DO NOT SCALE

## NOTES

1. This drawing to be read in conjunction with all relevant Architects, Engineers and Subcontractors drawings and details.
2. This drawing to based on topographical survey by
   Clugston Survey Services
   St. Vincent House
   Scunthorpe
   North Lincolnshire
   DN15 8QT

   Drawing No. 3100/001
   Dated 01-08-11
3. All levels relate to levels given on survey drawing.
4. Refer to Architects drawings for details of all paving types & patterns, soft landscaping, fences, gates & bollards.
5. For lighting, service supplies & ducting requirements, refer to M&E drawings.
6. All works to be carried out in accordance with Sewers for Adoption 6th Edition, BS EN 752 "Drain and sewer systems outside buildings" and the current edition of The Building Regulations "Approved document H".
7. New drainage connections are to be made with appropriate lengths of rocker pipes & couplings.
8. All manhole chamber covers to be installed parallel to final kerbs, edgings, paving joints or building lines as appropriate.
9. This drawing details all below ground drainage up to finished floor level. For details of drainage above finished floor level, refer to Architects drawings.
10. All stack connections under buildings to be minimum 100mm diameter solid PVC-U to BS EN 1401-1/BS4660 & laid at a minimum gradient of 1 in 40 unless otherwise noted. If the stack is greater than 100mm then the diameter of the connection is to be increased to match it.
11. All RWP connections to be minimum 100mm diameter solid PVC-U to BS EN 1401-1/BS4660 & laid at a minimum gradient of 1 in 80 unless otherwise noted. If the RWP is greater than 100mm then the diameter of the connection is to be increased to match it.
12. All private foul water pipework up to 150mm in diameter to be PVC-U to BS EN 1401-1/BS4660.
13. All private surface water pipework up to 150mm in diameter to be solid PVC-U to BS EN 1401-1/BS4660. All private surface water pipework 225mm and above to be structured wall plastic sewer pipe complying with clause 518 of the specification for highway works.
14. Plastic chambers shall comply with BS EN 1917 and BS 5911-3.
15. On completion of development all drainage shall be jet cleaned and CCTV surveyed.
16. Sewers marked to be removed are to be dug out with manholes demolished & void filled with suitable engineering fill material.

## KERB LEGEND

- K125 — 125x255 Precast concrete kerb type HB2, laid with 125mm upstand
- DK K00 DK — 125x150 Precast concrete kerb type BN, laid flush

## LEVELS LEGEND

- FFL.68.20 — Proposed finished floor level
- +68.00 — Proposed level
- + 67.20 — Existing level

## DRAINAGE LEGEND

- RG — Trapped road gully
- G — Trapped yard gully
- FG — Internal gully to Architects specification
- Surface water drain
- Foul water drain
- Grey water drain
- Grey water rising main
- SA — SW shallow inspection chamber
- SA — FW shallow inspection chamber
- SA — GW shallow inspection chamber
- S1 — Surface water inspection chamber
- F1 — Foul water inspection chamber
- G1 — Grey water inspection chamber
- Surface water catchpit manhole
- Surface water manhole
- Foul water manhole
- Grey water manhole
- ST — Surface water silt trap
- FW reduced access chamber
- Permeable paving to car parking bays with porous storage
- Tarmacadam circulation aisle with porous storage

F7 CL 68.05 IL 67.30

F8 CL 67.58 IL 66.58

S1 CL 67.50 IL 66.75

S2 CL. 67.15 IL 66.40

F5 CL 67.10 IL 65.60 TBC

S3 CP CL 67.15 IL 66.34 IL 65.84 (SUMP)

F4 CL 67.10 IL 65.66

S4 IL 66.32

CELLULAR STORAGE TANK 6.5m X 4.0m X 0.4m COVER LEVEL = 67.20 BASE LEVEL = 66.07

S5 CP HYDROBRAKE 1.2 L/S CL 67.30 IL 66.06 IL 65.56 (SUMP)

F3 CL 67.40 IL 65.86

F2 CL 68.06 IL 66.63

F6 CL 67.86 IL 66.66

G1 CL 68.05 IL 67.30

G2 CL 68.09 IL 67.27

G3 CL 68.05 IL 67.25

G4 CL 68.15 IL 67.15

G5 CL 68.10 IL 66.96

G7 CL 68.06 IL 66.77

F1 CL 68.05 IL 67.30

G6 CL 68.14 IL 66.83

F9 CL 67.80 IL 66.60

F10 CL 68.45 IL 67.75

F11 CL 68.28 IL 67.53

F12 CL 68.15 IL 67.11

S6 CL 68.45 IL 67.70

F13 CL 68.00 IL 66.80

F14 CL 68.35 IL 66.64

F15 CL 68.00 IL 66.42 BD IL TBC

EXFW01 CL 67.63 IL 66.70 BD IL 66.12

EXFW09 CL 68.11 IL 64.76

EXFW05 CL 67.05 IL 65.30

EXSW02 CL 67.31 IL 65.98

FFL.68.20

FFL.68.60

NEW FOUL WATER CONNECTION TO EXISTING FOUL WATER SPUR VIA CONSTRUCTION OF NEW MANHOLE. IL OF SPUR TO BE CONFIRMED PRIOR TO COMMENCEMENT OF DRAINAGE CONSTRUCTION.

NEW FOUL WATER CONNECTION TO EXISTING FOUL WATER SEWER VIA CONSTRUCTION OF NEW MANHOLE. IL OF EXISTING FOUL WATER SEWER TO BE CONFIRMED PRIOR TO THE COMMENCEMENT OF DRAINAGE CONSTRUCTION.

MANHOLE FITTED WITH NON RETURN VALVE TO SPECIALIST SUPPLIERS DETAILS TO BE INSTALLED WITHIN MANHOLE.

GREY WATER TREATMENT PLANT TO SPECIALIST SUPPLIERS DETAILS

GREY WATER INLET AND OUTLET IL 66.68

CATCHOIT MANHOLE FITTED WITH HYDROBRAKE FLOW CONTROL DEVICE TO RESTRICT SURFACE WATER FLOWS FROM DEVELOPMENT TO LESS THAN 1.2 L/S FOR ALL STORM RETURN PERIODS UP TO & INCLUDING THE 1 IN 100 YEAR EVENT PLUS 30% ALLOWANCE FOR FUTURE CLIMATE CHANGE.

NEW 150mm CONNECTIONTO EXISTING SURFACE WATER MANHOLE. LOCATION & LEVELS TBC PRIOR TO CONSTRUCTION

DUCT EMPTY

ELEC

A41 OXFORD ROAD

| MK | REVISION | DATE |
|---|---|---|

DRAWING TITLE

ENGINEERING LAYOUT

CONTRACT

PREMIER INN & BREWERS FAYRE BICESTER


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TENDER

| Drawn | Chkd. |
|---|---|
| TD | GC |
| Scales | Date |
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11582:100

A1