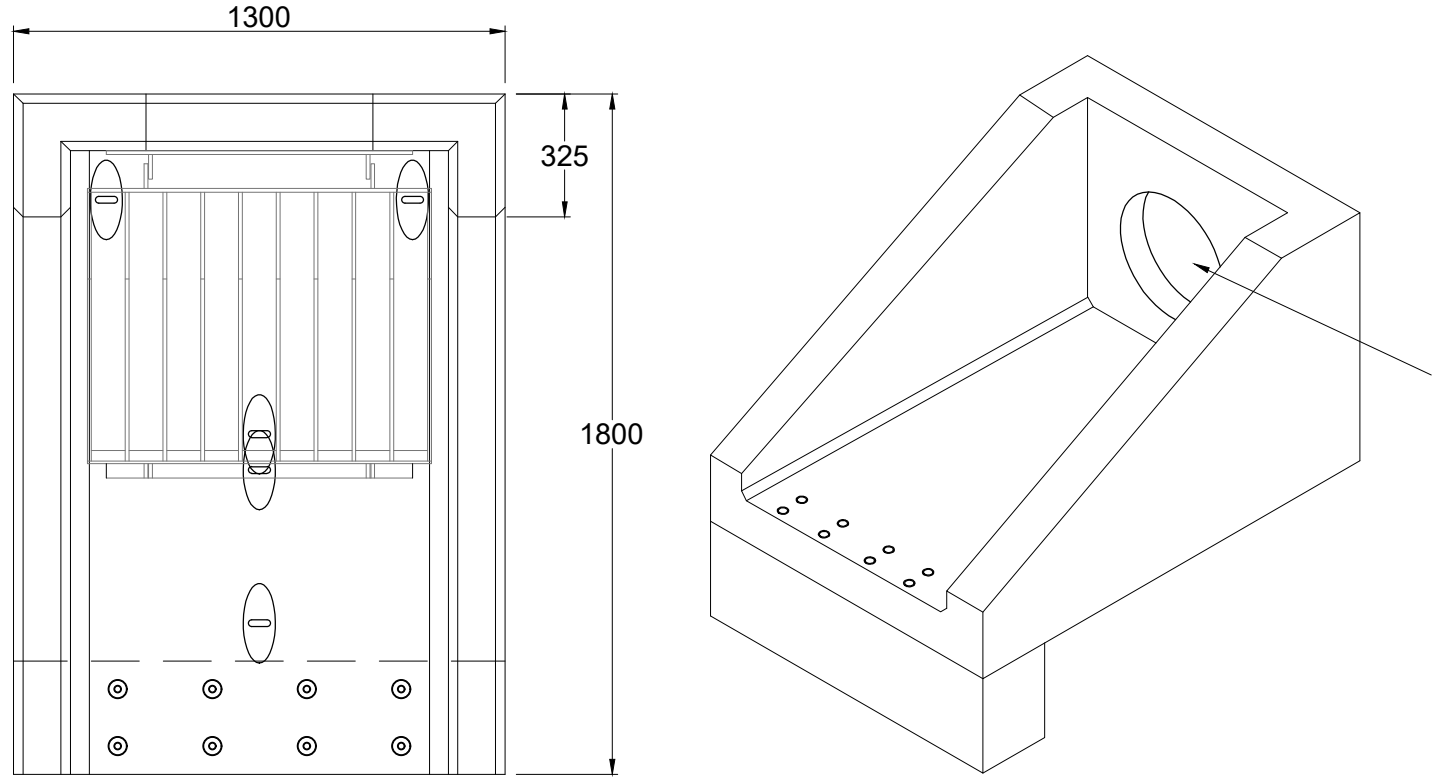
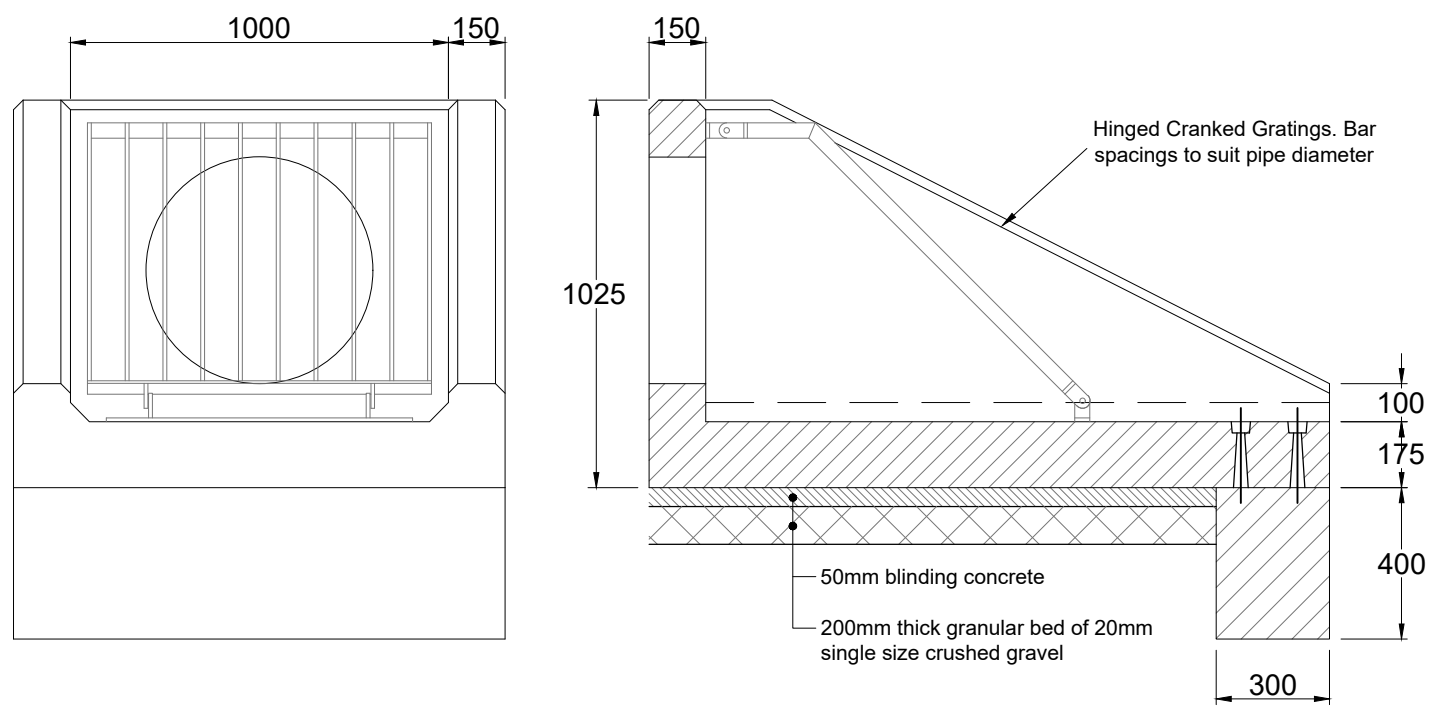




ALTHON HEADWALL R10CA
(Scale 1:20)

NOTES:

R10CA Specification Information

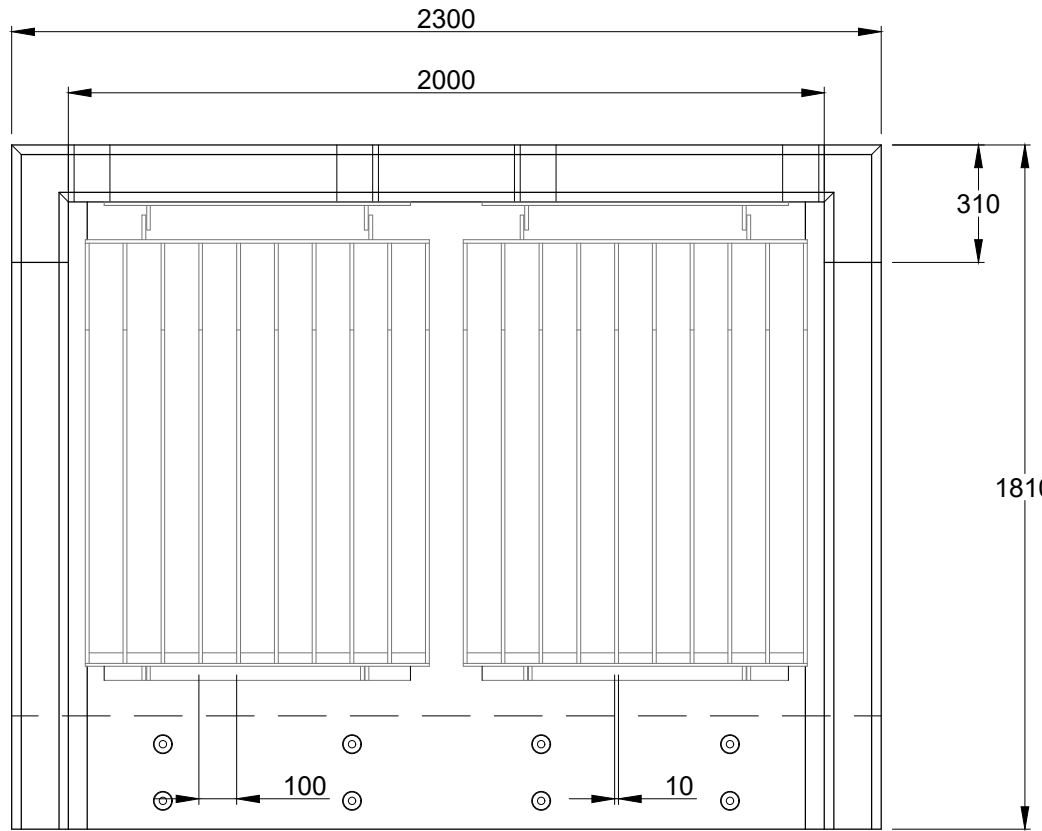
- Opening in back wall cast to suit outside diameter of the pipework
- R10CA suitable for pipework up to 600mm ID Twinwall or Clay and 525mm ID Concrete

Althon R10CA Headwall Installation

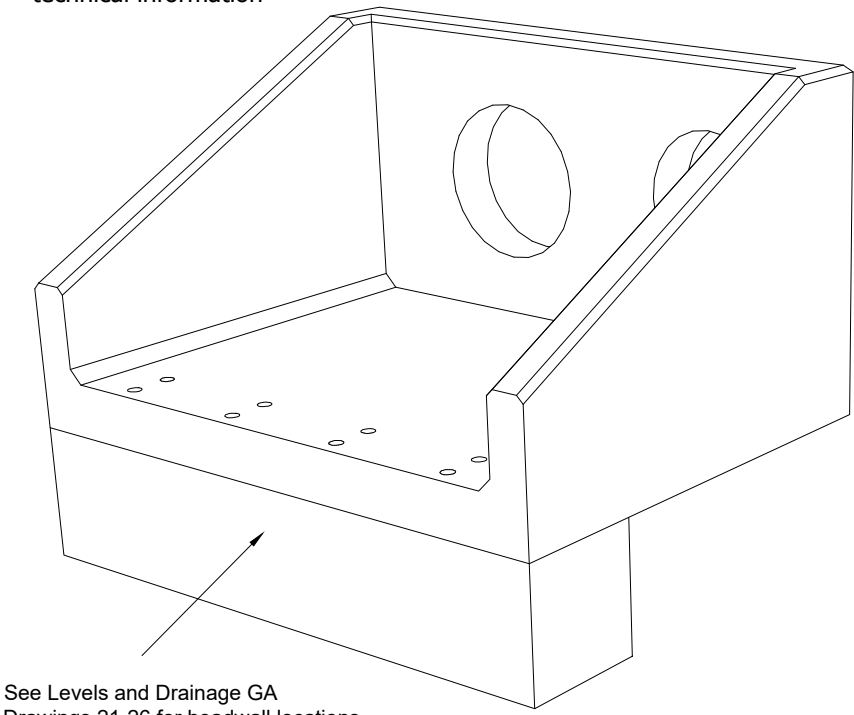
Units should be bedded on a minimum 200mm thick well compacted Class 6A* selected well graded granular material, *Manual of contract documents for Highway Works: Volume 1 (MCHW1)specification for Highway Works, Series 600 (Nov.09)
Material: Reinforced concrete
Weight approximately 2375kg
All dimensions in mm

Grating Specification Information

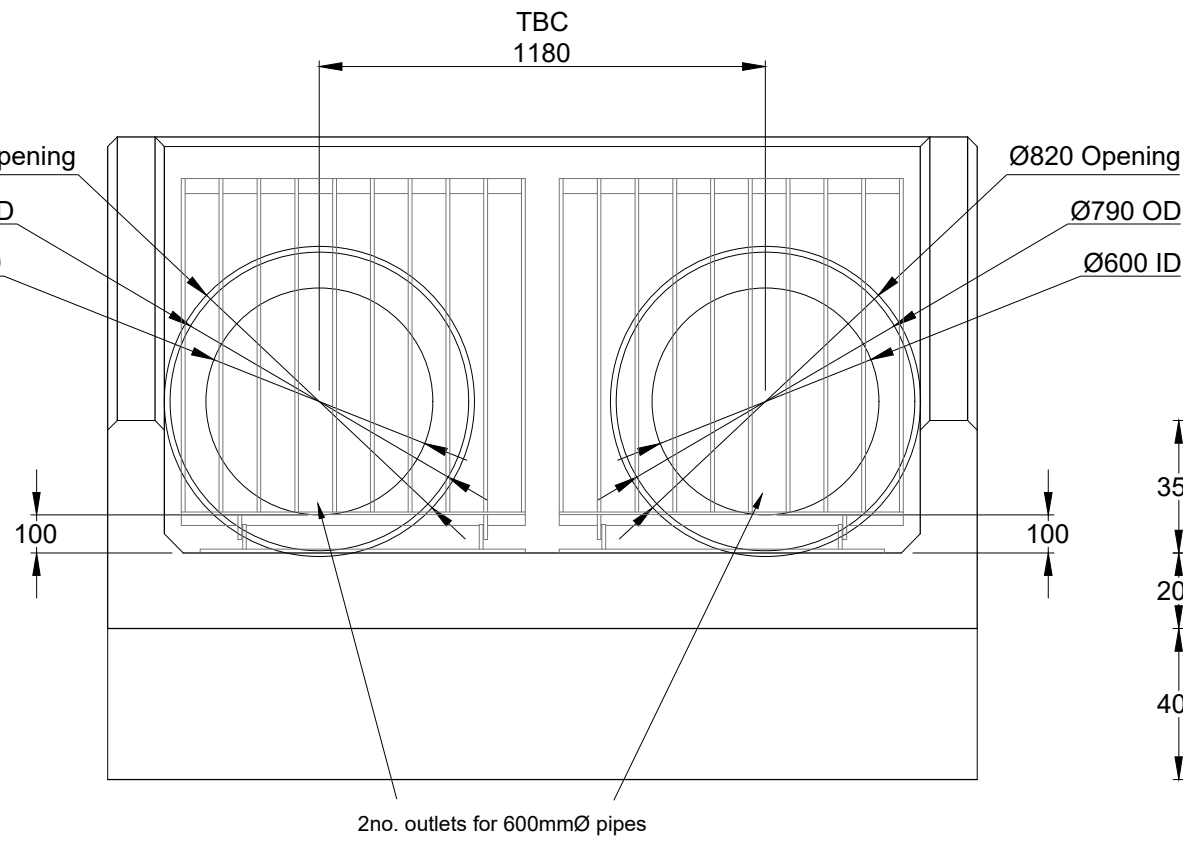
- Manufactured from 40 x 10 flat at 100mm centres
- Fully Welded and hot dip galvanised



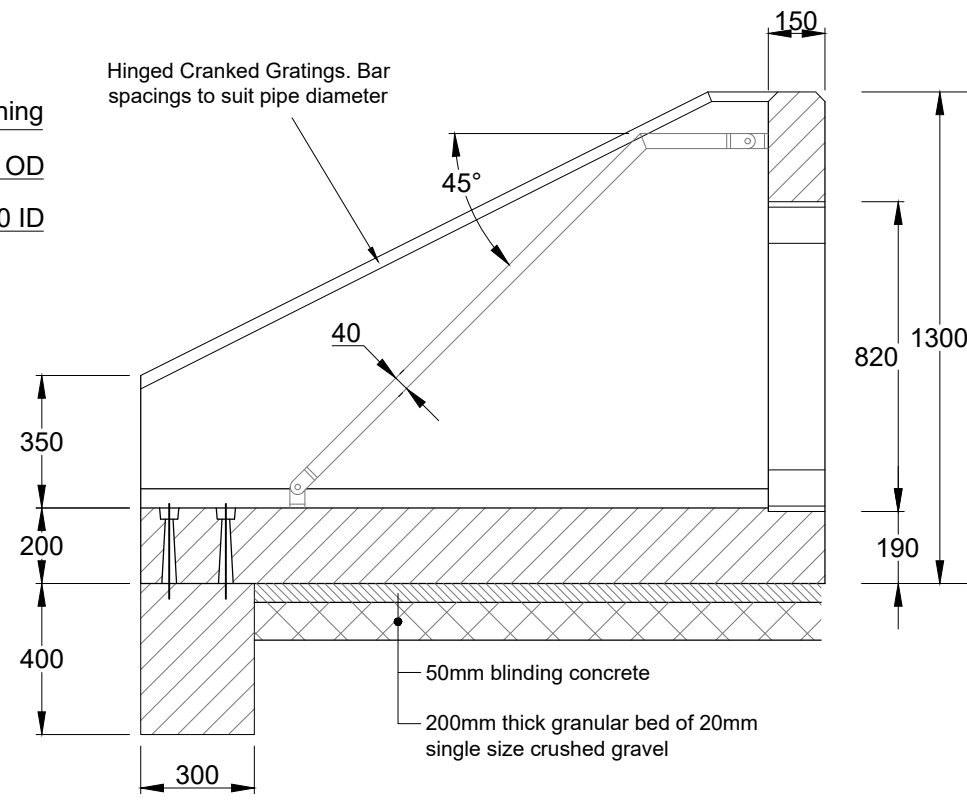
Note: Isometric drawing is for reference only, details may not accurately represent actual design - please see detailed views for technical information



See Levels and Drainage GA Drawings 21-26 for headwall locations



ALTHON HEADWALL R20B
WITH 2 X 600Ø PIPES
(Scale 1:20)



All dimensions in mm
Measurements $\pm$ 1mm

Specification Information

- Opening in back wall cast to suit outside diameter of the pipework
- Invert level of pipe can be set to your specification

Headwall Installation

Units should be bedded on minimum 150mm thick well compacted Class 6A or 6A* well graded granular material with a 50mm topping of fine material (Class 6L*) to ensure units are level and stable.
*Manual of contract documents for Highway Works: Volume (MCHW1) specification for Highway Works, Series 600 (Nov 09).

Handling

- Weight of concrete is based on 2.4 tonne/m³+5% is recommended for sizing lifting equipment.
- All lifting points shall be used as specified below
- Unit to be lifted as per lifting diagram

Concrete

- Mix ref: Self-compacting DC4/DS4 Mix
- Lifting strength based on 2 cubes = 20N/mm²
- Characteristic 28 day cube strength = 50N/mm²
- Concrete provides Design Chemical Class 4 (DC4) to special Digest 1, Table F2.

Reinforcement

- Reinforcement to BS EN 13369
- Scheduling, dimensioning, bending & cutting to BS8666
- Cage to be machine tied with steel wire

Manufacture

- Manufacture to BS EN 15258:2008 precast concrete products – Retaining wall elements, Factory Production Control certificate number: 0086-CPR-650448 & BS EN 13369
- Tolerances to BS EN 13369 clause 4.3.1.1
- Finishings:

- Marking: Units shall be indelibly marked to show:
 - Mould reference code
 - De-mould date
 - Job reference number & unique product number
 - Unit weight (kg)

Design

- Concrete design to EC2
- Althon have designed the concrete units only, the site conditions should be assessed for suitability by the scheme designer
- Units are designed to withstand a vertical live load surcharge of 10kN/M²
- Weight of soil = 18kN/M²
- Angle of internal friction = 30 Deg.
- Design Life: >120 years

Min Cover	Cover Back Size (mm)	Min Cover Size (mm)	Max Cover Size (mm)
All Faces	55	50	60

Exposure Classification	Exposure induced by Carbonation	Corrosion induced by Chloride	Freeze/thaw attack	Chemical attack
All Faces	XC3/4	XD3	XF4	XA3

Fabrication Specification

- Manufacture IAW EN 1090-2 EXC CLASS 1
- Material grade is to be: BS EN 10025 S275
- Welding carried out IAW EN 1090-2 PARA 7.5.4 – 7.5.18
- All fillet and butt welds to have a minimum throat thickness of 6mm & joints to be fully welded where possible.
- Ensure vertical flats are fully welded both sides where possible.
- All sharp edges and burrs are to be removed.
- Remove all weld splatter.
- Holes by punching are permitted with reaming.
- Galvanising is carried out after fabrication to BS EN ISO 1461

GENERAL NOTES:

- All dimensions to be checked on site. All details and dimensions relating to sub-Contractors work must be checked and agreed between the sub-Contractor or supplier and the general Contractor.
- This drawing is to be read in conjunction with all relevant Architect's and Engineer's drawings and specification.
- The main Contractor is responsible for ensuring the stability of the structure whilst the works are in progress.
- Any information given regarding existing underground services is given in good faith after consultation with the relevant authority. No liability is accepted by the Consultant and the main Contractor is responsible for obtaining and checking all information and taking due care and attention whilst undertaking the works.

REV	DATE	INT	DESCRIPTION	CHK
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Issue Status PRELIMINARY



The Civil Engineering Practice
11 Tungsten Building
George Street
Fishersgate
Sussex
BN41 1RA
01273 424424
reception@civil.co.uk
www.civil.co.uk

CLIENT	DPS Limited
PROJECT	Wicks Farm Polytunnel Ford
TITLE	Construction Details Sheet 3 of 3
DRAWN	P Reynolds
DATE	Aug 2020
PROJECT NO.	23210
ENGINEER	S Burgess
CHECKED	SB
DWG. NO.	53
REV.	
SCALE	As shown @ A1