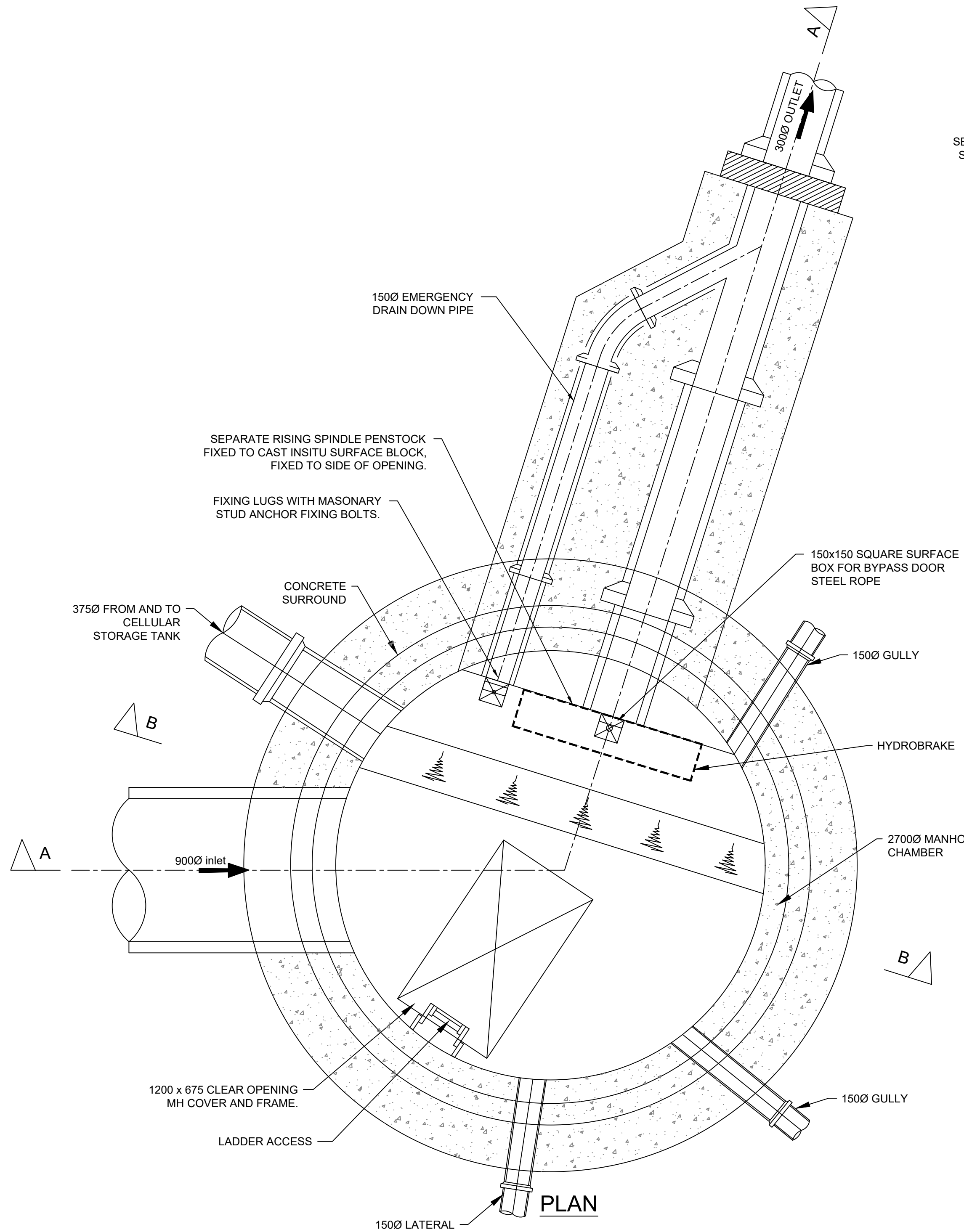


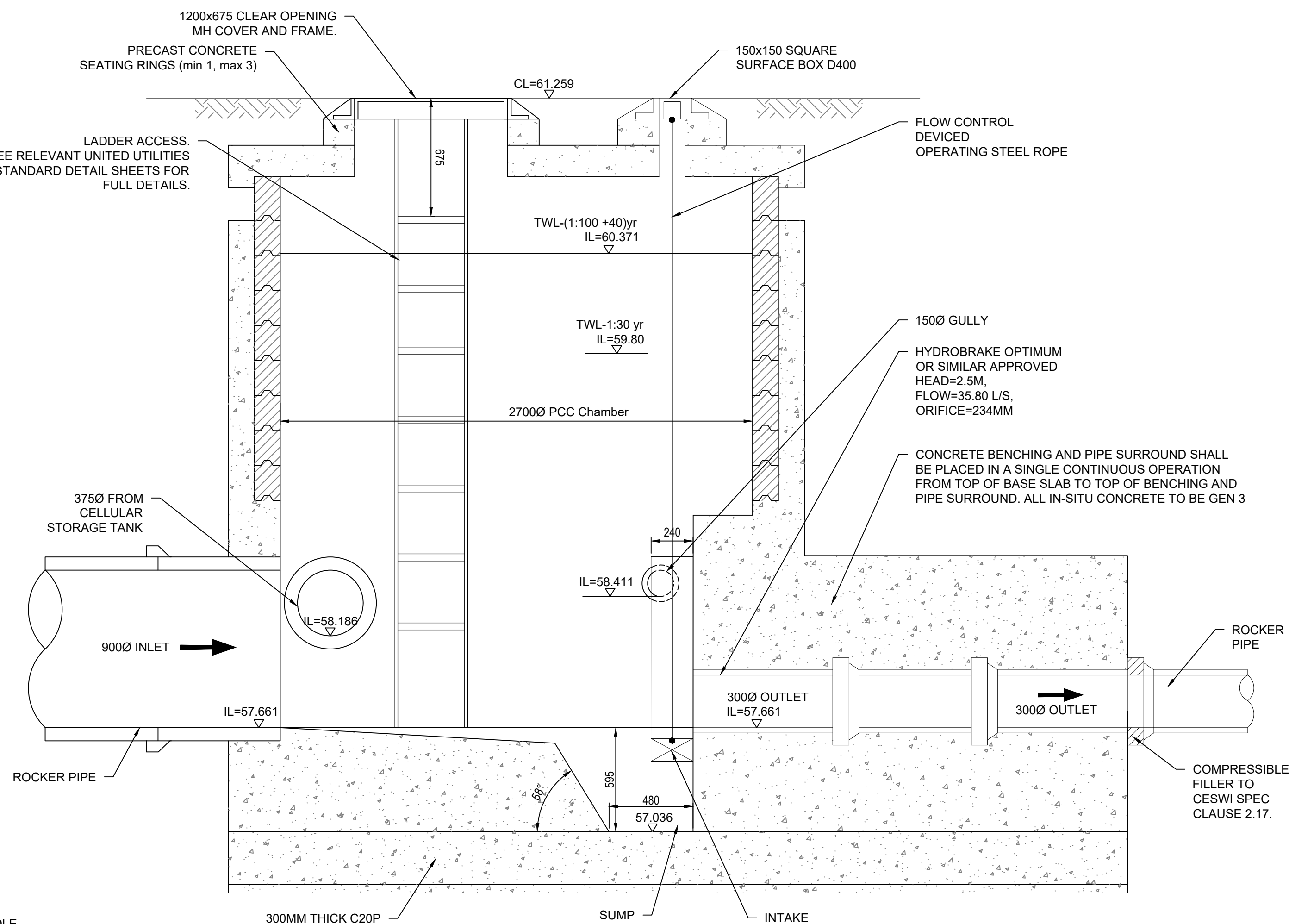


PLAN

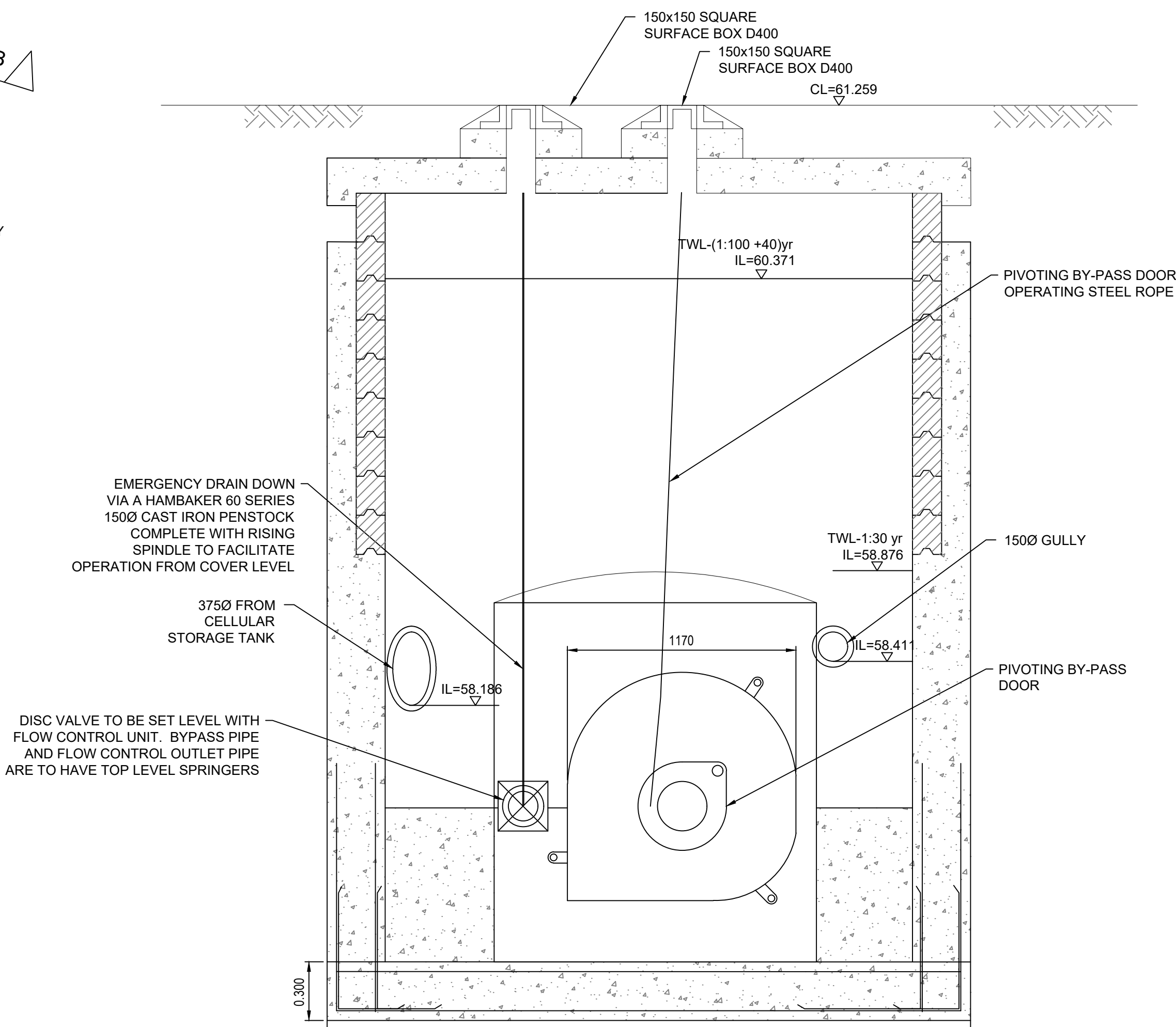
S10
2700Ø
CL=61.259
IL=57.661
DEPTH TO INVERT= 3.598m
DEPTH TO SOFFIT 900Ø INLET= 2.698m
DEPTH TO SOFFIT 300Ø OUTLET= 3.298m

HYDROBRAKE S10 DETAILS

HYDROBRAKE 'OPTIMUM'
OR SIMILAR APPROVED
MD-SHE-0234-3580-2500-3580
DISCHARGE RATE: 35.80 L/s
HEAD=2.5 m
ORIFICE DIAMETER: 234mm



SECTION A-A



SECTION B-B

- NOTES:**
1. ALL ADOPTABLE DRAINAGE WORKS HAVE BEEN DESIGNED AND ARE TO BE CONSTRUCTED IN ACCORDANCE WITH "SEWERS FOR ADOPTION 6TH EDITION" AND UU SUPPLEMENT GUIDELINES AND STANDARD DETAILS
 2. ALL CLAY PIPE WORK SHALL BE EXTRA STRENGTH CLAYWARE TO B.S EN 295:1991 PART 1
 3. ALL PRECAST CONCRETE PIPEWORK SHALL BE TO THE CLASS STATED ON THE DRAWINGS IN ACCORDANCE WITH B.S EN 1916:2002. ALSO, ALL MANHOLES AND CHAMBERS SHALL BE TO B.S EN 1917:2002
 4. THE CONTRACTOR MAY ELECT TO USE REINFORCED PVC PIPES AS COVERED BY B.S 4660:2000 & B.S EN 1401-1. STRUCTURED WALL UPVC PIPES TO COMPLY WITH WIS 4-35-01 UPTO AND INCLUDING 300MM. (BY PRIOR AGREEMENT WITH ADOPTING AUTHORITY) MAX. PIPE LENGTH TO BE 3.0M
 5. ALL LEVELS RELATE TO TOPOGRAPHICAL SURVEY DATUM
 6. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS
 7. PLOT DRAINAGE CONNECTIONS TO SEWERS MUST BE 150MM DIAMETER AND UNLESS OTHERWISE STATED LAID TO THE INVERT SHOWN.
 8. LEVELS GIVEN ON DRAGOUT CHAMBERS ARE INCOMING PIPE LEVELS
 9. PLOT DRAINAGE RUNS TO BE KEPT WITHIN THE CURTILAGE OF THE PLOT THEY SERVE WHEREVER POSSIBLE.
 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ANY EXISTING INVERT LEVELS AND EXISTING SITE LEVELS (EXISTING BOUNDARY LEVELS) INDICATED ON DRAWINGS ARE CORRECT BEFORE WORKS COMMENCE.
 11. ALL CONNECTIONS TO ADOPTABLE SEWERS SHALL BE MANUFACTURED JUNCTION PIPES. SADDLE CONNECTIONS WILL NOT BE PERMITTED, UNLESS SPECIFIED.
 12. ALL SEWERS FOR ADOPTION WITH GREATER THAN 1.20M COVER IN ROADS OR 0.9M COVER IN FIELDS SHALL HAVE CLASS S GRANULAR BED AND SURROUND.
 13. ANY SEWER FOR ADOPTION WITH LESS THAN 1.2M COVER IN ROADS OR 0.9M COVER IN FIELDS SHALL HAVE A MINIMUM OF 150MM ST4 CONCRETE SURROUND. FLEXIBILITY SHALL BE MAINTAINED BY THE PROVISION OF FLEXCELL OR SIMILAR APPROVED JOINT FILLER BREAKS IN THE CONCRETE SURROUND AT EACH PIPE JOINT
 14. IT IS THE RESPONSIBILITY FOR THE CONTRACTOR TO CHECK ALL ONSITE EXISTING GROUND LEVELS PRIOR TO COMMENCING AND IF THERE ARE ANY DISCREPANCIES THE CONTRACTOR MUST REPORT TO THE ENGINEER IMMEDIATELY
 15. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE DRAINAGE AUTHORITY OF THE COMMENCEMENT OF ANY DRAINAGE WORKS AND TO COMPLETE ANY REQUIRED SEWER CONNECTION FORMS INCLUSIVE OF PAYING ANY REQUIRED FEES. THE CONTRACTOR MUST ALLOW FOR THE SUPERVISION OF THE SEWER CONSTRUCTION WORKS BY THE LOCAL AUTHORITY AND NOTIFY THE SUPERVISING OFFICER, GIVING NOTICE WHICH IN ACCORDANCE WORTH THE L.A REQUIREMENTS.
 16. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO APPLY FOR ANY REQUIRED ROAD OPENING PERMITS WITH THE LOCAL AUTHORITY INCLUDING THE PAYMENT OF ANY FEES
 17. BEFORE COMMENCING ANY WORKS ON SITE, THE CONTRACTOR MUST CONFIRM EXACT LOCATION AND DEPTH OF ANY SERVICES/APPARATUS BY THE USE OF ELECTRO-LOCATION OR SIMILAR DEVICES AND BY HAND DUG TRIAL HOLES
 - MECHANICAL EXCAVATOR, POWER TOOLS ETC. MUST NOT BE USED TO LOCATE EXISTING SERVICES/APPARATUS.

H	S10 HYDROBRAKE DETAILS AMENDED TO SUIT UU S104 TECHNICAL APPRAISAL COMMENTS OF 24.08.2020	26.08.2020	CDW	ARA
G	S10 HYDROBRAKE DETAILS AMENDED TO SUIT UU S104 TECHNICAL APPRAISAL COMMENTS OF 06.08.2020	10.08.2020	CDW	ARA
F	VARIOUS AMENDMENT TO UU COMMENTS	23.07.2020	CDW	ARA
E	SURFACE BOXES LABELLED UP, SUMP AND FLOW CONTROL UNIT RE-DRAWN TO SCALE, PRE-CAST CONCRETE SEATING UNITS PUT PLACED BENEATH COVERS, LADDER ACCESS AND MANHOLE COVER ROTATED TO AVOID INCOMING LATERAL, OUTLET PIPE AMENDED TO 300DIA TO SUIT S104 TECHNICAL APPRAISAL COMMENTS OF 28.04.20	09.06.2020	CDW	ARA
D	LADDER ACCESS ADDED AND LATERAL RE-POSITIONED TO SEC 104 COMMENTS	24.03.2020	CDW	ARA
C	HYDROBRAKE CONFIGURED TO CLIENTS REQUEST	02.09.2019	CDW	ARA
B	HYDROBRAKE AMENDED TO NEW DRAINAGE LAYOUT	27.08.2019	CDW	ARA
A	REVISED TO SEC 104 COMMENTS	10.05.2019	RL	ARA
Rev:	Description:	Date:	By:	Chkd:

Status: **APPROVAL**

Client: **COUNTRYSIDE PROPERTIES**

Project: **BELLE VUE GREYHOUND TRACK GORTON**

Drg Title: **HYDROBRAKE DETAIL 1 MANHOLE S10**

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