PERMIT to CONSTRUCT APPLICATION

WI Burnt Poplar Transfer, LLC
Greensboro, North Carolina
NC Solid Waste Permit No. 41-22T

APPROVED
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION
Date 04/21/2014 By Patricia N. Backus
DIN 20789
Attachment 1 Part VI Document 5
Permit 4122T-TRANSFER-2012 Permit DIN 20774

Prepared for:

WI Burnt Poplar Transfer, LLC
(a Waste Industries Company)
Greensboro, North Carolina

December 2013
Revised March 2014

Prepared by:

NC LIC. NO. C-0828 (ENGINEERING)

SMITH+GARDNER

14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

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PERMIT to CONSTRUCT APPLICATION
NC Solid Waste Permit No. 41-22T

WI Burnt Poplar Transfer, LLC
Greensboro, North Carolina

Prepared For:

Waste Industries USA, Inc.
Raleigh, North Carolina

S+G Project No. BURNT 12-1

03-28-14

Jeryl W. Covington, P.E.
Senior Project Engineer

NORTH CAROLINA PROFESSIONAL SEAL 023002 ENGINEER STACEY A. SMITH 3.4.14

Stacey A. Smith, P.E.
Project Manager

December 2013 (Revised March 2014)

NC LIC. NO. C-0829 (ENGINEERING)

SMITH + GARDNER

14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

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Applicant Certification

Name of Facility: **WI Burnt Poplar Transfer, LLC**
Application: **Permit to Construct Application**

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

I understand that North Carolina General Statute 130A-22 provides for administrative penalties of up to fifteen thousand dollars ($15,000.00) per day per each violation of the Solid Waste Management Rules. I further understand that the Solid Waste Management Rules may be revised or amended in the future and that the facility siting and operations of this solid waste management facility will be required to comply with all such revisions or amendments.

Owner: **WI Burnt Poplar Transfer, LLC.**
(Waste Industries USA, Inc.)

Signature	Print Name	Date
R L Marcum	Roger Marcum	12/16/13

General Manager
Title

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WI BURNT POPLAT TRANSFER, LLC

PERMIT to CONSTRUCT APPLICATION

TABLE OF CONTENTS

A guide to specific North Carolina Solid Waste Management (15A NCAC 13A-290, et seq, 15A NCAC 13B .0401 - .0402) rules, and the North Carolina General Assembly Session Law (SB 1492/SL 2007-500) addressed in each section of this document is shown in italics after each section.

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Executive Summary

General

The following Permit to Construct Application has been prepared on behalf of WI Burnt Poplar Transfer, LLC, a wholly owned subsidiary of Waste Industries USA, Inc., for the construction and operations of a mixed waste transfer station and recycling facility covered under North Carolina Permit No. 41-22T located in Greensboro, North Carolina. The current operating permit expires on February 20, 2015 and allows the facility to receive and process construction and demolition (C&D) debris, inert debris, land-clearing debris, asphalt, and other source separated materials for recycling purposes. A copy is provided in **Attachment A**.

The enclosed permit to construct application proposes to modify the facility and the accepted waste types. It is the intent of WI Burnt Poplar Transfer, LLC to structurally enclose the processing pad and travel lane, and to include the transferring of municipal solid waste (MSW) at the facility. The WI Burnt Poplar Transfer, LLC facility will manage a maximum combined volume of waste and recycled materials at a rate of 400 tons per day or a maximum of approximately 146,000 tons per year based on 365 days per year.

Contact Information

All correspondence and questions concerning the operation of the WI Burnt Poplar Transfer, LLC facility should be directed to the appropriate site management listed below:

WI Burnt Poplar Transfer, LLC
6313 Burnt Poplar Road
Greensboro, North Carolina 27418
Phone: (336) 852-4375

Contact: Roger Marcum, General Manager
Phone: (336) 668-3712
Email: roger.marcum@wasteindustries.com

Regulatory Reference

This submission has been prepared in general accordance with the requirements of the North Carolina Solid Waste Management Rules governing waste management and transfer station facility operations, and applicable sections of the North Carolina General Assembly's Session Law 2007-500 (Solid Waste Management Act of 2007). Included in this submittal is a summary of the following documents [*with applicable rule(s) in italics*] either required by the rules for renewal or provided for general reference.

Legal Description of the Property (*15A NCAC 13B. .0401*)
Site Plans Description (*15A NCAC 13B .0401*);

Operation Plan (*15A NCAC 13B .0301 and .0402*);
Local Government Approvals (*15A NCAC 13B .0401*); and
Financial Assurance (General Statutes Article 9, Chapter 130A-295.2).
Traffic Study (General Statutes Article 9, Chapter 130A-295.5).

Property Description

The WI Burnt Poplar Transfer, LLC operates on Lot 2 of the property described in the "Final Plat for Hilltop Properties, LLC" as recorded in Plat Book 168, Page 33 in the Office of the Register of Deeds of Guilford County, North Carolina. Legal description for this property is included in **Attachment B**.

Guilford County, NC Register of Deeds					
Deed Book	Page No.	Grantor	Grantee	PIN	Parcel Acreage
R7335	340	Burnt Poplar Transfer, LLC	WI Burnt Poplar Transfer, LLC	7824-66-4084	6.82

Site Plan

The Site Plan for the MSW and C&D transfer station operations were originally prepared and included in the Permit to Construct (PTC) application which was approved on July 24, 2000. A Site Plan update has been provided as part of this permit renewal application. The Site Plan identifies the locations of receiving and processing activities. A copy of revised plan is provided in **Attachment C**.

Local Government Approvals

As originally permitted, applicable zoning is administered by the City of Greensboro. The property is zoned as Heavy Industrial (HI). A copy of the original local zoning approval and special use permit is included in **Attachment D**.

The site improvements were submitted to the City of Greensboro's Technical Review Committee (TRC) for review and approval. A copy of the TRC approval is included in **Attachment D**.

Operations Manual

The Operations Manual outlines the protocols for the facility's operations and maintenance and was prepared to provide on-site personnel with a clear understanding of how the Design Engineer assumed that the facility should be operated. Along with the site plan drawings, the Operations Manual was prepared in general accordance with the requirements as outlined in 15A NCAC 13B .0402. A copy of the Operations Manual is provided in **Attachment E**.

Financial Assurance

In accordance with the North Carolina General Statutes 130A-295.2, financial assurance will be provided for the facility and will be provided to the Department by Waste Industries USA, Inc. An Engineer's Estimate has been prepared to address the financial assurance requirements for remedial activities promulgated by the General Assembly's Session Law 550. The financial assurance estimate directly correlates to the constructed operating areas. A copy of the estimate is provided in Attachment F.

Traffic Analysis

In accordance with the North Carolina General Statutes 130A-295.5, a traffic analysis was completed by VBH Engineering NC, P.C. to evaluate the transportation volumes associated with the proposed site modifications. The traffic analysis has been submitted to the Department of Transportation (DOT) to obtain certification that the proposed modifications will not have a substantial impact on highway traffic. A copy of the traffic analysis and DOT certification are provided in Attachment G.

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Attachment A

Permit Documentation

Permit to Construct Application
WI Burnt Poplar Transfer, LLC
NC Solid Waste Permit No. 41-22T

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North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION

SOLID WASTE TRANSFER FACILITY
Permit 4122T-TRANSFER-2012

WI BURNT POPLAR TRANSFER, LLC
(a wholly owned subsidiary of Waste Industries USA, Inc.)
(LANDOWNER AND OPERATOR)

is hereby issued a

PERMIT TO OPERATE

BURNT POPLAR C&D TRANSFER STATION
(A SOLID WASTE TRANSFER FACILITY)

Located at 6313 Burnt Poplar Road, in Greensboro, Guilford County, North Carolina, in accordance with Article 9, Chapter 130A, of the General Statutes of North Carolina and all rules promulgated thereunder and subject to the conditions set forth in this permit. The legal description of the site is identified on the deed recorded for this property listed in Attachment 1, Part III of this permit.

Edward F. Mussler, III, P.E.
Permitting Branch Supervisor
Solid Waste Section

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone: 919-707-8200 Internet: http://portal.ncdenr.org/web/wm/sw

ATTACHMENT 1

PART I: Permitting History

Permit Type	Date Issued	Document ID
Permit to Construct and Operate	February 20, 2009	6854
Permit to Operate – Amendment	August 23, 2012	16728

1. The original permit to construct and operate was issued to Burnt Poplar Transfer, LLC and WCA Waste Systems, Inc., both wholly-owned subsidiaries of WCA Waste Corporation on February 20, 2009, as Permit 4122T-Transfer-2009.

2. The original permit to construct and operate was recorded on March 3, 2009. Guilford County, NC. Deed Book R 6983, page 2154-2164.

3. The facility was purchased by WI Burnt Poplar Transfer, LLC, a wholly-owned subsidiary of Waste Industries USA, Inc. WI Burnt Poplar Transfer, LLC agreed to operate the facility in accordance with the existing permit and to be liable for improper operations and proper closure of the solid waste management facility. An amendment to the Permit to Operate, transferred the permit to WI Burnt Poplar, LLC was issued August 23, 2012, as Permit 4122T-TRANSFER-2012.

PART II: List of Documents for the Approved Plan

1. *C&D Transfer Station Permit Application for Burnt Poplar Transfer, LLC.* Prepared by David Garrett, P.G., P.E.; Raleigh, NC. December 14, 2007. Revised September 2, 2008 and February 10, 2009. DIN 5709.

2. Notification of change in ownership and request to transfer permit. Submitted by Grady L. Shields, Wyrick Robbins Yates & Ponton LLP, Raleigh, NC, representing Waste Industries USA, Inc. February 28, 2012. DIN 16620.

3. North Carolina Special Warranty Deed from Burnt Poplar Transfer, LLC, a Delaware limited liability company to WI Burnt Poplar Transfer LLC, a North Carolina limited liability company. March 23, 2012. Filed March 28, 2012. Guilford County, NC. Deed Book R 7335, page 340-343. Retrieved May 2, 2012, from http://rdlxweb.co.guilford.nc.us/guilfordNameSearch.php . DIN 16726

4. Letter from John M. Gardner, PE. Included the Engineer's Certification of Completeness, drawings addressing as-built conditions, and a copy of the City of Greensboro approved Erosion and Sediment Control plan. August 20, 2012. DIN 16727.

PART III: Properties Approved for the Solid Waste Facility

Guilford County, NC Register of Deeds				
Book	Page	Grantor	Grantee	Acres
R 7335	340	Burnt Poplar Transfer, LLC	WI Burnt Poplar Transfer, LLC	6.8

The property is identified as Lot 2 on Plat Book 168, page 33.

PART IV: General Permit Conditions

1. In accordance with North Carolina Solid Waste Management Rule 15A NCAC 13B .0201(d), a solid waste management facility permit shall have two parts: a Permit to Construct and a Permit to Operate. The Permit to Construct expired August 20, 2010. The Permit to Operate shall expire on August 20, 2015. Pursuant to 15A NCAC 13B .0201(g), not later than October 20, 2014, the owner or operator must submit a request to the Section for permit review and must update pertinent facility plans including, but not limited to, the facility operation and waste screening plans.

2. The persons to whom this permit is issued ("permittee") are the owners and operators of the solid waste management facility.

3. This permit shall not be effective until the certified copy of this permit which references legal descriptions for all land within the solid waste management facility boundary is recorded in the Register of Deeds office and indexed in the grantor index under the name of the owner of the land in the county or counties in which the land is located. The certified copy of the permit affixed with the Register's seal and the date, book, and page number of recording must be returned to the Section within 30 calendar days of issuance of this permit. If the Section does not receive the certified copy of the recorded permit within 30 calendar days of issuance of the permit, then and in that event, the permit is suspended and of no effect until the date the Section received the certified copy of the recorded permit.

4. When this property is sold, leased, conveyed, or transferred in any manner, the deed or other instrument of transfer must contain in the deed description section, in no smaller type than that used in the body of the deed or instrument, a statement that the property has been used as a solid waste transfer station and a reference by book and page to the recordation of the permit.

5. By receiving waste at this facility the permittee shall be considered to have accepted the terms and conditions of this permit.

6. Operation of this solid waste management facility shall be in accordance with the North Carolina Solid Waste Management Rules, 15A NCAC 13B; Article 9 of the Chapter 130A of the North Carolina General Statutes (NCGS 130A-290, et seq.); the conditions contained in this permit; and the approved plan. Should the approved plan and the rules conflict, the Solid Waste Management Rules shall take precedence unless specifically addressed by permit condition. Failure to comply may result in compliance action or permit revocation.

7. This permit is issued based on the documents submitted in support of the application for permitting the facility including those identified in Attachment 1, Part II, "List of Documents for Approved Plan," and which constitute the approved plan for the facility. Where discrepancies exist, the most recent submittals and the Conditions of Permit shall govern.

8. This permit may be transferred only with the approval of the Section, through the issuance of a new or substantially amended permit in accordance with applicable statutes and rules. In accordance with NCGS 130A-295.2(g) the permittee shall notify the Section thirty (30) days prior to any significant change in the identity or business structure of either the owner or the operator, including but not limited to a proposed transfer of ownership of the facility or a change in the parent company of the owner or operator of the facility.

9. The permittee is responsible for obtaining all permits and approvals necessary for the development of this project including approval from appropriate agencies for a General or Individual National Pollutant Discharge Elimination System Stormwater Discharge Permit. Issuance of this permit does not remove the permittee's responsibilities for compliance with any other local, state or federal rule, regulation, or statute.

- End of Section -

ATTACHMENT 2

Conditions of Permit to Construct

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-End of Section-

ATTACHMENT 3

Conditions of Permit to Operate

PART I: Operation Conditions

1. The Permit to Operate shall expire February 20, 2015. Pursuant to 15A NCAC 13B .0201(g), not later than October 20, 2014, the owner or operator must submit a request to the Section for permit review and must update pertinent facility plans including, but not limited to, the facility operation and waste screening plans.

2. The facility is permitted to receive the following waste types:

   a. "Construction or demolition debris" as defined in NCGS 130A-290 (a)(4) means solid waste resulting solely from construction, remodeling, repair or demolition operations on pavement, buildings, or other structures, but does not include inert debris, land-clearing debris or yard debris.

   b. "Inert debris" as defined in NCGS 130A-290 (a)(14) means solid waste that consists solely of material such as concrete, brick, concrete block, uncontaminated soil, rock, and gravel.

   c. "Land-clearing debris" as defined in NCGS 130A-290 (a)(15) means solid waste that is generated solely from land-clearing activities, such as stumps and tree trunks.

   d. "Asphalt" in accordance with NCGS 130A-294 (m),

   e. Source-separated cardboard, clean wood debris (including pallets), and metals from non-construction or demolition debris sources may be accepted for recycling in accordance with condition 12 of Attachment 13, Part I.

3. Those wastes listed in 15A NCAC 13B .0542(e), must not be accepted at the facility including, but not limited to, municipal solid waste (MSW), liquid waste, commercial and industrial waste, and yard trash. Regulated asbestos containing material as defined in 40 CFR 61 must not be accepted at the transfer facility. Barrels and drums shall not be accepted unless they are empty and perforated sufficiently to ensure that no liquid or hazardous waste is contained therein.

4. This facility is permitted to receive construction and demolition debris waste generated within Guilford, Forsyth, Randolph, and Davidson counties. Waste must be transported for disposal to the High Point C&D Debris Landfill and C&D Waste Reclamation Pad, Permit Number 41-16, or to the Cobles C&D Landfill at 5833 Foster's Store Road in Liberty, Permit Number 01-05. Waste must only be transported to facilities whose service area includes the generation source. Proposed changes to the service area and/or disposal facilities must be approved by the Section and are modification to the permit and may be subject to a permitting fee.

5. The permittee must not knowingly dispose of, or accept for transfer for subsequent disposal, C& D solid waste that is generated within the boundaries of a unit of local government that by ordinance:

   a. Prohibits generators or collectors of C&D solid waste from disposing of that type or form of C&D waste.

   b. Requires generators or collectors of C&D solid waste to recycle that type or form of C&D waste.

6. A responsible individual trained and certified n facility operations must be on-site during all times during operating hours of the facility, in accordance with NCGS 130A-309.25. An attendant must be present to oversee the loading and unloading of waste.

7. The permittee must develop, and use, a training and screening program at the facility for detecting and preventing unauthorized wastes from being accepted at the facility. At a minimum, the program must include:

   a. Random inspections of incoming loads or other comparable procedures.

   b. Records of all inspections.

   c. Training of personnel to recognize hazardous, liquid, and other excluded waste types.

   d. Development of a contingency plan to properly manage any identified hazardous, liquid, MSW, or other excluded or unauthorized wastes. The plan must address the identification, removal, storage, and final disposition of these wastes.

8. The facility must be adequately secured by means of gates, chains, berms, fences, or other security measures approved by the Section to prevent unauthorized entry.

9. Interior roadways must be of all-weather construction and maintained in good condition.

10. Signs must be posted at the entrance to the facility that state that no MSW, hazardous waste or liquid waste can be received at the facility; and provide information on dumping procedures, the hours of operation, the permit number, and other pertinent information. Traffic signs or markers must be provided as necessary to promote an orderly traffic pattern to and from the discharge area and to maintain efficient operating conditions.

11. Only cardboard, clean wood debris (including pallets), and metals are approved for recycling. Engineered or glued wood (such as particle board) and painted debris are not approved for recycling.

12. Source separated recyclables from non-C&D waste sources, consisting of only cardboard, clean wood debris (including pallets), and metals, may be accepted at the facility. These recyclables must be unloaded directly into storage containers, and not placed on the tipping floor.

13. Demolition debris waste must not be sorted for recycling, unless an asbestos screening plan has been submitted to the Division of Epidemiology of the Department of Health and Human Services for approval and the approved plan forwarded to the Section for inclusion in the operation plan for the facility.

14. Except for inert debris, all recyclables must be sorted and stored in containers by the end of each operating day. Containers must be covered at the end of each operating day, and during precipitation events. All non-recyclables in the sorting area must be placed in transfer trailers for disposal by the end of each operating day.

15. Waste must be stored onsite, in leak-proof transfer trailers, with watertight covers, a maximum of 24 hours except that a minimal amount of waste may be stored for a maximum of 48 hours when the facility is closed during a weekend and a maximum of 72 hours when closed for a weekend holiday. Storage of the waste must not cause any nuisance, such as odor or attraction of vectors.

16. Recycled materials placed in containers must be removed for the site once the container is full. Recyclable material must not be stored onsite longer than one year. The approved maximum storage volume of recycled materials onsite at any time is approximately 300 cubic yards, or the volume of three (3) 45-foot trailer loads.

17. All water that comes in contact with solid waste, including vehicle wash-down water, is leachate and must be captured and properly treated before release to the environment.
    a. The leachate control system; such as floor drains, leachate collection devices, sanitary sewer connections and leachate storage tanks; must be operational during facility operations.
    b. The tipping floor must drain away from the building entrance and into the leachate collection system.

18. All sedimentation and erosion control activities must be conducted in accordance with the Sedimentation Control Act NCGS 113A-50, et seq., and rule promulgated under 15A NCAC 4.

19. Control measures must be utilized to minimize and eliminate visible dust emissions and blowing letter. Fugitive dust emissions are prohibited. Windblown materials must be

collected at the end of each operating day, and no windblown material may be allowed to leave the facility boundary.

20. Copies of this permit, the approved plans, and all records required to be maintained by the permittee must be maintained at the facility, unless otherwise approved by the Section, and made available to the Section upon request during normal business hours.

21. The permittee must maintain a record of the amount of solid waste received at the facility including daily records of waste received and origins of the loads. Scales must be used to weigh the amount of waste received. The permittee must maintain a record of the amounts of waste transported out of the facility for disposal, amounts of materials transported out of the facility for recovery and recycling, and amounts of waste or material with any other final disposition, to be compiled on a monthly basis. The daily records are to be summarized into a monthly report for use in the required annual reports. Documentation of end-users/processors/recyclers must be maintained for recycled and recovered materials.

22. On or before August 1 annually, the Permittee must submit an annual facility report to the Solid Waste Section, on forms prescribed by the Section.
    a. The reporting period shall be for the previous year beginning July 1 and ending June 30.
    b. The annual facility report must list the amount of waste received in tons and be compiled:
        i. On a monthly basis.
        ii. By county, city or transfer station of origin.
        iii. By specific waste type.
        iv. By receiving disposal facility.
        v. By diversion to alternative management facilities.
    c. The tons of C&D waste recycled, recovered, or diverted from disposal including a description of how and where the material was ultimately managed must be included in the report.
    d. The completed report must be forwarded to the Regional Environmental Specialist for the facility by the date due on the prescribed annual facility report form.
    e. A copy of the completed report must be forwarded to each county manager for each county from which waste was received at the facility. Documentation that a copy of the report has been forwarded to the county managers must be sent to the Regional Environmental Specialist by the date due on the prescribed annual facility report form.

23. Processing of materials, shredding, or grinding must not take place at the facility unless approval has been granted under the special use permit and a revised operations plan has been submitted to the Solid Waste Section.

24. Financial assurance as required by state rules and statutes must be established and be continuously maintained for the duration of the facility in accordance with the applicable rules and statutes.

- End of Permit Conditions -

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Attachment B

Legal Description of Property

Permit to Construction Application
WI Burnt Poplar Transfer, LLC
NC Solid Waste Permit No. 41-22T

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2012018510
GUILFORD CO, NC FEE $26.00
STATE OF NC REAL ESTATE EXTX
$1155.00
PRESENTED & RECORDED:
03-28-2012 03:10:12 PM
JEFF L. THIGPEN
REGISTER OF DEEDS
BY: MEREDITH A APPLE
DEPUTY-GB
BK: R 7335
PG: 340-343

NORTH CAROLINA SPECIAL WARRANTY DEED

Excise Tax: $1,155.00

Parcel Identifier: 7824-66-4084

Mail after recording to:
Wyrick Robbins Yates & Ponton LLP (CFL) 4101 Lake Boone Trail, Ste. 300, Raleigh, NC 27607

AM This instrument was prepared by:
Wyrick Robbins Yates & Ponton LLP (CFL) 4101 Lake Boone Trail, Ste. 300, Raleigh, NC 27607

Brief Description for the Index: Lot 2, Plat Book 168, Page 33

THIS DEED made this 23rd day of March, 2012, by and between:

GRANTOR	GRANTEE
Burnt Poplar Transfer, LLC, a Delaware limited liability company One Riverway, Suite 1400 Houston, TX 77056	WI Burnt Poplar Transfer, LLC, a North Carolina limited liability company 3301 Benson Drive, Suite 601 Raleigh, NC 27609

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

See Exhibit A which is attached hereto and incorporated herein by reference.

The property hereinabove described was acquired by Grantor by instrument recorded in Book 6966, Page 1734, Guilford County Registry.

All or a portion of the property herein conveyed does not include the primary residence of the Grantor.

A map showing the above-described property is recorded in Plat Book 168, Page 33, Guilford County Registry.

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

And Grantor covenants with Grantee that Grantor has done nothing to impair such title as Grantor received, and Grantor will warrant and defend the title against the lawful claims of all persons claiming by, under or through Grantor, except for the exceptions hereinafter stated.

Title to the property hereinabove described is subject to the following exceptions:

1. Ad valorem taxes for the year 2012 and subsequent years, not yet due and payable.
2. All restrictions, easements and rights-of-way of record.

[NEXT PAGE IS SIGNATURE PAGE.]

IN WITNESS WHEREOF, Grantor has executed the foregoing as of the day and year first above written.

BURNT POPLAR TRANSFER, LLC
a Delaware limited liability company

By: _____
Name: Michael A. Roy
Title: Vice President

THE STATE OF TEXAS §
§
COUNTY OF HARRIS §

This instrument was acknowledged before me on the 23rd day of March, 2012, by Michael A. Roy, who upon his oath stated that he is the Vice President of Burnt Poplar Transfer, LLC.

CHRISTY CAVANAUGH WILLIAMS
Notary Public, State of Texas
My Commission Expires
October 27, 2015

Christy Ca Williams
Notary Public, State of Texas

Christy Cavanaugh Williams
Printed Name of Notary

Commission Expires: October 27, 2015

EXHIBIT A

Legal Description

ALL of Lot 2, of that property described in "Final Plat for Hilltop Properties, LLC' as per plat recorded in Plat Book 168, Page 33, in the Office of the Register of Deeds of Guilford County, North Carolina.

TOGETHER with all rights and interest in and to those easements for access and utilities as set forth in that certain Deed of Easement recorded in Book 6674, Page 1746, in the Office of the Register of Deeds of Guilford County, North Carolina, the terms, provisions and description of said easement are as set forth in said Deed of Easement recorded in said Book 6674, Page 1746, Office of the Register of deeds of Guilford County, North Carolina, being incorporated herein by reference as if fully repeated.

Attachment C

Site Plan

Permit to Construct Application
WI Burnt Poplar Transfer, LLC
NC Solid Waste Permit No. 41-22T

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*****TO BE FILLED OUT BY DESIGNER*****

***** LANDSCAPE APPROVAL AND INSPECTION *****

- ☐ A LANDSCAPE PLAN (which depicts the plant types and locations) Must Be Submitted To The Planning Department For Review And Approval On or Before _____ (90 Days).
- ☐ THE Required LANDSCAPE PLANT MATERIAL Must Be Installed And Inspected Prior To Receiving A Certificate of Occupancy.

To request an inspection contact Landscape/Watershed Planner at 336-373-2918

***** TREE PRESERVATION APPROVAL AND INSPECTION *****

- ☐ The Required TREE PROTECTION FENCING Must Be Installed and Inspected Prior to Land Disturbance.

To request a pre-construction meeting contact the Urban Forester at 336-373-2150

- ☐ THE Required REFORESTATION AREA Must Be Installed And Inspected Prior To Receiving A Certificate of Occupancy.

***** ZONING APPROVAL AND INSPECTION *****

- ☐ The Required Parking Spaces And Drive Aisles Must Be PAVED And STRIPED Prior To Receiving a Certificate of Occupancy.
- ☐ Tank Permit required* (Contact Zoning Office Office at 336-373-2630)
- ☐ Sign Permit required* (Contact Zoning Office at 336-373-2630).

***** WATERSHED APPROVAL AND INSPECTION *****

- ☐ A FINAL PLAT Must Be Recorded In The Guilford County Register Of Deeds Prior To Receiving A Certificate of Occupancy.
- ☐ Construction of the WATER QUALITY DEVICE (POND) Must Be Complete and the "Engineer's Certification of Completion" Sent To The Planning Department Prior To Receiving A Certificate of Occupancy.

***** FLOODPLAIN APPROVAL *****

- ☐ Elevation Certification Required
- ☐ Floodplain Development Permit Required

***** SOIL EROSION CONTROL *****
(Contact Erosion Control Officer at 336-373-2158)

- ☐ Watershed Pond Construction/Surety Or Improvement Guarantee Must Be Submitted.

***** ENGINEERING CONSTRUCTION APPROVAL *****
(Contact Engineering Division at 336-373-2302)

- ☐ Utility Construction Plan Approval Required*
- ☐ Pavement Cut Permit May Be Required*
- ☐ Roadway Construction Plans Required*
- ☐ Storm Sewer System.
  - ☐ Permit Required To Tie Into Storm Sewer System
  - ☐ Driveway Culvert Inspection Required.

***** WATER RESOURCES CONSTRUCTION APPROVAL *****
(Contact Resources at 336-373-2055)

Water System*
- ☐ State Water Permit Required.
- ☐ Outside City-Utility Agreement And Annexation Petition Required.

Sanitary Sewer System*
- ☐ State Sanitary Sewer System Permit Required.
- ☐ Outside City-Utility Agreement And Annexation Petition Required.

*Fee required before construction plans are released.

***** PROJECT SUMMARY *****

Minimum Number Of Required Parking Spaces: 4 (1 per 2,000 sq. ft.)

Total Number Of Provided Parking Spaces: 11 total (1 disable parking space included)

Plat book and/or Deed book Reference: Plat Book 168, Page 33, Lot 2

Street Classification(s): _____

Developer's Name: Waste Industries USA, Inc.

Address: 3301 Benson Drive, Suite 601

Daytime Phone Number: (919) 325-3000

Existing Land Use: Industrial **SIC #:** 4212

Stormwater Management/Watershed

Stormwater Control/Improvements(s) (0.5 ac. sedimentation pond) wet detention pond

Maximum Amount of BUA Allowed Per Stormwater Control Design: 70% allowed (existing 2.633 ac. BUA, 38.6%).

Distance to Nearest Floodway: Greater than 2,000 LF

On-site soil types(s): Enon - fine sandy loam

Hydrology groups(s): C

Amount of site to be disturbed: None

***** FINANCIAL RESPONSIBILITY ACKNOWLEDGEMENT *****

Waste Industries USA, Inc. is to provide a one year warranty to guarantee the public improvement from failure due to faulty workmanship or materials. Once the project is complete, this individual or corporation will be required to sign a notarized agreement, upon completion and return of this agreement, they will receive a final acceptance letter and the year warranty will begin. The City of Greensboro will not release bonds or accept public infrastructure for maintenance without a final inspection.

David W. Pepper 7/1/13

Financial Responsibility Individual or Corporation — Signature

ADDRESS: Waste Industries USA, Inc.
3301 Benson Drive, Suite 601
Raleigh, NC 27609

TELEPHONE: (919) 325-3000

CITY OF GREENSBORO
WATER RESOURCES DEPARTMENT
COLLECTION SYSTEM EXTENSION PERMIT APPROVAL

PROJECT ORIGIN: ☐ CITY ☐ PRIVATE

TYPE OF PROJECT: ☐ CITY OWNED ☐ PRIVATELY OWNED ☐ PORTIONS PUBLIC AND PRIVATELY OWNED

PER ARTICLE 21 OF CHAPTER 143 OF THE NORTH CAROLINA GENERAL STATUTES, AS AMENDED, AND OTHER LAWS, RULES AND REGULATIONS, PERMISSION IS HEREBY GRANTED BY THE CITY OF GREENSBORO, A DELEGATED PERMITTING AUTHORITY APPROVED BY THE NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION, FOR THE CONSTRUCTION AND OPERATION OF THE COLLECTION SYSTEM DEPICTED ON THESE PLANS AND THROUGHOUT THE PERMITTING PROCESS.

CITY OF GREENSBORO AND ITS STAFF ARE NOT RESPONSIBLE FOR ERRORS IN DESIGNS, CALCULATIONS, DRAWINGS OR STATEMENTS, OR FINDING AND CORRECTING ANY ERRORS OR DEFICIENCIES SUBMITTED BY APPLICANTS OR THEIR CONSULTANTS, AND DISCLAIMS ANY LIABILITY FOR ERRORS, IN ACCORDANCE WITH NORTH CAROLINA GENERAL STATUTE 130A-26.2. ANY PERSON WHO KNOWINGLY MAKES ANY FALSE STATEMENT, REPRESENTATION, OR CERTIFICATION IN ANY APPLICATION OR DESIGN DOCUMENTS SHALL BE GUILTY OF A CLASS 2 MISDEMEANOR, WHICH MAY INCLUDED A FINE NOT TO EXCEED $10,000 PER VIOLATION.

PERMITTEE SHALL BE RESPONSIBLE FOR ADHERANCE TO ALL CONDITIONS OF THE CITY OF GREENSBORO WATER RESOURCES DEPARTMENT AS CHECKED.

- ☐ WASTEWATER COLLECTION SYSTEM EXTENSION MASTER PERMIT (PUBLIC)
- ☐ INDIVIDUAL WASTEWATER COLLECTION SYSTEM EXTENSION PERMIT (PRIVATE)

ANY SIGNIFICANT CHANGES (SIZE, TYPE, CONNECTIONS, LENGTH, ALIGNMENT, ETC.) TO THAT APPROVED ON THESE PLANS OR PERMITTING DOCUMENTS SHALL BE REVIEWED AND APPROVED BY THE CITY OF GREENSBORO PRIOR TO CONSTRUCTION.

APPROVED BY: _____ CITY OF GREENSBORO

COG PERMIT NO. WRCS00 _____ APPROVAL DATE: _____

COVER SHEET APPLICATION FORM (Revised July 18, 2007)	
Greensboro City Planning Department	
Mailing Address P.O. Box 3136, Greensboro, NC 27402-3136	
Office Address: 300 West Washington Street, Greensboro, NC 27402	
If you have any questions about the process call Nicole Ward with the Planning Department at 336-412-5757	
PLAN TYPE:	REVIEW FEE:
Site Plans	$400 plus $20 per 1,000 sq. ft. gross floor area
Multifamily Developments	$400 plus $25 per dwelling unit
Single Family Subdivisions	$260 plus $40 per lot
Minor Revisions	$260 plus the per lot, square footage, or dwelling unit listed below applied to any increase.
Submit 14 copies of plans to the Planning Department for review.	
Plan review takes 7-10 working days; the Planning Department staff will contact you when your plan is ready.	
PROJECT SUMMARY:	
Owner/Applicant: Waste Industries Burnt Poplar Transfer, LLC/Smith Gardner, Inc.	
Report Comments to: David Pepper	
Telephone Number: (919) 325-3000 Fax Number: (919) 325-3012	
E-Mail: david.pepper@wasteindustries.com	
Report Comments to: John Gardner, P.E.	
Telephone Number: (919) 828-0577 ext. 126 Fax Number: (919) 828-3899	
E-Mail: john@smithgardnerinc.com	
Tax Map/Block/Parcel #(s) 94-7031-959-38	
Total Tract Acreage: 6.82 ac.	
Zoning District: HI	
Watershed Designation: Upper Randleman Lake Watershed	
Proposed Use: C&D/MSW transfer station	
Number of Lots: 1	
Multifamily Developments: # of Units NA	
Type: Apartments Townhomes Condominiums	
Non-Residential Developers: Existing GFA ~1,000 sq. ft. Proposed GFA 7,000 sq. ft.	
Amount of Existing BUA: 2.2 ac.	
Amount of proposed BUA: unchanged - refer to note below	
PROJECT SUBMISSION GUIDELINES	
Plans submitted to the Planning Department that do not include the items on the Design Review Application Form will not be reviewed, and will be returned to the contact person.	
This portion of the cover sheet must be filled out and signed by the person designating the site to show that he/she has read and provided the required information to submit a plan to the Planning Department.	
I have read, understood and completed the attached plan to the best of my knowledge and ability.	
Name: Phone: Date:	

Note: No new proposed BUA. Building construction to occur on existing concrete pad. No proposed increase in BUA.

Date Map Revised:

Revisions	By

***** TRANSPORTATION APPROVAL *****
(Contact GDOT at 336-373-GDOT)

Driveway Permit:

- ☐ City of Greensboro Driveway Permit Required
- ☐ N.C. Department Of Transportation Driveway Permit Required.

Driveway Permit Issued? _____ YES _____ N/A

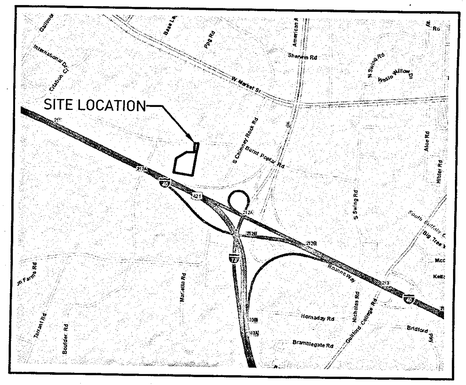
_____ NO, DO NOT ISSUE BUILDING PERMIT

***** SUBDIVISION APPROVAL *****

- ☐ A FINAL PLAT Must Be Recorded In The Guilford County Register Of Deeds Prior To Issuance Of A Building Permit.

Final Plat Recorded? _____ YES _____ N/A

_____ NO, DO NOT ISSUE PERMIT.



VICINITY MAP

The items checked below have not been included on this plan being submitted for Technical Review Committee review and approval. It is understood that additional reviews in the development process (including construction and utility plan review, as indicated below) could effect the amount of development possible on this site and the costs associated with this development:

- ☐ ***Sidewalk, Road Widening and Turn Lanes***
  Required sidewalk along existing streets, required road widening, and/or required turn lanes have not been depicted and their design has not been reviewed. I understand that the review and approval of said improvements will occur during the construction and utility plan process.
- ☐ ***Water and Sanitary Sewer***
  Full design information for the proposed water and sanitary sewer system has not been depicted and their design has not been reviewed. I understand that the review and approval of said improvements will occur during the construction and utility plan review process.
- ☐ ***BMP***
  Full design information for the proposed water quality/quantity device (BMP) has not been depicted and its design has not been reviewed. I understand that the review and approval of said improvements will occur during the construction and utility plan review process.
- ☐ ***STORM SEWER***
  Full design information for the storm sewer system and/or grading has not been depicted and its design has not been reviewed. I understand that the review and approval of said improvements will occur during the construction and utility plan review process.

Individual Responsible for Preparation of the Plan — Signature / Seal

Watershed Plan Approved By The Technical Review Committee (TRC) on _____,

and/or Site Plan, Subdivision, Group Development,

Approved by TRC, on 10/24/13. (2013-1065 TRACKING NUMBER)

NOTE: TRC approval represents the maximum possible development of the site. Additional reviews in the development process (including Construction Plan review) could reduce the amount of development possible on this site.

NOTE: Conformance With This Approved Plan Is Your Resposibility; And Any Change In Land Use, Lot Lines, Building Location, Parking, Drives, Utility Lines, Landscaping, etc. Must Be Resubmitted To The Planning Department To Eliminate Delay In the Review Process.

(CLERK OF THE TRC) — 10/24/13 (DATE)

PREPARED FOR:
WASTE INDUSTRIES USA, I
3301 BENSON DRIVE
SUITE 601
RALEIGH, NC 27609
(919) 325-3000

PREPARED BY:
NC LIC. NO. C-0828 (ENGINEER
SMITH+ GARDNER
ENGINEERS
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.05

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 21278 ENGINEER JOHN M. GARDNER — 10/24/13

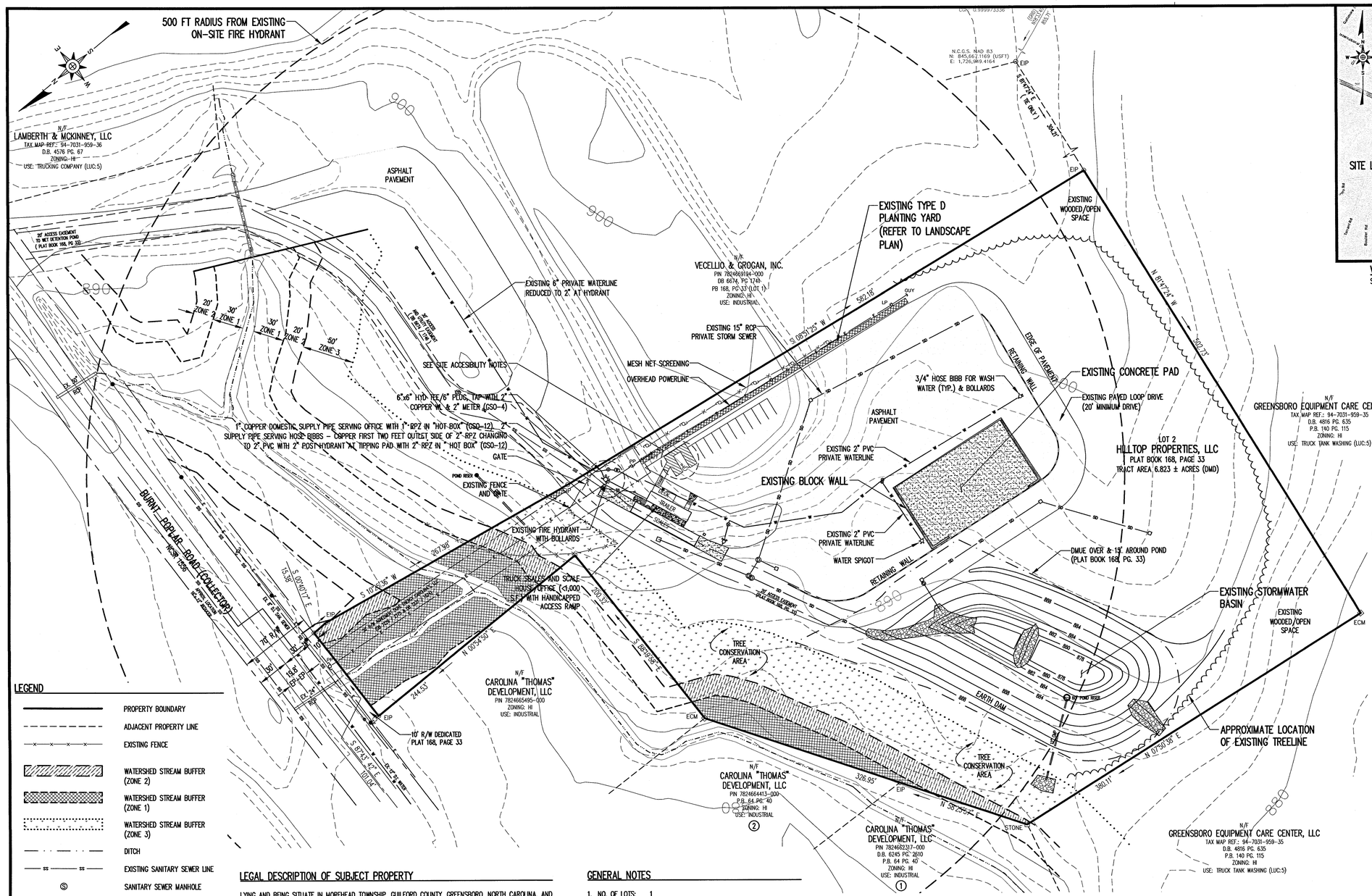
SEAL — NORTH CAROLINA PROFESSIONAL SEAL 23006 ENGINEER VERN W. COVINGTON — 10/23/13

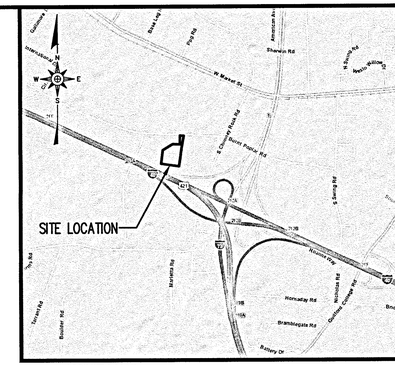
REV.	DATE	DESCRIPTION

PROJECT TITLE:
WI BURNT POPLAR TRANSFER, LLC
C&D / MSW TRANSFER STATION
MOREHEAD TOWNSHIP
GUILFORD COUNTY
6313 BURNT POPLAR ROAD
GREENSBORO, NC

DRAWING TITLE:
TRC APPLICATION COVER SHEET

DESIGNED: J.W.C.	PROJECT NO.: BURNT 12-1
DRAWN: C.T.J.	SCALE: AS SHOWN
APPROVED:	DATE: JUNE 2013
FILENAME: WI-D0838	
SHEET NUMBER: --	DRAWING NUMBER: FIG.1





VICINITY MAP
SCALE: 1" = 2000'

LEGEND

- PROPERTY BOUNDARY
- ADJACENT PROPERTY LINE
- EXISTING FENCE
- WATERSHED STREAM BUFFER (ZONE 2)
- WATERSHED STREAM BUFFER (ZONE 1)
- WATERSHED STREAM BUFFER (ZONE 3)
- DITCH
- EXISTING SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING STORM DRAIN PIPE
- STORM MANHOLE
- GRATE INLET
- EXISTING OVERHEAD ELECTRIC
- POWER POLE
- LIGHT POLE
- LAMP POST
- EXISTING WATER LINE
- WATER VALVE
- WATER METER

REFERENCES

1. EXISTING FEATURES SHOWN FROM DRAWING "ALTA/ASCM LAND TITLE SURVEY FOR WI BURNT POPLAR TRANSFER, LLC MOREHEAD TOWNSHIP, GUILFORD COUNTY", DATED 2/9/12, PREPARED BY CPT ENGINEERING AND SURVEYING INC, HIGH POINT, NORTH CAROLINA.

LEGAL DESCRIPTION OF SUBJECT PROPERTY

LYING AND BEING SITUATE IN MOREHEAD TOWNSHIP, GUILFORD COUNTY, GREENSBORO, NORTH CAROLINA, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEING ALL OF LOT 2, CONTAINING 6.823 ± ACRES AS SHOWN ON THE FINAL PLAT FOR HILLTOP PROPERTIES, LLC AS RECORDED IN PLAT BOOK 168, PAGE 33, GUILFORD COUNTY REGISTRY.

TOGETHER WITH AND SUBJECT TO THE RIGHTS AND BENEFITS IN AND TO THAT CERTAIN THIRTY-FOOT (30') ACCESS AND PRIVATE UTILITY EASEMENT MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT AN EXISTING IRON PIPE IN THE SOUTHERN LINE OF BURNT POPLAR ROAD, (PUBLIC 60' R/W), SAID PIPE BEING THE NORTHEAST CORNER OF HILLTOP PROPERTIES, LLC AS RECORDED IN DEED BOOK 6058, PAGE 991 OF THE GUILFORD COUNTY REGISTRY, SAID PIPE ALSO BEING THE NORTHWEST CORNER OF LAMBERTH AND MCKINNEY, LLC., AS RECORDED IN DEED BOOK 4576, PAGE 67; THENCE ALONG THE SOUTHERN LINE OF BURNT POPLAR ROAD, NORTH 85°44'39" WEST, A DISTANCE OF 43.88 FEET TO A POINT IN THE CENTERLINE OF A 30' ACCESS AND PRIVATE UTILITY EASEMENT: THENCE LEAVING THE SOUTHERN LINE OF BURNT POPLAR ALONG THE CENTERLINE OF SAID 30' EASEMENT, THE FOLLOWING TEN (10) COURSES AND DISTANCES: (1) SOUTH 30°54'30" WEST A DISTANCE OF 211.58 FEET, (2) SOUTH 58°18'57" WEST A DISTANCE OF 60.74 FEET, 3) SOUTH 67°28'05" WEST A DISTANCE OF 37.88 FEET, (4) SOUTH 77°37'09" WEST A DISTANCE OF 26.87 FEET, (5) SOUTH 84°37'51" WEST A DISTANCE OF 30.30 FEET, (6) NORTH 84°00'36" WEST A DISTANCE OF 106.39 FEET, (7) SOUTH 87°14'29" WEST A DISTANCE OF 28.07 FEET, (8) SOUTH 63°34'44" WEST A DISTANCE OF 33.91 FEET, (9) SOUTH 46°36'29" WEST A DISTANCE OF 30.13 FEET, (10) SOUTH 82°19'18" WEST A DISTANCE OF 84.84 FEET TO A POINT IN THE LEASE LINE OF SAID HILLTOP PROPERTIES, LLC, SAID POINT BEING THE TERMINUS OF THE 30' ACCESS AND PRIVATE UTILITY EASEMENT; THENCE ALONG THE LEASE LINE SOUTH 08°51'25" WEST A DISTANCE OF 568.47 FEET FOR A TIE TO A POINT IN THE NORTHERN LINE OF GREENSBORO EQUIPMENT CARE CENTER, LLC AS RECORDED IN DEED BOOK 4816, PAGE 635.

THIS DESCRIPTION DESCRIBES THE CENTER LINE OF A 30' ACCESS AND PRIVATE UTILITY EASEMENT, BEING OFFSET 15 FEET EACH SIDE OF SAID CENTERLINE, CONTAINING 0.448 ACRES MORE OR LESS.

GENERAL NOTES

1. NO. OF LOTS: 1
2. TOTAL AREA: 6.82 ACRES
3. WATER SHED: UPPER RANDLEMAN LAKE
4. LEGAL DESCRIPTION: LOT 2 PB 168 PG 33 HILLTOP PROPERTIES, LLC
5. PARCEL NO: 0099784
6. PIN: 7824-66-4084
7. DEED: 007335-00340
8. ZONING: HI
9. USE: INDUSTRIAL
10. SPECIAL USE PERMIT #33 APPROVED BY ZONING COMMISSION FEBRUARY 14, 2005. EFFECTIVE DATE FEBRUARY 25, 2005.
11. SUP CONDITIONS
    - 11.1. ACCESS WILL BE SHARED WITH ADJACENT PROPERTIES TO THE EAST.
    - 11.2. MAXIMUM BUILDING SIZE WILL BE 7,000 SQUARE FEET
    - 11.3. THERE WILL BE AN ON-SITE FACILITY FOR WATER SHED COMPLIANCE
12. STREET CLASSIFICATION: MINOR THOROUGHFARE.
13. EXISTING STREAM BUFFERS FOR RANDLEMAN LAKE WATERSHED.

DEVELOPMENT NOTES FOR LOT NO. 2

1. TOTAL AREA OF SITE IS 6.823 ACRES.
2. PLANNED BUA IS DELINEATED AS FOLLOWS:

PAVED ACCESS ROAD	0.605 AC
PAVED MATERIAL HANDLING AREA	1.121 AC
PAVED EMPLOYEE PARKING AREA	0.269 AC
GRAVEL TRAILER PARKING AREA	0.638 AC
TOTAL EXISTING BUA	2.633 AC
TOTAL PLANNED BUA	2.633 AC
PERCENTAGE BUA	38.6%

3. BUA CALCULATIONS ARE BASED ON ADJUSTED ACREAGE PER AUGUST 7, 2006 PLAT.

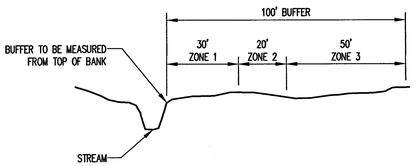
WATERSHED PROTECTION NOTES

UPPER RANDLEMAN LAKE WATERSHED STREAM BUFFER REQUIREMENTS:
(HIGH DENSITY OPTION-PERENNIAL STREAM

- ALL STREAM BUFFERS ARE SHOWN ON THIS PLAN. ALL STREAM BUFFERS SHALL HAVE THE FOLLOWING REQUIREMENTS.
- RANDLEMAN ZONE 1: (30' WIDE) IT IS THE PROPORTION OF A RIPARIAN PROTECTION AREA REQUIRED IN UPPER AND LOWER RANDLEMAN LAKE WATERSHEDS LOCATED CLOSEST TO THE STREAM. IT IS INTENDED TO BE AN UNDISTURBED AREA OF VEGETATION.
- RANDLEMAN ZONE 2: (20' WIDE) IT IS THE REMAINDER OF A RIPARIAN PROTETION AREA. IT IS INTENDED TO PROVIDE PROTECTION THROUGH A VEGETATED RIPARIAN ZONE WHICH PROVIDED FOR DIFFUSION AND INFILTRATION OF RUNOFF AND FILTERING OF POLLUTANTS.
- RANDLEMAN ZONE 3: (50' WIDE) IT IS NOT PART OF A RIPARIAN PROTECTION AREA AND THEREFORE IS SUBJECT TO LESS EXTENSIVE THEN ARE RANDLEMEN ZONES 1 AND 2. RANDLEMAN ZONE 3 COVERS THE OUTERMOST FIFTY (50) FEET OF THE ONE HUNDRED (100) FOOT PERENNIAL STREAM BUFFERS UNDER THE HIGH DENSITY OPTION IN THE UPPER AND LOWER RANDLEMAN LAKE WATERSHEDS.

NOTES:

- NO BUILT UPON AREA IS ALLOWED WITHIN THE ENTIRE 100 FOOT BUFFER.
- THE PROPERTY OWNER IS RESPONSIBLE FOR MAINTAINING THE STORMWATER CONTROL(S) ACCORDING TO THE APPROVED MAINTENANCE PLAN AND DIRECTION OF THE CITY OF GREENSBORO.
- THE CITY OF GREENSBORO AND THEIR ASSIGNS HAVE RIGHT TO ACCESS THE STORM WATER CONTROL(S) FOR INSPECTIONS AND MAINTENANCE, AS NECESSARY.
- ALL OF THE NECESSARY APPROVALS HAVE BEEN OBTAINED FROM THE STATE AND CORPS FOR ANY STREAM CROSSINGS/WETLANDS DISTURBANCE.



THE DEVELOPMENT SHOWN ON THIS PLAN IS CONSISTENT WITH THE PROVISIONS CONTAINED ON THE PLAN ENTITLED SITE DEVELOPMENT GENERAL FACILITY PLAN (TRACKING NUMBER 2006-1355) PREPARED BY DAVID GARRETT, PG, PE. AND APPROVED BY TRC ON NOVEMBER 13, 2007 AND THEREFORE NO ADDITIONAL QUANTITY OR QUALITY CONTROL IS REQUIRED.

CITY OF GREENSBORO PLAN APPROVALS

1. SITE PLANS RECEIVED TRC APPROVAL ON 11/13/07. TRACKING NUMBER: 2006-1355.
2. CITY OF GREENSBORO ENGINEERING DEPARTMENT, UTILITY PLAN APPROVED FOR CONSTRUCTION ON 11/9/10.
3. CITY OF GREENSBORO WATER RESOURCES DEPARTMENT, UTILITY PLAN APPROVED FOR CONSTRUCTION ON 11/9/10.

CERTIFICATION

ORIGINAL DOCUMENTS WERE ISSUED AND SEALED BY G. DAVID GARRETT, PG, PE 25462 ON 8/30/06 AND 10/30/07. APPROVED DOCUMENTS WERE ISSUED AND SEALED BY B. BRUCE NOOE, PE 23554 ON 11/17/01. REVISIONS MADE BY SMITH GARDNER, INC.

SITE ACCESSIBILITY NOTES

1. ENTRANCE LANDING W/ HAND RAIL 8'W X 25'L - SHALL COMPLY WITH NCBC AND NC VOL. 1
2. ACCESS RAMP W/ HAND RAIL, 6' W X 35'L ON 2% MAX. SLOPE, CURB CUT RAMP AT TRANSITION TO PAVEMENT SHALL COMPLY WITH NCBC AND NC, VOL. 1-C (PG-. 54)
3. PAVED HANDICAP PARKING SPCE 13'W X 20'L
4. PAVED HANDICAP ACCESS AISLE 9'W X 20'L (BOTH SIDES)
5. TYPICAL PARKING SPACE (ALL PAVED) 8.5'W X 20'L
6. LANDINGS OUTSIDE ALL DOORS SHALL BE SIZED PER THE NORTH CAROLINA BUILDING CODE (NCBC), BE AT THE SAME ELEVATION AS THE FFE, AND SHALL HAVE A MAX. 2% SLOPE IN ANY DIRECTION INCLUDING IN THE DIAGONAL.
7. ALL PEDESTRIAN ROUTES >5% (1:20), IF ANY, ARE LABELED AS 'RAMPS' SHOWING SLOPES, LEVEL LANDINGS AT TOP AND BOTTOM(MAX. 2% SLOPE IN ANY DIRECTION INCLUDING IN THE DIAGONAL), RAILINGS/GUARDRAILS, AND SHALL COMPLY WITH NCBC.
8. THE SLOPES IN THE HANDICAP PARKING SPACE/ACCESS AISLE AREA SHALL NOT EXCEED 2% IN ANY DIRECTION INCLUDING IN THE DIAGONAL.
9. THERE SHALL BE LEVEL TURNING AREAS (MAX. 2% SLOPE IN ANY DIRECTION INCLUDING IN THE DIAGONAL) ON ALL SIDEWALKS WHERE AN INTERSECTING SIDEWALK CONNECTS WITH IT.
10. THERE SHALL BE NO DESIGNATED PEDESTRIAN ROUTES/SIDEWALKS WITHIN THE SITE, EXCEPT WHERE LABELED AS A RAMP WITH RAILS, WHICH EXCEED A 5% SLOPE IN THE DIRECTION OF TRAVEL AND A 2% CROSSLOPE.
11. EXTERIOR EXIT DISCHARGE ILLUMINATION/LIGHTING SHALL BE REQUIRED FROM ALL EXIT DOORS TO THE PUBLIC WAY IN COMPLIANCE WITH NCBC 1006.
12. ALL DRIVEWAYS AND PARKING SHALL BE PAVED AND STRIPPED PRIOR TO RECEIVING A CERTIFICATE OF OCCUPANCY.

A MUTCD R7-8 SIGN SHALL BE POSTED ABOVE THE HANDICAP PARKING STALL, MEASURING 12'x18", WHICH SHALL BE PLACED ON THE BACK EDGE OF THE PEDESTRIAN AISLE (OUT OF WALKWAY)

A MUTCD N34 SIGN ($250 FINE) SHALL BE POSTED BELOW THE R7-8 H.C. PLAQUE

THE HEIGHT OF THE R7-8 SIGN SHALL BE 6-FT. (MEASURED FROM THE GROUND TO THE BASE OF THE PLACARD), PER CITY OF GREENSBORO ARTICLE V, A-5.20).

0 50' 100' 150'

PREPARED FOR:
WASTE INDUSTRIES USA, INC.
3301 BENSON DRIVE
SUITE 601
RALEIGH, NC 27609
(919) 325-3000

PREPARED BY:
NC LIC. NO. C-0828 (ENGINEERING)
SMITH+ GARDNER
ENGINEERS
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 21278 ENGINEER JOHN M. GARDNER
7/29/13

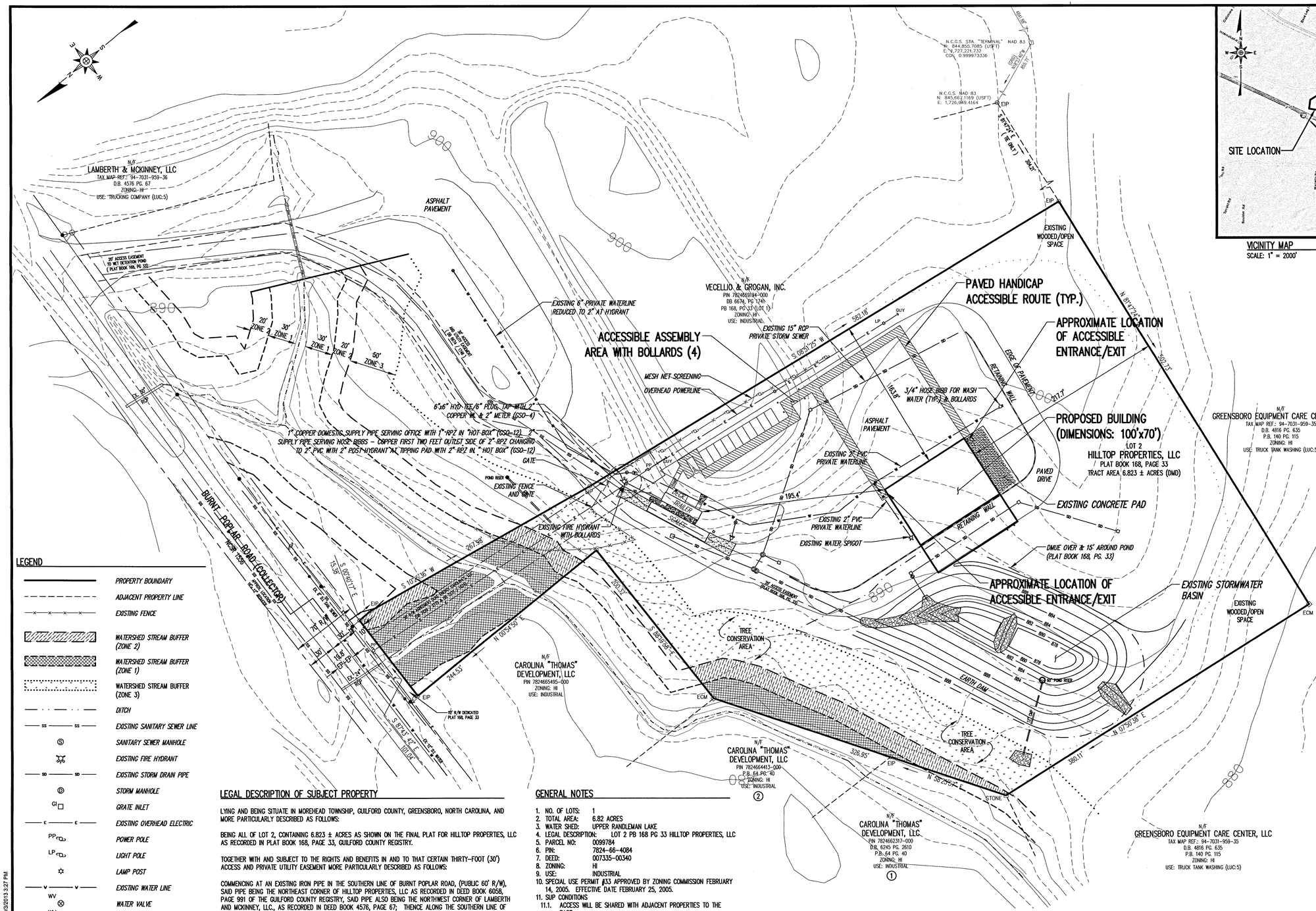
SEAL
NORTH CAROLINA PROFESSIONAL SEAL 23006 ENGINEER CHERYL W COVINGTON
7/25/13

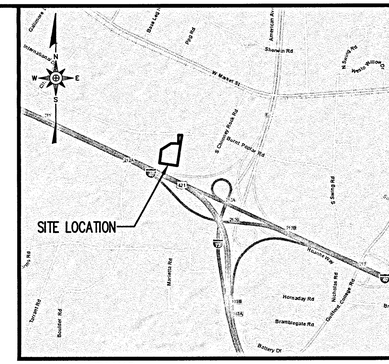
REV.	DATE	DESCRIPTION
1	7/29/13	RESPONSE TO COMMENTS

PROJECT TITLE:
WI BURNT POPLAR TRANSFER, LLC
CGD / MSW TRANSFER STATION
MOREHEAD TOWNSHIP
GUILFORD COUNTY
6313 BURNT POPLAR ROAD
GREENSBORO, NC

DRAWING TITLE:
EXISTING CONDITIONS

DESIGNED: J.W.C.	PROJECT NO: BURNT 12-1
DRAWN: C.T.J.	SCALE: AS SHOWN
APPROVED:	DATE: JUNE 2013
FILENAME: WI-D0836A	
SHEET NUMBER: --	DRAWING NUMBER: FIG.2





VICINITY MAP
SCALE: 1" = 2000'

LEGEND

- PROPERTY BOUNDARY
- ADJACENT PROPERTY LINE
- EXISTING FENCE
- WATERSHED STREAM BUFFER (ZONE 2)
- WATERSHED STREAM BUFFER (ZONE 1)
- WATERSHED STREAM BUFFER (ZONE 3)
- DITCH
- EXISTING SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING STORM DRAIN PIPE
- STORM MANHOLE
- GRATE INLET
- EXISTING OVERHEAD ELECTRIC
- POWER POLE
- LIGHT POLE
- LAMP POST
- EXISTING WATER LINE
- WATER VALVE
- WATER METER

REFERENCES

1. EXISTING SITE FEATURES ARE LABELED IN ITALICS.

REFERENCES

1. EXISTING FEATURES SHOWN FROM DRAWING "ALTA/ASCM LAND TITLE SURVEY FOR WI BURNT POPLAR TRANSFER, LLC MOREHEAD TOWNSHIP, GUILFORD COUNTY", DATED 2/9/12, PREPARED BY CPT ENGINEERING AND SURVEYING INC, HIGH POINT, NORTH CAROLINA.

LEGAL DESCRIPTION OF SUBJECT PROPERTY

LYING AND BEING SITUATE IN MOREHEAD TOWNSHIP, GUILFORD COUNTY, GREENSBORO, NORTH CAROLINA, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEING ALL OF LOT 2, CONTAINING 6.823 ± ACRES AS SHOWN ON THE FINAL PLAT FOR HILLTOP PROPERTIES, LLC AS RECORDED IN PLAT BOOK 168, PAGE 33, GUILFORD COUNTY REGISTRY.

TOGETHER WITH AND SUBJECT TO THE RIGHTS AND BENEFITS IN AND TO THAT CERTAIN THIRTY-FOOT (30') ACCESS AND PRIVATE UTILITY EASEMENT MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT AN EXISTING IRON PIPE IN THE SOUTHERN LINE OF BURNT POPLAR ROAD, (PUBLIC 60' R/W), SAID PIPE BEING THE NORTHEAST CORNER OF HILLTOP PROPERTIES, LLC AS RECORDED IN DEED BOOK 6058, PAGE 991 OF THE GUILFORD COUNTY REGISTRY, SAID PIPE ALSO BEING THE NORTHWEST CORNER OF LAMBERTH AND MCKINNEY, LLC., AS RECORDED IN DEED BOOK 4576, PAGE 67; THENCE ALONG THE SOUTHERN LINE OF BURNT POPLAR ROAD, NORTH 85°44'39" WEST, A DISTANCE OF 43.88 FEET TO A POINT IN THE CENTERLINE OF A 30' ACCESS AND PRIVATE UTILITY EASEMENT: THENCE LEAVING THE SOUTHERN LINE OF BURNT POPLAR ALONG THE CENTERLINE OF SAID 30' EASEMENT, THE FOLLOWING TEN (10) COURSES AND DISTANCES: (1) SOUTH 30°54'36" WEST A DISTANCE OF 211.58 FEET, (2) SOUTH 58°18'57" WEST A DISTANCE OF 60.74 FEET, 3) SOUTH 67°28'05" WEST A DISTANCE OF 37.88 FEET, (4) SOUTH 77°37'09" WEST A DISTANCE OF 26.87 FEET, (5) SOUTH 84°37'51" WEST A DISTANCE OF 30.30 FEET, (6) NORTH 84°00'36" WEST A DISTANCE OF 106.39 FEET, (7) SOUTH 87°14'29" WEST A DISTANCE OF 28.07 FEET, (8) SOUTH 63°34'44" WEST A DISTANCE OF 33.91 FEET. (9) SOUTH 46°36'29" WEST A DISTANCE OF 30.13 FEET, (10) SOUTH 82°19'18" WEST A DISTANCE OF 84.84 FEET TO A POINT IN THE LEASE LINE OF SAID HILLTOP PROPERTIES, LLC, SAID POINT BEING THE TERMINUS OF THE 30' ACCESS AND PRIVATE UTILITY EASEMENT; THENCE ALONG THE LEASE LINE SOUTH 08°51'25" WEST A DISTANCE OF 568.47 FEET FOR A TIE TO A POINT IN THE NORTHERN LINE OF GREENSBORO EQUIPMENT CARE CENTER, LLC AS RECORDED IN DEED BOOK 4816, PAGE 635.

THIS DESCRIPTION DESCRIBES THE CENTER LINE OF A 30' ACCESS AND PRIVATE UTILITY EASEMENT, BEING OFFSET 15 FEET EACH SIDE OF SAID CENTERLINE, CONTAINING 0.448 ACRES MORE OR LESS.

GENERAL NOTES

1. NO. OF LOTS: 1
2. TOTAL AREA: 6.82 ACRES
3. WATER SHED: UPPER RANDLEMAN LAKE
4. LEGAL DESCRIPTION: LOT 2 PB 168 PG 33 HILLTOP PROPERTIES, LLC
5. PARCEL NO: 0099784
6. PIN: 7824-66-4084
7. DEED: 007335-00340
8. ZONING: HI
9. USE: INDUSTRIAL
10. SPECIAL USE PERMIT #33 APPROVED BY ZONING COMMISSION FEBRUARY 14, 2005. EFFECTIVE DATE FEBRUARY 25, 2005.
11. SUP CONDITIONS
    - 11.1. ACCESS WILL BE SHARED WITH ADJACENT PROPERTIES TO THE EAST.
    - 11.2. MAXIMUM BUILDING SIZE WILL BE 7,000 SQUARE FEET
    - 11.3. THERE WILL BE AN ON-SITE FACILITY FOR WATER SHED COMPLIANCE

DEVELOPMENT NOTES

1. EXISTING GROSS FLOOR AREA: 1,000 S.F.
2. PROPOSED GROSS FLOOR AREA: 7,000 S.F.
3. EXISTING B.U.A.: 2.2 AC.
4. PROPOSED B.U.A.: 2.2 AC.

CERTIFICATION

ORIGINAL DOCUMENTS WERE ISSUED AND SEALED BY G. DAVID GARRETT, PG, PE 25462 ON 8/30/06 AND 10/30/07. APPROVED DOCUMENTS WERE ISSUED AND SEALED BY B. BRUCE NOOE, PE 23554 ON 11/17/01. REVISIONS MADE BY SMITH GARDNER, INC.

SITE ACCESSIBILITY NOTES

1. PEDISTRIAN ROUTES/MARKINGS ARE FOR HANDICAP ACCESSIBILITY ONLY.
2. LANDINGS OUTSIDE ALL DOORS SHALL BE SIZED PER THE NORTH CAROLINA BUILDING CODE (NCBC), BE AT THE SAME ELEVATION AS THE FFE, AND SHALL HAVE A MAX. 2% SLOPE IN ANY DIRECTION INCLUDING IN THE DIAGONAL.
3. THE SLOPES IN THE HANDICAP ACCESS AISLE AREA SHALL NOT EXCEED 2% IN ANY DIRECTION INCLUDING IN THE DIAGONAL
4. THERE SHALL BE NO DESIGNATED PEDESTRIAN ROUTES/SIDEWALKS WITHIN THE SITE, EXCEPT WHERE LABELED AS A RAMP WITH RAILS, WHICH EXCEED A 5% SLOPE IN THE DIRECTION OF TRAVEL AND A 2% CROSSLOPE.
5. ALL PEDESTRIAN ROUTES >5% (1:20), IF ANY, ARE LABELED AS 'RAMPS' SHOWING SLOPES, LEVEL LANDINGS AT TOP AND BOTTOM(MAX. 2% SLOPE IN ANY DIRECTION INCLUDING IN THE DIAGONAL), RAILINGS/GUARDRAILS, AND SHALL COMPLY WITH NCBC.
6. EXTERIOR EXIT DISCHARGE ILLUMINATION/LIGHTING SHALL BE REQUIRED FROM ALL EXIT DOORS TO THE PUBLIC WAY IN COMPLIANCE WITH NCBC 1006.

PREPARED FOR:
WASTE INDUSTRIES USA, INC.
3301 BENSON DRIVE
SUITE 601
RALEIGH, NC 27609
(919) 325-3000

PREPARED BY:
NC LIC. NO. C-0828 [ENGINEERING]
SMITH+ GARDNER
ENGINEERS
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 21278 ENGINEER JOHN M. GARDNER
10/25/17

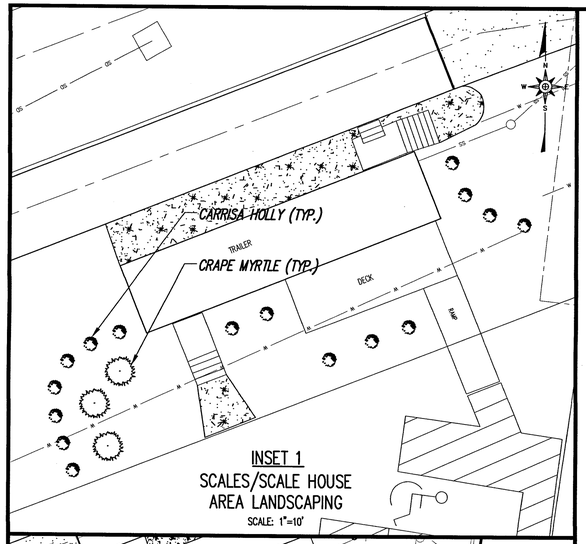
SEAL
NORTH CAROLINA PROFESSIONAL SEAL 23006 ENGINEER TERYL W. COVINGTON
10/23/13

REV.	DATE	DESCRIPTION
1	7/29/13	RESPONSE TO COMMENTS

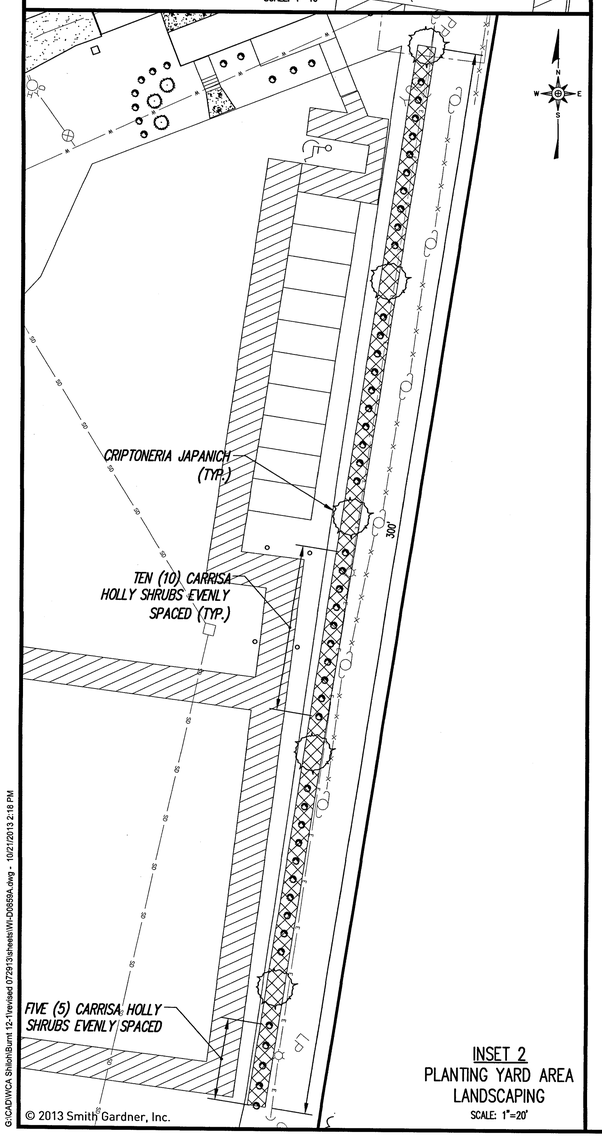
PROJECT TITLE:
WI BURNT POPLAR TRANSFER, LLC
CGD / MSW TRANSFER STATION
MOREHEAD TOWNSHIP
GUILFORD COUNTY
6313 BURNT POPLAR ROAD
GREENSBORO, NC

DRAWING TITLE:
SITE DEVELOPMENT
GENERAL FACILITY PLAN

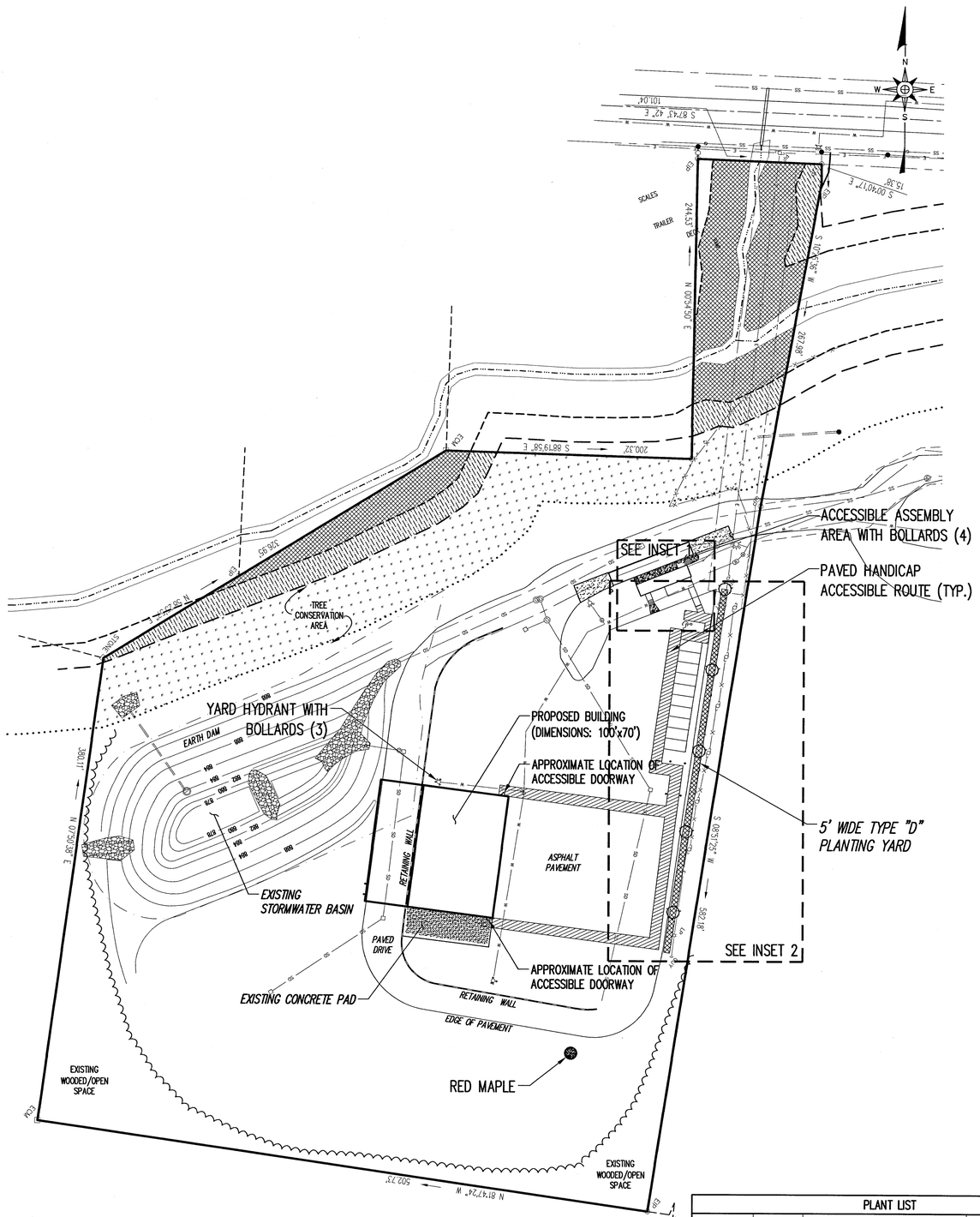
DESIGNED: J.W.C.	PROJECT NO.: BURNT 12-1
DRAWN: C.T.J.	SCALE: AS SHOWN
APPROVED:	DATE: JUNE 2013
FILENAME: WI-D0858A	
SHEET NUMBER: --	DRAWING NUMBER: FIG.3



INSET 1
SCALES/SCALE HOUSE
AREA LANDSCAPING
SCALE: 1"=10'



INSET 2
PLANTING YARD AREA
LANDSCAPING
SCALE: 1"=20'



PLANT LIST

QUANTITY	SYMBOL	DESCRIPTION	MINIMUM SIZE AT INSTALLATION	HEIGHT (FT.)
5		CRYPTOMERIA JAPONICA	1" CALIPER	50-60
61		ILEX CORNUTA (CARISSA HOLLY)	18" HEIGHT	2-4
1		ACER RUBRUM (RED MAPLE)	6" CALIPER	40-60
3		LAGERSTROMIA INDICA (CRAPE MYRTLE)	1" CALIPER	15-30

TREE PRESERVATION CALCULATIONS:

AREA IN ACRES	REQUIRED	ACTUAL
1. ZONES 1 AND 2 BUFFERS	0.243 AC	0.243 AC
2. ZONE 3 BUFFERS	NA	0.564 AC
3. TYPE-D PLANTING YARD (EXCLUDING BUFFERS)	0.474 AC	0.276 AC
4. ADDITIONAL 10' TCA	NA	0.608 AC
5. WOODED OPEN SPACE	NA	0.177 AC
TOTAL TREE PRESERVATION	0.717 AC	1.868 AC
TREE PRESERVATION AS PERCENTAGE OF SITE		29.5%
6. OTHER OPEN SPACE (PREV. TIMBERED BUFFERS)		0.516 AC
TOTAL TCA AND OPEN SPACE		2.384 AC.
TCA AND OPEN SPACE AS PERCENTAGE OF SITE		37.6%

TREE CONSERVATION DEDICATED ON PLAN #2006-1355 DRAWN BY DAVID GARRETT, P.G., P.E. AND APPROVED BY TRC ON NOVEMBER 13, 2007 (TRACKING NUMBER 2006-1355).

PLANTING RATES

REQUIRED TYPE D PLANTING YARD: ADJACENT TO PAVED PARKING AREA.
MINIMUM WIDTH: 5 FT. MAXIMUM WIDTH: 10 FT.
REQUIRED PLANTING RATE: 2 UNDERSTORY AND 18 SHRUBS PER 100 L.F.

NORTH PROPERTY BOUNDARY: ADJACENT TO TRAILER
PROVIDED: 3 UNDERSTORY TREES, 16 SHRUBS
EAST PROPERTY BOUNDARY: 300 FT
REQUIRED: 6 UNDERSTORY TREES, 54 SHRUBS
PROVIDED: 6 UNDERSTORY TREES, 60 SHRUBS

THE EXISTING ACER RUBRUM (RED MAPLE) WAS A REQUIRED TREE FOR THE PARKING LOT BUT WAS RELOCATED DUE TO OVERHED UTILITIES EASEMENT.

THE SIX "WATER WISE PLANTING TECHNIQUES" NOTES:

WATER WISE PLANTING TECHNIQUES: THE FOLLOWING SOIL PREPARATION TECHNIQUES SHALL BE USED FOR ALL REQUIRED LANDSCAPE AREAS.

1. SOIL PREPARATION FOR THE ENTIRE LANDSCAPE YARD INCLUDES THE ADDITION OF ORGANIC AMENDMENTS TILLED TO A DEPTH OF EIGHT (8) TO TWELVE (12) INCHES.
2. ALL PLANTING IN THE LANDSCAPE YARDS SHALL BE MULCHED INCLUDING INTERIOR PARKING LOTS ISLANDS UNDER FIVE HUNDRED (500) SQUARE FEET TO A DEPTH OF THREE (3) TO FOUR (4) INCHES AND MAINTAINED WEED FREE THEREAFTER.
3. EARTHERN BASINS ARE CONSTRUCTED AROUND THE INSTALLED PLANTS.
4. PLANTS AS PERMITTED BY THE ORDINANCE ARE GROUPED TOGETHER WHERE POSSIBLE.
5. FOR ESTABLISHED AND SURVIVAL, PLANTS SHALL BE WATERED IN THE FIRST YEAR OF PLANTING.
6. IRRIGATION: IT IS SUGGESTED THAT DRIP IRRIGATION, WHICH INCLUDES DRIP MASTERS, MUST BE USED FOR REQUIRED LANDSCAPING PLANTING BED DURING THE REQUIRED ESTABLISHMENT PERIOD. AFTER ESTABLISHMENT, SUPPLEMENTAL WATER ING CAN BE REDUCED AND USED ON AN AS NEEDED BASIS. TRADITIONAL SPRAY IRRIGATION IS PROHIBITED EXCEPT FOR TURF AREAS.

LEGEND

- PROPERTY BOUNDARY
- ADJACENT PROPERTY LINE
- EXISTING FENCE
- WATERSHED STREAM BUFFER (ZONE 2)
- WATERSHED STREAM BUFFER (ZONE 1)
- WATERSHED STREAM BUFFER (ZONE 3)
- DITCH
- EXISTING SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING STORM DRAIN PIPE
- STORM MANHOLE
- GRATE INLET
- EXISTING OVERHEAD ELECTRIC
- POWER POLE
- LIGHT POLE
- LAMP POST
- EXISTING WATER LINE
- WATER VALVE
- WATER METER

NOTE

1. EXISTING SITE FEATURES ARE LABELED IN ITALICS.

REFERENCES

1. EXISTING FEATURES SHOWN FROM DRAWING "ALTA/ASCM LAND TITLE SURVEY FOR WI BURNT POPLAR TRANSFER, LLC MOREHEAD TOWNSHIP, GUILFORD COUNTY", DATED 2/9/12, PREPARED BY CPT ENGINEERING AND SURVEYING INC, HIGH POINT, NORTH CAROLINA.

0 50' 100' 150'

PREPARED FOR:
WASTE INDUSTRIES USA, INC.
3301 BENSON DRIVE
SUITE 601
RALEIGH, NC 27609
(919) 325-3000

PREPARED BY:
NC LIC. NO. C-0828 (ENGINEERING)
SMITH+ GARDNER
ENGINEERS
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 21278 ENGINEER JOHN M. GARDNER
10/23/13

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 23006 ENGINEER JOSEPH W. COVINGTON
10/23/13

REV.	DATE	DESCRIPTION
1	7/29/13	RESPONSE TO COMMENTS

PROJECT TITLE:
WI BURNT POPLAR TRANSFER, LLC
C&D / MSW TRANSFER STATION
MOREHEAD TOWNSHIP
GUILFORD COUNTY
6313 BURNT POPLAR ROAD
GREENSBORO, NC

DRAWING TITLE:
LANDSCAPE MANAGEMENT PLAN

DESIGNED: J.W.C.	PROJECT NO.: BURNT 12-1
DRAWN: C.T.J.	SCALE: AS SHOWN
APPROVED:	DATE: JUNE 2013
FILENAME: WI-D0859A	
SHEET NUMBER: --	DRAWING NUMBER: FIG.4

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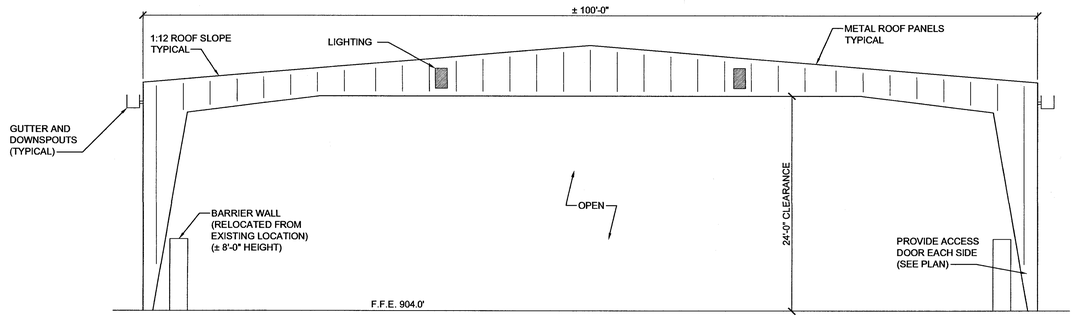
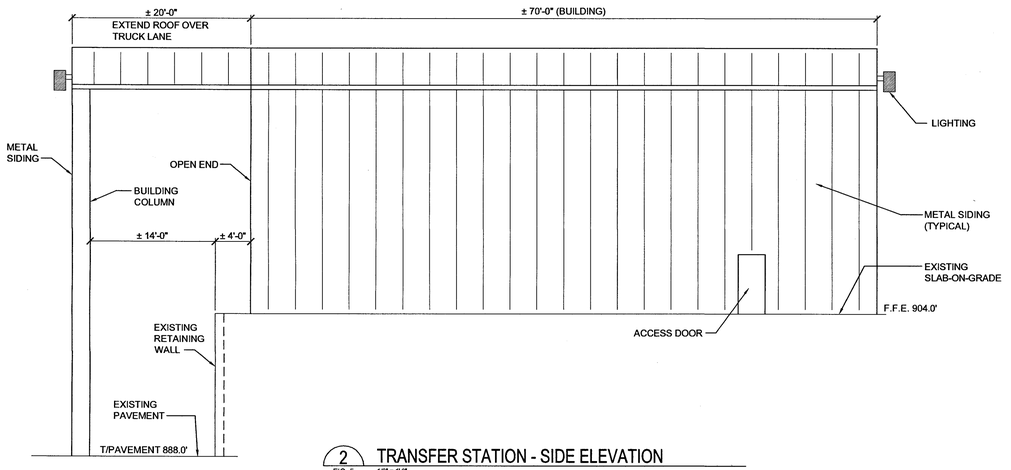
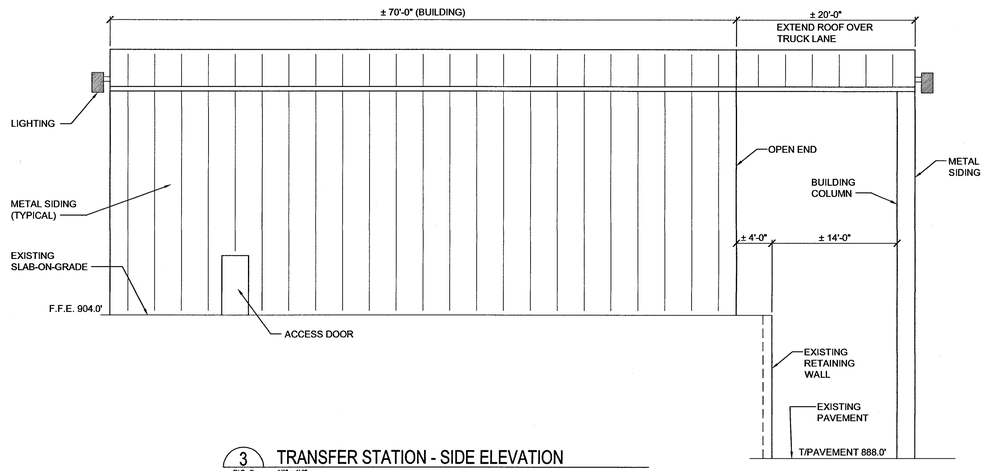


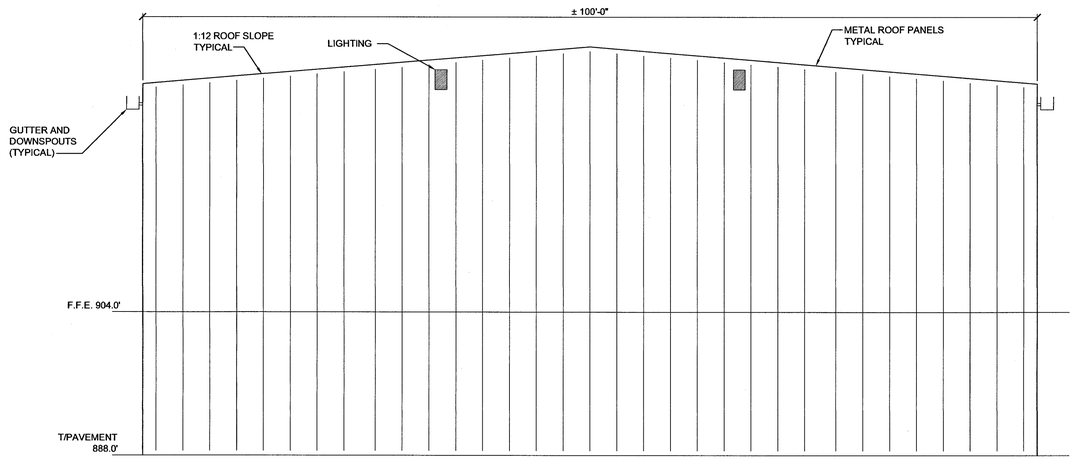
1 FIG. 5 TRANSFER STATION - FRONT ELEVATION 1/8" = 1'-0"



2 FIG. 5 TRANSFER STATION - SIDE ELEVATION 1/8" = 1'-0"



3 FIG. 5 TRANSFER STATION - SIDE ELEVATION 1/8" = 1'-0"



4 FIG. 5 TRANSFER STATION - REAR ELEVATION 1/8" = 1'-0"

PRELIMINARY
NOT FOR CONSTRUCTION

C:\Ross Linden\Commercial Projects\Smith Gardner\2013\C130305 Waste Industries Greensboro\Revised Per Review Comments\C130305-Waste Industries-Greensboro.dwg - 6/14/2013 11:36 AM

PREPARED FOR:
WASTE INDUSTRIES USA, INC
3301 BENSON DRIVE
SUITE 601
RALEIGH, NC 27609
(919) 325-3000

PREPARED BY:
NC LIC. NO. C-0828 (ENGINEERING)
SMITH + GARDNER
ENGINEERS
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

PREPARED BY:
ROSS LINDEN
ENGINEERS PC
710 W. NORTH STREET RALEIGH, NC 27603
TEL 919.832.5680 FAX 919.832.5675
WWW.ROSSLINDEN.COM NC LICENSE NO. C-2364

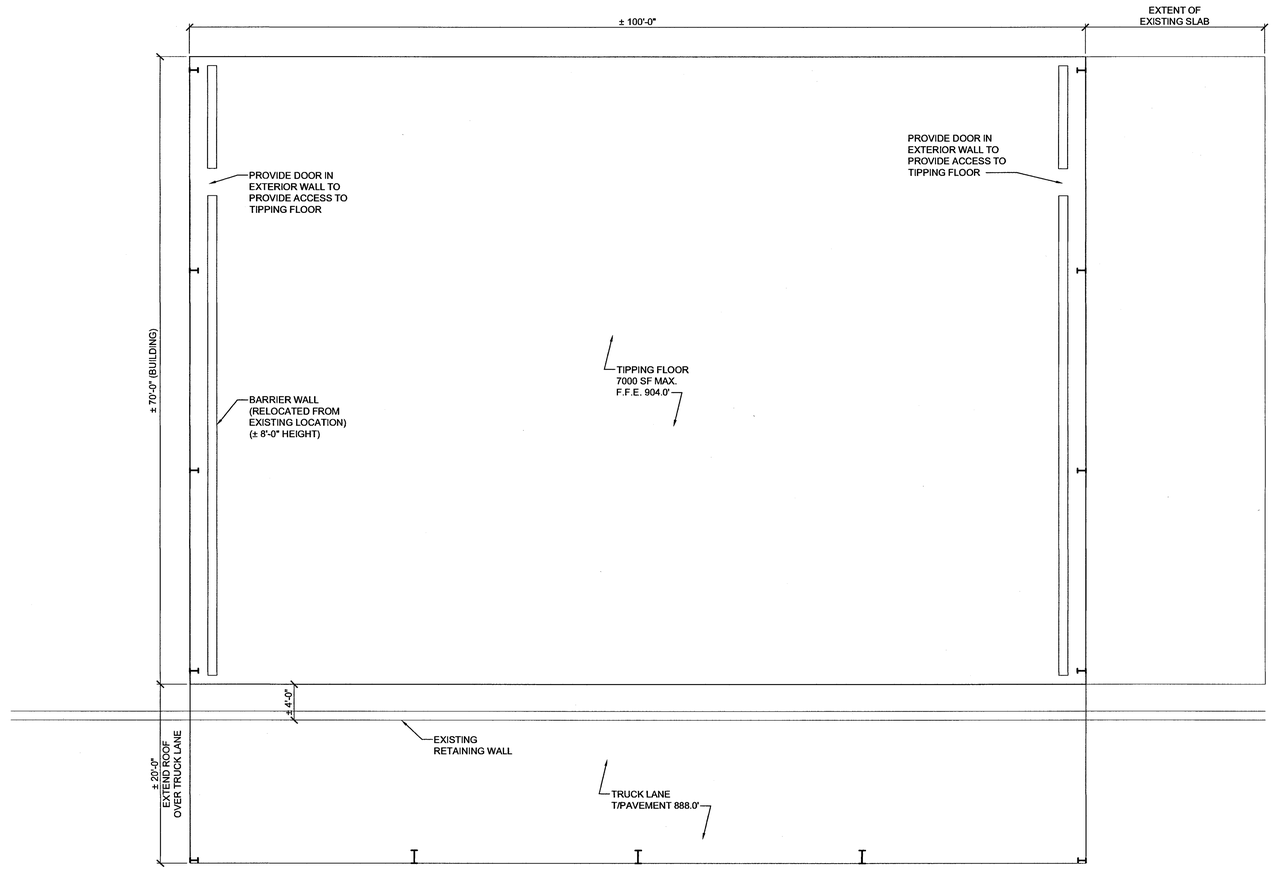
SEAL
NORTH CAROLINA PROFESSIONAL SEAL 025539 ENGINEER BRIAN M. ROSS 10-23-2013

REV.	DATE	DESCRIPTION
A	4/25/2013	TRC SKETCH PLAN REVIEW
B	6/5/2013	UPDATED PER COMMENTS

PROJECT TITLE:
WI BURNT POPLAR TRANSFER, LLC
C&D/MSW TRANSFER STATION
MOREHEAD TOWNSHIP
GUILFORD COUNTY
6313 BURNT POPLAR ROAD
GREENSBORO, NC

DRAWING TITLE:
TRANSFER STATION ELEVATIONS

DESIGNED:	PROJECT NO: C130305
DRAWN:	SCALE: 1/8" = 1'-0"
APPROVED:	DATE: JUNE 2013
FILENAME: C130305-WASTE INDUSTRIES-GREENSBORO	
SHEET NUMBER: --	DRAWING NUMBER: FIG. 5



1 FIG. 6 TRANSFER STATION - FLOOR PLAN
1/8" = 1'-0"

PRELIMINARY
NOT FOR CONSTRUCTION

PREPARED FOR:
WASTE INDUSTRIES USA, INC
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SEAL
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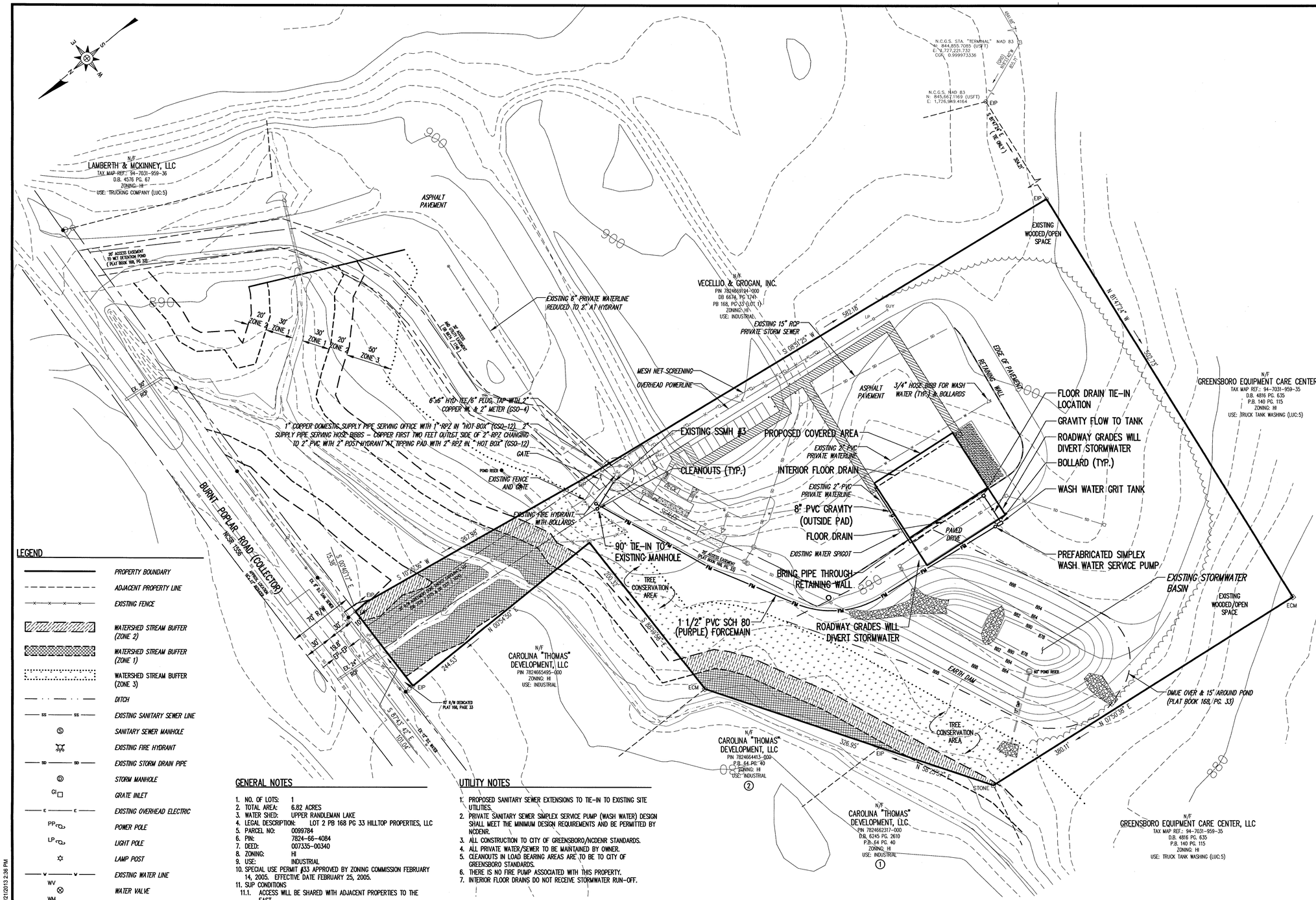
REV.	DATE	DESCRIPTION
A	4/25/2013	TRC SKETCH PLAN REVIEW
B	6/5/2013	UPDATED PER COMMENTS

PROJECT TITLE:
WI BURNT POPLAR TRANSFER, LLC
C&D/MSW TRANSFER STATION
MOREHEAD TOWNSHIP
GUILFORD COUNTY
6313 BURNT POPLAR ROAD
GREENSBORO, NC

DRAWING TITLE:
TRANSFER STATION
FLOOR PLAN

DESIGNED:	PROJECT NO: C130305
DRAWN:	SCALE: 1/8" = 1'-0"
APPROVED:	DATE: JUNE 2013
FILENAME: C130305-WASTE INDUSTRIES-GREENSBORO	
SHEET NUMBER: --	DRAWING NUMBER: FIG. 6



LEGEND

- PROPERTY BOUNDARY
- ADJACENT PROPERTY LINE
- EXISTING FENCE
- WATERSHED STREAM BUFFER (ZONE 2)
- WATERSHED STREAM BUFFER (ZONE 1)
- WATERSHED STREAM BUFFER (ZONE 3)
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- EXISTING SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING STORM DRAIN PIPE
- STORM MANHOLE
- GRATE INLET
- EXISTING OVERHEAD ELECTRIC
- POWER POLE
- LIGHT POLE
- LAMP POST
- EXISTING WATER LINE
- WATER VALVE
- WATER METER

REFERENCES

1. EXISTING SITE FEATURES ARE LABELED IN ITALICS.

REFERENCES

1. EXISTING FEATURES SHOWN FROM DRAWING "ALTA/ASCM LAND TITLE SURVEY FOR WI BURNT POPLAR TRANSFER, LLC MOREHEAD TOWNSHIP, GUILFORD COUNTY", DATED 2/9/12, PREPARED BY CPT ENGINEERING AND SURVEYING INC, HIGH POINT, NORTH CAROLINA.

GENERAL NOTES

1. NO. OF LOTS: 1
2. TOTAL AREA: 6.82 ACRES
3. WATER SHED: UPPER RANDLEMAN LAKE
4. LEGAL DESCRIPTION: LOT 2 PB 168 PG 33 HILLTOP PROPERTIES, LLC
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6. PIN: 7824-66-4084
7. DEED: 007335-00340
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9. USE: INDUSTRIAL
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    - 11.2. MAXIMUM BUILDING SIZE WILL BE 7,000 SQUARE FEET
    - 11.3. THERE WILL BE AN ON-SITE FACILITY FOR WATER SHED COMPLIANCE

DEVELOPMENT NOTES

1. EXISTING GROSS FLOOR AREA: 1,000 S.F.
2. PROPOSED GROSS FLOOR AREA: 7,000 S.F.
3. EXISTING B.U.A.: 2.2 AC.
4. PROPOSED B.U.A.: 2.2 AC.

CERTIFICATION

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UTILITY NOTES

1. PROPOSED SANITARY SEWER EXTENSIONS TO TIE-IN TO EXISTING SITE UTILITIES.
2. PRIVATE SANITARY SEWER SIMPLEX SERVICE PUMP (WASH WATER) DESIGN SHALL MEET THE MINIMUM DESIGN REQUIREMENTS AND BE PERMITTED BY NCDENR.
3. ALL CONSTRUCTION TO CITY OF GREENSBORO/NCDENR STANDARDS.
4. ALL PRIVATE WATER/SEWER TO BE MAINTAINED BY OWNER.
5. CLEANOUTS IN LOAD BEARING AREAS ARE TO BE TO CITY OF GREENSBORO STANDARDS.
6. THERE IS NO FIRE PUMP ASSOCIATED WITH THIS PROPERTY.
7. INTERIOR FLOOR DRAINS DO NOT RECEIVE STORMWATER RUN-OFF.

PRELIMINARY
NOT FOR CONSTRUCTION

0 50' 100' 150'

G:\CAD\WCA Shish\Burnt 12-1\revised 072913\sheet\WI-D0880.dwg - 10/21/2013 2:36 PM

PREPARED FOR:

WASTE INDUSTRIES USA, INC.
3301 BENSON DRIVE
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PREPARED BY:

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SEAL

NORTH CAROLINA PROFESSIONAL SEAL 23278 ENGINEER JOHN M. GARDNER 10/23/13

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 23006 ENGINEER CHERYL W COVINGTON 10/23/13

REV.	DATE	DESCRIPTION
1	7/29/13	RESPONSE TO COMMENTS

PROJECT TITLE:

WI BURNT POPLAR TRANSFER, LLC
C&D / MSW TRANSFER STATION
MOREHEAD TOWNSHIP
GUILFORD COUNTY
6313 BURNT POPLAR ROAD
GREENSBORO, NC

DRAWING TITLE:

SITE DEVELOPMENT UTILITY PLAN

DESIGNED:	J.W.C.	PROJECT NO:	BURNT 12-1
DRAWN:	C.T.J.	SCALE:	AS SHOWN
APPROVED:		DATE:	AUG. 2013
FILENAME:	WI-D0880		
SHEET NUMBER:	--	DRAWING NUMBER:	FIG.7

Attachment D

Local Government Approval

Permit to Construct Application
WI Burnt Poplar Transfer, LLC
NC Solid Waste Permit No. 41-22T

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City of Greensboro
North Carolina

2005-02-I

I

NOTICE OF PUBLIC HEARING
GREENSBORO ZONING COMMISSION
FEBRUARY 14, 2005

A request for a Special Use Permit to allow a Refuse and Raw Materials Transfer Point in a Heavy Industrial District on a portion of the property south of Burnt Poplar Road west of South Chimney Rock Road has been received by the Greensboro Zoning Commission. If approved, use of the property would be limited by the following conditions contained in the Special Use Permit:

1) Access will be shared with adjacent property to the east.
2) Maximum building size will be 7,000 square feet.
3) There will be an on-site facility for watershed compliance.

A map of the area requested for the Special Use Permit appears on the reverse.

An ordinance granting a Special Use Permit for the above mentioned use will be considered at a public hearing by the Greensboro Zoning Commission on Monday, February 14, 2005, at 2:00 p.m., in the Council Chamber, Melvin Municipal Office Building, 300 West Washington Street. As a matter of information, it is possible that the Zoning Commission may impose conditions in granting a Special Use Permit. Any ordinance granting a Special Use Permit when approved by at least six affirmative votes of the Greensboro Zoning Commission shall constitute final action and approval of such ordinance unless otherwise appealed to the City Council. Any appealed ordinances will be heard by the City Council on March 15, 2005. If a majority, but less than six members of the Zoning Commission vote in favor of this request, it will be heard by the City Council on March 1, 2005.

A Special Use Permit request requires a public hearing where all evidence is presented under oath. **Proponents and opponents are provided a total of 25 minutes each to be heard, notwithstanding the number of persons desiring to speak. Proponents are heard first followed by comments from opponents. Each side may speak for a total of 5 minutes in rebuttal.** Due to the quasi-judicial nature of the hearing, no *ex parte* communication on the conditions is allowed – only evidence in the record at the hearing itself may be considered on these issues. Therefore, the Zoning Commission and City Council members cannot discuss, or receive, information, either orally or in writing, pertaining to the conditions outside of the public hearing

A "Zoning Staff Report" pertaining to this request will be available the Thursday prior to the Zoning Commission public hearing. This report can be found by visiting the Planning Department website at www.greensboro-nc.gov/planning/ and then clicking on "Zoning Commission".

Since this notice will not necessarily reach everyone in the area, please discuss it with other residents who may have an interest in this proposal. Anyone wishing to be heard on this matter should appear at the public hearing or arrange to be represented. For further information, call the Department of Planning, 300 West Washington Street - Telephone (336) 373-2144 (TDD: (336) 333-6930).

William F. Ruska, Jr.

William F. Ruska, Jr., AICP
Zoning Administrator

640

City of Greensboro

Date: January 20, 2005

To: City Council

From: William F. Ruska, Jr., Zoning Administrator WFR

Subject: Certification of Notice to Property Owners

I hereby certify that all owners of record (as shown in the county tax listings) of parcels of land in or abutting on all rezoning requests scheduled to be heard at the February 14, 2005 Zoning Commission meeting (see attached agenda) have been notified by first class mail as required by North Carolina Statutes 160A-384. Notices were mailed on January 18 and 19, 2004.

EXHIBIT 3237
PAGE NO. 6264

05-43

AMENDING OFFICIAL ZONING MAP AND AUTHORIZING ISSUANCE OF SPECIAL USE PERMIT

SOUTH OF BURNT POPLAR ROAD WEST OF SOUTH CHIMNEY ROCK ROAD

BE IT ORDAINED BY THE ZONING COMMISSION OF THE CITY OF GREENSBORO:

Section 1. The Official Zoning Map is hereby amended by the issuance of a Special Use Permit authorizing use of the property described below for a Refuse and Raw Materials Transfer Point in a Heavy Industrial District (subject to those conditions and limitations as set forth in Section 2, 3, and 4 of this ordinance):

> BEGINNING at a point in the line of Truckworks LTD, LLC as recorded in Deed Book 4484, Page 1970 in the Office of the Guilford County Register of Deeds, thence S55°47'24"E 68.37 feet to a point; thence S11°46'43"W 413.94 feet to a point; thence N78°13'17"W 250.13 feet to a point; thence N10°20'10"E 418.26 feet to a point; thence S85°24'40"E 200.45 feet to the point and place of BEGINNING, containing approximately 2.53 acres as shown on "Construction and Demolition Recycling Facility Hilltop Properties, LLC" prepared by Borum, Wade and Associates and dated January 5, 2005.

Section 2. That the issuance of a Special Use Permit is hereby authorized subject to the following conditions:

1) Access will be shared with adjacent property to the east.
2) Maximum building size will be 7,000 square feet.
3) There will be an on-site facility for watershed compliance.

Section 3. For use as a Refuse and Raw Materials Transfer Point, this property will be perpetually bound and subject to the conditions imposed in Section 2, unless subsequently changed or amended, or until such time as this Special Use Permit shall expire or the permitted activity shall be discontinued, as provided for in Chapter 30 of the Greensboro Code of Ordinances. Final plans for any development to be made pursuant to this Special Use Permit shall be submitted to the Technical Review Committee for approval.

Section 4. Any violations of, or failure to accept, any conditions and limitations imposed herein shall be subject to the remedies provided in Chapter 30 of the Greensboro Code of Ordinances.

Section 5. This ordinance shall be effective on February 25, 2005.

Approved as to form
City Attorney

The foregoing ordinance was adopted by the Greensboro Zoning Commission by an affirmative vote of at least six members on the 14 day of Feb, 2005 and will become effective Feb. 25, 2005.

Juanita F. Cooper
City Clerk

3237
6264

City of Greensboro Planning Department
Zoning Staff Report
February 14, 2005 Public Hearing

The information provided in this staff report has been included for the purpose of reviewing proposed zoning changes. Since the zoning process does not require a site plan, there may be additional requirements placed on the property through the Technical Review Committee process to address subdivision and development regulations.

Item: I
Location: South of Burnt Poplar Road west of South Chimney Rock Road.

Applicant: Hilltop Properties, LLC
Owner: Hilltop Properties, LLC

Request: Special Use Permit for a Refuse and Raw Materials Transfer Point (Zoned HI)

Conditions: 1) Access will be shared with adjacent property to the east.
2) Maximum building size will be 7,000 square feet.
3) There will be an on-site facility for watershed compliance.

SITE INFORMATION	
Max. Developable Units & Density	N/A
Net Density of Developable Land	N/A
Existing Land Use	Undeveloped
Acreage	2.528
Physical Characteristics	*Topography:* Rolling *Vegetation:* Wooded *Other:* N/A
Overlay Districts	N/A
Historic District/Resources	N/A
Generalized Future Land Use	Industrial/Corporate Park
Other	N/A

SURROUNDING ZONING AND LAND USE			
Location		**Land Use**	**Zoning**
North	Colonial Pipeline		HI
South	I/40		HI
East	Milan Express Trucking		HI
West	Thomas Built Buses		HI

EXHIBIT 3237
6264

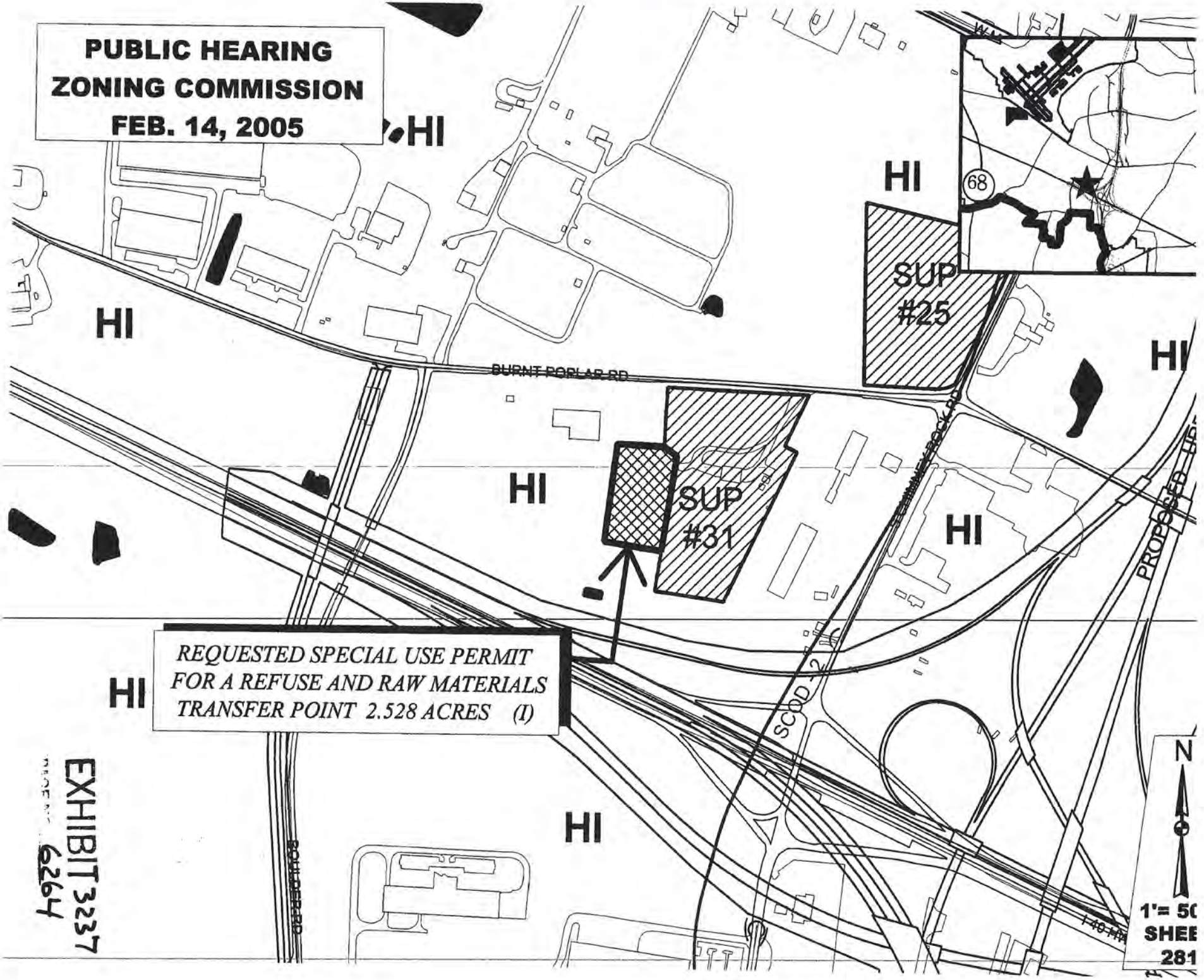
ZONING HISTORY		
Case #	**Year**	**Request Summary**
		This property has been zoned HI since July 1, 1992. Prior to the implementation of the UDO, it was zoned Industrial H.

EXISTING HEAVY INDUSTRIAL ZONING DISTRICT
HI: Primarily intended to accommodate a wide range of assembling, fabricating, and manufacturing activities. The district is established for the purpose of providing appropriate locations and development regulations for uses which may have significant environmental impacts or require special measures to ensure compatibility with adjoining properties.
:

TRANSPORTATION	
Street Classification	Burndt Poplar Road – Minor Thoroughfare.
Site Access	Existing.
Traffic Counts	Burndt Poplar Road ADT = 4,102
Trip Generation	N/A.
Sidewalks	N/A.
Transit	No.
Traffic Impact Study	Not required per TIS Ordinance.
Street Connectivity	N/A.
Other	N/A.

ENVIRONMENTAL REVIEW	
Water Supply Watershed	Yes, site drains to Lower Randleman Lake WS IV
Floodplains	N/A
Streams	Perennial stream in the property north of this site, 100' buffer is required if high-density development is chosen (24%-70% of built upon area) the stream buffer may encroach on this site. 50' buffer 50' buffer is required if low-density development is chosen (0%-24% of built upon area). Buffers are to be measured from top of stream bank and no built upon area is allowed within the buffer.
Other	Max BUA allowed for watershed density is 70%. All proposed BUA has to be treated by a state approved BMP.

EXHIBIT 3237
PAGE NO. 6264


PUBLIC HEARING
ZONING COMMISSION
FEB. 14, 2005
HI
HI
HI
HI
HI
HI
HI
SUP
#25
SUP
#31
BURNT POPLAR RD
REQUESTED SPECIAL USE PERMIT
FOR A REFUSE AND RAW MATERIALS
TRANSFER POINT 2.528 ACRES (I)
SCUD-2
68
N
EXHIBIT 3237
6264

STATE OF NORTH CAROLINA
COUNTY OF GUILFORD

NOTICE OF PUBLIC HEARING ON
ZONING CHANGES

Zoning changes have been requested for the areas listed below. The Greensboro Zoning Commission will consider ordinances grant a Special Use Permit for or to rezone the following areas (listed in order of appearance on the agenda):

BATTLEGROUND Avenue, southwest side, a portion of the property between COTSWOLD Avenue and BRASSFIELD Road.

Conditional District – Highway Business to Conditional District – Light Industrial with use limited to offices for a self-storage facility, self-storage buildings and accessory uses only; no overnight outside storage permitted; HVAC units screened from Battleground Avenue; freestanding signage not to exceed 25 feet in height; maximum building height will be 36 feet; storage of hazardous, toxic or explosive substances prohibited; hours of operation 8:00 a.m. to 8:00 p.m. Monday Transfer Point with access to be shared with adjacent property to the east; maximum building size will be 7,000 square feet; and there will be an on-site facility for watershed compliance.

BELMONT Street, west side, a portion of the property south of OLD JONES Road.

RS-9 Residential Single Family to RM-18 Residential Multifamily.

LEES CHAPEL Road, north side, a portion of the property between CHURCH Street and COLTRAIN Road.

RS-12 Residential Single Family to Conditional District – General Business for all uses permitted in GB, excluding uses with drive-thru service, banks and gasoline service stations, with the exception of any Agricultural uses; any Residential uses; any Recreational uses; certain Business, Professional and Personal Services; Warehousing and certain

Subscribed and sworn to before me this 3rd **day of** February, 2005.

Notary Public

My Commission Expires:

PUBLISHER'S AFFIDAVIT
JOHN MARSHA. KILIMANJARO

of lawful age, being duly sworn according to law, doth depose and say that he is Publisher of THE CAROLINA PEACEMAKER a newspaper published in the City of Greensboro and County of Guilford and State of North Carolina, and that notice, of which the annexed printed slip is a true copy, has been published in said newspaper, successively, for the period of 2 weeks, commencing on the 27th day of January, 2005 and that the said newspaper in which such notice was published, was, at the time of each and every publication, a newspaper meeting all the requirements and qualifications of Section 1-597 of the General Statutes of North Carolina and was a qualified newspaper within the meaning of Section 1-597 of the General Statutes of North Carolina.

John Marshall Kilimanjaro, Ed.D.

Affiant

EXHIBIT 3237
PAGE NO. 6264

LANDSCAPING REQUIREMENTS	
Location	**Required Planting Yard Type and Rate**
North	Type D Yard - 5' avg. width; 2 understory/100', 18 shrubs/100'
South	Type D Yard - 5' avg. width; 2 understory/100', 18 shrubs/100'
East	Type D Yard - 5' avg. width; 2 understory/100', 18 shrubs/100'
West	Type D Yard - 5' avg. width; 2 understory/100', 18 shrubs/100'

CONNECTIONS 2025 COMPREHENSIVE PLAN POLICIES

Connections 2025 Written Policies:

N/A

Connections 2025 Map Policies:
The area requested for rezoning lies within the following map classifications:

Industrial/Corporate Park: This designation applies to areas where present or anticipated uses include both light and heavy industrial uses, such as manufacturing, assembly, and fabrication; wholesaling and distribution; and corporate office and technology parks, which may be introduced to replace older heavy industrial uses. Although new residential development is discouraged in areas designated for this land use category, pre-existing residential uses may be present in or adjacent to these areas. As established industrial areas redevelop, such residential, institutional, or similar uses should be protected from adverse impacts (heavy truck traffic, significant outside storage, factors such as noise, dust, and glare, etc.) through performance-based standards, buffers, and proper separation from noxious uses.

CONFORMITY WITH OTHER PLANS

The following aspects of relevant plans may be applicable in this case:

City Plans: N/A

Other Plans: N/A

STAFF COMMENTS

Planning: A Special Use Permit (#25) for a Refuse and Raw Material Transfer Point was approved for the property at the northwest quadrant of Burnt Poplar Road and Chimney Rock Road by the City Council on February 4, 2003. The Zoning Commission made a favorable recommendation to the Council on that request. Widening of Burnt Poplar Road will require additional right-of-way acquisition and will be completed before the solid waste transfer facility opens.

A Special Use Permit (#31) for an Asphalt Plant was approved for the 9.2-acre parcel to the east of the subject property by the Zoning Commission on July 12, 2004. The proposed use is compatible with an Asphalt Plant and with other adjacent and nearby land uses.

EXHIBIT 3237
PAGE NO. 6264

This area has been uniformly zoned Heavy Industrial for many years. Heavy Industrial zoning is the most appropriate designation for a Refuse and Raw Material Transfer Point. This site provides good access to Interstate 40, the Airport Area, and the growing area bounded by Winston-Salem and Kernersville, northern High Point and western Greensboro.

GDOT: No additional comments.

Water Resources: Site may potentially have wetlands. If any disturbance to wetlands is proposed permits will have to be obtained from the state and corps of engineers prior to construction.

STAFF RECOMMENDATION

Based on all the information contained in this report, the Planning Department recommends approval.

EXHIBIT 3237
PAGE NO. 6264

GREENSBORO ®

APPLICATION FOR A SPECIAL USE PERMIT

Date Submitted

To Chairman, Greensboro Zoning Commission:

The undersigned respectfully requests that the Greensboro Zoning Commission, pursuant to Section 30-3-14 of the Development Ordinance, issue a Special Use Permit for the following use(s) subject to the following condition(s):

Use(s):

Refuse and raw materials transfer point.

Condition(s) By Applicant:

Access will be shared with adjacent property to east.

Maximum building size will be 7,000 square feet.

There will be an on-site facility for watershed compliance.

Condition(s) imposed by Zoning Commission and/or City Council are as follows:

Location of Property: South side of Burnt Poplar Road between Gallimore Dairy Road and Chimney Rock Road

Guilford County Map 94 7031 , Block 0955 , Lot(s) Part 10

EXHIBIT 3237
PAGE NO. 6264
Received
1-7-05
9:15 a.m. WFR.

(Application continues on back side of this form)

Application fee for request containing

Less than one acre	$250.00
One acre to 4.99 acres	$600.00
Five or more acres	$1,000.00

The property is owned by Hilltop Properties, LLC as shown on the detached deed or acceptable land survey of the property. (A survey map may be attached in lieu of a metes and bounds description.)

(See attached)

An application has been duly filed requesting that the property involved in this application be issued a Special Use Permit for the use(s) indicated in this Application. It is understood and acknowledged that if a Special Use Permit is issued as requested, the property involved in this request will be perpetually bound to the use(s) authorized and subject to such conditions as imposed, unless subsequently changed or amended as provided for in Chapter 30 of the City Code. It is further understood and acknowledged that final plans for any development to be made pursuant to any such Special Use Permit so authorized shall be submitted to the Technical Review Committee for review in the same manner as other development plans now required to be approved by the Technical Review Committee.

Before a Special Use Permit shall be granted by the Zoning Commission or City Council, each of the following findings must be made:

A) That the use will not materially endanger the public health or safety if located where proposed.

B) That the use will meet any restrictions imposed pursuant to Section 30-3-14.4 (Greater Restrictions);

C) That the use will not substantially injure the value of adjoining or abutting property, or that the use is a public necessity; and

D) That the location and character of the use will be in harmony with the area in which it is to be located and in general conformity with the plan of development of the City and its environs.

If the Zoning Commission or City Council does not make these findings, then the Special Use Permit shall not be granted.

Greater Restrictions

In granting a Special Use Permit, the Zoning Commission or City Council may impose more restrictive requirements as it may deem necessary in order that the purposes and intent of this Ordinance are served.

Expiration or Discontinuance of Special Use Permit

A) ***Expiration of Permit:*** Authorization of a Special Use Permit shall be void after two (2) years or such lesser time as the authorization may specify unless use of the property has begun and/or a footing inspection has been passed.

B) ***Discontinuance of Permitted Activity:*** If any special use is discontinued for a period exceeding eighteen (18) months or replaced by a use otherwise permitted in the zoning district, it shall be deemed abandoned and the Special Use Permit shall be null and void and of no effect. The owner shall demonstrate that the special use has not been discontinued for a period exceeding eighteen (18) months or has not been replaced by a use otherwise permitted to maintain a valid Special Use Permit.

Send notice to Charlie Melvin also

Hilltop Properties, LLC

By: D. H. Griffin, Sr.

Signature of Property Owner(s) D.H. Griffin, Sr., Manager

4700 Hilltop Road

Greensboro, NC 27407

Address(es)

336-855-7030

Telephone Number(s)

EXHIBIT 3237

PAGE NO. 6264

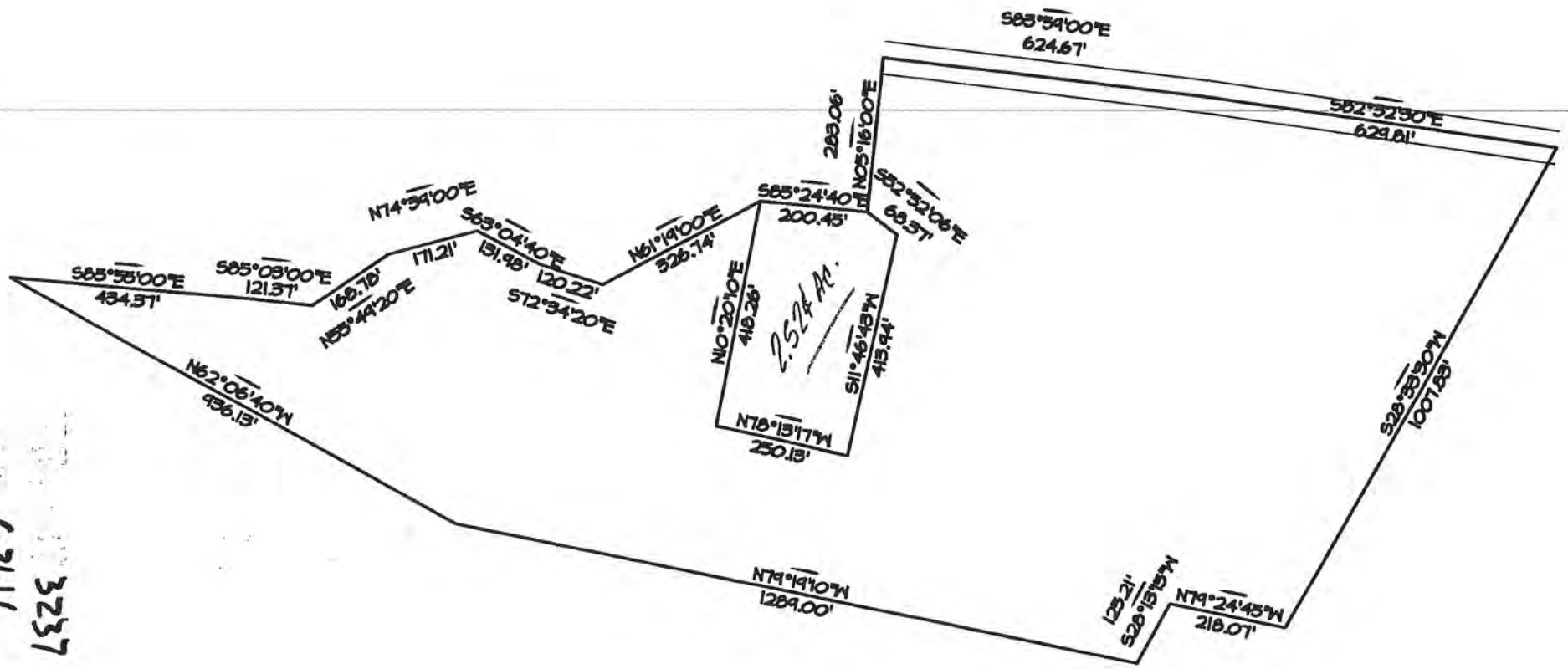
LEGAL DESCRIPTION FOR
THE SPECIAL USE TRACT OF
HILLTOP PROPERTIES, LLC
CONSTRUCTION & DEMOLITION RECYCLING FACILITY
BURNT POPLAR ROAD
GREENSBORO, NORTH CAROLINA
FRIENDSHIP TOWNSHIP, GUILFORD COUNTY

TAX ACL-94-7031-959-PT. 10

Beginning at a existing iron pipe, said iron pipe being on the northern boundary now or formerly of Hilltop Properties, LLC as described and recorded in Deed Book 6058, Page 991 and being known as the southeastern corner of now or formerly Truckworks Ltd., LLC as described and recorded in Deed Book 4484, Page 1970 in the Office of the Register of Guilford County, N.C.), said iron pipe also being located South 05°16'00" West 253.05 feet from the southern right-of-way of Burnt Poplar Road; thence, from said point of beginning, along the new proposed northern property line of a special use tract, South 52°52'06" East 68.37 feet to a point; thence, along the proposed eastern property line of a special use tract, South 11°46'43" West 413.94 feet to a point marking the proposed southeastern property corner of the above said special use tract; thence, along the proposed southern boundary of the special use tract North 78°13'17" West 250.13 feet to a point, said point also being the proposed southwestern corner of the above said special use tract; thence, along the proposed western property line of the above said special use tract North 10°20'10" East 418.26 feet to a existing concrete monument, said point also being the southwestern corner of the above said Truckworks Ltd., LLC; thence, along the recorded southern boundary of the now or formerly above said Truckworks Ltd., LLC South 85°24'40" East 200.45 feet to the point of beginning, containing an area of 2.524 acres, more or less.

Filename:f:\misc\dh-grifn\burntpoplar\legal_description.doc wjordan
01/07/05

EXHIBIT 3237
PAGE NO. 6264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S65°24'40"E
200.45'
S62°32'06"E
68.57'
N74°34'00"E
S63°04'40"E
131.98'
120.22'
N61°19'00"E
526.74'
S72°34'20"E
N55°49'20"E
166.78'
171.21'
S85°03'00"E
121.37'
S85°55'00"E
434.37'
N10°20'10"E
418.26'
2.524 Ac.
S11°46'43"W
413.94'
N78°13'17"W
250.13'
N62°06'40"W
936.13'
S26°33'30"W
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1289.00'
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S26°13'15"W
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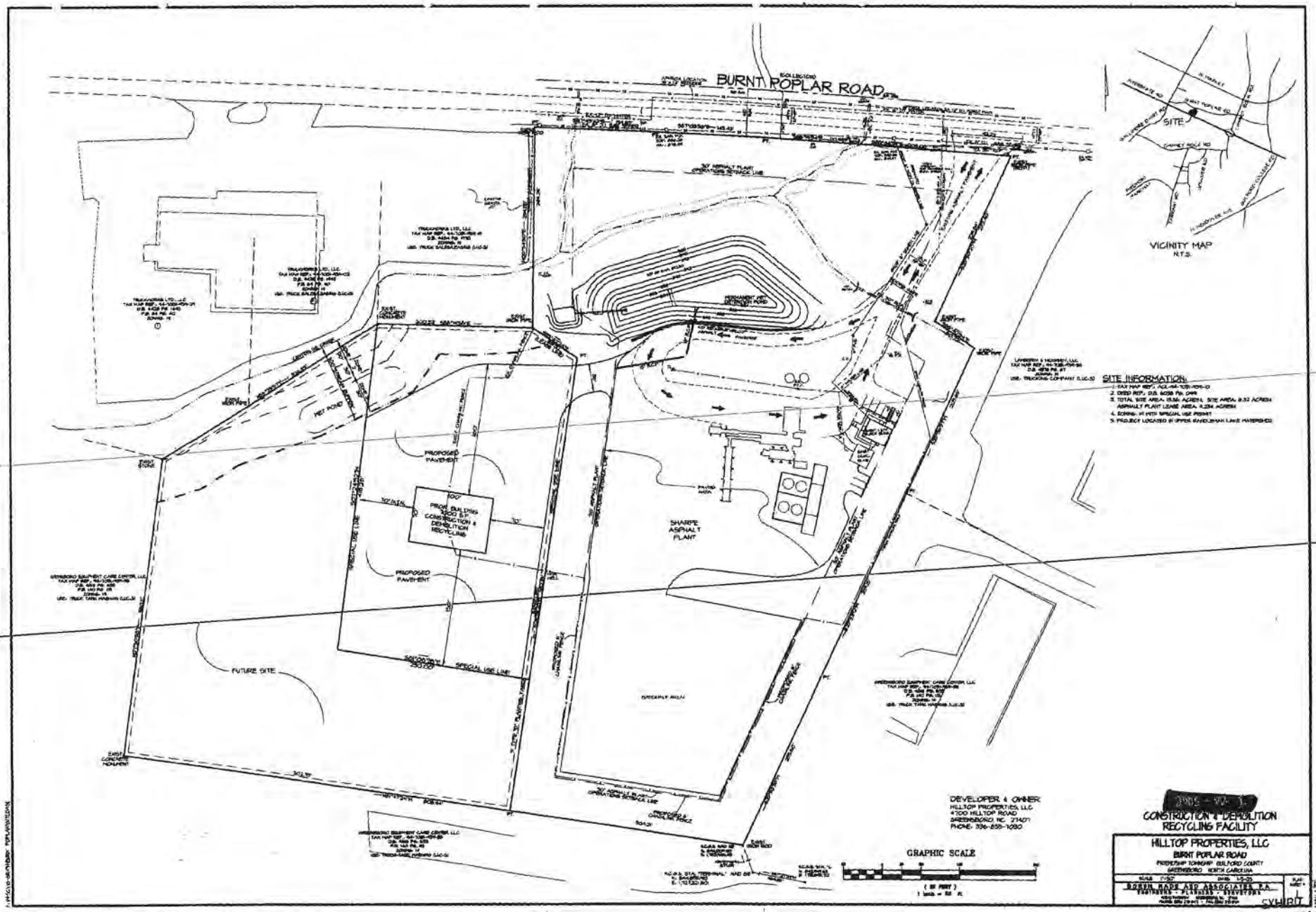
218.07'


BURNT POPLAR ROAD
SITE
VICINITY MAP
N.T.S.
SITE INFORMATION:
PROPOSED PAVEMENT
HOT POND
SHARPE ASPHALT PLANT
FUTURE SITE
SPECIAL USE LINE
DEVELOPER & OWNER
HILLTOP PROPERTIES, LLC
4100 HILLTOP ROAD
GREENSBORO, NC 27407
PHONE: 336-852-1080
GRAPHIC SCALE
CONSTRUCTION & DEMOLITION RECYCLING FACILITY
HILLTOP PROPERTIES, LLC
BURNT POPLAR ROAD
PIEDMONT TOWNSHIP, GUILFORD COUNTY
GREENSBORO, NORTH CAROLINA
ROBIN WADE AND ASSOCIATES P.A.
ENGINEERS · PLANNERS · SURVEYORS
EXHIBIT

6264

Mr. Hails stated that the adjacent development of which this is basically a later phase is fully in keeping with the Mixed Use Commercial designation of the site and the Comp Plan and staff feels it is one of the more creative mixed use developments in suburban areas around town. The addition is in support of fulfilling the completion of the project and, as such, staff recommends approval.

Ms. Shipman moved to introduce the ordinance to City Council, seconded by Mr. Collins. The Commission voted 6-2-1 in favor of the motion. (Ayes: Wolf, Collins, Gilmer, Shipman, Byrd, Haynes, Spangler. Nays: Schneider and Kauber. Abstained: Byrd.)

I. **AN ORDINANCE GRANTING A SPECIAL USE PERMIT FOR A REFUSE AND RAW MATERIALS TRANSFER POINT WITH THE FOLLOWING CONDITIONS: 1) ACCESS WILL BE SHARED WITH ADJACENT PROPERTY TO THE EAST. 2) MAXIMUM BUILDING SIZE WILL BE 7,000 SQUARE FEET. 3) THERE WILL BE AN ON-SITE FACILITY FOR WATERSHED COMPLIANCE. - FOR A PORTION OF THE PROPERTY LOCATED SOUTH OF BURNT POPLAR ROAD WEST OF SOUTH CHIMNEY ROCK ROAD – FOR HILLTOP PROPERTIES, LLC. (APPROVED)**

EXHIBIT
PAGE NO. 3237

Chair Wolf stated that Mr. Byrd would be recused from this item as his law firm represents the applicant.

Mr. Schneider moved to approve Mr. Byrd's recusal, seconded by Ms. Shipman. The Commission voted 9-0 in favor of the motion. (Ayes: Wolf, Collins, Schneider, Gilmer, Shipman, Kauber, Byrd, Haynes, Spangler. Nays: None.)

All speakers on this item were sworn or affirmed.

Mr. Ruska presented a map showing the subject property, as well as surrounding properties. He also presented slides of the subject property and noted issues in the staff report.

Chair Wolf opened the public hearing.

Charlie Melvin, 300 N. Greene Street, was previously sworn and stated that he represents D.H. Griffin who is the principal in the entity of Hilltop Properties. He presented photographs and other information relevant to the property. In July 2004, a Special Use Permit was granted for the asphalt plant. Construction is under way and it is anticipated that production will start within the next few months. This particular facility today, is immediately adjacent to the proposed asphalt plant and will allow the applicant to take refuse from demolition projects. That material will be brought in and sorted out and then sent to whatever facility utilizes it again for recycling. The remainder goes into the local landfill. The use will not materially endanger the public health or safety and the area in which it is located assures that. There are some specific ordinances for this type of use and they will have to be met and complied with.

No one else came forward to speak either in favor of or in opposition to the request. Chair Wolf closed the public hearing.

Mr. Hails stated that this is not a rezoning as it is currently Heavy Industrial and will remain so. It is in keeping with the Comp Plan's Future Land Use Map that shows the area as Industrial/Corporate Park which is the most intense land use classification we have. Staff feels that the testimony and the staff report supports the findings about not endangering public health and safety, injuring value of adjoining properties and is in harmony with the surrounding area. As such, staff recommends approval of the request.

Mr. Haynes moved to introduce the ordinance granting a Special Use Permit for use of this property for refuse and raw materials and transfer point be approved based on the following findings of fact: the use will not materially endanger the public heath or safety if located where proposed because there are no health or safety concerns inherent in the proposed use of the property at this specific location; the use will meet the restrictions imposed by the applicant which requires shared access with the property to the east, a maximum building size of 7,000 square feet, and an on-site facility for watershed compliance; the use will not substantially injure the value of adjoining or abutting property because all surrounding property is currently zoned for the full range of uses permitted under the Heavy Industrial zoning classification; and the location and character of the use will be in harmony with the area in which it is to be located and in general conformity with the plan of development of the City and its environs because this area is uniformly zoned Heavy Industrial and this area is designated as Industrial/Corporate Park by Connections 2025, seconded by Ms. Shipman. The Commission voted 8-0-1 in favor of the motion. (Ayes: Wolf, Collins, Schneider, Gilmer, Shipman, Kauber, Haynes, Spangler. Nays: None. Abstained: Byrd.)

At this time a 10 minute break was taken from 3:44 p.m. until 3:55 p.m.

J. **AN ORDINANCE REZONING FROM RS-9 RESIDENTIAL SINGLE FAMILY TO RM-18 RESIDENTIAL MULTIFAMILY – FOR A PORTION OF THE PROPERTY LOCATED ON THE WEST SIDE OF BELMONT STREET SOUTH OF OLD JONES ROAD – FOR D. ERIC STURDIVANT. (DENIED)**

EXHIBIT
PAGE NO. 3238

Chair Wolf stated that Mr. Byrd would be excused from the rest of the meeting.

Mr. Gilmer moved to approve Mr. Byrd's excused absence from the remainder of the meeting, seconded by Ms. Shipman. The Commission voted 9-0 in favor of the motion. (Ayes: Wolf, Collins, Schneider, Gilmer, Shipman, Kauber, Byrd, Haynes, Spangler. Nays: None.)

Mr. Ruska presented a map showing the subject property, as well as surrounding properties. He also presented slides of the subject property and noted issues in the staff report.

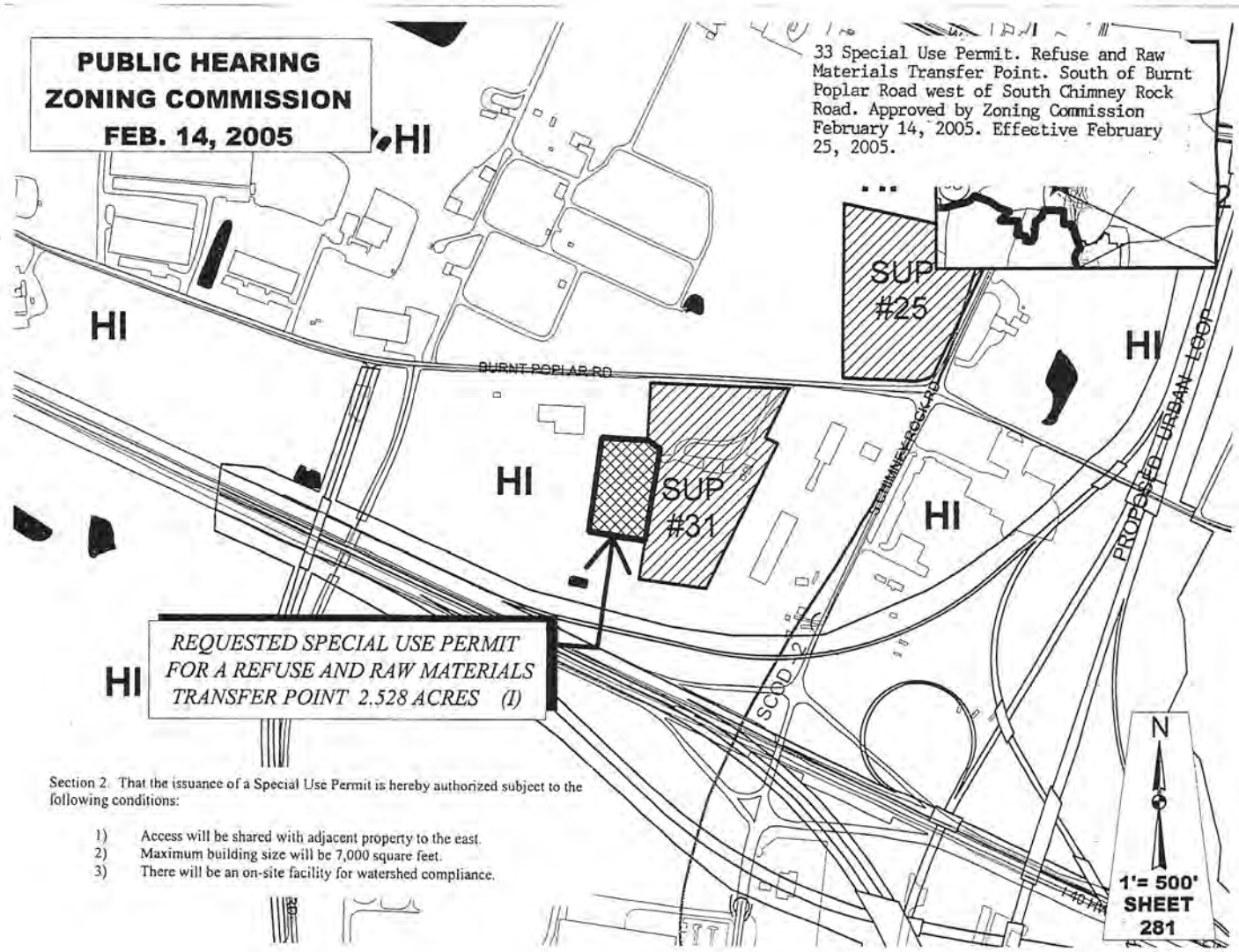
Chair Wolf opened the public hearing.

Eric Sturdivant, 1804 Sharp Road, stated that he would like to rezone this property to allow the construction of low to moderate income housing. The City's Comp Plan calls for this area to be rezoned to RM-18.

Chair Wolf asked if there was anyone to speak in opposition to this request.

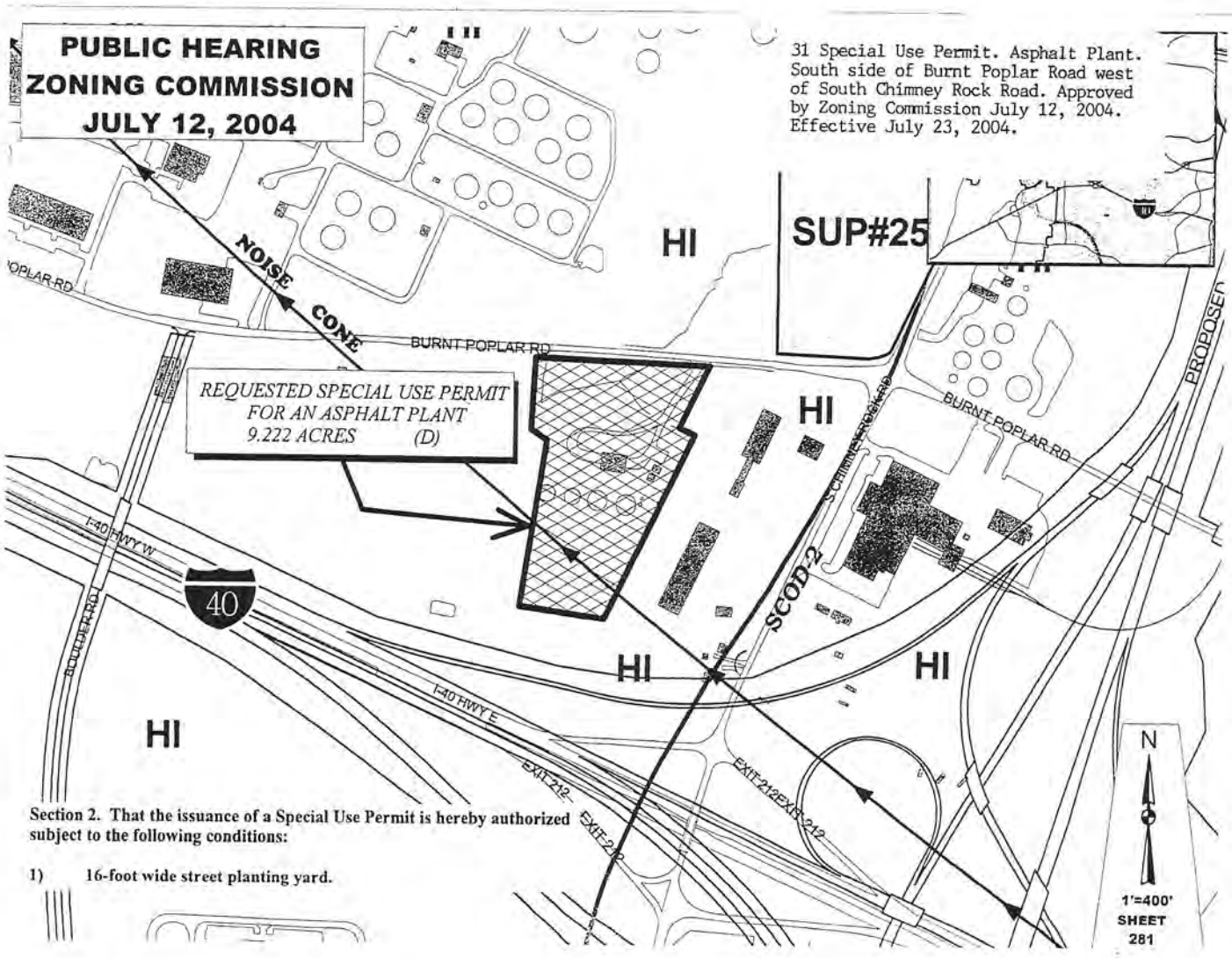
Dave Tomlinson stated that he owns property at 1710 Harding Street, and he plans to put single family on this property. He has also purchased some other lots on Temple Street that he plans to build himself a home to get away from apartments. This area is a mixed neighborhood and the residents do not want apartments in this area as it brings undesirable residents to the area. He is strongly opposed to this request.

Cynthia Logan, 2001 Old Jones Road, stated that she lives beside Summertree Apartments and there have been many problems created by these apartments being in a single family neighborhood. Their quality of life changed drastically once the apartments came to this area. There is no barrier or buffer between the single family and multifamily. She has no privacy, there are domestic violence issues, drug deals, loud music, trash in her yard that is being pitched over her fence, children without supervision jumping over the fence and stealing vegetables from her garden, dogs running loose, and a lot of other issues.



Section 2. That the issuance of a Special Use Permit is hereby authorized subject to the following conditions:

1) Access will be shared with adjacent property to the east.
2) Maximum building size will be 7,000 square feet.
3) There will be an on-site facility for watershed compliance.



Section 2. That the issuance of a Special Use Permit is hereby authorized subject to the following conditions:

1) 16-foot wide street planting yard.


BURNT POPLAR RD
BOULDER RD
S CHIMNEY ROCK RD
HI
EXIT 212
I-73 S
I-40 W
I-73 N
EXIT 1
EXIT 24A
Scenic Corridor Overlay District 2

Attachment E

Operation Plan

Permit to Construct Application
WI Burnt Poplar Transfer, LLC
NC Solid Waste Permit No. 41-22T

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APPROVED
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION
Date 04/21/2014 By Patricia N. Backus
DIN 20789
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Permit 4122T-TRANSFER-2012 Permit DIN 20774

OPERATIONS MANUAL

WI Burnt Poplar Transfer, LLC
Greensboro, North Carolina
NC Solid Waste Permit No. 41-22T

Prepared for:

Waste Industries USA, Inc.
Raleigh, North Carolina

December 2013
Revised March 2014
Revised April 2014

Prepared by:

SMITH+GARDNER
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

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Operations Plan

WI Burnt Poplar Transfer, LLC
Greensboro, North Carolina

Prepared For:

Waste Industries USA, Inc.
Raleigh, North Carolina

S+G Project No. Burnt 12-1

04/16/14

Jeryl W. Covington, P.E.
Project Manager

NORTH CAROLINA PROFESSIONAL SEAL 023002 ENGINEER STACEY A. SMITH 4.16.14

Stacey A. Smith, P.E.
Senior Engineer

December 2013
Revised March 2014, April 2014

SMITH+GARDNER
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

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WI Burnt Poplar Transfer, LLC
Greensboro, North Carolina

Operations Manual

Table of Contents

Page

FIGURES

TABLES

APPENDICES

1.0 GENERAL FACILITY OPERATIONS

1.1 OVERVIEW

This Operations Manual was prepared for the operations of the WI Burnt Poplar Transfer, LLC facility (Permit No. 41-22T) located a 6313 Burnt Poplar Road in Greensboro, North Carolina as shown in **Figure 1**. This document discusses the operation of the transfer station and other solid waste management activities as follows:

- Mixed Waste (MSW/C&D) Transfer Station; and
- Scales and Scale House.

Refer to **Figure 2** for the general layout of the facility.

The information contained herein was prepared to provide personnel with an understanding of how the Design Engineer envisioned that the completed facility would be operated. While deviations from the operations outlined here may be acceptable, they should be reviewed and approved by the Design Engineer. Please refer to the appropriate permit application for a detailed discussion and calculations for the individual components of the operation and process unit.

All personnel involved with the management or supervision of the facility shall review the documents and update from time to time as needed. A copy of this Operations Manual will be kept 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 WI Burnt Poplar Transfer, LLC facility should be directed to the appropriate company and regulatory personnel listed below. For fire or police emergencies, dial **911**.

1.2.1 WI Burnt Poplar Transfer, LLC (Owner)

WI Burnt Poplar Transfer, LLC.
6313 Burnt Poplar Road
Greensboro, North Carolina 27409
Phone: (336) 668-3712

Contact: Roger Marcum
Email: roger.marcum@wasteindustries.com

1.2.2 Waste Industries USA, Inc.

Address:	3301 Benson Drive, Suite 600 Raleigh, North Carolina 27609
Region Manager:	Brent Kirchhoff
Email:	brent.kirchhoff@wasteindustries.com
Phone:	(919) 877-2228

1.2.3 North Carolina Department of Environment and Natural Resources

North Carolina DENR - Raleigh Central Office (RCO)
217 West Jones Street
Raleigh, North Carolina 27603
Phone: (919) 707-8200

North Carolina DENR – Winston Salem Regional Office (WSRO)
585 Waughtown Street
Winston Salem, North Carolina 27107
Phone: (336) 771-5000

Division of Waste Management (DWM) – Solid Waste Section:

Permitting Branch Head:	Ed Mussler, P.E. (RCO)
Email:	ed.mussler@ncdenr.gov
Field Operations Branch Head:	Mark Poindexter (RCO)
Email:	mark.poindexter@ncdenr.gov
Western District Supervisor	Jason Watkins (WSRO)
Email:	jason.watkins@ncdenr.gov
Environmental Senior Specialist	Hugh Jernigan (WSRO)
Email:	hugh.jernigan@ncdenr.gov

Division of Energy, Mineral and Land Resources- Land Quality Section

Address:	North Carolina DENR – Winston-Salem Regional Office (WSRO) 585 Waughtown Street Winston-Salem, North Carolina 27107
Phone:	(336) 771-5000
Regional Engineer:	Matthew Gantt, P.E. (WSRO)
Email:	matthew.gantt@ncdenr.gov
Environmental Engineer I:	Shannon Leonard (WSRO)
Email:	Shannon.leonard@ncdenr.gov

1.3 FACILITY OPERATIONS

1.3.1 Facility Operating Hours

Normal hours of operation are 6:00 A.M. to 6:00 P.M. Monday through Saturday. The facility will be closed on Sunday and on holidays as designated by the Operator. The Operator may elect to modify these hours from time to time.

1.3.2 Operating Capacity

The WI Burnt Poplar Transfer, LLC facility will accept MSW and C&D at a rate of 400 tons per day.

1.3.3 Service Area

The WI Burnt Poplar Transfer, LLC facility is permitted to receive MSW and C&D materials generated within Guilford, Davidson, Forsyth, and Randolph counties as shown in **Figure 3**. The facility is not permitted to receive solid waste from sources that cannot be documented within the service area.

1.3.4 Personnel Requirements

At least one member of the supervisory staff will be certified as a Transfer Station Operations Specialist by the Solid Waste Association of North America (SWANA). Each transfer station employee will go through an annual training course (led by supervisory staff). As part of this training, personnel will learn to recognize loads which may contain prohibited wastes.

The anticipated personnel requirements for operation and maintenance of the site are listed in the following table. The number of site personnel can be adjusted based upon volume of waste received for recovery and transfer.

Table 1: Personnel Requirements

Description	Primary Function (Allocation)
1) Site Manager (1)	Overall management of the facility
2) Scale house Attendant (1)	Receiving and weight for incoming loads
3) Operators (3)	Management of tipping floor, equipment operations, and general facility operations.
4) Commercial Drivers (4-6)	Transfer of C&D and MSW waste.
4) Labor (as needed)	General labor.

1.3.5 Equipment Requirements

The Owner will maintain on-site equipment required to perform the necessary transfer and recycling activities. Periodic maintenance of all equipment and minor repair work will be performed at designed maintenance zones.

The anticipated equipment requirements for operation and maintenance of the facility are listed in the following table. These may vary based on the volume coming into the facility for recovery and transfer.

Table 2: Equipment Requirements

Description	Primary Function (Allocation)
1) Front End Loader (1)	Loading, site cleanup, and transfer operations.
2) Skid Steer Loader (1)	Loading, site cleanup and transfer operations
3) Transfer Trucks (4-6)*	Collection and transfer of C&D and MSW waste.
4) Other Equipment	As needed.

* Number of vehicles based on actual volume of waste received.

1.4 ACCESS CONTROL

Limiting access to the solid waste management facility is important for the following reasons:

- Unauthorized and illegal dumping of waste materials is prevented.
- Trespassing, and injury resulting therefrom, is discouraged.
- The risk of vandalism is greatly reduced.

Access to active areas of the transfer station will be controlled by a combination of fences and natural barriers, and strictly enforces 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 on Burnt Poplar Road as shown on **Figure 2**. Scales and scale house and offices are provided near the entrance. All waste will have been weighed prior to being processed on site. The entrance will have a gate which will be securely locked during non-operating hours.

1.4.2 Security

The WI Burnt Poplar Transfer, LLC facility is secured by fencing, locked gates, and natural buffers. Frequent inspections of the gates and fences will be performed by the facility personnel. Evidence of trespassing, vandalism, or illegal operation will be reported to the Owner in order to coordinate the repair or replacement of the damaged property and to ensure the integrity of the facility's security.

1.5 SIGNAGE

A prominent sign(s) containing information required by the DWM will be placed at the main facility entrance. This sign(s) will provide information on the operating hours, operating procedures, and acceptable wastes. Additional signage will be provided as necessary within the facility to distinctly distinguish the roadway to the transfer station tipping floor and trailer loading area. 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.

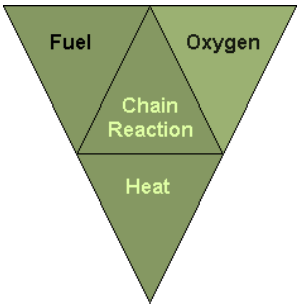
1.6 COMMUNICATIONS

The scale house/office has telephones in case of emergency and for the conduct of day-to-day business. Emergency telephone numbers are displayed in the scale house office.

1.7 FIRE CONTROL

Although no open burning of waste is allowed at the facility, the possibility of fire within the processing and storage areas, or with a piece of equipment must be anticipated in the daily operation of the facility. The operator will provide fire suppression equipment to control accidental fires and arrangements will be made with the local fire protection agency. The transfer station facility will be equipped with hose bibs or portable fire extinguishers located on each wall of the facility. 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 and more serious outbreaks, the local fire department will respond.

1.7.1 Fire Tetrahedron[1]



To better understand the properties of fire we can examine the fundamental methods to extinguish it. The fire "tetrahedron" illustrates the rule that in order to ignite and burn, each component

1 National Fire Protection Association (www.nfpa.org)

represents a property of flaming fire; fuel, oxygen, heat, and chemical chain reaction. A fire is prevented or extinguished by "removing" any one of them. A fire naturally occurs when the elements are combined in the right mixture (e.g., more heat needed for igniting some fuels, unless there is concentrated oxygen). The fire tetrahedron is a more modern adaptation of the traditional fire "triangle" recognizing the chemical reactions that may occur as a component – "the uninhibited chain reaction". This chain reaction is the feedback of heat to the fuel to produce the gaseous fuel used in the flame. In other words, the chain reaction provides the heat necessary to maintain the fire. These principles are integral in the prevention and management of potential fire situations. *Please note this information is considered as a basis of understanding and may be superseded by the direction and skill of the local Fire Marshall*.

1.7.2 Equipment

A combination of factory installed fire suppression systems and/or portable fire extinguishers will be operational on all pieces of heavy equipment at all times. Potential fire hazards are created from the build-up of fine, dry dust particles on and around operational motors and control panels. The presence of these build-ups can cause overheating and potential fire if periodic equipment cleaning and maintenance are not practiced. Portable fire extinguishers should be maintained in a state of readiness on each piece of moving equipment and equipment should be cleaned periodically.

1.7.3 General Fire Management Strategies

Each fire situation is site specific; however, general strategies for active fire management include the following (in no particular order):

- Accelerated high temperature combustion (displacing fuel);
- Covering of the burn area with foams (reduce oxygen);
- Flooding the burn area with water (reduce heat);
- Injecting an inert gas such as CO_2 (reduce oxygen); and
- Applying extinguishing agents that will interfere with and inhibit the combustion process at the molecular level (breaking the chemical reaction).

1.7.4 Notification

The Owner will verbally notify the DWM (see **Section 1.2.3**) within 24 hours of discovery of a fire. In addition, 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 15 days following any such occurrence on the **Fire Occurrence Notification Form** included in **Appendix A.**

1.7.5 Coordination With Local Fire Department

A copy of this Operations Manual will be filed with the local fire department including all contact information for the facility.

1.8 LITTER CONTROL

The vegetative trees/bushes act as a barrier to keep litter contained within the site boundaries. Staff and operators pick up litter in and around the site on a daily basis and respond to weather and heavy wind conditions that may compromise the appearance of the property. A litter control fence is placed around the operations area to help prevent blowing waste from leaving the operations area. The litter control crew picks up litter outside the site and on access roads each weekday.

Customers are encouraged to contain and cover all waste within their vehicles/trailers prior to entering the facility in an effort to reduce litter. Any load that is not secured in a manner that would prevent material from leaving the vehicle while it is in motion is subject to an additional fee. Trailers are encouraged to be covered by heavy tarp lids to minimize litter and reduce the potential for the entrance of vectors into the disposal operations.

1.9 SEVERE WEATHER CONDITIONS

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

1.9.1 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. The determination to discontinue activities due to inclement weather conditions will be made by the Transfer Station Manager.

1.9.2 Heavy Rains

Exposed soil surfaces can create a muddy situation in some portions of the facility during rainy periods. The control of drainage and use of crushed stone on unpaved roads should provide all-weather access for the site and promote drainage away from critical areas. In areas where the aggregate surface is washed away or otherwise damaged, new aggregate should be used for repair.

1.9.3 Electrical Storms

The open areas of the facility are susceptible to the hazards of an electrical storm. If necessary, activities will be temporary suspended during such an event. Refuge will be taken in the on-site building or in rubber tired vehicles.

1.9.4 Windy Conditions

Facility operations during a particular windy period may require that the active tipping area be temporarily shifted to account for the windy conditions.

1.9.5 Violent Storms

In the event of hurricane, tornado, or severe winter storm warning issued by the National Weather Service, facility operations may be temporarily suspended until the warning is lifted. Buildings and equipment will be properly secured. A radio capable of tuning to NOAA Weather Radio-Providence will be periodically monitored by site personnel.

1.10 HEALTH AND SAFETY

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

Safety equipment provided includes equipment rollover protection cabs, seat belts, audible reverse warning devices, hard hats, safety shoes, and first aid kits. Facility personnel will be encouraged to complete the American Red Cross Basic First Aid Course. Other safety requirements as designated by the Owner will also be implemented.

Facility employees will be routinely trained in health and safety by supervisory staff. All training will be documented. The following are some general recommendations for the health and safety of workers at the WI Burnt Poplar Transfer, LLC facility.

1.10.1 Personal Hygiene

The following items are recommended as a minimum of practice:

- Wash hands before eating drinking, or smoking.
- Wear personal protective equipment as described in **Section 1.10.2.**

- Wash, disinfect, and bandage ANY cut, no matter how small it is. Any breaks in the skin can become a source of infection.
- Keep fingernails closely trimmed and clean (dirty nails can harbor pathogens).

1.10.2 Personal Protection Equipment

Personal Protection Equipment (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 the PPE typically used and/or required in a solid waste management facility workplace.

- Safety shoes with steel toes.
- Noise reduction protection should be used in areas where extended exposure to continuous high decibels levels is expected.
- Disposable rubber latex or chemical resistant gloves for handling and/or sampling of waste materials.
- Dust filter masks.
- Hard hats (in designated areas).
- Portable eyewash.
- Safety goggles.
- Safety vests.

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

1.10.3 Mechanical Equipment Hazard Prevention

All equipment should be operated with care and caution. All safety equipment such as horns, backup alarms, and lights should be functional. A Lockout-Tagout program will be used to identify equipment in need or under repair and insure that operation is "off-limits" prior to maintenance or repair. All operators will be trained in the proper operation of equipment.

1.10.4 Employee Health and Safety

Some general safety rules are:

- Consider safety first when planning and conducting activities.
- Review the equipment O&M manual(s) prior to attempting repairs/changes.
- Remember the buddy system for repair of mechanical equipment

- Post emergency contact phone numbers.
- Provide easy and visible access to the Right to Know materials.
- Provide easy and visible access to the first aid kits and fire extinguishers.

1.10.5 Physical Exposure

Facility personnel may come in contact with the fluids, solids, and airborne constituents found at the transfer station. Routine training should be conducted regarding individual and collective materials and their associated hazards. Training concerning safe workplace practices around these potential exposures should instruct employees on the proper use of equipment and proper disposal procedures.

1.10.6 Safety Data Sheets

Safety Data Sheets (SDS) will be collected on every waste (if available) that enters the facility. Information will also be made available for all chemicals stored on site for use by the facility. SDS sheets will be stored in a location with all other Right to Know information for the site.

1.11 UTILITIES

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

1.12 RECORD KEEPING PROGRAM

The WI Burnt Poplar Transfer, LLC facility will maintain the following records in the operation record at the scale house:

A. Current permit(s) (Permit to Construct, Permit to Operate, etc.);
B. Current operations manual/plan(s) and engineering plan;
C. Inspection reports;
D. Audit and compliance records;
E. Annual facility reports;
F. Waste inspection records (see Section 2.4);
G. Daily tonnage records – including source of generation, scale certifications,
H. Waste determination records;
I. List of generators and haulers that have attempted to dispose of restricted wastes;
J. Employee training procedures and records of training completed;

K. Cost estimates or financial assurance documentation;
L. OSHA 300 logs; and
M. Screening logs.

The operating records will be kept up to date by the Owner or his designee. It will be presented upon request to the DWM for inspection. A copy of this Operations Manual will be kept at the facility and will be available for use at all times.

2.0 WASTE HANDLING OPERATIONS

2.1 OVERVIEW

This section describes the required was handling operations for the WI Burnt Poplar Transfer, LLC facility. The transfer station floor is divided to segregate and process MSW and C&D waste separately. In addition to the MSW and C&D waste, the facility also processes recyclable, (such as new construction waste such as lumber ferrous and non-ferrous metals, etc.). These materials are stored at the facility until there are sufficient quantities for pick up by various recycling contractors.

2.2 ACCEPTABLE WASTES

The WI Burnt Poplar Transfer, LLC facility will only accept waste that is generated from the approved service area and consistent with the North Carolina solid waste regulations and the general conditions established in the operating permit. The acceptance of waste materials must satisfy the following definitions: The acceptance of materials is summarized in **Table 3** below for each designated areas shown in **Figure 2**.

Table 3. Acceptable Waste Summary

Waste Type	MSW	C&D	Recycling
Municipal Solid Waste	✓	Prohibited	
Construction & Demolition Debris	✓	✓	
New Construction Debris	✓	✓	✓
Inert Debris	✓	✓	✓
Land Clearing Debris		✓	
Asphalt	✓	✓	✓
Cardboard, Newsprint, Paper, Magazines			✓
Glass, Plastic			✓
CCA/Creosote Treated woods	✓	Not accepted if separate from C&D waste	
Metals, Steel, Aluminum (cans included)	**Aluminum Cans Prohibited**		✓
Pallets, Tires, White Goods	Not Accepted		✓
Used Oil/Motor Vehicle Oil Filters			
Lead Acid Batteries			
Yard Waste, Oyster Shells			
Computer equipment and TVs			
Antifreeze (ethylene glycol)			
Certain Recyclable Rigid plastic containers			
Containers (w/liquids)			
Asbestos			

Table 3. Acceptable Waste Summary (continued)

Waste Type	MSW	C&D	Recycling
Medical	Not Accepted		
Wastewater Treatment/Domestic Sludge	Not Accepted	**Prohibited, unless approved by DWM**	
Hazardous Waste, Radioactive Waste	Prohibited		
Polychlorinated biphenyls (PCB) wastes			
Bulk or non-containerized liquid wastes			
Lamps or bulbs, ballasts or fixtures		Not accepted if separate from C&D waste	
Thermostats and light switches			
Lead pipes, lead roof flashing			
Transformers / Capacitors			

2.3 WASTE DEFINITIONS

The following definitions are associated with the waste acceptance outlined in Section 2.2 (above):

- Municipal solid waste as defined by the North Carolina General Statutes 130A-290(a)(18a) means any solid waste resulting from the operation of residential, commercial, industrial, governmental, or institutional establishments that would normally be collected, processed, and disposed of through a public or private solid waste management service. Municipal solid waste does not include hazardous waste, sludge, industrial waste managed in a solid waste management facility owned and operated by the generator of the industrial waste for management of that waste, or solid waste from mining or agricultural operations.
- Solid waste as defined by the North Carolina General Statutes 130A-290(a)(35) means any hazardous or nonhazardous garbage, refuse or sludge from a waste treatment plant, water supply treatment plant or air pollution control facility, domestic sewage and sludges generated by the treatment thereof in sanitary sewage collection, treatment and disposal systems, and other material that is either discarded or is being accumulated, stored or treated prior to being discarded, or has served its original intended use and is generally discarded, including solid, liquid, semisolid or contained gaseous material resulting from industrial, institutional, commercial and agricultural operations, and from community activities.
- Construction and Demolition Debris Waste: as defined in G.S. 130A-290 (a)(4) means solid waste resulting solely from construction, remodeling, repair or demolition operations on pavement, buildings, or other structures, but does not include inert debris, land-clearing debris or yard waste.

- Inert Debris Waste: as defined in G.S. 130A-290 (a)(14) means solid waste that consists solely of materials such as concrete, brick, concrete block, uncontaminated soil, rock, and gravel.
- Land Clearing and Inert Debris Waste: as defined in G.S. 130A-290 (a)(15) means solid waste that is generated solely from land-clearing activities, such as stumps and tree trunks.
- Asphalt: in accordance with NCGS 130A-294(m).
- Other Wastes as Approved by the Solid Waste Section of the Division of Waste Management.
- Hazardous waste as defined by NC General Statute 130A-290 (a) (8), including hazardous waste from conditionally exempt small quantity generators.
- Polychlorinated biphenyls (PCB) wastes as defined in 40 CFR 761 with the exception of trace amounts found in materials such as consumer electronics.
- Bulk or non-containerized liquid wastes unless the waste is household waste other than septic waste, waste oil, or the waste is a leachate or gas condensate derived from the MSW landfill unit. A liquid determination will be performed by the paint filter test (see **Appendix B** for apparatus and procedures).
- Containers holding liquid wastes unless the waste is household waste.
- Wastewater treatment sludge. Wastewater treatment sludge may be accepted, with the approval of the DWM, for utilization as a soil conditioner and incorporated into or applied onto the vegetative soil layer component of the final cover system. In this case, the sludge will be applied at no greater than agronomic rates and to a maximum depth of six inches.
- Containers such as tubes, drums, barrels, tanks, cans, and bottles unless they are empty and perforated to ensure that no liquid, hazardous, or municipal solid waste is contained therein;
- Garbage as defined in G.S. 130A-290(a)(7);
- Hazardous waste as defined in G.S. 130A-290(a)(8), to also include hazardous waste from conditionally exempt small quantity generators;
- Industrial solid waste unless a demonstration has been made and approved by the DWM that the landfill meets the requirements of Rule .0503(2)(d)(ii)(A);
- Medical waste as defined in G.S. 130A-290(a)(18);
- Municipal solid waste as defined in G.S. 130A-290(a)(18a);
- Polychlorinated biphenyls (PCB) wastes as defined in 40 CFR 761;
- Radioactive waste as defined in G.S. 104E-5(14);
- Septage as defined in G.S. 130A-290(a)(32);
- Sludge as defined in G.S. 130A-290(a)(34);
- Special wastes as defined in G.S. 130A-290(a)(40);
- White goods as defined in G.S. 130A-290(a)(44); and
- Yard trash as defined in G.S. 130A-290(a)(45).

2.4 WASTE SCREENING PROGRAMS

To assure prohibited wastes are not entering the facility, screening programs have been implemented. Waste received at the scale house entrance and waste taken to the tipping area or the storage container area is inspected by trained personnel. These individuals have been trained to spot 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. Screening programs for visual and olfactory characteristics of prohibited wastes are an ongoing part of the facility operation.

2.4.1 Waste Receiving and Inspection

All vehicles must stop at the scale house located near the entrance of the facility and visitors are required to sign-in. All waste transportation vehicles are weighed and the content of the load assessed. The scale attendant(s) requests from the driver of the vehicle a description of the waste it is carrying to ensure that unacceptable waste is not allowed into the facility. The attendant(s) 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 or in the vicinity of the entrance to the site. Once passing the scales, the vehicles are routed to the appropriate tipping floor or recovery area.

Vehicles are randomly selected for screening on a regular basis, depending on personnel availability. Site personnel will ensure that each waste stream received at the site is equitably inspected. At least one vehicle per week, but not less than 1% by weight of the waste stream entering the facility (based on the previous week's total), will be randomly selected by inspection personnel. However, if something looks suspicious is spotted in any waste load, the load is inspected further. Selected vehicles are directed to an area of the tipping floor where the vehicle is unloaded. Waste is carefully spread using suitable equipment. An attendant trained to identify wastes that are unacceptable for processing inspects the waste discharged at the screening area. If unacceptable waste is found, the load will be isolated, reloaded, and the generator/hauler will be logged and escorted out of the facility.

For unacceptable wastes that are non-hazardous, the Owner will notify the DWM (see Section 1.2.3) within 24-hours of attempted disposal of any waste the facility is not permitted to receive to determine the proper course of action. Within 15-days following the incident, the facility will submit written notification to DWM. The hauler is responsible for removing unacceptable waste from the facility's property.

For unacceptable wastes that are hazardous, the Hazardous Waste Contingency Plan outlined in Section 2.4.2 will be followed. To determine the liquid content

of the waste, a liquid determination will be performed by the paint filter test (see **Appendix C** for apparatus and procedures). The hauler is responsible for removing unacceptable waste from the facility's property. If no unacceptable waste is found, the load will be processed for recoverable items. All random waste inspections will be documented by facility staff using the waste screening form provided in **Appendix B.**

If no unacceptable waste is found, the load will be incorporated with the waste on the tipping floor. All random waste inspections will be documented by staff using the waste screening form provided in **Appendix B**.

2.4.2 Hazardous Waste Contingency Plan

In the event that identifiable hazardous waste or waste of questionable character is detected at the facility, appropriate equipment, protective equipment, personnel, and materials as necessary will be employed to isolate the wastes. DWM will be notified immediately (see **Section 1.2.3**) that an attempt was made to dispose of hazardous waste at the facility. If the vehicle attempting disposal of such waste is known, all attempts will be made to prevent that vehicle from leaving the site or, if the vehicle has left the site, immediate notice will be served on the vehicle owner that hazardous waste, for which they have responsibility, has been delivered to the facility.

The facility will assist DWM as necessary and appropriate in the removal and disposition of the hazardous waste and in the prosecution of responsible parties. If needed, the hazardous waste will be covered with tarp material until such time when an appropriate method can be implemented to properly handle the waste. The cost of the removal and disposing of the hazardous waste will be charged to the owner of the vehicle involved. Any vehicle owner or operator who knowingly delivers hazardous waste to the facility may be barred from using the facility. Should an incident where hazardous waste is found at the facility occur, the event will be documented by staff using the waste screening form provided in **Appendix B.**

Records of information gathered as part of the waste screening programs will be maintained at the site during its active life and as long as required by WI Burnt Poplar Transfer, LLC and DWM.

2.5 FACILITY OPERATIONS

2.5.1 Operating Capacity

The WI Burnt Poplar Transfer, LLC facility may maintain at any one time a maximum onsite storage volume of recycled materials of approximately 300 cubic yards, or the volume of three (3) 45-foot trailer loads.

Waste may be stored onsite in leak-resistant transfer trailers with watertight covers, a maximum of 24-hours except that a minimal amount of waste may be stored for a maximum of 48 hours when the facility is closed during a weekend and a maximum of 72 hours when closed for a weekend holiday.

2.5.2 Disposal Facility

The anticipated disposal facilities for the transfer station (subject to change) include any facility in the State of North Carolina or the Commonwealth of Virginia that holds a solid waste permit for the specific waste disposed. However, it is generally anticipated for disposal at the following facilities:

- WI High Point Landfill, LLC (NC Permit Number 41-16), C&D waste;
- Hanes Mill Road Landfill (NC Permit Number 34-02), MSW and C&D waste;
- Upper Piedmont Regional Landfill (NC Permit Number 73-04), MSW and C&D waste;
- Uwharrie Environmental Regional Landfill (NC Permit Number 62-04), MSW and C&D waste; and
- Chamber Development MSW Landfill (Anson County Landfill) (NC Permit Number 04-03), MSW waste.

WI Burnt Poplar Transfer, LLC will notify DWM (see **Section 1.2.3**) prior to using a landfill other than those listed above.

2.5.3 Access

Traffic will be clearly directed to the appropriate tipping floor or recovery area. The traffic speed on the site should be less than 10 MPH. Rutting of gravel roadway surfaces must be repaired by the placement of additional gravel on the roadway and not solely by grading the rut. This will maintain the separator geotextile placed below most gravel roadway surfaces.

2.5.4 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. The transfer station floor is divided to segregate and process MSW and C&D waste separately.

Facility operations are anticipated as follows:

1. Collection vehicles delivering waste to the facility will enter through the main entrance;
2. Pass by and over the scales and scale house for weight;

3. Continue along the access road until reaching the transfer station tipping area(s).
4. The tipping area has "push" walls running along the interior of the building that direct the waste to feed "hoppers"overlying the transfer trailers and/or equipment on the lower level of the building. The building is divided into two separate tipping areas, one for MSW and one for C&D. The attendant will direct vehicles, waiting to unload, to back into the facility through the entrance. Adequate area is available in front of the transfer area for drivers to queue their vehicles into a backing maneuver. Station operating personnel will be on the station floor to direct and guide the vehicles.
5. The vehicles will back onto the tipping floor to an area designated by the attendant. MSW vehicles will be directed to one side of the floor, whereas C&D vehicles will be directed to the opposite portion of the building.
6. Once the vehicle is in position, the waste load will be discharged directly onto the tipping floor.
7. A spotter will inspect the discharged waste before it is mixed with other waste on the tipping floor and pushed by a rubber-tired loader into the open top transfer trailers, specifically designed for hauling MSW or C&D wastes, respectively, located in the lower level of the transfer station. All MSW waste will stay in the covered area of the transfer station.

2.5.5 Recycling and Recovery

As a means of capturing recyclable materials and/or waste screening, waste processing will be conducted on the tipping floor as follows:

1. The loader or laborers will separate materials to be recycled and/or processed from the loads before the waste is pushed into the open top transfer trailers. It is anticipated that most of the recyclables and materials to be separated will arrive at the transfer area as C&D waste.
2. Unprocessed C&D materials may stay on the floor of the building (not in containers) for no more than 48 hours or two (2) working days.
3. Recyclable Materials, as defined in **Table 3**, will be pulled from the MSW/C&D waste and loaded into roll-off containers.
4. Tires and white goods will be collected in roll-off containers and transported to appropriate processing facilities.
5. Concrete (cement and asphaltic/bituminous) may be delivered and stockpiled on site. The concrete waste 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.

2.5.6 Special Waste Management

2.5.6.1 Asbestos Management

The WI Burnt Poplar Transfer, LLC facility does not process any known or recognized asbestos containing materials. For unacceptable waste that is discovered, the Hazardous Waste Contingency Plan outlined in **Section 2.4.2** will be followed.

2.6 MARKETS

The final destination of the recyclable materials separated from the waste may vary depending on market prices for such materials.

2.7 RECORDKEEPING

The facility will maintain accurate records of daily waste and recovered material activities. Daily records will document the weight of waste received and recovered and the origins of the loads. Additionally, the operator will maintain monthly records of the amount of recovered materials sold and the amount of waste transported for disposal. Documentation of end-users/processors/recyclers of the recovered materials will be maintained on-site.

On or before August 1 annually, the operator will submit a facility report to the DWM and to each county from which waste was received. Minimally, the facility report will document the tons of waste received on a monthly basis, the origin of the waste, the type of waste received, the tons diverted, and the tons disposed.

3.0 ENVIRONMENTAL MANAGEMENT

3.1 OVERVIEW

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

3.2 SURFACE WATER RUNOFF CONTROL

Waste and recyclable materials will be unloaded within the covered areas of the transfer station building or directly into storage containers during periods of inclement weather. Waste will not be unloaded or stored in standing water.

The site will be maintained in a fashion to divert surface water away from the transferring and storage areas. Proper control of surface water at the transfer or recycling areas will accomplish the following goals:

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

3.3 LEACHATE MANAGEMENT

The leachate management system for the proposed MSW & C&D transfer station consists of concrete tipping floor, collection trenches and leachate transmission piping, pumps, a valve box, and value to maintain a direct connection to the City of Greensboro sewer system.

3.3.1 Leachate Collection

Leachate from each transfer area unit is collected in perimeter floor drains that drain to low end(s) of each area. Leachate collected drains by gravity flow to the wash water grit storage tank and is pumped by a prefabricated simplex wash water pump to the City of Greensboro sewer system.

3.3.2 Operation and Maintenance of Leachate Pump and Storage Tank

Operation and maintenance of leachate pumps and the grit storage tanks shall be in accordance with the appropriate manufacturer's recommendations. The Owner or his designee will be responsible for following and documenting, as required, these activities.

3.4 VECTOR CONTROL

The tipping floor and recovery areas will be maintained in a clean, orderly, and sanitary condition to effectively control vectors. The transfer areas will be cleaned and swept daily and washed down weekly, at a minimum. If vector control becomes a problem, additional measures will be taken to ensure the protection of human health.

3.5 ODOR CONTROL

3.5.1 MSW Materials

Odorous or potentially odorous MSW materials will be loaded into trailers as soon as possible to avoid odor problems.

3.5.2 C&D Materials

Due to the nature of the type of C&D waste materials reclaimed, transferred, and stored at this facility, odor is not expected to be of concern.

3.6 DUST CONTROL

Dust generated by the processing activities will be limited by misting the materials, as needed. The access roads to the tipping floor and the travel lanes from the trailer loading areas are paved which will minimize dust generation. A street sweeper will be used on paved areas to control dust, as needed.

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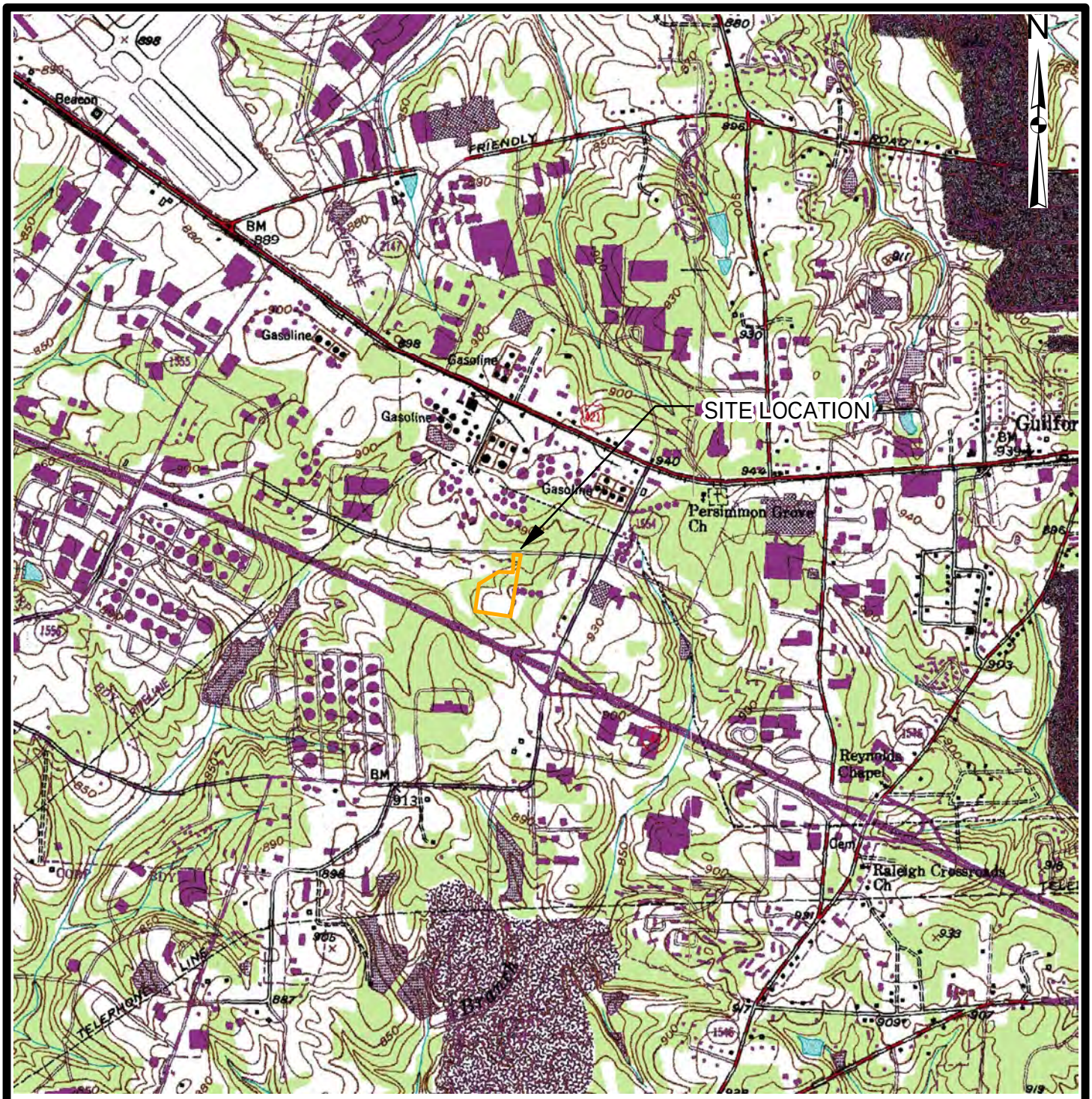

WI BURNT POPLAR TRANSFER, LLC
C&D / MSW TRANSFER STATION
GREENSBORO, NC
SITE LOCATION MAP

NC LIC. NO. C-0828 (ENGINEERING)
SMITH+GARDNER
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

DRAWN:	APPROVED:	SCALE:	DATE:	PROJECT NO.:	FIGURE NO.:
J.A.L.	J.W.C.	AS SHOWN	Nov. 2013	BURNT 12-1	1

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LEGEND

- PROPERTY BOUNDARY
- ADJACENT PROPERTY LINE
- EXISTING FENCE
- WATERSHED STREAM BUFFER (ZONE 2)
- WATERSHED STREAM BUFFER (ZONE 1)
- DITCH
- SS — EXISTING SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- EXISTING FIRE HYDRANT
- SD — EXISTING STORM DRAIN PIPE
- STORM MANHOLE
- GI — GRATE INLET
- E — EXISTING OVERHEAD ELECTRIC
- PP — POWER POLE
- LP — LIGHT POLE
- LAMP POST
- W — EXISTING WATER LINE
- WV — WATER VALVE
- WM — WATER METER

NOTES

1. EXISTING SITE FEATURES ARE LABELED IN ITALICS.

REFERENCES

1. EXISTING FEATURES SHOWN FROM DRAWING "ALTA/ASCM LAND TITLE SURVEY FOR WI BURNT POPLAR TRANSFER, LLC MOREHEAD TOWNSHIP, GUILFORD COUNTY", DATED 2/9/12, PREPARED BY CPT ENGINEERING AND SURVEYING INC, HIGH POINT, NORTH CAROLINA.

AGGREGATE MATERIAL STORAGE AREA (BRICK, BLOCK, CONCRETE)

3/4" HOSE BIBB FOR WASH WATER (TYP.) & BOLLARDS

EXISTING 15" RCP PRIVATE STORM SEWER

TRAILER STORAGE AREA (MSW, C&D, AND RECYCLABLE MATERIALS)

PAVED HANDICAP ACCESSIBLE ROUTE (TYP.)

ACCESSIBLE ASSEMBLY AREA WITH BOLLARDS (4)

MESH NET SCREENING

EDGE OF PAVEMENT

RETAINING WALL

ASPHALT PAVEMENT

JERSEY BARRIERS

C&D TIPPING FLOOR

MSW TIPPING FLOOR

PAVED DRIVE

EXISTING CONCRETE PAD

APPROXIMATE LOCATION OF ACCESSIBLE DOORWAY

EXISTING 2" PVC PRIVATE WATERLINE

PROPOSED BUILDING (DIMENSIONS: 100'x70')

DECK

TRAILER

SCALES

EXISTING WATER SPIGOT

EXISTING STORMWATER BASIN

N 81°47'24" W 502.73'

S 08°51'25" W 582.18'

S 10°29'36" W 267.88'

S 00°40'17" E 15.38'

N 00°54'50" E 244.53'

S 88°19'58" E 200.32'

N 07°50'38" E 380.11'

N 58°25'57" E 326.95'

PREPARED BY:
SMITH+GARDNER
NC LIC. NO. C-0828 [ENGINEERING]
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

PREPARED FOR:
WI BURNT POPLAR TRANSFER, LLC
C&D/MSW TRANSFER STATION
GUILFORD COUNTY, GREENSBORO, NC
SITE MAP

DRAWN:	APPROVED:	SCALE:	FIGURE NO.
J.A.L.	J.W.C.	AS SHOWN	2
DATE:	PROJECT NO:		FILENAME:
Feb 2014	BURNT 12-1		WI-D0900

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WI BURNT POPLAR TRANSFER, LLC
C&D / MSW TRANSFER STATION
GREENSBORO, NC
SERVICE AREA MAP

NC LIC. NO. C-0828 (ENGINEERING)
SMITH+GARDNER
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

DRAWN:	APPROVED:	SCALE:	DATE:	PROJECT NO.:	FIGURE NO.:
J.A.L.	J.W.C.	AS SHOWN	Nov. 2013	BURNT 12-1	3

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Appendix A

Fire Occurrence Notification Form

Operations Manual
WI Burnt Poplar Transfer, LLC
NC Solid Waste Permit 41-22T

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SOLID WASTE MANAGEMENT FACILITY
FIRE OCCURRENCE NOTIFICATION
NC DENR Division of Waste Management
Solid Waste Section

Notify the Section verbally within 24 hours and submit written notification within 15 days of the occurrence.
(If additional space is needed, use back of this form.)

NAME OF FACILITY: _____ PERMIT # _____

DATE AND TIME OF FIRE: _____ @ _____

HOW WAS THE FIRE REPORTED AND BY WHOM:

LIST ACTIONS TAKEN:

WHAT WAS THE CAUSE OF THE FIRE:

DESCRIBE AREA, TYPE, AND AMOUNT OF WASTE INVOLVED:

WHAT COULD HAVE BEEN DONE TO PREVENT THIS FIRE:

DESCRIBE PLAN OF ACTIONS TO PREVENT FUTURE INCIDENTS:

NAME: _____ TITLE: _____ DATE: _____

****

THIS SECTION TO BE COMPLETED BY SOLID WASTE SECTION REGIONAL STAFF

DATE RECEIVED _____

List any factors not listed that might have contributed to the fire or that might prevent occurrence of future fires:

FOLLOW-UP REQUIRED:

☐ NO ☐ PHONE CALL ☐ SUBMITTAL ☐ MEETING ☐ RETURN VISIT BY:_____ (DATE)

ACTIONS TAKEN OR REQUIRED:

Revised 6/8/09

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Appendix B

Waste Screening Form

Operations Manual
WI Burnt Poplar Transfer, LLC
NC Solid Waste Permit No. 41-22T

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WI Burnt Poplar Transfer, LLC
Greensboro, North Carolina
Permit No. 41-22T

WASTE SCREENING FORM

Day / Date: _____ Time Weighed in: _____
Truck Owner: _____ Driver Name: _____
Truck Type: _____ Vehicle ID / Tag No: _____
Weight: _____ Tare: _____
Waste Generator / Source: _____

Reason Load Inspected:
Random Inspection _____ Staff Initials _____
Detained at Scales _____ Staff Initials _____
Detained by Operating Staff _____ Staff Initials _____

Inspection Location: _____

Approved Waste Determination Form Present? Yes _____ No _____ N/A _____

Description of Load: _____

Load Accepted (signature) _____ Date _____
Load Not Accepted (signature) _____ Date _____

Reason Load Not Accepted (complete only if load not accepted)

Description of Suspicious Contents:
Color: _____ Hazardous Waste Markings: _____
Texture: _____
Drums Present: _____ Smell: _____
Est. Cubic Yards in Load: _____
Est. Tons in Load: _____

Guilford County Emergency Management Contacted? Yes _____ No _____

Company or Authority Contacted? _____
Hazardous Materials Present: _____

Hauler Notified (if waste not accepted) Phone: Time Contacted:
Other Observations: _____

Final Disposition
Signed: _____ Date _____
Waste Screening Inspector or Site Manager

Attach related correspondence to this form.
File completed form in Operating Record.

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Appendix C

Paint Filter Liquids Test
EPA Methods 9095

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METHOD 9095
PAINT FILTER LIQUIDS TEST
From EPA SW-846

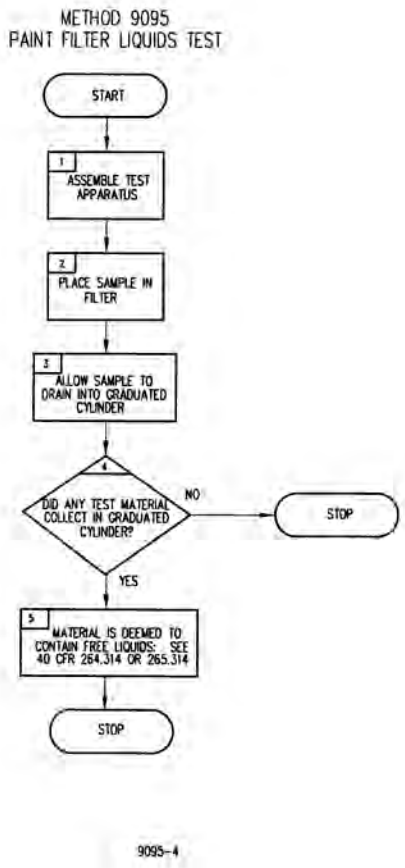
4.0 SCOPE AND APPLICATION

1.1 This method is used to determine the presence of free liquids in a representative sample of waste.

1.2 The method is used to determine compliance with 40 CFR 264.314 and 265.314.

5.0 SUMMARY OF METHOD

2.1 A predetermined amount of material is placed in a paint filter. If any portion of the material passes through and drops from the filter within the 5 minute test period, the material is deemed to contain free liquids.



6.0 INTERFERENCES

3.1 Filter media were observed to separate from the filter cone on exposure to alkaline materials. This development causes no problem if the sample is not disturbed.

7.0 APPARATUS AND MATERIALS

4.1 Conical paint filter: Mesh number 60 (fine meshed size). Available at local paint stores such as Sherwin-Williams and Glidden for an approximate cost of $0.07 each.

4.2 Glass funnel: If the paint filter, with the waste, cannot sustain its weight on the ring stand, then a fluted glass

funnel or glass funnel with a mouth large enough to allow at least 1 inch of the filter mesh to protrude should be used to support the filter. The funnel is to be fluted or have a large open mouth in order to support the paint filter yet not interfere with the movement, to the graduated cylinder, of the liquid that passes through the filter mesh.

4.3 Ring stand and ring or tripod.

4.4 Graduated cylinder or beaker: 100-mL.

8.0 REAGENTS

5.1 None.

9.0 SAMPLE COLLECTION, PRESERVATION, AND HANDLING

6.1 All samples must be collected according to the directions in Chapter Nine of EPA SW-846.

6.2 A 100 mL or 100 g representative sample is required for the test. If it is not possible to obtain a sample of 100 mL or 100 g that is sufficiently representative of the waste, the analyst may use larger size samples in multiples of 100 mL or 100 g, i.e., 200, 300, 400 mL or g. However, when larger samples are used, analysts shall divide the sample into 100-mL or 100-g portions and test each portion separately. If any portion contains free liquids, the entire sample is considered to have free liquids.

10.0 PROCEDURE

7.1 Assemble test apparatus as shown in Figure 1.

7.2 Place sample in the filter. A funnel may be used to provide support for the paint filter.

7.3 Allow sample to drain for 5 minutes into the graduated cylinder.

7.4 If any portion of the test material collects in the graduated cylinder in the 5-min. period, then the material is deemed to contain free liquids for purposes of 40 CFR 264.314 and 265.314.

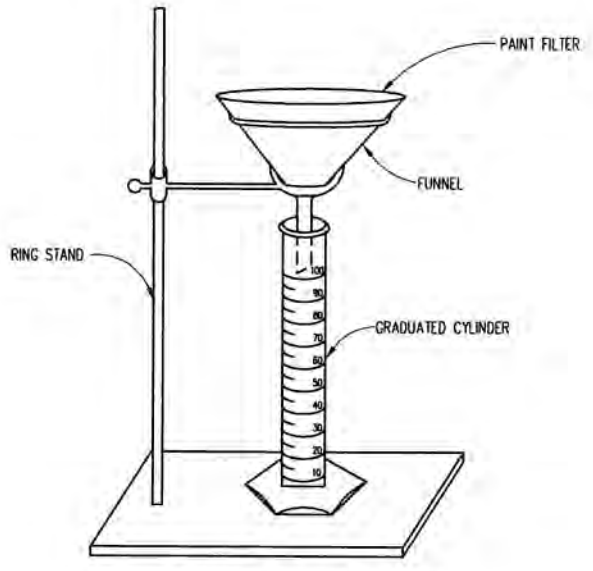


FIGURE 1. PAINT FILTER TEST APPARATUS.

11.0 QUALITY CONTROL

8.1 Duplicate samples should be analyzed on a routine basis.

12.0 METHOD PERFORMANCE

9.1 No data provided.

13.0 REFERENCES

10.1 None required.

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Attachment F

Financial Assurance

Permit to Construct Application
WI Burnt Poplar Transfer, LLC
NC Solid Waste Permit No. 41-22T

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SMITH+GARDNER

DATE: 18-Dec-13
BY: JWC

WI Burnt Poplat Transfer Station , LLC NC Solid Waste Permit No. 41-22T)
Engineer's Closure Construction Cost Estimate

Item No.	Item Description	Unit	Contractor Quantity	Contractor Unit Price	Contractor Total Price	Comments
	Facility Area (Horizontal Plan) ---->	**AC**	**6.8**			
1.0	**Pre-Remedial Response**			**Subtotal**	**$3,400.00**	
1.1	Coordination, Contracts, and Management	AC	7	$500.00	$3,400.00	
2.0	**Remedial Response Activities**				**$64,196.00**	
2.1	Surveys and Layout	AC	7	$250.00	$1,700.00	S+G Estimate
2.2	Mobilization, Demobilization, and Project Closeout	AC	7	$500.00	$3,400.00	S+G Estimate
2.3	Wash Down & Cleanup of the Recovery Area	DY	2	$1,500.00	$3,000.00	Assumes single work crew per day.
2.4	Fencing & Concrete Barrier Protection	LS	1	$5,000.00	$5,000.00	Assumes close process area and place concrete barriers across access road.
2.5	Excess Disposal	TN	800	$43.00	$34,400.00	Assumes waste volume for two (2) days at 400 tons/day of MSW and C&D. Loading, transport, and disposal at the City of High Point Landfill.
2.6	Excess Recycling & Processing Material	TN	72	$43.00	$3,096.00	Assumes maxmum storage volume of recyclables materials for three (3) trailers. Loading, transport, and disposal at City of High Point Landfill.
2.7	Erosion & Sediment Control (grading, silt fence, maintenance, etc.)	AC	7	$500.00	$3,400.00	S+G Estimate
2.8	Revegetation	AC	7	$1,500.00	$10,200.00	S+G Estimate
3.0	**Quality Assurance, Certification, & Deed Notation**				**$3,000.00**	
3.1	Engineering and Reporting	LS	1	$2,500.00	$2,500.00	S+G Estimate
3.2	Surveying and Deed Notation	LS	1	$500.00	$500.00	S+G Estimate
	Remedial Response Estimate ----->				**$70,596**	(2013$)
	10% Contingency ----->				**$7,060**	(2013$)
	Total Estimate ---->				**$77,656**	(2013$) (See Notes 1 & 2)

Notes:

1. All costs are presented in current dollars and should be increased at an inflation rate prescribed by the NCDENR Division of Waste Management per http://portal.ncdenr.org/web/wm/sw/financialassurance if additional review is not performed annually.
2. This ESTIMATE has been prepared for financial assurance purposes only and shall not be considered a replacement for an actual bid from a licensed contractor and is considered acceptable within a +/- 10% of the Total Estimate value.

Denotes values calculated in spreadsheet.

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Attachment G

Traffic Analysis

Permit to Construct Application
WI Burnt Poplar Transfer, LLC
NC Solid Waste Permit No. 41-22T

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To: Mike Mills – NCDOT Division 7 Engineer
Darrel Ferguson – NCDOT District 2 Engineer

Date: December 19, 2013

Project No.: 38188.00

From: Andrew Topp, PE, PTOE

Re: Burnt Poplar Transfer Station Traffic Analysis, Greensboro, NC

Introduction

A bill was passed in the North Carolina General Assembly that affects the permitting process for new or expanded solid waste facilities. This bill, Senate Bill 1492, contains a subsection (included in Appendix) that dictates the terms of a traffic study requirement. Waste Industries, Inc. is seeking to modify its current transfer station along Burnt Poplar Road (SR 1554) in Greensboro, which requires adherence to this law. Before commencing with the full development plans for the site and typical driveway permit process, Waste Industries, Inc., is seeking certification from NCDOT as is required by this new law, summarized below:

> *"obtaining a certification from the Division Engineer of the Department of Transportation that the proposed facility will not have a substantial impact on highway traffic."*

This memorandum provides an estimate of the traffic that will be generated by the proposed Burnt Poplar Transfer Station expansion planned along Burnt Poplar Road (SR 1554) in Greensboro, North Carolina. It also provides an estimate of the site's possible traffic impacts on highway traffic as is required to address the above requirements.

Project Background

The current site is located along the south side of Burnt Poplar Road, approximately 700 feet west of Chimney Rock Road (SR 2492), as shown in Figure 1 at the end of this memorandum. Figure 2 includes the site development general facilities plan for this site. It presently serves as a transfer station that accepts approximately 30 tons of construction debris (CD) daily. The owner seeks a permit that will allow them to accept municipal solid waste (MSW) as well. In addition, the permit limit will be increased to allow up to 400 tons debris per day with an expected January, 2015 opening date.

Traffic Generation

The *Institute of Transportation Engineers (ITE) Trip Generation Manual, 9th Edition* does not presently generate traffic for transfer stations. As a result, traffic was calculated based on the number and type of trucks used to deliver material to the site. Based on latest six months of data, the facility has had 11 trucks per day averaging about 2.8 tons/truck. CD debris will continue to arrive to the site with loads of this size. The MSW waste will arrive in larger trucks, however and will comprise the bulk of the additional tonnage. Although Waste Industries indicated that a range of garbage trucks may be used for this operation, each MSW truck carries approximately 10 tons on average and will arrive relatively evenly over the 9.5 hours of operation (7:00 A.M. to 4:30 P.M.). Since there may additional CD trucks as well, 6 tons per truck was assumed for future truck traffic arriving to the site. Another trip type is hauling the waste from the transfer station to the landfill, where maximum load tractor trailers are typically used. A tractor trailer carrying 24 tons on average is assumed to make this continuous movement throughout the day. The following calculations summarize our estimates for these two trip types.

VHB Engineering NC, P.C.
4000 WestChase Boulevard, Suite 530
Raleigh, North Carolina 27607
919.829.0328 ▪ FAX 919.829.0329
www.vhb.com

Hauling MSW to TS		Hauling MSW from TS to Landfill	
370	tons/day	370	tons/day
6	tons/truck	24	tons/truck
62	trucks/day (each way)	15	trucks/day (each way)
9.5	hrs/day	9.5	hrs/day
6.5	trucks/hour	1.6	trucks/hour
7	trucks/A.M. peak hour (each way)	2	trucks/A.M. peak hour (each way)
4	truck/P.M. peak hour (each way)	2	truck/P.M. peak hour (each way)

In addition to the truck trips, there may be a few other trip types. This estimate approximates a few trips to account for deliveries, trips associated with a new employee if one is added, or other miscellaneous trip types.

The following table summarizes the estimated daily and peak hour (between 7:00 to 9:00 A.M. and 4:00 to 6:00 P.M.) trips to be generated by this development. Note that since the site closes at 4:30 P.M., the average truck trips during the 4:00 – 6:00 P.M. period is reduced slightly relative to the A.M. peak.

Table 1: Transfer Station Trip Generation Estimate

Trip Types	Daily	A.M. Peak (7:00-9:00)			P.M. Peak (4:00-6:00)		
		Enter	Exit	Total	Enter	Exit	Total
Hauling material to transfer station	124	7	7	14	4	4	8
Hauling material to landfill	30	2	2	4	2	2	4
Other miscellaneous trips	30	3	3	6	3	3	6
Total	**184**	**12**	**12**	**24**	**9**	**9**	**18**

The transfer station is expected to increase its traffic generation by 24 trips during the A.M. peak hour and 18 trips during the PM peak hour.

Traffic Volume Estimates

Like typical Traffic Impact Analyses, this study analyzes operations today and compares it to the future conditions with and without the expansion in place. The site's current driveway along Burnt Poplar Road was analyzed as well as the adjacent signalized Burnt Poplar Road at Chimney Rock Road intersection located to the east of the site. New counts were conducted at these two locations in November, 2013. The Existing (2013) scenario lane configurations and peak hour volumes are illustrated in Figures 3 and 4. Future No-Build (2015) volumes were developed by applying a 3% uniform annual growth rate to the two intersections. Site trips were distributed based on the existing count volume distribution and expected arrival pattern to the site. These volumes were combined with the No-Build (2015) volumes to establish the Build (2015) scenario volumes. The site trips, distribution, and future volume figures are provided as Figures 5 through 8 at the end of this memorandum.

Traffic Impacts

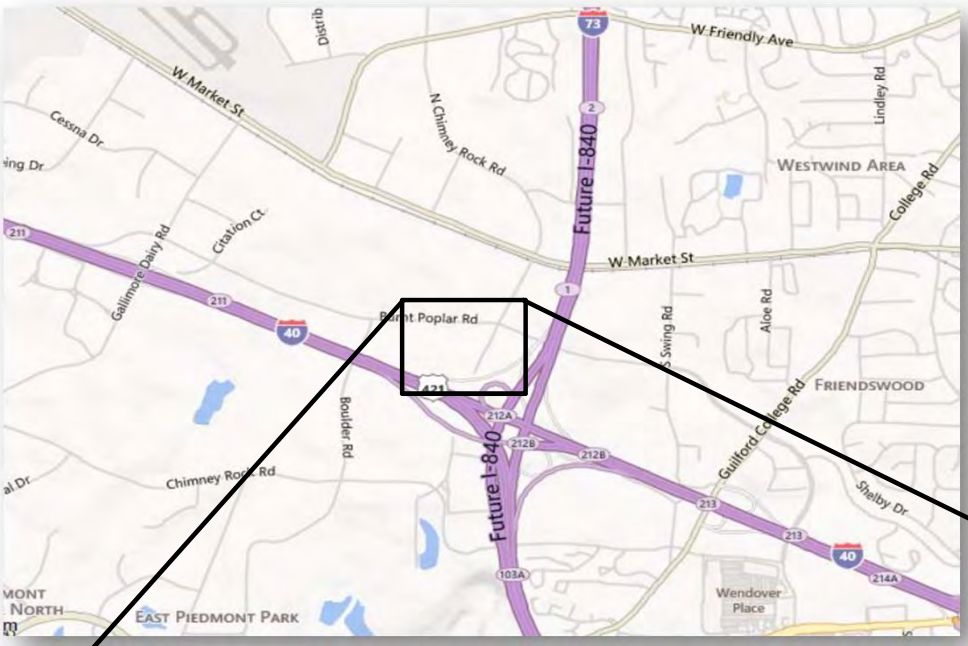
The traffic operation summary for this intersection under all scenarios is tabulated in Table 2 and the analysis results are included in the Appendix.

Table 2: Intersection Level of Service Summary

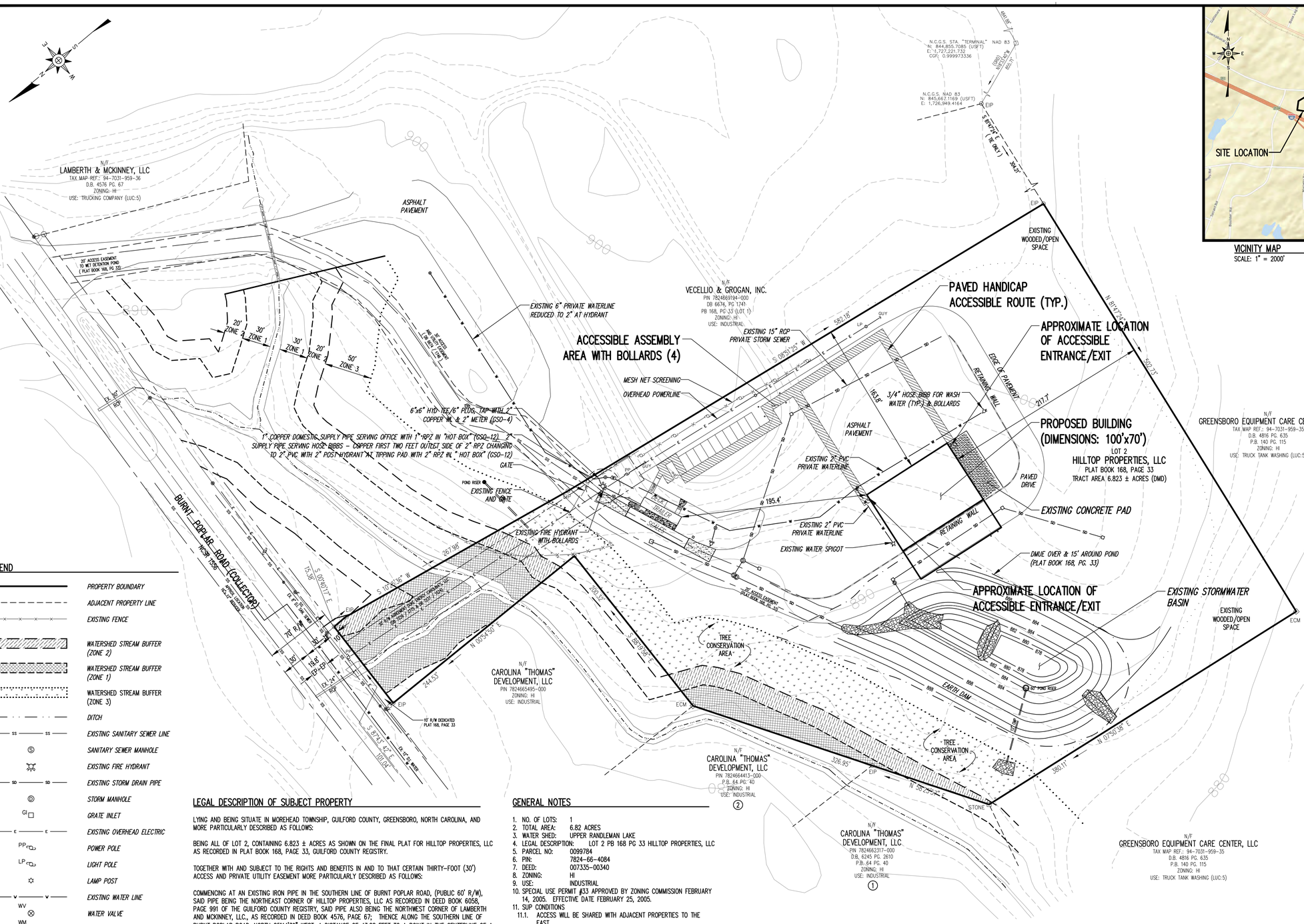
Intersection and Approach	Existing (2013)		No-Build (2015)		Build (2015)	
	AM	PM	AM	PM	AM	PM
Burnt Poplar Road (SR 1554) at Chimney Rock Road (SR 2492)	**A - 8.8 sec**	**A - 7.9 sec**	**A - 8.9 sec**	**A - 8.4 sec**	**A - 8.9 sec**	**A - 8.5 sec**
Eastbound	A - 8.3 sec	A - 7.5 sec	A - 8.5 sec	A - 7.9 sec	A - 8.6 sec	A - 8.0 sec
Westbound	A - 8.0 sec	A - 6.5 sec	A - 8.2 sec	A - 6.7 sec	A - 8.3 sec	A - 6.7 sec
Northbound	A - 7.8 sec	A - 9.6 sec	A - 7.7 sec	A - 9.8 sec	A - 7.8 sec	A - 10.0 sec
Southbound	A - 9.6 sec	A - 10.0 sec	A - 9.5 sec	A - 10.8 sec	A - 9.6 sec	A - 10.9 sec
Burnt Poplar Road (SR 1554) at Site Driveway	-	-	-	-	-	-
Northbound	B - 10.9 sec	B - 11.0 sec	B - 11.0 sec	B - 11.2 sec	B - 11.0 sec	B - 11.5 sec

The traffic analysis results show that both intersections studied operate at acceptable levels of services across all scenarios. The additional truck and general traffic does not result in any noticeable delay increases or queuing at the intersections studied.

As a result, the addition of the site generated traffic does not have a substantial effect on the operations along Burnt Poplar Road and the facility has the capacity to accommodate the site generated traffic.



VHB	Burnt Poplar Transfer Station Traffic Impact Assessment Greensboro, North Carolina	Figure 1 Vicinity Map



LEGEND

- PROPERTY BOUNDARY
- ADJACENT PROPERTY LINE
- EXISTING FENCE
- WATERSHED STREAM BUFFER (ZONE 2)
- WATERSHED STREAM BUFFER (ZONE 1)
- WATERSHED STREAM BUFFER (ZONE 3)
- DITCH
- EXISTING SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING STORM DRAIN PIPE
- STORM MANHOLE
- GRATE INLET
- EXISTING OVERHEAD ELECTRIC
- POWER POLE
- LIGHT POLE
- LAMP POST
- EXISTING WATER LINE
- WATER VALVE
- WATER METER

REFERENCES

1. EXISTING SITE FEATURES ARE LABELED IN ITALICS.

REFERENCES

1. EXISTING FEATURES SHOWN FROM DRAWING "ALTA/ASCM LAND TITLE SURVEY FOR WI BURNT POPLAR TRANSFER, LLC MOREHEAD TOWNSHIP, GUILFORD COUNTY", DATED 2/9/12, PREPARED BY CPT ENGINEERING AND SURVEYING INC, HIGH POINT, NORTH CAROLINA.

LEGAL DESCRIPTION OF SUBJECT PROPERTY

LYING AND BEING SITUATE IN MOREHEAD TOWNSHIP, GUILFORD COUNTY, GREENSBORO, NORTH CAROLINA, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEING ALL OF LOT 2, CONTAINING 6.823 ± ACRES AS SHOWN ON THE FINAL PLAT FOR HILLTOP PROPERTIES, LLC AS RECORDED IN PLAT BOOK 168, PAGE 33, GUILFORD COUNTY REGISTRY.

TOGETHER WITH AND SUBJECT TO THE RIGHTS AND BENEFITS IN AND TO THAT CERTAIN THIRTY-FOOT (30') ACCESS AND PRIVATE UTILITY EASEMENT MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT AN EXISTING IRON PIPE IN THE SOUTHERN LINE OF BURNT POPLAR ROAD, (PUBLIC 60' R/W), SAID PIPE BEING THE NORTHEAST CORNER OF HILLTOP PROPERTIES, LLC AS RECORDED IN DEED BOOK 6058, PAGE 991 OF THE GUILFORD COUNTY REGISTRY, SAID PIPE ALSO BEING THE NORTHWEST CORNER OF LAMBERTH AND MCKINNEY, LLC., AS RECORDED IN DEED BOOK 4576, PAGE 67; THENCE ALONG THE SOUTHERN LINE OF BURNT POPLAR ROAD, NORTH 85°44'39" WEST, A DISTANCE OF 43.88 FEET TO A POINT IN THE CENTERLINE OF A 30' ACCESS AND PRIVATE UTILITY EASEMENT; THENCE LEAVING THE SOUTHERN LINE OF BURNT POPLAR ALONG THE CENTERLINE OF SAID 30' EASEMENT, THE FOLLOWING TEN (10) COURSES AND DISTANCES: (1) SOUTH 30°54'30" WEST A DISTANCE OF 211.58 FEET, (2) SOUTH 58°18'57" WEST A DISTANCE OF 60.74 FEET, 3) SOUTH 67°28'05" WEST A DISTANCE OF 37.88 FEET, (4) SOUTH 77°37'09" WEST A DISTANCE OF 26.87 FEET, (5) SOUTH 84°37'51" WEST A DISTANCE OF 30.30 FEET, (6) NORTH 84°00'36" WEST A DISTANCE OF 106.39 FEET, (7) SOUTH 87°14'29" WEST A DISTANCE OF 28.07 FEET, (8) SOUTH 63°34'44" WEST A DISTANCE OF 33.91 FEET. (9) SOUTH 46°36'29" WEST A DISTANCE OF 30.13 FEET, (10) SOUTH 82°19'18" WEST A DISTANCE OF 84.84 FEET TO A POINT IN THE LEASE LINE OF SAID HILLTOP PROPERTIES, LLC, SAID POINT BEING THE TERMINUS OF THE 30' ACCESS AND PRIVATE UTILITY EASEMENT; THENCE ALONG THE LEASE LINE SOUTH 08°51'25" WEST A DISTANCE OF 568.47 FEET FOR A TIE TO A POINT IN THE NORTHERN LINE OF GREENSBORO EQUIPMENT CARE CENTER, LLC AS RECORDED IN DEED BOOK 4816, PAGE 635.

THIS DESCRIPTION DESCRIBES THE CENTER LINE OF A 30' ACCESS AND PRIVATE UTILITY EASEMENT, BEING OFFSET 15 FEET EACH SIDE OF SAID CENTERLINE, CONTAINING 0.448 ACRES MORE OR LESS.

GENERAL NOTES

1. NO. OF LOTS: 1
2. TOTAL AREA: 6.82 ACRES
3. WATER SHED: UPPER RANDLEMAN LAKE
4. LEGAL DESCRIPTION: LOT 2 PB 168 PG 33 HILLTOP PROPERTIES, LLC
5. PARCEL NO: 0099784
6. PIN: 7824-66-4084
7. DEED: 007335-00340
8. ZONING: HI
9. USE: INDUSTRIAL
10. SPECIAL USE PERMIT #33 APPROVED BY ZONING COMMISSION FEBRUARY 14, 2005. EFFECTIVE DATE FEBRUARY 25, 2005.
11. SUP CONDITIONS
    - 11.1. ACCESS WILL BE SHARED WITH ADJACENT PROPERTIES TO THE EAST.
    - 11.2. MAXIMUM BUILDING SIZE WILL BE 7,000 SQUARE FEET
    - 11.3. THERE WILL BE AN ON-SITE FACILITY FOR WATER SHED COMPLIANCE

DEVELOPMENT NOTES

1. EXISTING GROSS FLOOR AREA: 1,000 S.F.
2. PROPOSED GROSS FLOOR AREA: 7,000 S.F.
3. EXISTING B.U.A.: 2.2 AC.
4. PROPOSED B.U.A.: 2.2 AC.

CERTIFICATION

ORIGINAL DOCUMENTS WERE ISSUED AND SEALED BY G. DAVID GARRETT, PG, PE 25462 ON 8/30/06 AND 10/30/07. APPROVED DOCUMENTS WERE ISSUED AND SEALED BY B. BRUCE NOOE, PE 23554 ON 11/17/01. REVISIONS MADE BY SMITH GARDNER, INC.

SITE ACCESSIBILITY NOTES

1. PEDISTRIAN ROUTES/MARKINGS ARE FOR HANDICAP ACCESSIBILITY ONLY.
2. LANDINGS OUTSIDE ALL DOORS SHALL BE SIZED PER THE NORTH CAROLINA BUILDING CODE (NCBC), BE AT THE SAME ELEVATION AS THE FFE, AND SHALL HAVE A MAX. 2% SLOPE IN ANY DIRECTION INCLUDING IN THE DIAGONAL.
3. THE SLOPES IN THE HANDICAP ACCESS AISLE AREA SHALL NOT EXCEED 2% IN ANY DIRECTION INCLUDING IN THE DIAGONAL
4. THERE SHALL BE NO DESIGNATED PEDESTRIAN ROUTES/SIDEWALKS WITHIN THE SITE, EXCEPT WHERE LABELED AS A RAMP WITH RAILS, WHICH EXCEED A 5% SLOPE IN THE DIRECTION OF TRAVEL AND A 2% CROSSLOPE.
5. ALL PEDESTRIAN ROUTES >5% (1:20), IF ANY, ARE LABELED AS 'RAMPS' SHOWING SLOPES, LEVEL LANDINGS AT TOP AND BOTTOM(MAX. 2% SLOPE IN ANY DIRECTION INCLUDING IN THE DIAGONAL), RAILINGS/GUARDRAILS, AND SHALL COMPLY WITH NCBC.
6. EXTERIOR EXIT DISCHARGE ILLUMINATION/LIGHTING SHALL BE REQUIRED FROM ALL EXIT DOORS TO THE PUBLIC WAY IN COMPLIANCE WITH NCBC 1006.

G:\CADWORX_Shishi\Burnt 12-1\revised 072913\sheets\WI-D0858A.dwg - 10/2/2013 3:27 PM

PREPARED FOR:
WASTE INDUSTRIES USA, INC.
3301 BENSON DRIVE
SUITE 601
RALEIGH, NC 27609
(919) 325-3000

PREPARED BY:
NC LIC. NO. C-0828 (ENGINEERING)
SMITH+ GARDNER
ENGINEERS
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

SEAL

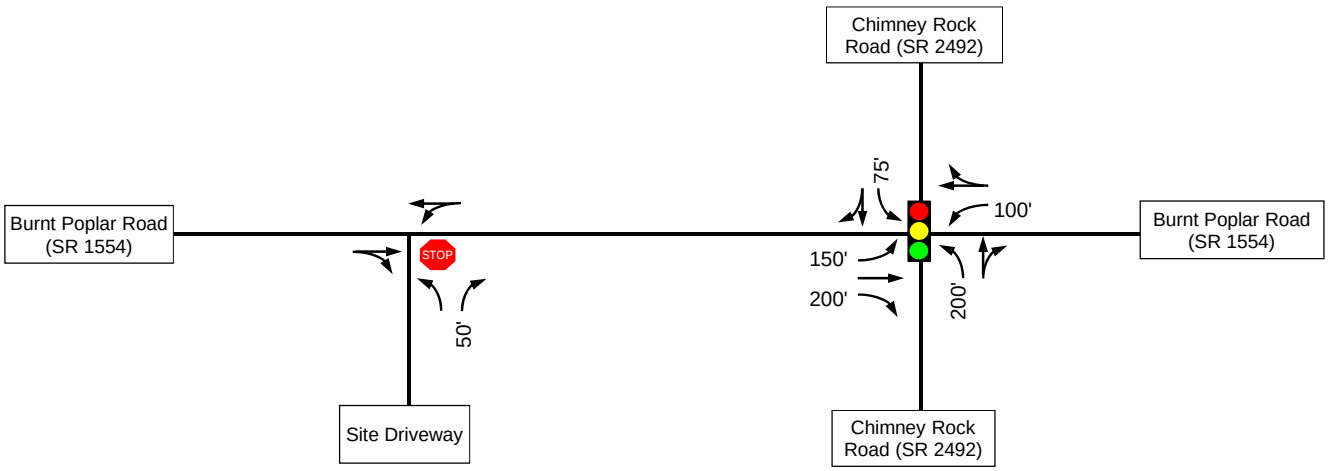
SEAL

REV.	DATE	DESCRIPTION
1	7/29/13	RESPONSE TO COMMENTS

PROJECT TITLE:
WI BURNT POPLAR TRANSFER, LLC
C&D / MSW TRANSFER STATION
MOREHEAD TOWNSHIP
GUILFORD COUNTY
6313 BURNT POPLAR ROAD
GREENSBORO, NC

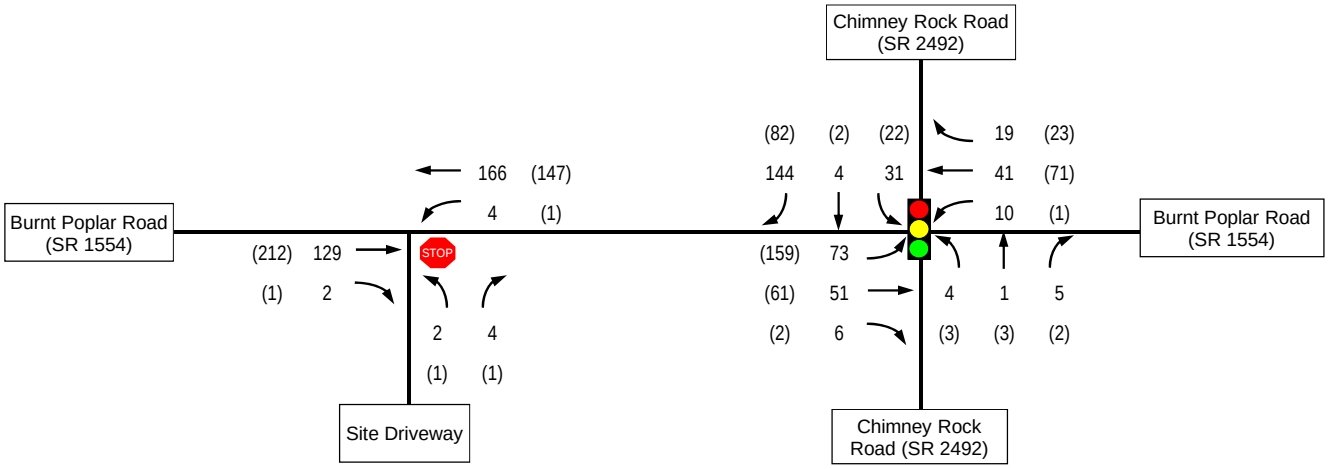
DRAWING TITLE:
SITE DEVELOPMENT
GENERAL FACILITY PLAN

DESIGNED: J.W.C.	PROJECT NO: BURNT 12-1
DRAWN: C.T.J.	SCALE: AS SHOWN
APPROVED:	DATE: JUNE 2013
FILENAME: WI-D0858A	
SHEET NUMBER: --	DRAWING NUMBER: FIG.3



Legend	
→	Existing Lane Configuration
	Existing Signalized Intersection
STOP	Existing Stop Controlled Approach

Figure 3: Existing (2013) Lane Geometrics and Traffic Control



Legend	
→	Turning Movement
	Existing Signalized Intersection
STOP	Existing Stop Controlled Approach
XX	AM Peak Hour Volume
(XX)	PM Peak Hour Volume

Figure 4: Existing (2013) AM and PM Peak Hour Turning Movement Volumes

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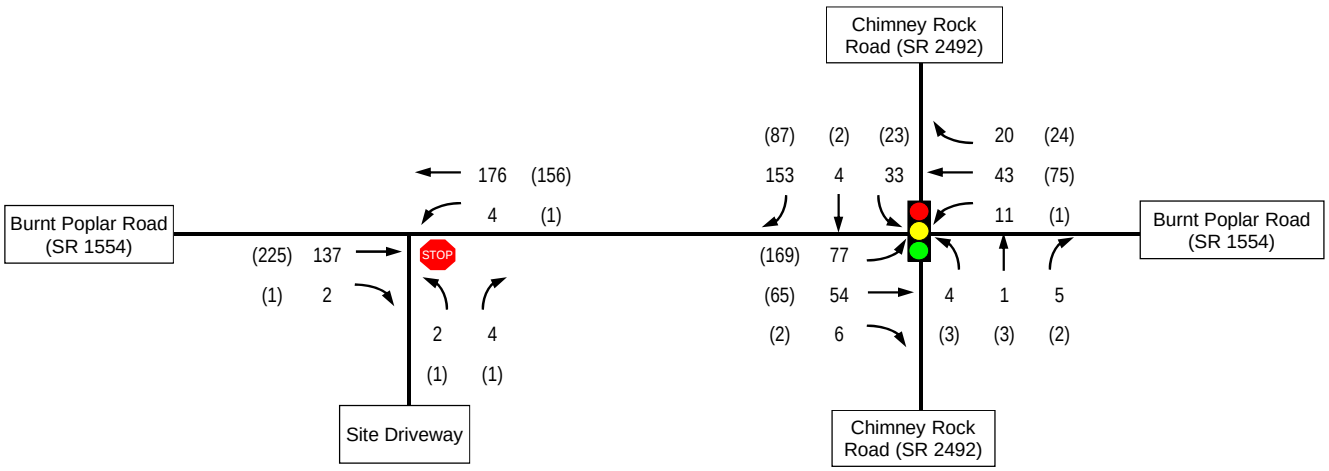
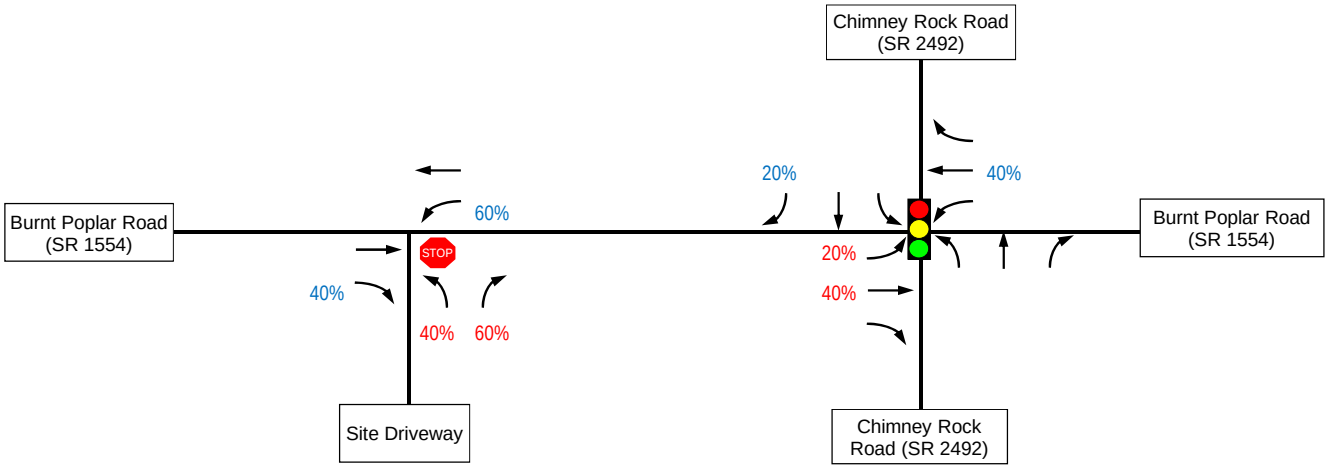
Burnt Poplar Transfer Station
Traffic Impact Assessment
Greensboro, North Carolina

N
not to scale



Legend	
→	Existing Lane Configuration
	Existing Signalized Intersection
STOP	Existing Stop Controlled Approach

Figure 5: No-Build (2015) Lane Geometrics and Traffic Control



Legend	
→	Turning Movement
	Existing Signalized Intersection
STOP	Existing Stop Controlled Approach
X%	Entering Distribution Percentage
X%	Exiting Distribution Percentage

Figure 6: Site Traffic Distribution

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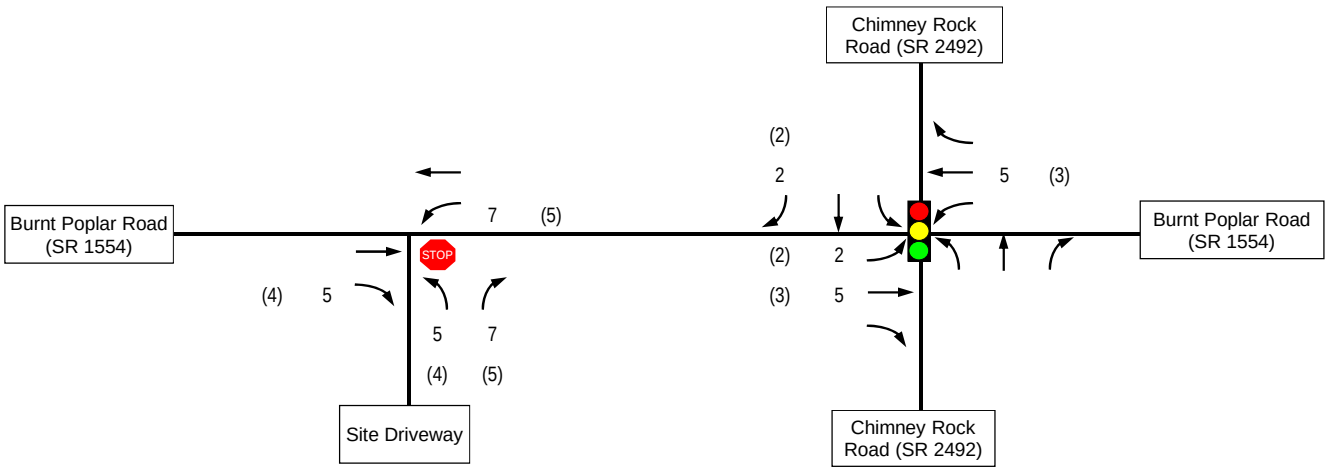
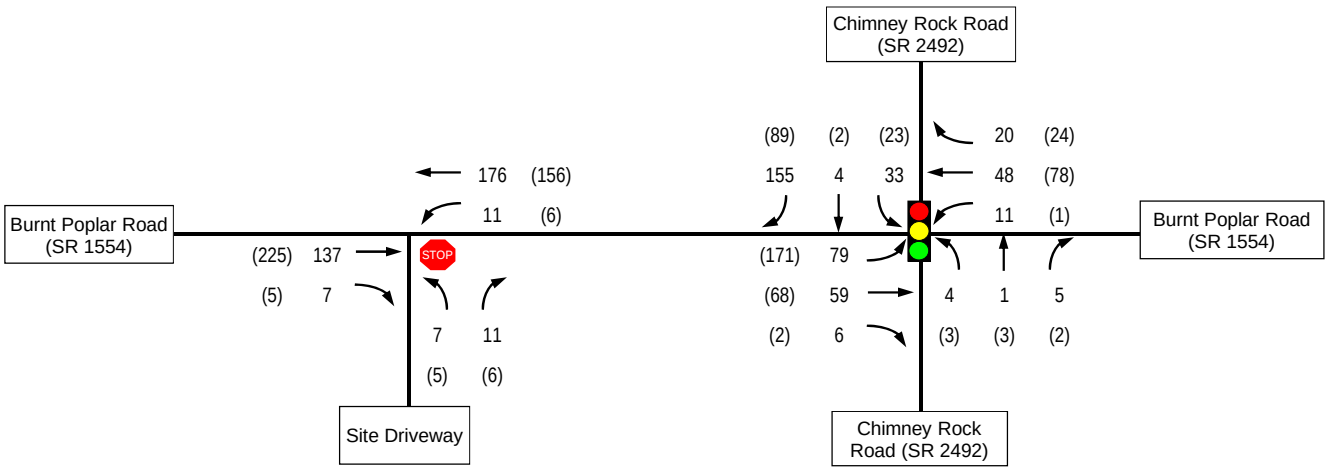
Burnt Poplar Transfer Station
Traffic Impact Assessment
Greensboro, North Carolina

N
not to scale



Legend	
→	Existing Lane Configuration
	Existing Signalized Intersection
STOP	Existing Stop Controlled Approach

Figure 7: Site Trips
(Assuming 400 tons/day)



Legend	
→	Turning Movement
	Existing Signalized Intersection
STOP	Existing Stop Controlled Approach
XX	AM Peak Hour Volume
(XX)	PM Peak Hour Volume

Figure 8: Build (2015) Peak Hour Turning Movement Volumes
(Assuming 400 tons/day)

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Burnt Poplar Transfer Station
Traffic Impact Assessment
Greensboro, North Carolina

N
not to scale

APPENDIX

VHB Engineering NC, P.C.
4000 WestChase Boulevard, Suite 530
Raleigh, North Carolina 27607
919.829.0328 ▪ FAX 919.829.0329
www.vhb.com

VHB Engineering NC, P.C.

4000 WestChase Boulevard, Suite 530
Raleigh, NC 27607
p: 919-829-0328, f: 919-829-0329

File Name : Burnt Poplar-Driveway
Site Code : 00000000
Start Date : 11/14/2013
Page No : 1

Groups Printed- All Vehicles

	N/A Southbound				Burnt Poplar Rd (SR 1554) Westbound				Transfer Station Driveway Northbound				Burnt Poplar Rd (SR 1554) Eastbound				
Start Time	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Int. Total
07:00 AM	0	0	0	0	1	27	0	3	0	0	1	1	0	25	0	4	62
07:15 AM	0	0	0	0	0	27	0	4	0	0	0	0	0	27	1	9	68
07:30 AM	0	0	0	0	2	45	0	9	0	0	1	1	0	32	1	8	99
07:45 AM	0	0	0	0	1	60	0	8	2	0	2	4	0	33	0	5	115
Total	0	0	0	0	4	159	0	24	2	0	4	6	0	117	2	26	344
08:00 AM	0	0	0	0	1	34	0	11	0	0	1	1	0	37	0	4	89
08:15 AM	0	0	0	0	0	35	0	2	0	0	0	0	0	23	0	6	66
08:30 AM	0	0	0	0	1	26	0	9	0	0	0	0	0	32	0	6	74
08:45 AM	0	0	0	0	0	25	0	8	0	0	1	1	0	23	0	7	65
Total	0	0	0	0	2	120	0	30	0	0	2	2	0	115	0	23	294
09:00 AM	0	0	0	0	0	22	0	6	0	0	0	0	0	23	0	10	61
09:15 AM	0	0	0	0	1	21	0	11	0	0	0	0	0	18	1	8	60
09:30 AM	0	0	0	0	0	19	0	9	2	0	1	1	0	17	1	5	55
09:45 AM	0	0	0	0	1	16	0	12	0	0	1	1	0	15	0	4	50
Total	0	0	0	0	2	78	0	38	2	0	2	2	0	73	2	27	226
10:00 AM	0	0	0	0	0	15	0	6	0	0	0	0	0	23	0	12	56
10:15 AM	0	0	0	0	1	25	0	11	0	0	0	0	0	22	0	12	71
10:30 AM	0	0	0	0	1	20	0	16	0	0	1	1	0	24	0	14	77
10:45 AM	0	0	0	0	0	19	0	5	1	0	0	1	0	23	0	13	62
Total	0	0	0	0	2	79	0	38	1	0	1	2	0	92	0	51	266
11:00 AM	0	0	0	0	1	37	0	21	0	0	0	0	0	27	0	13	99
11:15 AM	0	0	0	0	0	17	0	8	0	0	1	1	0	38	0	13	78
11:30 AM	0	0	0	0	1	22	0	6	0	0	0	0	0	34	0	11	74
11:45 AM	0	0	0	0	2	37	0	18	0	0	0	0	0	40	0	9	106
Total	0	0	0	0	4	113	0	53	0	0	1	1	0	139	0	46	357
12:00 PM	0	0	0	0	0	30	0	11	2	0	2	4	0	38	2	14	103
12:15 PM	0	0	0	0	1	37	0	8	0	0	1	1	0	40	0	12	100
12:30 PM	0	0	0	0	1	32	0	15	1	0	0	1	0	47	1	8	106
12:45 PM	0	0	0	0	1	36	0	12	2	0	1	3	0	38	1	9	103
Total	0	0	0	0	3	135	0	46	5	0	4	9	0	163	4	43	412
01:00 PM	0	0	0	0	0	25	0	8	0	0	1	1	0	31	1	7	74
01:15 PM	0	0	0	0	1	35	0	13	1	0	0	1	0	26	0	6	83
01:30 PM	0	0	0	0	1	25	0	6	0	0	1	1	0	26	2	13	75
01:45 PM	0	0	0	0	1	33	0	11	3	0	1	2	0	24	1	6	82
Total	0	0	0	0	3	118	0	38	4	0	3	5	0	107	4	32	314
02:00 PM	0	0	0	0	2	42	0	16	0	0	0	0	0	23	1	7	91
02:15 PM	0	0	0	0	0	28	0	9	1	0	3	4	0	27	1	10	83
02:30 PM	0	0	0	0	0	24	0	4	1	0	0	1	0	34	0	8	72
02:45 PM	0	0	0	0	0	41	0	16	0	0	0	0	0	23	0	9	89
Total	0	0	0	0	2	135	0	45	2	0	3	5	0	107	2	34	335
03:00 PM	0	0	0	0	0	33	0	11	0	0	0	0	0	30	0	11	85
03:15 PM	0	0	0	0	1	36	0	12	0	0	0	0	0	23	1	9	82
03:30 PM	0	0	0	0	1	30	0	9	1	0	1	2	0	48	0	5	97
03:45 PM	0	0	0	0	0	35	0	11	0	0	0	0	0	22	0	4	72
Total	0	0	0	0	2	134	0	43	1	0	1	2	0	123	1	29	336
04:00 PM	0	0	0	0	0	32	0	6	1	0	1	1	0	46	1	11	99
04:15 PM	0	0	0	0	0	22	0	5	1	0	0	1	0	29	0	5	63
04:30 PM	0	0	0	0	0	21	0	6	0	0	0	0	0	33	0	4	64

VHB Engineering NC, P.C.

4000 WestChase Boulevard, Suite 530
Raleigh, NC 27607
p: 919-829-0328, f: 919-829-0329

File Name : Burnt Poplar-Driveway
Site Code : 00000000
Start Date : 11/14/2013
Page No : 2

Groups Printed- All Vehicles

	N/A Southbound				Burnt Poplar Rd (SR 1554) Westbound				Transfer Station Driveway Northbound				Burnt Poplar Rd (SR 1554) Eastbound				
Start Time	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Int. Total
04:45 PM	0	0	0	0	1	23	0	6	0	0	1	0	0	34	1	6	72
Total	0	0	0	0	1	98	0	23	2	0	2	2	0	142	2	26	298
05:00 PM	0	0	0	0	0	51	0	7	1	0	0	1	0	75	0	7	142
05:15 PM	0	0	0	0	0	40	0	3	0	0	0	0	0	64	0	3	110
05:30 PM	0	0	0	0	0	33	0	6	0	0	0	0	0	39	0	6	84
05:45 PM	0	0	0	0	0	22	0	6	0	0	1	0	0	36	0	4	69
Total	0	0	0	0	0	146	0	22	1	0	1	1	0	214	0	20	405
Grand Total	0	0	0	0	25	1315	0	400	20	0	24	37	0	1392	17	357	3587
Apprch %	0	0	0	0	1.4	75.6	0	23	24.7	0	29.6	45.7	0	78.8	1	20.2	
Total %	0	0	0	0	0.7	36.7	0	11.2	0.6	0	0.7	1	0	38.8	0.5	10	

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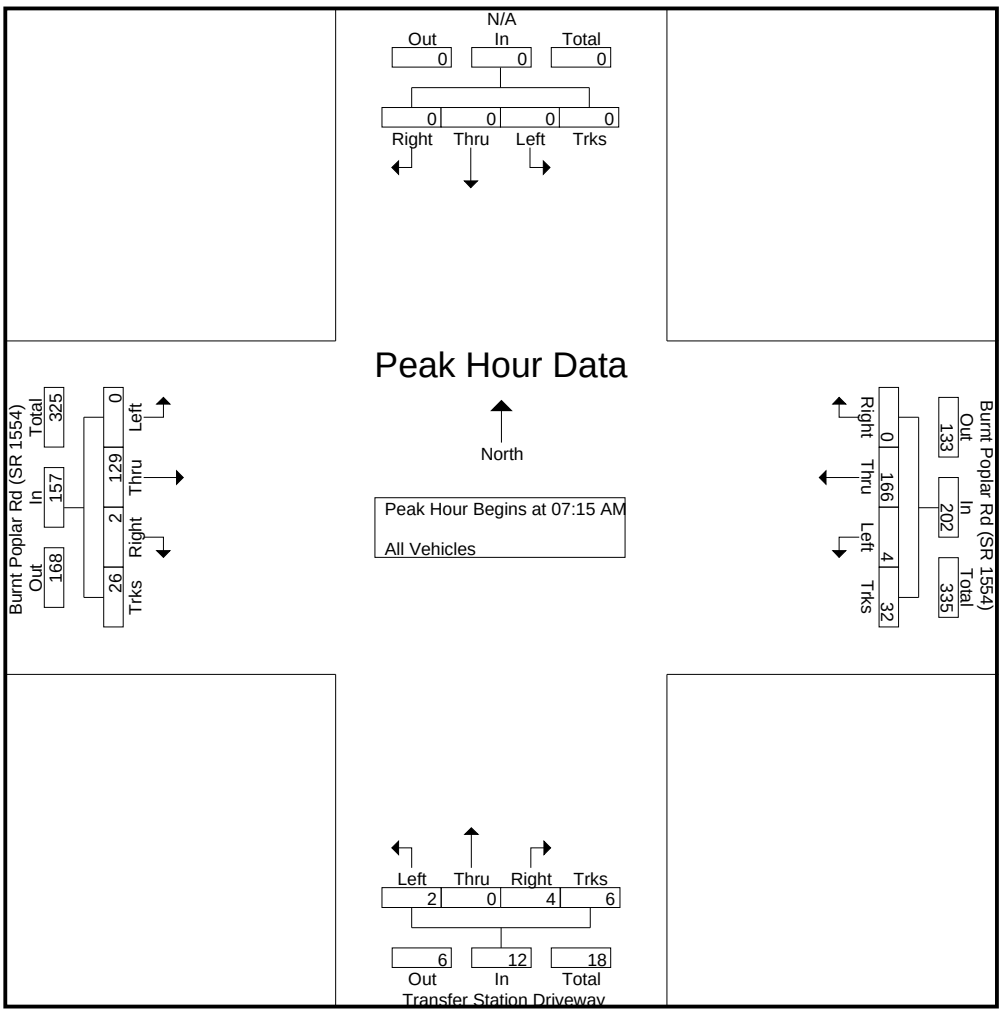
4000 WestChase Boulevard, Suite 530
Raleigh, NC 27607
p: 919-829-0328, f: 919-829-0329

File Name : Burnt Poplar-Driveway
Site Code : 00000000
Start Date : 11/14/2013
Page No : 3

	N/A Southbound					Burnt Poplar Rd (SR 1554) Westbound					Transfer Station Driveway Northbound					Burnt Poplar Rd (SR 1554) Eastbound					
Start Time	Left	Thru	Right	Trks	App. Total	Left	Thru	Right	Trks	App. Total	Left	Thru	Right	Trks	App. Total	Left	Thru	Right	Trks	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:15 AM																					
07:15 AM	0	0	0	0	0	0	27	0	4	31	0	0	0	0	0	0	27	**1**	**9**	37	68
07:30 AM	0	0	0	0	0	**2**	45	0	9	56	0	0	1	1	2	0	32	1	8	**41**	99
07:45 AM	0	0	0	0	0	1	**60**	0	8	**69**	**2**	0	**2**	**4**	**8**	0	33	0	5	38	**115**
08:00 AM	0	0	0	0	0	1	34	0	**11**	46	0	0	1	1	2	0	**37**	0	4	41	89
Total Volume	0	0	0	0	0	4	166	0	32	202	2	0	4	6	12	0	129	2	26	157	371
% App. Total	0	0	0	0		2	82.2	0	15.8		16.7	0	33.3	50		0	82.2	1.3	16.6		
PHF	.000	.000	.000	.000	.000	.500	.692	.000	.727	.732	.250	.000	.500	.375	.375	.000	.872	.500	.722	.957	.807



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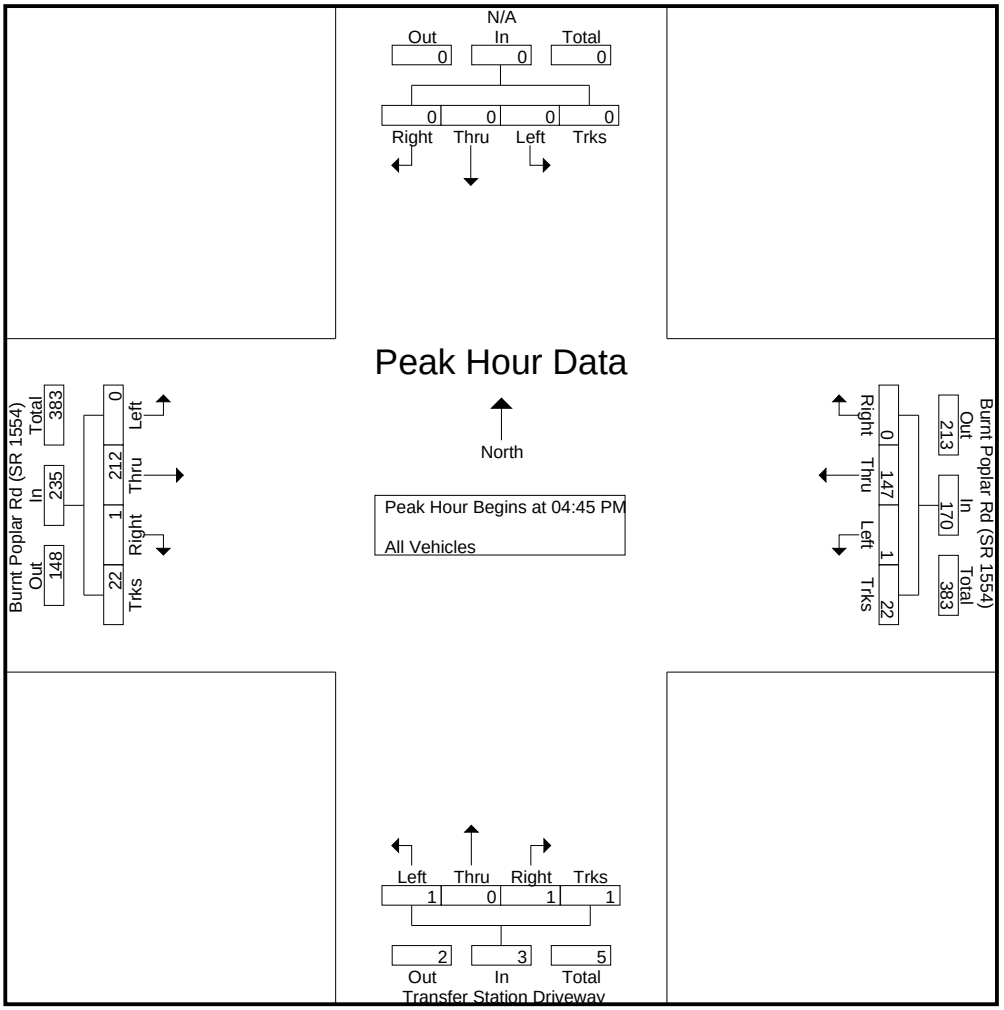
4000 WestChase Boulevard, Suite 530
Raleigh, NC 27607
p: 919-829-0328, f: 919-829-0329

File Name : Burnt Poplar-Driveway
Site Code : 00000000
Start Date : 11/14/2013
Page No : 4

	N/A Southbound					Burnt Poplar Rd (SR 1554) Westbound					Transfer Station Driveway Northbound					Burnt Poplar Rd (SR 1554) Eastbound					
Start Time	Left	Thru	Right	Trks	App. Total	Left	Thru	Right	Trks	App. Total	Left	Thru	Right	Trks	App. Total	Left	Thru	Right	Trks	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:45 PM																					
04:45 PM	0	0	0	0	0	**1**	23	0	6	30	0	0	**1**	0	1	0	34	**1**	6	41	72
05:00 PM	0	0	0	0	0	0	**51**	0	**7**	**58**	**1**	0	0	**1**	**2**	0	**75**	0	**7**	**82**	**142**
05:15 PM	0	0	0	0	0	0	40	0	3	43	0	0	0	0	0	0	64	0	3	67	110
05:30 PM	0	0	0	0	0	0	33	0	6	39	0	0	0	0	0	0	39	0	6	45	84
Total Volume	0	0	0	0	0	1	147	0	22	170	1	0	1	1	3	0	212	1	22	235	408
% App. Total	0	0	0	0		0.6	86.5	0	12.9		33.3	0	33.3	33.3		0	90.2	0.4	9.4		
PHF	.000	.000	.000	.000	.000	.250	.721	.000	.786	.733	.250	.000	.250	.250	.375	.000	.707	.250	.786	.716	.718



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4000 WestChase Boulevard, Suite 530
Raleigh, NC 27607
p: 919-829-0328, f: 919-829-0329

File Name : Burnt Poplar-Chimney Rock
Site Code : 00000000
Start Date : 11/14/2013
Page No : 1

Groups Printed- All Vehicles

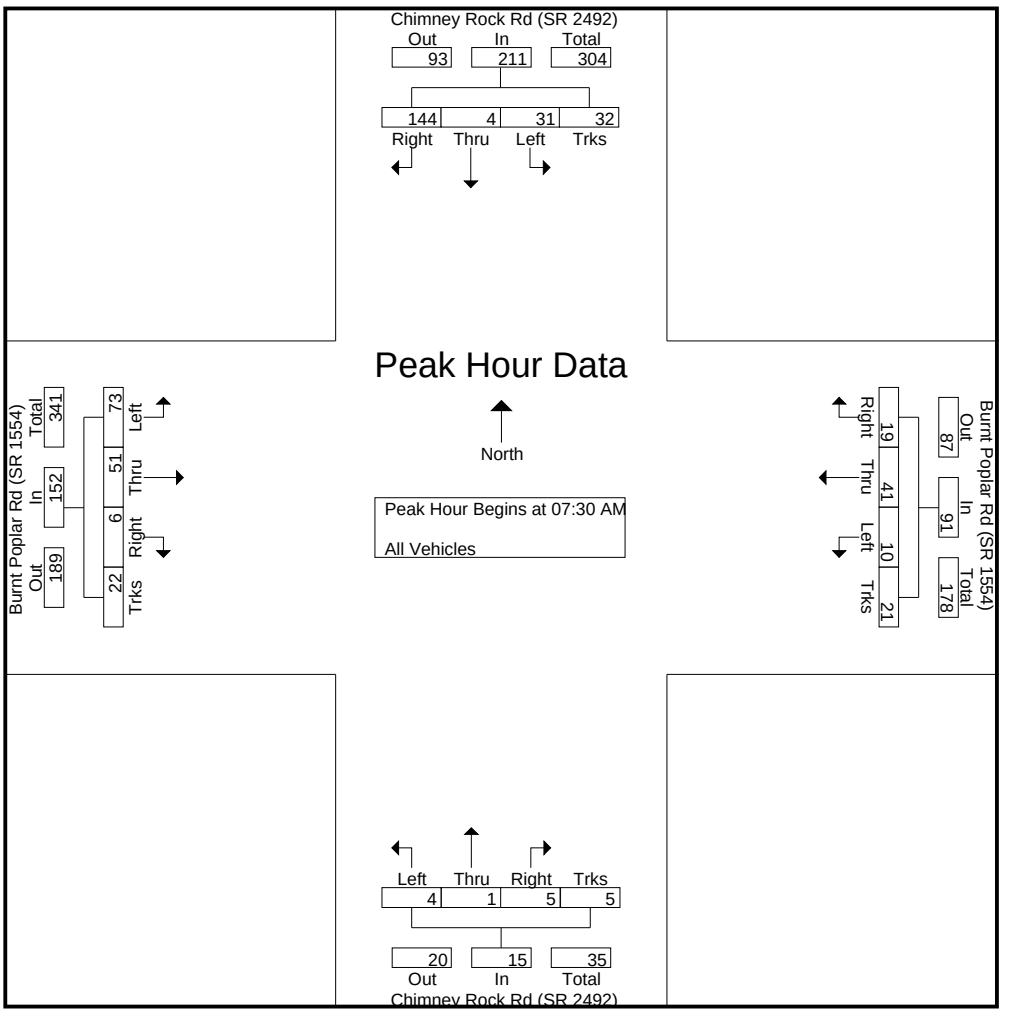
	Chimney Rock Rd (SR 2492) Southbound				Burnt Poplar Rd (SR 1554) Westbound				Chimney Rock Rd (SR 2492) Northbound				Burnt Poplar Rd (SR 1554) Eastbound				
Start Time	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Int. Total
07:00 AM	3	0	19	4	3	8	4	4	1	0	0	0	18	6	2	5	77
07:15 AM	6	0	22	5	1	11	3	3	1	0	0	0	15	13	1	10	91
07:30 AM	6	2	33	6	4	11	3	4	2	0	0	1	18	10	2	7	109
07:45 AM	10	1	51	9	4	13	5	5	1	0	2	2	23	14	1	7	148
Total	25	3	125	24	12	43	15	16	5	0	2	3	74	43	6	29	425
08:00 AM	11	0	30	12	2	7	2	5	1	1	1	1	23	13	2	4	115
08:15 AM	4	1	30	5	0	10	9	7	0	0	2	1	9	14	1	4	97
08:30 AM	7	0	19	8	1	7	2	4	0	0	1	0	17	13	0	9	88
08:45 AM	4	0	25	7	0	12	3	3	0	0	0	0	12	9	0	8	83
Total	26	1	104	32	3	36	16	19	1	1	4	2	61	49	3	25	383
*** BREAK ***																	
04:00 PM	4	2	21	5	1	14	8	6	2	1	2	0	35	18	1	11	131
04:15 PM	5	0	17	4	0	10	1	2	1	0	1	0	19	10	1	7	78
04:30 PM	10	0	13	4	0	14	5	3	0	0	1	0	28	6	0	3	87
04:45 PM	2	0	13	3	1	13	3	4	3	0	3	3	21	8	2	4	83
Total	21	2	64	16	2	51	17	15	6	1	7	3	103	42	4	25	379
05:00 PM	6	1	21	10	0	29	7	2	1	0	0	0	60	20	1	6	164
05:15 PM	7	0	26	3	0	17	6	2	1	0	0	0	45	18	1	2	128
05:30 PM	2	0	26	3	0	13	7	6	0	1	1	1	29	11	0	7	107
05:45 PM	7	1	9	4	1	12	3	4	1	2	1	1	25	12	0	3	86
Total	22	2	82	20	1	71	23	14	3	3	2	2	159	61	2	18	485
Grand Total	94	8	375	92	18	201	71	64	15	5	15	10	397	195	15	97	1672
Apprch %	16.5	1.4	65.9	16.2	5.1	56.8	20.1	18.1	33.3	11.1	33.3	22.2	56.4	27.7	2.1	13.8	
Total %	5.6	0.5	22.4	5.5	1.1	12	4.2	3.8	0.9	0.3	0.9	0.6	23.7	11.7	0.9	5.8	

VHB Engineering NC, P.C.

4000 WestChase Boulevard, Suite 530
Raleigh, NC 27607
p: 919-829-0328, f: 919-829-0329

File Name : Burnt Poplar-Chimney Rock
Site Code : 00000000
Start Date : 11/14/2013
Page No : 2

	Chimney Rock Rd (SR 2492) Southbound					Burnt Poplar Rd (SR 1554) Westbound					Chimney Rock Rd (SR 2492) Northbound					Burnt Poplar Rd (SR 1554) Eastbound					
Start Time	Left	Thru	Right	Trks	App. Total	Left	Thru	Right	Trks	App. Total	Left	Thru	Right	Trks	App. Total	Left	Thru	Right	Trks	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:30 AM																					
07:30 AM	6	**2**	33	6	47	**4**	11	3	4	22	**2**	0	0	1	3	18	10	**2**	**7**	37	109
07:45 AM	10	1	**51**	9	**71**	4	**13**	5	5	**27**	1	0	**2**	**2**	**5**	**23**	**14**	1	7	**45**	**148**
08:00 AM	**11**	0	30	**12**	53	2	7	2	5	16	1	**1**	1	1	4	23	13	2	4	42	115
08:15 AM	4	1	30	5	40	0	10	**9**	**7**	26	0	0	2	1	3	9	14	1	4	28	97
Total Volume	31	4	144	32	211	10	41	19	21	91	4	1	5	5	15	73	51	6	22	152	469
% App. Total	14.7	1.9	68.2	15.2		11	45.1	20.9	23.1		26.7	6.7	33.3	33.3		48	33.6	3.9	14.5		
PHF	.705	.500	.706	.667	.743	.625	.788	.528	.750	.843	.500	.250	.625	.625	.750	.793	.911	.750	.786	.844	.792



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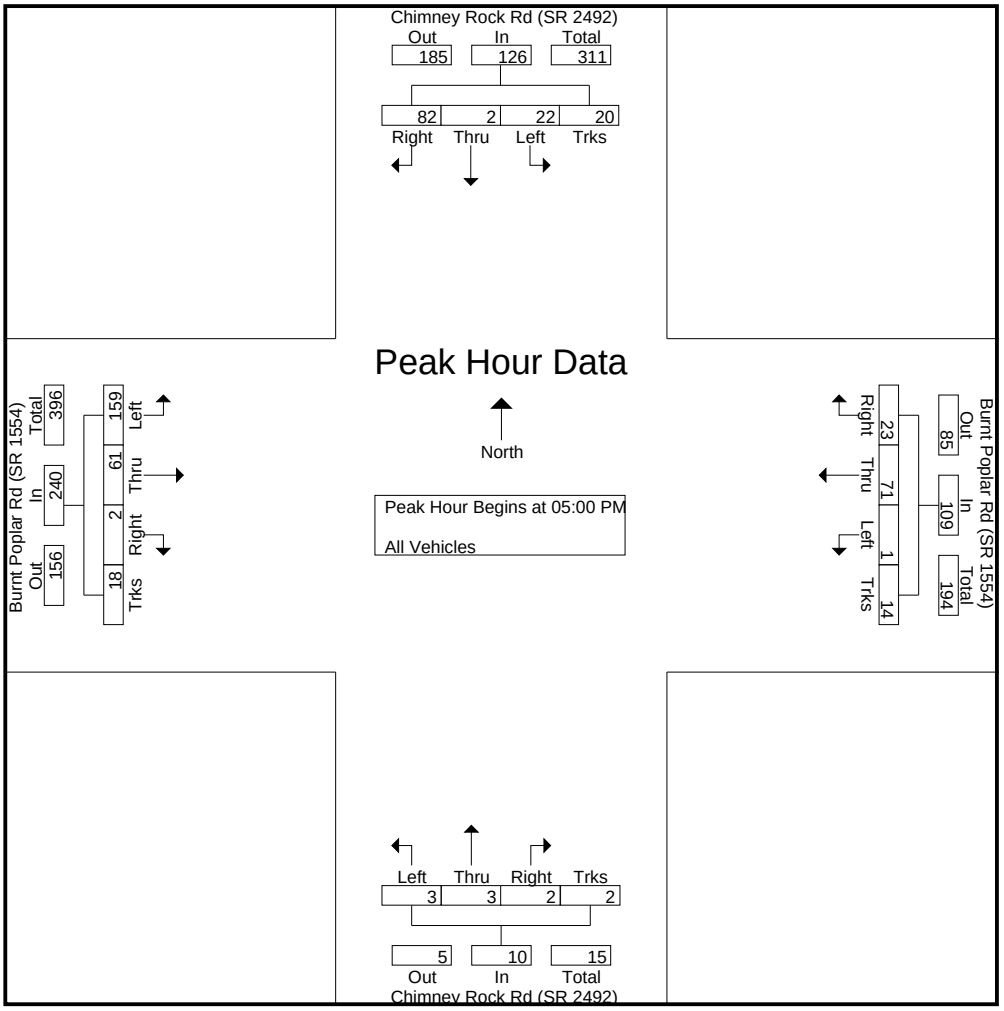
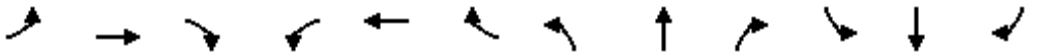
4000 WestChase Boulevard, Suite 530
Raleigh, NC 27607
p: 919-829-0328, f: 919-829-0329

File Name : Burnt Poplar-Chimney Rock
Site Code : 00000000
Start Date : 11/14/2013
Page No : 3

	Chimney Rock Rd (SR 2492) Southbound					Burnt Poplar Rd (SR 1554) Westbound					Chimney Rock Rd (SR 2492) Northbound					Burnt Poplar Rd (SR 1554) Eastbound					
Start Time	Left	Thru	Right	Trks	App. Total	Left	Thru	Right	Trks	App. Total	Left	Thru	Right	Trks	App. Total	Left	Thru	Right	Trks	App. Total	Int. Total
Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 05:00 PM																					
05:00 PM	6	**1**	21	**10**	**38**	0	**29**	**7**	2	**38**	**1**	0	0	0	1	**60**	**20**	**1**	6	**87**	**164**
05:15 PM	**7**	0	**26**	3	36	0	17	6	2	25	1	0	0	0	1	45	18	1	2	66	128
05:30 PM	2	0	26	3	31	0	13	7	**6**	26	0	1	**1**	**1**	3	29	11	0	**7**	47	107
05:45 PM	7	1	9	4	21	**1**	12	3	4	20	1	**2**	1	1	**5**	25	12	0	3	40	86
Total Volume	22	2	82	20	126	1	71	23	14	109	3	3	2	2	10	159	61	2	18	240	485
% App. Total	17.5	1.6	65.1	15.9		0.9	65.1	21.1	12.8		30	30	20	20		66.2	25.4	0.8	7.5		
PHF	.786	.500	.788	.500	.829	.250	.612	.821	.583	.717	.750	.375	.500	.500	.500	.663	.763	.500	.643	.690	.739



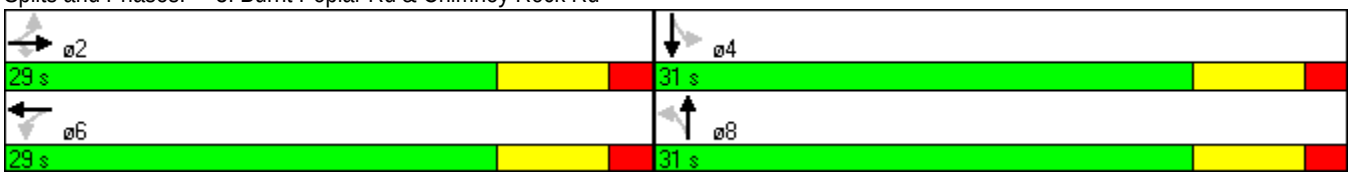


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	73	51	6	10	41	19	4	1	5	31	4	144
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	10	11	10	12	12	12	12	12	12	12	12	12
Storage Length (ft)	150		200	100		0	200		0	75		0
Storage Lanes	1		1	1		0	1		0	1		0
Taper Length (ft)	75		75	75		75	75		75	75		75
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850		0.953			0.871			0.854	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1440	1570	1288	1388	1393	0	1203	1103	0	1530	1375	0
Flt Permitted	0.713			0.720			0.653			0.753		
Satd. Flow (perm)	1081	1570	1288	1052	1393	0	827	1103	0	1212	1375	0
Right Turn on Red			No			No			No			No
Satd. Flow (RTOR)												
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		659			788			862			982	
Travel Time (s)		15.0			17.9			19.6			22.3	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	17%	17%	17%	30%	30%	30%	50%	50%	50%	18%	18%	18%
Adj. Flow (vph)	81	57	7	11	46	21	4	1	6	34	4	160
Shared Lane Traffic (%)												
Lane Group Flow (vph)	81	57	7	11	67	0	4	7	0	34	164	0
Turn Type	Perm		Perm	Perm			Perm			Perm		
Protected Phases		2			6			8			4	
Permitted Phases	2		2	6			8			4		
Detector Phase	2	2	2	6	6		8	8		4	4	
Switch Phase												
Minimum Initial (s)	12.0	12.0	12.0	12.0	12.0		7.0	7.0		7.0	7.0	
Minimum Split (s)	23.0	23.0	23.0	23.0	23.0		23.0	23.0		23.0	23.0	
Total Split (s)	29.0	29.0	29.0	29.0	29.0	0.0	31.0	31.0	0.0	31.0	31.0	0.0
Total Split (%)	48.3%	48.3%	48.3%	48.3%	48.3%	0.0%	51.7%	51.7%	0.0%	51.7%	51.7%	0.0%
Maximum Green (s)	22.0	22.0	22.0	22.0	22.0		24.0	24.0		24.0	24.0	
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0		5.0	5.0		5.0	5.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	
Lost Time Adjust (s)	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
Total Lost Time (s)	5.0	5.0	5.0	5.0	5.0	2.0	5.0	5.0	2.0	5.0	5.0	2.0
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None	None	None	None		None	None		None	None	
Act Effct Green (s)	15.6	15.6	15.6	15.6	15.6		12.3	12.3		12.3	12.3	
Actuated g/C Ratio	0.52	0.52	0.52	0.52	0.52		0.41	0.41		0.41	0.41	
v/c Ratio	0.14	0.07	0.01	0.02	0.09		0.01	0.02		0.07	0.29	
Control Delay	8.6	7.8	7.8	8.0	8.0		7.8	7.8		8.3	9.8	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	8.6	7.8	7.8	8.0	8.0		7.8	7.8		8.3	9.8	
LOS	A	A	A	A	A		A	A		A	A	
Approach Delay		8.3			8.0			7.8			9.6	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Approach LOS		A			A			A			A	
Queue Length 50th (ft)	9	6	1	1	8		1	1		4	23	
Queue Length 95th (ft)	33	24	6	8	27		4	6		16	54	
Internal Link Dist (ft)		579			708			782			902	
Turn Bay Length (ft)	150		200	100			200			75		
Base Capacity (vph)	852	1237	1015	829	1098		679	905		995	1128	
Starvation Cap Reductn	0	0	0	0	0		0	0		0	0	
Spillback Cap Reductn	0	0	0	0	0		0	0		0	0	
Storage Cap Reductn	0	0	0	0	0		0	0		0	0	
Reduced v/c Ratio	0.10	0.05	0.01	0.01	0.06		0.01	0.01		0.03	0.15	

Intersection Summary			
Area Type:	Other		
Cycle Length: 60			
Actuated Cycle Length: 30			
Natural Cycle: 50			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.29			
Intersection Signal Delay: 8.8		Intersection LOS: A	
Intersection Capacity Utilization 41.6%		ICU Level of Service A	
Analysis Period (min) 15			

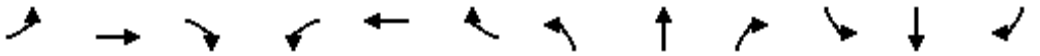
Splits and Phases: 3: Burnt Poplar Rd & Chimney Rock Rd



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Volume (veh/h)	129	2	4	166	2	4
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	143	2	4	184	2	4
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						2
Median type	None			None		
Median storage veh)						
Upstream signal (ft)				659		
pX, platoon unblocked						
vC, conflicting volume			146		338	144
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			146		338	144
tC, single (s)			4.3		7.4	7.2
tC, 2 stage (s)						
tF (s)			2.4		4.4	4.2
p0 queue free %			100		100	99
cM capacity (veh/h)			1339		497	698

Direction, Lane #	EB 1	WB 1	NB 1
Volume Total	146	189	7
Volume Left	0	4	2
Volume Right	2	0	4
cSH	1700	1339	1047
Volume to Capacity	0.09	0.00	0.01
Queue Length 95th (ft)	0	0	0
Control Delay (s)	0.0	0.2	10.9
Lane LOS		A	B
Approach Delay (s)	0.0	0.2	10.9
Approach LOS			B

Intersection Summary			
Average Delay	0.3		
Intersection Capacity Utilization	22.0%	ICU Level of Service	A
Analysis Period (min)	15		

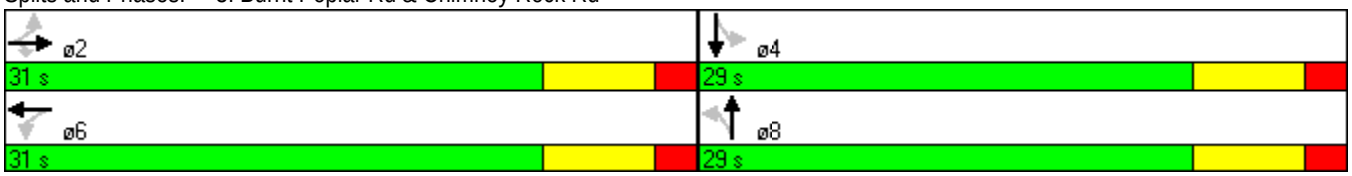


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	159	61	2	1	71	23	3	3	2	22	2	82
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	10	11	10	12	12	12	12	12	12	12	12	12
Storage Length (ft)	150		200	100		0	200		0	75		0
Storage Lanes	1		1	1		0	1		0	1		0
Taper Length (ft)	75		75	75		75	75		75	75		75
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850		0.963			0.940			0.853	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1560	1701	1396	1570	1591	0	1444	1429	0	1517	1362	0
Flt Permitted	0.689			0.713			0.697			0.754		
Satd. Flow (perm)	1131	1701	1396	1178	1591	0	1059	1429	0	1204	1362	0
Right Turn on Red			No			No			No			No
Satd. Flow (RTOR)												
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		659			788			862			982	
Travel Time (s)		15.0			17.9			19.6			22.3	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	8%	8%	8%	15%	15%	15%	25%	25%	25%	19%	19%	19%
Adj. Flow (vph)	177	68	2	1	79	26	3	3	2	24	2	91
Shared Lane Traffic (%)												
Lane Group Flow (vph)	177	68	2	1	105	0	3	5	0	24	93	0
Turn Type	Perm		Perm	Perm			Perm			Perm		
Protected Phases		2			6			8			4	
Permitted Phases	2		2	6			8			4		
Detector Phase	2	2	2	6	6		8	8		4	4	
Switch Phase												
Minimum Initial (s)	12.0	12.0	12.0	12.0	12.0		7.0	7.0		7.0	7.0	
Minimum Split (s)	23.0	23.0	23.0	23.0	23.0		23.0	23.0		23.0	23.0	
Total Split (s)	31.0	31.0	31.0	31.0	31.0	0.0	29.0	29.0	0.0	29.0	29.0	0.0
Total Split (%)	51.7%	51.7%	51.7%	51.7%	51.7%	0.0%	48.3%	48.3%	0.0%	48.3%	48.3%	0.0%
Maximum Green (s)	24.0	24.0	24.0	24.0	24.0		22.0	22.0		22.0	22.0	
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0		5.0	5.0		5.0	5.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	
Lost Time Adjust (s)	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
Total Lost Time (s)	5.0	5.0	5.0	5.0	5.0	2.0	5.0	5.0	2.0	5.0	5.0	2.0
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None	None	None	None		None	None		None	None	
Act Effct Green (s)	17.1	17.1	17.1	17.1	17.1		12.8	12.8		12.8	12.8	
Actuated g/C Ratio	0.61	0.61	0.61	0.61	0.61		0.46	0.46		0.46	0.46	
v/c Ratio	0.26	0.07	0.00	0.00	0.11		0.01	0.01		0.04	0.15	
Control Delay	7.9	6.4	6.5	6.0	6.5		9.7	9.5		9.9	10.0	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	7.9	6.4	6.5	6.0	6.5		9.7	9.5		9.9	10.0	
LOS	A	A	A	A	A		A	A		A	A	
Approach Delay		7.5			6.5			9.6			10.0	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Approach LOS		A			A			A			A	
Queue Length 50th (ft)	20	7	0	0	11		0	1		3	12	
Queue Length 95th (ft)	59	24	3	2	33		4	6		15	41	
Internal Link Dist (ft)		579			708			782			902	
Turn Bay Length (ft)	150		200	100			200			75		
Base Capacity (vph)	933	1403	1151	972	1312		839	1132		954	1079	
Starvation Cap Reductn	0	0	0	0	0		0	0		0	0	
Spillback Cap Reductn	0	0	0	0	0		0	0		0	0	
Storage Cap Reductn	0	0	0	0	0		0	0		0	0	
Reduced v/c Ratio	0.19	0.05	0.00	0.00	0.08		0.00	0.00		0.03	0.09	

Intersection Summary			
Area Type:	Other		
Cycle Length: 60			
Actuated Cycle Length: 28			
Natural Cycle: 50			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.26			
Intersection Signal Delay: 7.9		Intersection LOS: A	
Intersection Capacity Utilization 38.3%		ICU Level of Service A	
Analysis Period (min) 15			

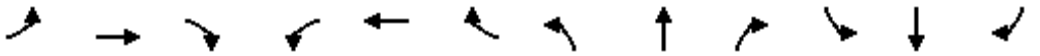
Splits and Phases: 3: Burnt Poplar Rd & Chimney Rock Rd



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Volume (veh/h)	212	1	1	147	1	1
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	236	1	1	163	1	1
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						2
Median type	None			None		
Median storage veh)						
Upstream signal (ft)				659		
pX, platoon unblocked						
vC, conflicting volume			237		402	236
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			237		402	236
tC, single (s)			4.2		6.9	6.7
tC, 2 stage (s)						
tF (s)			2.3		4.0	3.8
p0 queue free %			100		100	100
cM capacity (veh/h)			1258		521	698

Direction, Lane #	EB 1	WB 1	NB 1
Volume Total	237	164	2
Volume Left	0	1	1
Volume Right	1	0	1
cSH	1700	1258	1043
Volume to Capacity	0.14	0.00	0.00
Queue Length 95th (ft)	0	0	0
Control Delay (s)	0.0	0.1	11.0
Lane LOS		A	B
Approach Delay (s)	0.0	0.1	11.0
Approach LOS			B

Intersection Summary			
Average Delay	0.1		
Intersection Capacity Utilization	21.2%	ICU Level of Service	A
Analysis Period (min)	15		

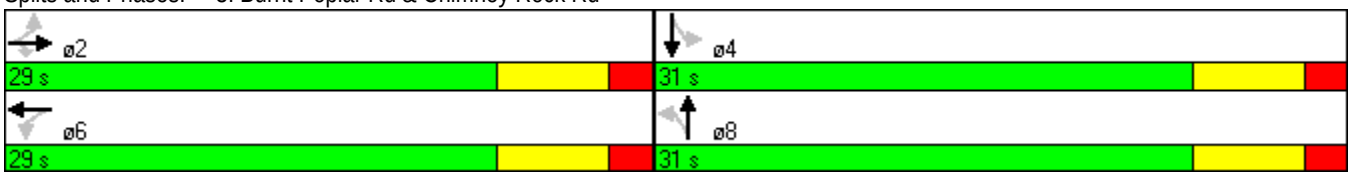


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	77	54	6	11	43	20	4	1	5	33	4	153
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	10	11	10	12	12	12	12	12	12	12	12	12
Storage Length (ft)	150		200	100		0	200		0	75		0
Storage Lanes	1		1	1		0	1		0	1		0
Taper Length (ft)	75		75	75		75	75		75	75		75
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850		0.953			0.871			0.853	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1440	1570	1288	1388	1393	0	1203	1103	0	1530	1373	0
Flt Permitted	0.711			0.718			0.647			0.753		
Satd. Flow (perm)	1078	1570	1288	1049	1393	0	820	1103	0	1212	1373	0
Right Turn on Red			No			No			No			No
Satd. Flow (RTOR)												
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		659			788			862			982	
Travel Time (s)		15.0			17.9			19.6			22.3	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	17%	17%	17%	30%	30%	30%	50%	50%	50%	18%	18%	18%
Adj. Flow (vph)	86	60	7	12	48	22	4	1	6	37	4	170
Shared Lane Traffic (%)												
Lane Group Flow (vph)	86	60	7	12	70	0	4	7	0	37	174	0
Turn Type	Perm		Perm	Perm			Perm			Perm		
Protected Phases		2			6			8			4	
Permitted Phases	2		2	6			8			4		
Detector Phase	2	2	2	6	6		8	8		4	4	
Switch Phase												
Minimum Initial (s)	12.0	12.0	12.0	12.0	12.0		7.0	7.0		7.0	7.0	
Minimum Split (s)	23.0	23.0	23.0	23.0	23.0		23.0	23.0		23.0	23.0	
Total Split (s)	29.0	29.0	29.0	29.0	29.0	0.0	31.0	31.0	0.0	31.0	31.0	0.0
Total Split (%)	48.3%	48.3%	48.3%	48.3%	48.3%	0.0%	51.7%	51.7%	0.0%	51.7%	51.7%	0.0%
Maximum Green (s)	22.0	22.0	22.0	22.0	22.0		24.0	24.0		24.0	24.0	
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0		5.0	5.0		5.0	5.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	
Lost Time Adjust (s)	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
Total Lost Time (s)	5.0	5.0	5.0	5.0	5.0	2.0	5.0	5.0	2.0	5.0	5.0	2.0
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None	None	None	None		None	None		None	None	
Act Effct Green (s)	15.7	15.7	15.7	15.7	15.7		12.6	12.6		12.6	12.6	
Actuated g/C Ratio	0.52	0.52	0.52	0.52	0.52		0.42	0.42		0.42	0.42	
v/c Ratio	0.15	0.07	0.01	0.02	0.10		0.01	0.02		0.07	0.30	
Control Delay	8.9	8.0	8.2	8.2	8.2		7.8	7.7		8.2	9.8	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	8.9	8.0	8.2	8.2	8.2		7.8	7.7		8.2	9.8	
LOS	A	A	A	A	A		A	A		A	A	
Approach Delay		8.5			8.2			7.7			9.5	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Approach LOS		A			A			A			A	
Queue Length 50th (ft)	10	7	1	1	8		1	1		5	25	
Queue Length 95th (ft)	36	25	6	9	29		4	6		17	57	
Internal Link Dist (ft)		579			708			782			902	
Turn Bay Length (ft)	150		200	100			200			75		
Base Capacity (vph)	845	1231	1010	823	1092		669	900		989	1121	
Starvation Cap Reductn	0	0	0	0	0		0	0		0	0	
Spillback Cap Reductn	0	0	0	0	0		0	0		0	0	
Storage Cap Reductn	0	0	0	0	0		0	0		0	0	
Reduced v/c Ratio	0.10	0.05	0.01	0.01	0.06		0.01	0.01		0.04	0.16	

Intersection Summary			
Area Type:	Other		
Cycle Length: 60			
Actuated Cycle Length: 30.1			
Natural Cycle: 50			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.30			
Intersection Signal Delay: 8.9		Intersection LOS: A	
Intersection Capacity Utilization 42.2%		ICU Level of Service A	
Analysis Period (min) 15			

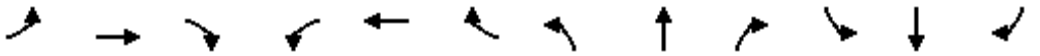
Splits and Phases: 3: Burnt Poplar Rd & Chimney Rock Rd



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Volume (veh/h)	137	2	4	176	2	4
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	152	2	4	196	2	4
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						2
Median type	None			None		
Median storage veh)						
Upstream signal (ft)				659		
pX, platoon unblocked						
vC, conflicting volume			154		358	153
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			154		358	153
tC, single (s)			4.3		7.4	7.2
tC, 2 stage (s)						
tF (s)			2.4		4.4	4.2
p0 queue free %			100		100	99
cM capacity (veh/h)			1328		483	689

Direction, Lane #	EB 1	WB 1	NB 1
Volume Total	154	200	7
Volume Left	0	4	2
Volume Right	2	0	4
cSH	1700	1328	1033
Volume to Capacity	0.09	0.00	0.01
Queue Length 95th (ft)	0	0	0
Control Delay (s)	0.0	0.2	11.0
Lane LOS		A	B
Approach Delay (s)	0.0	0.2	11.0
Approach LOS			B

Intersection Summary			
Average Delay	0.3		
Intersection Capacity Utilization	22.5%	ICU Level of Service	A
Analysis Period (min)	15		

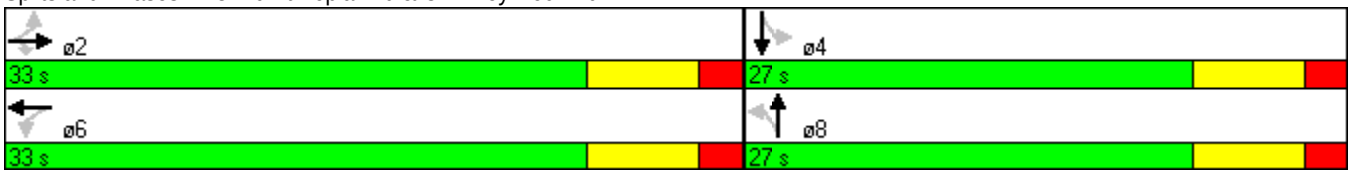


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	169	65	2	1	75	24	3	3	2	23	2	87
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	10	11	10	12	12	12	12	12	12	12	12	12
Storage Length (ft)	150		200	100		0	200		0	75		0
Storage Lanes	1		1	1		0	1		0	1		0
Taper Length (ft)	75		75	75		75	75		75	75		75
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850		0.963			0.940			0.853	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1560	1701	1396	1570	1591	0	1444	1429	0	1517	1362	0
Flt Permitted	0.686			0.710			0.693			0.754		
Satd. Flow (perm)	1126	1701	1396	1173	1591	0	1053	1429	0	1204	1362	0
Right Turn on Red			No			No			No			No
Satd. Flow (RTOR)												
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		659			788			862			982	
Travel Time (s)		15.0			17.9			19.6			22.3	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	8%	8%	8%	15%	15%	15%	25%	25%	25%	19%	19%	19%
Adj. Flow (vph)	188	72	2	1	83	27	3	3	2	26	2	97
Shared Lane Traffic (%)												
Lane Group Flow (vph)	188	72	2	1	110	0	3	5	0	26	99	0
Turn Type	Perm		Perm	Perm			Perm			Perm		
Protected Phases		2			6			8			4	
Permitted Phases	2		2	6			8			4		
Detector Phase	2	2	2	6	6		8	8		4	4	
Switch Phase												
Minimum Initial (s)	12.0	12.0	12.0	12.0	12.0		7.0	7.0		7.0	7.0	
Minimum Split (s)	23.0	23.0	23.0	23.0	23.0		23.0	23.0		23.0	23.0	
Total Split (s)	33.0	33.0	33.0	33.0	33.0	0.0	27.0	27.0	0.0	27.0	27.0	0.0
Total Split (%)	55.0%	55.0%	55.0%	55.0%	55.0%	0.0%	45.0%	45.0%	0.0%	45.0%	45.0%	0.0%
Maximum Green (s)	26.0	26.0	26.0	26.0	26.0		20.0	20.0		20.0	20.0	
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0		5.0	5.0		5.0	5.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	
Lost Time Adjust (s)	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
Total Lost Time (s)	5.0	5.0	5.0	5.0	5.0	2.0	5.0	5.0	2.0	5.0	5.0	2.0
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None	None	None	None		None	None		None	None	
Act Effct Green (s)	16.8	16.8	16.8	16.8	16.8		11.3	11.3		11.3	11.3	
Actuated g/C Ratio	0.55	0.55	0.55	0.55	0.55		0.37	0.37		0.37	0.37	
v/c Ratio	0.30	0.08	0.00	0.00	0.13		0.01	0.01		0.06	0.20	
Control Delay	8.5	6.5	6.5	6.0	6.7		10.0	9.8		10.3	10.9	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	8.5	6.5	6.5	6.0	6.7		10.0	9.8		10.3	10.9	
LOS	A	A	A	A	A		A	A		B	B	
Approach Delay		7.9			6.7			9.8			10.8	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Approach LOS		A			A			A			B	
Queue Length 50th (ft)	22	7	0	0	11		0	1		3	13	
Queue Length 95th (ft)	64	25	3	2	35		5	6		17	45	
Internal Link Dist (ft)		579			708			782			902	
Turn Bay Length (ft)	150		200	100			200			75		
Base Capacity (vph)	956	1444	1185	996	1350		792	1075		906	1025	
Starvation Cap Reductn	0	0	0	0	0		0	0		0	0	
Spillback Cap Reductn	0	0	0	0	0		0	0		0	0	
Storage Cap Reductn	0	0	0	0	0		0	0		0	0	
Reduced v/c Ratio	0.20	0.05	0.00	0.00	0.08		0.00	0.00		0.03	0.10	

Intersection Summary			
Area Type:	Other		
Cycle Length: 60			
Actuated Cycle Length: 30.4			
Natural Cycle: 50			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.30			
Intersection Signal Delay: 8.4		Intersection LOS: A	
Intersection Capacity Utilization 38.3%		ICU Level of Service A	
Analysis Period (min) 15			

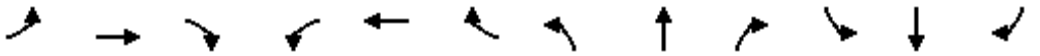
Splits and Phases: 3: Burnt Poplar Rd & Chimney Rock Rd



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Volume (veh/h)	225	1	1	156	1	1
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	250	1	1	173	1	1
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						2
Median type	None			None		
Median storage veh)						
Upstream signal (ft)				659		
pX, platoon unblocked						
vC, conflicting volume			251		426	251
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			251		426	251
tC, single (s)			4.2		6.9	6.7
tC, 2 stage (s)						
tF (s)			2.3		4.0	3.8
p0 queue free %			100		100	100
cM capacity (veh/h)			1242		504	684

Direction, Lane #	EB 1	WB 1	NB 1
Volume Total	251	174	2
Volume Left	0	1	1
Volume Right	1	0	1
cSH	1700	1242	1007
Volume to Capacity	0.15	0.00	0.00
Queue Length 95th (ft)	0	0	0
Control Delay (s)	0.0	0.1	11.2
Lane LOS		A	B
Approach Delay (s)	0.0	0.1	11.2
Approach LOS			B

Intersection Summary			
Average Delay	0.1		
Intersection Capacity Utilization	21.9%	ICU Level of Service	A
Analysis Period (min)	15		

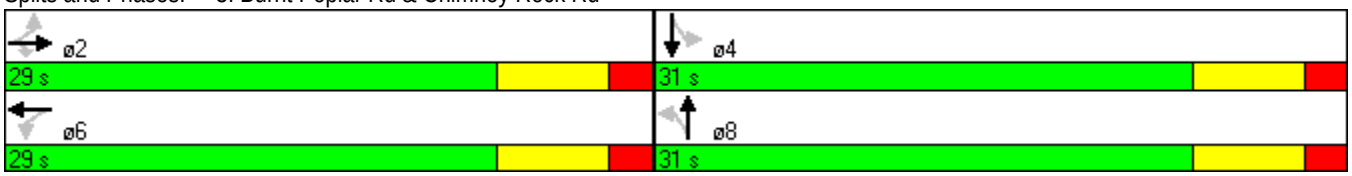


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	79	59	6	11	48	20	4	1	5	33	4	155
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	10	11	10	12	12	12	12	12	12	12	12	12
Storage Length (ft)	150		200	100		0	200		0	75		0
Storage Lanes	1		1	1		0	1		0	1		0
Taper Length (ft)	75		75	75		75	75		75	75		75
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850		0.956			0.871			0.853	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1404	1531	1256	1357	1366	0	1203	1103	0	1517	1362	0
Flt Permitted	0.708			0.714			0.646			0.753		
Satd. Flow (perm)	1046	1531	1256	1020	1366	0	818	1103	0	1202	1362	0
Right Turn on Red			No			No			No			No
Satd. Flow (RTOR)												
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		659			788			862			982	
Travel Time (s)		15.0			17.9			19.6			22.3	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	20%	20%	20%	33%	33%	33%	50%	50%	50%	19%	19%	19%
Adj. Flow (vph)	88	66	7	12	53	22	4	1	6	37	4	172
Shared Lane Traffic (%)												
Lane Group Flow (vph)	88	66	7	12	75	0	4	7	0	37	176	0
Turn Type	Perm		Perm	Perm			Perm			Perm		
Protected Phases		2			6			8			4	
Permitted Phases	2		2	6			8			4		
Detector Phase	2	2	2	6	6		8	8		4	4	
Switch Phase												
Minimum Initial (s)	12.0	12.0	12.0	12.0	12.0		7.0	7.0		7.0	7.0	
Minimum Split (s)	23.0	23.0	23.0	23.0	23.0		23.0	23.0		23.0	23.0	
Total Split (s)	29.0	29.0	29.0	29.0	29.0	0.0	31.0	31.0	0.0	31.0	31.0	0.0
Total Split (%)	48.3%	48.3%	48.3%	48.3%	48.3%	0.0%	51.7%	51.7%	0.0%	51.7%	51.7%	0.0%
Maximum Green (s)	22.0	22.0	22.0	22.0	22.0		24.0	24.0		24.0	24.0	
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0		5.0	5.0		5.0	5.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	
Lost Time Adjust (s)	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
Total Lost Time (s)	5.0	5.0	5.0	5.0	5.0	2.0	5.0	5.0	2.0	5.0	5.0	2.0
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None	None	None	None		None	None		None	None	
Act Effct Green (s)	15.8	15.8	15.8	15.8	15.8		12.8	12.8		12.8	12.8	
Actuated g/C Ratio	0.52	0.52	0.52	0.52	0.52		0.42	0.42		0.42	0.42	
v/c Ratio	0.16	0.08	0.01	0.02	0.10		0.01	0.02		0.07	0.31	
Control Delay	9.0	8.1	8.2	8.3	8.3		7.8	7.8		8.2	9.8	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	9.0	8.1	8.2	8.3	8.3		7.8	7.8		8.2	9.8	
LOS	A	A	A	A	A		A	A		A	A	
Approach Delay		8.6			8.3			7.8			9.6	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Approach LOS		A			A			A			A	
Queue Length 50th (ft)	11	8	1	1	9		1	1		5	25	
Queue Length 95th (ft)	37	28	6	9	31		4	6		17	59	
Internal Link Dist (ft)		579			708			782			902	
Turn Bay Length (ft)	150		200	100			200			75		
Base Capacity (vph)	817	1196	981	797	1067		665	897		977	1108	
Starvation Cap Reductn	0	0	0	0	0		0	0		0	0	
Spillback Cap Reductn	0	0	0	0	0		0	0		0	0	
Storage Cap Reductn	0	0	0	0	0		0	0		0	0	
Reduced v/c Ratio	0.11	0.06	0.01	0.02	0.07		0.01	0.01		0.04	0.16	

Intersection Summary			
Area Type:	Other		
Cycle Length: 60			
Actuated Cycle Length: 30.2			
Natural Cycle: 50			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.31			
Intersection Signal Delay: 8.9		Intersection LOS: A	
Intersection Capacity Utilization 42.3%		ICU Level of Service A	
Analysis Period (min) 15			

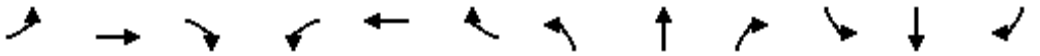
Splits and Phases: 3: Burnt Poplar Rd & Chimney Rock Rd



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Volume (veh/h)	137	7	11	176	7	11
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	152	8	12	196	8	12
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						2
Median type	None			None		
Median storage veh)						
Upstream signal (ft)				659		
pX, platoon unblocked						
vC, conflicting volume			160		376	156
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			160		376	156
tC, single (s)			4.3		7.2	7.0
tC, 2 stage (s)						
tF (s)			2.4		4.2	4.0
p0 queue free %			99		98	98
cM capacity (veh/h)			1311		489	715

Direction, Lane #	EB 1	WB 1	NB 1
Volume Total	160	208	20
Volume Left	0	12	8
Volume Right	8	0	12
cSH	1700	1311	1170
Volume to Capacity	0.09	0.01	0.02
Queue Length 95th (ft)	0	1	1
Control Delay (s)	0.0	0.5	11.0
Lane LOS		A	B
Approach Delay (s)	0.0	0.5	11.0
Approach LOS			B

Intersection Summary			
Average Delay		0.9	
Intersection Capacity Utilization		28.3%	ICU Level of Service A
Analysis Period (min)		15	

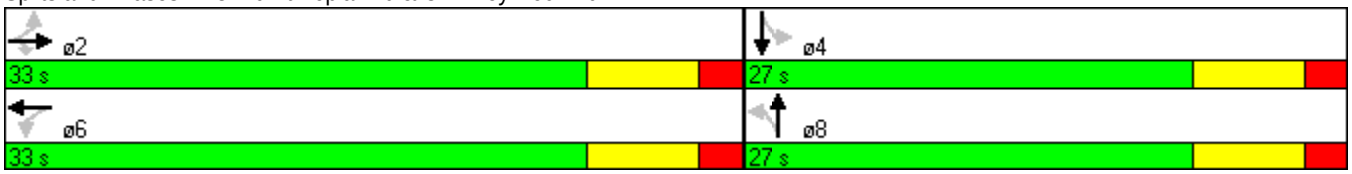


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	171	68	2	1	78	24	3	3	2	23	2	89
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	10	11	10	12	12	12	12	12	12	12	12	12
Storage Length (ft)	150		200	100		0	200		0	75		0
Storage Lanes	1		1	1		0	1		0	1		0
Taper Length (ft)	75		75	75		75	75		75	75		75
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850		0.964			0.940			0.853	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1532	1670	1370	1543	1565	0	1444	1429	0	1517	1362	0
Flt Permitted	0.684			0.708			0.692			0.754		
Satd. Flow (perm)	1103	1670	1370	1150	1565	0	1052	1429	0	1204	1362	0
Right Turn on Red			No			No			No			No
Satd. Flow (RTOR)												
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		659			788			862			982	
Travel Time (s)		15.0			17.9			19.6			22.3	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	10%	10%	10%	17%	17%	17%	25%	25%	25%	19%	19%	19%
Adj. Flow (vph)	190	76	2	1	87	27	3	3	2	26	2	99
Shared Lane Traffic (%)												
Lane Group Flow (vph)	190	76	2	1	114	0	3	5	0	26	101	0
Turn Type	Perm		Perm	Perm			Perm			Perm		
Protected Phases		2			6			8			4	
Permitted Phases	2		2	6			8			4		
Detector Phase	2	2	2	6	6		8	8		4	4	
Switch Phase												
Minimum Initial (s)	12.0	12.0	12.0	12.0	12.0		7.0	7.0		7.0	7.0	
Minimum Split (s)	23.0	23.0	23.0	23.0	23.0		23.0	23.0		23.0	23.0	
Total Split (s)	33.0	33.0	33.0	33.0	33.0	0.0	27.0	27.0	0.0	27.0	27.0	0.0
Total Split (%)	55.0%	55.0%	55.0%	55.0%	55.0%	0.0%	45.0%	45.0%	0.0%	45.0%	45.0%	0.0%
Maximum Green (s)	26.0	26.0	26.0	26.0	26.0		20.0	20.0		20.0	20.0	
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0		5.0	5.0		5.0	5.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	
Lost Time Adjust (s)	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
Total Lost Time (s)	5.0	5.0	5.0	5.0	5.0	2.0	5.0	5.0	2.0	5.0	5.0	2.0
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None	None	None	None		None	None		None	None	
Act Effct Green (s)	17.0	17.0	17.0	17.0	17.0		11.4	11.4		11.4	11.4	
Actuated g/C Ratio	0.56	0.56	0.56	0.56	0.56		0.37	0.37		0.37	0.37	
v/c Ratio	0.31	0.08	0.00	0.00	0.13		0.01	0.01		0.06	0.20	
Control Delay	8.6	6.5	6.5	6.0	6.7		10.0	10.0		10.4	11.0	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	8.6	6.5	6.5	6.0	6.7		10.0	10.0		10.4	11.0	
LOS	A	A	A	A	A		A	A		B	B	
Approach Delay		8.0			6.7			10.0			10.9	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Approach LOS		A			A			A			B	
Queue Length 50th (ft)	22	8	0	0	12		0	1		3	14	
Queue Length 95th (ft)	66	26	3	2	36		5	6		17	46	
Internal Link Dist (ft)		579			708			782			902	
Turn Bay Length (ft)	150		200	100			200			75		
Base Capacity (vph)	931	1410	1157	971	1321		788	1070		902	1020	
Starvation Cap Reductn	0	0	0	0	0		0	0		0	0	
Spillback Cap Reductn	0	0	0	0	0		0	0		0	0	
Storage Cap Reductn	0	0	0	0	0		0	0		0	0	
Reduced v/c Ratio	0.20	0.05	0.00	0.00	0.09		0.00	0.00		0.03	0.10	

Intersection Summary			
Area Type:	Other		
Cycle Length: 60			
Actuated Cycle Length: 30.6			
Natural Cycle: 50			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.31			
Intersection Signal Delay: 8.5		Intersection LOS: A	
Intersection Capacity Utilization 38.3%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 3: Burnt Poplar Rd & Chimney Rock Rd



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Volume (veh/h)	225	5	6	156	5	6
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	250	6	7	173	6	7
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						2
Median type	None			None		
Median storage veh)						
Upstream signal (ft)				659		
pX, platoon unblocked						
vC, conflicting volume			256		439	253
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			256		439	253
tC, single (s)			4.3		7.0	6.8
tC, 2 stage (s)						
tF (s)			2.4		4.1	3.9
p0 queue free %			99		99	99
cM capacity (veh/h)			1227		472	656

Direction, Lane #	EB 1	WB 1	NB 1
Volume Total	256	180	12
Volume Left	0	7	6
Volume Right	6	0	7
cSH	1700	1227	1039
Volume to Capacity	0.15	0.01	0.01
Queue Length 95th (ft)	0	0	1
Control Delay (s)	0.0	0.3	11.5
Lane LOS		A	B
Approach Delay (s)	0.0	0.3	11.5
Approach LOS			B

Intersection Summary			
Average Delay	0.5		
Intersection Capacity Utilization	23.1%	ICU Level of Service	A
Analysis Period (min)	15		

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

March 28, 2014

Ms. Jeryl W. Covington, P.E.
Smith-Gardner
14 N. Boylan Avenue
Raleigh, NC 27603

Dear Ms. Covington:

Thank you for the information concerning the proposed construction and demolition transfer station to be located at 6311 Burnt Poplar Road.

Since this road is on the City of Greensboro's street system, I have requested Mr. Adam Fischer, P.E., Director of Transportation to also review this information.

Therefore, please find a copy of Adam Fischer's letter and also my certification, that based on the information provided, this proposed transfer station will not have a substantial impact on highway traffic.

If you need any additional information, please do not hesitate to contact this office.

Sincerely,

J. M. Mills, P.E.
Division Engineer

JMM/jm
Atta.

Cc: Mr. Adam Fischer
Mr. Darrell Ferguson

P. O. Box 14996 Greensboro, NC 27415-4996 Telephone No. (336) 487-0000 Fax No. (336) 334-3637

City of Greensboro
North Carolina

March 4, 2014

Mr. Mike Mills, PE
Division Engineer
NCDOT
PO Box 14996
Greensboro, NC 27415

Dear Mr. Mills:

I am in receipt of the traffic analysis conducted by VHB+Martin/Alexiou/Bryson dated December 19, 2013 for the proposed expansion of the C&D MSW transfer station located at 6313 Burnt Poplar Road.

The subject site plan was reviewed and received approval from the City Of Greensboro Technical Review Committee in October 2013.

Based on our review of the submitted study, it has been determined that the proposed expansion of the C&D transfer station will not have a substantial impact on the roadway network

Please advise if you have any questions.

Sincerely,

Adam Fischer, P.E.
Director of Transportation

Correspondence

Permit to Construct Application
WI Burnt Poplar Transfer, LLC
NC Solid Waste Permit No. 41-22T

SMITH+GARDNER
ENGINEERS

ADDRESS
14 N. Boylan Avenue, Raleigh NC 27603

TEL
919.828.0577

WEB
www.smithgardnerinc.com

March 31, 2014

Ms. Pat Backus, P.E.
Environmental Engineer
Division of Waste Management
1646 Mail Service Center
Raleigh, NC 27699-1646

RE: WI Burnt Poplar Transfer, LLC – Response to Comments
Permit to Construct Application
Solid Waste Permit No. 41-22T

Dear Ms. Backus:

On behalf of WI Burnt Poplar Transfer, LLC, Smith Gardner Inc. (S+G) has prepared this response to the comments issued March 27, 2014 (**Attachment 1**). The following responses address each comment and references revisions to the application. Please find each comment in italics and the associated response below.

Comment 1:

Table 3 in the operation plan lists tires and white goods as acceptable for recycling. The plan does not indicate any specific information on handling and disposal of these materials. These wastes have specific requirements based on statutes and rules, for example, the removal refrigerants from white goods and limits and conditions on tire storage. The plan should also indicate where the tires will be sent.

Response 1:

Section 2.5.5 has been revised as follows:

Tires and white goods will be collected in roll-off containers and transported to appropriate processing facilities.

Comment 2:

It is my understanding that you haven't received the required certification from NCDOT concerning the traffic study. This is required prior to issuance of the permit.

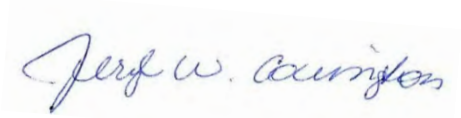
Response 2:

A copy of the NCDOT certification dated March 28, 2014 and a similar approval letter from the City of Greensboro dated March 4, 2014 are included in **Attachment G** of the revised permit application.

A revised permit application is attached incorporating all comments received (**Attachment 2**).

Should you have any questions or require clarification, please contact us at (919) 828-0577 or by email below.

Sincerely,
Smith Gardner, Inc.



Jeryl W. Covington, P.E.
Senior Project Engineer, ext. 229
jeryl@smithgardnerinc.com

Stacey A. Smith, P.E.
Project Manager, ext. 127
stacey@smithgardnerinc.com

jwc/sas
Att.
CC: Mr. Ed Mussler, P.E., NCDENR
Mr. David Pepper, Waste Industries USA, Inc.
Mr. Brent Kirchhoff, Waste Industries USA, Inc.
Mr. John Barnard, P.E., Waste Industries USA, Inc.
Mr. Roger Marcum, Waste Industries USA, Inc.
File

North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

John E. Skvarla, III
Secretary

March 27, 2014

Mr. David Pepper
Manager
Waste Industries USA, Inc.
3301 Benson Drive, Suite 600
Raleigh, NC 27609

Subject: Second Application Review
WI Burnt Poplar Transfer, LLC
Permit No. 41-22T, Guilford County, Document ID No. 20773

Dear Mr. Pepper:

The Division of Waste Management, Solid Waste Section, has reviewed the revision to your application received via email on March 1, 2014 (DIN 20772). My previous questions and comments were adequately addressed.

However, based on the response I have the following additional comments and questions.

1. Table 3 in the operation plan lists tires and white good as acceptable for recycling. The plan does not indicate any specific information on handling and disposal of these materials. These wastes have specific requirements based on statutes and rules, for example, the removal refrigerants from white goods and limits and conditions on tire storage. The plan should also indicate where the tires will be sent.

2. It is my understanding that you haven't received the required certification from NCDOT concerning the traffic study. This is required prior to issuance of the permit.

Please address this questions and comments and make changes where appropriate to the application/operation plan.

If you have any questions regarding this matter, please contact me at (919) 707-8257 or by email at pat.backus@ncdenr.gov.

Sincerely,

Patricia Backus, P.E., Environmental Engineer
Division of Waste Management, NCDENR

cc: Jeryl. W. Covington, P.E., Smith Gardner
Ed Mussler, P.E., Permitting Branch Head
Hugh Jernigan, Environmental Senior Specialist
Stacey A. Smith, P.E., Smith Gardner
Jason Watkins, Western District Supervisor

SMITH+GARDNER
ENGINEERS

ADDRESS
14 N. Boylan Avenue, Raleigh NC 27603

TEL
919.828.0577

WEB
www.smithgardnerinc.com

Scanned By	Date	DOC ID	Permit
Backus	02/24/2014	20626	4122T-TRANSFER-2012

December 20, 2013

Mr. Edward F. Mussler III, P.E.
Permitting Branch Supervisor
NCDENR – Division of Waste Management
217 West Jones Street
Raleigh, North Carolina 27603

RE: Permit to Construct Application
WI Burnt Poplar Transfer, LLC
NC Solid Waste Permit No. 41-22T

Dear Ed:

On behalf of WI Burnt Poplar Transfer, LLC (a Waste Industries Company), Smith Gardner, Inc. (S+G) is pleased to submit the enclosed permit to construct application for the solid waste transfer station. The enclosed application addresses a structural enclosure of the operating pad and the incorporation of transferring municipal solid waste at this location. Please be advised that a traffic certification has been requested to NC DOT through a traffic analysis by VHB and included in the application. Once certification is provided by the DOT, S+G will forward the correspondence to the Division.

Should you have any questions or require clarification, please contact us at (919) 828-0577 or by email below.

Sincerely,
SMITH GARDNER, INC.

Jeryl W. Covington, P.E.
Sr. Project Engineer, ext. 229
jeryl@smithgardnerinc.com

Stacey A. Smith, P.E.
Project Manager, ext. 127
stacey@smithgardnerinc.com

Attachment

Cc: Mr. David Pepper, Waste Industries USA, Inc.
Mr. Brent Kirchhoff, Waste Industries USA, Inc.
Mr. Roger Marcum, WI Burnt Poplar Transfer Station, LLC
Ms. Patricia Backus, NCDENR
File

H:\projects\WCA Waste Industries\Burnt Poplar TS\PTC Application\PTC Cvr Ltr Dec 2013