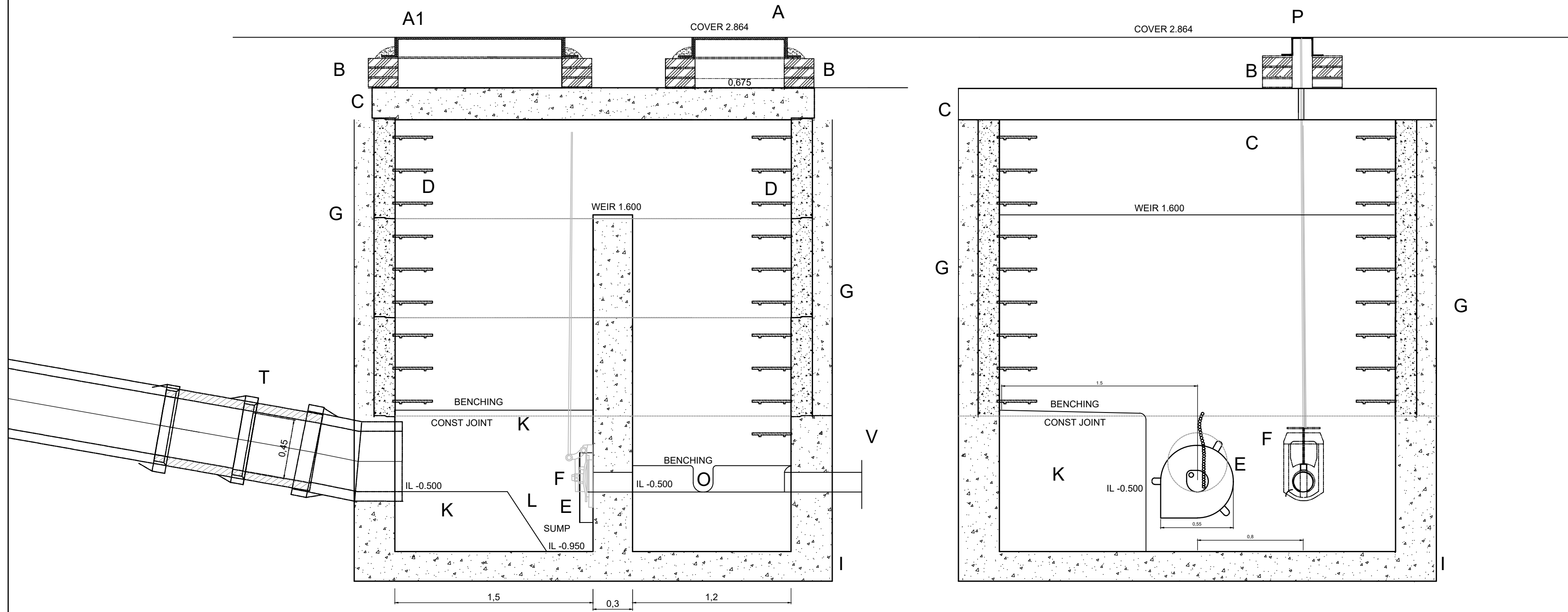
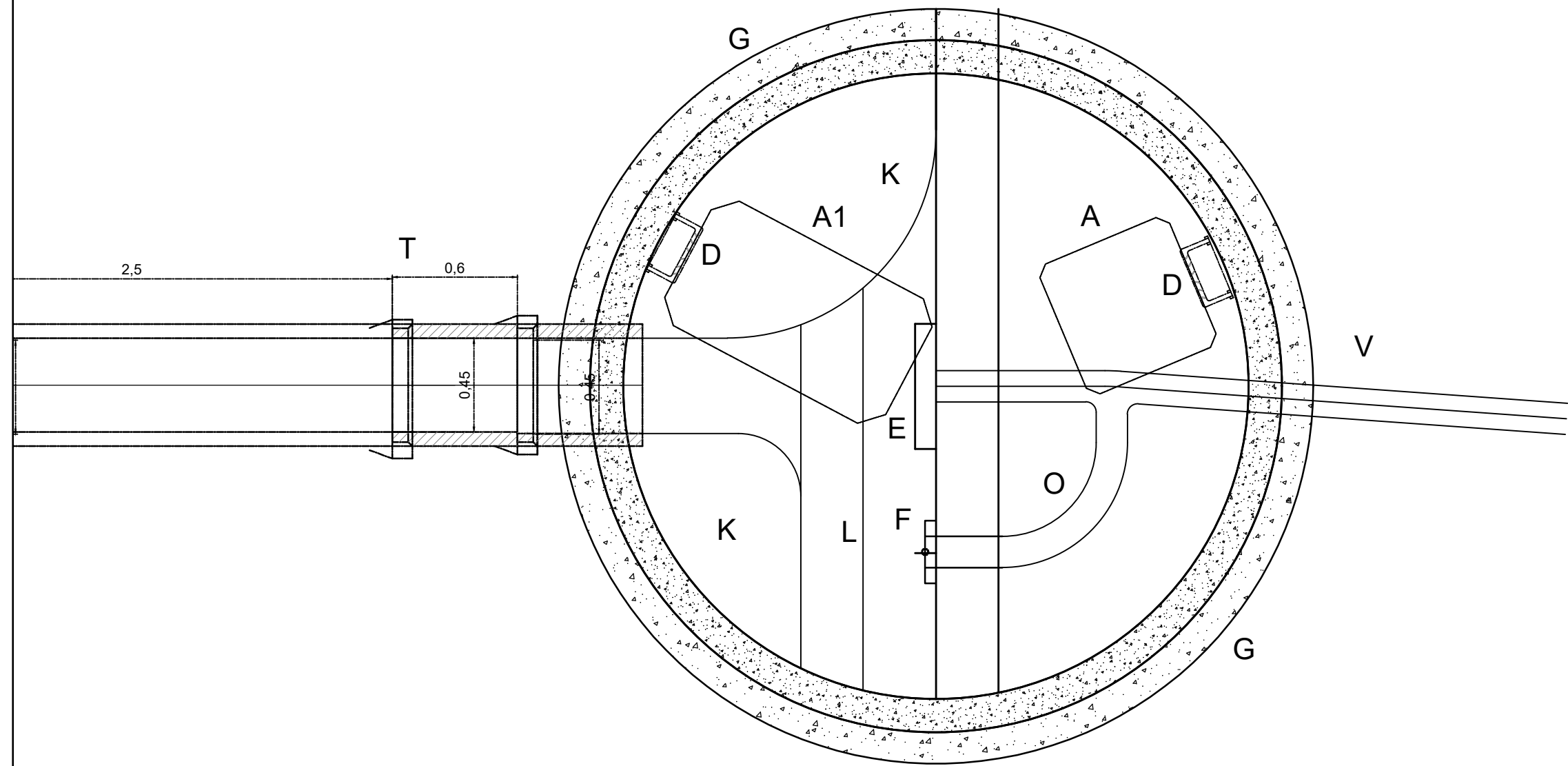




SECTIONAL ELEVATION ON CHAMBER

ELEVATION ON WEIR WALL



PLAN

- A 675X 675MM SQUARE OPENING DUCTILE IRON MANHOLE COVER AND FRAME TO BSEN 124 GRADE D400 BEDDED ON CLASS 1 :3 CEMENT MORTAR BED AND HAUNCH
- A1 1240X 675MM SQUARE OPENING DUCTILE IRON MANHOLE COVER AND FRAME TO BSEN 124 GRADE D400 BEDDED ON CLASS 1 :3 CEMENT MORTAR BED AND HAUNCH
- B MIN TWO COURSES MAX 4 COURSES OF CLASS B SOLID QUALITY ENGINEERING BRICKWORK TO BS3921 LAID IN ENGLISH BOND ON CLASS 1 MORTAR TO BS4721
- C 200MM THICK GRADE RC40 CONCRETE STRUCTURAL COVER SLAB USING SULPHATE RESISTING CEMENT. MEMBERS TO BE REINFORCED TO STRUCTURAL ENGINEERS DETAILS USING STEEL FABRIC TO BS 4483 OR STEEL BARS TO BS4482
- D POLY PROPELENE ENCAPSULATED DOUBLE STEP RUNGS TO CESWI SP CL 2.68
- E SHE 090-5000-2100-5000
HYDRO-BRAKE FLOW CONTROL FLOW CONTROL WITH PIVOTING BY-PASS DOOR AND ROOF MOUNTED STEEL OPERATING ROPE TO BE FITTED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS
- F 150MM DIA HAM BAKER PENSTOCK OR SIMILAR APPROVED WITH OPERATING ROD TO SURFACE BOX. OPERATING ROD TO BE POSITIONED SO THAT STOP TAP COVER CANNOT BE CLOSED WITH VALVE IN OPEN POSITION
- G PROPRIETARY PCC 3M DIAMETER MANHOLE RINGS TO BSEN 1917 WITH CONCRETE SURROUND OR SINGLE WIDE WALL ALTERNATIVE
- H 330MM THICK CLASS B ENGINEERING BRICKWORK WALLS. 1/2 BRICK RING ARCH TO PIPES OF 225 DIA AND ABOVE BRICKWORK TO BE LAID IN ENGLISH BOND ON 1:3 CEMENT / SAND MORTAR
- I 225MM THICK GRADE RC40 CONCRETE STRUCTURAL FLOOR USING SULPHATE RESISTING CEMENT. MEMBERS TO BE REINFORCED TO STRUCTURAL ENGINEERS DETAILS USING STEEL FABRIC TO BS 4483 OR STEEL BARS TO BS4482
- J 50MM DIAMETER TUBULAR MILD STEEL HANDRAIL TO BSEN 10296-1 AND 102971-1 GRADE HFW2 DIMENSIONED AS SHOWN. POSTS FIXED TO CONCRETE WITH 150 X 150 X 10MM MS SOLE PLATES FIXED WITH 4 NO M12 X 150 RAWL BOLT OR SIMILAR AT 100MM CENTERES. WHOLE ASSEMBLY TO BE HOT DIP GALVANISED TO BSEN ISO 1461
- K INSITU CONCRETE BENCHING IN C20 CONCRETE TO BS 5328 FINISHED WITH 20MM THICKNESS OF DENSE GRANOLITHIC CONCRETE TOPPING TO BS8204. BENCHING SLOPE TO BE 1 IN 10 TO 1 IN 30
- L RAMP DOWN TO FORM SUMP 450mm DEEP
- M PRE-FABRICATED HEADWALL GRILLAGE USING 10 X 50 MS FLATS, 10 X 50 X 50MS ANGLES AND 20MM DIAMETER BARS. WHOLE ASSEMBLY TO BE HOT DIP GALVANISED. EXACT DETAILS OF MOUNTING, HINGING, ACCESS TO BE PROVIDED BY MANUFACTURER. ON FRONT FACE OF HEADWALL FIT ADDITIONAL 50MM SQUARE MESH 6SWG GALVANISED TRASH SCREEN
- O 150MM WIDE BYPASS CHANNEL
- P 150MM SQUARE STOP TAP COVER HEAVY DUTY NON ROCKING HINGED SINGLE TRIANGULAR GREY IRON WITH 100MM DIAMETER CLEAR OPENING. BLACK COATED. NOT INDICATED ON DRAWING - EXACT POSITION TO BE DETERMINED ON SITE TO SUIT ACTUAL POSITION OF PENSTOCK SPINDLE. CONC SLAB TO BE DIAMOND CORED THROUGH AND STOP COVER POSITIONED ON SITE TO SUIT
- T 450MM DIAMETER PCC INLET PIPE TO BSEN 1916
- U 375MM DIA PCC OVERFLOW PIPE TO BSEN 1916
- V 150 DIA VC OUTLET PIPE

NOTE - ALL CUSTOM BUILT IRON WORK TO BE HOT DIP GALVANIZED PRIOR TO FINAL FIXING

ANY CONTRACTOR PREFERRED FLOW CONTROL PRODUCT MUST BE IN LINE WITH THE DEVELOPERS SPECIFICATION. IF AN ALTERNATIVE IS PERMISSIBLE, STEPHEN DAYKIN CONSULTING SHOULD BE NOTIFIED TO ANALYSE THE PRODUCTS HYDRAULIC PERFORMANCE.

HYDROBRAKE DIMENSIONS TO BE CHECKED AGAINST MANHOLE OPENING SIZES PRIOR TO PURCHASING.

STEPHEN DAYKIN CONSULTING'S PREFERRED CONSTRUCTION SEQUENCE IS TO INSTALL FLOW CONTROL DEVICE IN-SITU, NOT TO RETRO-FIT PRODUCT TO ENCLOSED FINISHED MANHOLE.

MANHOLE TO BE FITTED WITH WARNING SIGN READING CAUTION- HYDROBRAKE LOCATED HERE. THE SIGN SHALL BE 40MM HIGH RED LETTERING ON A WHITE PLASTIC BASE APPROXIMATELY 300MM X 300MM X6MM. THE BSE IS TO BE RESISTANT TO SEWERAGE ATTACK. THE SIGN IS TO BE FITTED TO A REMOVABLE SAFETY GRILLE AVAILABLE FROM COVER MANUFACTURER

A SIGN MUST BE FITTED IN THE UPSTREAM MANHOLE TO READ CAUTION- HYDROBRAKE DOWNSTREAM

A SIGN MUST BE FITTED TO THE DOWNSTREAM MANHOLE TO READ CAUTION HYDROBRAKE UPSTREAM

PLEASE NOTE OUR NEW CONTACT DETAILS IN THE TITLE BOX

rev	description	date	initial

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client

project

Proposed residential development at
**York Gardens,
Gosberton**

title

**Surface water sewer control
chamber S9**

drawnSD

date25.10.23

scale1:25

sizeA1

SSIP

purpose of issue

Preliminary

dwg no.

E827-41

rev.

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