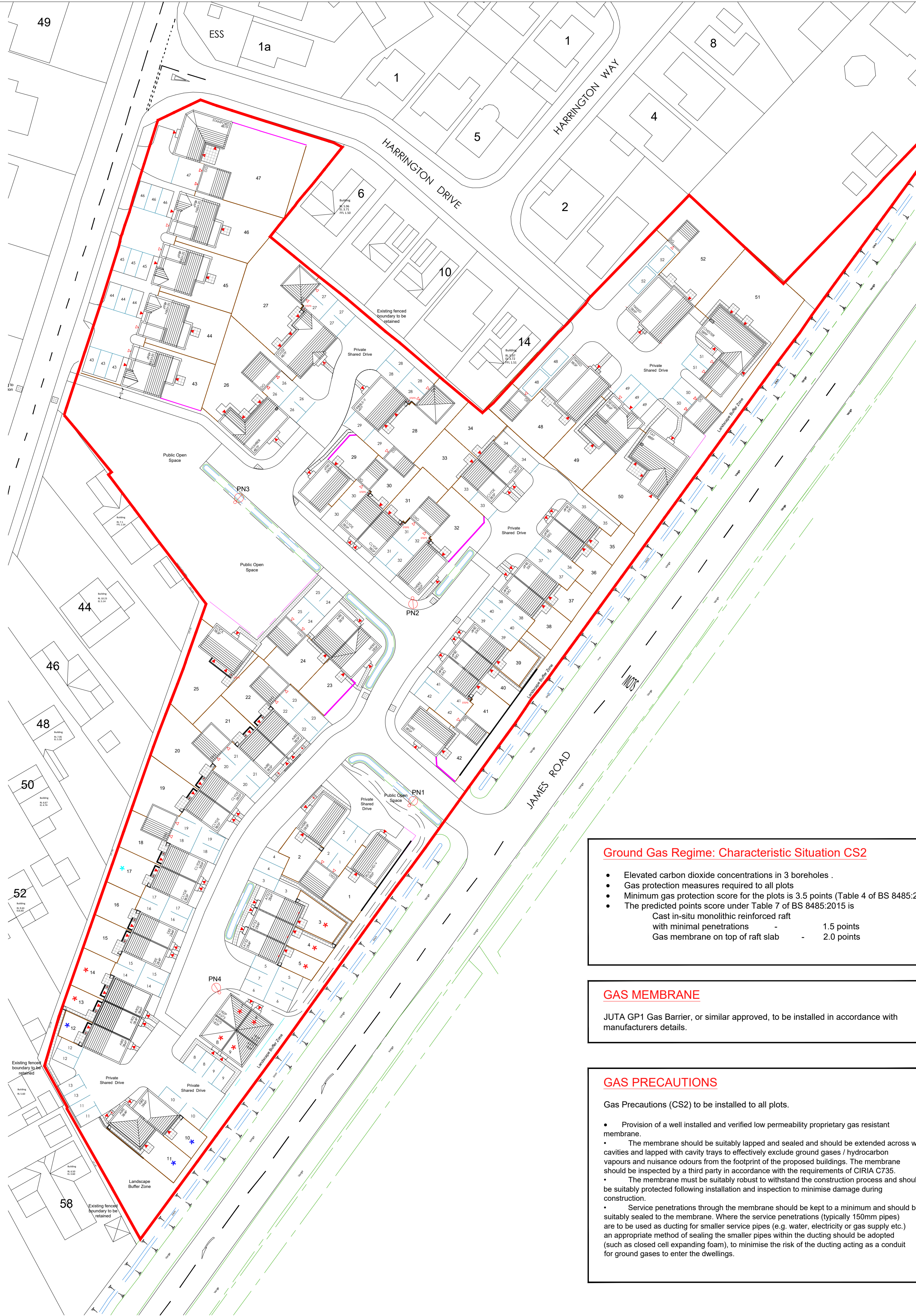
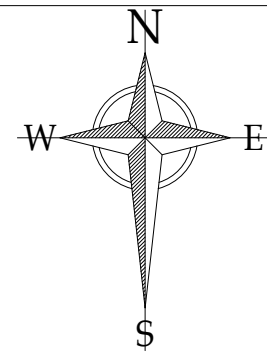


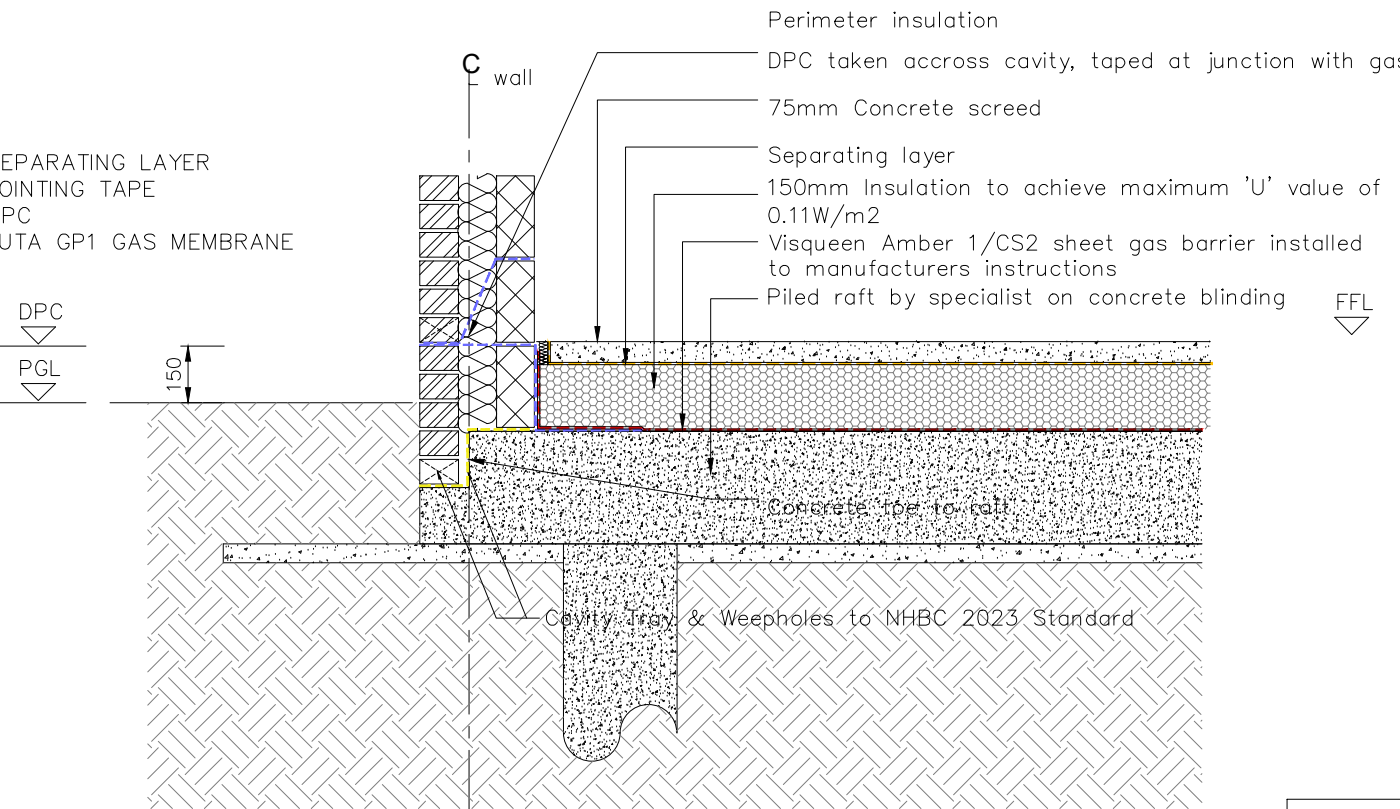
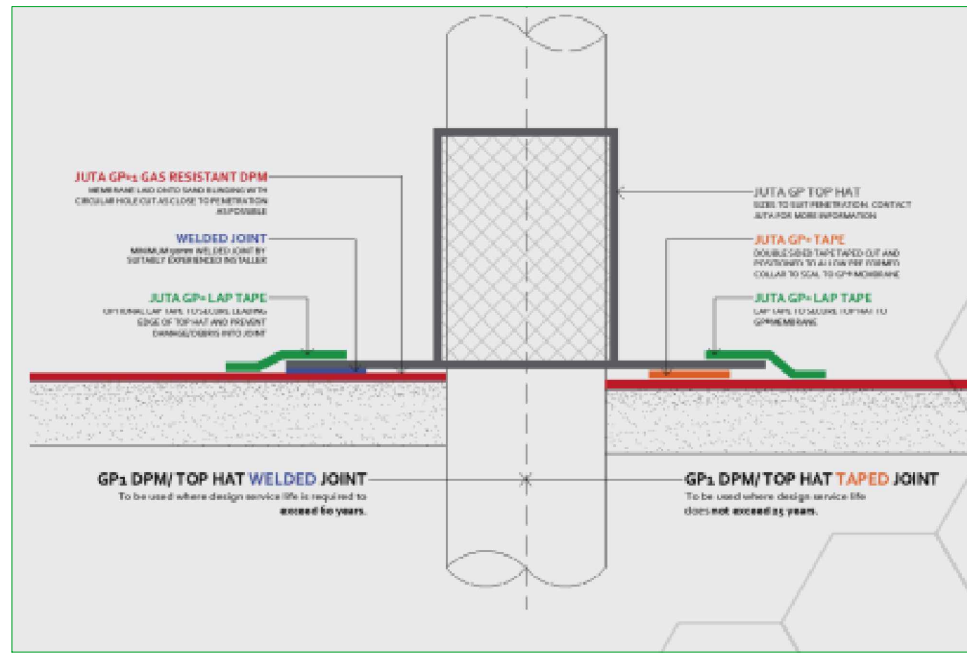
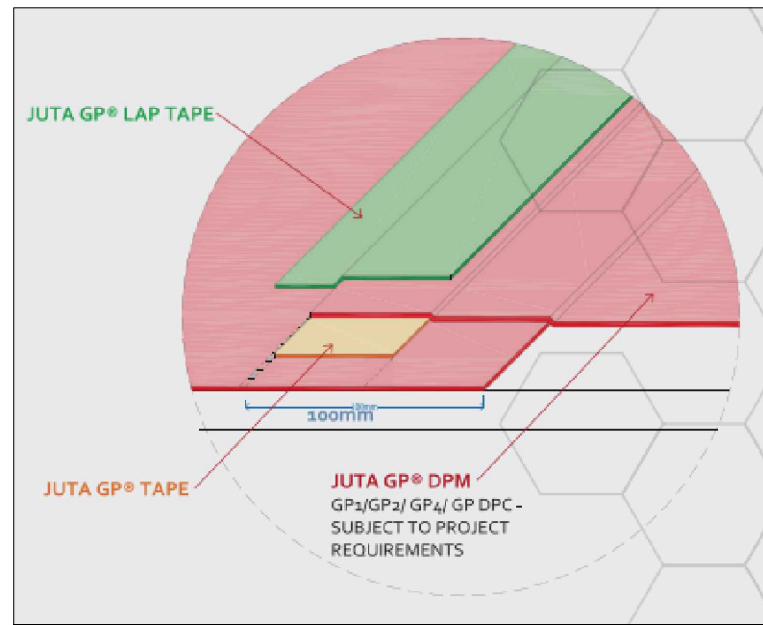
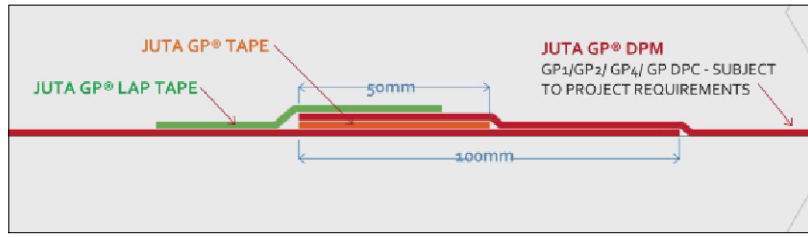
Verification approach - Visual Inspections

- Ground gas precautions to be installed and verified in accordance with Geodyne RMS
- All dwellings to have a well installed and verified low permeability proprietary gas resistant membrane validated by a third party and conforming to the requirements of Table 7 of BS8485 details of which are to be agreed with the local authority.
- Membrane to be installed in accordance with an agreed method statement prepared by the installer.
- The membrane should be suitably lapped and sealed and should be extended across wall cavities and lapped with cavity trays to effectively exclude ground gases from the footprint of the proposed buildings.
- Gas protection measures are to be installed in accordance with the requirements of CIRIA C735 'Good practice on the testing and verification of protection systems for buildings against hazardous ground gas' (2014).
- Gas protection measures are to be installed by a suitably qualified & experienced specialist contractor in a quality controlled/quality assured manner.
- Membrane to be suitably robust to withstand construction process and should be suitably protected following installation and inspection to minimise damage.
- Installed gas protection measures should be visually checked and verified by the installer and an appropriate third party.
- The verifier should check adherence to the agreed specification and visually inspect key areas, such as membrane integrity, seals at pipe penetrations and corner details.
- Defects must be corrected and works rechecked before final 'sign-off' reporting.
- All reports should include the materials used, visual inspection of the joints, visual inspection of the seals around penetrations, records of any deviation from the construction drawings, records of any non-compliance and corrective action taken, the verifier's signature and photographs as supporting evidence.



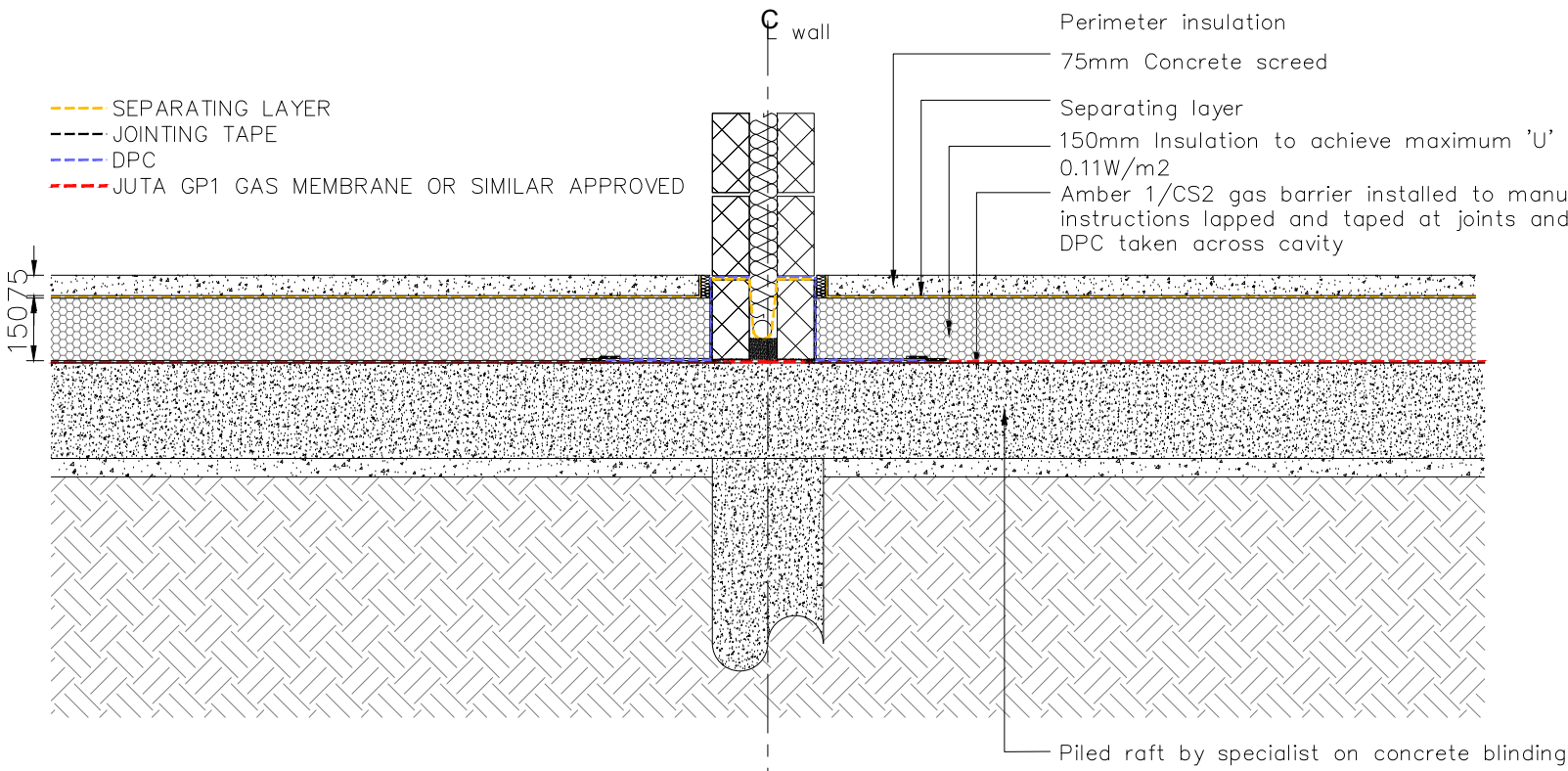
ALL WORKS IS TO BE IN STRICT ACCORDANCE WITH SPECIALIST MANUFACTURERS RECOMMENDATIONS AND INSTRUCTIONS.

IN ALL CIRCUMSTANCES, THE MEMBRANE SHOULD BE PROTECTED AS SOON AS POSSIBLE AFTER VERIFICATION TO PREVENT FUTURE DAMAGE



Typical Section A-A
scale 1:20

Refer to AH-SDPD-01 and
AH-SDPD-02 for standard
SpeedDeck floor - wall details



Typical Section B-B
scale 1:20

Ground Gas Regime: Characteristic Situation CS2

- Elevated carbon dioxide concentrations in 3 boreholes .
- Gas protection measures required to all plots
- Minimum gas protection score for the plots is 3.5 points (Table 4 of BS 8485:2015)
- The predicted points score under Table 7 of BS 8485:2015 is
 - Cast in-situ monolithic reinforced raft with minimal penetrations - 1.5 points
 - Gas membrane on top of raft slab - 2.0 points

GAS MEMBRANE

JUTA GP1 Gas Barrier, or similar approved, to be installed in accordance with manufacturers details.

GAS PRECAUTIONS

Gas Precautions (CS2) to be installed to all plots.

- Provision of a well installed and verified low permeability proprietary gas resistant membrane.
- The membrane should be suitably lapped and sealed and should be extended across wall cavities and lapped with cavity trays to effectively exclude ground gases / hydrocarbon vapours and nuisance odours from the footprint of the proposed buildings. The membrane should be inspected by a third party in accordance with the requirements of CIRIA C735.
- The membrane must be suitably robust to withstand the construction process and should be suitably protected following installation and inspection to minimise damage during construction.
- Service penetrations through the membrane should be kept to a minimum and should be suitably sealed to the membrane. Where the service penetrations (typically 150mm pipes) are to be used as ducting for smaller service pipes (e.g. water, electricity or gas supply etc.) an appropriate method of sealing the smaller pipes within the ducting should be adopted (such as closed cell expanding foam), to minimise the risk of the ducting acting as a conduit for ground gases to enter the dwellings.

Rev.	Date	Description



1 Goodison Road, Lincs Gateway Business Park,
Spalding, Lincs, PE12 6FY T: 01406 490590

PROJECT:
Proposed Residential
Development at
Harrington Drive, Crowland

DRAWING:
Gas Membrane Details

SCALE: 1:500@A1 DRAWN: GB

DATE: NOVEMBER.2023 REVISION: /

DRAWING No: 132-GMD-01