

Florida Department of Environmental Protection

Bob Martinez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400 DEP Form #62-701.900(23)

Form Title: Waste Tire Processing

Facility Permit Application

Effective Date: January 6, 2010 Incorporated in Rule 62-711.530(6)

Waste Tire Processing Facility Permit Application

Perr	mit No						
Ren	iewal □	Modification		Existing unperm	nitted facility	Proposed	new facility □
Part	t I-General	Information:					
A.	Applicant	Information:	:				
1.	Applicant I	Name:					
2.	Applicant S	Street Address	507 NIL	SEN ST			
3.	City:			County: P	olk	Zip:	33844
4.	Applicant N	Mailing Addres	ss: 507 Nils	en St.			
5.	_{City:} Hair	nes City		County: Po	olk	Zip:	33844
6.	Contact pe	erson: Robei	rt Vargas	Phone: 939-63	30-1102	FEID No:	47-4827279
В.	does not in does not o		ing Letter, Warn cy action.	ing Notice, Notice	e of Noncompl	ation of Department ruliance, or other similation of the enforcement ac	r document which
1.	Facility Na	me: RJ Ti	res				
2.	Facility Str	eet Address (f	Main Entrance):	507 Nilse	n St.		
3.	_{City:} Haiı	nes City					
4.	Eggility Ma			County:	Polk	Zip:	33844
	racility ivia	ailing Address:	507 Nils		Polk	Zip:	33844
5.	-		507 Nils			Zip: 	33844
5. 6.	-	niling Address:	507 Nils	en St. _{State:} FL			
	City: Hair	niling Address:	bert Vargas	en St. _{State:} FL		Zip:	
	City: Hair	ailing Address: nes City erson: Ro	bert Vargas	en St. _{State:} FL	Phone:	Zip:	
	City: Hair Contact Pe	nes City erson: Ro cation Coordin	bert Vargas ates:	en St. State: FL Township:	Phone:	Zip: 939-630-1102	33844
7.	City: Hair Contact Per Facility Loc Section: Latitude:	nes City Person: Ro Cation Coordin 19 28deg 06	bert Vargas ates:	en St. State: FL Township:	Phone:27	Zip: <u>9</u> 39-630-1102 Range:	27
7.	City: Hair Contact Per Facility Loc Section: Latitude: Anticipated	nes City Person: Ro Cation Coordin 19 28deg 06	bert Vargas ates: 5' 56"	en St. State: FL Township:	Phone: 27 ongitude: 81	Zip: 939-630-1102 Range: deg 38' 31"	27

DEP Form #62-701.900(23)

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Effective Date: January 6, 2010 Incorporated in Rule 62-711.530(6)

1. Owner's nar		argas	om applicant):			
2. Land owner		Idress: 412	VISTA BAH	HA AIF		
	NUELAS		State: F	uerto Rico	Zip:	00624
4. Authorized	Agent: R	obert Varg	as	Agent's phone	_e (939 ₇ 630-110	2
5. Current leas	se expires:	n/a - owne	r			
D. Facility Ope 1. Operator's r		mation (if differ	ent from applican	t):		
2. Operator's r	mailing addre	ess:				
3. City:			State:		Zip:	
4. Contact pers	son:			Phone: ()	
E. Preparer of 1. Name of per			Susan J.	Pelz, P.E, Pelz	Environmenta	al Services Inc.
2. Mailing addr	ress: PO	Box 961				
3. City: Bra	ndon		State: F	L	Zip:	33509
4. Phone: (8)	1344700	54				
5. Affiliation wi	th facility:	Consulta	nt			
Part II-Operation A Facility type Waste tire pr	(check app					
•	_	-	e disposal of prod	cessed tires or proce	esina residuals	
		-		waste tires or proce	-	
·	Ü		•	allow wa ste tire site	J	
		-	many as apply):		3	
□Shredder □Pyrolysis	□Cutter		per □Inciner		rator with energy re	ecovery
				e tires, processed wa ce with Rule 62-711.		essing residuals,
	St	Outdoor orage(tons)	Outdoor Storage (sq.ft)	Indoor Storage (tons)	Indoor Storage (sq.ft)	Total Storage (tons)
Whole waste ti	ires: 93	.76	2120 (5 trailers	140.28	5,063	234.04
Processed tire	s: 0		0	0	0	0
Processing res	siduals: 0		0	0.03	5	
TOTALS:	93	3.76	2120	140.38	5,068	

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D.	For reporting qua	ntity of tires in tons, tires will be:	0	ed on site ⊔ ts will be calculate	weighed off site □ d ■	_
E		not be disposing of processed tire aste management facility where p				ust indicate the
1.	Name of facility	Polk County North Central Landfill				
2.	Street address:	7499 DeCastro Road				
3.	City: Winter Haven	Co	ounty:	Polk	Zip:	33880
F.	markets for those	be delivering processed tires to concessed tires. I shipped to facilities in Puerto Rico for resale to the shipped t		g facilities must do	escribe the existing	or proposed
-						
-						

Part III-Attachments:

A. Facility design

NOTE: All maps, plan sheets, drawings, isometrics, cross sec tions, or aerial photographs shall be legible; be signed and sealed by a registered professional engineer responsible for their preparation; be of appropriate scale to show clearly all required details; be numbered, referenced to narrative, titled, have a legend of symbols used, contain horizontal and vertical scales (where applicable), and specify drafting or origination dates; and use uniform scales as much as possible, contain a north arrow and use NGVD for all elevations.

- 1. A topographic or section map of the facility, including the surrounding area for one mile, no more than one year old, showing land use and zoning within one mile of the facility
- 2 A plot plan of the facility on a scale of not less than one inch equals 200 feet. At a minimum, the plot plan shall include
 - a. The facility design, including the location and size of all storage and processing areas for used tires, unprocessed waste tires, processed waste tires, and waste tire processing residuals;
 - b. All wetlands and water bodies within the facility or within 200 feet of any storage area;
 - c. Stormwater control measures, including ditches, dikes, and other structures;
 - d. Boundaries of the facility, legal boundaries of the land containing the facility, and any easements or rights of way that are within the facility or within 200 feet of any storage area;
 - e. Location, size, and depth of all wells within the facility or within 200 feet of any storage area;
 - f. All structures and buildings that are, or will be, constructed at the facility; include those used in storage and processing operations;
 - g. All areas used for loading and unloading;
 - h. All access roads and internal roads, including fire lanes;
 - i. Location of all fences, gates, and other access control measures; and
 - i. Location of all disposal areas within the facility.

B. Facility operation.

- 1. A description of the facility's operation, process and products including how waste tires will be received and stored.
- 2 A description of the equipment used for processin g tires. This description shall include the make, model, and hourly capacity of each piece of equipment.
- 3 Description of the waste from the process, the amount of waste expected and how and where this waste will be disposed of.
- 4 Statement of the maximum daily throughput and the planned daily and annual throughput.
- 5 A description of how the operator will maintain compliance with each of the storage requirements of Rule 62 711.540, F.A.C.
- A copy of the emergency preparedness manual for the facility with a statement of the on site and off site locations where that manual will be maintained.
- 7. A copy of the fire safety survey
- 8 A description of how 75% of the annual accumulation of waste tires will be removed for disposal or recycling.
- C. Completed closing plan for the facility as required by Rule 62 -711.700(2) and (3), F.A.C.

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- D. Attach proof of financial responsibility as requirement by Rule 62 -711.500(3) OR a calculation showing that financial assurance documents, currently on file with the Department, are sufficient to assure closing of the waste tire site as well as any other solid waste management facility at that location.
- E. A letter from the land owner (if different from applicant) authorizing use of the land as a waste tire pr ocessing facility.

	idenity.		
F.	If waste tires will be consumed or diposed of at the permits that the applicant has for this use, including	ne facility, attach a description of the other envi ng, permit number, date of issue, and name of i	ronmental ssuing agency
G.	The permit fee as required in Rule 62-4, F.A.C.		
Part	IV-Certification:		
A.	Applicant:		
The Furth regul	information in this application is true, correct and conter, the undersigned agrees to comply with the providations of the Department. It is understood that the efacility.	d information are an application for a Department of Environmental Protection and ce Implete to the best of his knowledge and belief. Visions of Chapter 403, Florida Statutes, and al	ertifies that
	Signature of Applicant or Authorized Agent	Name and Title	Date
profes the St	This is to certify that the engineering features of the gned/examined by me and found to conform to engineering judgment, this facility, when properly maintate of Florida and rules of the Department. It is aging instructions for proper maintenance and operation	ineering principals applicable to such facilit ies iined and operated will comply with all applicab reed that the undersigned will provide the appl	le statues of
	Digitally signed by Susan J. Pelz, P.E.	PO Box 961	
Susa	Susan J. Pelz, P.E. Signature Signature Signature Signature J. Pelz, O=Pelz Environmental Services Inc., ou, email=Susan@PelzE	Mailing Address Brandon, FL 33509	
5083	Name and ite	City, State, Zip 813-447-0054	
	Florida Registration Number	Telephone number	
(please	e affix seal)	Date	

Engineering Report

Waste Tire Processing Facility
507 Nilsen Street
Haines City, FL 33844

February 2020

Prepared for:
Robert and Sons Tires Corporation
507 Nilsen Street
Haines City, FL 33844



Prepared by:
Pelz Environmental Services, Inc.
PO Box 961
Brandon, FL 33509
Certificate of Authorization No. 30910

This item has been digitally signed and sealed by Susan J. Pelz, P.E. (FL PE# 50835) on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



Susan J. Pelz, P.E.

Digitally signed by Susan J. Pelz, P.E. DN: cn=Susan J. Pelz, P.E., o=Pelz Environmental Services Inc., ou, email=Susan@PelzEnvServices.com, c=US

Date: 2020.02.22 13:55:51 -05'00'

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Appendix B – Drawings

Appendix C – Notice of Application

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Appendix E – Deed and Letter of Authorization

1. Introduction

This application is to construct, operate and close and a waste tire processing facility located at 507 Nilsen Street, Haines City, FL 33844. Information required by Chapter 62-711, Florida Administrative Code (F.A.C.) to permit a waste tire processing facility is included herein, and is signed and sealed by a registered professional engineer in the state of Florida as required.

"Processing" (Rule 62-701.200(88), F.A.C.) means any technique designed to change the physical, chemical, or biological character or composition of any solid waste so as to render it safe for transport, amenable to recovery, storage or recycling; safe for disposal; or reduced in volume or concentration. Although this application is for a waste tire processing facility, no "processing" (as defined in this Rule) will be conducted at the facility.

The facility operation includes receipt of waste tires from tire dealers/brokers, sorting the tires by sizes, checking the tires for air tightness, placing ("combining") smaller tires inside larger tires, and then shipping the "combined" tires to Puerto Rico for resale and use on motor vehicles.

2. General Provisions [Rule 62-711.300(1), F.A.C.]

General provisions relating to solid waste management may be found in Chapter 62-701, F.A.C., including statements of intent, definitions, prohibitions, general permitting requirements, alternate procedures, and forms. Except where the context indicates otherwise, these general provisions apply to this chapter [62-711, F.A.C.].

The prohibitions and general permitting requirements are addressed in this Engineering Report.

2.1. Solid Waste Prohibitions [Rule 62-701.300, F.A.C.]

This Section addresses each of the Prohibitions listed in Rule 62-701.300, F.A.C. The Rule citation is provided in italics, followed by related site-specific information.

- (1) General prohibition.
 - (a) No person shall store, process, or dispose of solid waste except as authorized at a permitted solid waste management facility or a facility exempt from permitting under this chapter.

This application is for a Waste Tire Processing Facility permit.

(b) No person shall store, process, or dispose of solid waste in a manner or location that causes air quality standards to be violated or water quality standards or criteria of receiving waters to be violated.

Solid waste will not be stored, processed or disposed at this facility in a manner or location that causes Department air or water quality standards or criteria to be violated. The facility will manage waste tires inside a building and in closed trailers.

(2) Siting. Unless authorized by a Department permit or site certification in effect on May 27, 2001, or unless specifically authorized by another Department rule or a Department license or site certification

based upon site-specific geological, hydrogeological, design, or operational features, no person shall store or dispose of solid waste:

(a) In an area where geological formations or other subsurface features will not provide support for the solid waste;

The facility will manage waste tires inside a building with a concrete floor and in closed trailers on a paved parking area. In addition, available sinkhole data was reviewed and as shown in **Figure 1**, the closest reported occurrence is approximately 1.5 miles away from the **Robert and Sons Tires [RST]** site. Based on visual inspection conducted in May 2019, no evidence of unstable subsurface conditions were observed onsite or within 500 feet of the site.

(b) Within 500 feet of an existing or approved potable water well unless storage or disposal takes place at a facility for which a complete permit application was filed or which was originally permitted before the potable water well was in existence. This prohibition shall not apply to any renewal of an existing permit that does not involve lateral expansion, nor to any vertical expansion at a permitted facility;

Available information from FDEP, Florida Department of Health (FDOH), Southwest Florida and Water Management District (SWFWMD) regarding the locations and uses of water wells in the area was reviewed. **Figure 2** shows that the nearest wells are greater than 800 feet away from the facility. Well Construction Permit (WCP) #639176 (approx. 872 ft. away) is a groundwater monitoring well for the State of Fla. Department of Military Affairs. WCP #832921 (approximately 990 ft. away) was for abandonment of three wells.

Field verification was conducted in May 2019. No potable wells were identified within 500 ft. of the facility.

(c) In a dewatered pit unless the pit is lined and permanent leachate containment and special design techniques are used to ensure the integrity of the liner;

The facility is not in a dewatered pit.

(d) In any natural or artificial body of water including ground water and wetlands within the jurisdiction of the Department. This prohibition also applies to areas where waste may settle into ground water as a result of the maximum expected loads over the waste. This prohibition does not apply to areas of standing water that exist only after storm events, provided that the storage or disposal does not result in objectionable odors or sanitary nuisances;

The facility is not in a natural or artificial waterbody or groundwater.

(e) Within 200 feet of any natural or artificial body of water unless storage or disposal takes place at a facility for which a complete permit application was filed or which was originally permitted before the water body was in existence. This prohibition shall not apply to any renewal of an existing permit that does not involve lateral expansion, nor to any vertical expansion at a permitted facility. For purposes of this paragraph, a "body of water" includes wetlands within the jurisdiction of the Department, but does not include impoundments or conveyances which are part of an on-site, permitted stormwater management system, or bodies of water contained completely within the property boundaries of the disposal site which do not discharge from the site to surface waters. A person may store or dispose of solid waste within the 200 foot setback area upon demonstration to the Department that permanent leachate control methods will result in compliance with water quality

standards and criteria. However, nothing contained herein shall prohibit the Department from imposing conditions necessary to assure that solid waste stored or disposed of within the 200 foot setback area will not cause pollution from the site in contravention of Department rules; and,

Available information from FDEP and SWFWMD regarding the locations waterbodies within 200 ft. of the site was reviewed. **Figure 3** shows the locations of surface water bodies in the vicinity of the site. The closest water body is approximately 630 ft. from the **RST** facility.

(f) On the right of way of any public highway, road, or alley.

The facility is not on a right of way. The survey provided in **Appendix D** identifies the right-of way for Nilsen Street.

(3) Burning. Open burning of solid waste is prohibited except in accordance with Chapter 62-256, F.A.C. Controlled burning of solid waste is prohibited except in a permitted incinerator, or in a facility in which the burning of solid waste is authorized by a site certification order issued under Chapter 403, Part II, F.S.

No open burning will be conducted at the facility.

(4) Hazardous waste. No hazardous waste shall be disposed of in a solid waste management facility unless such facility is permitted pursuant to Chapter 62-730, F.A.C.

Hazardous waste will not be accepted at the facility. Only waste tires will be accepted and managed at the facility.

(5) PCBs. Disposal of liquids containing a polychlorinated biphenyl (PCB), or non-liquid PCBs in the form of contaminated soil, rags, or other debris, may be restricted or prohibited by 40 CFR Part 761. Persons managing PCBs are advised to consult that federal regulation before attempting to dispose of PCBs in any solid waste disposal unit in this state.

Liquids containing PCBs will not be accepted at the facility. Only waste tires will be accepted and managed at the facility.

- (6) Biomedical waste.
 - (a) No biomedical waste shall be knowingly deposited in any solid waste management facility unless:
 - The solid waste facility is specifically permitted to receive untreated biomedical waste,
 - 2. The biomedical waste has been properly incinerated so that little or no organic material remains in the ash residue, or treated by a process approved by the Department of Health, and the provisions in paragraph 62-701.520(5)(d), F.A.C., are complied with, or
 - 3. The biomedical waste is generated by an individual as a result of self-care, or care by a family member or other non-health care provider. However, in order to reduce the chance of exposure to the public, home generators are advised to segregate and package such waste before disposal according to the guidelines for disposal of home-generated biomedical waste available from each county health department.

- (b) No solid waste, including treated biomedical waste, shall be commingled with untreated biomedical waste unless the solid waste is being managed in the same manner as the untreated biomedical waste.
- (c) Treated or untreated biomedical waste shall not be allowed to leak into the environment during transport.

Biomedical waste will not be accepted at the facility. Only waste tires will be accepted and managed at the facility.

(7) Class I surface waters. The Department shall not issue a construction permit for a landfill within 3,000 feet of Class I surface waters.

The facility is not a landfill.

- (8) Special wastes for landfills.
 - (a) No person who knows or who should know of the nature of such solid waste shall dispose of the following wastes:
 - 1. Lead-acid batteries in any landfill,
 - 2. Used oil in any landfill, except as provided in Chapter 62-710, F.A.C.,
 - 3. Yard trash in a Class I landfill, except as may be allowed pursuant to Section 403.708(12)(c), F.S.; and,
 - 4. White goods in any landfill.
 - (b) Whole waste tires may not be disposed of in any landfill or in any construction and demolition debris disposal facility, except as provided in Chapter 62-711, F.A.C.

The facility is not a landfill.

(9) Special wastes for waste-to-energy facilities. No person who knows or who should know of the nature of such solid waste shall dispose of lead-acid batteries, mercury-containing devices, or spent mercury-containing lamps in any waste-to-energy facility.

The facility is not a waste-to-energy facility.

- (10) Liquids restrictions.
 - (a) Non-containerized liquid waste shall not be placed in solid waste disposal units which accept household waste or construction and demolition debris for disposal unless:
 - 1. The liquid waste is household waste other than septic waste, or
 - 2. The liquid waste is leachate or gas condensate derived from the solid waste disposal unit, or byproducts of the treatment of such leachate or gas condensate, and the solid waste disposal unit is lined and has a leachate collection system.
 - (b) Containers holding liquid waste shall not be placed in a solid waste disposal unit unless:
 - 1. The container is a small container similar in size to that normally found in household waste,

- 2. The container is designed to hold liquids for use other than storage, or
- 3. The waste is household waste.
- (c) Containers or tanks twenty gallons or larger in capacity shall either have one end removed or cut open, or have a series of punctures around the bottom to ensure the container is empty and free of residue. The empty container or tank shall be compacted to its smallest practical volume for disposal.

The facility will not accept liquid wastes. Only waste tires will be accepted and managed at the facility.

- (11) Used oil and oily wastes.
 - (a) Except as provided in paragraph (b), of this subsection, no person may mix or commingle used oil with solid waste that is to be disposed of in landfills or directly dispose of used oil in landfills.
 - (b) Oily wastes, sorbents or other materials used for maintenance or to clean up or contain leaks, spills or accidental releases of used oil, and soils contaminated with used oil as a result of spills or accidental releases are not subject to the prohibition in paragraph (a), of this subsection.

The facility will not accept used oil or oily wastes. Equipment maintenance fluids will be stored inside the building in closed, properly labeled containers. Oily wastes generated as a result of onsite spills or equipment maintenance will be stored in closed containers and removed for proper offsite disposal.

- (12) Yard trash. The prohibitions of this section apply to the storage, processing, or disposal of yard trash, except that paragraphs (2)(b) and (e), of this rule, are modified so that the following setback distances shall apply:
 - (a) 100 feet from off-site potable water wells, no setback required from on-site water wells; and,
 - (b) 50 feet from water bodies.

The facility will not accept yard trash. Only waste tires will be accepted and managed at the facility.

(13) Tanks. The prohibitions in subsection (2), of this rule, do not apply to the storage or treatment of solid waste in tanks which meet the criteria of Chapter 62-761, or subsection 62-701.400(6), F.A.C. Instead, no such storage tank shall be installed within 500 feet of any existing community water supply system or any existing non-transient non-community water supply system, nor shall any tank be installed within 100 feet of any other existing potable water supply well.

The storage or treatment of solid waste in tanks is not proposed for this facility.

(14) CCA treated wood. CCA treated wood shall not be incorporated into compost or made into mulch, decorative landscape chips or any other wood product that is applied as a ground cover, soil or soil amendment. CCA treated wood may be ground and used as initial cover on interior slopes of lined solid waste disposal facilities provided it meets the criteria of subsection 62-701.200(53), F.A.C. CCA treated wood shall not be disposed of through open burning or through combustion in an air curtain incinerator.

The facility will not construct or operate an air curtain incinerator, or accept wood.

(15) Dust. The owner or operator of a solid waste management facility shall not allow the unconfined emissions of particulate matter in violation of paragraph 62-296.320(4)(c), F.A.C.

Since all processing activities occur within the building, unconfined emission of particulate matter (i.e., dust) is not anticipated. Dust from traffic areas will be controlled by watering and sweeping as needed.

(16) Indoor storage. The prohibitions in subsection (2), of this rule, do not apply to the storage or processing of solid waste indoors, provided that the indoor storage area has an impervious surface and a leachate collection system. For the purposes of this subsection, an impervious surface means either a poured concrete pad having a minimum thickness of four inches, or an asphalt concrete paving with both a minimum thickness of one and one-half inches and with an additional component to restrict leaching to ground water such as a soil cement sub-base, an epoxy seal or a geomembrane.

The facility will only accept and manage waste tires. The facility is an enclosed building with a concrete floor but does not have a leachate collection system and therefore does not meet the definition of "indoor" in Rule 62-701.200(50), F.AC. However, as described in this Engineering Report, the facility complies with the Prohibitions of Rule 62-701.300(2), F.A.C.

(17) Storage in vehicles or containers. The prohibitions in subsection (2), of this rule, do not apply to the storage of solid waste in an enclosed or covered vehicle or container, provided that such vehicle or container has either been unloaded or moved over public highways within the previous seven days, and provided also that reasonable efforts have been made to minimize leakage from the vehicle or container.

Waste tires are proposed to be stored in closed trailers on asphalt pavement that will be loaded and unloaded as part of the operation. However, as described in this Engineering Report, the facility complies with the Prohibitions of Rule 62-701.300(2), F.A.C.

(18) Existing facilities. Those portions of facilities which were constructed prior to May 27, 2001, remain subject to the prohibitions that were in effect at the time the permit authorizing construction was issued. Lateral expansions of such facilities remain subject to the prohibitions that were in effect at the time the permit authorizing the lateral expansion was issued. For example, portions of facilities constructed prior to May 19, 1994 were subject to the prohibition against storing or disposing of solid waste within 500 feet of an existing or approved shallow water supply well, but are not subject to the prohibitions of paragraph (2)(b), of this rule. However, lateral expansions of such facilities which occurred after May 19, 1994, are subject to the prohibitions of paragraph (2)(b), of this rule.

As described in this Engineering Report, the facility complies with the Prohibitions of Rule 62-701.300(2), F.A.C. (Rule effective date 3/13/16).

2.2. Waste Tire Prohibitions [Rule 62-711.400, F.A.C.]

This Section addresses each of the Prohibitions listed in Rule 62-711.400, F.A.C. The Rule citation is provided in italics, followed by related site-specific information.

(1) No person may maintain a waste tire site unless such site is an integral part of a permitted waste tire processing facility, except as provided in Rule 62-711.500, F.A.C. For the purpose of this rule, "an integral part of a waste tire processing facility" means the waste tire site is on the same property as the processing facility.

This application is for a Waste Tire Processing Facility permit.

(2) No person shall dispose of waste tires except at a permitted solid waste management facility which includes any facility permitted by the Department for the disposal of waste tires. Collection or storage of waste tires at a permitted waste tire processing facility or waste tire collection center prior to processing or use does not constitute disposal, provided that the collection and storage complies with Rule 62-711.540, F.A.C. Collectors are advised that it has been the experience of the Department that local law enforcement officers frequently prosecute persons who illegally dispose of waste tires under Section 403.413, F.S.

This application is for a Waste Tire Processing Facility permit. No disposal will occur onsite.

(3) Whole waste tires may not be disposed of in a landfill. Waste tires that have been cut into sufficiently small parts may be disposed of or used as initial cover at a permitted landfill.

This application is for a Waste Tire Processing Facility permit. No disposal will occur onsite. Unsuitable whole waste tires will be transported to an authorized waste tire processing or disposal facility. Processing residuals (not whole tires), and other wastes will be disposed of with office trash.

- (4) No person shall store waste tires unless the waste tires are:
 - (a) Collected and stored at a permitted waste tire collection center;
 - (b) Collected and stored before processing at a waste tire site which is an integral part of a permitted waste tire processing facility;
 - (c) Collected and stored before processing and recycling or disposal in a permitted solid waste management facility, or
 - (d) Collected and stored at a facility exempted under Rule 62-711.300, F.A.C.

This application is for a Waste Tire Processing Facility permit.

(5) No person may contract with a waste tire collector for the transportation, disposal, or processing of waste tires unless the collector is registered with the Department or exempt from registration requirements. Any person contracting with a waste tire collector for the transportation of more than 25 waste tires per month from a single business location shall maintain records for that location and make them available for review by the Department or by law enforcement officers. These records shall contain the date when the tires were transported, the quantity of tires, the registration number of the collector, and the name of the driver.

The facility will accept waste tires only from waste tire collectors registered in the state of Florida. Records required by Rule 62-711.530, F.A.C., will be maintained at the site.

2.3. Alternate Procedures [Rule 62-701.310, F.A.C.]

This application is for a Waste Tire Processing Facility permit. Alternate procedures are not requested.

2.4. Permit Requirements, General [Rule 62-701.320, F.A.C.]

This Section addresses the permit requirements listed in Rule 62-701.320, F.A.C. Rule citations are provided in italics if necessary for clarity, followed by related site-specific information.

2.4.1. Permit requirements.

This application is for permit to construct, operate and close a Waste Tire Processing Facility pursuant to Chapters 62-701 and 62-711, F.A.C.

2.4.2. Exemptions.

The facility does not qualify for the exemptions in Rule 62-701.320(2), F.A.C. This application is for permit to construct, operate and close a Waste Tire Processing Facility

2.4.3. Irresponsible applicant.

A review of FDEP databases revealed no record of violations of applicable statutes, rules, orders, or permit conditions by the applicant, Robert and Sons Tires Corp.

2.4.4. Modification of permit.

This application is for a new Waste Tire Processing Facility permit. However, in the event that changes to permitted facility construction or operational features are proposed, the applicant, Robert and Sons Tires Corp. [RST] will contact the Department to discuss the proposed changes and determine what, if any, permit modification is required.

2.4.5. Permit application.

This Waste Tire Processing Facility Permit Application includes DEP Form 62-701.900(23), and supporting documentation in electronic format, and is of sufficient detail to show how the facility will be constructed, operated, and closed. The facility is not a combination facility.

2.4.6. Engineer of record and professional certification.

The plans, reports, and information supporting this application are signed and sealed as required by the professional registered engineer who prepared them. The engineer of record will make periodic inspections during construction of the facility to ensure that design integrity is maintained. Pelz Environmental Services, Inc., Ms. Susan J. Pelz, P.E., President, FL PE No. 50835 is the Engineer of Record for the solid waste permitting project.

The Survey, included in **Appendix D**, is signed and sealed by the Professional Land Surveyor and Mapper who prepared it.

2.4.7. Application content and format.

This Application for Waste Tire Processing Facility includes (except as noted):

- (a) A transmittal letter;
- (b) Completed DEP Form 62-701.900(23);
- (c) The required Permit fee will be provided under separate cover, or submitted electronically through the DEP Business Portal;

- (d) Engineering Report;
- (e) Appendices (see Table of Contents);
- (f) Plans and drawings see Appendix B;
- (g) Property ownership documentation and Boundary survey See Appendix D and Appendix E;
- (h) County recycling This section is not applicable to this facility.
- (i) History of enforcement actions.

A review of FDEP databases revealed the applicant, Robert and Sons Tires Corp., Mr. Robert Vargas, President, has no record of violations of applicable statutes, rules, orders, or permit conditions.

2.4.8. Notice of application.

RST will publish and provide proof of publication to the Department of a Notice of Application in a newspaper of general circulation in the area where the facility will be located. This notice will conform to the requirements of Rule 62-110.106, F.A.C., except that the notice will be published within 14 days of submittal of a permit application to the Department. Proof of publication will be submitted to the Department when available. **Appendix C** includes the *Notice of Application* text to be published. Since the facility is not a landfill, providing notices to elected officials is not applicable.

2.4.9. Issued Permit.

(a) Certification of Construction Completion.

The facility building and parking areas are existing. No construction is proposed for this application. The interior of the building has been configured to meet the requirements of Rule 62-711.540, F.A.C. Equipment used for the operation is portable. The Drawings included in **Appendix B** show the configuration of the facility and demonstrate compliance with the storage requirements of Chapter 62-711, F.A.C.

(b) Permit duration.

Since this application is for a new permit, and the facility does not have leachate collection, this application is for a **5-year permit**.

2.4.10. Permit renewals.

RST will submit a timely and sufficient renewal application **prior to sixty days** before expiration of its initial permit. The permit renewal application will demonstrate how **RST** will comply with any applicable new or revised laws or rules relating to construction, operation, or closure of the facility. The Operation Plan, Contingency Plan and Closure Plan will be updated at least **once every five years** to reflect changes in the facility design ad operation.

2.4.11. Permit transfers.

In the event that the facility is sold or transferred, **RST** will notify the Department's Southwest District office, and will complete the appropriate portion of DEP Permit Transfer Form 62-701.900(8).

2.4.12. Identification number.

This application is for a new permit. The FDEP facility ID number has not yet been established.

2.4.13. Airport safety.

The facility will only accept and process waste tires inside a building or in closed trailers. No putrescible wastes will be accepted, stored, processed or otherwise managed at the facility. Since the facility does not accept putrescible waste for disposal, processing, or recycling and is not co-located with other solid waste facilities that accept putrescible wastes, the airport safety requirements of Rule 62-701.320(13), F.A.C. are not applicable.

2.4.14. Other facility permits.

The facility does not include an air curtain incinerator, solid waste combustor, soil treatment facility, used oil processing facility or composting facility.

2.4.15. Operator and spotter training and special criteria.

Chapter 62-701, F.A.C., requires training for landfill operators and spotters, and waste processing facility operators and spotters. Rule 62-701.710(1)(a), F.A.C., specifically exempts waste tire processing facilities from the requirements (including operator and spotter training) of that Section. Since the facility is a Waste Tire Processing Facility, operator and spotter training is not required.

2.4.16. Emergency preparedness and response.

RST has a Contingency Plan to cover operational interruptions and emergencies such as fires, explosions, natural disasters, extended equipment downtime and insufficient staffing. The Contingency Plan is presented in **Section 4** of the Operation Plan.

3. Waste Tire Site Notification and Requirements [Rule 62-711.500, F.A.C.]

3.1. Site Notification [Rule 62-711.500(1), F.A.C.]

The owner or operator of any waste tire site shall provide the Department with information concerning the site's size, location, and the quantity of waste tires accumulated at the site. Form 62-701.900(20) shall be used for such information, and shall include the following:

Name of owner and operator:

- Robert and Sons Tires Corp.
- A letter of authorization from the property owner for the applicant to use the property for a waste tire processing facility is included in **Appendix E**

Mailing address of owner and operator, including the telephone number and county:

• Mailing address: 412 Vista Bahia, Penuelas PR 00624

• Owner/operator: Robert Vargas, cell 939-630-1102

Location, including the street address, township, range and section, latitude and longitude:

Facility location: 507 Nilsen St., Haines City, FL 33844

• County: Polk

Section/Township/Range: Section 19, Township 27S, Range 27E
 Latitude/Longitude: Lat. 28° 06' 56"N, Long. 81° 38' 31"W

Property size and the dimensions of the waste tire pile:

- The Polk County Property Appraiser's website indicates that the property is approximately 0.75 acres.
- Waste tires are stored inside the building and in closed trailers in stacks as shown in Sheet C 3, Storage Plan in Appendix B. Stack sizes vary based on the tire size.

Quantity of waste tires accumulated at the site.

• See Section **4.2.2**.

3.2. Waste Tire Storage [Rule 62-711.500(2), F.A.C.]

Owners or operators of waste tire sites shall meet the storage standards of Rule 62-711.540, F.A.C.

The facility configuration complies with the requirements of Rule 62-711.540, F.A.C. See Plans in **Appendix B.**

3.3. Financial Assurance [Rule 62-711.500(3), F.A.C.,]

Owners or operators of waste tire sites shall provide closing cost estimates for the quantity of waste tires on their site or the quantity of waste tires that they are permitted to have on their site, whichever is greater.

3.3.1. Cost estimates.

Closing costs have been calculated for the loading, transportation and disposal of the maximum quantity of waste tires, processed tires and residuals that may be at the site at any time. The costs are for a third-party performing the work. See Section 4.2.2 (quantity calculations), Attachment 1 - Calculations and Attachment B of the Operation Plan (Appendix A) (third-party closing cost estimate).

3.3.2. Proof of Funding.

Upon receipt of FDEP approval of the closing cost estimate, the financial assurance mechanism will be funded and proof of funding will be submitted.

3.3.3. Closing Plan.

See **Section 3** in the Operation Plan (**Appendix A**).

4. Waste Tire Processing Facility Requirements [Rules 62-711.500(1)(e), .500(2), .530 and .540, F.A.C.]

4.1. Facility Design

The facility includes an existing concrete building with storage and processing areas, a loading dock, office area and paved parking lot. The site is fenced and has two gates. The building has an automatic sprinkler system, public water and sewer service. Tires are stored inside the building and in a maximum of three enclosed trailers (each 53 ft. x 8 ft. semi-truck trailers) in the paved parking area.

Additionally, the building has no adjacent structures, and there are no unit heaters, space heaters or furnaces in the building.

The building has an automatic sprinkler system for fire protection. The clearance from the top of the tire stacks to sprinkler heads is at least three feet.



Photo 1 - Sprinkler System Clearance

4.1.1. Traffic.

As shown on **Sheet C-2, Traffic Flow** (**Appendix B**), inbound trucks enter through the north gate and proceed to the south covered canopy to unload. After unloading, the empty trucks exit through the west gate and proceed to Nilsen Street.

Outbound trucks approach the site via Nilsen Street and back into the truck loading dock. Processed ("combined") tires are loaded manually onto outbound trailers for shipment to Puerto Rico for resale.

4.1.2. Equipment.

The operation consists of receiving waste tires, sorting them by size, testing for airtightness, then placing smaller tires inside larger tires to maximize shipping quantities. The "combined" tires are then loaded into shipping containers, transported to Puerto Rico, and sold for use on motor vehicles. The Operation Plan describes the operation in detail.

The equipment used at the facility is the Tire Inspector, TI-95, manufactured by Tire Service International (https://buytsi.com), and Coton Tyre Tripling machine (https://coton-export.com/tyre-tripling-machine-2/). This equipment is pneumatically powered but is manually operated and throughput varies based on the experience of the operator. Whole tires are not cut, shred, sheared or otherwise size reduced at the facility. Tires are sorted and moved manually using hand trucks.

4.2. Storage and Processing Capacity [Rules 62-711.530(1), (2) and (3), and 62-711.540(2), F.A.C.]

Since the facility does not change the physical, chemical, or biological character or composition of the waste tires, the proposed storage limit for the facility is based on the available storage space that meets the requirements of Rule 62-711.530(1), F.A.C., and associated financial assurance.

4.2.1. Daily throughput of the processing equipment. [Rule 62-711.530(2)(a), F.A.C.]

All tires received at the facility are whole tires intended for resale and use on motor vehicles. Thus, the waste tires managed at the facility meet the definition of "used tires" in Rule 62-701.200(123), F.A.C.

Waste from the Facility operation includes office trash, litter that may be received in the inbound tires, and a small percentage of the waste tires that fail the leak test and cannot be repaired. This waste is placed in a 90 gallon roll-cart which is emptied during normal weekly trash pickup. The residue container is located under the overhang in the loading dock as shown on **Sheet C-3**, **Storage Plan**.

Whole tires that fail the leak test will be stored near the loading bay door in the warehouse. A maximum of three (3) whole tires may be stored prior to the operator taking them separately to the Landfill for disposal.

Since the tires are not processed, storage quantities are not based on processing equipment throughput.

4.2.2. Available storage area

As shown on the **Storage Plan, Sheet C-3,** the storage configuration in the building complies with the requirements of Rule 62-711.540(2), F.A.C. Specifically,

- Tire stacks not located along a wall [Locations 10 and 11 on **Sheet C-3**] are less than 50 ft. in width. Locations 10 and 11 are 21 ft. wide. All other storage areas are narrower.
- Tire stacks located against a wall [Locations 2-9 and 12 on **Sheet C-3**] are a maximum of 25 ft. wide. Location 12 is 25 ft. wide. All other storage locations are narrower.
- The width of main aisles between the stacks is a minimum of 8 ft.

Non-trailer storage

For storage of tires not in trailers, the quantities listed on the **Storage Plan, Sheet C-3** were estimated based on: area available for each storage location, average tire diameter of 24-inches, and stacks a maximum of 12 tires high. All tire storage areas in the building contain single tires, barrel stacked.

Example calculation:

Since whole tires are being stored, the length and width of each storage area determines the number of tires for that area.

For Storage Location 10: length = 52 ft., width = 21 ft.

Number of 24-inch dia. tires that can be stored in 52 ft. space = 52/2 = 26 tires

Number of 24-inch dia. tires that can be stored in 21 ft. space = 21/2 = 10.5 tires, use 10

For 52 ft. x 21 ft. area, number of tire stacks = $26 \times 10 = 260 \text{ stacks}$.

Each stack is 12 tires high, so total number of tires in Location $10 = 260 \times 12 = 3,120$ tires.

<u>Storage in Trailers</u> - All trailers are approximately 53 ft. long x 8 ft. wide x 8 ft. high. See Attachment 1 - Calculations.

The State of California [Ref 1] has developed a method for estimating the number of passenger tires based on pile size and configuration (loose - 10 tires/cy, barrel stacked - 12 tires/cy, and laced - 14 tires/cy). Illustrations of these configurations are included in Attachment 1.

Also, since shipping regulations limit the weight of cargo containers, the maximum number of tires may be based on weight instead of volume, whichever results in fewer tires. Container Technology, Inc. [Ref 2] (http://containertech.com) states that a 53ft High Cube shipping container can hold 3,857 cubic feet of cargo with a maximum payload of 56,090 lbs.

Inbound trailer (Location 1a)

The inbound trailer (Location 1a) is assumed to be full of single (i.e., not "combined") tires, received loose in the trailer. The inbound trailer is estimated to contain 1,429 single, loose tires. Only one inbound trailer will be at the site at any time.

of tires = 3,857 cf
$$\times \frac{cy}{27 cf} \times \frac{10 \text{ tires}}{cy}$$
 = 1,429 tires

Outbound trailer (Location1b)

The outbound trailer (Location 1b) is assumed to be full of doubled or tripled tires that are laced. Only one loaded outbound trailer will be at the site at any time.

Assuming 90% of outbound tires are doubled, 10% are tripled, and the tires are laced when placed in the trailer, 4,198 tires can fit in the container. However, since there are approximately 100 tires/ton, 4,198 tires = 41.98 tons x 2,000 lb/ton = 83,960 lbs which is in excess of the allowable weight for transportation.

Thus, based on weight restrictions reported in Ref [2], the maximum number of tires that can be placed in an outbound trailer is:

of tires =
$$56,090lb \times \frac{ton}{2000lb} \times \frac{100 \text{ tires}}{ton} = 2,805 \text{ tires}$$

Ref [3] containers are slightly different width and height and have a maximum payload of 56,750 lbs. This equates to 2,828 tires. Since the difference in tire quantity based on container variation (2,805 vs. 2,828) is minimal (1%), 2,805 tires is used as a reasonable estimate for tires in the outbound container. Also since the number of tires in the container is limited by shipping weight restrictions, it is not necessary to specify how many are doubled, tripled or single tires in the outbound trailer.

Onsite storage trailers (Location 13)

In order to allow access to various sizes of tires, onsite storage trailers will typically not be full. However, for purposes of financial assurance, these trailers are assumed to be full of single tires, barrel stacked.

of tires = 3,857 cf
$$\times \frac{cy}{27 cf} \times \frac{12 \text{ tires}}{cy}$$
 = 1,714 tires \times 3 trailers = 5,143 tires

Based on this, the total number of tires at the site is estimated to be 23,404 tires.

5. Plans or Drawings [Rules 62-701.320(7)(f),

5.1. General Requirements.

The Drawings provided in **Appendix B** include a north arrow and scale (as appropriate), origination date, elevations referenced to NGVD 1929, and signature and seal of the registered professional engineer who prepared them. The Drawings include:

- Cover Sheet that includes the project title, applicant's name, sheet index, legend of symbols, and
 the engineer's name, address, signature, date of signature and seal; a regional map showing the
 project location in relation to major roadways and population centers and a vicinity map which
 shows the facility location;
- Overall Site Plan (Sheet C-1) that shows total acreage of the site, fencing, gates and roads;
- Traffic Flow (Sheet C-2) that shows the traffic pattern;
- Storage Plan (Sheet C-3) that shows waste tire loading, unloading and storage areas;
- Drainage Plan (Sheet C-4) that shows stormwater flow direction, ditches and other structures;
- Fire Safety Plan (Sheet C-5) that shows fire lanes and evacuation routes in the building.

A boundary survey prepared, signed and sealed by a registered Professional Land Surveyor and Mapper is included in **Appendix D**.

5.2. Latitude and Longitude.

The latitude and longitude of the approximate center of the Waste Tire Processing Facility is Latitude 28°06′56″N, Longitude 81°38′31″ W and was determined by visual inspection of an aerial photograph and coordinates identified by Google Earth.

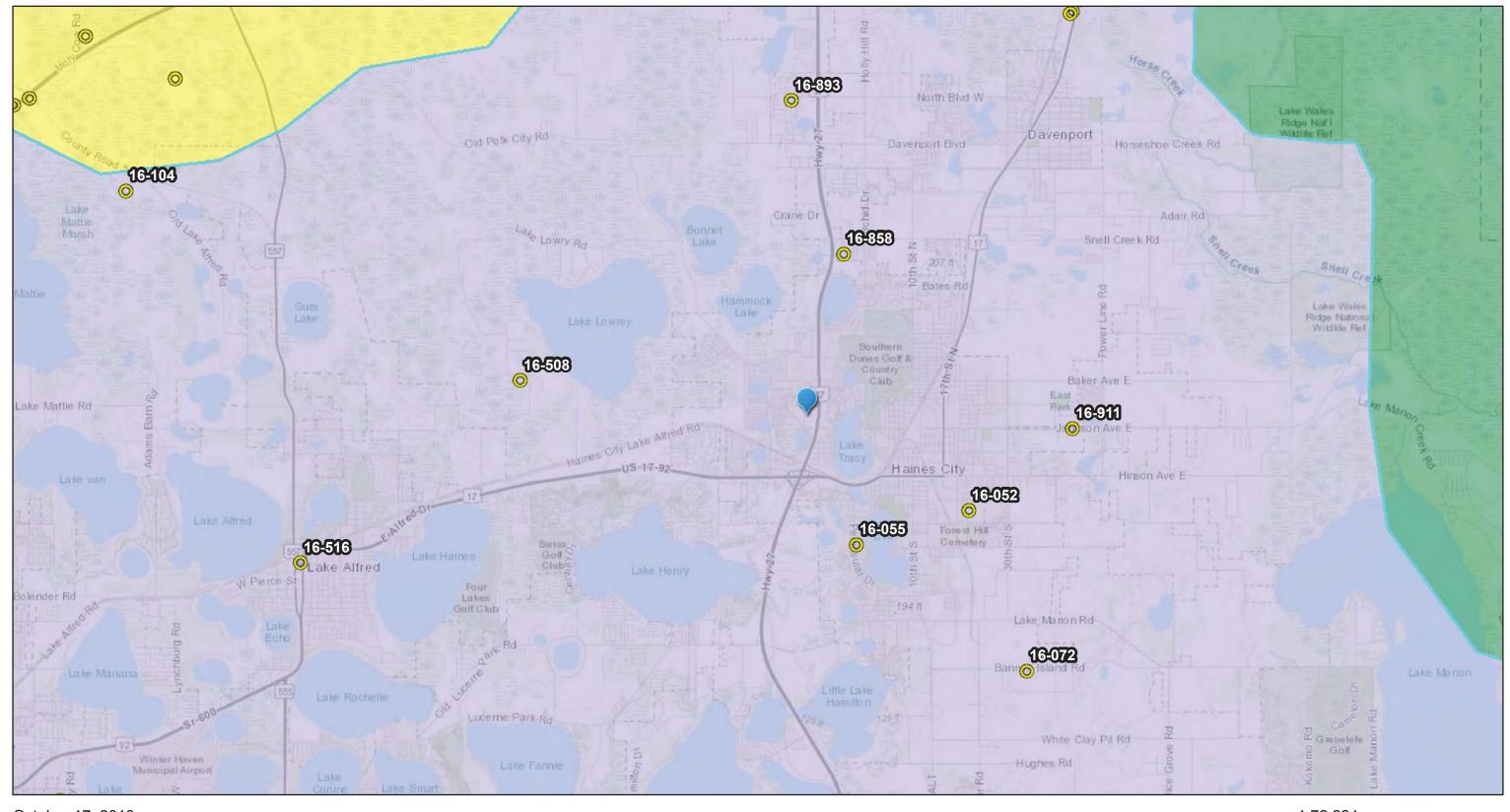
5.3. Other relevant features

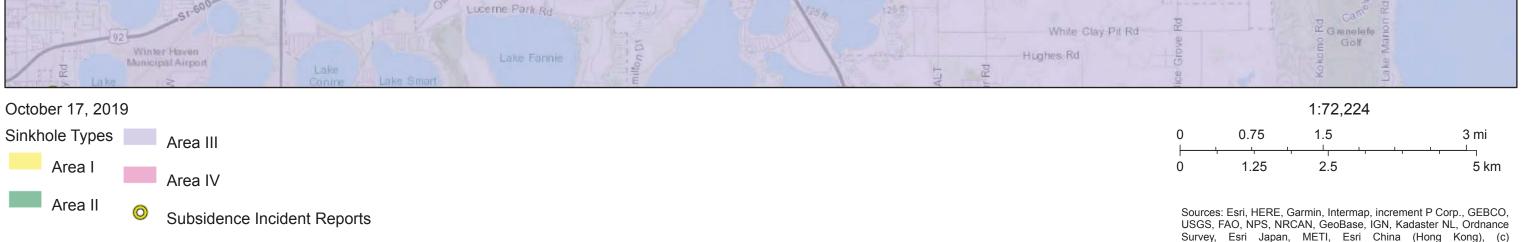
Figures 1, 2 and 3 show the location of the facility and other relevant features such as water bodies or wetlands, potable water wells and reported sinkholes.

Figure 4 is a map of the facility, including the surrounding area for one mile, no more than one year old, showing land use and zoning within one mile of the facility.

Figures

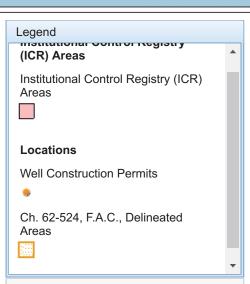
Figure 1 - SInkholes





OpenStreetMap contributors, and the GIS User Community,

FDEP,FGS, FGS



Tools

Basemaps

About

permits and are not in this dataset.
Through a MOU between the District
and Marion County Health
Department (MCHD) dated October 1,

2009, amended October 1, 2011, MCHD uses our WCP e-permitting

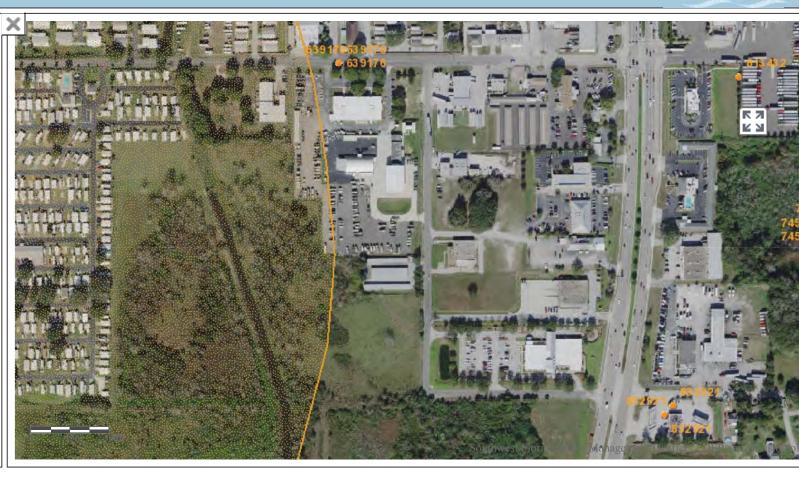
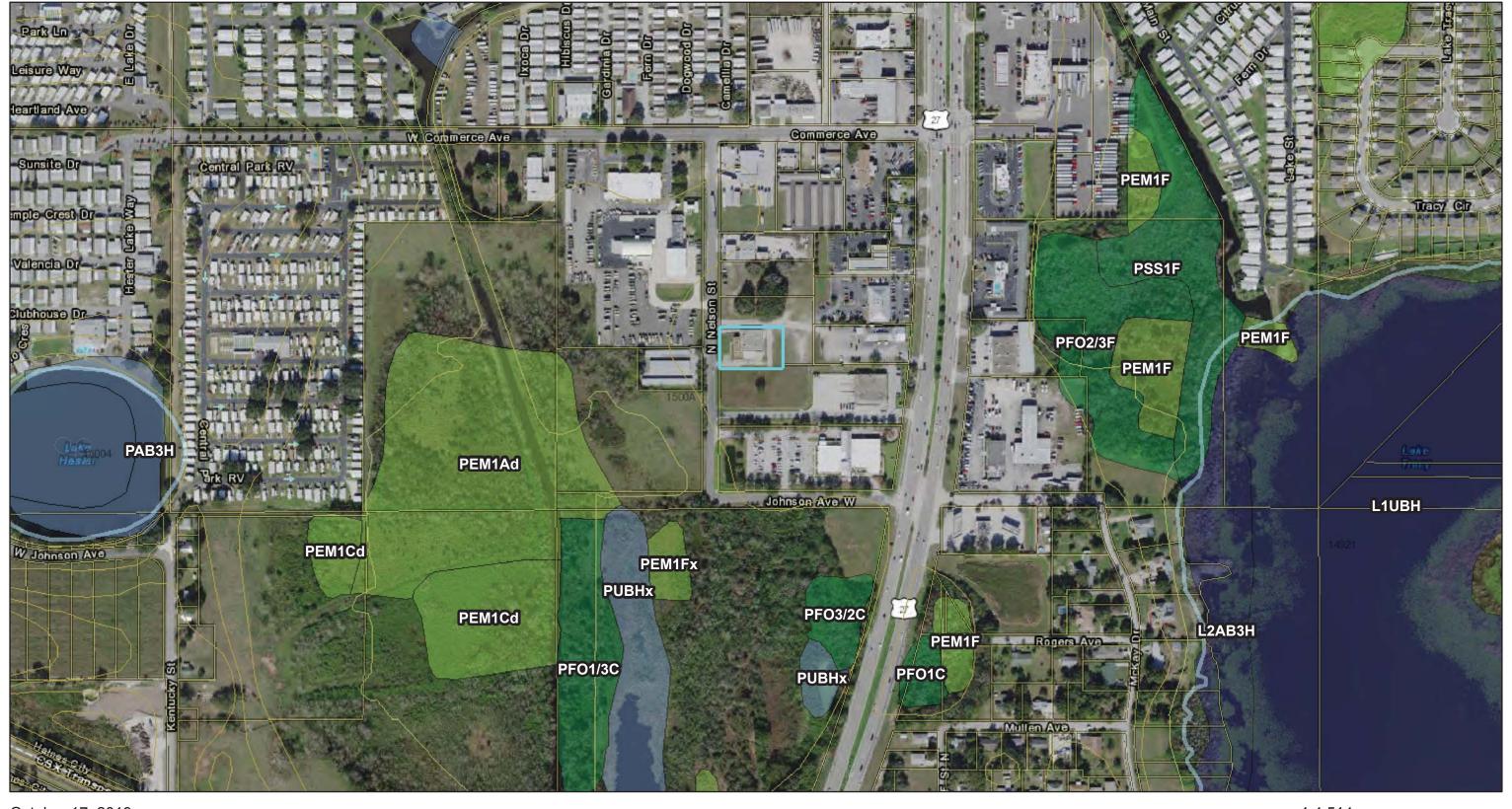


Figure 3 - Surface Water & Wetlands



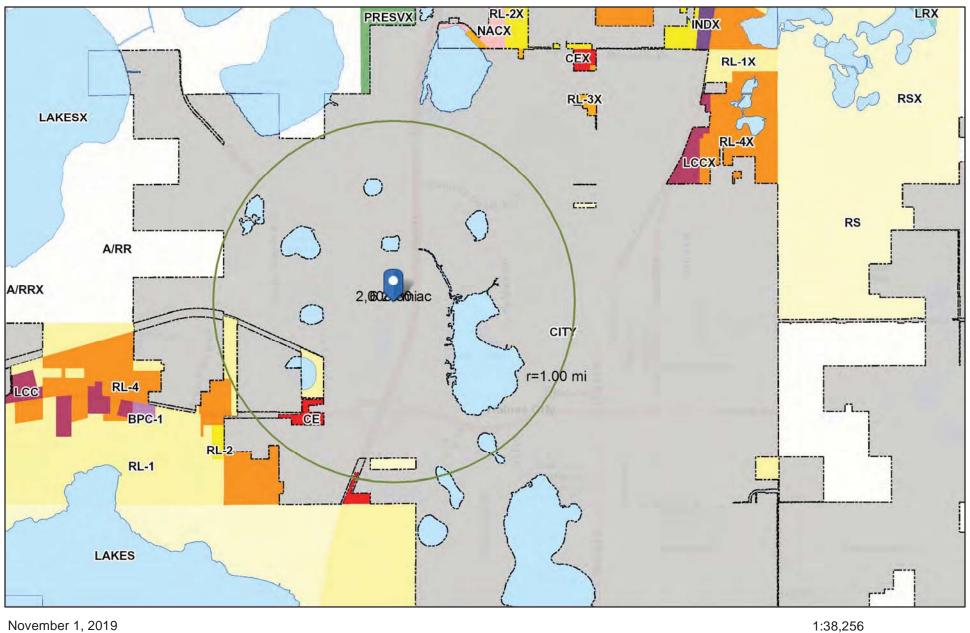


Freshwater Forested/Shrub Wetland

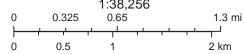
Freshwater Pond

Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, FDEP,WRM, ERP, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, FDEP, FDEP,DEAR, U.S.

Zoning, 1 mile radius



Override 1



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand),

Land Use & Zoning

Future Land Use 2030

- MU
- IAC
- CITY
- LAKES
- CC Convenience Center
- NAC Neighborhood Activity Center
- CAC Comunity Activity Center
- TC Town Center
- RAC Regional Activity Center
- HIC High-Impact Commercial Centers
- TCC Tourism Commercial Centers
- LCC Linear Commercial Corridor
- CE Commercial Enclave
- OC Office Center
- EC Employment Center
- BPC-1 Business Park Center
- BPC-2 Business Park Center
- IND Industrial

- PI Professional Institutional
- PM Phosphate Mining
- LR Lesuire/Recreation
- INST-1 Institutional
- INST-2 Institutional
- ROS Recreation Open Space
- PRESV Preservation
- CORE CARMP Core
- RCC Rural Cluster Center (Non-Residential)
- RCC-R Rural Cluster Center (Residential)
- RS Residential Suburban
- RL-1 Residential Low
- RL-2 Residential Low
- RL-3 Residential Low
- RL-4 Residential Low
- RM Residential Medium
- RH Residential High
 - A/RR Agriculture/Residential Rural
- DRI Development of Regional Impact

Attachment 1 Calculations

Robert and Sons Tires Financial Assurance Calculation

Passenger tires assumed diameter inches 24

> 2 ft

Tire stack height in building 12 tires

						Proposed
Storage Area	x, ft	y, ft	x, tires	y, tires	# tires, base	# tires, 12 high
1a	see calcula	tion				1,429
1b	see calcula	tion				2,805
2	4.5	18.9	2	9	18	216
3	11.0	8.9	5	4	20	240
4	10.0	15.6	5	7	35	420
5	7.6	5.2	3	2	6	72
6	62.8	4.1	31	2	62	744
7	66.4	66.4 7.7		3	99	1,188
8	10.0	23.7	5	11	55	660
9	10.0	37.0	5	18	90	1,080
10	21.0	52.0	10	26	260	3,120
11	21.0	52.0	10	26	260	3,120
12	25.0	45.0	12	22	264	3,168
13	see calcula	tion				5,143
					total # of tires	23,404

	tons	sf
Indoor storage Locations 2-12	140.28	5,063
Outdoor storage Locations 1a, 1b, 13	93.76	2,120
total tons	234.04	

Cost of closing

see Empire quote

Waste tires (includes loading, transportation & disposal)

2.00 per tire

46,807.37

5% 2,340.37

Contingency (residue, truck tires, and unexpected costs)

Total cost of closing \$ 49,147.74

This item has been digitally signed and sealed by Susan J. Pelz, P.E. (FL PE# 50835) on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



Susan J. Pelz, P.E.
DN: cn=Susan J.
Pelz P.E.
Dalz P.E. D. Pelz, P.E., o=Pelz EnvServices.com, c=US

Date: 2020.02.22 13:54:50 -05'00'



Date:

Robert and Sons Tires

Trailer Storage Calculation

- Ref. 1 State of California, "Determining Number of Tires", found at: https://www.calrecycle.ca.gov/Tires/Enforcement/inspections/numbertires
- Ref. 2 Container technology Inc., "53ft High Cube Container", found at: http://containertech.com/container-sales/53ft-high-cube-container-domestic/
- Ref. 3 CIMC, "Domestic 53ft Container", found at: https://www.cimcintermodalequipment.com/53ft-domestic-shipping-container/

From Ref. 1

Loose 10 tires/cy
Barrel stacked 12 tires/cy
Laced 14 tires/cy

From Ref. 2:

53 ft high cube shipping containers 3857 cf 142.85 cy

Storage area	# trailers	# tires/trailer	Total # tires
1a, Inbound: single, loose tires	1	1,429	1,429
1b, Outbound: doubled and tripled, laced tires	1	2,805	2,805
13, Onsite storage: single, barrel stacked	3	1,714	5,143

1a: Calculate number of single, loose tires per trailer

1 trailer= 142.85 cy multiplied by 10 tires/cy= 1,428.52 tires use 1,429

1b: Calculate number of single, laced tires per trailer

142.85 cv 1,999.93 tires 1 trailer= multiplied by tires/cv= 90% of the single number are doubled 1,999 assume use 1,999 90% x 2 = 3,599.87 use 3,599 assume 10% of the single number are tripled 10% x 3 = 599.70 599 1,999 use capacity based on volume **4,198** tires

Capacity based on weight of tires: 100 tires/ton

 Max. weight of tires/trailer [Ref.2]
 56,090 lbs
 2,805
 max # of tires/trailer

 56750
 2,838

13: Calculate number of single, barrel stacked tires per trailer

1 trailer= 142.85 cy multiplied by 12 tires/cy= 1,714.22 tires use 1,714

83,960 tons

Home » Tire Management » Waste Tire Enforcement » Inspections » Determining the Number of Tires

Determining the Number of Tires

If you cannot determine the number of waste tires present using a direct count alone, the resources on this page will help you to determine the approximate number of tires at a site using volumetric estimation. Numbers of whole waste tires are estimated by volume (in cubic yards). Numbers of altered tires (in passenger tire equivalents) can be estimated by volume or by weight. When using waste tire volumes or weight to estimate the number of waste tires present, inspectors must **deduct 20% from every estimate to yield a conservative estimate with an adequate margin of error**. Before determining the number of waste tires, make sure you understand the <u>definitions of waste and other tires</u>. For inspection purposes, only waste tires are counted toward total number of tires allowed.

- Estimating Volume of Tire Piles
- Converting Cubic Feet to Cubic Yards
- Converting Cubic Yards to Number of Tires
- Converting Pounds to Passenger Tire Equivalents (PTE)
- Passenger Tire Equivalents Guide

Estimating Volumes of Tire Piles

Use the <u>Waste Tire Math Reference</u> to estimate volumes of various shapes of waste tire piles you encounter in the fold. Depending on the waste tire pile configurations you find, you may need to:

- Break up the pile(s) into separate volume shapes.
- Calculate the volume for each volume shape using the appropriate formula based on their shape.
- Combine the individual volumes for the total pile volume estimate.

Converting Cubic Feet to Cubic Yards

Once you have calculated the volume of the tire pile(s) in cubic feet, you need to convert the volume to cubic yards as follows:

Volume (in cubic feet) \div 27 = Volume (in cubic yards)

Converting Cubic Yards to Number of Tires

Once you have determined the volume of the waste tire pile(s) in cubic yards, multiply the cubic yards by the appropriate conversion factor as listed in the tables below for whole or altered tires. To use this table you will need to know the height of the tire pile, how the waste tires are stored, and approximately how long the waste tires have been stored.

Whole Passenger/Light Truck Tires

Storage Type	Height of Tire Pile						
(Stored less than 15 years)	(<10 feet)	(10-15 feet)	(>15 feet)				
Loose	10 tires/cy	12 tires/cy	14 tires/cy				
Barrel	12 tires/cy	14 tires/cy	16 tires/cy				
Laced	14 tires/cy	16 tires/cy	18 tires/cy				
(Stored 15 years or more)							
Loose	12 tires/cy	14 tires/cy	16 tires/cy				
Barrel	14 tires/cy	16 tires/cy	18 tires/cy				
Laced	16 tires/cy	18 tires/cy	20 tires/cy				

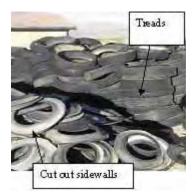
Whole Semi-Truck Tires

Storage Type	Height of Tire Pile						
(Stored less than 15 years)	(<10 feet)	(10-15 feet)	(>15 feet)				
Loose	2.5 tires/cy	2.75 tires/cy	3.0 tires/cy				
Barrel	4.2 tires/cy	4.4 tires/cy	4.6 tires/cy				
Laced	4.1 tires/cy	4.3 tires/cy	4.5 tires/cy				
(Stored 15 years or more)							
Loose	3.0 tires/cy	3.5 tires/cy	4.0 tires/cy				
Barrel	4.4 tires/cy	4.6 tires/cy	4.8 tires/cy				
Laced	4.3 tires/cy	4.5 tires/cy	4.7 tires/cy				

Altered Tires

What Is a Waste Tire? Page 4 of 5

tire site that had implied access when the picture was taken. Tires such as the ones in this picture are counted as waste tires since they are piled together and are not part of a used tire dealer's business.



The sidewall cutouts in the picture at left are indicative of some kind of processing of waste tires for a use other than for reuse on a vehicle.

The photos below illustrate the different ways that tires might be stored. Tires that are blocked and surrounded by other stacks of tires are counted as waste tires because they cannot be inspected individually.



Loose Stacking



Laced Stacking



Barrel Stacking Horizontally



Barrel Stacking Vertically

Last updated: October 17, 2018

Tire Enforcement: https://www.calrecycle.ca.gov/Tires/Enforcement/

Contacts: Northern California: Kyle Emery. Central California: Mark Umfress. Southern California: Paul

Saldana

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53ft High Cube Container







A 53ft shipping container | storage container is considered a High Cube container. High Cube shipping containers | storage containers are 9ft 6in tall on the exterior. They are 1ft taller than standard height containers. They are also 8ft 6in wide, making them 6in wider than standard containers as well. The container is comprised of 14-gauge corrugated steel panels throughout. It has lockable double doors on one end. It is equipped with 1-1/8" thick marine plywood flooring on the interior.

Unlike 20ft and 40ft shipping containers | storage containers, 53ft shipping containers | storage containers are not utilized for international shipping. They are used primarily for domestic over the road and rail service.

53ft high cube shipping containers | storage containers are perfect for commercial, industrial and rural storage applications.

■ Get a Quote

Features:

- ✓ Secure & Watertight
 ✓ All Steel Construction
- Additional Storage at Your Location
 Portable Move as Needed

Typical Dimensions								
	Exterior			Interior			Door Opening	
	Length	Width	Height	Length	Width	Height	Width	Height
53' High Cube Dry Container	53'	8'6"	9'6″	52′ 5″	8'2"	8′ 11″	8'2"	8′ 10″

Typical Weights / Capacity				
	Cubic Capacity	Tare Weight	Max Gross	Max Payload
53' High Cube Dry Container	3857 cu. ft.	11,110	67,200	56,090

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Domestic 53ft Container Run on Rail, Road and Sea.







FOR SALES CONTACT JAMES FAN / VICE GM Mobile: (818) 629-4196 Email: james.fan@cimc.com

External	Length	53'-0"(+0" -3/8")	16 154(+0 -10) mm	



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FIND A DEALER

 $Q \equiv$

	Width	100 3/8"	2,550 mm
	Height	109 1/2"	2,781 mm
Door opening	Width	8'-2 1/8"	2,492 mm
	Height	109 1/2"	2,781 mm
Internal capacity		4,025 cu.ft	114 cu.m.
Max Gross Weight		67,200 LBS	30,480 KGS
Tare Weight		10,450 LBS	4,740 KGS
Max Pay Load		56,750 LBS	25,740 KGS

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f in @



Appendix A Operation Plan

Operation Plan

Waste Tire Processing Facility
507 Nilsen Street
Haines City, FL 33844

February 2020

Prepared for:
Robert and Sons Tires Corporation
507 Nilsen Street
Haines City, FL 33844



This item has been digitally signed and sealed by Susan J. Pelz, P.E. (FL PE# 50835) on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



Date: 02/22/20

Susan J. Pelz, P.E.

Digitally signed by Susan J. Pelz, P.F.

DN: cn=Susan J. Pelz, P.E., o=Pelz Environmental Services Inc., ou, email=Susan@PelzEnvServices.co m, c=US

Date: 2020.02.22 13:26:18 -05'00'

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Attachment A – Equipment

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1. Introduction

This Operation Plan is organized as follows:

- Section 1 includes a description of the Facility;
- Section 2 describes the Facility operations, including waste handling, equipment and traffic flow [Rules 62-701.320(7), 62-711.540(1), (2), and (4), F.A.C.]
- Section <u>3</u> includes the Closing Plan and Financial Assurance [Rules 62-711.300(7), and 62-711.500(3), F.A.C.]
- Section 4 includes the Contingency/Emergency Preparedness Plan for the Facility [Rules 62-701.320(16) and 62-711.540(1)(e), F.A.C.]; and
- Section 5 describes recordkeeping at the Facility [Rule 62-711.530(4) and (5), F.A.C.].

1.1. Purpose and Scope of the Operation Plan

This Operation Plan has been prepared for the Robert and Sons Tires [RST] Waste Tire Processing Facility permit application. Although tires will not be "processed" as defined in Rule 62-701.200(88), F.A.C., the Facility is classified by the Florida Department of Environmental Protection (FDEP) as a Waste Tire Processing Facility since greater than 1,500 tires will routinely be stored on site. This Operation Plan provides a detailed description of the daily and contingency operations of the RST Facility. The Operation Plan will be updated as operations change, and at permit renewal (if needed).

In summary, at this Facility:

The Facility Manager selects specific tires from tire dealers/brokers for management at the Facility. Only waste tires/used tires from tire dealers/brokers are received at the Facility. The primary objective of the Facility is to export tires for use on motor vehicles, so the majority of the tires managed at the Facility are used tires as defined in Rule 62-701.200(123), F.A.C.

The Facility is not open to the public. Tires are sorted by sizes and checked for air tightness. Smaller tires are then placed inside larger tire (i.e. "combined"). "Combined" tires are loaded on a trailer and shipped to Puerto Rico for resale and use on motor vehicles.

Tires are not cut, shred or otherwise processed. No disposal occurs on site. All waste tire storage is inside the building or closed trailers. Tires that fail the leak test, or are damaged and cannot be repaired, are disposed of as residue. Other wastes that may be present onsite are office trash and equipment maintenance wastes (e.g., grease, rags).

No operations involving the use of open flames will be conducted within 25 feet of a waste tire stack.

1.2.Location and Layout

The **RST** Facility will manage waste tires/used tires received from brokers/dealers in Florida and other parts of the U.S. The Facility consists of approximately 0.75 acres, and is located at 507 Nilsen Street, Haines City, FL 33844. The site is located within Section 19, Township 27S, Range 27E, in Polk County. The center of the Facility is located at Latitude 28°06′56″N and Longitude 81°38′31″ W.

The property is bounded by a fence and entrance and exit gates to control ingress and egress. The fencing and gates prevent unauthorized access and illegal dumping of materials when the Facility is not operating.

2. Facility Operations [Rules 62-701.320(7), 62-711.540(1), (2), and (4), F.A.C.]

2.1.Personnel

The Responsible Authority (Facility Manager) for the Facility is Mr. Robert Vargas, President of Robert and Sons Tires Corp. He can be contacted at (939) 630-1102, 412 Vista Bahia, Penuelas, Puerto Rico 00624, or robertandsonsdistributor@gmail.com.

The operation is typically conducted with three to four employees. At a minimum, two employees will be onsite whenever the Facility is operating. All personnel are skilled in the performance of the work to which they are assigned.

2.2. Hours and Days of Operation

The Facility operates periodically, depending on the availability of tires sizes needed by the end-user. The Facility is not open to the public.

When a sufficient number of the needed sizes are available, the Facility Manager pre-arranges deliveries of waste tires from tire brokers/dealers to the Facility. Typically, the Facility operates for 7-14 days every few months. When the Facility is operating, the hours are typically from 7:00 am to 4:00 pm, but may vary depending on incoming tire delivery schedule. At any time when an attendant is not present or the Facility is not operating, access to the site is controlled and the building, storage trailers and gates are closed and locked.

Adequate lighting for operation is provided at the Facility by light fixtures mounted inside the building and in the parking area.

2.3. Acceptable and Unauthorized Wastes

The Facility Manager obtains waste tires/used tires from tire brokers/dealers throughout the United States. Tires are specifically selected and shipped to the **RST** Facility during periods of operation. Tires with rims are not accepted. Only tires are accepted at the facility. No other waste material is accepted.

2.4. Operation Sequence

Incoming trailers approach the site from Nilsen Street on the unnamed access road north of the Facility and enter the Facility through the north gate. The trailers travel toward the unloading area in the southeast part of the site. Tires are manually unloaded, sorted and stored in the building or storage trailers based on size. When the inbound trailer is empty, it exits through the southwest gate to Nilsen Street.

After tires are received and sorted by size, they are prepared for outbound shipment. Each tire is first checked for airtightness using a TI-95, Tire Inspector (manufactured by Tire Service International (https://buytsi.com)). The tire is placed on the machine, covered with soapy water and inflated. The presence of bubbles indicates a leak. Tires that leak and cannot be repaired are set aside for disposal.

Next the Coton Tyre Tripling machine (https://coton-export.com/tyre-tripling-machine-2/) is used to place smaller tires inside of larger tires. Manufacturer's information regarding this equipment is included in **Attachment A**.

Since this operation results in up to three tires using the volume normally used by one large tire, it greatly increases the number of tires that can be transported in the outbound shipping container (trailer). The "combined" tires are manually loaded and laced in the outbound trailer at the loading dock in the northwest corner of the site.

Waste from the Facility operation includes office trash, litter that may be received in the inbound tires, and a small percentage of the waste tires that fail the leak test and cannot be repaired. This waste is placed in a 90 gallon roll-cart which is emptied during normal weekly trash pickup. The residue container is located under the overhang in the loading dock as shown on **Sheet C-3**, **Storage Plan**.

Whole tires that fail the leak test will be stored near the loading bay door in the warehouse. A maximum of three (3) whole tires may be stored prior to the operator taking them separately to the Landfill for disposal.

Based on the Facility Manager's experience with the equipment, approximately 250-300 tires can be combined per day. Records will be maintained to demonstrate that at least 75% of the tires received at the Facility are removed for disposal or recycling each year (See Section <u>5</u> for recordkeeping requirements).

2.5.Storage

As shown in **Sheet C-3, Storage Plan**, tire storage complies with the requirements of Rule 62-711.540, F.A.C. Specifically:

All tire storage areas in the building contain single tires, barrel stacked. Tires are stacked a maximum of 12 tires high.

Tire stacks not located along a wall [Locations 10 and 11] are less than 50 ft. in width. Locations 10 and 11 are 21 ft. wide. All other storage areas are narrower.

Tire stacks located against a wall [Locations 2-9 and 12] are a maximum of 25 ft. wide. Location 12 is 25 ft. wide. All other storage locations are narrower.

The width of main aisles between the stacks is a minimum of 8 ft.

Storage locations 3, 4, 5 and 8 have doorways that lead into each storage area. The doors have been removed or are open at all times to allow unobstructed access to each storage area.

If the Facility has reached its permitted capacity, no additional tires will be accepted until capacity has been restored.

2.6. Maintenance Procedures

All Facility equipment will be maintained as required by manufacturer specifications to assure its proper

operations. This includes the adjustment, repair, or replacement of worn parts before the equipment fails. Wastes from equipment maintenance may be stored onsite. The Tire Inspector and Tyre Tripling Machine are pneumatically powered, so there is no fuel or engine oil required. The air compressor is electric. Equipment maintenance generally consists of greasing moving parts, belt adjustments, and housekeeping. Solvents are not used for cleaning. Typical maintenance wastes are rags, empty grease containers, floor sweepings, etc. These wastes will be kept in a closed container inside the building in the areas identified as "Equipment" and/or "Supplies" on **Sheet C-3, Storage Plan**. When the container is full, a contractor (such as ACT, Safety Kleen, etc.) will be hired to dispose of the waste appropriately.

Inbound and outbound transportation of tires is provided by independent contractors. No vehicle maintenance is performed onsite.

2.7. Litter and Vector Control

The site will be patrolled daily for litter. Any litter observed will be picked up immediately and placed with the office trash for disposal. All tires will be stored inside the building or in closed trailers so the likelihood of vector (mosquitoes, rodents) attraction is minimal. However, if vectors are observed, the operator will initiate the appropriate pest control actions so as to protect the public health and welfare.

3. Closing Plan and Financial Assurance [Rules 62-711.300(7), and 62-711.500(3), F.A.C.]

3.1. Closing Plan

RST will provide written notification to the FDEP Southwest District Office a minimum of 60 days prior to the anticipated date of closing and ceasing operations. The notification will include a closing date along with the steps needed to close the Facility, and assurances that no additional tires will be received by the Facility after that time.

Within 30 days after providing notice of closing to FDEP, **RST** will remove all waste tires, used tires, residue and office wastes for proper disposal and the building floor will be swept. **RST** will notify FDEP that closing is complete, and arrange for a final inspection.

3.2. Financial Assurance

The maximum number of waste tires that may be at the site at any time is shown on **Sheet C-3, Storage Plan**, and discussed in the Engineering Report. A cost estimate for the loading, hauling and disposing of this quantity of tires was obtained from a third-party to perform the work. The cost estimate from Empire Tire of Edgewater LLC (Permit number 0287891-003-WT, WACS ID 95062) is included in **Attachment B.**

RST shall provide FDEP with proof of financial assurance issued in favor of the State of Florida in the amount of the FDEP-approved closing cost estimate for the Facility. This proof is included in **Attachment B**. Proof of financial assurance will consist of one or more of the following financial instruments: surety bonds, including performance bonds or financial guarantee bonds; irrevocable letters of credit; insurance; and trust funds. Financial documents will be submitted on the appropriate forms.

Annually, at least 60 days prior to the anniversary date of the approved financial assurance mechanism, revised or inflation-adjusted cost estimates will be submitted to FDEP. Upon approval of the revised or inflation-adjusted estimates, the Facility Manager will adjust the funding mechanism accordingly and provide proof of funding to FDEP.

4. Contingency/Emergency Preparedness Plan [Rules 62-701.320(16) and 62-711.540(1)(e), F.A.C.]

This Contingency (Emergency Preparedness) Plan covers operational interruptions and emergencies such fires, explosions, natural disasters, equipment failure, etc. Facility personnel will become familiar with these procedures in order to prevent environmental contamination, damage to the Facility, or injury to employees or others.

This Plan will be reviewed **annually** and when operations change, and will be updated as needed. It will be kept at the Facility at all times and will be accessible to all Facility employees. A separate copy will be maintained at the corporate office in Puerto Rico.

Sufficient equipment will be available at the Facility to implement the Contingency Plan. This equipment includes fire extinguishers, absorbent materials, etc. Access to the Facility is via Nilsen Street to the west, and the unnamed access road to the north. These roads and paved areas onsite will be kept passable for any motor vehicle at all times.

4.1. Responsible Authority

The primary contact for this Plan is the Facility Manager, Mr. Roberto Vargas. He can be contacted at (939)630-1102, 412 Vista Bahia, Penuelas, Puerto Rico 00624, or robertandsonsdistributor@gmail.com. Mr. Vargas will be available locally (Polk County) or at the site when the site is operating. When the site is not operating, it is secured (locked) and no one is present.

4.2. Notifications

In the event of an emergency at the Facility that requires outside assistance, the appropriate Agencies (based on the circumstances) will be contacted immediately.

Agency	Contact
Sheriff, Police, Fire and/or Ambulance	9-1-1
FDEP Southwest District – Solid Waste Section	(813) 470-5700 (main number)
Haines City Police Department	(863) 421-3636
Haines City Fire Department	(863) 421-3611

This list will be posted near the office and each entrance to the building to provide employees immediate access to emergency response agencies.

The FDEP Southwest District Office will be notified verbally within 24 hours of conditions that interrupt normal operations. These conditions may be caused by emergencies (e.g., fire, explosion, severe storm events that cause damage to the Facility or equipment). The Facility Manager will provide a written report to FDEP within 14 days of the verbal notification. This report will describe the origins of the emergency, the actions that were taken to deal with the emergency, the results of the actions that were taken, an analysis of the success or failure of the actions, and a schedule for further actions if needed.

In the event of an emergency at the Facility that may affect adjacent businesses, the Facility Manager will notify the **Haines City Police Department** which is located approximately 500 ft. to the southeast of the **RST** facility, and other adjacent businesses that may be affected by the emergency. The notification will describe the emergency, potential impacts and the steps being taken to minimize those impacts.

The Haines City Police and Fire Departments have been notified of the operation and have been provided Mr. Vargas' contact information. In the event of an emergency when the facility is closed, it is anticipated that the Police and/or Fire Department will alert Mr. Vargas of the situation, and will notify adjacent businesses of any imminent harm (i.e. such as from a fire). Since no one is present at the site when it is not operating, and tires are mainly stored inside a building with an automatic sprinkler system, the risk to human health and the environment in the event of an emergency (such as fire) is minimal.

4.3. Emergency Equipment

Cell phones are used for routine and emergency communications.

Primary fire protection is provided by an automatic sprinkler system in the building, a fire hydrant is located at the northwest corner of the property, and hand held fire extinguishers are located throughout the building. The **Fire Safety Plan** is shown on **Sheet C-5 of the Drawings.**

Fire extinguishers are located throughout the building. Each extinguisher will be appropriate for use in tire fires and will be checked or serviced as appropriate. Discharged (even partially) fire extinguishers will be removed and replaced with fully charged units.

4.4. Emergency Procedures

All personnel will receive fire extinguisher training. In the event of a small fire at the Facility, onsite staff will attempt to extinguish the fire with fire extinguishers. Fire extinguishers are installed throughout the building.

In the event of a large fire, the Facility Manager will call the Haines City Fire Department or 9-1-1, and the automatic sprinkler system in the building will engage to extinguish the fire. All reasonable efforts will be made to manage fire-fighting residuals, solid and liquid run-off within the building.

In the event of a fire that requires outside assistance or activates the automatic sprinkler system, the Facility will be evacuated and no additional tires will be accepted or unloaded until the emergency has passed.

If the fire cannot be extinguished or controlled within 48 hours, the Facility Manager will notify the local

fire protection agency and seek its assistance, and shall also notify the local government and any neighbors likely to be affected by the fire.

4.5.Spills

Spill cleanup materials such as absorbent materials (kitty litter, pads), drums, shovels, brooms, etc., will be available in building. Accidental spills or leaks of oil or other petroleum products from equipment or vehicles will be immediately cleaned up using absorbent materials. The oily wastes, absorbents or other materials used to clean up or contain the leaks, spills or accidental releases of oil will be stored in a closed container inside the building until it is removed for disposal by an authorized contractor.

4.6. Natural Disasters

The occurrence of severe storms such as hurricanes are usually known well in advance of the event. Since the Facility is only operated during specifically scheduled periods, operation during severe weather will be avoided.

5. Recordkeeping and Reporting [Rules 62-711.530(4) and (5), F.A.C.]

At least 75 percent of the tires that are delivered to or are stored at the Facility at the beginning of each calendar year will be removed for disposal or recycling during the calendar year.

5.1. Fire Safety

A fire safety survey from the Haines City Fire Department will be conducted **annually** to ensure that adequate fire protection is available at the site as required per Rule 62-711.540(1)(d), F.A.C. Reports of these inspections will be provided to FDEP with the quarterly report for that quarter. An initial fire safety survey is included in **Attachment C**.

5.2. Waste Tire Quantities

All tires received and shipped from the Facility will be transported by waste tire collectors registered in the state of Florida. The Facility Manager will record and maintain onsite **for three years** the following information regarding the Facility operation.

For all waste tires <u>received at the Facility</u>:

Name and waste tire collector registration number of the collector who delivered the waste tires to the Facility; and

The quantity of waste tires received from that collector.

For all waste tires shipped from the Facility:

Name and waste tire collector registration number of the waste tire collector who accepted the waste tires for transport; and

The quantity of waste tires shipped with that collector.

A sample waste tire quantity log is included in **Attachment D**. These records will be available for inspection by Department personnel during normal business hours.

5.3. Quarterly Reports

The Facility Manager will submit quarterly reports on form 62-701.900(21) (see **Appendix D**) to FDEP that summarize the Facility operations. The following information shall be included:

- (a) The Facility name, address and permit number;
- (b) The quarter covered by the report;
- (c) The total quantity, by category, of waste tires received at the Facility during the quarter covered by the report;
- (d) The total quantity, by category, of waste tires shipped from the Facility during the quarter covered by the report;
- (e) The total quantity, by category, of waste tires located at the Facility on the last day of the quarter; and,
- (f) A list of all dates on which waste tires exceeded the storage limit, and how this condition was relieved or will be relieved.

These reports will be submitted in accordance with the following schedule:

Quarter	Operation Period	Quarterly Report due to FDEP
1 st	January-March	April 20 th
2 nd	April-June	July 20 th
3 rd	July-September	October 20 th
4 th	October-December	January 20 th

Attachment A Equipment

TI-95 TIRE INSPECTOR



The TI-95 Tire Inspector includes the standard 14" to 17" expandable rim assembly.





SHIPPING SPECIFICATIONS:

40" L x 48" W x 62" H 345 lbs shipping weight

PRODUCT FEATURES

- The **TI-95 Tire Inspector** is designed to inspect non mounted tires from 13" to 24.5" in rim diameter.
- The TI-95 allows the operator to inspect tires for sidewall, tread and bead leakage on non mounted tires.
- Quick and easy inspection is accomplished by using an expandable hub and expandable rim assembly.
- The mounted tire and hub assembly rotate easily for quick and easy inspection and the convenient control panel is designed for ease of operation.
- The TI-95 has a rigid base and stand that supports all available rim sizes mounted on the hub assembly.
- A standard 1/4", 90 PSI air line operates the unit and no electricity is required.

OPT EXPANDING RIMS



09.410 (14" - 17" x 7 1/8") 10.410 (17" - 20" x 8 1/4") 11.410 (20" - 22.5" x 9") 12.410 (22" - 24.5" x 9") 13.410 (20" - 22.5" x 11 3/4") 14.710 (14" - 17" x 10") 172010 (17" - 20" x 10")

Rev. 04.23.2019



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Coton Export, ul. Błonie 4, Brzeg — Coton











Tyre tripling machine COT-3

Photo



Video



Description

With this brilliant tyre tripling machine you can easily load around 3000-3200 tyres into a 40ft container. It is perfect for making 3 or 4-tyre packs but can make even 5 or 6-tyre packs. When used properly the machine is safe both for the operator and for the tyres. It lowers the shipping cost even by two thirds! Now it comes with a more powerful top cylinder to ensure a better performance.

Specification

PNEUMATIC SYSTEM

- Air supply pressure 6 9 bar
- Required efficiency of supply system 3,2 m3/h

DIMENSIONS WITH HOUSING

- Height 320 cm
- Width 130 cm
- Length 260 cm
- Weight 584 kg

Price: €14,000



Attachment B Financial Assurance

Robert and Sons Tires Financial Assurance Calculation

passenger tires assumed diameter 24 inches

> 2 ft

height in building 12 tires

						Proposed
Storage Area	х	У	Х	У	area, sf	Approx. # of tires
1a	see calcula	tion				1,429
1b	see calcula	tion				2,805
2	4.5	18.9	2	9	18	216
3	11.0	8.9	5	4	20	240
4	10.0	15.6	5	7	35	420
5	7.6	5.2	3	2	6	72
6	62.8	4.1	31	2	62	744
7	66.4	7.7	33	3	99	1,188
8	10.0	23.7	5	11	55	660
9	10.0	37.0	5	18	90	1,080
10	21.0	52.0	10	26	260	3,120
11	21.0	52.0	10	26	260	3,120
12	25.0	45.0	12	22	264	3,168
13	see calcula	tion				5,143
					total # of tires	23,404

tons sf

Indoor storage Locations 2-12 140.28 1,169 Outdoor storage Locations 1a, 1b, 13 93.76 2,120

Cost of closing

Waste tires (includes loading, transportation & disposal)

see Empire quote

2.00 per tire

46,807.37

5% 2,340.37

Contingency (residue, truck tires, and unexpected costs)

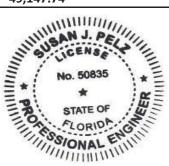
Total cost of closing \$ 49,147.74

This item has been digitally signed and sealed by Susan J. Pelz, P.E. (FL PE# 50835) on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Digitally signed by Susan J. Pelz, P.E. Susan DN: cn=Susan J. Pelz, P.E., o=Pelz Environmental Services Inc., ou, email=Susan@Pel zEnvServices.com,

Date: 2020.02.22 10:01:18 -05'00'

Date:02/22/20



Robert and Sons Tires

Trailer Storage Calculation

Ref. 1 State of California, "Determining Number of Tires", found at:

https://www.calrecycle.ca.gov/Tires/Enforcement/inspections/numbertires

Ref. 2 Container technology Inc., "53ft High Cube Container", found at:

http://containertech.com/container-sales/53ft-high-cube-container-domestic/

From Ref. 1

53 ft high cube shipping containers

3857 cf
142.85 cy

From Ref. 2:

Loose 10 tires/cy
Barrel stacked 12 tires/cy
Laced 14 tires/cy

Storage area # trailers # tires/trailer Total # tires

1a, Inbound: single, loose tires

1 1,429 1,429

1b, Outbound: doubled and tripled, laced tires

1 2,805 2,805

13, Onsite storage: single, barrel stacked

3 1,714 5,143

1a: Calculate number of single, loose tires per trailer

1 trailer= 142.85 cy multiplied by 10 tires/cy= 1,428.52 tires use 1,429

1b: Calculate number of single, laced tires per trailer

1 trailer= multiplied by tires/cy= 1,999.93 tires 142.85 cy 14 90% of the single number are doubled assume 1,999 use 90% x 2 = 1,999 3,599.87 3,599 use assume 10% of the single number are tripled 10% x 3 = 599.70 599 1,999 use capacity based on volume **4,198** tires

Capacity based on weight of tires: 100 tires/ton

Max. weight of tires/trailer [Ref.2] 56,090 lbs 2,805 | max # of tires/trailer

13: Calculate number of single, barrel stacked tires per trailer

1 trailer= 142.85 cy multiplied by 12 tires/cy= 1,714.22 tires

Susan

From: Richard Oconnor < richard@empiretirerecycling.com>

Sent: Tuesday, November 12, 2019 5:29 PM **To:** Susan Pelz (susan@pelzenvservices.com)

Subject: Waste Tires, Haines City

Flag Status: Flagged

Susan,

Following up on your conversation with Cliff earlier on today, for the waste tires located in Haines City. Empire Tire Recycling can provide the labor, transportation and disposal of the tires.

Please find listed below your pricing:

Passenger Tires (car and pick-up) \$2.00 ea. Large Truck Tires (semi-truck) \$9.00 ea.

If any off the road (loader) tires are found price will be determined by size of tire.

As Cliff mentioned we will work with you on the timing, and scheduling of the tire removal.

Thank you for the opportunity to quote.

If you have any questions, please let me know.

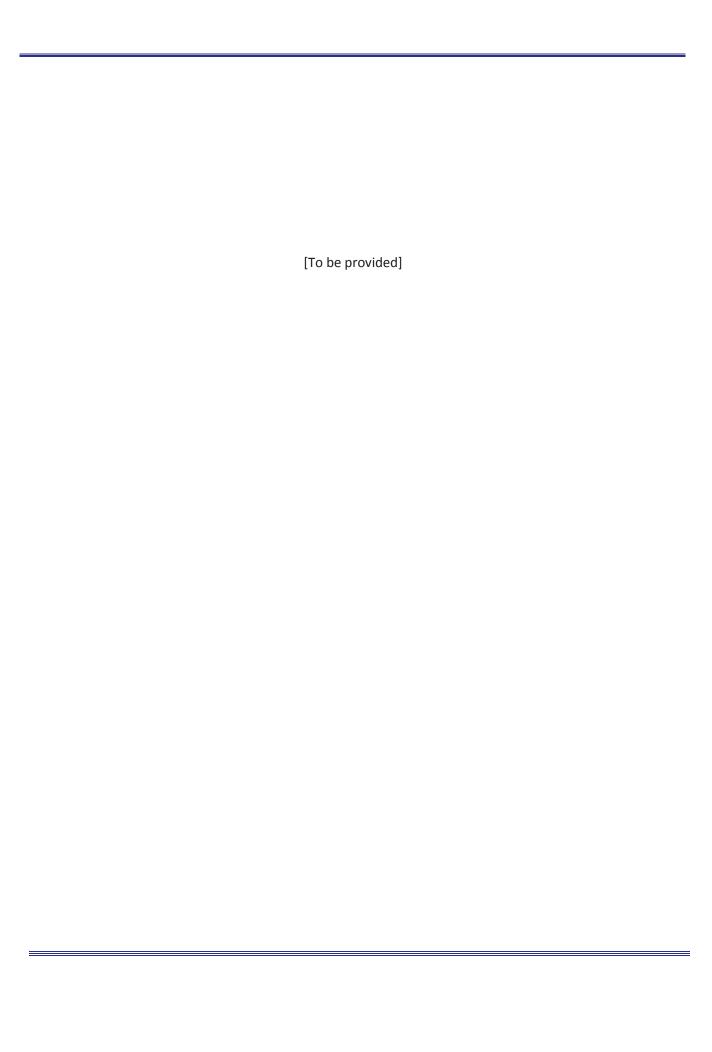
Richard O'Connor Empire Tire of Edgewater, LLC 550 N. Mission Road Orlando, FL. 32808 O: 407-250-5875

F: 407-250-5877 C: 407-575-5832

richard@empiretirerecycling.com



Attachment C Fire Safety Survey



Attachment D Recordkeeping Forms

Robert and Sons Tires Waste Tire Quantities

					Quantity	of tires
Date Received/						
Shipped	Transporter Name	Address	Phone number	WT Collector Registration #	Inbound	Outbound
	+	+		+		
		+				
		1				



Florida Department of **Environmental Protection**

2600 Blair Stone Road Tallahassee, Florida 32399-2400 DEP Form # 62-701.900(21)

Form Title: Waste Tire Processing Facility Quarterly

Effective Date: January 6, 2010

DEP Application No.

(Completed byDEP)

WASTE TIRE PROCESSING FACILITY QUARTERLY REPORT

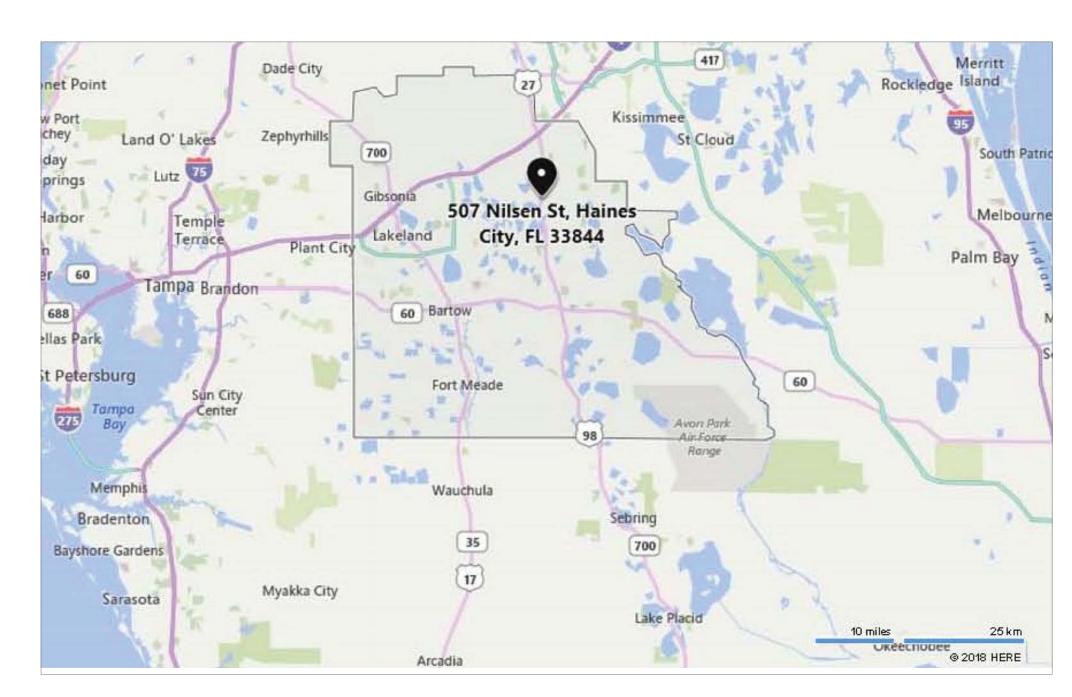
	ered by	this report		(F	First quarter be	gins on Janua	ry 1 of any given	year)
1. Facility	name:							
2. Facility	mailing	address: _						
City:				County:			Zip:	
3. Facility	permit	number:						
. Facility	telepho	one number	()					
		rson preparing						
. Affiliatio	on with	facility:						
. Teleph	one nui	mber (if differe	ent from above): <u>(</u>)				
. Activity	: Repo	ort in tons						
		Beginning Inventory	Received	Processed	Consumed	Removed	Adjustments	Ending Inventory
Used								
Other V								
Proce								
Proces	ssing							
Oth								
Tot	tal							
Explain	all inve	entory adjustm	nents					
List any			or more categ	ory of inventory	exceeded the	permitted max	imum for that cat	egory. How
List any		I in which one ition relieved?	or more categ	ory of inventory	exceeded the	permitted max	imum for that cat	egory. How
List any			or more categ	ory of inventory	exceeded the	permitted max	imum for that cat	egory. How
List any was tha	et condi	ition relieved?	the end of the				imum for that cat	
List any was tha	et condi	ition relieved?	the end of the					
List any was tha	et condi	ition relieved?	the end of the					
List any was that	et condi	s inventory at ets, if necessar	the end of the	quarter, state h	now and when	this condition v		Attach

Appendix B Drawings

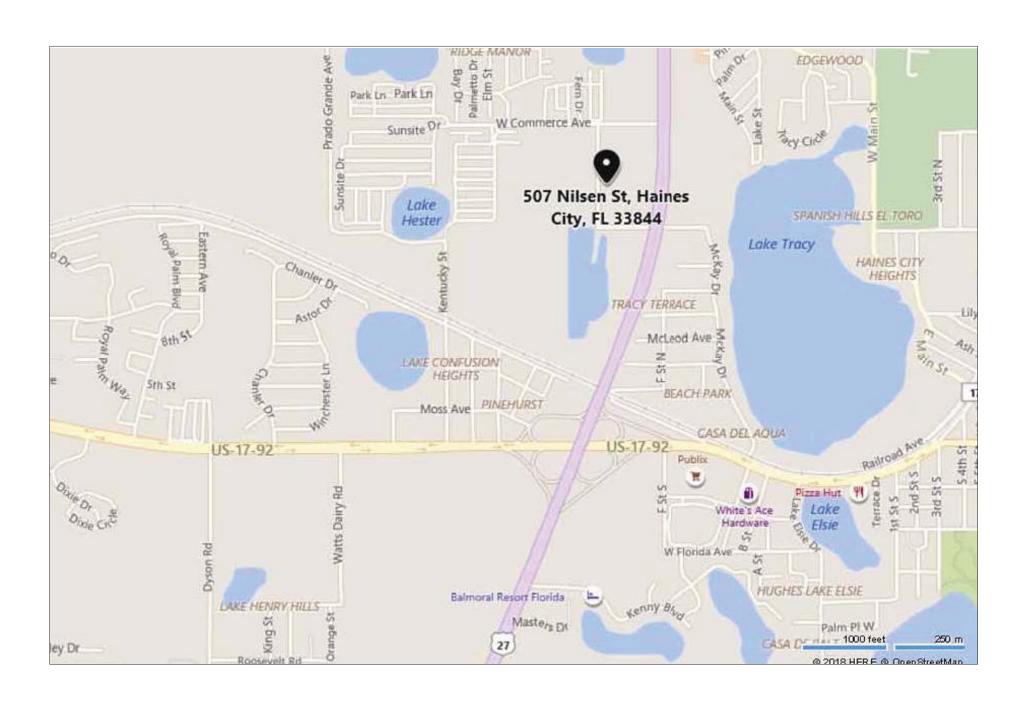
Robert and Sons Tires Corp. Waste Tire Processing Facility

507 Nilsen Street Haines City, FL 33884

February 2020



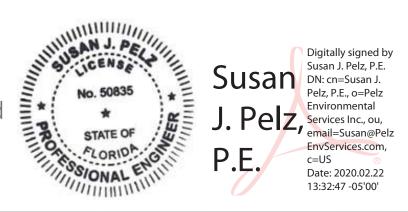
Vicinity Map



Location Map



This item has been digitally signed and sealed by Susan J. Pelz, P.E. (FL PE# 50835) on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



EnvServices.com, c=US ® Date: 2020.02.22

13:32:47 -05'00'

LIST of SHEETS.

Title Sheet

G-1 General Notes, Legend

G-2 Aerial Photograph

C-1 Overall Site Plan

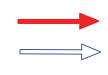
C-2 Traffic Flow

C-3 Storage Plan

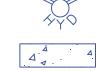
C-4 Drainage Plan

C-5 Fire Safety Plan

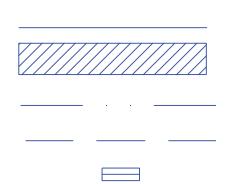




Inbound Traffic
Outbound Traffic
Utility Pole
Fire Hydrant



Concrete



Building
8 ft. Fire Lane
Property Line
Tire Storage Area
Roll—Up Door
Stormwater Drainage
Generic MES



Exit Fire Extinguisher Emergency Exit Route

NOTES.

All dimensions in decimal feet.

Stormwater drainage based on observation.



DRAWING NAME:

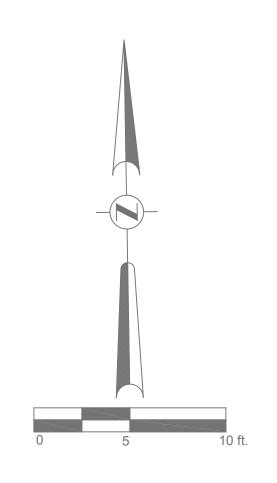
General Notes

SHT No.:		G-1	
SCALE:	NONE	Rev. No.:	Rev. Date:
DRW DATE:	11/02/19		
DRWN BY: SJP	CHK BY:		

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Pelz, P.E. (FL PE# 50835) on the date adjacent to the seal.
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Source: Polk County Property Appraiser (www.polkpa.org)



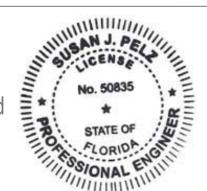
Certificate of Authorization No. 30910

DRAWING NAME:

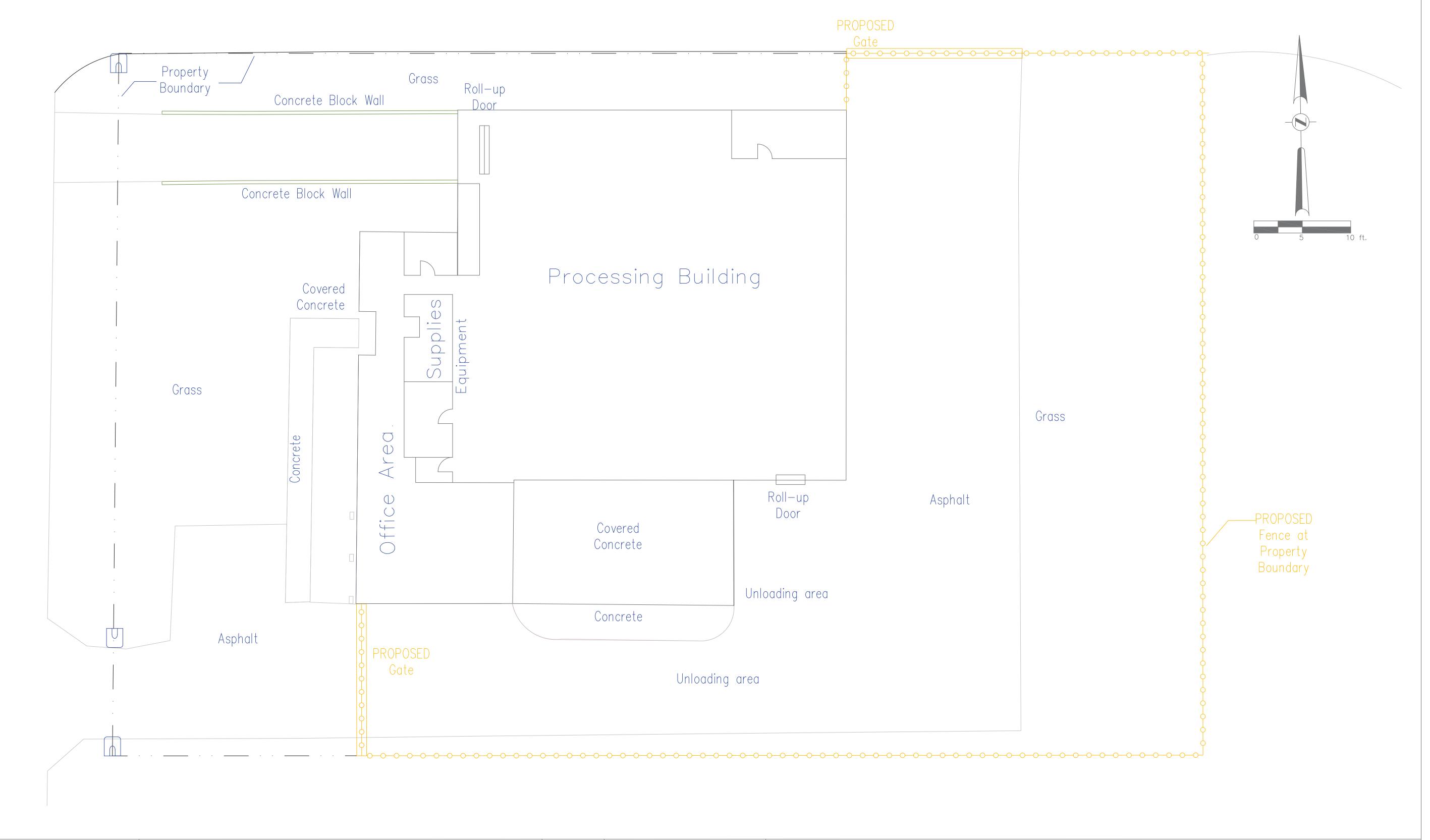
Aerial Photograph

SHT No.:	G-2		
SCALE:	1"=20'	Rev. No.:	Rev. Date:
DRW DATE:	11/02/19		
DRWN BY: SJP	CHK BY:		

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Pelz Environmental Services, Inc. P.O. Box 961, Brandon, FL 33509

Certificate of Authorization No. 30910

DRAWING NAME:

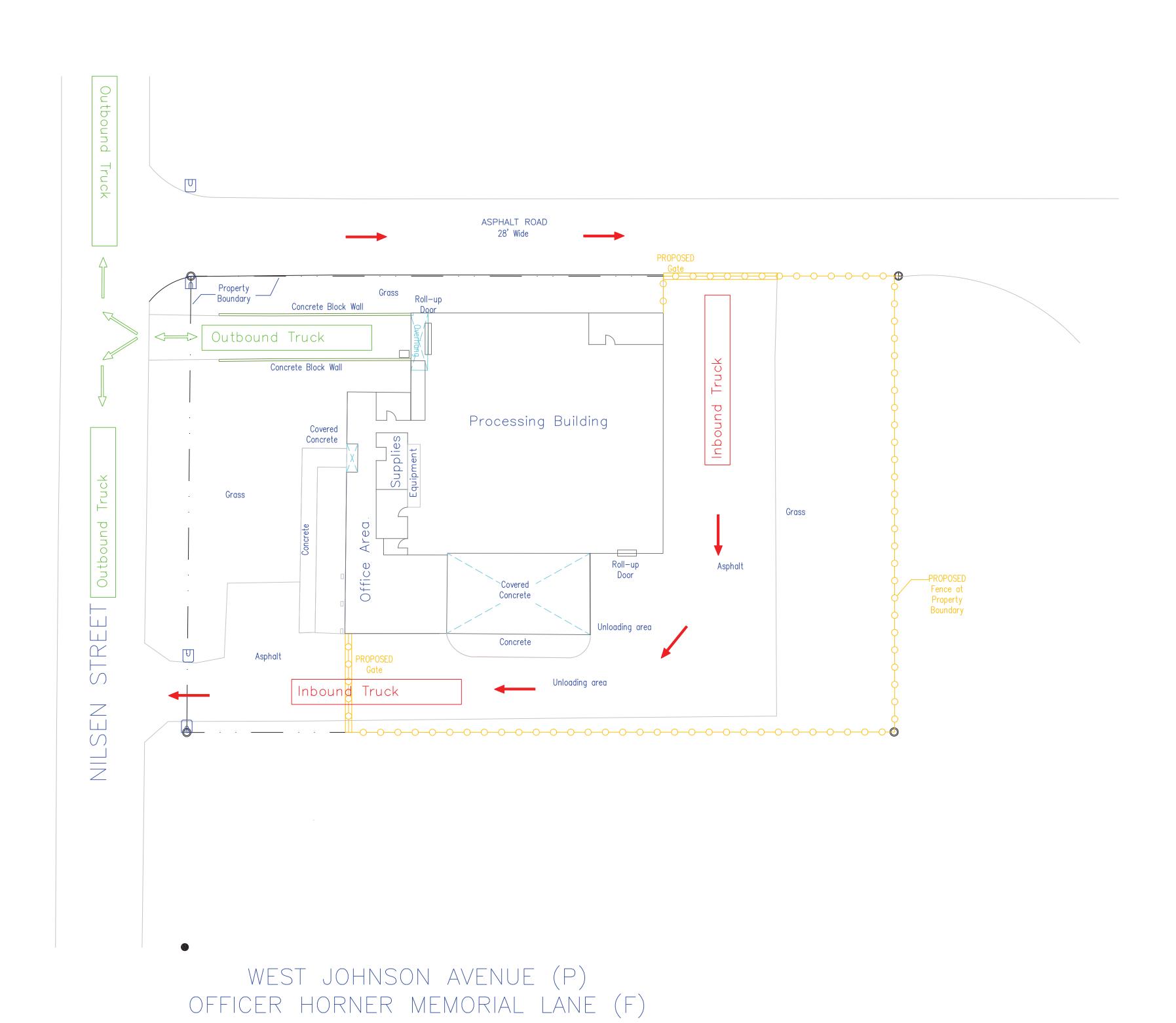
Overall Site Plan

SHT No.:			
SCALE:	1"=10'	Rev. No.:	Rev. Date:
DRW DATE:	01/31/20		
DRWN BY: SJP	CHK BY:		

This item has been digitally signed and sealed by Susan J. Pelz, P.E. (FL PE# 50835) on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



Digitally signed by Susan J. Pelz, P.E.
DN: cn=Susan J.
Pelz, P.E., o=Pelz
Environmental
Services Inc., ou,
email=Susan@Pelz
EnvServices.com,
c=US
Date: 2020.02.22
13:30:38-05'00'



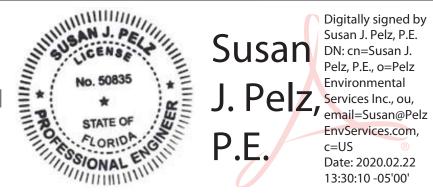


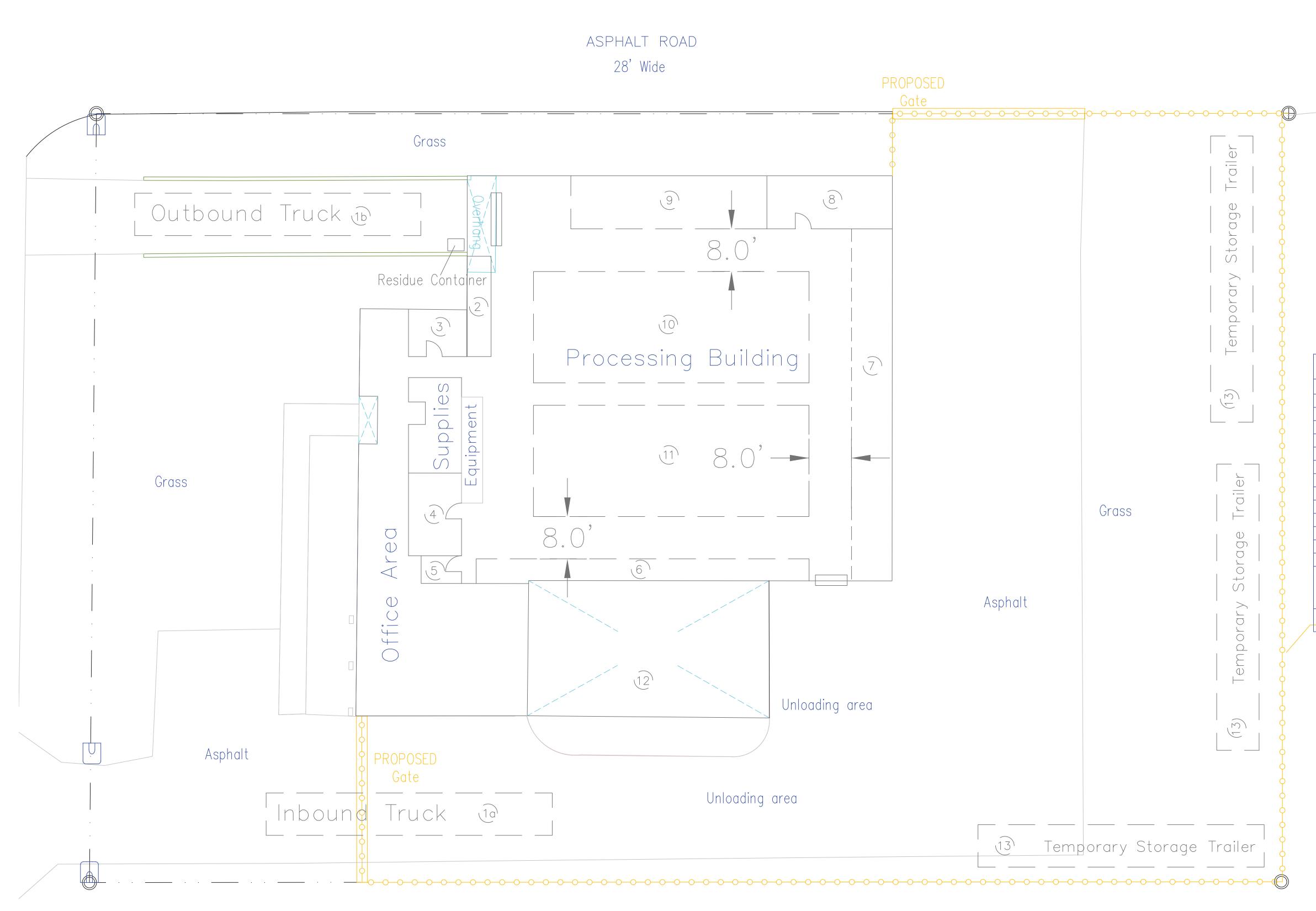
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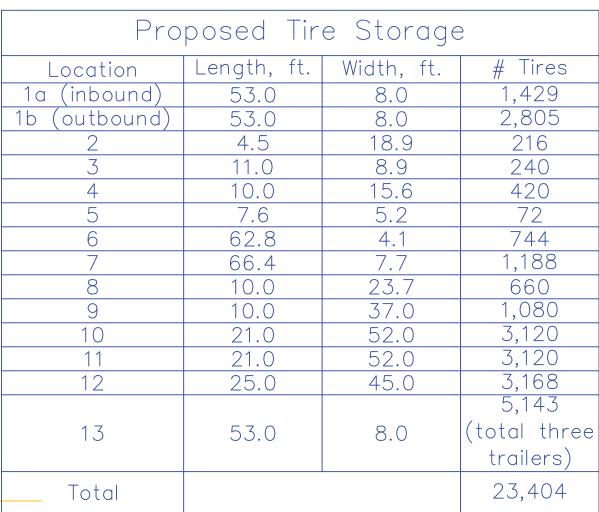
Traffic Flow

SHT No.:		-2			
SCALE:	1"=20'	Rev. No.:	Rev. Date:		
DRW DATE:	01/31/20				
DRWN BY: SJP	CHK BY:				

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Notes:

- 1. Unless otherwised noted, quantities represent passenger tires (24—inch diameter), stacked 12 tires high
- 2. Inbound Trailer [Location 1a]: Trailer full, single tires loose
- 3. Outbound Trailer [Location 1b]: Trailer full, "combined" tires laced
- 4. Storage Trailers [Location 13]: Three trailers, full of single tires, barrel stacked

Pelz Environmental Services, Inc. P.O. Box 961, Brandon, FL 33509 Certificate of Authorization No.

DRAWING NAME:

Storage Plan

SHT No.: — 3

SCALE: 1"=10' Rev. No.: Rev. Date:

DRW DATE: 01/31/20

DRWN BY: CHK BY: SJP

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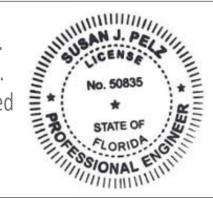
Pelz Environmental Services, Inc. P.O. Box 961, Brandon, FL 33509

Certificate of Authorization No. 30910

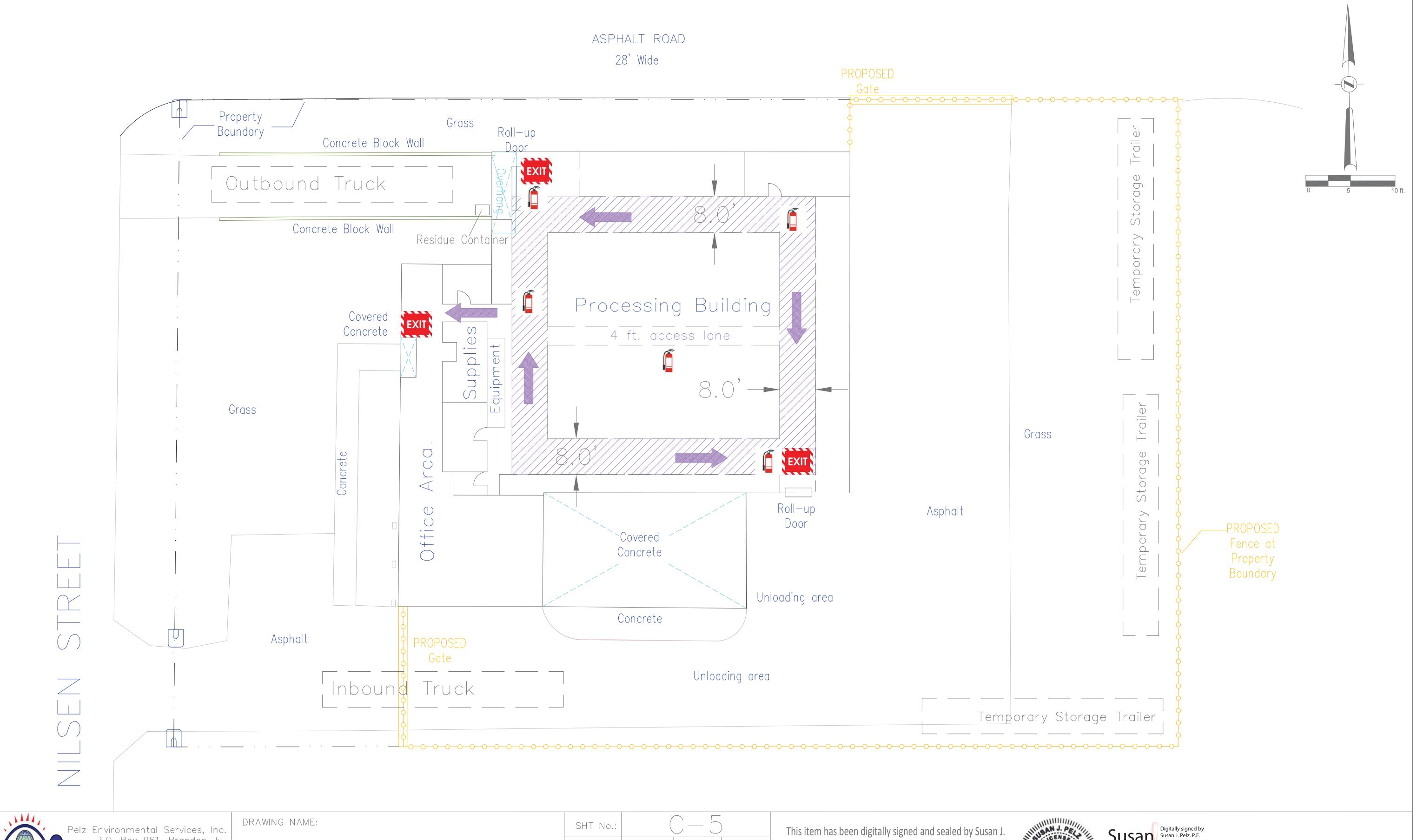
Drainage Plan

SHT No.:	C — 4			
SCALE:	1"=10'	Rev. No.:	Rev. Date:	
DRW DATE:	01/31/20			
DRWN BY: SJP	CHK BY:			

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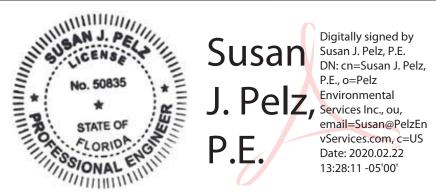
Pelz Environmental Services, Inc. P.O. Box 961, Brandon, FL 33509

Certificate of Authorization No.

Fire Safety Plan

SHT No.:				
SCALE:	1"=10"	Rev. No.:	Rev. Date:	
DRW DATE:	01/31/20			
DRWN BY: SJP	CHK BY:			

Pelz, P.E. (FL PE# 50835) on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any and sealed and the signature must be verified on any electronic copies.



Appendix C Notice of Application

As required by Rule 62-701.320(8), F.A.C., the following language will be published in a newspaper of general circulation in the area of the project within 14 days of submittal of the application:

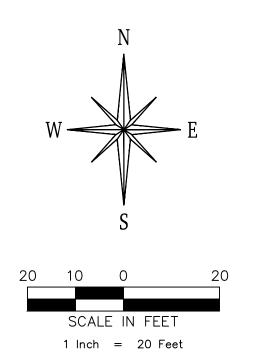
Notice of Application

The Department of Environmental Protection announces receipt of an application for permit from Robert and Sons Tires Corp, to construct, operate and close a waste tire processing facility. This project will be located at 507 Nilsen Street, Haines City, FL 33844 in Polk County. This application is being processed and is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Department's Southwest District office located at 13051 N. Telecom Parkway, Temple Terrace, FL.

Appendix D Boundary Survey

BOUNDARY SURVEY

SECTION 19, TOWNSHIP 27 SOUTH, RANGE 27 EAST, HAINES CITY, POLK COUNTY, FLORIDA



LEGEND:(Plat) (P)=Bearing, Angle, Distance, or Name shown on Plat of Record(Field) (F)=Bearing, Angle, Distance, or Name Found by Field Survey(Legal) (L)=Bearing, Angle, Distance, or Name given by Legal DescriptionB.F.P.=Backflow PreventerC.C.=Concrete ColumnE.M.=Electric MeterE.O.A.=Edge of AsphaltI.D.=IdentificationN.T.S.=Not to Scale

O.H.E. = Overhead Electric

W.P.P. = Wood Power Pole

L.B. = Licensed Business

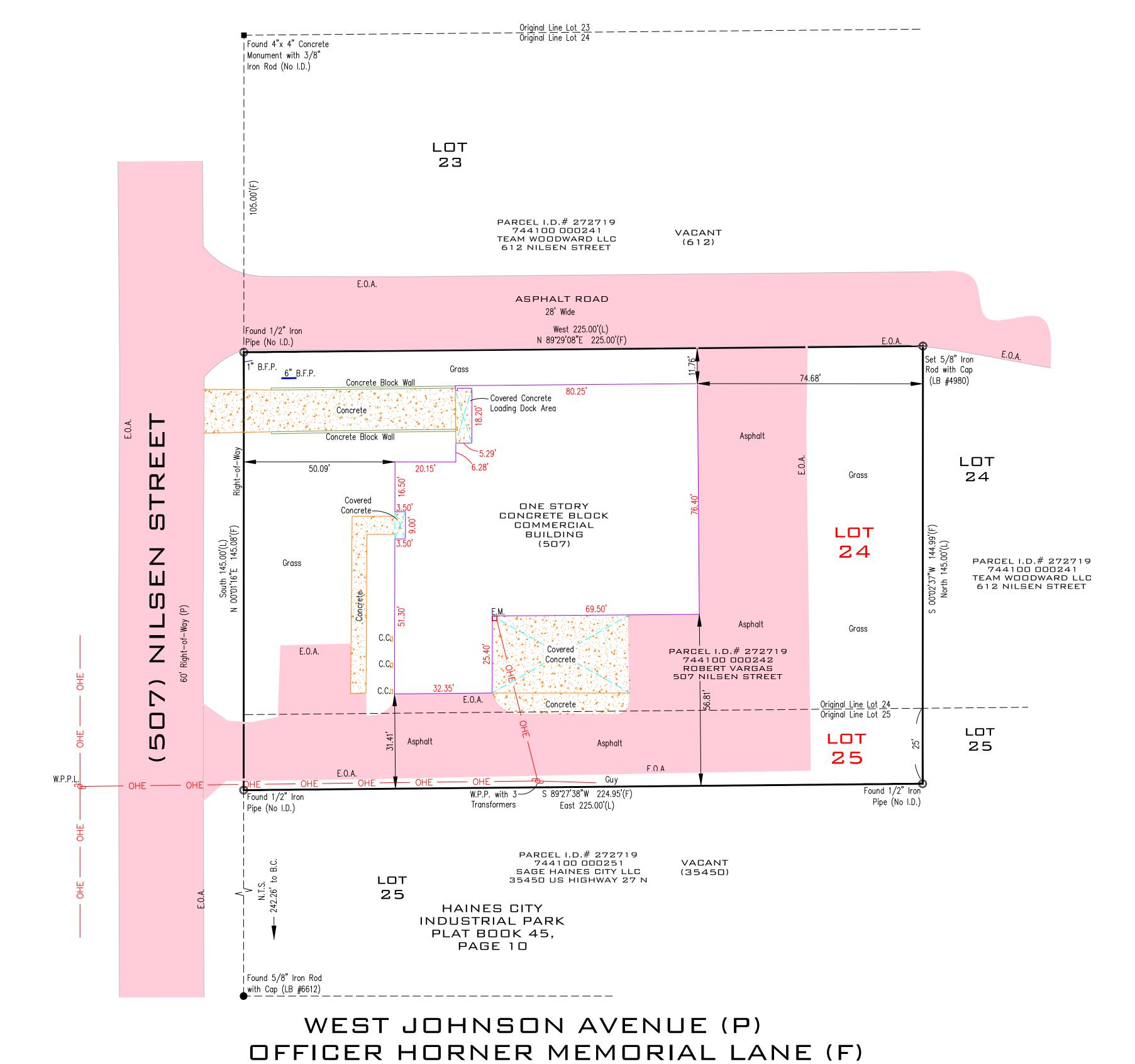
W.P.P.L. = Wood Power Pole with Light

B.C. = Block Corner

= Line Drawn (Not to Scale)

= Block Corner = Line Drawn (N = Concrete

= Asphalt



LEGAL DESCRIPTION :

A parcel of land comprising that portion of Lot 25 and Lot 24, of Haines City Industrial Park shown in Plat Book 45, Page 10, Public Records of Polk County, Florida, said portion being bounded by a line starting at a point on the East boundary line of Nilsen Street, 25 feet South from the intersection of the North boundary of Lot 25 and the East boundary of Nilsen Street, and extending Eastward parallel with the North boundary of Lot 25,225 feet, then North parallel with the East boundary of Nilsen Street 145 feet; then Westward parallel with the North boundary of Lot 25, 225 feet and Southward along the East boundary of Nilsen Street, 145 feet to the starting point.

SURVEYOR'S NOTE'S:

- 1. Boundary Survey with limited improvements field work completed 12 10 2018.
- 2. Bearings based on the East Right-of-Way of Nilsen Street, having a bearing of N 00°01'16"E, as assumed.
- 3. No underground installations, improvements or encroachments have been located Except those shown hereon.
- 4. Except as specifically stated or shown heron, this survey does not purport to reflect the absence or existence of filled or unfilled lands; State Sovereign Lands; former submerged lands; riparian lands; Ordinary High Water Line of any waterbody; or areas subject to the possibility of flooding; building setback lines; restrictive covenants; zoning and other real property/land intended use's; agreements, recorded and/or unrecorded that may effect this and/or adjoining parcels.
- 5. Subject property may contain lands that are subject to claim or restriction by one or more of the following agencies: Army Corps. of Engineers, Southwest Florida Water Management District (S.W.F.W.M.D.), Department of Environmental Protection (D.E.P.), or Environmental Protection Commission (E.P.C.).
- 6. Use of this survey for purposes other than intended, without written verification, will be at the user's sole risk and without liability to the surveyor. Nothing heron shall be construed to give any rights or benefits to anyone other than those
- 7. Note: In providing this survey no attempt has been made to obtain or show data concerning existence, size, depth, conditions, capacity or location of any utility existing on the site, whether private, municipal or public owned.
- 8. This Survey was prepared without the benefit of an Abstract of Title, Cypress Land Survey's, Inc. and the below signed Land Surveyor makes No Guarantees as to the size, location, or existence of Easement's, Right—of—Way's, Setback line's, Reservation's, Agreement's, or other similar matter's.

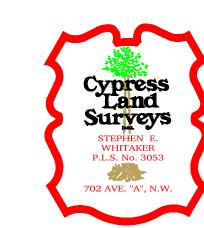
ADDITIONAL
SURVEYOR'S NOTES:

The word or words "certify" and "certified to " as used hereon, means an expression of professional opinion regarding the facts of the survey and does not constitute a warranty or quarantee, expressed or implied.

FLDDD PLAIN CERTIFICATION I, Stephen E. Whitaker, P.L.S., No. 3053 hereby certify that after inspection of the F.E.M.A. Flood Hazard map, the structure located hereon does not lie within the Special Flood Hazard Area as defined by Flood Zone "A", but within Flood Zone "X", per Community Panel No. 12105C0 - _____ 357 Suffix G Effective Dated 12 - 22 - 2016 ______ Not valid if the above line does not contain map number with effective date given.

THIS SURVEY IS CERTIFIED EXCLUSIVELY TO AND ONLY FOR THE USE OF:

1. Robert Vargas



SURVEYOR'S CERTIFICATE:

I, hereby certify that to the best of my knowledge, information, and belief, this plat is a True and correct representation of the hereon described land according to normal standards of Professional care for the Survey purpose hereon stated, and this Plat meets Standards of Practice as adopted by the Florida Board of Professional Land Surveyor's under authority of Section 472.027, Florida Statues, and set forth in Chapter 5J—17.

NOT VALID UNLESS EMBOSSED WITH RAISED SEAL.

Date : ___ 12 - 12 - 2018 _

Unless it bears the signature and the original raised seal of a Florida Licensed Surveyor and Mapper this drawing, sketch, plat or map is for informational purposes only and in not walld

Prepared by: CYPRESS LAND SURVEY'S, INC. * 702 Avenue "A", N.W.

Winter Haven, Florida 33881-3139 Phone (863) 299-8165 Fax (863) 294-4301

Stephen E. Whitaker, P.L.S. - Florida License & Reg. # L.S. 3053 & L.B. 4980

FLORIDA LICENSED SURVEYOR and MAPPER Registration No. 3053 Stephen E. Whitaker, P.L.S.

NOTE: Copyright © Cypress Land Surveys, Inc. All rights reserved. No part of this drawing may be reproduced by photocopying, recording or by any other means, or stored, processed or transmitted in or by any computer or other system without the prior written permission of the Copies of this plan without an original signature and

Appendix E Property Ownership and Letter of Authorization

Return to and prepared by: Tula Michele Haff, Attorney At Law 135 N. 6th Street, Second Floor Haines City, Florida 33844 Telephone: 863-421-2626

Property Appraisers Parcel I.D. No.: 272719-744100-000242



INSTR # 2015154636
BK 9611 Pgs 12-13 PG(s)2
RECORDED 08/25/2015 09:02:47 AM
STACY M. BUTTERFIELD,
CLERK OF COURT POLK COUNTY
DEED DOC \$1,960.00
RECURDING FEES \$18.50
RECORDED BY keaimite

WARRANTY DEED

THIS INDENTURE, made this 21st day of August, 2015, between Jamar Building Corp., a Florida corporation, whose address is 93 Pine Forest Street, Haines City, FL 33845, Grantor, party of the first part, and Robert Vargas, whose address is 412 Vista Bahia Penuela, Puerto Rico, 00624, Grantee, party of the second part.

WITNESSETH, That the said Grantor, party of the first part, for and in consideration of the sum of TEN AND NO/100 (\$10.00) Dollars and other valuable considerations, Grantor, party of the first part in hand paid by the said Grantee, party of the second part, the receipt whereof is hereby acknowledged has granted, bargained, and sold to the said Grantee, party of the second part, its successors and assigns forever the following described land, situate, lying and being in the County of Polk, State of Florida, to wit:

A parcel of land comprising that portion of Lot 25 and Lot 24, of Haines City Industrial Park shown in Plat Book 45, Page 10, Public Records of Polk County, Florida, said portion being bounded by a line starting at a point on the East boundary line of Nilsen Street, 25 feet South from the intersection of the North boundary of Lot 25 and the East boundary of Nilsen Street, and extending Eastward parallel with the North boundary of Lot 25, 225 feet, then North parallel with the East boundary of Nilsen Street 145 feet; then Westward parallel with the North boundary of Lot 25, 225 feet and Southward along the East boundary of Nilsen Street, 145 feet to the starting point.

SUBJECT to ad valorem taxes for 2015 and subsequent years; zoning, restrictions, prohibitions and other requirements imposed by governmental authority; and restrictions, reservations and easements of record.

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the Grantor, party of the first part, herby covenants with said Grantee, party of the second part, that the Grantor, party of the first part, is lawfully seized of said land in fee simple; that the Grantor, party of the first part has good right and lawful authority to sell and convey said land; that the Grantor, party of the first part hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances whatsoever, except as set out above.

Warranty Deed
Jamar Building Corp. to Robert Vargas
Property Appraisers Parcel I.D. No.:
272719-744100-000242
Page 2 of 2

IN WITNESS WHEREOF, the said Grantor, party of the first part has hereunto set their hand and seal the day and year first above written.

Signed, sealed and delivered in the presence of:

Signature of Witness

Printed Name of Witness

Signature of Witness

ARCHE HYRCEY
Printed Name of Witness

STATE OF FLORIDA:

Jamar Building Corp.

Jerry Mac Chione, President

STATE OF FLORIDA: COUNTY OF POLK:

My Commission Expires:

Notary Public State of Florida
Darcie Hurley
My Commission FF 194183
Expires 02/08/2019

PARSIE HYRCEY
Printed Name of Notary

Authorization for Use

To whom it may concern,		

I, Robert Vargas, as owner of the property located at 507 Nilsen Street, Haines City, FL 33844, Polk County Property Appraiser Parcel ID: 272719744100000242, authorize Robert and Sons Tires Corp., its officers and agents to construct, operate and close a waste tire processing facility on the property in accordance with all applicable local, state and federal regulations.

Dated this 15 day of <u>December</u>, 2019.

Robert Vargas

Printed name

Robert VINCIS

Signature