

NOTES

- The drawing to be read in conjunction with Eastwood & Partner's drawing numbers 38538/012, 013 & 014.
- All pipes shall be either :-
  - Verified clay to BS EN 256 with a minimum crushing strength as follows :-

|                    |                    |                    |
|--------------------|--------------------|--------------------|
| 150 dia. - 40 kN/m | 225 dia. - 45 kN/m | 300 dia. - 72 kN/m |
| QR                 | QR                 | QR                 |
  - B - Class H concrete to BS 5911.
  - C - P/C to have BS literature status (certified to WIS-4-55-01) Weather or similar approved. Maximum pipe length to be 5m.
- All pipes are to be laid swift to stiff at manholes unless noted otherwise.
- Pipes entering manholes and road gullies shall have a flexible joint within 600 of the inside of the manhole or gully joining with a short Rocker pipe.
- All pipes to be 100 dia, unless noted otherwise.
- All works and materials to be in accordance with 'Sewers for Adoption' (6th edition), bedded with a Class S granular bed and surround as a minimum requirement. Pipes within highways with cover less than 1200 to have a Class Z concrete bed and surround.
- Pipes within paved areas with cover less than 600 to have a Class Z concrete bed and surround. In landscaped areas with cover less than 300 to have a Class Z concrete bed and surround.
- All trenches in roads and paved areas shall be backfilled with Type 1 DO7 granular sub-base material.
- All cover levels are indicative only. Covers to be set to suit camber/gradient of existing and proposed surfacings.
- The invert levels at the proposed points of connection to existing drains shall be checked before any new drains are constructed. Any variation to the levels shown on the drawing shall be notified to Eastwood & Partners.

- Existing manhole removed and new manhole S16 constructed with new hydrocable device to restrict discharge to 19 litres/second at 2.2 m head.
- 20 cubic metres of storage (5m x 3.5m x 1.2m) provide using Aquadax Core proprietary units installed fully in accordance with manufacturer's recommendations, including wrapping with Geotextile and providing leveling as necessary. Underside of units at 130.45.
- 20 cubic metres of storage (5m x 3.5m x 2.0m) provide using Aquadax Core proprietary units installed fully in accordance with manufacturer's recommendations, including wrapping with Geotextile and providing leveling as necessary. Underside of units at 129.00.
- 2150 dia. overflow pipes from MH S7 to storage bed horizontal at L1 131.25 and 150 dia. drain down pipe from base of storage with flap valve within manhole.
- 68 cubic metres of storage (5m x 5m x 2.0m) provide using Aquadax Core proprietary units installed fully in accordance with manufacturer's recommendations, including wrapping with Geotextile and providing leveling as necessary. Underside of units at 129.00.
- 2150 dia. overflow pipes from MH S16 to storage bed horizontal at L1 130.85 and 150 dia. drain down pipe from base of storage with flap valve within manhole.
- Existing manhole removed and new manhole S16 constructed with new hydrocable device to restrict discharge to 19 litres/second at 2.2 m head.
- Manholes NSP9006 Class S16 concrete separate from alarm and vent pipe.
- Existing half barrier kept to be retained.
- New access path to fall away from existing kerb to new edging kerb.

- Existing surface water sewer.
- Existing surface water drain.
- Existing combined drain.
- Existing combined drain abandoned
- Surface water drainage.
- Foul drainage.
- Combined drainage.
- Road gully with 150 dia. noddable outlet
- Yard gully with 100 dia. noddable outlet
- ACO M1000 drainage channel with 150 dia. noddable sump outlets and Load Class C250 covers, installed fully in accordance with manufacturer's instructions.

| REV | DESCRIPTION  | SIG | CHK | DATE |
|-----|--------------|-----|-----|------|
| A   | First Issue. |     |     |      |

| RESILIENT | HOYLAND | SITE B | EXTERNAL DRAINAGE LAYOUT |
|-----------|---------|--------|--------------------------|
|-----------|---------|--------|--------------------------|

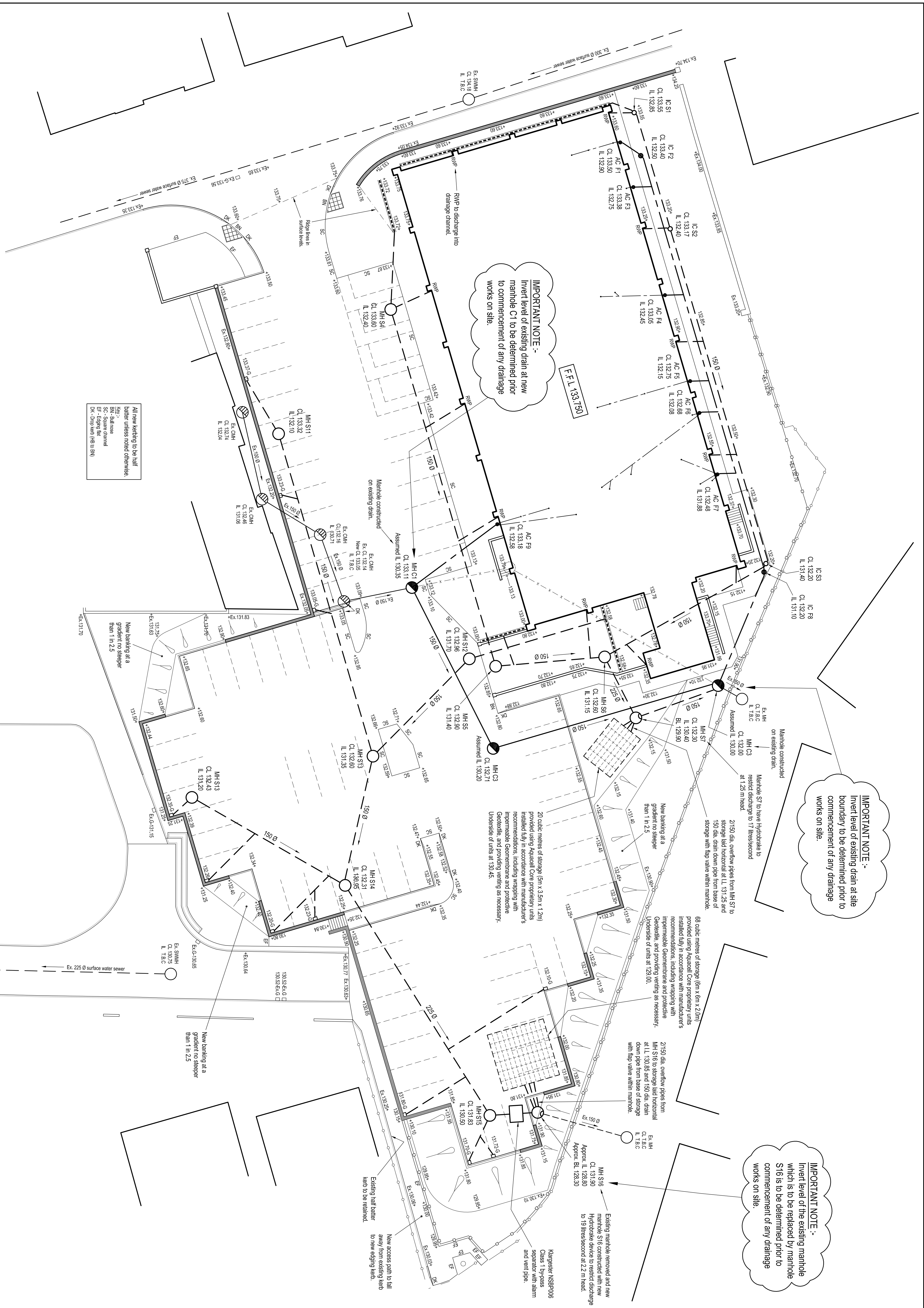
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**E&P**

Block paving to Architect's specification.  
Naturally occurring sand to BS 7533 Part 3, laid in accordance with BS 6717 Part 3.

Block paving to Architect's specification.  
Naturally occurring sand to BS 7533 Part 3, laid in accordance with BS 6717 Part 3.

| DRAWN | CHECKED | DATE     | DRAWING NUMBER | REV |
|-------|---------|----------|----------------|-----|
| MW    | S/E     | 09-09-15 | 38538/011      | A   |



| DEMOLITION WORKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SITE PREPARATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NEW SURFACING SPECIFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Within the area of the former chapel and market buildings, it has been assumed that the demolition Contractor is to cap off all the services at the site boundary and then carefully demolish the existing buildings, including the removal of the existing ground slabs and foundations. It has also been assumed that no raising of ground levels will be carried out in the demolition area, although selected demolition airings may be crushed and graded to 6F2 material and reused as backfill to the removed foundation excavations.<br><br>It is also assumed that no works are to be undertaken within the adjacent existing car park, although selected demolition airings may be crushed, graded and stockpiled on site for re-use within the proposed development works. | The post demolition surface within the area of the former chapel and market buildings is to be proof rolled, with any soft spots removed and replaced with approved material in 150 thick construction layers, before commencement of any new site drainage or car park construction works.<br><br>Areas of existing handrailings that are to become landscaped as part of the proposed development are to be removed down to suitable sub-soils and selected granular material reused as 6F2 fill to raise levels beneath new parking areas up to proposed formation level, i.e. - the underside of the new car park construction.<br><br>Areas of existing handrailings that are to remain beneath the proposed development car park are to be removed down to suitable sub-soils and selected granular material reused as 6F2 fill to raise levels beneath new parking areas up to proposed formation level, i.e. - the underside of the new car park construction. | <b>HIGHWAY CARRIAGEWAY CONSTRUCTION</b><br>40mm Surface Course AC10 Close surface 100/150 PSV +55 to BS EN13108-1.<br>70mm Bitder Course AC20 Dense binder 100/150 to BS EN13108-1.<br>120mm Base Course AC32 Dense base 100/150 to BS EN13108-1.<br>470mm Sub-base Type 1 granular sub-base to Specification for Highway Works Clause 803, to be free from extraneous matter.<br><br><b>HIGHWAY FOOTWAY CONSTRUCTION</b><br>25mm Surface Course AC20 Dense binder 100/150 to BS EN13108-1.<br>55mm Bitder Course AC20 Dense binder 100/150 to BS EN13108-1.<br>150mm Sub-base Type 1 granular sub-base to Specification for Highway Works Clause 803, to be free from extraneous matter.<br><br><b>HEAVY DUTY CAR PARK CONSTRUCTION</b><br>40mm Surface Course AC14 Close surface 100/150 PSV +55 to BS EN13108-1.<br>70mm Bitder Course AC28 Dense binder 100/150 to BS EN13108-1.<br>90mm Sub-base AC40 Dense base 100/150 to BS EN13108-1.<br>25mm Sub-base Type 1 granular sub-base to Specification for Highway Works Clause 803, to be free from extraneous matter.<br><br><b>LIGHT DUTY CAR PARK CONSTRUCTION</b><br>30mm Surface Course AC10 Close surface 100/150 PSV +55 to BS EN13108-1.<br>55mm Bitder Course AC20 Dense binder 100/150 to BS EN13108-1.<br>25mm Sub-base Type 1 granular sub-base to Specification for Highway Works Clause 803, to be free from extraneous matter.<br><br><b>BLACKTOP FOOTWAY CONSTRUCTION</b><br>60mm Surfacing Block paving to Architect's specification.<br>Naturally occurring sand to BS 7533 Part 3, laid in accordance with BS 6717 Part 3.<br><br><b>BLOCK PAVED FOOTWAY CONSTRUCTION</b><br>30mm Surfacing Block paving to Architect's specification.<br>Naturally occurring sand to BS 7533 Part 3, laid in accordance with BS 6717 Part 3.<br><br>Type 1 granular sub-base to Specification for Highway Works Clause 803, to be free from extraneous matter. |