APPROVED DOCUMENT
Division of Waste Management
Solid Waste Section
Approved August 15, 2016
By T. Gallagher
Facility ID 1118-COMPOST-2016
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Doc ID 26617 (applic)

LARGE TYPE III COMPOST FACILITY PERMIT APPLICATION

DANNY'S DUMPSTER COMPOST FACILITY
ASHEVILLE,
BUNCOMBE COUNTY, NORTH CAROLINA

Prepared For:

Danny's Dumpster
60 Huckleberry Cove
Leicester, North Carolina 28748

Prepared By:

Quible & Associates, P.C.
Geology * Planning * Environmental Sciences & Restoration * Engineering * Surveying

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Project Number P15103
January 28, 2016

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1.0 General Information

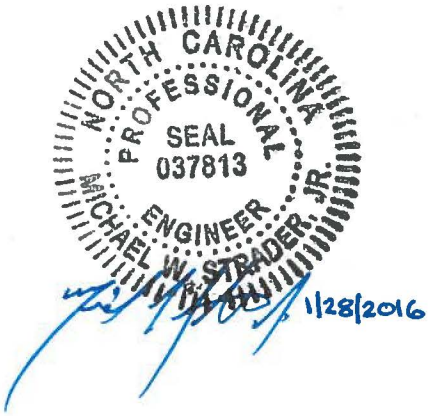
Facility Information: Danny's Dumpster
120 Hardesty Lane, Buncombe County, Asheville, North Carolina 28802
Phone: 828-380-9094
Large Type III Compost Facility
www.dannysdumpster.com
dannysdumspter@gmail.com

Property Owner: City of Asheville
P.O. Box 7148, Buncombe County, Asheville, North Carolina 28802
Phone: 828-259-5830

NCDEQ Regional Representative:
Martin A. Gallagher
Supervisor, Composting & Land Application Branch
Division of Waste Management
217 West Jones Street, Green Square Office Complex
1646 Mail Service Center, Raleigh, North Carolina 27699
Phone: 919-707-8280
tony.gallagher@ncdenr.gov

Authorized Agent: Quible & Associates, P.C.
Joel Lenk
P.O. Box 87, Buncombe County, Fairview, North Carolina 28730
Phone: 828-280-8375
jlenk@quible.com

Professional Engineer Signature and Seal



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2.0 Siting Requirements

2.1 Facility Location

The Danny's Dumpster composting facility is located at 120 Hardesty Lane (formerly 80 Hardesty Lane), Buncombe County, Asheville, North Carolina. The facility is currently operating under a demonstration permit for a Small Type III Compost Facility. The facility is operating on a small portion of a closed City of Asheville (COA) Construction and Demolition Debris (C&D) Landfill. The composting facility is located approximately eight miles from downtown Asheville, North Carolina. The subject property location is shown on the attached Figure 1 (Site location Map – USGS Topographic Map).

2.2 Property Size

The facility is located on a 33.48 acre parcel owned by the City of Asheville. Danny's Dumpster currently leases the property from the City of Asheville. The subject property is associated with Parcel Identification Number (PIN) 9668-31-9966-00000. The facility only operates on a 5.5 acre portion of the parcel. The subject property is associated with North Carolina General Warranty Deed book 2478, pages 880-882, and the referenced pages are included as Appendix A. A City of Asheville landowner authorization form will be submitted under separate cover.

A copy of the City of Asheville Easements Map across the property is included as Appendix B. A site vicinity map is included as Figure 2 (Site Vicinity Map), which depicts the entire property leased by Danny's Dumpster. Additionally, Figure 2 shows homes, roads, water courses and general topography in the immediate vicinity of the site.

2.3 Conforming with Zoning and Local Laws

The City of Asheville provided conditional zoning approval for the subject property on December 7, 2015. The letter indicates that the subject property is conditionally zoned CZ-Commercial Industrial. The site conditions, map of the property and surrounding zoning designations, and Ordinance No. 4108 are included as Appendix C.

2.4 Compliance with NC Solid Waste Rules Section .1400 Compost Facilities

None of the compost facility or leased land surrounding the compost facility is within a flood plain, according to Compost Rule .1404 (a)(1). A copy of a Flood Insurance Rate Map (FIRM) is included as Appendix D. No wetlands exist on the subject property associated with the compost facility.

The following explains how the site complies with the siting/design requirements of the Compost Rule for the following sections. The buffer requirements apply to the unloading areas, composting and curing areas, mixing/processing areas, and feedstock storage areas. The areas are shown on the attached Figure 3.

- .1404 (a)(2): A minimum 100-foot buffer from the property line to any processing or storage area will be maintained.
- .1404 (a)(3): The minimum 500-foot buffer between any processing or storage areas and residences not owned by the permittee will be maintained.
- .1404 (a)(4): There are no groundwater wells located on or within 100 feet of this site.
- .1404 (a)(5): A 50-foot minimum buffer will be maintained between perennial streams/rivers and compost areas. The Swannanoa River is located approximately 300 feet north of the compost facility.

- .1404 (a)(7): This facility is not located over a closed-out solid waste disposal area. The facility is located on and operating as a beneficial re-use closed COA C&D Landfill.
- .1404 (a)(8): A 25-foot minimum distance will be maintained around the periphery of the processing and storage areas to allow adequate access by firefighting equipment.

On March 14, 2014 Land Resource Management (LRM) conducted a soil investigation at the facility to address requirements of Rule .1404 (a)(10)(B) through (E). LRM evaluated the soils on the property to determine if the area being utilized for composting contains a Seasonal High Water Table (SHWT). Two soil test pits were excavated and evaluated within the composting facility. Based upon the soils observed within the test pits, LRM determined that no SHWT exists within four feet of the surface. The test pits contained different layers of fill material ranging from clay to gravel. The LRM *Report of Findings* is included as Appendix E.

3.0 Design Plan

3.1 Compost Materials

The materials received at the facility consist of food waste and carbon material (leaves and wood chips). Food waste is received from local restaurants, grocery stores, and cafeterias. Carbon materials are supplied by the City of Asheville (leaves) and from various tree trimming companies (wood chips). Additionally, spent beer hops from the local breweries are received at a quantity of five tons per month. The compost facility shall only accept solid waste that it is permitted to receive under Compost Rule .1404 (a)(1).

Food waste is collected and delivered by Danny's Dumpster and transported to the compost facility at a current rate of approximately 35 tons per week. Carbon material is delivered to the facility and stockpiled at a rate of 70 to 80 tons per week. The facility utilizes three 80-cubic yard, forced static aeration bins (Bin(s)) that can hold approximately 45 to 50 tons of food waste. Currently, the facility accepts approximately 35 tons of food waste per week. Based upon this rate, the facility can process approximately 1,820 tons of food waste per year.

3.2 Process Flow Diagram

A process flow diagram is included as Figure 4. The following description of the process flow accompany Figure 4.

1. Carbon storage is located at Area 1 and is made up of leaf material and wood chips.
2. Food waste material arrives at the facility via truck and is placed on the mixing pad (Area 2).
3. Food waste can be weighed at a scale at the Asheville Waste Paper facility prior to entering the facility when necessary but is typically measured by volume. Food waste is placed on the concrete mixing pad upon arrival. Carbon material is added to food waste and mixed in the mixing area with the loader. The material is measured by the cubic yard using the loader equipped with a one cubic yard bucket. The material is mixed at a ratio of 2:1 (carbon: food waste) by volume. The two cubic yards of carbon mix to one cubic yard of food waste yields a carbon to nitrogen (C:N) ratio of 30:1 during composting and a ratio of 9:1 in the Finished Product.
4. Mixed carbon and food waste (Compost Material) is then moved to one of three 80-cubic yard, forced static aeration bins located in Area 3. Each Bin holds approximately 45 to 50 tons of food waste. Once a Bin is full, it is closed and allowed to cure for a minimum of 14 days at a minimum temperature of 40 degrees Celsius (°C) (104 degrees Fahrenheit (°F)). Curing time and temperature within Bins at the Danny's Dumpster Facility exceed North Carolina Department of Environmental Quality (DEQ) requirements as compost typically remains in Bins for three weeks at temperatures that exceed 45°C or 113°F. The three Bin system in place limits the facility to accept approximately 50 tons of food waste per week.
5. The small amount (approximately 100 gallons per week or less) of leachate generated by the forced air Bins is piped to a 1,500 gallon leachate tank located in Area 4. Leachate collected in the tank is pumped and sprayed on top of a full forced air compost bin to allow the moisture to be absorbed and evaporated.
6. When compost material has endured the required time and temperature requirements in a Bin, the material is removed from the Bin with the loader and placed in available space in one of the windrows in Area 5. New material that is added to windrows is covered with at least six inches of carbon material to control residual odor. Compost material is windrowed for a period of approximately six months.

7. When a windrow becomes "full", a new windrow is started. When the windrows are full, the oldest material from the oldest windrow is moved with the loader to the Curing Area (Area 6). New compost material is then windrowed in the newly available space. Compost is mixed and further refined in the Curing Area with the loader.
8. Compost is then transferred from the Curing Area to the Screening Area (Area 7) with the loader where compost is forced through a 3/8-inch diameter tromel screen to create a well sorted compost product.
9. Finally, finished product is moved to the Finished Product area (Area 8) with the loader where it is staged for sale or delivery.

3.3 Compost Process Duration

The food waste and carbon material is mixed and loaded into the forced static aeration composters within 24 hours of arrival at the facility. It remains in the forced static aeration system for approximately three weeks in order to reach the time and temperature requirements of 40°C or 104°F for 14 days, including a minimum of temperature of 55°C or 131°F for three days. The material will then be windrowed for a period of approximately six months before it is moved to the curing area, screened, and moved to the finished product area for distribution.

The temperature is monitored at three locations in each forced static aeration composter (front, middle, back). A 36-inch temperature probe is used to measure temperature within the compost. Temperature is measured and recorded four times per week. The temperature is recorded electronically and kept on file. During the demonstration permit period, it was found that temperatures of 49°C or 120 degrees Fahrenheit (°F) or higher were reached within three days of placement throughout the forced static aeration composter. Within six days of placement, temperatures of 60°C or 140 °F were reached and held throughout the three week period of forced static aeration composting.

All compost material is covered with a six-inch layer of wetted carbon to prepare for extreme weather conditions. The carbon is staged and stored in a location east of the forced static aeration containers (Figures 3 & 4). No significant noise is produced during the composting procedure. The six-inch layer of wetted carbon prevents vectors, air borne particulates, and odors from leaving locations where compost materials are placed. Incoming material has a very high moisture content so any paper product that could blow away are saturated by food waste and remain in the pile. The facility employees do regular litter pickups to make sure nothing is blown offsite.

4.0 Operation Plan

4.1 Operations and Site Security

The owner/operator (Danny Keaton) oversees the logistics of collection and delivery of material that is delivered to the compost facility. The operations manager (Justin Skemp) manages day to day operations at the facility. His duties include receiving, mixing, and loading incoming material, as well as recording temperatures, movement of material through the compost process, and general maintenance of the facility. An operator is on site at all times while the facility is open for public use to ensure compliance with operational requirements, and to control access to the facility. Personnel training is provided to insure that all employees are trained in site specific process, safety, and remedial and corrective action procedures.

The facility will remain in compliance with operational requirements as outlined in Rule .1406. Construction plans and conditions of permit shall be followed; and a copy of the permit, plans, and operational reports shall be maintained on site at all times.

The facility is open Sunday from 6 am to 12 pm and Monday, Tuesday, Thursday, and Friday from 6 am to 6 pm. The facility operates year round with the exception of holidays. Before closing the facility each day, all new food waste material is covered with a six-inch layer of cured or finished compost to ensure odor control.

The site does not allow uncontrolled public access. "No Public Access Signs" are clearly posted at the site entrance and boundaries. A gate is located at the facility entrance that is locked every evening when the facility is closed and when the facility is not open. The access road to the site is of all-weather construction and maintained in good drivable condition.

The equipment used on site is a Caterpillar 259B Skid Steer Loader. The loader is used to mix the carbon and food waste, then load forced static aeration compost containers and turn windrows. Air is forced through compost within the containers by Medo ML 120 air compressors. Compost containers are insulated with 4-inches of spray foam material. An Ex-Trex E7 screener is rented for screening when needed.

4.2 Description of Compost Process

The Danny's Dumpster composting facility uses three specially modified 40-yard roll-off bins as its forced static aeration compost containers. Bins are stored and kept under cover. The locations of the compost components and areas are shown on the attached Figures 3 and 4. The floor of the Bins is designed to force air through the composting mixture. Each of the forced static aeration bins have floor drains at the front and back. The drains are coupled to a watertight pipe that is plumbed to the leachate tank. The tank is pumped as necessary and the liquid leachate is reapplied to carbon material in the containers and absorbed by the dry material and subsequently evaporates. The leachate is pumped onto carbon material in the Bin that is being actively loaded. The leachate conveyance system is inspected on a weekly basis when the leachate tank is checked for volume. If a leak in the leachate conveyance or collection system is detected, the composting components associated with the leak will be shut down and the leak will be immediately repaired. Leachate piping is not under pressure, plumber's putty or similar will be used for temporary repair of any leaks until damaged piping can be cut out and replaced. The design of the Bins allows easy access to leachate piping and collection and most repairs can be made within an hour of leak detection. During repairs a tray of sawdust or carbon

material will be placed under the leak to collect and absorb leachate.
A 2:1 ratio of carbon: food waste is mixed in a concrete mixing area with a loader. This mixture is loaded into the forced static aeration bins using a loader. This loading process continues until the Bin is full. At that time, the door is closed, temperatures are monitored and no more leachate is applied. Another container then begins the same process. When a Bin has gone through the required time and temperature cycle, the material is then unloaded with a loader and windrowed in a curing area. After the proper amount of curing time, the material is screened in a screening area and stored in the finished area. The proper tests are applied at the appropriate times. The finished compost will be delivered offsite and distributed from there to landscapers and individuals. A contingency plan of land applying compost to a local farm (Crowell Farms located at 523 Pond Road in Asheville, North Carolina) is in place.

4.3 Monitoring Procedures

Incoming loads of food waste and wood waste are visually inspected for non-compostable materials, which are removed manually. Any unacceptable waste is collected, stored, and disposed of at the Buncombe County Landfill. Temperatures are monitored in the forced static aeration bins using a 36-inch composting thermometer four times a week. Temperatures meet both the Process to Further Reduce Pathogens (PFRP) and Vector Attraction Reduction (VAR) requirements. Records are kept electronically and transferred to an Excel document.

Compost is tested every six months or for every 20,000 tons of product produced for the parameters specified in 15A NCAC13B.1407 and 13B.1408. Samples are collected with a decontaminated four-inch spade shovel. The sample is then placed in a Ziploc® bag and sent next day air to A&L Great Lakes Laboratories, Inc. in Fort Wayne, Indiana. The samples are analyzed for pathogen and metal content.

4.3.1 Temperature

The temperature of all compost produced shall be monitored sufficiently to ensure that the pathogen reduction criteria is met. The compost process temperature shall be maintained above 40°C or 104°F for 14 days or longer and the average temperature for that time shall be higher than 45°C and the vector attraction reduction requirements in 40 CFR 503.33(b)(4) or (7). During the forced static aeration composting, temperatures in the compost piles shall be maintained at a minimum temperature of 55°C or 131°F for at least three days. Copies of all temperature monitoring logs and compost monitoring analysis results are kept on file. The 2015 temperature records are included as Appendix F.

4.3.2 Odor Management

Nitrogen bearing wastes (wood ships or leaves) shall be incorporated as necessary to minimize odor and the migration of nutrients. A six-inch layer of cured or finished compost is used to cover newer material in the forced static aeration bins, and is also used to cover windrow 1 and windrow 2. In the case of unexpected odors, additional cured or finished compost, as well as carbon material such as wood chips or leaves will be used as additional cover.

Steps taken to minimize vectors around the compost facility will include ensuring no unmixed waste is left out, ensuring no pools of stagnant water are present, and if needed, covering the windrows with a six inch layer of carbon. Odors will be minimized by careful attention to the carbon: nitrogen ratio in the composting recipe and by ensuring adequate porosity in the windrow for air movement. In the case of unusual odor conditions, a six-inch layer of carbon will be placed over the windrows for absorption of

odors.

4.3.3 Site Maintenance

In the event of equipment breakdown, Advanced Composting Technologies is available to repair the forced static aeration compost bins within 48 hours; and loader rentals are available in case a backup is needed. Non-conforming waste will be manually removed and land-filled. Spills are minimized by a controlled leachate capture system. Fire extinguishers at the compost facility will be used in the event of equipment related fires. In the event of fire, the local fire department will be called (828-259-5636).

Adequate erosion control measures shall be practiced to prevent both onsite and offsite erosion and to control the movement of soil or contaminants from the site. Surface water shall be diverted from the operational, compost curing, and storage areas. A three-foot berm surrounds the entire operating area.

Leachate shall be contained onsite or treated to meet the standards of the offsite disposal method. Throughout the demonstration permit period (two years) the method of composting used at the facility has demonstrated not to produce volumes of leachate that require offsite disposal.

There will be no open burning of solid waste. Equipment shall be provided to control accidental fires and arrangements made with the local fire protection agency to immediately provide fire-fighting services when needed.

4.3.4 Finished Product

The finished compost shall meet the classification and distribution requirements outlined in Rule 1407. The quality of the final product shall determine the allowable uses as outlined in Rule 1407. The final product shall be approved by the Solid Waste Section as outlined in Rule 1407(c). Non-compostable waste and unacceptable compost shall be disposed in a solid waste management facility permitted to receive the particular type of waste under 15A NCAC 13B.

Finished product is Grade "A" compost, recommended as a soil amendment to gardeners and landscapers. The finished product can be applied as needed and no restrictions in volumes of usage apply to the product. The amount of compost stored at the facility shall not exceed the designed storage capacity of 3,300 cubic yards. Currently, the facility contains three windrows that are 250 feet long by 15 feet wide and 8 feet high, which is within the acceptable limits of storage capacity.

The finished compost is sold by delivery only. The facility delivers to residents or local mulch yards through bulk orders. No public traffic is allowed on to the property per the lease agreement with the City of Asheville.

5.0 Stormwater Discharge and Sedimentation and Erosion Control Plan

5.1 Stormwater Discharge

The Danny's Dumpster compost facility uses a forced air forced static aeration system that is covered by a metal roof during the first two to three weeks of composting. Material is not applied on the ground until it has gone through the required time and temperature required by the state. Mr. Ken Pickle with the NC DEQ Division of Water Resources Stormwater Permitting (919-807-6376) visited the site and confirmed that a stormwater permit was not required. Additionally, Ms. Darlene Kucken of the Division of Energy, Mineral, and Land Resources (DEMLR) Asheville Regional Office (828-296-4500) visited the site. She stated "I do not find the need for a stormwater permit for this site. The site has unbroken perimeter berms and no stormwater settling basins; rainfall on the site infiltrates. There are no outfalls from this site."

5.2 Sedimentation and Erosion Control Plan

The site contains an unbroken three-foot berm around the operating area and a silt fence surrounds the entire facility. The property is graded to prevent ponding. There are no known modifications proposed for the site.

In the event that land disturbance occurs, disturbed areas shall be stabilized in accordance with NC DEQ Division of Energy, Minerals, and Land Resources (DEMLR) Regulations.

Provide a ground cover stabilization (temporary or permanent) on all denuded downstream surfaces. Following the completion of land disturbing activities per the criteria listed below.

a. Perimeter, dikes, berms, swales, ditches, and slopes shall be stabilized in 7 days.
b. High quality water zones shall be stabilized in 7 days.
c. Downstream slopes steeper than 3:1 shall be stabilized in 7 days. If slopes are 10 foot or less and are steeper than 2:1, 14 days are allowed.
d. Downstream slopes 3:1 or flatter and less than 50 foot in length shall be stabilized in 14 days. Slopes 3:1 or flatter exceeding 50 foot in length shall be stabilized in 7 days.
e. All other downstream areas with slopes 4:1 or flatter shall be stabilized within 14 days.
f. Ground cover shall be provided on cut and for fill slopes with 21 calendar days after completion of any phase of grading. Ground cover over other areas shall be provided within shorter of 15 working or 90 calendar days (60 days in high quality water zones) of completion of construction of development.

If land disturbing activities occur outside the permanent vegetation seeding dates (April 1 – September 30) then temporary vegetation seeding specifications shall be followed for planting until the next appropriate permanent seeding period. At which time permanent vegetation shall be established according to permanent vegetation seeding specifications (see permanent and temporary seeding specifications).

If excessive wind erosion or stormwater runoff erosion develops during time of construction and location on the project site, additional erosion and sedimentation control measures shall be installed immediately as directed by the engineer to address the problem area and prevent damage to adjacent properties.

Soil erosion and sedimentation controls to be inspected, maintained, and repaired as necessary until permanent controls are established.

a. Dedicated demolition and other waste areas and earthen material stockpiles must be located at least 50 feet from drains or streams unless no alternatives is feasible.
b. All erosion and sediment control measures must be inspected at least once a week and within 24 hours after any storm event greater than a half an inch (during a 24 hour period). Immediate corrective action must be taken for any device failure.
c. Inspect all outlets where runoff leaves site and evaluate effect on nearby streams. Take corrective action as necessary.
d. Maintain records of inspections and corrective actions.
e. Earthwork note: offsite borrow materials shall come from an NC Land Quality Section approved site. Offsite disposal of excess material shall be to an NC Land Quality Section approved site.

6.0 Signature Pages

Name of Facility: Danny's Dumpster

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision and that the information provided in this application is true, accurate, and complete to the best of my knowledge.

I understand that North Carolina General Statute 130A-22 provides for administrative penalties of up to fifteen thousand dollars ($15,000) per day per each violation of the Solid Waste Management Rules. I further understand that the Solid Waste Management Rules may be revised or amended in the future and that the facility siting and operations of the solid waste management facility will be required to comply with all such revisions or amendments.

Signature	Danny Keaton Print Name	1/27/16 Date

Chief Operating Officer
Title

Danny's Dumpster
Business or Organization Name

Certification by Land Owner (if different from Applicant):

I hereby certify that I have read and understand the application submitted by Danny's Dumpster for a permit to operate a compost facility on land owned by the undersigned located at (address) 120 Hardesty Lane; (city) Asheville, NC, in Buncombe County, and described in Deed Book and Page(s) DB 2635/P 53 and DB 2478/P880

I specifically grant permission for the proposed compost facility planned for operation within the confines of the land, as indicated in the permit application. I understand that any permit will be issued in the names of both the operator and the owner of the facility/property. I acknowledge that ownership of land on which a solid waste management facility is located may subject me to cleanup of said property in the event that the operator defaults as well as to liability under the federal Comprehensive Environmental Responsibility, Compensation and Liability Act ("CERCLA"). Without accepting any fault or liability, I recognize that ownership of land on which a solid waste management facility is located may subject me to claims from persons who may be harmed in their persons or property caused by the solid waste management facility.

I am informed that North Carolina General Statute 130A-22 provides for administrative penalties of up to fifteen thousand dollars ($15,000) per day per each violation of the Solid Waste Management Rules. I understand that the Solid Waste Management Rules may be revised or amended in the future, and that the siting and operation of the facility will be required to comply with any such revisions or amendments.

Signature _____ Date 5/26/16

Gary W. Jackson
Print name

NORTH CAROLINA

Buncombe County

I, Thomas Eugene Downing Notary Public for ~~said~~ Haywood County and State, do hereby certify that Gary W. Jackson personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 27th day of May, 2016.

(Official Seal)

THOMAS EUGENE DOWNING
NOTARY PUBLIC, NORTH CAROLINA
HAYWOOD COUNTY
MY COMMISSION EXPIRES
FEBRUARY 02, 2021

Notary Public

My commission expires 2-2-21.

FIGURES

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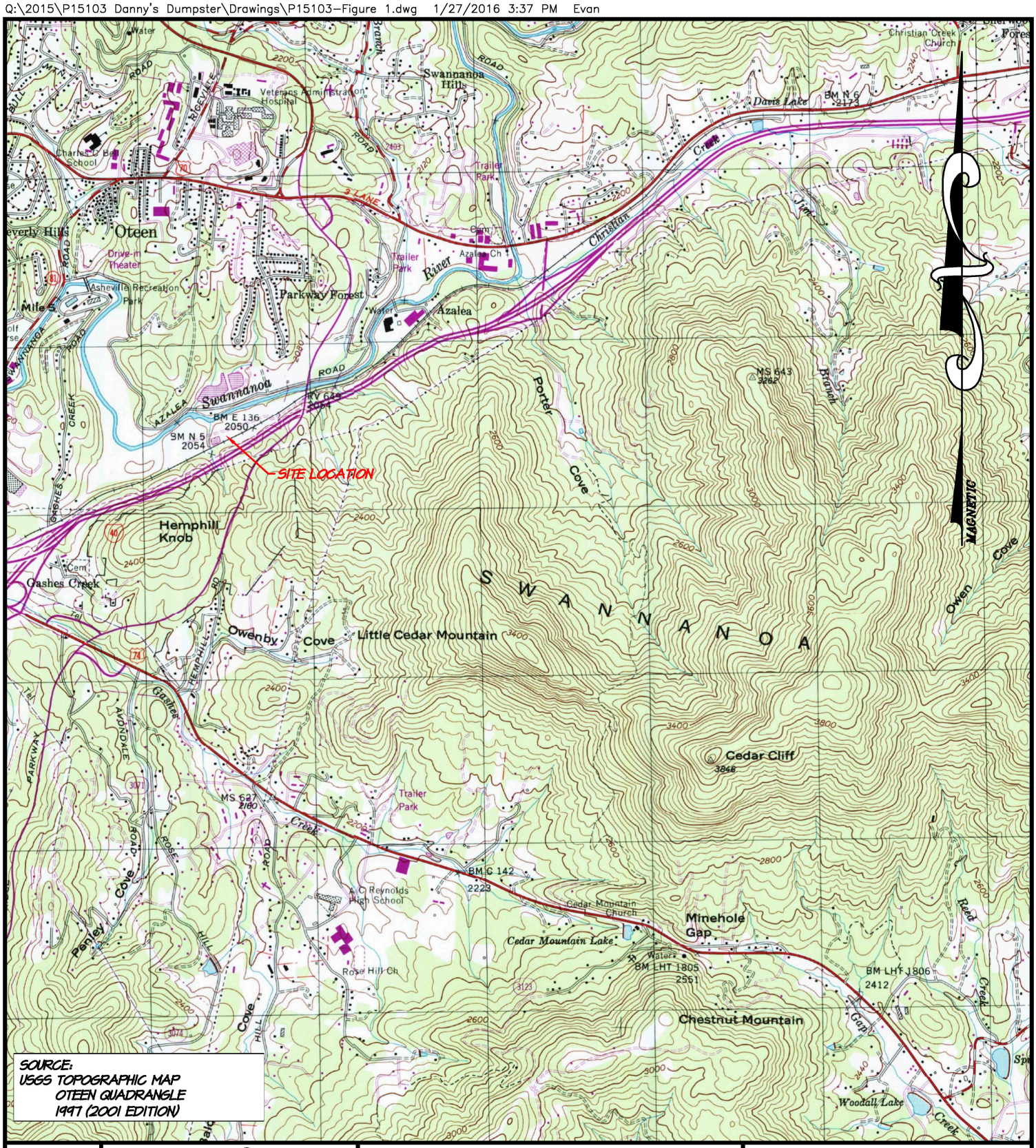

PROJECT	COPYRIGHT © 2015 QUIBLE & ASSOCIATES, P.C.	FIGURE 1 - SITE LOCATION MAP	Quible & Associates, P.C. SINCE 1959
P15103	THIS DOCUMENT IS THE PROPERTY OF QUIBLE & ASSOCIATES, P.C. ANY ALTERATION OF THIS DOCUMENT IS PROHIBITED. IF THIS DOCUMENT IS NOT SIGNED AND SEALED BY A LICENSED PROFESSIONAL THEN THIS DOCUMENT SHALL BE CONSIDERED PRELIMINARY, NOT A CERTIFIED DOCUMENT AND SHALL NOT BE USED FOR CONSTRUCTION, RECORDATION, SALES OR LAND CONVEYANCES, UNLESS OTHERWISE NOTED.	**DANNY'S DUMPSTER COMPOST FACILITY**	ENGINEERING * CONSULTING * PLANNING ENVIRONMENTAL SCIENCES * SURVEYING
DRAWN BY EMY		ASHEVILLE BUNCOMBE COUNTY NORTH CAROLINA	NC License#: C-0208 PO Drawer 870, Kitty Hawk, NC 27949 Phone: (252) 491-8147 Fax: (252) 491-8146 E-Mail: administrator@quible.com
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DATE 12/31/15			

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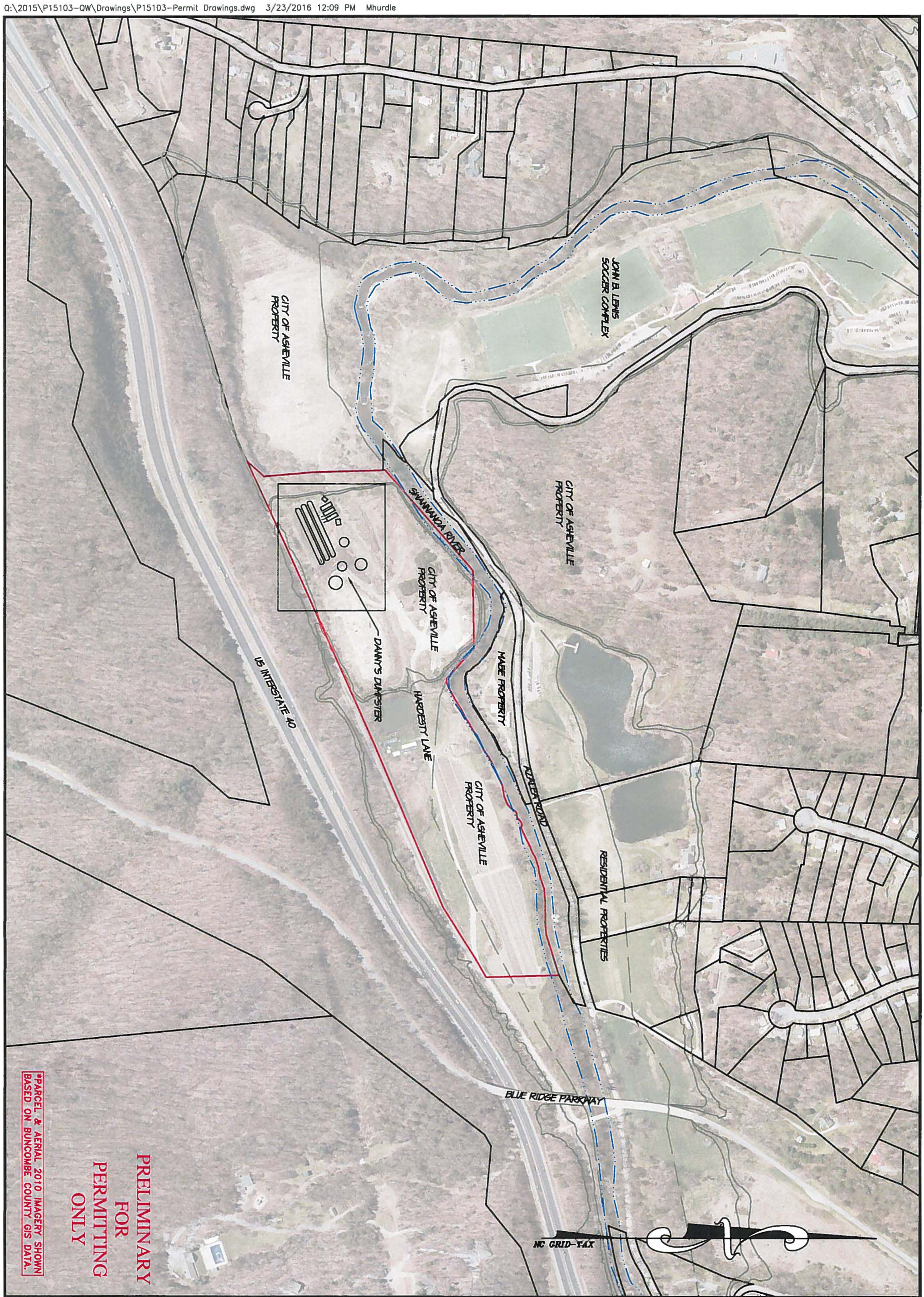

PROJECT	P15103
DRAWN BY	EMY
CHECKED BY	MWS
DATE	03/23/16

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FIGURE 2 - SITE VICINITY MAP

DANNY'S DUMPSTER

Type III Compost Permit Application

CITY OF ASHEVILLE — BUNCOMBE COUNTY
NORTH CAROLINA

0 400' 800'
GRAPHIC SCALE IN FEET 1"=400'

NORTH CAROLINA PROFESSIONAL SEAL 037813 ENGINEER MICHAEL W. STRADER, JR.
3/23/2016

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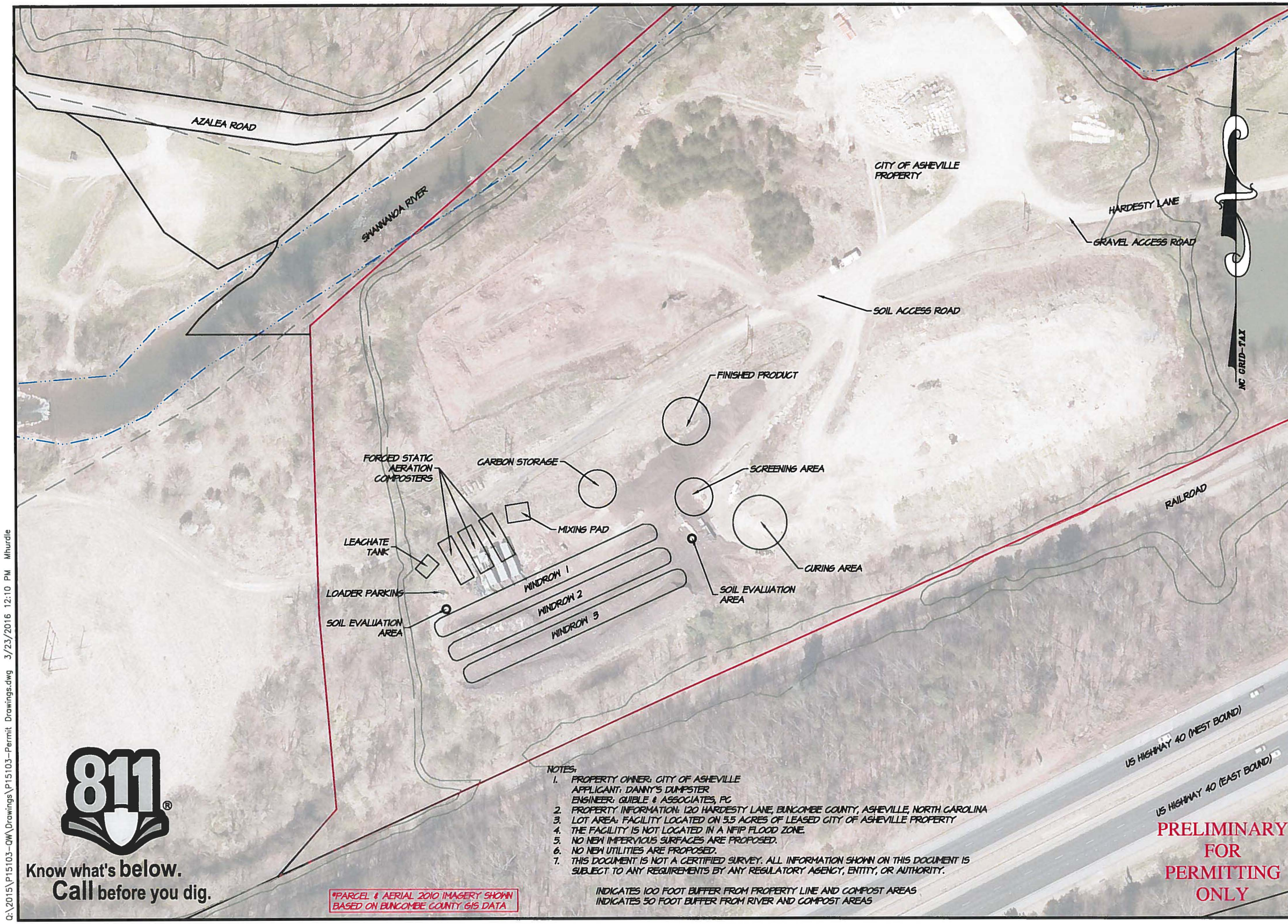

NOTES:

1. PROPERTY OWNER: CITY OF ASHEVILLE
   APPLICANT: DANNY'S DUMPSTER
   ENGINEER: QUIBLE & ASSOCIATES, PC
2. PROPERTY INFORMATION: 120 HARDESTY LANE, BUNCOMBE COUNTY, ASHEVILLE, NORTH CAROLINA
3. LOT AREA: FACILITY LOCATED ON 5.5 ACRES OF LEASED CITY OF ASHEVILLE PROPERTY
4. THE FACILITY IS NOT LOCATED IN A NFIP FLOOD ZONE.
5. NO NEW IMPERVIOUS SURFACES ARE PROPOSED.
6. NO NEW UTILITIES ARE PROPOSED.
7. THIS DOCUMENT IS NOT A CERTIFIED SURVEY. ALL INFORMATION SHOWN ON THIS DOCUMENT IS SUBJECT TO ANY REQUIREMENTS BY ANY REGULATORY AGENCY, ENTITY, OR AUTHORITY.

INDICATES 100 FOOT BUFFER FROM PROPERTY LINE AND COMPOST AREAS
INDICATES 50 FOOT BUFFER FROM RIVER AND COMPOST AREAS

Quible & Associates, P.C.
SINCE 1959
ENGINEERING * CONSULTING * PLANNING
ENVIRONMENTAL SCIENCES * SURVEYING
NC License#: C-0208
PO Drawer 870, Kitty Hawk, NC 27949
Phone: (252) 491-8147
Fax: (252) 491-8146
E-Mail: administrator@quible.com

NORTH CAROLINA PROFESSIONAL SEAL 037813 ENGINEER MICHAEL W. SAUER, JR.

3/23/2016

FIGURE 3 - SITE LAYOUT MAP

DANNY'S DUMPSTER

Type III Compost Permit Application

CITY OF ASHEVILLE — BUNCOMBE COUNTY — NORTH CAROLINA

GRAPHIC SCALE IN FEET 1"=100'

0 100' 200'

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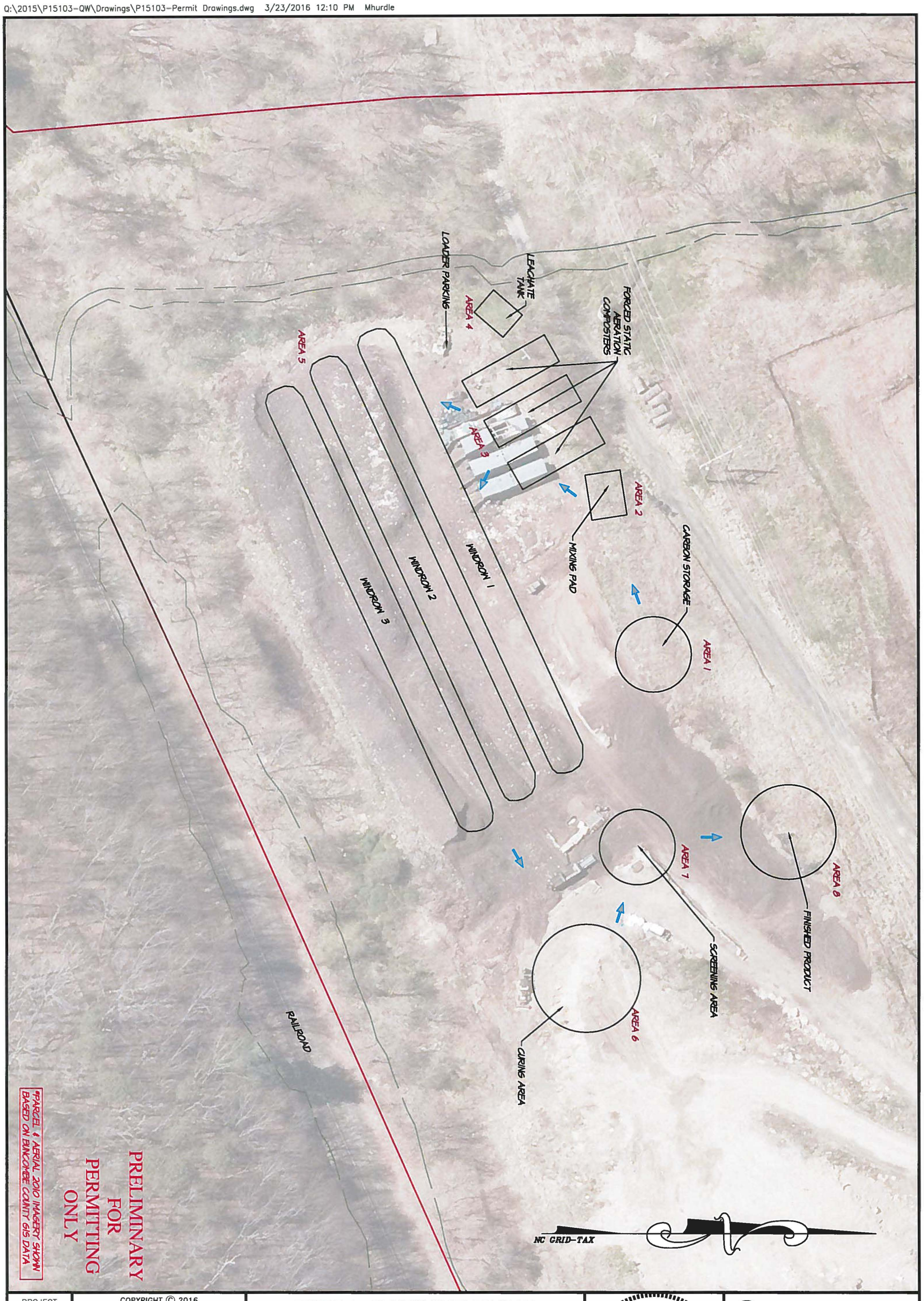
PROJECT	P15103
DRAWN BY	EMY
CHECKED BY	MWS
DATE	03/23/16

Q:\2015\P15103-QW\Drawings\P15103-Permit Drawings.dwg 3/23/2016 12:10 PM Mhurdle

Q:\2015\P15103-QW\Drawings\P15103-Permit Drawings.dwg 3/23/2016 12:10 PM Mhurdle



PROJECT	COPYRIGHT © 2016 QUIBLE & ASSOCIATES, P.C.	FIGURE 4 - PROCESS FLOW DIAGRAM		Quible SINCE 1959
P15103	THIS DOCUMENT IS THE PROPERTY OF QUIBLE & ASSOCIATES, P.C. ANY ALTERATION OF THIS DOCUMENT IS PROHIBITED.	**DANNY'S DUMPSTER** *Type III Compost Permit Application*	NORTH CAROLINA PROFESSIONAL SEAL 037813 ENGINEER MICHAEL W. STRADER, JR. 3/23/2016	& Associates, P.C.
DRAWN BY EMY	IF THIS DOCUMENT IS NOT SIGNED AND SEALED BY A LICENSED PROFESSIONAL THEN THIS DOCUMENT SHALL BE CONSIDERED PRELIMINARY, NOT A CERTIFIED DOCUMENT AND SHALL NOT BE USED FOR CONSTRUCTION, RECORDATION, SALES OR LAND CONVEYANCES, UNLESS OTHERWISE NOTED.	CITY OF ASHEVILLE — BUNCOMBE COUNTY — NORTH CAROLINA		ENGINEERING * CONSULTING * PLANNING ENVIRONMENTAL SCIENCES * SURVEYING
CHECKED BY MWS		0 50' 100' GRAPHIC SCALE IN FEET 1"=50'		NC License#: C-0208 PO Drawer 870, Kitty Hawk, NC 27949 Phone: (252) 491-8147 Fax: (252) 491-8146 E-Mail: administrator@quible.com
DATE 03/23/16				

APPENDIX A
Property Deed Documents

Book 2478
Pages 880 - 882
BUNCOMBE COUNTY, NC
Recorded 05/03/2001 04:53:17 PM
No. 9999-00031958 1 of 3 Pgs
Excise Tax Paid 1,940.00
Otto W. DeBruhl, Register of Deeds

NO TITLE WORK PERFORMED BY PREPARER

Excise Tax $1,940.00

Parcel Identifier No. 9668.00-42-4133; 9668.18-22-7461;
9668.18-31-2659; 9668.14-22-8820 & 9668.14-33-5193

Mail after recording to William F. Slawter of Nesbitt & Slawter

This instrument was prepared by David L. English of Roberts & Stevens, PA

NORTH CAROLINA GENERAL WARRANTY DEED

THIS DEED made this 3rd day of May, 2001, by and between

GRANTOR	GRANTEE
John W. Moyer, widower	City of Asheville, a North Carolina Municipal Corporation PO Box 7148 Asheville, NC 28802

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land situated in the City of Asheville, Buncombe County, North Carolina and more particularly described as follows:

See Exhibit A attached

Work Flow No: 9999-00031958

2

The property hereinabove described was acquired by Grantor by instrument recorded in Deed Book ____ at page _____, Buncombe County Registry.

A map showing the above described property is recorded in Plat Book 80 at page 51, Buncombe County Registry.

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that Grantor will warrant and defend the title against the lawful claims of all persons whomsoever except for the exceptions hereinafter stated. Title to the property hereinabove described is subject to the following exceptions:

Easements, restrictions, rights of way of record, apparent or in use, and 2001 ad valorem taxes.

The warranties expressed herein do not apply to Tract Four described on Exhibit A.

IN WITNESS WHEREOF, the Grantor has hereunto set his hand and seal, or if corporate, has caused this instrument to be signed in its corporate name by its duly authorized officers and its seal to be hereunto affixed by authority of its Board of Directors, the day and year first above written.

John W. Moyer (SEAL)
John W. Moyer, widower

SEAL-STAMP

NORTH CAROLINA, Buncombe County

I, a Notary Public of the County and State aforesaid, certify that John W. Moyer, Grantor, personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official stamp or seal, this 3rd day of May, 2001.

Dana Sutton Clark
Notary Public

My commission expires: 3-24-05

State of North Carolina, County of Buncombe
Each of the foregoing certificates, of Dana Sutton Clark
is hereby certified to be correct. Filed for registration on this the 3rd day of May 2001
Otto W. DeBruhl Sharon E. Bingham
OTTO W DEBRUHL, Register of Deeds By: Deputy

R&S:258751.1

6887.006

3

EXHIBIT A

Being all of the following tracts of land shown on a Plat entitled "Survey for City of Asheville" which is recorded in the Office of the Register of Deeds, Buncombe County, NC, in Plat Book 80 at page 51, reference to which is hereby made for a more particular description:

Tract One: Containing 0.93 acres and identified as "Moyer-North Tract".

Tract Two: Containing 45.47 acres and identified as "Moyer-Central Tract".

Tract Three: Containing 33.48 acres and identified as "Moyer-South Tract"

Together with all rights of Grantor across that property shown in the "Detail" on said Plat for ingress and egress to and from Oteen Church Road, and across Old Hemphill Road and the bridge crossing the Swannanoa River as shown on said Plat for ingress and egress to and from Azalea Road.

Subject to any rights of others existing by virtue of an existing Lease recorded in Book 2130 at page 653, for 3 acres more or less, from Vallie B. Moyer to Howard Treadway and Harvey Fuller, dated June 20, 1996.

And being part of the properties conveyed to John W. Moyer by the following Deeds:

1. From Karen Beckom Nesbitt and husband, Douglas A. Nesbitt dated September 23, 1998, recorded in Book 2049 at page 440 (PIN 9668.18-22-7461)

2. From John W. Moyer to John W. Moyer and wife, Vallie E. Moyer , dated March 4, 1980, recorded in Book 1240 at page 247 (PIN 9668.14-22-8820)

3. From Reed A. Harper and wife, Arvenia Harper, dated April 1, 1974, recorded in Book 1097 at page 412. (PIN 9668.00-42-4133)

4. From Audrey Harper (single) dated April 1, 1974, recorded in Book 1097 at page 434. (PIN 9668.00-42-4133)

5. From Jeannette C. Moyer, unmarried, dated November 14, 1972, recorded in Book 1073 at page 519. (PIN 9668.14-33-5193)

6. From Vallie E. Beckmon Moyer and John W. Moyer, husband and wife, dated October 1, 1991, recorded in Book 1668 at page 716. (PIN 9668.18-31-2659)

SAVING AND EXCEPTING all conveyances heretofore made.

Tract Four: The Grantor has remised and released and by these presents does remise, release, convey, and forever quitclaim unto the Grantee, its successors and assigns, all right, title, claim and interest of the Grantor in and to the following property:

BEGINNING at survey point #9 on the north bank of the Swannanoa River as shown on the aforesaid Plat; thence North 50° 10' 00" East 368.35 feet to an iron pin at survey point 141 as shown on said Plat; thence crossing the Swannanoa River South 01° 34' 00" West 114.80 feet to survey point 121 as shown on said Plat; thence South 51° 22' 48" West 90.05 feet to survey point 122; thence South 44° 42' 16" West 46.20 feet to survey point 123; thence South 47° 26' 51" West 57.69 feet to survey point 124; thence South 51° 38' 19" West 103.37 feet to survey point 125; thence South 53° 30' 35" West 41.32 feet to survey point 126; thence South 81° 17' 27" West 11.50 feet to survey point 10; thence crossing the Swannanoa River North 05° 07' 17" West 97.72 feet to the point and place of Beginning, SAVING AND EXCEPTING that part of the above described property which falls within the waterway of the Swannanoa River.

APPENDIX B
City of Asheville Easements Map

WELLS TRACT: 66.42± ACRES

LINE TABLE		
LINE	BEARING	LENGTH
L1	S66°40'00"E	119.70'
L2	S02°53'00"W	263.10'
L3	S08°04'00"W	274.06'
L4	S70°39'46"E	51.01'
L5	S56°14'57"W	51.12'
L6	S83°12'55"W	65.15'
L7	N83°42'59"W	106.97'
L8	S80°00'07"W	50.33'
L9	S49°07'20"W	44.27'
L10	S32°43'56"W	46.29'
L11	S13°24'50"W	59.13'
L12	S24°32'00"E	60.43'
L13	S28°32'34"E	75.89'
L14	S16°20'58"E	56.59'
L15	S11°36'22"E	154.35'
L16	S23°26'22"E	88.40'
L17	S34°09'26"E	64.96'
L18	S36°36'49"E	153.67'
L19	S33°37'54"E	143.35'
L20	S32°49'53"E	88.33'
L21	S38°07'03"E	52.82'
L22	S48°48'55"E	59.65'
L23	S47°52'36"E	84.57'
L24	S40°16'25"E	45.03'
L25	S29°11'36"E	29.75'
L26	S26°24'59"E	25.33'
L27	S13°27'44"E	22.09'
L28	S16°03'08"E	21.08'
L29	S07°16'57"E	23.39'
L30	S87°20'04"W	143.75'
L31	S87°33'01"W	46.05'
L32	S05°40'00"W	234.14'
L33	S05°01'00"E	300.20'
L34	S64°34'59"E	176.50'
L35	S33°10'00"E	136.60'
L36	S55°40'00"E	68.50'
L37	N69°50'00"E	75.60'
L38	N48°30'00"E	176.80'
L39	N50°10'00"E	36.45'
L40	S05°07'14"E	97.72'
L41	S05°07'26"E	33.85'
L42	S32°10'00"W	161.30'
L43	S02°53'00"W	203.30'
L44	S01°12'00"E	307.80'
L45	S63°00'00"W	285.50'
L46	S78°17'00"W	310.30'
L47	S73°05'00"W	213.50'
L48	S75°23'00"W	298.38'
L49	S75°08'20"E	98.12'
L50	S75°29'26"W	25.05'
L51	S73°24'57"W	45.91'
L52	S71°13'12"W	62.22'
L53	S70°46'34"W	48.43'
L54	S68°12'09"W	52.67'
L55	S65°51'31"W	53.40'
L56	S63°08'28"W	40.33'
L57	S59°22'49"W	18.99'
L58	N43°45'00"W	82.71'
L59	N37°45'00"W	45.58'
L60	N04°53'32"W	140.81'
L61	N10°30'16"E	143.31'
L62	N30°03'52"E	312.28'
L63	N26°27'26"E	289.16'
L64	N11°59'05"E	14.55'
L65	N18°50'05"W	72.38'
L66	N04°21'33"E	32.26'
L67	N03°45'21"E	55.30'
L68	N10°21'32"W	59.92'
L69	N09°40'39"W	27.95'
L70	N04°49'01"E	51.99'
L71	N05°53'24"W	126.05'
L72	N03°37'14"E	44.55'
L73	N03°37'14"E	93.08'
L74	N05°50'18"W	58.46'
L75	N11°44'11"W	52.86'
L76	N03°10'33"W	289.11'
L77	N48°07'49"W	446.56'
L78	N15°50'16"W	189.99'
L79	N01°49'00"W	189.53'
L80	N10°16'00"W	287.70'
L81	S87°22'00"E	139.30'
L82	S87°22'00"E	42.20'
L83	N13°00'00"E	330.40'
L84	N37°18'00"E	297.30'
L85	N46°09'00"E	90.39'
L86	N46°09'00"E	207.61'
L87	N71°02'00"E	92.19'
L88	N71°02'00"E	205.51'

MOYER – SOUTH TRACT 33.48±ACRES

L103	S68°37'57"W	52.48'
L104	S64°56'56"W	108.85'
L105	S63°45'53"W	101.00'
L106	S59°54'58"W	130.35'
L107	S52°50'18"W	56.93'
L108	S59°02'04"W	54.32'
L109	S62°48'08"W	73.71'
L110	S64°31'36"W	48.48'
L111	N81°07'41"W	50.46'
L112	N73°52'56"W	30.21'
L113	N51°55'33"W	45.37'
L114	N52°45'29"W	48.70'
L115	N33°03'05"W	49.13'
L116	N50°26'37"W	40.03'
L117	N60°09'26"W	30.50'
L118	N72°10'49"W	41.02'
L119	N72°42'49"W	34.60'
L120	N80°07'01"W	39.20'
L121	S88°48'32"W	49.64'
L122	S79°32'52"W	35.01'
L123	S50°01'01"W	27.76'
L124	S56°33'03"W	48.04'
L125	S48°34'01"W	52.41'
L126	S56°46'23"W	53.86'
L127	S51°10'12"W	53.27'
L129	S51°22'47"W	90.05'
L130	S44°42'16"W	46.21'
L131	S47°26'53"W	57.69'
L132	S51°38'19"W	103.37'
L133	S53°30'37"W	41.32'
L134	S81°17'09"W	11.50'
L41	S05°07'26"E	33.85'
L42	S32°10'00"W	161.30'
L43	S02°53'00"W	203.30'
L44	S01°12'00"E	307.80'
L135	S45°16'00"W	125.86'
L136	N66°21'53"E	1185.95'
L137	S02°23'59"E	104.40'
L138	N66°33'00"E	110.89'
L139	N33°24'29"E	73.76'
L140	N60°18'28"E	117.41'
L141	N73°11'01"E	104.94'
L142	N80°38'25"E	220.77'
L143	N64°25'07"E	137.88'
L144	N69°09'27"E	178.45'
L145	N50°17'24"E	187.29'
L146	N54°44'07"E	298.56'
L147	N16°30'53"E	445.52'
L148	S67°20'13"W	63.82'
L149	S75°32'47"W	58.25'
L150	S73°56'34"W	109.69'
L151	S80°24'25"W	113.23'
L152	S86°26'49"W	114.89'
L153	S82°18'23"W	111.75'
L154	S80°32'16"W	54.14'
L155	S71°43'54"W	115.35'
L156	S72°00'12"W	56.22'
L157	S68°28'35"W	71.24'

(THIS TABLE RUNS COUNTER CLOCKWISE)

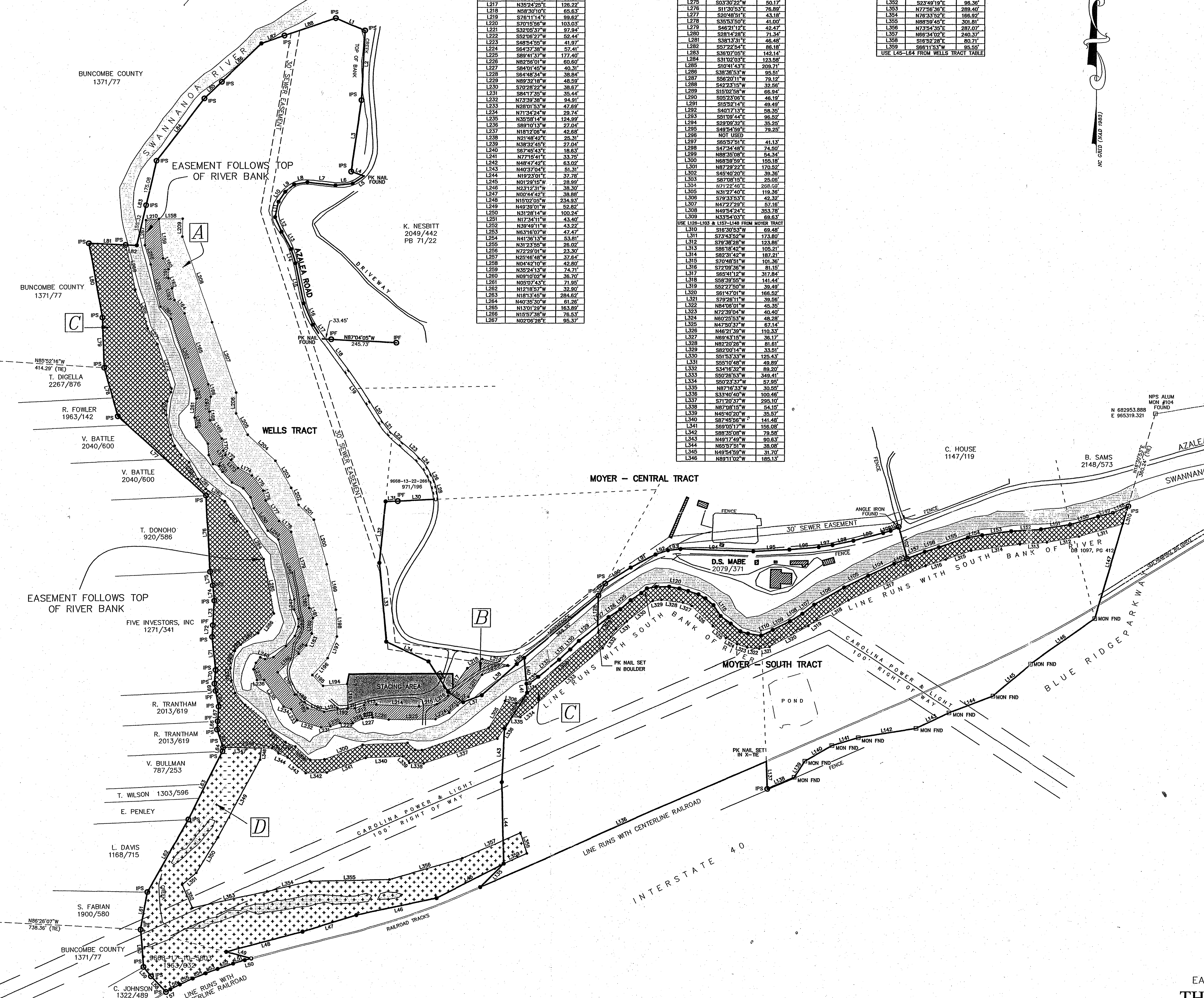
CONSERVATION EASEMENT "A" 4.70±ACRES

LINE TABLE		
LINE	BEARING	LENGTH
L158	N89°55'23"W	88.86'
L159	S05°38'16"E	151.62'
L160	S27°02'15"E	46.26'
L161	S00°23'04"W	34.00'
L162	S19°31'35"E	41.01'
L163	S10°19'32"E	44.64'
L164	S36°58'37"E	63.91'
L165	S18°23'16"E	283.96'
L166	S11°13'01"E	47.79'
L167	S05°43'48"W	56.23'
L168	S03°41'43"E	32.55'
L169	S32°54'57"E	82.14'
L170	S07°20'46"E	44.70'
L171	S24°42'03"E	18.57'
L172	S50°34'32"E	28.36'
L173	S40°40'37"E	40.99'
L174	S62°09'47"E	58.95'
L175	S37°00'30"E	70.52'
L176	S14°29'29"E	38.35'
L177	S33°18'31"E	93.69'
L178	S47°50'56"E	60.48'
L179	S15°22'33"E	250.28'
L180	S03°57'34"E	47.82'
L181	S19°47'54"E	39.90'
L182	S03°42'33"W	59.43'
L183	S25°02'19"W	50.13'
L184	S40°42'16"W	40.58'
L185	NOT USED	
L186	S49°00'41"W	108.12'
L187	S37°45'31"E	106.19'
L188	S52°42'30"E	45.91'
L189	S24°58'29"E	25.64'
L190	S77°51'35"E	64.56'
L191	N74°59'19"E	52.85'
L192	S88°31'31"E	36.57'
L193	N00°07'50"W	92.17'
L194	S85°36'20"W	91.64'
L195	N44°35'40"W	57.94'
L196	N42°32'18"E	85.77'
L197	N23°04'17"E	89.68'
L198	N01°58'36"W	101.88'
L199	N11°32'44"W	175.59'
L200	N16°13'47"W	176.30'
L201	N45°54'34"W	80.73'
L202	N23°59'01"W	69.17'
L203	N30°24'14"W	118.05'
L204	N47°13'16"W	142.58'
L205	N28°38'02"W	90.47'
L206	N00°00'00"E	78.20'
L207	N18°49'49"W	281.92'
L208	N18°50'13"W	345.69'
L209	N00°43'37"E	67.42'

(THIS TABLE RUNS COUNTER CLOCKWISE)

MABE TRACT: 5.12±ACRES

L89	N28°34'00"E	53.11'
L90	N57°51'17"E	114.48'
L91	N62°25'10"E	106.24'
L92	N70°49'29"E	49.69'
L93	N84°22'51"E	48.00'
L94	S88°14'23"E	275.10'
L95	N87°12'57"E	136.49'
L96	N85°28'39"E	111.48'
L97	N81°28'11"E	52.45'
L98	N78°16'44"E	80.88'
L99	N75°25'43"E	116.06'
L100	N72°42'16"E	29.26'
L101	N65°07'46"E	34.44'
L102	S15°04'21"E	124.00'
L103	S68°37'57"W	52.48'
L104	S64°56'56"W	108.85'
L105	S63°45'53"W	101.00'
L106	S59°54'58"W	130.35'
L107	S52°50'18"W	56.93'
L108	S59°02'04"W	54.32'
L109	S62°48'08"W	73.71'
L110	S64°31'36"W	48.48'
L111	N81°07'41"W	50.46'
L112	N73°52'56"W	30.21'
L113	N51°55'33"W	45.37'
L114	N52°45'29"W	48.70'
L115	N33°03'05"W	49.13'
L116	N50°26'37"W	40.03'
L117	N60°09'26"W	30.50'
L118	N72°10'49"W	41.02'
L119	N72°42'49"W	34.60'
L120	N80°07'01"W	39.20'
L121	S88°48'32"W	49.64'
L122	S79°32'52"W	35.01'
L123	S50°01'01"W	27.76'
L124	S56°33'03"W	48.04'
L125	S48°34'01"W	52.41'
L126	S56°46'23"W	53.86'
L127	S51°10'12"W	53.27'
L128	N01°34'00"E	114.80'



CONSTRUCTION EASEMENT "B" 3.80±ACRES

LINE TABLE		
LINE	BEARING	LENGTH
L210	N84°12'38"E	50.28'
USE L159–L192 FROM CONS. EASE. "A"		
L211	N86°48'24"E	28.17'
L212	N71°34'55"E	36.75'
L213	N88°42'16"E	46.81'
L214	S87°38'40"E	161.72'
L215	N83°06'51"E	68.40'
L216	N52°59'49"E	53.26'
L217	N35°24'25"E	126.22'
L218	N58°30'10"E	65.63'
L219	S76°11'14"E	99.62'
L220	S70°15'56"W	103.03'
L221	S32°05'37"W	97.94'
L222	S52°06'27"W	52.44'
L223	S48°54'55"W	41.97'
L224	S64°37'38"W	57.41'
L225	S89°41'37"W	177.40'
L226	N82°56'01"W	60.60'
L227	S84°01'45"W	40.31'
L228	S64°48'34"W	38.84'
L229	N89°32'18"W	48.59'
L230	S70°28'22"W	38.67'
L231	S84°17'35"W	35.44'
L232	N73°39'38"W	94.91'
L233	N28°01'53"W	47.69'
L234	N71°34'24"W	29.74'
L235	N35°58'14"W	124.99'
L236	S89°10'13"W	27.04'
L237	N18°12'06"W	42.68'
L238	N21°48'42"E	25.31'
L239	N38°32'45"E	27.04'
L240	S67°45'43"E	18.63'
L241	N77°15'41"E	33.75'
L242	N48°47'42"E	63.02'
L243	N40°37'04"E	51.31'
L244	N19°23'01"E	37.78'
L245	N01°29'15"W	28.99'
L246	N23°12'31"W	38.30'
L247	N00°44'42"E	38.88'
L248	N15°02'05"W	234.93'
L249	N49°39'01"W	52.82'
L250	N31°28'14"W	100.24'
L251	N17°34'11"W	43.40'
L252	N39°49'11"W	43.22'
L253	N63°16'07"W	47.47'
L254	N41°36'13"W	53.81'
L255	N31°23'55"W	26.02'
L256	N72°29'01"W	23.30'
L257	N25°46'48"W	37.64'
L258	N04°42'10"W	42.80'
L259	N35°24'13"W	74.71'
L260	N09°10'02"W	36.70'
L261	N05°07'43"E	71.95'
L262	N12°18'57"W	32.90'
L263	N18°13'45"W	284.62'
L264	N40°35'30"W	61.26'
L265	N13°01'29"W	163.89'
L266	N15°57'38"W	76.53'
L267	N02°06'28"E	95.37'

CONSERVATION EASEMENT "C" 10.94±ACRES

LINE TABLE		
LINE	BEARING	LENGTH
USE L65–L81 FROM WELLS TRACT TABLE		
L268	S12°01'22"E	174.52'
L269	S17°35'59"E	154.97'
L271	S31°48'39"E	68.78'
L272	S17°28'44"E	177.25'
L273	S10°30'27"W	14.03'
L274	S21°52'37"W	37.09'
L275	S03°30'22"W	50.17'
L276	S11°30'53"E	76.89'
L277	S20°48'51"E	43.18'
L278	S35°53'50"E	41.00'
L279	S46°21'12"E	42.47'
L280	S28°14'28"E	71.34'
L281	S38°13'31"E	46.48'
L282	S57°22'54"E	86.18'
L283	S36°07'05"E	142.14'
L284	S31°02'03"E	123.58'
L285	S10°41'43"E	209.71'
L286	S38°36'53"W	95.51'
L287	S56°20'11"W	79.12'
L288	S42°23'15"W	32.56'
L289	S15°02'58"W	66.94'
L290	S05°23'06"E	46.19'
L291	S15°52'14"E	49.49'
L292	S40°17'13"E	58.35'
L293	S51°09'44"E	96.52'
L294	S29°09'32"E	35.25'
L295	S49°54'59"E	79.25'
L296	NOT USED	
L297	S65°57'51"E	41.13'
L298	S47°34'48"E	74.50'
L299	N88°35'08"E	54.34'
L300	N68°59'59"E	155.18'
L301	N87°29'22"E	170.52'
L302	S45°40'20"E	39.36'
L303	S87°08'15"E	25.06'
L304	N71°22'46"E	268.99'
L305	N31°27'40"E	119.36'
L306	S79°33'53"E	42.32'
L307	N47°27'29"E	57.16'
L308	N49°54'24"E	353.78'
L309	N33°54'03"E	69.63'
USE L126–L103 & L157–L148 FROM MOYER TRACT		
L310	S16°30'53"W	69.48'
L311	S73°43'52"W	173.80'
L312	S79°38'28"W	123.86'
L313	S86°18'42"W	105.21'
L314	S82°31'42"W	187.21'
L315	S70°48'51"W	101.36'
L316	S72°09'36"W	81.15'
L317	S65°41'12"W	317.84'
L318	S58°39'55"W	141.44'
L319	S52°27'50"W	39.49'
L320	S61°47'01"W	166.52'
L321	S79°26'11"W	39.56'
L322	N84°06'01"W	45.35'
L323	N72°39'04"W	40.40'
L324	N60°25'53"W	48.28'
L325	N47°50'37"W	67.14'
L326	N46°21'39"W	110.33'
L327	N69°43'15"W	36.17'
L328	N82°20'26"W	81.61'
L329	S82°00'14"W	33.51'
L330	S51°53'33"W	125.43'
L331	S55°10'48"W	49.89'
L332	S34°16'32"W	89.20'
L333	S50°26'53"W	349.41'
L334	S50°23'37"W	57.95'
L335	N87°16'33"W	30.55'
L336	S33°40'40"W	100.46'
L337	S71°20'37"W	295.10'
L338	N87°08'15"W	54.15'
L339	N45°40'20"W	35.57'
L340	S87°45'56"W	141.48'
L341	S69°05'17"W	156.08'
L342	S88°35'08"W	79.58'
L343	N49°17'49"W	90.63'
L344	N65°57'51"W	38.08'
L345	N49°54'59"W	31.70'
L346	N89°11'02"W	185.13'

WETLANDS AREA "D" 7.65±ACRES

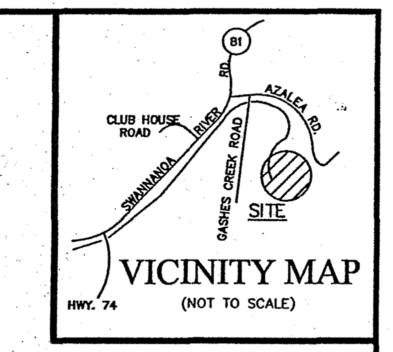
LINE TABLE		
LINE	BEARING	LENGTH
L347	S89°11'02"E	144.38'
L348	S06°00'03"W	45.14'
L349	S28°29'12"W	334.18'
L350	S31°56'01"W	155.15'
L351	S51°15'43"W	70.14'
L352	S23°49'19"E	96.36'
L353	N77°56'36"E	289.40'
L354	N76°33'52"E	166.92'
L355	N88°59'45"E	301.81'
L356	N73°54'35"E	287.07'
L357	N66°34'02"E	240.37'
L358	S16°52'28"E	80.71'
L359	S66°11'53"W	95.55'
USE L45–L64 FROM WELLS TRACT TABLE		

REFERENCES:

PB 7, PG 31
PB 16, PG 29
PB 16, PG 1
PB 16, PG 2
PB 16, PG 30
PB 17, PG 23
PB 23, PG 79
PB 50, PG 47
PB 55, PG 70
PB 59, PG 134
PB 69, PG 76
PB 71, PG 22
PB 80, PG 51

UNRECORED SURVEYS BY:

ASHLEY ENGINEERING
CARTER & BEARDEN ENGINEERS
MATHESON, HINTZ, & ASSOCIATES
HURLEY KING
MITCHELL EFFLER
J. GLENN HAYNES



LEGEND

IPF – IRON PIN FOUND
IPS – IRON PIN SET
● – POINT NOT SET

NOTES:

1. COMBINED GRID FACTOR: 0.9997922; ALL DISTANCES SHOWN ARE HORIZONTAL DISTANCES, UNLESS OTHERWISE NOTED.
2. SUBJECT TO EASEMENTS AND RIGHTS OF WAY OF RECORD.
3. IMPROVEMENTS SHOWN ARE BASED ON MAP BY MA ENGINEERS.

I HEREBY CERTIFY THAT THIS PLAT IS OF THE FOLLOWING TYPE: G.S. 47–30 (f)(11)(c)(1).

THIS SURVEY IS OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET.

RICHARD M. BIGGS, P.L.S.

NORTH CAROLINA PROFESSIONAL L 1338 LAND SURVEYOR RICHARD M. BIGGS

EASEMENTS ACROSS THE PROPERTY OF

THE CITY OF ASHEVILLE

BUNCOMBE COUNTY, NC
CITY OF ASHEVILLE
SCALE 1" = 200' 3/28/01

RICHARD M. BIGGS, P.L.S.
HUTCHISON – BIGGS & ASSOCIATES, INC.
306 W. HAYWOOD STREET ASHEVILLE, NC
PHONE: (828)258–1065; FAX: (828)258–1825

200 100 0 200 400 600 800 1000

REVISED 9/22/04: ADDED CONSERVATION & CONSTRUCTION EASEMENTS

D:\dwg04\04166ce v– rcb

D04–1556

APPENDIX C
City of Asheville Conditional Zoning Letter and Associated Documents

Planning and Development Department
Planning Services
Historic Resources
Community Development

December 7, 2015

Mr. Daniel Keaton
Danny's Dumpster
60 Huckleberry Cove
Leicester, NC 28748

Re: PIN # 9668-31-9966.00000

To Whom It May Concern:

This is to advise that the parcel identified as PIN # 9668-31-9966.00000, located at 120 Hardesty Lane is conditionally zoned CZ–Commercial Industrial, as of this date. City Ordnance Number 4108 established the conditional zoning on this property and a copy of that ordinance is attached.

The conditions attached to the conditional zoning approval are listed below.

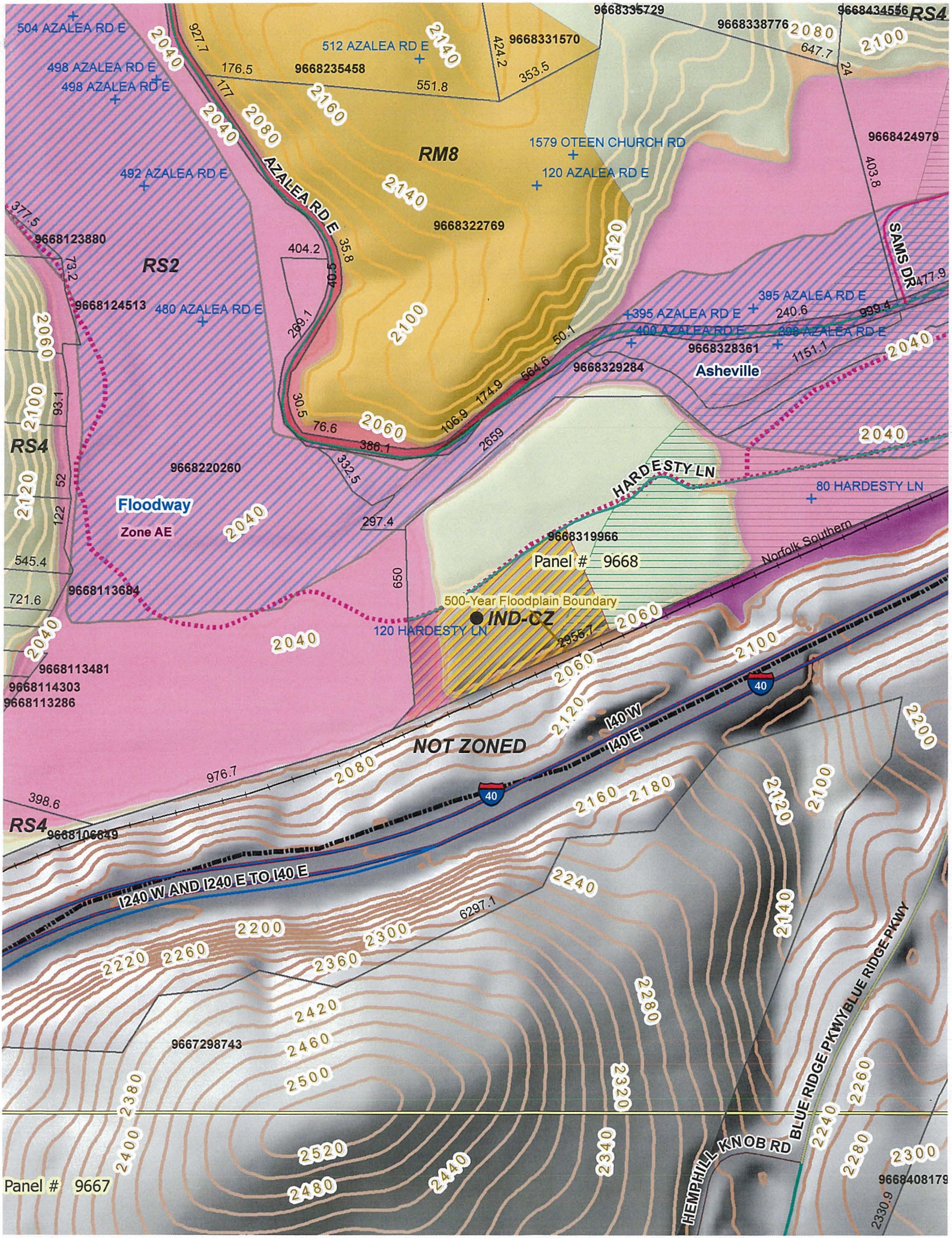
1. The project shall comply with all conditions outlined in the TRC staff report.
2. All site lighting must comply with the City's Lighting Ordinance and be equipped with full cutoff fixtures and directed away from adjoining properties and streets.
3. All existing vegetation that is to be preserved must be clearly indicated and dimensioned on the site, landscaping and grading plans.
4. The building design, construction materials and orientation on the site must comply with the conceptual site plan and building elevations must be presented with this application. Any deviation from these plans may result in reconsideration of the project by the reviewing boards.
5. This project will undergo final TRC approval prior to the issuance of any required permits.
6. Signs directing people to and from the Project shall be configured so that vehicles use the eastern or Tunnel Rd. end of Azalea Road to access the Project.
7. The operation shall be "in-vessel" compost process only.

According to the Table of Uses in Sec. 7-8-1 of the *Unified Development Ordinance,* composting operations are a permitted use in CI.

Sincerely,

Patti McFarland

Patti McFarland, MPA
Administrative Assistant
Attachments


504 AZALEA RD E
498 AZALEA RD E
498 AZALEA RD E
492 AZALEA RD E
512 AZALEA RD E
1579 OTEEN CHURCH RD
120 AZALEA RD E
480 AZALEA RD E
395 AZALEA RD E
395 AZALEA RD E
400 AZALEA RD E
398 AZALEA RD E
80 HARDESTY LN
120 HARDESTY LN
AZALEA RD E
HARDESTY LN
SAMS DR
RM8
RS2
RS4
RS4
Asheville
Floodway
Zone AE
Panel # 9668
500-Year Floodplain Boundary
IND-CZ
NOT ZONED
Norfolk Southern
I40 W
I40 E
I240 W AND I240 E TO I40 E
HEMPHILL KNOB RD
BLUE RIDGE PKWY
BLUE RIDGE PKWY
Panel # 9667
9668335729
9668338776
9668434556
9668331570
9668235458
9668424979
9668322769
9668123880
9668124513
9668328361
9668329284
9668220260
9668319966
9668113684
9668113481
9668114303
9668113286
9668106849
9667298743
9668408179

ORDINANCE NO. 4108

ORDINANCE ESTABLISHING CONDITIONAL ZONING FOR PROPERTY LOCATED AT 120 HARDESTY LANE (FORMERLY 80 HARDESTY LANE)

WHEREAS, the City of Asheville has the authority pursuant to Part 3 of Article 19 of Chapter 160A of the North Carolina General Statues, to adopt zoning regulations, to establish zoning districts and to classify property within its jurisdiction according to zoning district, and may amend said regulations and district classifications from time to time in the interest of the public health, safety and welfare; and

WHEREAS, a comprehensive amendment to the City's zoning regulations was adopted on May 27, 1997, (Ordinance No. 2369) and is codified in Chapter 7 of the Asheville City Code (herein "Zoning Ordinance"), and maps dividing and classifying the property within the City's zoning jurisdiction were adopted on May 27, 1997 (Ordinance No. 2370) and are on file and maintained in the Offices of the Asheville City Planning and Development Department (herein "Official Zoning Map"); and

WHEREAS, this proposed amendment is consistent with the City's 2025 Comprehensive Plan, Smart Growth policies, and other official plans of the City for the reasons set out in the Staff Report, which is hereby adopted and incorporated by reference; and

WHEREAS, this proposed ordinance is determined to be reasonable and in the public interest as follows: (a) meets Council goals related to promoting ways to reduce city-wide solid waste; and (b) provides for the use of currently unused City owned property that is compatible with other uses on that property.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF ASHEVILLE THAT:

Section 1. The Official Zoning Map be, and the same is hereby, amended as follows:

> The zoning classification of that certain real property described in Exhibit A and identified on Buncombe County tax maps as a portion of PIN 9668.31-9966 (addressed 120 Hardesty Lane) from RS-2 (Residential Single-Family Low Density) district to IND-CZ (Industrial Conditional Zoning) district. A copy of the official zoning map showing said lots is attached hereto as Exhibit "A" and made a part hereof. Said rezoning is subject to the conditions set out in Exhibit "B", attached hereto and made a part hereof.

Section 2. That the Office of the Zoning Administrator is hereby authorized and directed to make the changes as herein before enacted in said zoning map.

Section 3. That if any section, subsection, sentence, clause, or phrase of this ordinance is, for any reason, held to be invalid, such decision shall not affect the validity of the remaining portions of this ordinance. The City Council hereby declared that it would have passed this ordinance, and each section, subsection, sentence, clause, or phrase thereof irrespective of the fact that any one or more sections, subsections, sentences, clauses, or phrases be declared invalid.

Section 4. This ordinance shall be enforced as provided in Article XVIII of Chapter 7, and Sec. 1-5 of the Asheville City Code.

Section 5. That all ordinances and clauses of ordinances in conflict herewith be and are hereby repealed, to the extent of such conflict.

Section 6. That this ordinance shall be in full force and effect on the date of adoption.

Read, approved and adopted the 14th day of August, 2012.

Magdalen Burleson
City Clerk

Mayor

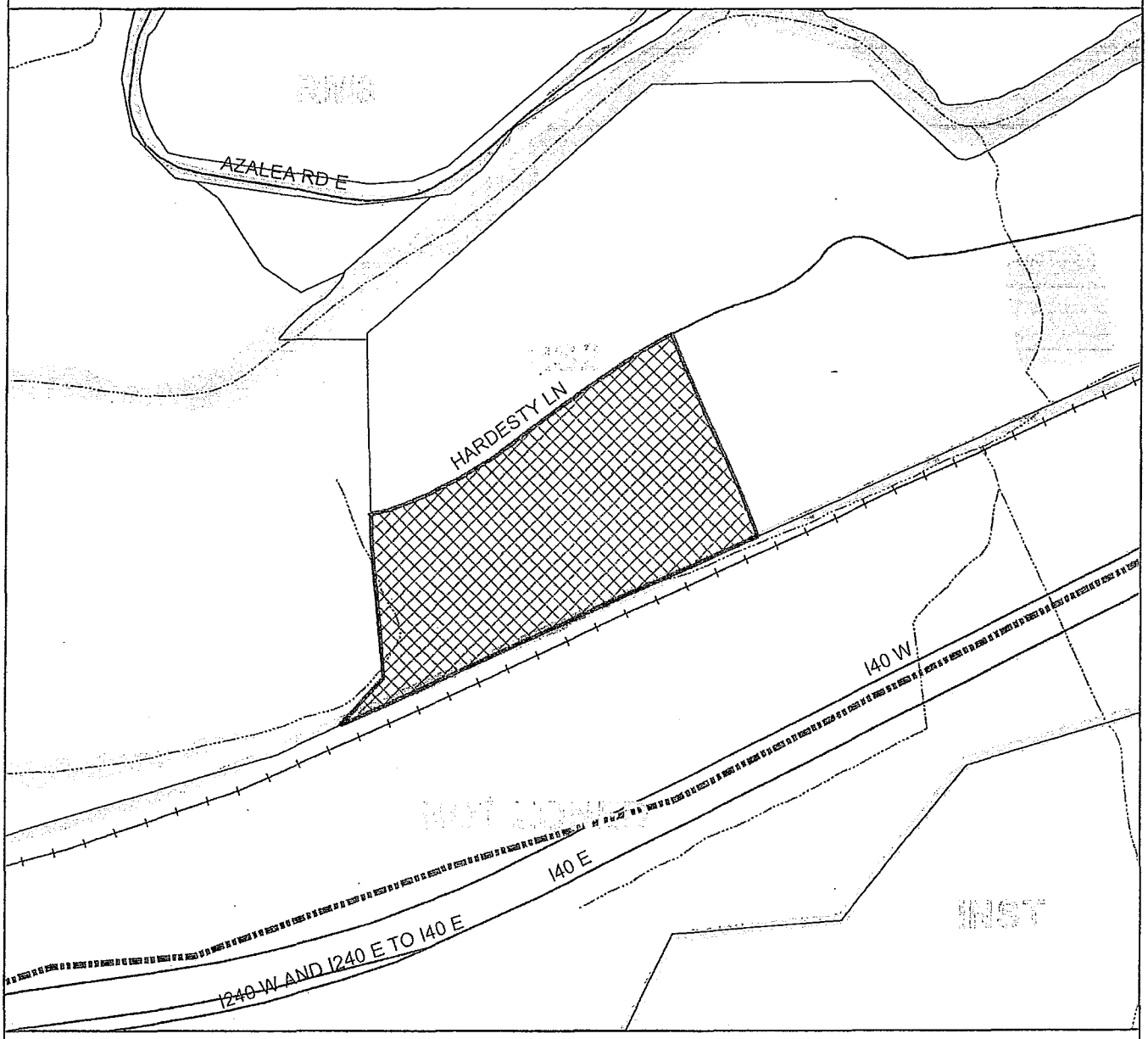
Approved as to form:

City Attorney

City of Asheville - Exhibit A Map
Conditional Zoning Application

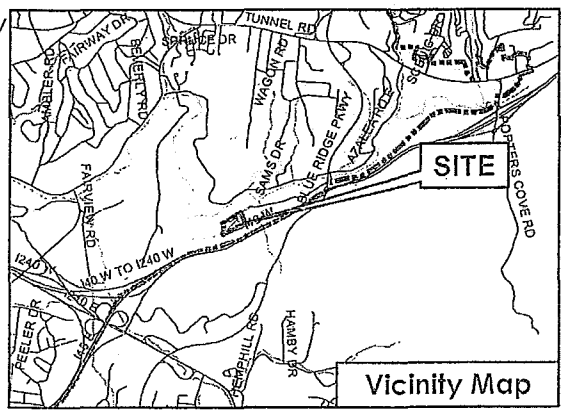
ASHEVILLE

N W E S



Project Name: Danny's Dumpster Compost Facility
Project Number: CZ 12-51-003
Project Description: RS2 to Industrial CZ
Petitioner(s): Danny Keaton
Parcel ID Number(s): Portion of 9668.31-9966

Location/Address: 80 Hardesty Lane



Project Site
Parcels
Zoning Districts
Asheville City Limits
Streets
Streams

City of Asheville Planning and Development Department - 6/26/2012

EXHIBIT B
CONDITIONS

1. The Project shall comply with all conditions outlined in the TRC staff report.

2. All site lighting must comply with the City's Lighting Ordinance and be equipped with full cut-off fixtures and directed away from adjoining properties and streets. A detailed lighting plan will be required upon submittal of detailed plans to be reviewed by the Technical Review Committee.

3. All existing vegetation that is to be preserved must be clearly indicated and dimensioned on the site, landscape and grading plans.

4. The building design, construction materials and orientation on the site must comply with the conceptual site plan and building elevations presented with this application. Any deviation from these plans may result in reconsideration of the project by the reviewing boards.

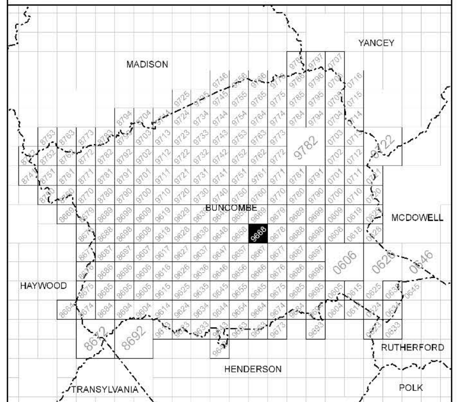
5. This Project will undergo final review by the TRC prior to issuance of any required permits.

6. Signs directing vehicles to and from the Project shall be configured so that vehicles use the eastern or Tunnel Road end of Azalea Road to access the Project.

7. The operation shall be an "in-vessel" compost process only.

APPENDIX D
Flood Insurance Rate Map

STATE OF NORTH CAROLINA FIRM PANEL LOCATOR DIAGRAM



DATUM INFORMATION

The **projection** used in the preparation of this map was the North Carolina State Plane (FIPSZONE 3200). The **horizontal datum** was the North American Datum of 1983, GRS80 ellipsoid. Differences in datum, ellipsoid, projection, or Universal Transverse Mercator zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdictional boundaries. These differences do not affect the accuracy of this FIRM. All coordinates on this map are in U.S. Survey Feet, where 1 U.S. Survey Foot = 1200/3937 Meters.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988 (NAVD 88). These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. An average offset between NAVD 88 and the National Geodetic Vertical Datum of 1929 (NGVD 29) has been computed for each North Carolina county. This offset was then applied to the NGVD 29 flood elevations that were not revised during the creation of this statewide format FIRM. The offsets for each county shown on this FIRM panel are shown in the vertical datum offset table below. Where a county boundary and a flooding source with unrevised NGVD 29 flood elevations are coincident, an individual offset has been calculated and applied during the creation of this statewide format FIRM. See Section 6.1 of the accompanying Flood Insurance Study report to obtain further information on the conversion of elevations between NAVD 88 and NGVD 29. To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the North Carolina Geodetic Survey at the address shown below. You may also contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242**, or visit its website at http://www.ngs.noaa.gov.

North Carolina Geodetic Survey
121 West Jones Street
Raleigh, NC 27601
(919) 733-3836
http://www.ncgs.state.nc.us

County Average Vertical Datum Offset Table

County	Vertical Datum Offset (ft)
Buncombe	-0.16
Example: NAVD 88 = NGVD 29 + (-0.16)	

All streams listed in the **Flood Hazard Data Table** below were studied by detailed methods using field survey. Other flood hazard data shown on this map may have been derived using either a coastal analysis or limited detailed riverine analysis. More information on the flooding sources studied by these analyses is contained in the Flood Insurance Study report.

FLOOD HAZARD DATA TABLE

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance (100-year) Water-Surface Elevation (feet NAVD 88)	Floodway Width (feet): Left/Right Distance From The Center of Stream to Encroachment Boundary (Looking Downstream) or Total Floodway Width
GRASSY BRANCH				
001	72[1]	1,850	2,056.4[4]	45 / 28
002	217[1]	1,850	2,056.5[4]	62 / 55
011	1,134[1]	1,850	2,056.9[2]	59 / 24
016	1,614[1]	1,850	2,060.2	38 / 43
018	1,818[1]	1,850	2,060.3	17 / 56
020	1,962[1]	1,850	2,064.2	18 / 73
026	2,613[1]	1,720	2,066.4	15 / 28
029	2,911[1]	1,720	2,069.7	31 / 34
032	3,177[1]	1,720	2,076.2	21 / 71
034	3,393[1]	1,720	2,076.5	21 / 38
039	3,904[1]	1,720	2,083.2	13 / 12
049	4,925[1]	1,720	2,093.2	15 / 80
053	5,271[1]	1,490	2,099.1	16 / 16
055	5,513[1]	1,490	2,100.3	16 / 16
059	5,922[1]	1,490	2,104.7	22 / 28
060	5,994[1]	1,490	2,107.0	43 / 32
061	6,064[1]	1,490	2,107.1	21 / 89
SWANNANOA RIVER				
254	25,402[3]	19,560	2,025.3	55 / 524
264	26,365[3]	19,560	2,026.6	53 / 54
271	27,093[3]	19,560	2,029.8	51 / 51
278	27,771[3]	19,540	2,033.0	86 / 83
280	27,995[3]	19,540	2,048.0	82 / 101
288	28,830[3]	19,540	2,048.4	131 / 135
303	30,329[3]	19,540	2,049.0	133 / 344
314	31,390[3]	19,540	2,049.1	112 / 516
328	32,791[3]	19,540	2,049.3	169 / 401
337	33,706[3]	19,540	2,050.0	46 / 56
349	34,911[3]	19,530	2,053.2	381 / 391
357	35,696[3]	19,530	2,053.2	246 / 354
366	36,576[3]	19,520	2,053.4	59 / 311
375	37,540[3]	19,520	2,054.1	47 / 271
385	38,522[3]	19,510	2,054.8	182 / 55
392	39,195[3]	19,510	2,055.9	280 / 49
393	39,268[3]	19,510	2,056.2	270 / 48

See FIS Report for Remaining Cross Sections

[1] Feet above confluence with Swannanoa River
[2] Elevation includes backwater effects from Swannanoa River
[3] Feet above confluence with French Broad River
[4] Elevation includes flooding controlled by effects from Swannanoa River

NORTH CAROLINA Cooperating Technical State — FEMA'S COOPERATING TECHNICAL PARTNER

This digital Flood Insurance Rate Map (FIRM) was produced through a unique cooperative partnership between the State of North Carolina and the Federal Emergency Agency (FEMA). The State of North Carolina has implemented a long term approach of floodplain management to decrease the costs associated with flooding. This is demonstrated by the State's commitment to map floodplain areas at the local level. As a part of this effort, the State of North Carolina has joined in a Cooperating Technical State agreement with FEMA to produce and maintain this digital FIRM.

www.ncfloodmaps.com

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles, Floodway Data, Limited Detailed Flood Hazard Data, and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Boundaries of **regulatory floodways** shown on the FIRM for flooding sources studied by detailed methods were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data for flooding sources studied by detailed methods as well as **non-encroachment widths** for flooding sources studied by limited detailed methods are provided in the FIS report for this jurisdiction. The FIS report also provides instructions for determining a floodway using non-encroachment widths for flooding sources studied by limited detailed methods.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 4.4 "Flood Protection Measures" of the Flood Insurance Study report for information on the flood control structures in this jurisdiction.

Base map information and geospatial data used to develop this FIRM were obtained from various organizations, including the participating local community(ies), state and federal agencies, and/or other sources. The primary base for this FIRM is aerial imagery acquired by Buncombe County. The time period of collection for the Buncombe imagery is 2002. Information and geospatial data supplied by the local community(ies) that met FEMA base map specifications were considered the preferred source for development of the base map. See geospatial metadata for the associated digital FIRM for additional information about base map preparation.

Base map features shown on this map, such as **corporate limits**, are based on the most up-to-date data available at the time of publication. **Changes in the corporate limits may have occurred since this map was published**. Map users should consult the appropriate community official or website to verify current conditions of jurisdictional boundaries and base map features. This map may contain roads that were not considered in the hydraulic analysis of streams where no new hydraulic model was created during the production of this statewide format FIRM.

This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels, community map repository addresses, and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

If you have **questions about this map**, or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov.

An accompanying Flood Insurance Study report, Letter of Map Revision (LOMR) or Letter of Map Amendment (LOMA) revising portions of this panel, and digital versions of this FIRM may be available. Visit the **North Carolina Floodplain Mapping Program** website at http://www.ncfloodmaps.com, or contact the **FEMA Map Service Center** at 1-800-358-9616 for information on all related products associated with this FIRM. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at http://www.msc.fema.gov.

MAP REPOSITORY

Refer to listing of Map Repositories on Map Index or visit http://www.ncfloodmaps.com.

EFFECTIVE DATE OF FLOOD INSURANCE RATE MAP PANEL

JANUARY 6, 2010

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to statewide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent, the North Carolina Division of Emergency Management or the National Flood Insurance Program at the following phone numbers or websites:

NC Division of Emergency Management
(919) 715-8000 http://www.nccrimecontrol.org/nfip

National Flood Insurance Program
1-800-638-6620 http://www.fema.gov/business/nfip

LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.
ZONE AE Base Flood Elevations determined.
ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99 Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary
0.2% annual chance floodplain boundary
Floodway boundary
Zone D boundary
CBRS and OPA boundary
Boundary dividing Special Flood Hazard Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
~~ 513 ~~ Base Flood Elevation line and value; elevation in feet*
(EL 987) Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

012 Cross section line
23 — 23 Transect line
97°07'30", 32°22'30" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
4276 000 M 1000-meter Universal Transverse Mercator grid ticks, zone 17
1 477 500 FEET 2500-foot grid values: North Carolina State Plane coordinate system (FIPSZONE 3200, State Plane NAD 83 feet)
BM5510 North Carolina Geodetic Survey bench mark (for more information Visit http://www.ncgs.state.nc.us).
BM5510 National Geodetic Survey bench mark (for more information visit http://www.ngs.noaa.gov).
BM5510 NGS-58 GPS 2-5 cm Vertical Control Marks or Contractor-Established NCFMP Bench Marks (for more information visit http://www.ncgs.state.nc.us)
• M1.5 River Mile

GRID NORTH

MAP SCALE 1" = 500' (1 : 6,000)

250 0 500 1000 FEET
150 0 150 300 METERS

NFIP — NATIONAL FLOOD INSURANCE PROGRAM

PANEL 9668J

FIRM
FLOOD INSURANCE RATE MAP
NORTH CAROLINA

PANEL 9668

(SEE LOCATOR DIAGRAM OR MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	CID No.	PANEL	SUFFIX
ASHEVILLE, CITY OF	370032	9668	J
BUNCOMBE COUNTY	370031	9668	J

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

EFFECTIVE DATE
JANUARY 6, 2010

MAP NUMBER
3700966800J

State of North Carolina
Federal Emergency Management Agency

APPENDIX E
LRM Report of Findings Soil Scientist Evaluation

Land Resource Management
3 Lockhart Lane, Swannanoa, NC 28778
828.231.1663 www.landrm.com

March 14, 2014

Danny's Dumpsters
120 Hardesty Lane
Asheville, NC 28805

Attention: Danny Keaton

Regarding: Report of Findings
Soils Evaluation
LRM Project # 30389

Dear Mr. Keaton:

Land Resource Management (LRM) conducted a soil investigation at Danny's Dumsters composting site located at the Buncombe County Beneficial Use Landfill. The purpose of the soil study was to determine if a Seasonal High Water Table (SHWT) existed in area the area being utilized for composting.

On March 11th, 2014, Walker B. Ferguson of LRM conducted two detailed soils descriptions of test pits excavated by Mr. Keaton. .

Based on the soils observed during the site visit, LRM has determined that no SHWT exists within four feet of the surface. Each test pit evaluated contained different layers of fill material ranging from clayey to gravel. No indication of an active SHWT was observed in either of the test pits.

Thank you for the opportunity to provide you with soils data and interpretation. Please call me if you have questions regarding this report.

Sincerely,

Walker Ferguson, LSS
President, Land Resource Management, LLC

LICENSED SOIL SCIENTIST
WALKER BOONE FERGUSON
1289
STATE OF NORTH CAROLINA

APPENDIX F
2015 Temperature Records

Temperature Records 2015

2015 January	Bin 1	Bin 2	Bin 3
1		134	124
2		142	132
3			
4			
5		148	134
6	118*	154	134
7			
8	126	154*	144
9	128		148
10			
11			
12	134		148
13	138		152*
14			
15	138	122*	
16	140	126	
17			
18			
19	140	130	
20	140	132	118*
21			
22	146	134	122
23	144*	136	124
24			
25			
26		138	128
27		138	134
28			
29		148	136
30		152	138
31			
2015 February			
1			
2	122	158*	140
3	122		140
4			
5	124		140
6	124		142
7			
8			
9	126	120*	148*
10	126	122	
11			
12	128	124	
13	138	126	

Temperature Records 2015

2015 February	Bin 1	Bin 2	Bin 3
14			
15			
16	146	130	122*
17	148	130	124
18			
19	152*	130	126
20		138	128
21			
22			
23		144	136
24		148	138
25			
26	122*	148*	144
27	126		146
28			
2015 March			
1			
2	136		152
3	134	124*	152*
4			
5	144	126	
6	148	130	
7			
8			
9	154	134	
10	156	136	122*
11			
12	158*	140	126
13		142	128
14			
15			
16		150	140
17		152	140
18			
19	120*	154	144
20	126	154*	146
21			
22			
23	134		154
24	136		156
25			
26	148		160*
27	150	118*	
28			
29			

Temperature Records 2015

2015 March	Bin 1	Bin 2	Bin 3
30	156	124	
31	152	130	118*
2015 April			
1			
2	158*	136	126
3		134	130
4			
5			
6		146	134
7	120*	146	136
8			
9	124	148*	142
10	130		146
11			
12			
13	138		150
14	140	120*	156*
15			
16	146	124	
17	148	128	
18			
19			
20	156	138	120*
21	162*	142	126
22			
23		150	130
24		154	140
25			
26			
27		162	148
28	120*	164*	150
29			
30	124		156
2015 May			
1	128		158
2			
3			
4	138	126*	164
5	142	130	168*
6			
7	148	132	
8	156	136	
9			
10			

Temperature Records 2015

2015 May	Bin 1	Bin 2	Bin 3
11	160	146	120*
12	160*	150	124
13			
14		152	132
15		160	138
16			
17			
18	124*	164	146
19	128	168*	148
20			
21	134		152
22	138		154
23			
24			
25	148	120*	160
26	152	124	164*
27			
28	158	136	
29	160	136	
30			
31			
2015 June			
1	166	146	124*
2	168*	148	128
3			
4		158	136
5		160	136
6			
7			
8	124*	164	148
9	128	166*	150
10			
11	136		156
12	140		158
13			
14			
15	146	120*	162
16	150	124	162*
17			
18	156	148	
19	158	152	
20			
21			
22	160	160	140*
23	164	160	142

Temperature Records 2015

2015 June	Bin 1	Bin 2	Bin 3
24			
25	166*	162	146
26		164	150
27			
28			
29		166	154
30		168*	158
2015 July			
1			
2	140*		160
3	146		162
4			
5			
6	150		168
7	154	128*	170*
8			
9	154	136	
10	156	148	
11			
12			
13	164	152	
14	166	152	
15			
16	168	164	132*
17	170*	164	136
18			
19			
20		166	144
21		168	146
22			
23	130*	168*	150
24	132		152
25			
26			
27	138		156
28	138		158
29			
30	142	136*	158
31	146	138	158*
2015 August			
1			
2			
3	150	140	
4	152	140	

Temperature Records 2015

2015 August	Bin 1	Bin 2	Bin 3
5			
6	152	144	
7	154*	146	
8			
9			
10		148	136*
11		148	138
12			
13		154	142
14	136*	156*	144
15			
16			
17	138		150
18	142		152
19			
20	146		156
21	148	136*	156
22			
23			
24	152	138	156*
25	156	146	
26			
27	158	152	
28	158	154	120*
29			
30			
31	158*	155	124
2015 September			
1		158	126
2	x	x	x
3		158	128
4	118*	158*	132
5	x	x	x
6	x	x	x
7	124		140
8	126	120*	140
9	x	x	x
10	130	126	146
11	134	128	146*
12	x	x	x
13	x	x	x
14	140	134	
15	142	136	118*
16	x	x	x
17	146*	138	124

Temperature Records 2015

2015 September	Bin 1	Bin 2	Bin 3
18		140	124
19	x	x	x
20	x	x	x
21		142	130
22	122*	144*	132
23	x	x	x
24	126		134
25	130		138
26	x	x	x
27	x	x	x
28	134	118*	142
29	136	124	146*
30	x	x	x
2015 October	Bin 1	Bin 2	Bin 3
1	140	128	
2	142	130	
3	x	x	x
4	x	x	x
5	146	140	122*
6	148*	142	126
7	x	x	x
8		144	130
9		144	132
10	x	x	x
11	x	x	x
12	122*	148*	138
13	126		142
14	x	x	x
15	130		142
16	130	118*	142
17	x	x	x
18	x	x	x
19	138	126	148*
20	140	128	
21	x	x	x
22	142	128	
23	144	130	118*
24	x	x	x
25	x	x	x
26	146*	138	128
27		140	132
28	x	x	x
29		142*	134
30			136
31	x	x	x

Temperature Records 2015

2015 November	Bin 1	Bin 2	Bin 3
1	x	x	x
2	124*	118*	146
3	126	120	146
4	x	x	x
5	130	124	146*
6	130	130	
7	x	x	xx
8	x	x	x
9	134	138	118*
10	134	140	124
11	x	x	x
12	140	140	126
13	142	140	130
14	x	x	x
15	x	x	x
16	144*	144	136
17		146*	136
18	x	x	x
19			136
20			140
21	x	x	x
22	x	x	x
23	120*		146*
24	122		
25	x	x	x
26	132	124*	
27	136	126	120*
28	x	x	x
29	x	x	x
30	140	130	126
2015 December	**Bin 1**	**Bin 2**	**Bin 3**
1	140	132	130
2	x	x	x
3	144	136	136
4	142	136	136
5	x	x	x
6	x	x	x
7	142*	140	142
8		142	146
9	x	x	x
10		146*	148*
11	118*		
12	x	x	x
13	x	x	x
14	126	118*	

Temperature Records 2015

2015 December	Bin 1	Bin 2	Bin 3
15	130	124	
16	x	x	x
17	132	130	120*
18	138	130	122
19	x	x	x
20	x	x	x
21	140	134	130
22	142	136	132
23	x	x	x
24	142	140	132
25	142*	140	132
26	x	x	x
27	x	x	x
28		148*	140
29			144
30	x	x	x
31	118*		144*