

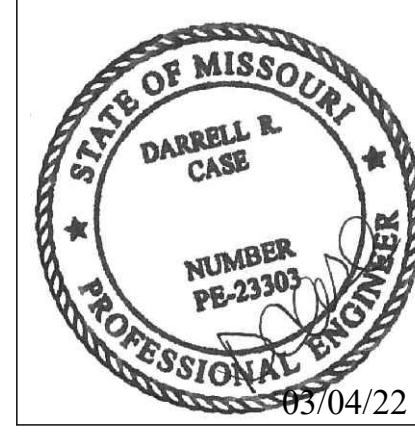
CASE
Engineering Inc.

796 Main Court
St. Louis, MO 63106

T 636-249-1600
F 636-249-1739

CERTIFICATE OF AUTHORITY NO. 001-498

**544 MAE COURT
FENTON, MO 63026**



CRASH CHAMPIONS - LEE SUMMIT
PAINT BOOTH
451 SE OLDHAM PKWY
LEE SUMMIT MO 64081

REVISIONS

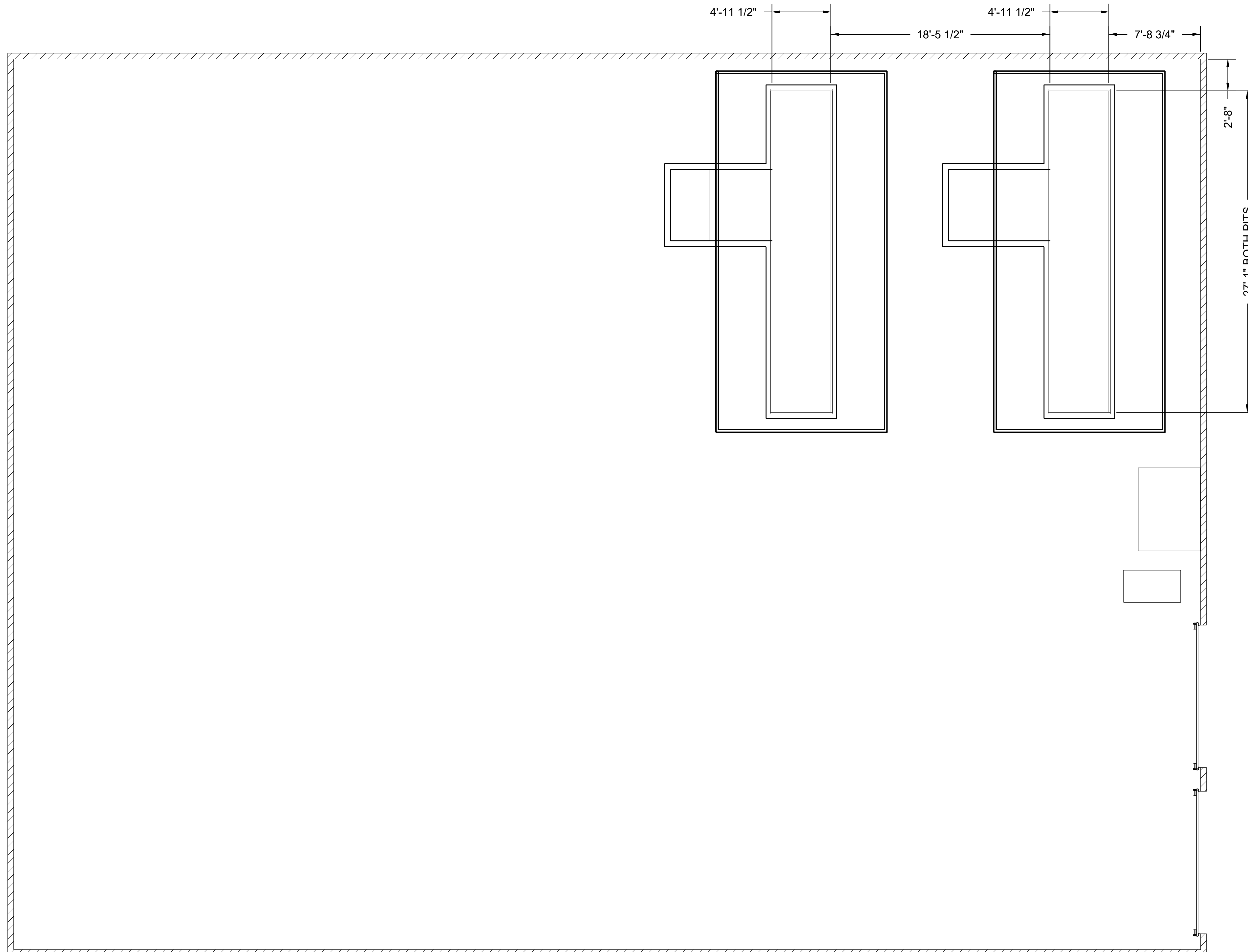
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**PAINT BOOTH
LOCATION**

Project #
Issue Date
Drawn by
Checked by

M1

Scale



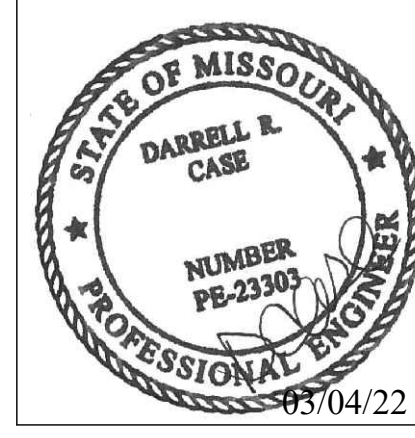
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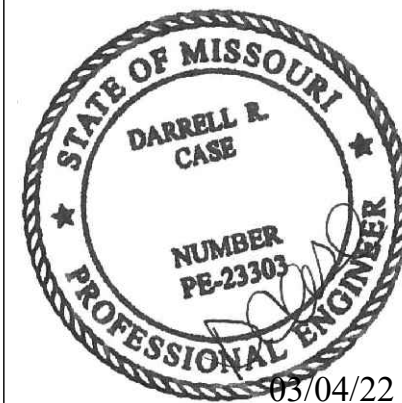
Scale

CASE
Engineering Inc.

796 Meigs Court
St. Louis, MO 63026
T 636.399.1600
F 636.399.1730
CERTIFICATE OF AUTHORITY NO. 001696

AUTOMOTIVE TECHNOLOGY, INC.

544 MAE COURT
FENTON, MO 63026



CRASH CHAMPIONS -LEE SUMMIT
PAINT BOOTH
451 SE OLDHAM PKWY
LEE SUMMIT, MO 64081

REVISIONS

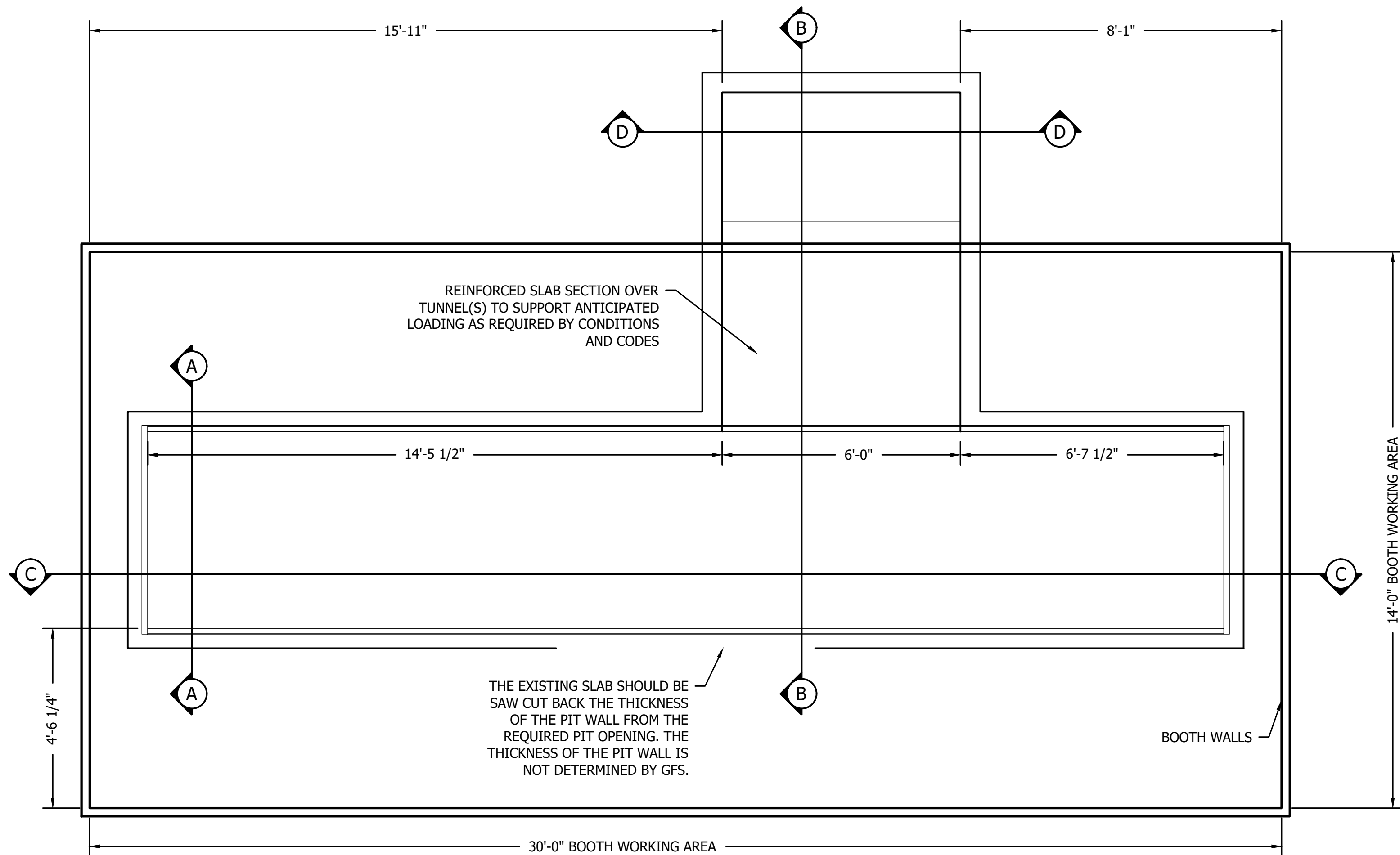
No.	Description	Date

PAINT BOOTH
SPECIFICATIONS

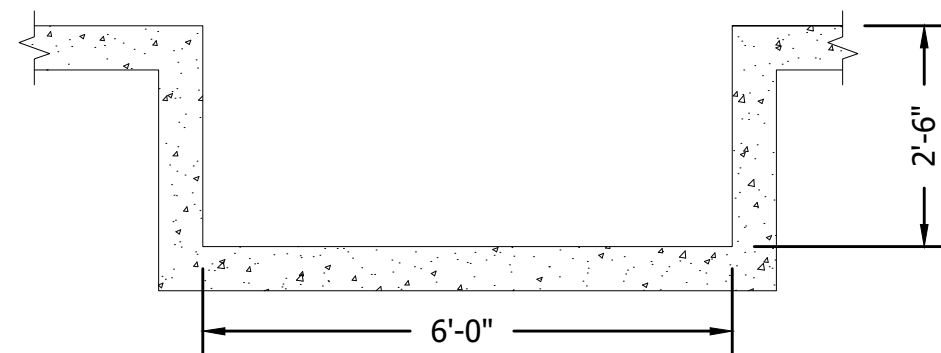
Project #
Issue Date
Drawn by
Checked by

M2

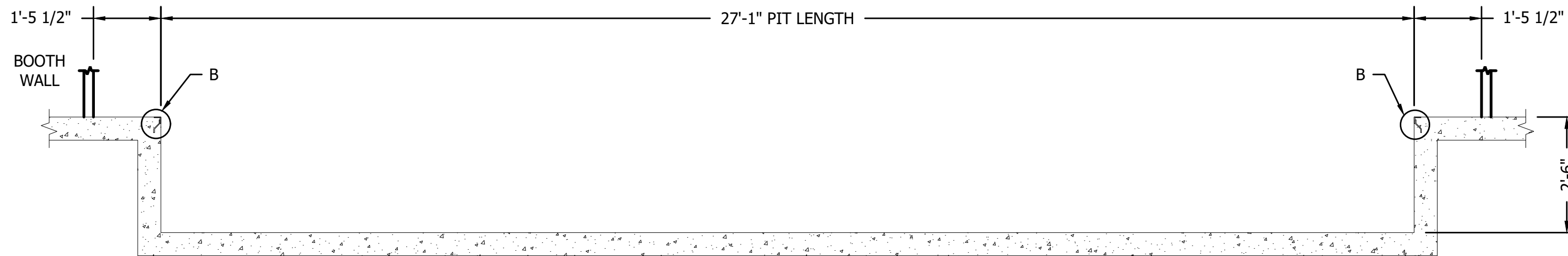
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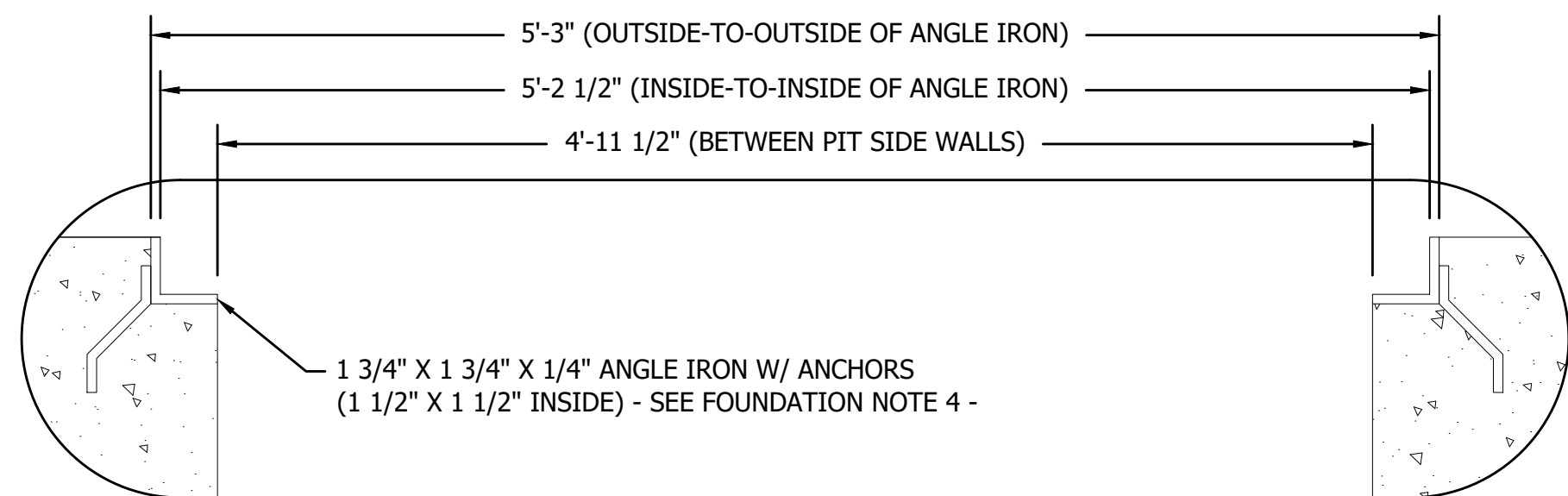
PLAN VIEW



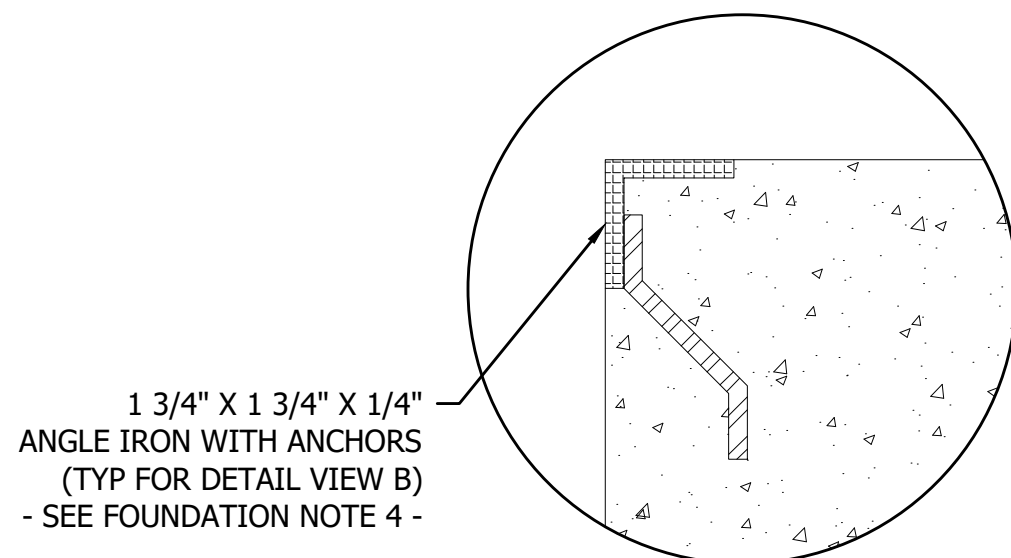
SECTION D - D



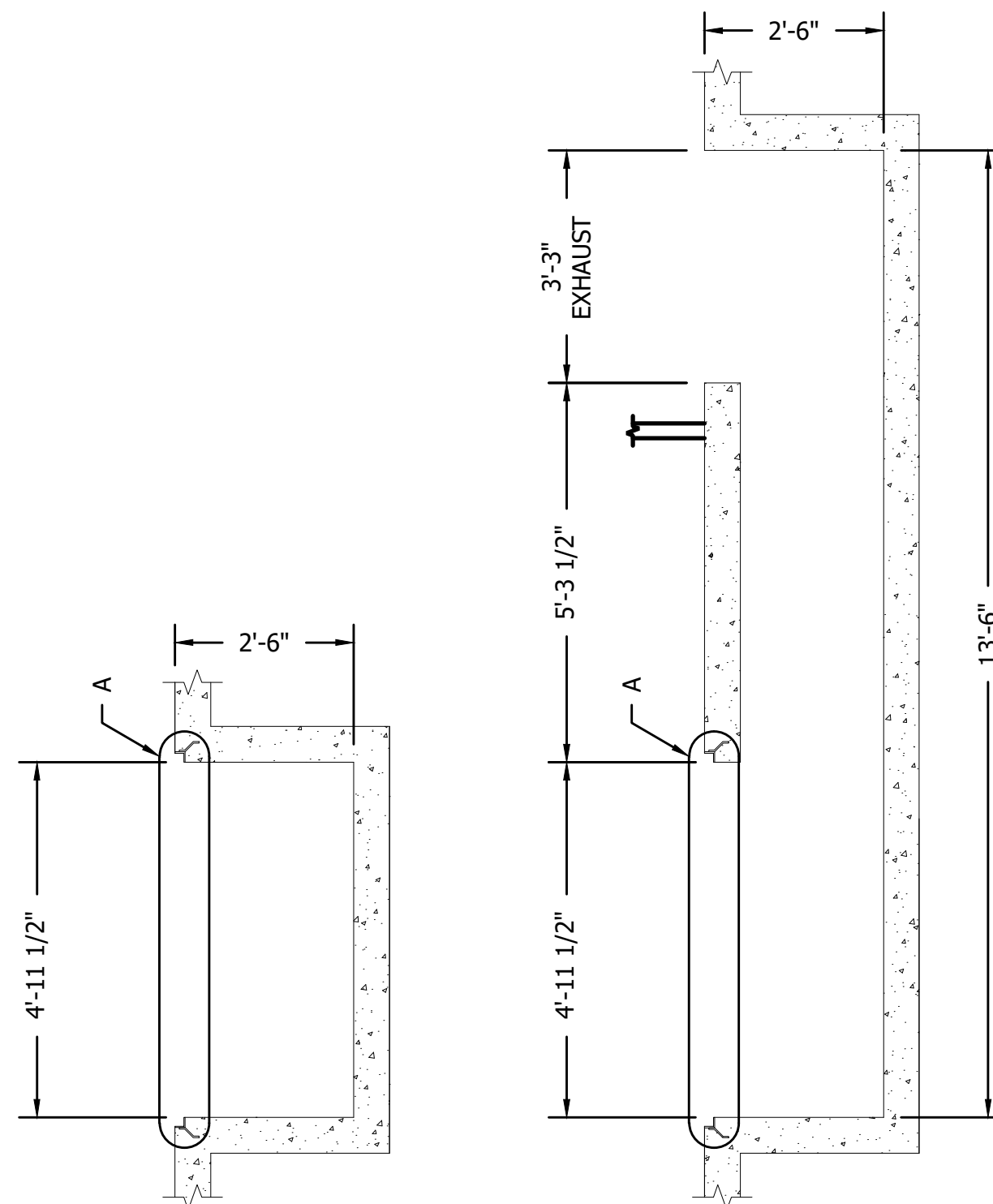
SECTION C - C



DETAIL A



DETAIL B



SECTION A - A

SECTION B - B

FOUNDATION NOTES

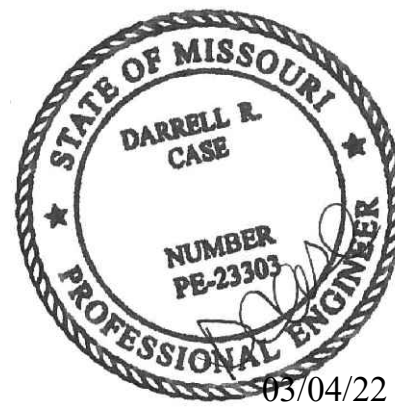
- CONTRACTOR SHALL VERIFY THAT THERE ARE NO INTERFERENCES BETWEEN EXISTING FOUNDATION (FTG. PADS, CON. FTGS, GRADE BEAM, TIES, ETC) AND PROPOSED PIT FOUNDATION.
- DO NOT PLACE BACKFILL AGAINST WALL UNTIL THE WALL HAS BEEN ADEQUATELY SHORED.
- WALL LOCATIONS TO BE WITHIN 1/4" OF DIMENSIONS SHOWN.
- ALL ANGLE IRON HAS BEEN SHOWN AS A REFERENCE, SHOULD BE IN THE SCOPE OF THE FOUNDATION DESIGN, AND PROVIDED BY OTHERS. ADJUSTMENTS MUST BE MADE FOR ANGLE THICKNESS THAT VARY FROM 1/4" AS SHOWN IN DETAIL A.
- THE DESIGN OF THE PIT GRATING AND ITS CAPACITY HAS BEEN PROVIDED IN A TABLE. DO NOT EXCEED THE WHEEL LOAD CAPACITY OF THE GRATING AS PROVIDED BY GFS. WHEELED VEHICLES WITH URETHANE TIRES SHOULD NEVER BE USED.
- GRATINGS MUST BE INSTALLED WITH CROSS BARS ON TOP SIDE.
- NOTCHING OF BEARING BARS AT SUPPORTS TO MAINTAIN PROPER ELEVATION IS GENERALLY NOT RECOMMENDED. IF NOTCHING IS REQUIRED FOR INSTALLATION, MANUFACTURER SHOULD BE CONSULTED.
- METAL SHOULD ALWAYS BE USED FOR ALL GRATING SUPPORTS.
- A MINIMUM OF 1" BEARING SHALL BE PROVIDED FOR ALUMINUM AND LIGHT DUTY STEEL GRATING. FOR HEAVY DUTY STEEL GRATING, 1" MINIMUM BEARING SHALL BE PROVIDED FOR BEARING BAR DEPTHS UP TO 2-1/4", AND 2" MINIMUM BEARING SHALL BE PROVIDED FOR DEPTHS OF 2-1/2" AND OVER. THIS BEARING SURFACE DOES NOT INCLUDE THE SUPPORT ANGLE FILLET RADIUS.
- ALL DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE. CUSTOMER MUST CHECK EQUIPMENT SIZE, LOCATION IN BUILDING AND ALL CLEARANCES TO BUILDING AND CONTENTS.
- DEPTH DIMENSIONS ARE BASED ON HAVING A 6" SLAB OVER THE EXHAUST TUNNEL. IF STRUCTURAL ANALYSIS INDICATES THAT A THICKER SLAB IS REQUIRED, PIT DEPTH SHOULD BE INCREASED ACCORDINGLY AND GFS NOTIFIED SO TALLER PIT RAILS CAN BE PROVIDED.

BAR GRATING SPECIFICATION	
BAR SIZE (in)	1 - 1/2 x 3/16
TYPE	LIGHT DUTY
MAX WHEEL LOAD (lbs)	1,850
W SERIES	19-W-4
* BASED ON A CONTACT LENGTH OF 9" (IE 11 BARS/FT OF GRATING WIDTH) AND A MAXIMUM CLEAR SPAN OF 2'-4 1/2"	

CASE
Engineering Inc.
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CERTIFICATE OF AUTHORITY NO. 001646

AUTOMOTIVE TECHNOLOGY, INC.

544 MAE COURT
FENTON, MO 63026



CRASH CHAMPIONS - LEE SUMMIT

PAINT BOOTH

451 SE OLDHAM PKWY
LEE SUMMIT, MO 64081

REVISIONS

No.	Description	Date

PAINT BOOTH
SPECIFICATIONS

Project #

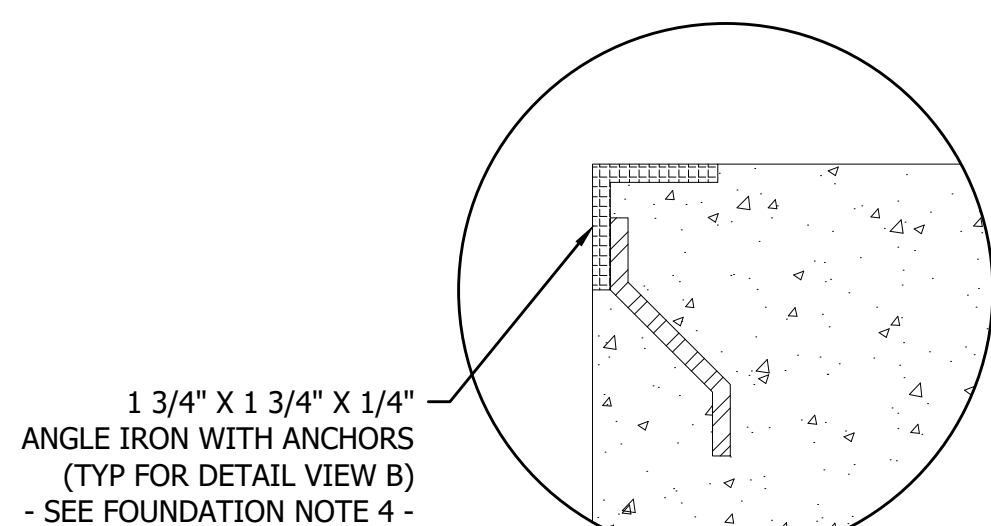
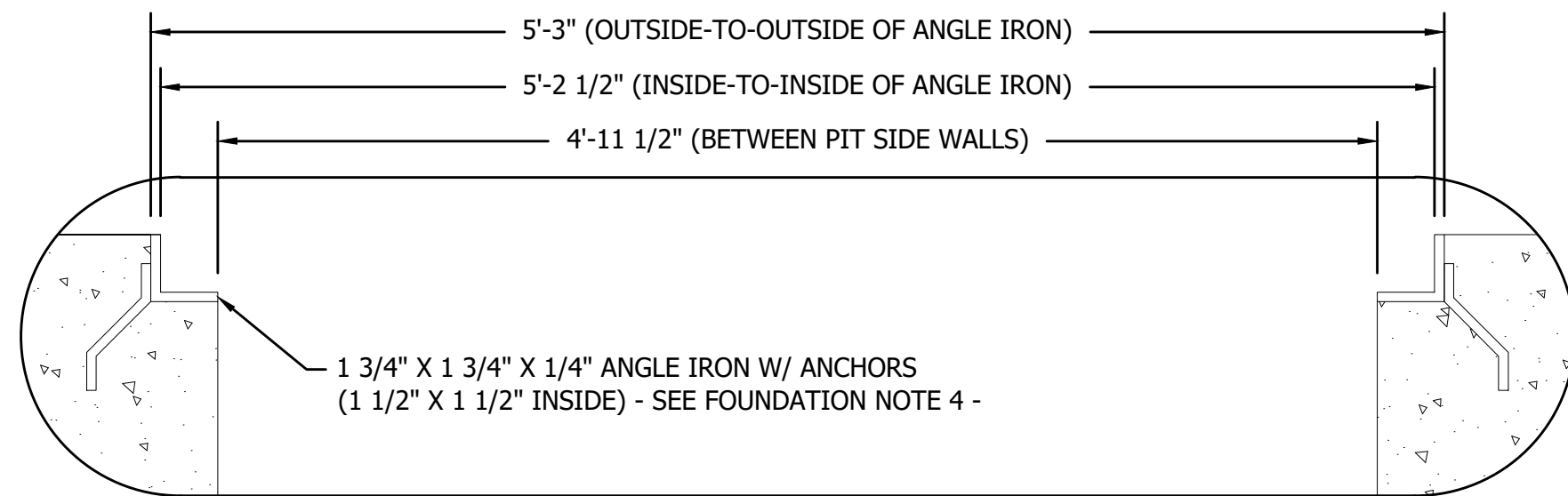
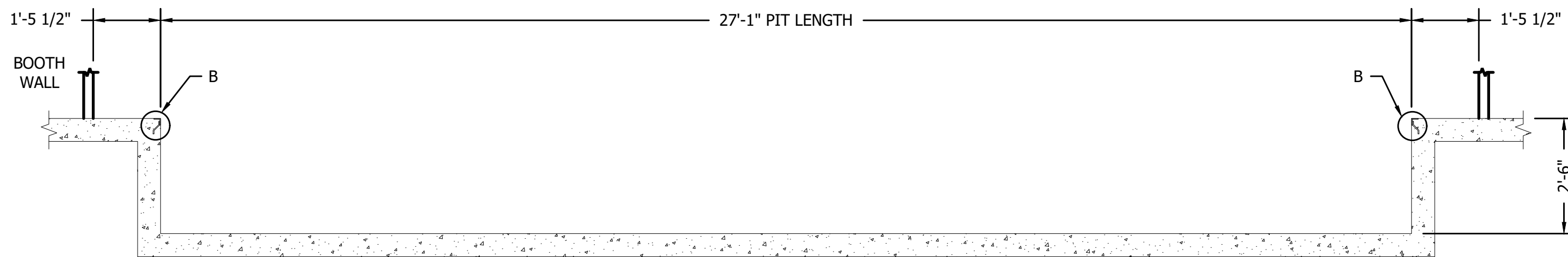
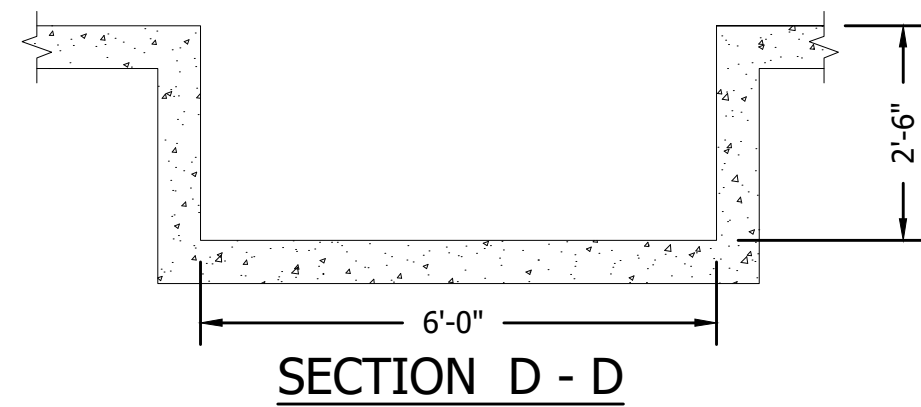
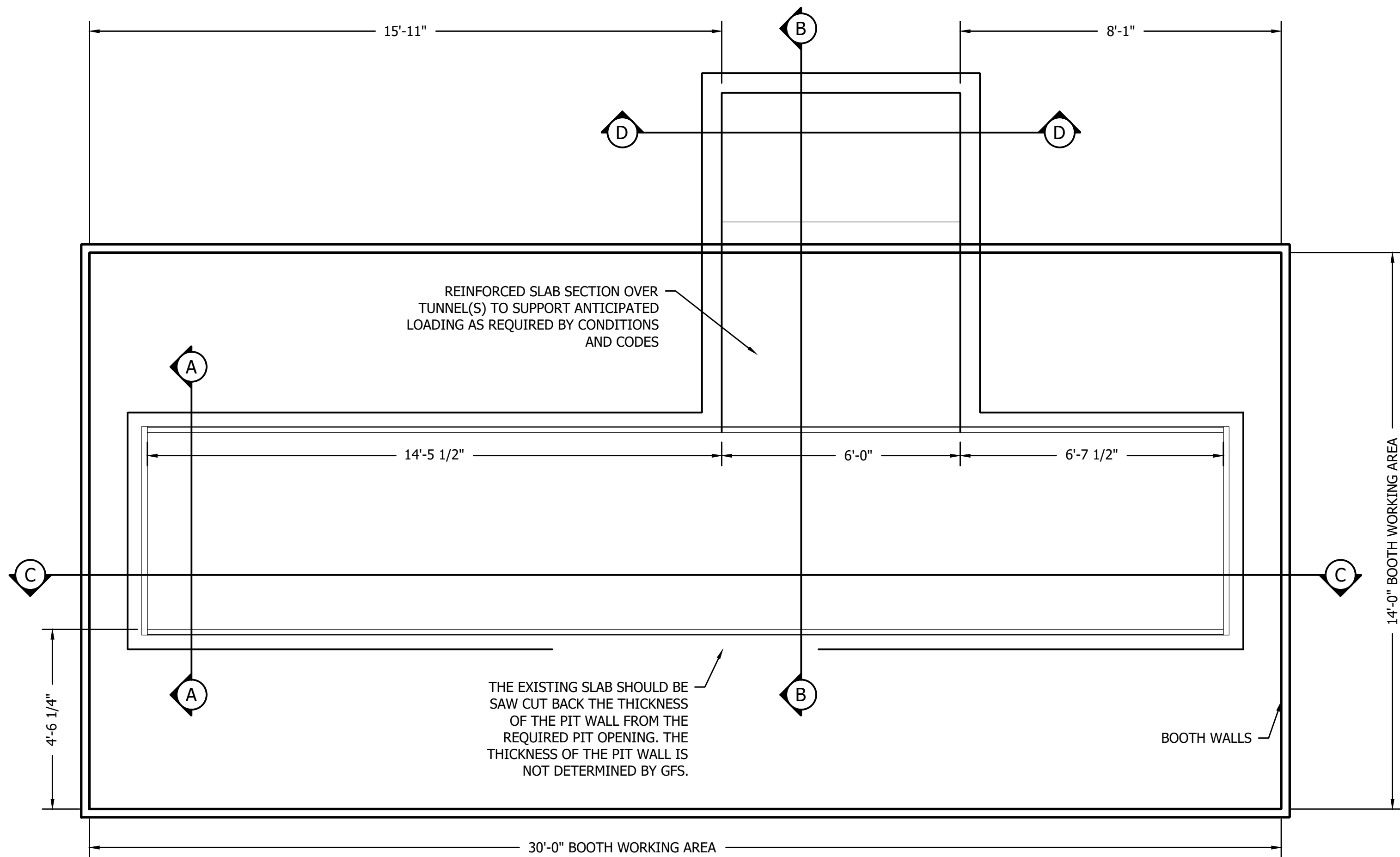
Issue Date

Drawn by

Checked by

M3

Scale



BAR GRATING SPECIFICATION

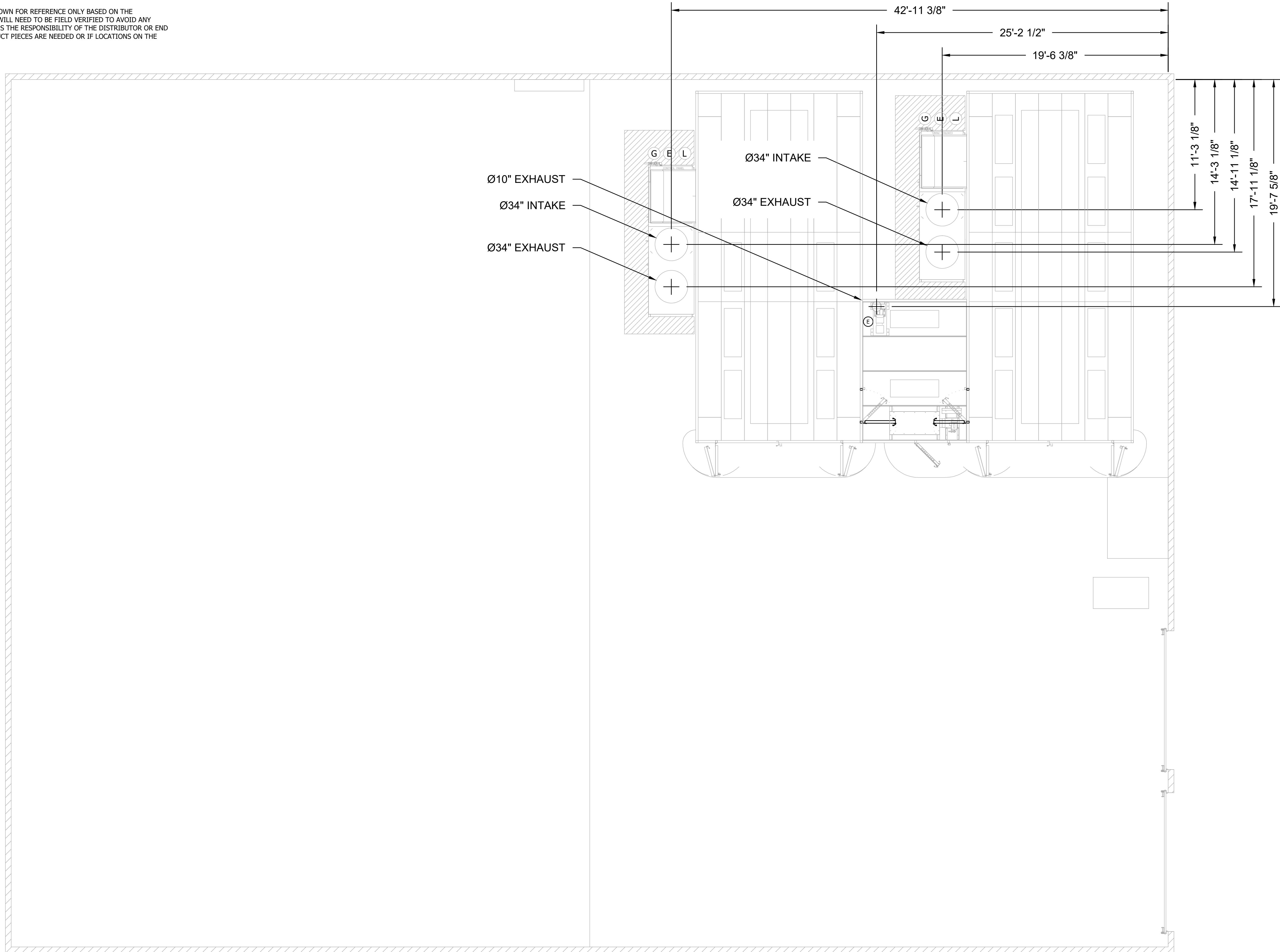
BAR SIZE (in)	1 - 1/2 x 3/16
TYPE	LIGHT DUTY
MAX WHEEL LOAD (lbs)	1,850
W SERIES	19-W-4
* BASED ON A CONTACT LENGTH OF 9" (IE 11 BARS/FT OF GRATING WIDTH) AND A MAXIMUM CLEAR SPAN OF 2'-4 1/2"	

FOUNDATION NOTES

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GFS EQUIPMENT CONSTRUCTION NOTE:

1. THE EQUIPMENT DEPICTED IN THIS DRAWING HAS NOT BEEN APPROVED FOR OUTDOOR APPLICATIONS. IN THE EVENT THAT SUCH APPLICATIONS AND/OR USES ARE CONTEMPLATED, THE PURCHASER OF THE EQUIPMENT IS RESPONSIBLE FOR NOTIFYING GFS SO THAT ADDITIONAL STRUCTURAL ANALYSIS CAN BE PERFORMED AND THE NECESSARY MODIFICATIONS CAN BE DETERMINED.
2. DUCT SUPPORT NOT SUPPLIED OR DESIGNED BY GFS. EQUIPMENT IS NOT DESIGNED TO SUPPORT DUCT. DUCT SUPPORTS SHALL BE DESIGNED TO RELIEVE THE EQUIPMENT OF ALL DUCT LOAD.
3. ROOF PENETRATION LOCATIONS ARE SHOWN FOR REFERENCE ONLY BASED ON THE INFORMATION PROVIDED. LOCATIONS WILL NEED TO BE FIELD VERIFIED TO AVOID ANY OVERHEAD OBSTACLES AS NEEDED. IT IS THE RESPONSIBILITY OF THE DISTRIBUTOR OR END USER TO NOTIFY GFS IF ADDITIONAL DUCT PIECES ARE NEEDED OR IF LOCATIONS ON THE DRAWING NEED TO BE ALTERED.

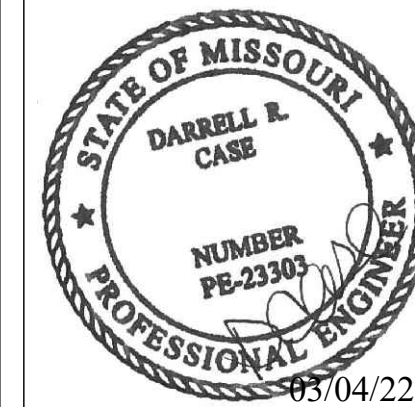


CASE
Engineering Inc.

794 Menard Court
St. Louis, MO 63106
Tel: 635-349-1000
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E-mail: SALES@CASE-ENGINEERING.COM

AUTOMOTIVE TECHNOLOGY, INC.

**544 MAE COURT
FENTON, MO 63026**



CRASH CHAMPIONS-LEE SUMMIT

PAINT BOOTH

451 SE OLDHAM PKWY
LEE SUMMIT, MO 64081

REVISIONS

[illegible]

PAINT BOOTH SPECIFICATIONS

Project #

Issue Date	
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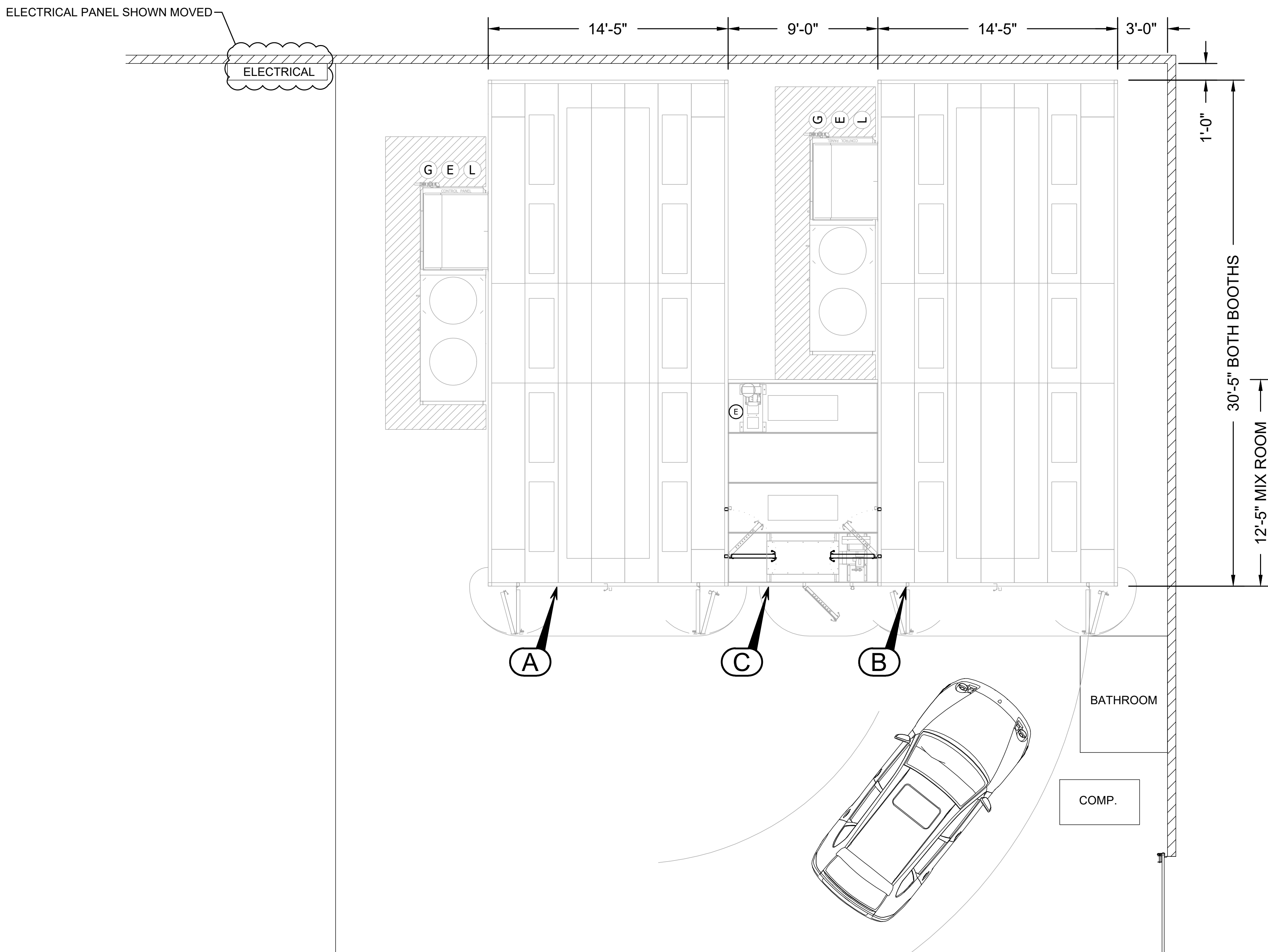
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M4

Scale

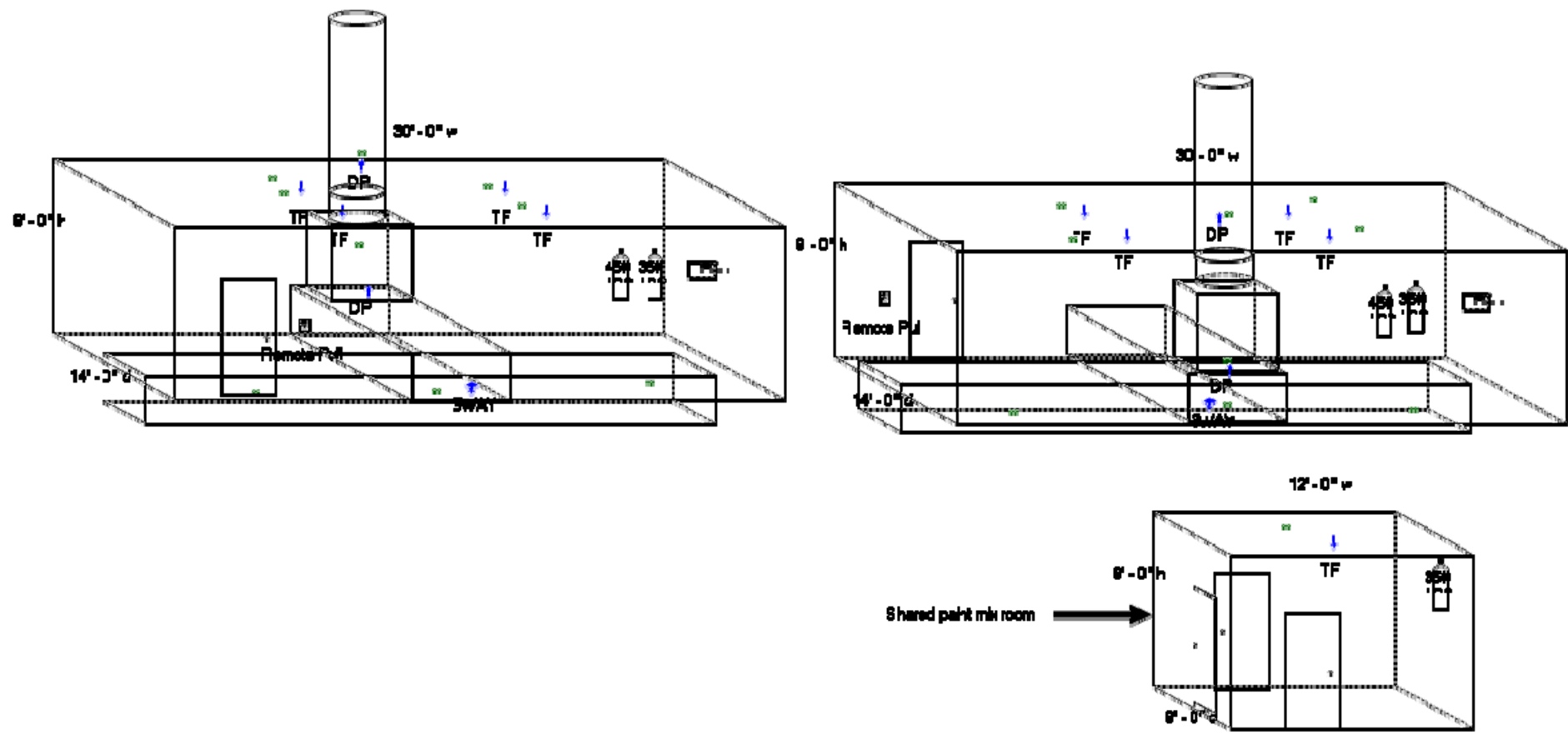
1. GAS SUPPLY REQUIRED (BY OTHERS) TO GAS CONNECTION POINT (G).
MINIMUM GAS PRESSURE IS REQUIRED AT MAXIMUM VOLUME CONSUMED.
MINIMUM CIRCUIT CAPACITY IS REQUIRED (BY OTHERS) TO CONNECTION POINT (E).
LIGHTING CIRCUIT IS REQUIRED (BY OTHERS) TO CONNECTION POINT (L).
2. THE EQUIPMENT DEPICTED IN THIS DRAWING HAS NOT BEEN APPROVED FOR OUTDOOR APPLICATIONS. IN THE EVENT THAT SUCH APPLICATIONS AND/OR USES ARE CONTEMPLATED, THE PURCHASER OF THE EQUIPMENT IS RESPONSIBLE FOR NOTIFYING GFS SO THAT ADDITIONAL STRUCTURAL ANALYSIS CAN BE PERFORMED AND THE NECESSARY MODIFICATIONS CAN BE DETERMINED.
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<div><div>A</div><div>ULTRA XL DOWNDRAFT BOOTH 30'L x 14'W x 12'H INSIDE</div></div>	AIR HEATER								MOTOR MINIMUM CIRCUIT CAPACITY						LIGHTING CIRCUIT			<div><div>C</div><div>ULTRA XD MIX ROOM 12'L x 9'W x 9'H INSIDE</div></div>	ELECTRICAL REQUIREMENTS				
	MAX AIR FLOW RATE (CFM)	INTAKE / EXHAUST MOTOR (HP)	FUEL	MAX FIRING RATE (BTU/HR)	MIN INLET PRESS. AT MAX FIRING RATE (INWC)	MAX INLET PRESS. (PSI)	TEMP. RISE (°F)	INLET PIPE SIZE NPT (IN)	MOTOR SPECIFICATIONS		FULL LOAD AMP DRAW /MINIMUM CIRCUIT CAPACITY				QUANTITY OF LIGHT FIXTURES (4-TUBE, 6-TUBE, STD OR LED)	SINGLE PHASE MINIMUM CIRCUIT CAPACITY (AMPS)				ELECTRICAL DEVICE	MOTOR	FULL LOAD AMP DRAW	MINIMUM CIRCUIT CAPACITY
				15HP INTAKE, 15HP EXHAUST	230V 1PH	208V 3PH	230V 3PH	480V 3PH	575V 3PH	NO ADVANCE CURE	44.0 / 55.0												
				NATURAL GAS	1512605	13.0	5.0	91	1 1/4														
					1323529	5.0		80															
15205	15 / 15	PROPANE											16	30	20	EXHAUST FAN & INTAKE FAN	FAN MOTOR (EACH)	1/2HP, 120V, 1PH	9.8	30 AMP			
															LIGHT FIXTURES		120V / 277V	1.0 / 0.5 (EACH)					

<div><div>B</div><div>ULTRA XD DOWNDRAFT BOOTH 30'L x 14'W x 9'H INSIDE</div></div>	AIR HEATER								MOTOR MINIMUM CIRCUIT CAPACITY						LIGHTING CIRCUIT						
	MAX AIR FLOW RATE (CFM)	INTAKE / EXHAUST MOTOR (HP)	FUEL	MAX FIRING RATE (BTU/HR)	MIN INLET PRESS. AT MAX FIRING RATE (INWC)	MAX INLET PRESS. (PSI)	TEMP. RISE (°F)	INLET PIPE SIZE NPT (IN)	MOTOR SPECIFICATIONS		FULL LOAD AMP DRAW /MINIMUM CIRCUIT CAPACITY				QUANTITY OF LIGHT FIXTURES (4-TUBE, 6-TUBE, STD OR LED)	SINGLE PHASE MINIMUM CIRCUIT CAPACITY (AMPS)					
				15HP INTAKE, 15HP EXHAUST	230V 1PH	208V 3PH	230V 3PH	480V 3PH	575V 3PH	NO ADVANCE CURE	44.0 / 55.0										
				NATURAL GAS	1512605	13.0	5.0	91	1 1/4												
					1323529	5.0		80													
15205	15 / 15	PROPANE											16	30	20						

Amerex Pre-Engineered Fire Suppression System



SCALE

1 foot



Designed & Installed by:
Allstate Fire Company
1030 W 23rd Suite G
Independence, MO 64055
816-463-2672

For:
Crash Champions Lees Summit
451 SE Oldham Rd
Lees Summit, MO 64081

Job: New Fire Sysetm

Date: 6/23/2022

Stamp

Fire Suppression System Design Specifications

Notes

- A plastic cap which covers the nozzle tip to keep grease, dirt, or foreign material from plugging the orifice.
- The Industrial Dry Chemical Fire Suppression System has been installed in accordance with NFPA 17, NFPA 33, and the local I.M.C. Codes.
- The Industrial Dry Chemical Fire Suppression System has been evaluated by Underwriters Laboratories (UL) in accordance with the specific test protocol found in the UL1254 Standard (Pre-Engineered Dry Chemical System Units).
- All Electric work to be performed by the customer's Licensed Electrician.
- Exhaust Fan - VPSB required to shut down prior to discharge.
- Fire Suppression System to be tied into by the customer's Licensed Fire Alarm Company.
- Fittings are Schedule 40, 150# BMI.
- This Fire Suppression System has been designed so the customer can add additional coverage, if needed, in the future.
- Pipe is Schedule 40, 1" (black, chrome or stainless steel) pipe.
- Pipe is Schedule 40, 3/4" (black, chrome or stainless steel) pipe.

System Materials

Item Number	Description	Flow	Qty
16172	Total Flood (TF)	9.0	9
16174	Three-Way (3WAY)	2.0	2
16190	Duct and Plenum (DP)	4.0	4
16208	AGENT CYLINDER ASY 1/2" IS45ABC		2
16207	AGENT CYLINDER ASY 1/2" IS35ABC		3
16225	JOB LINK QUICK RESPONSE (200 F / 93 C)		14
12328	FUSIBLE LINK (360 F / 182 C)		2
16226	JOB LINK QUICK RESPONSE (286 F / 141 C)		2
12326	FUSIBLE LINK (212 F / 100 C)		1
18001	MRM - Mechanical Release Module		2
11993	Manual Pull Station - English - Rectangular		2
12856	Nitrogen Cylinder - 10 in(3)		2
10147	Pneumatic Control Head		5
12508	Detector Bracket Assembly - Includes Bracket, Linkage & Con		18
16235	Compression Seal - 3/4" EMT		12
22279	Quick Seal Corner Pulley Adapter - Fits CP5		12
18252	Quick Seal - 1" Pipe		2
16386	Alarm Bell 6" 115 VAC		1
15765	Mechanical Time Delay		2

Total Flow Points: 15.0



Designed & Installed by:
Allstate Fire Company
1030 W 23rd Suite G
Independence, MO 64055

For:
Crash Champions Lees Summit
451 SE Oldham Rd
Lees Summit, MO 64081

Fire Suppression System Design Specifications

Notes

- Piping Requirements: Piping diagrams include limitations on pipe length and fittings. System piping must be balanced. Balanced piping is that in which the difference between the shortest actual pipe length from the 1" tee to the nozzle and the longest actual pipe length from the 1" tee to the nozzle does not exceed 10% of the actual pipe length from tee to nozzle. The number and type of fittings for both tee to nozzle sections must be equal.
- Remote pull station shall be 48" above finished floor and in the path of egress.
- System shall have manual and automatic methods of actuation.
- Upon activation of system all electrical & fuel must shut down.

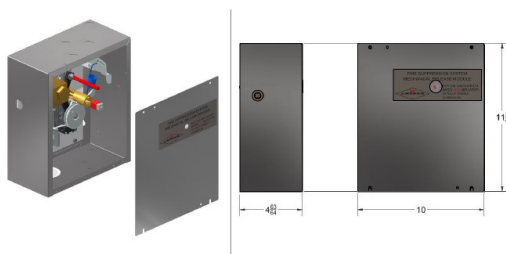


Designed & Installed by:
Allstate Fire Company
1030 W 23rd Suite G
Independence, MO 64055

For:
Crash Champions Lees Summit
451 SE Oldham Rd
Lees Summit , MO 64081

Amerex Fire Suppression System Specifications

MECHANICAL RELEASE MODULE



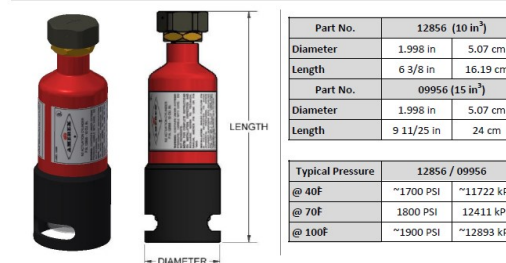
P/N: 18001

The new MRM combines the same features and functionality as the original MRM along with increased detection capabilities and far simpler means of setting the detection cable tension. The slide plate and collapsible column are now Teflon coated. The MRM is available in the above configurations, now preinstalled in its own enclosure.

Setting the detection cable tension does not require the use of any tools (once the cable is locked down into the large, knurled ratchet wheel). A large lever to the right of the ratchet wheel is used to increase the cable tension. Alignment of the bottom edge of the lever with markings on a label indicates when the proper tension has been achieved. Lowering cable tension to change out detection links is now also much simpler.

There is also a MRM available without the enclosure, P/N 11977. This has the same purpose and functionality as the MRM (P/N 18001). It is often used in conjunction with the Single

NITROGEN ACTUATION CYLINDERS



P/N: 12856 / 09956

The N2 Actuation Cylinder supplies nitrogen gas pressure to the Agent Cylinder Discharge Valve through the actuation network for the purpose of opening the Agent Cylinder. Each Actuation Cylinder is charged to 1800 psig (12410 kPa) at 70°F (21°C).

The 10 in³ N₂ Actuation Cylinder (P/N 12856) contains enough nitrogen to actuate up to ten total of Models 275 / 375 / 475 Agent Cylinders Assemblies in any combination. A total of six Model 600 Agent Cylinders Assemblies OR a total of six Agent Cylinders when the mix contains at least one Model 600 Agent Cylinder Assemblies.

The 15 in³ N₂ Actuation Cylinder (P/N 09956) contains enough nitrogen to actuate up to ten total of Models 275 / 375 / 475 & 600 Agent Cylinders Assemblies in any combination.

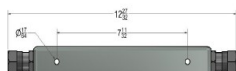
A Replacement Rupture Disc (P/N 09958) is available for both cylinders for use by certified

FUSIBLE / JOB LINK DETECTOR BRACKET

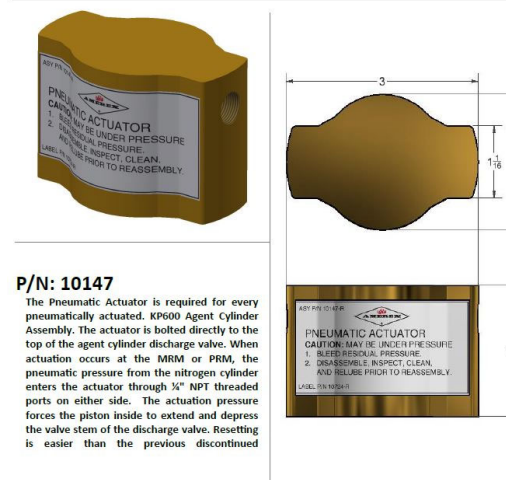


P/N: 12508

Each Detector Bracket in the AMEREX KP System is comprised of three parts: the Detector Bracket, Detector Linkage and two EMT fittings. The fusible link is ordered separately. The bracket serves as support for the linkage and is attached to a rigid surface. The linkage supports the fusible link and a continuous cable run under tension. At a predetermined temperature the fusible link will separate, relieving tension on the cable and actuating the

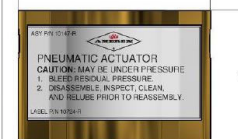


KP600 PNEUMATIC ACTUATOR



P/N: 10147

The Pneumatic Actuator is required for every pneumatically actuated. KP600 Agent Cylinder Assembly. The actuator is bolted directly to the top of the agent cylinder discharge valve. When actuation occurs at the MRM or PRM, the pneumatic pressure from the nitrogen cylinder enters the actuator through 1/4" NPT threaded ports on either side. The actuation pressure forces the piston inside to extend and depress the valve stem of the discharge valve. Resetting is easier than the previous discontinued

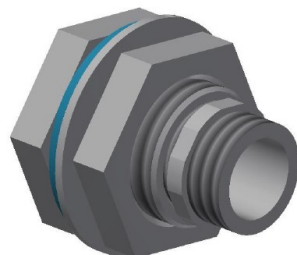


Designed & Installed by:
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Independence, MO 64055

For:
Crash Champions Lees Summit
451 SE Oldham Rd
Lees Summit, MO 64081

Amerex Fire Suppression System Specifications

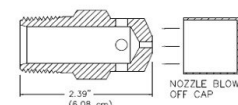
QUICK SEAL CORNER PULLY ADAPTER



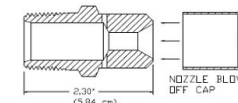
P/N 22279 - EMT THREAD - HOLE SIZE 1-1/8" DIA.

This listed mechanical bulkhead fitting provides a close connection to a CPS corner pulley. The close coupling of the two assist in alignment of the conduit run to a detection bracket.

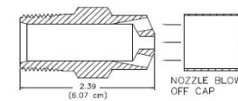
IS DISCHARGE NOZZLES



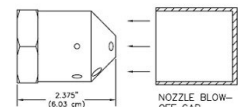
Three-Way Nozzle (P/N 16174)
This nozzle is specifically tailored for certain Vehicle Paint Spray Booth Plenum hazards (see Chapter 3A).



Duct and Plenum (D/P) Nozzle (P/N 16190)
This nozzle is designed to protect exhaust ducts and certain plenums in Vehicle and Open Front Spray Booths (see Chapter 3A).



Screening (SCR) Nozzle (P/N 16192)
This nozzle is designed to protect the opening of the Work Area in an Open Front Spray Booth (see Chapter 3A).



Total Flood, Perimeter, TFP (P/N 17809)
This nozzle is designed to protect the Work Area in a Vehicle Paint Spray Booth. It is also used in Total Flood applications. It is to be installed at the upper perimeter of the module being protected. The TFP nozzle contains a 1" FPT as opposed to the 1/2" FPT as found on all the other IS nozzles (see Chapter 3A).



Designed & Installed by:
Allstate Fire Company
1030 W 23rd Suite G
Independence, MO 64055

For:
Crash Champions Lees Summit
451 SE Oldham Rd
Lees Summit, MO 64081

Fire Suppression System Design Specifications

Notes

- A plastic cap which covers the nozzle tip to keep grease, dirt, or foreign material from plugging the orifice.
- The Industrial Dry Chemical Fire Suppression System has been installed in accordance with NFPA 17, NFPA 33, and the local I.M.C. Codes.
- The Industrial Dry Chemical Fire Suppression System has been evaluated by Underwriters Laboratories (UL) in accordance with the specific test protocol found in the UL1254 Standard (Pre-Engineered Dry Chemical System Units).
- All Electric work to be performed by the customer's Licensed Electrician.
- Exhaust Fan - VPSB required to shut down prior to discharge.
- Fire Suppression System to be tied into by the customer's Licensed Fire Alarm Company.
- Fittings are Schedule 40, 150# BMI.
- This Fire Suppression System has been designed so the customer can add additional coverage, if needed, in the future.
- Pipe is Schedule 40, 1" (black, chrome or stainless steel) pipe.
- Pipe is Schedule 40, 3/4" (black, chrome or stainless steel) pipe.
- Piping Requirements: Piping diagrams include limitations on pipe length and fittings. System piping must be balanced. Balanced piping is that in which the difference between the shortest actual pipe length from the 1" tee to the nozzle and the longest actual pipe length from the 1" tee to the nozzle does not exceed 10% of the actual pipe length from tee to nozzle. The number and type of fittings for both tee to nozzle sections must be equal.
- Remote pull station shall be 48" above finished floor and in the path of egress.
- System shall have manual and automatic methods of actuation.
- Upon activation of system all electrical & fuel must shut down.

System Materials

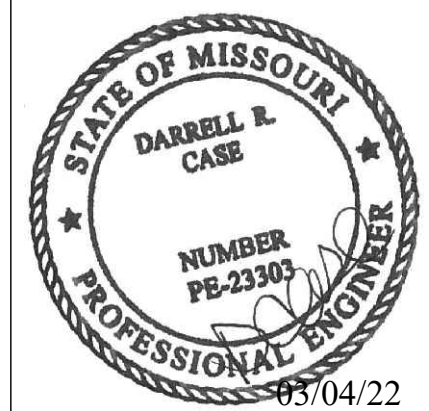
Item Number	Description	Flow	Qty
16172	Total Flood (TF)	9.0	9
16174	Three-Way (3WAY)	2.0	2
16190	Duct and Plenum (DP)	4.0	4
16208	AGENT CYLINDER ASY 6" IS45AB		2
16207	AGENT CYLINDER ASY 6" IS35AB		3
16225	JOB LINK QUICK RESPONSE (200		14
12328	FUSIBLE LINK (360 F / 182 C)		2
16226	JOB LINK QUICK RESPONSE (286		2
12326	FUSIBLE LINK (212 F / 100 C)		1
18001	MRM - Mechanical Release Module		2
11993	Manual Pull Station - English - Recta		2
12856	Nitrogen Cylinder - 10 in(3)		2
10147	Pneumatic Control Head		5
12508	Detector Bracket Assembly - Includes		18
16235	Compression Seal - 3/4" EMT		12
22279	Quick Seal Corner Pulley Adapter - Fi		12
18252	Quick Seal - 1" Pipe		2
16386	Alarm Bell 6" 115 VAC		1
15765	Mechanical Time Delay		2

Total Flow Points: 15.0



Designed & Installed by:
Allstate Fire Company
1030 W 23rd Suite G
Independence, MO 64055

For:
Crash Champions Lees Summit
451 SE Oldham Rd
Lees Summit, MO 64081



REVISIONS

No.	Description	Date

PAINT BOOTH
SPECIFICATIONS

Project #

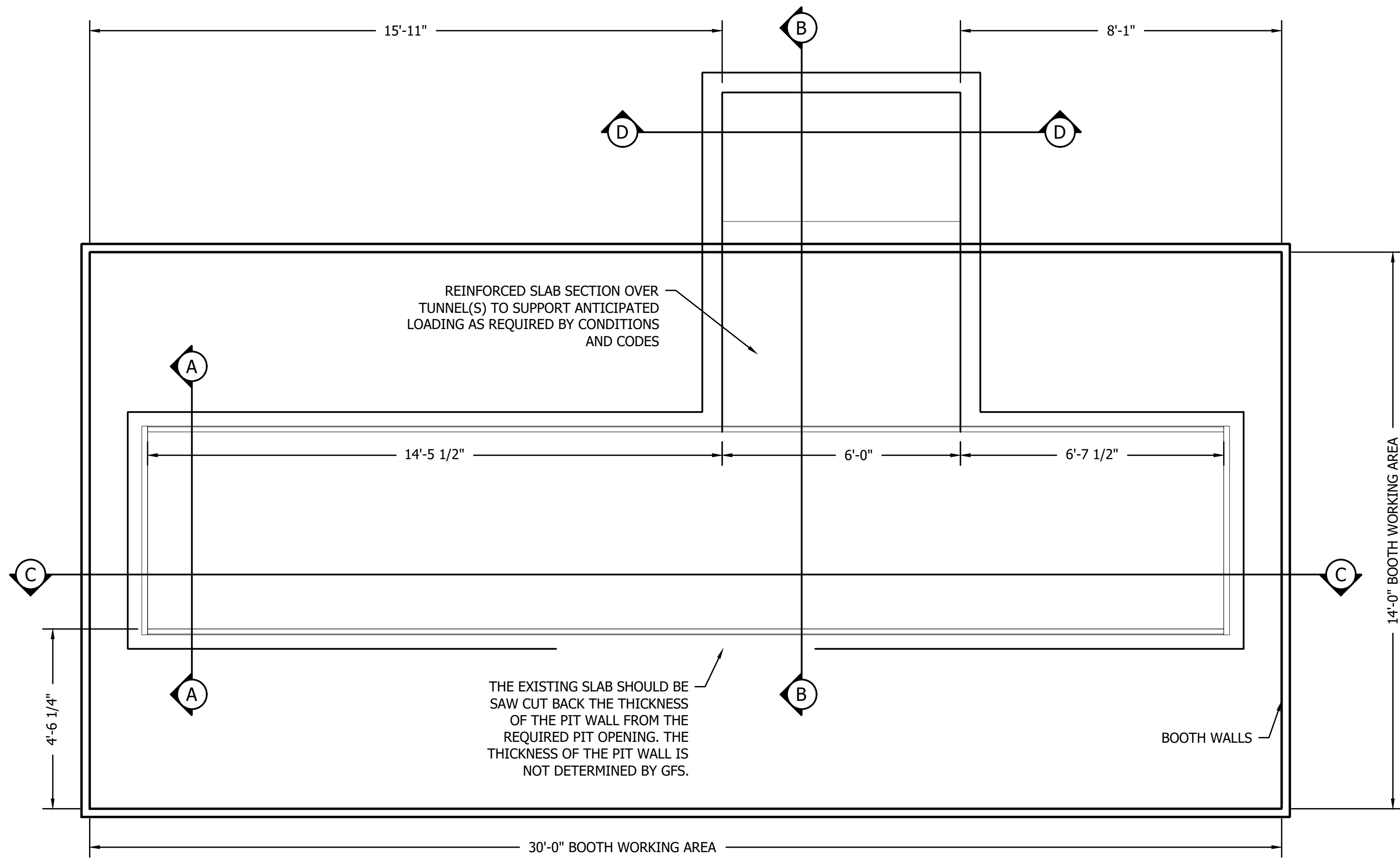
Issue Date

Drawn by

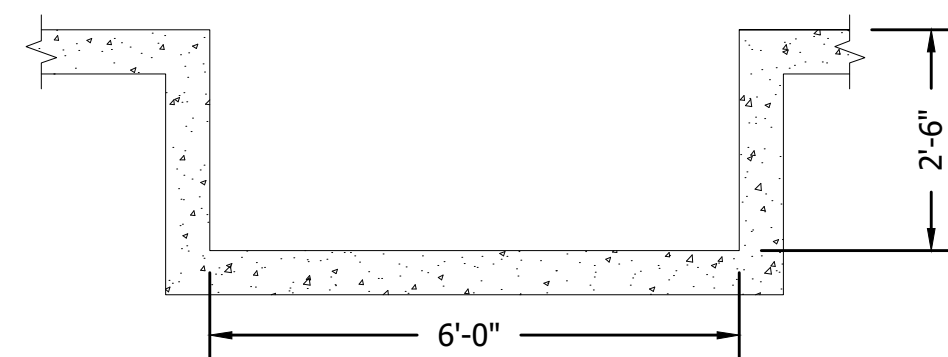
Checked by

M2

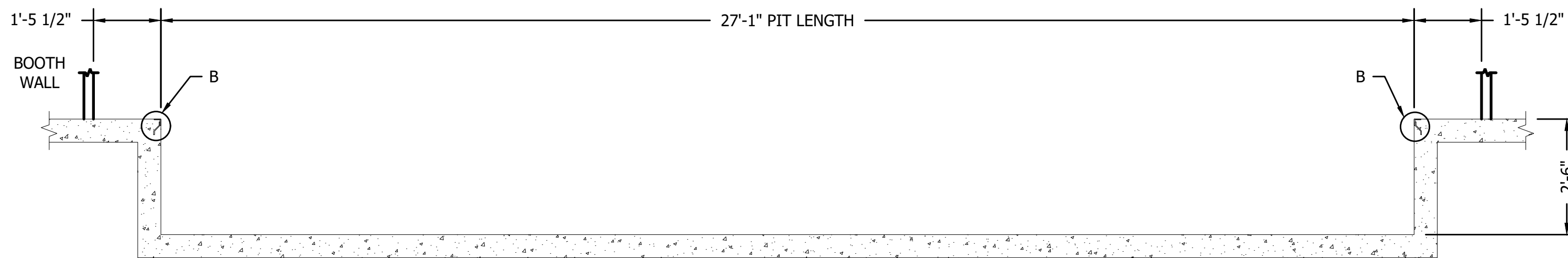
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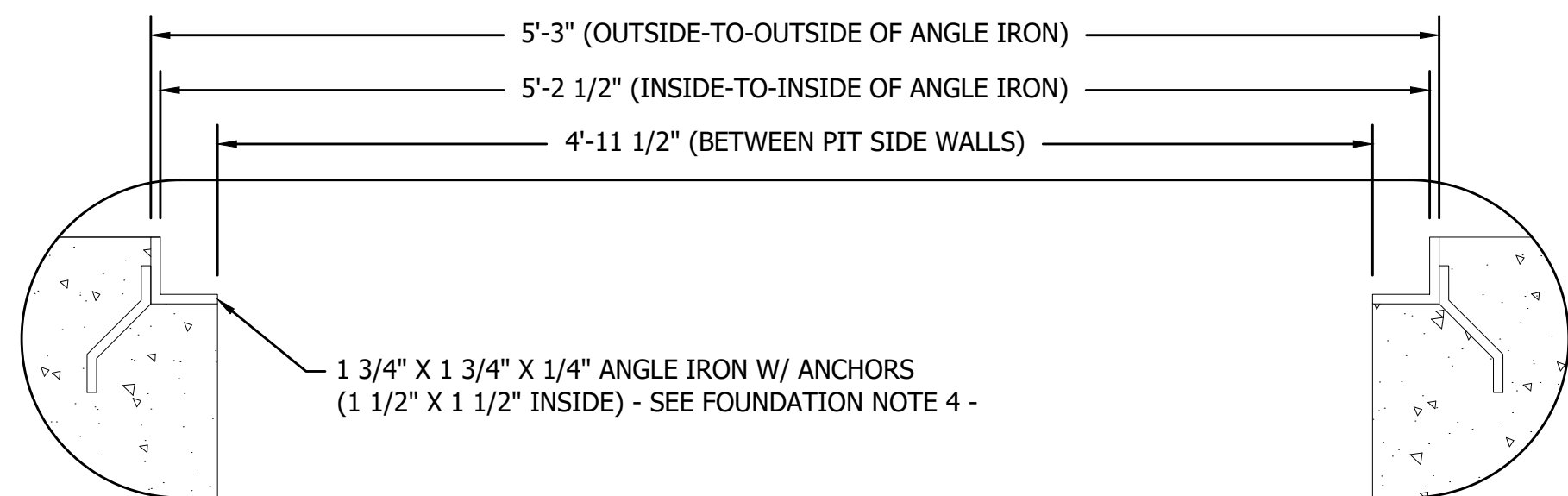
PLAN VIEW



SECTION D - D

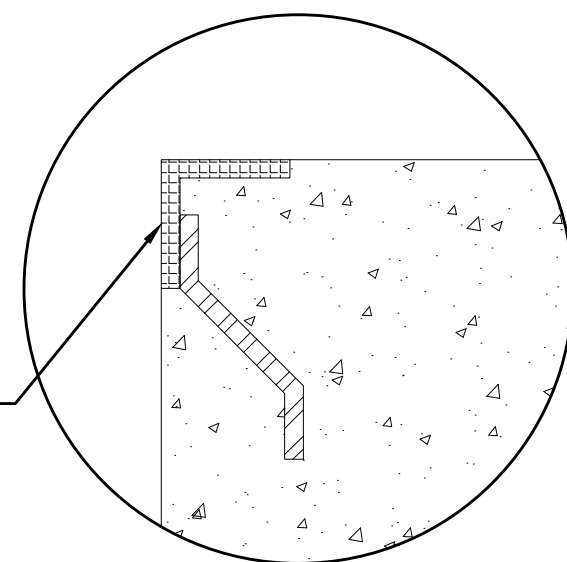


SECTION C - C

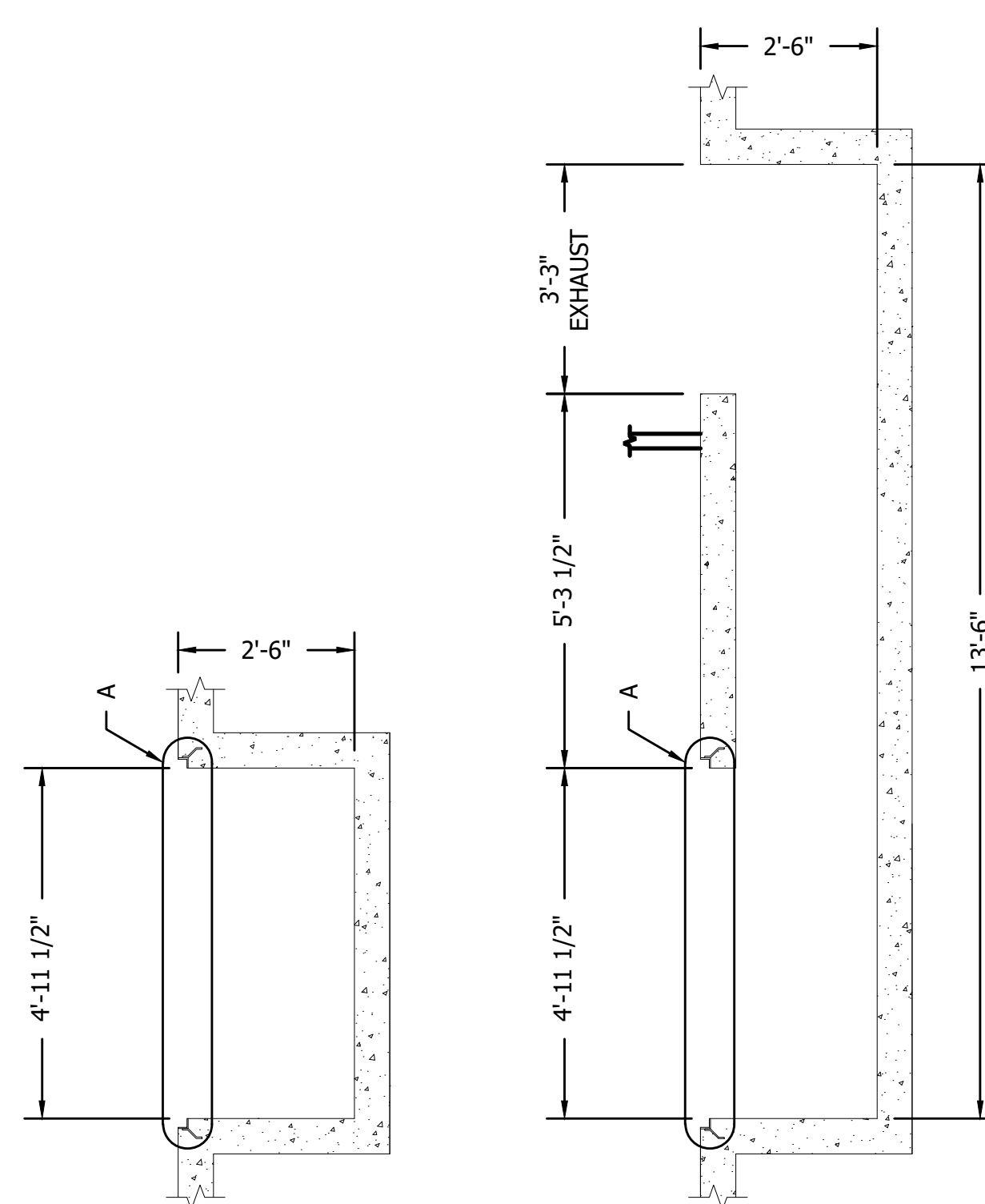


DETAIL A

1 3/4" X 1 3/4" X 1/4"
ANGLE IRON WITH ANCHORS
(TYP FOR DETAIL VIEW B)
- SEE FOUNDATION NOTE 4 -



DETAIL B



SECTION A - A

SECTION B - B

FOUNDATION NOTES

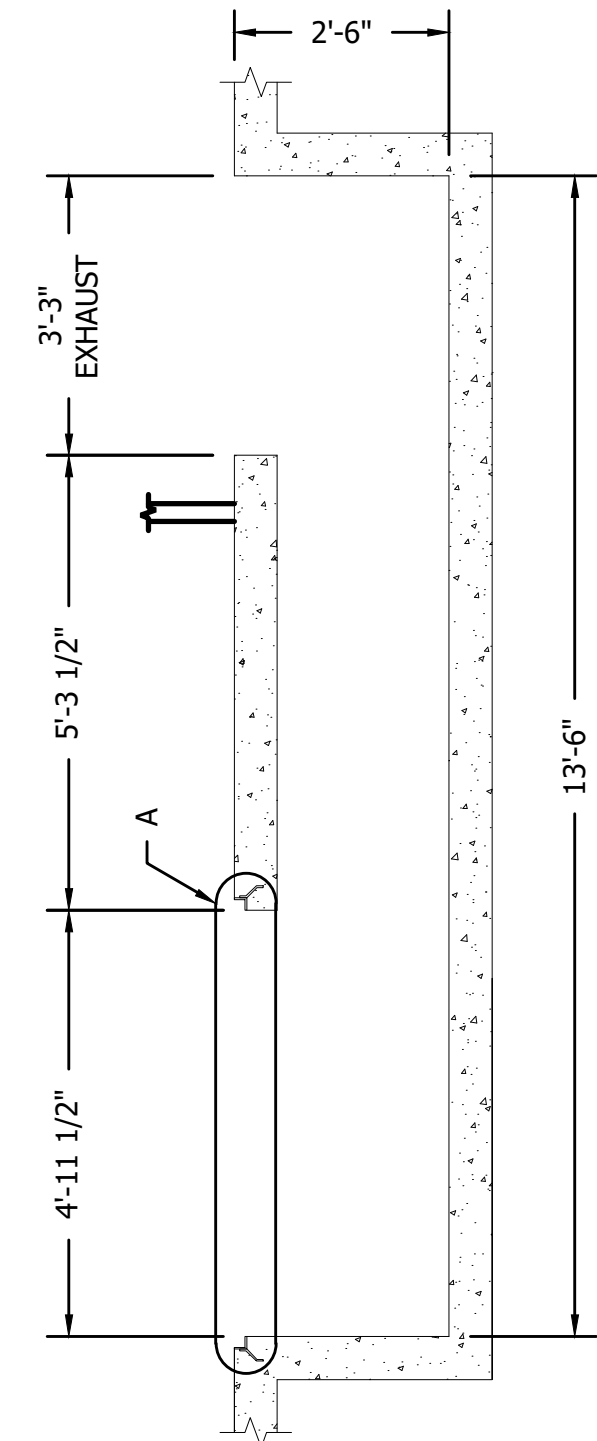
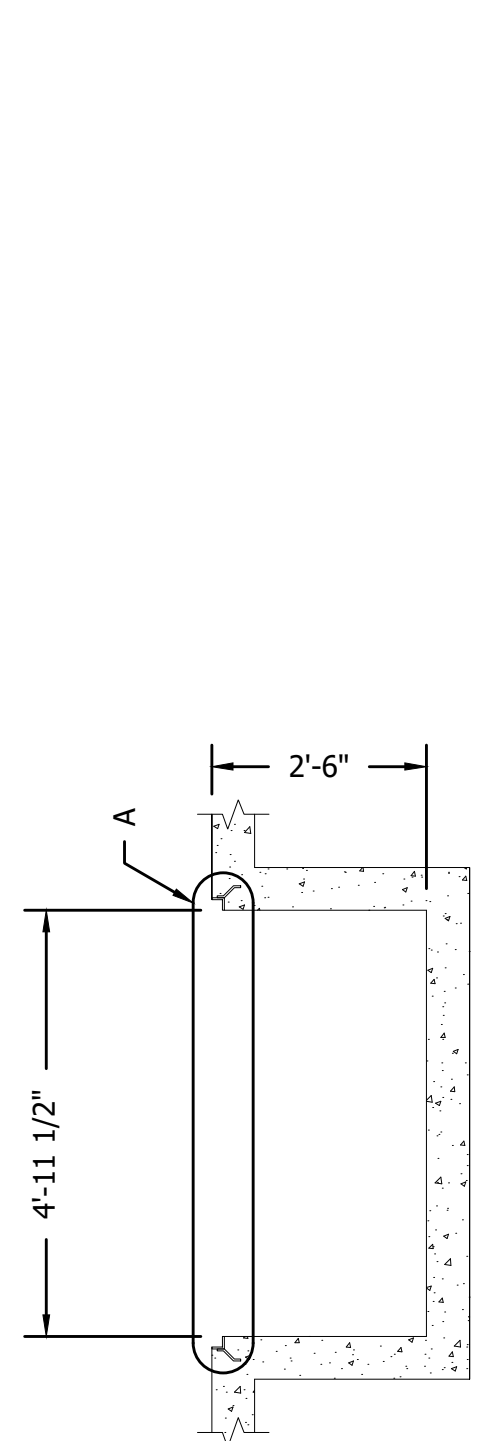
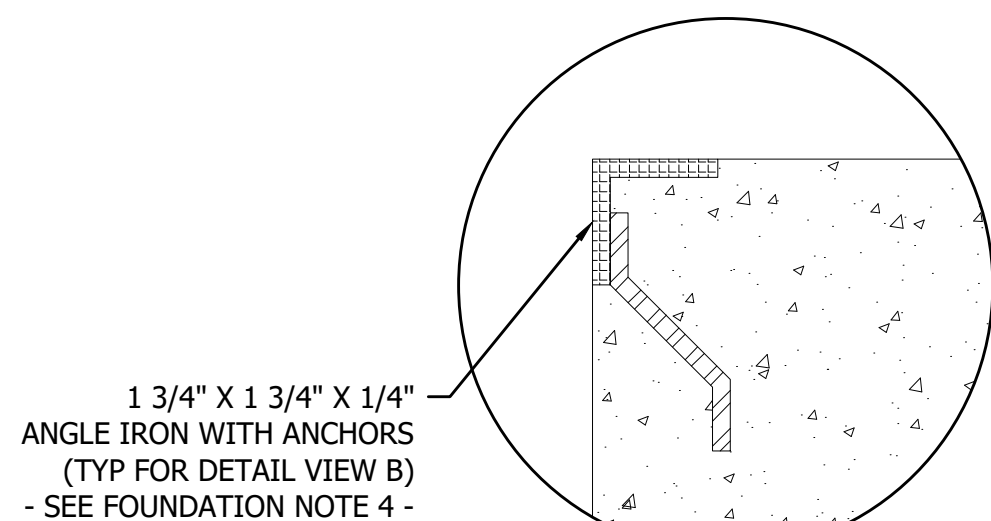
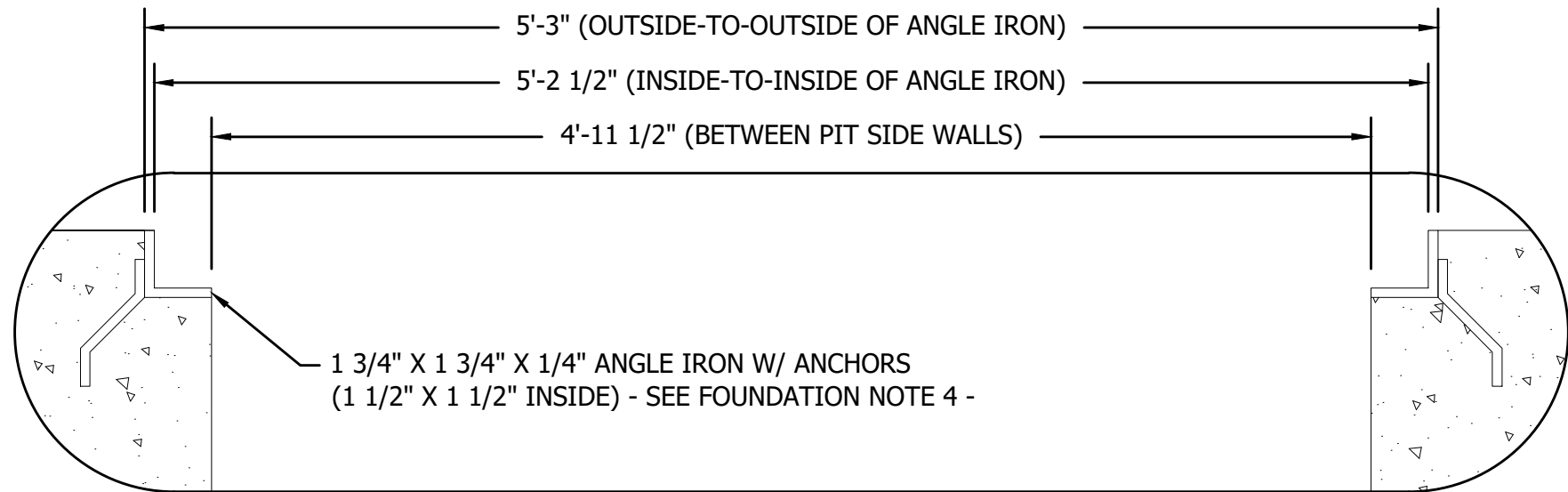
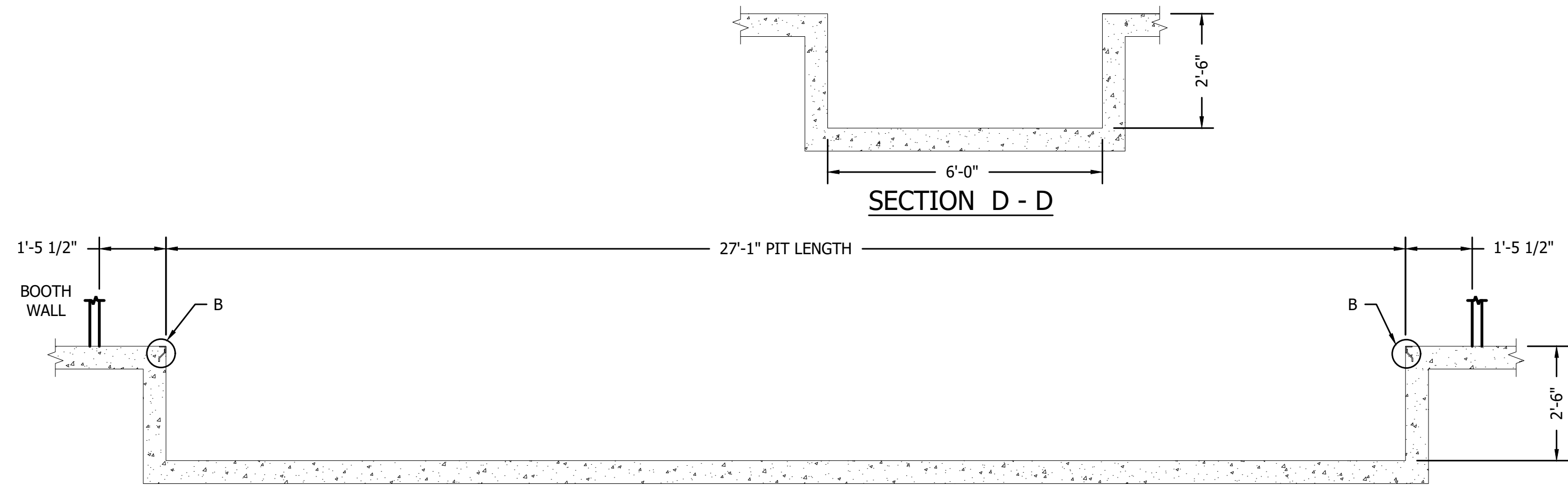
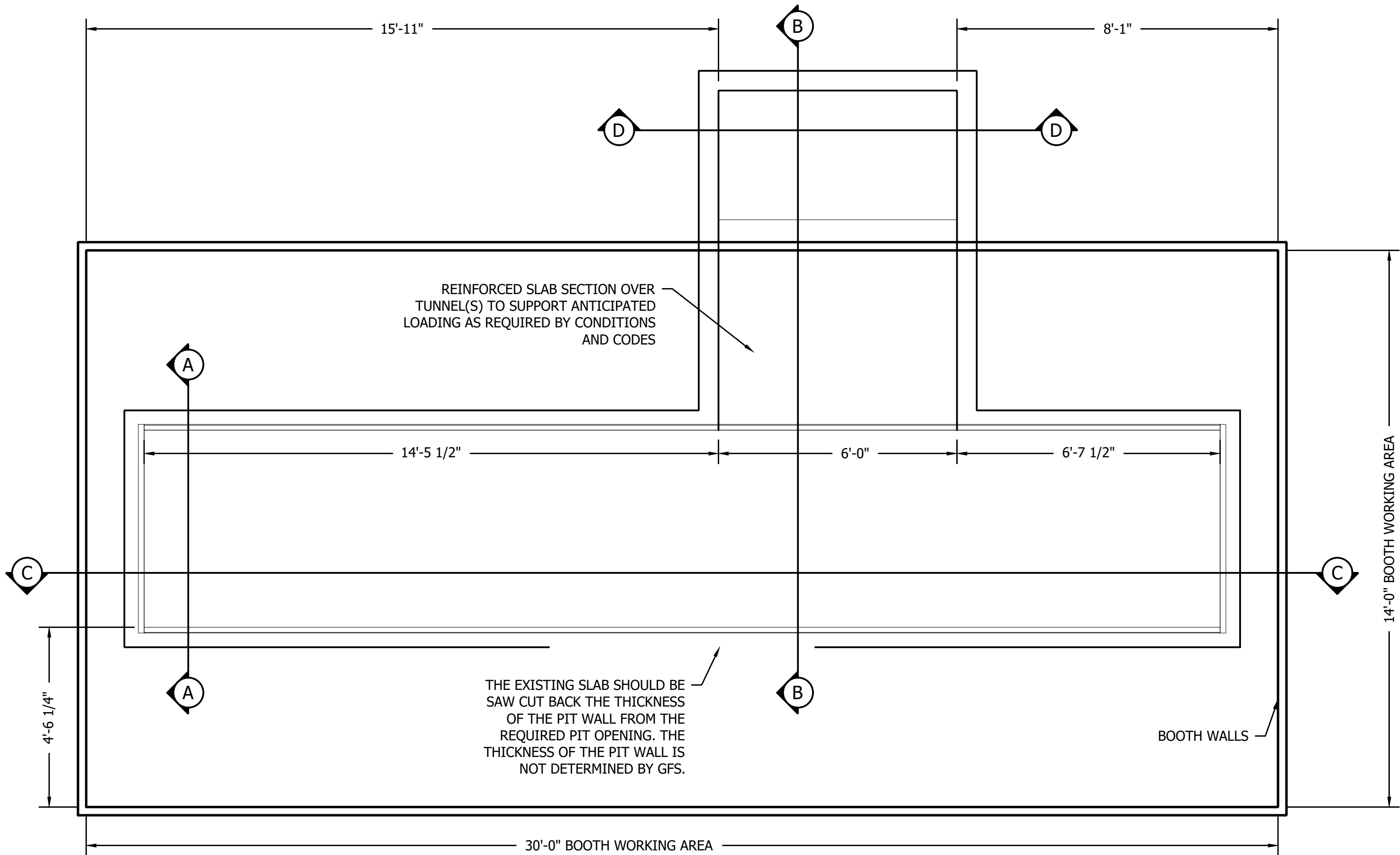
- CONTRACTOR SHALL VERIFY THAT THERE ARE NO INTERFERENCES BETWEEN EXISTING FOUNDATION (FTG. PADS, CON. FTGS, GRADE BEAM, TIES, ETC) AND PROPOSED PIT FOUNDATION.
- DO NOT PLACE BACKFILL AGAINST WALL UNTIL THE WALL HAS BEEN ADEQUATELY SHORED.
- WALL LOCATIONS TO BE WITHIN 1/4" OF DIMENSIONS SHOWN.
- ALL ANGLE IRON HAS BEEN SHOWN AS A REFERENCE, SHOULD BE IN THE SCOPE OF THE FOUNDATION DESIGN, AND PROVIDED BY OTHERS. ADJUSTMENTS MUST BE MADE FOR ANGLE THICKNESS THAT VARY FROM 1/4" AS SHOWN IN DETAIL A.
- THE DESIGN OF THE PIT GRATING AND ITS CAPACITY HAS BEEN PROVIDED IN A TABLE. DO NOT EXCEED THE WHEEL LOAD CAPACITY OF THE GRATING AS PROVIDED BY GFS. WHEELED VEHICLES WITH URETHANE TIRES SHOULD NEVER BE USED.
- GRATINGS MUST BE INSTALLED WITH CROSS BARS ON TOP SIDE.
- NOTCHING OF BEARING BARS AT SUPPORTS TO MAINTAIN PROPER ELEVATION IS GENERALLY NOT RECOMMENDED. IF NOTCHING IS REQUIRED FOR INSTALLATION, MANUFACTURER SHOULD BE CONSULTED.
- METAL SHOULD ALWAYS BE USED FOR ALL GRATING SUPPORTS.
- A MINIMUM OF 1" BEARING SHALL BE PROVIDED FOR ALUMINUM AND LIGHT DUTY STEEL GRATING. FOR HEAVY DUTY STEEL GRATING, 1" MINIMUM BEARING SHALL BE PROVIDED FOR BEARING BAR DEPTHS UP TO 2-1/4", AND 2" MINIMUM BEARING SHALL BE PROVIDED FOR DEPTHS OF 2-1/2" AND OVER. THIS BEARING SURFACE DOES NOT INCLUDE THE SUPPORT ANGLE FILLET RADIUS.
- ALL DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE. CUSTOMER MUST CHECK EQUIPMENT SIZE, LOCATION IN BUILDING AND ALL CLEARANCES TO BUILDING AND CONTENTS.
- DEPTH DIMENSIONS ARE BASED ON HAVING A 6" SLAB OVER THE EXHAUST TUNNEL. IF STRUCTURAL ANALYSIS INDICATES THAT A THICKER SLAB IS REQUIRED, PIT DEPTH SHOULD BE INCREASED ACCORDINGLY AND GFS NOTIFIED SO TALLER PIT RAILS CAN BE PROVIDED.

BAR GRATING SPECIFICATION	
BAR SIZE (in)	1 - 1/2 x 3/16
TYPE	LIGHT DUTY
MAX WHEEL LOAD (lbs)	1,850
W SERIES	19-W-4
* BASED ON A CONTACT LENGTH OF 9" (IE 11 BARS/FT OF GRATING WIDTH) AND A MAXIMUM CLEAR SPAN OF 2'-4 1/2"	

REVISIONS		
No.	Description	Date

PAINT BOOTH
SPECIFICATIONS

Project #
Issue Date
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Checked by
M3
Scale



FOUNDATION NOTES

- CONTRACTOR SHALL VERIFY THAT THERE ARE NO INTERFERENCES BETWEEN EXISTING FOUNDATION (FTG. PADS, CON. FTGS, GRADE BEAM, TIES, ETC) AND PROPOSED PIT FOUNDATION.
- DO NOT PLACE BACKFILL AGAINST WALL UNTIL THE WALL HAS BEEN ADEQUATELY SHORED.
- WALL LOCATIONS TO BE WITHIN 1/4" OF DIMENSIONS SHOWN.
- ALL ANGLE IRON HAS BEEN SHOWN AS A REFERENCE, SHOULD BE IN THE SCOPE OF THE FOUNDATION DESIGN, AND PROVIDED BY OTHERS. ADJUSTMENTS MUST BE MADE FOR ANGLE THICKNESS THAT VARY FROM 1/4" AS SHOWN IN DETAIL A.
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- ALL DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE. CUSTOMER MUST CHECK EQUIPMENT SIZE, LOCATION IN BUILDING AND ALL CLEARANCES TO BUILDING AND CONTENTS.
- DEPTH DIMENSIONS ARE BASED ON HAVING A 6" SLAB OVER THE EXHAUST TUNNEL. IF STRUCTURAL ANALYSIS INDICATES THAT A THICKER SLAB IS REQUIRED, PIT DEPTH SHOULD BE INCREASED ACCORDINGLY AND GFS NOTIFIED SO TALLER PIT RAILS CAN BE PROVIDED.

BAR GRATING SPECIFICATION	
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* BASED ON A CONTACT LENGTH OF 9" (IE 11 BARS/FT OF GRATING WIDTH) AND A MAXIMUM CLEAR SPAN OF 2'-4 1/2"	

2. DUCT SUPPORT NOT SUPPLIED OR DESIGNED BY GFS. EQUIPMENT IS NOT DESIGNED TO SUPPORT DUCT. DUCT SUPPORTS SHALL BE DESIGNED TO RELIEVE THE EQUIPMENT OF ALL DUCT LOAD.



Ø34" INTAKE

Ø34" EXHAUST

Ø34" INTAKE

Ø34" EXHAUST

96 Merus Court
t. Louis, MO 63026
T 636.349.1600
F 636.349.1730
CERTIFICATE OF AUTHORITY NO. 001498

544 MAE COURT
FENTON, MO 63026



PAINT BOOTH

REVISIONS

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PAINT BOOTH SPECIFICATIONS

Issue Date

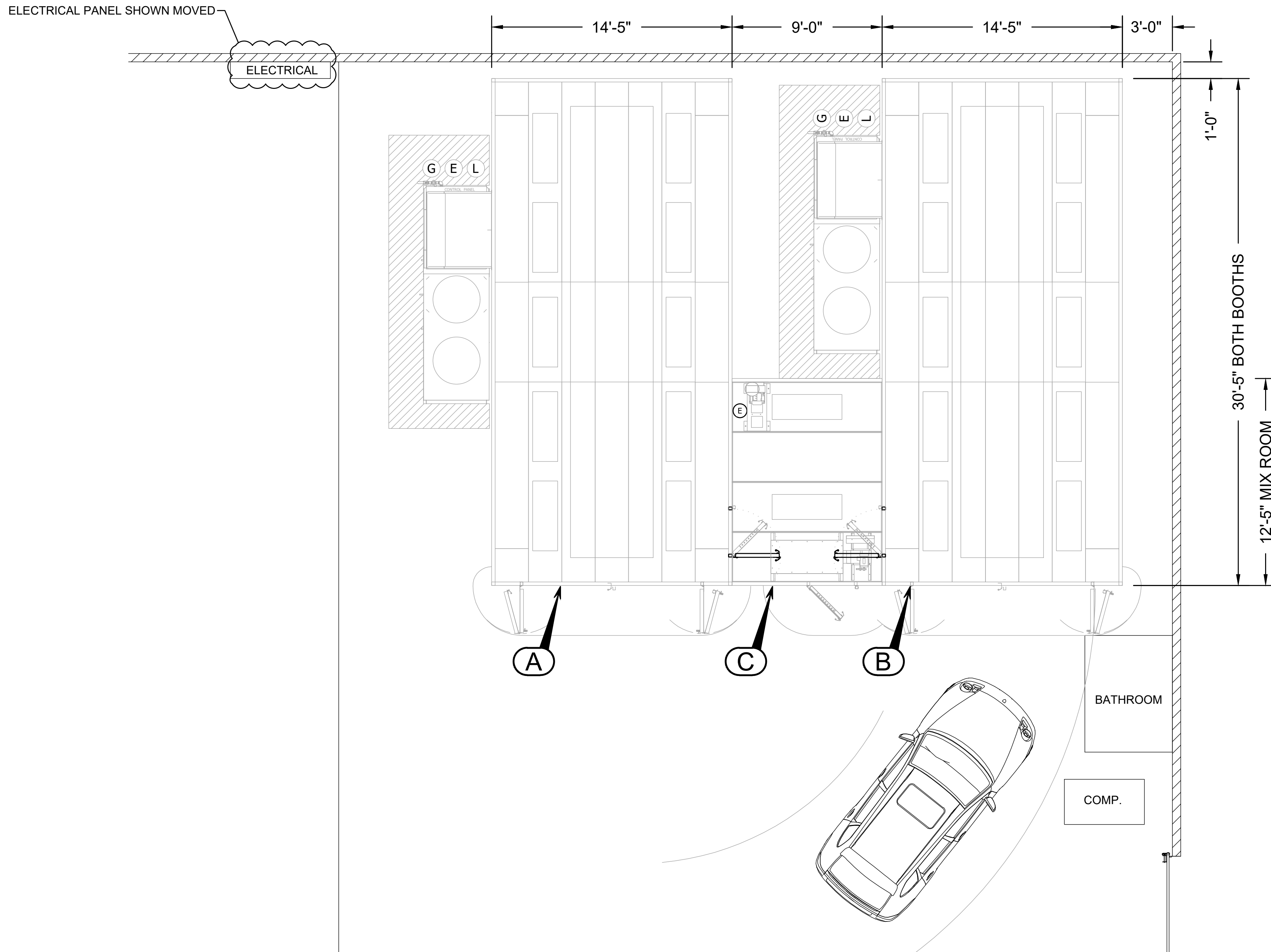
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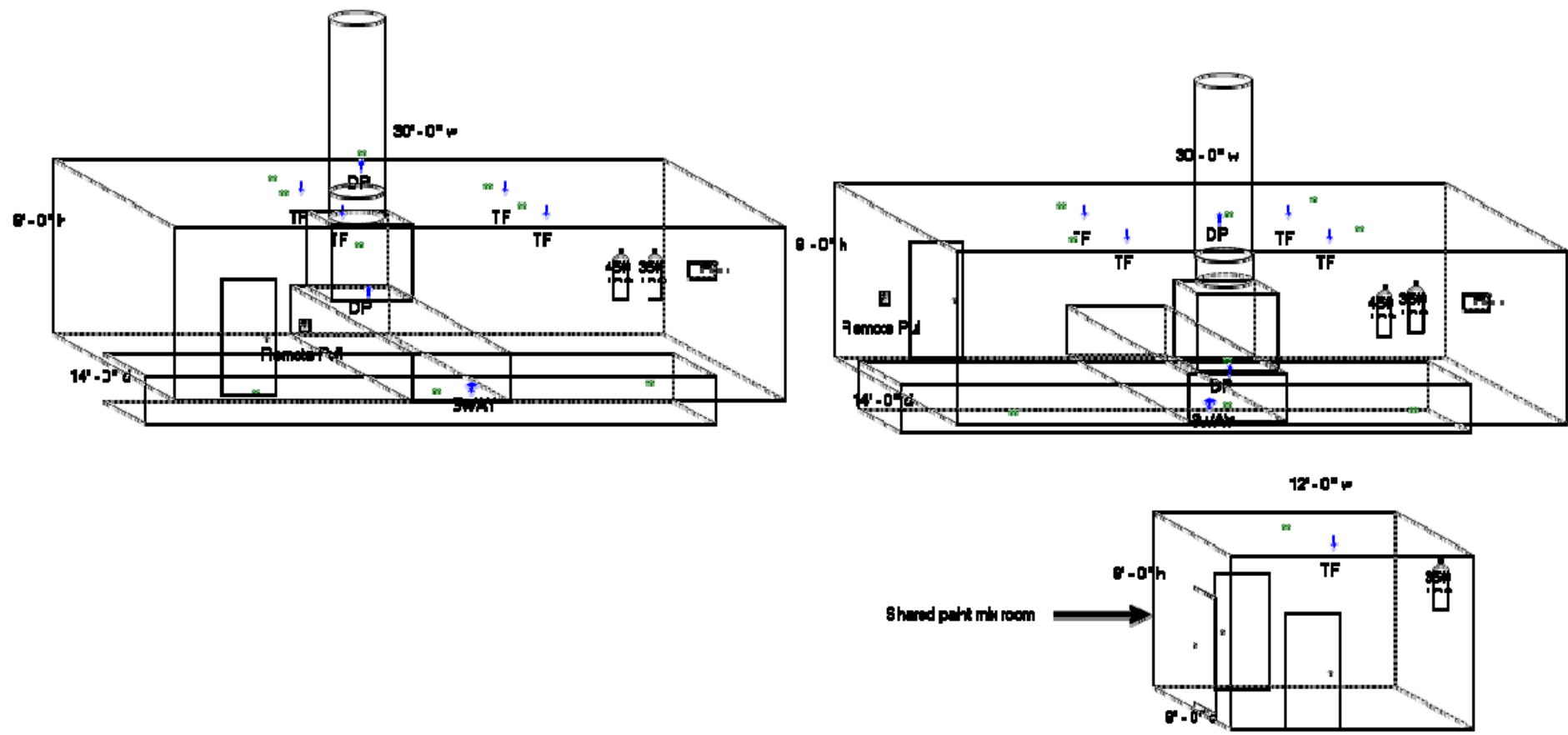
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1. GAS SUPPLY REQUIRED (BY OTHERS) TO GAS CONNECTION POINT (G).
MINIMUM GAS PRESSURE IS REQUIRED AT MAXIMUM VOLUME CONSUMED.
MINIMUM CIRCUIT CAPACITY IS REQUIRED (BY OTHERS) TO CONNECTION POINT (E).
LIGHTING CIRCUIT IS REQUIRED (BY OTHERS) TO CONNECTION POINT (L).
2. THE EQUIPMENT DEPICTED IN THIS DRAWING HAS NOT BEEN APPROVED FOR OUTDOOR APPLICATIONS. IN THE EVENT THAT SUCH APPLICATIONS AND/OR USES ARE CONTEMPLATED, THE PURCHASER OF THE EQUIPMENT IS RESPONSIBLE FOR NOTIFYING GFS SO THAT ADDITIONAL STRUCTURAL ANALYSIS CAN BE PERFORMED AND THE NECESSARY MODIFICATIONS CAN BE DETERMINED.
3. DUCT SUPPORT NOT SUPPLIED OR DESIGNED BY GFS. EQUIPMENT IS NOT DESIGNED TO SUPPORT DUCT. DUCT SUPPORTS SHALL BE DESIGNED TO RELIEVE THE EQUIPMENT OF ALL DUCT LOAD.



<div><div>A</div><div>ULTRA XL DOWNDRAFT BOOTH 30'L x 14'W x 12'H INSIDE</div></div>	AIR HEATER							MOTOR MINIMUM CIRCUIT CAPACITY						LIGHTING CIRCUIT			<div><div>C</div><div>ULTRA XD MIX ROOM 12'L x 9'W x 9'H INSIDE</div></div>	ELECTRICAL REQUIREMENTS												
	MAX AIR FLOW RATE (CFM)	INTAKE / EXHAUST MOTOR (HP)	FUEL	MAX FIRING RATE (BTU/HR)	MIN INLET PRESS. AT MAX FIRING RATE (INWC)	MAX INLET PRESS. (PSI)	TEMP. RISE (°F)	INLET PIPE SIZE NPT (IN)	MOTOR SPECIFICATIONS		FULL LOAD AMP DRAW /MINIMUM CIRCUIT CAPACITY				QUANTITY OF LIGHT FIXTURES (4-TUBE, 6-TUBE, STD OR LED)	SINGLE PHASE MINIMUM CIRCUIT CAPACITY (AMPS)			ELECTRICAL DEVICE	MOTOR	FULL LOAD AMP DRAW	MINIMUM CIRCUIT CAPACITY								
									15HP INTAKE, 15HP EXHAUST		230V 1PH	208V 3PH	230V 3PH	480V 3PH		575V 3PH														
	15205	15 / 15	NATURAL GAS	1512605	13.0	5.0	91	1 1/4	NO ADVANCE CURE					44.0 / 55.0		16		120V	277V		EXHAUST FAN & INTAKE FAN	FAN MOTOR (EACH)	1/2HP, 120V, 1PH	9.8	30 AMP					
PROPANE			1323529	5.0	80												30	20	LIGHT FIXTURES			120V / 277V	1.0 / 0.5 (EACH)							
AIR HEATER							MOTOR MINIMUM CIRCUIT CAPACITY									LIGHTING CIRCUIT														
<div><div>B</div><div>ULTRA XD DOWNDRAFT BOOTH 30'L x 14'W x 9'H INSIDE</div></div>	MAX AIR FLOW RATE (CFM)	INTAKE / EXHAUST MOTOR (HP)	FUEL	MAX FIRING RATE (BTU/HR)	MIN INLET PRESS. AT MAX FIRING RATE (INWC)	MAX INLET PRESS. (PSI)	TEMP. RISE (°F)	INLET PIPE SIZE NPT (IN)								MOTOR SPECIFICATIONS		FULL LOAD AMP DRAW /MINIMUM CIRCUIT CAPACITY				QUANTITY OF LIGHT FIXTURES (4-TUBE, 6-TUBE, STD OR LED)	SINGLE PHASE MINIMUM CIRCUIT CAPACITY (AMPS)							
									15HP INTAKE, 15HP EXHAUST		230V 1PH	208V 3PH	230V 3PH	480V 3PH	575V 3PH															
	15205	15 / 15	NATURAL GAS	1512605	13.0	5.0	91	1 1/4	NO ADVANCE CURE					44.0 / 55.0		16	120V	277V												
			PROPANE	1323529	5.0		80																		30	20				

Amerex Pre-Engineered Fire Suppression System



SCALE

1 foot



Designed & Installed by:
Allstate Fire Company
1030 W 23rd Suite G
Independence, MO 64055
816-463-2672

For:
Crash Champions Lees Summit
451 SE Oldham Rd
Lees Summit, MO 64081

Job: New Fire Sysetm

Date: 6/23/2022

Stamp

Fire Suppression System Design Specifications

Notes

- A plastic cap which covers the nozzle tip to keep grease, dirt, or foreign material from plugging the orifice.
- The Industrial Dry Chemical Fire Suppression System has been installed in accordance with NFPA 17, NFPA 33, and the local I.M.C. Codes.
- The Industrial Dry Chemical Fire Suppression System has been evaluated by Underwriters Laboratories (UL) in accordance with the specific test protocol found in the UL1254 Standard (Pre-Engineered Dry Chemical System Units).
- All Electric work to be performed by the customer's Licensed Electrician.
- Exhaust Fan - VPSB required to shut down prior to discharge.
- Fire Suppression System to be tied into by the customer's Licensed Fire Alarm Company.
- Fittings are Schedule 40, 150# BMI.
- This Fire Suppression System has been designed so the customer can add additional coverage, if needed, in the future.
- Pipe is Schedule 40, 1" (black, chrome or stainless steel) pipe.
- Pipe is Schedule 40, 3/4" (black, chrome or stainless steel) pipe.

System Materials

Item Number	Description	Flow	Qty
16172	Total Flood (TF)	9.0	9
16174	Three-Way (3WAY)	2.0	2
16190	Duct and Plenum (DP)	4.0	4
16208	AGENT CYLINDER ASY 1/2" IS45ABC		2
16207	AGENT CYLINDER ASY 1/2" IS35ABC		3
16225	JOB LINK QUICK RESPONSE (200 F / 93 C)		14
12328	FUSIBLE LINK (360 F / 182 C)		2
16226	JOB LINK QUICK RESPONSE (286 F / 141 C)		2
12326	FUSIBLE LINK (212 F / 100 C)		1
18001	MRM - Mechanical Release Module		2
11993	Manual Pull Station - English - Rectangular		2
12856	Nitrogen Cylinder - 10 in(3)		2
10147	Pneumatic Control Head		5
12508	Detector Bracket Assembly - Includes Bracket, Linkage & Con		18
16235	Compression Seal - 3/4" EMT		12
22279	Quick Seal Corner Pulley Adapter - Fits CP5		12
18252	Quick Seal - 1" Pipe		2
16386	Alarm Bell 6" 115 VAC		1
15765	Mechanical Time Delay		2

Total Flow Points: 15.0



Designed & Installed by:
Allstate Fire Company
1030 W 23rd Suite G
Independence, MO 64055

For:
Crash Champions Lees Summit
451 SE Oldham Rd
Lees Summit, MO 64081

Fire Suppression System Design Specifications

Notes

- Piping Requirements: Piping diagrams include limitations on pipe length and fittings. System piping must be balanced. Balanced piping is that in which the difference between the shortest actual pipe length from the 1" tee to the nozzle and the longest actual pipe length from the 1" tee to the nozzle does not exceed 10% of the actual pipe length from tee to nozzle. The number and type of fittings for both tee to nozzle sections must be equal.
- Remote pull station shall be 48" above finished floor and in the path of egress.
- System shall have manual and automatic methods of actuation.
- Upon activation of system all electrical & fuel must shut down.

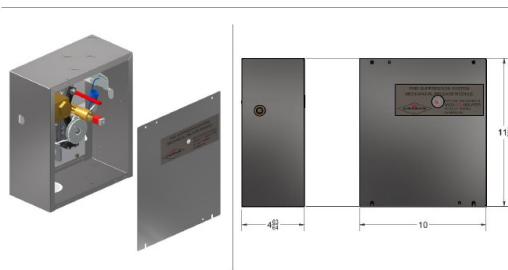


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Allstate Fire Company
1030 W 23rd Suite G
Independence, MO 64055

For:
Crash Champions Lees Summit
451 SE Oldham Rd
Lees Summit , MO 64081

Amerex Fire Suppression System Specifications

MECHANICAL RELEASE MODULE



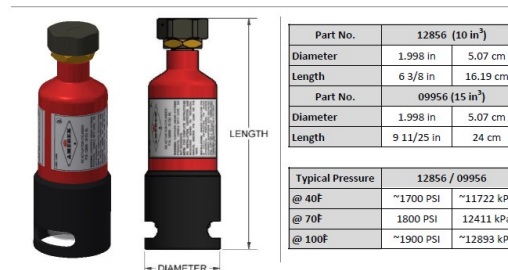
P/N: 18001

The new MRM combines the same features and functionality as the original MRM along with increased detection capabilities and far simpler means of setting the detection cable tension. The slide plate and collapsible column are now Teflon coated. The MRM is available in the above configurations, now preinstalled in its own enclosure.

Setting the detection cable tension does not require the use of any tools (once the cable is locked down into the large, knurled ratchet wheel). A large lever to the right of the ratchet wheel is used to increase the cable tension. Alignment of the bottom edge of the lever with markings on a label indicates when the proper tension has been achieved. Lowering cable tension to change out detection links is now also much simpler.

There is also a MRM available without the enclosure, P/N 11977. This has the same purpose and functionality as the MRM (P/N 18001). It is often used in conjunction with the Single

NITROGEN ACTUATION CYLINDERS



P/N: 12856 / 09956

The N2 Actuation Cylinder supplies nitrogen gas pressure to the Agent Cylinder Discharge Valve through the actuation network for the purpose of opening the Agent Cylinder. Each Actuation Cylinder is charged to 1800 psig (12410 kPa) at 70°F (21°C).

The 10 in³ N2 Actuation Cylinder (P/N 12856) contains enough nitrogen to actuate up to ten total of Models 275 / 375 / 475 Agent Cylinders Assemblies in any combination. A total of six Model 600 Agent Cylinders Assemblies OR a total of six Agent Cylinders when the mix contains at least one Model 600 Agent Cylinder Assemblies.

The 15 in³ N2 Actuation Cylinder (P/N 09956) contains enough nitrogen to actuate up to ten total of Models 275 / 375 / 475 & 600 Agent Cylinders Assemblies in any combination.

A Replacement Rupture Disc (P/N 09958) is available for both cylinders for use by certified

FUSIBLE / JOB LINK DETECTOR BRACKET

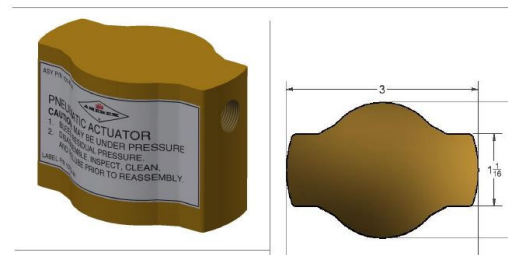


P/N: 12508

Each Detector Bracket in the AMEREX KP System is comprised of three parts: the Detector Bracket, Detector Linkage and two EMT fittings. The fusible link is ordered separately. The bracket serves as support for the linkage and is attached to a rigid surface. The linkage supports the fusible link and a continuous cable run under tension. At a predetermined temperature the fusible link will separate, relieving tension on the cable and actuating the

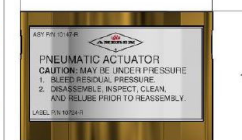


KP600 PNEUMATIC ACTUATOR



P/N: 10147

The Pneumatic Actuator is required for every pneumatically actuated. KP600 Agent Cylinder Assembly. The actuator is bolted directly to the top of the agent cylinder discharge valve. When actuation occurs at the MRM or PRM, the pneumatic pressure from the nitrogen cylinder enters the actuator through 1/4" NPT threaded ports on either side. The actuation pressure forces the piston inside to extend and depress the valve stem of the discharge valve. Resetting is easier than the previous discontinued

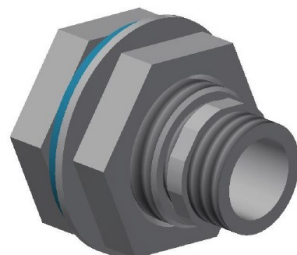


Designed & Installed by:
Allstate Fire Company
1030 W 23rd Suite G
Independence, MO 64055

For:
Crash Champions Lees Summit
451 SE Oldham Rd
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Amerex Fire Suppression System Specifications

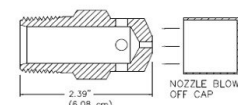
QUICK SEAL CORNER PULLY ADAPTER



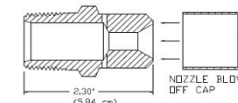
P/N 22279 - EMT THREAD - HOLE SIZE 1-1/8" DIA.

This listed mechanical bulkhead fitting provides a close connection to a CPS corner pulley. The close coupling of the two assist in alignment of the conduit run to a detection bracket.

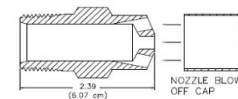
IS DISCHARGE NOZZLES



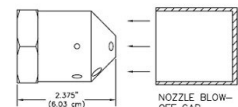
Three-Way Nozzle (P/N 16174)
This nozzle is specifically tailored for certain Vehicle Paint Spray Booth Plenum hazards (see Chapter 3A).



Duct and Plenum (D/P) Nozzle (P/N 16190)
This nozzle is designed to protect exhaust ducts and certain plenums in Vehicle and Open Front Spray Booths (see Chapter 3A).



Screening (SCR) Nozzle (P/N 16192)
This nozzle is designed to protect the opening of the Work Area in an Open Front Spray Booth (see Chapter 3A).



Total Flood, Perimeter, TFP (P/N 17809)
This nozzle is designed to protect the Work Area in a Vehicle Paint Spray Booth. It is also used in Total Flood applications. It is to be installed at the upper perimeter of the module being protected. The TFP nozzle contains a 1" FPT as opposed to the 1/2" FPT as found on all the other IS nozzles (see Chapter 3A).



Designed & Installed by:
Allstate Fire Company
1030 W 23rd Suite G
Independence, MO 64055

For:
Crash Champions Lees Summit
451 SE Oldham Rd
Lees Summit, MO 64081

Fire Suppression System Design Specifications

Notes

- A plastic cap which covers the nozzle tip to keep grease, dirt, or foreign material from plugging the orifice.
- The Industrial Dry Chemical Fire Suppression System has been installed in accordance with NFPA 17, NFPA 33, and the local I.M.C. Codes.
- The Industrial Dry Chemical Fire Suppression System has been evaluated by Underwriters Laboratories (UL) in accordance with the specific test protocol found in the UL1254 Standard (Pre-Engineered Dry Chemical System Units).
- All Electric work to be performed by the customer's Licensed Electrician.
- Exhaust Fan - VPSB required to shut down prior to discharge.
- Fire Suppression System to be tied into by the customer's Licensed Fire Alarm Company.
- Fittings are Schedule 40, 150# BMI.
- This Fire Suppression System has been designed so the customer can add additional coverage, if needed, in the future.
- Pipe is Schedule 40, 1" (black, chrome or stainless steel) pipe.
- Pipe is Schedule 40, 3/4" (black, chrome or stainless steel) pipe.
- Piping Requirements: Piping diagrams include limitations on pipe length and fittings. System piping must be balanced. Balanced piping is that in which the difference between the shortest actual pipe length from the 1" tee to the nozzle and the longest actual pipe length from the 1" tee to the nozzle does not exceed 10% of the actual pipe length from tee to nozzle. The number and type of fittings for both tee to nozzle sections must be equal.
- Remote pull station shall be 48" above finished floor and in the path of egress.
- System shall have manual and automatic methods of actuation.
- Upon activation of system all electrical & fuel must shut down.

System Materials

Item Number	Description	Flow	Qty
16172	Total Flood (TF)	9.0	9
16174	Three-Way (3WAY)	2.0	2
16190	Duct and Plenum (DP)	4.0	4
16208	AGENT CYLINDER ASY 6" IS45AB		2
16207	AGENT CYLINDER ASY 6" IS35AB		3
16225	JOB LINK QUICK RESPONSE (200		14
12328	FUSIBLE LINK (360 F / 182 C)		2
16226	JOB LINK QUICK RESPONSE (286		2
12326	FUSIBLE LINK (212 F / 100 C)		1
18001	MRM - Mechanical Release Module		2
11993	Manual Pull Station - English - Recta		2
12856	Nitrogen Cylinder - 10 in(3)		2
10147	Pneumatic Control Head		5
12508	Detector Bracket Assembly - Includes		18
16235	Compression Seal - 3/4" EMT		12
22279	Quick Seal Corner Pulley Adapter - Fi		12
18252	Quick Seal - 1" Pipe		2
16386	Alarm Bell 6" 115 VAC		1
15765	Mechanical Time Delay		2

Total Flow Points: 15.0



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APPLY UNLESS NOTED ON DRAWINGS. IN CASE OF
CONFLICT BETWEEN GSN, DETAILS AND PLANS, THE
GREATER REQUIREMENTS GOVERN.

BOOTH AND EQUIPMENT HAS BEEN DESIGNED BASED ON THE CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE

S1 = 0.068

 $S_d1=0.109$

LIGHT-FRAMED WALLS WITH SHEAR PANELS OF ALL OTHER MATERIALS

SEISMIC RESPONSE COEFFICIENT; $C_s=0.054$

EQUIVALENT LATERAL FORCE PROCEDURE

(PORTIONS OF EQUIPMENT THAT IS OUTDOOR ONLY - IE STACKS AND STANDS)

EXPOSURE: C

LATERAL LIVE LOAD: 5 PSF

DEAD LOADS: SELF-WEIGHT OF STRUCTURAL STEEL

- 3.2 PSF (ROOF)
- 5.7 PSF (WALLS)
- 2.5 PSF (PLENUM)

BOOTH ROOF LIVE LOADS: N/A PSF

LIVE LOADS: 300 LBS AT MIDPOINT OF FRAME BEAM

CAPACITY OF THE FOUNDATION/SLAB TO SUPPORT GFS BOOTHS AND EQUIPMENT IS NOT THE RESPONSIBILITY OF GFS.

- ANCHORS INDICATED ARE BASED ON ASSUMPTIONS OF EXISTING CONDITIONS (LISTED BELOW). THESE ASSUMPTIONS ARE MADE IN ORDER FOR GFS TO PROVIDE ANCHOR BOLT HOLES IN THE BASE PLATES AND PANELS. EXISTING CONDITIONS SHOULD BE VERIFIED BY THE OWNER AND ANY DEVIATIONS SHOULD BE CONVEYED TO GFS PRIOR TO FABRICATION.

1/4" SCREW ANCHOR - 1/4" POWERS (DEWALT) SCREW-BOLT+ SCREW ANCHORS EMBEDDED 1 1/2" PER ICC ESR-3889 TO SECURE PANELS TO CONCRETE. IN LIEU OF THE POWERS (DEWALT) ANCHOR, 1/4" HILTI KWIK HUS-Z SCREW ANCHORS EMBEDDED 1 1/2" PER ICC ESR-3027 MAY BE USED. EACH WALL/BAY IS REQUIRED TO HAVE ANCHORS AT 18" O.C. MAX. UNLESS NOTED OTHERWISE. EACH WALL SHALL HAVE (1) ANCHOR 6" MAXIMUM FROM END OR CORNER AND A MINIMUM OF (2) ANCHOR PER WALL/BAY. INSTALL ANCHORS PER MANUFACTURER'S RECOMMENDATION. SEE DETAILS FOR ADDITIONAL INFORMATION. A PREAPPROVED ANCHOR WITH A CAPACITY EQUAL TO OR GREATER THAN THE SPECIFIED ANCHOR AND WITH A CURRENT ICC REPORT MAY BE USED IN LIEU OF THE ANCHOR SPECIFIED. ALL OTHER RESTRICTIONS (INCLUDING BUT NOT LIMITED TO EDGE DISTANCE AND EMBEDMENT) SHALL BE CONSIDERED.

3/8" WEDGE ANCHOR - 3/8" POWERS (DEWALT) POWER-STUD+ SD1 WEDGE ANCHORS EMBEDDED 2" MINIMUM PER ICC ESR-2818. FOR OUTDOOR USE, USE 3/8" POWERS (DEWALT) POWER-STUD+ SD4 WEDGE ANCHORS EMBEDDED 2" MINIMUM PER ICC ESR-2502. IN LIEU OF THE POWERS (DEWALT) ANCHOR, 3/8" HILTI KWIK BOLT TZ WEDGE ANCHORS EMBEDDED 2" MINIMUM PER ICC ESR-1917 MAY BE USED. STAINLESS STEEL HILTI KWIK BOLT TZ SHALL BE USED FOR OUTDOOR CONDITIONS. SEE DETAILS FOR NUMBER OF ANCHORS REQUIRED AND ADDITIONAL INFORMATION. INSTALL ANCHORS PER MANUFACTURER'S RECOMMENDATION. A PREAPPROVED ANCHOR WITH A CAPACITY EQUAL TO OR GREATER THAN THE SPECIFIED ANCHOR AND WITH A CURRENT ICC REPORT MAY BE USED IN LIEU OF THE ANCHOR SPECIFIED. ALL OTHER RESTRICTIONS (INCLUDING BUT NOT LIMITED TO EDGE DISTANCE AND EMBEDMENT) SHALL BE CONSIDERED.

ANCHOR SPECIFICATION IS BASED ON THE FOLLOWING

ASSUMPTIONS OF EXISTING CONDITIONS:

- MINIMUM CONCRETE COMPRESSIVE STRENGTH IS 2500 PSI.
-- MINIMUM SLAB DEPTH IS 4".
-- MINIMUM SLAB DEPTH FOR PAINT KITCHEN IS 6".

ALL COLD-FORMED STEEL MEETS THE REQUIREMENTS OF THE LATEST EDITION OF THE AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS. ALL COLD-FORMED STEEL IS COMMERCIAL GRADE WITH A YIELD STRENGTH OF 24 KSI AND AN ULTIMATE STRENGTH OF 40 KSI.

ALL STRUCTURAL STEEL FABRICATION AND CONSTRUCTION
COMPLY WITH THE LATEST AISC HANDBOOKS AND CODES.
ALL STEEL IS ASTM A36, EXCEPT AS FOLLOWS:

- WIDE FLANGE SECTIONS - ASTM A992,
- PIPE SECTIONS - ASTM A53 GRADE B,
- HSS SECTIONS - ASTM A500 GRADE B
- BOLTS ARE A325-N AND SHALL BE SNUG-TIGHTENED.

WELDERS HOLD CURRENT VALID CERTIFICATES AND HAVE CURRENT EXPERIENCE IN TYPE OF WELD CALLED FOR. STRUCTURAL STEEL WELDING WITH LOW HYDROGEN TYPE, E70 AND E60 FOR LIGHT GAUGE STEEL. STRUCTURAL STEEL WELDING CONFORMS TO THE "STRUCTURAL WELDING CODES-STEEL" AWS D1.1, CURRENT EDITION.

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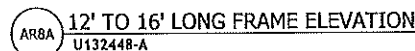
OSSEO, WI 54758 USA

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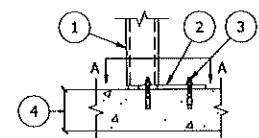
Digitally signed by
DANIEL M GEORGE
Date: 2021.10.18
08:02:30 -05'00'

MODEL INFO GSN-NOTES GENERAL STRUCTURAL NOTES		SCALE NTS DRAWN BY DAT DATE 10/13/2021 REVIEW BY DAT REVIEW DATE 10/13/2021	
ORDER/SERIAL NUMBER U132448		SHIP TO CRASH CHAMPIONS LEE'S SUMMIT 451 SE OLDHAM PKWY LEE'S SUMMIT, MO 64081	
SOLD TO CRASH CHAMPIONS 601 OAKMONT LN, SUITE 400 WESTMONT, IL 60559		CRASH CHAMPIONS LEE'S SUMMIT 451 SE OLDHAM PKWY LEE'S SUMMIT, MO 64081	
DRAWING SET SD		REVISION A	
DRAWING GSN-NOTES			



-
- Technical drawing of a mechanical part with dimensions:
- Top horizontal dimensions: 1/8", 1/8", 3", 1 1/2"
 - Left vertical dimensions: 1/8", 1/8", 7/8", 1 1/2"
 - Internal dimensions: 1/8", 1/8", 1/8"
 - Bottom horizontal dimensions: 7/8", 7/8"
 - Right vertical dimensions: 9/16", 7/8", 7/8"
 - Bottom right dimension: $\varnothing 7/16$

SECTION A-A



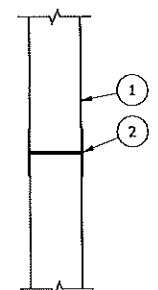
AR5A CORNER COLUMN
U132448-A

-

SECTION A-A

SECTION B-E

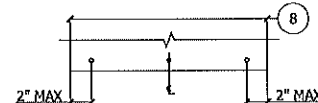
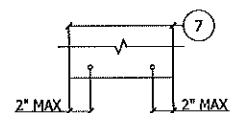
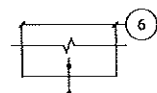
1. FRAME TOP CHORD - SEE FRAME ELEVATION FOR SIZE.
2. FRAME BOTTOM CHORD - SEE FRAME ELEVATION FOR SIZE.
3. HSS2x2x1/4 VERTICAL WEB MEMBER.
4. 3/8" PLATE WITH (5) 1/2" A325-N BOLTS.
5. FRAME WEB PLATE - SEE FRAME ELEVATION FOR THICKNESS.
6. 2" LONG HORIZONTALLY FROM FRAME WEB PLATE TO CHORD AND 2" VERTICALLY FROM FRAME WEB PLATE TO VERTICAL WEB MEMBER - CONTINUOUS THROUGH CORNER.
7. SEE BOTTOM CHORD ATTACHMENT DETAIL (AR2C), IF OCCURS, FOR CONNECTION INFORMATION.
8. SEE COLUMN SHEAR TAB DETAIL (AR4A) FOR COLUMN & SHEAR TAB INFORMATION.



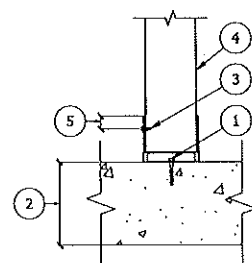
SCALE
3^d = 1st-6th

AR6A PANEL TO PANEL CONNECTION
U13244B-A,B,C

1. DUAL SKIN INSULATED PANEL.
2. H-CHANNEL - 20GA.

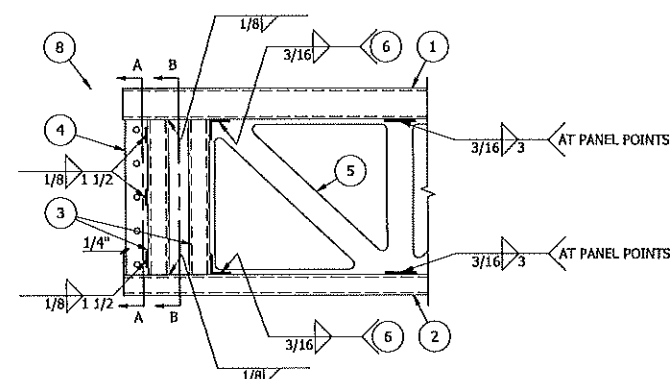


PANEL BOTTOM
ELEVATIONS



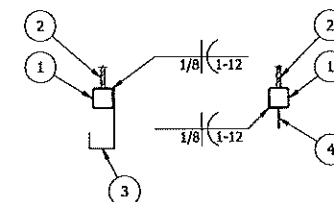
SCALE
3" = 1'-0"

AR7 BASE CHANNEL
U132448-A.B.C



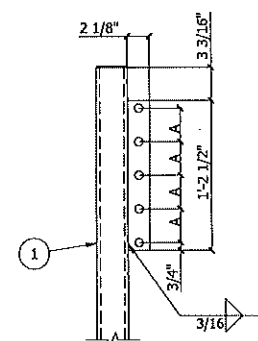
AR1A TRUSS CONNECTION TO COLUMN
U132448-A

1. FRAME BOTTOM CHORD.
2. FRAME WEB PLATE.
3. 14 GA "J"
4. 14 GA "L"



AR2C BOTTOM CHORD ATTACHMENT DETAIL
U132448-A

1. STEEL COLUMN - SEE FRAME ELEVATION FOR SIZE.
2. 3/8" PLATE.
3. "A" DIMENSION IS 3 1/4".



AR4A COLUMN SHEAR TAB
U132448-A

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MODEL INFO GSN-DETAILS STANDARD DETAILS		SCALE NTS DRAWN BY DAT DATE	
ORDER/SERIAL NUMBER U132448		10/13/2021 REVIEW BY DAT REVIEW DATE	
DRAWING SET SD		SHIP TO CRASH CHAMPIONS 601 OAKMONT LN, SUITE 400 CRASH CHAMPIONS LEE'S SUMMIT 451 SE OLDHAM PKWY LEE'S SUMMIT, MO 64081	
DRAWING GSN-DETAILS		WESTMONT, IL 60550	

THIS PAINT BOOTH IS ETL LISTED, REFERENCE ETL REPORT NUMBER 101579520CRT-001.
IT HAS BEEN REVIEWED AND FOUND TO CONFORM TO THE REQUIREMENTS OF THE FOLLOWING
STANDARDS BY INTERTEK TESTING LABORATORIES.

- NFPA 33 STANDARD FOR SPRAY APPLICATION USING FLAMMABLE OR COMBUSTIBLE MATERIALS
- NFPA 91 STANDARD FOR EXHAUST SYSTEMS FOR AIR CONVEYING OF VAPORS, GASES, MISTS
AND NONCOMBUSTIBLE PARTICULATE SOLIDS, PAINT SPRAY BOOTHS AND DRYING OVENS
- CGA CR90-003 PAINT SPRAY BOOTHS AND DRYING OVENS

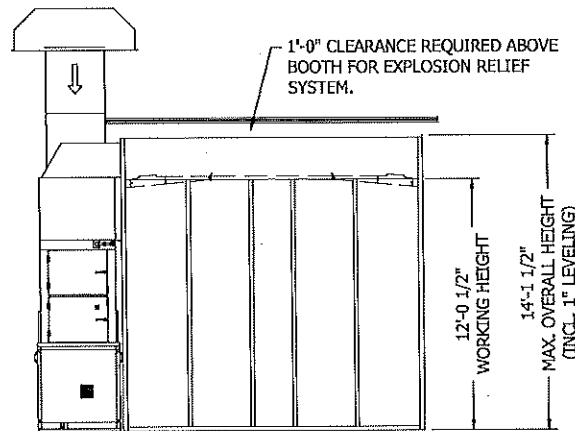
IN ADDITION TO THE ABOVE CONFORMANCES, THE PAINT BOOTH ALSO CONFORMS
TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING CODES AND STANDARDS.

- NFPA-70 NATIONAL ELECTRIC CODE
- NFPA-86 STANDARD FOR OVENS AND FURNACES
- NFPA-101 LIFE SAFETY CODE
- OSHA SAFETY AND HEALTH STANDARDS (29CFR 110, 1910.107)
- CURRENT EDITION INTERNATIONAL BUILDING CODE
- CURRENT EDITION INTERNATIONAL FIRE CODE CHAPTER 24

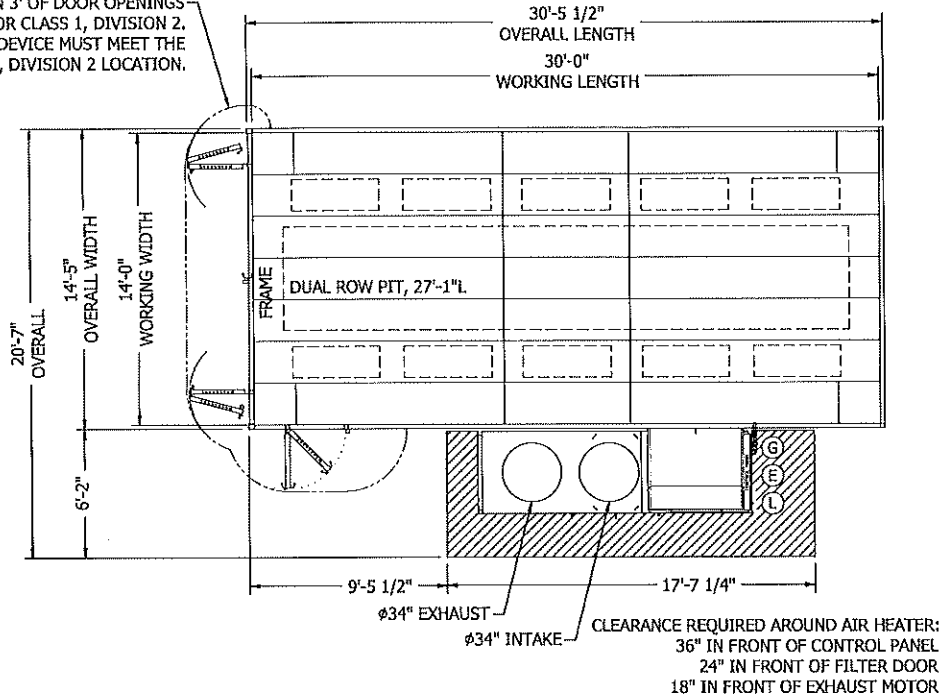
PAINT BOOTH CONSTRUCTION NOTE:

1. GAS SUPPLY REQUIRED (BY OTHERS) TO GAS CONNECTION POINT (G).
MINIMUM GAS PRESSURE IS REQUIRED AT MAXIMUM VOLUME CONSUMED.
MINIMUM CIRCUIT CAPACITY IS REQUIRED (BY OTHERS) TO CONNECTION POINT (E).
LIGHTING CIRCUIT IS REQUIRED (BY OTHERS) TO CONNECTION POINT (L).
2. PAINT BOOTH IS FABRICATED FROM 18/20 GAGE WHITE PRECOAT SHEET STEEL.
3. DUCTWORK IS FABRICATED FROM 18 GAGE G90 GALVANIZED STEEL.
4. GLASS USED IN THE PAINT BOOTH MEETS AND EXCEEDS ANSI Z-97.1 STANDARD.
5. FIRE SUPPRESSION SYSTEM IS NOT INCLUDED WITH THE STANDARD PAINT BOOTH BUT IS
REQUIRED BY NFPA-33.
6. THE EQUIPMENT DEPICTED IN THIS DRAWING HAS NOT BEEN APPROVED FOR
OUTDOOR APPLICATIONS OR FOR USE IN HIGH SEISMIC AREAS. IN THE EVENT
THAT SUCH APPLICATIONS AND/OR USES ARE CONTEMPLATED, THE
PURCHASER OF THE EQUIPMENT IS RESPONSIBLE FOR NOTIFYING GFS SO THAT
ADDITIONAL STRUCTURAL ANALYSIS CAN BE PERFORMED AND THE NECESSARY
MODIFICATIONS CAN BE DETERMINED.
7. DUCT SUPPORT NOT SUPPLIED OR DESIGNED BY GFS. EQUIPMENT IS NOT
DESIGNED TO SUPPORT DUCT. DUCT SUPPORTS SHALL BE DESIGNED TO RELIEVE
THE EQUIPMENT OF ALL DUCT LOAD.
8. EXHAUST TERMINATION POINT. PER THE INTERNATIONAL FIRE CODE, THE
TERMINATION POINT FOR EXHAUST DUCTS DISCHARGING TO THE
ATMOSPHERE SHALL NOT BE THE LESS THAN THE FOLLOWING DISTANCES:
 1. 30 FEET FROM THE LOT LINE;
 2. 10 FEET FROM OPENINGS INTO THE BUILDING;
 3. 6 FEET FROM EXTERIOR WALLS AND ROOFS;
 4. 30 FEET FROM COMBUSTIBLE WALLS OR OPENINGS INTO THE BUILDING
THAT ARE IN THE DIRECTION OF THE EXHAUST DISCHARGE;
 5. 10 FEET ABOVE ADJOINING GRADE.
9. INCLUDED BUT NOT SHOWN:
(2) Ø34" ROOF FLANGE

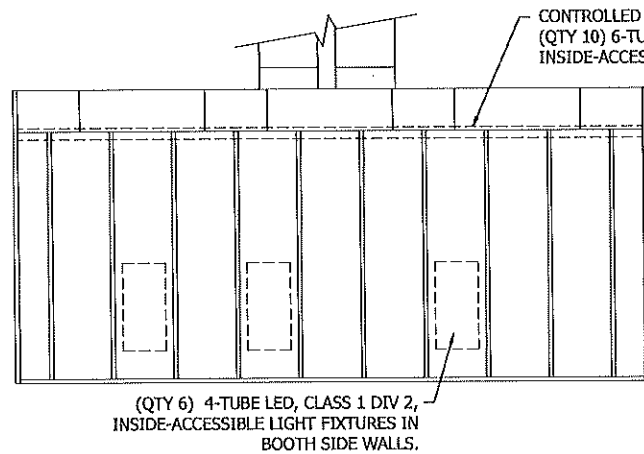
ANY DEVICE LOCATED WITHIN 3' OF DOOR OPENINGS
MUST BE LISTED FOR CLASS 1, DIVISION 2.
WIRING INSTALLATION TO THE DEVICE MUST MEET THE
REQUIREMENTS FOR A CLASS 1, DIVISION 2 LOCATION.



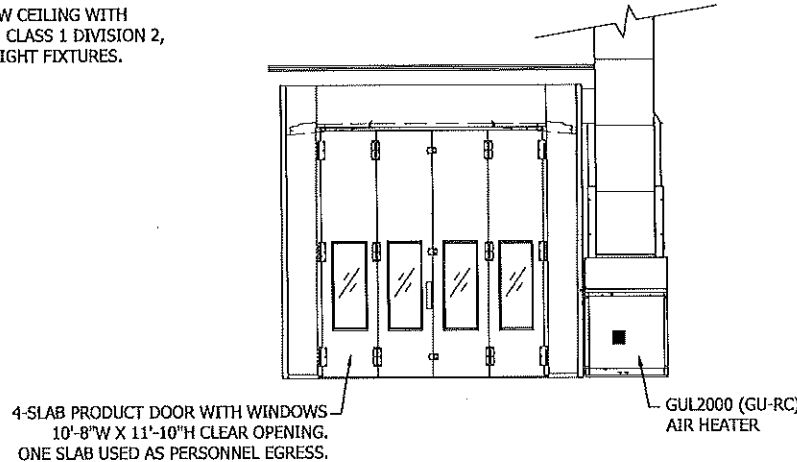
REAR ELEVATION



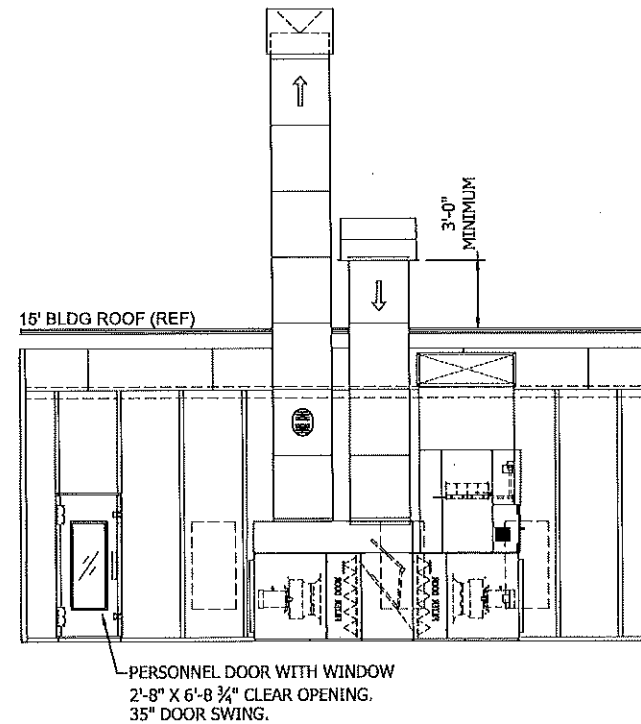
PLAN VIEW



LH SIDE ELEVATION



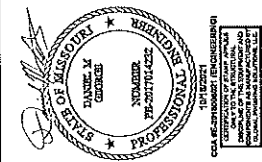
FRONT ELEVATION



RH SIDE ELEVATION

AIR HEATER							MOTOR MINIMUM CIRCUIT CAPACITY						LIGHTING CIRCUIT			ø34" STACK WEIGHTS		
MAX AIR FLOW RATE (CFM)	INTAKE / EXHAUST MOTOR (HP)	FUEL	MAX FIRING RATE (BTU/HR)	MIN INLET PRESS. AT MAX FIRING RATE (INWC)	MAX INLET PRESS. (PSI)	TEMP. RISE (°F)	INLET PIPE SIZE NPT (IN)	MOTOR SPECIFICATIONS		FULL LOAD AMP DRAW /MINIMUM CIRCUIT CAPACITY					QUANTITY OF LIGHT FIXTURES (4-TUBE, 6-TUBE, STD OR LED)	SINGLE PHASE MINIMUM CIRCUIT CAPACITY (AMPS)	DUCT	21.97 LBS/LF
								15HP INTAKE, 15HP EXHAUST	230V 1PH	208V 3PH	230V 3PH	480V 3PH	575V 3PH	FAN			198 LBS	
														MOTOR			150 LBS	
														RINGS			45 LBS/PAIR OF RINGS	
15205	15 / 15	NATURAL GAS	1512605	13.0	5.0	91	1 1/4	NO ADVANCE CURE					44.0 / 55.0			SILENCER	LBS	
		PROPANE	1323529	5.0		80										NO-LOSS	LBS	
																ARV	105 LBS	
																HOOD	115 LBS	

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SCALE	1/4"=1'-0"
DRAWN BY	DAT
DATE	10/13/2021
REVIEW BY	DAT
REVIEW DATE	10/13/2021
MODEL INFO ULTRA XD DOWNDRAFT BOOTH 30'L x 14'W x 12'H, w/ ULTRA AIR HEATER	SOLD TO CRASH CHAMPIONS 601 OAKMONT LN, SUITE 400 WESTMONT, IL 60559
	SHIP TO CRASH CHAMPIONS LEE'S SUMMIT 451 SE OLDHAM PKWY LEE'S SUMMIT, MO 64081
ORDER/SERIAL NUMBER U132448	
DRAWING SET SD	REVISION A
DRAWING A-GA	

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OSSEO, WI 54758 USA

800-848-8738
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SCALE	1/4"=1'-0"
DRAWN BY	
DAT	
DATE	10/13/2021
REVIEW BY	
DAT	
REVIEW DATE	10/13/2021

SHIP TO
CRASH CHAMPIONS LEE'S SUMMIT
451 SE OLDHAM PKWY
LEE'S SUMMIT, MO 64081

SOLD TO
CRASH CHAMPIONS
601 OAKMONT LN, SUITE 400
WESTMONT, IL 60559

ORDER/SERIAL NUMBER
U132448

DRAWING SET
SD

REVISION
A

DRAWING
B-GA

THIS PAINT BOOTH IS ETL LISTED, REFERENCE ETL REPORT NUMBER 101579520CRT-001.
IT HAS BEEN REVIEWED AND FOUND TO CONFORM TO THE REQUIREMENTS OF THE FOLLOWING
STANDARDS BY INTERTEK TESTING LABORATORIES.

- NFPA 33 STANDARD FOR SPRAY APPLICATION USING FLAMMABLE OR COMBUSTIBLE MATERIALS
- NFPA 91 STANDARD FOR EXHAUST SYSTEMS FOR AIR CONVEYING OF VAPORS, GASES, MISTS
AND NONCOMBUSTIBLE PARTICULATE SOLIDS, PAINT SPRAY BOOTHS AND DRYING OVENS
- CGA CR90-003 PAINT SPRAY BOOTHS AND DRYING OVENS

IN ADDITION TO THE ABOVE CONFORMANCES, THE PAINT BOOTH ALSO CONFORMS
TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING CODES AND STANDARDS.

- NFPA-70 NATIONAL ELECTRIC CODE
- NFPA-86 STANDARD FOR OVENS AND FURNACES
- NFPA-101 LIFE SAFETY CODE
- OSHA SAFETY AND HEALTH STANDARDS (29CFR 110, 1910.107)
- CURRENT EDITION INTERNATIONAL BUILDING CODE
- CURRENT EDITION INTERNATIONAL FIRE CODE CHAPTER 24

PAINT BOOTH CONSTRUCTION NOTE:

1. GAS SUPPLY REQUIRED (BY OTHERS) TO GAS CONNECTION POINT (G).
MINIMUM GAS PRESSURE IS REQUIRED AT MAXIMUM VOLUME CONSUMED.
MINIMUM CIRCUIT CAPACITY IS REQUIRED (BY OTHERS) TO CONNECTION POINT (E).
LIGHTING CIRCUIT IS REQUIRED (BY OTHERS) TO CONNECTION POINT (L).

2. PAINT BOOTH IS FABRICATED FROM 18/20 GAGE WHITE PRECOAT SHEET STEEL.

3. DUCTWORK IS FABRICATED FROM 18 GAGE G90 GALVANIZED STEEL.

4. GLASS USED IN THE PAINT BOOTH MEETS AND EXCEEDS ANSI Z-97.1 STANDARD.

5. FIRE SUPPRESSION SYSTEM IS NOT INCLUDED WITH THE STANDARD PAINT BOOTH BUT IS
REQUIRED BY NFPA-33.

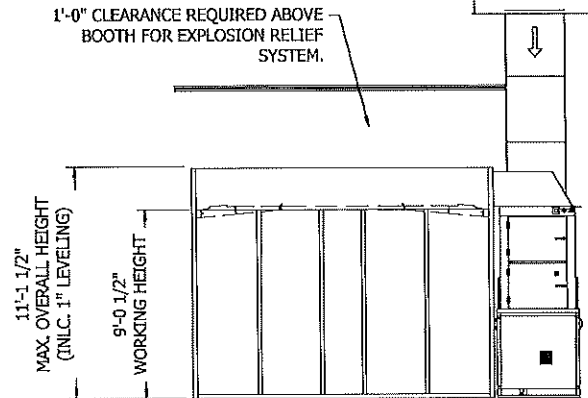
6. THE EQUIPMENT DEPICTED IN THIS DRAWING HAS NOT BEEN APPROVED FOR
OUTDOOR APPLICATIONS OR FOR USE IN HIGH SEISMIC AREAS. IN THE EVENT
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MODIFICATIONS CAN BE DETERMINED.

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THE EQUIPMENT OF ALL DUCT LOAD.

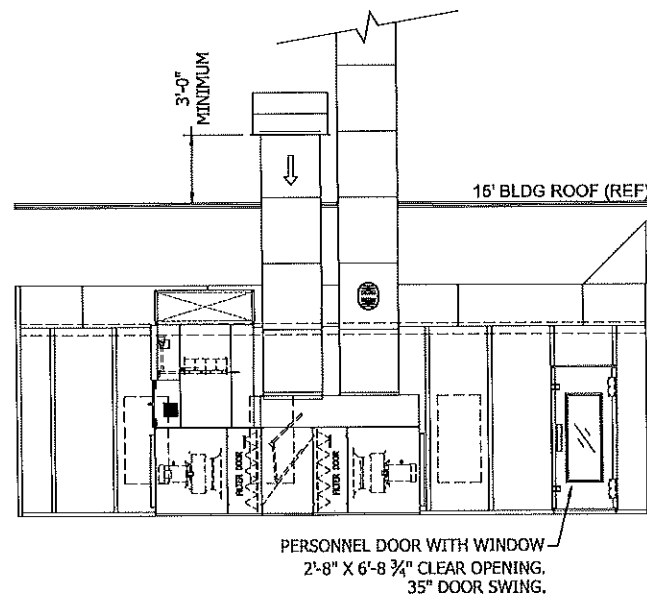
8. EXHAUST TERMINATION POINT. PER THE INTERNATIONAL FIRE CODE, THE
TERMINATION POINT FOR EXHAUST DUCTS DISCHARGING TO THE
ATMOSPHERE SHALL NOT BE THE LESS THAN THE FOLLOWING DISTANCES:

1. 30 FEET FROM THE LOT LINE;
2. 10 FEET FROM OPENINGS INTO THE BUILDING;
3. 6 FEET FROM EXTERIOR WALLS AND ROOFS;
4. 30 FEET FROM COMBUSTIBLE WALLS OR OPENINGS INTO THE BUILDING
THAT ARE IN THE DIRECTION OF THE EXHAUST DISCHARGE;
5. 10 FEET ABOVE ADJOINING GRADE.

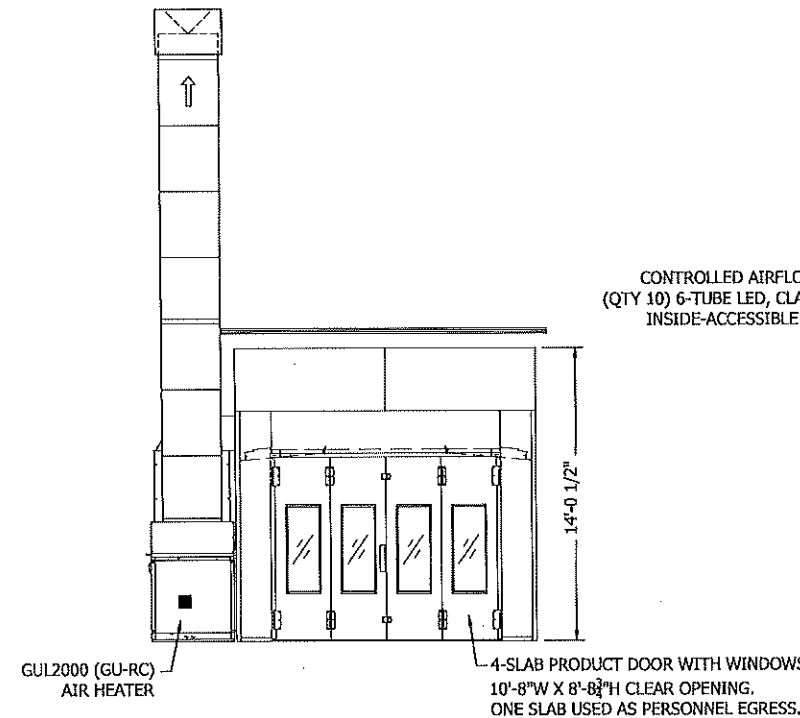
9. INCLUDED BUT NOT SHOWN:
(2) Ø34" ROOF FLANGE



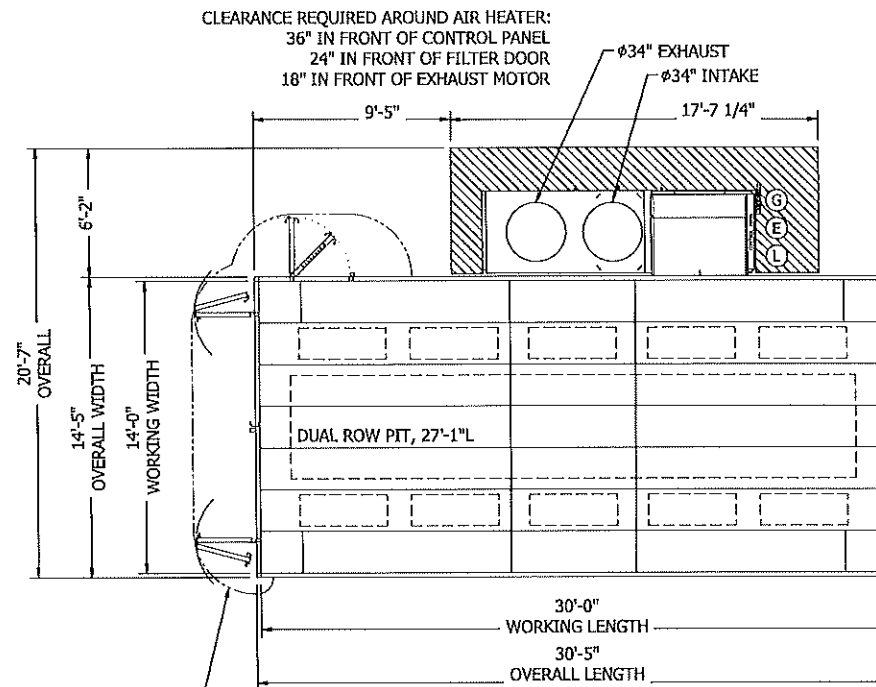
REAR ELEVATION



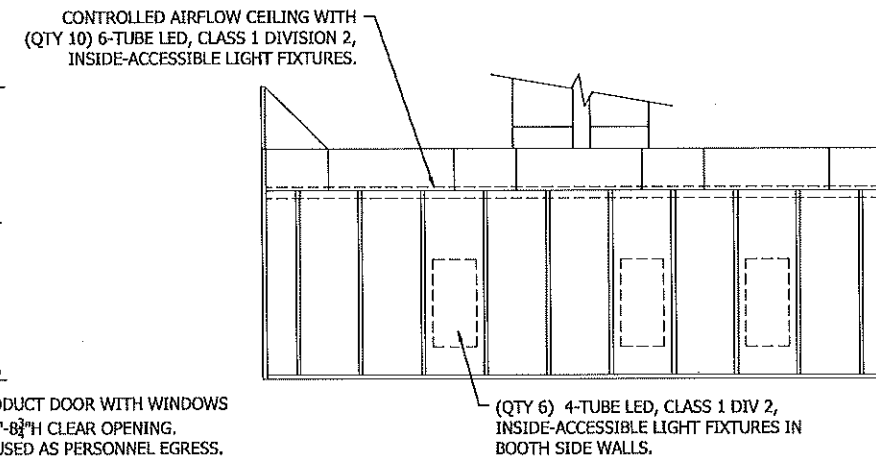
LH SIDE ELEVATION



FRONT ELEVATION



PLAN VIEW



RH SIDE ELEVATION

AIR HEATER						
MAX AIR FLOW RATE (CFM)	INTAKE / EXHAUST MOTOR (HP)	FUEL	MAX FIRING RATE (BTU/HR)	MIN INLET PRESS. AT MAX FIRING RATE (INWC)	MAX INLET PRESS. (PSI)	TEMP. RISE (°F)
15205	15 / 15	NATURAL GAS	1512605	13.0	5.0	91
		PROPANE	1323529	5.0		80

MOTOR MINIMUM CIRCUIT CAPACITY					
MOTOR SPECIFICATIONS		FULL LOAD AMP DRAW / MINIMUM CIRCUIT CAPACITY			
15HP INTAKE, 15HP EXHAUST		230V 1PH	208V 3PH	230V 3PH	480V 3PH
NO ADVANCE CURE					44.0 / 55.0

LIGHTING CIRCUIT		
QUANTITY OF LIGHT FIXTURES (4-TUBE, 6-TUBE, STD OR LED)	SINGLE PHASE MINIMUM CIRCUIT CAPACITY (AMPS)	
16	120V	277V
	30	20

Ø34" STACK WEIGHTS	
DUCT	21.97 LBS/LF
FAN	198 LBS
MOTOR	150 LBS
RINGS	45 LBS/PAIR OF RINGS
SILENCER	LBS
NO-LOSS	LBS
ARV	105 LBS
HOOD	115 LBS

SD	A
DRAWING	
C-GA	