



3301 Benson Drive, Suite 601 | Raleigh, NC 27609  
September 24, 2012

Patricia M. Backus, P.E.

**NC Department of Environment and Natural Resources**

Division of Waste Management

Solid Waste Section

217 West Jones Street

1646 Mail Service Center

Raleigh, NC 27699-1646



Re: Request For Modification  
Burnt Poplar Transfer Station  
Greensboro, North Carolina

Dear Ms. Backus;

Per my recent conversations with both you and Ed Mussler of the Department I am writing this letter to request approval to modify the way in which we manage the waste stream at the Burnt Poplar Transfer Station, located in Greensboro, NC. As you know we have recently acquired this facility from WCA and have been evaluating the best utilization of the assets at this location and have come to the conclusion that the small C&D waste stream received at this facility can better be managed utilizing pre-compaction equipment as presented below. This request also includes the option of returning to the original plan of utilizing traditional transfer trailers and tractors for transportation of the waste stream to the landfill should the volume or waste stream makeup dictate that in the future.

However, at this time, with small volumes and a depressed economy not showing any immediate signs of recovery, we are requesting permission to install an electronic

Ms. Pat Backus, P.E.

September 24, 2012

Page 2

driven pre-crusher unit and compactor station that would allow us to load the waste stream into 40 cubic yard receiver boxes and then haul the waste stream to the landfill. This transition will allow us to utilize our existing roll-off truck fleet working in the area and will allow us to transfer the existing transfer trailers and tractors to other locations where they can be better utilized. Attached to this letter are "cut sheets" on the anticipated equipment as well as a site plan indicating where this compactor station would be placed. As you can see, we are proposing to install the unit on the existing concrete tipping pad which will allow us to continue to receive waste in this area but will not require any expansion of the operational footprint. Furthermore, this location allows us to transition back to the utilization of the transfer trailers rather quickly, should conditions dictate.

It should be noted that this request is not changing any other aspect of the operation of the transfer station other than the mechanism of how we remove the waste stream from the facility. With this request we are not requesting to change the type of waste received at the facility nor are we asking to change any of the other conditions of the permit. Please review this request and provide a written response. Should you have any questions, concerns or if you need additional information, please call me. We look forward to your response to this request and thank you for your consideration.

Sincerely,



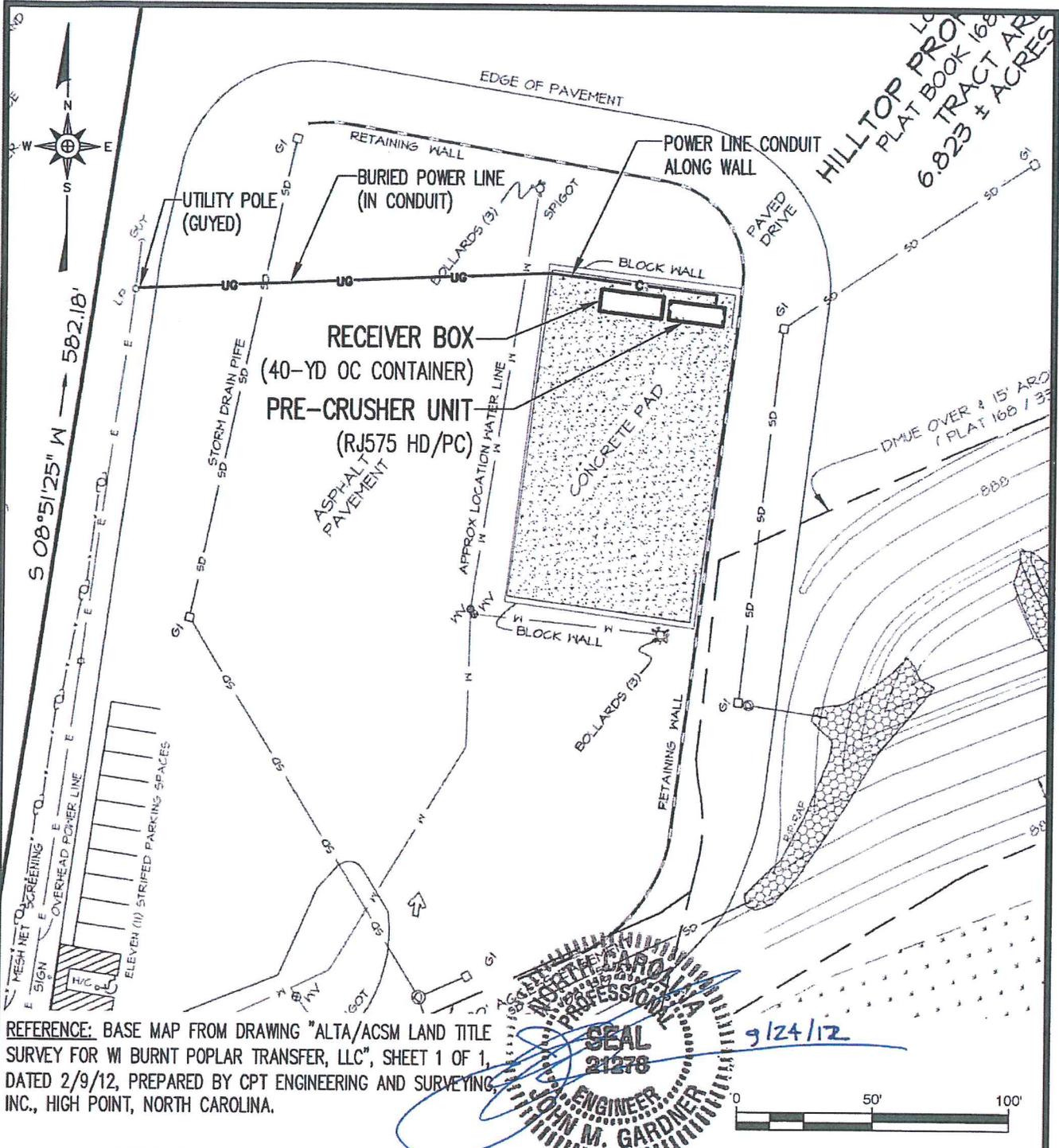
David W. Pepper

Mid-South Area Landfill Manager

Attachments

C: John Gardner, SmithGardner, Inc.

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REFERENCE: BASE MAP FROM DRAWING "ALTA/ACSM LAND TITLE SURVEY FOR WI BURNT POPLAR TRANSFER, LLC", SHEET 1 OF 1, DATED 2/9/12, PREPARED BY CPT ENGINEERING AND SURVEYING, INC., HIGH POINT, NORTH CAROLINA.

PREPARED FOR

**PRE-CRUSHER AND CONTAINER  
BURNT POPLAR TRANSFER STATION  
GREENSBORO, NORTH CAROLINA**

PREPARED BY

PUBLIC NO. C-2828 (ENGINEERING)

**SMITH + GARDNER**

14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

DRAWN	APPROVED	SCALE:	DATE	PROJECT NO.	FIGURE NO.	FILE NAME
C.T.J.	J.M.G.	AS SHOWN	Sep 2012	BURNT 12-1	1	WI-A0799

RJ-450 HD/PC/Hi-Volume and RJ-575 HD/PC

# PRECRUSHERS



## Shrink Your Disposal Costs with a Marathon PreCrusher

*More than 30% greater compaction results  
than that of a standard compactor*

A Marathon PreCrusher eliminates "light loads" of pallets, crates, large boxes and drums that fill your container with air. The packing ram moves through the charge box with a high level of force that effectively crushes everything against the PreCrusher's vertical steel wall. The wall is then raised and the ram fully extends

compacting the refuse into the attached container. Uniform compaction is achieved throughout the receiver container.

**Every stroke is a crushing compaction stroke. The results: fewer trips to the landfill!**

*A Marathon PreCrusher can quickly reduce 55 gallon drums to a fraction of the original drum length. No lifting or handling of the drums is required since the ram pushes the crushed drums into the container.*



# POWERFUL RAMJET PRESS

## High Performance Features & Benefits:

▼ **High Force Crushing Ram:** moves through the charge box effectively crushing everything against the vertical steel wall. The wall is then hydraulically raised and the ram extends a full 13", compacting the refuse into the attached container.

▼ **Guided Ram:** supports and guides the packing ram which reduces compaction robbing friction and extends the life of the ram.

▼ **Vertical Steel Crushing Wall:** while in the down position it serves as an effective crushing gate to eliminate "light loads" of crates, large boxes and drums that would fill your container with air.

▼ **Self-Cleaning Gate:** has a beveled design which prevents crushed materials from sticking to the door.

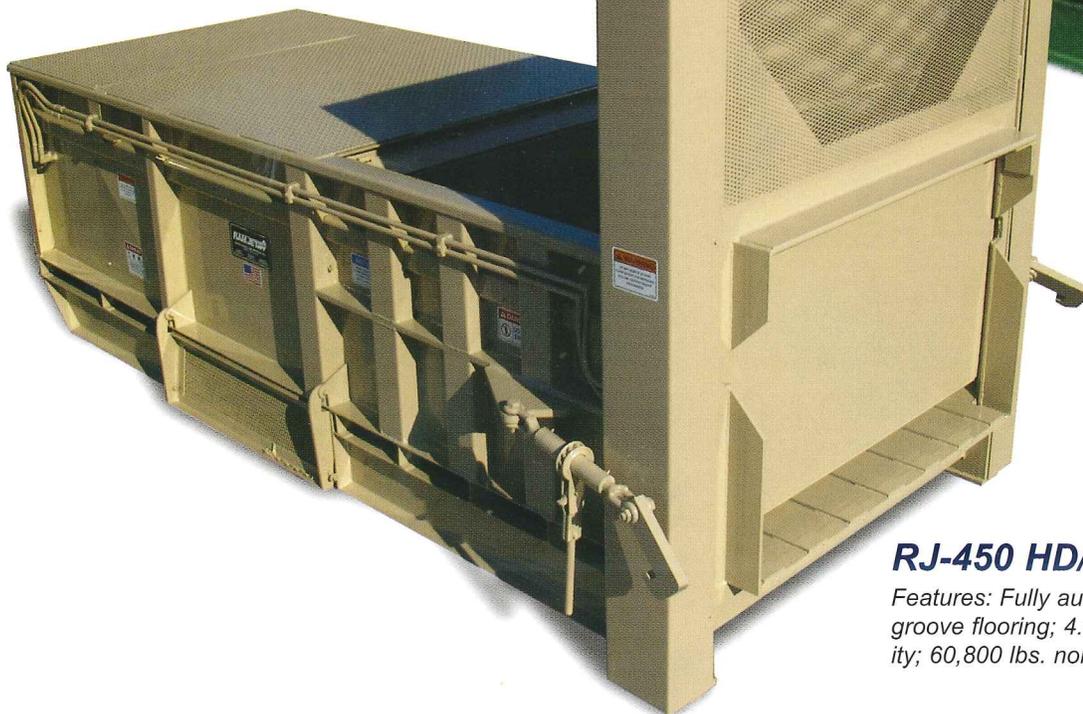
▼ **Low Profile Design:** allows the units to be shipped fully assembled.



▼ **Heavy Duty Construction:** the charge box, sides, ram top, floor and face plates are specially engineered for heavy duty industrial applications.

▼ **Tongue & Groove Flooring:** prevents thin materials from becoming trapped under the ram. Optional side tongue & groove also available.

▼ **Programmable Controller:** standard on automatic units, the controller simplifies operation and eliminates many relays and limit switches.



### **RJ-575 HD/PC**

Features: Fully automatic cycling; tongue & groove flooring; 5.5 cubic yard charge box capacity; 84,700 lbs. normal force; 30 hp motor

### **RJ-450 HD/PC Hi-Volume**

Features: Fully automatic cycling; tongue & groove flooring; 4.0 cubic yard charge box capacity; 60,800 lbs. normal force; 20 hp motor

# CRUSHERS

The RJ-450 HD/PC/Hi-Volume and RJ-575 HD/PC are fully automatic. After pressing the "Start" button the compaction ram crushes the material against the heavy steel wall in the charge chamber. The steel wall then automatically lifts and the crushed material is recompressed into the receiver container. The PreCrusher then resets itself to await the next load.

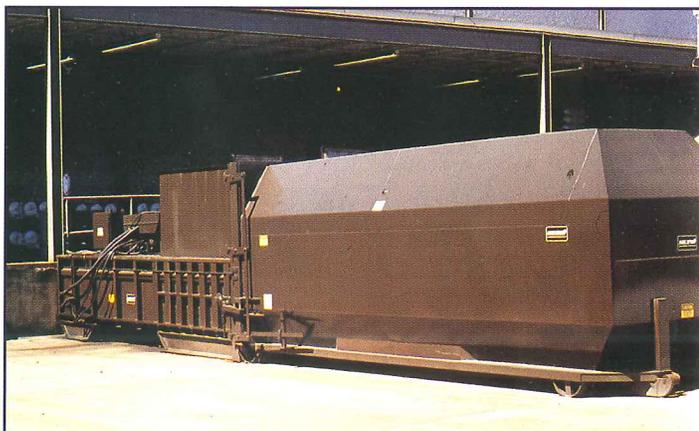
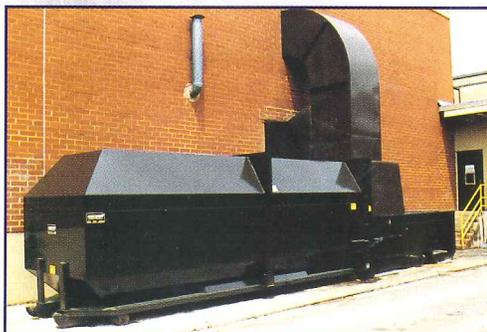
Marathon's PreCrushers are ideal for crushing...

- ▼ 55 gal. steel drums
- ▼ wood pallets
- ▼ wood crates
- ▼ spools
- ▼ industrial waste
- ▼ white goods
- ▼ turnings
- ▼ and other hard-to-destroy materials

## Custom Capabilities...

Marathon takes pride in its ability to custom outfit your PreCrusher application with options such as security chutes, cart dumpers, specially designed hoppers, remote controls, hand and toe rails, tread plate tops for walk-on or drive-on applications, and electronic compactor controls and monitoring systems such as the TrashMinder® System for Waste Compaction Monitoring.

*A RJ-575 HD/PC, located at Hyster Corporation in Alabama, replaced a standard 5 1/2 cubic yard industrial compactor. The results have been tremendous – a 67% reduction in the number of "pulls!"*



# PreCrushers

	RJ-450 HD/ PC/Hi-Volume	RJ-575 HD/PC	RJ-575 EHD/PC
<b>Performance Characteristics:</b>			
Cycle Time	65 sec.	51 sec.	51 sec.
Total Normal Force	60,800 lb. 271 kN	84,700 lb. 377 kN	84,700 lb. 377 kN
Total Maximum Force	69,300 lb. 308 kN	96,200 lb. 428 kN	96,200 lb. 428 kN
Normal Ram Face Force	30.3 psi 209 kPa	42.2 psi 291 kPa	42.2 psi 291 kPa
Maximum Ram Face Force	34.5 psi 238 kPa	48.0 psi 331 kPa	48.0 psi 331 kPa
Ram Penetration	13" 330mm	13.5" 343mm	13.5" 343mm
<b>Electrical Equipment:</b>			
Electric Motor: 3/60 - 208/230/460	20 HP 14.9 kW	30 HP 22.4 kW	30 HP 22.4 kW
Electric Control Voltage	120 VAC	120 VAC	120 VAC
Panel Box Assembly:	UL Label; NEMA Type; All Circuits Fused		
Standard Controls:	Keylock; On/Start/Mushroom Stop/Ram Jog/PreCrusher Jog		
<b>Hydraulic Equipment:</b>			
Hydraulic Pump Capacity	18.5 gpm 70 L/min	52 gpm 197 L/min	52 gpm 197 L/min
Normal Pressure	2150 psi 148 bar	2200 psi 152 bar	2200 psi 152 bar
Maximum Pressure	2450 psi 169 bar	2500 psi 172 bar	2500 psi 172 bar
Main Hydraulic Cylinder Bore	6" 152mm	7" 178mm	7" 178mm
Main Hydraulic Cylinder Rod	4" 102mm	4" 102mm	4" 102mm
Main Hydraulic Cylinder Stroke	82" 2083mm	112" 2845mm	112" 2845mm
PreCrush Cylinder Bore	4" 102mm	4" 102mm	4" 102mm
PreCrush Cylinder Rod	2" 51mm	2" 51mm	2" 51mm
PreCrush Cylinder Stroke	44" 1118mm	44" 1118mm	44" 1118mm

Visit our web site: [www.MarathonEquipment.com](http://www.MarathonEquipment.com)

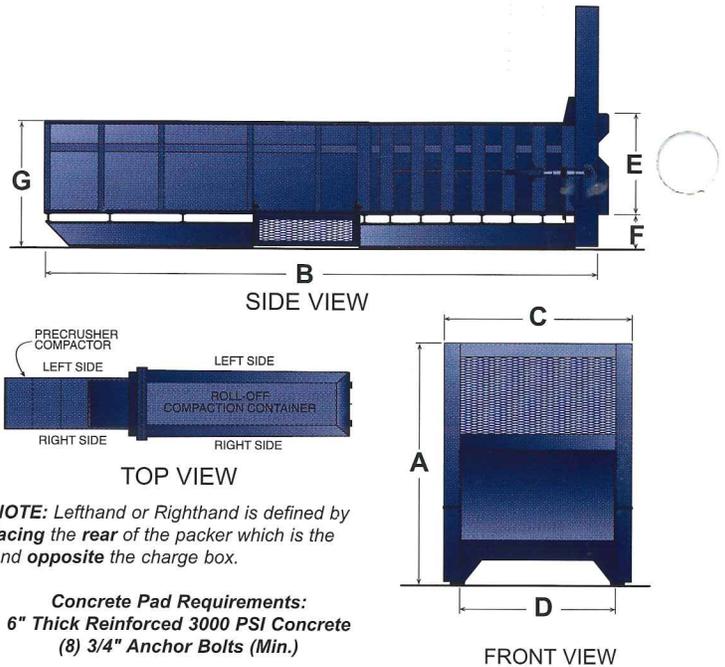


MARATHON EQUIPMENT COMPANY

P.O. Box 1798 • Vernon, AL 35592-1798 USA • (205) 695-9105 fax (205) 695-7250 1-800-633-8974

130 Hwy. 339 • Yerington, NV 89447 USA • (775) 463-4030 fax (775) 463-4531 1-800-624-5724

1102 Industrial Park Rd. • Clearfield, PA 16830 USA • (814) 765-0200 fax (814) 765-2072 1-800-922-7062



Dimensions:	RJ-450HD/ PC/Hi-Volume	RJ-575 HD/PC	RJ-575 EHD/PC
A	105" 2667mm	105" 2667mm	105" 2667mm
B	174" 4420mm	239" 6071mm	239" 6071mm
C	82" 2083mm	82" 2083mm	82" 2083mm
D	60" 1524mm	60" 1524mm	60" 1524mm
E	43" 1092mm	43" 1092mm	43" 1092mm
F	14 1/2" 368mm	14 1/2" 368mm	14 1/2" 368mm
G	54" 1372mm	54" 1372mm	59" 1499mm

### Specifications:

Charge Box Capacity [Mfrs. Rating]	4 cy 3.06 m <sup>3</sup>	5.5 cy 4.21 m <sup>3</sup>	5.5 cy 4.21 m <sup>3</sup>
[NSWMA Rating]	2.95 cy 2.26 m <sup>3</sup>	4.21 cy 3.22 m <sup>3</sup>	4.21 cy 3.22 m <sup>3</sup>
Clear Top Opening	56" L x 57 1/2" W 1422mm x 1466mm	85 1/2" L x 57 1/2" W 2172mm x 1466mm	
<b>Weight:</b>	14,000 lb. 6350 kg	17,600 lb. 7983 kg	22,269 lb. 10,101 kg

### Construction:

Ram Face Plate and Bottom constructed of 3/4" steel (all models); Ram Top constructed of 1/2" steel (all models); Body Sides constructed of 1/4" steel (except for RJ-575 EHD/PC which has 3/8" steel sides); Liner Floor constructed of 1/2" steel and the Liner Sides constructed of 3/8" steel; PreCrusher Face constructed of 3/4" steel.

Authorized Distributor:

Pictures in this literature are illustrative only. Specifications are subject to change without notice in order to accommodate improvements to the equipment. Certified in compliance with ANSI Regulation Z245.2, all OSHA standards, and certified under WASTEC's Stationary Compactor Certification Program. Products must be used with safe practice and in accordance with said regulations and standards.

