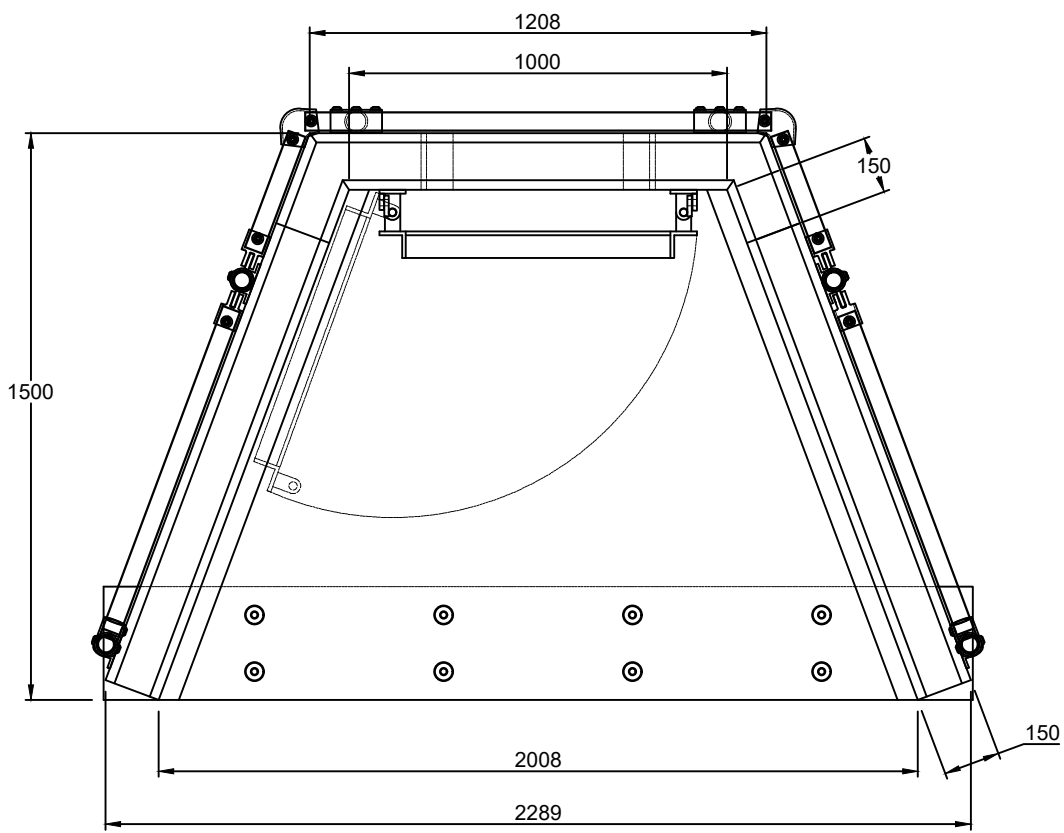
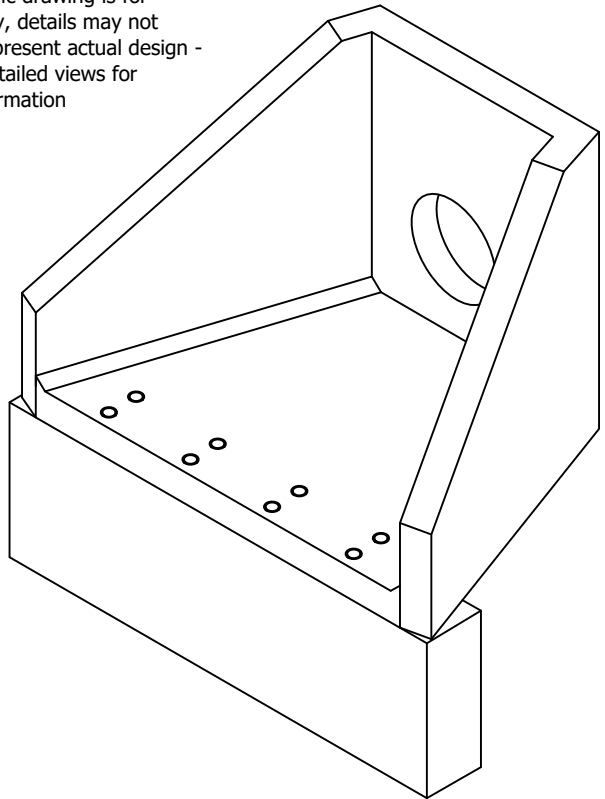


GENERAL NOTES:  
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN



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



HEADWALL NOTES:

SPECIFICATION INFORMATION:

- OPENING IN BACK WALL CAST TO SUIT OUTSIDE DIAMETER OF THE PIPEWORK
- INVERT LEVEL OF PIPE CAN BE SET TO DWG C-1001

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>2</sup> 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 C40/D54 MIX
- B. LIFTING STRENGTH BASED ON 2 CUBES = 20NMM<sup>2</sup>
- C. CHARACTERISTIC 28 DAY CUBE STRENGTH = 50NMM<sup>2</sup>
- D. CONCRETE PROVIDES DESIGN CHEMICAL CLASS 4 (DCA) 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:
- 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/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

FABRICATION SPECIFICATION:

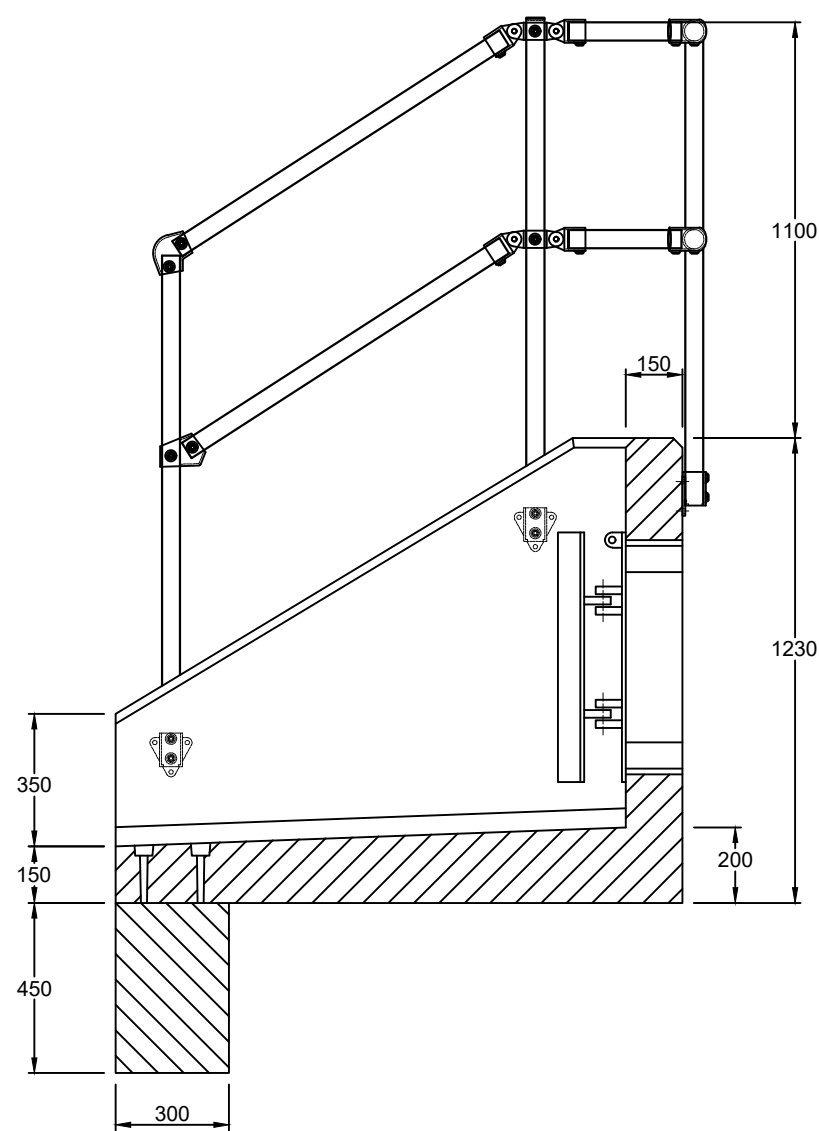
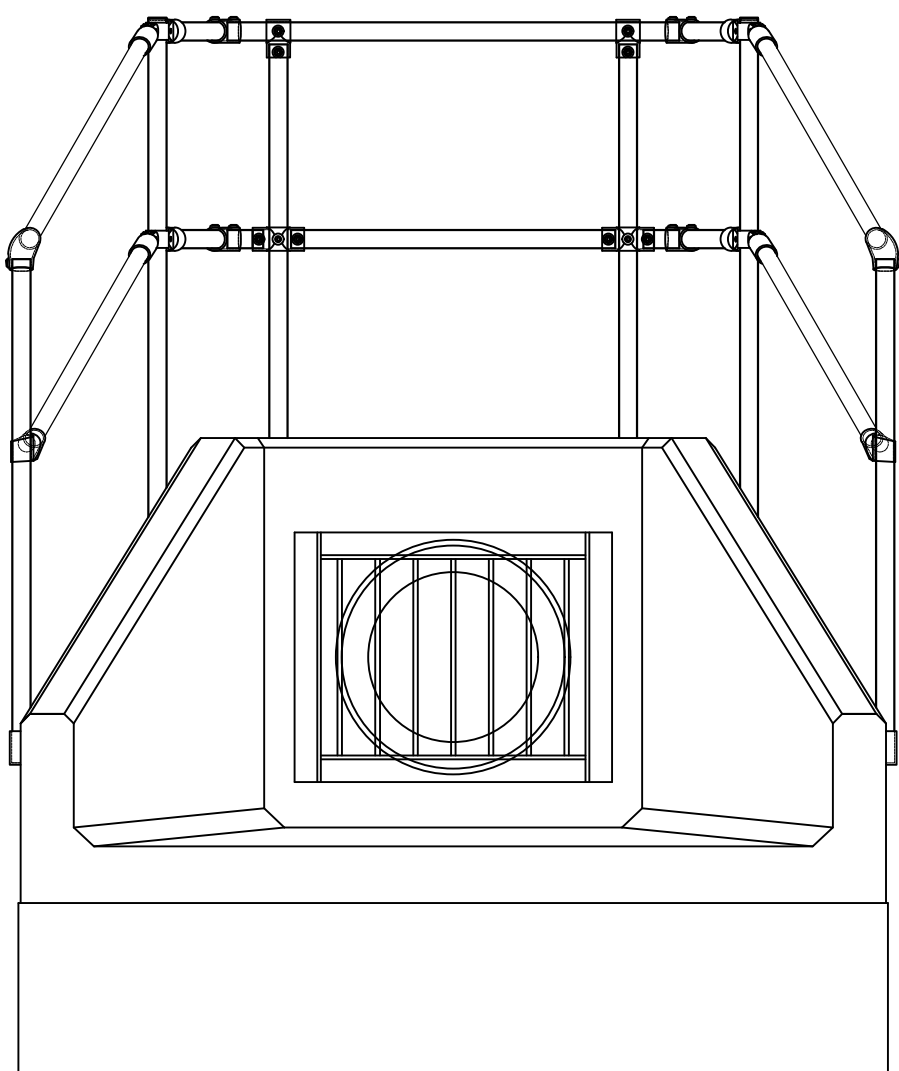
- A. MANUFACTURE IAW EN 1090-2 EXC CLASS 1
- B. MATERIAL GRADE IS TO BE: BS EN 10025 S275
- C. WELDING CARRIED OUT IAW EN 1090-2 PARA 7.5.4 - 7.5.18
- D. ALL FILLET AND BUTT WELDS TO HAVE A MINIMUM THROAT THICKNESS OF 6MM & JOINTS TO BE FULLY WELDED WHERE POSSIBLE.
- E. ENSURE VERTICAL FLATS ARE FULLY WELDED BOTH SIDES WHERE POSSIBLE.
- F. ALL SHARP EDGES AND BURRS ARE TO BE REMOVED.
- G. REMOVE ALL WELD SPATTER.
- H. HOLES BY PUNCHING ARE PERMITTED WITH REAMING.
- I. GALVANISING IS CARRIED OUT AFTER FABRICATION TO BS EN:ISO 1461

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. 360NM DESIGN LOAD AT STATED IN BS 8118, BS 6180, BS 6399 & BS 7818, CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY (CESW) 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. GRPFRP HANDRAILS ALSO AVAILABLE

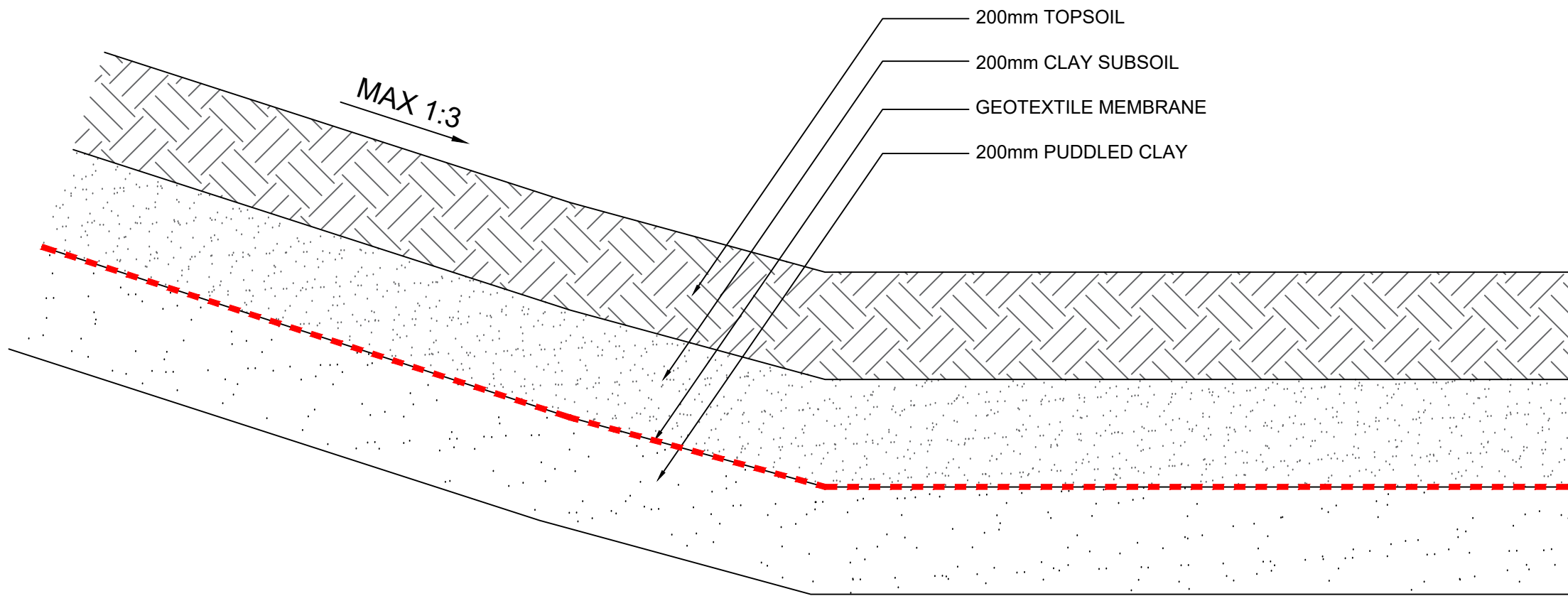
GRILLE NOTES:

- A. IN ACCORDANCE WITH FIGURE C.6 TYPICAL OUTFALL SAFETY GRILLE - FOR OUTFALLS OF 350MM DIAMETER OF GREATER - SEWERS FOR ADOPTION 7TH EDITION
- B. MATERIAL GRADE IS TO BE: BS EN 10025 S275
- C. ALL MILD STEEL TO BE HOT DIPPED GALVANIZED AFTER FABRICATION
- D. GALVANIZING TO BS EN: 1461
- E. WELDING TO BS EN 1011-2:2001
- F. HINGED ON ONE SIDE WITH PADLOCK FACILITY
- G. WEIGHT APPROX: 55KG



TYPICAL HEADWALL DETAIL  
(PIPES UP TO 600mm DIA)

DETAILS ON SHEET A RELEVANT FOR THE COMPENSATORY STORAGE  
BASIN ONLY



FLOOD COMPENSATION  
BASIN BUILD-UP

|     |            |                |    |     |     |
|-----|------------|----------------|----|-----|-----|
| P01 | 29-07-2026 | PLANNING ISSUE | RG | MG  | MG  |
| REV | DATE       | DESCRIPTION    | BY | CHK | APP |

|                                                                             |              |              |             |             |             |                  |               |            |  |
|-----------------------------------------------------------------------------|--------------|--------------|-------------|-------------|-------------|------------------|---------------|------------|--|
| DRAWING STATUS: <b>PLANNING</b>                                             |              |              |             |             |             |                  |               |            |  |
| CLIENT: <b>OAKMERE HOMES LTD</b>                                            |              |              |             |             |             |                  |               |            |  |
| ARCHITECT: <b>-</b>                                                         |              |              |             |             |             |                  |               |            |  |
| PROJECT: <b>NEW HOUSING DEVELOPMENT<br/>ACCRINGTON ROAD<br/>WHALLEY</b>     |              |              |             |             |             |                  |               |            |  |
| TITLE: <b>DRAINAGE DETAILS<br/>(SHEET 5)<br/>FLOOD COMPENSATORY STORAGE</b> |              |              |             |             |             |                  |               |            |  |
| STATUS:                                                                     | PROJECT No:  | ORIGINATOR   | PHASE       | LEVEL       | TYPE        | ROLE             | DRAWING No:   | REV:       |  |
| <b>S2</b>                                                                   | <b>21115</b> | <b>- GAD</b> | <b>- 01</b> | <b>- ZZ</b> | <b>- DR</b> | <b>- C</b>       | <b>- 1075</b> | <b>P01</b> |  |
| SCALE @ A1:                                                                 | DESIGNED:    | DRAWN:       | CHECKED:    | APPROVED:   |             | DATE:            |               |            |  |
| <b>1:20</b>                                                                 | <b>RG</b>    | <b>RG</b>    | <b>MG</b>   | <b>MG</b>   |             | <b>JULY 2026</b> |               |            |  |