

5400 Glenwood Avenue, Suite 300 Raleigh, North Carolina 27612 tel: 919 787-5620

fax: 919 781-5730

January 14, 2009

1 116 169 6614

Mr. Allen Gaither **Environmental Engineer** North Carolina Department of Environment and Natural Resources **Division of Waste Management** Solid Waste Section 2090 US Highway 70 Swannanoa, NC 28778

Subject:

Buncombe County, North Carolina

Buncombe County Transfer Facility

Permit No. 11-08T

Permit Renewal Application

Dear Mr. Gaither:

On behalf of Buncombe County (County), CDM is pleased to submit two (2) copies of the permit renewal application for the above referenced facility. The permit renewal application includes a revised facility operation plan; the current deed to the property identifying the property as properly deeded for a transfer facility; and financial assurance and responsibility in accordance with G.S. 130.A.295.2. This submittal is intended to satisfy all conditions of Facility Compliance Audit Report received on November 3, 2008.

If you have any questions regarding the details of this submittal, or need any additional information, please contact me at 919-325-3500.

Very truly yours,

Kenton J. Yang, P.E.

Camp Dresser & McKee

cc: E. Mussler, NCDENR SWS

J. Creighton/J. Mears/S. Hunter, BCGSD

J. Wiseman/C. Gabel/M. Brinchek, CDM

RECEIVED

JAN 15 2009

SOLID WASTE SECTION ASHEVILLE REGIONAL OFFICE

Buncombe County, North Carolina

Transfer Facility Permit Renewal Application Buncombe County Transfer Station (Permit No. 11-08T)

January 2009



Permit

Contents

Section 1	Introduction	1-1
1.1	Purpose	1-1
1.2	Facility Location and Zoning	1-1
1.3	Facility Description and Contact	1-1
Section 2	Waste Acceptance Criteria	2-1
2.1	Recyclable Materials	2-1
2.2	Prohibited Wastes	2-1
Section 3	Transfer Station Operations	3-1
3.1	Push Pit Operations	3-1
3.2	Maintenance	3-2
Section 4	Erosion Control Requirements	4-1
Section 5	Drainage Control and Water Protection Requirements	5-1
Section 6	Disease and Vector Control	6-1
Section 7	Sign and Safety Requirements	7-1
7.1	Sign Requirements	
7.2	Open Burning of Waste	
7.3	Fire Protection Equipment	
7.4	Notification of Fire	7- 1
Section 8	Access and Security Requirements	8-1
8.1	Transfer Station Access and Security	8-1
8.2	Attendant	8-1
8.3	Access Road	8-1
Section 9	Closure Cost Estimate	9-1

Appendices

Appendix A City of Asheville Zoning Approval and Property Deed



Section 1 Introduction

1.1 Purpose

This Operation Plan has been prepared in accordance with the North Carolina Solid Waste Rules 15A NCAC 13B .0402, Operational Requirements for Transfer Facilities and addresses pertinent operational requirements outlined in Rule .0505. The Operational Plan consists of the following sections:

- Waste Acceptance Criteria
- Facility Operations
- Erosion Control Requirements
- Drainage Control and Water Protection
- Disease and Vector Control
- Sign and Safety Requirements
- Access and Security Requirements

1.2 Facility Location and Zoning

The Buncombe County Transfer Station site is located between Highway 191 and Hominey Creek within the city limits of Asheville, North Carolina (refer to **Figure 1** for a location map). The transfer station, scale house, and maintenance building reside on 4 acres of the 23-acre property which is zoned as Office/Institutional. The Office/Institutional zoning category includes public facilities such as a solid waste transfer station. A copy of the zoning approval letter from the City of Asheville Planning Department and Property Deed are provided in **Appendix A**. The mailing address for the transfer station is:

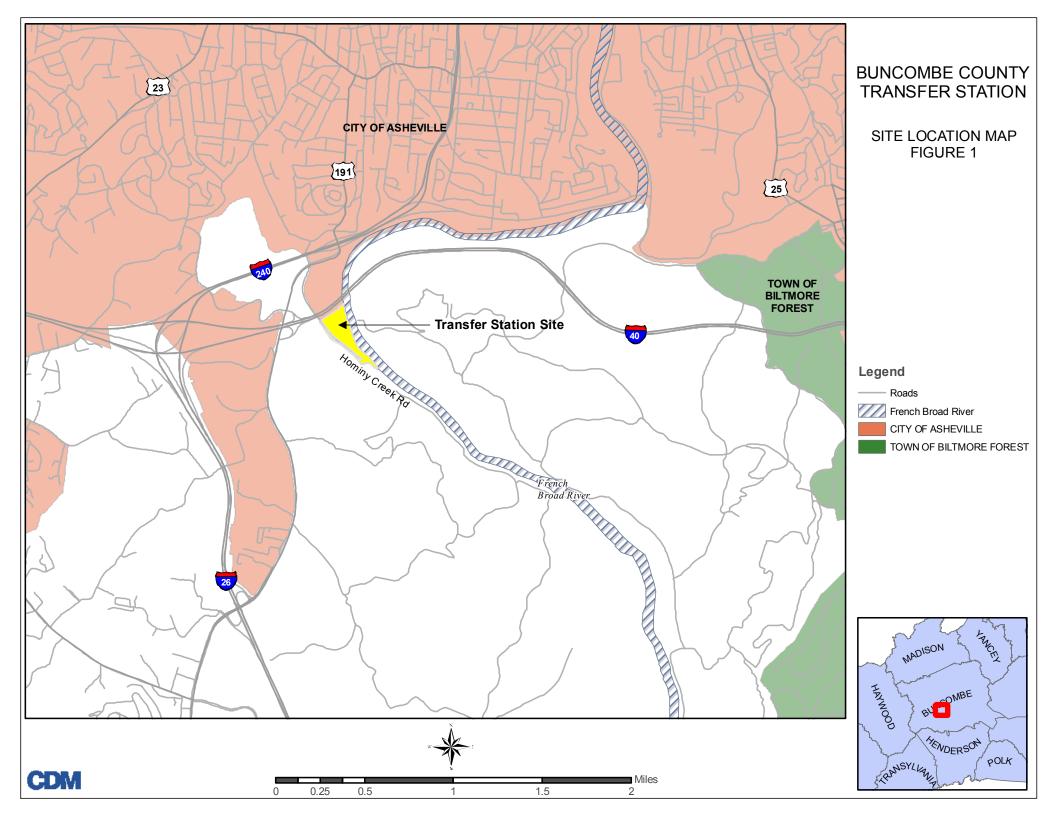
190 Hominy Creek Road Asheville, North Carolina 28806

1.3 Facility Description and Contact

The Buncombe County Transfer Station began as a convenience center in 1982. The station began operation as a transfer station in 1996 but continues to serve as a convenience center for County residents. The site development consists of a transfer station, a maintenance building, a scale house and stone and asphalt roads with concrete approach ramps.

The transfer station was upgraded in 2008 to receive a maximum rate of 300 tons per day. The station currently receives approximately 200 tons of waste per day. The waste is transported to the transfer station by private and City-owned collection vehicles and County residents.





The transfer station utilizes a push pit system with a hydraulic ram for compaction. Wash water from the push pit is collected and discharged to the City's sewer system for treatment at the Metropolitan Sewerage District of Buncombe County Wastewater Treatment Plant. The owner and operator of the transfer station is Buncombe County. The primary contact is:

Mr. Jerry Mears Solid Waste Manager Buncombe County General Services 85 Panther Branch Road Alexander, NC 28801 (828) 645-5311



Section 2 Waste Acceptance Criteria

The Buncombe County Transfer Station shall only accept municipal solid waste (MSW) as defined by the North Carolina General Statutes § 130A-290 (a) (18a).

2.1 Recyclable Materials

The transfer station accepts the following recyclable materials from the users of the convenience center.

- Lead-acid batteries;
- Newspaper and brown paper bags;
- Corrugated cardboard;
- No. 1 and No. 2 plastic;
- Aluminum cans;
- Clear, green and brown glass;
- Steel cans;
- White goods; and
- Scrap metal.

2.2 Prohibited Wastes

The following wastes are prohibited at the Buncombe County Transfer Station:

- Barrels or drums;
- Hazardous waste;
- Containerized or bulk liquid waste;
- Infectious waste;
- Medical waste;
- Animal waste;
- Animal carcasses;
- Radioactive waste;



- Tires;
- Pallets;
- Yard waste;
- Asbestos; and
- Waste originating from a source outside Buncombe County.

A report identifying the waste type and hauler shall be prepared for any attempted delivery of a prohibited waste. The report will be submitted to:

North Carolina Department of Environment and Natural Resources Division of Solid Waste Management, Solid Waste Section 401 Oberlin Road, Suite 150 Raleigh, North Carolina 27602-2091 (919) 508-8400



Section 3 Transfer Station Operations

A sign shall be posted at the entrance to the transfer station identifying the hours of operation. The Buncombe County Transfer Station operating hours are Monday through Friday from 8:00 a.m. to 4:30 p.m. and Saturday from 8:00 a.m. to 3:00 p.m. The transfer station is closed on Sundays, and the following holidays:

- Thanksgiving Day,
- Christmas Day, and
- New Year's Day.

The categories and number of personnel required to operate the transfer station are:

<u>Position</u>	Number of Personnel		
Transfer Station Attendant	1		
Scale House Operator	1		
Transfer Trailer Drivers	6		
Utility Worker	1		

3.1 Push Pit Operations

All vehicles delivering waste to the facility will be directed to the scale house to be weighed. Once vehicles are weighed they will be directed to the approach slab at the transfer station. The Buncombe County Transfer Station has five traffic lanes for accessing the 4,000 square foot operating floor. Four of the five traffic lanes lead directly to the push pit unloading area. The fifth lane provides access to a surge bin which provides additional processing capacity in the event of heavy traffic volumes. The transfer station attendant will direct vehicles to use one of the five lanes. The vehicles will back directly up to the push pit, which is guarded by steel pipe rails. Once the vehicle is in position and the waste has been inspected by the attendant, the waste load is discharged into the push pit. When the push pit becomes full the hydraulic ram is activated to push the waste from the pit to the compactor floor area. Waste unloaded in the surge bin travels directly to the compactor floor area without the use of the hydraulic ram cylinder.

The compactor floor has an operating area of approximately 1,300 square feet and is equipped with two hydraulic compactors. The compactor floor area has two bays for transfer trailer truck access. The transfer trailer trucks back into the compactor floor area and connect to one of the two compactor units. Once the trailer truck is in position, the hydraulic ram loads the waste into the transfer trailer. After the waste is loaded it is transported to the Buncombe County Landfill for disposal.



The push pit and operating floor areas shall be washed down periodically throughout the day and cleared of all waste at the end of each day for a final wash down. The wash down water is collected by four floor drains located within the transfer station. The wash down water drains into the City sewer system for treatment at Metropolitan Sewerage District (MSD) of Buncombe County wastewater treatment plant.

Any windblown trash discovered at the end of an operating day shall be collected and stored in a transfer trailer vehicle or an on-site trash bin.

3.2 Maintenance

General facility maintenance will be performed as required outside of normal operating hours. In the event significant repairs are required, such as hydraulic ram or compactor failure, waste shall be temporarily diverted to the Buncombe County Landfill until the repairs are completed.



Section 4 Erosion Control Requirements

4.1 Erosion Control Requirements

All unpaved areas shall maintain a healthy stand of vegetative cover, to prevent erosion. Stormwater drainage and control is discussed in Section 5.



Section 5 Drainage Control and Water Protection Requirements

In accordance with Rule .0505(7)(b)(c), the Buncombe County Transfer Station shall be operated to contain and properly discharge collected leachate.

The operating floor of the transfer station is sloped away from the push pit area and towards the floor drains. The floor drains collect any leachate generated during operation of the transfer station. The transfer station loading area in the rear of the transfer station building has a perimeter drainage system that collects and contains leachate using grate drains and asphalt containment berms. The leachate from the transfer station floor and loading area is directed to the City sewer for treatment at the Metropolitan Sewerage District (MSD) of Buncombe County wastewater treatment plant.

The push pit shall be emptied and washed down at the end of each operating day.



Section 6 Disease and Vector Control

In accordance with Rule .0505(12)(a), the Buncombe County Transfer Station shall provide effective vector control measures for the protection of human health and the environment. Disease vectors are defined as any rodent, flies, mosquitoes, or other animals, including insects, capable of transmitting disease to humans.

Control of disease vectors shall be maintained by implementation of a daily cleaning program, which involves removal of waste, leachate, and ponded water from the facility operating areas. The complete removal of waste at the end of each operating day will deter vectors from entering the transfer station. The transfer station shall also utilize deodorizers, paint, and wash water to keep the operating floor and push pit area clean and free from rodents, flies, and other vectors. Ponded water shall be prevented to control mosquito breeding. County mosquito control or a licensed exterminator shall be employed as necessary to aid in the control of vectors.



Section 7 Sign and Safety Requirements

7.1 Sign Requirements

In accordance with Rule .0505(9)(a)(b)(c), Buncombe County shall post signage indicating operational procedures, hours of operation, tipping fee, and the permit number. Signage shall be clearly posted stating which wastes are prohibited at the facility. Traffic signs and markers shall be provided as necessary to promote an orderly traffic pattern

7.2 Open Burning of Waste

In accordance with Rule .0505(10)(a), open burning of waste is prohibited at the Buncombe County Transfer Station.

7.3 Fire Protection Equipment

In accordance with Rule .0505(10)(b), equipment shall be provided to control accidental fires and arrangements shall be made with the local fire protection agency to immediately provide fire-fighting services when needed. The transfer station and maintenance building areas shall be equipped with an appropriate number of fire extinguishers and fire hydrants to effectively control accidental fires. The transfer station is inspected annually by the fire marshal for compliance.

7.4 Notification of Fire

In accordance with Rule .0505(10)(c), fires that occur at the Buncombe County Transfer Station require verbal notice to the Division of Solid Waste within 24 hours and written notification shall be submitted within 15 days. Verbal and written notification shall be submitted to the Asheville Regional Office:

North Carolina Department of Environment and Natural Resources Asheville Regional Office 2090 US Highway 70 Swannanoa, North Carolina 28778 (828) 296-4500



Section 8 Access and Security Requirements

8.1 Transfer Station Access and Security

In accordance with Rule .0505(8)(a), the transfer station is secured by means of gates and fences to prevent unauthorized entry. All vehicles delivering waste to the transfer station are required to enter and exit through the primary access control gate. Unauthorized vehicle access to the facility is prevented around the remaining portion of the transfer station and maintenance building by a six-foot-high chain link fence.

8.2 Attendant

In accordance with Rule .0505(8)(b), the Buncombe County Transfer Station shall have a full-time Scale Operator located in the scale house during operating hours. In addition, a Transfer Station Attendant will be at the facility at all times during operating hours. Both the Scale Operator and Transfer Station Attendant are responsible for verifying that all vehicles comply with the permitted operational requirements.

8.3 Access Road

In accordance with Rule .0505(8)(C), the access road for the Buncombe County Transfer Station shall be constructed of a rolled stone surface and maintained in good condition. Potholes, ruts, and debris on the roads shall receive immediate attention in order to avoid damage to vehicles. Access roads will be regraded as necessary to maintain proper drainage.



Section 9 Closure Cost Estimate

Table 9-1 provides a closure cost estimate for the Buncombe County Transfer Station for clean-up and removal of one week of accumulated waste material. The cost estimate will be used to demonstrate financial responsibility in accordance with N.C.G.S. 130.A.295.2.

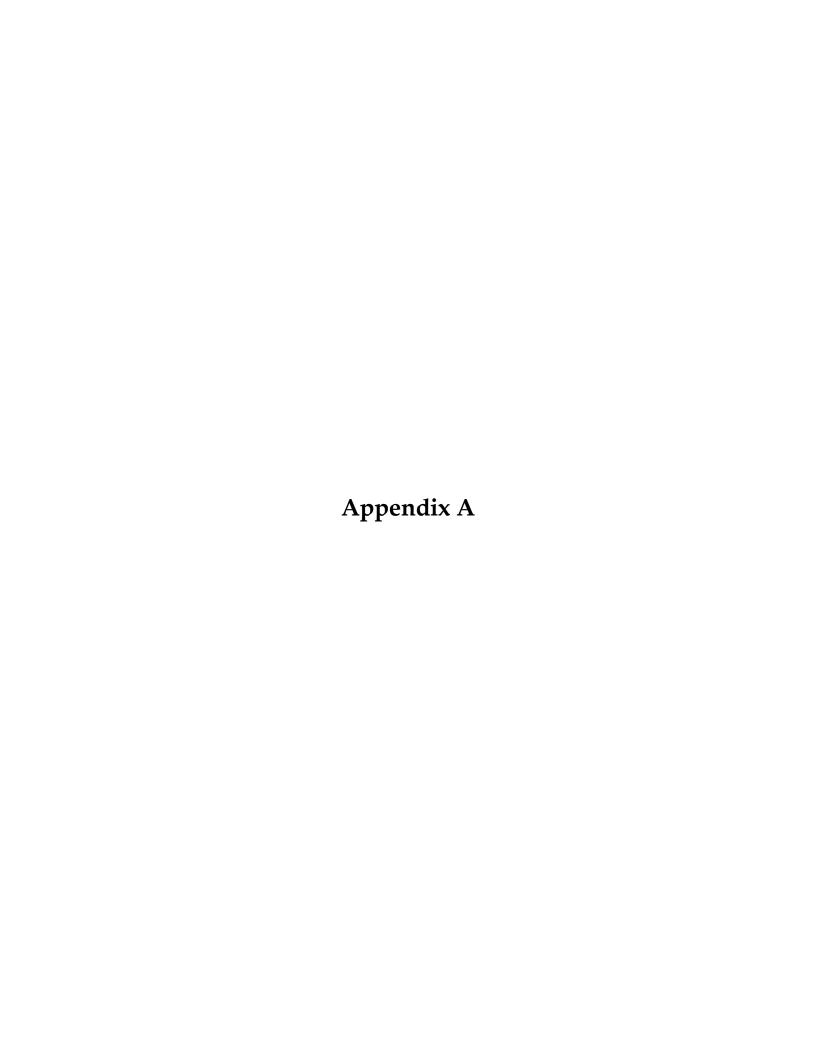


Table 9-1
Closure Cost Estimate
Buncombe County Transfer Station (Permit No. 11-08T)
Buncombe County, North Carolina
January-09

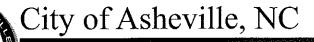
	Quantity	Unit	Cost	Total
Mobilization and Demobilization of Equipment (Front End Loader, Cleaning Equipment Etc.)	1	LS	\$10,000.00	\$10,000
Waste Removal and Hauling ¹	1,800	tons	\$20.00	\$36,000
Waste Disposal @ Buncombe County Landfill ¹	1,800	tons	\$38.00	\$68,400
Transfer Station Cleaning	80	hours	\$25.00	\$2,000
Solids Removal from Sewer	1	LS	\$100.00	\$100
Leachate Disposal from Cleaning	1000	gallons	\$0.05	\$50
Subtotal				\$116,550
Contingency - (15% of Subtotal)				\$17,483
Administration - (5% of Subtotal)				\$5,828

TOTAL \$139,860

^{1.} The total tonnage estimate was taken from the maximum daily disposal rate (300 tons/day) multiplied by the number of operational days per week (6 days).



City of Asheville Zoning Approval



Planning and Development

December 5, 2008

Mr. Jerry Mears, Solid Waste Manager Buncombe County Solid Waste 81 Panther Branch Road Alexander, NC 28701

Dear Mr. Mears,

This is to advise that the property identified as 9637.01-16-5732 in the Buncombe County tax record is zoned Institutional District (INST) and has been so zoned since 1997 when the City's current zoning was adopted. Prior to 1997, the zoning classification was Office-Institutional District (OI). The use type known as "public facility" and defined as "any structure or land use belonging to the public, purchased or constructed at public expense, maintained at public expense, being under public control and opened to the public or the community at large or being used by a specific governmental or quasigovernmental agency or body whose purpose pertains to or who is engaged in the affairs of providing services to the general public or the community" was a permitted use in the Office-Institutional District at that time. The change in zoning that occurred in 1997 rendered the existing Solid Waste Transfer Station "non-conforming" since the current Institutional zoning district does not allow for this use. We consider this development to be a legal but non-conforming use. As such, the Buncombe County Solid Waste Transfer Station may continue to operate in its present form, but may not be expanded or enlarged in any fashion that increases the extent of nonconformity.

I have enclosed a copy of the Office-Institutional zoning district description and public facility definition from the earlier zoning ordinance for your records. Please feel free to contact me if you have any questions.

Thank you,

Jennifer Blevins

Development Review Specialist

Enclosures

Nightclub. Any building or structure used as a commercial establishment or facility for the retail sale or service of all alcoholic beverages either for on-premises or off-premises consumption or both and which may or may not provide live entertainment. This definition shall be interpreted to include cocktail lounges, bars, cabarets and similar retail businesses which are not part of or provided as an ancillary service of a bona fide restaurant, hotel, motel, inn or similar facility.

Nonconforming use. A use of land, building, or structure existing at the time of the passage of this Ordinance 322, or an amendment thereto, which does not conform to the regulations for the district in which it is located.

Parking space, handicapped. For the purpose of this ordinance, an offstreet handicapped parking space shall be a minimum of 12' 6" wide and shall be located pursuant to section 30-3-11 of this ordinance.

Parking space, offstreet. For the purpose of this ordinance, an offstreet parking space shall consist of a space adequate for parking an automobile with room for opening doors on both sides and shall be a minimum of nine feet wide and 20 feet long.

Private club. When operated in a residential zone, the term "private club" shall pertain to and include associations and organizations of a fraternal or social character or which are maintained in connection with a golf course or country club, and shall not include nightclubs, cocktail lounges, discos or other such institutions operated as a business. Such organizations and associations must be organized under the laws of the State of North Carolina as a nonprofit corporation. When operated in a commercial or industrial zone the term "private club" may apply to a fraternal or social organization which restricts its memberships, is operated as a business and may or may not offer for sale alcoholic beverages.

Public facility. Any structure or land use belonging to the public, purchased or constructed at public expense, maintained at public expense, being under public control and opened to the public or the community at large or being used by a specific governmental or quasigovernmental agency

or body whose purpose pertains to or who is engaged in the affairs or providing services to the general public or the community.

Public utility. Any structure or facility transmitting a service provided by a utility company (to include private systems) such as telephone, electric, water and sewer, gas, power, etc.

Restaurant. Any public place kept, used, maintained, advertised and held out to the public as a place where meals are served and where meals are actually served regularly, such space being provided with adequate and sanitary kitchen and dining room equipment and capacity and having employed therein a sufficient number and kind of employees to prepare, cook and serve suitable food for its guests.

Retail package beverage store. Vendor of alcoholic beverages at retail in sealed containers for consumption off the premises only.

Roominghouse. A building other than a hotel, in which lodging is furnished for compensation.

School. A public or private educational institution offering students a conventional academic curriculum including kindergartens, elementary schools, high schools, colleges and universities.

Self-service storage facility. A facility consisting of a building or group of buildings in a controlled-access compound that contains varying sizes of individual, compartmentalized, and controlled-access stalls or lockers, not exceeding 800 square feet per unit, for the dead storage of customers' residential and/or commercial goods and wares, which may include one office or residential unit for use by the facility manager and/or security personnel.

Sign. Any structure or part thereof or device attached thereto or painted, or represented thereon, which shall be used to attract attention to any object, product, place, activity, person, institution, organization, or business, or which shall display or include any letter, word, model, banner, flag, pennant, insignia, device or representation used as, or which is in the nature of an announcement, direction or advertisement.

Sign, advertising. A sign which directs attention to a business, commodity, industry or other

- Building line. In no case shall the building line be located closer than 35 feet to the centerline of the existing right-of-way.
- 2. Parking requirements. Parking requirements shall not apply in the central business district.
- 3. Canopies as ancillary structures for service stations, garages, and convenience stores. Setback shall be no less than 20 feet from the curbline or edge of the pavement to line intersecting the outer edge of the canopy overhang. Height of said canopy shall be no greater than 20 feet as measured from the ground level at the base of the canopy structure to the top of the highest portion of the canopy structure.

(Ord. No. 1846, 8-28-90)

Sec. 30-5-12. OI office-institutional district:

The office-institutional district is established as a district in which the principal use of land is for hospitals, schools, and residential, together with facilities and services primarily designed to serve the occupants, patients, students, and visitors to the area. The use of land and buildings within this district for residential purposes is designed to permit a density ranging up to 32 dwelling units per acre, based on a flexible floor area formula.

A. Uses permitted. All land and structural uses corresponding to the following general categories:

Public schools, elementary, high and educational institutions having a curriculum the same as ordinarily given in public schools.

Hospitals, except animal hospitals.

Churches, cemeteries.

Public and private parks, playgrounds.

Catering establishments.

Colleges, business colleges, trade schools, music conservatories, dancing schools, and similar organizations.

Residences, hotels, and motels.

Condominiums.

Convalescent and nursing homes and homes for the aged.

Day nurseries and kindergartens (state licensed).

Fraternal and philanthropic organizations subject to the following conditions:

- (1) The minimum lot size shall be no less than the nonresidential lot size of this zone;
- (2) Adequate offstreet parking (one space for each 100 square feet of gross floor space);

(3) Adequate buffering;

- (4) External lighting should be covered to illuminate the building and parking lot only; and
- (5) Any external sign should not exceed eight square feet and should be mounted on the building.

Libraries, museums, art galleries, and community centers.

Medical clinics, dispensing of eyeglasses and optical goods, and optician's medical laboratories.

Radio and television studios.

Lodges and social organizations.

Professional, service, executive, governmental, and administrative offices.

Dancing and music studios of artists and tutors.

Charitable organizations.

Cafeterias, gift or variety shops, soda bars, barbershops and beauty shops.

Convents and monasteries, housing for religious communities, religious assemblies and similar religious or nonprofit

Drugstores, florist shops, medical supplies and equipment, filling stations.

Public utilities, transmission lines, and utility substations (subject to the conditions of the group development review provided for in this ordinance).

Restaurants when located on a lot not abutting any residential district in the surrounding area or having ingress or egress from a residential street.

Public facilities.

Property Deed

BK 1 2 3 OPG 5 8 1

REGISSTEREDO -

1997100/99 PRM 44083

	Carbon D Graff
Excise Tax	Recording Time, Book and Page
Tax Lot No.	Parcel Identifier No.
. Verified by County on	the day of 19
by	
	., Attorneys at law Building, Asheville, N. C. 28801
This instrument was prepared by Wm. Michael Begley	
Brief description for the Index 22.05 acres, P.B.	<u>46</u> , ^{Pg} . 83
NORTH CAROLINA NO	ON-WARRANTY DEED
THIS DEED made this 27th day of September	, 19.79, by and between
GRANTOR	GRANTEE
ASTON PARK HOSPITAL, INC., a N. C. Corporation	COUNTY OF BUNCOMBE
*	
· · · · · · · · · · · · · · · · · · ·	
Enter in appropriate block for each party: name, address, and, if appro	priate, character of entity, e.q. corporation or partnership,
The designation Grantor and Grantee as used herein shall in shall include singular, plural, masculine, feminine or neuter	as required by context,
WITNESSETH, that the Grantor, for a valuable considerati acknowledged, has and by these presents does grant, bargain	, sell and convey unto the Grantee in fee simple, all that
certain lot or parcel of land situated in the City of Ash Buncombe County, North Carolina and more p	
Being all of that 22.05 acres, more or less, as of Buncombe duly recorded in the Office of the R in Plat Book 46° at Page 83° , reference to whill ar metes and bounds description of the property	shown on a plat of the property of the County egister of Deeds for Buncambe County, N. C., ch said plat is hereby made for a more particu-
Together with the use of a 60 foot road right of for purposes of ingress, egress and regress for	way as shown on the above referenced plat the subject property.
	The state of the s

N.C. Bar Assoc. Form No. 7 & 1977

The property hereinabove described was acquired by Grantor by instrument recorded in the Bunconbe County, N. C.
Registry in Deed Book 963, Page 47.
A map showing the above described property is recorded in Plat Book
Aston Park Hospital, Inc. (Corporate Name) By: Ullull / World H I(SEAL) ATTEST: (SEAL) ACTION Secretary (Corporate Seal)
ATTEST; (SEAL)
NORTH CAROLINA. NORTH CAROLINA. SEAL SEARCE NORTH CAROLINA. Oranior, personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hund and efficial stamp or seal, this day of
The foregoing Certificate(s) of Eula_la_ Fullbright
is/see certified to be correct. This instrument and this certificate are duly registered at the date and time and in the Book and Page shown on the first page Procest. By D. Gapa, J. William County Deposity Assistant-Register of Deeds. N.C. Har Assoc. Porm No. 7 © 1917