MARYLAND DEPARTMENT OF THE ENVIRONMENT

AIR AND RADIATION ADMINISTRATION
APPLICATION FOR A PERMIT TO CONSTRUCT

DOCKET #05-22

COMPANY: Allan Myers MD, Inc. – Capital Asphalt Plant

LOCATION: 2600 Marble Court, Forestville, MD 20747

APPLICATION: Installation of one (1) recycled asphalt pavement crushing and screening plant.

ITEM	DESCRIPTION
1	Notice of Application and Opportunity to Request an Informational Meeting
2	Permit to Construct Application Package including: Form 5, Form 5T, Form 5EP, site map, vendor specifications, emissions worksheet.
3	Zoning Approval from Prince George's County

MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION

NOTICE OF APPLICATION AND
OPPORTUNITY TO REQUEST AN INFORMATIONAL MEETING

The Maryland Department of the Environment, Air and Radiation Administration (ARA) received a permit-to-construct application from Allan Myers MD, Inc. on February 10, 2022 for the installation of one (1) recycled asphalt pavement crushing and screening plant. The proposed installation will be located at 2600 Marble Court, Forestville, MD 20747

The application and other supporting documents are available for public inspection on the Department's website. Look for Docket #05-22 at the following link:

https://mde.maryland.gov/programs/Permits/AirManagementPermits/Pages/index.aspx

Pursuant to the Environment Article, Section 1-603, Annotated Code of Maryland, the Department will hold an informational meeting to discuss the application and the permit review process if the Department receives a written request for a meeting within 10 working days from the date of the second publication of this notice. All requests for an informational meeting should be emailed to Ms. Shannon Heafey at shannon.heafey@maryland.gov.

Further information may be obtained by contacting Ms. Shannon Heafey by email at shannon.heafey@maryland.gov or by phone at (410) 537-4433.

George S. Aburn, Jr., Director
Air and Radiation Administration

ALLAN MYERS

April 13, 2021

Sarah Wells
MD Dept. of the Environment
Air and Radiation Management Administration
1800 Washington Blvd.
Baltimore, MD 21230

RE: Permit To Construct Application
Allan Myers MD, Inc. – Global Resource Recyclers

Dear Ms. Wells:

Please find enclosed in triplicate an Application For Processing/Manufacturing Equipment for Allan Myers MD, Inc. (Myers) to operate a McCloskey impactor and one (1) conveyor for crushing Recycled Asphalt Pavement (RAP), a RAP screen with four (4) conveyors, and two stand-alone conveyors at the Global Resource Recyclers facility located in Forestville, Maryland.

Included with the application are:

- Application For Processing/Manufacturing Equipment form;
- Form 5EP for the RAP crusher exhaust stack;
- Form 5EP for the screen exhaust stack;
- Form 5EP for the fugitive emissions from the crusher and screen;
- Form 5T Toxic Air Pollutant (TAP) Emissions Summary and Compliance Demonstration;
- Prince George's County zoning verification;
- Site map showing distance to closest property line; and
- Vendor literature.

If you have any questions or need additional information, please do not hesitate to call me at (610) 222-3182.

Sincerely,

David Schnackenberg

AIR QUALITY PERMIT TO CONSTRUCT APPLICATION CHECKLIST

OWNER OF EQUIPMENT/PROCESS	
COMPANY NAME:	Allan Myers MD, Inc. - Capital Asphalt Plant
COMPANY ADDRESS:	638 Lancaster Avenue, Malvern, PA 19355
LOCATION OF EQUIPMENT/PROCESS	
PREMISES NAME:	Global Resource Recyclers
PREMISES ADDRESS:	2600 Marble Court, Forestville, MD 20747
CONTACT INFORMATION FOR THIS PERMIT APPLICATION	
CONTACT NAME:	David Schnackenberg
JOB TITLE:	Environmental Manager
PHONE NUMBER:	(610) 222-3182
EMAIL ADDRESS:	david.schnackenberg@allanmyers.com
DESCRIPTION OF EQUIPMENT OR PROCESS	
RAP impactor, screen, and conveyors for sizing purposes	

Application is hereby made to the Department of the Environment for a Permit to Construct for the following equipment or process as required by the State of Maryland Air Quality Regulation, COMAR 26.11.02.09.

Check each item that you have submitted as part of your application package.

☒ Application package cover letter describing the proposed project

☐ Complete application forms (Note the number of forms included or NA if not applicable.)

No. X Form 5
No. X Form 5T
No. X Form 5EP
No. _____ Form 6
No. _____ Form 10
No. _____ Form 11
No. _____ Form 41
No. _____ Form 42
No. _____ Form 44

☒ Vendor/manufacturer specifications/guarantees

☒ Evidence of Workman's Compensation Insurance

☐ Process flow diagrams with emission points

☒ Site plan including the location of the proposed source and property boundary

☐ Material balance data and all emissions calculations

☐ Material Safety Data Sheets (MSDS) or equivalent information for materials processed and manufactured.

☐ Certificate of Public Convenience and Necessity (CPCN) waiver documentation from the Public Service Commission (1)

☒ Documentation that the proposed installation complies with local zoning and land use requirements (2)

(1) Required for emergency and non-emergency generators installed on or after October 1, 2001 and rated at 2001 kW or more.

(2) Required for applications subject to Expanded Public Participation Requirements.

APPLICATION FOR PROCESSING/MANUFACTURING EQUIPMENT

ALLAN MYERS

MARYLAND DEPARTMENT OF THE ENVIRONMENT

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(410) 537-3230 • 1-800-633-6101 • www.mde.state.md.us

Air and Radiation Management Administration • Air Quality Permits Program

APPLICATION FOR PROCESSING/MANUFACTURING EQUIPMENT

Permit to Construct ☐ Registration Update ☐ Initial Registration ☐

1A. Owner of Equipment/Company Name
Allen Myers MD, Inc.

Mailing Address
638 Lancaster Avenue
Street Address

Malvern | PA | 19355
City | State | Zip

Telephone Number
(610) 222-3182

Signature
David Schnackenberg

David Schnackenberg Environmental Manager | 4-13-2021
Print Name and Title | Date

DO NOT WRITE IN THIS BLOCK
2. REGISTRATION NUMBER

County No. (1-2) | Premises No. (3-6)
Registration Class (7) | Equipment No. (8-11)
Data Year (12-13) | Application Date

1B. Equipment Location and Telephone Number (if different from above)
2600 Marble Court
Street Number and Street Name

Forestville | MD | 20747 | (301) 568-2050
City/Town | State | Zip | Telephone Number

Global Resource Recyclers
Premises Name (if different from above)

3. Status (A= New, B= Modification to Existing Equipment, C= Existing Equipment)

Status (15)	New Construction Begun (MM/YY) (16-19)	New Construction Completed (MM/YY) (20-23)	Existing Initial Operation (MM/YY) (20-23)
A	0521	0521	

4. Describe this Equipment: Make, Model, Features, Manufacturer (include Maximum Hourly Input Rate, etc.)
One (1) RAP crusher, one (1) RAP screen, and two (2) conveyors

5. Workmen's Compensation Coverage WA763D5100670 10 | 12/31/2021
Binder/Policy Number | Expiration Date

Company Liberty Insurance Company

NOTE: Before a Permit to Construct may be issued by the Department, the applicant must provide the Department with proof of worker's compensation coverage as required under Section 1-202 of the Worker's Compensation Act.

6A. Number of Pieces of Identical Equipment Units to be Registered/Permitted at this Time 0

6B. Number of Stack/Emission Points Associated with this Equipment 3-crusher, 6-screen 2-each conveyor

7. Person Installing this Equipment (if different from Number 1 on Page 1)

Name _____ Title _____

Company _____

Mailing Address/Street _____

City/Town _____ State _____ Telephone (_____) _____

8. Major Activity, Product or Service of Company at this Location

Recycled asphalt pavement crushing and screening.

9. Control Devices Associated with this Equipment

None [ ] 24-0

Simple/Multiple Cyclone	Spray/Adsorb Tower	Venturi Scrubber	Carbon Adsorber	Electrostatic Precipitator	Baghouse	Thermal/Catalytic Afterburner	Dry Scrubber
[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
24-1	24-2	24-3	24-4	24-5	24-6	24-7	24-8

Other

[X] Describe Wet suppression sprays as required

24-9

10. Annual Fuel Consumption for this Equipment

OIL-1000 GALLONS	SULFUR %	GRADE	NATURAL GAS-1000 FT^3	LP GAS-100 GALLONS	GRADE
22.4	0.3	2			
26-31	32-33	34	35-41	42-45	

COAL- TONS	SULFUR %	ASH%	WOOD-TONS	MOISTURE %
46-52	53-55	56-58	59-63	64-65

OTHER FUELS _____ (Specify Type) [ ] 66-1 ANNUAL AMOUNT CONSUMED _____ (Specify Units of Measure)

OTHER FUEL _____ (Specify Type) [ ] 66-2 ANNUAL AMOUNT CONSUMED _____ (Specify Units of Measure)

1= Coke 2= COG 3=BFG 4=Other

11. Operating Schedule (for this Equipment)

Continuous Operation	Batch Process	Hours per Batch	Batch per Week	Hours per Day	Days Per Week	Days per Year
[X]	[ ]	[ ]	[ ]	10	5	80
67-1	67-2	68-69		70-71	72	73-75

Seasonal Variation in Operation:

No Variation	Winter Percent	Spring Percent	Summer Percent	Fall Percent	(Total Seasons= 100%)
[X]	[ ]	[ ]	[ ]	[ ]	
76	77-78	79-80	81-82	83-84	

12. Equivalent Stack Innformation- is Exhaust through Doors, Windows, etc. Only? (Y/N) [N] (85)

If not, then	Height Avove Ground (FT)	Inside Diameter at Top	Exit Temperature (°F)	Exit Velocity (FT/SEC)
	10	4	800	225
	86-88	89-91	92-95	96-98

NOTE:
Attach a block diagram of process/process line, indicating new equipment as reported on this form and all existing equipment, including control devices and emission points.

13. Input Materials (for this equipment only)
Is any of this data to be considered confidential? [N] (Y or N)

	NAME	CAS NO. (IF APPLICABLE)	INPUT RATE PER HOUR	UNITS	PER YEAR	UNITS
1.	RAP Impactor		353	TPH		
2.						
3.	RAP Screen		500	TPH		
4.						
5.	RAP Conveyor		300	TPH		
6.						
7.	RAP Conveyor		300	TPH		
8.						
9.						
TOTAL						

14. Output Materials (for this equipment)
Process/Product Stream

	NAME	CAS NO. (IF APPLICABLE)	OUTPUT RATE PER HOUR	UNITS	PER YEAR	UNITS
1.	RAP Impactor		353	TPH		
2.						
3.	RAP Screen		500	TPH		
4.						
5.	RAP Conveyor		300	TPH		
6.						
7.	RAP Conveyor		300	TPH		
8.						
9.						
TOTAL						

15. Waste Streams- Solid and Liquid

	NAME	CAS NO. (IF APPLICABLE)	OUTPUT RATE PER HOUR	UNITS	PER YEAR	UNITS
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
TOTAL						

16. Total Stack Emissions (for this equipment only) in Pounds Per Operating Day

Particulate Matter	Oxides of Sulfur	Oxides of Nitrogen
NA	10.6	161
99-104	105-110	111-116

Carbon Monoxide	Volatile Organic Compounds	PM-10
35	13.2	11.3
177-122	123-128	129-134

17. Total Fugitive Emissions (for this equipment only) in Pounds Per Operating Day

Particulate Matter	Oxides of Sulfur	Oxides of Nitrogen
57.8	NA	NA
135-139	140-144	145-149

Carbon Monoxide	Volatile Organic Compounds	PM-10
NA	NA	19.4
150-154	155-159	160-164

Method Used to Determine Emissions **(1= Estimate 2= Emission Factor 3= Stack Test 4= Other)**

TSP	SOX	NOX	CO	VOC	PM10
2	2	2	2	2	2
165	166	167	168	169	170

AIR AND RADIATION MANAGEMENT ADMINISTRATION USE ONLY

18. Date Rec'd. Local _____ **Date Rec'd. State** _____ **Return to Local Jurisdiction** Date_____ By_____

Reviewed by Local Jurisdiction Date_____ By_____ **Reviewed by State** Date_____ By_____

19. Inventory Date **Month/Year** (171-174) **Equipment Code** (175-177) **SCC Code** (178-185)

20. Annual Operating Rate (186-192) **Maximum Design Hourly Rate** (193-199) **Permit to Operate Month** (200-201) **Transaction Date (MM/DD/YR)** (202-207)

Staff Code (208-210) **VOC Code** (211 212) **SIP Code** (213 214) **Regulation Code** (215-218) **Confidentiality** (219)

Point Description (220-238) **Action** (239) A: Add C: Change

Form Number: 5
Rev. 9/27/2002
TTY Users 1-800-735-2258

Recycled Paper

Sample

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 12/22/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	The Graham Company The Graham Building One Penn Square West 25th Floor Philadelphia, PA 19102 www.grahamco.com
CONTACT NAME:	Jim Bonner/Edna Reitz
PHONE (A/C, No, Ext):	215-701-5372
FAX (A/C, No):	215-525-0234
E-MAIL ADDRESS:	Bonner_Unit@grahamco.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Liberty Mutual Fire Insurance Company	23035
INSURER B : XL Specialty Insurance Company	37885
INSURER C : Liberty Insurance Corporation	42404
INSURER D :	
INSURER E :	
INSURER F :	

INSURED
Allan Myers Materials MD, Inc.
P.O. Box 98
Worcester PA 19490

COVERAGES **CERTIFICATE NUMBER:** 59227076 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	✓ COMMERCIAL GENERAL LIABILITY			TB2631510067020	12/31/2020	12/31/2021	EACH OCCURRENCE	$2,000,000
	☐ CLAIMS-MADE ✓ OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$300,000
							MED EXP (Any one person)	$10,000
							PERSONAL & ADV INJURY	$2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$4,000,000
	☐ POLICY ✓ PRO-JECT ☐ LOC						PRODUCTS - COMP/OP AGG	$4,000,000
	☐ OTHER:							$
A	AUTOMOBILE LIABILITY			AS2631510067030	12/31/2020	12/31/2021	COMBINED SINGLE LIMIT (Ea accident)	$2,000,000
	✓ ANY AUTO						BODILY INJURY (Per person)	$
	☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
B	✓ UMBRELLA LIAB ✓ OCCUR			US00097161LI20A	12/31/2020	12/31/2021	EACH OCCURRENCE	$10,000,000
	☐ EXCESS LIAB ☐ CLAIMS-MADE						AGGREGATE	$10,000,000
	☐ DED ☐ RETENTION $							$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N			WA763D510067010	12/31/2020	12/31/2021	✓ PER STATUTE ☐ OTH-ER	
	ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? N	N / A					E.L. EACH ACCIDENT	$1,000,000
	(Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$1,000,000
							E.L. DISEASE - POLICY LIMIT	$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Evidence of Coverage

CERTIFICATE HOLDER

Evidence of Coverage

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Ken Ewell

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FORM 5EP

ALLAN MYERS

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Air and Radiation Management Administration • Air Quality Permits Program
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(410)537-3225 • 1-800-633-6101• www.mde.maryland.gov

FORM 5EP: Emission Point Data

Complete one (1) Form 5EP for EACH emission point (stack or fugitive emissions) related to the proposed installation.

Applicant Name: Allan Myers MD, Inc.

1. Emission Point Identification Name/Number

List the applicant assigned name/number for this emission point and use this value on the attached required plot plan:
RAP Crusher exhaust (stack)

2. Emission Point Description

Describe the emission point including all associated equipment and control devices:
Diesel engine exhaust stack

3. Emissions Schedule for the Emission Point

Continuous or Intermittent (C/I)?	Continuous	**Seasonal Variation** Check box if none: ☒ Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	
Hours per day:	10	Spring Percent	
Days per week:	5	Summer Percent	
Weeks per year:	16	Fall Percent	

4. Emission Point Information

Height above ground (ft):	10	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:	
Height above structures (ft):	2				
Exit temperature (°F):	800	Inside diameter at top of round stack (ft):		0.333	
Exit velocity (ft/min):	225	Distance from emission point to nearest property line (ft):		Varies	
Exhaust gas volumetric flow rate (acfm):	1178	Building dimensions if emission point is located on building (ft)	Height NA	Length	Width

5. Control Devices Associated with the Emission Point

Identify each control device associated with the emission point and indicate the number of devices. ***A Form 6 is also required for each control device***. If none check none:

☒ None

☐ Baghouse No. _____

☐ Cyclone No. _____

☐ Elec. Precipitator (ESP) No. _____

☐ Dust Suppression System No. _____

☐ Venturi Scrubber No. _____

☐ Spray Tower/Packed Bed No. _____

☐ Carbon Adsorber No. _____

- ☐ Cartridge/Canister
- ☐ Regenerative

☐ Thermal Oxidizer No. _____

- ☐ Regenerative

☐ Catalytic Oxidizer No. _____

☐ Nitrogen Oxides Reduction No. _____

- ☐ Selective ☐ Non-Selective
- ☐ Catalytic ☐ Non-Catalytic

☐ Other No. _____
Specify:

FORM 5EP: Emission Point Data

6. Estimated Emissions from the Emission Point

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations (lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	0.73	0.73	7.3	0.292
Particulate Matter (filterable as PM2.5)				
Particulate Matter (condensables)				
Volatile Organic Compounds (VOC)	0.85	0.85	8.5	0.34
Oxides of Sulfur (SOx)	0.68	0.68	6.8	0.27
Oxides of Nitrogen (NOx)	10.4	10.4	104	4.16
Carbon Monoxide (CO)	2.23	2.23	22.3	0.892
Lead (Pb)				

Greenhouse Gases (GHG)	At Design Capacity (lb/hr)	At Projected Operations (lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO_2)	385	385	3850	154
Methane (CH_4)				
Nitrous Oxide (N_2O)				
Hydrofluorocarbons (HFCs)				
Perfluorocarbons (PFCs)				
Sulfur Hexafluoride (SF6)				
Total GHG (as CO_2e)	385	385	3850	154

List individual federal Hazardous Air Pollutants (HAP) below:	At Design Capacity (lb/hr)	At Projected Operations (lb/hr)	(lb/day)	(ton/yr)
Aldehydes	0.164	0.164	1.64	0.066

(Attach additional sheets as necessary.)

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FORM 5EP: Emission Point Data

Complete one (1) Form 5EP for EACH emission point (stack or fugitive emissions) related to the proposed installation.

Applicant Name: Allan Myers MD, Inc.

1. Emission Point Identification Name/Number

List the applicant assigned name/number for this emission point and use this value on the attached required plot plan:
RAP Screen exhaust (stack)

2. Emission Point Description

Describe the emission point including all associated equipment and control devices:
Diesel engine exhaust stack

3. Emissions Schedule for the Emission Point

Continuous or Intermittent (C/I)?	Continuous	**Seasonal Variation** Check box if none: ☒	Otherwise estimate seasonal variation:
Minutes per hour:	60	Winter Percent	
Hours per day:	10	Spring Percent	
Days per week:	5	Summer Percent	
Weeks per year:	16	Fall Percent	

4. Emission Point Information

Height above ground (ft):	10	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:	
Height above structures (ft):	2				
Exit temperature (°F):	800	Inside diameter at top of round stack (ft):		0.333	
Exit velocity (ft/min):	225	Distance from emission point to nearest property line (ft):		Varies	
Exhaust gas volumetric flow rate (acfm):	1178	Building dimensions if emission point is located on building (ft)	Height NA	Length	Width

5. Control Devices Associated with the Emission Point

Identify each control device associated with the emission point and indicate the number of devices. ***A Form 6 is also required for each control device***. If none check none:

- ☒ None
- ☐ Baghouse No. _____
- ☐ Cyclone No. _____
- ☐ Elec. Precipitator (ESP) No. _____
- ☐ Dust Suppression System No. _____
- ☐ Venturi Scrubber No. _____
- ☐ Spray Tower/Packed Bed No. _____
- ☐ Carbon Adsorber No. _____
  - ☐ Cartridge/Canister
  - ☐ Regenerative
- ☐ Thermal Oxidizer No. _____
  - ☐ Regenerative
- ☐ Catalytic Oxidizer No. _____
- ☐ Nitrogen Oxides Reduction No. _____
  - ☐ Selective ☐ Non-Selective
  - ☐ Catalytic ☐ Non-Catalytic
- ☐ Other No. _____
  Specify:

FORM 5EP: Emission Point Data

6. Estimated Emissions from the Emission Point

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations (lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	0.24	0.24	2.4	0.096
Particulate Matter (filterable as PM2.5)				
Particulate Matter (condensables)				
Volatile Organic Compounds (VOC)	0.28	0.28	2.8	0.112
Oxides of Sulfur (SOx)	0.23	0.23	2.3	0.092
Oxides of Nitrogen (NOx)	3.45	3.45	34.5	1.38
Carbon Monoxide (CO)	0.74	0.74	7.4	0.296
Lead (Pb)				

Greenhouse Gases (GHG)	At Design Capacity (lb/hr)	At Projected Operations (lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO_2)	128	128	1280	51.2
Methane (CH_4)				
Nitrous Oxide (N_2O)				
Hydrofluorocarbons (HFCs)				
Perfluorocarbons (PFCs)				
Sulfur Hexafluoride (SF6)				
Total GHG (as CO_2e)	128	128	1280	51.2

List individual federal Hazardous Air Pollutants (HAP) below:	At Design Capacity (lb/hr)	At Projected Operations (lb/hr)	(lb/day)	(ton/yr)
Aldehydes	0.055	0.055	0.55	0.022

(Attach additional sheets as necessary.)

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FORM 5EP: Emission Point Data

Complete one (1) Form 5EP for EACH emission point (stack or fugitive emissions) related to the proposed installation.

Applicant Name: Allan Myers MD, Inc.

1. Emission Point Identification Name/Number

List the applicant assigned name/number for this emission point and use this value on the attached required plot plan:
RAP Conveyor 1 exhaust (stack)

2. Emission Point Description

Describe the emission point including all associated equipment and control devices:
Diesel engine exhaust stack

3. Emissions Schedule for the Emission Point

Continuous or Intermittent (C/I)?	Continuous	**Seasonal Variation** Check box if none: ☒ Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	
Hours per day:	10	Spring Percent	
Days per week:	5	Summer Percent	
Weeks per year:	16	Fall Percent	

4. Emission Point Information

Height above ground (ft):	4	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:	
Height above structures (ft):	2				
Exit temperature (°F):	800	Inside diameter at top of round stack (ft):		0.333	
Exit velocity (ft/min):	225	Distance from emission point to nearest property line (ft):		Varies	
Exhaust gas volumetric flow rate (acfm):	1178	Building dimensions if emission point is located on building (ft)	Height NA	Length	Width

5. Control Devices Associated with the Emission Point

Identify each control device associated with the emission point and indicate the number of devices. ***A Form 6 is also required for each control device***. If none check none:

- ☒ None
- ☐ Baghouse No. _____
- ☐ Cyclone No. _____
- ☐ Elec. Precipitator (ESP) No. _____
- ☐ Dust Suppression System No. _____
- ☐ Venturi Scrubber No. _____
- ☐ Spray Tower/Packed Bed No. _____
- ☐ Carbon Adsorber No. _____
  - ☐ Cartridge/Canister
  - ☐ Regenerative
- ☐ Thermal Oxidizer No. _____
  - ☐ Regenerative
- ☐ Catalytic Oxidizer No. _____
- ☐ Nitrogen Oxides Reduction No. _____
  - ☐ Selective ☐ Non-Selective
  - ☐ Catalytic ☐ Non-Catalytic
- ☐ Other No. _____
  Specify:

FORM 5EP: Emission Point Data

6. Estimated Emissions from the Emission Point

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	0.08	0.08	0.8	0.032
Particulate Matter (filterable as PM2.5)				
Particulate Matter (condensables)				
Volatile Organic Compounds (VOC)	0.09	0.09	0.94	0.038
Oxides of Sulfur (SOx)	0.08	0.08	0.76	0.030
Oxides of Nitrogen (NOx)	1.15	1.15	11.5	0.46
Carbon Monoxide (CO)	0.25	0.25	2.5	0.100
Lead (Pb)				
Greenhouse Gases (GHG)	**At Design Capacity (lb/hr)**	**At Projected Operations**		
		(lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO_2)	42.8	42.8	428	17.1
Methane (CH_4)				
Nitrous Oxide (N_2O)				
Hydrofluorocarbons (HFCs)				
Perfluorocarbons (PFCs)				
Sulfur Hexafluoride (SF6)				
Total GHG (as CO_2e)	42.8	42.8	428	17.1
List individual federal Hazardous Air Pollutants (HAP) below:	**At Design Capacity (lb/hr)**	**At Projected Operations**		
		(lb/hr)	(lb/day)	(ton/yr)
Aldehydes	0.018	0.018	0.18	0.007

(Attach additional sheets as necessary.)

MARYLAND DEPARTMENT OF THE ENVIRONMENT
Air and Radiation Management Administration • Air Quality Permits Program
1800 Washington Boulevard • Baltimore, Maryland 21230
(410)537-3225 • 1-800-633-6101• www.mde.maryland.gov

FORM 5EP: Emission Point Data

Complete one (1) Form 5EP for EACH emission point (stack or fugitive emissions) related to the proposed installation.

Applicant Name: Allan Myers MD, Inc.

1. Emission Point Identification Name/Number

List the applicant assigned name/number for this emission point and use this value on the attached required plot plan:
RAP Conveyor 2 exhaust (stack)

2. Emission Point Description

Describe the emission point including all associated equipment and control devices:
Diesel engine exhaust stack

3. Emissions Schedule for the Emission Point

Continuous or Intermittent (C/I)?	Continuous	**Seasonal Variation** Check box if none: ☒ Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	
Hours per day:	10	Spring Percent	
Days per week:	5	Summer Percent	
Weeks per year:	16	Fall Percent	

4. Emission Point Information

Height above ground (ft):	4	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:	
Height above structures (ft):	2				
Exit temperature (°F):	800	Inside diameter at top of round stack (ft):		0.333	
Exit velocity (ft/min):	225	Distance from emission point to nearest property line (ft):		Varies	
Exhaust gas volumetric flow rate (acfm):	1178	Building dimensions if emission point is located on building (ft)	Height NA	Length	Width

5. Control Devices Associated with the Emission Point

Identify each control device associated with the emission point and indicate the number of devices. ***A Form 6 is also required for each control device***. If none check none:

- ☒ None
- ☐ Baghouse No. _____
- ☐ Cyclone No. _____
- ☐ Elec. Precipitator (ESP) No. _____
- ☐ Dust Suppression System No. _____
- ☐ Venturi Scrubber No. _____
- ☐ Spray Tower/Packed Bed No. _____
- ☐ Carbon Adsorber No. _____
  - ☐ Cartridge/Canister
  - ☐ Regenerative
- ☐ Thermal Oxidizer No. _____
  - ☐ Regenerative
- ☐ Catalytic Oxidizer No. _____
- ☐ Nitrogen Oxides Reduction No. _____
  - ☐ Selective ☐ Non-Selective
  - ☐ Catalytic ☐ Non-Catalytic
- ☐ Other No. _____
  Specify:

FORM 5EP: Emission Point Data

6. Estimated Emissions from the Emission Point

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	0.08	0.08	0.8	0.032
Particulate Matter (filterable as PM2.5)				
Particulate Matter (condensables)				
Volatile Organic Compounds (VOC)	0.09	0.09	0.94	0.038
Oxides of Sulfur (SOx)	0.08	0.08	0.76	0.030
Oxides of Nitrogen (NOx)	1.15	1.15	11.5	0.46
Carbon Monoxide (CO)	0.25	0.25	2.5	0.100
Lead (Pb)				
Greenhouse Gases (GHG)	**At Design Capacity (lb/hr)**	**At Projected Operations**		
		(lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO_2)	42.8	42.8	428	17.1
Methane (CH_4)				
Nitrous Oxide (N_2O)				
Hydrofluorocarbons (HFCs)				
Perfluorocarbons (PFCs)				
Sulfur Hexafluoride (SF6)				
Total GHG (as CO_2e)	42.8	42.8	428	17.1
List individual federal Hazardous Air Pollutants (HAP) below:	**At Design Capacity (lb/hr)**	**At Projected Operations**		
		(lb/hr)	(lb/day)	(ton/yr)
Aldehydes	0.018	0.018	0.18	0.007

(Attach additional sheets as necessary.)

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FORM 5EP: Emission Point Data

Complete one (1) Form 5EP for EACH emission point (stack or fugitive emissions) related to the proposed installation.

Applicant Name: Allan Myers MD, Inc.

1. Emission Point Identification Name/Number

List the applicant assigned name/number for this emission point and use this value on the attached required plot plan:
RAP Crusher, Screening, and Conveying Particulate Matter (Fugitive)

2. Emission Point Description

Describe the emission point including all associated equipment and control devices:
Fugitive particulate matter from RAP crushing, screening, and conveying

3. Emissions Schedule for the Emission Point

Continuous or Intermittent (C/I)?	Continuous	**Seasonal Variation** Check box if none: ☒ Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	
Hours per day:	10	Spring Percent	
Days per week:	5	Summer Percent	
Weeks per year:	16	Fall Percent	

4. Emission Point Information

Height above ground (ft):	10	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:	
Height above structures (ft):	0		100	80	
Exit temperature (°F):	Ambient	Inside diameter at top of round stack (ft):			
Exit velocity (ft/min):	N/A	Distance from emission point to nearest property line (ft):		195	
Exhaust gas volumetric flow rate (acfm):	N/A	Building dimensions if emission point is located on building (ft)	Height: NA	Length:	Width:

5. Control Devices Associated with the Emission Point

Identify each control device associated with the emission point and indicate the number of devices. ***A Form 6 is also required for each control device***. If none check none:

- ☒ None
- ☐ Baghouse No. _____
- ☐ Cyclone No. _____
- ☐ Elec. Precipitator (ESP) No. _____
- ☐ Dust Suppression System No. _____
- ☐ Venturi Scrubber No. _____
- ☐ Spray Tower/Packed Bed No. _____
- ☐ Carbon Adsorber No. _____
  - ☐ Cartridge/Canister
  - ☐ Regenerative
- ☐ Thermal Oxidizer No. _____
  - ☐ Regenerative
- ☐ Catalytic Oxidizer No. _____
- ☐ Nitrogen Oxides Reduction No. _____
  - ☐ Selective ☐ Non-Selective
  - ☐ Catalytic ☐ Non-Catalytic
- ☐ Other No. _____
  Specify:

FORM 5EP: Emission Point Data

6. Estimated Emissions from the Emission Point

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	1.94	1.94	19.4	0.776
Particulate Matter (filterable as PM2.5)				
Particulate Matter (condensables)				
Volatile Organic Compounds (VOC)				
Oxides of Sulfur (SOx)				
Oxides of Nitrogen (NOx)				
Carbon Monoxide (CO)				
Lead (Pb)				

Greenhouse Gases (GHG)	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO_2)				
Methane (CH_4)				
Nitrous Oxide (N_2O)				
Hydrofluorocarbons (HFCs)				
Perfluorocarbons (PFCs)				
Sulfur Hexafluoride (SF6)				
Total GHG (as CO_2e)				

List individual federal Hazardous Air Pollutants (HAP) below:	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)

(Attach additional sheets as necessary.)

Portable Trakpactor Emissions Calculations - AP42 Emission Factors

Assumptions: 10 Hours/day
18 gallons/hour diesel
130,500 Btu/gallon diesel
3530 tons/day
Throughput 353 tph - RAP

Stack - Engine Exhaust		23490000	Btu/day		23.49	MMBtu/day
PM-10	.31 lb/MMBtu	7.2819	lb/day		0.72819	lb/hr
SOx	.29 lb/MMBtu	6.8121	lb/day		0.68121	lb/hr
NOx	4.41 lb/MMBtu	103.5909	lb/day		10.35909	lb/hr
CO	.95 lb/MMBtu	22.3155	lb/day		2.23155	lb/hr
TOC	.36 lb/MMBtu	8.4564	lb/day		0.84564	lb/hr
CO2	164 lb/MMBtu	3852.36	lb/day		385.236	lb/hr
Aldehydes	0.07 lb/MMBtu	1.6443	lb/day		0.16443	lb/hr

Plant Aggregate - Fugitive Emissions RAP

	lb/day		ton/yr	
	Total PM	PM-10		
Conveyor 1	10.59	3.883	0.4236	0.15532
Crusher	4.236	1.9062	0.16944	0.076248
Total	14.826	5.7892	0.59304	0.231568

PM calculated at 3530 * 0.003 (conveyor transfer point, uncontrolled, for crushed stone, AP-42)
PM-10 calculated at 3530 * 0.0011 (conveyor transfer point, uncontrolled, for crushed stone, AP-42)
Crusher total PM calculated at 3530 * 0.0012 (tertiary crushing, controlled)
Crusher PM10 calculated at 3530 * 0.00054 (tertiary crushing, controlled)
Ton/year = lb/day *80/2000

180 gallons per day for 80 days equals 14,400 gallons

Portable RAP Screen Emissions Calculations - AP42 Emission Factors

Assumptions: 10 Hours/day
6 gallons/hour diesel
130,500 Btu/gallon diesel
5000 tons/day
Estimates high due to using aggregate screening and conveying info

Stack - Engine Exhaust		7830000	Btu/day	7.83	MMBtu/day
PM-10	.31 lb/MMBtu	2.4273	lb/day	0.24273	lb/hr
SOx	.29 lb/MMBtu	2.2707	lb/day	0.22707	lb/hr
NOx	4.41 lb/MMBtu	34.5303	lb/day	3.45303	lb/hr
CO	.95 lb/MMBtu	7.4385	lb/day	0.74385	lb/hr
TOC	.36 lb/MMBtu	2.8188	lb/day	0.28188	lb/hr
CO2	164 lb/MMBtu	1284.12	lb/day	128.412	lb/hr
Aldehydes	0.07 lb/MMBtu	0.5481	lb/day	0.05481	lb/hr

Plant Aggregate - Fugitive Emissions (all values in lb/day)

	Total PM	PM-10	
C1 to C4	15	5.5	(Conveyor transfer point, uncontrolled)
Screen	11	1.48	(Screening, controlled)
Total	26	6.98	

Note: Conveyors C1 to C4 have 5,000 tons total (combined) per day

11 X 80 = 880 = 0.44 tons
1.48 X 80 = 118.4 = 0.0592 tons
15 X 80 = 1200 = 0.6 tons
5.5 X 80 = 440 = 0.22 tons

Portable RAP Conveyor Emissions Calculations - AP42 Emission Factors

Assumptions: 10 Hours/day
2 gallons/hour diesel
130,500 Btu/gallon diesel
3000 tons/day
Estimates high due to using aggregate screening and conveying info

Stack - Engine Exhaust		2610000	Btu/day	2.61	MMBtu/day
PM-10	.31 lb/MMBtu	0.8091	lb/day	0.08091	lb/hr
SOx	.29 lb/MMBtu	0.7569	lb/day	0.07569	lb/hr
NOx	4.41 lb/MMBtu	11.5101	lb/day	1.15101	lb/hr
CO	.95 lb/MMBtu	2.4795	lb/day	0.24795	lb/hr
TOC	.36 lb/MMBtu	0.9396	lb/day	0.09396	lb/hr
CO2	164 lb/MMBtu	428.04	lb/day	42.804	lb/hr
Aldehydes	0.07 lb/MMBtu	0.1827	lb/day	0.01827	lb/hr

Plant Aggregate - Fugitive Emissions (all values in lb/day)

	Total PM	PM-10	
Conveyor	9	3.3	(Conveyor transfer point, uncontrolled)
Total	9	3.3	

9 X 80 = 720 = 0.36 tons
3.3 X 80 = 264 = 0.132 tons

PRINCE GEORGE'S COUNTY ZONING VERIFICATION

SITE DRAWING

ALLAN MYERS

Property

Tax Account: 0504092
Owner Name: GLOBAL RESOURCE RECYCLERS INC
Premise Address: 2600 Marble Ct, District Heights, MD 20747

Parcel Details

Tax Account #: 0504092
Assessment District: 06
Lot: 14 **Block:** B **Parcel:**
Description:
Plat: 06151024
Subdivision: FORESTVILLE CENTER-RESUB PT OF BLK A & B-PLAT 3>
Acreage: 3.3830

Ownership Information

Owner Name: GLOBAL RESOURCE RECYCLERS INC
Owner Address: 162 Lafayette Ave, Laurel, MD 20707
Liber: 08467 **Folio:** 837
Transfer Date: 9/30/1992
Current Assessment: $514,200.00
Land Valuation: $359,800.00
Improvement Valuation: $154,400.00
Sale Price: $0.00
Structure Area (Sq Ft): 1256

Administrative Details

Tax Map Grid: 082B3
WSSC Grid: 204SE07
Tree Conservation Plan 1:
Tree Conservation Plan 2: TCP2-097-97
Councilmanic District: Null

Military Installation Overlay - Noise

Noise Intensity Zone: Noise Intensity Zone
Decibel Range: 60 db - 74 db

Military Installation Overlay - Safety

Type Code: 83
Zone Name: Accident Potential Zone 2

Military Installation Overlay - Height

Zone Use: App/Dep Clearance (50:1) - North End
Area Label: B

Zoning

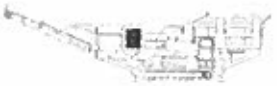
Zone Type: Industrial
Class: I-4 (Limited Intensity Industrial)

Allan Myers MD, Inc. - Global Resource Recyclers
2600 Marble Court
Forestville, MD 20747

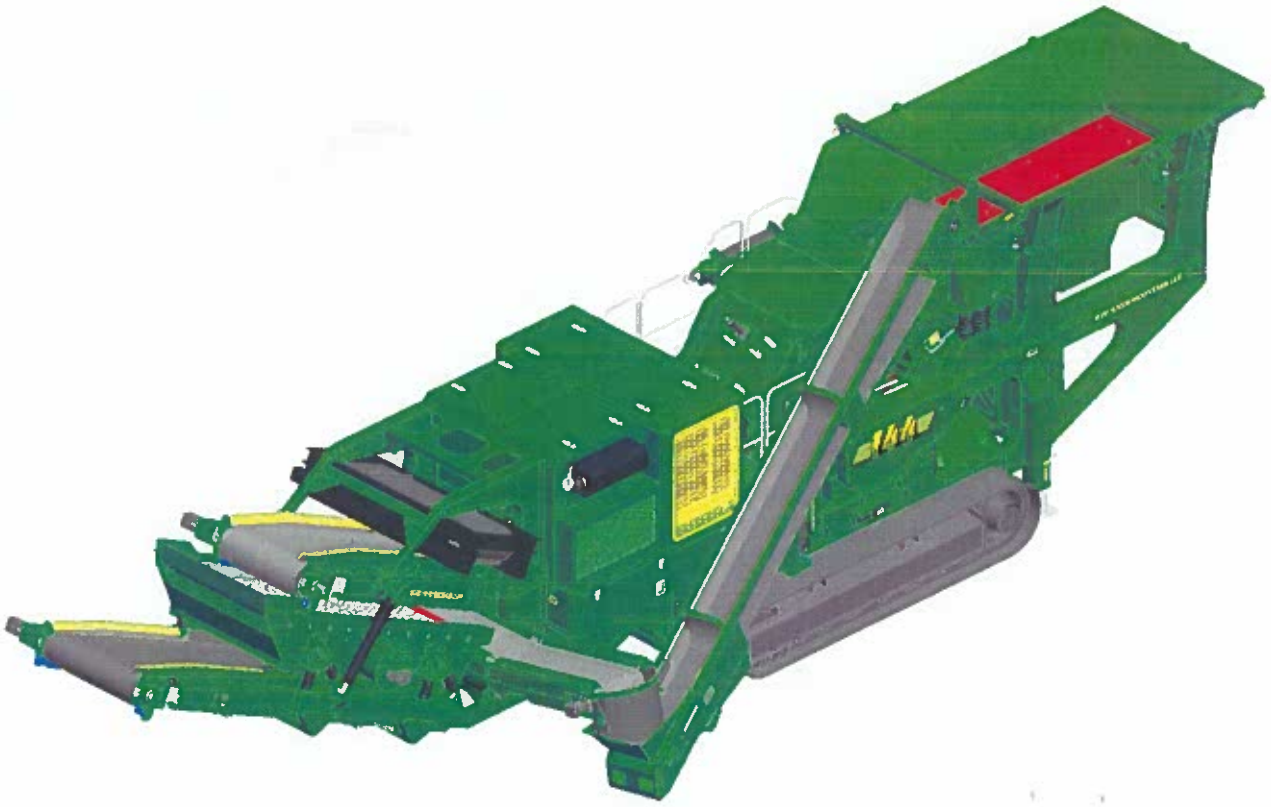
RAP Equipment Location

VENDOR LITERATURE

ALLAN MYERS



SPECIFICATIONS



McCloskey i44R

All specifications are current as of this printing, but are subject to change

DESCRIPTION

Heavy duty track mounted Crusher with following features:

- 1050mm (42") diameter x 1100mm (43") wide Impactor.
- 350Hp Cat C9 engine.
- Track or Track c\w Wheel bogie.
- Integrated hydraulic folding hopper.
- Integrated hydraulic folding stockpiling conveyors.
- I-beam plate fabricated chassis construction.
- Open chassis design for ease of maintenance
- Fast setup time
- Vibrating feeder under crusher discharge.

DIMENSIONS AND WEIGHTS

Length - transport model	15.348 (50' - 4")
Width - transport all models	3.08m (10' – 1")
Height - transport track	3.40m (11' – 2")
Weight – track	45,000 Kgs (99,207 lbs) inc magnet

CAPACITIES

Diesel tank capacity	635 L (168 US gal)
Hydraulic tank capacity	1210 L (320 US Gals)

IMPACTOR CHAMBER

Feed opening WxH	1150 x 800mm, (45.3 x 31.5")
Impactor rotor	1050mm (42") diameter x 1100mm (43.3") wide
Crusher speed	600-740 rpm (33-40 m/sec rotor tip speed)
Number of aprons	2 (3 with optional grinding path)
Number of blowbars	4 (3 bar optional)
Full blowbar weight	217 Kg (478 lbs)
Crusher Drive	Hydraulic – V-Belts
Feed size	450 x 450 x 450mm lump, (18" x 18" x 18")
Impactor weight	9,500kg (20,940 lbs) estimated
Closed side setting adjustment	Hydraulic rams, shim system
Motor	Kawasaki axial piston 280cc/rev
Flow rate	400 Lpm (105 US gpm)
Speed sensor	YES
Load sensor	Hydraulic

PAN FEEDER

Feeder width	1080mm (42.5")
Feeder length	4050mm (159.4")
Drive	Hydraulic
Motor	David Brown MCC 2208 58.7cc/rev
Flow rate	60.8 Lpm (16.1 US gpm)
Adjustable speed	Yes – via mechanical Flow Control
Variable speed	Yes – via electrical proportional
Maximum speed	1060rpm

All specifications are current as of this printing, but are subject to change

HOPPER

Length overall	4560mm (14' - 11")
Loading width	3491mm (11' - 5")
Width	2220mm (7' – 3")
Volume	5.4m^3 (7.4yd^3)
Material	8mm Hardox sides
Locking system	Wedge type and toggle

SIDE CONVEYOR

Stockpile height	2080mm (6' – 10")
Belt width	650mm (26")
Belt spec	EP 400/3 3+1.5
Drive drum dia.	220mm (8.6")
Tail drum dia.	220mm (8.6") - spoked
Motor	OMT400
Flow rate	43.7 Lpm (11.5 US gpm)
Adjustable speed	YES
Maximum speed	109 rpm

MAIN CONVEYOR

Belt width	1050mm (42")
Belt spec	Plain 500/3 8+2
Drive drum dia.	285mm (11.2")
Tail drum dia.	270mm (10.6") - spoked
Motor	OMV630
Flow rate	87.4 Lpm (23.1 US gpm)
Maximum speed	138.7 rpm
Angle adjustable	NO
Quick release	YES

FINES CONVEYOR

Stockpile height	2965mm (9' – 9")
Belt width	1200mm (48")
Belt spec	Plain 500/3 8+2
Drive drum dia.	285mm (11.2")
Tail drum dia.	270mm (10.6") - spoked
Motor	OMV630
Flow rate	68.4 Lpm (18.1 US gpm)
Maximum speed	108.6 rpm
Angle adjustable	NO
Quick release	YES

All specifications are current as of this printing, but are subject to change

SCREENBOX

Dimensions - top deck	3050mm x 1525mm (10' x 5')
Bearing type 2 Deck	NSK/RHP 22219
Screens - top deck	5' x 4' side tension - 2 off & 5' x 2' side tension - 1 off
Tensioning - top deck	Quick release pin and wedge
Screen angle	25 deg
Screen motor	DBH MCC2208 (59cc/rev)
Drive system	Direct drive with HRC150 coupling
Hydraulic flowrate	68.4 Lpm (18.1 US gpm)
Speed adjustable	YES - Pressure compensated FCV
Screen stroke adjustable	8 - 10mm
Screen shaft speed	950 rpm
Screen 'g' force	5.05

TRANSFER CONVEYOR

Belt width	650mm (26")
Belt spec	Plain 400/3 4+2
Drive drum dia.	200mm (8")
Tail drum dia.	200mm (8")
Motor	OMT400
Flow rate	43.7 Lpm (11.5 US gpm)
Adjustable speed	YES
Maximum speed	109.5 rpm

RETURN CONVEYOR

Belt width	500mm (20")
Belt spec	Chevron - 400/3 6+1.5
Drive drum dia.	290mm (11.5")
Tail drum dia. (Spoked)	270mm (10.6")
Motor	OMT400
Flow rate	43.7 Lpm (11.5 US gpm)
Adjustable speed	YES
Maximum speed	109.5 rpm

All specifications are current as of this printing, but are subject to change

PAN FEEDER UNDER IMPACTOR

Width	1160mm (45.7")
length	2030mm (80")
Base liners	10mm (3/8") stainless steel
Side liners	12mm (1/2" Hardox 400
Operating angle	13°
Vibrating motor	Twin out of balance mass
Hydraulic motor	2 off Eaton 32.9cc/rev
Fixed speed	YES
Flow rate	87.4 Lpm (23.1 US gpm)

POWERUNIT AND HYDRAULICS

Engine	CAT C9
Engine power	261 kW (350 HP)
Engine speed	1900 rpm
Flywheel Pump 1 (Crusher/Tracks)	Kawasaki K3V140DTP
LH PTO Pump 2 (Feeder/Side conveyor)	Turolla 33/23/10
Front PTO Pump 3 (Main conveyor/Pilots)	David Brown 5046
Front PTO Pump 4 (Screenbox/Return conveyor)	David Brown 5036 5023
Total system flow	724.9 Lpm (191.5 US Gpm)
Hydraulic tank capacity	1210 L (320 US Gals)
Hydraulic tank ratio	1.67 : 1
Twin Hydraulic Oil cooler	YES

ELECTRICS

Emergency stops	4 off, 2 feeder, 2 powerunit
Chassis cabling	Armored cable
Start Siren	YES - 10 sec delay
Control panel	Plus 1 Danfoss colour screen
Engine shutdowns:	Low oil pressure
	High water temp
	Air filter blockage (selectable)
	Fuel contamination
	Low hydraulic tank level
	High hydraulic return line filter backpressure
	High hydraulic water filter backpressure
	High hydraulic oil temperature
Engine room light	YES
Radio control tracks	OPTION - Hetronic system
Pendant track control	YES - plugged in control cabinet

All specifications are current as of this printing, but are subject to change

TRACKS

Width	400mm (15.7")
Length	3400mm (11' – 2") crs
Height	817mm (32")
Gearbox	Bonfiglioli 711 (or equivalent)
Ratio	153:1
Motor	Rexroth 90
Speed max	1.50 Kph (0.93 Mph)
Flow rate	138 Lpm (36.45 US gpm)
Multiple speeds	Three speed system selectable at control panel with smooth start / stop.
Attachment to chassis	Bolt On for quick change

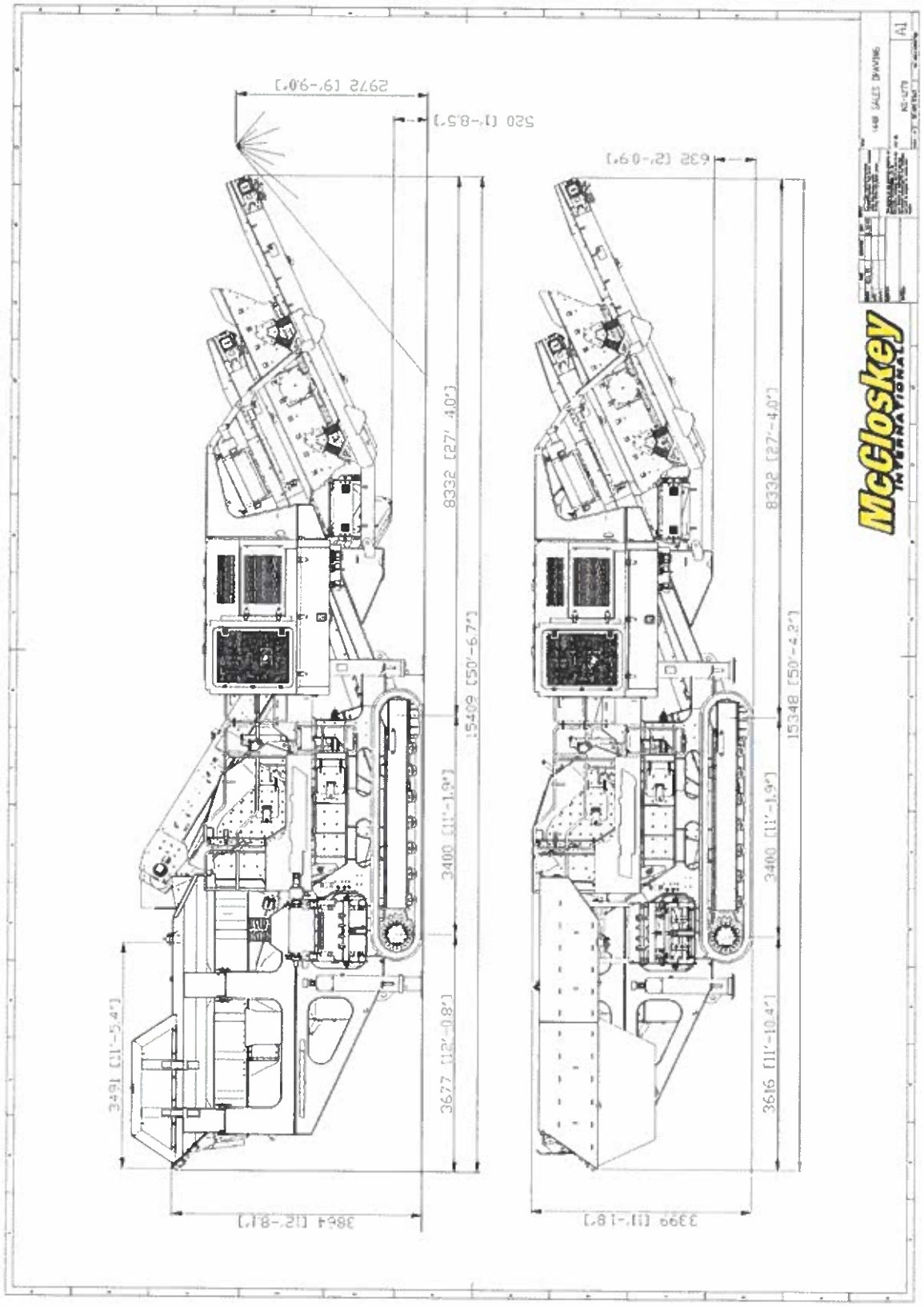
OPTIONS

Roll-in bogie system
Main conveyor variable speed control
Interlock system
Hopper Extensions
Overband magnet
Water Pump and dust suppression system
Various blow bar material options
Grinding path
3 or 4 bar rotor
Work lights
Belt Scale
Refueling pump
Recirculation Screen

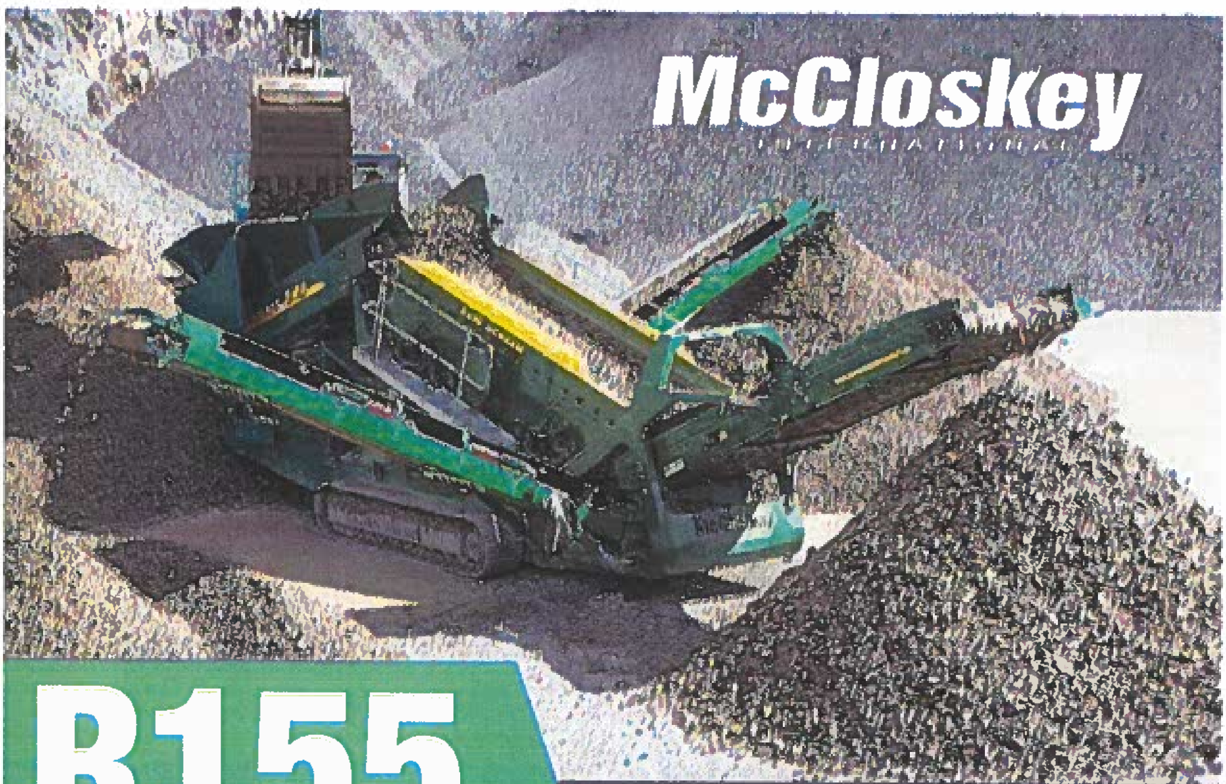
SAFETY FEATURES

External belt alignment points
External grease points
Engine safety shutdown systems
Full safety guarding for nip points

All specifications are current as of this printing, but are subject to change



All specifications are current as of this printing, but are subject to change



R155

High Energy Durable Screener

The McCloskey™ R155 High Energy Screener is a tough, robust screening tool designed to cope with the heaviest of applications. New for this R155 scalping screener are larger hopper and an extended tail conveyor. This provides maximum load flexibility to customers and accommodates a larger variety of loaders and can work in a variety of sites around the world.

No More Slow Loading! The R155 is designed for use with larger loaders. The 16ft hopper is 25% larger, allowing for more material and no spillage, making this R155 an excellent mobile solution for materials handling operations.

A perfect match for crushing spreads, in the two product position the extended tail conveyor will increase the discharge height 12' 3" and feed directly into a C2 or C3 Cone Crusher.

Features

- 16x5 heavy duty high energy 2 bearing screenbox
- 127hp diesel engine
- Direct feed Hardox lined hopper
- Travel out fixed walkways
- Integrated hydraulic folding stockpiling conveyors
- Fast on site setup time – 10 minutes
- Screen raises at lower end for easy bottom deck access
- Service standing room inside Powerpack
- Track mobile

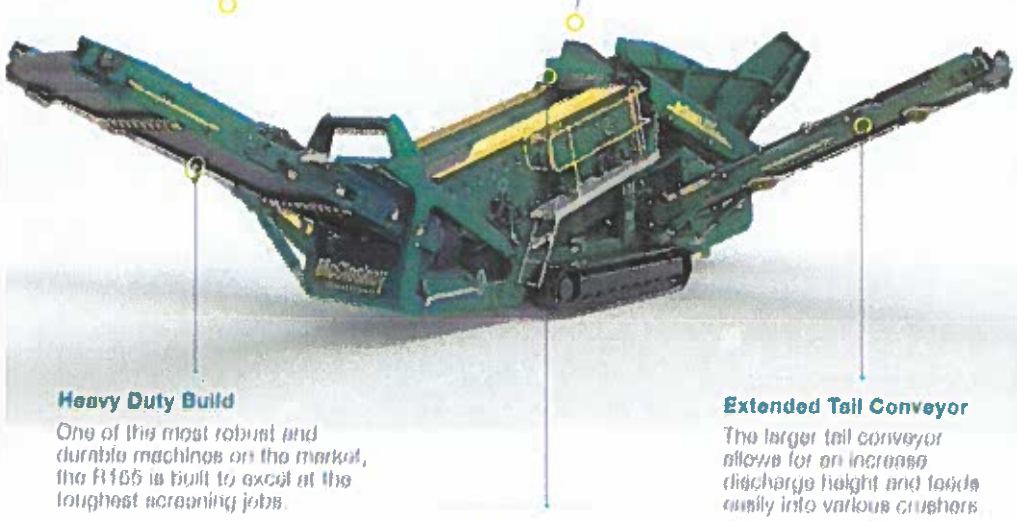
McCloskey
INTERNATIONAL

Wide Feed Opening

Allows for free flow of material and high volume capacity.

16' Hopper

A larger 16ft wide hopper designed to be used with larger loaders, allowing for more material and no spillage.



Heavy Duty Build

One of the most robust and durable machines on the market, the R155 is built to excel at the toughest screening jobs.

Extended Tail Conveyor

The larger tail conveyor allows for an increase discharge height and feeds easily into various crushers.

Screenbox

High Energy 5' x 16' screenbox delivers the highest product capacity.

mccloskeyinternational.com

SPECIFICATION DATA

Dimensions and Capacities

Engine	127 Hp (95 kW) Diesel
Transport Height	11' 2" (3.40m)
Transport Length	50' 2" (15.30m)
Transport Width	8' 6" (2.59m)
Weight	29,800 Kgs (65,697 lbs)
Stockpile Height - Extended Tail Conveyor	12' 3" (3.73m)
Stockpile Height - Side Fines Conveyor	13' (3.96m)
Stockpile Height - Side Mid Conveyor	11' 10" (3.60m)
Screenbox Dimensions	5' x 16' (1525 mm)

McCloskey
INTERNATIONAL

ST80T

High Performance Tracked Stacker

The McCloskey™ ST Tracked Stackers are all about efficiency, from its speedy setup time to its high degree of mobility, downtime is minimized while throughput and stockpile capacity are maximized.

Hydraulic main lift and top fold are standard, as is the diesel power unit. Electric and dual power are also available to get the job done, no matter what application. The 22.5 degree maximum conveyor angle allows for the highest stockpiles per conveyor length in the industry.

With its durable truss frame, large feed hopper and base production capacity of 500 TPH with optional upgrades to 800 TPH, the McCloskey ST Tracked Stackers stand up well above the competition.

Available as a radio controlled track-mounted unit.

Features

- 900mm (36") wide heavy duty 80' long conveyor
- 36.5 kW (49 Hp) Tier 4 diesel engine
- On-site track mobility
- Large feed hopper
- Hydraulic folding frame for easy transport
- Fast on-site setup time (5 minutes)
- Abundant service room inside the power-pack
- Adjustable hopper height to optimize operational efficiency

McCloskey
INTERNATIONAL

Hydraulic Top Fold
Straightforward hydraulic controls to fold and unfold, raise and lower the conveyor.

80' Conveyor
24.38m (80') long conveyor with 900mm (36") wide 3-ply belt.

Large Feed Hopper
Up to 10m (32' 10") high stockpile with 1556m³ (2035 yd³) capacity

Shutdown Systems
Engine safety shutdown systems.

Radio Remote Track Control
Provides remote maneuverability and enhances safety for moving freely to the best location.

mccloskeyinternational.com

SPECIFICATION DATA

Dimensions and Capacities

Engine	36.5 kW (49 Hp) Diesel
Belt Length	80' (24.38m)
Belt Width	900mm (36")
Stockpile Height	10.0m (32' 10")
Stockpile Capacity	1556m³ (2035 yd³)
Transport Length	15.75m (51' 8")
Transport Height	3.43m (11' 3")
Transport Width	2.49m (8' 2")

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PRINCE GEORGE'S COUNTY

DEPARTMENT OF PERMITTING, INSPECTIONS AND ENFORCEMENT
PERMITTING CENTER

CERTIFICATE OF OCCUPANCY

EFFECTIVE DATE: **January 26, 2022** CASE NUMBER : **27861-2021-01**

PERMISSION IS HEREBY GRANTED TO OCCUPY :

2601 MARBLE CT DISTRICT HEIGHTS, MD 20747

COPY

CASETYPE :	DPIE UO		
OWNERSHIP :		PARKING SPACES :	0
USE GROUP :		SPECIAL EXCEPTION :	
CONST. TYPE :		LOT :	13
TAX MAP :	082	BLOCK :	B
ZONE :	I4	PARCEL :	

LIMITATIONS (UP TO) :
Ok for recycling of asphalt pavement processing plant with the use of portable equipment per 35393-2009-CGU

USE (DPIE PROPOSED) :
RECYCLED ASPHALT PAVEMENT (RAP) PROCESSING

PROPERTY OWNER

GLOBAL RESOURCE RECYCLERS
2600 MARBLE CT #
FORESTVILLE, MD 20747

COPY

OCCUPANT

ALLAN MYERS
2601 MARBLE CT #
DISTRICT HEIGHTS, MD 20747
TRADE NAME :

CERTIFICATE IS TO BE CONSPICUOUSLY DISPLAYED AND NOT REMOVED FROM THE PREMISE FOR WHICH IT WAS ISSUED.

IT IS NOT TRANSFERABLE.

Melinda Bolling

Melinda Bolling
BUILDING CODE OFFICIAL

YOU MUST COMPLY WITH MUNICIPAL, HOMEOWNER/CIVIC ASSOCIATION AND LOCAL COVENANTS. A FINE MAY BE IMPOSED IF CONSTRUCTION IS BEGUN WITHOUT REQUIRED APPROVALS.

MNCPPC – M. Hughes
Approved – 10/14/2021
Permit #27861-2021-U
Ok for recycling of asphalt pavement processing plant with the use of portable equipment per 35393-2009-CGU

PLANTING SPECIFICATIONS

I. **General**

A. Scope: The Landscape Contractor shall provide all labor, materials, and equipment necessary to complete the work shown on the drawings and described in the specifications. The Landscape Contractor shall verify all quantities of plant material shown on the plan and in the plant list. In the event of a discrepancy between the quantities shown on the plan and the plant list, the plan shall govern. Immediately inform the Landscape Architect of any such discrepancy before delivering or installing any plant material.

B. Utilities: The Landscape Contractor shall notify Miss Utility (1-800-257-7777) to verify the location of all main utilities and shall ask the General Contractor to locate lighting and other on-site utilities in the field before proceeding with the installation of any planting. If conditions arise in the field which necessitate the shifting of a plant location more than 15', the Landscape Architect is to be consulted.

C. Substitutions: Any change in the type, size and quantity of plant material must be approved by the Landscape Architect prior to installation.

D. Quality Standards: All plant material must be nursery grown and meet all of the qualitative criteria established by the current issue of the American Standard for Nursery Stock specifications published by the American Nursery & Landscape Association.

Furthermore, all plant material must exhibit a full, symmetrical habit of growth that is characteristic of quality grown nursery stock. Any plant material exhibiting a spindly or lop-sided habit or any other feature that detracts from its health or appearance, will be rejected.

E. Dug Material: All dug plant material shall have been dug before bud break or after leaf maturation. Any plant material exhibiting drooping new growth within two (2) weeks of being planted will be rejected and must be removed from the job.

Balled and burlapped plants shall be dug with firm natural balls of earth.

Anti-desiccants shall be applied on all material dug while in foliage.

F. Poor Drainage: No plants shall be planted in situations that show obvious poor drainage. Such situations shall immediately be brought to the attention of the Landscape Architect and Owner, and if they deem necessary, the plants shall be relocated or the contract shall be adjusted to allow for drainage correction at a negotiated cost.

G. Site Preparation: It shall be the General Contractor's responsibility to present "clean" soil conditions to the Landscape Contractor prior to any landscape installation. "Clean" soil may include on-site soil but must be free of pavement materials, muck, root systems, petroleum or other chemical substances, blue stone, construction debris and other materials larger than 4" in diameter. The "clean" soil shall extend to the following minimum depths: 18" where trees are proposed, 12" where shrubs are proposed and 4" where lawn is proposed. If the Landscape Contractor encounters any areas to be deficient regarding these "clean" soil specifications, he shall report this condition to the Landscape Architect and Owner prior to planting in those areas.

H. Workmanship: During planting, all areas shall be kept neat and clean, and all reasonable precautions shall be taken to avoid damage to existing plants, turf and structures. Upon completion, all debris and waste material resulting from planting operations shall be removed from the project and the area cleaned up. Any damaged areas shall be restored to their original condition.

I. Water: If available on-site, the Owner shall supply water at no cost. It will be the Landscape Contractor's responsibility to supply water if there is none on the site.

J. Guarantee: All plant material shall be guaranteed for a period of one (1)year. It is the Landscape Contractor's responsibility to assure that all plant material be maintained in a healthy condition during this period.

The Landscape Contractor shall replace within 30 days of notice any and all plant material that declines to less than 75% of its original planted condition due to cultural reasons. The Landscape Contractor shall not be responsible for replacing plants for cultural reasons after the first instance of decline. If decline for cultural reasons occurs a second time, the Landscape Architect shall be notified and an alternative planting remedy will be negotiated at an extra cost to the owner.

The Landscape Contractor shall not be held responsible for any plant losses due to mechanical injury, theft or vandalism after the job is accepted by the owner.

II. **Planting Procedures**

A. Planting Beds: With the exception of those trees shown on the plan as individuals, all plants are to be planted into prepared planting beds which are designated on the plan with dashed outlines. The outline of each bed shall be spade dug to be a smooth, continuous sharp-cut edge. The entire area within the outline of the bed shall be thoroughly loosened to a depth of 6-8" by picking or other means and all materials unsuitable for plant growth and all rocks and debris greater than 4" diameter are to be removed. Topsoil (that meets the qualitative description of the Maryland State Highway Administration's Materials Specification 920.02 Natural Topsoil) shall be applied over the loosened subsoil to a minimum depth of 6", creating a slightly raised planting bed in relation to the surrounding area.

B. Tree Planting:

1. Preparing tree pit: The walls of the tree pit shall be dug so that they are vertical and scarified. The diameter of the pit shall be a total of 24" wider than the ball diameter. Care should be taken not to excavate the tree pit below a depth that allows 2" of the ball to be above finished grade. If the pit is dug too deep, then the bottom of the pit must be firmly tamped (to prevent settlement).

2. Placing Tree in Pit: Place the tree in the pit either by lifting and carrying the tree by its ball (never lift by branches or trunk) and then lowering it into the pit.

Set the tree straight and in the center of the pit with the most desirable side of the tree facing toward the prominent view (sidewalk, building, street, etc.).

3. Backfilling Tree Pit: Backfill the tree pit with a mixture of 2/3 original excavated material amended with 1/3 topsoil (as specified in II.A. above)(This step will have been partially completed if the tree is planted into a prepared bed as described above.)

Backfill sides of tree pit halfway with soil mixture and tamp before adding more backfill. Cut rope or wire on ball of tree and pull burlap back to the edge of the tree ball. Remove all plastic wraps and twine.

Finish backfilling sides of tree pit and tamp firmly. Never cover top of root ball with soil.

Form a saucer above existing grade and around the outer rim of the tree pit. Mulch top of root ball and saucer within 48 hours to a depth of 2" to 3".

Water thoroughly on the interior of the tree saucer until it is filled, even if it is raining. A second watering may be necessary to insure saturation of the root ball. Prune out any dead or broken branches.

4. Tree bracing: All trees less than 2" cal. are to be braced with two (2) 6' hardwood stakes 180 degrees apart. All trees 2" cal. or larger are to be braced with three (3) guy wires and ground stakes spaced evenly apart (120 degrees) in a circle (see details on plan for additional information). Staking and guying shall be completed within 48 hours of planting the tree.

C. Shrub Planting:

1. Preparing Shrub Pit: The walls of the shrub pit shall be dug so that they are vertical and scarified. The diameter of the pit shall be a total of 12" wider than the ball diameter. The depth of the pit shall be at an elevation that allows 2" of the ball to be above finished grade, after the bottom of the pit has been firmly tamped (to prevent settlement).

2. Placing Shrub in Pit: Container grown material shall have the container removed and the outside of the root ball examined for the presence of encircling roots. If present, these roots should be severed with a sharp knife and loosened from the earth ball by means of pulling them out slightly by hand prior to planting. Place the shrub in the pit either by lifting or carrying the shrub by its root ball (never lift by branches) and then lowering it into the pit.

Set the shrub straight and in the center of the pit with the most desirable side of the shrub facing toward the prominent view (sidewalk, building, street, etc.).

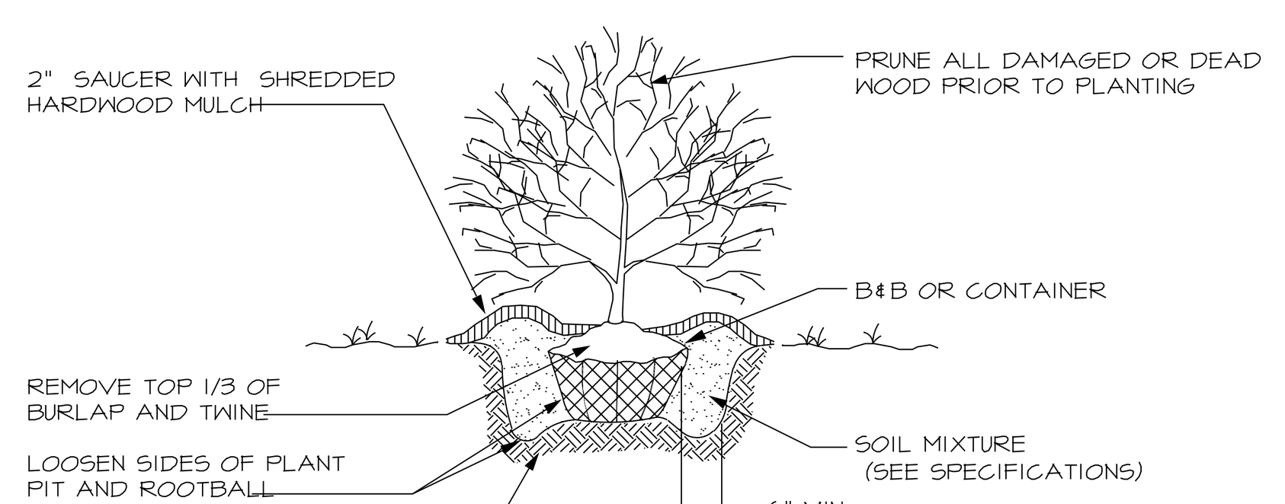
3. Backfilling Shrub Pit: Backfill the shrub pit halfway with soil mixture and tamp before adding more backfill. Cut rope or wire on ball of shrub and pull burlap (if B&B) back to the edge of the root ball. Remove all plastic wraps and twine.

Finish backfilling sides of pit and tamp firmly. Never cover top of root ball with soil. Form a saucer above existing grade and around the outer rim of the shrub pit. Mulch top of root ball, saucer, and the entire planting bed within 48 hours to a depth of 2" to 3".

Water thoroughly on the interior of the shrub saucer until it is filled, even if it is raining. A second watering may be necessary to insure saturation of root ball. Prune out any dead branches.

D. Seeding & Sodding

All disturbed areas not covered by buildings, pavements and planting areas are to be established in a lawn of turf-type Tall Fescue either by seed or sod, or combination, depending on the time of year, availability of materials and Owner's preference.



SHRUB PLANTING DETAIL
DECIDUOUS OR EVERGREEN
NO SCALE SECTION

PLANT LIST						
SYM.	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
ek	7	Euonymous kiautschovicus "Manhattan"	Manhattan Spreading Euonymous	24"-30" Ht.	3' o.c.	Cont.(Maintain as clipped hedge)

GENERAL NOTES

1. This Site Plan is for the replacement of the existing office trailer with a new 1,200 SF Office Building.
2. The subject property is zoned I-4. Surrounding properties are zoned I-4, and and R-80 as shown hereon.
3. The use of this property is for:
   1. Recycling Plant
   2. Manufacturing or cutting of structural products made of clay, concrete, glass, stone or similiar materials.
4. Total site area = 367,655 SF or 8.4402 Ac.
   Net lot area = 280,915 SF or 6.4489 Ac.
5. Total Disturbed Area = 3,949 SF or 0.0907 Ac.
   Area to be left undisturbed= 363,706 SF or 8.3495 Ac.
6. Parking
   A. Required: 5 spaces

Use	Rate	Requirement
Office (1,200 SF)	1 spaces per 250 SF GFA	5 spaces *

   * Of which at least 3 (2/3 of requirement) must be non-compact.

   B. Provided: 6 spaces as follows;
   5 Standard Spaces @ 9.5' x 19' min.
   1 Van Accessible Handicap Spaces @ 8' x 19' with 8' access aisle.
7. Loading
   A. Required: 0 spaces
   B. Provided: 0 spaces
8. Gross Floor Area = 1,200 SF
9. The subject property appears on Washington Suburban Sanitary Commission Sheet 204SE07.
10. The subject property appears on Tax Map 82, Grid B2, B3.
11. The subject property has an existing Water/Sewer Category of W3/S3 and a proposed Water/Sewer Category of W3/S3.
12. A ten-foot Public Utility Easement shall be provided along all public and private vehicular rights-of-way.
13. There is no evidence of a cemetery on or contiguous to the subject property.
14. There are no historic structures on or near the subject property.
15. There are no wetlands or Waters of the United States on the subject property.
16. There is a 100 year floodplain on the subject property as shown hereon.
17. The subject property is not located within the Chesapeake Bay Critical Area.
18. The base information, topograhpy, and landscape was taken from M-NCPPC permit records and the boundary and topography within the limits of disturbance shown hereon was prepered by BDAI.
19. Applicant: Chamberlain Contractors, Inc.
    162 Lafayette Avenue
    Laurel, MD 20707
    ATTN: Harold Green
    (866)670-1234
20. Green Area: Required = 70,229 SF (25% of Net Lot Area)
    Provided = 141,524 SF (50.4% of Net Lot Area)
21. All on-site concrete curb and gutter to be Prince George's County Std. No. 300.01 unless otherwise modified.
22. All parking spaces shall be defined by 4" wide white painted striping.
23. Radii on islands and curb work to be 5 feet unless otherwise shown.
24. Minimum grade on areas not paved: 2.5% unless otherwise noted. 2% in swales.
    Maximum grade: 2:1
    Contour interval: 2 feet
    Vertical datum is based on NAVD 1929 Datum.
    Horizontal datum is based on WSSC Datum.
25. Call "MISS UTILITY" at 1-800-257-7777 at least 48 hours prior to beginning work to determine the location of existing utilities. The "MISS UTILITY" verification number must be updated every 10 days.
26. All grading work shall be in accordance with Division 3 of the Prince George's County Building Code (Subtitle 4, latest edition).

    All proposed load-bearing fills for the support of buildings, walls and other structures shall be Class I. All fills for the support of roadways, pavements, rigid utility lines and house connections shall be Class II. All landscaped areas, lawns and plantings, or other nonload bearing uses shall be Class III. Each layer of Class I and Class II fills shall be compacted at optimum moisture content and to a minimum of 95% and 90% respectively of maximum density as determined in the laboratory by the Standard Proctor Test. (AASHTO T-99, ASTM D-698). In-place density tests shall be provided by a licensed Geotechnical Engineer.

    The site geotechnical analysis and report prepared by a Maryland licensed Geotechnical Engineer shall be consulted and used to provide details for pavement sections, lift thickness, compaction, drainage, and any other site specific recommendations and requirements. Those recommendations and requirements shall take precedence over any conflicting information between the plans and report.
27. Upon completion of work, site grading, drainage, property corner and landscape observations and certifications must be performed by a licensed professional, confirming that all work has been completed in accordance with the permit, approved plans, and codes. These certifications are required to finalize the permit and release bonds.
28. All grades, elevations, earth quantities, etc., are to be verified by the contractor. Any earth quantities shown or implied are measured to final grade and are approximate. No allowance has been made for unsuitable material encountered during construction. Suitability of soil for use in fill areas or stability of cut areas, compaction, etc., should be determined by a soils engineer.
29. The contractor will be responsible for any damage to the existing structures and underground utilities.
30. The contractor will have sole responsibility for the construction means, methods, and techniques of executing his work, including safety.
31. No handicap parking space shall have a slope greater than 2.0% in any direction. No handicap ramp shall have a longitudinal slope greater than 8.3% or a cross slope greater than 2.0%.
32. Unless otherwise shown, all sidewalks shall have a cross slope no greater than 2%.
33. Dimensions shown in the parking and drive areas are to face of curb, where applicable.
34. All exterior light poles are to be set back at least 2.0' from the face of curb when located on vehicular surfaces or head in parking spaces unless otherwise shown.
35. Arrows shown in drive aisles indicate general direction of travel and are not intended to convey a requirement that arrows be painted on the pavement.

COMMERCIAL AND INDUSTRIAL LANDSCAPED STRIP #2 (Section 4.2)

1. Linear feet of street frontage, not including parking lots and driveway entrances: 384.32'
2. Option selection: I
3. Number of plants required:
   11 shade trees (or equivalent ornamental or evergreen trees)
   110 shrubs
4. Number of plants provided:
   11 shade trees
   ornamental trees
   evergreen trees
   120 shrubs

(Commercial/Industrial Landscape Strip was installed under permit 789-93 CGU and is existing)

BUFFERYARD No. 1 (Section 4.7)

1. Use category of proposed development: Recycling Plant
2. Impact of proposed development: "H"
3. Use category of adjoining development: VACANT
4. Impact of adjoining development: ASSUME "M"
5. Minimum required bufferyard: B
6. Minimum building setback: 30 ft.
7. Minimum width of landscaped yard: 20' (SPLIT 50% - 50%)
8. Linear feet of buffer strip required along property: 322.51 L.F.
9. Percentage of required bufferyard occupied by existing woodland: 100%
10. Six-foot fence or wall or five-foot berm employed in bufferyard:
    ___ yes _X_ no 3.2251 x 80 = 258
11. Total number of plant units required in buffer strip: 258
12. Number of shade trees provided: _20 x 10 p.u. = 200 p.u. (Exist. Trees)
    Number of evergreen trees provided: ___ x 5 p.u. = ___ p.u.
    Number of ornamental trees provided: ___ x 5 p.u. = ___ p.u.
    Number of shrubs provided: ___ x 1 p.u. = ___ p.u.
13. Total number of plant units provided in buffer strip: 258

(Bufferyard was installed under permit 789-93 CGU and is existing)

BUFFERYARD No. 2 (Section 4.7)

1. Use category of proposed development: Recycling Plant
2. Impact of proposed development: "H"
3. Use category of adjoining development: VACANT
4. Impact of adjoining development: ASSUME "M"
5. Minimum required bufferyard: B
6. Minimum building setback: 30 ft.
7. Minimum width of landscaped yard: 20' (SPLIT 50% - 50%)
8. Linear feet of buffer strip required along property: 823.56'
9. Percentage of required bufferyard occupied by existing woodland: 10%
10. Six-foot fence or wall or five-foot berm employed in bufferyard:
    ___ yes _X_ no 8.2356 x 80 = 660
11. Total number of plant units required in buffer strip: 660
12. Number of shade trees provided: ___ x 10 p.u. = ___ p.u.
    Number of evergreen trees provided: _132 x 5 p.u. = 660 p.u.
    Number of ornamental trees provided: ___ x 5 p.u. = ___ p.u.
    Number of shrubs provided: ___ x 1 p.u. = ___ p.u.
13. Total number of plant units provided in buffer strip: 660

(Bufferyard was installed under permit 789-93 CGU and is existing)

BUFFERYARD No. 3 (Section 4.7)

1. Use category of proposed development: Recycling Plant
2. Impact of proposed development: "H"
3. Use category of adjoining development: VACANT
4. Impact of adjoining development: ASSUME "M"
5. Minimum required bufferyard: B
6. Minimum building setback: 30 ft.
7. Minimum width of landscaped yard: 20' (SPLIT 50% - 50%)
8. Linear feet of buffer strip required along property: 198.12'
9. Percentage of required bufferyard occupied by existing woodland: 0%
10. Six-foot fence or wall or five-foot berm employed in bufferyard:
    _X_ yes ___ no 1.9812 x 80/2 = 80
11. Total number of plant units required in buffer strip: 80
12. Number of shade trees provided: ___ x 10 p.u. = ___ p.u.
    Number of evergreen trees provided: _18 x 5 p.u. = 90 p.u.
    Number of ornamental trees provided: ___ x 5 p.u. = ___ p.u.
    Number of shrubs provided: ___ x 1 p.u. = ___ p.u.
13. Total number of plant units provided in buffer strip: 90

(Bufferyard was installed under permit 789-93 CGU and is existing)

BUFFERYARD No. 4 (Section 4.7)

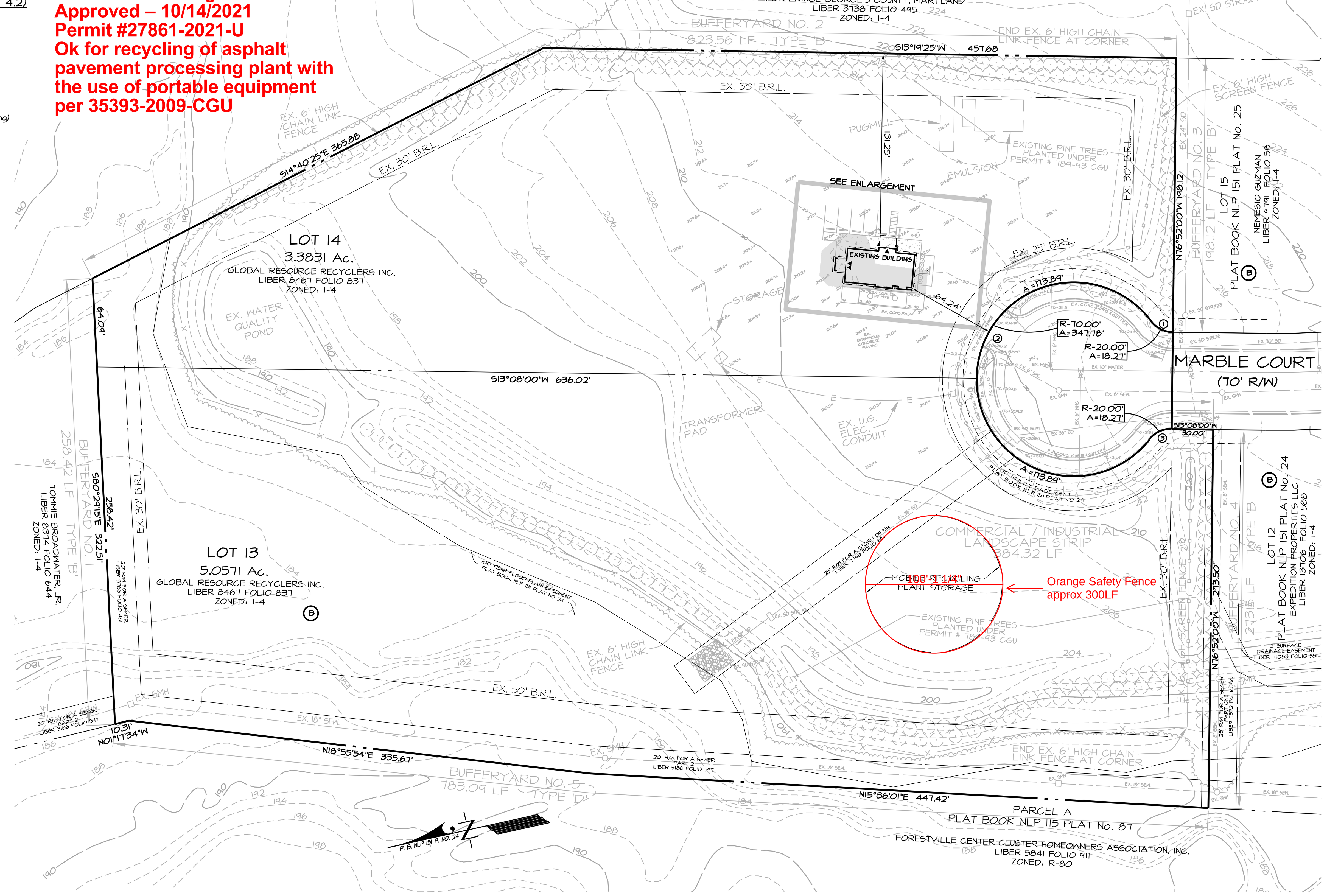
1. Use category of proposed development: Recycling Plant
2. Impact of proposed development: "H"
3. Use category of adjoining development: VACANT
4. Impact of adjoining development: ASSUME "M"
5. Minimum required bufferyard: B
6. Minimum building setback: 30 ft.
7. Minimum width of landscaped yard: 20' (SPLIT 50% - 50%)
8. Linear feet of buffer strip required along property: 273.50'
9. Percentage of required bufferyard occupied by existing woodland: 0%
10. Six-foot fence or wall or five-foot berm employed in bufferyard:
    _X_ yes ___ no 2.735 x 80/2 = 110
11. Total number of plant units required in buffer strip: 110
12. Number of shade trees provided: _1_ x 10 p.u. = _10 p.u.
    Number of evergreen trees provided: _20 x 5 p.u. = 100 p.u.
    Number of ornamental trees provided: ___ x 5 p.u. = ___ p.u.
    Number of shrubs provided: ___ x 1 p.u. = ___ p.u.
13. Total number of plant units provided in buffer strip: 110

(Bufferyard was installed under permit 789-93 CGU and is existing)

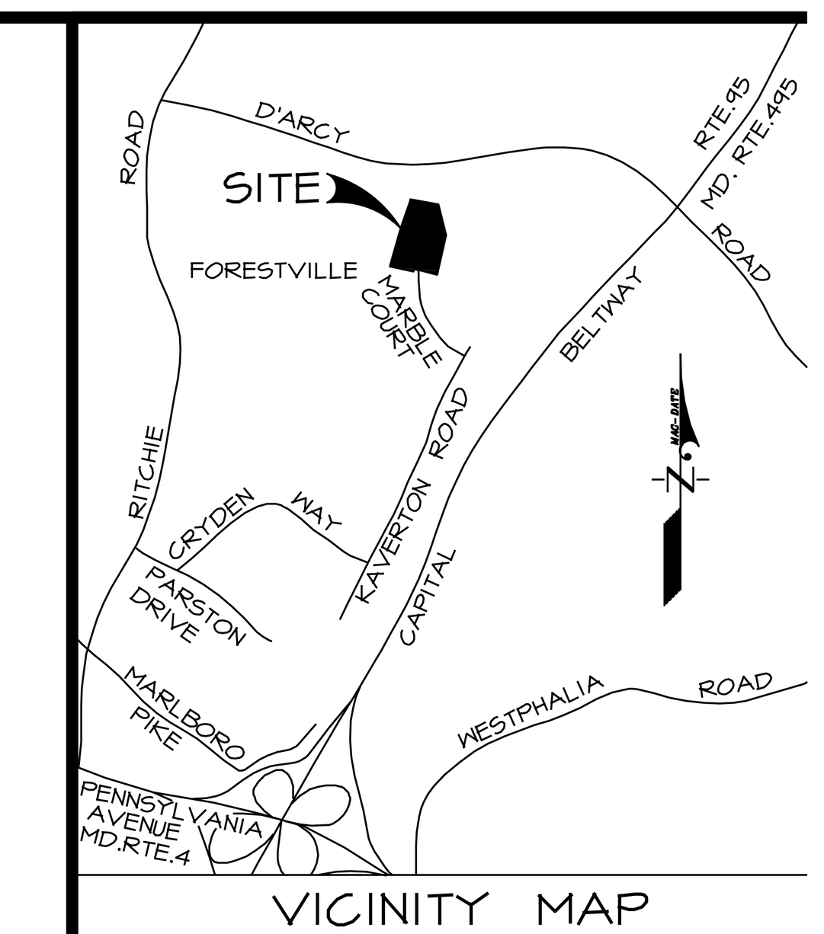
BUFFERYARD No. 5 (Section 4.7)

1. Use category of proposed development: Recycling Plant
2. Impact of proposed development: "H"
3. Use category of adjoining development: N/A
4. Impact of adjoining development: S.F.D.
5. Minimum required bufferyard: D
6. Minimum building setback: 50 ft.
7. Minimum width of landscaped yard: 40'
8. Linear feet of buffer strip required along property: 783.09 LF
9. Percentage of required bufferyard occupied by existing woodland: 80%
10. Six-foot fence or wall or five-foot berm employed in bufferyard:
    ___ yes _X_ no 7.83 x 0.20 x 160 = 251
11. Total number of plant units required in buffer strip: 251
12. Number of shade trees provided: ___ x 10 p.u. = ___ p.u.
    Number of evergreen trees provided: _90 x 5 p.u. = 450 p.u.
    Number of ornamental trees provided: ___ x 5 p.u. = ___ p.u.
    Number of shrubs provided: ___ x 1 p.u. = ___ p.u.
13. Total number of plant units provided in buffer strip: 450

(Bufferyard was installed under permit 789-93 CGU and is existing)



SITE PLAN
1" = 50'

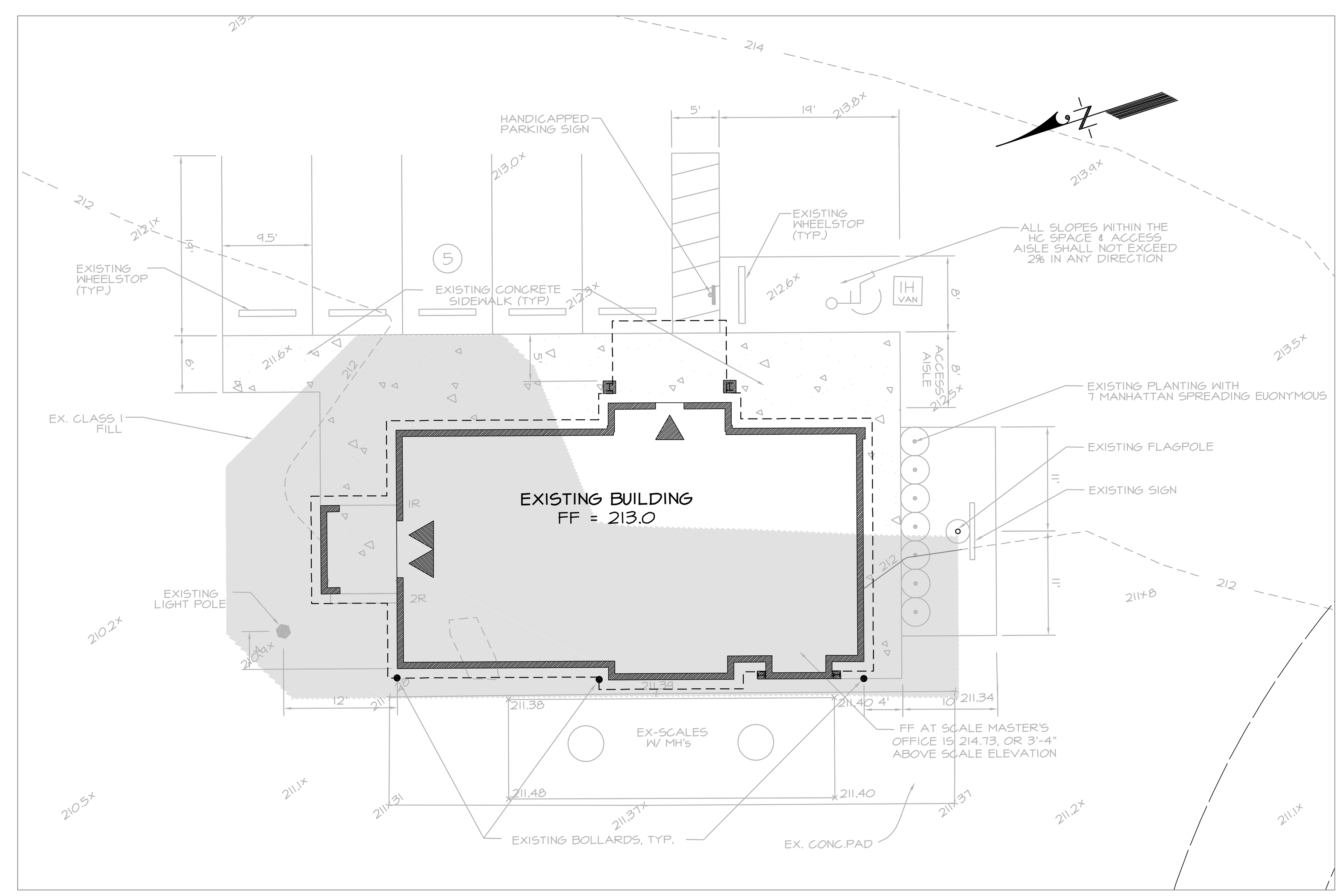


VICINITY MAP
SCALE: 1" = 2000'

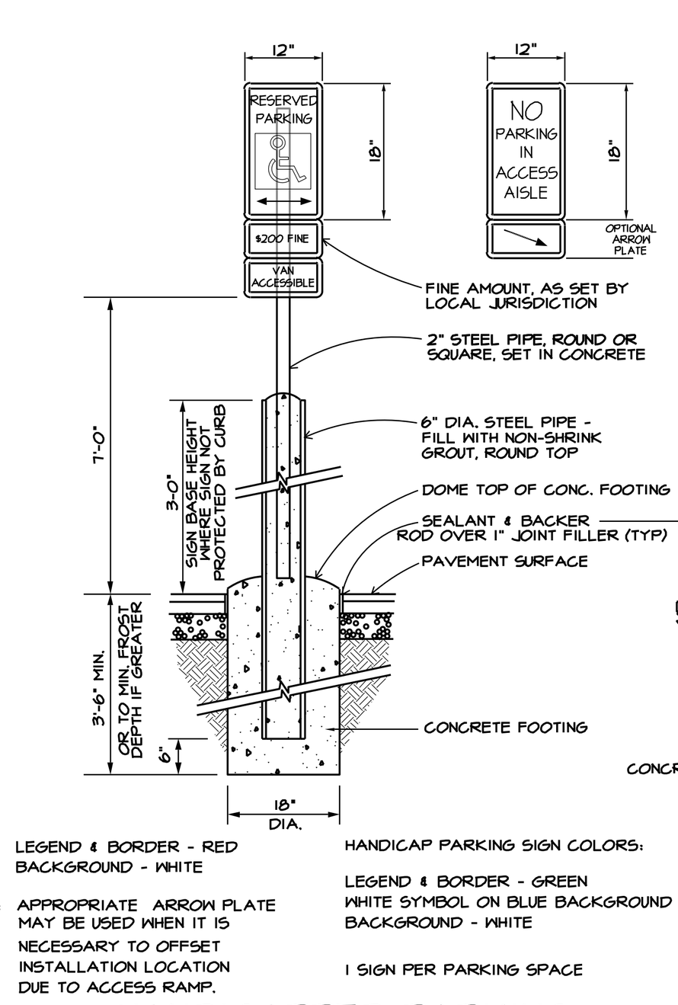
LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- LIMIT OF DISTURBANCE
- PROPOSED FLOW ARROWS
- PROPOSED CLASS I FILL
- PROPOSED CONCRETE PAVING
- PROPOSED HEAVY DUTY CONCRETE PAVING
- PROPOSED HEAVY DUTY ASPHALT PAVING
- PROPOSED DOOR LOCATIONS
- EXISTING SEWER
- PROPOSED SEWER
- EXISTING WATER
- PROPOSED WATER
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- EXISTING TREE LINE
- PROPOSED TREE LINE
- STANDARD PARKING SPACES
- COMPACT PARKING SPACES
- HANDICAPPED PARKING SPACES
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- PROPOSED CHAIN LINK FENCE
- PROPOSED WOOD SCREEN FENCE

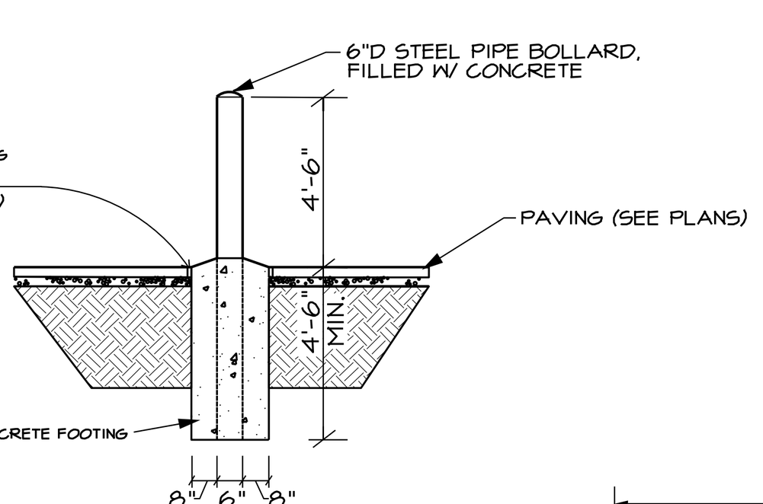
THE CONTRACTOR SHALL NOTIFY MISS UTILITY 1-800-257-7777, FORTY-EIGHT (48) HOURS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.



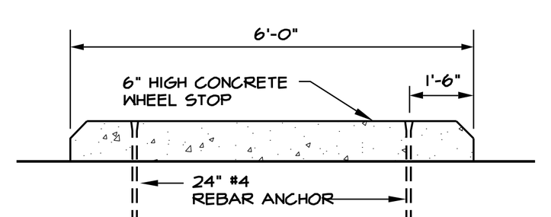
ENLARGEMENT
1" = 10'



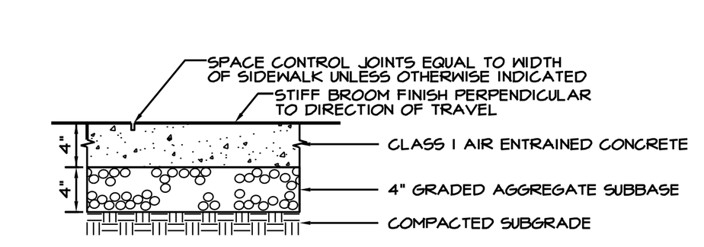
HANDICAPPED PARKING AND ACCESS AISLE SIGN
NTS



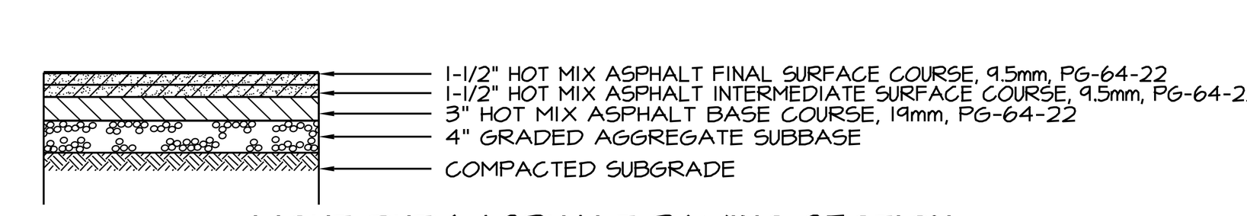
BOLLARD DETAIL
NTS



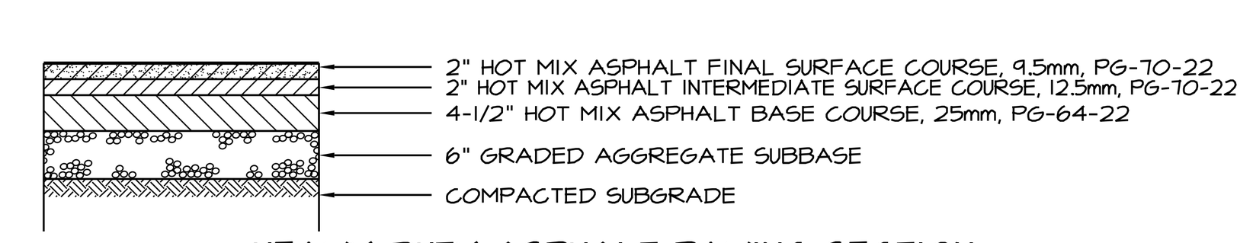
CONCRETE WHEEL STOP
NTS



CONCRETE SIDEWALK PAVING SECTION
PG CO. STD. NO. 300.05 NTS



LIGHT DUTY ASPHALT PAVING SECTION
PG CO. STD. NO. 100.10 NTS



HEAVY DUTY ASPHALT PAVING SECTION
PG CO. STD. NO. 100.01 NTS

PAVING SECTIONS
PAVING SECTIONS SUBJECT TO REVIEW AND/OR REVISION BY GEOTECHNICAL ENGINEER

SUBTITLE 4, DIVISION 3 CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN CONFORMS TO THE REQUIREMENTS OF SUBTITLE 4, DIVISION 3 OF THE PRINCE GEORGE'S COUNTY BUILDING CODE AND THAT I HAVE INSPECTED THIS SITE AND THAT DRAINAGE ONTO THIS SITE FROM PROPERTIES, AND FROM THIS SITE ONTO OTHER DOWNGRADE PROPERTIES, HAVE BEEN ADDRESSED IN SUBSTANTIAL ACCORDANCE WITH APPLICABLE CODES.

CALL MISS UTILITY
1-800-257-7777
48 hrs, Before Excavation

OWNER/APPLICANT
CHAMBERLAIN CONTRACTORS, INC.
162 LAFAYETTE AVENUE
LAUREL, MARYLAND 20707
ATTN: HAROLD GREEN
(866)670-1234

SITE AND LANDSCAPE PLAN
FOR
GLOBAL RESOURCE RECYCLERS
AT
FORESTVILLE CENTER
LOTS 13 & 14
SPAULDING DISTRICT (No. 6)
PRINCE GEORGE'S COUNTY, MARYLAND

GRAPHIC SCALE 1"= 50'
0 50 100 150

82

WSSC 200' SHEET SERIES 204 SE 7 & 8   ADC MAP BK LOCATION 19 E & F-10

DATE	DESCRIPTION	BY
	REVISIONS	

11721 WOODMORE ROAD, SUITE 200
MITCHELLVILLE, MARYLAND 20721
BEN DYER ASSOCIATES, INC
Engineers / Surveyors / Planners
TELEPHONE (301) 430-2000

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DRAWN BY	DESIGNED BY	CHECKED BY	RECORD NO.
GK	GS	XXX	J-75009
SCALE: AS SHOWN			DRWG. NO.
DATE: MARCH 2010			6.020-2

J:\LD7-PROJ\75009-LD7\SHEETS\SP-1.dwg, 10/13/2021 4:00:49 PM, brisha

MARYLAND DEPARTMENT OF THE ENVIRONMENT

AIR AND RADIATION ADMINISTRATION
APPLICATION FOR A PERMIT TO CONSTRUCT

SUPPLEMENT TO
DOCKET #05-22

COMPANY: Allan Myers MD, Inc. – Capital Asphalt Plant

LOCATION: 2600 Marble Court, Forestville, MD 20747

APPLICATION: Installation of one (1) portable concrete and recycled asphalt pavement crushing and screening plant.

ITEM	DESCRIPTION
1	Notice of Tentative Determination, Opportunity to Request a Public Hearing, and Opportunity to Submit Written Comments
2	Fact Sheet and Tentative Determination
3	Draft Permit to Construct and Conditions
4	Supplemental Information
5	Privilege Log – Not Applicable

MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION

NOTICE OF TENTATIVE DETERMINATION, OPPORTUNITY TO REQUEST A PUBLIC HEARING, AND OPPORTUNITY TO SUBMIT WRITTEN COMMENTS

FIRST NOTICE

The Department of the Environment, Air and Radiation Administration (ARA) has completed its review of an application for a Permit to Construct submitted by Allan Myers Md, Inc. on February 10, 2022 for installation of one (1) portable concrete and recycled asphalt pavement crushing and screening plant. The proposed installation will be located at 2600 Marble Court, Forestville, MD 20747.

Pursuant to Section 1-604, of the Environment Article, Annotated Code of Maryland, the Department has made a tentative determination that the Permit to Construct can be issued and is now ready to receive public comment on the application.

Copies of the Department's tentative determination, the application, the draft permit to construct with conditions, and other supporting documents are available for public inspection on the Department's website. Look for Docket #05-22 at the following link:

https://mde.maryland.gov/programs/Permits/AirManagementPermits/Pages/index.aspx

Interested persons may request a public hearing and/or submit written comments on the tentative determination. Requests for a public hearing must be submitted in writing and must be received by the Department no later than 20 days from the date of this notice. Written comments must be received by the Department no later than 30 days from the date of this notice.

Interested persons may request an extension to the public comment period. The extension request must be submitted in writing and must be received by the Department no later than 30 days from the date of this notice or within 5 days after the hearing (if a hearing is requested), whichever is later. The public comment period may only be extended one time for a 60-day period.

All requests for a public hearing, requests for an extension to the public comment period, and all written comments should be emailed to Ms. Shannon Heafey at shannon.heafey@maryland.gov.

Further information may be obtained by contacting Ms. Shannon Heafey by email at shannon.heafey@maryland.gov or by phone at (410) 537-4433.

Christopher R. Hoagland, Director
Air and Radiation Administration

MARYLAND DEPARTMENT OF ENVIRONMENT
AIR AND RADIATION ADMINISTRATION

FACT SHEET AND TENTATIVE DETERMINATION
ALLAN MYERS MD, INC. – CAPITAL ASPHALT PLANT
GLOBAL RESOURCE RECYCLERS

PROPOSED INSTALLATION OF ONE (1) PORTABLE CONCRETE AND RECYCLED ASPHALT PAVEMENT (RAP) CRUSHING AND SCREENING PLANT

I. INTRODUCTION

The Maryland Department of the Environment (the "Department") received an application from Allan Myers MD, Inc. – Capital Asphalt Plant (Allan Myers) on February 10, 2022 for a Permit to Construct for one (1) portable concrete and recycled asphalt pavement (RAP) crushing and screening plant. The proposed installation will be located at the Global Resource Recyclers facility at 2600 Marble Court, Forestville, MD 20747.

A notice was placed in The Prince George's Post on March 17, 2022 and March 24, 2022 announcing an opportunity to request an informational meeting to discuss the application for a Permit to Construct. An informational meeting was not requested.

As required by law, all public notices were also provided to elected officials in all State, county, and municipality legislative districts located within a one mile radius of the facility's property boundary.

The Department has reviewed the application and has made a tentative determination that the proposed installation is expected to comply with all applicable air quality regulations. A notice will be published to provide the public with opportunities to request a public hearing and to comment on the application, the Department's tentative determination, the draft permit conditions, and other supporting documents. The Department will not schedule a public hearing unless a legitimate request is received.

If the Department does not receive any comments that are adverse to the tentative determination, the tentative determination will automatically become a final determination. If adverse comments are received, the Department will review the comments, and will then make a final determination with regard to issuance or denial of the permit. A notice of final determination will be published in a newspaper of general circulation in the affected area. The final determination may be subject to judicial review pursuant to Section 1-601 of the Environment Article, Annotated Code of Maryland.

II. CURRENT STATUS AND PROPOSED INSTALLATION

A. Current Status

Allan Myers MD, Inc. – Capital Asphalt Plant (Allan Myers) at Global Resource Recyclers (GRR) currently does not operate any equipment or processes requiring air quality permits at the proposed location.

B. Proposed Installation

Allan Myers MD, Inc. – Capital Asphalt Plant at Global Resource Recyclers is proposing to install one (1) portable concrete and recycled asphalt pavement (RAP) crushing and screening plant, equipped with wet suppression systems and consisting of one (1) 353 ton per hour (tph) McCloskey crusher powered by one (1) 360 horsepower (hp) Tier 4 diesel engine, one (1) McCloskey screen powered by one (1) 127 hp Tier 4 diesel engine, and two (2) McCloskey conveyors each powered by one (1) 49 hp Tier 4 diesel engine. The proposed installation will be equipped with wet suppression systems to control fugitive dust. The permit will allow Allan Myers MD, Inc. to install and operate subsequent, equivalent replacement equipment as needed.

A second company, Global Resource Recyclers, plans to lease the equipment at the site to Allan Myers. Global Resource Recyclers will obtain a separate permit to construct allowing them to operate the same equipment at their facility. As part of the permit conditions, only one (1) of the companies (GRR or Allan Myers) will be allowed to operate the crushing and screening equipment at the site at any one time.

III. APPLICABLE REGULATIONS

The proposed installation is subject to all applicable Federal and State air quality control regulations, including, but not limited to the following:

(a) All applicable terms, provisions, emissions standards, testing, monitoring, record keeping, and reporting requirements included in federal New Source Performance Standards (NSPS) promulgated under 40 CFR 60, Subpart A (General Provisions) and Subpart OOO for Nonmetallic Mineral Processing Plants.

(b) COMAR 26.11.02.19C & D, which require that the Permittee submit to the Department annual certifications of emissions, and that the Permittee maintain sufficient records to support the emissions information presented in the submittals.

(c) COMAR 26.11.06.03C and D, which requires that the Permittee take reasonable precautions to prevent particulate matter from unconfined sources and materials handling and construction operations from becoming airborne.

(d) COMAR 26.11.06.08 and 26.11.06.09, which generally prohibit the discharge of emissions beyond the property line in such a manner that a nuisance or air pollution is created.

(e) COMAR 26.11.09.05E, which limits visible emissions from the diesel engines to 10% and 40% opacity during idle and operating modes, respectively. Exceptions to these opacity limits are as follows:

(i) The 10% opacity limit during idle mode does not apply for a period of 2 consecutive minutes after a period of idling of 15 minutes for the purpose of clearing the exhaust system;

(ii) The opacity limit during idle mode does not apply to emissions resulting directly from a cold engine start-up and warm-up for the following maximum periods:

(A) engines that are idling continuously when not in service: 30 minutes; and

(B) all other engines: 15 minutes.

(iii) The 10% and 40% opacity limits do not apply while maintenance, repair, or testing is being performed by qualified mechanics.

(f) COMAR 26.11.09.07A(2), which limits the sulfur content of distillate fuel oils to not more than 0.3 percent by weight.

(g) COMAR 26.11.15.05, which requires that the Permittee implement "Best Available Control Technology for Toxics" (T – BACT) to control emissions of toxic air pollutants.

(h) COMAR 26.11.15.06, which prohibits the discharge of toxic air pollutants to the extent that such emissions will unreasonably endanger human health.

IV. GENERAL AIR QUALITY

The U.S. Environmental Protection Agency (EPA) has established primary and secondary National Ambient Air Quality Standards (NAAQS) for six (6) criteria pollutants, i.e., sulfur dioxide, particulate matter, carbon monoxide, nitrogen dioxide, ozone, and lead. The primary standards were established to protect public health, and the secondary standards were developed to protect against non-health effects such as damage to property and vegetation.

The Department utilizes a statewide air monitoring network, operated in accordance with EPA guidelines, to measure the concentrations of criteria pollutants in Maryland's ambient air. The measurements are used to project statewide ambient air quality, and currently indicate that Prince George's County complies with the NAAQS for carbon monoxide, particulate matter, nitrogen dioxide, and lead.

Ground level ozone continues to present a problem for the entire Washington metropolitan area, which is classified as a non-attainment area for ozone. The primary contributors to the formation of ozone are emissions of oxides of nitrogen, primarily from combustion equipment, and emissions of Volatile Organic Compounds (VOC) such as paint solvents and gasoline vapors. Prince George's County is included in the non-attainment area for ozone.

With regard to toxic air pollutants (TAPs), screening levels (i.e., acceptable ambient concentrations for toxic air pollutants) are generally established at 1/100 of allowed worker exposure levels (TLVs)[1]. The Department has also developed additional screening levels for carcinogenic compounds. The additional screening levels are established such that continuous exposure to the subject TAP at the screening level for a period of 70 years is expected to cause an increase in lifetime cancer risk of no more than 1 in 100,000.

V. COMPLIANCE DEMONSTRATION AND ANALYSIS

The proposed installation must comply with all State imposed emissions limitations and screening levels, as well as the NAAQS. The Department has conducted an engineering and air quality review of the application. The emissions were projected based on U.S. EPA emission factors for crushing and screening plants and U.S. EPA emissions factors for diesel engines. The conservative U.S. EPA's SCREEN3 model was also used to project the maximum ground level concentrations from the proposed facility, which were then compared to the screening levels and the NAAQS.

A. Estimated Emissions - The maximum emissions of air pollutants of concern from the proposed installation are listed in Table I.

B. Compliance with National Ambient Air Quality Standards - The maximum ground level concentrations for nitrogen dioxide, sulfur dioxide, carbon monoxide, and particulate matter based on the emissions from the proposed installation are listed in column 2 of Table II. The combined impact of the projected contribution from the proposed installation and the ambient background concentration for each pollutant shown in column 3 of Table II is less than the NAAQS for each pollutant shown in column 4.

C. Compliance with Air Toxics Regulations – The toxic air pollutants of concern that would be emitted from this installation is listed in column 1 of Table III. The predicted maximum off-site ambient concentration of crystalline silica is shown in column 4 of Table III, and in each case the maximum concentration is less than the corresponding screening level for crystalline silica shown in column 2.

[1] TLVs are threshold limit values (exposure limits) established for toxic materials by the American Conference of Governmental Industrial Hygienists (ACGIH). Some TLVs are established for short-term exposure (TLV – STEL), and some are established for longer-term exposure (TLV – TWA), where TWA is an acronym for time-weight average.

VI. TENTATIVE DETERMINATION

Based on the above information, the Department has concluded that the proposed installation will comply with all applicable Federal and State air quality control requirements. In accordance with the Administrative Procedure Act, Department has made a tentative determination to issue the Permit to Construct.

Enclosed with the tentative determination is a copy of the draft Permit to Construct.

TABLE I
PROJECTED MAXIMUM EMISSIONS FROM THE PROPOSED INSTALLATION

POLLUTANT	PROJECTED MAXIMUM EMISSIONS FROM PROPOSED INSTALLATION	
	(lbs/day) at 10 hrs/day	(tons/year)
Nitrogen Dioxide (NO_2)	3.87	0.15
Sulfur Dioxide (SO_2)	11.99	0.48
Carbon Monoxide (CO)	39.85	1.59
Volatile Organic Compounds (VOC)	1.81	0.07
Particulate Matter (PM_{10})	0.21	0.44

TABLE II
PROJECTED IMPACT OF EMISSIONS OF CRITERIA POLLUTANTS FROM THE PROPOSED INSTALLATION ON AMBIENT AIR QUALITY

POLLUTANTS	**MAXIMUM OFF-SITE GROUND LEVEL CONCENTRATIONS CAUSED BY EMISSIONS FROM PROPOSED PROCESS ($\mu g/m^3$)**	**BACKGROUND AMBIENT AIR CONCENTRATIONS ($\mu g/m^3$)***	**NATIONAL AMBIENT AIR QUALITY STANDARDS (NAAQS) ($\mu g/m^3$)**
Nitrogen Dioxide (NO_2)	annual avg.→ 2.0	annual avg.→ 11.80	annual avg.→ 100
Carbon Monoxide (CO)	8-hour max→ 185.1 1-hour max → 264.5	8-hr max.→ 802 1-hr max.→ 1260	8-hr max.→ 10,000 1-hr max.→ 40,000
Sulfur Dioxide (SO_2)	24-hour max. → 31.8 annual avg. → 6.4	24-hour max.→ 2.88 annual avg.→0.21	24-hour max.→ 366 annual avg.→ 78.5
Particulate Matter (PM_{10})	24-hr max → 77.1	24-hr max.→ 32	24-hr max.→ 150

*Background concentrations were obtained from Maryland air monitoring stations as follows:

NO_2, CO, PM_{10} and SO_2 → HU-Beltsville Monitoring Station in Prince George's County

TABLE III
PREDICTED MAXIMUM OFF-SITE AMBIENT CONCENTRATIONS FOR TOXIC AIR POLLUTANTS EMITTED FROM THE PROPOSED INSTALLATION

TOXIC AIR POLLUTANTS	SCREENING LEVELS ($\mu g/m^3$)	PROJECTED WORST-CASE FACILITY-WIDE EMISSIONS (lbs/hr)	PREDICTED MAXIMUM OFF-SITE GROUND LEVEL CONCENTRATIONS ($\mu g/m^3$)
Crystalline Silica	1-hour→ None 8-hour→0.25 Annual→ None	0.00065	1-hour→ None 8-hour→ 0.080 Annual→ None

The values represent maximum facility-wide emissions of toxic air pollutants during any 1-hour period of facility operation.

The values are based on worst-case emissions from the proposed facility and were predicted by EPA's SCREEN3 model, which provides conservative estimations concerning the impact of pollutants on ambient air quality.

DRAFT PERMIT

Larry Hogan
Governor

Horacio Tablada
Secretary

Air and Radiation Administration

1800 Washington Boulevard, Suite 720
Baltimore, MD 21230

☒ Construction Permit ☐ Operating Permit

PREMISES NO.:
033-2947

DATE ISSUED:
[Date of Issuance]

PERMIT FEE:
$2,000.00 (PAID)

EXPIRATION DATE:
To Be Paid in Accordance with COMAR 26.11.02.04B

LEGAL OWNER & ADDRESS
Allan Myers MD, Inc. – Capital Asphalt Plant
638 Lancaster Ave
Malvern, PA 19355
Attention: Mr. David Schnackenberg,
Environmental Manager

SITE
Global Resource Recyclers
2600 Marble Court
Forestville, MD 20747
AI # 174376

SOURCE DESCRIPTION

This permit authorizes the installation of one (1) concrete and recycled asphalt pavement (RAP) crushing and screening plant.

This permit to construct also serves as a temporary permit to operate for a period of up to 180 days after initiating operation of the plant authorized by this permit.

This source is subject to the conditions described on the attached pages.

Program Manager

Director, Air and Radiation Administration

INDEX

This permit-to-construct is issued to cover the following registered installation:

ARA Registration Number	Description	Date of Installation
033-2947-6-1640	One (1) portable concrete and recycled asphalt pavement (RAP) crushing and screening plant, equipped with wet suppression systems and consisting of: • One (1) 353 ton per hour (tph) crusher powered by one (1) 360 horsepower (hp) Tier 4 diesel engine; • One (1) 500 tph screen powered by one (1) 127 hp Tier 4 diesel engine; and • Two (2) 300 tph conveyors each powered by one (1) 49 hp Tier 4 diesel engine.	2022 Subsequent equivalent equipment may be installed to replace existing equipment, as needed.

Part A – General Provisions

(1) The following Air and Radiation Administration (ARA) permit-to-construct applications and supplemental information are incorporated into this permit by reference:

(a) Application for Processing or Manufacturing Equipment (Form 5) received at the Department on February 10, 2022.

(b) Application for Gas Cleaning or Emission Control Equipment (Form 6) received at the Department on February 10, 2022.

(c) Toxic Air Pollutant (TAP) Emissions Summary and Compliance Demonstration (Form 5T) received at the Department on February 10, 2022.

(d) Emission Point Data (Form 5EP) received at the Department on February 10, 2022.

(e) Supplemental Information for vendor specifications, emissions calculations, and zoning approval received at the Department on February 10, 2022.

If there are any conflicts between representations in this permit and representations in the applications, the representations in the permit shall govern. Estimates of dimensions, volumes, emissions rates, operating rates, feed rates and hours of operation included in the applications do not constitute enforceable numeric limits beyond the extent necessary for compliance with applicable requirements.

(2) Upon presentation of credentials, representatives of the Maryland Department of the Environment ("MDE" or the "Department") and the Prince George's County Health Department shall at any reasonable time be granted, without delay and without prior notification, access to the Permittee's property and permitted to:

(a) inspect any construction authorized by this permit;

(b) sample, as necessary to determine compliance with requirements of this permit, any materials stored or processed on-site, any waste materials, and any discharge into the environment;

(c) inspect any monitoring equipment required by this permit;

(d) review and copy any records, including all documents required to be maintained by this permit, relevant to a determination of compliance with requirements of this permit; and

(e) obtain any photographic documentation or evidence necessary to determine compliance with the requirements of this permit.

(3) The Permittee shall notify the Department prior to increasing quantities and/or changing the types of any materials referenced in the application or limited by this permit. If the Department determines that such increases or changes constitute a modification, the Permittee shall obtain a permit-to-construct prior to implementing the modification.

(4) Nothing in this permit authorizes the violation of any rule or regulation or the creation of a nuisance or air pollution.

(5) If any provision of this permit is declared by proper authority to be invalid, the remaining provisions of the permit shall remain in effect.

(6) Subsequent to issuance of this permit, the Department may impose additional and modified requirements that are incorporated into a State permit-to-operate issued pursuant to COMAR 26.11.02.13.

Part B – Applicable Regulations

(1) This source is subject to all applicable federal air pollution control requirements including, but not limited to, the following:

All applicable terms, provisions, emissions standards, testing, monitoring, record keeping, and reporting requirements included in federal New Source Performance Standards (NSPS) promulgated under 40 CFR 60, Subparts A and OOO for Nonmetallic Mineral Processing Plants.

All notifications required under 40 CFR 60, Subparts A and OOO shall be submitted to both of the following:

The Administrator
Compliance Program
Maryland Department of the Environment
Air and Radiation Administration
1800 Washington Boulevard, STE 715
Baltimore MD 21230

and

United States Environmental Protection Agency
Region III, Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, PA 19103-2852

(2) This source is subject to all applicable federally enforceable State air pollution control requirements including, but not limited to, the following regulations:

(a) COMAR 26.11.01.07C, which requires that the Permittee report to the Department occurrences of excess emissions.

(b) COMAR 26.11.02.04B, which states that a permit to construct or an approval expires if, as determined by the Department:

(i) Substantial construction or modification is not commenced within 18 months after the date of issuance of the permit or approval, unless the Department specifies a longer period in the permit or approval;

(ii) Construction or modification is substantially discontinued for a period of 18 months after the construction or modification has commenced; or

(iii) The source for which the permit or approval was issued is not completed within a reasonable period after the date of issuance of the permit or approval.

(c) COMAR 26.11.02.09A, which requires that the Permittee obtain a permit-to-construct if an installation is to be modified in a manner that would cause changes in the quantity, nature, or characteristics of emissions from the installation as referenced in this permit.

(d) COMAR 26.11.06.03C and D, which requires that the Permittee take reasonable precautions to prevent particulate matter from unconfined sources and materials handling and construction operations from becoming airborne.

(e) COMAR 26.11.06.12, which states that a person may not construct, modify, or operate, or cause to be constructed, modified, or operated, a New Source Performance Standard (NSPS) source in a manner which results or will result in violation of the provisions of 40 CFR, Part 60.

(f) COMAR 26.11.09.05E, which limits visible emissions from the diesel engines to 10% and 40% opacity during idle and operating modes, respectively. Exceptions to these opacity limits are as follows:

(i) The 10% opacity limit during idle mode does not apply for a period of 2 consecutive minutes after a period of idling of 15 minutes for the purpose of clearing the exhaust system;

(ii) The 10% opacity limit during idle mode does not apply to emissions resulting directly from a cold engine start-up and warm-up for the following maximum periods:

(A) engines that are idling continuously when not in service: 30 minutes; and

(B) all other engines: 15 minutes.

(iii) The 10% and 40% opacity limits do not apply while maintenance, repair, or testing is being performed by qualified mechanics.

(g) COMAR 26.11.09.07A(2), which limits the sulfur content of distillate fuel oils to not more than 0.3 percent by weight.

(3) This source is subject to all applicable State-only enforceable air pollution control requirements including, but not limited to, the following regulations:

(a) COMAR 26.11.02.13A(16), which requires that the Permittee obtain from the Department, and maintain and renew as required, a valid State permit-to-operate.

(b) COMAR 26.11.02.19C & D, which require that the Permittee submit to the Department annual certifications of emissions, and that the Permittee maintain sufficient records to support the emissions information presented in such submittals.

(c) COMAR 26.11.06.08 and 26.11.06.09, which generally prohibit the discharge of emissions beyond the property line in such a manner that a nuisance or air pollution is created.

(d) COMAR 26.11.15.05, which requires that the Permittee implement “Best Available Control Technology for Toxics” (T – BACT) to control emissions of toxic air pollutants.

(e) COMAR 26.11.15.06, which prohibits the discharge of toxic air pollutants to the extent that such emissions would unreasonably endanger human health.

Part C – Construction Conditions

(1) Except as otherwise provided in this part, the portable crushing and screening plant shall be constructed in accordance with specifications included in the incorporated applications.

(2) This permit authorizes the installation of a portable crushing and screening plant and subsequent, equivalent replacement crushing and screening equipment as needed.

(3) The Permittee shall equip the portable crushing and screening plant with wet suppression systems to comply with the particulate matter handling requirements of COMAR 26.11.06.03C and D and 40 CFR 60, Subpart OOO.

Part D – Operating Conditions

(1) Except as otherwise provided in this part, all equipment associated with the portable crushing and screening plant covered by this permit shall be operated in accordance with specifications included in the application and any operating procedures recommended by equipment vendors unless the Permittee obtains from the Department written authorization for alternative operating procedures.

(2) Only one (1) portable crushing and screening plant shall be operated on this property at any one time. This includes ARA Premises Nos. 033-2066 and 033-2947.

(3) The Permittee shall only process concrete and recycled asphalt pavement in the portable crushing and screening plant unless the Permittee obtains an approval from the Department to process other materials.

(4) Wet suppression systems shall be used as needed to comply with the fugitive particulate matter requirements of COMAR 26.11.06.03C and D, and the following opacity limits specified in 40 CFR, Part 60, Subpart OOO for affected facilities at nonmetallic mineral processing plants constructed, modified, or reconstructed on or after April 22, 2008:

(a) No more than 12 percent opacity from each crusher; and

(b) No more than 7 percent opacity from all other fugitive sources.

(5) The Permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression systems for affected facilities at nonmetallic mineral processing plants constructed, modified, or reconstructed on or after April 22, 2008. The Permittee must initiate corrective action within 24 hours and complete corrective action as expediently as practical if the Permittee finds that water is not flowing properly during an inspection of the water spray nozzles. **[Reference: 40 CFR §60.674(b)]**

(6) The engines associated with the portable crushing and screening plant shall be nonroad engines, as defined in 40 CFR §1068.3, unless the Permittee complies with the stationary nonroad engine requirements of 40 CFR 60, Subpart IIII and 40 CFR 63, Subpart ZZZZ, as applicable, for each engine.

(7) The engines associated with the portable crushing and screening plant shall only burn diesel fuel with a maximum sulfur content of 0.3 percent by weight.

(8) Soils contaminated with petroleum-based fuels, other volatile organic compounds, or metals shall not be processed at the facility.

(9) The Permittee shall control fugitive dust on site, including from plant roads and stockpiles, by using water, approved chemical dust suppressants, or combination of both.

Part E – Notifications, Testing and Monitoring

(1) The Permittee shall submit written or electronic notification to the Department of the initial startup date of the portable crushing and screening plant and the initial startup date of each subsequent, equivalent replacement equipment within 15 days after such date. **[40 CFR §60.7(a)(3) and §60.676(i)]**

(2) Not later than 180 days after the initial startup of the portable crushing and screening plant and each subsequent, equivalent replacement equipment (if required), the Permittee shall demonstrate compliance with all applicable opacity standards. **[Reference: 40 CFR §60.11(b) and §60.672(b)]**

(3) The Permittee shall use Method 9 of Appendix A-4 to 40 CFR, Part 60 and the procedures in 40 CFR §60.11, with the following additions:

(a) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).

(b) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9 of Appendix A-3 of this part, Section 2.1) must be followed.

(c) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.

[Reference: 40 CFR §60.675(c)(1)]

(4) The duration of the Method 9 (40 CFR, Part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable opacity standards must be based on the average of the five 6-minute averages.
[Reference: 40 CFR §60.675(c)(3)]

(5) The Permittee shall submit notification of the intended date of the required Method 9 observations to the Department at least 30 days prior to that date.

(6) Within 45 days following the required Method 9 observations, the Permittee shall submit the results to the Department.

Part F – Record Keeping and Reporting

(1) The Permittee shall maintain for at least five (5) years, and shall make available to the Department upon request, records of the following information:

(a) The amount of each material (concrete or RAP) processed in the portable crushing and screening plant in tons per month;

(b) A log identifying each piece of equipment operated each day, including a description of the equipment, the date of operation, and the hours of operation;

(c) The amount of diesel fuel burned in the diesel engines each month;

(d) All opacity observation test results for the initial plant and each subsequent, equivalent replacement equipment;

(e) Copies of all notifications of initial start-up of the crushing and screening plant and each subsequent, equivalent replacement equipment;

(f) Equipment information or vendor literature for all initial equipment associated with the portable plant and each subsequent, equivalent replacement equipment;

(g) A log of each periodic inspection of the wet suppression systems associated with the crushing and screening plant including the dates and any corrective actions taken; **[Reference: 40 CFR §60.674(b) and §60.674(b) and §60.676(b)(1)]**

(h) A copy of the notification of the initial startup date of the crushing and screening plant; and

(i) Equipment information or vendor literature for all equipment associated with the crushing and screening plant.

(2) The Permittee shall maintain at the facility for at least five (5) years, and shall make available to the Department upon request, records necessary to support annual certifications of emissions and demonstrations of compliance for toxic air pollutants. Such records shall include, if applicable, the following:

(a) Mass emissions rates for each regulated pollutant, and the total mass emissions rate for all regulated pollutants for each registered source of emissions;

(b) Accounts of the methods and assumptions used to quantify emissions;

(c) All operating data, including operating schedules and production data, that were used in determinations of emissions;

(d) Amounts, types, and analyses of all fuels used;

(e) Any records, the maintenance of which is required by this permit or by State or federal regulations, that pertain to the operation and maintenance of continuous emissions monitors, including:

(i) all emissions data generated by such monitors;

(ii) all monitor calibration data;

(iii) information regarding the percentage of time each monitor was available for service; and

(iv) information concerning any equipment malfunctions.

(f) Information concerning operation, maintenance, and performance of air pollution control equipment and compliance monitoring equipment, including:

(i) identifications and descriptions of all such equipment;

(ii) operating schedules for each item of such equipment;

(iii) accounts of any significant maintenance performed;

(iv) accounts of all malfunctions and outages; and

(v) accounts of any episodes of reduced efficiency.

(g) Limitations on source operation or any work practice standards that significantly affect emissions; and

(h) Other relevant information as required by the Department.

(3) The Permittee shall submit to the Department by April 1 of each year a certification of emissions for the previous calendar year. The certifications shall be prepared in accordance with requirements, as applicable, adopted under COMAR 26.11.01.05 – 1 and COMAR 26.11.02.19D.

(a) Certifications of emissions shall be submitted on forms obtained from the Department.

(b) A certification of emissions shall include mass emissions rates for each regulated pollutant, and the total mass emissions rate for all regulated pollutants for each of the facility's registered sources of emissions.

(c) The person responsible for a certification of emissions shall certify the submittal to the Department in the following manner:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(4) The Permittee shall submit to the Department by April 1 of each year a written certification of the results of an analysis of emissions of toxic air pollutants from the Permittee's facility during the previous calendar year. Such analysis shall include either:

(a) A statement that previously submitted compliance demonstrations for emissions of toxic air pollutants remain valid; or

(b) A revised compliance demonstration, developed in accordance with requirements included under COMAR 26.11.15 & 16, that accounts for changes in operations, analytical methods, emissions determinations, or other factors that have invalidated previous demonstrations.

(5) The Permittee shall report, in accordance with requirements under COMAR 26.11.01.07, occurrences of excess emissions to the Compliance Program of the Air and Radiation Administration.

Part G – Temporary Permit-to-Operate Conditions

(1) This permit-to-construct shall also serve as a temporary permit-to-operate that confers upon the Permittee authorization to operate the crushing and screening plant for a period of up to 180 days after initiating operation of the crushing and screening plant.

(2) The Permittee shall provide the Department with written or electronic notification of the date on which operation of the crushing and screening plant is initiated. Such notification shall be provided within 15 business days of the date to be reported.

(3) During the effective period of the temporary permit-to-operate the Permittee shall operate the new installation as required by the applicable terms and conditions of this permit-to-construct, and in accordance with operating procedures and recommendations provided by equipment vendors.

(4) The Permittee shall submit to the Department an application for a State permit-to-operate no later than 60 days prior to expiration of the effective period of the temporary permit-to-operate.

MARYLAND DEPARTMENT OF THE ENVIRONMENT

AIR AND RADIATION ADMINISTRATION

SUPPLEMENTAL INFORMATION REFERENCES

The Code of Maryland Regulations (COMAR) is searchable by COMAR citation at the following Division of State Documents website:
http://www.dsd.state.md.us/COMAR/ComarHome.html

The Code of Federal Regulations (CFR), including New Source Performance Standards (NSPS) at 40 CFR, Part 60 and National Emission Standards for Hazardous Air Pollutants (NESHAP) at 40 CFR, Parts 61 and 63, is searchable by CFR citation at the following U.S. Government Publishing Office website:
http://www.ecfr.gov

Information on National Ambient Air Quality Standards (NAAQS) is located at the following U.S. Environmental Protection Agency (EPA) website:
https://www.epa.gov/criteria-air-pollutants/naaqs-table

Information on Maryland's Ambient Air Monitoring Program is located at the following Maryland Department of the Environment website:
http://mde.maryland.gov/programs/Air/AirQualityMonitoring/Pages/index.aspx

Information on the U.S. EPA's Screen3 computer model and other EPA-approved air dispersion models is located at the following U.S. EPA website:
http://www.epa.gov/scram001/dispersion_screening.htm

Information on the U.S. EPA TANKS Emission Estimation Software is located at the following U.S. EPA website:
http://www.epa.gov/ttn/chief/software/tanks/index.html

Information on the U.S. EPA Emission Factors and AP-42 is located at the following U.S. EPA website:
https://www.epa.gov/air-emissions-factors-and-quantification/ap-42-compilation-air-emission-factors