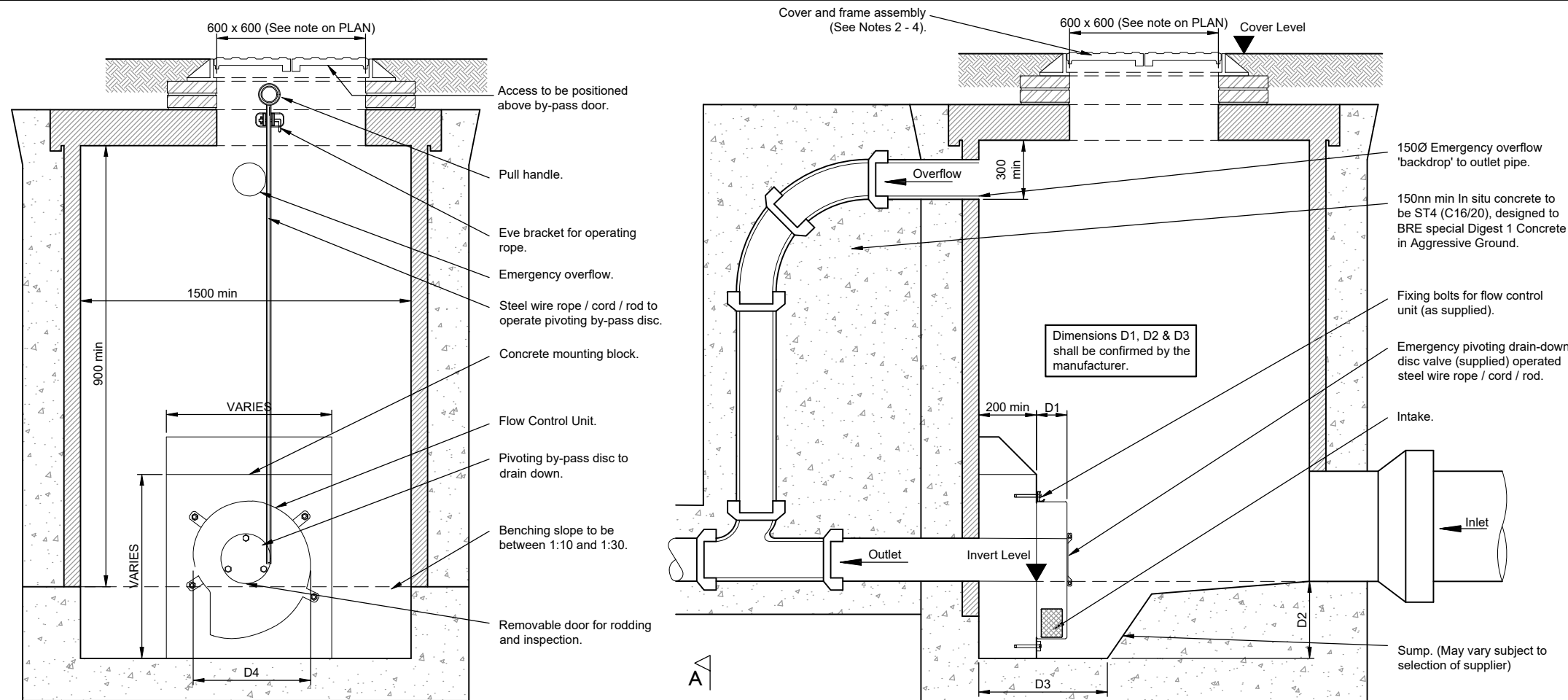




- NOTES
1. Do not scale from this drawing.
 2. Cover Grade shall be minimum D400 unless otherwise agreed with the Highway Inspector. 600mm x 600mm clear opening (See note on PLAN).
 3. Manhole cover and frames shall comply with the relevant provisions of BS EN 124, BS 7903 and Highway Agency Guidance Document HA 104/02. They shall be of a non-rocking design which does not rely on the use of cushion inserts. All manhole covers shall be the non-ventilating type and shall have closed keyways. All covers formed of double triangular units shall be loosely bolted together.
 4. Frames shall be bedded on a gauged Class 1 (3:1) sand/cement mortar to CI.2402 of SHW Mortar Designation (i), and between 2 and 4 courses of Engineering Brickwork Class 'B' to BS EN 771-1:2011.
 5. Precast concrete manhole pattern step irons at 300mm centres vertically and staggered 300mm horizontally between centres.
 6. On manholes less than 1.5mØ reducing slab not to be used and PC rings to continue up to cover slab.
 7. Pre-cast concrete products shall comply with the relevant provisions of BS 5911: Part 2, 200 & 230.
 8. The flow control quotation and specification, and chamber details shall be supplied to WSCC in order that the 'commuted sum' can be calculated.
 9. The chamber shall be of suitable size, type and construction relative to the flow control unit dimensions. The chamber must be installed in strict accordance with the supplier recommendations. Any variations shall be reported to WSCC.

- CONDITIONS OF USE:
- The applicant must obtain an approval in principle with WSCC for use of such flow control. The design 'performance' shall be agreed with WSCC (head/flow). Drainage strategy and flood risk reports shall be provided. In the absence of this information evidence shall be provided to demonstrate historic and/or Greenfield flows.
 - All flow control manholes shall include an emergency overflow located just under the biscuit. This shall be a minimum 150Ø. The overflow is only permitted to operate during exceedance events in excess of 1:30yr+30% climate change.
 - Flow control to have a minimum of 75mm solid handling.
 - Opening size minimum shall be 600mm x 600mm. Size must be designed to suit the selected flow control apparatus and future maintenance requirements for removal/replacement.

C	General update	MJA	MJA	15.03.19
B	Notes amended	MJA	MJA	07.11.17
A	Notes amended	DLS	MJA	28.02.13
Rev	Revision details	Chkd	Appd	Date
Drawn:	MJA		For comment	
Chkd:			For tender	
Appd:			For construction	
Date:			As constructed	
File ref:				
IWP Ref:				

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Project Name
Section 278/38 Highway Agreement
Standard Details

Drawing Title
Vortex Flow Control
Type B Manhole



Original Drawing Size :		A3	
Scale :		As Shown	Dimensions :
Drawing No.			Rev
S278/38/14			C