

Permit No.	Date	Document ID No.
34-XX	June 23, 2009	7788

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June 17, 2009

Solid Waste Section

Asheville Regional Office

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May 22, 2009

Division of Air Quality

Mooresville Regional Office

**C&D Treatment and Processing
Permit Application**

Abbey Green Recycling Center

5030 Overdale Road

Winston-Salem, North Carolina

Kleinfelder Project No. 102111

APPROVED DOCUMENT

Division of Waste Management

Solid Waste Section

Date **November 2, 2010** By **LY Frost**

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ONLY THE CLIENT OR ITS DESIGNATED REPRESENTATIVES MAY USE THIS DOCUMENT AND ONLY FOR THE SPECIFIC PROJECT FOR WHICH THIS REPORT WAS PREPARED.



May 14, 2009

Mr. John Murray, P.E.
NCDENR
DWM – Solid Waste Section
Mooresville Regional Office
610 East Center Avenue, Suite 301
Mooresville, North Carolina 28115

RE: C&D Treatment and Processing Permit Application
Abbey Green Recycling Center
5030 Overdale Road
Winston-Salem, North Carolina
Kleinfelder Project No. 102111

Dear Mr. Murray:

On behalf of Abbey Green, Inc., Kleinfelder is submitting five (5) copies of the C&D Treatment and Processing Permit Application for the above-referenced project. This report has been prepared based upon Section .0300 of the Solid Waste Management Rules.

Should you have any questions or require clarification, please contact Chris Hay at 336.668.0093 or chay@kleinfelder.com.

Very truly yours,

KLEINFELDER SOUTHEAST, INC.

A handwritten signature in cursive script, appearing to read "Gail Licayan".

Gail G. Licayan, P.E.
Project Professional

A handwritten signature in cursive script, appearing to read "Chris Hay".

Christopher W. Hay, E.I.
Environmental Group Manager

GGL/CWH:cas

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1.0 INTRODUCTION

1.1 Purpose

Kleinfelder is providing this application and accompanying documents in order to present to the North Carolina Department of Environment and Natural Resources (NCDENR) Division of Waste Management (DWM) Solid Waste Section, the required information for review and approval for a Construction and Demolition (C&D) Treatment and Processing Permit for Abbey Green Recycling Center. The proposed recovery and recycling center will be located at 5030 Overdale Road in Winston-Salem, North Carolina.

Information provided in this application covers the permit application requirements of siting, design, and operation of the recovery and recycling center as required by the North Carolina Solid Waste Management Rules (15A NCAC 13B .0301-.0302 and .0401-.0402).

1.2 C&D Recovery and Recycling Center

The site to be utilized as a C&D recovery and recycling center is located on Overdale Road in Winston-Salem, North Carolina (Figures 1 and 2). The site encompasses approximately 20 acres and consists of four parcels as shown on Figure 3. The properties are owned by Dogwood Development & Management Co. The proposed operator of the site is Abbey Green, Inc. A letter from the landowner indicating approval for the proposed use by Abbey Green, Inc. is provided in Appendix A with the property deeds.

On October 24, 2008, the Winston-Salem/Forsyth County Inspections Division approved the subject site for a recycling plant and issued Permit #132450. A copy of the permit is included in Appendix B.

All correspondence and questions concerning the operation of the Abbey Green Recycling Center should be directed to Mr. Jim Bryan.

Mr. Jim Bryan, Abbey Green, Inc. (Operator)

4400 Silas Creek Parkway | Suite 301

Winston-Salem, North Carolina 27104

Phone: 336.345.7793

Email: jbryanlj@gmail.com

2.0 SITING CRITERIA

The proposed site location and development plans are in general accordance with the Solid Waste Section's siting criteria. The following sections provide details of the site characteristics and findings from investigation of the site.

2.1 Floodplain Evaluation

Facilities or practices shall not be located in the 100-year floodplain. Based on the FEMA Community Panel Nos. 375349 0286 H and 0288 H, the site is not located within a 100-year floodplain. A copy of the panels is provided as Figure 4.

2.2 Endangered or Threatened Species and Critical Habitat Investigation

The purpose of the endangered species survey was to identify potential habitat and individual endangered species within the project area. A total of 62 endangered, threatened, or federal species of concern have been identified by the U.S. Fish and Wildlife Service within North Carolina. However, based on information provided by the North Carolina Natural Heritage Program, only six (6) endangered, threatened, species of concern, or significantly rare species have been identified to potentially exist within the area of the Winston-Salem East USGS Quadrangle. The focus of our endangered species survey was those species identified by the Natural Heritage Program. The following table lists the species identified by the Natural Heritage Program.

Protected Species Identified by the North Carolina Natural Heritage Program within the Winston-Salem East USGS Quadrangle

COMMON NAME	SCIENTIFIC NAME	STATE STATUS	MAJOR GROUP
Drummon Moss	<i>Orthotrichum strangulatum</i>	Significantly Rare	Nonvascular Plant
Spherical Bulb Nodding Moss	<i>Pohlia lescuriana</i>	Significantly Rare	Nonvascular Plant
Granite Flatsedge	<i>Cyperus granitophilus</i>	Significantly Rare	Vascular Plant
Appalachian Goldenbanner	<i>Thermopsis mollis</i>	Significantly Rare	Vascular Plant

COMMON NAME	SCIENTIFIC NAME	STATE STATUS	MAJOR GROUP
Bog Turtle	<i>Glyptemys muhlenbergii</i>	Threatened	Vertebrate Animal
Eastern Small-footed Myotis	<i>Myotis leibii</i>	Special Concern	Vertebrate Animal

Prior to the field reconnaissance, detailed descriptions of each protected species suspected within the project area were obtained from various sources and reviewed. Research was conducted into the preferred habitat and documented populations of individual species. Subsequently, the property was traversed by foot to observe the existing conditions and types of habitat within the property boundaries. Potential habitat was observed for the protected species identified by the NHP within or adjacent to the property. However, the species were not observed and due to the disturbed nature of the site, were determined unlikely to be present. Pertinent information and observations from our field reconnaissance are summarized below.

Nonvascular Plants

The drummond moss (*Orthotrichum strangulatum*) is listed as a protected species historically occurring locally. This moss is exclusively found on dry, exposed, calcareous or dolomitic bluffs and rock faces. While rock faces were observed onsite, they were not calcareous or dolomitic in nature.

The spherical bulb nodding moss (*Pohlia lescuriana*) is listed as a protected species historically occurring locally and currently located in adjacent counties. This moss is found on wet, non-calcareous soil in open areas. Although suitable habitat may be present at the site, spherical bulb nodding moss was not observed during our field reconnaissance. In addition, the wet areas will not be disturbed by the proposed facility.

Vascular Plants

The granite flatsedge (*Cyperus granitophilus*) is listed as a protected species historically occurring locally. This flatsedge is found on granite flatrocks and other rock outcrops. Although suitable habitat may be present at the site, granite flatsedge was not observed during our field reconnaissance.

The Appalachian goldenbanner is listed as a protected species historically occurring locally and currently located in adjacent counties. This goldenbanner is found on dry ridges and open woodlands. Although suitable habitat may be present at the site, Appalachian goldenbanner was not observed during our field reconnaissance.

Vertebrate Animals

The bog turtle (*Glyptemys muhlenbergii*) is listed as a protected species historically occurring locally and currently located in adjacent counties. This turtle is found in bogs, wet pastures, and wet thickets. Although suitable habitat may be present at the site, no bog turtles were observed during our field reconnaissance. In addition, the wet areas will not be disturbed by the proposed facility.

The eastern small-footed myotis (*Myotis leibii*) is listed as a protected species currently occurring locally. This bat roosts in hollow trees in warm months and in caves and mines in the winter. Although suitable warm weather habitat may be present at the site, no bats or signs of their roosts were observed during our field reconnaissance.

Kleinfelder submitted data about the property location to the Natural Heritage Program (NHP). The NHP has no record of rare species, significant natural communities, or priority natural areas at or within one mile of the project area. There is one conservation/managed area approximately 0.22 mile northeast of the site, Weston Park, which is owned and administered by the City of Winston-Salem. No impacts to this park are expected from the project. A letter regarding this determination is provided in Appendix C.

2.3 Archeological or Historical Sites

Information on archeological and/or historical sites was requested from the State Historic Preservation Office (SHPO). SHPO responded that their records did not show any archeological sites or sites of historical significance located within the project area. A copy of this response letter is contained in Appendix D.

2.4 Wetlands and Streams Investigation

The methodology used to identify areas suspected of having conditions to support wetlands included walking the property to observe existing vegetation, soil characteristics, and hydrology. Wetlands are defined by the U.S. Army Corps of Engineers (USACE) and the United States Environmental Protection Agency as “those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and under normal circumstances, do support a prevalence of vegetation typically adapted for life in saturated soil conditions.” In order for an area to be classified as wetlands, hydrophytic vegetation, hydric soils, and wetlands hydrology indicators must be present. The methodology used to determine the presence or absence of wetlands at the site was in general accordance with those described in the 1987 Corps of Engineers Wetland Delineation Manual. Streams were identified in accordance with the North Carolina Division of Water Quality's Identification Methods for the Origins of Intermittent and Perennial Streams.

Wetlands were observed at the site adjacent to the stream along the northernmost parcel. Wetlands were located to the east of the cut slope between the sewer line and the stream. Based on the site Plan (Figure 5), this area is not within the proposed development. No other conditions supporting wetlands were observed within the property limits during our site visit.

One stream was identified at the site during our field reconnaissance. The location of the stream is shown on the USGS map (Figure 6). The stream makes up the eastern property boundary in the northern portion of the site, it transverses a narrow portion of the site through an existing culvert, and it makes up the western property boundary in the southern portion of the site. The stream is an unnamed tributary to South Fork Muddy Creek, which originates at the ponds located northeast and adjacent to the site.

A 50-foot buffer is maintained between the waste boundaries and all surface waters. In addition, appropriate erosion and sediment control measures should prevent impacts to the surface waters.

Kleinfelder submitted data about the property location to Mr. John Thomas of the USACE. Mr. Thomas is currently reviewing the site plans. Based on

Kleinfelder's survey for wetlands and streams at the site and our review of the development plans, the proposed construction limits are outside jurisdictional waters. Email correspondence with Mr. Thomas is provided in Appendix E.

2.5 State Parks or Recreation Areas

There are no local parks or recreational facilities surrounding the subject facility. As stated in Section 2.2, there is one conservation/managed area approximately 0.22 mile northeast of the site, Weston Park, which is owned and administered by the City of Winston-Salem. No impacts to this park are expected from the project. A letter regarding this determination is provided in Appendix C.

2.6 Siting Requirements Summary

The subject site is suitable for the proposed C&D transfer station and recycling center as it meets the siting requirements of the North Carolina Solid Waste Management Rules as evidenced by:

- 1) The site development will not occur within a 100-year floodplain.
- 2) Siting of the proposed facility does not cause or contribute to the taking of any known endangered or threatened species of plants, fish, or wildlife. Nor does it result in the destruction or modification of critical habitat for any known endangered or threatened species.
- 3) The site does not contain any known archeological or historical sites, nor will it cause adverse impact to any state parks, recreation, or designated scenic areas located within the immediate vicinity of the site.
- 4) Waste will be placed a minimum of 12 inches above the seasonal high water table.
- 5) Sedimentation and erosion control features have been designed and approved by Winston-Salem/Forsyth County.
- 6) Minimum buffers of 50 feet will be maintained between waste boundaries and all surface waters and property lines. Minimum buffers of 200 feet will be maintained between the treatment and processing area to residential dwellings and commercial or public buildings. Minimum buffers of 100 feet will be maintained between the waste boundary and any water supply wells.

- 7) The site shall have controlled access at the main gate on Overdale Road to limit unauthorized public access.
- 8) The site will be designed and operated in accordance with Section 401 and 404 of the Clean Water Act.
- 9) The operation at the site will not engage in open burning of wastes.

3.0 APPLICATION REQUIREMENTS

3.1 Summary of Geological/Hydrogeological Investigation

The subject site consists of 22 acres of partially wooded, rolling terrain located on Overdale Road in southern Forsyth County. Site topography consists of a general downward slope toward the stream along the property boundaries. A copy of a portion of the USGS 7.5-minute topographic map, Winston-Salem East quadrangle with the location of the proposed facility outlined is included as Figure 6.

3.1.1 Subsurface Exploration Procedures

Hand auger borings were performed within the proposed project limits to ensure that waste materials will maintain a minimum of 12 inches of separation from seasonal high groundwater levels. The hand auger boring locations are shown on Figure 3. Borings HA-1 through HA-6 were advanced to refusal at depths between 0.4 and 4 feet below the ground surface. Refusal is interpreted to be at the bedrock since rock outcrops were observed throughout the site. Hydric soil indicators were not observed within borings HA-1 through HA-6. Boring HA-7 was advanced to 15 feet below the ground surface where saturated soil was observed. Hydric soil indicators were observed in HA-7 at an approximate depth of 14 feet below ground surface.

Some fluctuation in groundwater levels can occur with climatic and seasonal variations, with the highest groundwater levels expected in late winter and early spring. However, a rise in groundwater elevation greater than fourteen feet in a shallow unconfined aquifer would be highly unlikely. Based on the site plan, fill will be placed to level the tipping floor. The depth of fill will be between 4 feet at the east side of the tipping floor adjacent to the entrance drive and 24 feet at the west side of the tipping floor. Based on this information, we estimate the separation from the tipping floor to the seasonal high water table to be between 18 and 38 feet.

3.1.2 Regional Geology

The site is located in the Charlotte Belt of the Piedmont Physiographic Province of North Carolina. Bedrock in the Charlotte Belt generally consists of metamorphosed sediments and volcanics and igneous intrusives. The Geologic Map of North Carolina indicates the site is located in an area underlain by granitic rock.

3.1.3 Site Geology

Soils observed within the hand auger borings consisted of silty sand and sandy silt with varying amounts of mica to depths up to 15 feet below the ground surface. Soil texture was consistent throughout the borings completed at the site. Bedrock outcrops were observed between Overdale Road and the stream to the north and encountered in hand auger borings at depths up to 4 feet below the ground surface.

3.2 Aerial Photograph

An aerial photograph which depicts the area within 1,000 feet of the site is provided as Figure 7.

3.3 Development and Design Plans and Details

The area proposed for development is shown on the Site Plan (Figure 5) with the current and anticipated final contours. An existing LCID landfill is located on block lot 2711 007T (Figure 3). The existing landfill will be closed prior to the proposed C&D transfer station and recycling center permit approval. The design and construction details of the erosion control devices are included in Appendix F.

A Grading Permit and Erosion and Sedimentation Control Plan has been submitted and approved by the City of Winston-Salem. Stormwater pollution prevention has also been planned. A building permit will be obtained from Winston-Salem/Forsyth County prior to beginning construction activities. Soil will be borrowed from the parcel to the southeast to fill and level the process area and office location. Based on the site plan, as much as 35 feet of fill will be placed at the site. A concrete or asphalt paved entrance drive will

A concrete or asphalt paved entrance drive will lead to the scale house where incoming trucks will be weighed and scanned for unacceptable materials. The entrance drive will lead to the tipping floor. A concrete pad will be constructed to serve as the tipping floor. The area designated for the tipping floor will be 100 feet by 177 feet. The initial processing line ("A Line") will be constructed upon a concrete pad immediately adjacent to the tipping floor. The area designated for the A Line will be 60 feet by 250 feet. Once a hauler's load has been dumped and accepted, they will exit by following the entrance drive, looping around the scale house to the street.

Materials on the tipping floor will be hand sorted if necessary. Clean, re-useable items such as new wood, brick, or block may be removed and stacked without processing. Sorting on the tipping floor will be aided by rubber tire loaders which will also push materials for processing to the head of the process line. The process line(s) will include equipment to sort, and crush, chip, or shred various materials. Materials will move along conveyors and include sprayer nozzles for dust suppression. Plastics and cardboard will be baled. Most materials will be deposited in roll-off boxes for storage and transport. Aggregate will be neatly piled for temporary storage prior to transport.

An office building with asphalt paved parking area will be constructed in the eastern corner of the parcel. Additional parking and other paved areas of the site will be covered with gravel. The final grade will slope to the northwest directing stormwater to a drainage swale and down the fill slope to a water quality detention pond.

The parcels to the north and south will be graded and used for temporary storage for processed materials. A minimum buffer of 50 feet will be kept between all processing and storage areas and the property limits. The location of the described facilities is shown on Figure 5.

Eventually, a canopy over the tipping floor and a second processing line ("B Line") may be added to the southwest of the A Line to add capacity and greater processing efficiency. Additional grading may also be completed in the future to accommodate increased capacity and processing operations.

4.0 OPERATIONAL REQUIREMENTS

An Operations Manual has been developed for Abbey Green Recycling Center (Appendix G). The manual includes general facility operations, waste handling operations, and environmental management for the proposed C&D transfer station and recycling center.

4.1 Fire Safety

The possibility of fire within the transfer area or a piece of equipment must be anticipated in the daily operation of the facility. Fire suppression equipment shall be provided to control accidental fires and arrangements have been made with the local fire protection agency to ensure any incident at the facility will be handled with the appropriate equipment. The fire department has been contacted

Kleinfelder submitted data about the property location and proposed uses to Winston-Salem Fire Chief Anthony R. Farmer. Mr. Farmer responded with the letter provided in Appendix H.

FIGURES

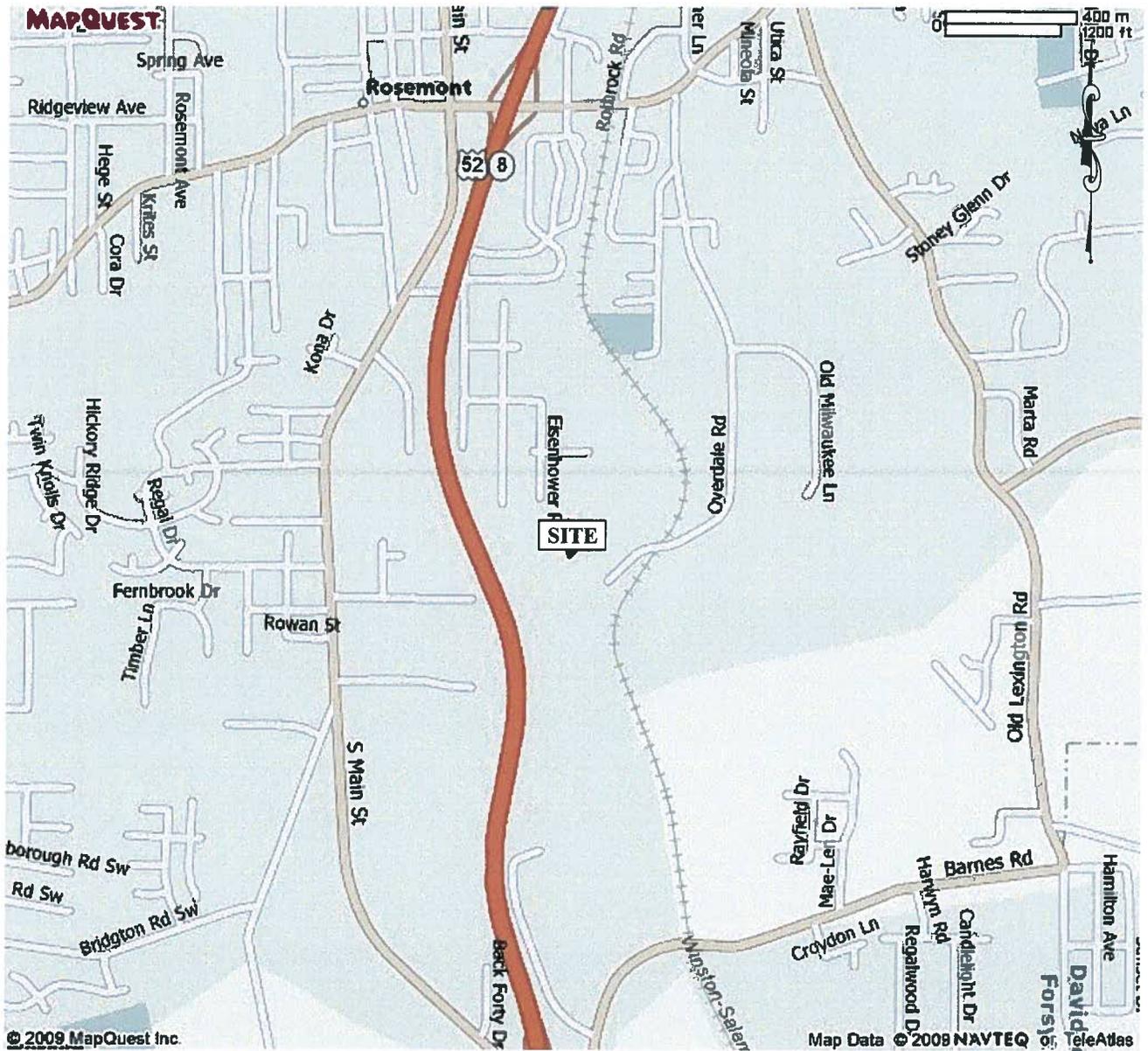


FIGURE 2
LOCAL VICINITY MAP

ABBEY GREEN, INC.
OVERDALE ROAD
WINSTON-SALEM, NORTH CAROLINA

DATE: 3-17-2009

APPROVED BY:

OWH

SCALE: AS SHOWN

SOURCE: MAPQUEST

PROJECT NO: 102111



EXPLANATION

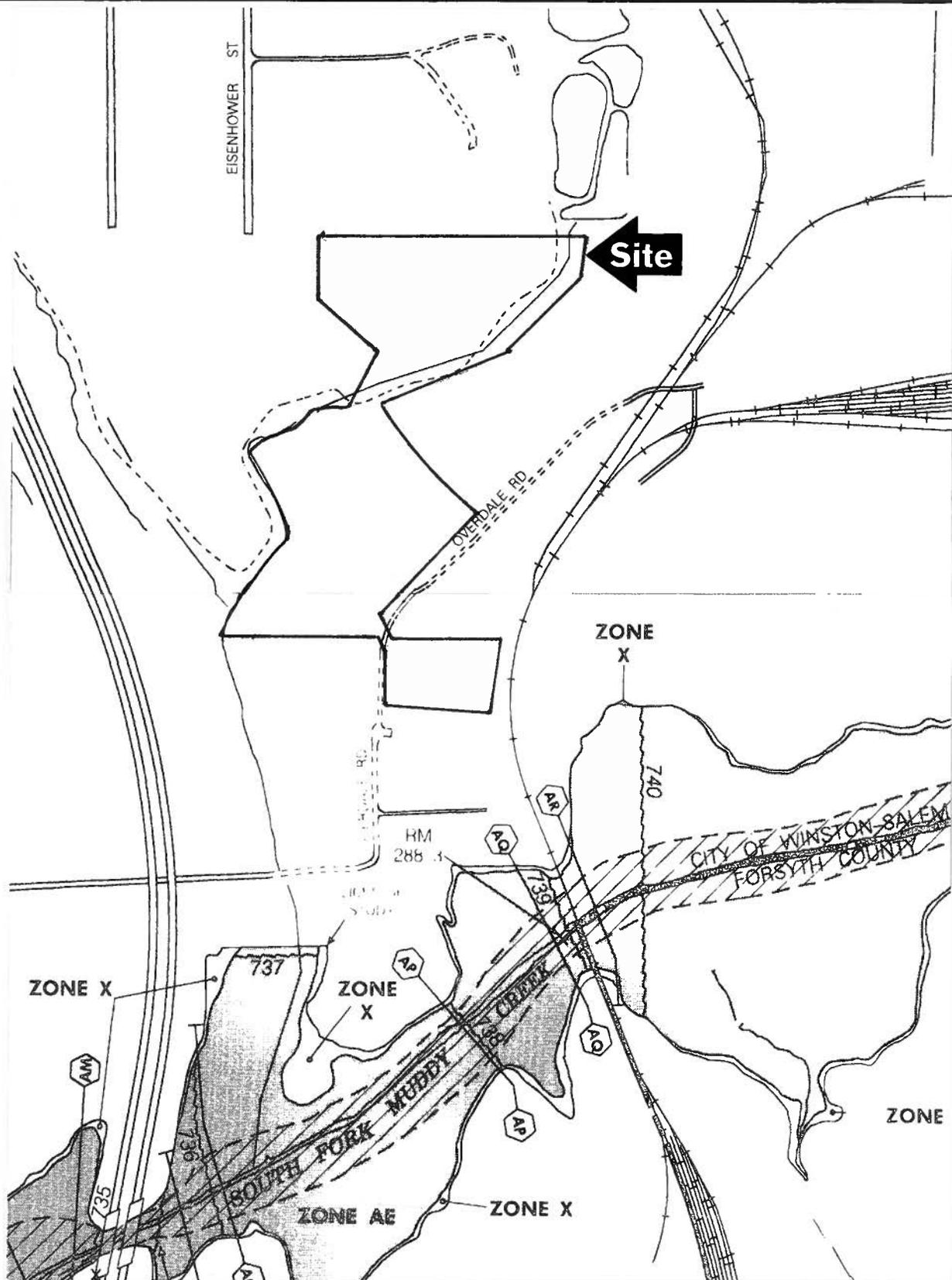
- 2711 007U BLOCK LOT
- ◆ HA-1 HAND AUGER BORING LOCATION



**FIGURE 3
PARCEL MAP**

ABBEY GREEN, INC.
OVERDALE ROAD
WINSTON-SALEM, NORTH CAROLINA

DATE 3-17-2009	APPROVED BY: <i>Cuff</i>	SCALE: 1" = 400'
SOURCE: FORSYTH COUNTY GIS		PROJECT NO. 102111



**FIGURE 4
FLOODPLAIN MAP**

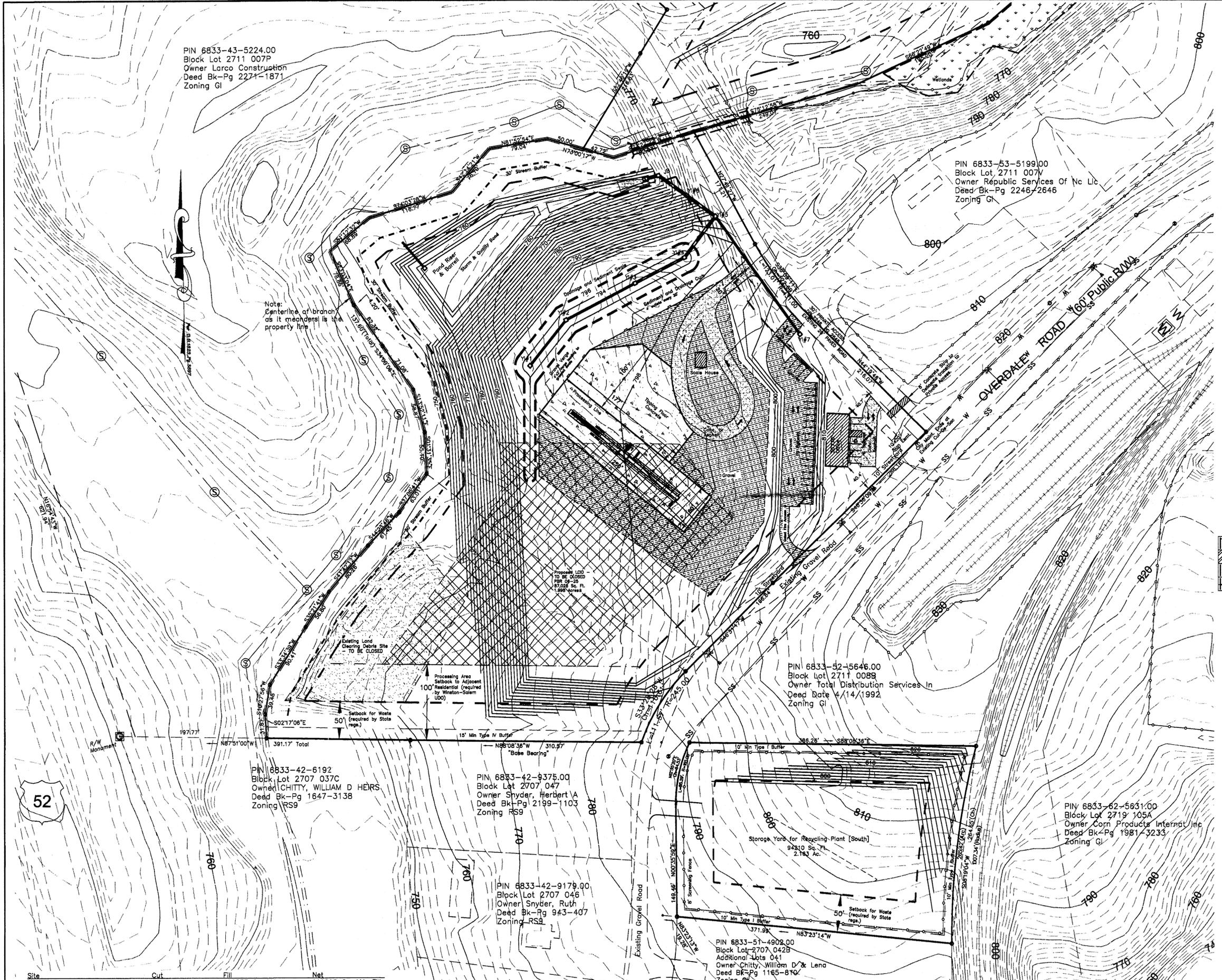
**ABBEY GREEN, INC.
OVERDALE ROAD
WINSTON-SALEM, NORTH CAROLINA**



DATE: 3-17-2009
SOURCE: FEMA COMMUNITY
PANELS 38-75349 0286 & 0288

APPROVED BY:
CWA

SCALE: 1" = 500'
PROJECT NO: 102111



PIN 6833-43-5224.00
 Block Lot 2711 007P
 Owner Larco Construction
 Deed Bk-Pg 2271-1871
 Zoning GI

PIN 6833-53-5199.00
 Block Lot 2711 007V
 Owner Republic Services Of Nc Lic
 Deed Bk-Pg 2246-2646
 Zoning GI

PIN 6833-52-5646.00
 Block Lot 2711 008R
 Owner Total Distribution Services In
 Deed Date 4/14/1992
 Zoning GI

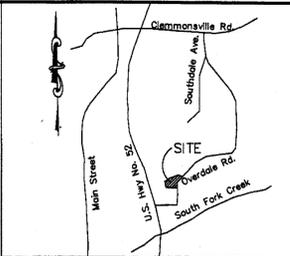
PIN 6833-42-6192
 Block Lot 2707 037C
 Owner CHITTY, WILLIAM D HERS
 Deed Bk-Pg 1647-3138
 Zoning RS9

PIN 6833-42-9375.00
 Block Lot 2707 047
 Owner Snyder, Herbert A
 Deed Bk-Pg 2199-1103
 Zoning RS9

PIN 6833-42-9179.00
 Block Lot 2707 046
 Owner Snyder, Ruth
 Deed Bk-Pg 943-407
 Zoning RS9

PIN 6833-51-4909.00
 Block Lot 2707 042B
 Additional Lots 041
 Owner Chitty, William D & Lena
 Deed Bk-Pg 1165-810
 Zoning GI

PIN 6833-62-5631.00
 Block Lot 2719 105A
 Owner Corn Products Internat Inc
 Deed Bk-Pg 1981-3233
 Zoning GI



Location Map N.T.S.

The Purpose of this Submittal is for Inspections Site Plan review.

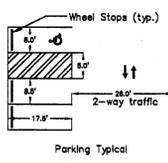
ZONING	
Existing Zoning:	GI
Proposed Zoning:	GI
Type of Review Requested:	Inspections
Jurisdiction:	City of Winston-Salem

SITE SIZE AND COVERAGES	
Total Acreage:	10.227 ± Acres.
Site Coverages:	446,487 sq. ft.
Building to Land:	0.6 %
Pavement to Land:	20.8 %
Open Space:	78.7 %
(Total = 100%)	
Building Sq. Footage (Max.):	3000 Sq. Ft.
Building Height:	32 Ft.
Public Streets:	N/A (approx.)

INFRASTRUCTURE	
Water:	<input checked="" type="checkbox"/> Public <input type="checkbox"/> Private
Sewer:	<input checked="" type="checkbox"/> Public <input type="checkbox"/> Private
Streets:	<input type="checkbox"/> Public <input checked="" type="checkbox"/> Private

OFF-STREET PARKING	
Proposed Uses:	Recycling Plant
Parking Calc.:	1 Spaces/emp + 2 spaces
Required Parking:	89 spaces (6 Office + 82 Prod. Emps.)
Parking Provided:	29 Spaces.

BUFFERYARDS (if applicable)	
Adjoining Zoning:	GI and RS9
Type Required:	Type IV
Width Provided:	15' Min.
Fence Option:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



NOTES:
 1. This map is a compilation of information from deeds, county tax information, structures and topographic information furnished by the Forsyth County GIS.
 2. Owner to obtain driveway permit prior to construction.

NOT AN ACTUAL SURVEY

Preliminary Site Plan
Overdale Recycling Plant

ABBEY GREEN INC.
 4400 Siler Creek Pkwy, Suite 301
 Winston-Salem, NC 27104
 (336) 784-1890
 bryanj@myway.com

Scale: 1" = 80'

FIELD WORK BY	CHECKED BY:
Others	JEB

TAX MAP:	CITY:	COUNTY:
630B30	Winston-Salem	Forsyth

STATE:	DATE:	SHEET NUMBER:
North Carolina	08-19-2008	1 of 2

JOB NUMBER:	DRAWN BY:
08100.051	ATC

BEESON ENGINEERING INC.
 ENGINEERS SURVEYORS PLANNERS
 503 HIGH STREET
 WINSTON-SALEM, NC 27101
 TELEPHONE: (336) 748-0071
 FAX: (336) 748-0470
 www.beesonengineering.com

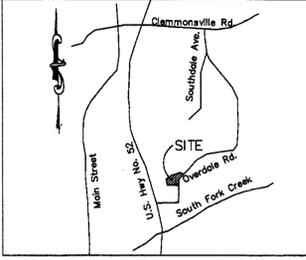
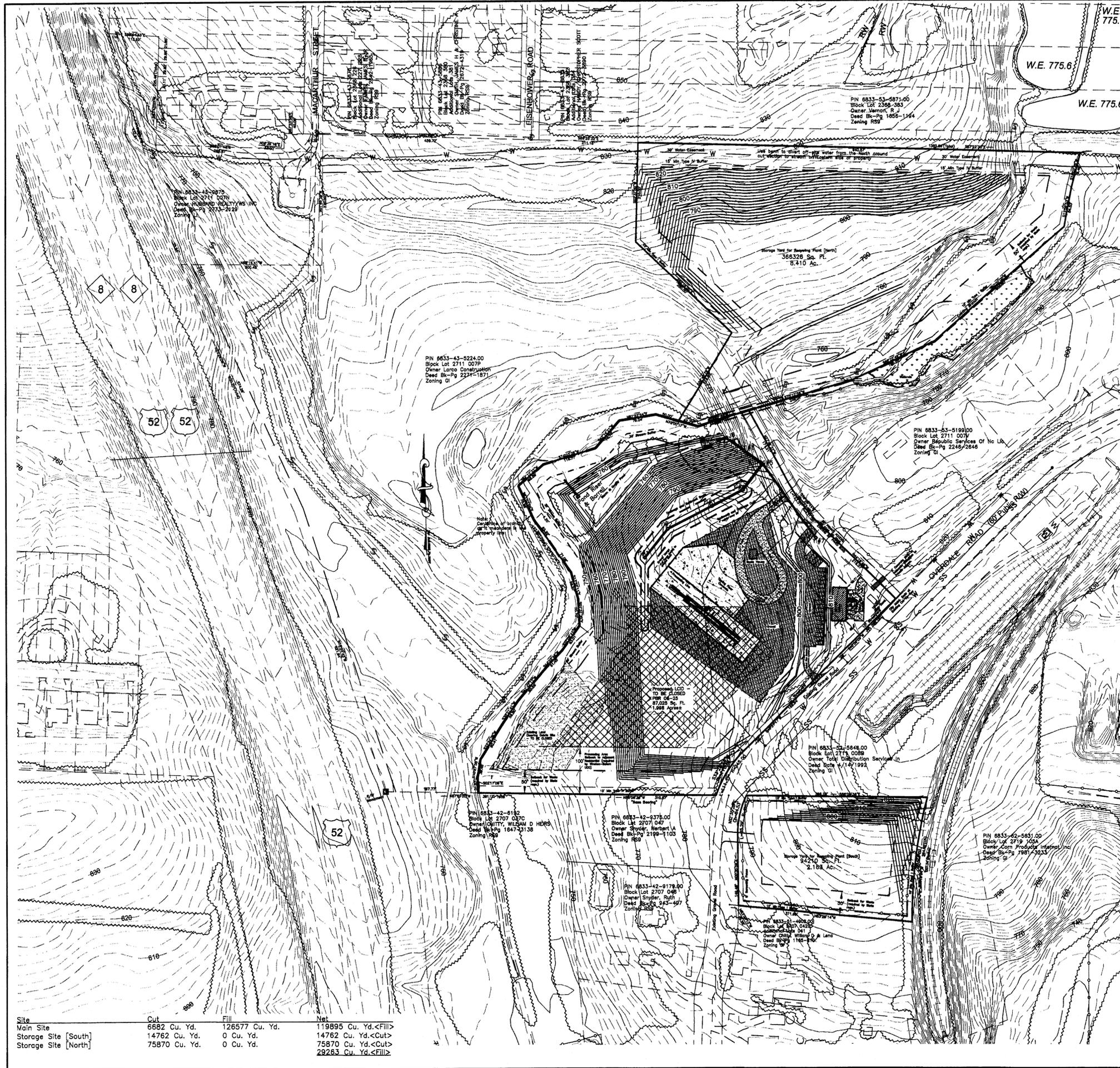
52

	Cut	Fill	Net
Site			
Main Site	6682 Cu. Yd.	126577 Cu. Yd.	119895 Cu. Yd.<Fill>
Storage Site [South]	14762 Cu. Yd.	0 Cu. Yd.	14762 Cu. Yd.<Cut>
Storage Site [North]	75870 Cu. Yd.	0 Cu. Yd.	75870 Cu. Yd.<Cut>
			29263 Cu. Yd.<Fill>

REVISIONS:
 10-31-08 Per Notes
 4-28-09 Added State req. setback

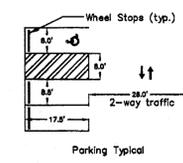


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Location Map N.T.S.

The Purpose of this Submittal is for Inspections Site Plan review.



ZONING	
Existing Zoning:	GI
Proposed Zoning:	GI
Type of Review Requested:	Inspections
Jurisdiction:	City of Winston-Salem

SITE SIZE AND COVERAGES	
Total Acreage:	10.827 ± Acres.
Site Coverages:	445,487 sq. ft.
Building to Land:	0.5 %
Pavement to Land:	20.8 %
Open Space:	78.7 %
(Total = 100%)	
Building Sq. Footage (Max.):	3000 Sq. Ft.
Building Height:	32 Ft.
Public Streets:	N/A (approx.)

INFRASTRUCTURE	
Water:	<input checked="" type="checkbox"/> Public <input type="checkbox"/> Private
Sewer:	<input checked="" type="checkbox"/> Public <input type="checkbox"/> Private
Streets:	<input type="checkbox"/> Public <input checked="" type="checkbox"/> Private

OFF-STREET PARKING	
Proposed Uses:	Recycling Plant
Parking Calc.:	1 Spaces/emp + 2 spaces
Required Parking:	29 Spaces.
Parking Provided:	29 Spaces.

BUFFERYARDS (if applicable)	
Adjoining Zoning:	GI and R50
Type Required:	Type IV
Width Provided:	15' Min.
Fence Option:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

NOTES:
1. This map is a compilation of information from deeds, county tax information, structures and topographic information furnished by the Forsyth County GIS.

NOT AN ACTUAL SURVEY

Preliminary Site Plan
Overdale Recycling Plant

ABBEY GREEN INC.
4400 Sulas Creek Pkwy, Suite 301
Winston-Salem, NC 27104
(336) 784-1890
bryanlj@myway.com

Scale: 1" = 100'
100 50 0 50 100 200

FIELD WORK BY		CHECKED BY:	
Others		JEB	
Block / Lot	PIN	Deed Book / Page	
2711 007E	6833-53-5876.00	DB 2175 PG 3070	
2711 011A	6833-53-5880.00	DB 2347 PG 2720	
2711 007U	6833-53-5882.00	DB 2376 PG 2170	

TAX MAP:	CITY:	COUNTY:
630830	Winston-Salem	Forsyth
STATE:	DATE:	SHEET NUMBER:
North Carolina	08-19-2008	2 of 2
JOB NUMBER:	DRAWN BY:	
08100.051	ATC	

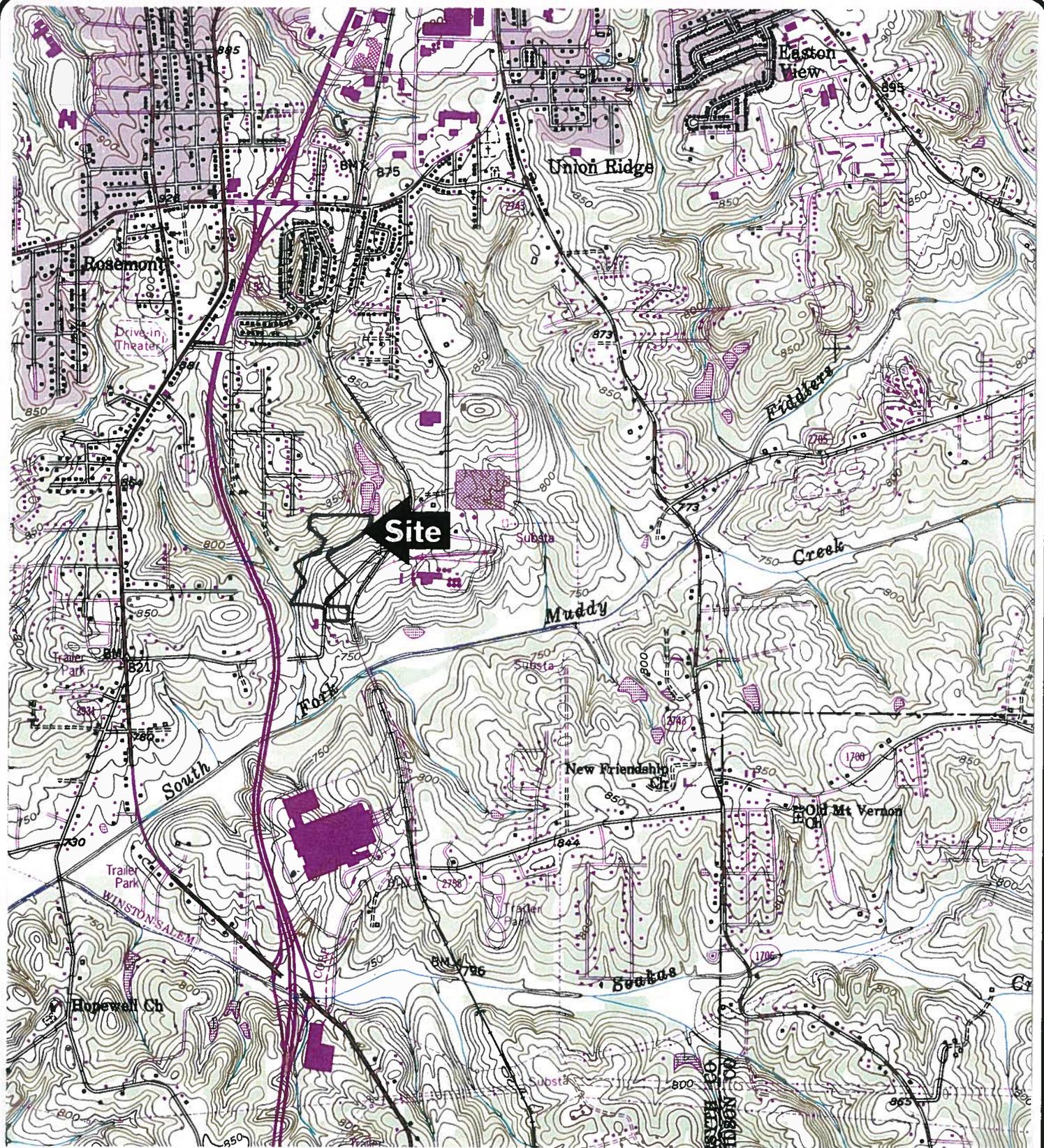
BEESON ENGINEERING INC.
ENGINEERS SURVEYORS PLANNERS
503 HIGH STREET
WINSTON-SALEM, NC 27101
TELEPHONE: (336) 748-0071
FAX: (336) 748-0470
www.beesonengineering.com

REVISIONS:
10-31-08 Per Notes
4-28-09 Added State req. setback

Site	Cut	Fill	Net
Main Site	6682 Cu. Yd.	126577 Cu. Yd.	119895 Cu. Yd.<Fill>
Storage Site [South]	14762 Cu. Yd.	0 Cu. Yd.	14762 Cu. Yd.<Cut>
Storage Site [North]	75870 Cu. Yd.	0 Cu. Yd.	75870 Cu. Yd.<Cut>
			29263 Cu. Yd.<Fill>



4-29-09



A KLEINFELDER Company
GREENSBORO, NORTH CAROLINA

FIGURE 6
USGS MAP

ABBEY GREEN, INC.
OVERDALE ROAD
WINSTON-SALEM, NORTH CAROLINA

DATE: 3-17-2009
SOURCE: USGS 7.5' TOPOGRAPHIC MAP,
WINSTON-SALEM EAST QUADRANGLE

APPROVED BY:
Carla

SCALE: 1" = 2,000'
PROJECT NO 102111



FIGURE 7
2005 AERIAL PHOTOGRAPH

ABBEY GREEN, INC.
 FORSYTH COUNTY, NORTH CAROLINA



DATE: 3-16-2009	APPROVED BY: <i>ast</i>	SCALE: 1" = 400'
SOURCE: FORSYTH COUNTY GIS		PROJECT NO: 102111

APPENDIX A

Dogwood Development & Management Company, LLC.

441 East Clemmonsville Road, Winston-Salem, North Carolina 27107

Office (336)-771-2601

Fax (336) 771-2611

Mobile (336) 408-0035

March 25, 2009

TO: Whom it may concern

FR: Tim Beeman

RE: Use of 5030 Overdale Road, Winston-Salem, North Carolina, Tax Block 2711, Lots 007T, 007U, 007W, and Tax Block 2707, Lot 042A

Dogwood Development and Management Co, LLC. has entered into an option to purchase agreement with Abbey Green, Inc. for the property described above. The "Option" provides Abbey Green, Inc. the opportunity during the terms, of the option agreement, to conduct their due diligence work associated with the purchase of this property. It also allows them the opportunity to pursue the appropriate local and state approvals, i.e. permits, etc. associated with their intentions to locate a C & D Waste Recycling Facility on the site.

Dogwood Development and Management Co., LLC. is obligated under the terms of the "Option" to allow Abbey Green, Inc. to pursue a solid waste management facility permit and fully understands and agrees with their pursuits in this matter.

Dogwood Development and Management Co., LLC. does not anticipate, at this time, participation in the construction and operation of this facility if approved.

By my signature below, I fully support and authorize the use of the property herein described for the benefit of Abbey Green, Inc. Should Abbey Green, Inc. determine during the option period they cannot use the property for their benefit, i.e. permit(s) is/are denied; then, the terms of the option agreement shall be observed by Dogwood Development and Management Co., LLC.

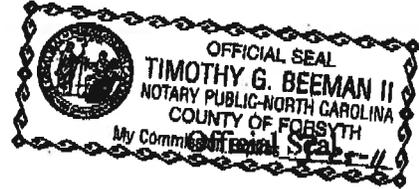
Tim Beeman

Tim Beeman, Manager, Dogwood Development and Management Co., LLC

Mr. Tim Beeman did personally appear before me on 25 day of March, 2009.

Witness my hand and official seal *Timothy G. Beeman II* Notary Public.

My Commission expires 3-25 , 2011
Month Year



DRAFTED BY: James W. Armentrout
 Mail after recording to:
James D. Wall, Esq. (Box 106)
P.O. Box 21029
Winston-Salem, NC 27120-1029

Tax Block & Lot: 2711 Pt. Lt. 7F
 Parcel ID:
 Mail future tax bills to:
 Grantee
c/o James D. Wall, Esq.
P.O. Box 21029
Winston-Salem, NC 27120-1029

FORSYTH CO, NC **79** FEE: \$ 12.00
 PRESENTED & RECORDED: 05/22/2001 11:59AM
 DICKIE C. WOOD REGISTER OF DEEDS BY: HODDVA
 STATE OF NC REAL ESTATE EXT: \$ **1026.00**
BK2175 P3070 - P3072
 RECORDING TIME 

Do not write in this space

FORSYTH COUNTY, NORTH CAROLINA GENERAL WARRANTY DEED

THIS DEED made this 16th day of May, 2001, ~~19~~20XX, by and between

GRANTOR

OVERDALE ASSOCIATES, L.L.C.

GRANTEE

DOGWOOD DEVELOPMENT AND MANAGEMENT COMPANY, LLC, a North Carolina limited liability company
 441 E. Clemmons Road
 Winston-Salem, NC 27127

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, in consideration of (~~\$10.00 ovc~~) ten dollars and other valuable considerations to it 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 in Forsyth County, North Carolina Winston Township, more particularly described as follows:

See Attachment A incorporated herein

Property Address: Overdale Road

The above land was conveyed to Grantor by Hubbard Realty et al (see book number 2112 page 1374)

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, free and clear of all encumbrances, and that Grantor will warrant and defend the title against the lawful claims of all persons whomsoever subject to the following exceptions:

easements and restrictions of record and 2001 ad valorem taxes

IN WITNESS WHEREOF the Grantor has 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.

_____ (seal)	OVERDALE ASSOCIATES, L.L.C. (seal)
_____ (seal)	BY: <u>C.J. Ramey</u> (seal)
_____ (seal)	C.J. Ramey, Manager (seal)
BY: <u>Derek S. Duggins</u> (seal)	BY: <u>Lewis E. Hubbard, Jr.</u> (seal)
Derek S. Duggins, Manager (seal)	Lewis E. Hubbard, Jr., Manager (seal)

Corporate Name _____

By: _____ President _____ Secretary _____ Corporate Seal

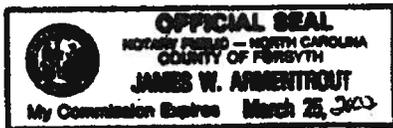
ATTEST:

STATE OF NORTH CAROLINA - Forsyth County

I, _____, a Notary Public of Forsyth County, NC, do hereby certify that _____ personally came before me this day and acknowledged that he is _____ secretary of _____ a North Carolina corporation, and that by authority duly given as the act of the corporation, the foregoing instrument was signed in its name by its _____ President, sealed with its corporate seal and attested by _____ as its _____ Secretary. Witness my hand and notarial seal this the _____ day of _____, 19____. My commission expires _____, 19____. Notary Public

SEAL/STAMP

STATE OF NORTH CAROLINA - Forsyth County



I, James W. Armentrout, a Notary Public of Forsyth County, NC, do hereby certify that C.J. Ramey, Derek S. Duggins, and Lewis E. Hubbard, Jr., all Managers of, and acting on behalf of, Overdale Associates, LLC personally appeared before me this day and acknowledged the execution of the foregoing deed of conveyance. Witness my hand and notarial seal this the 16th day of May, 2001. My commission expires 3-25-02. Notary Public

SEAL/STAMP

STATE OF NORTH CAROLINA - Forsyth County

I, _____, a Notary Public of Forsyth County, NC, do hereby certify that _____ personally appeared before me this day and acknowledged the execution of the foregoing deed of conveyance. Witness my hand and notarial seal this the _____ day of _____, 19____. My commission expires _____, 19____. Notary Public

SEAL/STAMP

STATE OF NORTH CAROLINA - Forsyth County

I, _____, a Notary Public of Forsyth County, NC, do hereby certify that _____ personally appeared before me this day and acknowledged the execution of the foregoing deed of conveyance. Witness my hand and notarial seal this the _____ day of _____, 19____. My commission expires _____, 19____. Notary Public

SEAL/STAMP

STATE OF NORTH CAROLINA - Forsyth County

I, _____, a Notary Public of Forsyth County, NC, do hereby certify that _____ personally appeared before me this day and acknowledged the execution of the foregoing deed of conveyance. Witness my hand and notarial seal this the _____ day of _____, 19____. My commission expires _____, 19____. Notary Public

SEAL/STAMP

The foregoing Certificate(s) of James W. Armentrout are certified to be correct at the date of recordation shown

on the first page thereof. Dickie C. Wood, Register of Deeds for Forsyth County by: Dickie C. Wood Deputy/Asst. Forsyth County Register of Deeds form LFD 2/99

ATTACHMENT "A"

BEGINNING at a point in the northern right-of-way line of Overdale Road (S.R. 2749), said point being located North 33 28' 28" East a chord distance of 110.61 feet (L=111.57', R=245.00') from the northeast corner of Lillian Griffith (then or now) as recorded in Deed Book 567, Page 193, Forsyth County Registry (tax lot 47, Block 2707); running thence from said beginning point and with the northern right-of-way line of Overdale Road North 46 31' 15" East 166.53 feet; thence North 47 06' 15" East 187.69 feet; thence North 45 40' 14" East 339.04 feet; thence North 45 56' 44" East 165.87 feet; thence North 65 49' 41" East a chord distance of 358.07 feet to a point (R=524.15', L=365.42') in the Winston-Salem Southbound Railroad property; running thence with the western line of the railroad North 37 04' 54" East 175.52 feet; thence North 35 42' 42" East 97.83 feet; thence North 32 07' 26" East 75.34 feet to a point; running thence away from the railroad property North 02 24' 33" East 202.41 feet to a point, an old corner in the southern line of Lot 383 of Lexwin as recorded in Plat Book 12, Page 74, Forsyth County Registry; running thence with the southern boundary of lot 383 North 87 22' 30" West 412.09 feet to a point, a new corner; running thence the following courses and distances with the creek as it generally meanders south and west: South 16 03' 28" West 75.49 feet; South 11 58' 53" West 84.53 feet; South 50 00' 00" West 365.90 feet; South 66 22' 49" West 195.20 feet; South 75 12' 58" West 249.07 feet; South 73 27' 22" West 92.07 feet; North 73 00' 17" West 92.72 feet; South 81 52' 54" West 79.04 feet; South 42 14' 21" West 76.70 feet; South 74 03' 28" West 116.77 feet; South 51 12' 32" West 68.89 feet; South 23 03' 04" East 78.86 feet; South 34 00' 06" East 137.60 feet; South 13 52' 11" East 58.87 feet; South 01 31' 35" East 55.10 feet to a point; running thence South 51 33' 05" East 436.57 feet to a point, the point and place of **BEGINNING**; same being a 17.091 acre tract of land adjoining Overdale Road and being more fully shown on the unrecorded plat of "Overdale Associates, LLC" by Beeson Engineering, Inc. revised as of July 14, 2000; and also being part of the tax lot 7M, Block 2711, City/County Tax Collectors Maps.

FORSYTH CO, NC 149 FEE: \$ 23.00
PRESENTED & RECORDED: 07/23/2002 3:04PM
DICKIE C. WOOD REGISTER OF DEEDS BY: HOODWA
STATE OF NC REAL ESTATE EXTX: \$ 98.00
BK2267 P2420 - P2423

Excise Tax \$

Recording Time, Book and Page

Tax Lot No. _____ Parcel Identifier No. _____
Verified by _____ County on the ___ day of _____, 19__
by _____

Mail after recording to Bell, Davis & Pitt, P.A. Box 106
This instrument was prepared by Mallory M. Oldham

Brief Description for the index

NORTH CAROLINA GENERAL WARRANTY DEED

THIS DEED made this 27th day of June, 2002, by and between

GRANTOR

GRANTEE

William D. Chitty, single

Dogwood Development and Management
Company, LLC, a North Carolina limited
liability company
441 E. Clemmonsville Road
Winston-Salem, NC 27127

Enter in appropriate block for each party: name, address, and, if appropriate, character of entity, e.g., corporation or partnership.

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, together with all improvements located thereon, situated in the City of Winston-Salem, Winston Township, Forsyth County, North Carolina and more particularly described as follows:

SEE EXHIBIT "A" ATTACHED HERETO AND INCORPORATED HEREIN BY REFERENCE.

EXHIBIT "A"

BEING a certain tract or parcel of land located in Winston Township, Forsyth County, North Carolina and being more particularly described as follows.

BEGINNING at an iron pipe in the southwestern corner of property now or formerly owned by Total Distribution Services, Inc. as recorded in Deed Book 1742, page 631, Forsyth County Registry (Tax Lot 8B, Lot 2711) said new iron pipe being located South 88° 08' 36" East 37.46 feet from the southeastern corner of property now or formerly owned by Herbert A. Snyder as recorded in Deed Book 2199, page 1103, Forsyth County Registry (Tax Lot 47, Block 2707); running thence from said beginning point along the southern line of Total Distribution Services, Inc. South 88° 08' 36" East 386.26 feet to an existing iron pipe in the western right of way line of the Winston-Salem southbound railroad; thence along the western right of way line of the Winston-Salem southbound railroad along a curve to the left having a radius of 1007.34 feet an arc distance of 265.42 feet a chord bearing and distance South 08° 19' 04" West 264.65 feet to a new iron pipe; thence along a new line North 83° 23' 13" West 371.99 feet to a new iron pipe; thence North 00° 35' 59" East 149.46 feet to a point; thence along a curve to the right having a radius of 185.00 feet an arc distance of 85.29 feet a chord bearing and distance North 13° 48' 26" East 84.53 feet to a new iron pipe in the southwestern corner of property now or formerly owned by Total Distribution Services, Inc. as recorded in Deed Book 1742, page 631 (Tax Lot 8B, Block 2711), the point and place of beginning, containing 2.163 acres more or less (94,210 square feet) as shown on a survey entitled "Subdivision of Tax Lot 42 for Tim Beamon" prepared by John E. Beeson, Registered Land Surveyor dated March 21, 2002. The same being a portion of Tax Lot 42, Block 2707 as presently shown on the Forsyth County Tax Maps.

TOGETHER WITH a perpetual nonexclusive easement for ingress, egress and regress over, across and through that certain tract or parcel of land more particularly described as follows:

BEGINNING at an iron pipe marking the southwestern corner of property now or formerly owned by Total Distribution Services, Inc. as recorded in Deed Book 1742, page 631, Forsyth County Registry (Tax Lot 8B, block 2711) said new iron pipe being located South 88° 08' 36" East 37.46 feet from a point marking the northeastern corner of property now or formerly owned by Herbert A. Snyder as recorded in Deed Book 2199, page 1103, Forsyth County Registry (Tax Lot 47, Block 2707); running thence from said beginning point along a curve to the left having a radius of 185 feet an arc distance of 85.29 feet a chord bearing and distance South 13° 48' 26" West 84.53 feet to a point; thence South 00° 35' 59" West 149.46 feet to a new iron pipe; thence North 83° 23' 13" West 19.28 feet to a point in the eastern line of property now or formerly owned by Ruth Snyder as recorded in Deed Book 943, page 407, Forsyth County Registry (Tax Lot 46, Lot 2707); thence along the eastern line of Ruth Snyder and the eastern line of Herbert A. Snyder as recorded in Deed Book 2199, page 1103, Forsyth County Registry (Tax Lot

MINOR SUBDIVISION
APPROVAL

Approved by *Alison*
for Director, City-County date
Planning Board

47, Block 2707) North $00^{\circ} 51' 27''$ East 230.56 feet to a point; thence South $88^{\circ} 08' 36''$ East 37.46 feet to a point to a new iron pipe marking the southwestern corner of property now or formerly owned by Total Distribution Services, Inc. as recorded in Deed Book 1742, page 631, Forsyth County Registry (Tax Lot 8B, Lot 2711) the point and place of beginning, containing 0.111 acres more or less (4,839 square feet) in accordance with a survey entitled "Subdivision of Tax Lot 42 for Tim Beamon" by John E. Beeson, Registered Land Surveyor dated March 21, 2002, the above-described parcel being a portion of Tax Lot 42, Block 2707 as presently shown on the Forsyth County Tax Maps.

2005040153 00203
 FORSYTH CO, NC FEE \$23.00
 STATE OF NC REAL ESTATE EXTX
\$538.00
 PRESENTED & RECORDED:
 06-23-2005 02:51 PM
 DICKIE C WOOD
 REGISTER OF DEEDS
 By: E NAVARRO DPTY
BK:RE 2576
PG:2117-2120

Do not write above this line

DRAFTED BY: James W. Armentrout	Tax Block-Lot: 2711/7U &	Parcel ID:
Mail after recording to: Box 106	Mail future tax bills to: 7T	

FORSYTH COUNTY, NORTH CAROLINA GENERAL WARRANTY DEED

THIS DEED made this 29th day of May, 2005, by and between

GRANTOR	GRANTEE
Overdale Associates, LLC	Dogwood Development and Management Company, LLC

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall singular, plural, masculine, feminine or neuter as required by context. WITNESSETH, that the Grantor, in consideration of (\$ 10.00 ovc) Ten dollars and other valuable considerations to it 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 in Forsyth County, North Carolina, Winston Township, more particularly described as follows:

Attachment "A" hereto

Property Address: Overdale Road, Winston-Salem, NC 27101
 The above land was conveyed to Grantor by Hubbard and Ramey (see book number 2112 page 374)
 Deed Form - Page 1 of 2

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, Grantee in fee simple and the Grantor covenants is free and clear of all encumbrances, and that Grantor will warrant and defend the title against the lawful claims of all persons whomsoever subject to the following exceptions: easements of record and 2005 ad valorem taxes

IN WITNESS WHEREOF the Grantor has 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.

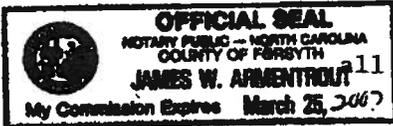
by: [Signature] (seal) Overdale Associates, LLC (seal)
Manager (seal) by: [Signature] (seal)
Manager (seal)
(seal) by: [Signature] (seal)
Manager

Corporate Name
By:
President

STATE OF NORTH CAROLINA - Forsyth County

I, _____, a Notary Public of Forsyth County, NC, do hereby certify that _____ personally came before me this day and acknowledged that he is _____ President of _____ and acknowledged on behalf of the corporation, the due execution of the foregoing instrument. Witness my hand and notarial seal this the _____ day of _____, 20____. My commission expires _____, 20____ Notary Public

STATE OF NORTH CAROLINA - Forsyth County



I, James W. Armentrout, a Notary Public of Forsyth County, NC, do hereby certify that C.J. Ramey, Derek S. Duggins, and Lewis E. Hubbard, managers of, and acting on behalf of, Overdale Associates, LLC personally appeared before me this day and acknowledged the execution of the foregoing deed of conveyance. Witness my hand and notarial seal this the 29th day of May, 2005. My commission expires 3-25-2007 Notary Public

STATE OF NORTH CAROLINA - Forsyth County

I, _____, a Notary Public of Forsyth County, NC, do hereby certify that _____ personally appeared before me this day and acknowledged the execution of the foregoing deed of conveyance. Witness my hand and notarial seal this the _____ day of _____, 20____. My commission expires _____, 20____ Notary Public

STATE OF NORTH CAROLINA - Forsyth County

I, _____, a Notary Public of Forsyth County, NC, do hereby certify that _____ personally appeared before me this day and acknowledged the execution of the foregoing deed of conveyance. Witness my hand and notarial seal this the _____ day of _____, 20____. My commission expires _____, 20____ Notary Public

STATE OF NORTH CAROLINA - Forsyth County

I, _____, a Notary Public of Forsyth County, NC, do hereby certify that _____ personally appeared before me this day and acknowledged the execution of the foregoing deed of conveyance. Witness my hand and notarial seal this the _____ day of _____, 20____. My commission expires _____, 20____ Notary Public

The foregoing Certificate(s) of James W. Armentrout is/are certified to be correct at the date of recordation shown on the first page thereof.

Dickie C. Wood, Register of Deeds for Forsyth County by: [Signature] Deputy/Asst. Deed Form - Page 2 of 2

EXHIBIT "A"**TRACT 1:**

BEGINNING at a point in the northern right of way line of Overdale Road (S.R. 2749), said point being located South 88° 08' 36" East 310.97 feet from the northwestern corner of property now or formerly owned by Herbert A. Snyder as recorded in Deed Book 2267, page 2420, Forsyth County Registry; running thence from said beginning point and with the northern right of way line of Overdale Road North 33° 28' 28" East a chord distance of 110.61 feet (L=111.57 feet, R=245.00 feet) to a point, a common corner with Dogwood Development and Management Company, LLC as recorded in Deed Book 2175, page 3070, Forsyth County Registry; thence with the southern line of Dogwood North 51° 33' 05" West 436.57 feet to a point in the eastern line of Larco Construction (now or formerly) as recorded in Deed Book 2271, page 1871; thence with the eastern line of Larco and the centerline of a branch as it meanders the following seven (7) courses and distances: (i) South 37° 06' 41" West 63.01 feet to a point; (ii) South 44° 23' 46" West 61.45 feet to a point; (iii) South 41° 42' 12" West 80.26 feet to a point; (iv) South 35° 21' 41" West 56.80 feet to a point; (v) South 33° 34' 39" West 90.41 feet to a point; (vi) South 10° 27' 56" West 39.48 feet to a point; and (vii) South 02° 17' 06" East 31.87 feet to a point in the northern boundary of William D. Chitty (now or formerly) as recorded in Deed Book 1647, page 3138, Forsyth County Registry; thence with the northern boundary of Chitty South 87° 51' 00" East 193.41 feet to a ½" existing iron pipe, a common corner with Herbert A. Snyder (Deed Book 2267, page 2420); thence with the northern boundary of Snyder South 88° 08' 36" East 310.97 feet to a point in the northern right of way line of Overdale Road, the point and place of beginning; same is a 2.790 acre tract denominated as "Option Two" on the unrecorded plat of Overdale Associates, LLC for Dogwood Development and Management Co. prepared by Beeson Engineering, Inc. dated 3-24-00 and last revised 6-20-05; also being known as Tax Lot 7T, Block 2711 City County Tax Maps as presently constituted.

TRACT 2:

BEGINNING at a point in the northeast corner of a 20.207 acre tract owned by Larco Construction in Deed Book 2271, page 1871, Forsyth County Registry; running thence from said beginning point and with the eastern boundary of Larco South 02° 37' 30" West 210.00 feet to a point; thence South 45° 18' 50" East 280.00 feet to a point; thence South 32° 46' 19" West 216.83 feet to a point in the northern line of a tract owned by Dogwood Development and Management Company, LLC (now or formerly) as recorded in Deed Book 2175, page 3070, Forsyth County Registry; thence with the northern boundary of Dogwood and the centerline of a branch as it meanders the following seven (7) courses and distances: (i) South 73° 00' 17" East 42.72 feet to a point; (ii) North 73° 27' 22" East 92.07 feet to a point; (iii) North 75° 12' 58" East 249.07 feet to a point; (iv) North 66° 22' 49" East 195.20 feet to a point; (v) North 50° 00' 00" East 365.90 feet to a point; (vi) North 11° 58' 53" East 84.53 feet to a point; and (vii) North 16° 03' 28" East 75.49 feet to a new iron pipe in the southern line of Lot 383 of Lexwin as shown on a plat

of "Lexwin" in Plat Book 12, page 74, Forsyth County Registry; thence with the southern boundary of Lot 383 North 87° 22' 30" West 940.57 feet to an existing iron pipe, the northeast corner of Larco (Deed Book 2271, page 1871), the point and place of beginning; same is an 8.409 acre tract (Tax Lot 7U, Block 2711) on the unrecorded plat of Overdale Associates, LLC for Dogwood Development and Management Co. prepared by Beeson Engineering, Inc. dated 3-24-00 and last revised 6-20-05; together with any and all rights and responsibilities to access or utility easements that have previously been granted by Overdale Associates, L.L.C. to contiguous or adjoining property owners to the end that those easements can be used for the benefit and enjoyment by the owners of the tracts herein, their heirs, successors, and assigns and any and all rights and responsibilities to access or utility easements that have been granted to Overdale Associates, L.L.C. including but not limited to those easements set forth in that Driveway Easement and Maintenance Agreement recorded in Book 2540, page 441, Forsyth County Registry.

#218641

APPENDIX B



PERMIT # 132450

ZONING COMPLEX

100 East First Street
Winston-Salem, NC 27101
(336) 727-2628

Processed Date: 10/24/2008 Issued Date:
Property Use Code : RECYCLING PLANT

Job Address: 5030 OVERDALE RD
WINSTON-SALEM, NC 27107-

Block: 2711 Lot: 007W

Zoning: G1

Owner:
DOGWOOD DEVELOPMENT & MGMT CO
441 E CLEMMONSVILLE RD
WINSTON-SALEM, NC 27127-

Applicant:
JIM BRYAN
5116 SEDGEBROOK RD

Permit Details:

INSPECTOR: VELEZ CALEB

SETBACKS FRONT 0.00 REAR 0.00 CORNER LOT N
LEFT SIDE 0.00 RIGHT SIDE 0.00

OTHER PERMITS REQUIRED: BUILDING Y PLUMBING N MECH/HVAC N ELECTRIC N
ELEVATION 0.00 EROSION CONTROL INSPECTOR

Description of Work:

ZONING COMPLEX - RECYCLING PLANT, FOR ZONING ONLY NO STRUCTURES AT THIS TIME
BIN # 57
CONTACT: JIM BRYAN 345-7793 / BRYANLJ@MYWAY.COM
11/06/08 REVISED PLANS - SITE

Fees:

ZONING COMPLEX FEE - CITY 100.00

Total Fee **\$100.00**

Required Inspections:

Zoning

This permit is void unless the required inspections listed above are completed and approved within one year of the issued date or the permit is renewed.

Jim Bryan
Customer Name (Printed)
Jim Bryan

JOSEPH KUB...
Processed By
JK

Inspections Permit \$100.00
CK 1014 \$100.00
CHANGE \$0.00

Thank you for your payment
PD:12/18/2008 LOC:RCHS WS:035
ID:PRISCLB DATE: 12/17/2008 TIME:10:
M CITY OF W-S REVENUE RCT:00175
ACCT:132450 None
Contractor ID: Temp Type: BLDG
Cust ID:
Assessment Num: 0000000000

APPENDIX C



North Carolina Department of Environment and Natural Resources
Division of Natural Resources Planning and Conservation

Beverly Eaves Perdue, Governor

Linda Pearsall, Director

Dee Freeman, Secretary

February 25, 2009

Mr. Christopher W. Hay
Trigon/Kleinfelder, Inc.
P.O. Box 18846
Greensboro, NC 27409

Subject: Abbey Green Treatment and Processing Facility; East of US 52, approximately one mile south of the intersection of Clemmons Road and Overdale Road, Forsyth County
Trigon/Kleinfelder Project No. 102111

Dear Mr. Hay:

The Natural Heritage Program has no record of rare species, significant natural communities, or significant natural heritage areas within a mile of the project area. There is one conservation/managed area about 0.22 mile to the northeast of the site – Weston Park, owned/administered by the City of Winston-Salem. As this area lies upstream of the project site, and across a RR track, no impacts to the park are expected from the project.

You may wish to check the Natural Heritage Program database website at www.ncnhp.org for a listing of rare plants and animals and significant natural communities in the county and on the quad map. Our Program also has a new website that allows users to obtain information on element occurrences and significant natural heritage areas within two miles of a given location:

<http://nhpweb.enr.state.nc.us/nhis/public/gmap75_main.phtml>. The user name is "public" and the password is "heritage". You may want to click "Help" for more information.

NC OneMap now provides digital Natural Heritage data online for free. This service provides site specific information on GIS layers with Natural Heritage Program rare species occurrences and Significant Natural Heritage Areas. The NC OneMap website provides Element Occurrence (EO) ID numbers (instead of species name), and the data user is then encouraged to contact the Natural Heritage Program for detailed information. This service allows the user to quickly and efficiently get site specific NHP data without visiting the NHP workroom or waiting for the Information Request to be answered by NHP staff. For more information about data formats and access, visit <www.nconemap.com>, then click on "FTP Data Download", and then "nheo.zip" [to the right of "Natural Heritage Element Occurrences"]. You may also e-mail NC OneMap at <dataq@ncmail.net> for more information.

Please do not hesitate to contact me at 919-715-8697 if you have questions or need further information.

Sincerely,

Harry E. LeGrand, Jr., Zoologist
Natural Heritage Program

1601 Mail Service Center, Raleigh, North Carolina 27699-1601
Phone: 919-715-4195 \ FAX: 919-715-3060 Internet: www.oneNCNaturally.org

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One
North Carolina
Naturally
Natural Resources Planning and Conservation



P.O. Box 18846 • Zip 27419-8846 • 313 Gallimore Dairy Road • Greensboro, NC 27409 • p 336.668.0093 • f 336.668.3868

February 24, 2009

Mr. Harry E. LeGrand, Jr.
Division of Parks and Recreation
North Carolina Natural Heritage Program
1601 Mail Service Center
Raleigh, North Carolina 27699

Reference: **Abbey Green Treatment and Processing Facility**
Forsyth County, North Carolina
Trigon | Kleinfelder Project No. 102111

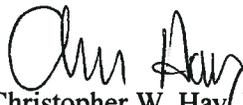
Dear Mr. LeGrand:

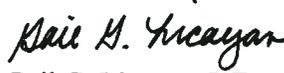
On behalf of Abbey Green, Inc., Trigon | Kleinfelder, Inc. is preparing an application for a treatment and processing facility permit for the referenced site in Forsyth County, North Carolina. The site is located east of US Route 52, approximately one mile south of the intersection of Clemmonsville Road and Overdale Road. The site is approximately 20 acres in size and consists of four parcels. This letter serves as a request for information on any cultural, historical, or designated environmental areas within 1,000 feet of the property.

Attached is a USGS topographic map with the project area outlined. If any additional information is needed please do not hesitate to contact me at 336.668.0093 or email chay@kleinfelder.com.

Very truly yours,

TRIGON | KLEINFELDER, INC.


Christopher W. Hay, E.I.
Environmental Group Manager


Gail G. Licayan, P.E.
Project Professional

CWH/GGL

Attachment: Site Location Map

j:\share\0420\projects\2009\102111 abbey green c&d treatment and processing facility application\state_letters.doc

APPENDIX D



**North Carolina Department of Cultural Resources
State Historic Preservation Office**

Peter B. Sandbeck, Administrator

Beverly Eaves Perdue, Governor
Linda A. Carlisle, Secretary
Jeffrey J. Crow, Deputy Secretary

Office of Archives and History
Division of Historical Resources
David Brook, Director

March 24, 2009

Gail Licayan
Trigon/Kleinfelder, Inc.
PO Box 18846
Greensboro, NC 27419-8846

Re: Abbey Green Treatment and Processing Facility, Trigon/Kleinfelder Project 102111, Forsyth County,
ER 09-0371

Dear Ms. Licayan:

Thank you for your letter of February 24, 2009, concerning the above project.

We have conducted a review of the project and are aware of no historic resources which would be affected by the project. Therefore, we have no comment on the project as proposed.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, please contact Renee Gledhill-Earley, environmental review coordinator, at 919-807-6579. In all future communication concerning this project, please cite the above-referenced tracking number.

Sincerely,

A handwritten signature in blue ink that reads "Renee Gledhill-Earley".

A handwritten signature in blue ink that reads "Peter Sandbeck".
Peter Sandbeck



P.O. Box 18846 • Zip 27419-8846 • 313 Gallimore Dairy Road • Greensboro, NC 27409 • p 336.668.0093 • f 336.668.3868

February 24, 2009

Mr. Peter Sandbeck
State Historic Preservation Office
4617 Mail Service Center
Raleigh, North Carolina 27699-4617

Reference: **Abbey Green Treatment and Processing Facility
Forsyth County, North Carolina
Trigon | Kleinfelder Project No. 102111**

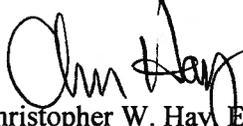
Dear Mr. Sandbeck:

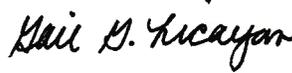
On behalf of Abbey Green, Inc., Trigon | Kleinfelder, Inc. is preparing an application for a treatment and processing facility permit for the referenced site in Forsyth County, North Carolina. The site is located east of US Route 52, approximately one mile south of the intersection of Clemmons Road and Overdale Road. The site is approximately 20 acres in size and consists of four parcels. This letter serves as a request for information on any cultural, historical, or designated environmental areas within 1,000 feet of the property.

Attached is a USGS topographic map with the project area outlined. If any additional information is needed please do not hesitate to contact me at 336.668.0093 or email chay@kleinfelder.com.

Very truly yours,

TRIGON | KLEINFELDER, INC.


Christopher W. Hay, E.I.
Environmental Group Manager


Gail G. Licayan, P.E.
Project Professional

CWH/GGL

Attachment: Site Location Map

j:\share\0420\projects\2009\102111 abbey green c&d treatment and processing facility application\state_letters.doc

APPENDIX E



FAX COVER SHEET

To: Mr. John Thomas
Name
USACE
Company

Address or branch office
919.562.0421
Fax Number

Date: 4-24-2009

From: Gail Licayan
Name
glicayan@kleinfelder.com
e-mail

KLEINFELDER
313 Gallimore Dairy Rd.
Address
Greensboro, NC 27409
Address 2
336.668.0093
Phone
336.668.3868
Fax

Total Pages (including cover sheet): 3

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Original Will Follow:
Original Will Not Follow:

Subject: **Abbey Green Recycling Center**

Special Instructions: We are completing an application for a recycling center in Forsyth County (please see the attached letter and map). The Division of Solid Waste Management rules require a response from the USACE be included with the application. If you would provide a letter or response to this email, that would be greatly appreciated.

**IF THERE ARE ANY PROBLEMS RECEIVING THIS TRANSMISSION,
PLEASE CALL GAIL LICAYAN @ 336.668.0093**



P.O. Box 18846 • Zip 27419-8846 • 313 Gallimore Dairy Road • Greensboro, NC 27409 • p 336.668.0093 • f 336.668.3868

February 24, 2009

Mr. John Thomas
USACE
Raleigh Regulatory Field Office
3331 Heritage Trade Drive | Suite 105
Wake Forest, North Carolina 27587

Reference: **Abbey Green Treatment and Processing Facility**
Forsyth County, North Carolina
Trigon | Kleinfelder Project No. 102111

Dear Mr. Thomas:

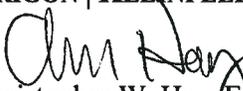
On behalf of Abbey Green, Inc., Trigon | Kleinfelder, Inc. is preparing an application for a treatment and processing facility permit for the referenced site in Forsyth County, North Carolina. The site is located east of US Route 52, approximately one mile south of the intersection of Clemmons Road and Overdale Road. The site is approximately 20 acres in size and consists of four parcels. Attached is a USGS topographic map with the project area outlined.

Based on observations during our site visit on February 20, 2009, an unnamed tributary to South Fork Muddy Creek is located along the eastern property boundary in the northern portion of the site and then crosses through an existing culvert to the western property boundary in the southern portion of the site. A sewer line and wetlands are adjacent to the stream.

This letter serves as a notice of the proposed construction and a request for any historical information within the boundaries of the site. If any additional information is needed please do not hesitate to contact me at 336.668.0093 or email chay@kleinfelder.com.

Very truly yours,

TRIGON | KLEINFELDER, INC.


Christopher W. Hay, E.I.
Environmental Group Manager


Gail G. Licayan, P.E.
Project Professional

CWH/GGL

Attachment: Site Location Map

j:\share\0420\projects\2009\102111 abbey green c&d treatment and processing facility application\state_letters.doc

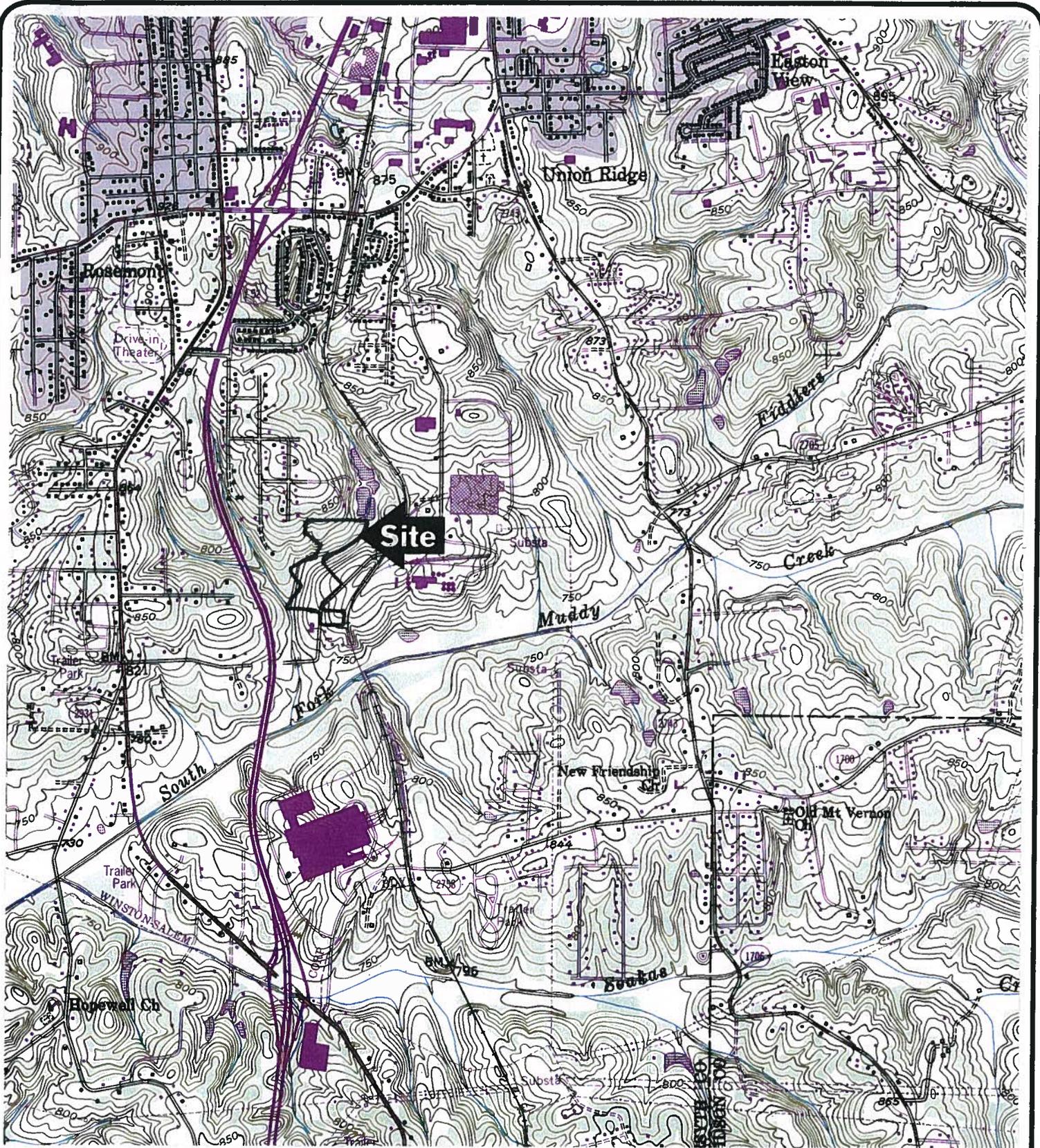


FIGURE 1
SITE LOCATION MAP

ABBAY GREEN, INC.
FORSYTH COUNTY, NORTH CAROLINA



A KLEINFELDER Company

GREENSBORO, NORTH CAROLINA

DATE 1-24-2009

APPROVED BY

SCALE: 1" = 2,000'

SOURCE: USGS 7.5' TOPOGRAPHIC MAP
 WINSTON-SALEM EAST QUADRANGLE

PROJECT NO. 102111

Mr. Thomas,

Please see the attached site plan for the Abbey Green Recycling Facility. The property boundaries are outlined in red and the stream in blue. The site consists of four parcels. As previously indicated, the stream crosses from the eastern property line in the northern parcel to the western property line in the middle two parcels through an existing culvert.

The facility will maintain a 50' buffer between the property line and any processing materials. The proposed construction limits will be maintained outside the 30' stream buffer.

During our site reconnaissance, wetlands were observed near the stream in the northern parcel. This area is inside the 30' stream buffer. In addition, the proposed facility does not utilize the area east of the 20' sanitary sewer easement in the northern parcel which provides an additional buffer to the stream and wetlands.

Should you have any questions or require further information, please contact me.

Thank you,

Gail G. Licayan, P.E.
Project Professional
313 Gallimore Dairy Road
Greensboro, North Carolina
o| 336.668.0093



>>> On 5/1/2009 at 9:32 AM, "Thomas, John T JR SAW"
<John.T.Thomas.JR@saw02.usace.army.mil> wrote:

Gail

Reference is made to your letter faxed to me on April 24, 2009, regarding the proposed Abbey Green Treatment and Processing Center to be located off of Overdale Road, adjacent to a tributary of South Muddy Creek, south of Winston-Salem, in Forsyth County, North Carolina. The letter requested a review of the proposed work and a determination of Department of the Army permit requirements.

We have reviewed the subject documents and determined that, based upon a review of the information provided and available maps, construction of project is likely to cross streams and wetlands within the work corridor, and accordingly, may impact jurisdictional waters of the United States which are subject to our regulatory authority pursuant to Section 404 of the Clean Water Act. Any discharge of excavated or fill material into waters of the United States and/or any adjacent wetlands that may be present within the

project limits will require Department of the Army (DA) permit authorization. The type of DA authorization required (i.e., general or individual permit) will be determined by the location, type, and extent of jurisdictional area impacted by the project, and by the project design and construction limits.

Until additional data is furnished which details the extent of the jurisdictional impacts within the construction limits of the proposed project, we are unable to provide specific comments concerning DA permit requirements.

John Thomas
Raleigh Regulatory Field Office
3331 Heritage Trade Drive, Suite 105
Wake Forest, North Carolina 27587

919 554-4884 ext. 25

-----Original Message-----

From: Gail Licayan [mailto:GLicayan@kleinfelder.com]
Sent: Thursday, April 30, 2009 11:33 AM
To: Thomas, John T JR SAW
Subject: Abbey Green Recycling Center

Good Afternoon,

We are completing an application for a recycling center in Forsyth County (please see the attached letter and map). The Division of Solid Waste Management rules require a response from the USACE be included with the application. If you would provide a letter or response to this email, that would be greatly appreciated.

Thank you for your time,
Gail

Gail G. Licayan, P.E.
Project Professional
313 Gallimore Dairy Road
Greensboro, North Carolina
o| 336.668.0093

<<http://www.kleinfelder.com/>>

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prohibited. If you have received this information in error, please notify the sender immediately.

APPENDIX F



GENERAL CONSTRUCTION SEQUENCE:

1. Obtain Grading/Erosion permit and plan approval from the City of Winston-Salem Inspections.
2. Contact erosion control inspector to establish a pre construction conference and an inspection schedule.
3. Clear site only as necessary to install initial erosion control measures as follows:
 - A. Temporary construction entrance/exit
 - B. Temporary sediment basin
 - C. Temporary diversion berms
 - D. Temporary silt fence
 - E. Temporary slope drains
4. Contact inspectors to review installation of EC measures.
5. Begin clearing, grubbing, and stripping site as required. Stockpile topsoil on-site within areas protected by erosion control measures for later distribution and/or removal.
6. Begin site grading. Maintain erosion control devices in accordance with maintenance plan on this sheet. Install additional erosion control measures as required.
7. Install storm drainage system and utilities. Storm piping shall be installed to the point where it enters each trap. Completion of piping will only be allowed once site has been deemed stable by the erosion control inspector. Install protection around all inlets as storm drain system is installed.
8. Reseed/stabilize disturbed areas immediately after finished grades have been achieved. Temporary vegetative cover shall be provided over disturbed areas which may not be at final grade but which will be left undisturbed for at least 15 days.
9. Continue to maintain erosion control measures until vegetative cover has been established over all disturbed areas and site has been stabilized. Remove erosion control measures only after final inspection and approval by inspector.

EROSION CONTROL MAINTENANCE PLAN

1. Inspect all sedimentation and erosion control devices for stability and function each week and following each rainfall event.
2. Remove silt/sediment from temporary traps when accumulated volume has reached 50% of capacity.
3. Remove accumulated silt/sediment from behind temporary sediment fence when depth exceeds approximately 0.5'. Repair and replace silt fence as necessary.
4. Seed and stabilize temporary diversion berms immediately after construction, including clean water diversion berms. Re-grade/repair berms as required.
5. Contractor shall appoint an onsite inspector and maintain records of inspections in accordance with the provisions of the general NPDES stormwater discharge permit for construction activities.

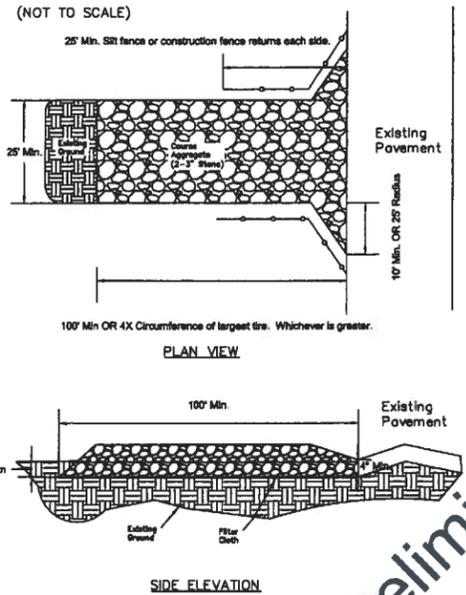
SEEDING

1. Rip the area to be seeded to a minimum depth of 4-8 inches.
2. Remove all loose rock, roots, etc. leaving surface smooth and uniform.
3. Apply seed, agricultural lime, fertilizer, and superphosphate uniformly and mix with topsoil. Application rates below.
4. Seed on a freshly prepared seedbed and cover the seed lightly with seeding equipment or "Outlook" after seeding.
5. Mulch immediately after seeding and anchor mulch.

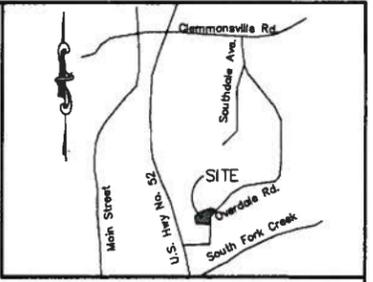
*** Application Rates:**
 Agricultural Limestone - 2 Tons/Acre
 Fertilizer - 10:10:10 of 800-1000 Lbs/Acre
 Superphosphate - 500 Lbs/Acre of 20% Analysis Superphosphate
 Mulch - 1.5 Tons Small Grain Straw/Acre (Approximately 80 Bales)
 Asphalt - Crimp Straw into soil with Machine or tack with liquid Asphalt at 400 Gallons/Acre or Emulsified Asphalt at 300 Gallons/Acre

Plant Mixture	Planting Rates/Acre	Planting Dates
Tall Fescue	80-150 Lbs/Acre	Aug. 15 thru Oct. 15
Tall Fescue	100 Lbs/Acre	Feb. 15 thru May
Tall Fescue & Sericea Lespedeza	50 Lbs/Acre 80 Lbs/Acre	Feb. 15 thru Apr. 30 Scar. Nov. 1 thru Feb. Unscar.
Tall Fescue & Browntop Millet or Sorghum-Sudan Hybrids (Millet & Sorghum must be kept at 10-12" Max. Height)	80 Lbs/Acre 30 Lbs/Acre	July thru August
Tall Fescue & RyeGrass	70 Lbs/Acre 25 Lbs/Acre	Nov. 1 thru Jan.
Weeping Lovegrass	5 Lbs/Acre	May 1 thru June
Common Bermuda Grass	8-12 Lbs/Acre (Hulled) 15-20 Lbs/Acre (Unhulled)	Apr. 15 thru June 30 Feb. 1 thru March

TEMPORARY CONSTRUCTION ENTRANCE/EXIT



- Construction Specifications:**
1. Stone - use course aggregate (2-3 inch stone)
 2. Length - As effective, but not less than 100 feet
 3. Thickness - Not less than eight (8) inches
 4. Width - Not less than 141 width of all points of ingress or egress
 5. Washing - When necessary, wheels shall be cleaned to remove sediment prior to entrance into public right-of-way. When washing is required, it shall be done on a site stabilized with crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch or watercourse through the use of sand, gravel, boards or other approved methods.
 6. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or fouling of adjacent public right-of-way. This may require top dressing with additional stone as conditions warrant and repair and/or cleanup of any material which has tracked onto public right-of-way. Sediment shall be removed immediately.



Location Map Not to Scale
MUDDY CREEK WATERSHED CLASSIFICATION: PHASE II CITY

EROSION CONTROL NOTES:

Total Acreage: 20.800 Ac ± Acres.
 Disturbed Area: 15.887 Ac ± Acres.
 Soils: PcD2, PcF2, Wh, WeD, WeC

LEGEND

- Silt Fence
- Construction Entrance/Exit
- Construction Limits
- Diversions
- Drainage Area Limits
- Sediment Trap Baffles
- Inlet Protection

NOTES:
 THIS MAP IS A REPLICATION OF INFORMATION FROM DEEDS, COUNTY TAX INFORMATION, AND TOPOGRAPHIC INFORMATION TAKEN FROM THE WINSTON-SALEM, FORSYTH COUNTY. NOT AN ACTUAL SURVEY

Overall Erosion Control Plan
 Overdale Recycling Plant

ABBEY GREEN INC.
 4400 Sulas Creek Pkwy, Suite 301
 Winston-Salem, NC 27104
 (336) 784-1890
 bryan@myway.com

Scale: 1" = 100'
 100 50 0 50 100 200

FIELD WORK BY:		CHECKED BY:	
Others		JEB	
Book / Lot	PK#	Dist. Book / Page	
870 0070	6833-68-1886-00	100 100 200	
870 0071	6833-68-1886-00	100 100 200	
870 0072	6833-68-1886-00	100 100 200	
TAX MAP:	CITY:	COUNTY:	
630830	Winston-Salem	Forsyth	
STATE:	DATE:	SHEET NUMBER:	
North Carolina	10-08-2008	1 of 4	
JOB NUMBER:	DRAWN BY:		
08100.051	ATC		



EROSION CONTROL PLAN APPROVED
 GRADING PERMIT REQUIRED PRIOR TO LAND DISTURBING

BEESON ENGINEERING INC.
 ENGINEERS SURVEYORS PLANNERS
 608 HIGH STREET
 WINSTON-SALEM, NC 27101
 TELEPHONE: (336) 748-0071
 FAX: (336) 748-0470
 www.beesonengineering.com

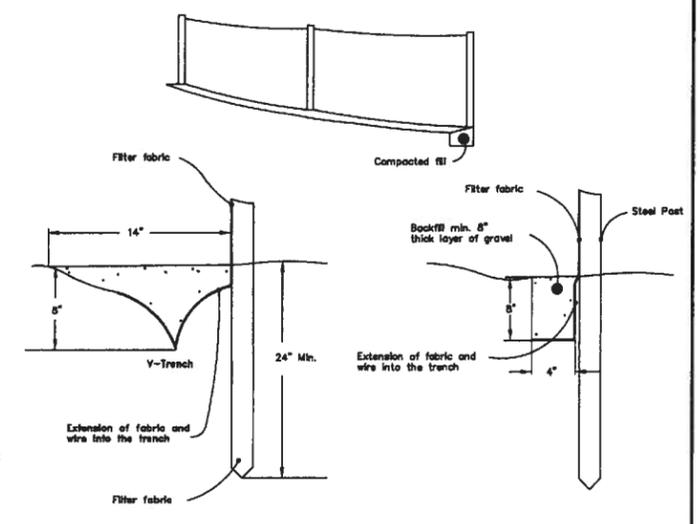
Preliminary - Not Released for Construction



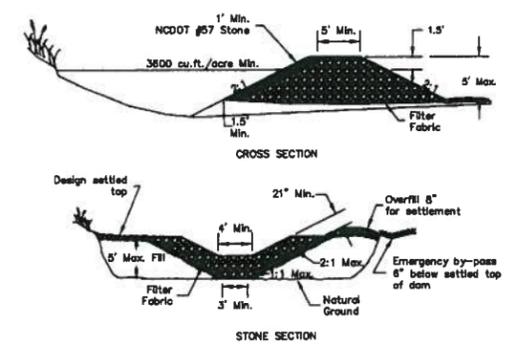
Basin / Trap	Drainage Area	Required Volume	Proposed Max Depth	Required Surface Area	Proposed Spillway Width	Proposed Sed. Trap Size	Baffles
1	2.51 Ac	3900 Cu ft x 2.51 Ac = 9782 Cu ft	14.43 Cu ft x 3.50 ft	0.01 x 8.94 cu = 0.089 Ac	6.00 ft	80' L x 40' W x 3.50' D	2 Baffles
2	2.81 Ac	3900 Cu ft x 2.81 Ac = 10939 Cu ft	18.09 Cu ft x 3.50 ft	0.01 x 8.00 cu = 0.080 Ac	8.00 ft	80' L x 40' W x 3.50' D	2 Baffles
3	4.97 Ac	3900 Cu ft x 4.97 Ac = 19383 Cu ft	30.789 Cu ft x 3.50 ft	0.01 x 22.34 cu = 0.223 Ac	12.00 ft	140' L x 70' W x 3.50' D	2 Baffles
4	4.48 Ac	3900 Cu ft x 4.48 Ac = 17453 Cu ft	29.63 Cu ft x 3.50 ft	0.01 x 18.34 cu = 0.183 Ac	12.00 ft	120' L x 60' W x 3.50' D	2 Baffles

SEDIMENT FENCE (SILT FENCE)

- Construction:**
- Construct the sediment barrier of standard strength or extra strength synthetic filter fabric.
 - Ensure that the height of the sediment fence does not exceed 24" above the ground surface. (Higher fences may impound volumes of water sufficient to cause failure of the structure).
 - Construct the filter fabric from continuous roll cut to the length of the barrier to avoid joints. When joints are necessary, securely fasten the filter cloth only at a support post with 4 feet minimum overlap to the next post.
 - Support standard strength filter fabric by wire mesh fastened securely to the upslope side of the posts. Extend the wire mesh support to the bottom of the trench. Fasten the wire reinforcement, then fabric on the upslope side of the fence post. Wire or plastic zip ties should have minimum 50 pound tensile strength.
 - When a wire support fence is used, space posts a maximum of 8 feet apart. Support posts should be driven into the ground a minimum of 24 inches.
 - Extra strength filter fabric with 6 foot post spacing does not require wire mesh support fences. Securely fasten the filter fabric directly to posts. Wire or plastic zip ties should have minimum 50 pound tensile strength.
 - Excavate a trench approximately 4 inches wide and 8 inches deep along the proposed line of the posts and upslope from the barrier (Fig. 5.82a).
 - Backfill the trench with compacted soil or gravel placed over the filter fabric.
 - Do Not attach filter fabric to trees.
- Maintenance:**
- Inspect sediment fences at least once a week and after each rainfall. Make any repairs immediately.
 - Should the fabric of a sediment fence collapse, tear, decompose, or become ineffective replace it promptly. Replace backup every 60 days.
 - Remove sediment deposits as necessary to provide adequate storage volume for the next rain and to reduce pressure on the fence. Take care to avoid undermining the fence during cleanout.
 - Remove all fencing materials and unstable sediment deposits and bring the area to grade and stabilize it after the contributing drainage area has been properly stabilized.



SEDIMENT TRAP



- Construction:**
- Clear, grub and strip the embankment of all vegetation and root mat. Remove all surface soil containing high amounts of organic matter and topsoil or dispose of it properly. Haul all objectionable material to the assigned disposal area.
 - Ensure that fill material for embankment is free of root, woody vegetation, organic matter, and other objectionable material. Place the fill in lifts not to exceed 9 inches and machine compact it. Overfill the embankment 6 inches to allow for settlement.
 - Construct the outlet section in the embankment. Protect the connection between the riprap and the soil from piping by using filter fabric or a key-way cutoff trench between the riprap structure and the soil.
 - Place the filter fabric between the riprap and soil. Extend the fabric the spillway foundation and sides to the top of the dam; or
 - excavate a keyway trench along the centerline of the spillway foundation extending up the sides to the height of the dam. The trench should be at least 2 feet deep and 2 feet wide with 1:1 side slopes.
 - Clear the pond area below the elevation of the crest of the spillway to facilitate sediment cleanout.
 - All cut and fill slopes should be 2:1 or flatter.
 - Ensure that the stone (drainage) section of the embankment has a minimum bottom width of 3 feet and maximum side slopes of 1:1 that extend to the bottom of the spillway section.
 - Construct the minimum finished stone spillway bottom width, as shown on the plans, with 2:1 side slopes extending to the top of the overfilled embankment. Keep the thickness of the sides of the spillway outlet structure at a minimum of 21 inches. **The weir must be level and constructed to grade to ensure design capacity.**
 - Material used in the stone section should be a well-graded mixture of stone with a d50 size 9 inches (Class B Erosion Control Stone is recommended) and a maximum stone size of 14 inches. The stone may be machine placed and the smaller stones worked into the voids of the larger stones. The stone should be hard, angular, and highly weather-resistant.
 - Discharge inlet water into the basin in a manner to prevent erosion. Use temporary slope drains or diversions with outlet protection to divert sediment-laden water to the upper end of the pool area to improve basin trap efficiency.
 - Ensure that the stone spillway outlet section extends downstream past the toe of the embankment until stable conditions are reached and outlet velocity is acceptable for the receiving stream. Keep the edges of the stone outlet structure flush with the surrounding ground and shape the center to confine the outflow structure.
 - Direct emergency bypass to natural, stable areas. Locate bypass outlet so that flow will not damage the embankment.
 - Stabilize the embankment and all disturbed areas above the sediment pool and downstream from the trap immediately after construction.
 - Show the distance from the top of the spillway to the sediment cleanout level (one-half the design depth) on the plans and mark it in the field.
 - Install a minimum of three porous baffles to evenly distribute flow across the basin and reduces turbulence.
- Maintenance:**
- Inspect sediment trap at least weekly and after each period of significant rainfall. Clean sediment and restore the trap to its original dimensions when sediment has accumulated to one-half the design depth of the trap. Place the sediment that is removed in the designated disposal area and replace the contaminated part of the gravel facing.
 - Check the structure for damage from erosion or piping. Periodically check the length of the spillway to ensure it is a minimum of 1.5 feet below the low point of the embankment. Immediately fill any settlement of the embankment to slightly above original grade. **Any riprap displaced from the spillway must be replaced immediately.**
 - After all sediment-producing areas have been permanently stabilized, remove the structure and all unstable sediment. Smooth the area to blend with the surrounding areas and stabilize properly.

LEGEND

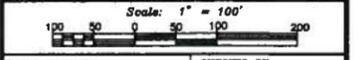
- Silt Fence
- Construction Entrance/Exit
- Construction Limits
- Diversions
- Drainage Area Limits
- Sediment Trap Baffles
- Inlet Protection

NOTES:
 THIS MAP IS A COMPILATION OF INFORMATION FROM DEEDS, COUNTY TAX INFORMATION, AND TOPOGRAPHIC INFORMATION TAKEN FROM THE WINSTON-SALEM, FORSYTH COUNTY.

NOT AN ACTUAL SURVEY

Erosion Control Installation
 Overbank Recycling Plant

ABBEY CREEN INC.
 4400 Sulas Creek Pkwy, Suite 301
 Winston-Salem, NC 27104
 (336) 784-1890
 bryant@mcgraw.com



FIELD WORK BY	CHECKED BY:
Others	JEB
Block / Lot	Dist. Book / Page
8771 0274	1182-02 1888-00
8771 0275	1182-02 1888-00
8771 0276	1182-02 1888-00

TAX MAP:	CITY:	COUNTY:
680830	Winston-Salem	Forsyth
STATE:	DATE:	SHEET NUMBER:
North Carolina	10-06-2008	2 of 4
JOB NUMBER:	DRAWN BY:	
08100.051	ATC	



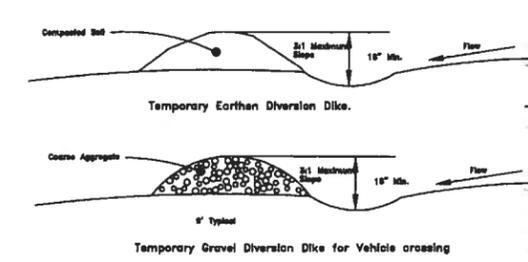
EROSION CONTROL PLAN APPROVED

BEEDON ENGINEERING INC.
 ENGINEERS SURVEYORS PLANNERS
 503 HIGH STREET
 WINSTON-SALEM, NC 27101
 TELEPHONE: (336) 748-0071
 FAX: (336) 748-0470
 www.beedoneng.com

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TEMPORARY DIVERSIONS:

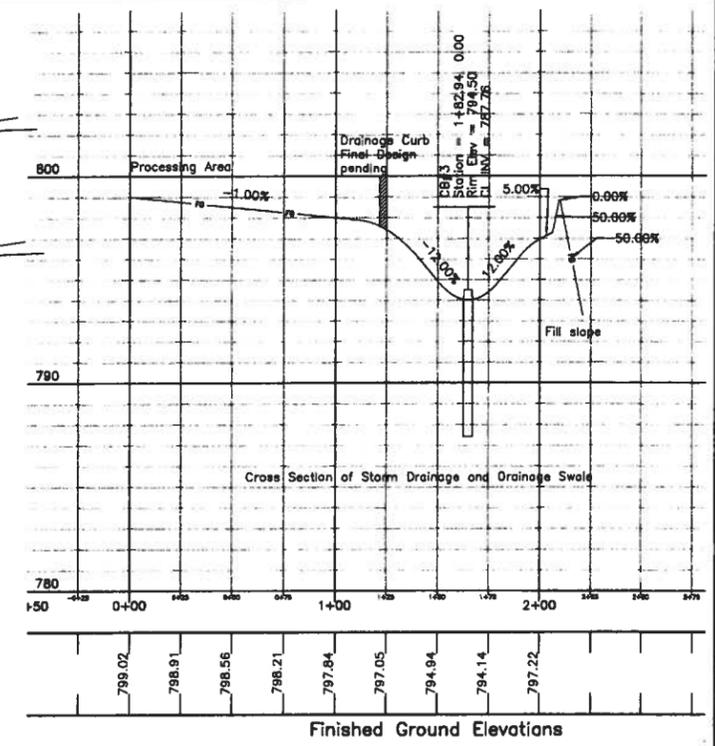


Construction Specifications:

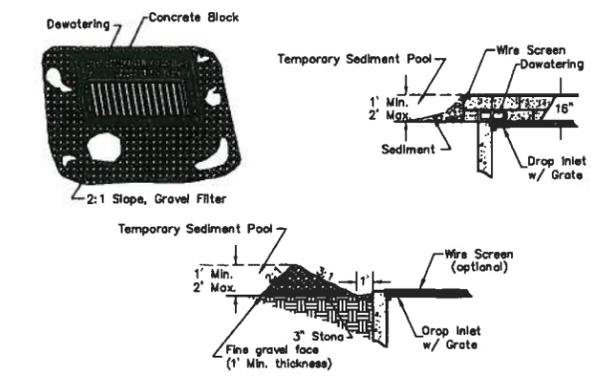
1. Remove and dispose of all trees, brush, stumps and other objectionable material.
2. Ensure that the minimum constructed cross-section meets all design requirements.
3. Ensure that the top of the dike is not lower at any point than the design elevation plus the specified settlement.
4. Provide sufficient room around diversion to permit machine regrading and cleanup.
5. Vegetate the ridge immediately after construction, unless it will remain in place less than 30 days.

Maintenance:

Inspect temporary diversions once a week and after every rainfall. Immediately remove sediment from flow area and repair the diversion ridges. Carefully inspect outlets and make timely repairs as needed. When the area protected is permanently stabilized, remove the ridge and channel to blend with the natural ground surface and stabilize appropriately.



INLET PROTECTION



Construction:

1. Lay one block on each side of the structure on its side in the bottom row to allow pool drainage. The foundation should be excavated at least 2 inches below the crest of the storm drain. Place the bottom of blocks against the edge of the storm drain for lateral support and to avoid washouts when overflow occurs. If needed, give lateral support to subsequent rows by placing 2 x 4 wood studs through block openings.
2. Carefully fit hardware cloth or comparable wire mesh with 1/2 inch openings over all block openings to hold gravel in place.
- Use clean gravel, 3/4 to 1/2 inch in diameter, placed 2 inches below the top of the block on a 2:1 slope 3. or flatter and smooth it to an even grade. DOT # 57 washed stone is recommended.
4. If only stone and gravel are used, keep the slope toward the inlet no steeper than 3:1. Leave a minimum 1-ft. wide level stone area between the structure and around the inlet to prevent gravel from entering inlet. On the slope toward the inlet, use stone 3 inches in diameter or larger. On the slope away from the inlet use 1/2-3/4-inch gravel (NCDOT #57 washed stone) at a minimum thickness of 1 ft.

Maintenance:

Inspect the barrier after each rain and make repairs as needed. Remove sediment as necessary to provide adequate storage volume for subsequent rains. When the contributing drainage area has been adequately stabilized, remove all materials and any unstable soil, and either salvage or dispose of it properly. Bring the disturbed area to proper grade, then smooth and compact it. Appropriately stabilize all bare areas around the inlet.

LEGEND

- Silt Fence
- Construction Entrance/Exit
- Construction Limits
- Diversions
- Drainage Area Limits
- Sediment Trap Baffles
- Inlet Protection

NOTES:

THIS MAP IS A REPLICATION OF INFORMATION FROM DEEDS, COUNTY TAX INFORMATION, AND TOPOGRAPHIC INFORMATION TAKEN FROM THE WINSTON-SALEM, FORSYTH COUNTY

NOT AN ACTUAL SURVEY

**Grading and Storm Sewer Plan
Overdale Recycling Plant**

ABBEY GREEN INC.
4400 Siles Creek Pkwy, Suite 301
Winston-Salem, NC 27104
(336) 784-1890
bryan@myway.com

Scale: 1" = 100'

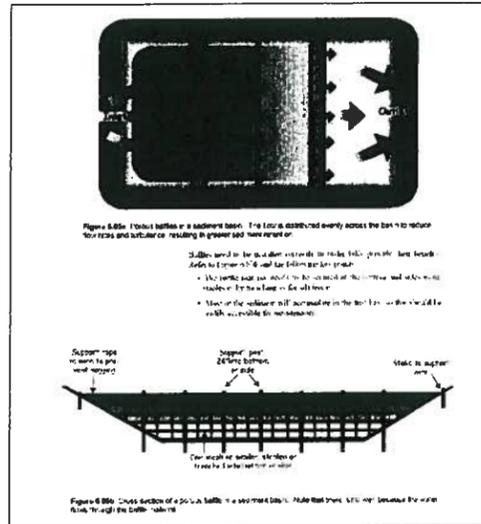
FIELD WORK BY		CHECKED BY:	
Others		JEB	
Block / Lot	PIN	Deed Book / Page	
871 0074	8833-33-1828.00	20 076 00 077	
871 0075	8833-33-1829.00	20 076 00 078	
871 0076	8833-33-1830.00	20 076 00 079	
TAX MAP:		COUNTY:	
630830		Forsyth	
STATE:		DATE:	
North Carolina		10-06-2008	
JOB NUMBER:		DRAWN BY:	
08100.051		ATC	
		SHEET NUMBER:	
		3 of 4	



Site	Cut	Fill	Net	Site	Cut	Fill	Net
Main Site (Final Grading)	6682 Cu. Yd.	126577 Cu. Yd.	119895 Cu. Yd.<Fill>	Main Site (Preliminary grading)	6410 Cu. Yd.	90447 Cu. Yd.	84038 Cu. Yd.<Fill>
Storage Site [South]	14762 Cu. Yd.	0 Cu. Yd.	14762 Cu. Yd.<Cut>	Storage Site [South]	14762 Cu. Yd.	0 Cu. Yd.	14762 Cu. Yd.<Cut>
Storage Site [North]	75870 Cu. Yd.	0 Cu. Yd.	75870 Cu. Yd.<Cut>	Storage Site [North]	75870 Cu. Yd.	0 Cu. Yd.	75870 Cu. Yd.<Cut>
			28263 Cu. Yd.<Fill Needed>				5594 Cu. Yd.<Excav Cut>

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SEDIMENT TRAP BAFFLES



Construction Specifications:

1. Grade the basin so that the bottom is level front to back and side to side.
2. Install posts or saw horses across the width of the sediment trap (Practice 6.82, Sediment Fence).
3. Steel posts should be driven to a depth of 24 inches, spaced a maximum of 4 feet apart, and installed up the sides of the basin as well. The top of the fabric should be 8 inches higher than the invert of the spillway. Tops of baffles should be 2 inches lower than the top of the berms.
4. Install at least three rows of baffles between the inlet and outlet discharge point. Basins less than 20 feet in length may use 2 baffles.
5. When using posts, add a support wire or rope across the top of the measure to prevent sagging.
6. The bottom and sides of the fabric should be anchored in a trench or pinned with 8-inch erosion control matting staples.
7. Do not splice the fabric, but use a continuous piece across the basin.

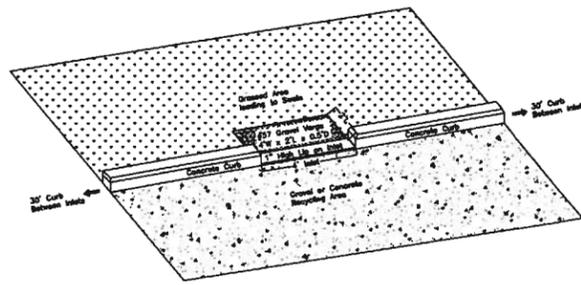
Maintenance:

Inspect baffles at least once a week and after each rainfall. Make any required repairs immediately. Be sure to maintain access to the baffles. Should the fabric of a baffle collapse, tear, decompose, or become ineffective, replace it promptly.

Remove sediment deposits when it reaches half full to provide adequate storage volume for the next rain and reduce pressure on the baffles. Take care to avoid damaging the baffles during cleanout. Sediment depth should never exceed half the designed storage depth.

After the contributing drainage area has been properly stabilized, remove all baffle materials and unstable sediment deposits, bring the area to grade, and stabilize it.

SEDIMENT CURB AND GRAVEL VERGE OUTLET



Construction Specifications:

1. Install curbline along concrete or gravel processing area. 4' inlet areas should be located every 30' of curb length.
2. Ensure inlet has a 1" lip to drop heavy sediments prior to water flowing into inlet.
3. Install #57 gravel verge behind curb inlet to further collect fine sediments.
4. Sod area immediately behind and around gravel verge. Seed remaining area leading into drainage swales.

Maintenance:

Clean out sediments from curb line after rain events. Bi-annually refresh gravel verge to remove vegetation and loosen/replace gravel. Regularly mow grassed swale area to a minimum of 3".

Preliminary - Not Released for Construction



Erosion Control Details Overdale Recycling Plant	
ABBEY GREEN INC. 4400 Sulas Creek Pkwy, Suite 301 Winston-Salem, NC 27104 (336) 784-1890 bryanlj@myaway.com	
NOT TO SCALE	
FIELD WORK BY: Others	CHECKED BY: JEB
Block / Lot 87th 007E 6833-68-1830-00 87th 011A 6833-68-1830-00 87th 007U 6833-68-1830-00	Deed Book/Page 68 276 25 3070 68 276 25 3170 68 276 25 3170
TAX MAP: 630830	CITY: Winston-Salem COUNTY: Forsyth
STATE: North Carolina	DATE: 10-06-2008 SHEET NUMBER: 4 of 4
JOB NUMBER: 08100.051	DRAWN BY: ATC
BEESON ENGINEERING INC. ENGINEERS SURVEYORS PLANNERS 503 HIGH STREET WINSTON-SALEM, NC 27101 TELEPHONE: (336) 748-0071 FAX: (336) 748-0470 www.beesonengineering.com	

APPENDIX G

OPERATIONS MANUAL

**ABBAY GREEN RECYCLING CENTER
5030 OVERDALE ROAD
WINSTON-SALEM, NORTH CAROLINA**

Prepared for:

Abbey Green, Inc.



ABBEY GREEN RECYCLING CENTER

OPERATIONS MANUAL

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Figure
1 site Plan

1.0 GENERAL FACILITY OPERATIONS

1.1 Overview

This Operations Manual was prepared for operations of the Abbey Green Recycling Center facility (Permit No. XXX) located at 5030 Overdale Road in Winston-Salem, North Carolina. This document discusses the operation of the recycling facility and other solid waste management activities. Refer to the attached site plan for the general layout of the facility.

All personnel involved with the management or supervision of the facility shall review and update the documents as needed. A copy of this Operations Manual will be maintained at the facility and will be available for use at all times.

1.2 Contact Information

All correspondence and questions concerning the operation of the Abbey Green Recycling Center should be directed to the contact listed below. For fire or police emergencies, dial 911.

Abbey Green, Inc. (Operator)
4400 Silas Creek Parkway | Suite 301
Winston-Salem, North Carolina 27104
Phone: 336.345.7793
Contact: Mr. Jim Bryan
Email: jbryanlj@gmail.com

1.3 Facility Operating Hours

Proposed hours of operation will be 7:00 A.M. to 11:00 P.M. Monday through Friday and Saturday 7AM to 4PM. The facility will normally receive C&D debris from haulers and construction sites from 7:00 AM to 6:00 PM Monday through Friday. No debris will be accepted on Saturday. The facility will be closed on Sundays.

In the event of disaster or other emergency situations, the supervisor may request approval from the DWM regional office to allow additional temporary operating hours.

1.4 Access Control

Access to process and storage areas of the facility will be controlled by a combination of fences, gates, and natural barriers and strictly enforced operating hours. An attendant will be on duty at all times when the facility is open for public use to enforce access restrictions.

1.4.1 Physical Restraints

The site will be accessed by an entrance from the private road to the northwest of Overdale Road. Waste will be screened at the scales by the scale house operator. All waste will have been weighed prior to being processed on the site. The entrance will have a gate which will be securely locked during non-operating hours.

1.4.2 Security

Haulers will be stopped at the scale house for scanning and photographic documentation of open loads. Drivers will be required to identify the contents of the load and origin. Incoming loads on closed trailers or trucks will be inspected upon unloading at the tipping floor. Unacceptable materials will leave the facility in the vehicle that brought them. Frequent inspections of gates and fences will be performed by facility personnel. Evidence of trespassing, vandalism, or illegal activities will be reported to the Owner. The facility will be securely locked during non-operating hours.

1.5 Signage

Prominent signage containing the information required by the North Carolina Division of Waste Management (DWM) will be placed at the main facility entrance. The signs will provide information on operating hours, operating procedures, and acceptable wastes. Service and maintenance roads for use by operations personnel will be clearly marked and barriers (e.g., traffic cones, barrels, etc.) will be provided as required.

1.6 Personnel Requirements

The anticipated personnel requirements for operation and maintenance of the facility are listed in the following table:

DESCRIPTION	PRIMARY FUNCTION (ALLOCATION)
1) General Manager & Office Staff (5)	Overall management of the facility
2) Scale house attendant (1)	Receiving and weight for incoming loads
3) Operators (4)	Management of tipping floor and recycling areas
4) Commercial Drivers (4) *	Transfer of processed C&D material
5) Labor (12)	General labor and operational staff around the site

* Commercial drivers subject to change in response to actual volume of debris received.

At least one member of the supervisory staff will be experienced in management of the operations. Each facility employee will participate in an annual training course (led by supervisory staff). As part of this training, personnel learn to recognize loads which may contain prohibited wastes. A minimum number of personnel will be required to operate the facility efficiently. A scale house attendant, laborers to work on the tipping floor and processing line(s), equipment operators, and a site supervisor are anticipated to be employed for the daily operation of the facility.

1.7 Health and Safety

All aspects of the operation of the facility were developed with the health and safety of operations staff, customers, and neighbors in mind. Prior to commencement of operation of the facility, a member of the operating staff will be designated as the site safety officer. This individual, together with the facility's management will modify the site safety and emergency response program to remain consistent with National Solid Waste Management Association and Occupational Safety and Health Administration (OSHA) guidance.

Processing equipment will be appointed with protection from moving parts, pinching, electrical connections, and sharp objects. Automated and/or manual emergency shut-off controls will also be provided. Safety devices for mobile equipment will include equipment rollover protective cabs, seat belts, audible reverse warning devices, hard hats, safety shoes, and first aid kits. Equipment

exhaust should be vented at an appropriate height in excess of the breathing zone. Other personal protective equipment (gloves, hearing protection, coveralls, or boots) will be required based on an employee's duties. All personnel will be encouraged to complete the American Red Cross Basic First Aid course. All personnel should be familiar with the equipment and duties of their position such that they will be able to identify potential hazards.

Each facility employee will participate in monthly safety "lunch pail" meetings with topics relevant to worker safety at the Abbey Green facility. Each facility employee will participate in an annual training course in health and safety (led by supervisory staff). All training shall be documented and attested to by signatures of the trainer and trainee.

Each employee of Abbey Green will be required to submit to random drug and alcohol tests by a third party testing company.

The following are some general requirements for the health and safety of workers at the Abbey Green Recycling Center.

1.7.1 Personal Hygiene

The following items are recommended as a minimum of practice:

- ◆ Wash hands before eating, drinking, or smoking.
- ◆ Wear appropriate personal protective equipment.
- ◆ Wash, disinfect, and bandage any cuts, no matter how small. Any break in the skin can become a source of infection.
- ◆ Maintain fingernails closely trimmed and clean (dirty nails can harbor pathogens).

1.7.2 Personal Protective Equipment

Prior to the issuance of personal protective equipment (PPE) a job hazard analysis will be performed by a qualified industrial hygienist. PPE must be evaluated as to the level of protection necessary for particular operating conditions and then made available to facility employees. The list below includes PPE typically used and/or required in a solid waste management facility workplace.

- ◆ Safety shoes with steel toes.
- ◆ Hearing protection should be used in areas where exposure to high decibel noise levels is expected.
- ◆ Dust filter masks.
- ◆ Hard hat.
- ◆ Abrasion-resistant gloves.
- ◆ High-visibility vest and/or other clothing.

Following use, PPE should be disposed of or adequately cleaned, dried, or readied for reuse.

1.7.3 Mechanical Equipment Hazard Prevention

The loaders and other equipment should be operated with care and caution. All safety equipment such as horns, backup alarms, and lights shall be functional or taken out of service until repaired. A Lockout-Tagout program shall be used to identify equipment in need of or under repair and ensure that operation is “off-limits” prior to maintenance or repair. All operators shall be trained in the proper operation of equipment.

1.7.4 Employee Health and Safety

Review the following periodically with each employee:

- ◆ Consider safety first when planning and conducting activities.
- ◆ Post emergency contact phone numbers.
- ◆ Post route to nearest emergency medical facility.
- ◆ Post evacuation plan.
- ◆ Provide easy and visible access to the Right to Know materials.
- ◆ Provide easy and visible access to the first aid kits and fire extinguishers.

1.7.5 Physical Exposure

Facility personnel may come in contact with fluids, solids, and airborne constituents found at the recycling center. Routine training should be conducted regarding the individual and collective materials used in the recycling process and their associated hazards. Training concerning safe

work practices around these potential exposures should include use of PPE and proper disposal procedures.

1.8 Communications

The scale house and office have telephones in case of emergency and to conduct day-to-day business. The scale house and office will communicate with equipment operators and supervisors at the facility by radio.

In an emergency the facility will sound a horn and employees will be trained to congregate at a rally point. Emergency telephone numbers will be displayed in the scale house and office.

1.9 Utilities

Electrical power, water, and telephone will be provided at the scale house and office. Restrooms will be provided at the site.

1.10 Litter Control

The perimeter fence will act as a barrier to keep litter contained within the site. Facility operators will inspect materials entering the facility. If unacceptable materials are delivered to the facility, the operators will deny the load or unacceptable materials will be returned on the same truck. De minimus litter sorted out during processing will be contained in an appropriate receptacle for delivery to an approved disposal facility.

1.11 Fire Prevention and Control

Due to the risk of fire and health and safety of personnel, incentives will be in place to discourage smoking on the premises. However, smoking is limited to personnel breaks and only in designated areas screened and located well away from the tipping floor, the processing line, and the storage of processed materials.

The possibility of fire within the facility or a piece of equipment must be anticipated in the daily operation of the facility. Fire suppression equipment shall be provided to control accidental fires and arrangements have been made with the local fire protection agency to ensure any incident at the facility will be handled with the appropriate equipment. A combination of factory installed fire

suppression systems and/or portable fire extinguishers will be operational on all heavy pieces of equipment at all times. For larger or more serious outbreaks, local fire and emergency agencies will be called (dial 911).

Abbey Green, Inc will verbally notify the DWM within 24 hours of discovery of a fire within the recycling area. Additionally, written documentation describing the fire, the actions carried out to extinguish the fire, and a strategy for preventing future occurrences will be provided to the DWM within fifteen days following any such occurrence.

1.12 Severe Weather Conditions

Unusual weather conditions can directly affect the operation of the facility. Some of these weather conditions and recommended operational responses are as follows:

1.12.1 Ice Storms

An ice storm can make access to the facility dangerous, prevent movement and, thus, may require closure of the facility until the ice is removed or has melted. Additionally, the "processing line" is powered by electricity making continued operation during weather related power outages very difficult.

1.12.2 Electrical Storms

The open recycling areas of the facility are susceptible to the hazards of an electrical storm. If necessary, recycling activities will be temporarily suspended during such an event. To guarantee the safety of all field personnel, refuse will be taken in rubber-tired vehicles.

1.12.3 Windy Conditions

Facility operations during a particularly windy period may require that the active tipping area and sorting operations be temporarily suspended.

1.12.4 Violent Storms

In the event of hurricane, tornado, or severe summer and/or winter storm warning issued by the National Weather Service, facility operations may be temporarily suspended until the warning is lifted.

1.13 Record Keeping Program

The Owner will maintain the following information in an operating record at the landfill:

- 1) Debris inspection records,
- 2) Tonnage records including source of generation and scale certifications,
- 3) List of generators and haulers that have attempted to dispose of restricted wastes,
- 4) Employee training procedures and records of training completed,
- 5) Annual facility reports (to be submitted by August 1 of each year for the previous July 1 through June 30).

Industry specific software will be used for record keeping. Operating records will be presented, upon request, to the DWM for inspection. A copy of the current Operations Manual will be available at the facility for use at all times.

2.0 DEBRIS HANDLING OPERATIONS

2.1 Overview

This section describes the required debris handling operations for the Abbey Green Recycling Center facility. In addition to the C&D debris received at this facility, the facility also processes new construction debris such as lumber, ferrous and non-ferrous metals, etc. These materials are stored at the facility until there are sufficient quantities for pick up or delivery to various recycling contractors or end-users. {MOVED TO 2.5.1} Materials that are susceptible to degradation due to rain will be covered with waterproof tarps.

2.2 Acceptable Debris

The following debris may be recycled at the facility:

- ◆ Wood (treated, untreated, and engineered wood products),
- ◆ Agricultural processing wastes,
- ◆ Aggregates (concrete, asphalt pavement, brick, and block),
- ◆ Drywall,
- ◆ Roofing materials,
- ◆ Metals,
- ◆ White goods,
- ◆ Plastics (poly vinyl chloride, poly ethylene, high density poly ethylene, and ABS plastics),
- ◆ Clean baled cardboard,
- ◆ Carpet and padding, and
- ◆ Other wastes as approved by the Solid Waste Section of the Division of Waste Management.

2.3 Prohibited Wastes

Only wastes, as defined in Section 2.2 above or approved by the DWM may be accepted. No other wastes may be accepted.

2.4 Debris Screening Program

In order to assure that prohibited wastes are not entering the facility, a screening program will be implemented. Debris entering the facility will be screened by trained personnel. These individuals have been trained to recognize indications of suspicious wastes, including: hazardous placarding or markings; liquids, powders, or dusts; sludges; bright or unusual colors; drums or commercial size containers; and “chemical” odors. The screening program for visual and olfactory characteristics of prohibited wastes is an ongoing part of the facility operation.

All vehicles must stop at the scale house located at the entrance of the facility and visitors are required to sign-in. All debris transportation vehicles are weighed and the content of the load assessed by the scale attendant’s inquiry, photographic equipment, and scanners. The scale attendant requests from the driver of the vehicle a description of the debris it is carrying to ensure that unacceptable waste is not allowed into the facility. The attendant then visually checks the vehicle as it crosses the scale. Signs informing users of the acceptable and unacceptable types of waste are posted at the scale house. Once passing the scales, the vehicles are routed to the tipping floor.

An attendant trained to identify wastes that are unacceptable will inspect the debris discharged at the tipping floor. If unacceptable waste is found, the load will be isolated, reloaded, and the generator/hauler will be logged and escorted out of the facility. Periodically, minor wastes may be encountered while sorting and processing (i.e. random bag of household waste, litter, etc.). Containers will be staged onsite such that these minor wastes will be placed in the container to be disposed at an appropriate licensed facility.

2.5 Facility Operations

2.5.1 Operating Capacity

The Operating Capacity for the recycling facility is estimated to be approximately 450 tons per day of C&D debris. The anticipated proportions of various debris is that of typical C&D materials:

- ◆ Wood (28%),
- ◆ Aggregates (25%),
- ◆ Drywall (14%),

- ◆ Roofing Materials (13%),
- ◆ Metals (5%),
- ◆ Plastics (5%),
- ◆ Cardboard (3%), and
- ◆ Other Wastes as approved by the Solid Waste Section of the Division of Waste Management (7%).

Processed materials will not be stored on site for more than 90 days.

2.5.2 Service Area

The anticipated service area for the facility is generally anticipated to be concentrated in Forsyth County and its surrounding counties. Debris will not be accepted from out-of-state.

2.5.3 Disposal Facilities

The anticipated disposal facilities for the recycling center (subject to change) include any facility in the State of North Carolina that holds a solid waste permit for the specific waste disposed.

The major recipient of processed debris that can not be recycled will be the County facility at Old Salisbury Road.

A municipal solid waste transfer station is located adjacent to the site. Per approval from the Winston-Salem/Forsyth County Utilities Commission and the DWM, some of the non-recycled materials may be transferred for disposal through this facility.

A small portion of the recycled inert and aggregate-like material may be retained on site as beneficial fill to improve the site topography.

In the event that new disposal facility agreements are negotiated, the facility will provide a notice to the Division of Waste Management within 30 calendar days.

2.5.4 Mobile Equipment Requirements

The Owner will maintain onsite equipment required to perform the necessary recycling activities. Periodic maintenance of all equipment and

minor and major repair work will be performed within designated maintenance zones or off-site. Generally, loading, hauling, dumping, mixing, and lift equipment may be used for various tasks at the facility.

The anticipated equipment requirements for operation and maintenance of the site are listed in the following table:

DESCRIPTION	PRIMARY FUNCTION (ALLOCATION)
1) Excavator	Loading
2) Front End Loader(s)	Loading, recycling, storage, and site cleanup
3) Transfer Trucks (4) *	Collection and transfer of C&D material

* Commercial drivers subject to change in response to actual volume of debris received.

2.6 Recycling Operations

The facility's recycling area is used to store, separate, and contain commingled recyclable materials or pre-sorted materials such as new construction materials. The facility will utilize equipment as defined in Section 2.5.4 to facilitate hand sorting of materials and bins for storage.

2.6.1 General Procedures

The transfer operations will be conducted in accordance with the approved Operation Plan and conditions of the Solid Waste Permit issued by the DWM.

Facility operations are anticipated as follows:

- 1) Collection vehicles delivering debris to the facility will enter through the main entrance.
- 2) Pass by and over the scale house and scales for weight.
- 3) Continue along the access road until reaching the tipping floor.
- 4) Once the vehicle is in position, the debris load will be discharged.

2.6.2 Recycling/Source Separation

As a means of capturing recyclable materials and/or debris screening, source separation will be conducted as follows:

- 1) The track hoe, loader, or laborers will separate materials to be recycled and/or processed. It is anticipated that most of the recyclables and materials to be separated will arrive at the facility as new construction debris.
- 2) Materials to be recycled and/or processed may stay on the floor (not in containers) for no more than 48 hours or two (2) working days.
- 3) Concrete (cement and asphaltic/bituminous): may be delivered and stockpiled at the limits of the recycling area. The concrete debris will be crushed and subsequently stockpiled in this same area until it is removed from the site for sale as fill, aggregate, etc. as markets allow.

2.6.3 Containers

Containers, generally 8'x20' or 8'x15', used for holding recyclables and unacceptable waste will be stored in the recycling area. The containers will be removed from the processing area to designated storage areas as they are filled.

2.6.4 Markets

The final destination of the recyclable materials may vary depending upon market prices for such materials. In general, materials which have valid markets will be recycled; however, markets shall fluctuate. In any case, no more than one load, respective to the material, shall be stored at any one time and in no case more than 90 days. Recycled materials sensitive to moisture and/or likely to generate leachate shall be covered with tarpaulins.

Anticipated end markets for the recyclable materials are as follows:

Metals	Delivered to local metals recycling facility
Wood	Facility near site for boiler fuel
Concrete and Aggregates	Bricks may be banded and palletized for sale to landscaping contractors; concrete, asphalt, and broken brick and block will be crushed and stockpiled until it is removed from the site for

Drywall	sale as fill, aggregate, etc. as markets allow Process onsite and sell raw gypsum or soil amendment as markets allow
Carpeting and Padding	Local recycling facility, as markets allow
Baled Plastic	Delivered to local recycled plastics company
Baled Cardboard	Sale in local market for recycled paper products
Shingles	If certified as asbestos-free, may be ground for use in asphalt manufacturing

3.0 ENVIRONMENTAL MANAGEMENT

3.1 Overview

This section reviews the overall environmental management tasks required for the successful operation of the facility.

3.2 Surface Water Control

As used herein, the definition of "surface water" is water which results from precipitation or site run-on that has not contacted the debris.

Proper control of surface water will accomplish the following goals:

- ◆ Prevent run-on of surface water into debris handling areas;
- ◆ Prevent the run-off of surface water that has come into contact with the debris (i.e. leachate);
- ◆ Limit the erosion caused by surface waters; and
- ◆ Limit sediments carried off-site by surface waters.

An erosion and sedimentation control plan has been approved for the site by Forsyth County. This plan describes both short and long term engineered features and practices for preventing erosion and controlling sedimentation at this site.

Erosion control measures have been designed/engineered within the drainage channels and at points of stormwater discharge. The erosion control maintenance plan includes the following:

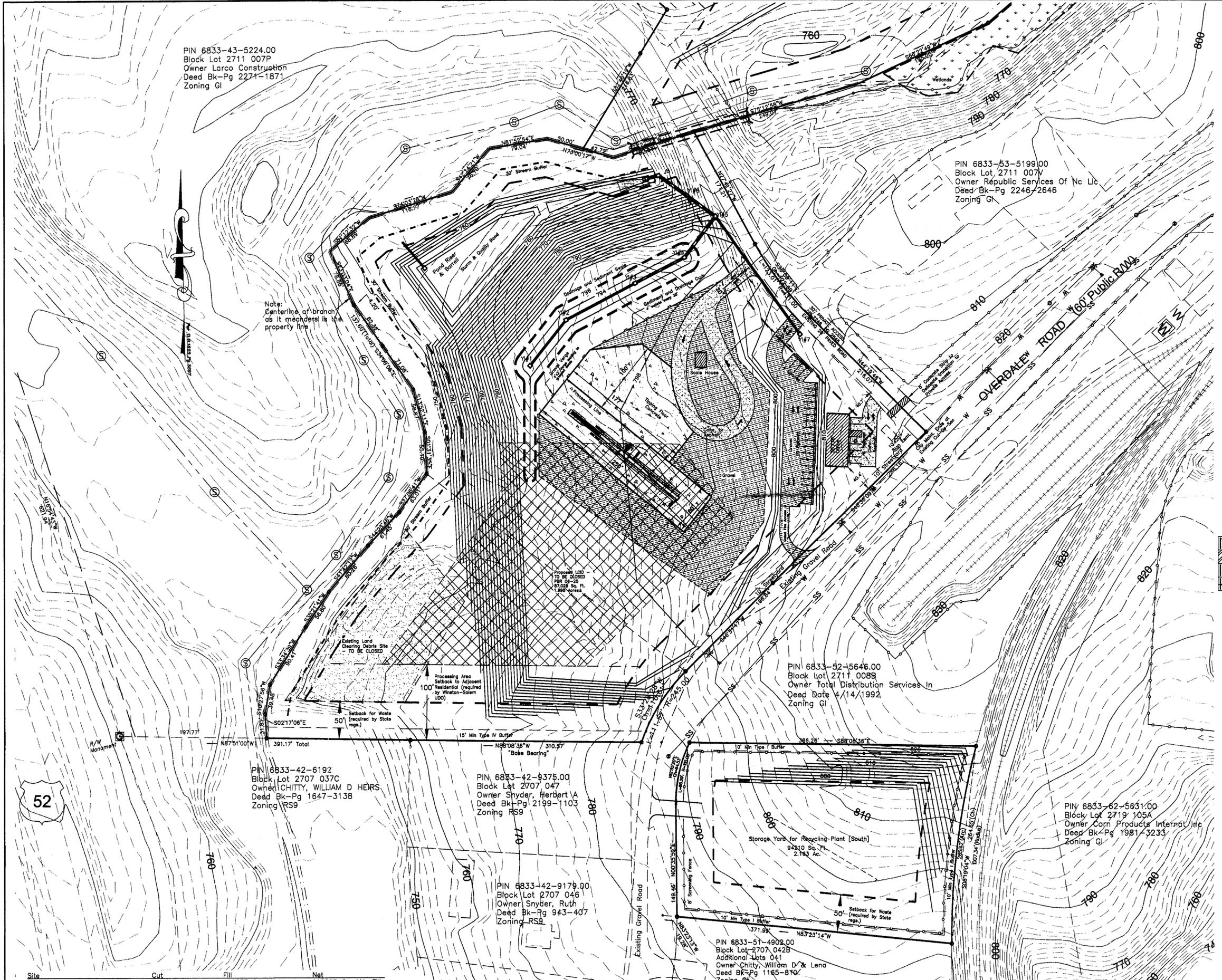
- 1) Inspect all sedimentation and erosion control devices for stability and function each week and following each rainfall event.
- 2) Remove silt/sediment from sediment traps and stormwater pond when accumulated volume has reached 50% of capacity.
- 3) Remove accumulated silt/sediment from behind temporary sediment fence when depth exceeds approximately 0.5 feet. Repair and replace silt fence as necessary.

3.3 Vector Control

Control of insects, rodents, and birds will be accomplished by periodic cleaning of the facility. Spilled or wind-blown debris along the access road will be cleaned up daily and placed in a transfer truck. The facility will be cleaned, as necessary, each day to maintain a sanitary operation. If vector control becomes a problem, additional measures will be taken.

3.4 Dust Control

Dust related to debris hauler traffic on the access roads will be minimized by using a water truck or a sprinkler system to limit dust on the gravel portion of the road, if necessary.



PIN 6833-43-5224.00
 Block Lot 2711 007P
 Owner Larco Construction
 Deed Bk-Pg 2271-1871
 Zoning GI

PIN 6833-53-5199.00
 Block Lot 2711 007V
 Owner Republic Services Of Nc Lic
 Deed Bk-Pg 2246-2646
 Zoning GI

PIN 6833-52-5646.00
 Block Lot 2711 008R
 Owner Total Distribution Services In
 Deed Date 4/14/1992
 Zoning GI

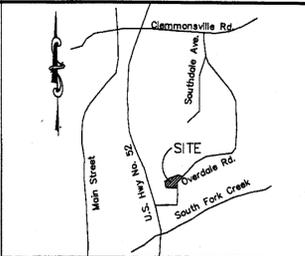
PIN 6833-42-6192
 Block Lot 2707 037C
 Owner CHITTY, WILLIAM D HERS
 Deed Bk-Pg 1647-3138
 Zoning RS9

PIN 6833-42-9375.00
 Block Lot 2707 047
 Owner Snyder, Herbert A
 Deed Bk-Pg 2199-1103
 Zoning RS9

PIN 6833-42-9179.00
 Block Lot 2707 046
 Owner Snyder, Ruth
 Deed Bk-Pg 943-407
 Zoning RS9

PIN 6833-51-4909.00
 Block Lot 2707 042B
 Additional Lots 041
 Owner Chitty, William D & Lena
 Deed Bk-Pg 1165-810
 Zoning GI

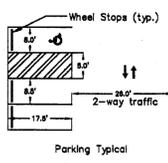
PIN 6833-62-5631.00
 Block Lot 2719 105A
 Owner Corn Products Internat Inc
 Deed Bk-Pg 1981-3233
 Zoning GI



Location Map N.T.S.

The Purpose of this Submittal is for Inspections Site Plan review.

ZONING	
Existing Zoning:	GI
Proposed Zoning:	GI
Type of Review Requested:	Inspections
Jurisdiction:	City of Winston-Salem
SITE SIZE AND COVERAGES	
Total Acreage:	10.227 ± Acres.
Site Coverages:	446,487 sq. ft.
Building to Land:	0.6 %
Pavement to Land:	20.8 %
Open Space:	78.7 %
(Total = 100%)	
Building Sq. Footage (Max.):	3000 Sq. Ft.
Building Height:	32 Ft.
Public Streets:	N/A (approx.)
INFRASTRUCTURE	
Water:	<input checked="" type="checkbox"/> Public <input type="checkbox"/> Private
Sewer:	<input checked="" type="checkbox"/> Public <input type="checkbox"/> Private
Streets:	<input type="checkbox"/> Public <input checked="" type="checkbox"/> Private
OFF-STREET PARKING	
Proposed Uses:	Recycling Plant
Parking Calc.:	1 Spaces/emp + 2 spaces
Required Parking:	89 spaces (6 Office + 82 Prod. Emps.)
Parking Provided:	29 Spaces.
BUFFERYARDS (if applicable)	
Adjoining Zoning:	GI and RS9
Type Required:	Type IV
Width Provided:	15' Min.
Fence Option:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



NOTES:
 1. This map is a compilation of information from deeds, county tax information, structures and topographic information furnished by the Forsyth County GIS.
 2. Owner to obtain driveway permit prior to construction.

NOT AN ACTUAL SURVEY

Preliminary Site Plan
Overdale Recycling Plant

ABBEY GREEN INC.
 4400 Siler Creek Pkwy, Suite 301
 Winston-Salem, NC 27104
 (336) 784-1890
 bryanj@myway.com

Scale: 1" = 80'

FIELD WORK BY	CHECKED BY:
Others	JEB
Block / Lot	Deed Book / Page
2711 007T	DB 2076 PG 3070
2707 041A	DB 2176 PG 817
2711 007U	DB 2376 PG 210
2711 007V	DB 2376 PG 217
2711 007W	DB 2376 PG 217
2711 007X	DB 2376 PG 217
2711 007Y	DB 2376 PG 217
2711 007Z	DB 2376 PG 217

TAX MAP:	CITY:	COUNTY:
630B30	Winston-Salem	Forsyth
STATE:	DATE:	SHEET NUMBER:
North Carolina	08-19-2008	1 of 2
JOB NUMBER:	DRAWN BY:	
08100.051	ATC	

BEESON ENGINEERING INC.
 ENGINEERS SURVEYORS PLANNERS
 503 HIGH STREET
 WINSTON-SALEM, NC 27101
 TELEPHONE: (336) 748-0071
 FAX: (336) 748-0470
 www.beesonengineering.com

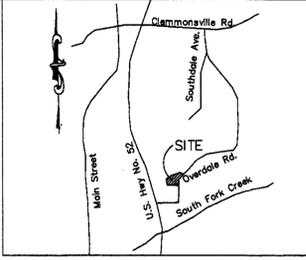
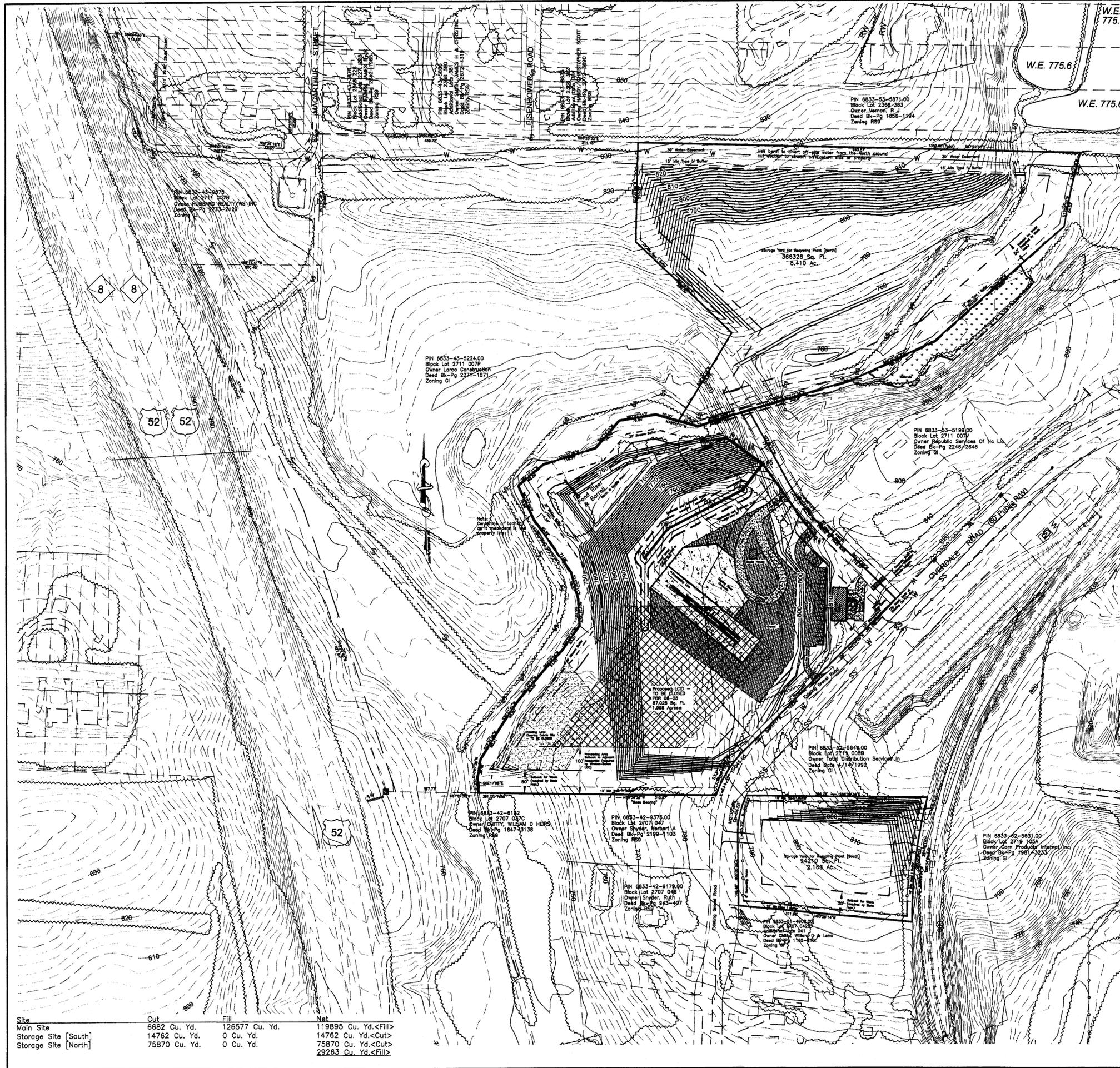
52

Site	Cut	Fill	Net
Main Site	6682 Cu. Yd.	126577 Cu. Yd.	119895 Cu. Yd.<Fill>
Storage Site [South]	14762 Cu. Yd.	0 Cu. Yd.	14762 Cu. Yd.<Cut>
Storage Site [North]	75870 Cu. Yd.	0 Cu. Yd.	75870 Cu. Yd.<Cut>
			29263 Cu. Yd.<Fill>

REVISIONS:
 10-31-08 Per Notes
 4-28-09 Added State req. setback

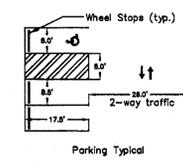


Server Storage:\NewData\AutoCAD\Land Projects\21\2008\Wisc\08100051\DWG\081000.051_Sp.dwg, 4/29/2009 2:39:51 PM



Location Map N.T.S.

The Purpose of this Submittal is for Inspections Site Plan review.



ZONING	
Existing Zoning:	GI
Proposed Zoning:	GI
Type of Review Requested:	Inspections
Jurisdiction:	City of Winston-Salem

SITE SIZE AND COVERAGES	
Total Acreage:	10.827 ± Acres.
Site Coverages:	445,487 sq. ft.
Building to Land:	0.5 %
Pavement to Land:	20.8 %
Open Space:	78.7 %
(Total = 100%)	
Building Sq. Footage (Max.):	3000 Sq. Ft.
Building Height:	32 Ft.
Public Streets:	N/A (approx.)

INFRASTRUCTURE	
Water:	<input checked="" type="checkbox"/> Public <input type="checkbox"/> Private
Sewer:	<input checked="" type="checkbox"/> Public <input type="checkbox"/> Private
Streets:	<input type="checkbox"/> Public <input checked="" type="checkbox"/> Private

OFF-STREET PARKING	
Proposed Uses:	Recycling Plant
Parking Calc.:	1 Spaces/emp + 2 spaces
Required Parking:	29 Spaces.
Parking Provided:	29 Spaces.

BUFFERYARDS (if applicable)	
Adjoining Zoning:	GI and R50
Type Required:	Type IV
Width Provided:	15' Min.
Fence Option:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

NOTES:
1. This map is a compilation of information from deeds, county tax information, structures and topographic information furnished by the Forsyth County GIS.

NOT AN ACTUAL SURVEY

Preliminary Site Plan
Overdale Recycling Plant

ABBEY GREEN INC.
4400 Sulas Creek Pkwy, Suite 301
Winston-Salem, NC 27104
(336) 784-1890
bryanlj@myway.com

Scale: 1" = 100'
100 50 0 50 100 200

FIELD WORK BY		CHECKED BY:	
Others		JEB	
Block / Lot	PIN	Deed Book / Page	
2711 007E	6833-52-1836.00	DB 2175 PG 3070	
2711 011A	6833-52-1838.00	DB 2347 PG 2720	
2711 007U	6833-53-3382.00	DB 2076 PG 2170	
TAX MAP:	CITY:	COUNTY:	
630830	Winston-Salem	Forsyth	
STATE:	DATE:	SHEET NUMBER:	
North Carolina	08-19-2008	2 of 2	
JOB NUMBER:	DRAWN BY:		
08100.051	ATC		

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REVISIONS:
10-31-08 Per Notes
4-28-09 Added State req. setback

Site	Cut	Fill	Net
Main Site	6682 Cu. Yd.	126577 Cu. Yd.	119895 Cu. Yd.<Fill>
Storage Site [South]	14762 Cu. Yd.	0 Cu. Yd.	14762 Cu. Yd.<Cut>
Storage Site [North]	75870 Cu. Yd.	0 Cu. Yd.	75870 Cu. Yd.<Cut>
			29263 Cu. Yd.<Fill>

APPENDIX H



P.O. Box 18846 • Zip 27419-8846 • 313 Gallimore Dairy Road • Greensboro, NC 27409 • p 336.668.0093 • f 336.668.3868

March 19, 2009

Mr. Antony R. Farmer
Winston-Salem Fire Chief
Post Office Box 2511
Winston-Salem, North Carolina 27102-2511

Reference: **Abbey Green Treatment and Processing Facility
Overdale Road
Winston-Salem, North Carolina
Trigon | Kleinfelder Project No. 102111**

Dear Mr. Farmer:

On behalf of Abbey Green, Inc., we are preparing an application for a treatment and processing facility permit for the referenced site in Winston-Salem, North Carolina. The site is located east of US Route 52, approximately one mile south of the intersection of Clemmons Road and Overdale Road (see attached Figure). The proposed facility is likely to maintain stockpiles of one or more of the following wastes: wood, drywall, plastic, and cardboard.

This letter serves as a request to confirm your jurisdiction over this facility and that, in the case of an incident at the site, the fire department will respond with the appropriate equipment.

Very truly yours,

TRIGON | KLEINFELDER, INC.


Gail G. Licayan, P.E.
Project Professional


Christopher W. Hay, E.I.
Environmental Group Manager

GGL/CWH

Attachment: Site Location Map

j:\share\0420\projects\2009\102111 abbey green c&d treatment and processing facility application\fire chief ltr 3-17-09.doc



**CITY OF WINSTON-SALEM
FIRE ADMINISTRATION**

P. O. Box 2511 • WINSTON-SALEM, NORTH CAROLINA 27102-2511
336-773-7900 • FAX 336-773-7974 • www.cityofwsfire.org

Antony R. Farmer, Fire Chief

May 14, 2009

Ms. Gail G. Licayan, P.E.
Project Professional
313 Gallimore Dairy Road
Greensboro, NC 27409

Subject: Response to Abbey Green Recycling Center

Dear Ms. Licayan:

The Winston-Salem Fire Department is responsible for the business that will be located on Overdale Road. Winston-Salem Fire Department Station 5 will be the responding engine company.

Sincerely

Antony R. Farmer
Fire Chief