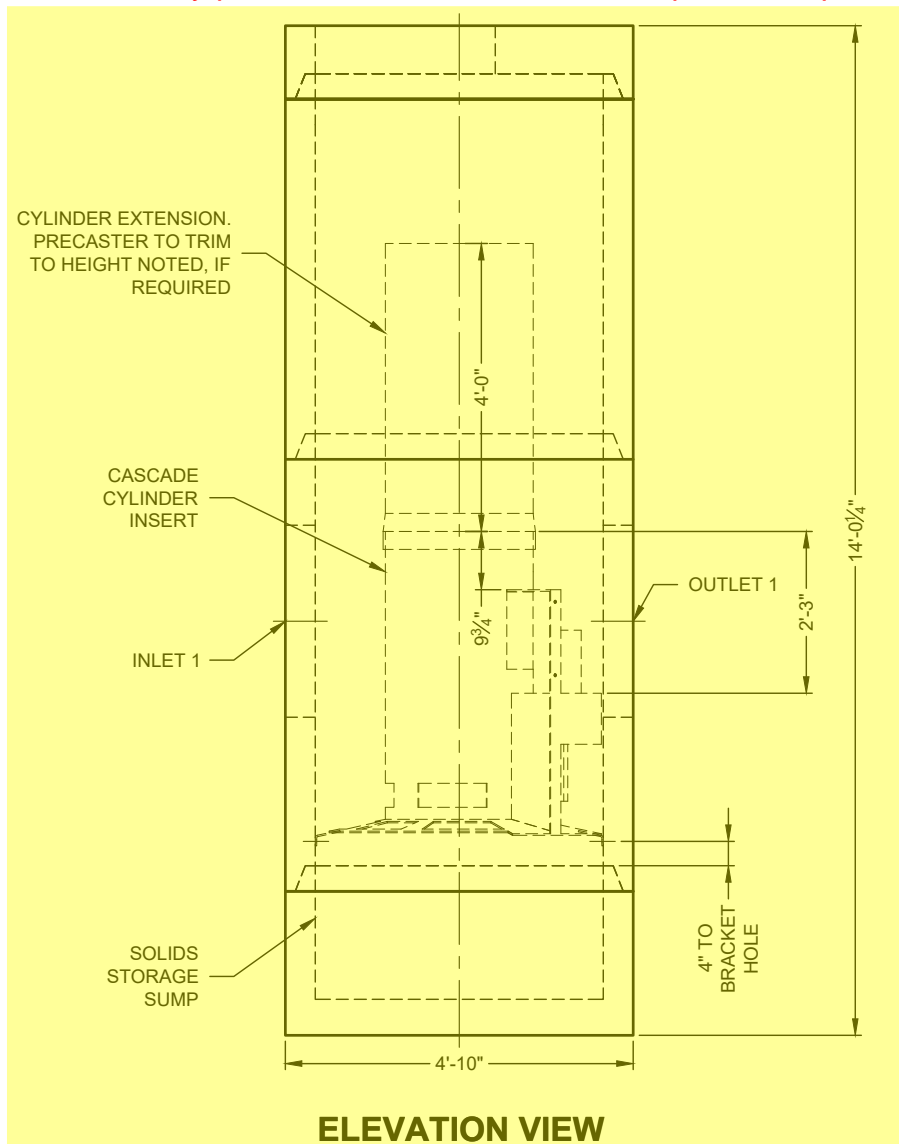


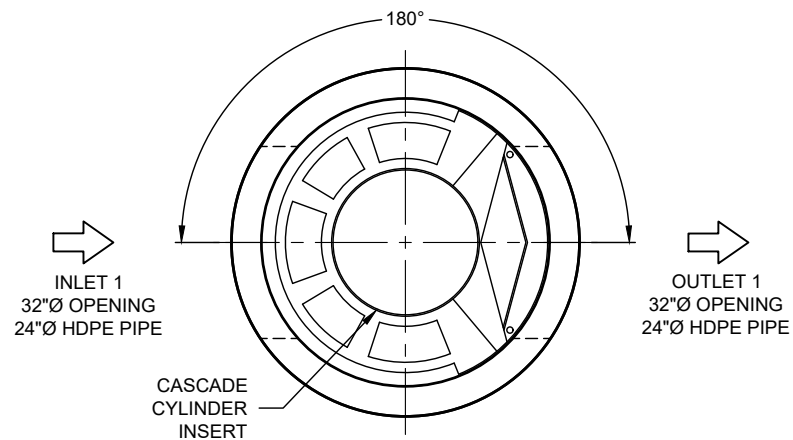
**PLAN VIEW**  
INTERNALS NOT SHOWN

15-CS-4

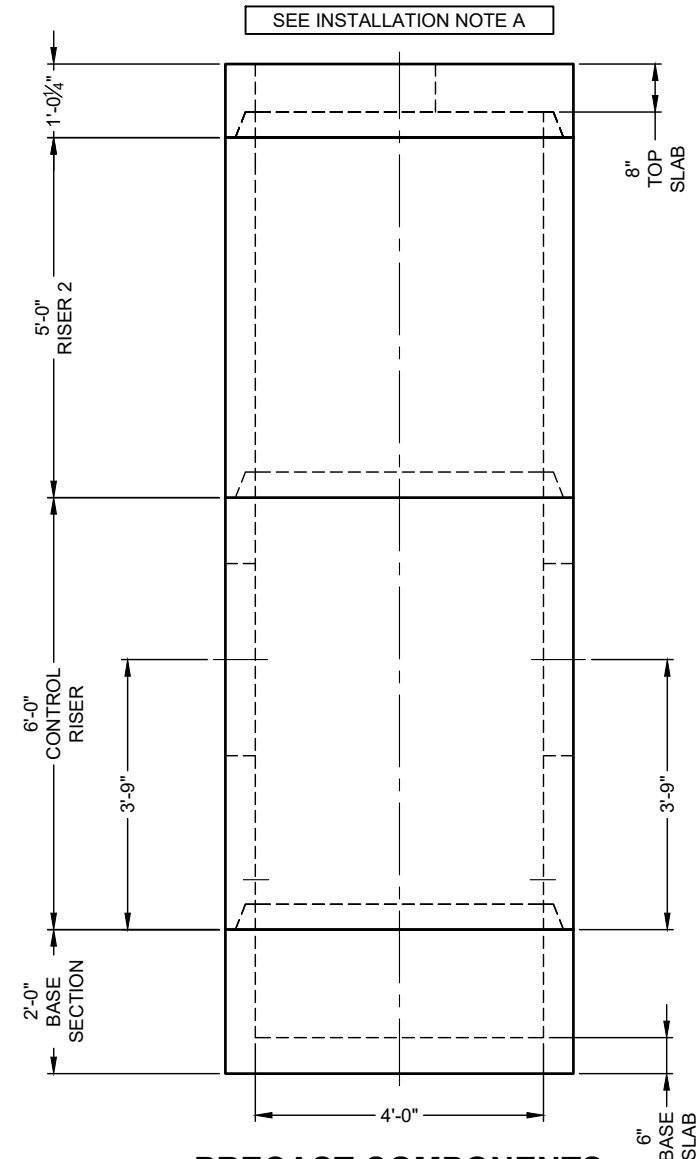
ICAST to fully pre-assemble internal materials prior to shipment



**ELEVATION VIEW**



**PLAN VIEW FOR PIPE ORIENTATION**  
TOP SLAB NOT SHOWN



**PRECAST COMPONENTS**  
INTERNALS NOT SHOWN

ICAST  
5888 / 757440  
LAYOUT 1A  
6.58TS

CONTECH  
**FABRICATION**  
DRAWING

**MATERIAL LIST**

COUNT	DESCRIPTION	PART NUMBER	PROVIDED BY	INSTALLED BY
1	CS-4 CYLINDER INSERT, STD.	325-003949	CONTECH	PRECASTER
4	CS-4 ALUMINUM INSTALLATION BRACKETS	325-003956	CONTECH	PRECASTER
1	CS-4 HARDWARE KIT	325-003955	CONTECH	PRECASTER
1	CS-4 FIBERGLASS CYLINDER EXTENSION, 4 FT.	325-003960	CONTECH	CONTRACTOR
1	SEALANT FOR JOINTS		PRECASTER	CONTRACTOR
1	30"Ø X 4" FRAME AND COVER, EJ #41600483, OR EQUIV.	325-000332	CONTECH	CONTRACTOR

**GENERAL NOTES**

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

**INSTALLATION NOTES**

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

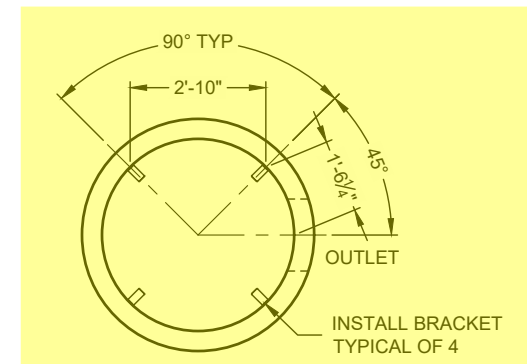
**SITE INFORMATION**

RIM ELEV. = 507.56+/-  
TOP OF STRUCTURE = 506.72  
INLET PIPE 1 INVERT ELEV. = 497.45  
INLET PIPE 1 DIAMETER AND MATERIAL = 24"Ø HDPE  
OUTLET PIPE INVERT ELEV. = 497.45  
OUTLET PIPE DIAMETER AND MATERIAL = 24"Ø HDPE  
OUTSIDE BOTTOM OF STRUCTURE ELEV. = 492.70

**STRUCTURE WEIGHT**

APPROXIMATE HEAVIEST PICK = 5000 LBS.  
STRUCTURE IS DELIVERED IN 4 PIECES

TOP SLAB = 2000 LBS.  
RISER 2 = 4500 LBS. LBS.  
CONTROL RISER = 5000 LBS.  
BASE SECTION = 3000 LBS.



**SUPPORT BRACKET LAYOUT PLAN VIEW**

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MARK	DATE	REVISION DESCRIPTION	BY

CS-4 - 869435-015  
GARRISON GARDENS (10.15.25)  
BOWLING GREEN, KY  
SITE DESIGNATION: WQS 2-1

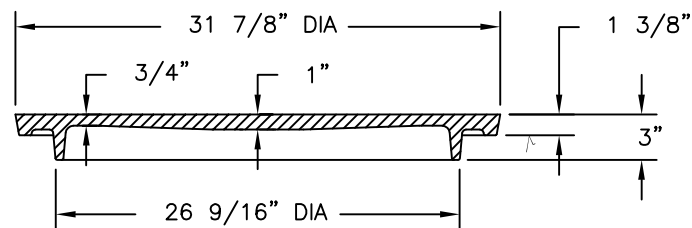
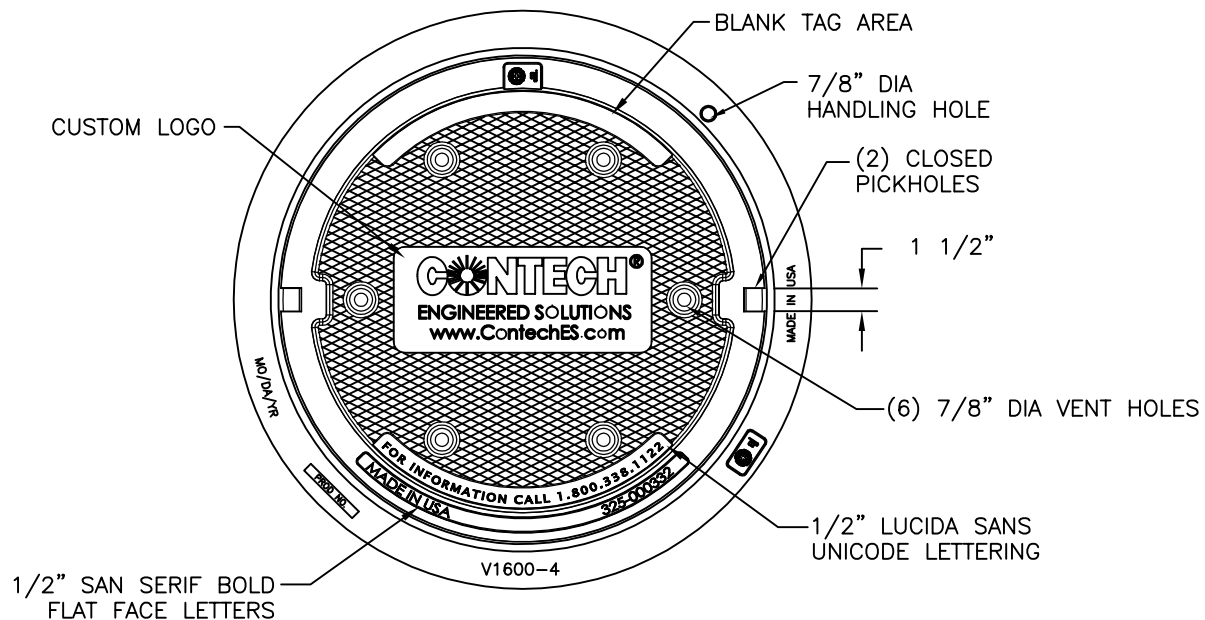
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ENGINEERED SOLUTIONS LLC  
A CONTECH COMPANY

810 Centre Pointe Dr., Suite 400, West Chester, OH 45380  
800.338.1122 513.645.7000 513.645.7803 FAX

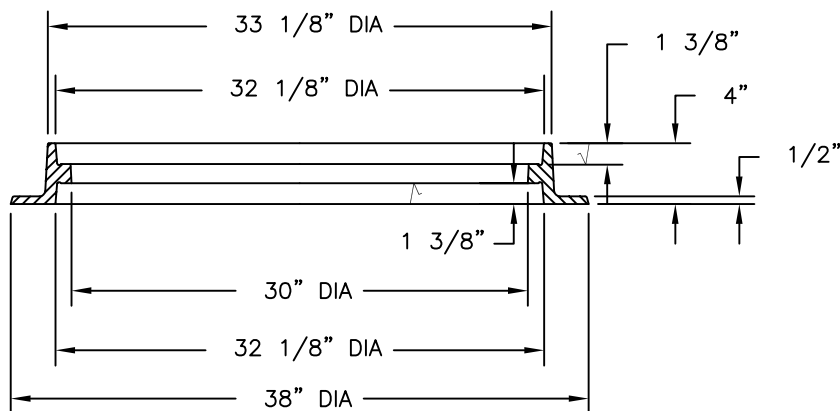
**CASCADE separator**  
FOR PATENT INFORMATION, GO TO www.contech.com/IP

DATE:	03/27/26		
DESIGNED:	MDB	DRAWN:	JAVG/LRP
CHECKED:	MDB	APPROVED:	MDB
PROJECT No.:	869435	SEQUENCE No.:	015
SHEET:	1	OF	1

# 1810B4 V1600-4 Assembly



**COVER SECTION**



**FRAME SECTION**

**Product Number**  
41600483

**Design Features**

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

00180783  
41600410

**Drawing Revision**

05/09/2007 Designer: SMH  
6/26/2017 Revised By: DAE

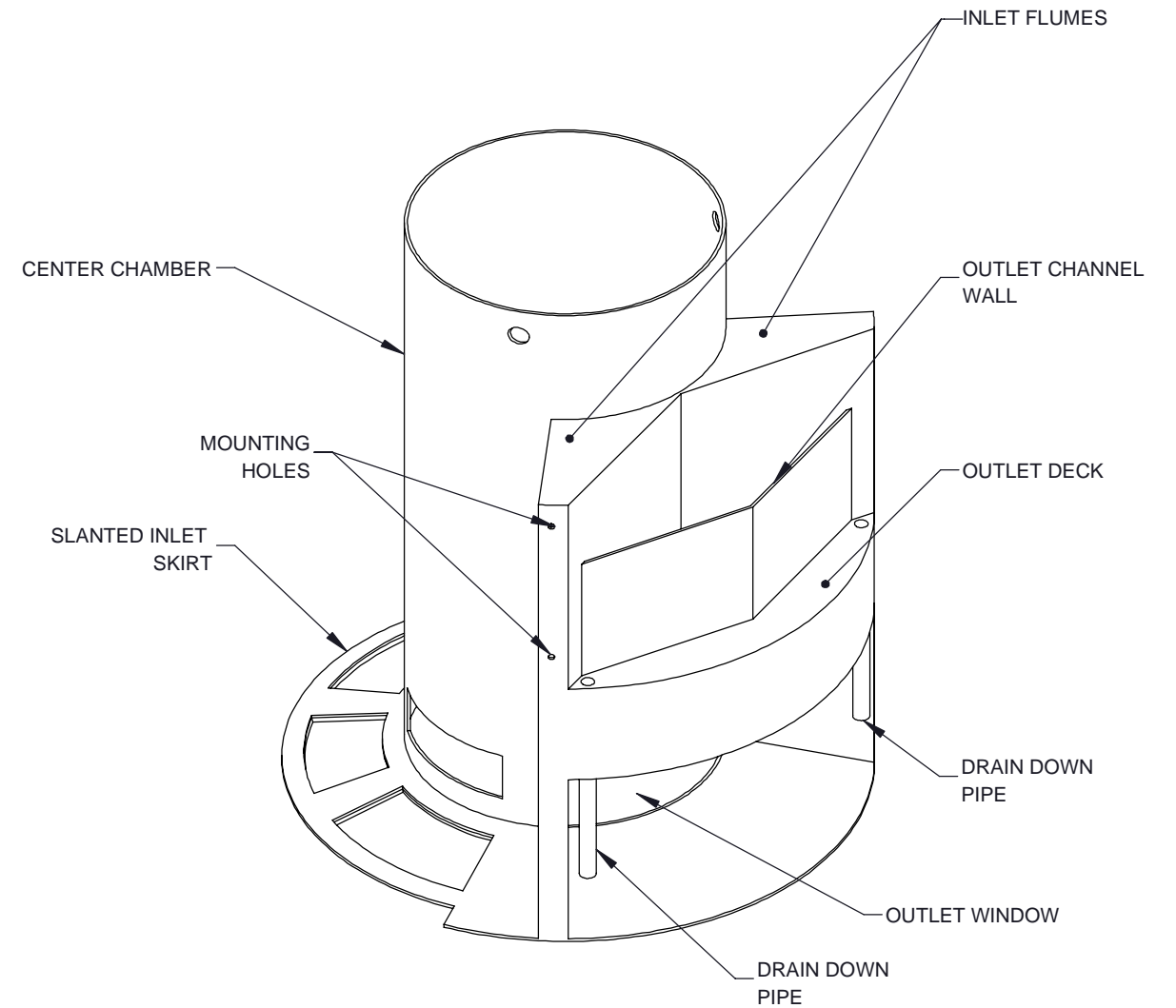
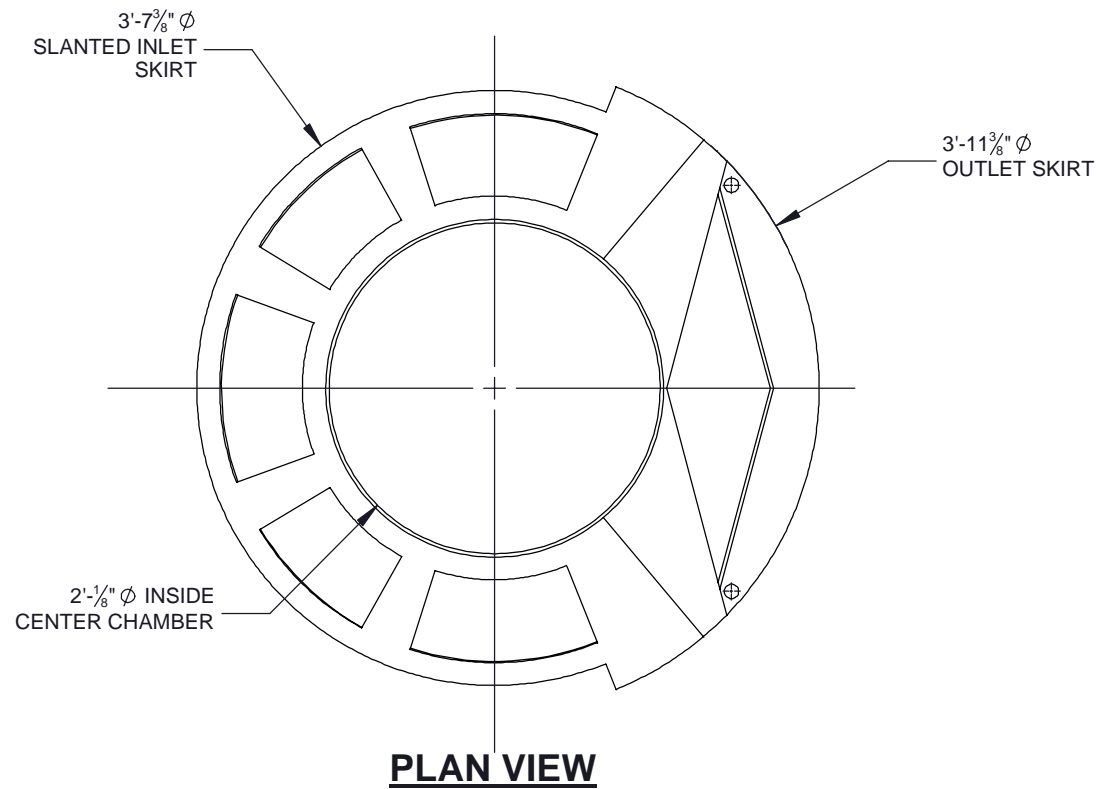
**Disclaimer**

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

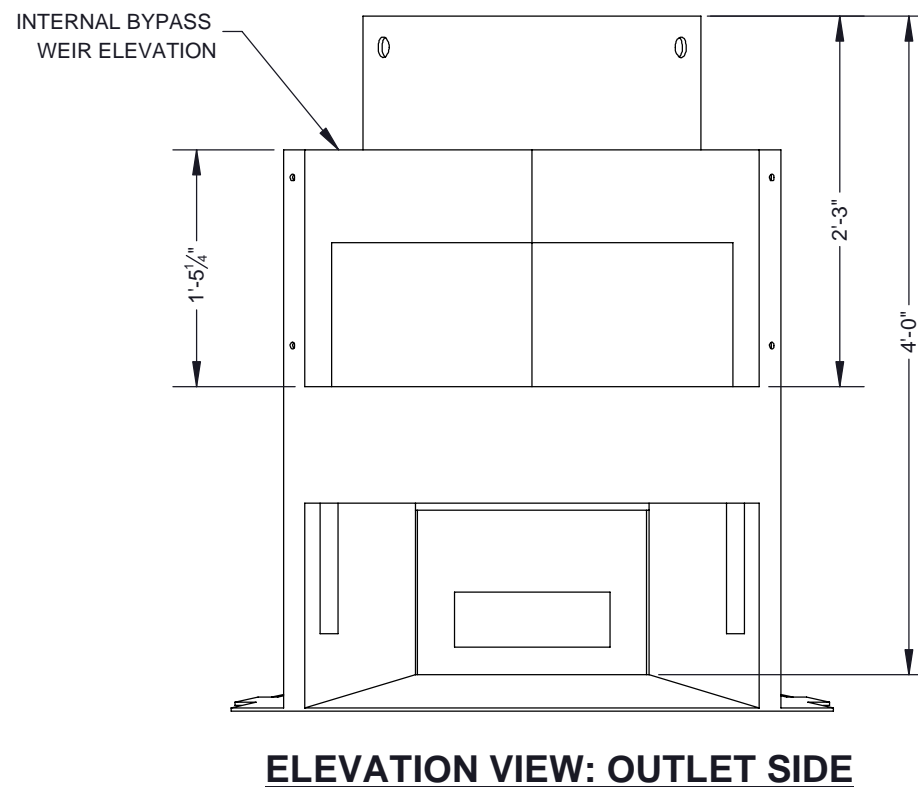
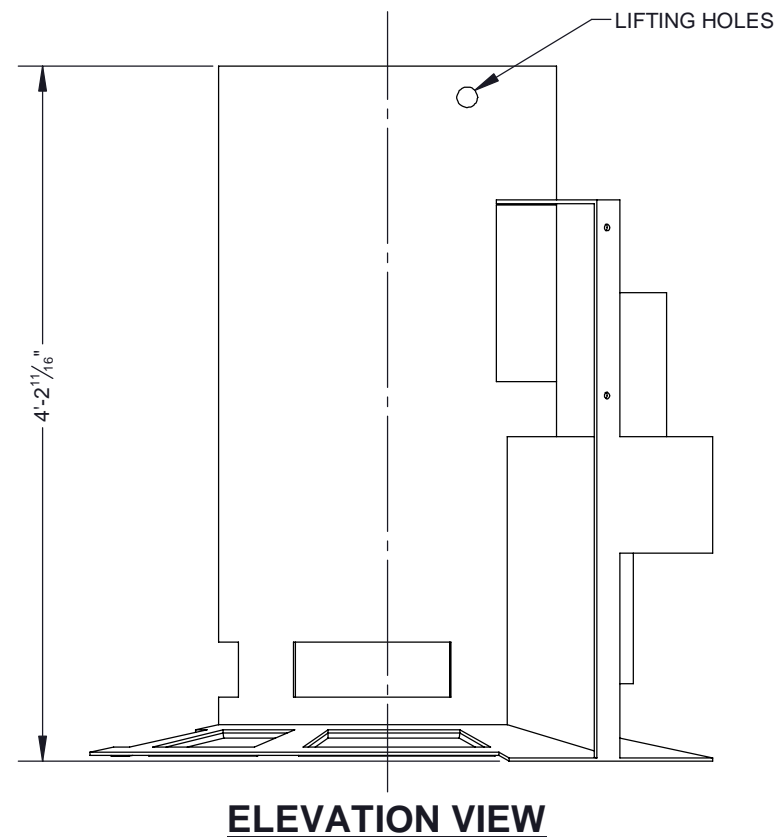
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**Contact**

800 626 4653  
ejco.com



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



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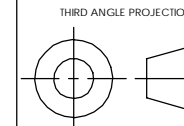
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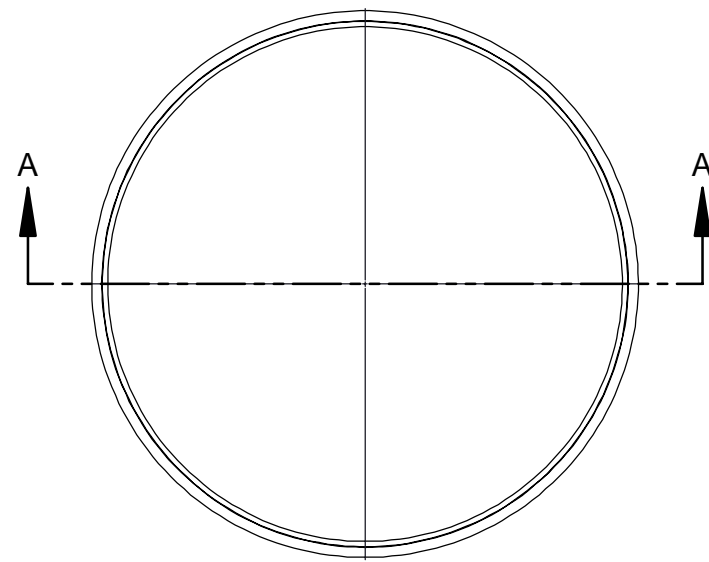
REFERENCE DETAIL  
INTERNALS CS-4  
CASCADE SEPARATOR



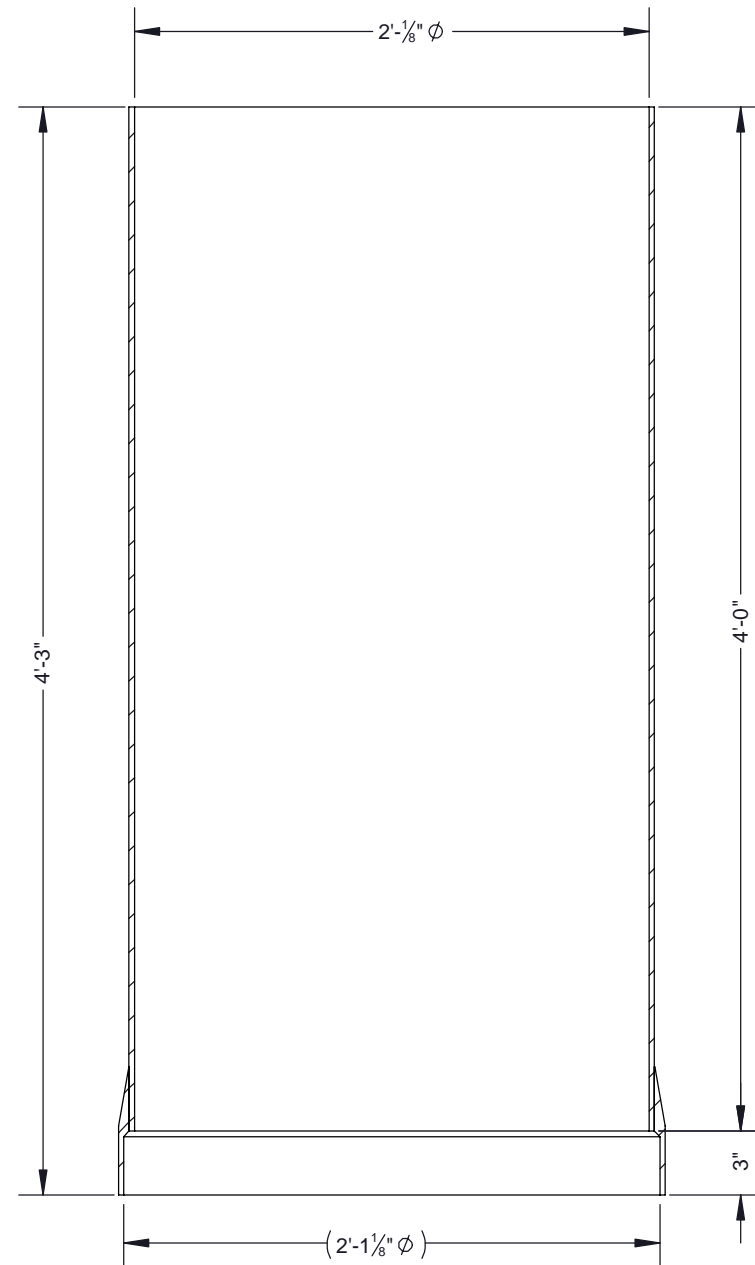
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES

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

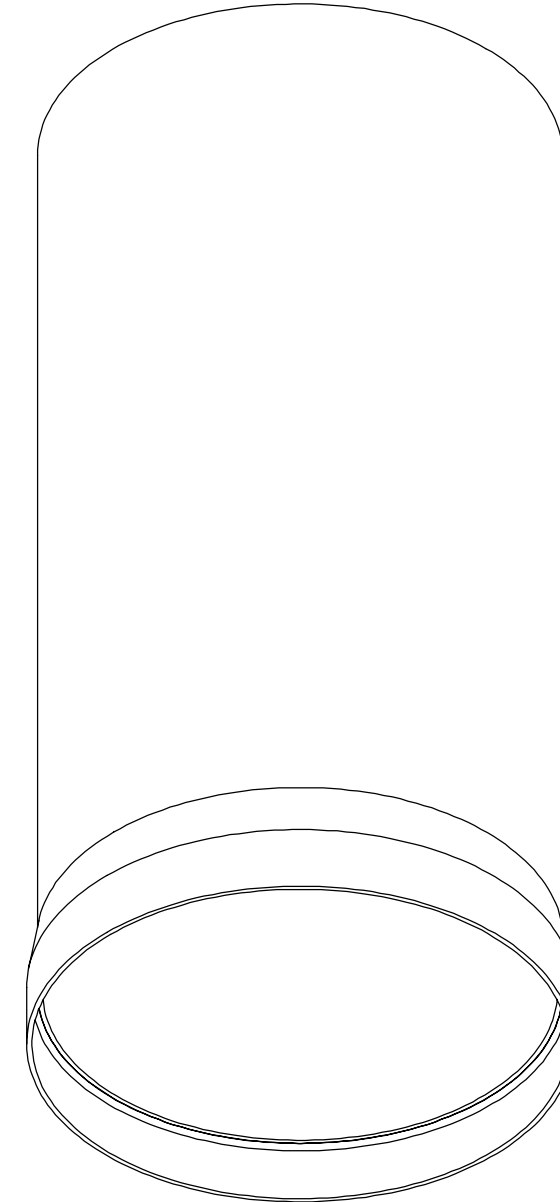
PART NUMBER: 325-003949		
APPROVED BY: M. BROOKS	DRAWN BY: M. BROOKS	
APPROVED BY DATE: 2021.10.21	DRAWN BY DATE: 2021.09.14	REV: B
SCALE: N/A	SHEET 1 OF 1	



**PLAN VIEW**



**SECTION A-A**



**ISOMETRIC VIEW**

NOTES:

1. SEE SITE SPECIFIC DRAWINGS FOR REQUIRED CYLINDER EXTENSION HEIGHT
2. SEE CYLINDER EXTENSION INSTALLATION GUIDE FOR ADDITIONAL INFORMATION

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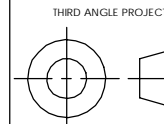
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REFERENCE DETAIL  
4 FT CYLINDER EXTENSION CS-4  
CASCADE SEPARATOR



THIRD ANGLE PROJECTION  
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES

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

PART NUMBER: <b>325-003960</b>	
APPROVED BY: M. BROOKS	DRAWN BY: J. BELL
APPROVED BY DATE: 2022.02.14	DRAWN BY DATE: 2022.02.10
SCALE: N/A	REV: A
SHEET 1 OF 1	