

GENERAL INFO

HYDROCARBON EXTRACTION BOOTH IS MADE OF 18 GAUGE SHEET METAL AND IS NOT FIRE-RATED. THE SHEET METAL WALLS AND CEILING ASSEMBLIES ARE CONSTRUCTED TO MEET NFPA 33, SECTION 5.3.2. THIS BOOTH IS FOR INDOOR INSTALLATION ONLY ("ROOM WITHIN STRUCTURE"). "STRUCTURE" SHALL BE CONSTRUCTED PER NFPA 58 SECTION 10.3 REQUIREMENTS. PER NFPA 33, SECTION 5.5, THE BOOTH SHOULD BE INSTALLED AT LEAST 3 FEET FROM OTHER WORK STATIONS; THE BOOTH COULD BE ASSEMBLED WITHIN LIMITS IF A WALL, PARTITION, OR OUTER WALL AND MUST HAVE A 1 HR FIRE RESISTANCE RATING AS REQUIRED BY. BOOTHS CONNECTED TOGETHER ARE NOT CONSIDERED AS OTHER WORK AREAS.

VENTILATION

THIS BOOTH INCLUDES A SINGLE SPARK RESISTANT, EXPLOSION PROOF EXHAUST FAN AND IS PROVIDED WITH AN IDENTIFICATION PLATE THAT NOTES "BASE AIR FLOWRATE = 600 CFM" AND "PURGE AIR FLOWRATE = 2,000 CFM" PER 2016 CALIFORNIA MECHANICAL CODE SECTION 503.2 REQUIREMENTS. THE EXHAUST FAN OPERATION IS INTERLOCKED TO OPERATE AT A BASEFLOW RATE OF 600 CFM WHEN LIGHTING AND OTHER COMPONENTS ARE BEING USED PER NFPA 1.386.3.2.4. WHEN 10%LEL IS DETECTED THROUGH THE HYDROCARBON MONITORING SYSTEM, THE EXHAUST FAN RAMP UP TO THE PURGE FLOWRATE OF 2,000CFM UNTIL MONITORING LEVEL RETURNS TO 0%.

THE EXHAUST FAN SPEED IS CONTROLLED BY A VARIABLE FREQUENCY DRIVE (VFD). THE PROVIDED VFD IS PROGRAMMED TO OPERATE AT 30 HZ FOR THE BASE AIR FLOWRATE OF 600 CFM AND 60 HZ FOR THE PURGE AIR FLOWRATE OF 2,000 CFM. OWNER MAY BE REQUIRED TO BALANCE SYSTEM IN FIELD BASED ON CONNECTED DUCTING SYSTEMS.

ALL DUCTWORK PROVIDED WITH THE BOOTH IS GALVANIZED STEEL PER NFPA 33.7.8.

HYDROCARBON MONITORING SYSTEM

THE BOOTH IS PROVIDED WITH AN EXPLOSION PROOF GENERAL PURPOSE MONITOR THAT MONITORS HYDROCARBON LOWER EXPLOSIVE LIMIT (LEL). WHEN 10%LEL IS DETECTED THE VISUAL ALARM AND PURGE VENTILATION IS ENABLED UNTIL MONITORING LEVEL RETURNS TO 0%. WHEN 25%LEL IS DETECTED THE AUDIBLE ALARM IS ENABLED (WHILE VISUAL ALARM AND PURGE VENTILATION REMAINS ENABLED) UNTIL MONITORING LEVEL RETURNS TO 0%. THE MONITOR, VISUAL ALARM AND AUDIBLE ALARM ARE INSTALLED INSIDE OF THE BOOTH. THE BOOTH INCLUDES AN INTERLOCK THAT IS WIRED TO THE AUDIBLE HORN TO ALARM. DEACTIVATION OF THE HEATING SYSTEM (OWNER TO COORDINATE) AND ACTIVATE THE PURGE EXHAUST VENTILATION, UPON FAILURE OF THE GAS DETECTION SYSTEM PER 2016 CALIFORNIA FIRE CODE SECTION 3805.1.4.

ADDITIONAL NOTES

VERIFY ALL ADDITIONAL REQUIREMENTS WITH THE AUTHORITY HAVING JURISDICTION (AHJ).

ANY ELECTRICAL, PLUMBING, OR OTHER PENETRATIONS INTO BOOTH MUST BE SEALED WITH FIRE STOPPING PER NFPA 91, SECTION 4.2.13.

OWNER SHALL HIRE A PROFESSIONAL MECHANICAL ENGINEER TO DESIGN, SPECIFY AND SIZE THE ADDITIONAL MECHANICAL DUCTWORK AND SYSTEMS; AND AUTOMATIC FIRE PROTECTION SYSTEMS AS REQUIRED PER NFPA 1, SECTION 38.6.2.6.

THE OWNER SHALL HIRE A LICENSED MECHANICAL CONTRACTOR WITH CURRENT C-10 LICENSE ISSUED BE THE CALIFORNIA STATE LICENSE BOARD TO INSTALL THE MECHANICAL DEVICES.

THE OWNER SHALL HIRE A CONTRACTOR WITH CURRENT C-16 LICENSE ISSUED BY THE CALIFORNIA STATE LICENSE BOARD TO INSTALL THE FIRE PROTECTION SYSTEMS.

OWNER SHALL PROVIDE MAKE UP AIR AND EXHAUST DUCTING TO/FROM OUTSIDE THE BUILDING PER NFPA 33 SECTIONS 7.3, 7.4, 7.5, 7.6, 7.7, AND 7.8

OWNER SHALL PROVIDE MEANS OF DISSIPATING STATIC CHARGE ACCUMULATION PER NFPA 1, SECTION 60.5.1.10.2.

C1D1 LABS WILL PROVIDE AN AIRFLOW SWITCH THAT IS WIRED TO THE AUDIBLE HORN TO ALARM UPON FAILURE OF THE VENTILATION SYSTEM. AIR FLOW SWITCH NEEDS TO BE INSTALLED IN THE EXHAUST VENTILATION BY OWNER, PER THE MANUFACTURER'S INSTRUCTIONS.

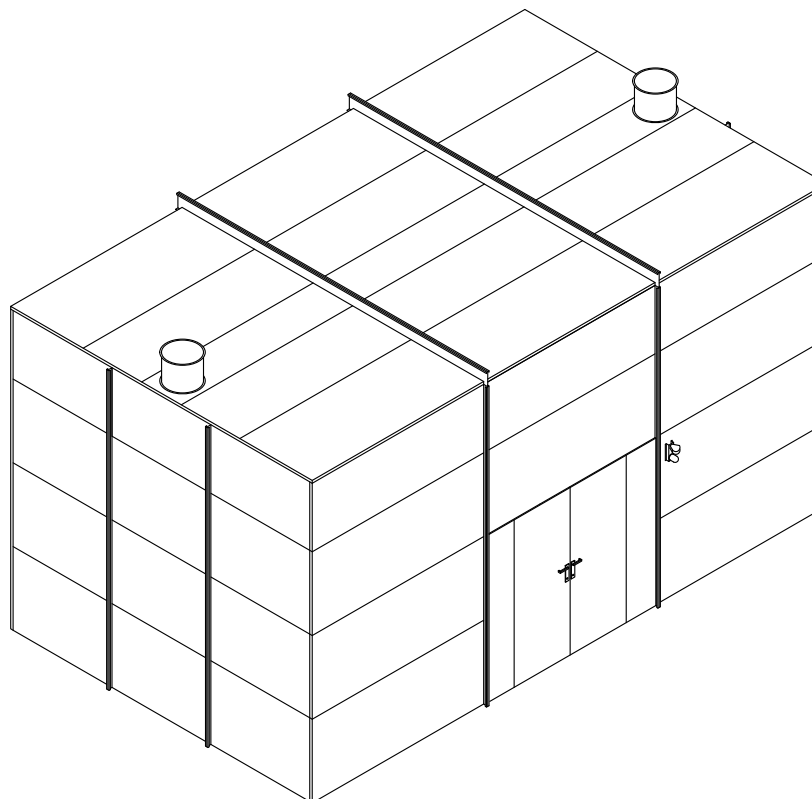
2016 CFC, 5803.1.3: COMPRESSED GAS SYSTEMS CONVEYING FLAMMABLE GASES SHALL BE PROVIDED WITH APPROVED MANUAL OR AUTOMATIC EMERGENCY SHUTOFF VALVES THAT CAN BE ACTIVATED AT EACHPOINT OF USE AND AT EACH SOURCE

EQUIPMENT LIST

QUANTITY	ITEM	DESCRIPTION
1	CONTROL PANEL	UL-LISTED, UL508A, (2) 1 TO 3 PHASE VARIABLE SPEED DRIVES, MICRO PLC
3	CONTROL SETTINGS	OFF, FAN ON, FAN AND LIGHTS ON
1	LIGHT ALARM	AMBER, CLASS 1, DIV. 2 RATED
1	SOUND ALARM	24V DC, 109 DB AT 1M
3	LED LIGHT	CLASS 1 - DIV 1 - T6 EXPLOSION PROOF LED
1	GAS DETECTOR	RKI M2A GAS DETECTOR
1	EMERGENCY STOP	CLASS 1 DIV 1 3 POSITION SWITCH
1	EXHAUST FAN	18H1849 SPR WITH VFD RATED (2 SPEED CONTROL)
1	INTAKE FAN	18H1849 SPR WITH VFD RATED (2 SPEED CONTROL)
1	AIR FLOW SHUT OFF SWITCH	

ALARM SET POINTS

AT 10% LEL AMBER LIGHT ALARM WILL START AND PURGE AIR FLOW RATE WILL RUN AT 2000 CFM
AT 25% LEL AMBER LIGHT ALARM, PURGE AIR FLOW RATE RUNS AT 2000 CFM, AND SOUND ALARM WILL START

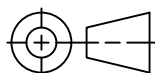


NOTES:

PANELS HAVE SMOOTH SURFACE
FACING IN UNLESS OTHERWISE NOTED

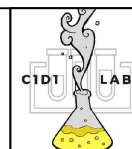
UNLESS OTHERWISE
SPECIFIED DIMENSIONS
ARE IN INCHES (IN)
TOLERANCE: $\pm 1/8"$

THIRD ANGLE PROJECTION



SHEET TITLE:

EXTRACTION BOOTH



C1D1 LABS

DRAWING TITLE:

EXB151426

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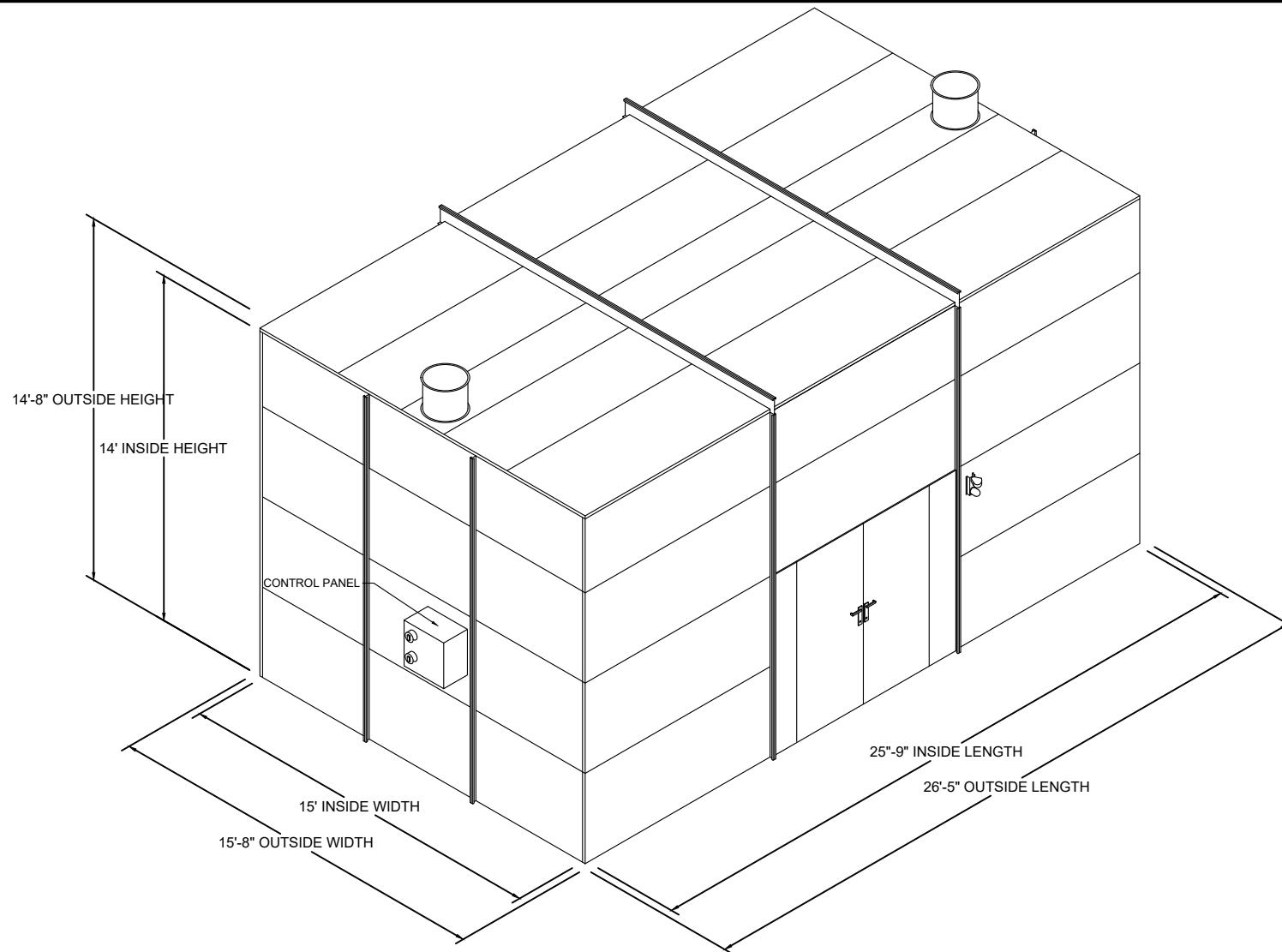
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DATE:

14-Feb-19

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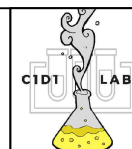


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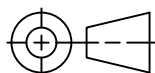
FRONT RIGHT VIEW



C1D1 LABS

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THIRD ANGLE PROJECTION



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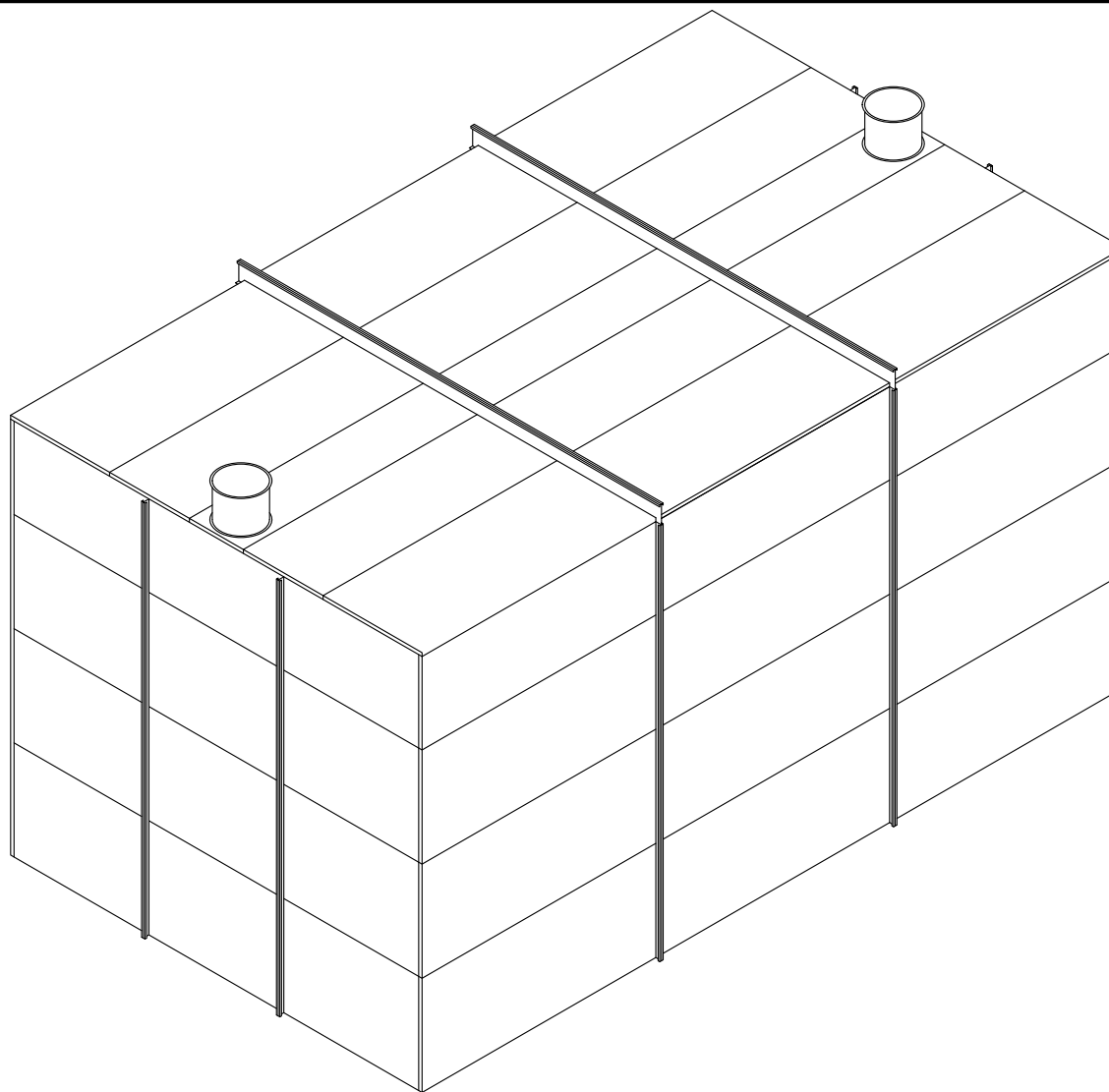
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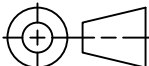
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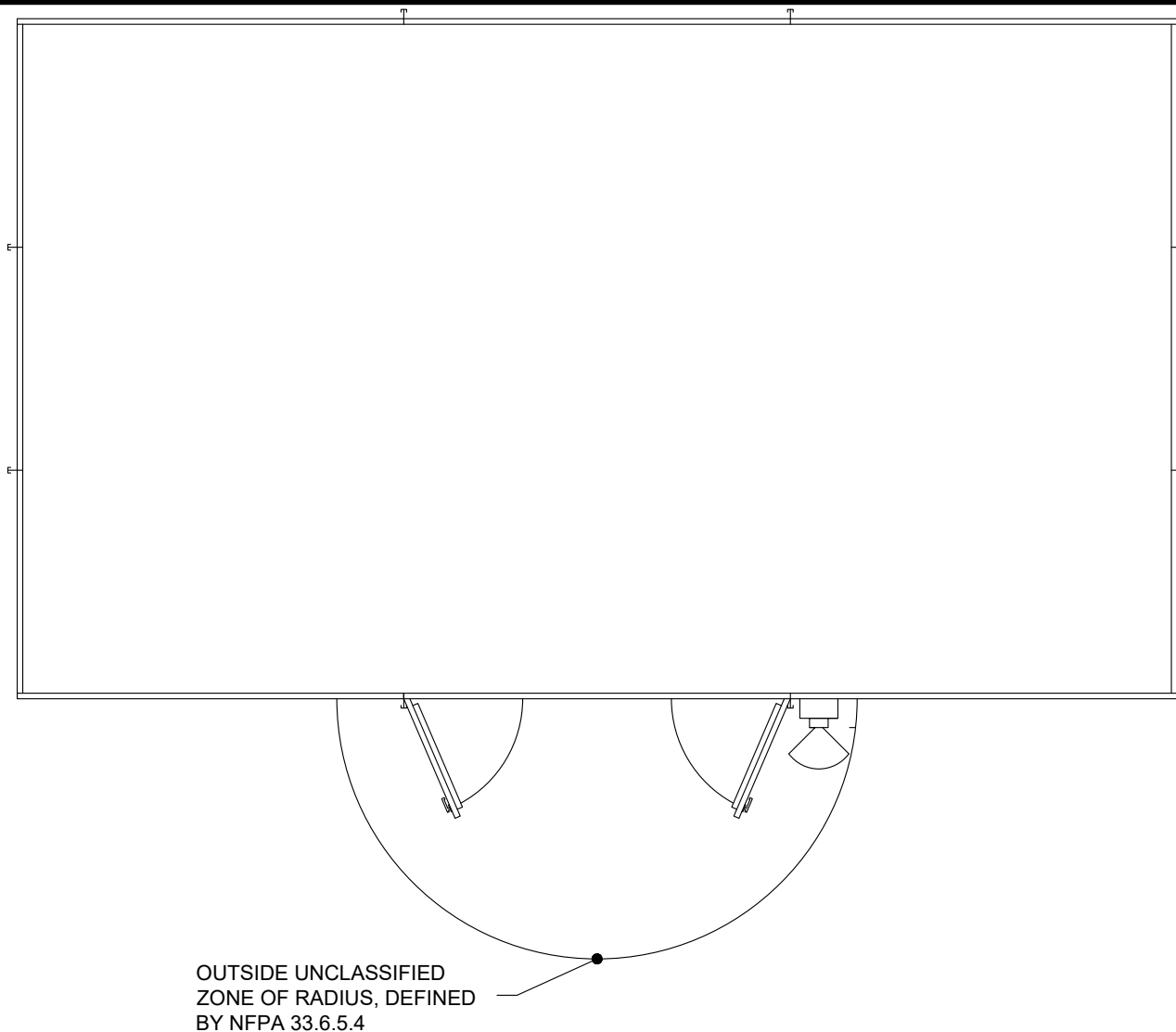
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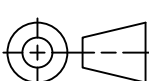



NOTES:
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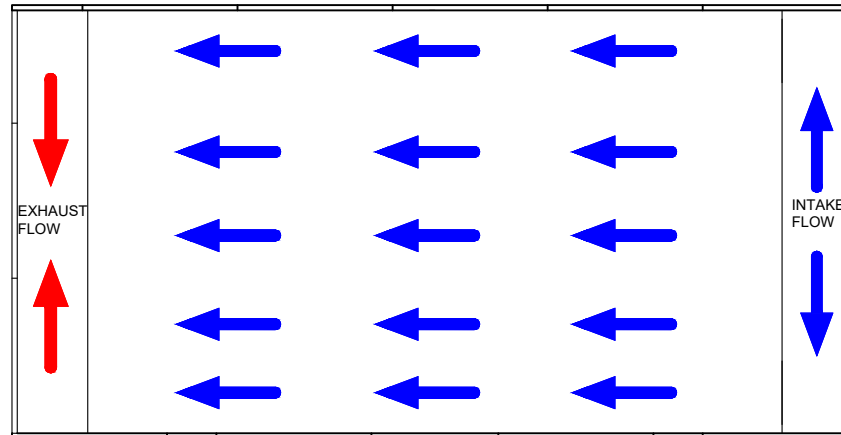
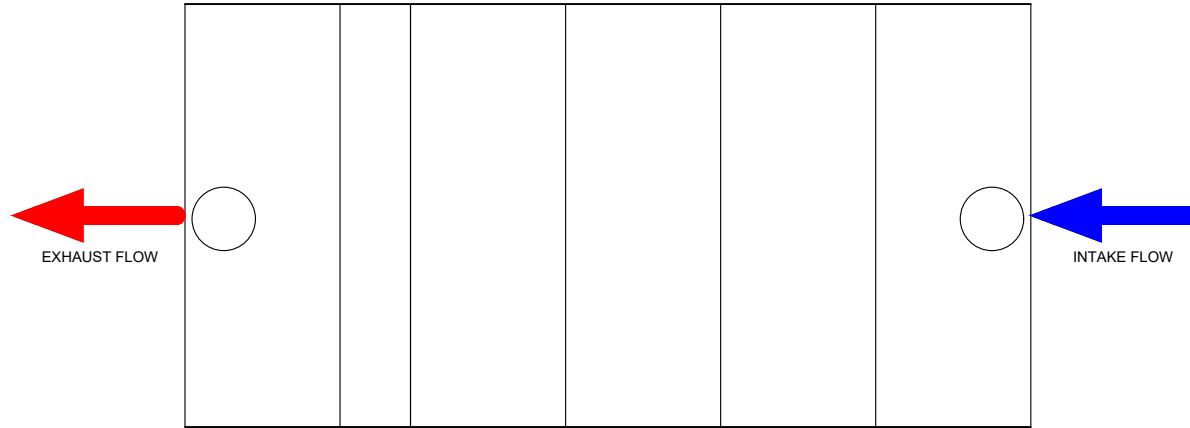
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (IN) TOLERANCE: ± 1/8"		THIRD ANGLE PROJECTION 		SHEET TITLE: FLOOR PLAN			C1D1 LABS		
				DRAWING TITLE: EXB151426		THIS DOCUMENT AND THE INFORMATION IT DISCLOSES IS THE EXCLUSIVE PROPERTY OF C1D1 LABS. ANY REPRODUCTION OR USE OF THIS DRAWING, IN PART OR IN WHOLE, WITHOUT THE EXPRESS CONSENT OF THE PROPRIETOR ARE PROHIBITED.			
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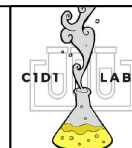
TOP VIEW



SECTION A-A

SHEET TITLE:

BOOTH AIR FLOW DIAGRAM



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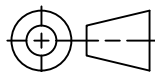
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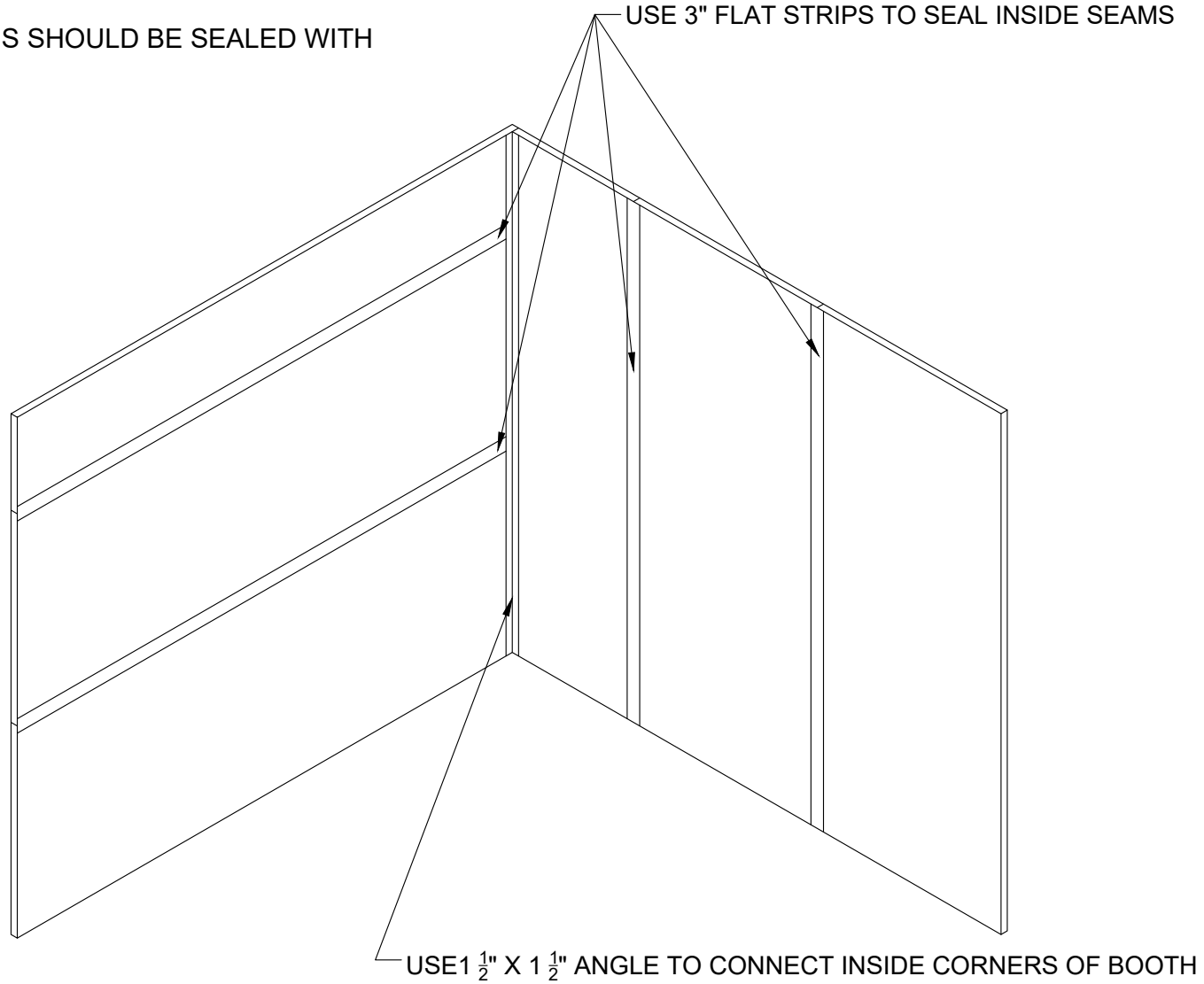
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (IN)
TOLERANCE: $\pm 1/8"$

THIRD ANGLE PROJECTION



NOTE: ALL SEAMS SHOULD BE SEALED WITH FIRE CAULKING.

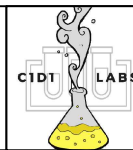


NOTES:

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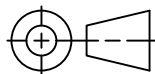
INSIDE BOOTH INSALLATION



C1D1 LABS

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ARE IN INCHES (IN)
TOLERANCE: $\pm 1/8"$

THIRD ANGLE PROJECTION



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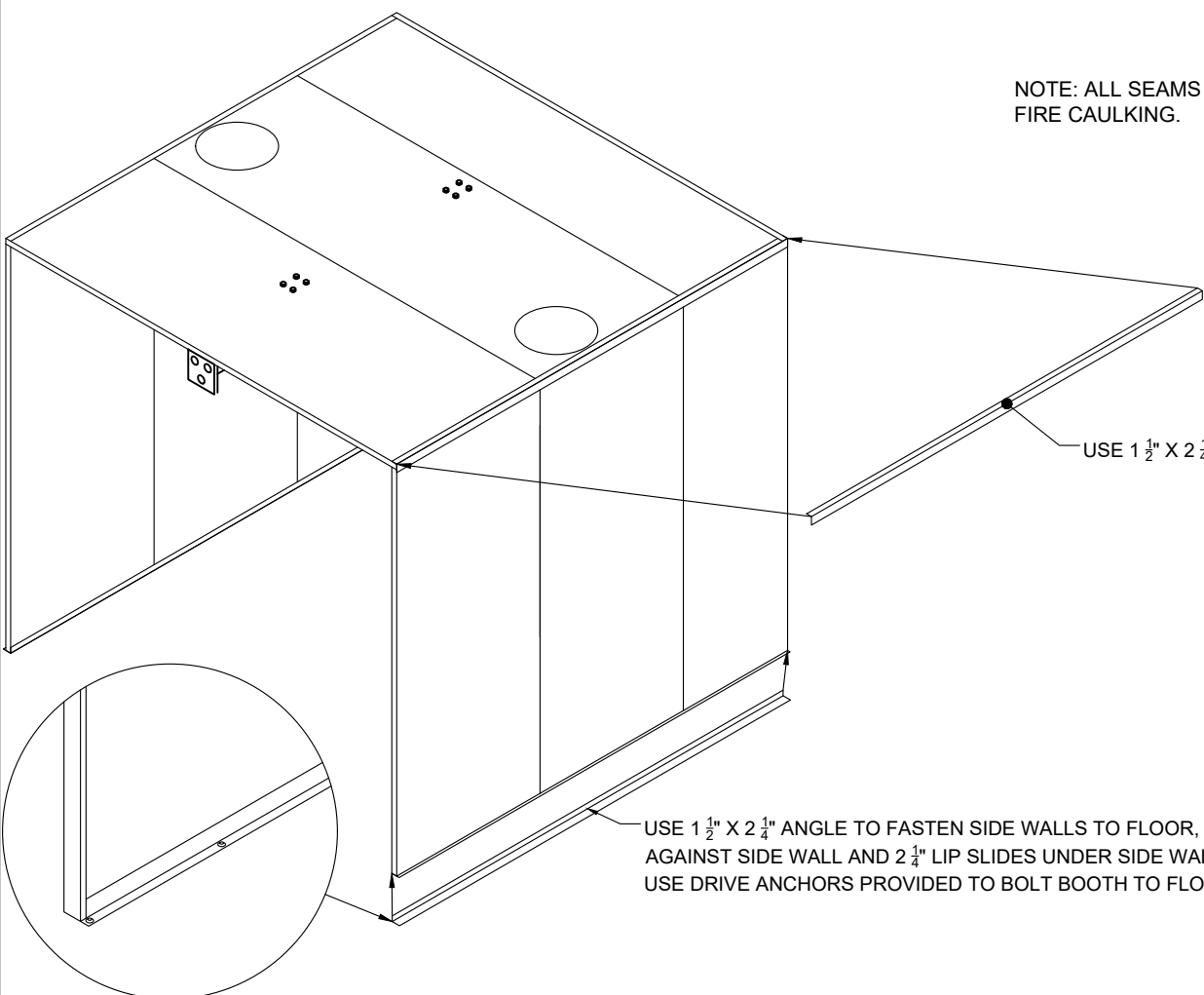
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NOTE: ALL SEAMS SHOULD BE SEALED WITH FIRE CAULKING.

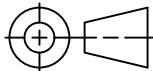
USE 1 1/2" X 2 1/4" ANGLE FOR CEILING TO SIDE WALL CONNECTION AND TO SEAL SEAMS

USE 1 1/2" X 2 1/4" ANGLE TO FASTEN SIDE WALLS TO FLOOR, 1 1/2" LIP GOES INSIDE BOOTH AGAINST SIDE WALL AND 2 1/4" LIP SLIDES UNDER SIDE WALL TO OUTSIDE OF BOOTH, USE DRIVE ANCHORS PROVIDED TO BOLT BOOTH TO FLOOR OR 2 1/4" LIP.

NOTES:
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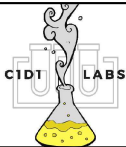
UNLESS OTHERWISE
SPECIFIED DIMENSIONS
ARE IN INCHES (IN)
TOLERANCE: ± 1/8"

THIRD ANGLE PROJECTION



SHEET TITLE:

OUTSIDE BOOTH INSTALL



C1D1 LABS

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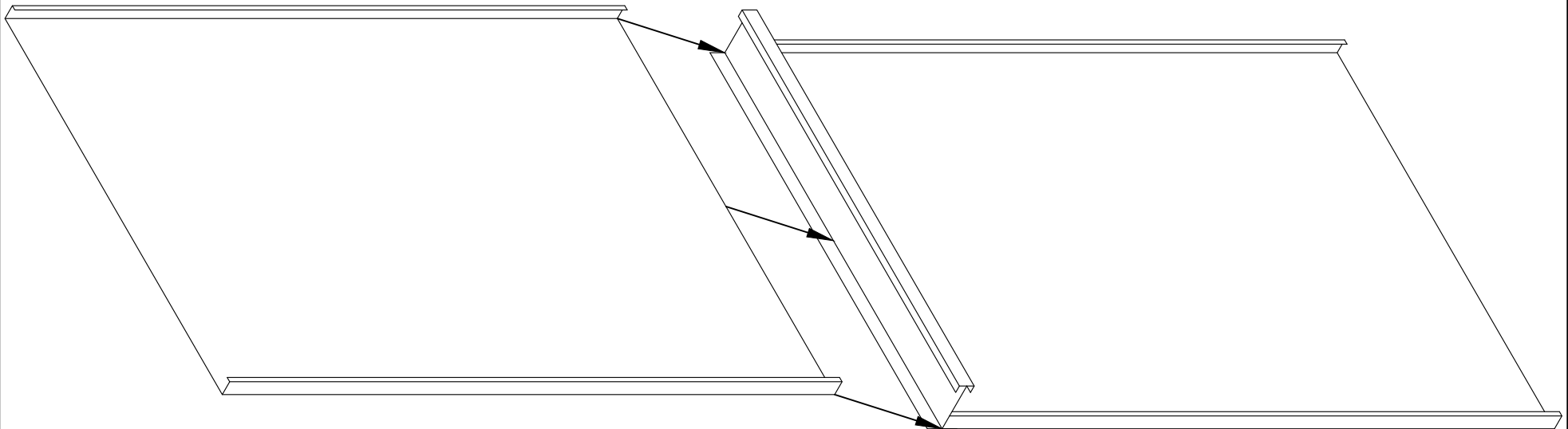
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14-Feb-19

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*INSTALL BEAMS BEFORE INSTALLING CEILING PANELS
 *FASTEN BOTTOM LIP OF BEAM TO PANEL FROM INSIDE BOOTH

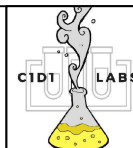


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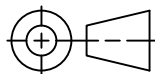
BEAM INSTALLATION DETAIL



C1D1 LABS

UNLESS OTHERWISE
 SPECIFIED DIMENSIONS
 ARE IN INCHES (IN)
 TOLERANCE: $\pm 1/8$ "

THIRD ANGLE PROJECTION



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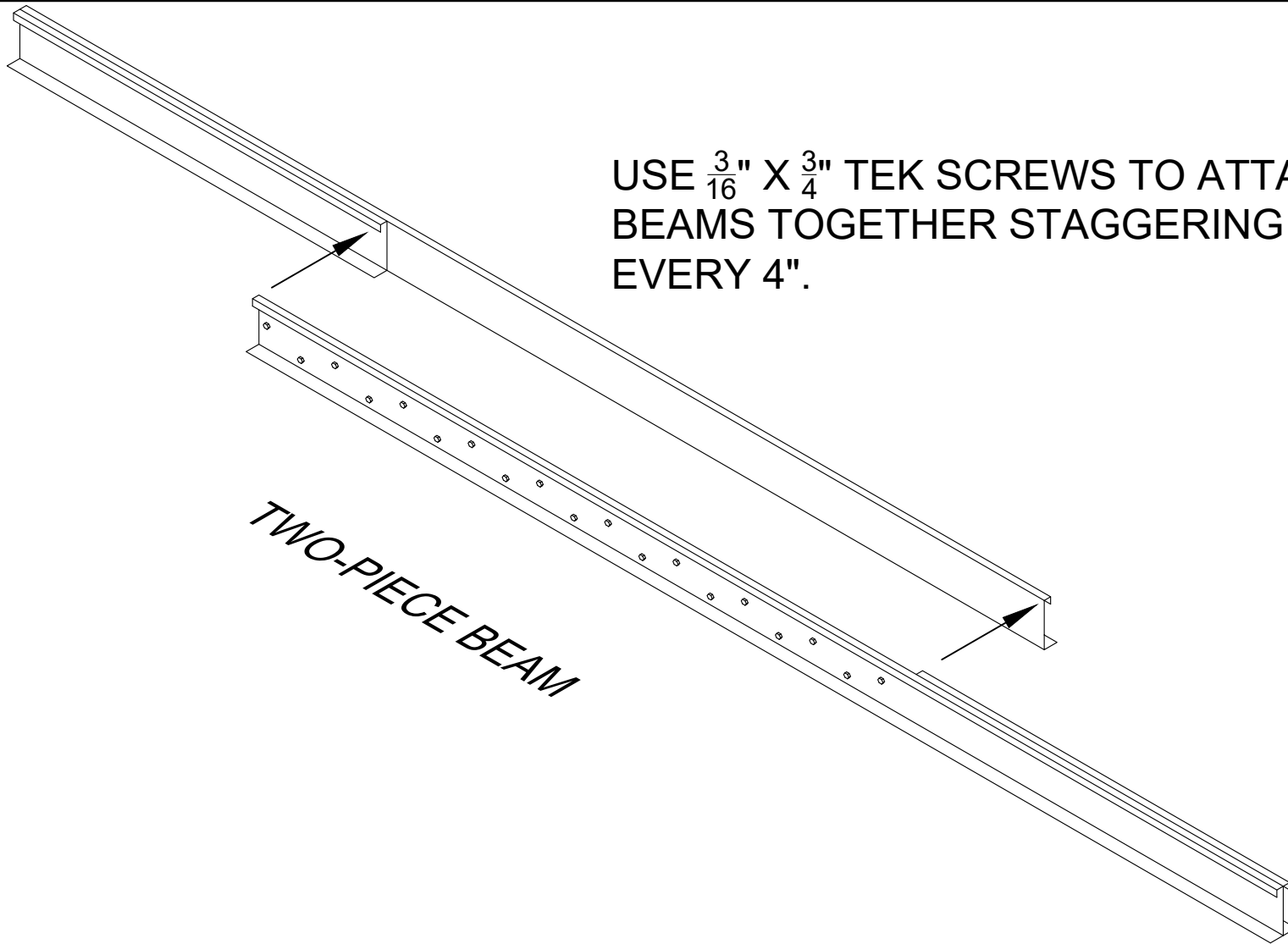
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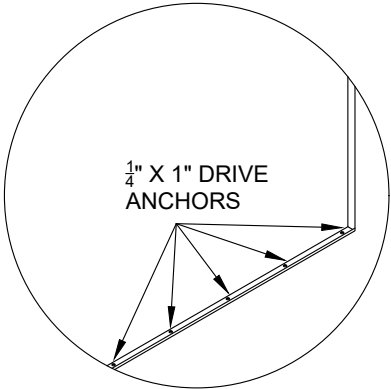
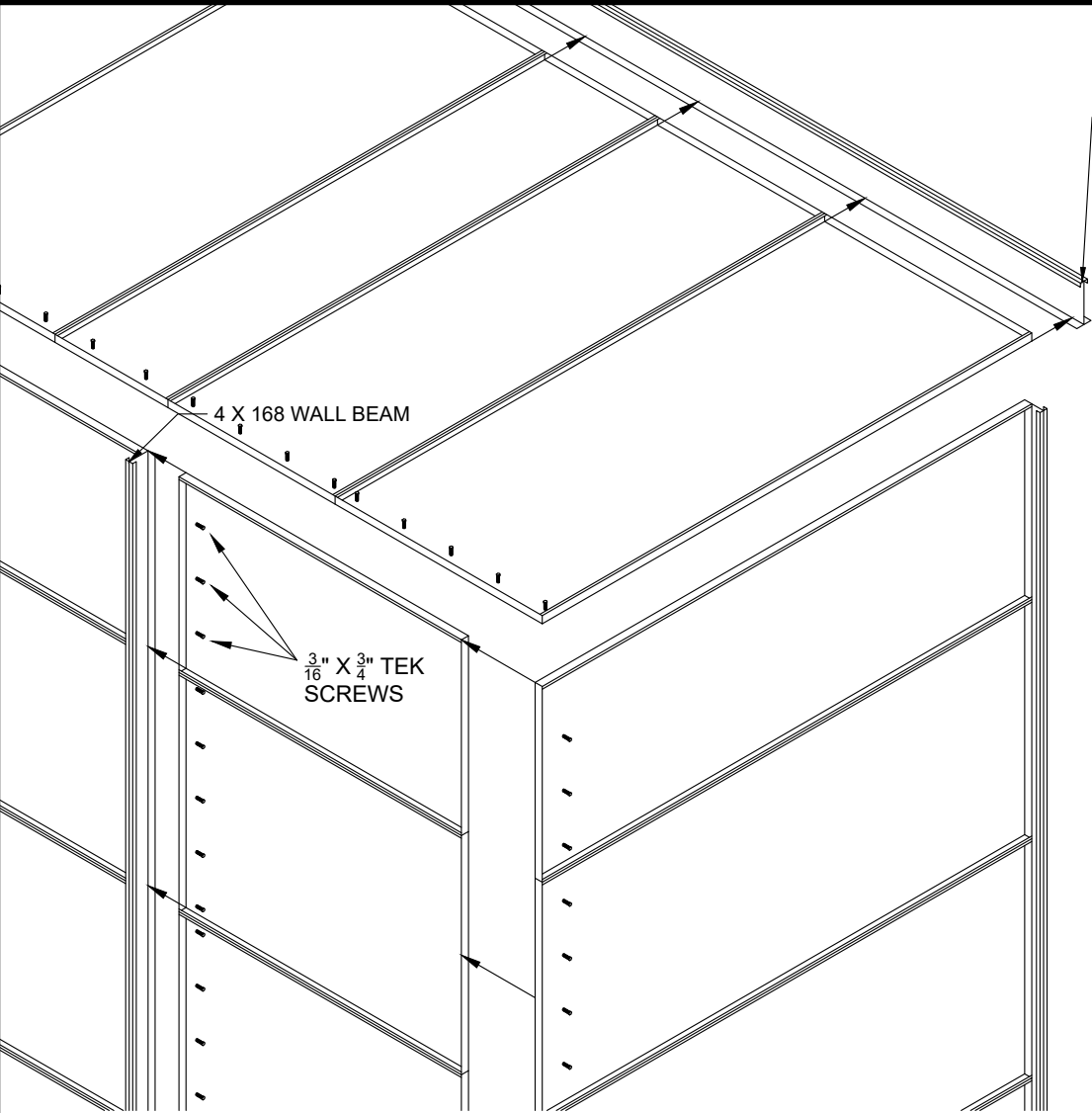
USE $\frac{3}{16}$ " X $\frac{3}{4}$ " TEK SCREWS TO ATTACH
BEAMS TOGETHER STAGGERING
EVERY 4".

TWO-PIECE BEAM

NOTES:

PANELS HAVE SMOOTH SURFACE
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FACING IN UNLESS OTHERWISE NOTED		SHEET TITLE: BEAM ASSEMBLY				C1D1 LABS	
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SIDE WALLS FIT INSIDE OF FRONT AND BACK WALL WITH THE CEILING COVERING ENTIRE LENGTH OF BOOTH FROM FRONT TO BACK.

USE $\frac{3}{16}$ " X $\frac{3}{4}$ " TEK SCREWS EVERY 10" TO ATTACH PANELS TOGETHER.

USE $\frac{1}{4}$ " X 1" DRIVE ANCHORS EVERY 12" TO BOLT BOOTH TO FLOOR.

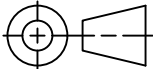
SLIDE PANELS INTO BEAM AND USE $\frac{3}{16}$ " X $\frac{3}{4}$ " TEK SCREWS TO ATTACH PANELS TO $1\frac{1}{2}$ " LIP OF BEAM.

****BOOTH IS NOT DESIGNED TO SUPPORT THE WEIGHT OF A PERSON ON CEILING**

NOTES:
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (IN)
TOLERANCE: $\pm 1/8$ "

THIRD ANGLE PROJECTION



SHEET TITLE:
SIDE WALL AND CEILING INSTALLATION



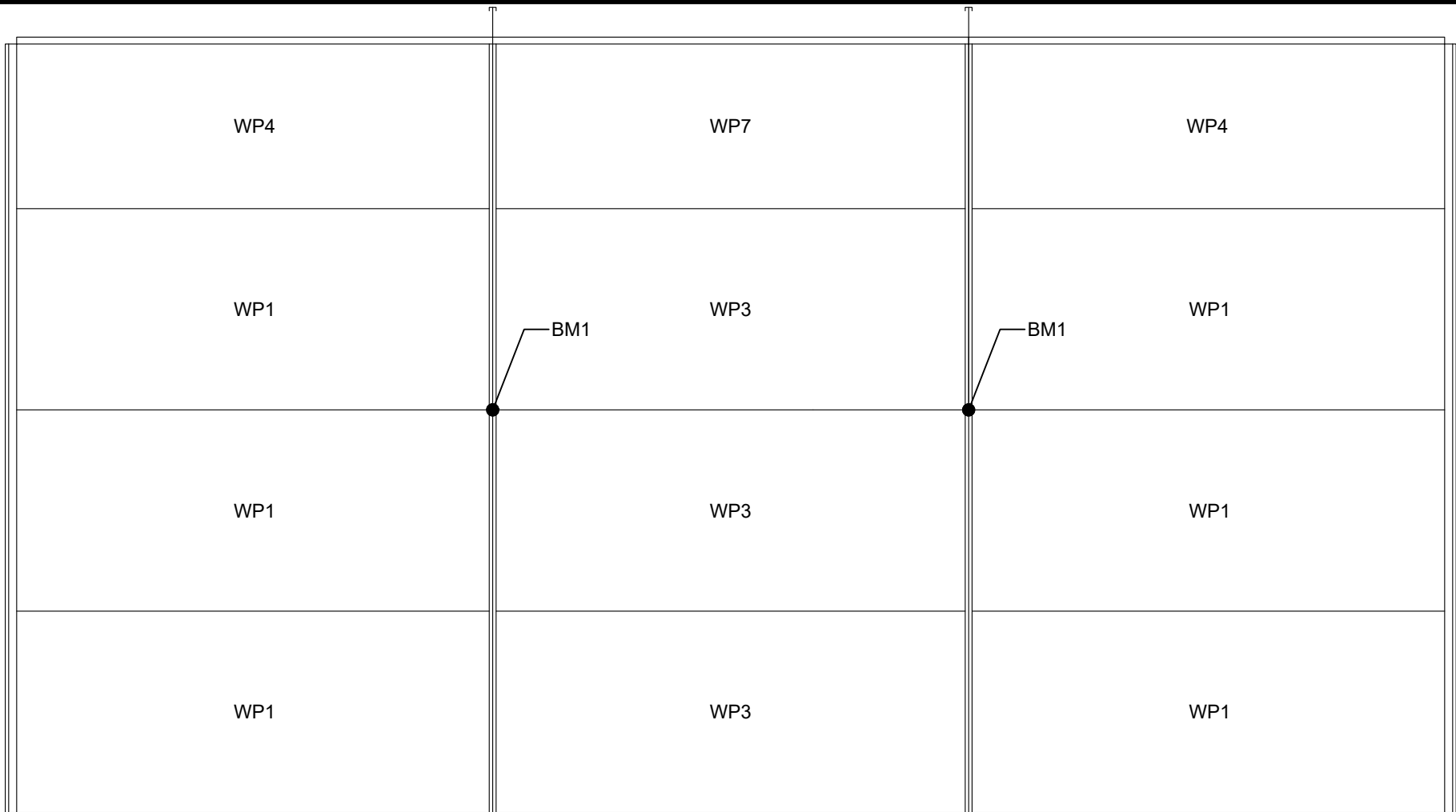
C1D1 LABS

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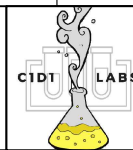
PANELS HAVE SMOOTH SURFACE
FACING IN UNLESS OTHERWISE NOTED

PARTS LIST

Count	PART_NUMBER	DESCRIPTION
2	BM1	4 X 168 WALL BEAM
6	WP1	44 X 107 WALL PANEL
3	WP3	44 X 98 WALL PANEL
2	WP4	36 X 107 WALL PANEL
1	WP7	36 X 98 WALL PANEL

SHEET TITLE:

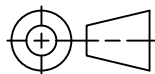
BACK WALL



C1D1 LABS

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TOLERANCE: $\pm 1/8"$

THIRD ANGLE PROJECTION



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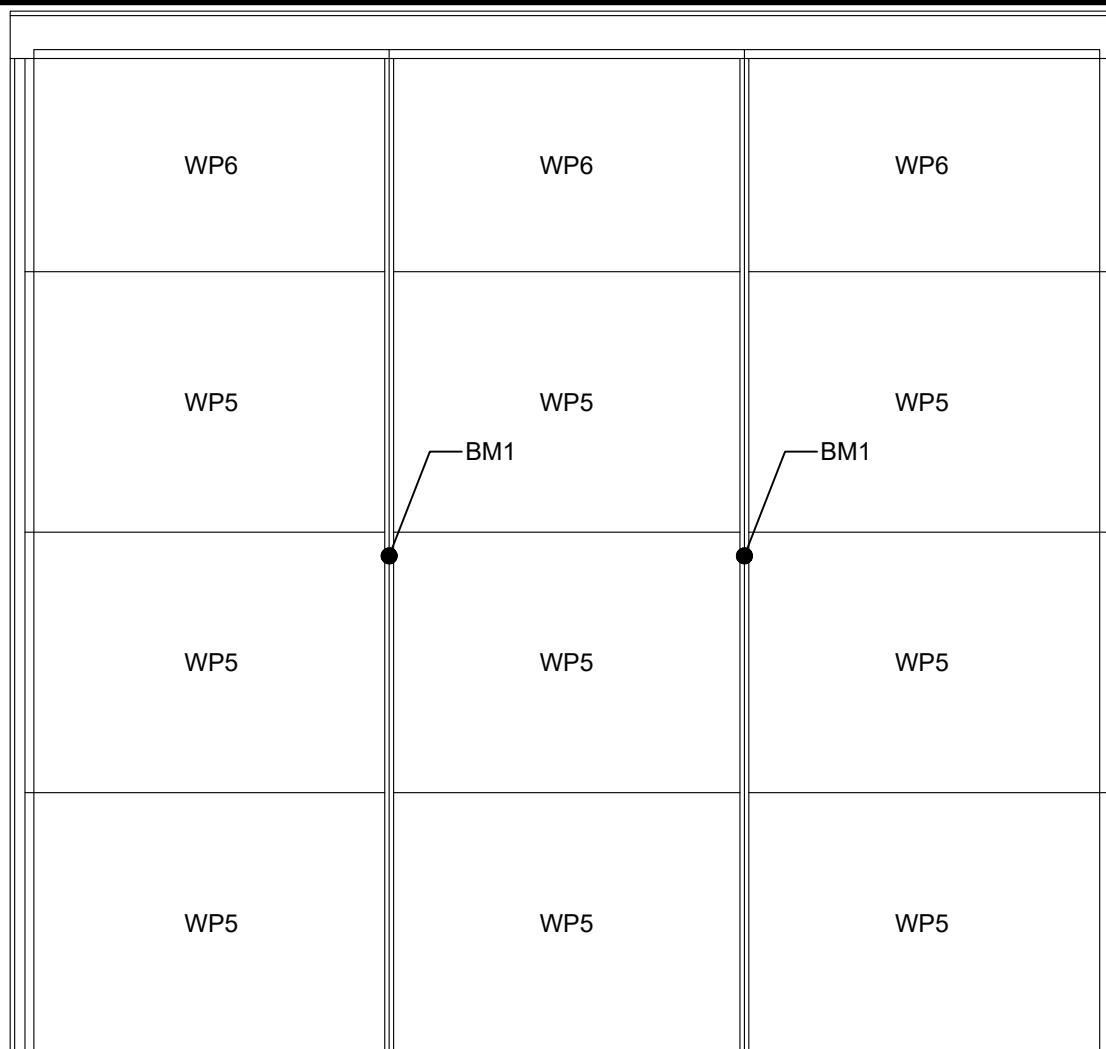
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DATE:

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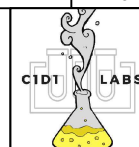
NOTES:

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FACING IN UNLESS OTHERWISE NOTED

PARTS LIST		
Count	PART_NUMBER	DESCRIPTION
2	BM1	4 X 168 WALL BEAM
9	WP5	44 X 60 WALL PANEL
3	WP6	36 X 60 WALL PANEL

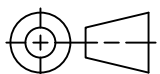
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LEFT SIDE WALL



C1D1 LABS

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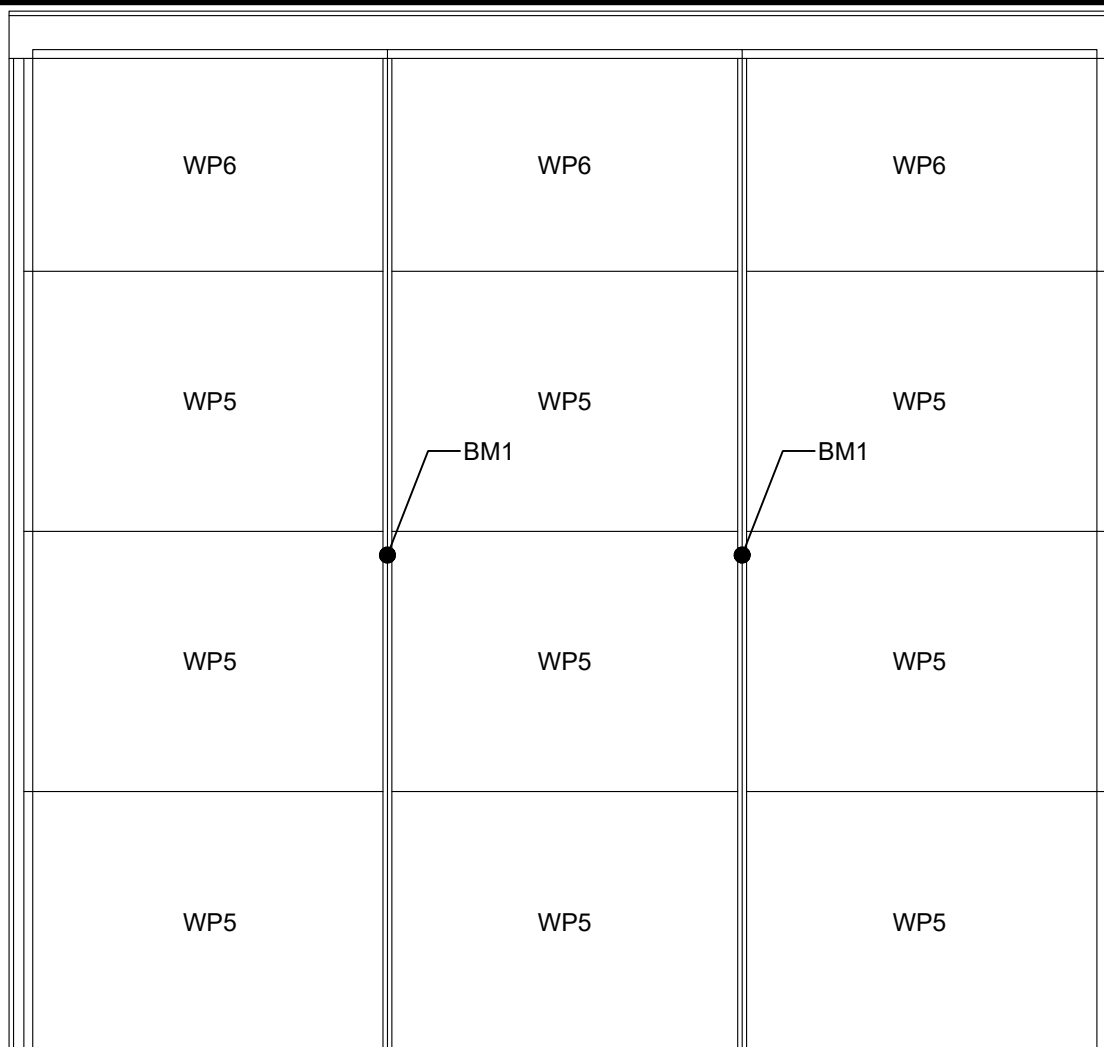
THIRD ANGLE PROJECTION


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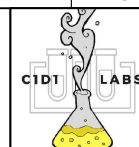
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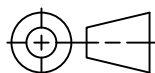
RIGHT SIDE WALL



C1D1 LABS

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TOLERANCE: $\pm 1/8"$

THIRD ANGLE PROJECTION



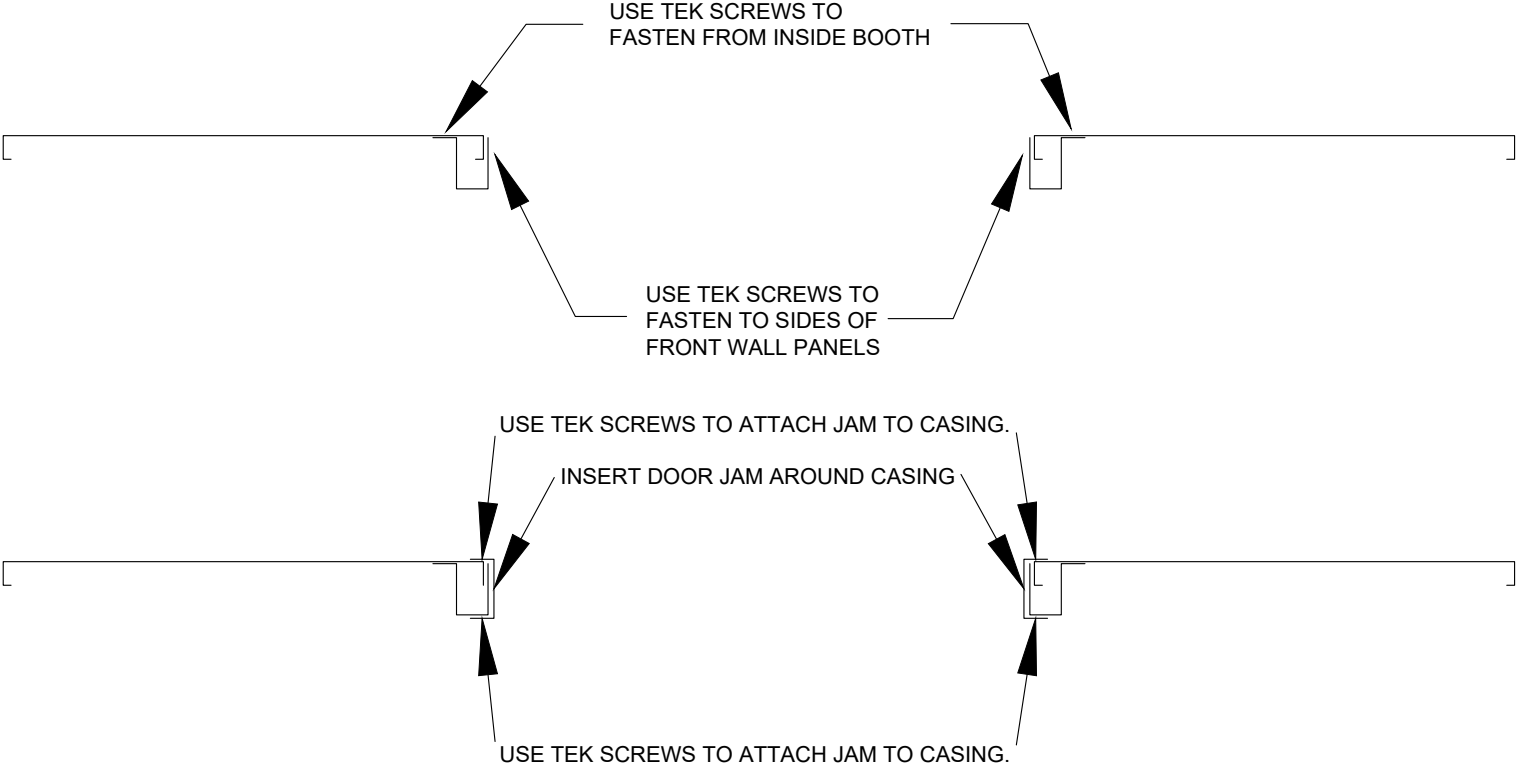
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EXB151426

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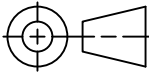
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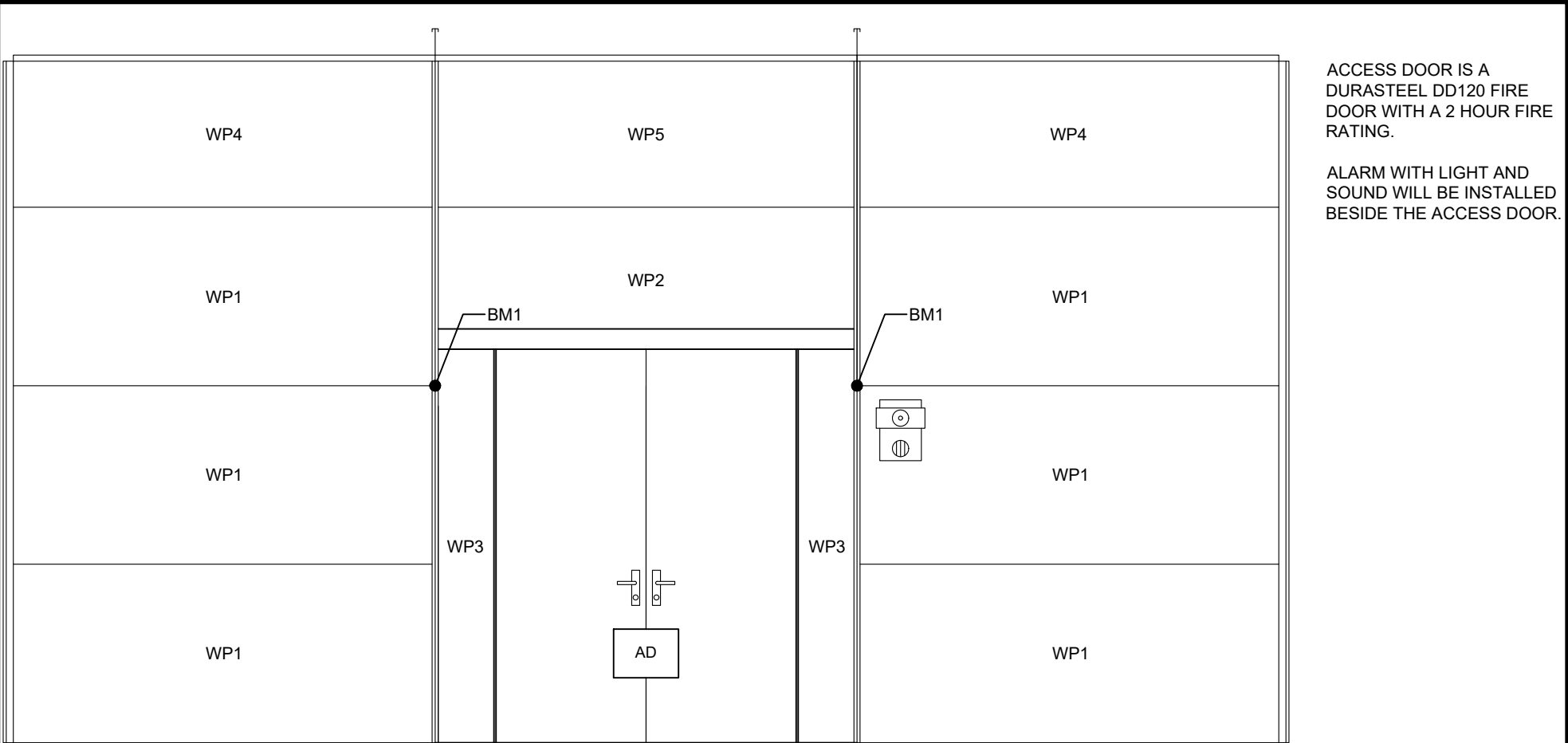
SCALE: N/A DATE: 14-Feb-19 SHEET: 13

FASTEN METAL CASING AROUND DOOR OPENING FROM INSIDE OF BOOTH AND SIDE OF FRONT WALL PANEL. THEN INSERT DOOR JAM AROUND CASING.



NOTES:
PANELS HAVE SMOOTH SURFACE
FACING IN UNLESS OTHERWISE NOTED

		SHEET TITLE: DOOR JAM AND CASING INSTALLATION			C1D1 LABS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (IN) TOLERANCE: ± 1/8"	THIRD ANGLE PROJECTION 	DRAWING TITLE: EXB151426			THIS DOCUMENT AND THE INFORMATION IT DISCLOSES IS THE EXCLUSIVE PROPERTY OF C1D1 LABS. ANY REPRODUCTION OR USE OF THIS DRAWING, IN PART OR IN WHOLE, WITHOUT THE EXPRESS CONSENT OF THE PROPRIETOR ARE PROHIBITED.	
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ACCESS DOOR IS A DURASTEEL DD120 FIRE DOOR WITH A 2 HOUR FIRE RATING.

ALARM WITH LIGHT AND SOUND WILL BE INSTALLED BESIDE THE ACCESS DOOR.

NOTES:
PANELS HAVE SMOOTH SURFACE FACING IN UNLESS OTHERWISE NOTED

PARTS LIST		
Count	PART_NUMBER	DESCRIPTION
1	AD	74 X 97 DOUBLE ACCESS DOOR W/ FRAME
2	BM1	4 X 168 WALL BEAM
6	WP1	44 X 107 WALL PANEL
1	WP2	35 X 98 WALL PANEL W/ HEADER FOR DOOR JAM
2	WP3	12 X 97 WALL PANEL
2	WP4	36 X 107 WALL PANEL
1	WP5	36 X 98 WALL PANEL

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (IN)
TOLERANCE: ± 1/8"

THIRD ANGLE PROJECTION

SHEET TITLE:

FRONT WALL

C1D1 LABS

DRAWING TITLE:

EXB151426

SHEET SIZE: A

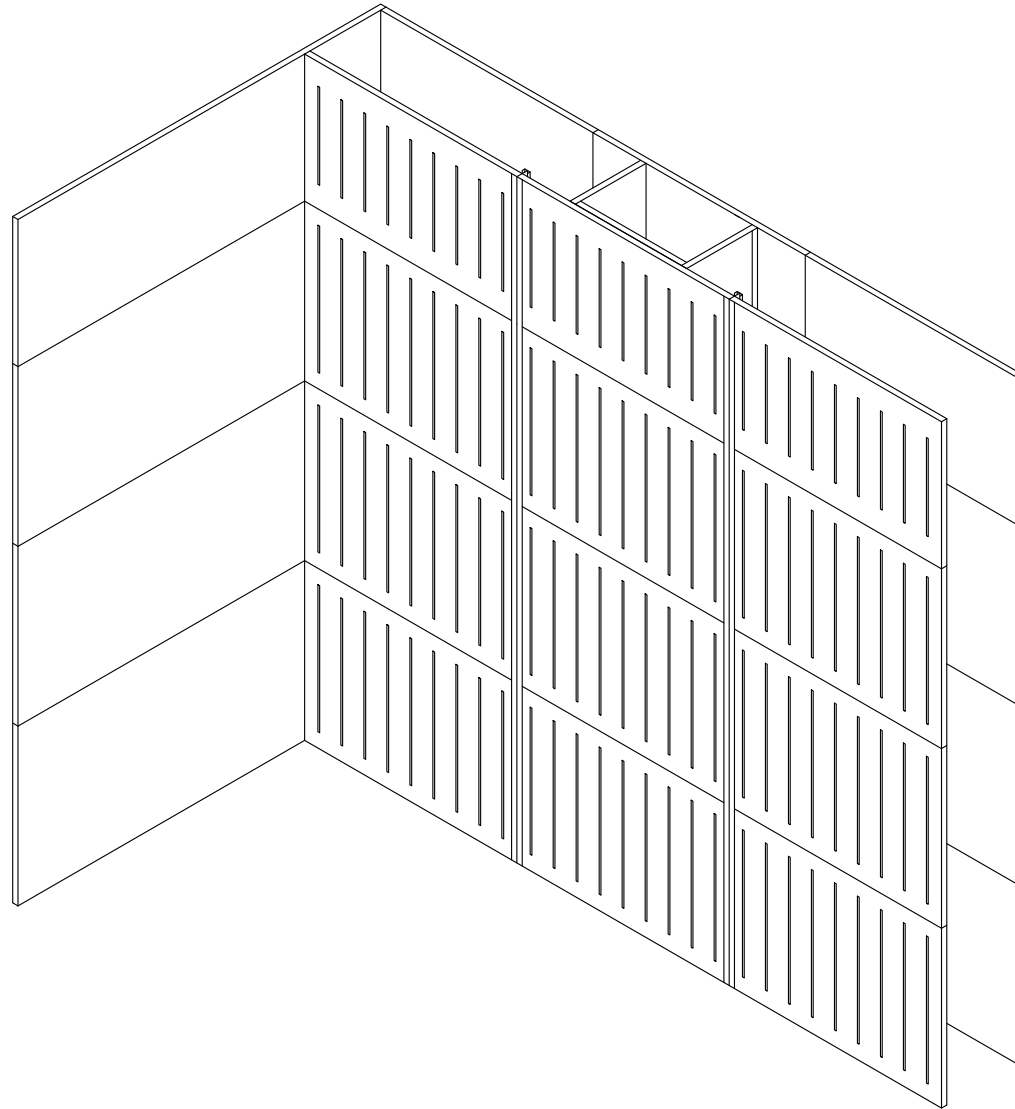
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DATE: 14-Feb-19

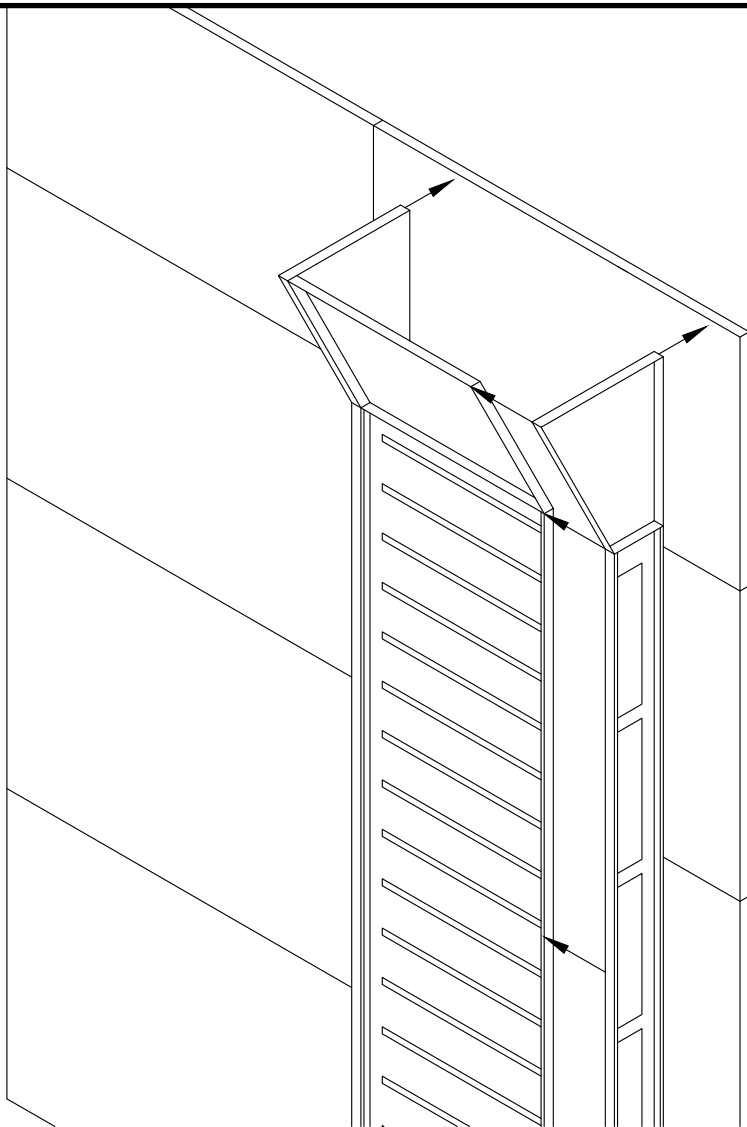
SHEET: 15



NOTES:

PANELS HAVE SMOOTH SURFACE
FACING IN UNLESS OTHERWISE NOTED

FACING IN UNLESS OTHERWISE NOTED		SHEET TITLE: FILTER WALL VIEW				C1D1 LABS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (IN) TOLERANCE: ± 1/8"	THIRD ANGLE PROJECTION 	DRAWING TITLE: EXB151426		THIS DOCUMENT AND THE INFORMATION IT DISCLOSES IS THE EXCLUSIVE PROPERTY OF C1D1 LABS. ANY REPRODUCTION OR USE OF THIS DRAWING, IN PART OR IN WHOLE, WITHOUT THE EXPRESS CONSENT OF THE PROPRIETOR ARE PROHIBITED.			
		SHEET SIZE: A	REVISION: 0	SCALE: N/A	DATE: 14-Feb-19	SHEET: 16	



INTAKE AND EXHAUST PLENUMS
ATTACH TO SIDE WALLS AND
TOP OF PLENUMS ARE FLUSH
WITH TOP OF SIDE WALLS.

USE $\frac{3}{16}$ " X $\frac{3}{4}$ " TEK SCREWS EVERY
10" TO ATTACH PANELS
TOGETHER.

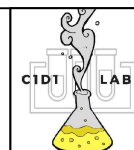
ATTACH INTAKE AND EXHAUST
PLENUMS TO SIDE WALLS BY
USING TEK SCREWS FROM
OUTSIDE OF BOOTH.

NOTES:

PANELS HAVE SMOOTH SURFACE
FACING IN UNLESS OTHERWISE NOTED

SHEET TITLE:

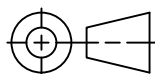
PLENUM INSTALL



C1D1 LABS

UNLESS OTHERWISE
SPECIFIED DIMENSIONS
ARE IN INCHES (IN)
TOLERANCE: $\pm 1/8$ "

THIRD ANGLE PROJECTION



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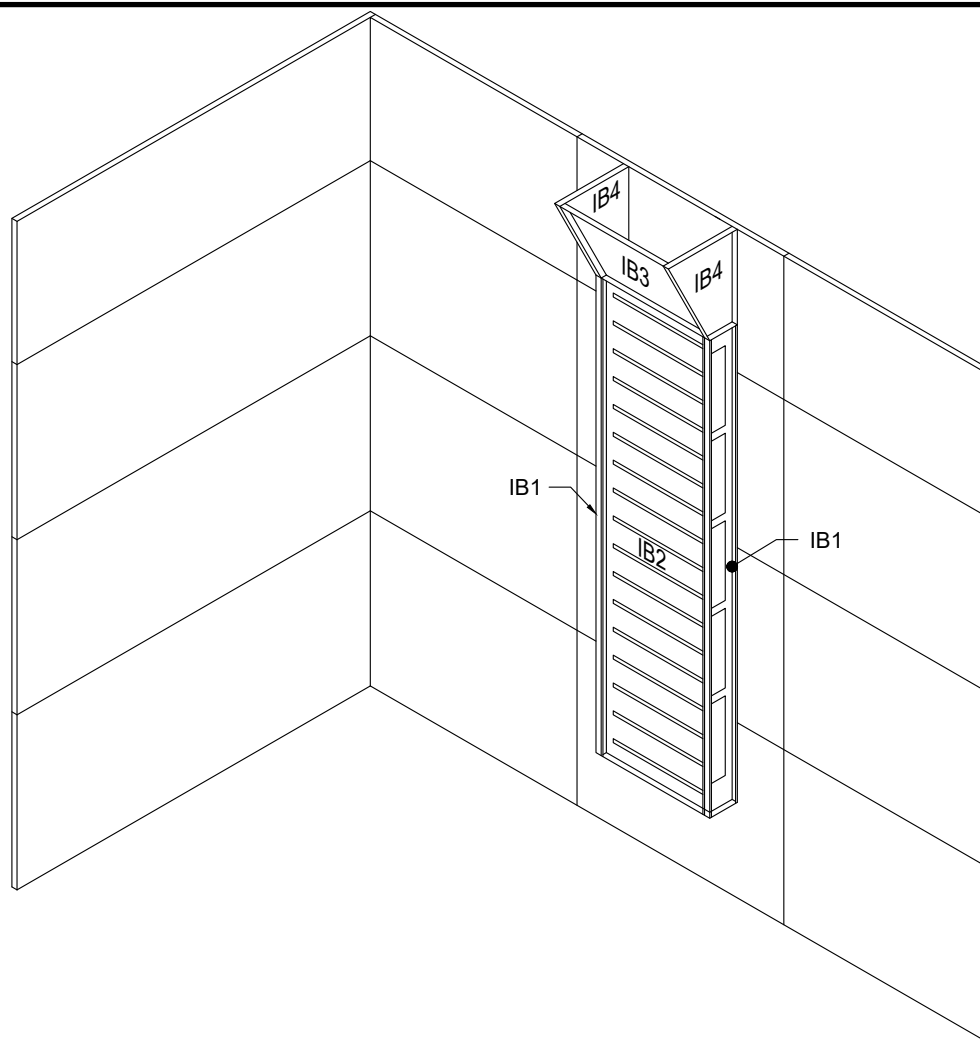
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DATE:

14-Feb-19

SHEET:

17



NOTES:

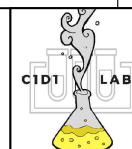
PANELS HAVE SMOOTH SURFACE
FACING IN UNLESS OTHERWISE NOTED

PARTS LIST

Count	PART_NUMBER	DESCRIPTION
2	IB1	8 X 120 INTAKE PLENUM PANEL W/ VENT SLOTS
1	IB2	30 X 120 INTAKE PLENUM PANEL W/ VENT SLOTS
1	IB3	30 X 20 3/4 INTAKE PLENUM PANEL
2	IB4	8 X 24 X 20 INTAKE PLENUM PANEL

SHEET TITLE:

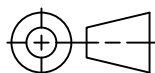
INTAKE BOX



C1D1 LABS

UNLESS OTHERWISE
SPECIFIED DIMENSIONS
ARE IN INCHES (IN)
TOLERANCE: $\pm 1/8$ "

THIRD ANGLE PROJECTION



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REVISION:

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SCALE:

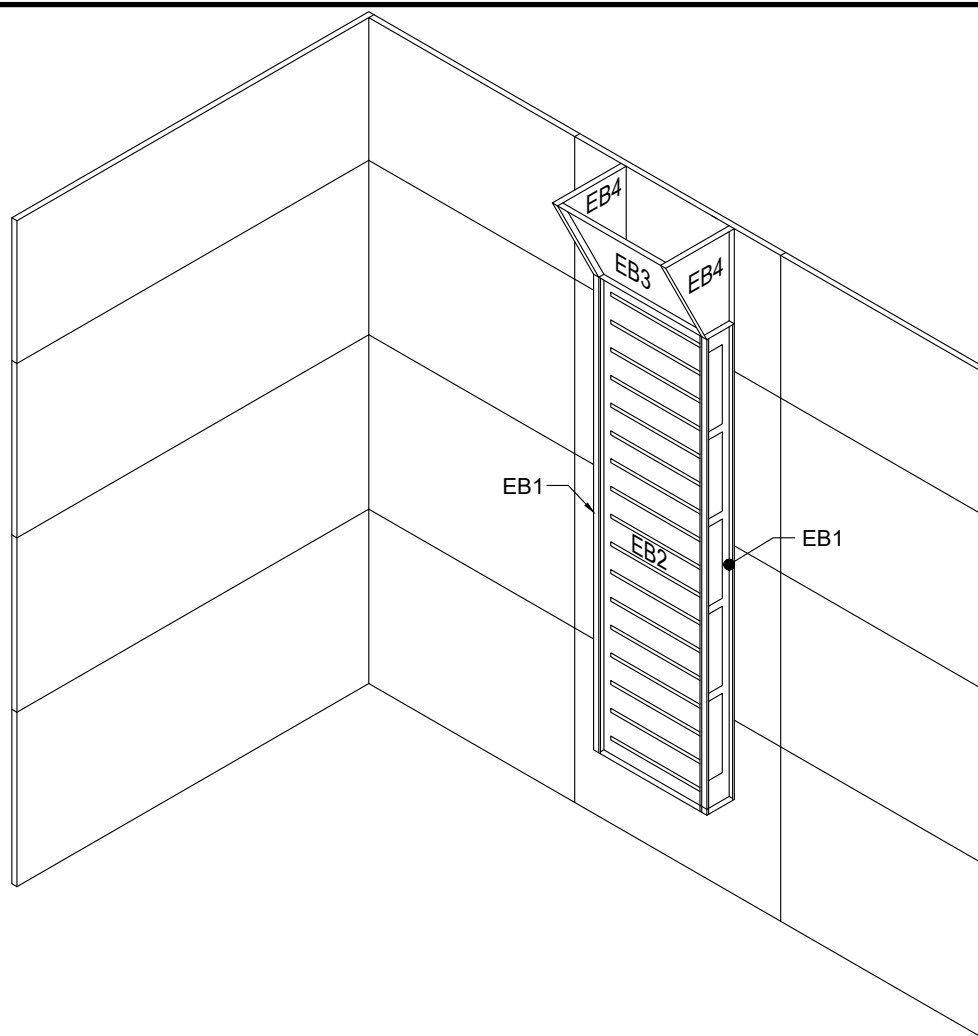
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DATE:

14-Feb-19

SHEET:

18



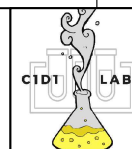
NOTES:

PANELS HAVE SMOOTH SURFACE
FACING IN UNLESS OTHERWISE NOTED

PARTS LIST		
Count	PART_NUMBER	DESCRIPTION
2	EB1	8 X 120 EXHAUST PLENUM PANEL W/ VENT SLOTS
1	EB2	30 X 120 EXHAUST PLENUM PANEL W/ VENT SLOTS
1	EB3	30 X 20 3/4 EXHAUST PLENUM PANEL
2	EB4	8 X 24 X 20 EXHAUST PLENUM PANEL

SHEET TITLE:

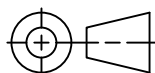
EXHAUST BOX



C1D1 LABS

UNLESS OTHERWISE
SPECIFIED DIMENSIONS
ARE IN INCHES (IN)
TOLERANCE: $\pm 1/8"$

THIRD ANGLE PROJECTION



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REVISION:

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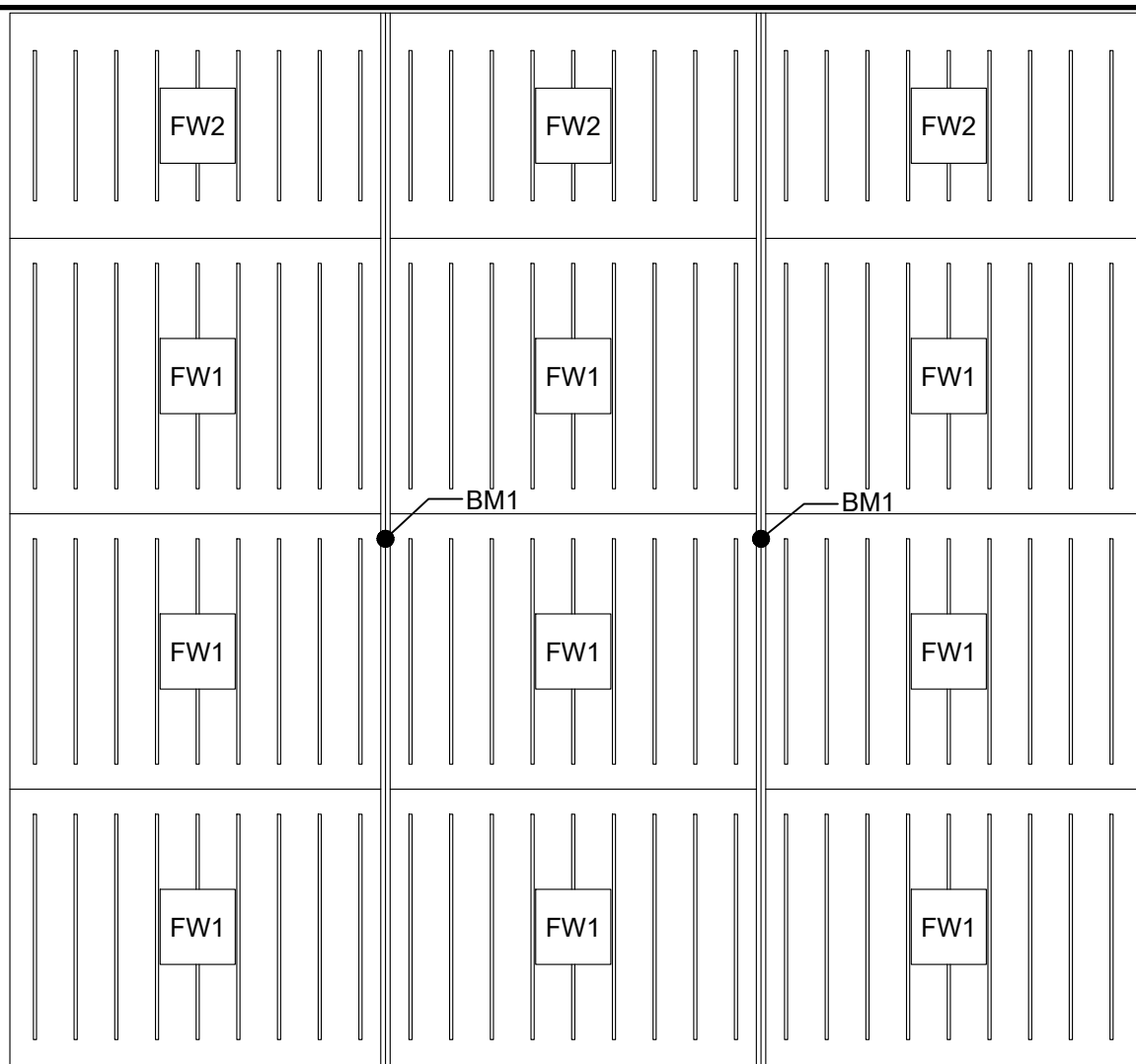
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DATE:

14-Feb-19

SHEET:

19



NOTES:

PANELS HAVE SMOOTH SURFACE
FACING IN UNLESS OTHERWISE NOTED

BEAMS SHOULD FLIPPED SO FLAT SIDE
FACES OUT

PARTS LIST		
Count	PART_NUMBER	DESCRIPTION
2	BM1	3 X 168 WALL BEAM
9	FW1	44 X 60 FILTER WALL PANEL
3	FW2	36 X 60 FILTER WALL PANEL

SHEET TITLE:

FILTER WALLS



C1D1 LABS

UNLESS OTHERWISE
SPECIFIED DIMENSIONS
ARE IN INCHES (IN)
TOLERANCE: $\pm 1/8"$

THIRD ANGLE PROJECTION

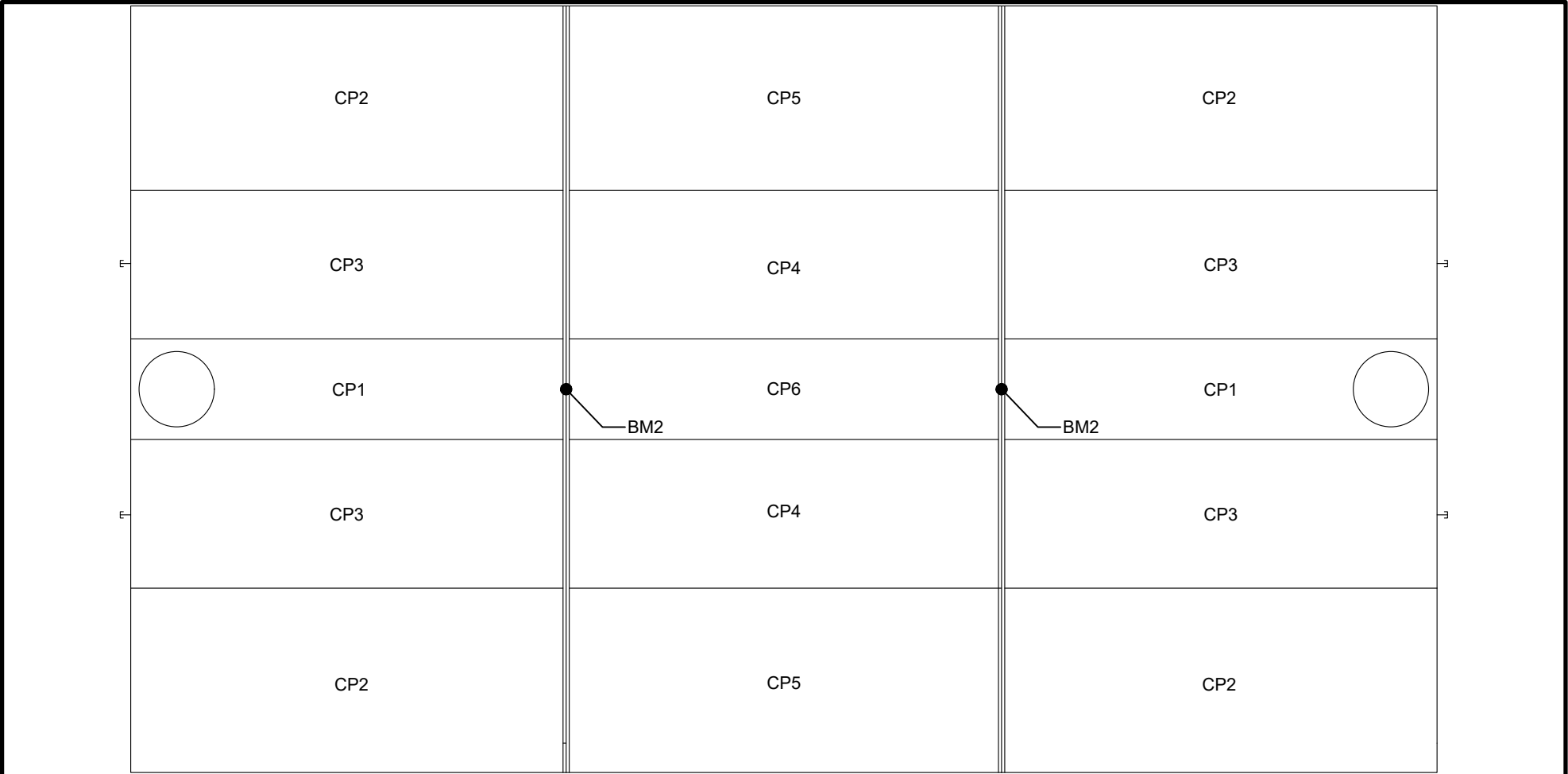
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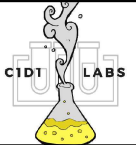


NOTES:
PANELS HAVE SMOOTH SURFACE
FACING IN UNLESS OTHERWISE NOTED

PARTS LIST		
Count	PART_NUMBER	DESCRIPTION
2	BM2	8 X 188 CEILING BEAM
2	CP1	24 X 107 CEILING PANEL W/ 18" Ø
4	CP2	44 X 107 CEILING PANEL
4	CP3	35 1/2 X 107 CEILING PANEL
2	CP4	35 1/2 X 98 CEILING PANEL
2	CP5	44 X 98 CEILING PANEL
1	CP6	24 X 98 CEILING PANEL

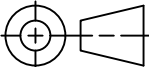
SHEET TITLE:

CEILING



C1D1 LABS

UNLESS OTHERWISE
SPECIFIED DIMENSIONS
ARE IN INCHES (IN)
TOLERANCE: ± 1/8"

THIRD ANGLE PROJECTION


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SHEET SIZE: A

REVISION: 0

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DATE: 14-Feb-19

SHEET: 21