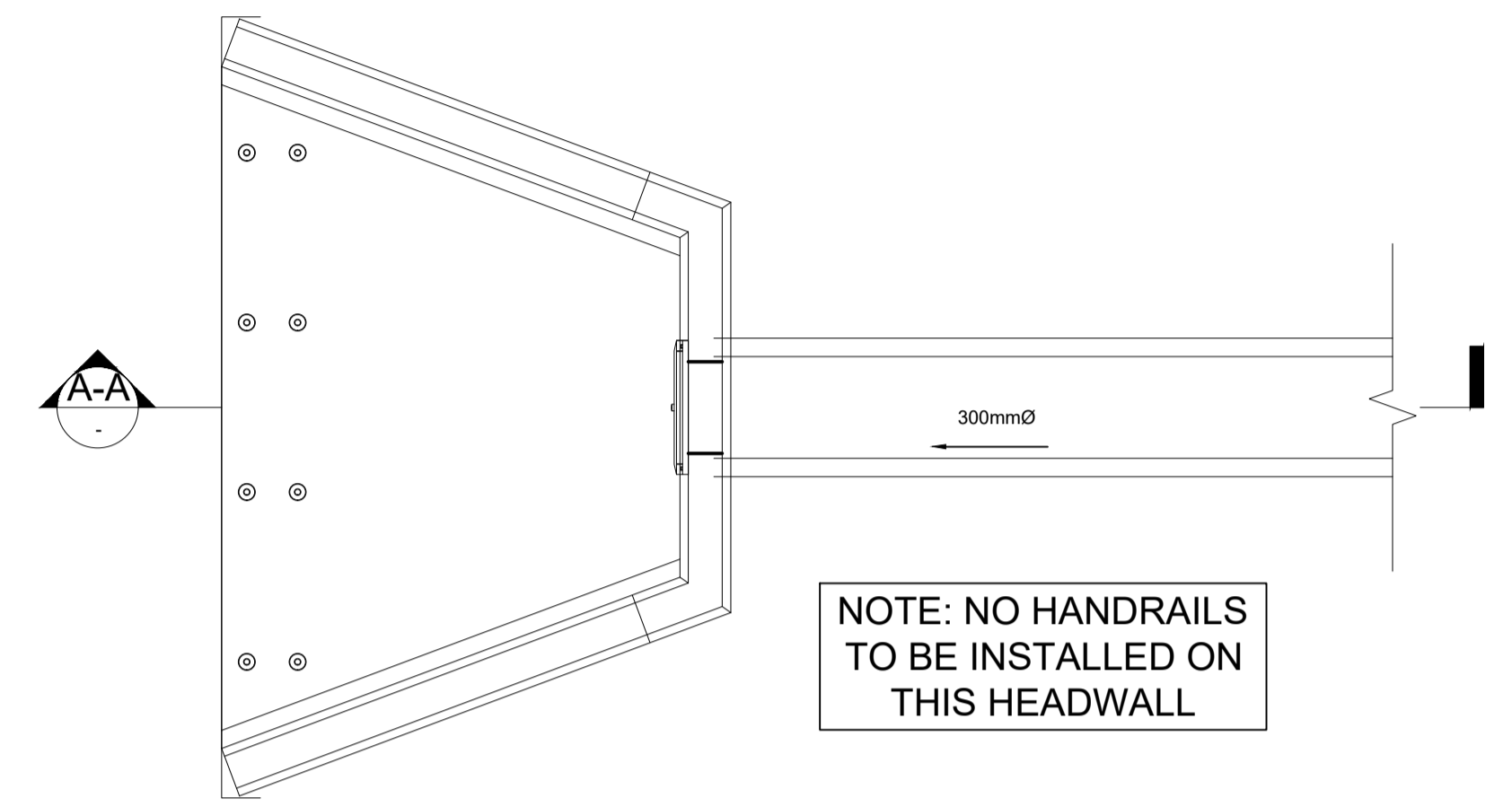
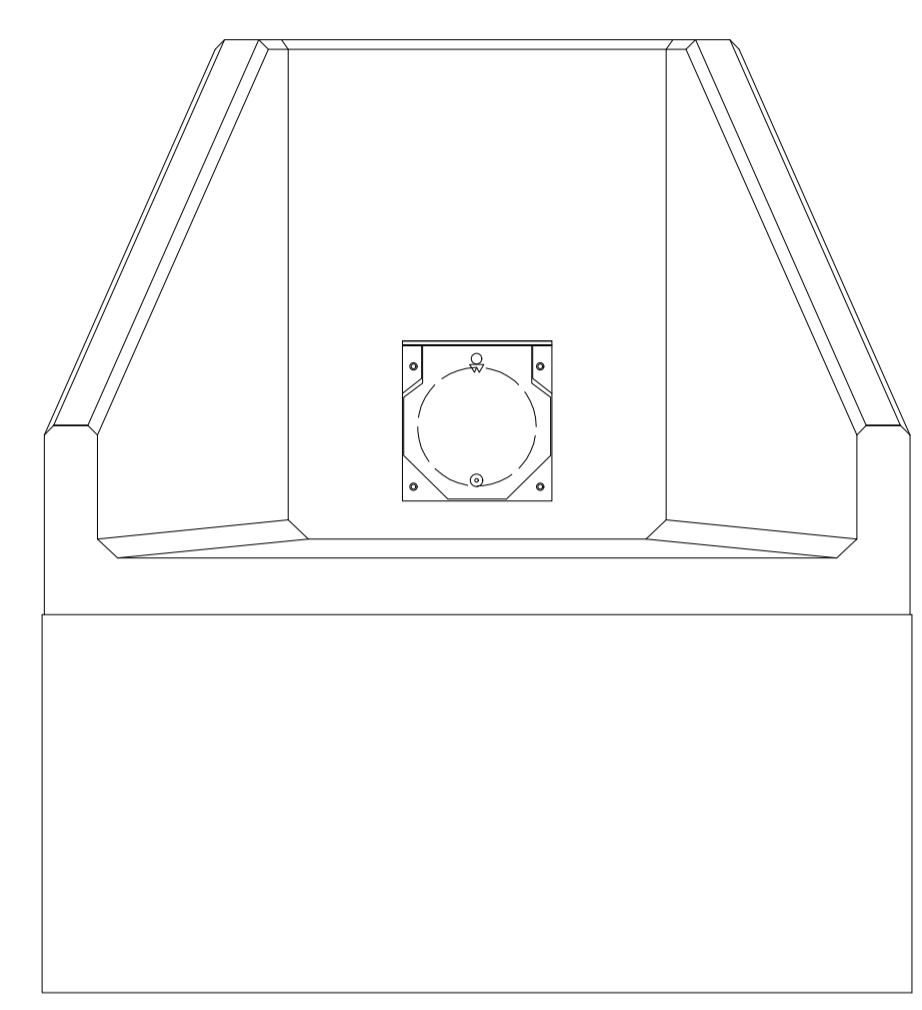


- NOTES:**
1. THESE NOTES ARE INTENDED TO AUGMENT DRAWINGS AND SPECIFICATIONS. WHERE CONFLICT OF REQUIREMENTS EXIST THE ORDER OF PRECEDENCE SHALL BE AS SHOWN IN THE SPECIFICATION, OTHERWISE THE STRICTEST PROVISION SHALL GOVERN.
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS AND ARCHITECTS DRAWINGS.
 3. DRAWINGS NOT TO BE SCALED. ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR. ANY DISCREPANCIES TO BE NOTIFIED TO THE ENGINEER AND FURTHER INSTRUCTIONS OBTAINED BEFORE WORK IS COMMENCED.
 4. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY DEPLETED. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURE AND SEQUENCE AND ENSURE THAT THE BUILDING AND ITS COMPONENTS ARE SAFE DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS WHICH MAY BE NECESSARY. SUCH MATERIAL REMAINING THE PROPERTY OF THE CONTRACTOR ON COMPLETION AND FOR ENSURING THAT THE WORKS AND ANY ADJACENT PROPERTIES ARE SAFE IN THE TEMPORARY CONDITION.



SHW06 ALTHON SFA10 D WITH 300mmØ FLAP VALVE
PLAN VIEW
 SCALE 1:20

NOTES:

- All dimensions in mm
- All measurements ± 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:

A. Units should be bedded on minimum 150mm thick well compacted Class 6N or 6K 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:

A. Weight of concrete is based on 2.4 tonne/m³+5% is recommended for sizing lifting equipment.

B. All lifting points shall be used as specified below

C. Unit to be lifted as per lifting diagram

CONCRETE:

A. Mix ref: Self-compacting DC4/DS4 Mix

B. Lifting strength based on 2 cubes = 20N/mm²

C. Characteristic 28 day cube strength = 50N/mm²

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:

Class	Top	Bottom	Side	Face of back wall
1	±10	±10	±10	±10

D. Marking: Units shall be indelibly marked to show:

- Mould reference code
- De-mould date
- Job reference number & unique product number
- Unit weight (kg)

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/m²

D. Weight of soil = 18kN/m³

E. Angle of internal friction = 30 Deg.

F. Design Life: >120 years

Min. Cover	Core Cover	Max. Cover	Min. Cover	Max. Cover
20	20	20	20	20

Exposure	Exposure Category	Concrete class	Minimum cover	Maximum cover
2	XC1	C25	20	30

FABRICATION SPECIFICATION:

A. Manufacture IAW EN 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 - 7.5.18

D. All fillet and butt welds to have a minimum throat thickness of 6mm & joints to be 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

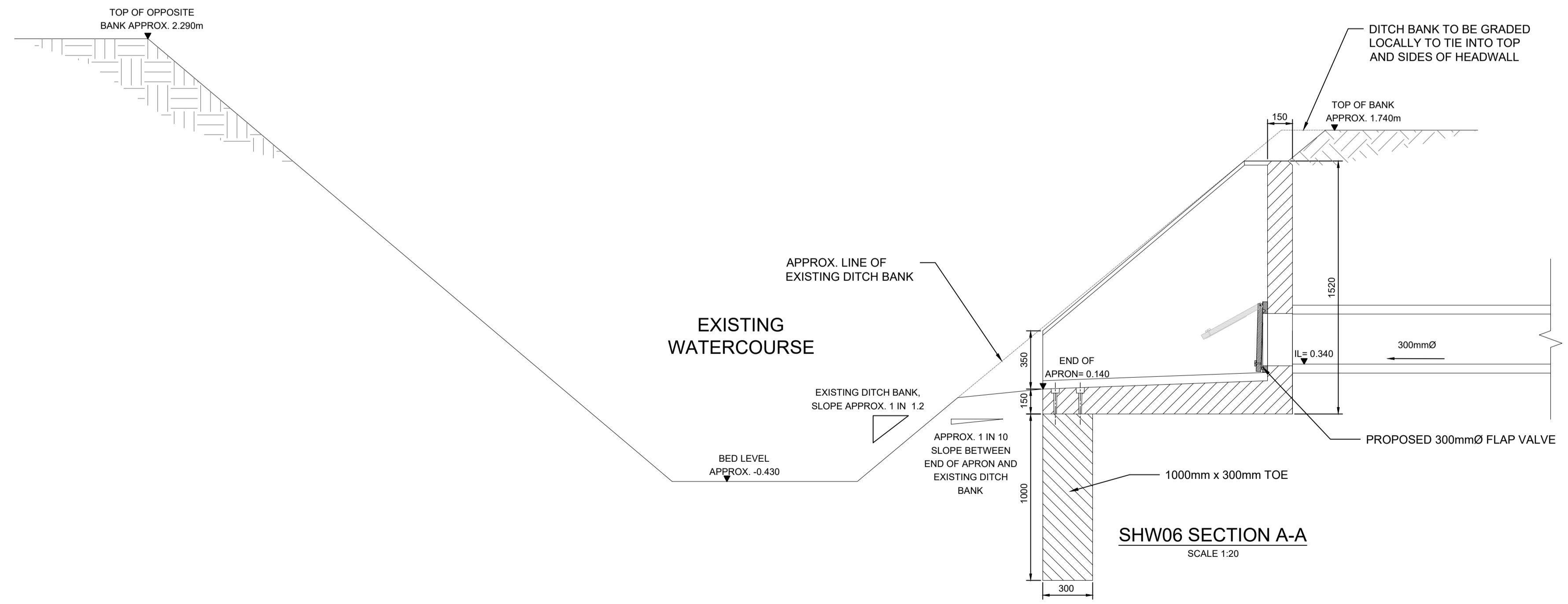
ALTHON 300 HDPE/SS FLAP VALVE SPECIFICATION INFORMATION

- THE VALVE PLATE AND THE BACK PLATE ARE PRODUCED USING HDPE/SS
- THE HINGE PIN AND BALLAST WEIGHT ARE PRODUCED IN SS16 AS STANDARD
- THE BALLAST WEIGHT CAN BE EASILY ADJUSTED IF REQUIRED
- THE SEALING ARRANGEMENT CONSISTS OF AN EPDM LIPS SEAL IN THE BACK PLATE
- THE VALVE PLATE IS ALSO INSTALLED ON AN ANGLE IN RELATION TO THE BACK PLATE TO ENSURE A GOOD SEAL

MATERIAL: HDPE, SS316, EPDM

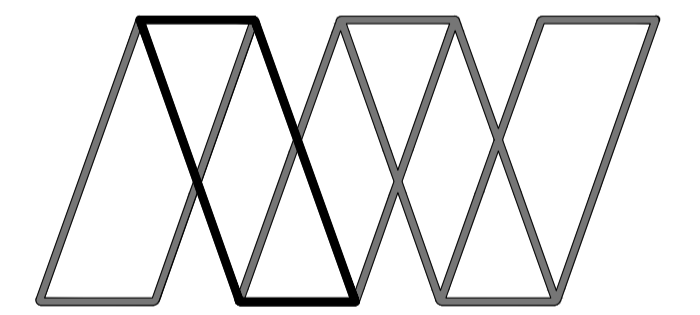
OPENING: Ø315mm

WORKING PRESSURE: MAXIMUM 5 MWC



SHW06 SECTION A-A
 SCALE 1:20

Rev	Description	Date	By	Chk	App
P3	AMENDED TO NEW S104 DESIGN, SHOWING SHW03 AND SHW04	13.08.25	JP	SPG	SPG
P2	HEADWALL SPECIFICATION NOTES ADDED	25.07.24	ERD	JP	JAG
P1	FIRST ISSUE	09.02.24	ERD	JP	JAG



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Project:	Proposed Residential Development at Lincolnshire Lakes, Burringham Road		
Client:	Keepmoat Homes		
Drawing:	Section 104 - Surface Water Headwall Details Sheet 4		
Role:	CIVIL ENGINEER		
Drawing Status:	FOR APPROVAL	Suitability Code:	S4
Job. no.	45822	Scale@ A1:	As Noted
Project	Originator	Volume	Level
KPLL - AWP - ZZ - XX - DR - C - 3044			
Rev.	P3	Role	Number

