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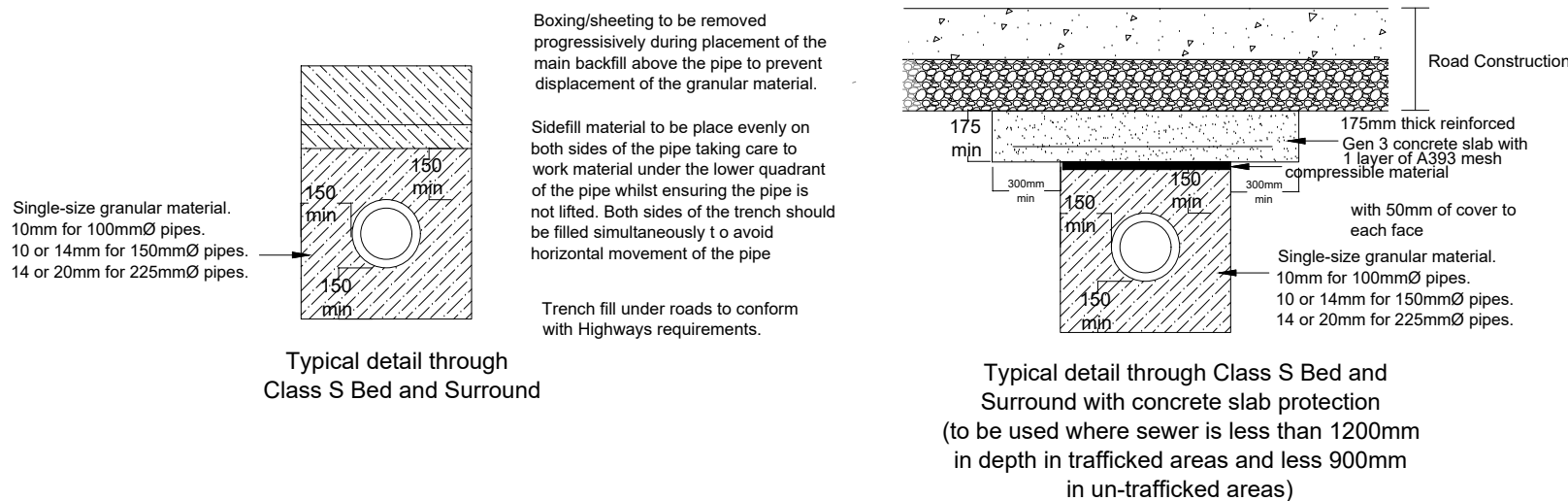
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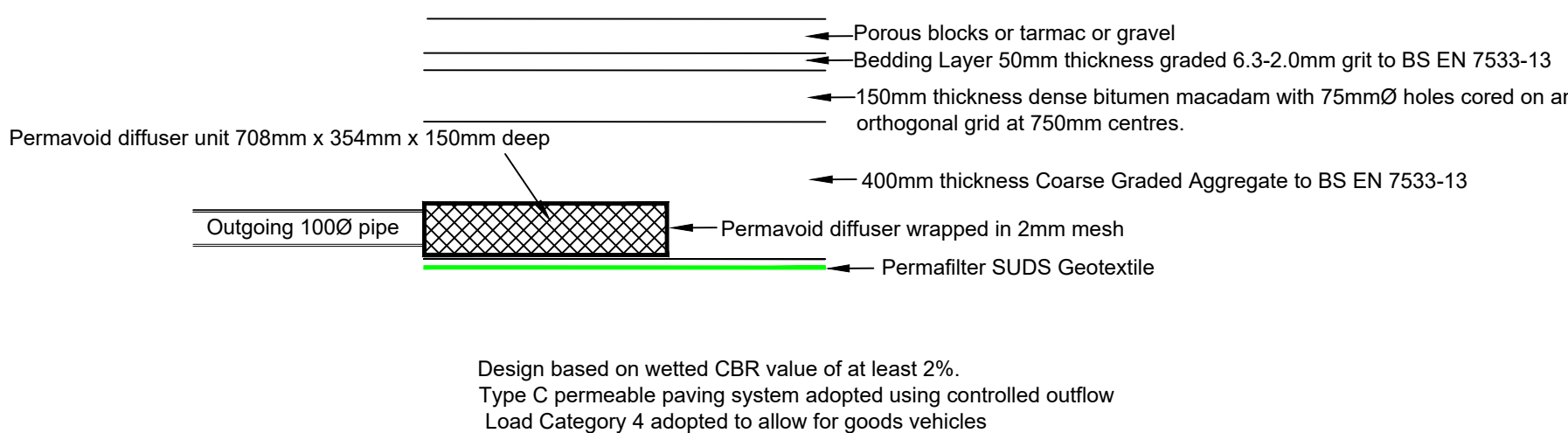
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### Pipe surround details



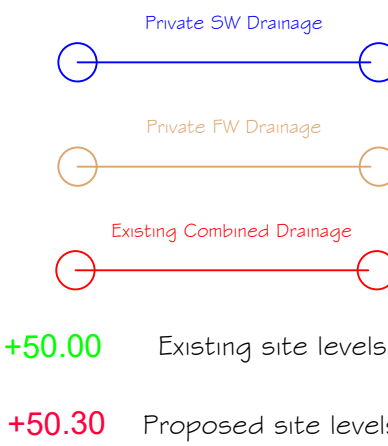
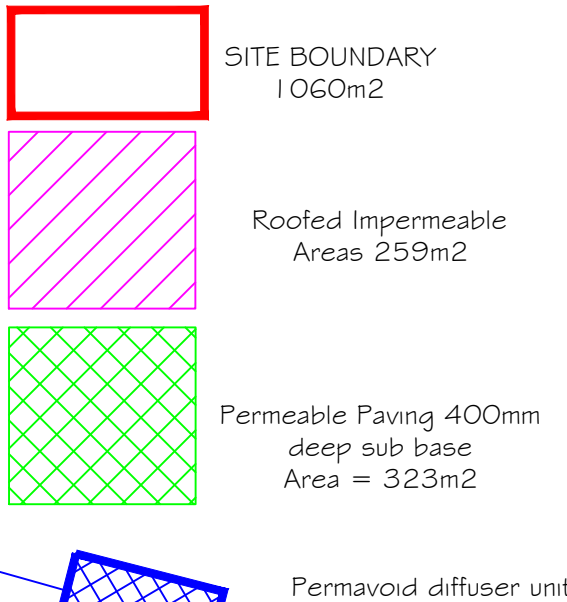
### PERMEABLE PAVING DETAIL



### NOTES

1. Yard, roadway and car park surfacing design and construction to Engineer's Specification (by others).
2. All dimensions are in millimeters unless otherwise stated.
3. Pre-cast concrete products shall comply with the relevant provisions of BS 5911 and be 'Kite Marked'.
4. Manhole covers and frames, grids and frames shall comply with the relevant provisions of BS EN 124. D400 class manhole cover to be used within trafficked areas.
5. All ironwork within the adoptable highway and verges to be class D400.
6. All manholes and other ironwork within the highway to be bedded on M60 Epoxy mortar (to prevent progressive collapse in the future).
7. Do not scale from this drawing. If in doubt ask.

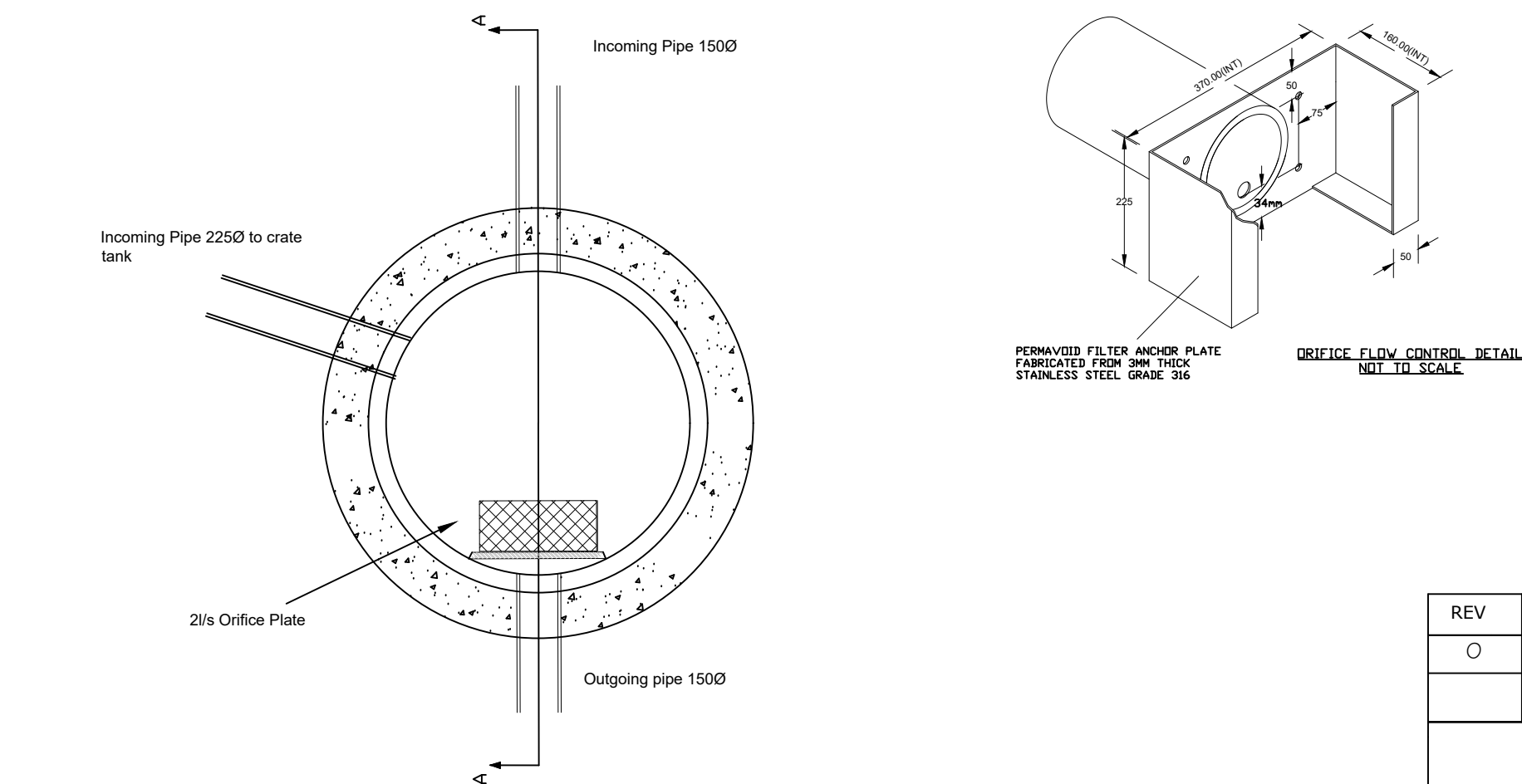
#### KEY:



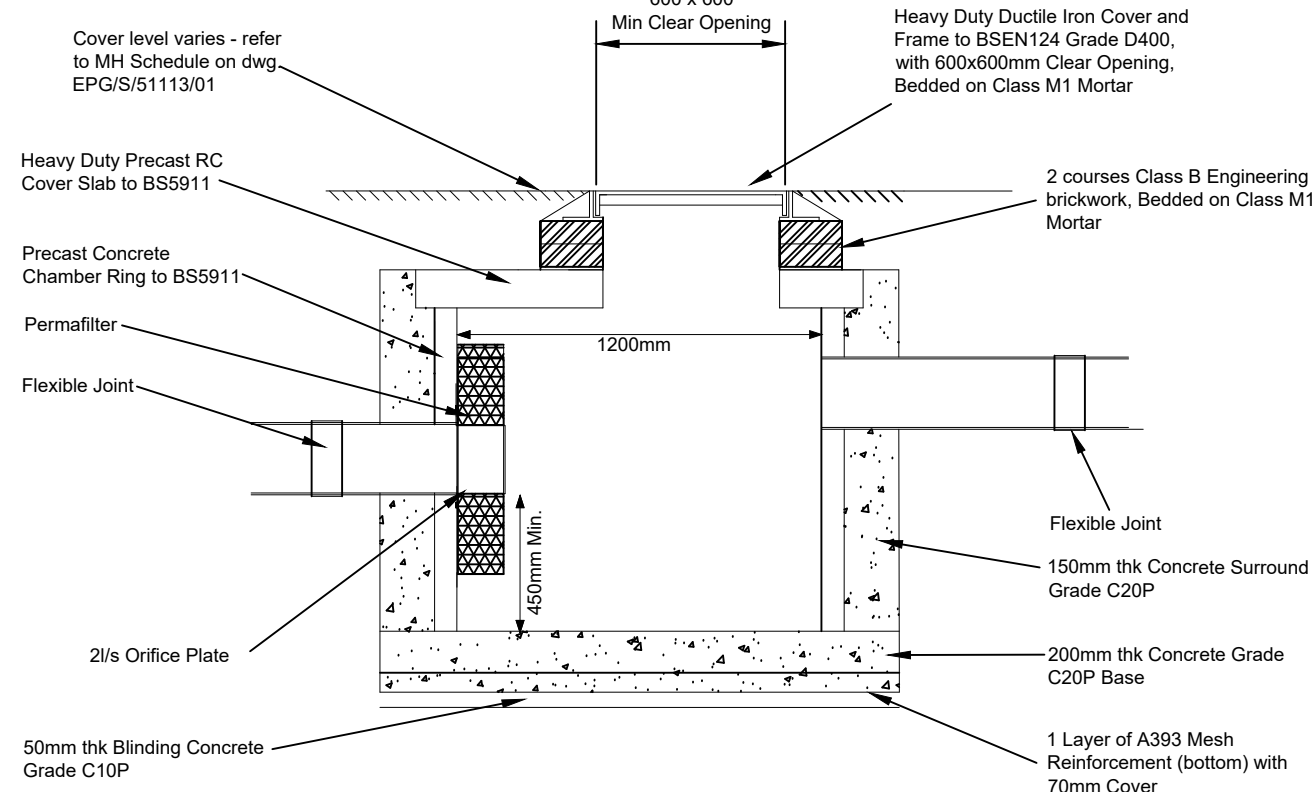
Surface Water Drainage  
Client undertook percolation tests during September 2026. Clay subsoil's encountered with extremely low permeability. Existing dwelling discharged both SW and FW drainage to combined 150mm diameter pipe/manhole which is 0.72m deep. Discharge rate of 2l/s adopted as practical minimum due to orifice diameter. Drainage solution modeled using Causeway Flow software for 100yr+CC40%, 30yr+CC35%, 5yr and 1yr return periods for a variety of durations.  
CV of 1 applied  
10% urban creep applied

Foul Water Drainage  
All FW drainage to existing combined sewer.

Foundation Design  
Where Foundations are adjacent to permeable paving areas they are to be extended at least 150mm below the depth of the paving sub base system.



### TYPICAL 1200mm FLOW CONTROL CATCHPIT MANHOLE



### TYPICAL 1200mm FLOW CONTROL CATCHPIT MANHOLE (SW7) SECTION A - A SCALE 1:25

| REV | DESCRIPTION  | DATE     |
|-----|--------------|----------|
| 0   | For Approval | 15/09/26 |

EWE Associates Limited  
7 Waveney Close  
Burton upon Stather  
Scunthorpe  
DN15 9TG  
Tel: 07875 972270  
Email : lea.favill@eweassociates.com

PROJECT  
Proposed Residential Dwelling  
Oak Tree Cottage Billingley

CLIENT  
Mr M Soar

DRAWING TITLE  
Drainage Strategy

|                           |                  |                  |  |
|---------------------------|------------------|------------------|--|
| SCALE<br>1:100            |                  | DATE<br>15/09/26 |  |
| DRAWN BY<br>LJF           | CHECKED BY<br>JF | REVISION<br>0    |  |
| DRAWING No<br>EWE/3509/01 |                  |                  |  |