITIONS IN ACCORDANCE WITH TABLE 1 OF BRE DIGEST 383.

- CONCRETE PROTECTION SHALL BE PROVIDED TO ALL PIPES WITH LESS THAN 300MM COVER IN PAVED AREAS, TO ALL PIPES WITH LESS THAN 600MM COVER IN PRIVATE DRIVEWAYS NOT USED BY COMMERCIAL VEHICLES, AND TO ALL PIPES WITH LESS THAN 1200MM COVER IN ROADS OR PRIVATE DRIVEWAYS USED BY COMMERCIAL VEHICLES. WHERE CONCRETE SURROUNDS OR SPECIFIC FLEXIBILITY OF JOINTS IS TO BE MAINTAINED BY USING COMPRESSIBLE BITUMEN IMPREGATED FIBREBOARD AT EACH POINT.
39. THE DESIGN OF ANY TEMPORARY WORKS REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
40. DO NOT SCALE THIS DRAWING. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE. ANY DISCREPANCIES ARE TO BE RECORDED AND REPORTED TO THE ENGINEERS IMMEDIATELY .
41. ALL WORK IS TO BE TO THE SATISFACTION OF THE ENGINEER AND THE LOCAL WATER AUTHORITY .
42. THE CONTRACTOR IS RESPONSIBLE FOR AND MUST TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE STABILITY OF THE WORKS AT ALL TIMES DURING CONSTRUCTION.
43. ALL WORKSMANSHIP AND MATERIALS ARE TO BE TO CURRENT BRITISH STANDARDS.
44. ALL SERVICES ARE TO BE LOCATED AND PROTECTED AS NECESSARY BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF THE WORKS.
45. ANY EXISTING DETAILS WHICH ARE SHOWN ON THIS DRAWING ARE FOR GUIDANCE ONLY AND ARE TO BE CHECKED ON SITE BY THE CONTRACTOR, ANY VARIATIONS ARE TO BE RECORDED AND REPORTED TO THE ENGINEER IMMEDIATELY.
- GENERAL ROAD NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE LOCAL HIGHWAY AUTHORITY DESIGN GUIDE AND THE GENERAL SPECIFICATION FOR ROADWORKS CURRENT AT THE TIME OF CONSTRUCTION.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE LOCAL HIGHWAY AUTHORITY'S STANDARD DOCUMENTS AND SATISFACTION, ANY REFERENCE TO THE SPECIFICATION SHALL MEAN THE GENERAL SPECIFICATION FOR ROADWORKS.
1. PRIOR TO ANY WORKS BEING CARRIED OUT WITH OR IMMEDIATELY ADJACENT TO THE PUBLIC HIGHWAY A SCHEME FOR THE SAFE CONTROL OF TRAFFIC AND PEDESTRIANS IS TO BE AGREED WITH THE HIGHWAY AUTHORITY AND IMPLEMENTED.
2. WORKING AREAS WITHIN THE VICINITY OF EXISTING TREES ARE TO BE AGREED WITH THE ENGINEER AND CHESTNUT FENCING ERECTED AS DIRECTED.
3. SPECIAL CARE IS TO BE TAKEN WHEN EXCAVATING IN THE VICINITY OF EXISTING TREES, IT IS NOT INTENDED THAT ANY TREE ROOTS SHOULD BE SEVERED OR DAMAGED AND SPECIALIST ADVICE SHOULD BE SOUGHT WHEN MAJOR ROOTS PRESENT A PROBLEM. CARE IS TO BE TAKEN TO AVOID DAMAGE TO BRANCHES AND FOLIAGE.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TRACE AND INDICATE THE PRECISE LOCATION AND NATURE OF ALL SERVICES.
5. THE CONTRACTOR IS TO PROVIDE A CCTV SURVEY OF ANY HIGHWAY SEVERED OR COMPLETION OF THE 12-MONTH MAINTENANCE PERIOD. THIS IS TO BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL WATER AND HIGHWAYS AUTHORITIES.
6. SAFE PASSAGE FOR PEDESTRIANS ACROSS THE SITE IS TO BE MAINTAINED AT ALL TIMES BY MEANS OF APPROVED FENCING TO BOTH SIDES OF ANY FOOTPATH ROUTE.
7. THE HEALTH AND SAFETY AT WORK ACT 1981 IS TO BE COMPLIED WITH AT ALL TIMES. ATTENTION IS DRAWN TO THE WEARING OF HARD HATS, REFLECTORISED CLOTHING, AND THE USE OF ANY OTHER REQUIRED SAFETY EQUIPMENT.
8. THE CONTRACTOR IS TO TAKE ACCOUNT OF THE SOILS REPORT.
9. NO COMPLETION WORKS WILL BE AUTHORISED UNTIL A FINAL CERTIFICATE OF CONFORMANCE TO RELEVANT SPECIFICATION IS RECEIVED FROM THE RELEVANT WATER AUTHORITY.
11. COMPACTION CONTROL SHALL BE ACHIEVED BY AIR VOID TESTING FOR BOTH ROADBASE AND BASECOURSE (MAXIMUM AIR VOID RATIO 6%)
12. ANY RECYCLED MATERIAL TO BE USED FOR HIGHWAY CONSTRUCTION PURPOSES WILL BE ALLOWED SUBJECT TO IT SATISFYING RELEVANT TESTS AS INSTRUCTED BY THIS AUTHORITY.
13. THE CONTRACTOR IS TO TAKE CAR TESTS AT ROAD FORMATION LEVEL, CAPPING LAYER LEVEL, AND SUB BASE LEVEL AND THE HIGHWAY ENGINEER INFORMED BEFORE ANY CONSTRUCTION WORKS CARRIED OUT AT THAT LEVEL.
14. ALL LEVELS AND DIMENSIONS ARE TO BE CHECKED ON SITE BEFORE ANY WORK COMMENCES.
- ROAD MARKINGS & TRAFFIC SIGNS**
- THE DEVELOPER SHALL CONSULT WITH THE HIGHWAY AUTHORITY OR ITS AGENT AND ARRANGE TO PROVIDE, AT HIS COST, ALL WHITE LINE CARRIAGEWAY MARKINGS AND TRAFFIC SIGNS AS MAY BE REQUIRED.
- STREET NAME PLATES**
- STREET NAME PLATES SHALL BE PROVIDED AND ERECTED BY THE DISTRICT COUNCIL ON A RECHARGEABLE BASIS OR AS OTHERWISE DIRECTED BY THE DISTRICT COUNCIL.
- STREET LIGHTING**
- HIGHWAY LIGHTING WILL NORMALLY BE DESIGNED BY THE HIGHWAY AUTHORITY OR ITS AGENT AND SHALL BE IN ACCORDANCE WITH THE AUTHORITIES COLOR CODE PRACTICE FOR LIGHTING OF CARRIAGEWAYS AND INSTALLED BY AN APPROVED CONTRACTOR.
- STATUTORY UNDERTAKERS**
- THE DEVELOPER SHALL BE RESPONSIBLE FOR LIAISON WITH THE STATUTORY UNDERTAKERS AND OTHER SERVICE PROVIDERS COMPANIES FOR THE PROVISION OF ALL REQUIRED SERVICES.



A) Drawing amended to suit L.C.C highway comments. LC.
29/06/11.
Revisions:

Drawing status **Tender**

Drawing title

Private Construction Details

Project title	
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**Lime Walk
Long Sutton
Lincolnshire**

<i>Drawn</i> DM	<i>Approved</i>
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Date 17/03/11	Drawing No WD/157/26
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Scale **As Shown @ A1**