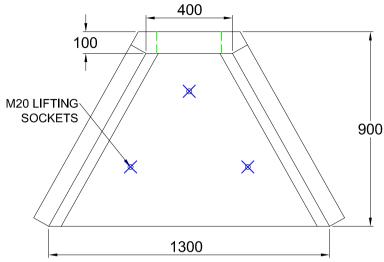
Opening in back wall cast to suit the outside diameter of the pipe at invert height required.

M12 FIXING

SOCKETS







M20 LIFTING

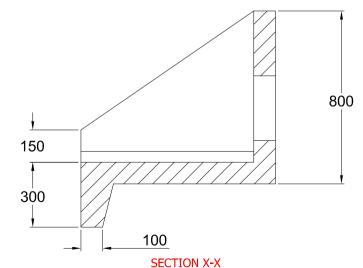
M20 CAST-IN LIFTING SOCKET

MIN. CHAIN LENGTH

DETAIL D1



Grating manufactured from 40 x 10 flat at 75mm centres. Fully welded and hot dip galvanised.



DO NOT SCALE DRAWING

NOTES:

All dimensions in mm U.O.S

All measurements + 1mm

Opening in back wall cast to sult outside diameter of the Invert level of pipe can be set to your specification.

Headwall Installation
Units should be bedded on minimum 100mm thick well compacted Class
6/A 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.

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.

special Digest 1, Table F2.

Mlx ref: Self-Compacting DC4/DS4 Mlx Lifting strength based on 2 cubes = 20N/mm2 Characteristic 28 day cube strength = 50N/mm2 Concrete provides Design Chemical Class 4 (DC4) to

ReInforcement to BS EN 13369.
Scheduling, dimensioning, bending & cutting to BS8666.
Cage to be machine tled with steel wire.

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 FN 13369 clause 4 3 1 1

De-mould date Job reference number & unique product number

Unit weight (kg)

Concrete design to EC2.

JKH have designed the concrete units only, the site conditions should be assessed for sultability by the scheme conditions should be assessed for suitability by the designer.
Units are designed to withstand a vertical live load surcharge of 10kn/M2.
Weight of soil = 18kn/M2.
Angle of Internal fiction = 30°.
Design Life: >50 years

Fabrication Specification
A. Manufacture IAW E N 1090-2 EXC CLASS 1
B. Material grade is to be: BS EN 10025 S275
C. Welding carried out IAW EN 1090-2 PARA 7.5.4-7.5.16
D. All fillet and butt welds to have a minimum throat fibikiness of 6mm & joints to be fully welded where possible.
E. Ensure vertical filats are fully welded but sides where

Ensure vertical trats are truly webcat both spes where possible.

All sharp edges and burrs are to be removed.

Remove all weld splatter.

Holes by punching are permitted without reaming.

Galvanising is carried out after fabrication to BS EN: ISO 1461.

Handrall Specification
A. Kee Klamp Galvanised Stze 8 Fittings.
Stze 8 48.3mm OD 3.2mm Wal Thickness Galvanised
Medium Duly Tube to BS EN 10255.
C. 360/m Design Load as stated in BS 6118, BS 6180, BS
6399 & BS 7818, Cly

Water Industry (CESWI).
Other design loads available on request
GRP/FRP Handralls also available.



TEL: 01638 713795 FAX: 01638 582507 EMAIL: Info@jkhlid.co.uk WEBSITE: www.jkhlid.co.uk

IP28 7AS WEBSTE: www.juhibi.co.u
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300 Series Headwall

CLIENT:		Client	
SCALE:	NTS	DRAWING DATE:	30/05/2019
HEADWALL WEIGHT:		GRATING WEIGHT:	
	540kg		17kg
TOTAL WEIGHT:		557kg	
DRAWN BY:	DH	CHECKED BY:	JP
DRAWING No:			

300 Series + CC grating

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