

**SECONDARY ALUMINUM SWEAT FURNACES
AIR GENERAL PERMIT EXAMPLE REGISTRATION WORKSHEET**

Facility Identification Number - If known (seven digit number)

0270021-003-AG

0270021

Registration Type

Check one:

INITIAL REGISTRATION - Notification of intent to:

- Construct and operate a proposed new facility.
- Operate an existing permitted facility not currently using an air general permit (e.g., a facility proposing to go from an air operation permit to an air general permit). If the facility currently holds one or more air operation permits, such permit(s) must be surrendered by the owner or operator upon the effective date of this air general permit. (See "Surrender of Existing Air Operation Permit(s)" below.)
- Operates an existing facility not currently permitted or using an air general permit.

RE-REGISTRATION (for facilities currently using an air general permit) - Notification of intent to:

- Continue operating the facility after expiration of the current term of air general permit use.
- Continue operating the facility after a change of ownership.
- Make an equipment change requiring re-registration pursuant to Rule 62-210.310(2)(e), F.A.C.
- Any other change not considered an administrative correction under Rule 62-210.310(2)(d), F.A.C.

Surrender of Existing Air Operation Permit(s) - For Initial Registrations Only, if Applicable

All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s):

General Facility Information

Facility Owner/Company Name (Name of corporation, agency, or individual owner who or which owns, leases, operates, controls, or supervises the facility.)

Allied Recycling, Inc.

Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a complete registration must be submitted for each.)

Allied Recycling Arcadia, Inc.

Facility Location (Physical location of the facility, not necessarily the mailing address.)

Street Address: 2347 SW Hwy 17

City: Arcadia

County: DeSoto

Zip Code: 34266

Facility Start-Up Date (Estimated start-up date of proposed new facility.)(N/A for existing facility.)

August 2013

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REVENUE

Facility Contact

Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.)

Print Name and Title: Todd Adamson, Vice President

Facility Contact Telephone Numbers

Telephone: (239) 334 - 1191

Fax: (239) 334 - 4509

Cell phone: _____

E-mail: ertadamson@aol.com

Facility Contact Mailing Address

Organization/Firm: Allied Recycling Arcadia, Inc.

Mailing Address: 2341 SW Hwy 71,

City: Arcadia

County: DeSoto

Zip Code: 34266

Correspondence Contact/Representative (to serve as additional Department contact)

Name and Position Title

Print Name and Title: Venkata Godasi, Graduate Engineer

Correspondence Contact/Representative Telephone Numbers

Telephone: (813) 249 - 2272

Fax: 866-326-2272

Cell phone: _____

E-mail: vgodasi@aacenv.com

Correspondence Contact/Representative Mailing Address

Organization/Firm: AARC Environmental-Southeast Inc.

Mailing Address: 400 North Ashley Dr., Ste. 1775

City: Tampa

County: Hillsborough

Zip Code: 33602

Government Facility Code (check only one)

- Facility not owned or operated by a federal, state, or local government.
- Facility owned or operated by the federal government.
- Facility owned or operated by the state.
- Facility owned or operated by the county.
- Facility owned or operated by the municipality.
- Facility owned or operated by a water management district.

Facility Description and Comments

Number of secondary aluminum sweat furnace units on site: 1

List and briefly describe all other process operations at the site that may emit air pollutants (for example, scrap shredders, degreasers, paint shops, boilers, emergency generators, etc.). Add any comments about the facility that would be helpful to the Department in understanding the nature of your operation (for example, describe the products made, amount of materials used, air pollution control equipment employed, and hours of operation).

The facility intends to install one Rotary Furnace (80 cubic feet capacity), one Holding Furnace (15,000 to 20,000 pounds holding capacity), Air-Gas Combustion Unit. The emissions from Rotary Furnace and Holding Furnace will be controlled using Baghouse (30,000 cfm capacity).

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AARC ENVIRONMENTAL-SOUTHEAST LLC



Environmental,
Occupational Health &
Safety Solutions

**APPLICATION FOR AIR GENERAL PERMIT REGISTRATION
SECONDARY ALUMINUM SWEAT FURNACES
ALLIED RECYCLING ARCADIA, INC.
ARCADIA, FL**

MAY 2013

Prepared for:

Allied Recycling Arcadia, Inc.
2347 SW Hwy 17
Arcadia, FL 34266

Submitted to:

Florida Department of Environmental Protection
Mail Station 77
3800 Commonwealth Blvd.,
Tallahassee, Florida 32399

AARC-SE Project No: 1-E-563-91-3

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INTRODUCTION

Allied Recycling Arcadia, Inc. intends to install a secondary aluminum smelter. The facility is located in Arcadia; DeSoto County, Florida. The facility engages in sorting, cleaning, melting refining, alloying and pouring aluminum recovered from scrap. The site is currently authorized for shredding mill and associated equipment under FDEP Air Minor Air Construction Permit (Air Permit # 0270021-001-AC). The facility intends to install secondary aluminum smelter at the site and is seeking to authorize under FDEP Air General Permit Registration for Secondary Aluminum Sweat Furnaces.

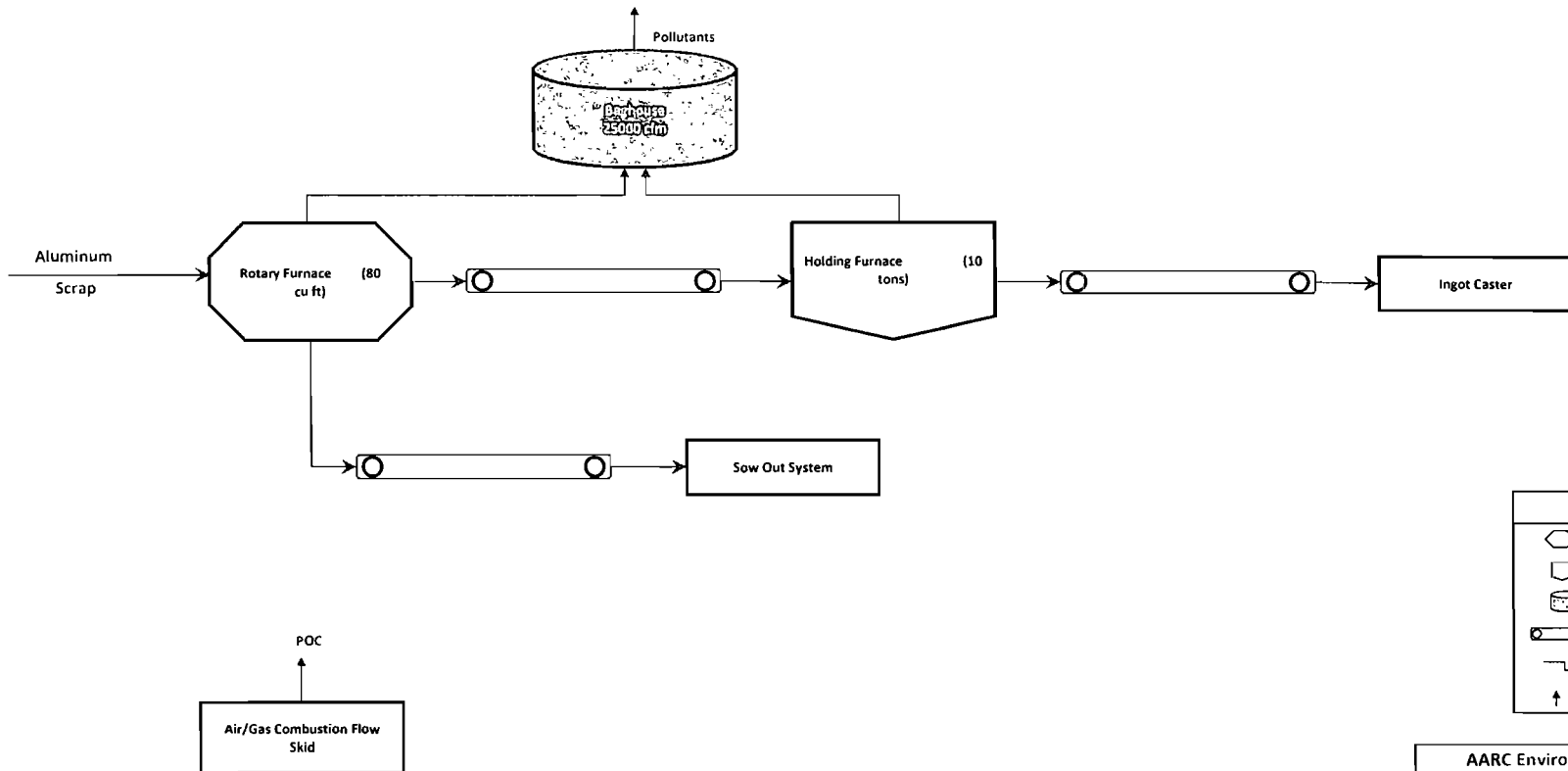
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AIR GENRAL PERMIT REGISTRATION WORKSHEET

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ATTACHMENT-1: PROCESS FLOW DIAGRAM

Allied Recycling Arcadia, Inc. - Aluminum Smelter
 2347 SW Hwy 17, Arcadia, FL 34266 (Facility ID # 0270021)
 Secondary Aluminum Sweat Furnaces - FDEP Air General Permit Registration
 Process Flow Diagram - Aluminum Smelter



Legend	
	Rotary Furnace
	Holding Furnace
	Baghouse
	Connectors
	Material Process Line
	Air Pollutants

AARC Environmental-Southeast LLC.

 Allied Recycling Arcadia, Inc. - Aluminum Smelter
 FDEP Air General Permit Registration
 May, 2013

ATTACHMENT-2: SITE MAP

**SECONDARY ALUMINUM SWEAT FURNACES
AIR GENERAL PERMIT EXAMPLE REGISTRATION WORKSHEET**

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August 2013

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Print Name and Title: Todd Adamson, Vice President

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Name and Position Title

Print Name and Title: Venkata Godasi, Graduate Engineer

Correspondence Contact/Representative Telephone Numbers

Telephone: (813) 249 - 2272

Fax: 866-326-2272

Cell phone: _____

E-mail: vgodasi@aacenv.com

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ALLIED RECYCLING ARCADIA, INC.
ARCADIA, FL**

MAY 2013

Prepared for:

Allied Recycling Arcadia, Inc.
2347 SW Hwy 17
Arcadia, FL 34266

Submitted to:

Florida Department of Environmental Protection
Mail Station 77
3800 Commonwealth Blvd.,
Tallahassee, Florida 32399

AARC-SE Project No: 1-E-563-91-3

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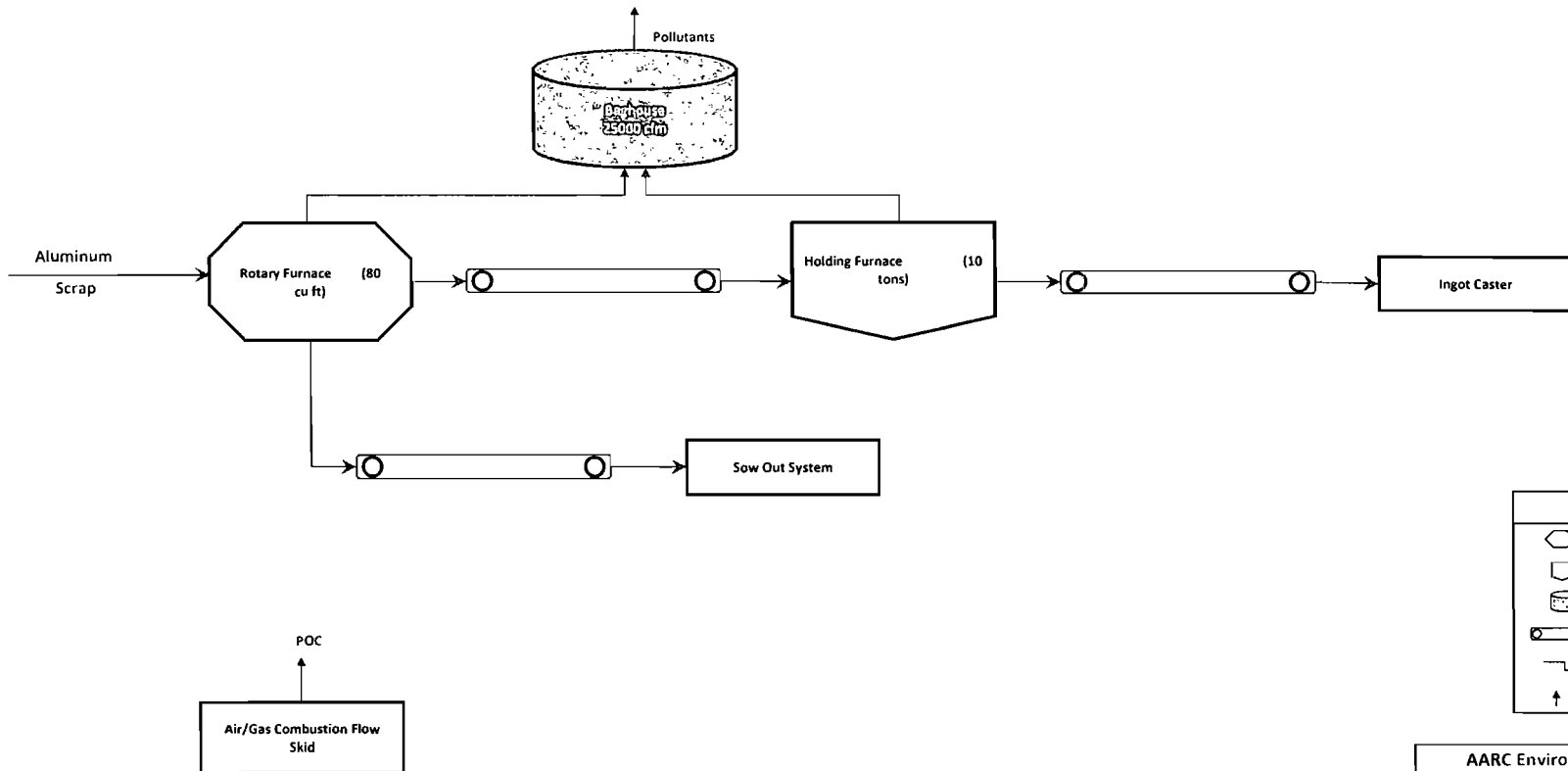
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AIR GENRAL PERMIT REGISTRATION WORKSHEET

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ATTACHMENT-1: PROCESS FLOW DIAGRAM

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 2347 SW Hwy 17, Arcadia, FL 34266 (Facility ID # 0270021)
 Secondary Aluminum Sweat Furnaces - FDEP Air General Permit Registration
 Process Flow Diagram - Aluminum Smelter



Legend	
	Rotary Furnace
	Holding Furnace
	Baghouse
	Connectors
	Material Process Line
	Air Pollutants

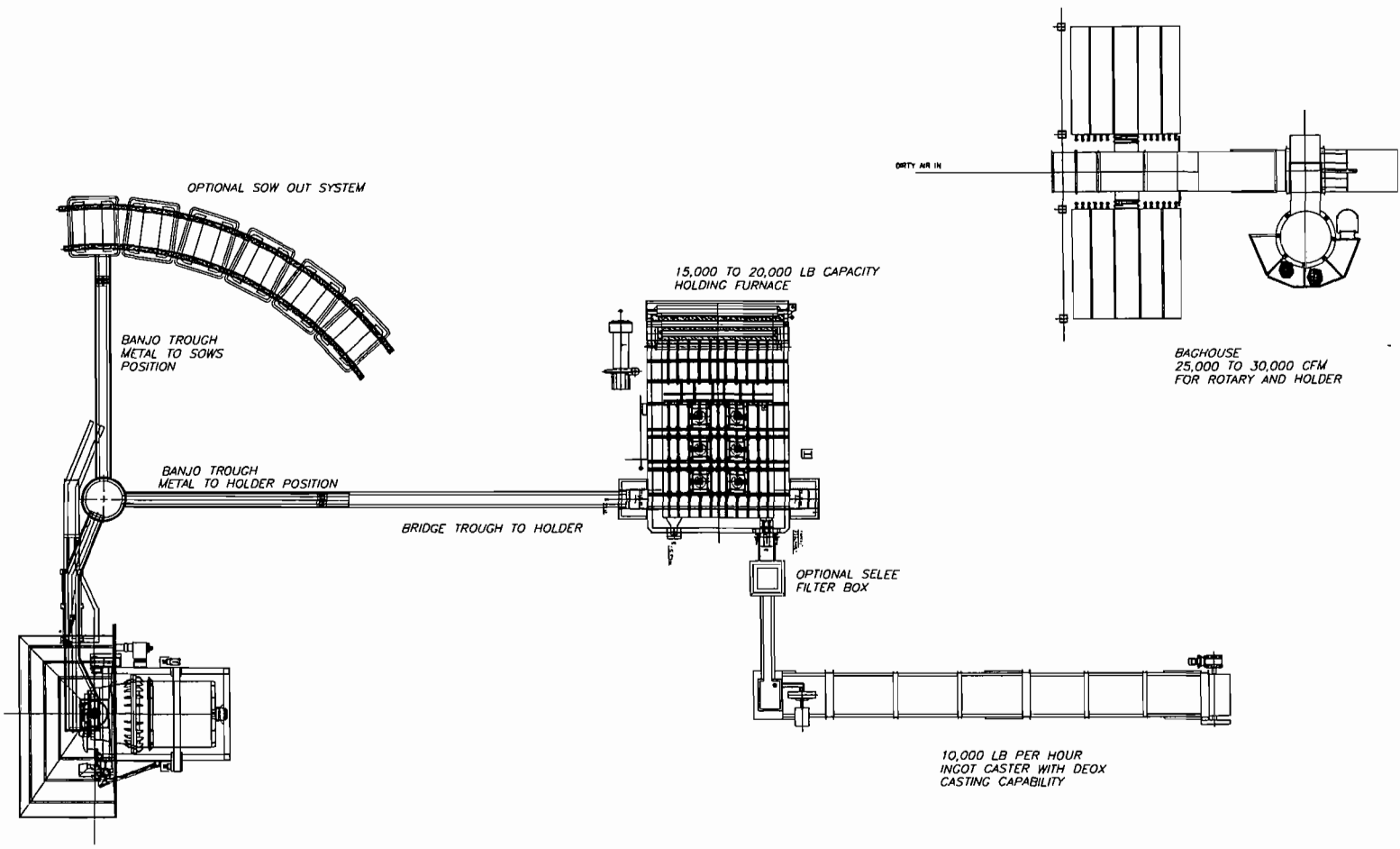
AARC Environmental-Southeast LLC.

 Allied Recycling Arcadia, Inc. - Aluminum Smelter
 FDEP Air General Permit Registration
 May, 2013

ATTACHMENT-2: SITE MAP

ATTACHMENT-3: EQUIPMENT SPECIFICATOINS

DWG NO. G-213600-100 BILL OF MATERIAL				
ITEM	QTY.	DESCRIPTION	MAT'L	WT.



ROTARY FURNACE
APPROX. 80 CUBIC FOOT
CAPACITY

OPTIONAL SOW OUT SYSTEM

BANJO TROUGH
METAL TO SOWS
POSITION

BANJO TROUGH
METAL TO HOLDER
POSITION

BRIDGE TROUGH TO HOLDER

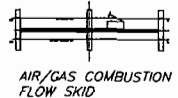
15,000 TO 20,000 LB CAPACITY
HOLDING FURNACE

OPTIONAL SELEE
FILTER BOX

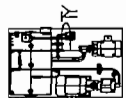
DIRTY AIR IN

BAGHOUSE
25,000 TO 30,000 CFM
FOR ROTARY AND HOLDER

10,000 LB PER HOUR
INGOT CASTER WITH DEOX
CASTING CAPABILITY



AIR/GAS COMBUSTION
FLOW SKID



ROTARY HYDRAULIC
POWER UNIT

DO NOT SCALE

NO.	REVISION	By	Date

MANUFACT'G TOLERANCES

	Inches	mm
Fabricated	± 1/16	± 2
Machined	.0 ± .020	± 0.5
	.00 ± .010	± 0.25
	.000 ± .006	± 0.15
Angles	± 1/2°	± 1/2
Machine Finish	125 µin	3.2 µm
Internal Radii	.015	0.4
External Chamfer	Ø ± 45°	Ø ± 45

Enterprise Engineering & Consulting, PLLC
141 Bryon Drive
St. Marys, West Virginia 26170

Customer: ALLIED RECYCLING

Title: INGOT CASTER
GENERAL ARRANGEMENT

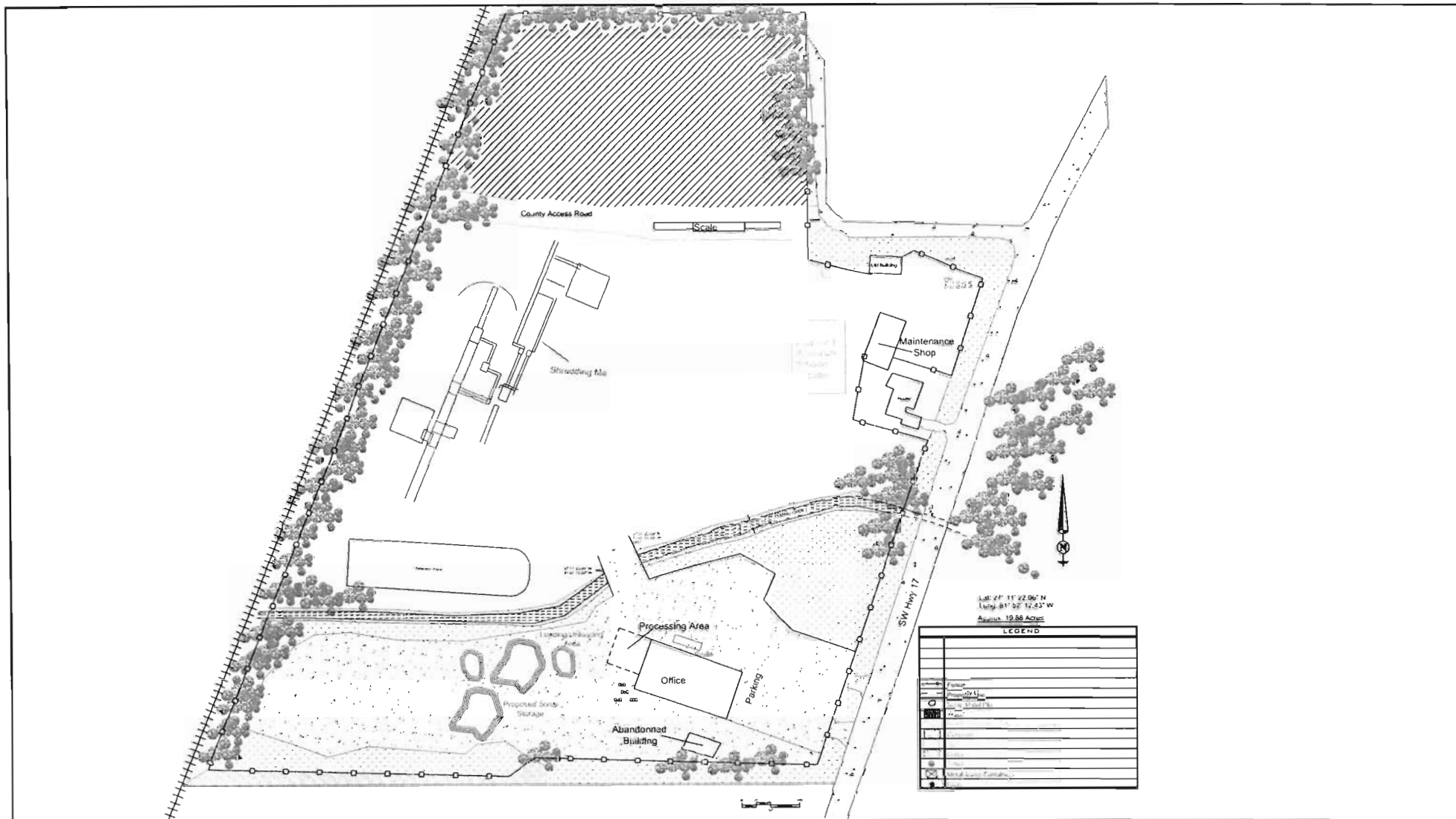
Drawn	DEM	Date 8-18-13	Dep. No.	Scale 1/4"=1'-0"
Checked		Date	G-213600-100	Revision 4
Approved		Date		

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Allied Recycling, Inc.
 2347 SW Hwy 17
 Arcadia, FL 34266

Prepared by:
 AARC Environmental-Southeast, LLC.
 © 2012-2013

Date: 8/20/11

Drawn By: Nicole Kay

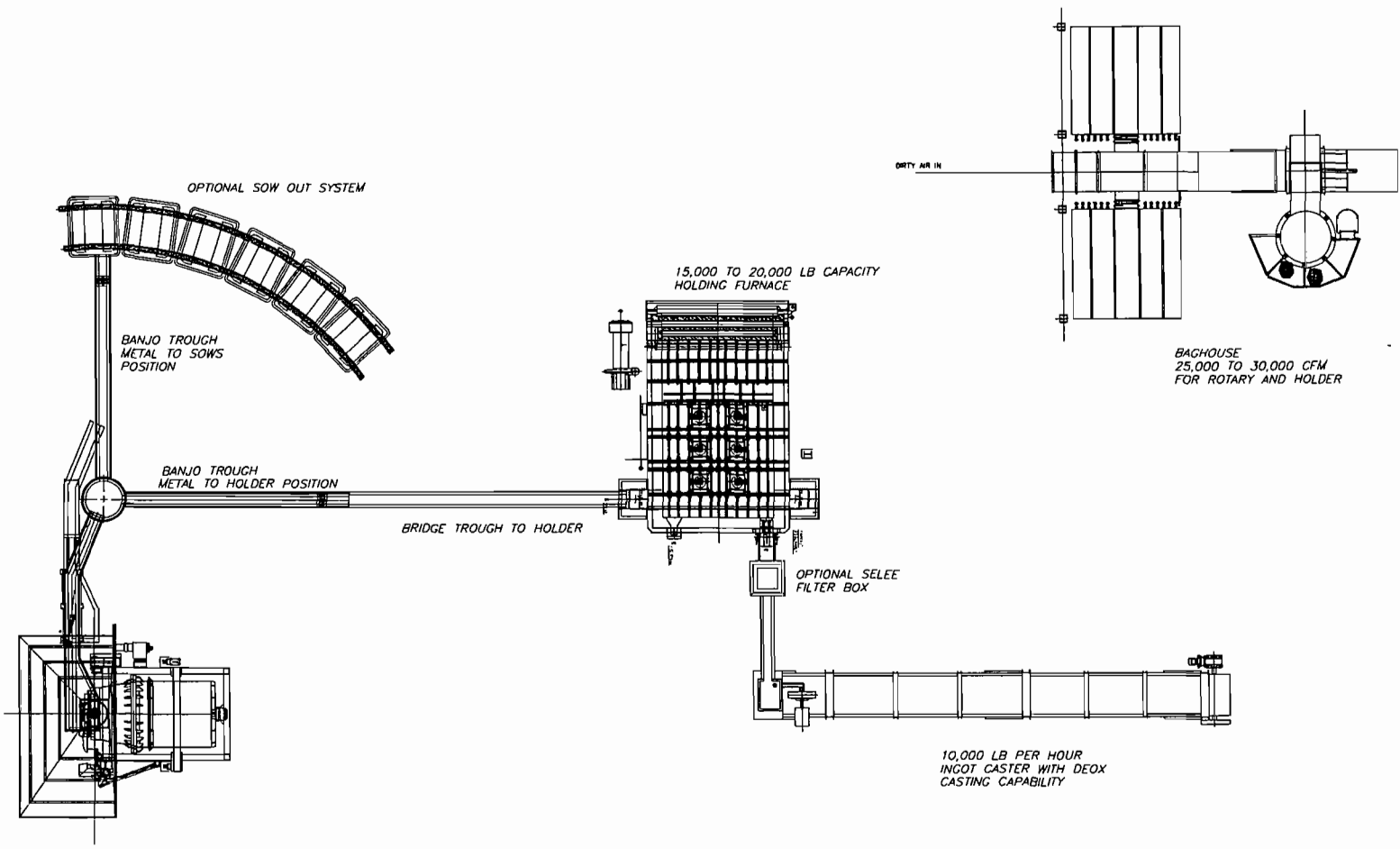
Dwg. Type: Plot Plan

Revised By: VG
 Revision: 2

Sheet: 1 of 1

ATTACHMENT-3: EQUIPMENT SPECIFICATOINS

DWG NO. G-213600-100 BILL OF MATERIAL				
ITEM	QTY.	DESCRIPTION	MAT'L	WT.



DO NOT SCALE

NO.	REVISION	By	Date

MANUFACT'G TOLERANCES

	Inches	mm
Fabricated	± 1/16	± 2
Machined	.0 ± .020	± 0.5
	.00 ± .010	± 0.25
	.000 ± .006	± 0.15
Angles	± 1/2°	± 1/2
Machine Finish	125 µin	3.2 µm
Internal Radii	.015	0.4
External Chamfer	Ø ± 45°	Ø ± 45

Enterprise Engineering & Consulting, P.L.L.C. 141 Bryon Drive St. Marys, West Virginia 26170			
Customer	ALLIED RECYCLING		
File	INGOT CASTER GENERAL ARRANGEMENT		
Drawn	DEM	Date 8-18-13	Drawn No.
Checked		Date	G-213600-100
Approved		Date	Revision #

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