

DO NOT SCALE DRAWING

	NOTES:
	All dimensions in mm
	All measurements ± 1mm
	Specification Information Opening in back wall cast to suit outside diameter of the pipework
	<ul> <li>Opening in back wall cast to suit outside diameter of the pipework</li> <li>Invert level of pipe can be set to your specification</li> </ul>
	Headwall Installation
	Units should be bedded on minimum 200mm thick well compacted Class 6A* selected well graded granular material.
	"Manual of contract documents for Highway Works: Volume (MCHW1) specification for Highway Works, Series 600 (Nov.09).
	Sit the headwall level or with a slight fall 1:50 from pipe to spill mouth.
	Handling
	A. Weight of concrete is based on 2.4 tonne/m <sup>3</sup> +5% is recommended for sizing lifting equipment.
	<ul> <li>All lifting points shall be used as specified below</li> <li>Unit to be lifted as per lifting diagram</li> </ul>
	Concrete
	A. Mix ref: Self-compacting DC4/DS4 Mix
	<ul> <li>B. Lifting strength based on 2 cubes = 20N/mm<sup>2</sup></li> <li>C. Characteristic 28 day cube strength = 50N/mm<sup>2</sup></li> </ul>
	D. Concrete provides Design Chemical Class 4 (DC4) to special Digest 1, Table F2.
	Reinforcement A. Reinforcement to BS EN 13369
	B. Scheduling, dimensioning, bending & cutting to BS8666
	C. Cage to be machine tied with steel wire
	Manufacture A. Manufacture to BS EN 15258:2008 precast concrete products - Retaining wall
	elements, Factory Production Control certificate number: 0086-CPR-650448 & BS EN 13369
	B. Tolerances to BS EN 13369 clause 4.3.1.1 C. Finishing:
	Top Sides Base Rear of back wall
	D. Marking: Units shall be indelibly marked to show:
	Mould reference code     De-mould date
	<ul> <li>Job reference number &amp; unique product number</li> <li>Unit weight (kg)</li> </ul>
	Design A. Concrete design to EC2
	B. Althon have designed the concrete units only, the site conditions should be assessed for suitability by the scheme designer
	C. Units are designed to withstand a vertical live load surcharge of 10kN/M <sup>2</sup> D. Weight of soil = 18kN/M <sup>2</sup>
	E. Angle of internal friction = 30 Deg.
	F. Design Life: >100 years Min Cover   Cover Block   Min Cover   Max Cover
	All Faces 55 50 60
	Exposure induced Corrosion induced Freeze/thaw Chemical Classification by Carbonation by Chioride attack attack
	Classification         by Carbonation         by Chloride         attack         attack           All Faces         XC3/4         XD3         XF4         XA3
	Fabrication Specification A. Manufacture IAW EN 1090-2 EXC CLASS 1
	B. Material grade is to be: BS EN 10025 S275
	<ul> <li>Welding carried out IAW EN 1090-2 PARA 7.5.4 - 7.5.18</li> <li>All fillet and butt welds to have a minimum throat thickness of 6mm &amp; joints to be</li> </ul>
	fully welded where possible. E. Ensure vertical flats are fully welded both sides where possible.
	F. All sharp edges and burrs are to be removed.     G. Remove all weld splatter.
	H. Holes by punching are permitted with reaming.
	I. Galvanising is carried out after fabrication to BS EN:ISO 1461
Г	Handrail Specification A. Kee Klamp®_Galvanised Size 8 Fittings
	B. Size 8 48.3mm OD 3.2mm Wall Thickness Galvanised Medium Duty Tube to BS EN 10255
	C. 360N/m Design Load at stated in BS 8118, BS 6180, BS 6399 & BS 7818, Civil
	Engineering Specification for the Water Industry (CESWI) 7th Edition Clause 2.60 Handrails & Balusters & The Engineering Equipment and Materials Users'
	Association (EEMUA) Publication 105 7th Edition Factory Stairways, Ladders and Handrails
	D. Other design loads available on request E. GRP/FRP Handrails also available
40	REV NO DATE DESCRIPTION
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	Althon
	ADDRESS: ALTHON LIMITED TEL: 01603 488700 VULCAN ROAD SOUTH FAX: 01603 488598
	VULCAN ROAD SOUTH FAX: 01603 488598 NORWICH EMAIL: sales@althon.co.uk NR6 6AF WEBSITE: www.althon.co.uk
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<u>-</u>	DRAWING TITLE / PROJECT:
	SFA10B Headwall
	SFA1 450 Outfall Safety Grille
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	CLIENT:
	SCALE:         PAPER:         SHEET NO:         DATE:           NTS         A3         01 OF 01         09 - 11 - 18
	HEADWALL WEIGHT: TOE WEIGHT:
	2140kg N/A
CE	PRODUCT NAME: SFA10B
レビー	DRAWING No: