Submittal Package Page 1 of 1



## **Submittal Package**

Project [14230] - Lee College McNair Career Center Phase **View Date** 1/16/2015

Bartlett Cocke General Contractors,

LLC

4540 Kendrick Plaza Suite #120

Houston, TX 77032

Phone: (713) 996-9510 Fax: (713) 996-9546

Submittal Package No.

15650

## **General Information**

Package No. 15650 Package Revision 0

**Description** Mechanical Equipment

**Primary CSI Code** 

ReviewersBusch, Al (BGK Architects)Primary ReviewerAl Busch (BGK Architects)Notes

## Items

CSI Code	Item No./Rev.	Description	Submitting Company	Status	Primary Response
	<u>15650-</u> <u>001.0</u>	Air Handling Units, Variable Air Volume Box, & Filters	Traylor Mechanical Group	Reviewed	Reviewed
	15650- 002.0	Air Cooled Rotary Chiller & Duct Free Split System	Traylor Mechanical Group	Reviewed as Noted	Reviewed as Noted
	<u>15650-</u> <u>003.0</u>	Modulating Copper Finned Tube Boiler & Trim	Traylor Mechanical Group	Requested	
	<u>15650-</u> <u>004.0</u>	Welding Exhaust Fan, Collectors/ Filtration System	Traylor Mechanical Group	Reviewed	Reviewed
	15650- 005.0	Water Pumps	Traylor Mechanical Group	Reviewed	Reviewed
	15650- 006.0	Misc. Fans	Traylor Mechanical Group	Reviewed	Reviewed
	15650- 007.0	Fan Cooling Units	Traylor Mechanical Group	Reviewed	Reviewed
	15650- 008.0	Water Treatment	Traylor Mechanical Group	Reviewed	Reviewed
	15650- 009.0	Welding Exhaust Collectors	Avani Environmental International, Inc.	Reviewed	Reviewed
	15650- 010.0	Variable Speed Motor Control	Traylor Mechanical Group	Requested	

Transmittal Page 1 of 1



		tal

**Project** [14230] - Lee College McNair Career Center Phase 3 **View Date** 1/16/2015

Date

Bartlett Cocke General Contractors,

LLC

4540 Kendrick Plaza

Suite #120

Houston, TX 77032 Phone: (713) 996-9510 Fax: (713) 996-9546 Transmittal No. 14230-

00112

То	Mr. Ke	vin Peterson		Date	1	/16/2015			
	BGK Ar	chitects		Items listed are being sent					
	100 Ja			☐ Enclose	ed	_			
Suite 202 Houston, TX 77002				□ Under	Separate	e Cover			
Houston, TX 77002 Phone: (713) 237-8002 Fax: (713) 237-8255			Via	•	-Mail				
From Jeff Bergeron (Bartlett Cocke General Contractors, LLC)									
Subject	Submit Equipm		50.0: Mechanical						
✓ Produ		ing the following $\Box$	_	_		_	_		
☐ Archit☐ Engine	eering D	Orawings 🗖 L Prawings 🗖 (	etters [Change Orders ]	Shop Dra Specifica Submitta	tions	O&M Manu		Plans Addenda	
Archit Engine  Submitt  Pkg. No	eering D	Drawings	etters [Change Orders   Descript	Specifica Submitta	Copies	Prints  Reason	Action	Addenda	
☐ Archit☐ Engine	eering D	Orawings 🗖 L Prawings 🗖 (	etters [Change Orders ]	Specifica Submitta	Copies	Prints	Action	Addenda	
Archit Engine  Submitt  Pkg. No	eering D als ./Rev.	Drawings	etters [Change Orders   Descript	Specifica Submitta	Copies	Prints  Reason	Action	Addenda	

## **Supporting Documents**

Received By

<b>Document Type</b>	Document	Open	Description	Date	Size (KB)
Sub. Pkg.	15650.0		Mechanical Equipment		

Printed Name



Lee College New Welding, Pipefitting Machine

Project: Technology and Millwright Facility at McNair Date: 1/16/2014

Jeffery

Subcontractor: Avani Environmental Reviewed By: Bergeron

Submittal No.: 15650-009 Welding Exhaust Collectors Resubmitted for Stamping

Bartlett Cocke General Contractors has reviewed this submittal for general conformance with the Contract Documents. This review does not relieve the subcontractor or supplier from responsibility for accuracy, completeness, quality, dimensions or compliance with the Contract Documents. Any deviation from the contract documents must be expressly stated. The subcontractor or material supplier is responsible for confirming all dimensions with actual jobsite conditions. Subcontractor is responsible for coordination of all his work with other trades and the general contractor. If engineering calculations were involved in the preparation of this submittal, those calculations have not been reviewed or verified.

## **Action Taken**

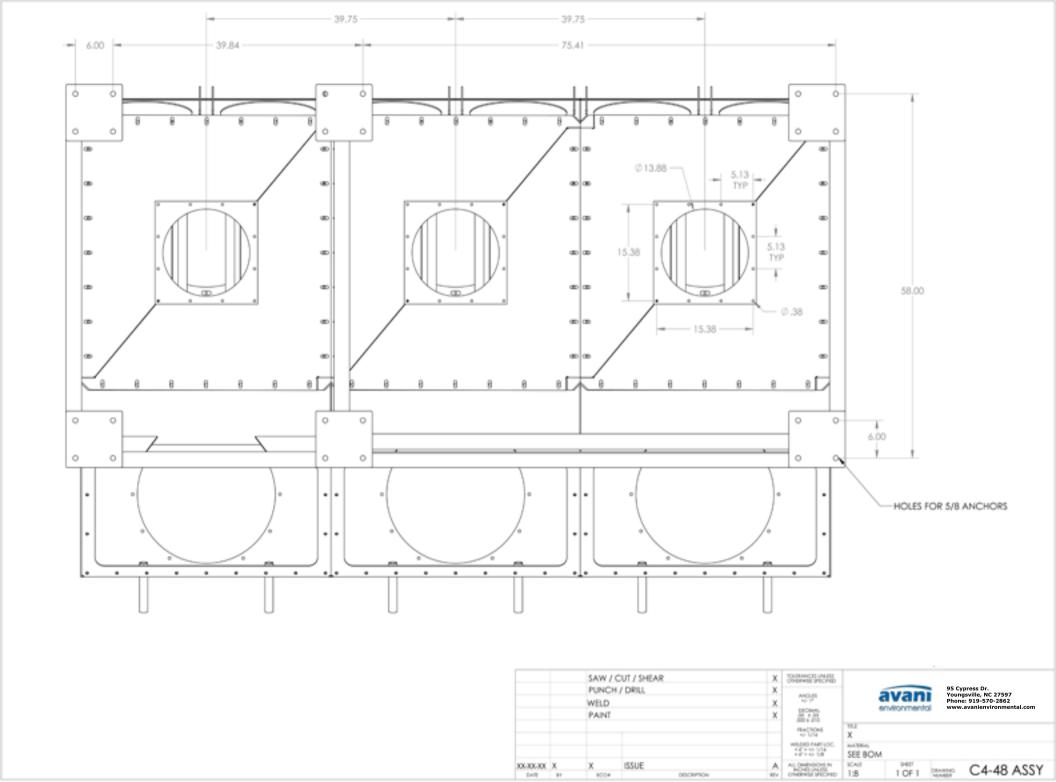
	Reviewed
$\boxtimes$	Reviewed Exceptions Noted
	Revise and Resubmit
	Rejected

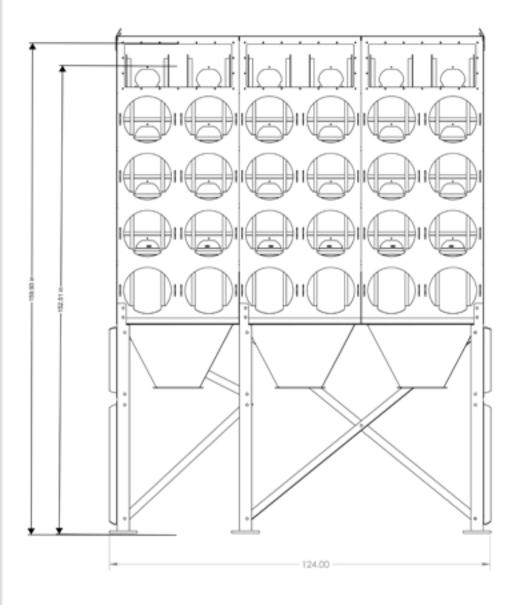
## Comments

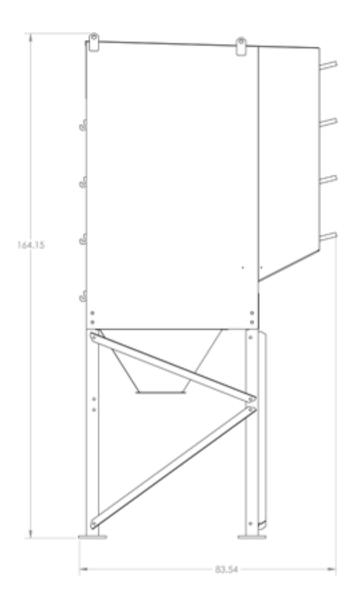
- This is a resubmittal that needs to be stamped for the files
- Arch/ENR please review attached documents for Approval
  - 1. 48 Cartridge Collector (in lieu of the 50 Cartridge Collector)
  - 2. 65 Cartridge Collector
  - 3. WB-1055 Wielding Booths
  - 4. Wielding booth arm
  - 5. Arm Bracket
  - 6. Mobile Fume Extractor
  - 7. Mobile Extractor Arm
  - 8. Halogen Light Kit (Last Three Pages)
    - PDF related to electrical aspect
    - PDF Converted from CAD
    - Installation manual shows photos



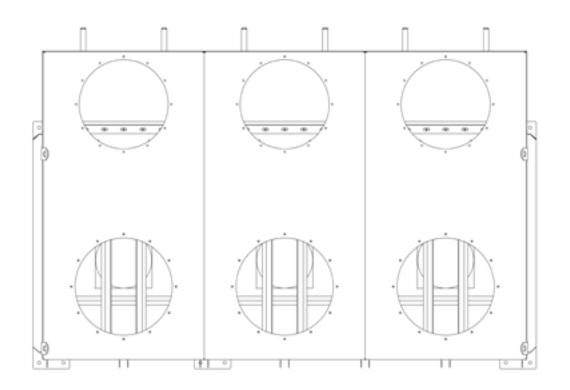
Acceptance does not amend the Contract Documents nor relieve the Contractor of compliance with those documents



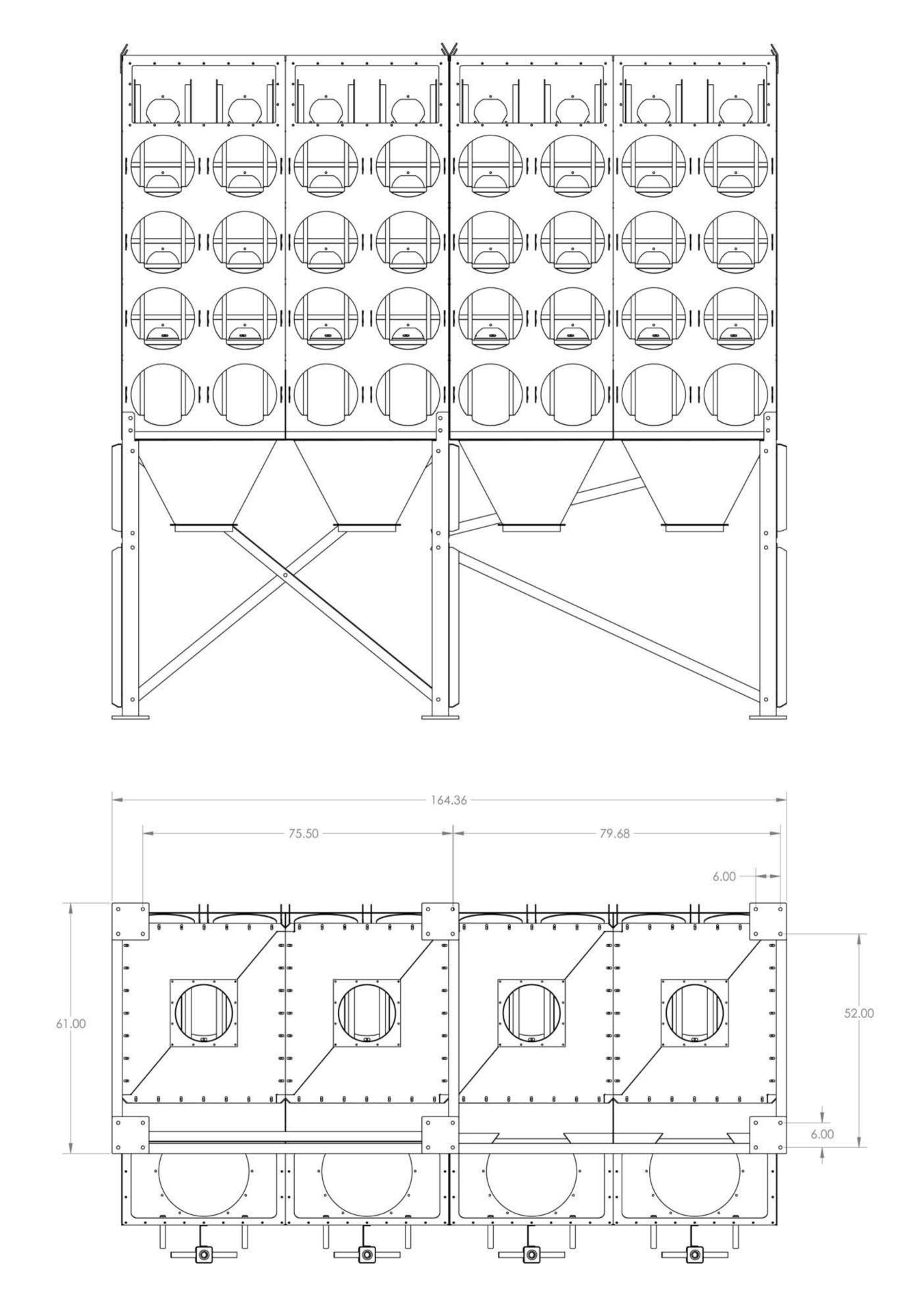


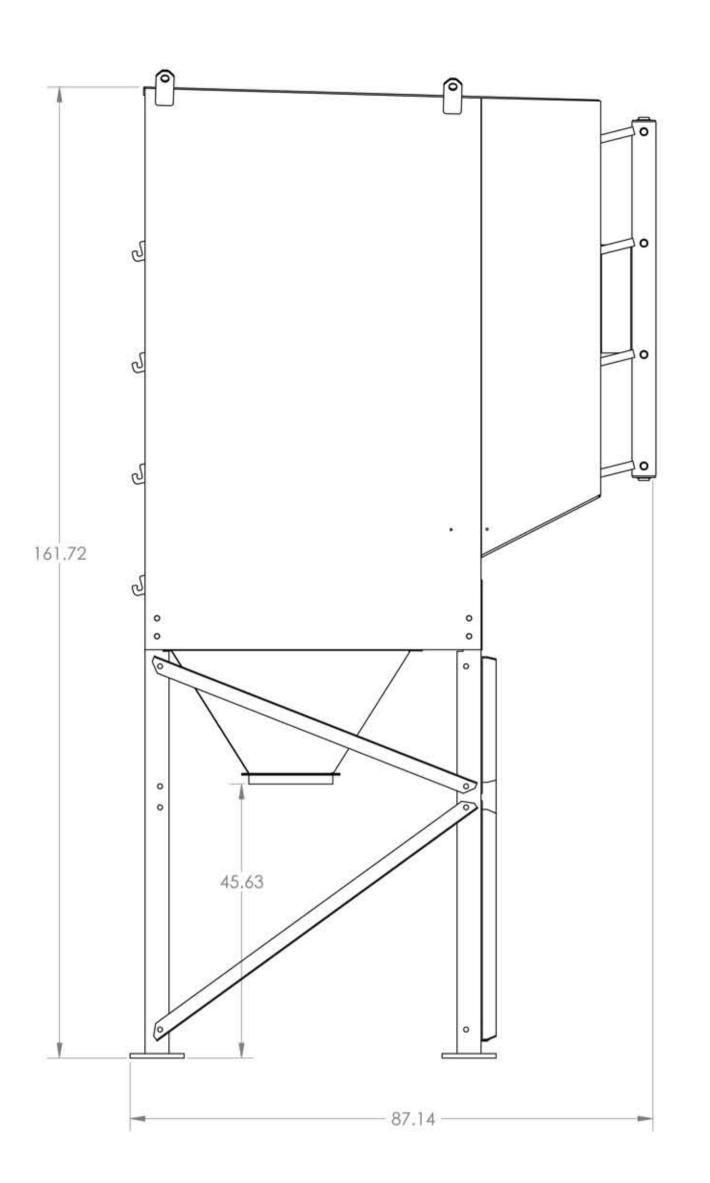


			CUT / SHEA	R	X	TOURNACE UNUES OTHERWISE SPECIFIED			■ 95 C	ypress Dr.
		PUNCH	/ DRILL		X	AMOUS		avan	Your	ngsville, NC 27597 ne: 919-570-2862
		WELD			X	AAGUS AA IP		environmento	Piloi	v.avanienvironmental.com
		PAINT			X	00 1 /0 00 1 /0				
						PEACTONS 10 1/16	162			
						WELDED PARTICION.	MATERIAL			
306-306-300	x	X	ISSUE		A	ALOMESONS IN	SCHE	5407		C4-48 ASSY
0.476	81	8004		DESCRIPTION	MIV	OHERWISE SPECIFIED	1:16	1 OF 1	MARKET	C4-40 M331









## SDC-AT-4-64 Specs

NUMBER OF FILTERS... ...64

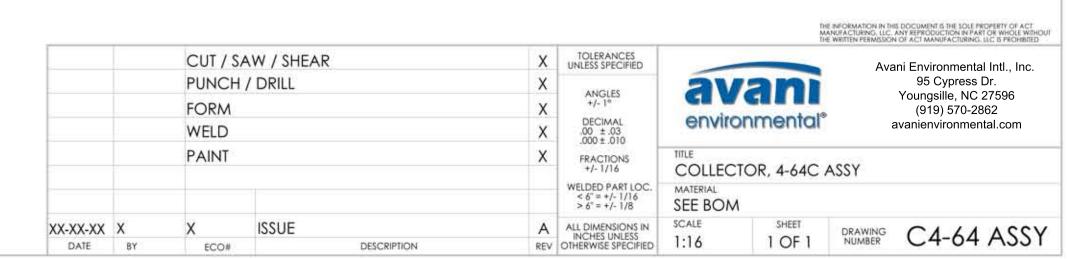
SQ FT PER FILTER... ...254 SQ FT FILTER DIMENSIONS... ...13.8" X 26"

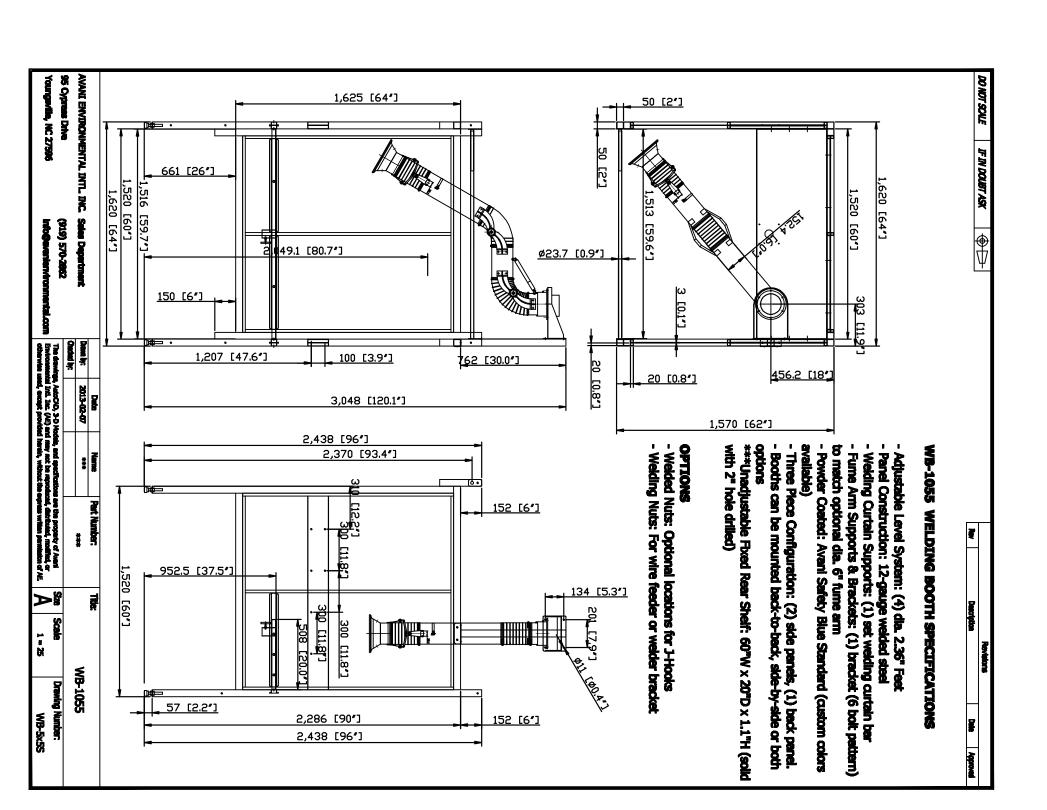
NUMBER OF VALVES... ...32

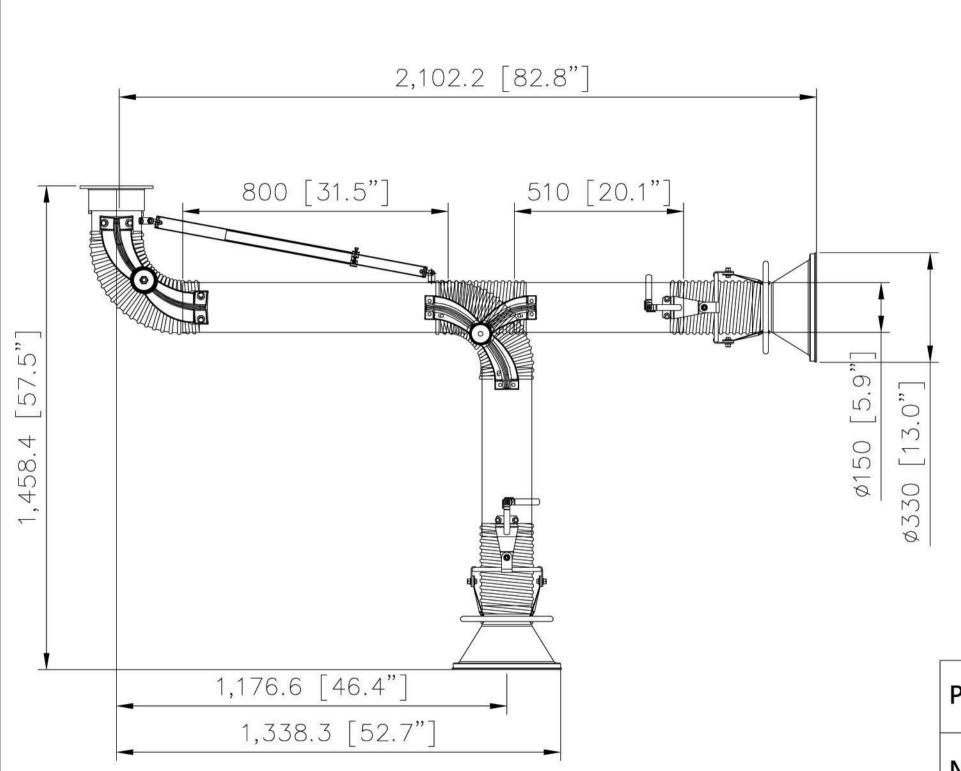
RECOMMENDED AIR PRESSURE... ...90-100 PSI

APPROXIMATE AIR CONSUMPTION... ...24 CFM WHEN 2 DIAPHRAGMS ARE PULSED EVERY

SECONDS CONTINUOUSLY







Hanging Arm 6"\*7"

Revisions

Diameter: 6" Length: 7'

Description

Rev

Weight: 42.5 lbs (net)

**Arm Construction:** Two galvanized steel tubes, three pieces of flex hose at joints, aluminum hood, heavy gauge steel swivel base, and support

spring.

**Arm Adjustment:** Externally supported, adjustments are quickly done at the joints.

**Hood:** 13" diameter round aluminum

hood.

**Damper:** Internal with external

adjustment.

Finish: Powder coated. Hose: Rated at 200°F

Accessories: Mounting bracket and

light kit.

Mounting Bracket:

Warranty: Limited two years from

date of purchase.

Packing Size:	133.7 x 87 x 37.5 cm 52.7 x 34.3 x 14.8 inch
N.W. / G.W.:	19.3 / 24.9 kgs 42.5 / 54.9 lbs

Avani Environmental Intl, Inc. 95 Cypress Drive Youngsville, NC 27596 sales@avanienvironmental.com

DO NOT SCALE

IF IN DOUBT ASK

Sales Department (919) 570-2862

20	Date	Name	_   P
Drawn by:	XX-XX-XX	XXXXX	
Checked by:			

Part Number: PART NO.

Title:

Arm 1620

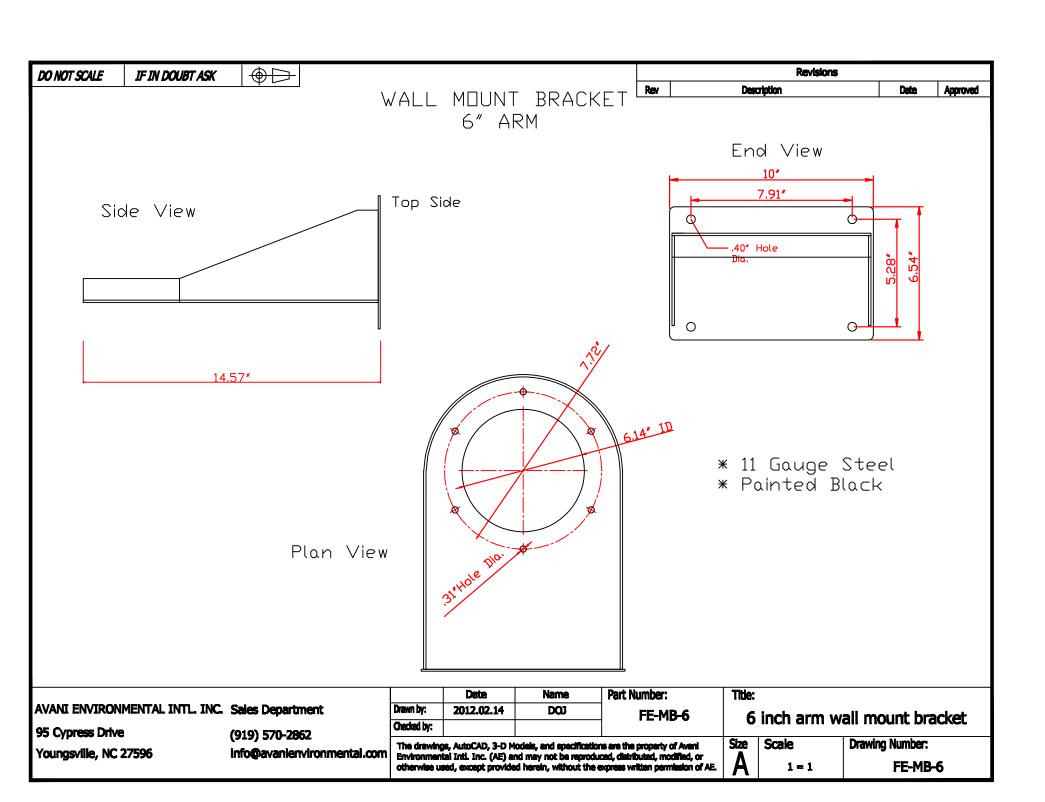
Size

Scale

Drawing Number:

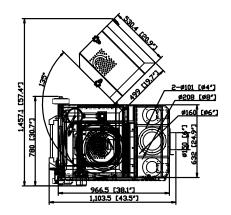
1 = xx

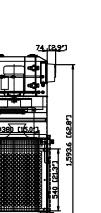
2009.12.18



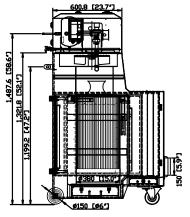
DO NOT SCALE	IF IN DOUBT ASK	
DO NOT SCALE	IF IN DOUBT ASK	$  \oplus \triangleright$

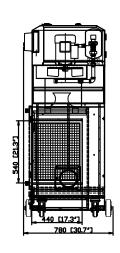
	Revisions		
Rev	Description	Date	Approved





440 [17.31]





## SPC-2000 WELDING FUME EXTRACTOR SPECIFICATIONS

- Motor: 1.5HP **NEMA Motor Aluminum Impeller** 

- Electric Spec: 120V/240V -60HZ -1Ph-16/8 Fl Amps (wired at 120V)

- Airflow: 1100 CFM (1867.8 m3/hr)

## Filtration Stages:

1. aluminum mesh x 1 pc

2. Cartridge Filter: DIA, 380 x 660mm x 1 pc - spec: dia. 380 x 660mmL (15" x 26"L)

- filtering area: 25m2 (269 ft2)

3. carbon after-filter x 1 pc

- Cartridge Material: 80 / 20 FR - Standard Media

- Polyester Cartridge with TEFLON treatment & coating (Optional Media)

- Dimensions: 43.5" x 30.7" x 66.2" (111 x 78 x 168cm)

- No. of Valves: 1

- Compressed Air Requirement: 90 PSI - 1/4" npt fitting

- Compressed Air Reservoir: 1.79 gallon

- Construction: 14 gauge steel - Max. Operating Temp.: 120°C - Paint Color: powder coated Blue

- Inlet Port: an arm port plate compatible for (1) 8" (1) 6" or (2) 4"

- Adjustable Blast Gate: dia, 6" x 1

- N.W. / G.W.: 441 / 562 lbs. (200 / 255 kgs.)

\*\*top maintenance door open at the back.

AVANI ENVIRONMENTAL INTL. INC. Sales Department 95 Cypress Drive

Youngsville, NC 27596

(919) 570-2862

info@avanienvironmental.com

	Date	Name
Drawn by:	2011-03-25	***
Checked by:		

Part	Number:	
	**	

Title:

**SPC-2000** 

The drawings, AutoCAD, 3-D Models, and specifications are the property of Aveni Environmental Intl. Inc. (AE) and may not be reproduced, distributed, modified, or otherwise used, except provided herein, without the express written permission of AE. Size

Scale

1 = 20

Drawing Number:

A02-03-PS-150

<del>Ф</del> Ш

Description

₽

Date Approved

# Standing Arm 8"\*7"

Diameter: 8"

Length: 7'

Weight: 58.2 lbs (net)

aluminum cover. grab handle, and support spring in protective external joint with aluminum hood, 360 degree powder coated, (2) die casted aluminum externa joints, heavy gauge steel swivel base, steel final Arm Construction: Two galvanized steel tubes,

[31.5"]

<u>510 [20.1"]</u>

2,263.6 [89.2"]

Arm Adjustment: 100% externally supported (no internal joints).

**Hood:** 14" diamater spun aluminum and powder

adjustment **Damper:** Internal damper with external

Finish: Powder coated

[30,5"

l,264.5 [49.8″]

,445.5 [57.0"]

ø246 [9,7"]

**External Hose:** Smooth bore, helical hose rated

at 200 degrees.

Finish: Powder coated.

halogen light. Accessories: Mounting bracket and One tough

Mounting Bracket:

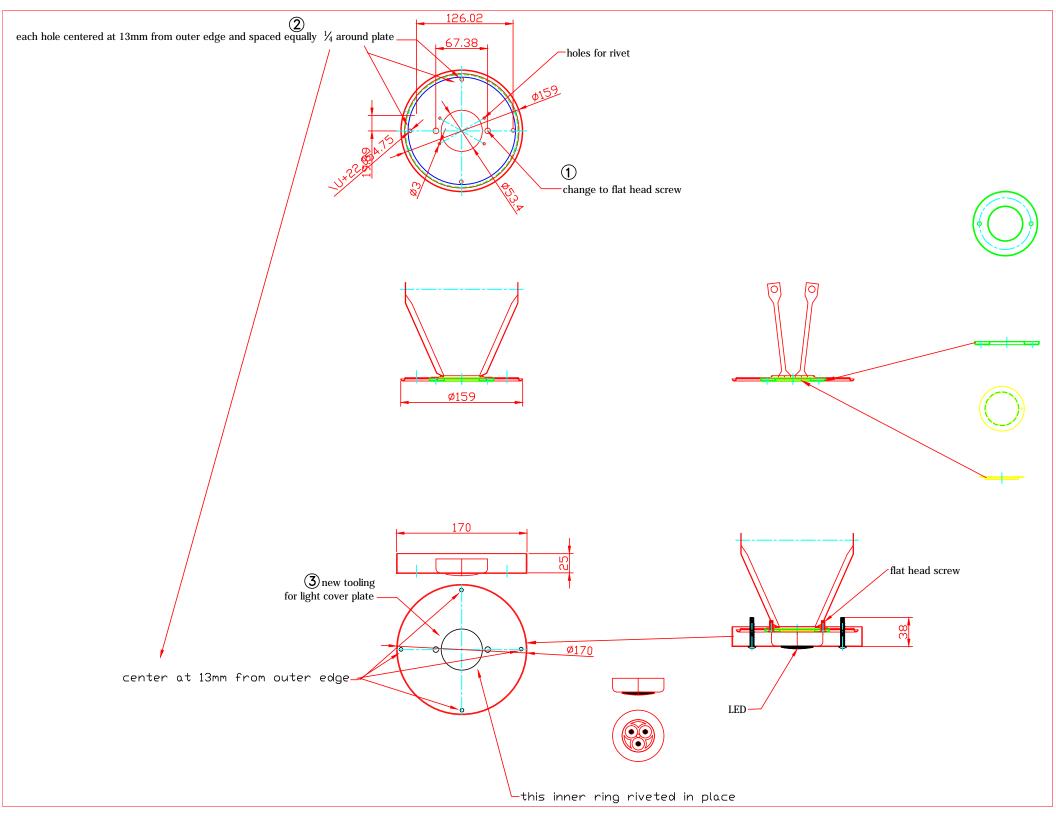
purchase. Warranty: Limited two years from date of

N.W. / G.W.	Packing Size:
26.4 / 34 kgs 58.2 / 75 lbs	156 x 40 x 75.5 cm 61.4 x 15.7 x 29.7 inch

/ F	95 Cypress Drive	AVANI ENVIRONMENTAL INTL. INC. Sales Department	
(212) 270 2002	(919) 570-2862	Sales Department	
LHO OUT	Checked by	Drawn by	

Youngsville,

		Date	Name	Part Number:	Title:		
TRONMENTAL INTL. INC. Sales Department	Drawn by	2013-09-30	***	* *		Arn	Arm 2020P
Drive (919) 570-2862	Checked by:						
	The drawin	gs, AutoCAD, 3-D M	odels, and specification	The drawings, AutoCAD, 3-D Models, and specifications are the property of Avani	Size	Scale	Drawing Number:
), NC 2/396 Into@avanienvironmental.com	Environmer otherwise u	ntal Intl. Inc. (AE) ar Ised, except provided	Environmental Intl. Inc. (AE) and may not be reproduced, distributed, otherwise used, except provided herein, without the express written pe	Environmental Intl. Inc. (AE) and may not be reproduced, distributed, modified, or otherwise used, except provided herein, without the express written permission of AE.	$\triangleright$	1 = xx	2013.09.30



# Battery powered LED Fume Arm Lighting 1200 - 1600 - 2000 Models 5" 6" 8"

Light Kit External Diverter Plate

"NEW" Standard Diverter Plate For all 5", 6" & 8" arms.

New holes with threaded nuts attached Vinsert machine screws to seal hole New holes same size, same threaded nuts, as these Stocked item to be used when light kit is ordered

Inner ring riveted in place

Plan View Plate must be 6mm larger diameter than standard plate Plate must have 25mm lip (see edge dwg below)  $\nabla$ -New holes(4.75mm) - no threaded nuts Holes must line up with those in standard plate Supply (4) 38mm long bolts to attach both plates

Inner ring riveted in place Edge View 25mm lip, will encase standard plate upon installation

## Notes

Standard diverter plate changes:

1. Add 4 holes on outer portion of plate with nuts attached to back of plate

2. Install screws to seal holes

### Light Kit Diverter Plate

1. Fabricate 6mm larger diameter than standard plate

2. Drill holes (4.75mm) to line up with new holes on standard plate

3. Rivet inner ring to plate (no nuts)

4. Fabricate with a 25mm lip that will cover standard plate when installed

5. Supply (4) 38mm long bolts to secure the two plates together.

# **Owners Manual**

# LED Touch Activated Light Kit Assembly Manual



1. Remove the (4) hex head bolts that secure the diverter plate to the hood.



2. Find the new diverter plate kit made for battery powered lighting, including the required nylon sleeves (1/2" x .194 x 1), LED light and glass cover. (See parts photo below:)



## Parts List:

- 1. Inner Diverter Plate (1), Outer Plate Cover (1), Glass Cover (1) Supplier: Taiwan
- 2. Led Light (1) Supplier: Lowes Item Number: 163154 Model Number: 72435
- 3. Nylon Sleeves (4) 3/8 x .171 x 1 Supplier: Lowes Part Number: H#880432 UPC#: 0823670824
- 4. 10/24 hex nuts (4)
- 3. Remove the (4) Phillips head screws from the new diverter plate cover and separate the inner plate from the outer cover.



- 4. Locate the battery powered light and a glass cover.
- 5. Glue the glass cover to the light by applying a small drop of gorilla super glue to each of the three light contacts.

 The light is magnetic and should be attached to the center of the inside plate. Remove adhesive backing and attach. (see photo below).



- 7. Locate the top cover and re-insert the (4) Phillips head screws.
- 8. Insert the nylon sleeves onto the screws. (see photo below)
- 9. Secure the nylon sleeves with a 10/24 hex nut and tighten.



- 10. With the sleeves in place the cover can be secured to the inner plate by turning the screws.
- 11. Test the unit to ensure that it works properly.
- 12. Using the (4) hex head bolts that were removed from the original diverter plate, install the battery powered kit to the arm hood.

## **Contact Information**

Avani Environmental International Inc. 95 Cypress Drive, Youngsville, NC 27596

Email: info@avanienvironmental.com

www.avanienvironmental.com

**Customer Service:** <u>info@avanienvironmental.com</u>

Tel: 919-570-2862 ext.208

**Engineering Service:** <a href="mailto:engineering@avanienvironmental.com">engineering@avanienvironmental.com</a>

Tel: 919-570-2862 ext.203