

CALLUSERS\MICHAEL BEAVER\ONE DRIVE - THE QUIKRETE COMPANIES\DYNAMICS\365 - CONTECH - PROJECTS\855358\PRODUCTS\855358-10-CASCADE\DRAWINGS\855358-10-CS-12-CONFAB.DWG 5/8/2026 3:28 PM



INTERNAL COMPONENTS TO BE INSTALLED
ON SITE BY CONTECH FIELD CONSULTANT.
PRECASTER TO SHIP ALL INTERNAL
COMPONENTS WITH STRUCTURE

SEE INSTALLATION NOTE A



5888 / 757440
LAYOUT 1A
79.87TS

COUNT	DESCRIPTION	PART NUMBER	PROVIDED BY	INSTALLED BY
1	CS-12 CYLINDER INSERT, STD	325-003982	CONTECH	CONTRACTOR
1	CS-12 CYLINDER TOP	325-003988	CONTECH	CONTRACTOR
10	CS-12 ALUMINUM INSTALLATION BRACKETS	325-003971	CONTECH	PRECASTER
1	CS-12 HARDWARE KIT	325-003983	CONTECH	CONTRACTOR
1	SEALANT FOR JOINTS		PRECASTER	CONTRACTOR
2	24"Ø X 4" FRAME AND COVER, EJ #41600389, OR EQUIV.	325-000350	CONTECH	CONTRACTOR

1. DESIGN LOADING - AASHTO HS-20
2. ALL PRECAST CONCRETE MANUFACTURED PARTS SHALL CONFORM TO ASTM C-478, WITH MINIMUM CONCRETE STRENGTH OF 4000 PSI AT 28 DAYS
3. JOINT SEALANT SHALL CONFORM TO ASTM C-990 OR ASTM C-443
4. GROUND WATER ELEVATION ASSUMED AT OUTLET INVERT
5. MANUFACTURING TOLERANCE = +/- 1/2-INCH
6. SOME HIDDEN LINES MAY BE OMITTED FOR CLARITY

- A. PRECASTER TO SHIP ACCESS CASTINGS WITH STRUCTURE
- B. REFER TO CONTECH ASSEMBLY INSTRUCTIONS FOR ADDITIONAL INFORMATION.
- C. PRECASTER TO INSTALL INTERNAL COMPONENTS PRIOR TO SHIPPING UNLESS INSTRUCTED OTHERWISE BY CONTECH
- D. PIPE OPENINGS SHALL BE STENCILED "INLET" OR "OUTLET" AS APPROPRIATE
- E. APPLYING ALIGNMENT MARKS ON ALL PIECES OF MULTIPLE PIECE ASSEMBLIES IS ENCOURAGED
- F. IF STRUCTURE IS DELIVERED IN MULTIPLE SECTIONS, EACH PIECE SHALL BE LABELED WITH THE CONTECH PROJECT NUMBER, SEQUENCE NUMBER AND SITE DESIGNATION

RIM ELEV. = 1019.03+/-
TOP OF STRUCTURE = 1018.20
INLET PIPE 1 INVERT ELEV. = 1009.20
INLET PIPE 1 DIAMETER AND MATERIAL = 36"Ø RCP
OUTLET PIPE INVERT ELEV. = 1009.20
OUTLET PIPE DIAMETER AND MATERIAL = 36"Ø RCP
OUTSIDE BOTTOM OF STRUCTURE ELEV. = 999.03

APPROXIMATE HEAVIEST PICK = 44500 LBS.
STRUCTURE IS DELIVERED IN 5 PIECES

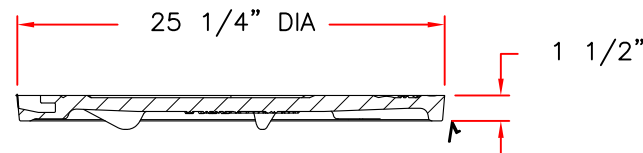
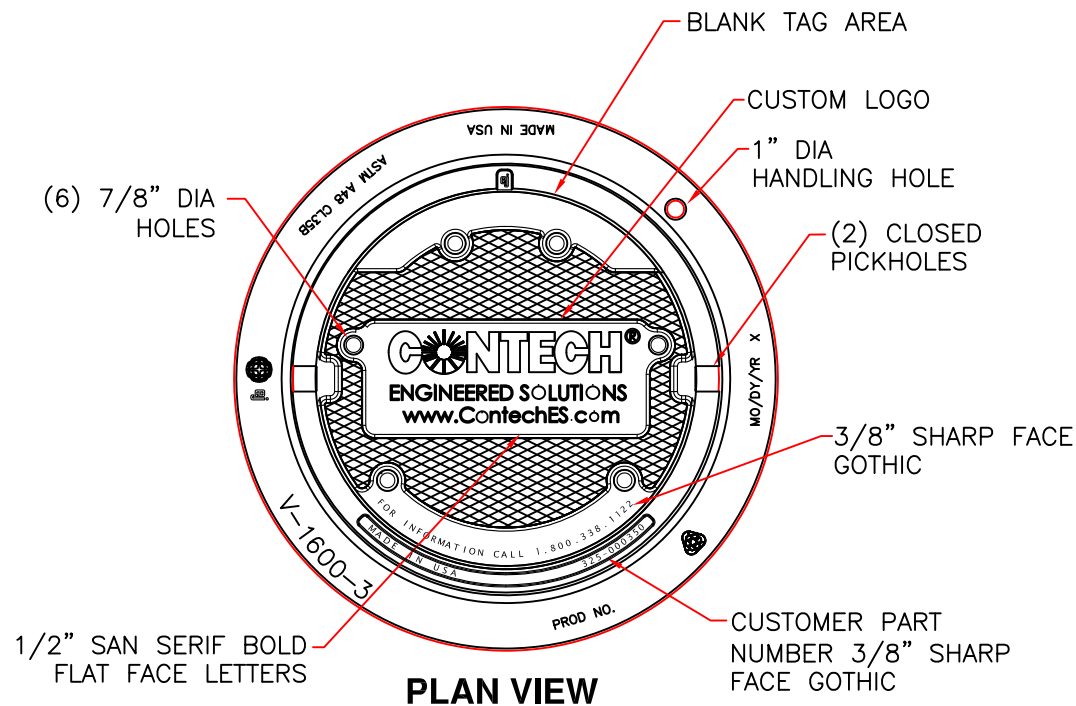
TOP SLAB = 25500 LBS.
RISER 3 = 24500 LBS.
RISER 2 = 44500 LBS.
CONTROL RISER = 32500 LBS.
BASE SECTION = 44500 LBS.



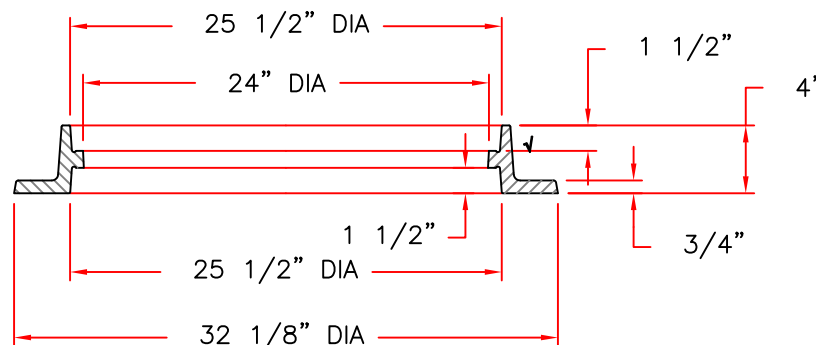
 ENGINEERED SOLUTIONS LLC <i>A CONTECH COMPANY</i> 9100 Centre Pointe Dr., Suite 400, West Chester, OH 45069 800-338-1222 513-945-7000 513-945-7003 FAX		CASCADE <i>separator®</i> FOR PATENT INFORMATION, GO TO www.CONTECH.com/SEP		CS-12 - 855358-010 FUQUA DEVELOPMENT - STONEDALE NICHOLASVILLE, KY SITE DESIGNATION: WQU #1															
DATE:		5/8/2026																	
DESIGNED:		MDB		DRAWN:		JRP													
CHECKED:		LJK		APPROVED:		MDB													
PROJECT No.:		855358		SEQUENCE No.:		010													
SHEET:		1		OF		1													

26-2485 855358 Fuqua Development

V1600-3 V1610-3 Assembly



COVER SECTION



RING SECTION

Product Number

41600389

Design Features

- Materials
 - Frame
 - Gray Iron (CL35B)
 - Cover
 - Gray Iron (CL35B)

- Design Load
 - Heavy Duty
- Open Area
 - n/a
- Coating
 - Undipped
- √ Designates Machined Surface

Certification

-
- ASTM A48
-
- Country of Origin: USA

Major Components

41600310
41600374

Drawing Revision

05/02/2008 Designer: DEW
6/20/2017 Revised By: DAE

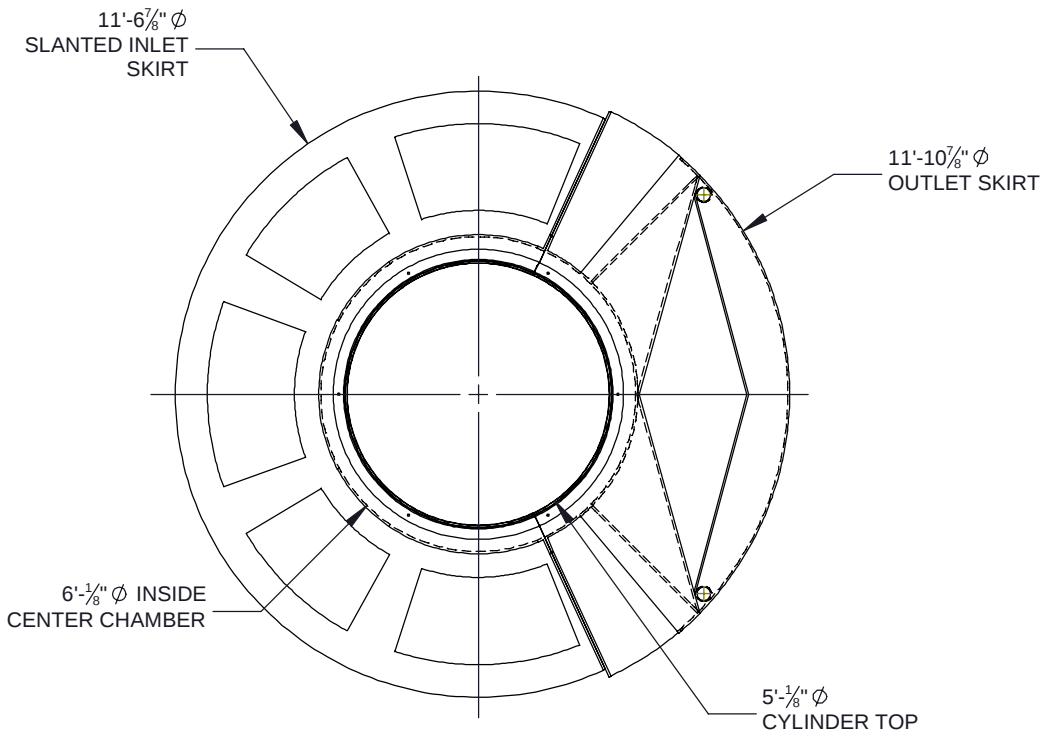
Disclaimer

Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

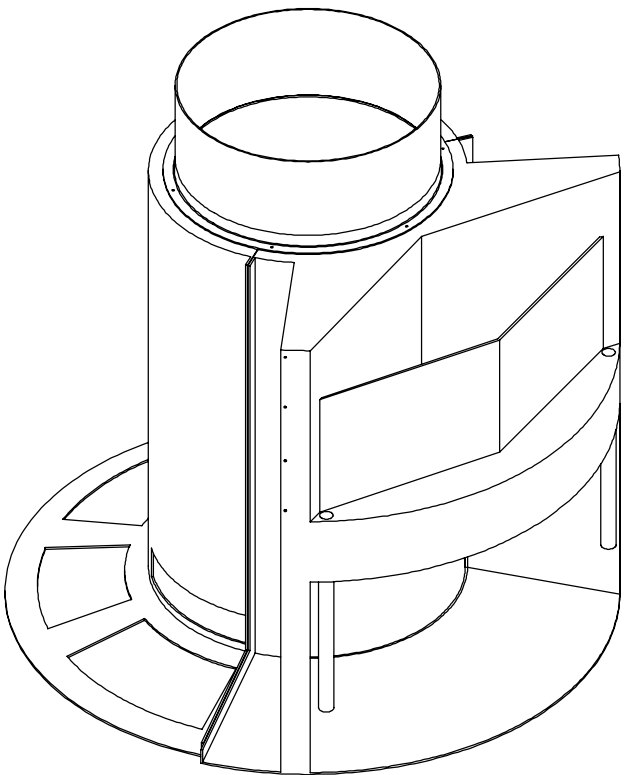
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Contact

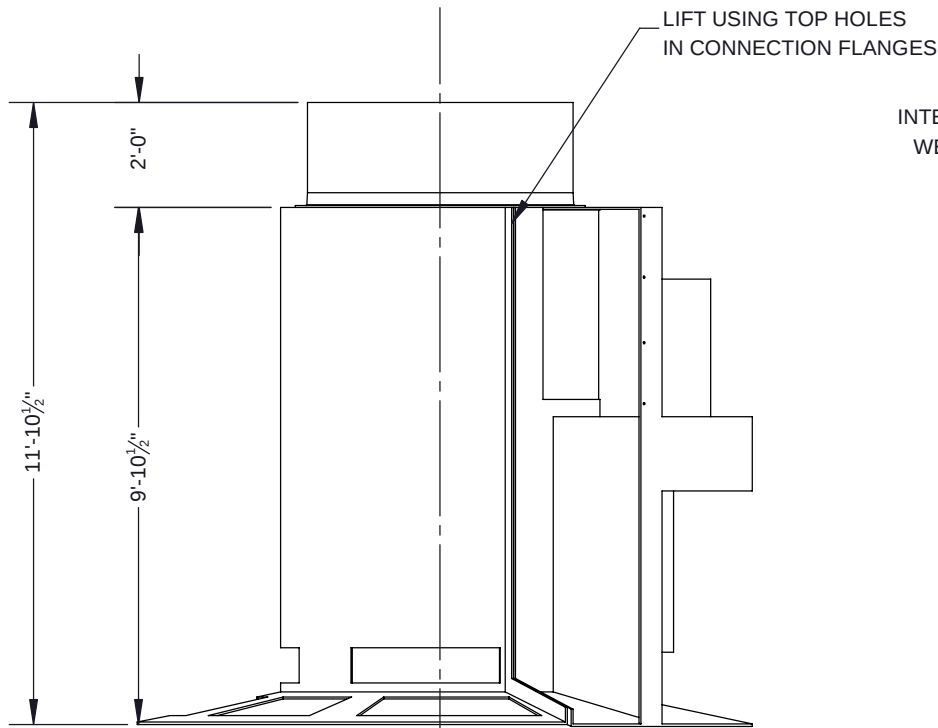
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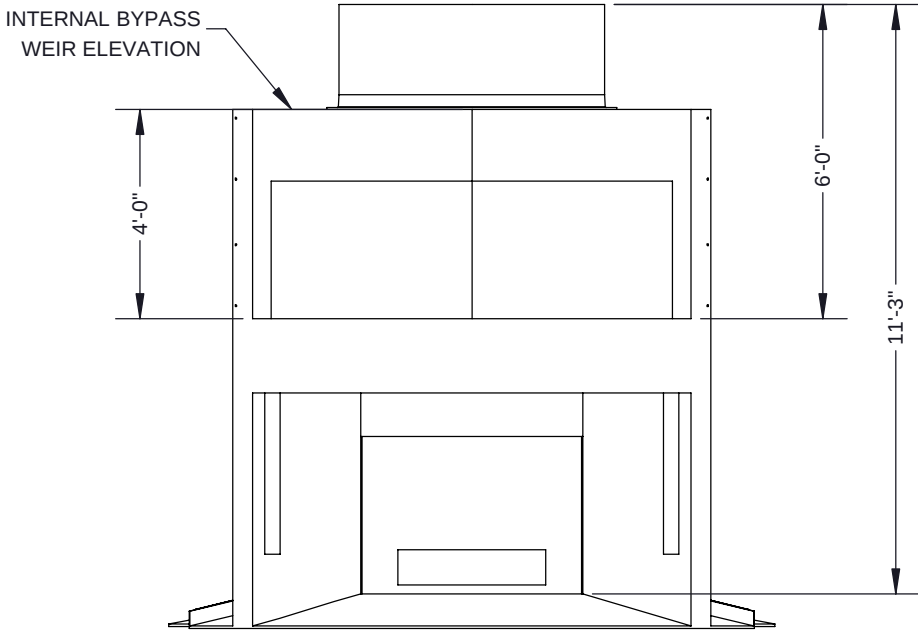
PLAN VIEW



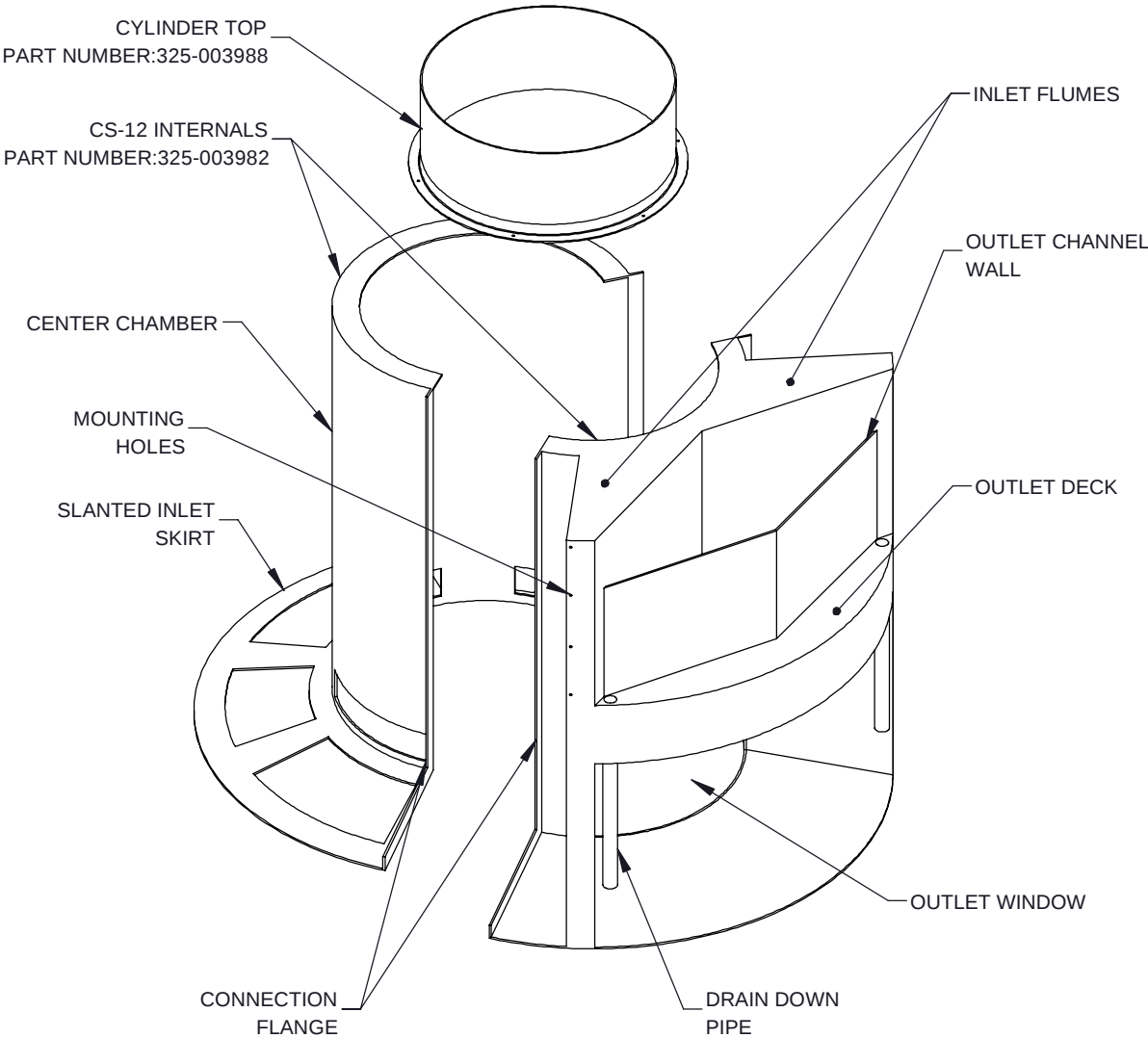
ISOMETRIC VIEW



ELEVATION VIEW



ELEVATION VIEW: OUTLET SIDE



EXPLODED ISOMETRIC VIEW

NOTES:
1. SEE CASCADE SEPARATOR INSTALLATION GUIDE FOR ADDITIONAL INFORMATION

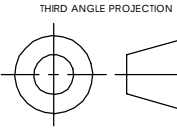
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CASCADE
separator™

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REFERENCE DETAIL
INTERNALS CS-12 &
CYLINDER TOP
CASCADE SEPARATOR



UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

TOLERANCES:
FRACTIONAL $\pm 1/16$
ANGLES ± 1 DEGREE
TWO PLACE DECIMAL ± 0.06
THREE PLACE DECIMAL ± 0.030

PART NUMBER: 325-003982 & 003988		
APPROVED BY: M. BROOKS	DRAWN BY: J. BELL	
APPROVED BY DATE: 2021.10.21	DRAWN BY DATE: 2021.09.16	REV: C
SCALE: N/A	SHEET 1 OF 1	