



Agenda

Greenville City Council

April 8, 2010
7:00 PM
City Council Chambers
200 West Fifth Street

Assistive listening devices are available upon request for meetings held in the Council Chambers. If an interpreter is needed for deaf or hearing impaired citizens, please call 252-329-4422 (voice) or 252-329-4060 (TDD) no later than two business days prior to the meeting.

I. Call Meeting To Order

II. Invocation - Council Member Blackburn

III. Pledge of Allegiance

IV. Roll Call

V. Approval of Agenda

VI. Special Recognitions

- Eppes Memorial Public Art Project - Pitt County Arts Council and Eppes Alumni Association

VII. Appointments

1. Appointments to Boards and Commissions

VIII. New Business

Public Hearings

2. Ordinance requested by Edwards Communities Development Co., LLC to rezone 0.25 acres located at the southeast corner of the intersection of Lawrence and 11th Streets from OR (Office-Residential [High Density Multi-family]) to OR-UC (Office-Residential [High Density Multi-family]) with an urban core overlay
3. Ordinance requested by Adrian Wike to rezone 5.46 acres located at the northeast corner of the intersection of Belvoir Highway and Sunnybrook Road from RA20 (Residential-Agricultural) and

CG (General Commercial) to CH (Heavy Commercial)

4. Ordinance requested by the Redevelopment Commission of Greenville to rezone 0.59 acres located between Vance and Contentnea Streets and north of West 5th Street from CDF (Downtown Commercial Fringe) and R6 (Residential [High Density Multi-family]) to OR (Office-Residential [High Density Multi-family])
5. Ordinance requested by the Community Development Department to amend the zoning regulations to include additional Land Use Intensity (LUI) special use permit application submission standards, required findings, and Planning and Zoning Commission consideration criteria
6. Ordinance requested by the Community Development Department to amend various zoning ordinance provisions to include screening, safety barrier, and dwelling unit separation standards for recycling centers and compactors for both multi-family residential and nonresidential development
7. Ordinance to annex Fox Chase, Section 2, Lot 32, involving 0.756 acres located east of Fox Chase Lane, south of Charleston Village, Section 1, Phase 2, and Charleston Village, Section 2, Phase 2, and bounded on the south, east, and west by Fox Chase, Section 2
8. Updates to the City of Greenville's Manual of Standard Designs and Details
9. Annual Action Plan for HOME Investment Partnership and Community Development Block Grant Programs

Public Comment Period

- The Public Comment Period is a period reserved for comments by the public. Items that were the subject of a public hearing at this meeting shall not be discussed. A total of 30 minutes is allocated with each individual being allowed no more than 3 minutes. Individuals who registered with the City Clerk to speak will speak in the order registered until the allocated 30 minutes expires. If time remains after all persons who registered have spoken, individuals who did not register will have an opportunity to speak until the allocated 30 minutes expires.

Other Items of Business

10. Community Development Block Grant program subrecipient funding for 2010-2011
11. Ordinance amending Chapter 3 of Title 6 (Solid Waste Collection) of the City Code requiring recycling centers at multi-family dwellings
12. Ordinance amending Chapter 3 of Title 6 (Solid Waste Collection) of the City Code to allow the use of compactors at multi-family dwellings
13. Ordinance amending Section 6-3-4 of the City Code relating to solid waste receptacles

14. Resolutions establishing state legislative initiatives

IX. Comments from Mayor and City Council

X. City Manager's Report

XI. Adjournment



City of Greenville, North Carolina

Meeting Date: 4/8/2010
Time: 7:00 PM

Title of Item: Appointments to Boards and Commissions

Explanation: City Council appointments or reappointments need to be made to the Board of Adjustment, Community Appearance Commission, Environmental Advisory Commission, Greenville Bicycle and Pedestrian Commission, Historic Preservation Commission, Human Relations Council, and Public Transportation and Parking Commission.

Fiscal Note: No fiscal impact.

Recommendation: To make appointments or reappointments to the Board of Adjustment, Community Appearance Commission, Environmental Advisory Commission, Greenville Bicycle and Pedestrian Commission, Historic Preservation Commission, Human Relations Council, and Public Transportation and Parking Commission.

Viewing Attachments Requires Adobe Acrobat. [Click here](#) to download.

Attachments / click to download

[Appointments To Boards and Commissions City Council Meetings Agenda Deadline Material 138519](#)

Appointments to Boards and Commissions

April 8, 2010

Board of Adjustment

Council Liaison: Council Member Marion Blackburn

Name	Current Term	Reappointment Status	Expiration Date
Susan Bailey (Alternate Member)	Filling unexpired term	Resigned	June 2010

Community Appearance Commission

Council Liaison: Council Member Kandie Smith

Name	Current Term	Reappointment Status	Expiration Date
Myron Caspar	Filling unexpired term	Eligible	April 2010
Dana Coles	First term	Eligible	April 2010
Perry Kachroo	First term	Eligible	April 2010
Noria Namaz	Second term	Ineligible	April 2010

Environmental Advisory Commission

Council Liaison: Council Member Marion Blackburn

Name	Current Term	Reappointment Status	Expiration Date
Jessica Christie (3)	Second term	Ineligible	April 2010
James Kenny (7)	Second term	Ineligible	April 2010

(3) A member of a local environmental group

(7) An at-large member from the Greenville community with skills and interest in environmental health, safety, and/or medicine

Greenville Bicycle and Pedestrian Commission

Council Liaison: Council Member Calvin Mercer

Name	Current Term	Reappointment Status	Expiration Date
Matthew Rosenbaum	Initial term	Resigned	January 2013

Historic Preservation Commission

Council Liaison: Council Member Calvin Mercer

<u>Name</u>	<u>Current Term</u>	<u>Reappointment Status</u>	<u>Expiration Date</u>
Minnie Anderson	Filling unexpired term	Resigned	January 2011

Human Relations Council

Council Liaison: Council Member Max Joyner, Jr.

Regular Members

<u>Name</u>	<u>Current Term</u>	<u>Reappointment Status</u>	<u>Expiration Date</u>
James Cox	Second term	Resigned	September 2010
Franchine Pena	Second term	Ineligible	September 2009
Shane Martin	Filling unexpired term	Moved out-of-state	September 2011

Student Representative from Higher Educational Institution (Pitt Community College)

<u>Name</u>	<u>Current Term</u>	<u>Reappointment Status</u>	<u>Expiration Date</u>
Keisha Staton	Third term	Resigned	October 2009

Public Transportation and Parking Commission

Council Liaison: Council Member Kandie Smith

<u>Name</u>	<u>Current Term</u>	<u>Reappointment Status</u>	<u>Expiration Date</u>
Michael Glenn	First term	Resigned	January 2011

Applicants for Board of Adjustment

Valerie Guess 3915 Sterling Pointe Drive Winterville, NC 28590	227-4991	Application District: #5	6/9/2009
Jeremy Jordan 707 West 4th Street Greenville, NC 27834	341-3066	Application District: #1	6/25/2009
Justin Mullarkey 1509 East 5th Street Greenville, NC 27858	364-1183	Application District: #3	6/10/2009
Deryck Steven Wilson 1203 Franklin Drive Greenville, NC 27858	714-5950	Application District: #5	11/7/2008

Applicants for Community Appearance Commission

Valerie Guess 3915 Sterling Pointe Drive Winterville, NC 28590	227-4991	Application Date: 6/9/2009 District: #5
Jeffrey Johnson 2008 Pinecrest Drive Greenville, NC 27858	355-0644	Application Date: 2/12/2009 District: #4
Jeremy Jordan 707 West 4th Street Greenville, NC 27834	341-3066	Application Date: 6/25/2009 District: #1
Justin Mullarkey 1509 East 5th Street Greenville, NC 27858	364-1183	Application Date: 6/10/2009 District: #3
Ray M. Spears 3609 Prestwick Place Greenville, NC 27834	364-2565	Application Date: 9/18/2009 District: #1
Wayne M. Whipple 3102 Cleere Court Greenville, NC 27858	321-0611	Application Date: 3/9/2009 District: #4

Applicants for Environmental Advisory Commission

Ann Eleanor 102 Lindenwood Drive Greenville, NC 27834	848-4257	Application Date: 2/10/2009 District: 5 Occupation: Retired
Valerie Guess 3915 Sterling Pointe Drive Winterville, NC 278590	227-4991	Application Date: 6/9/2009 District: 5 Occupation: Retired US Army Veteran
James Holley 1906 Fairview Way Greenville, NC 27858	215-0065	Application Date: 10/18/2009 District: 4 Occupation: Hydrogeologist

Applicants for Greenville Bicycle and Pedestrian Commission

Gunnar Swanson
1901 East Sixth Street
Greenville, NC 27858

754-1980

Application Date: 3/16/2010
District: #3

Applicants for Historic Preservation Commission

Emily Carter
113 Avon Lane
Greenville, NC 27858

919-356-6687

Application Date: 1/15/2010
District: #4

Applicants for Human Relations Council

Regular Member Candidates:

Gloria Brewington-Person 1005 Cortland Road Greenville, NC 27834	321-3227	Application Date: 10/1/2009 District: #2
Brian Brown 2237 Penncross Drive Greenville, NC 27834	367-5831	Application Date: 9/11/2009 District: #5
Emily Carter 113 Avon Lane Greenville, NC 27858	919-356-6687	Application Date: 1/15/2010 District: #4
Ronnie Christian 2608 Mulberry Lane Greenville, NC 27858	561-5405	Application Date: 7/2/2008 District: #5
Ann Eleanor 102 Lindenwood Drive Greenville, NC 27834	848-4257	Application Date: 2/10/2009 District: #5
Corey Rhodes 3911 Sterling Pointe Drive, #006 Winterville, NC 28590	916-4523	Application Date: 2/11/2009 District: #5

Student Member Candidates from Higher Educational Institutions: NONE

Applicants for Public Transportation and Parking Commission

Richard Malloy Barnes
208 South Elm Street, Apt. N
Greenville, NC 27858

752-5278

Application Date: 3/23/2009
District: #3

Mary Fedash
3223 Meeting Place
Greenville, NC 27858

jmfedash@suddenlink.net

Application Date: 10/20/2008
District: #4



City of Greenville, North Carolina

Meeting Date: 4/8/2010
Time: 7:00 PM

Title of Item: Ordinance requested by Edwards Communities Development Co., LLC to rezone 0.25 acres located at the southeast corner of the intersection of Lawrence and 11th Streets from OR (Office-Residential [High Density Multi-family]) to OR-UC (Office-Residential [High Density Multi-family]) with an urban core overlay

Explanation:

Required Notice:

Planning and Zoning Commission meeting notice (property owner(s) and adjoining property owners' letters) mailed on March 2, 2010.

On-site signs(s) posted on March 2, 2010.

City Council public hearing notice (property owner(s) and adjoining property owners' letters) mailed on March 23, 2010.

Public hearing advertisement published on March 29 and April 5, 2010.

Comprehensive Plan:

The subject property is located in Vision Area I.

Charles Boulevard is a "gateway corridor" from its beginning at East 10th Street and continuing south. Gateway corridors serve as primary entrance ways into the City and help define community character. These corridors are also designed to carry large volumes of high-speed traffic.

The Future Land Use Plan Map recommends commercial (C) at the northeast corner of the intersection of Charles Boulevard and East 14th Street with office/institutional/multi-family (OIMF) in the interior areas.

There is an intermediate focus area located at the intersection of Charles Boulevard and 14th Street. These nodes typically contain between 50,000-150,000 square feet of conditioned floor space.

The subject property is located within the designated UC (urban core) overlay area boundary. If the site is rezoned to OR-UC, future multi-family

development shall be subject to reduced street setbacks, reduced street bufferyards and reduced dwelling unit to parking space separation requirements at the option of the owner/developer.

Thoroughfare/Traffic Volume Report Summary (PWD - Engineering Division):

The proposed rezoning will have no change in maximum allowable density; therefore, a traffic analysis was not performed.

History/Background:

The subject tract was zoned O&I (office-multi-family) on the 1969 series zoning map.

The designated UC (urban core) overlay boundary and ordinance standards were adopted on March 4, 2010. If the site is rezoned to OR-UC, future multi-family development shall be subject to reduced street setbacks, reduced street bufferyards and reduced dwelling unit to parking space separation requirements at the option of the owner/developer.

Present Land Use:

Currently, the Real Crisis Intervention office is located on the site.

Water/Sewer:

Water and sanitary sewer are located in right-of-way of 11th Street.

Historic Sites:

There is no known effect on historic sites

Environmental Conditions/Constraints:

There are no known environmental constraints.

Surrounding Land Uses and Zoning:

North: OR - Wistful Vista Apartments
South: OR - Green Mill Run Apartments
East: OR - Green Mill Run Apartments
West: OR - Greek Housing

Density Estimates:

Both the existing and proposed zoning allow the same maximum number of units (up to 17 multi-family units per acre). The UC (urban core) overlay does not affect density.

Fiscal Note: No cost to the City.

Recommendation: In staff's opinion, the request is in compliance with Horizon's: Greenville's Community Plan and the Future Land Use Plan Map.

"In compliance with the comprehensive plan" should be construed as meaning the requested rezoning is (i) either specifically recommended in the text of the Horizons Plan (or addendum to the plan) or is predominantly or completely surrounded by the same or compatible and desirable zoning and (ii) promotes the desired urban form. The requested district is considered desirable and in the public interest and staff recommends approval of the requested rezoning.

The Planning and Zoning Commission voted to approve the request at its March 16, 2010, meeting.

Note: In addition to other criteria, the Planning and Zoning Commission and City Council shall consider the entire range of permitted and special uses for the existing and proposed districts as listed under Title 9, Chapter 4, Article D of the Greenville City Code.

If City Council determines to approve the request, a motion to adopt the attached rezoning ordinance will accomplish this. The ordinance includes the statutorily required statement describing whether the action taken is consistent with the comprehensive plan and explaining why Council considers the action taken to be reasonable and in the public interest.

If City Council determines to deny the rezoning request, in order to comply with this statutory requirement, it is recommended that the motion be as follows: Motion to deny the proposed amendment and to make a finding and determination that, although the rezoning request is consistent with the comprehensive plan, there is a more appropriate zoning classification and therefore, denial is reasonable and in the public interest.

Viewing Attachments Requires Adobe Acrobat. [Click here](#) to download.

Attachments / click to download

[Location Map](#)

[Survey](#)

[Bufferyard and Vegetation Chart](#)

[Ordinance Edwards Communities 858955](#)

[Excerpt from March 16 2010 P Z Minutes for Edwards Communities Development Co. 860088](#)

[List of Uses OR 687929](#)

[Urban Core ordinance explanation 853325](#)

ORDINANCE NO. 10-
AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF GREENVILLE
REZONING TERRITORY LOCATED WITHIN THE PLANNING AND ZONING
JURISDICTION OF THE CITY OF GREENVILLE, NORTH CAROLINA

WHEREAS, the City Council of the City of Greenville, North Carolina, in accordance with Article 19, Chapter 160A, of the General Statutes of North Carolina, caused a public notice to be given and published once a week for two successive weeks in The Daily Reflector setting forth that the City Council would, on April 8, 2010, at 7:00 p.m., in the City Council Chambers of City Hall in the City of Greenville, NC, conduct a public hearing on the adoption of an ordinance rezoning the following described territory;

WHEREAS, the City Council has been informed of and has considered all of the permitted and special uses of the districts under consideration; and,

WHEREAS, in accordance with the provisions of North Carolina General Statute 160A-383, the City Council does hereby find and determine that the adoption of the ordinance rezoning the following described property is consistent with the adopted comprehensive plan and that the adoption of the ordinance rezoning the following described property is reasonable and in the public interest due to its consistency with the comprehensive plan and, as a result, its furtherance of the goals and objectives of the comprehensive plan.

THE CITY COUNCIL OF THE CITY OF GREENVILLE, NORTH CAROLINA, DOES HEREBY ORDAIN:

Section 1. That the following described territory is rezoned from OR (Office-Residential) to OR-UC (Office-Residential) with an Urban Core Overlay.

TO WIT: William S. Corbitt, Jr. & Herbert M. Wilkerson, Etal Property.

LOCATION: Located at the southeast corner of the intersection of Lawrence and 11th Streets.

DESCRIPTION:

All that certain tract or parcel of land lying and being situated in the City of Greenville, Greenville Township, Pitt County, North Carolina and being described by metes and bounds as follows:

Beginning at a point where the easterly right-of-way of Lawrence Street intersects with the southerly right-of-way of Eleventh Street; thence from the **POINT OF BEGINNING** with the southerly right-of-way of Eleventh Street S 78°56'57" E, 75.00 feet to a point; thence leaving the southerly right-of-way of Eleventh Street and running with the common line of Green Mill Run, LLC property recorded in Deed Book 1650, Page 820 S 10°55'28" W, 145.18 feet to a point; thence cornering and continuing with the common line of the Green Mill Run, LLC property N 78°40'51" W, 75.32 feet to a point in the easterly right-of-way of Lawrence Street; thence

cornering with the easterly right-of-way of Lawrence Street N 11°02'56" E, 144.83 feet to a point to the **POINT OF BEGINNING**, containing 0.25 acres more or less and being that property owned by William S. Corbitt, Jr. & Herbert M. Wilkerson, ETAL identified as Pitt County Parcel Number 19412 being shown on a Rezoning Map prepared for Edwards Communities Development Company by Rivers and Associates, Inc, drawing Z-2521-2, dated February 2nd 2010, which by reference is made a part hereof.

Section 2. That the Director of Community Development is directed to amend the zoning map of the City of Greenville in accordance with this ordinance.

Section 3. That all ordinances and clauses of ordinances in conflict with this ordinance are hereby repealed.

Section 4. That this ordinance shall become effective upon its adoption.

ADOPTED this 8th day of April, 2010.

Patricia C. Dunn, Mayor

ATTEST:

Wanda T. Elks, City Clerk

858955

Excerpt from the draft Planning and Zoning Commission meeting minutes (3/16/10):

REQUEST BY EDWARDS COMMUNITIES DEVELOPMENT CO., LLC - APPROVED

Ordinance requested by Edwards Communities Development Co., LLC to rezone 0.25 acres located at the southeast corner of the intersection of Lawrence and 11th Streets from OR (Office-Residential [High Density Multi-family]) to OR-UC (Office-Residential [High Density Multi-family]) with an urban core overlay.

Ms. Chantae Gooby stated this rezoning is centrally located in the city. She said the areas surrounding this property were just rezoned to OR-UC by City Council recently. The property is currently zoned office and multi-family and the requested rezoning is to add an urban core overlay, which does not affect density. Ms. Gooby said the property currently contains the Real Crisis Center Intervention office. The area contains a variety of uses – mostly multi-family. The property is not impacted by the floodway or floodplain. There is an intermediate focus area located at the intersection of 14th Street and Charles Boulevard. Due to the size of the property, no traffic report was generated. There is similar zoning in this area. The Future Land Use Plan Map recommends office and multi-family in the area. In staff's opinion, this request is in compliance with Horizon's: Greenville's Community Plan and the Future Land Use Plan Map.

Mr. Ramey asked if this property was left out of the first rezoning.

Ms. Gooby said it was not part of the plan at that time of the first rezoning.

Mr. Tommy Stoughton spoke in favor of the request on behalf of the applicant. He said the applicant felt the need to have this extra property to allow more flexibility to meet the concerns of the Rock Springs residents.

No one spoke in opposition.

Motion was made by Mr. Bell, seconded by Mr. Parker to recommend approval of the proposed amendment, to advise that it is consistent with the comprehensive plan and other applicable plans and to adopt the staff report which addresses plan consistency and other matters. All but Ms. Basnight voted in favor. Motion passed.

PERMITTED AND SPECIAL USES FOR THE OR DISTRICT

OR (Office-Residential)

Permitted Uses

(1) General:

- a. Accessory use or building
- b. Internal service facilities
- c. On- premise signs per Article N
- f. Retail sales incidental

(2) Residential:

- b. Two-family attached dwelling (duplex)
- c. Multi-family development per Article 1
- k. Family care home (see also section 9-4-103)
- n. Retirement center or home
- o. Nursing, convalescent center or maternity home; major care facility
- p. Board or rooming house
- q. Room renting

(3) Home Occupations (see all categories):

*None

(4) Governmental:

- b. City of Greenville municipal government building or use (see also section 9-4-103)
- c. County or state government building or use not otherwise listed; excluding outside storage and major or minor repair
- d. Federal government building or use

(5) Agricultural/ Mining:

- a. Farming; agriculture, horticulture, forestry (see also section 9-4-103)

(6) Recreational/ Entertainment:

- f. Public park or recreational facility
- g. Private noncommercial park or recreation facility

(7) Office/ Financial/ Medical:

- a. Office; professional and business, not otherwise listed
- b. Operational/processing center
- c. Office; customer service not otherwise listed, including accessory service delivery vehicle parking and indoor storage
- d. Bank, savings and loan or other savings or investment institutions
- e. Medical, dental, ophthalmology or similar clinic, not otherwise listed

(8) Services:

- c. Funeral home
- e. Barber or beauty shop
- f. Manicure, pedicure, or facial salon
- g. School; junior and senior high (see also section 9-4-103)
- h. School; elementary (see also section 9-4-103)
- i. School; kindergarten or nursery (see also section 9-4-103)
- j. College or other institutions of higher learning
- k. Business or trade school
- n. Auditorium
- o. Church or place of worship (see also section 9-4-103)

- p. Library
- q. Museum
- r. Art Gallery
- u. Art studio including art and supply sales
- v. Photography studio including photo and supply sales
- w. Recording studio
- x. Dance studio
- bb. Civic organizations
- cc. Trade or business organizations

(9) Repair:

* None

(10) Retail Trade:

- s. Book or card store, news stand
- w. Florist

(11) Wholesale/ Rental/ Vehicle- Mobile Home Trade:

* None

(12) Construction:

- a. Licensed contractor; general, electrical, plumbing, mechanical, etc. excluding outside storage
- c. Construction office; temporary, including modular office (see also section 9-4-103)

(13) Transportation:

* None

(14) Manufacturing/ Warehousing:

* None

(15) Other Activities (not otherwise listed - all categories):

* None

OR (Office-Residential)

Special Uses

(1) General:

* None

(2) Residential:

- d. Land use intensity multifamily (LUI) development rating 50 per Article K
- e. Land use intensity dormitory (LUI) development rating 67 per Article K
- i. Residential quarters for resident manager, supervisor or caretaker; excluding mobile home
- o.(1). Nursing, convalescent center or maternity home; minor care facility
- r. Fraternity or sorority house

(3) Home Occupations (see all categories):

* None

(4) Governmental:

- a. Public utility building or use

(5) Agricultural/ Mining:

* None

(6) Recreational/ Entertainment:

- c.(1). Tennis club; indoor and outdoor facilities
- h. Commercial recreation; indoor only, not otherwise listed

(7) Office/ Financial/ Medical:

- f. Veterinary clinic or animal hospital (also see animal boarding; outside facility, kennel and stable)

(8) Services:

- a. Child day care facilities
- b. Adult day care facilities
- l. Convention center; private
- s. Hotel, motel, bed and breakfast inn; limited stay lodging (see also residential quarters for resident manager, supervisor
or caretaker and section 9-4-103)
- ff. Mental health, emotional or physical rehabilitation center

(9) Repair:

- * None

(10) Retail Trade:

- h. Restaurant; conventional
- j. Restaurant; regulated outdoor activities

(11) Wholesale/ Rental/ Vehicle- Mobile Home Trade:

- * None

(12) Construction:

- * None

(13) Transportation:

- h. Parking lot or structure; principle use

(14) Manufacturing/ Warehousing:

- * None

(15) Other Activities (not otherwise listed - all categories):

- a. Other activities; personal services not otherwise listed
- b. Other activities; professional services not otherwise listed

Urban Core Overlay District Explanation provided by CDD Planning Division Staff

The purpose and intent of the urban core (UC) overlay district and requirements is to allow modification of specific site development standards of the underlying zoning district which are designed to facilitate development and redevelopment of in-fill sites in a designated area in proximity to the urban core.

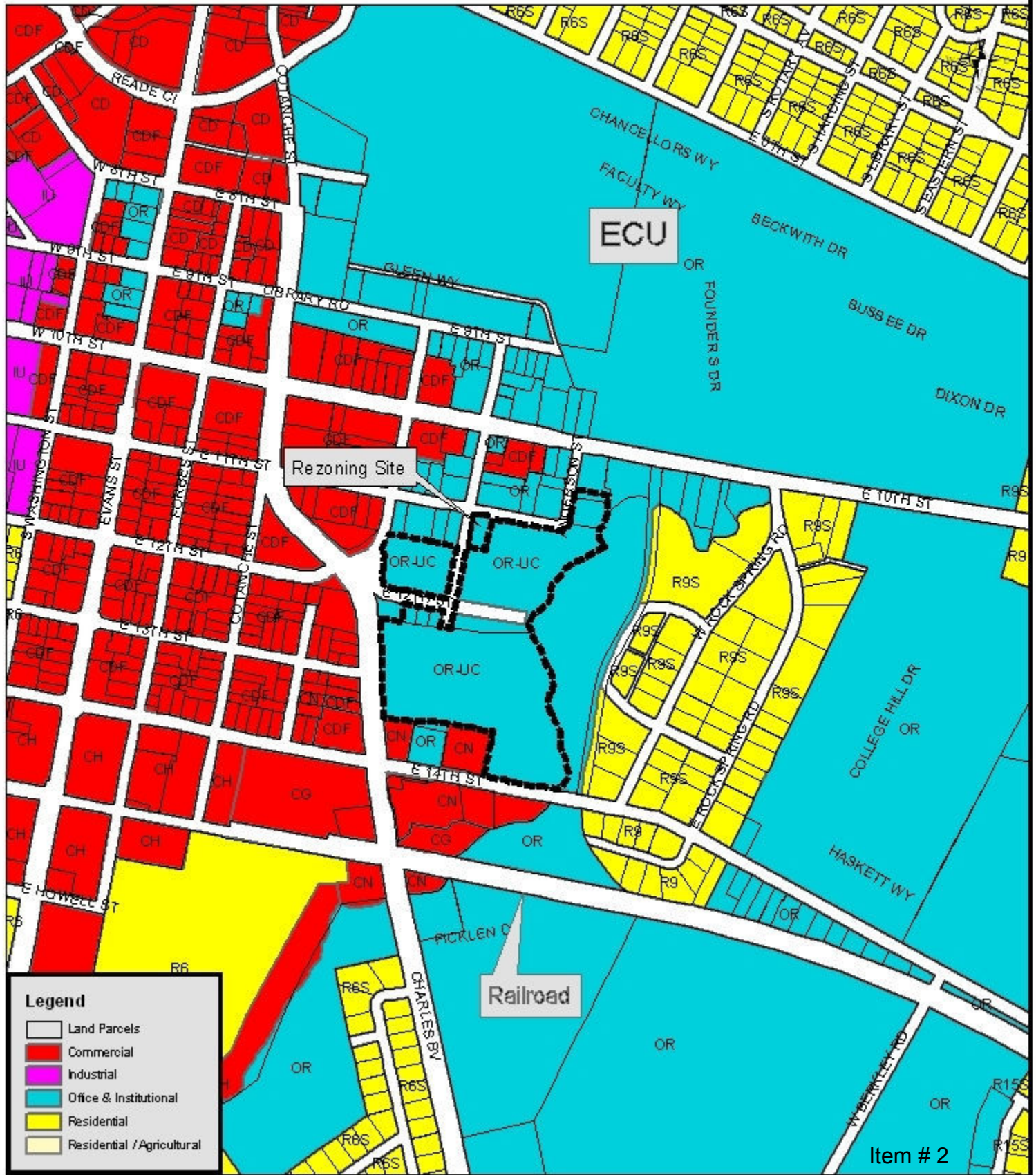
An urban core (UC) overlay district is defined as an overlay zoning district adopted in conjunction with a CDF, and/or OR underlying general purpose district wherein the zoning rights, standards, restrictions and requirements as set forth for the common general purpose district shall extend to the urban core (UC) overlay district zoned area.

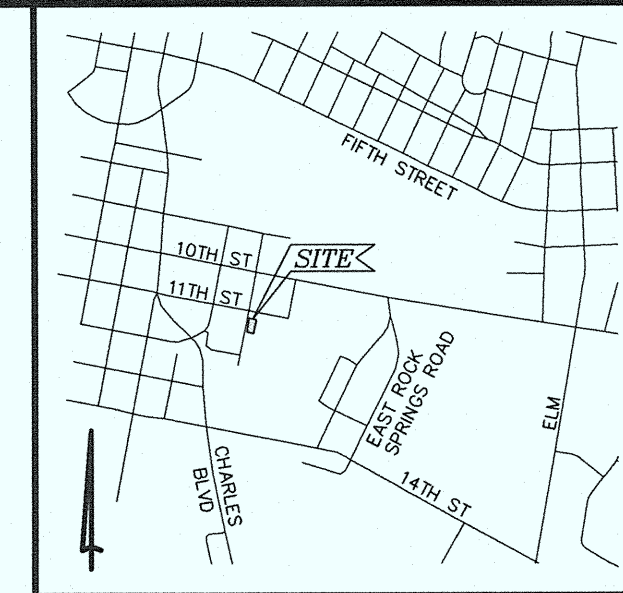
All urban core (UC) overlay district(s) shall be restricted to the land area located within the following boundary: south of Tenth Street, east of the CSXT Railroad, north of Fourteenth Street and west of Green Mill Run/ECU easement as existing on the date of adoption of the ordinance. No urban core (UC) overlay district shall be located outside of the designated area described above. An urban core (UC) overlay district shall be established within the designated area upon City Council adoption of an individual zoning ordinance which defines the boundary of the specific urban core (UC) district located within the designated area boundary.

If the ordinance is approved, high-density residential development including standard multi-family housing and Land Use Intensity (LUI) residential development located within a future UC district may be subject to reduced street setbacks, street bufferyards and parking space to dwelling separation setbacks at the option of the property owner as follows:

- Principal and accessory structure public street right-of-way and private street easement setbacks may be reduced at the option of the owner to not less than 5 feet.
- Applicable 6 foot and/or 10 foot street bufferyard width may be reduced at the option of the owner to not less than 5 feet regardless of lot size. Bufferyard width modification shall not exempt or reduce any vegetation requirements applicable to any street bufferyard, as required prior to the application of this provision.
- Parking space to dwelling unit separation may be reduced at the option of the owner to not less than 5 feet.

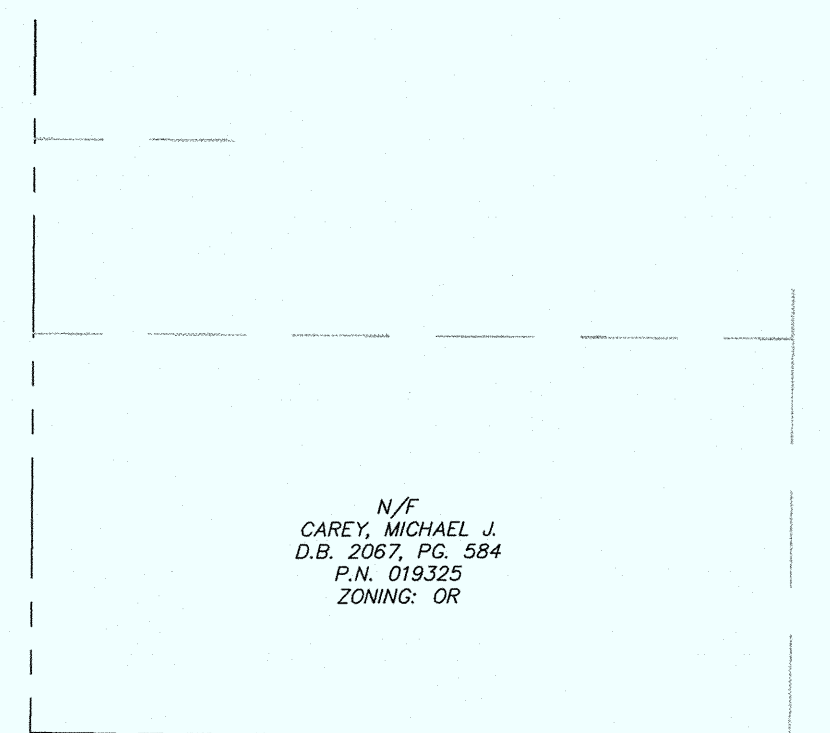
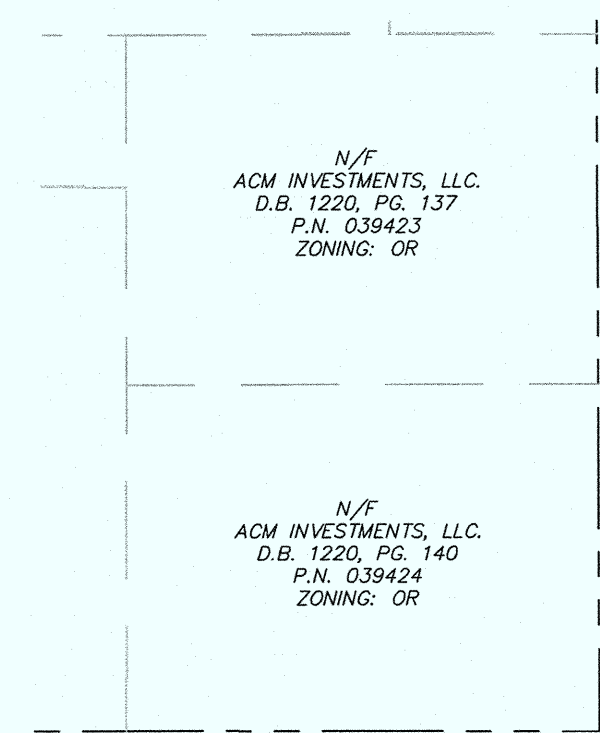
Edwards Communities Development Co., LLC
From: OR to OR-UC
0.25 acres
February 23, 2010



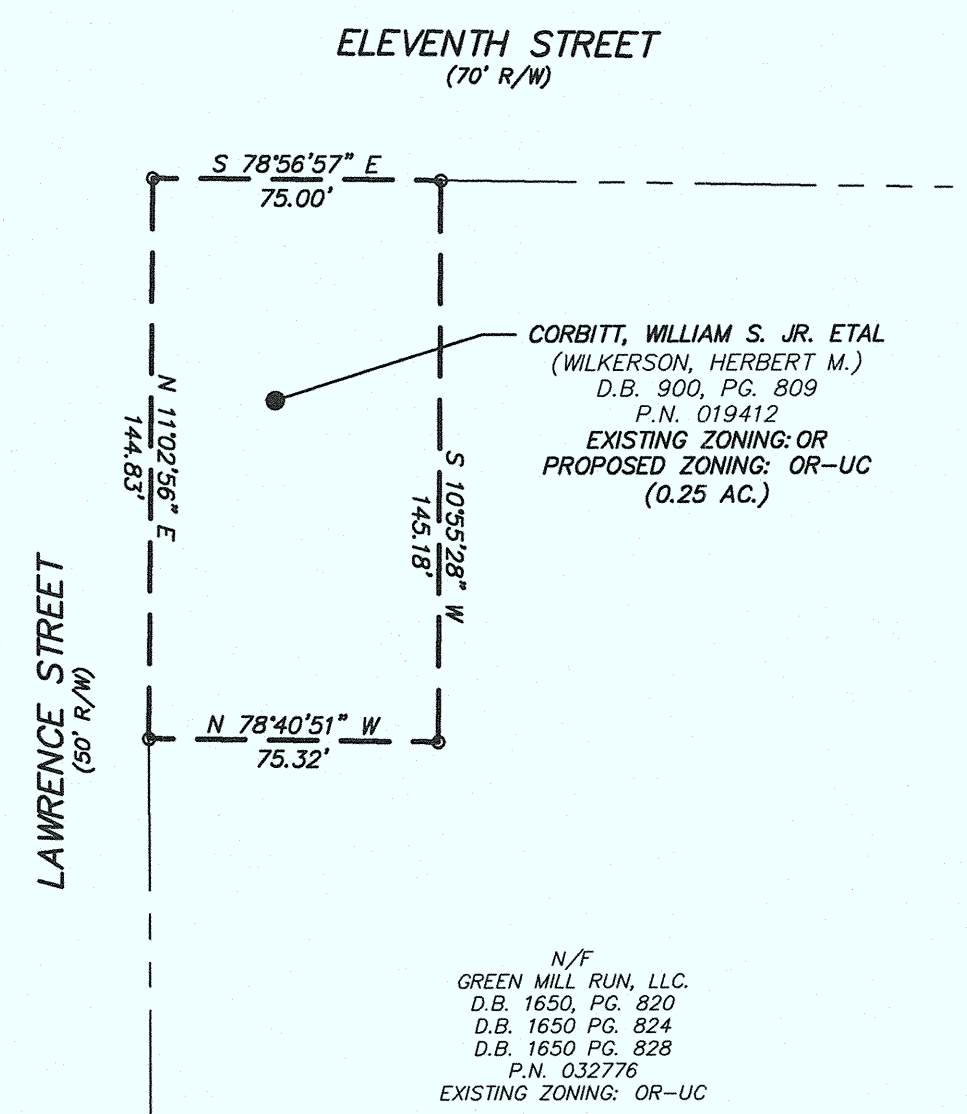
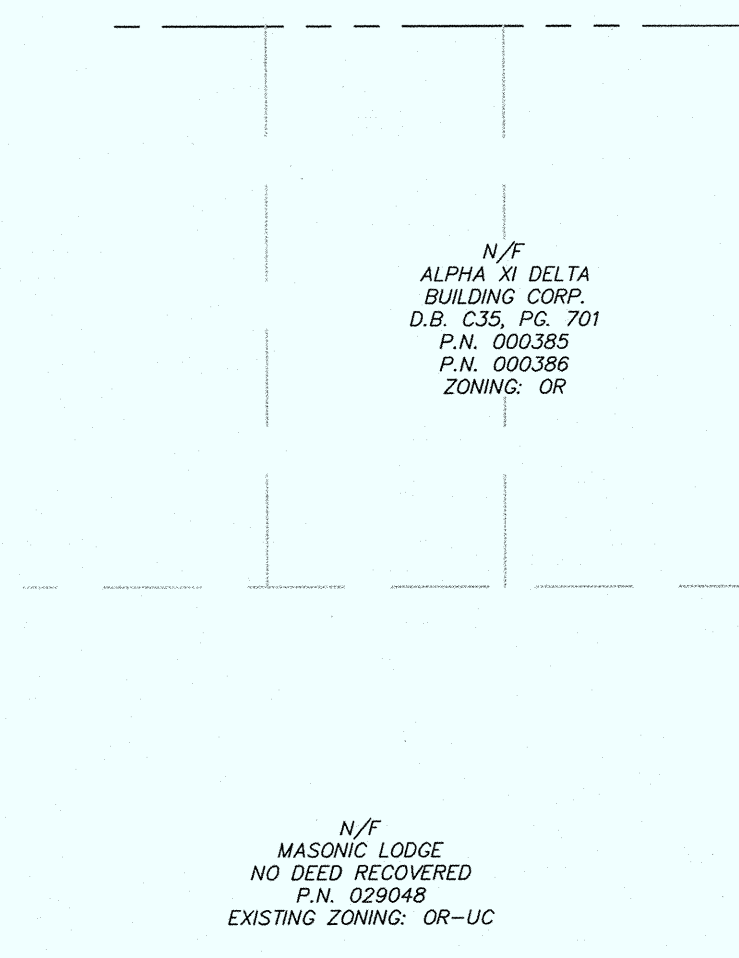


Vicinity Map
SCALE: 1" = 2000'

D.B. 1650, PG. 820 (01/8/04)



Attachment number 6
Page 1 of 1



NOTES

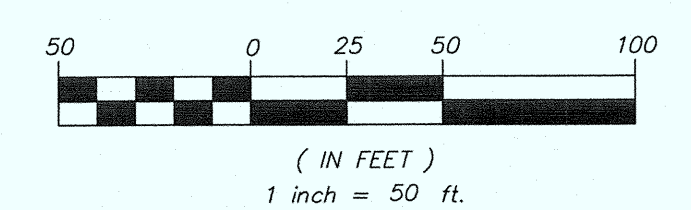
1. AREA DETERMINED BY COORDINATES.
2. ALL DISTANCES ARE HORIZONTAL GROUND MEASUREMENTS.
3. NO POINT SET AT ANY CORNER UNLESS OTHERWISE NOTED.
4. THIS MAP WAS PREPARED FOR REZONING PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY OF THE PROPERTIES SHOWN HEREON.
5. EXISTING ZONING WAS TAKEN FROM THE CITY OF GREENVILLE SPATIAL DATA EXPLORER WEB SITE.
6. BOUNDARY INFORMATION TAKEN FROM DEEDS AND MAPS REFERENCED HEREON; NO FIELD WORK WAS PERFORMED FOR THIS MAP.
7. ADJOINING OWNERSHIP INFORMATION TAKEN FROM THE PITT COUNTY GIS SITE. TITLE DEED INFORMATION HAS NOT BEEN VERIFIED.

LEGEND

P.N.	PARCEL NUMBER
N/F	NOW OR FORMERLY
M.B.	MAP BOOK
PG.	PAGE
D.B.	DEED BOOK

REFERENCES

- D.B. 900 PG. 809
- M.B. 27 PG. 124A



NORTH CAROLINA PITT COUNTY

I, PATRICK W. HARTMAN, CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM DEEDS AND MAPS AS REFERENCED HEREON; THAT THE RATIO OF PRECISION IS 1:10,000; THAT BOUNDARIES NOT SURVEYED ARE SHOWN AS BROKEN LINES PLOTTED FROM INFORMATION FOUND IN BOOKS REFERENCED HEREON; I FURTHER CERTIFY PURSUANT TO G.S. 47-30 (1)(11)d. AS TO THE FOLLOWING; THAT THIS SURVEY IS OF ANOTHER CATEGORY, SUCH AS THE RECOMBINATION OF EXISTING PARCELS, A COURT-ORDERED SURVEY, OR OTHER EXCEPTION TO THE DEFINITION OF SUBDIVISION. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS 2nd DAY OF FEBRUARY, 2010.

Patrick W. Hartman
PROFESSIONAL LAND SURVEYOR REGISTRATION NO. L-4262

PROFESSIONAL SEAL

NORTH CAROLINA
PATRICK W. HARTMAN
LAND SURVEYOR
L-4262

DATE 02/02/10

SURVEY	DRAFT	AAS
DESIGN	CHECK	PWH

Rivers & Associates, Inc.
107 East Second Street
Greenville, NC 27858 (252) 752-4135

Engineers
Planners
Surveyors
N.C. LIC. NO. F-0334

6131 Falls of Neuse Road, Suite 300
Raleigh, NC 27609 (919) 848-3347

REZONING MAP FOR
EDWARDS COMMUNITIES DEVELOPMENT COMPANY
CITY OF GREENVILLE, GREENVILLE TOWNSHIP, PITT CO., N.C.

SCALE 1" = 50'	DRAWING NO. Z-2521-2	SHEET 1 OF 1
-------------------	-------------------------	-----------------

BUFFERYARD SETBACK AND VEGETATION SCREENING CHART

For Illustrative Purposes Only

Bufferyard Requirements: Match proposed land use with adjacent permitted land use or adjacent vacant zone/nonconforming use to determine applicable bufferyard.

PROPOSED LAND USE CLASS (#)	ADJACENT PERMITTED LAND USE CLASS (#)					ADJACENT VACANT ZONE OR NONCONFORMING USE		PUBLIC/PRIVATE STREETS OR R.R.
	Single-Family Residential (1)	Multi-Family Residential (2)	Office/Institutional, light Commercial, Service (3)	Heavy Commercial, Light Industry (4)	Heavy Industrial (5)	Residential (1) - (2)	Non-Residential (3) - (5)	
Multi-Family Development (2)	C	B	B	B	B	C	B	A
Office/Institutional, Light Commercial, Service (3)	D	D	B	B	B	D	B	A
Heavy Commercial, Light Industry (4)	E	E	B	B	B	E	B	A
Heavy Industrial (5)	F	F	B	B	B	F	B	A

Bufferyard A (street yard)

Lot Size	Width	For every 100 linear feet
Less than 25,000 sq.ft.	4'	2 large street trees
25,000 to 175,000 sq.ft.	6'	2 large street trees
Over 175,000 sq.ft.	10'	2 large street trees

Street trees may count toward the minimum acreage.

Bufferyard B (no screen required)

Lot Size	Width
Less than 25,000 sq.ft.	4'
25,000 to 175,000 sq.ft.	6'
Over 175,000 sq.ft.	10'

Bufferyard C (screen required)

Width	For every 100 linear feet
10'	3 large evergreen trees 4 small evergreens 16 evergreen shrubs

Where a fence or evergreen hedge (additional materials) is provided, the bufferyard width may be reduced to eight (8) feet.

Bufferyard D (screen required)

Width	For every 100 linear feet
20'	4 large evergreen trees 6 small evergreens 16 evergreen shrubs

Bufferyard width may be reduced by fifty (50%) percent if a fence, evergreen hedge (additional material) or earth berm is provided.

Bufferyard E (screen required)

Width	For every 100 linear feet
30'	6 large evergreen trees 8 small evergreens 26 evergreen shrubs

Bufferyard width may be reduced by fifty (50%) percent if a fence, evergreen hedge (additional material) or earth berm is provided.

Bufferyard F (screen required)

Width	For every 100 linear feet
50'	8 large evergreen trees 10 small evergreens 36 evergreen shrubs

Bufferyard width may be reduced by fifty (50%) percent if a fence, evergreen hedge (additional material) or earth berm is provided.

Parking Area: Thirty (30) inch high screen required for all parking areas located within fifty (50) feet of a street right-of-way.



City of Greenville, North Carolina

Meeting Date: 4/8/2010
Time: 7:00 PM

Title of Item: Ordinance requested by Adrian Wike to rezone 5.46 acres located at the northeast corner of the intersection of Belvoir Highway and Sunnybrook Road from RA20 (Residential-Agricultural) and CG (General Commercial) to CH (Heavy Commercial)

Explanation:

Required Notice:

Planning and Zoning Commission meeting notice (property owner(s) and adjoining property owners letters) mailed on March 2, 2010.
On-site sign(s) posted on March 2, 2010.
City Council public hearing notice (property owner(s) and adjoining property owners letters) mailed on March 23, 2010.
Public hearing legal advertisement published on -March 29 and April 5, 2010.

Comprehensive Plan:

The property is located in Vision Area A.

Belvoir Highway is considered a "connector corridor" from it's intersection with North Memorial Drive continuing west. At it's intersection with Sunnybrook Road, it transitions to a residential corridor. Connector corridors are anticipated to contain a variety of uses. Along residential corridors, office, service and retail activities should be specifically restricted to the associated focus area and linear expansion outside of the focus area node should be prohibited.

The Future Land Use Plan Map recommends commercial (C) at the northeast corner of the intersection of Belvoir Highway and Sunnybrook Road with industrial (I) in the interior areas and office/institutional/multi-family along the eastern right-of-way of Sunnybrook Road to act as transitional zoning.

There is a recognized neighborhood commercial focus area at the intersection of Belvoir Highway, Old River Road, and Sunnybrook Road. These nodes typically contain 20,000 - 40,000 square feet of conditioned floor space.

Thoroughfare/Traffic Volume Report Summary (PWD - Engineering Division):

Based on possible uses permitted by the requested rezoning, the proposed rezoning classification could generate 1,797 trips to and from the site on Belvoir Highway (NC 33), which is a net increase of 1,682 additional trips per day.

Based on possible uses permitted by the requested rezoning, the proposed rezoning classification could generate 449 trips to and from the site on Old River Road, which is a net increase of 420 additional trips per day.

During the review process, measures to mitigate the traffic will be determined. These measures may include turn lane modifications on Belvoir Highway (NC 33). Access to the tract from Sunnybrook Road and Belvoir Highway (NC 33) will also be reviewed.

History/Background:

The property was zoned RA20 and CS (general commercial) on the 1976 series rezoning map.

Present Land Use:

Currently, the property is vacant.

Water/Sewer:

Water is located in the right-of-way of Sunnybrook Road. Sanitary sewer is located at the end of Redmond Lane.

Historic Sites:

There are no known effects on designated areas.

Environmental Conditions/Constraints:

The property is located in the 500-year floodplain associated with the Tar River.

Surrounding Land Uses and Zoning:

North: RA20 - farmland

South: RA20 - one (1) single-family residence and one (1) vacant lot

East: RA20/CG - farmland

West: CH - Auto Center

Density Estimates:

The property contains two (2) zoning districts.

Under the current zoning (RA20), the property could accommodate 10-15 single-family lots. Under the current zoning (CG), this portion of the property is undevelopable due to its size.

Under the proposed zoning (CH), staff would anticipate the site to accommodate 52,320 square feet of retail space.

Fiscal Note: No cost to the City.

Recommendation: In staff's opinion, the request is in general compliance with Horizons: Greenville's Community Plan and the Future Land Use Plan Map.

"General compliance with the comprehensive plan" should be construed as meaning the requested rezoning is recognized as being located in a transition area and that the requested rezoning (i) is currently contiguous or is reasonably anticipated to be contiguous in the future, to specifically recommend desirable zoning of like type, character or compatibility, (ii) is complementary with objectives specifically recommended in the Horizons Plan (iii) is not anticipated to create or have an unacceptable impact on adjacent area properties or travel ways, and (iv) preserves the desired urban form. It is recognized that in the absence of more detailed plans, subjective decisions must be made concerning the scale, dimension, configuration, and location of the requested zoning in the particular case. Staff is not recommending approval of the requested zoning; however staff does not have any specific objection to the requested zoning.

The Planning and Zoning Commission voted to approve the request at its March 16, 2010, meeting.

Note: In addition to the other criteria, the Planning and Zoning Commission and City Council shall consider the entire range of permitted and special uses for the existing and proposed districts as listed under Title 9, Chapter 4, Article D of the Greenville City Code.

If City Council determines to approve the request, a motion to adopt the attached rezoning ordinance will accomplish this. The ordinance includes the statutorily required statement describing whether the action taken is consistent with the comprehensive plan and explaining why Council considers the action taken to be reasonable and in the public interest.

If City Council determines to deny the rezoning request, in order to comply with this statutory requirement, it is recommended that the motion be as follows: Motion to deny the request to rezone and to make a finding and determination that the denial of the rezoning request is consistent with the adopted comprehensive plan and that the denial of the rezoning request is reasonable and in the public interest due to the denial being consistent with the comprehensive plan and, as a result, the denial furthers the goals and objectives of the

comprehensive plan.

Viewing Attachments Requires Adobe Acrobat. [Click here](#) to download.

Attachments / click to download

- [📄 Location Map](#)
 - [📄 Survey](#)
 - [📄 Bufferyard and Vegetation Chart](#)
 - [📄 Ordinance Adrian Wike 859865](#)
 - [📄 Rezoning Case 10 03 Adrian Wike 858194](#)
 - [📄 Excerpt from March 16 2010 P Z Minutes for Adrian Wike 860089](#)
 - [📄 List of Uses RA20 CG to CH 706766](#)
-

ORDINANCE NO. 10-
AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF GREENVILLE
REZONING TERRITORY LOCATED WITHIN THE PLANNING AND ZONING
JURISDICTION OF THE CITY OF GREENVILLE, NORTH CAROLINA

WHEREAS, the City Council of the City of Greenville, North Carolina, in accordance with Article 19, Chapter 160A, of the General Statutes of North Carolina, caused a public notice to be given and published once a week for two successive weeks in The Daily Reflector setting forth that the City Council would, on April 8, 2010, at 7:00 p.m., in the City Council Chambers of City Hall in the City of Greenville, NC, conduct a public hearing on the adoption of an ordinance rezoning the following described territory;

WHEREAS, the City Council has been informed of and has considered all of the permitted and special uses of the districts under consideration; and,

WHEREAS, in accordance with the provisions of North Carolina General Statute 160A-383, the City Council does hereby find and determine that the adoption of the ordinance rezoning the following described property is consistent with the adopted comprehensive plan and that the adoption of the ordinance rezoning the following described property is reasonable and in the public interest due to its consistency with the comprehensive plan and, as a result, its furtherance of the goals and objectives of the comprehensive plan.

THE CITY COUNCIL OF THE CITY OF GREENVILLE, NORTH CAROLINA, DOES HEREBY ORDAIN:

Section 1. That the following described territory is rezoned from RA20 (Residential-Agricultural) and CG (General Commercial) to CH (Heavy Commercial).

TO WIT: Adrian Wike and Mary Denise Owens Property.

LOCATION: Located at the northeast intersection of Sunnybrook Road and Belvoir Highway.

DESCRIPTION:

Lying and being in the Greenville Township, Pitt County, North Carolina and being more particularly described as follows:

Beginning at an iron pipe located at the northeast intersection of Sunnybrook Road (N.C.S.R. 1440) and N.C. Hwy. 33, said point being N 19°27'40" E, 94.96 feet from a nail located at the centerline intersection of Sunnybrook Road (N.C.S.R. 1440) and N.C. Hwy. 33, and running thence from said POINT OF BEGINNING with the eastern right-of-way line of Sunnybrook Road (N.C.S.R. 1440) N 04°15'00" E, 723.99 feet to an existing iron pipe; thence cornering and leaving the eastern right-of-way line of Sunnybrook Road (N.C.S.R. 1440) and following the centerline of a drainage ditch S 49°18'39" E, 444.70 feet to an existing iron pipe; cornering and

running thence S 04°35'17" W, 542.83 feet to an existing iron pipe located on the northern right-of-way line of N.C. Hwy. 33; cornering and running thence with the northern right-of-way line of N.C. Hwy. 33 along a curve having a radius of 1,315.18 feet, a chord bearing of N 83°56'24" W and a chord distance of 290.53 feet to an existing iron pipe; cornering and thence N 36°45'26" W, 97.79 feet to the POINT OF BEGINNING, containing 5.46 acres, more or less.

Section 2. That the Director of Community Development is directed to amend the zoning map of the City of Greenville in accordance with this ordinance.

Section 3. That all ordinances and clauses of ordinances in conflict with this ordinance are hereby repealed.

Section 4. That this ordinance shall become effective upon its adoption.

ADOPTED this 8th day of April, 2010.

Patricia C. Dunn, Mayor

ATTEST:

Wanda T. Elks, City Clerk

859865

Case No: 10-03

Applicant: Adrian Wike

Property Information

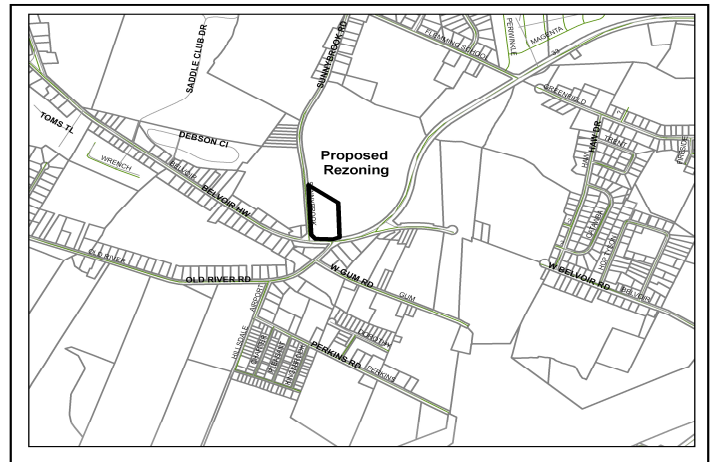
Current Zoning: CG (General Commercial)
RA20 (Residential-Agricultural)

Proposed Zoning: CH (Heavy Commercial)

Current Acreage: 5.46 acres

Location: NC33, Sunnybrook Road, Old River Road

Points of Access: NC 33, Sunnybrook Rd



Location Map

Transportation Background Information

1.) NC 33- State maintained

	<u>Existing Street Section</u>	<u>Ultimate Thoroughfare Street Section</u>
Description/cross section	2-lane	2-lane
Right of way width (ft)	100	100
Speed Limit (mph)	50	50
Current ADT:	8,635 (*) (South of Airport Road)	UltimateDesign ADT: 12,000 vehicles/day (**)
Design ADT:	12,000	
Controlled Access	No	
Thoroughfare Plan Status:	Major Thoroughfare	
Other Information:	There are no sidewalks along NC33 that service this property.	

Notes: (*) 2008 NCDOT count adjusted for a 2% annual growth rate
(**) Traffic volume based an operating Level of Service D for existing geometric conditions
ADT – Average Daily Traffic volume

Transportation Improvement Program Status: No Planned Improvements.

2.) Old River Road- State maintained

	<u>Existing Street Section</u>	<u>Ultimate Thoroughfare Street Section</u>
Description/cross section	2-lane	2-lane
Right of way width (ft)	60	60
Speed Limit (mph)	45	45
Current ADT:	8,635 (*)	Ultimate Design ADT: 12,000 vehicles/day (**)
Design ADT:	12,000	
Controlled Access	No	
Thoroughfare Plan Status:	Minor Thoroughfare	
Other Information:	There are no sidewalks along Old River Road that service this property.	

Notes: (*) 2008 NCDOT count adjusted for a 2% annual growth rate
(**) Traffic volume based an operating Level of Service D for existing geometric conditions
ADT – Average Daily Traffic volume

Transportation Improvement Program Status: No Planned Improvements.

Trips generated by proposed use/change**Current Zoning: 144** -vehicle trips/day (*)**Proposed Zoning: 2,246** -vehicle trips/day (*)**Estimated Net Change: increase of 2102 vehicle trips/day (assumes full-build out)**

(*) - These volumes are estimated and based on an average of the possible uses permitted by the current and proposed zoning.)

Impact on Existing Roads**The overall estimated trips presented above are distributed based on current traffic patterns. The estimated ADTs on NC 33 and Old River Road are as follows:****1.) NC 33, East of Site:****“No build” ADT of 8,635**

Estimated ADT with Proposed Zoning (full build) – 9,758

Estimated ADT with Current Zoning (full build) – 8,707**Net ADT change = 1,051 (11% increase)****2.) NC 33, West of Site:****“No build” ADT of 8,635**

Estimated ADT with Proposed Zoning (full build) – 9,309

Estimated ADT with Current Zoning (full build) – 8,678**Net ADT change = 631 (7% increase)****3.) Old River Road, South of Site:****“No build” ADT of 8,635**

Estimated ADT with Proposed Zoning (full build) – 9,084

Estimated ADT with Current Zoning (full build) – 8,664**Net ADT change = 420 (5% increase)****Staff Findings/Recommendations**

Based on possible uses permitted by the requested rezoning, the proposed rezoning classification could generate 1797 trips to and from the site on NC 33, which is a net increase of 1682 additional trips per day.

Based on possible uses permitted by the requested rezoning, the proposed rezoning classification could generate 449 trips to and from the site on Old River Road, which is a net increase of 420 additional trips per day.

During the review process, measures to mitigate the traffic will be determined. These measures may include turn lane modifications on NC33. Access to the tract from Sunnybrook Rd and NC33 will also be reviewed.

Excerpt from the draft Planning and Zoning Commission meeting minutes (3/16/10):

REQUEST BY ADRIAN WIKE - APPROVED

Ordinance requested by Adrian Wike to rezone 5.46 acres located at the northeast corner of the intersection of Belvoir Highway and Sunnybrook Road from RA20 (Residential-Agricultural) and CG (General Commercial) to CH (Heavy Commercial).

Ms. Chantae Gooby stated this rezoning is located in the northwest section of the city at the intersection of Belvoir Highway (Highway 33) and Sunnybrook Road. The property is currently zoned residential-agricultural with a small area of general commercial along Highway 33. The requested zoning is heavy commercial. Ms. Gooby said the property currently contains one outbuilding. The area contains mostly residential properties and a large portion being vacant. The property is located within the 500-year floodplain associated with the Tar River. There is a neighborhood focus area located at the intersection of Belvoir Highway and Sunnybrook Road where commercial is anticipated and encouraged. Ms. Gooby said this rezoning could generate a net increase of over 2,100 trips. The Future Land Use Plan Map recommends commercial. In staff's opinion, this request is in compliance with Horizon's: Greenville's Community Plan and the Future Land Use Plan Map.

Mr. Adrian Wike, applicant, spoke in favor of his request.

No one spoke in opposition.

Motion was made by Mr. Ramey, seconded by Mr. Gordon to recommend approval of the proposed amendment, to advise that it is consistent with the comprehensive plan and other applicable plans and to adopt the staff report which addresses plan consistency and other matters. Motion carried unanimously.

EXISTING ZONING

RA20 (Residential-Agricultural)

Permitted Uses

(1) General:

- a. Accessory use or building
- c. On- premise signs per Article N

(2) Residential:

- a. Single-family dwelling
- f. Residential cluster development per Article M
- k. Family care home (see also section 9-4-103)
- q. Room renting

(3) Home Occupations (see all categories):

*None

(4) Governmental:

- b. City of Greenville municipal government building or use (see also section 9-4-103)

(5) Agricultural/ Mining:

- a. Farming; agriculture, horticulture, forestry (see also section 9-4-103)
- c. Wayside market for farm products produced on site
- e. Kennel (see also section 9-4-103)
- f. Stable; horse only (see also section 9-4-103)
- g. Stable; per definition (see also section 9-4-103)
- h. Animal boarding not otherwise listed; outside facility, as an accessory or principal use

(6) Recreational/ Entertainment:

- f. Public park or recreational facility
- g. Private noncommercial park or recreational facility

(7) Office/ Financial/ Medical:

* None

(8) Services:

- o. Church or place of worship (see also section 9-4-103)

(9) Repair:

* None

(10) Retail Trade:

* None

(11) Wholesale/ Rental/ Vehicle- Mobile Home Trade:

* None

(12) Construction:

- c. Construction office; temporary, including modular office (see also section 9-4-103)

(13) Transportation:

* None

(14) Manufacturing/ Warehousing:

* None

(15) Other Activities (not otherwise listed - all categories):

* None

RA20 (Residential-Agricultural)

Special Uses

(1) General:

* None

(2) Residential:

- b. Two-family attached dwelling (duplex)
- g. Mobile Home
- n. Retirement center or home
- o. Nursing, convalescent center or maternity home; major care facility

(3) Home Occupations (see all categories):

- a. Home occupation; including barber and beauty shops
- c. Home occupation; including manicure, pedicure or facial salon

(4) Governmental:

- a. Public utility building or use

(5) Agricultural/ Mining:

- b. Greenhouse or plant nursery; including accessory sales

(6) Recreational/ Entertainment:

- a. Golf course; regulation
- c.(1). Tennis club; indoor and outdoor facilities

(7) Office/ Financial/ Medical:

* None

(8) Services:

- a. Child day care facilities
- b. Adult day care facilities
- d. Cemetery
- g. School; junior and senior high (see also section 9-4-103)
- h. School; elementary (see also section 9-4-103)
- i. School; kindergarten or nursery (see also section 9-4-103)
- ee. Hospital

(9) Repair:

* None

(10) Retail Trade:

* None

(11) Wholesale/ Rental/ Vehicle- Mobile Home Trade:

* None

(12) Construction:

* None

(13) Transportation:

* None

(14) Manufacturing/ Warehousing:

* None

(15) Other Activities (not otherwise listed - all categories):

* None

CG (General Commercial)

Permitted Uses

(1) General:

- a. Accessory use or building
- b. Internal service facilities
- c. On- premise signs per Article N
- e. Temporary uses; of listed district uses
- f. Retail sales; incidental
- g. Incidental assembly of products sold at retail or wholesale as an accessory to principle use

(2) Residential: * None

(3) Home Occupations (see all categories):

*None

(4) Governmental:

- b. City of Greenville municipal government building or use. (See also section 9-4-103)
- c. County or state government building or use not otherwise listed; excluding outside storage and major or minor repair
- d. Federal government building or use
- g. Liquor store, state ABC

(5) Agricultural/ Mining:

- a. Farming; agriculture, horticulture, forestry (see also section 9-4-103)

(6) Recreational/ Entertainment:

- f. Public park or recreational facility
- h Commercial recreation; indoor only, not otherwise listed
- j. Bowling alleys
- n. Theater; movie or drama, indoor only
- q. Circus, carnival or fair, temporary only (see also section 9-4-103)
- s. Athletic Club; indoor only

(7) Office/ Financial/ Medical:

- a. Office; professional and business, not otherwise listed
- b. Operation/processing center
- d. Bank, savings and loan or other savings or investment institutions
- e. Medical, dental, ophthalmology or similar clinic, not otherwise listed
- g. Catalogue processing center

(8) Services:

- c. Funeral home
- e. Barber or beauty shop
- f. Manicure, pedicure, or facial salon
- k. Business or trade school
- o. Church or place of worship (see also section 9-4-103)
- q. Museum

- r. Art Gallery
- s. Hotel, motel, bed and breakfast inn; limited stay lodging (see also residential quarters for resident manager, supervisor or caretaker and section 9-4-103)
- u. Art studio including art and supply sales
- v. Photography studio including photo and supply sales
- y.(1) Television and/or radio broadcast facilities including receiving and transmission equipment and towers not exceeding 200 feet in height or cellular telephone and wireless communication towers not exceeding 200 feet in height (see also section 9-4-103)
- z. Printing or publishing service including graphic art, map, newspapers, magazines and books
- aa. Catering service including food preparation (see also restaurant; conventional and fast food)
- hh. Exercise and weight loss studio; indoor only
- kk. Launderette; household users
- ll. Dry cleaners; household users
- oo. Clothes alteration or shoe repair shop
- pp. Automobile wash

(9) Repair:

- g. Jewelry, watch, eyewear or other personal item repair

(10) Retail Trade:

- a. Miscellaneous retail sales; non-durable goods, not otherwise listed
- c. Grocery; food or beverage, off premise consumption (see also Wine Shop)
- c.1 Wine shop (see also section 9-4-103)
- d. Pharmacy
- e. Convenience store (see also gasoline sales)
- f. Office and school supply, equipment sales
- g. Fish market; excluding processing or packing
- h. Restaurant; conventional
- i. Restaurant; fast food
- k. Medical supply sales and rental of medically related products
- l. Electric; stereo, radio, computer, television, etc. sales and accessory repair
- m. Appliance; household use, sales and accessory repair, excluding outside storage
- p. Furniture and home furnishing sales not otherwise listed
- q. Floor covering, carpet and wall covering sales
- r. Antique sales; excluding vehicles
- s. Book or card store, news stand
- t. Hobby or craft shop
- u. Pet shop (see also animal boarding; outside facility)
- v. Video or music store; records, tape, compact disk, etc. sales
- w. Florist
- x. Sporting goods sales and rental shop
- y. Auto part sales (see also major and minor repair)
- aa. Pawnbroker
- bb. Lawn and garden supply and household implement sales and accessory sales
- ee. Christmas tree sales lot; temporary only (see also section 9-4-103)

(11) Wholesale/ Rental/ Vehicle- Mobile Home Trade:

- b. Rental of home furniture, appliances or electronics and medically related products (see also (10)k.)
- c. Rental of cloths and accessories; formal wear, etc.

(12) Construction:

- c. Construction office; temporary, including modular office (see also section 9-4-103)
- e. Building supply; lumber and materials sales, plumbing and/or electrical supply excluding outside storage
- f. Hardware store

(13) Transportation:

- c. Taxi or limousine service
- h. Parking lot or structure; principal use

(14) Manufacturing/ Warehousing:

* None

(15) Other Activities (not otherwise listed - all categories):

* None

CG (General Commercial)

Special Uses

(1) General:

* None

(2) Residential:

- i. Residential quarters for resident manager, supervisor or caretaker; excluding mobile home

(3) Home Occupations (see all categories):

* None

(4) Governmental:

- a. Public utility building or use

(5) Agricultural/ Mining:

* None

(6) Recreational/ Entertainment:

- d. Game center
- l. Billiard parlor or pool hall
- m. Public or private club
- t. Athletic club; indoor and outdoor facilities

(7) Office/ Financial/ Medical:

- c. Office; customer services, not otherwise listed, including accessory service delivery vehicle parking and indoor storage
- f. Veterinary clinic or animal hospital (see also animal boarding; outside facility, kennel and stable)

(8) Services:

- a. Child day care facilities
- b. Adult day care facilities
- l. Convention center; private

(9) Repair:

- a. Major repair; as an accessory or principal use
- b. Minor repair; as an accessory or principal use

(10) Retail Trade:

- b. Gasoline or automotive fuel sales; accessory or principal use, retail
- j. Restaurant; regulated outdoor activities
- n. Appliances; commercial use, sales and accessory repair, excluding outside storage

(11) Wholesale/ Rental/ Vehicle- Mobile Home Trade:

- d. Rental of automobiles, noncommercial trucks or trailers, recreational vehicles, motorcycles and boats

f. Automobile, truck, recreational vehicle, motorcycle and boat sales and service (see also major and minor repair)

(12) Construction:

* None

(13) Transportation:

* None

(14) Manufacturing/ Warehousing:

k. Mini-storage warehouse, household; excluding outside storage

(15) Other Activities (not otherwise listed - all categories):

- a. Other activities; personal services not otherwise listed
- b. Other activities; professional activities not otherwise listed
- c. Other activities; commercial services not otherwise listed
- d. Other activities; retail sales not otherwise listed

PROPOSED ZONING

CH (Heavy Commercial)

Permitted Uses

(1) General:

- a. Accessory use or building
- b. Internal service facilities
- c. On- premise signs per Article N
- d. Off-premise signs per Article N
- e. Temporary uses; of listed district uses
- f. Retail sales; incidental
- g. Incidental assembly of products sold at retail or wholesale as an accessory to principle use

(2) Residential:

* None

(3) Home Occupations (see all categories):

*None

(4) Governmental:

- a. Public utility building or use
- b. City of Greenville municipal government building or use (see also section 9-4-103)
- c. County or state government building or use not otherwise listed; excluding outside storage and major or minor repair
- d. Federal government building or use
- e. County government operation center
- g. Liquor store, state ABC

(5) Agricultural/ Mining:

- a. Farming; agriculture, horticulture, forestry (see also section 9-4-103)
- b. Greenhouse or plant nursery; including accessory sales
- d. Farmers market
- e. Kennel (see also section 9-4-103)
- h. Animal boarding not otherwise listed; outside facility, as an accessory or principal use

(6) Recreational/ Entertainment:

- b. Golf course; par three
- c. Golf driving range
- c.(1). Tennis club; indoor and outdoor facilities
- e. Miniature golf or putt-putt course
- f. Public park or recreational facility
- h. Commercial recreation; indoor only, not otherwise listed
- i. Commercial recreation; indoor and outdoor, not otherwise listed
- j. Bowling alleys
- n. Theater; movie or drama, indoor only
- o. Theater; movie or drama, including outdoor facility
- q. Circus, carnival or fair, temporary only (see also section 9-4-103)
- s. Athletic club; indoor only
- t. Athletic club; indoor and outdoor facility

(7) Office/ Financial/ Medical:

- a. Office; professional and business, not otherwise listed
- b. Operation/processing center
- c. Office; customer service not otherwise listed, including accessory service delivery vehicle parking and indoor storage
- d. Bank, savings and loan or other savings or investment institutions
- e. Medical, dental, ophthalmology or similar clinic, not otherwise listed
- f. Veterinary clinic or animal hospital (see also animal boarding; outside facility, kennel and stable)
- g. Catalogue processing center

(8) Services:

- c. Funeral home
- e. Barber or beauty shop
- f. Manicure, pedicure, or facial salon
- n. Auditorium
- o. Church or place of worship (see also section 9-4-103)
- q. Museum
- r. Art Gallery
- s. Hotel, motel, bed and breakfast inn; limited stay lodging (see also residential quarters for resident manager, supervisor or caretaker and section 9-4-103)
- u. Art studio including art and supply sales
- v. Photography studio including photo and supply sales
- y. Television, and/or radio broadcast facilities including receiving and transmission equipment and towers or cellular telephone and wireless communication towers [unlimited height, except as provided by regulations]
- z. Printing or publishing service including graphic art, map, newspapers, magazines and books
- aa. Catering service including food preparation (see also restaurant; conventional and fast food)
- bb. Civic organization
- cc. Trade or business organization
- hh. Exercise and weight loss studio; indoor only
- kk. Launderette; household users
- ll. Dry cleaners; household users
- mm. Commercial laundries; linen supply
- oo. Clothes alteration or shoe repair shop
- pp. Automobile wash

(9) Repair:

- b. Minor repair; as an accessory or principal use
- c. Upholster; automobile, truck, boat or other vehicle, trailer or van
- d. Upholsterer; furniture
- f. Appliance; household and office equipment repair

g. Jewelry, watch, eyewear or other personal item repair

(10) Retail Trade:

- a. Miscellaneous retail sales; non-durable goods, not otherwise listed
- b. Gasoline or automotive fuel sale; accessory or principal use
- c. Grocery; food or beverage, off premise consumption (see also Wine Shop)
- c.1 Wine shop (see also section 9-4-103)
- d. Pharmacy
- e. Convenience store (see also gasoline sales)
- f. Office and school supply, equipment sales
- g. Fish market; excluding processing or packing
- h. Restaurant; conventional
- i. Restaurant; fast food
- k. Medical supply sales and rental of medically related products
- l. Electric; stereo, radio, computer, television, etc. sales and accessory repair
- m. Appliance; household use, sales and accessory repair, excluding outside storage
- n. Appliance; commercial or industrial use, sales and accessory repair, including outside storage
- p. Furniture and home furnishing sales not otherwise listed
- q. Floor covering, carpet and wall covering sales
- r. Antique sales; excluding vehicles
- s. Book or card store, news stand
- t. Hobby or craft shop
- u. Pet shop (see also animal boarding; outside facility)
- v. Video or music store; records, tape, compact disk, etc. sales
- w. Florist
- x. Sporting goods sales and rental shop
- y. Auto part sales (see also major and minor repair)
- aa. Pawnbroker
- bb. Lawn and garden supply and household implement sales and accessory sales
- cc. Farm supply and commercial implement sales
- ee. Christmas tree sales lot; temporary only (see also section 9-4-103)

(11) Wholesale/ Rental/ Vehicle- Mobile Home Trade:

- a. Wholesale; durable and nondurable goods, not otherwise listed
- b. Rental of home furniture, appliances or electronics and medically related products (see also (10) k.)
- c. Rental of cloths and accessories; formal wear, etc.
- d. Rental of automobile, noncommercial trucks or trailers, recreational vehicles, motorcycles and boats
- e. Rental of tractors and/or trailers, or other commercial or industrial vehicles or machinery
- f. Automobiles, truck, recreational vehicle, motorcycles and boat sales and service (see also major and minor repair)
- g. Mobile home sales including accessory mobile home office

(12) Construction:

- a. Licensed contractor; general, electrical, plumbing, mechanical, etc. excluding outside storage
- c. Construction office; temporary, including modular office (see also section 9-4-103)
- d. Building supply; lumber and materials sales, plumbing and/or electrical supply excluding outside storage
- f. Hardware store

(13) Transportation:

- c. Taxi or limousine service
- e. Parcel delivery service
- f. Ambulance service
- h. Parking lot or structure; principal use

(14) Manufacturing/ Warehousing:

- a. Ice plant and freezer lockers
- b. Dairy; production, storage and shipment facilities
- c. Bakery; production, storage and shipment facilities
- g. Cabinet, woodwork or frame shop; excluding furniture manufacturing or upholster
- h. Engraving; metal, glass or wood
- i. Moving and storage of nonhazardous materials; excluding outside storage
- k. Mini-storage warehouse, household; excluding outside storage
- m. Warehouse; accessory to approved commercial or industrial uses within a district; excluding outside storage
- u. Tire recapping or retreading plant

(15) *Other Activities (not otherwise listed - all categories):** None

CH (Heavy Commercial)
Special Uses

(1) *General:*

* None

(2) *Residential:*

- i. Residential quarters for resident manager, supervisor or caretaker; excluding mobile home
- j. Residential quarters for resident manager, supervisor or caretaker; including mobile home

(3) *Home Occupations (see all categories):*

* None

(4) *Governmental:*

* None

(5) *Agricultural/ Mining:*

* None

(6) *Recreational/ Entertainment:*

- d. Game center
- l. Billiard parlor or pool hall
- m. Public or private club
- r. Adult uses

(7) *Office/ Financial/ Medical:*

* None

(8) *Services:*

- a. Child day care facilities
- b. Adult day care facilities
- l. Convention center; private
- dd. Massage establishment

(9) *Repair:*

- a. Major repair; as an accessory or principal use

(10) *Retail Trade:*

- j. Restaurant; regulated outdoor activities
- n. Appliance; commercial use, sales and accessory repair, excluding outside storage
- z. Flea market

(11) Wholesale/ Rental/ Vehicle- Mobile Home Trade:

* None

(12) Construction:

* None

(13) Transportation:

* None

(14) Manufacturing/ Warehousing:

d. Stone or monument cutting, engraving

j. Moving and storage; including outside storage

l. Warehouse or mini-storage warehouse, commercial or industrial; including outside storage

y. Recycling collection station or facilities

(15) Other Activities (not otherwise listed - all categories):

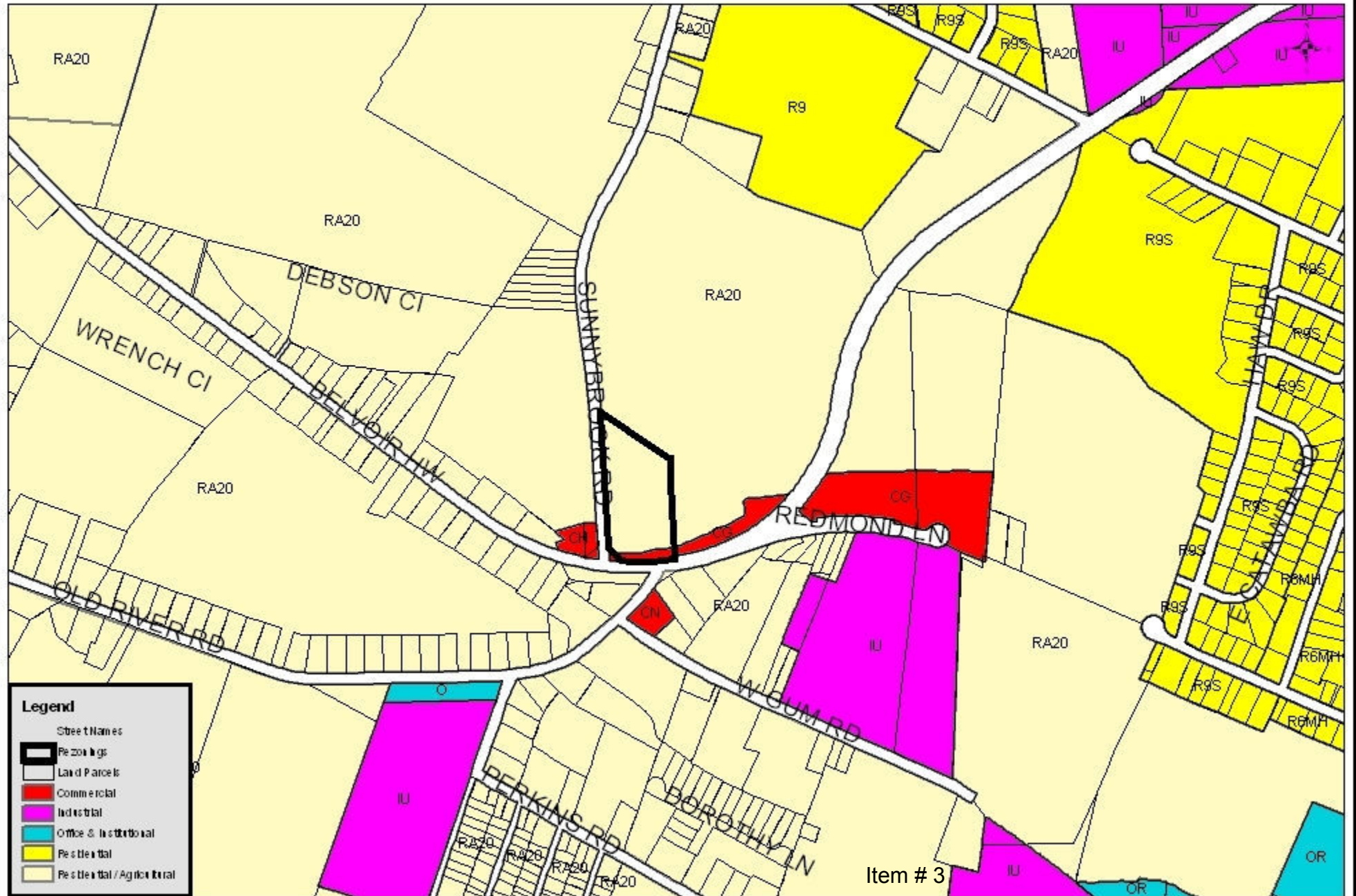
a. Other activities; personal services not otherwise listed

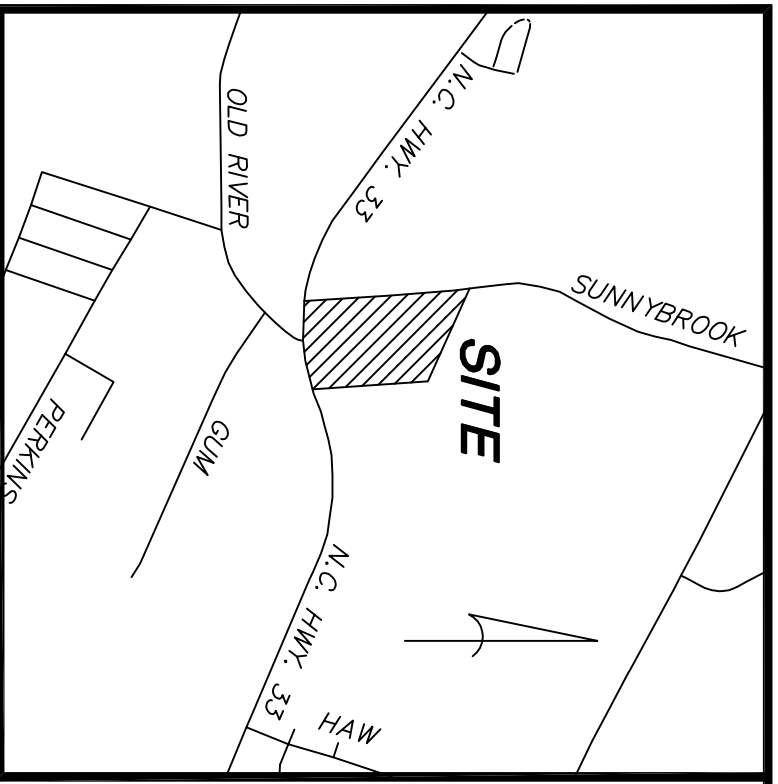
b. Other activities; professional activities not otherwise listed

c. Other activities; commercial services not otherwise listed

d. Other activities; retail sales not otherwise listed

Adrian Wike (10-03)
From: RA20, CG to CH
5.46 acres
February 23, 2010





VICINITY MAP

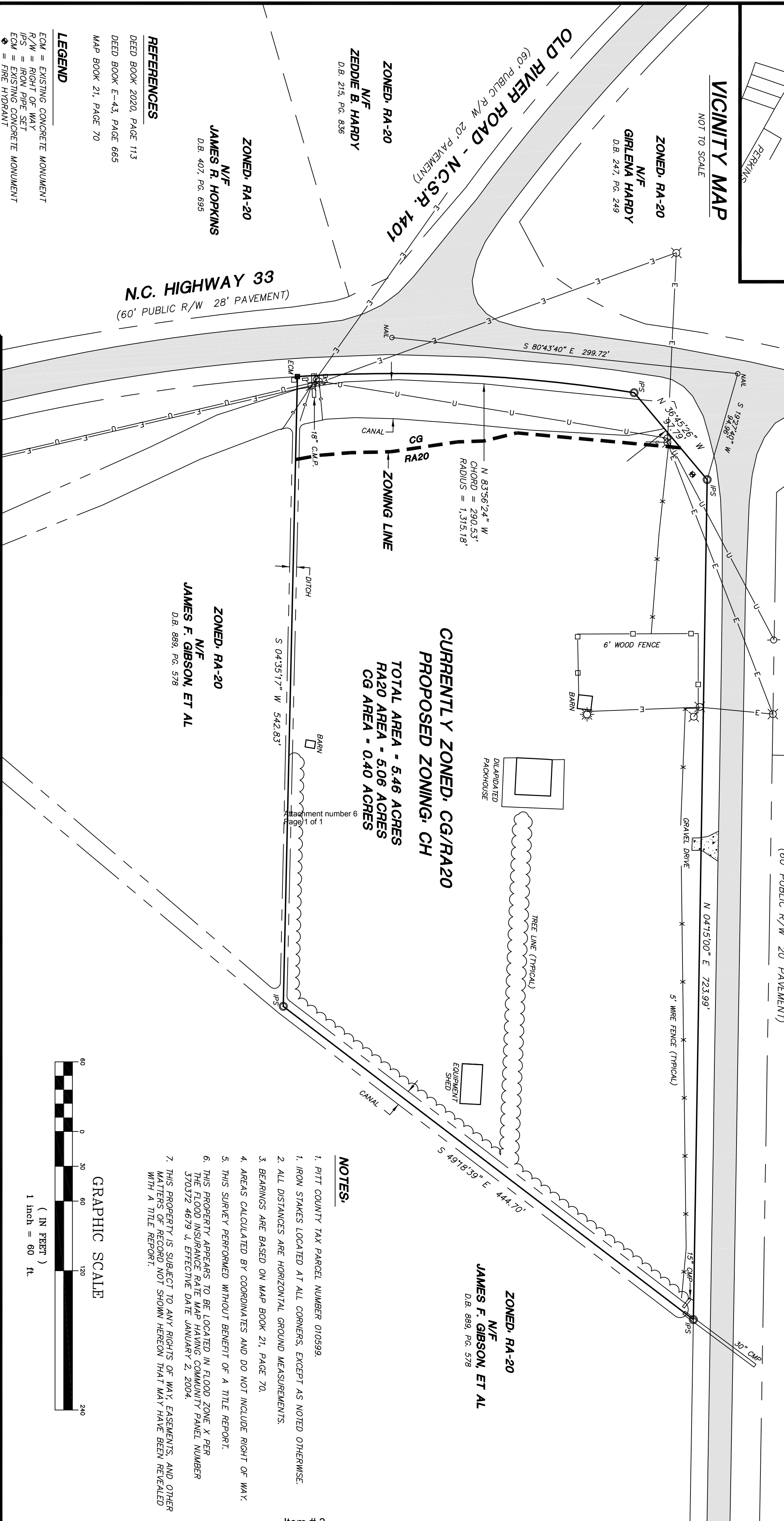
NOT TO SCALE

ZONED, CH
N/F
BOBBY HARDY
D.B. D-41, PG. 570

ZONED, RA-20
N/F
ANNIE M. KEITT
D.B. 87, PG. 579

MAP BOOK 21, PAGE 70

SUNNYBROOK ROAD - N.C.S.R. 1440
(60' PUBLIC R/W 20' PAVEMENT)



ZONED, RA-20
N/F
ZEDDIE B. HARDY
D.B. 215, PG. 838

ZONED, RA-20
N/F
JAMES R. HOPKINS
D.B. 407, PG. 695

ZONED, RA-20
N/F
JAMES F. GIBSON, ET AL
D.B. 889, PG. 578

ZONED, RA-20
N/F
JAMES F. GIBSON, ET AL
D.B. 889, PG. 578

- REFERENCES**
- DEED BOOK 2020, PAGE 113
 - DEED BOOK E-43, PAGE 665
 - MAP BOOK 21, PAGE 70

- LEGEND**
- ECM = EXISTING CONCRETE MONUMENT
 - R/W = RIGHT OF WAY
 - R/S = IRON PIPE SET
 - EGM = EXISTING CONCRETE MONUMENT
 - X = FIRE HYDRANT
 - ⊕ = POWER POLE
 - ⊙ = UTILITY POLE
 - ⊙ = LIGHT POLE
 - ⊙ = GUY WIRES
 - ⊙ = TELEPHONE/FIBER OPTIC BOX
 - U- = OVERHEAD UTILITY LINE
 - E- = OVERHEAD ELECTRIC LINE

SITE SUMMARY:

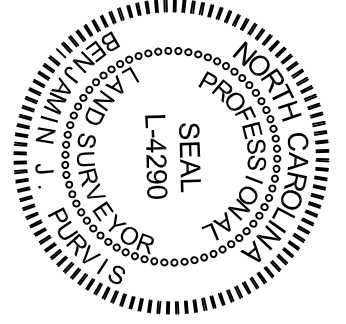
TOTAL AREA 5.46 ACRES

OFFICER OF PITT COUNTY CERTIFY THAT THE MAP OR PLAT TO WHICH THIS CERTIFICATION IS AFFIXED MEETS ALL STATUTORY REQUIREMENTS FOR RECORDING.

REVIEW

REVIEW OFFICER

DATE

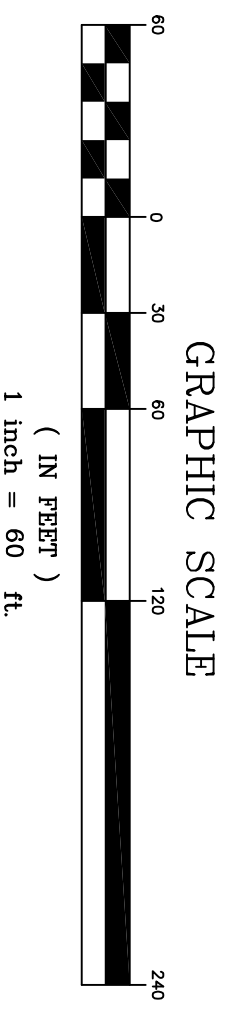


I, BENJAMIN J. PURVIS, HEREBY CERTIFY THAT THIS PLAT WAS DRAWN BY ME FROM AN ACTUAL FIELD SURVEY PERFORMED BY ME FROM DEED DESCRIPTIONS RECORDED IN DEED BOOK 2020, PAGE 113; THAT THE BOUNDARIES NOT SURVEYED ARE SHOWN AS BROKEN LINES PLOTTED FROM INFORMATION FOUND IN BOOKS REFERENCED HEREON; THAT THE RATIO OF PRECISION AS CALCULATED BY LATITUDES AND DEPARTURES IS 1:7500+; THAT THIS MAP WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED; I FURTHER CERTIFY PURSUANT TO G.S. 47-30 (1) (11) G. 1. THAT THE SURVEY IS OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET; WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS 2ND DAY OF MARCH, A.D., 2010.

Benjamin J. Purvis
BENJAMIN J. PURVIS, P.L.S.

NOTES:

- PITT COUNTY TAX PARCEL NUMBER 010599.
- IRON STAKES LOCATED AT ALL CORNERS, EXCEPT AS NOTED OTHERWISE.
- ALL DISTANCES ARE HORIZONTAL GROUND MEASUREMENTS.
- BEARINGS ARE BASED ON MAP BOOK 21, PAGE 70.
- AREAS CALCULATED BY COORDINATES AND DO NOT INCLUDE RIGHT OF WAY.
- THIS SURVEY PERFORMED WITHOUT BENEFIT OF A TITLE REPORT.
- THIS PROPERTY APPEARS TO BE LOCATED IN FLOOD ZONE X PER THE FLOOD INSURANCE RATE MAP HAVING COMMUNITY PANEL NUMBER 370372 4679 J EFFECTIVE DATE JANUARY 2, 2004.
- THIS PROPERTY IS SUBJECT TO ANY RIGHTS OF WAY, EASEMENTS, AND OTHER MATTERS OF RECORD NOT SHOWN HEREON THAT MAY HAVE BEEN REVEALED WITH A TITLE REPORT.



REZONING PLAT FOR

ADRIAN WIKE AND MARY D. OWENS
BEING A 5.46 ACRE PARCEL OF LAND LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF N.C. HWY. 33 AND N.C.S.R. 1440 GREENVILLE TOWNSHIP, PITT COUNTY, NORTH CAROLINA

BENJAMIN J. PURVIS, P.L.S.
2004 B. EAST 3RD. ST.
Greenville, N.C. 27858
(252) 341-5588

SURVEYED	APPROVED
BJP	BJP
DRAWN	DATE
BJP	01-04-10
CHECKED	SCALE
BJP	1" = 60'

BUFFERYARD SETBACK AND VEGETATION SCREENING CHART

For Illustrative Purposes Only

Bufferyard Requirements: Match proposed land use with adjacent permitted land use or adjacent vacant zone/nonconforming use to determine applicable bufferyard.

PROPOSED LAND USE CLASS (#)	ADJACENT PERMITTED LAND USE CLASS (#)					ADJACENT VACANT ZONE OR NONCONFORMING USE		PUBLIC/PRIVATE STREETS OR R.R.
	Single-Family Residential (1)	Multi-Family Residential (2)	Office/Institutional, light Commercial, Service (3)	Heavy Commercial, Light Industry (4)	Heavy Industrial (5)	Residential (1) - (2)	Non-Residential (3) - (5)	
Multi-Family Development (2)	C	B	B	B	B	C	B	A
Office/Institutional, Light Commercial, Service (3)	D	D	B	B	B	D	B	A
Heavy Commercial, Light Industry (4)	E	E	B	B	B	E	B	A
Heavy Industrial (5)	F	F	B	B	B	F	B	A

Bufferyard A (street yard)

Lot Size	Width	For every 100 linear feet
Less than 25,000 sq.ft.	4'	2 large street trees
25,000 to 175,000 sq.ft.	6'	2 large street trees
Over 175,000 sq.ft.	10'	2 large street trees

Street trees may count toward the minimum acreage.

Bufferyard B (no screen required)

Lot Size	Width
Less than 25,000 sq.ft.	4'
25,000 to 175,000 sq.ft.	6'
Over 175,000 sq.ft.	10'

Bufferyard C (screen required)

Width	For every 100 linear feet
10'	3 large evergreen trees 4 small evergreens 16 evergreen shrubs

Where a fence or evergreen hedge (additional materials) is provided, the bufferyard width may be reduced to eight (8) feet.

Bufferyard D (screen required)

Width	For every 100 linear feet
20'	4 large evergreen trees 6 small evergreens 16 evergreen shrubs

Bufferyard width may be reduced by fifty (50%) percent if a fence, evergreen hedge (additional material) or earth berm is provided.

Bufferyard E (screen required)

Width	For every 100 linear feet
30'	6 large evergreen trees 8 small evergreens 26 evergreen shrubs

Bufferyard width may be reduced by fifty (50%) percent if a fence, evergreen hedge (additional material) or earth berm is provided.

Bufferyard F (screen required)

Width	For every 100 linear feet
50'	8 large evergreen trees 10 small evergreens 36 evergreen shrubs

Bufferyard width may be reduced by fifty (50%) percent if a fence, evergreen hedge (additional material) or earth berm is provided.

Parking Area: Thirty (30) inch high screen required for all parking areas located within fifty (50) feet of a street right-of-way.



City of Greenville, North Carolina

Meeting Date: 4/8/2010
Time: 7:00 PM

Title of Item: Ordinance requested by the Redevelopment Commission of Greenville to rezone 0.59 acres located between Vance and Contentnea Streets and north of West 5th Street from CDF (Downtown Commercial Fringe) and R6 (Residential [High Density Multi-family]) to OR (Office-Residential [High Density Multi-family])

Explanation:

Required Notice:

Planning and Zoning Commission meeting notice (property owner(s) and adjoining property owners' letters) mailed on March 2, 2010.

On-site sign(s) posted on March 2, 2010.

City Council public hearing notice (property owner(s) and adjoining property owners' letters) mailed on March 23, 2010.

Public hearing advertisement published on March 29 and April 5, 2010.

Comprehensive Plan:

The subject property is located in Vision Area F.

West 5th Street is considered a "residential corridor" from South Pitt Street to Memorial Drive. Along residential corridors, office, service and retail activities should be specifically restricted to the associated focus area and linear expansion outside of the focus node should be prohibited.

The Future Land Use Plan Map recommends mixed use/office/institutional (MOI) along the northern right-of-way of West 5th Street from Elizabeth Street to Nash Street transitioning to medium density residential (MDR) in the interior areas.

There is a designated neighborhood focus area located at the intersection of West 5th Street and Tyson Street and West 14th Avenue. These nodes typically contain 20,000 to 40,000 square feet of conditioned floor space.

Thoroughfare/Traffic Volume Report Summary (PWD - Engineering

Division):

The proposed rezoning will have no change in maximum allowable density; therefore, a traffic analysis was not performed.

History/Background:

The property was zoned RA20 and CG on the 1976 rezoning series map.

Present Land Use:

Currently, the property contains the former Chasers Lounge, a vacant lot, one (1) single-family residence and one (1) office building.

Water/Sewer:

Water and sanitary sewer are located in the rights-of-way of West 5th Street and Ward Street.

Historic Sites:

All of the lots, except for the former Chasers Lounge lot, are included in the Skinnerville-Greenville Heights National Register Historic District. National Register designation is an honorary designation and does not regulate the appearance of structures contained within the district.

Environmental Conditions/Constraints:

There are no known environmental constraints.

Surrounding Land Uses and Zoning:

North: R6 - Two (2) duplex buildings, two (2) single-family residences and one (1) vacant lot

South: CDF/R6 - The Little Willie Center and three (3) vacant lots

East: R6 - West Greenville Community Development Center (vacant)

West: CDF - One (1) single-family residence

Density Estimates:

Currently, all the lots are developed except for one vacant lot. Under the current zoning (CDF), there is a 6,500+/- square foot commercial building. Under the current zoning (R6), there is one (1) single-family dwelling, one (1) vacant lot and one (1) office building.

Under the proposed zoning (OR), the commercial building could be converted to an office building. There is no change in density between the current zoning (R6) and the proposed zoning (OR). Both districts allow multi-family units (up to 17 units per acre). Therefore, no change in density. There is an additional office option under the proposed (OR) district.

Fiscal Note: No cost to the City.

Recommendation: In staff's opinion, the request is in compliance with Horizon's Greenville's Community Plan, the Future Land Use Plan Map and the West Greenville Redevelopment Plan.

"In compliance with the comprehensive plan" should be construed as meaning the requested rezoning is (i) either specifically recommended in the text of the Horizons Plan (or addendum to the plan) or is predominantly or completely surrounded by the same or compatible and desirable zoning; and (ii) promotes the desired urban form. The requested district is considered desirable and in the public interest and staff recommends approval of the requested rezoning.

The Planning and Zoning Commission voted to approve the request at its March 16, 2010, meeting.

Note: In addition to other criteria, the Planning and Zoning Commission and City Council shall consider the entire range of permitted and special uses for the existing and proposed districts as listed under Title 9, Chapter 4, Article D of the Greenville City Code.

If City Council determines to approve the request, a motion to adopt the attached rezoning ordinance will accomplish this. The ordinance includes the statutorily required statement describing whether the action taken is consistent with the comprehensive plan and explaining why Council considers the action taken to be reasonable and in the public interest.

If City Council determines to deny the rezoning request, in order to comply with this statutory requirement, it is recommended that the motion be as follows: Motion to deny the proposed amendment and to make a finding and determination that, although the rezoning request is consistent with the comprehensive plan, there is a more appropriate zoning classification and therefore, denial is reasonable and in the public interest.

Viewing Attachments Requires Adobe Acrobat. [Click here](#) to download.

Attachments / click to download

[Location Map](#)

[Bufferyard and Vegetation Chart](#)

[Ordinance Redevelopment Comm 858444](#)

[Excerpt from 3.16.10 P.Z Minutes for Redevelopment Commission 860087](#)

[List of Uses CDF R6 to OR 719111](#)

ORDINANCE NO. 10-
AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF GREENVILLE
REZONING TERRITORY LOCATED WITHIN THE PLANNING AND ZONING
JURISDICTION OF THE CITY OF GREENVILLE, NORTH CAROLINA

WHEREAS, the City Council of the City of Greenville, North Carolina, in accordance with Article 19, Chapter 160A, of the General Statutes of North Carolina, caused a public notice to be given and published once a week for two successive weeks in The Daily Reflector setting forth that the City Council would, on April 8, 2010, at 7:00 p.m., in the City Council Chambers of City Hall in the City of Greenville, NC, conduct a public hearing on the adoption of an ordinance rezoning the following described territory;

WHEREAS, the City Council has been informed of and has considered all of the permitted and special uses of the districts under consideration; and,

WHEREAS, in accordance with the provisions of North Carolina General Statute 160A-383, the City Council does hereby find and determine that the adoption of the ordinance rezoning the following described property is consistent with the adopted comprehensive plan and that the adoption of the ordinance rezoning the following described property is reasonable and in the public interest due to its consistency with the comprehensive plan and, as a result, its furtherance of the goals and objectives of the comprehensive plan.

THE CITY COUNCIL OF THE CITY OF GREENVILLE, NORTH CAROLINA, DOES HEREBY ORDAIN:

Section 1. That the following described territory is rezoned from CDF (Downtown Commercial Fringe) and R6 (Residential) to OR (Office-Residential).

TO WIT: Redevelopment Commission of Greenville and Arthur Wallace Properties.

LOCATION: Located between Vance and Contentnea Streets and north of West 5th Street.

DESCRIPTION:

Beginning at a known point, said point being the northeast corner of the intersection of West 5th Street and Vance Street, running along the northern right-of-way of West 5th Street in an easterly direction for 220± feet; thence cornering and running along the western right-of-way of Contentnea Street in a northerly direction for 105± feet; thence cornering and running along the northern property lines of the properties identified as Pitt County parcel numbers 00934 and 22377 in a westerly direction for 115± feet; thence cornering and running along the eastern property line of the property identified as Pitt County parcel number 17418 in a northerly direction for 75± feet; thence cornering and running along the southern right-of-way of West 4th Street in a westerly direction for 46± feet; thence cornering and running along the western property line of the property identified as Pitt County parcel number 17418 in a southerly

direction for 90± feet; thence cornering and running along the northern property line of the property identified as Pitt County parcel number 19523 in a westerly direction for 52± feet; thence cornering and running along the eastern right-of-way of Vance Street in a southerly direction for 92± feet returning to the point of beginning and containing 0.59 acres.

Section 2. That the Director of Community Development is directed to amend the zoning map of the City of Greenville in accordance with this ordinance.

Section 3. That all ordinances and clauses of ordinances in conflict with this ordinance are hereby repealed.

Section 4. That this ordinance shall become effective upon its adoption.

ADOPTED this 8th day of April, 2010.

Patricia C. Dunn, Mayor

ATTEST:

Wanda T. Elks, City Clerk

858444

Excerpt from the draft Planning and Zoning Commission meeting minutes (3/16/10):

REQUEST BY THE REDEVELOPMENT COMMISSION OF GREENVILLE - APPROVED

Ordinance requested by the Redevelopment Commission of Greenville to rezone 0.59 acres located between Vance and Contentnea Streets and north of West 5th Street from CDF (Downtown Commercial Fringe) and R6 (Residential [High Density Multi-family]) to OR (Office-Residential [High Density Multi-family]).

Ms. Chantae Gooby stated this rezoning is centrally located in the city along West 5th Street between Vance and Contentnea Streets. The property is currently zoned downtown commercial fringe and multi-family. The requested zoning is office and multi-family. The rezoning consists of four parcels, two of which are owned by the Redevelopment Commission (former Chaser's Club and a vacant lot) and the remaining two parcels (single-family and an office building) owned by a private individual. Both parties have signed the rezoning application. The area contains a variety of uses. The property is not impacted by the floodplain associated with the Tar River. There is a focus area located at the intersection of West 5th Street/Tyson Street/West 14th Avenue. Because there was no change in density, no traffic report was generated. Ms. Gooby said the Future Land Use Plan Map recommends mixed use along West 5th Street. In staff's opinion, this request is in compliance with Horizon's: Greenville's Community Plan, the Future Land Use Plan Map and the West Greenville Redevelopment Plan.

Mr. Bell asked if this would impact the duplexes behind the property.

Ms. Gooby said she did not know what was planned. She did not feel they would be impacted by any additional traffic.

Mr. Merrill Flood spoke on behalf of the Redevelopment Commission. He said they had considered this at their last meeting and recommended moving forward with the request. He told Mr. Bell while you have to consider all of the uses allowed in the proposed zoning, at this point in time, the requested action would not rezone the corner parcel where the duplexes are located.

No one spoke in opposition.

Motion was made by Mr. Thomas, seconded by Mr. Ramey to recommend approval of the proposed amendment, to advise that it is consistent with the comprehensive plan and other applicable plans and to adopt the staff report which addresses plan consistency and other matters. Motion carried unanimously.

EXISTING ZONING

CDF (Downtown Commercial Fringe)

Permitted Uses

(1) General:

- a. Accessory use or building
- b. Internal service facilities
- c. On- premise signs per Article N
- e. Temporary uses; of listed district uses
- f. Retail sales; incidental
- g. Incidental assembly of products sold at retail or wholesale as an accessory to principle use

(2) Residential:

- a. Single-family dwelling
- b. Two-family attached dwelling (duplex)
- c. Multi-family development per Article 1
- k. Family care home (see also section 9-4-103)
- q. Room renting

(3) Home Occupations (see all categories):

*None

(4) Governmental:

- b. City of Greenville municipal government building or use (see also section 9-4-103)
- c. County or state government building or use not otherwise listed; excluding outside storage and major or minor repair
- d. Federal government building or use
- g. Liquor store, state ABC

(5) Agricultural/ Mining:

- a. Farming; agriculture, horticulture, forestry (see also section 9-4-103)

(6) Recreational/ Entertainment:

- f. Public park or recreational facility
- g. Private noncommercial park or recreation facility
- o. Theater; movie or drama, including outdoor facility

(7) Office/ Financial/ Medical:

- a. Office; professional and business, not otherwise listed
- c. Office; customer service not otherwise listed, including accessory service delivery vehicle parking and indoor storage
- d. Bank, savings and loan or other savings or investment institutions
- e. Medical, dental, ophthalmology or similar clinic, not otherwise listed

(8) Services:

- c. Funeral home
- e. Barber or beauty shop
- f. Manicure, pedicure, or facial salon
- g. School; junior and senior high (see also section 9-4-103)
- h. School; elementary (see also section 9-4-103)
- i. School; kindergarten or nursery (see also section 9-4-103)
- k. Business or trade school
- n. Auditorium
- o. Church or place of worship (see also section 9-4-103)
- p. Library

- q. Museum
- r. Art Gallery
- s. Hotel, motel, bed and breakfast inn; limited stay lodging (see also residential quarters for resident manager, supervisor or caretaker and section 9-4-103)
- u. Art studio including art and supply sales
- v. Photography studio including photo and supply sales
- w. Recording studio
- z. Printing or publishing service including graphic art, map, newspapers, magazines and books
- aa. Catering service including food preparation (see also restaurant; conventional and fast food)
- kk. Launderette; household users
- ll. Dry cleaners; household users
- mm. Commercial laundries; linen supply
- oo. Clothes alteration or shoe repair shop
- pp. Automobile wash

(9) Repair:

- d. Upholsterer; furniture
- f. Appliance; household and office equipment repair
- g. Jewelry, watch, eyewear or other personal item repair

(10) Retail Trade:

- a. Miscellaneous retail sales; non-durable goods, not otherwise listed
- c. Grocery; food or beverage, off premise consumption (see also Wine Shop)
- c.1 Wine shop (see also section 9-4-103)
- d. Pharmacy
- e. Convenience store (see also gasoline sales)
- f. Office and school supply, equipment sales
- h. Restaurant; conventional
- i. Restaurant; fast food
- l. Electric; stereo, radio, computer, television, etc. sales and accessory repair
- m. Appliance; household use, sales and accessory repair, excluding outside storage
- n. Appliance; commercial use, sales and accessory repair, excluding outside storage
- p. Furniture and home furnishing sales not otherwise listed
- q. Floor covering, carpet and wall covering sales
- r. Antique sales; excluding vehicles
- s. Book or card store, news stand
- v. Video or music store; records, tape, compact disk, etc. sales
- w. Florist
- x. Sporting goods sales and rental shop
- y. Auto part sales (see also major and minor repair)
- ee. Christmas tree sales lot; temporary only (see also section 9-4-103)

(11) Wholesale/ Rental/ Vehicle- Mobile Home Trade:

- c. Rental of cloths and accessories; formal wear, etc.
- f. Automobiles, truck, recreational vehicle, motorcycles and boat sales and service (see also major and minor repair)

(12) Construction:

- a. Licensed contractor; general, electrical, plumbing, mechanical, etc. excluding outside storage
- c. Construction office; temporary, including modular office (see also section 9-4-103)
- e. Building supply; lumber and materials sales, plumbing and/or electrical supply excluding outside storage
- f. Hardware store

(13) Transportation:

- b. Bus station; passenger and related freight
- c. Taxi or limousine service
- e. Parcel delivery service
- f. Ambulance service

(14) Manufacturing/ Warehousing:

- c. Bakery; production, storage and shipment facilities

(15) Other Activities (not otherwise listed - all categories):

* None

CDF (Downtown Commercial Fringe)

Special Uses

(1) General:

* None

(2) Residential:

- d. Land use intensity multifamily (LUI) development rating 50 per Article K
- e. Land use intensity multifamily (LUI) development rating 67 per Article K
- j. Residential quarters for resident manager, supervisor or caretaker; including mobile homes
- m. Shelter for homeless or abused
- n. Retirement center or home
- o. Nursing, convalescent center or maternity home; major care facility
- o.(1). Nursing, convalescent center or maternity home; minor care facility
- r. Fraternity or sorority house

(3) Home Occupations (see all categories):

- a. Home occupation; including barber and beauty shops
- c. Home occupation; including manicure, pedicure or facial salon

(4) Governmental:

- a. Public utility building or use

(5) Agricultural/ Mining:

* None

(6) Recreational/ Entertainment:

- d. Game center
- i. Commercial recreation; indoor and outdoor not otherwise listed
- l. Billiard parlor or pool hall
- m. Public or private club

(7) Office/ Financial/ Medical:

* None

(8) Services:

- a. Child day care facilities
- b. Adult day care facilities
- l. Convention center; private
- x. Dance studio
- bb. Civic organizations
- cc. Trade or business organizations
- hh. Exercise and weight loss studios; indoor only

(9) Repair:

- a. Major repair; as an accessory or principal use
- b. Minor repair; as an accessory or principal use

(10) Retail Trade:

- b. Gasoline or automotive fuel sales; accessory or principal use, retail
- g. Fish market; excluding processing or packing
- j. Restaurant; regulated outdoor activities
- t. Hobby or craft shop
- u. Pet shop (see also animal boarding; outside facility)

(11) Wholesale/ Rental/ Vehicle- Mobile Home Trade:

* None

(12) Construction:

- d. Building supply; lumber and materials sales, plumbing and/or electrical supply including outside storage

(13) Transportation:

- h. Parking lot or structure; principal use

(14) Manufacturing/ Warehousing:

- g. Cabinet, woodwork or frame shop; excluding furniture manufacturing or upholstery

(15) Other Activities (not otherwise listed - all categories):

- a. Other activities; personal services not otherwise listed
- b. Other activities; professional activities not otherwise listed
- c. Other activities; commercial services not otherwise listed
- d. Other activities; retail sales not otherwise listed

R6 (Residential)

Permitted Uses

(1) General:

- a. Accessory use or building
- c. On- premise signs per Article N

(2) Residential:

- a. Single-family dwelling
- b. Two-family attached dwelling (duplex)
- c. Multi-family development per Article I
- f. Residential cluster development per Article M
- k. Family care home (see also section 9-4-103)
- q. Room renting

(3) Home Occupations (see all categories):

*None

(4) Governmental:

- b. City of Greenville municipal government building or use (see also section 9-4-103)

(5) Agricultural/ Mining:

- a. Farming; agriculture, horticulture, forestry (see also section 9-4-103)

(6) Recreational/ Entertainment:

- f. Public park or recreational facility

g. Private noncommercial park or recreational facility

(7) Office/ Financial/ Medical:

* None

(8) Services:

o. Church or place of worship (see also section 9-4-103)

(9) Repair:

* None

(10) Retail Trade:

* None

(11) Wholesale/ Rental/ Vehicle- Mobile Home Trade:

* None

(12) Construction:

a. Construction office; temporary, including modular office (see also section 9-4-103)

(13) Transportation:

* None

(14) Manufacturing/ Warehousing:

* None

(15) Other Activities (not otherwise listed - all categories):

* None

R6 (Residential)

Special Uses

(1) General:

* None

(2) Residential:

d. Land use intensity multifamily (LUI) development rating 50 per Article K

e. Land use intensity dormitory (LUI) development rating 67 per Article K

l. Group care facility

n. Retirement center or home

p. Board or rooming house

r. Fraternity or sorority house

o.(1). Nursing, convalescent center or maternity home; minor care facility

(3) Home Occupations (see all categories):

a. Home occupation; including barber and beauty shops

c. Home occupation; including manicure, pedicure or facial salon

(4) Governmental:

a. Public utility building or use

(5) Agricultural/ Mining:

* None

(6) Recreational/ Entertainment:

a. Golf course; regulation

c.(1). Tennis club; indoor and outdoor facilities

(7) Office/ Financial/ Medical:

* None

(8) Services:

- a. Child day care facilities
- b. Adult day care facilities
- d. Cemetery
- g. School; junior and senior high (see also section 9-4-103)
- h. School; elementary (see also section 9-4-103)
- i. School; kindergarten or nursery (see also section 9-4-103)
- m. Multi-purpose center
- t. Guest house for a college and other institutions of higher learning

(9) Repair:

* None

(10) Retail Trade:

* None

(11) Wholesale/ Rental/ Vehicle- Mobile Home Trade:

* None

(12) Construction:

* None

(13) Transportation:

* None

(14) Manufacturing/ Warehousing:

* None

(15) Other Activities (not otherwise listed - all categories):

* None

PROPOSED ZONING

OR (Office-Residential)

Permitted Uses

(1) General:

- a. Accessory use or building
- b. Internal service facilities
- c. On- premise signs per Article N
- f. Retail sales incidental

(2) Residential:

- b. Two-family attached dwelling (duplex)
- c. Multi-family development per Article 1
- k. Family care home (see also section 9-4-103)
- n. Retirement center or home
- o. Nursing, convalescent center or maternity home; major care facility
- p. Board or rooming house
- q. Room renting

(3) Home Occupations (see all categories):

*None

(4) Governmental:

- b. City of Greenville municipal government building or use (see also section 9-4-103)
- c. County or state government building or use not otherwise listed; excluding outside storage and major or minor repair
- d. Federal government building or use

(5) Agricultural/ Mining:

- a. Farming; agriculture, horticulture, forestry (see also section 9-4-103)

(6) Recreational/ Entertainment:

- f. Public park or recreational facility
- g. Private noncommercial park or recreation facility

(7) Office/ Financial/ Medical:

- a. Office; professional and business, not otherwise listed
- b. Operational/processing center
- c. Office; customer service not otherwise listed, including accessory service delivery vehicle parking and indoor storage
- d. Bank, savings and loan or other savings or investment institutions
- e. Medical, dental, ophthalmology or similar clinic, not otherwise listed

(8) Services:

- c. Funeral home
- e. Barber or beauty shop
- f. Manicure, pedicure, or facial salon
- g. School; junior and senior high (see also section 9-4-103)
- h. School; elementary (see also section 9-4-103)
- i. School; kindergarten or nursery (see also section 9-4-103)
- j. College or other institutions of higher learning
- k. Business or trade school
- n. Auditorium
- o. Church or place of worship (see also section 9-4-103)
- p. Library
- q. Museum
- r. Art Gallery
- u. Art studio including art and supply sales
- v. Photography studio including photo and supply sales
- w. Recording studio
- x. Dance studio
- bb. Civic organizations
- cc. Trade or business organizations

(9) Repair:

* None

(10) Retail Trade:

- s. Book or card store, news stand
- w. Florist

(11) Wholesale/ Rental/ Vehicle- Mobile Home Trade:

* None

(12) Construction:

- a. Licensed contractor; general, electrical, plumbing, mechanical, etc. excluding outside storage
- c. Construction office; temporary, including modular office (see also section 9-4-103)

(13) Transportation:

* None

(14) Manufacturing/ Warehousing:

* None

(15) Other Activities (not otherwise listed - all categories):

* None

OR (Office-Residential)

Special Uses

(1) General:

* None

(2) Residential:

- d. Land use intensity multifamily (LUI) development rating 50 per Article K
- e. Land use intensity dormitory (LUI) development rating 67 per Article K
- i. Residential quarters for resident manager, supervisor or caretaker; excluding mobile home
- o.(1). Nursing, convalescent center or maternity home; minor care facility
- r. Fraternity or sorority house

(3) Home Occupations (see all categories):

* None

(4) Governmental:

- a. Public utility building or use

(5) Agricultural/ Mining:

* None

(6) Recreational/ Entertainment:

- c.(1). Tennis club; indoor and outdoor facilities
- h. Commercial recreation; indoor only, not otherwise listed

(7) Office/ Financial/ Medical:

- f. Veterinary clinic or animal hospital (also see animal boarding; outside facility, kennel and stable)

(8) Services:

- a. Child day care facilities
- b. Adult day care facilities
- l. Convention center; private
- s. Hotel, motel, bed and breakfast inn; limited stay lodging (see also residential quarters for resident manager, supervisor or caretaker and section 9-4-103)
- ff. Mental health, emotional or physical rehabilitation center

(9) Repair:

* None

(10) Retail Trade:

- h. Restaurant; conventional

j. Restaurant; regulated outdoor activities

(11) Wholesale/ Rental/ Vehicle- Mobile Home Trade:

* None

(12) Construction:

* None

(13) Transportation:

h. Parking lot or structure; principle use

(14) Manufacturing/ Warehousing:

* None

(15) Other Activities (not otherwise listed - all categories):

a. Other activities; personal services not otherwise listed

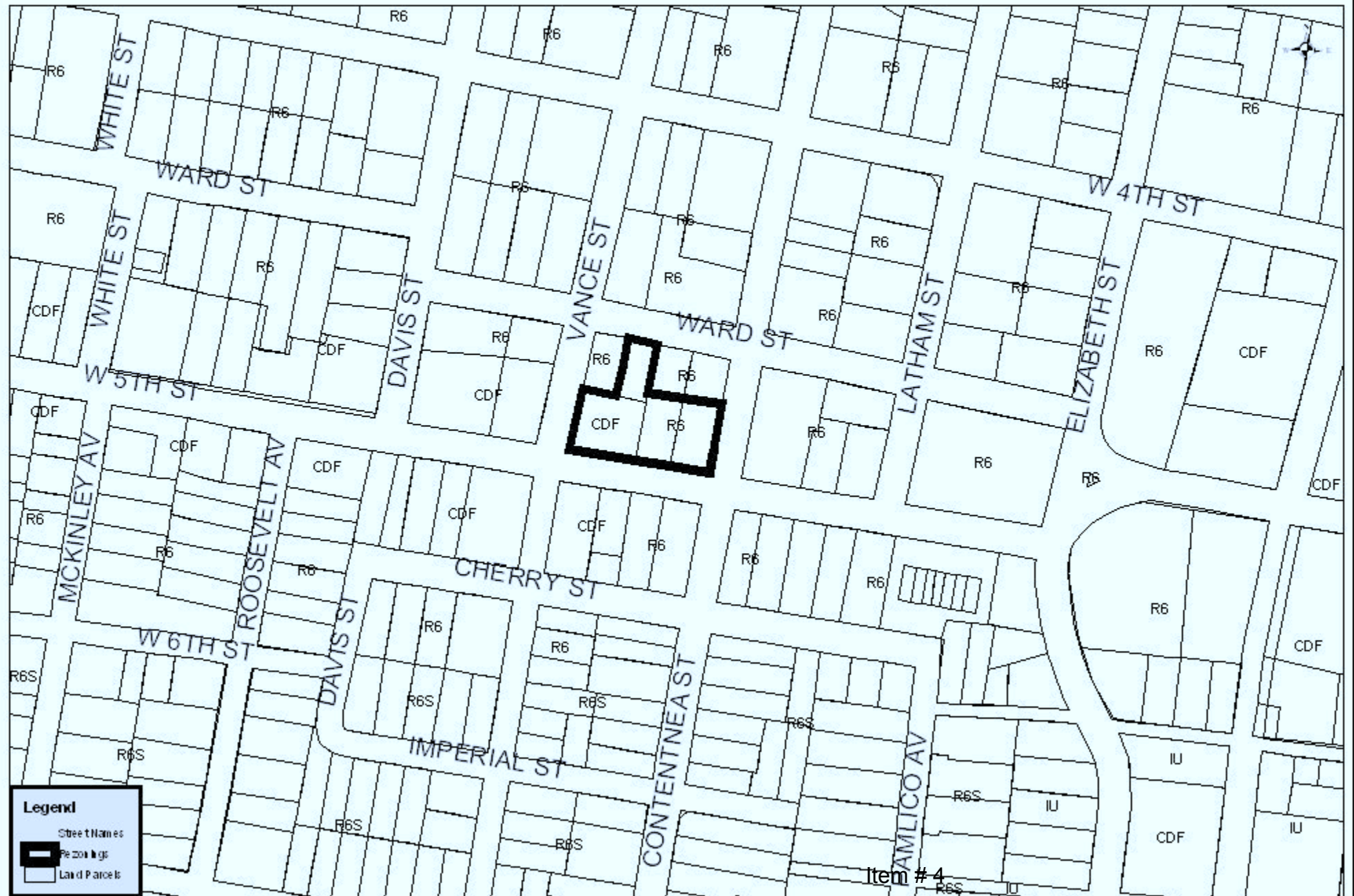
b. Other activities; professional services not otherwise listed

Redevelopment Commission of Greenville (10-02)

From: CDF, R6 to OR

0.59 acres

February 23, 2010



BUFFERYARD SETBACK AND VEGETATION SCREENING CHART

For Illustrative Purposes Only

Bufferyard Requirements: Match proposed land use with adjacent permitted land use or adjacent vacant zone/nonconforming use to determine applicable bufferyard.

PROPOSED LAND USE CLASS (#)	ADJACENT PERMITTED LAND USE CLASS (#)					ADJACENT VACANT ZONE OR NONCONFORMING USE		PUBLIC/PRIVATE STREETS OR R.R.
	Single-Family Residential (1)	Multi-Family Residential (2)	Office/Institutional, light Commercial, Service (3)	Heavy Commercial, Light Industry (4)	Heavy Industrial (5)	Residential (1) - (2)	Non-Residential (3) - (5)	
Multi-Family Development (2)	C	B	B	B	B	C	B	A
Office/Institutional, Light Commercial, Service (3)	D	D	B	B	B	D	B	A
Heavy Commercial, Light Industry (4)	E	E	B	B	B	E	B	A
Heavy Industrial (5)	F	F	B	B	B	F	B	A

Bufferyard A (street yard)

Lot Size	Width	For every 100 linear feet
Less than 25,000 sq.ft.	4'	2 large street trees
25,000 to 175,000 sq.ft.	6'	2 large street trees
Over 175,000 sq.ft.	10'	2 large street trees

Street trees may count toward the minimum acreage.

Bufferyard B (no screen required)

Lot Size	Width
Less than 25,000 sq.ft.	4'
25,000 to 175,000 sq.ft.	6'
Over 175,000 sq.ft.	10'

Bufferyard C (screen required)

Width	For every 100 linear feet
10'	3 large evergreen trees 4 small evergreens 16 evergreen shrubs

Where a fence or evergreen hedge (additional materials) is provided, the bufferyard width may be reduced to eight (8) feet.

Bufferyard D (screen required)

Width	For every 100 linear feet
20'	4 large evergreen trees 6 small evergreens 16 evergreen shrubs

Bufferyard width may be reduced by fifty (50%) percent if a fence, evergreen hedge (additional material) or earth berm is provided.

Bufferyard E (screen required)

Width	For every 100 linear feet
30'	6 large evergreen trees 8 small evergreens 26 evergreen shrubs

Bufferyard width may be reduced by fifty (50%) percent if a fence, evergreen hedge (additional material) or earth berm is provided.

Bufferyard F (screen required)

Width	For every 100 linear feet
50'	8 large evergreen trees 10 small evergreens 36 evergreen shrubs

Bufferyard width may be reduced by fifty (50%) percent if a fence, evergreen hedge (additional material) or earth berm is provided.

Parking Area: Thirty (30) inch high screen required for all parking areas located within fifty (50) feet of a street right-of-way.



City of Greenville, North Carolina

Meeting Date: 4/8/2010
Time: 7:00 PM

Title of Item: Ordinance requested by the Community Development Department to amend the zoning regulations to include additional Land Use Intensity (LUI) special use permit application submission standards, required findings, and Planning and Zoning Commission consideration criteria

Explanation: Land Use Intensity (LUI) development is a multi-family housing option that is subject to Planning and Zoning Commission special use permit approval in the R6, R6A, MS, MR, OR and CDF districts.

There are two (2) LUI ratings:

LUI - 50 allows only standard multi-family dwellings (apartments, condominiums and town homes) in which each unit may be occupied by one (1) family as defined by the zoning regulations, i.e. not more than three (3) unrelated individuals per unit.

LUI - 67 allows both standard multi-family dwellings and suite/dormitory dwellings in which any unit may be occupied by more than three (3) unrelated individuals, as in the case of a suite style or dormitory arrangement. Although there is no ordinance imposed limitation, the typical unit configuration for "suite style or dormitory" units has been four (4) bedrooms with individual baths configured around a central shared living room and kitchen.

The proposed ordinance does not affect the current LUI development standards or the table of uses.

The proposed ordinance's purpose is to provide additional information and guidance to the Planning and Zoning Commission to assist in the Commission's evaluation of the impact of future LUI developments.

The result of the proposed ordinance is summarized under Sections 1 and 2:

1. Require additional special use permit application information including (i) site location of all proposed and existing buildings, structures, streets, drives, parking, screening, berms, landscaping, open spaces, active recreation areas and facilities, storm water structures facilities, regulated wetlands, flood hazard areas, environmental limitations, utilities and other improvements per the Land Development Administrative Manual; and (ii) typical building and unit facade illustrations including balconies, porches, patios, decorative and/or functional walls and fences.

2. Include additional special use permit consideration criteria to assist the Planning and Zoning Commission in the evaluation of health and safety, public welfare and nuisance or hazard conditions effecting and/or resulting from a proposed LUI development. Such considerations include but are not limited to the following:

- The number of persons who can reasonably be expected to live within or frequent the development at any one time.
- The intensity of the proposed development in relation to the intensity of adjoining and area uses.
- The visual impact of the proposed development as viewed from adjacent properties and public street rights-of way.
- The location and extent of exterior physical activities of the proposed use including common recreation areas and facilities, and common and/or private patios, porches, balconies and open spaces.
- The reasonably anticipated noise or other objectionable characteristics that will result from the proposed use, or as a result of any element of project design.
- The safe and convenient location of all on-site parking and drives.
- The existing vehicular traffic on area streets.
- The reasonably anticipated increase in vehicular traffic generated by the proposed development.
- The condition and capacity of area street(s) which will provide access to the proposed development.
- The visibility afforded to both pedestrians and operators of motor vehicles both on-site and off-site.
- The anticipated, existing and designed vehicular and pedestrian movements both on-site and off-site.

The Planning and Zoning Commission may in its discretion attach reasonable conditions to the special use permit and plan that exceed the minimum standards when it is found that such conditions are necessary to insure that the proposed development will be compatible with adjacent areas.

Fiscal Note:

No cost to the City.

Recommendation: In staff's opinion the request is in compliance with Horizons: Greenville's Community Plan.

The Planning and Zoning Commission recommended approval of the ordinance amendment at their March 16, 2010, meeting.

If City Council determines to approve the amendment request, a motion to adopt the attached ordinance will accomplish this. The ordinance includes the statutorily required statement describing whether the action taken is consistent with the comprehensive plan and explaining why Council considers the action taken to be reasonable and in the public interest.

If City Council determines to deny the amendment request, in order to comply with this statutory requirement, it is recommended that the motion be as follows:

Motion to deny the requested text amendment and to make a finding and determination that the denial of the text amendment request is consistent with the adopted comprehensive plan and that the denial of the text amendment request is reasonable and in the public interest due to the denial being consistent with the comprehensive plan and, as a result, the denial furthers the goals and objectives of the comprehensive plan.

Viewing Attachments Requires Adobe Acrobat. [Click here](#) to download.

Attachments / click to download

[Land Use Intensity amendment 855677](#)

[Excerpt from the March 16 2010 P Z minutes for LUI Amendment 860386](#)

ORDINANCE NO. 10 - ____
AN ORDINANCE AMENDING THE ZONING ORDINANCE
OF THE CITY OF GREENVILLE, NORTH CAROLINA

WHEREAS, the City Council of the City of Greenville, North Carolina, in accordance with Article 19, Chapter 160A, of the North Carolina General Statutes, caused a public notice to be given and published once a week for two successive weeks in The Daily Reflector setting forth that the City Council would, on April 8, 2010 at 7:00 p.m., in the Council Chambers of City Hall in the City of Greenville, NC, conduct a public hearing on the adoption of an ordinance amending the City Code; and

WHEREAS, in accordance with the provisions of North Carolina General Statute 160A-383, the City Council does hereby find and determine that the adoption of the ordinance involving the text amendment is consistent with the adopted comprehensive plan and that the adoption of the ordinance involving the text amendment is reasonable and in the public interest due to its consistency with the comprehensive plan and, as a result, its furtherance of the goals and objectives of the comprehensive plan.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF GREENVILLE, NORTH CAROLINA, DOES HEREBY ORDAIN:

Section 1: That Title 9, Chapter 4, Article K, Section 9-4-186, of the City Code, is hereby amended by deleting subsections (A), (B), (C), (D), (E) and (F) in their entirety and substituting the following:

“(A) *Application.* The applicant for a special use permit to develop a specific land use intensity project shall submit all information as required herein to the Director of Community Development not less than twenty (20) working days prior to the scheduled Planning and Zoning Commission meeting. Application shall only be made in accordance with Appendix A, Permitted and Special Use, and at the LUI rating specified for the particular use.

(B) *Content; required review.* The special use permit application shall include (i) a site plan illustrating all buildings, structures, streets, drives, parking, screening, berms, landscaping, open spaces, active recreation areas and facilities, storm water structures, wetlands, flood hazard areas, environmental limitations, utilities and other improvements per the Land Development Administrative Manual, (ii) typical building and unit façade illustrations including balconies, porches, patios, decorative and/or functional walls and fences, and (iii) all additional information necessary for the Planning and Zoning Commission to insure compliance with this article or other ordinances or regulations of the City of Greenville and Greenville Utilities Commission. All applications shall be reviewed and administered in accordance with Title 9, Chapter 5, Subdivisions of the Greenville City Code for preliminary subdivision plats.

(C) *Public hearing.* The Planning and Zoning Commission shall hold a public hearing to review the special use permit application. The planning and zoning commission may in its discretion attach reasonable conditions to the plan to insure that the purposes of the land use intensity development as stated in section 9-4-179 can be met.

(D) *Conditions of approval.* The Planning and Zoning Commission may in its discretion attach conditions to the plan that exceed the minimum standards as set forth herein when it is found that such conditions are necessary to insure that the proposed development will be compatible with adjacent areas. Such conditions may include, but not be limited to right-of-way setback, drives and parking, screening, landscaping, bufferyard setback, building façade, building configuration, density or other requirements.

(E) *Required findings.* Prior to approval of a special use permit, the planning and zoning commission shall make appropriate findings to insure that the following requirements are met:

- (1) The Planning and Zoning Commission must find that the use has existing or proposed utility services which are adequate for the population densities as proposed.
- (2) The Planning and Zoning Commission must find that the use is properly located in relation to arterial and collector streets and is designed so as to provide direct access without creating traffic which exceeds acceptable capacity as determined by the city engineer on streets in adjacent areas outside the development.
- (3) The Planning and Zoning Commission must find that the use (i) will not adversely affect the health or safety of persons residing or working in the neighborhood of the proposed use, (ii) will not be detrimental to the public welfare, and (iii) will not constitute a nuisance or hazard, if located and developed according to the plan as submitted and approved. Such health and safety, public welfare and nuisance or hazard considerations include but are not limited to the following:
 - (a) The number of persons who can reasonably be expected to live within or frequent the development at any one time.
 - (d) The intensity of the proposed development in relation to the intensity of adjoining and area uses.
 - (c) The visual impact of the proposed development as viewed from adjacent properties and public street rights-of way.
 - (d) The location and extent of exterior physical activities of the proposed use including common recreation areas and facilities, and common and/or private patios, porches, balconies and open spaces.
 - (e) The reasonably anticipated noise or other objectionable characteristics that will result from the proposed use, or as a result of any element of project design.
 - (f) The safe and convenient location of all on-site parking and drives.
 - (g) The existing vehicular traffic on area streets.
 - (h) The reasonably anticipated increase in vehicular traffic generated by the proposed development.
 - (i) The condition and capacity of area street(s) which will provide access to the proposed development.
 - (j) The visibility afforded to both pedestrians and operators of motor vehicles both on-site and off-site.
 - (k) The anticipated, existing and designed vehicular and pedestrian movements both on-site and off-site.

- (4) The Planning and Zoning Commission must find that the use meets all required conditions and specifications.
- (5) The Planning and Zoning Commission must find that the use will not injure, by value or otherwise, adjoining or abutting property or public improvements in the neighborhood or in the alternative, that the use is a public necessity.
- (6) The Planning and Zoning Commission must find that the location and character of the use if developed according to the plan submitted and approved, will be in harmony with the area in which it is to be located and in general conformity with the Comprehensive Land Use Plan of the City of Greenville and its extraterritorial jurisdiction.

(F) *Notice.*

- (1) *Public hearing.* Shall be given in the same manner as for amendments to the zoning ordinance.
- (2) *Adjoining property owners.* Notice of the Planning and Zoning Commission public hearing shall be delivered by first class mail to all owners of property within one hundred (100) feet of the external property boundaries of the proposed development. Such notice shall be postmarked not less than fourteen (14) days prior to the date of the public hearing. Failure to notify all the owners shall not affect the validity of the action provided due diligence has been exercised in the attempts to provide notice.”

Section 2: That Title 9, Chapter 4, Article K, Section 9-4-186(g)(5) of the City Code, is hereby amended by deleting said subsection in its entirety and renumbering subsection (6) as (5).

Section 3. All ordinances or parts of ordinances in conflict herewith are hereby repealed to the extent of such conflict.

Section 4. Any part or provision of this ordinance found by a court of competent jurisdiction to be in violation of the Constitution or laws of the United States or North Carolina is hereby deemed severable and shall not affect the validity of the remaining provisions of the ordinance.

Section 5. This ordinance shall become effective April 8, 2010.

Patricia C. Dunn, Mayor

ATTEST:

Wanda T. Elks, City Clerk

855677

Item # 5

Excerpt from the Draft March 16, 2010 Planning and Zoning Commission Meeting Minutes:

Text Amendment

Request by the Community Development Department to amend the zoning regulations to include additional Land Use Intensity (LUI) special use permit application submission standards, required findings, and Planning and Zoning Commission consideration criteria

Mr. Harry Hamilton said this amendment will provide some additional submission requirements and additional guidance for the Commission. He said the criterion included in this ordinance is the same criteria used by the Board of Adjustment. Mr. Hamilton said Land Use Intensity (LUI) development is a Multi-family option that is subject to P&Z Commission special use permit approval. A public hearing is required as well as first class mail notice and advertisement in the newspaper. The Commission may attach reasonable conditions to the plan to insure compatibility. LUI developments may include both LUI 50, traditional multi-family units (not more than 3 unrelated occupants per dwelling), and LUI 67, which allows dormitory units (no ordinance limit on number of unrelated occupants – suite style configuration with 4 private bed/bath rooms sharing a central living room and kitchen has been the typical arrangement). He said no one to date has proposed more than four bedrooms in a LUI development. The proposed ordinance does not affect the current LUI development standards or the table of uses. The purpose of the proposed ordinance is to provide additional application information and criteria to assist the Planning and Zoning Commission in the Commission's evaluation of the impact of future LUI developments. Mr. Hamilton read the proposed special use permit application requirements.

Mr. Hamilton stated the site geometry requirements include location of all proposed and existing buildings, structures, streets, drives, parking, screening, berms, landscaping, open spaces, active recreation areas and facilities, storm water structures facilities, regulated wetlands, flood hazard areas, environmental limitations, utilities and other improvements per the Land Development Manual, and the appearance related requirements include typical building and unit facade illustrations including balconies, porches, patios, decorative and/or functional walls and fences.

Mr. Hamilton said the ordinance also includes additional special use permit consideration criteria. The purpose is to assist the P&Z Commission in the evaluation of health and safety, public welfare and nuisance or hazard conditions effecting and/or resulting from a proposed LUI development. There are eleven considerations that have been added to the ordinance text. Health and safety, nuisance and other considerations include:

- The number of persons who can reasonably be expected to live within or frequent the development at any one time
- The intensity of the proposed development in relation to the intensity of adjoining and area uses
- The visual impact of the proposed development as viewed from adjacent properties and public street rights-of way

- The location and extent of exterior physical activities of the proposed use including common recreation areas and facilities, and common and/or private patios, porches, balconies and open spaces
- The reasonably anticipated noise or other objectionable characteristics that will result from the proposed use, or as a result of any element of project design
- The safe and convenient location of all on-site parking and drives
- The existing vehicular traffic on area streets
- The reasonably anticipated increase in vehicular traffic generated by the proposed development
- The condition and capacity of area street(s) which will provide access to the proposed development
- The visibility afforded to both pedestrians and operators of motor vehicles both on-site and off-site
- The anticipated, existing and designed vehicular and pedestrian movements both on-site and off-site

Mr. Hamilton said the Planning and Zoning Commission may, in its discretion, attach reasonable conditions to the special use permit and plan that exceed the minimum standards when it is found that such conditions are necessary to insure that the proposed development will be compatible with adjacent areas. In staff's opinion the request is in compliance with Horizon's: Greenville's Community Plan.

Mr. Tozer asked if the commission would set the criteria for what the appearance would be.

Mr. Hamilton said that was one of the things the commission would take into consideration.

No one spoke in opposition to the request.

Motion was made by Mr. Ramey, seconded by Mr. Thomas to recommend approval of the proposed amendment, to advise that it is consistent with the comprehensive plan and other applicable plans and to adopt the staff report which addresses plan consistency and other matters. Motion carried unanimously.



City of Greenville, North Carolina

Meeting Date: 4/8/2010
Time: 7:00 PM

Title of Item: Ordinance requested by the Community Development Department to amend various zoning ordinance provisions to include screening, safety barrier, and dwelling unit separation standards for recycling centers and compactors for both multi-family residential and nonresidential development

Explanation: The ordinance's purposes include:

1. Provide recycling center screening requirements;
2. Provide compactor screening and safety barrier requirements; and
3. Provide dwelling unit separation standards between recycling centers or compactors and dwellings located in multi-family residential developments.

The proposed ordinance does not require the use of recycling centers or compactors. The ordinance does provide location, safety barrier, and screening requirements to be used in those cases where the property owner elects to install recycling centers or elects to utilize a garbage/trash compactor in lieu of standard containers (i.e. dumpsters).

The following is a summary of the proposed recycling center and compactor standards:

- No recycling center shall be located closer than twenty (20) feet to any dwelling structure and no compactor shall be located closer than fifty (50) feet to any dwelling structure. (Note: proposed recycling center setback same as current garbage container (dumpster) setback)
- Recycling centers shall be enclosed on three (3) sides by a complete visual screen consisting of a fence, vegetation or combination thereof (Note: proposed recycling center screening same as current garbage container (dumpster) screening).
- Compactors shall be enclosed by a visual screen and safety barrier composed of an opaque masonry wall and opaque metal or wooden gate,

said wall and gate shall be not less than two (2) feet higher than the highest point of the compactor. The Director of Community Development or representative may approve substitute wall and gate material provided the wall and gate results in an opaque visual screen and safety barrier; vegetation shall not be acceptable for this purpose.

- Recycling centers and compactors shall be in accordance with Title 6, Chapter 3, Garbage and Refuse Collection and Disposal, of the Greenville City Code.

Fiscal Note: No cost to the City.

Recommendation: In staff's opinion the request is in compliance with Horizons: Greenville's Community Plan.

The Planning and Zoning Commission recommended approval of the ordinance amendment at their March 16, 2010, meeting.

If City Council determines to approve the amendment request, a motion to adopt the attached ordinance will accomplish this. The ordinance includes the statutorily required statement describing whether the action taken is consistent with the comprehensive plan and explaining why Council considers the action taken to be reasonable and in the public interest.

If City Council determines to deny the amendment request, in order to comply with this statutory requirement, it is recommended that the motion be as follows:

Motion to deny the requested text amendment and to make a finding and determination that the denial of the text amendment request is consistent with the adopted comprehensive plan and that the denial of the text amendment request is reasonable and in the public interest due to the denial being consistent with the comprehensive plan and, as a result, the denial furthers the goals and objectives of the comprehensive plan.

Viewing Attachments Requires Adobe Acrobat. [Click here](#) to download.

Attachments / click to download

[Refuse compactor and recycling center screening 857399](#)

[Excerpt from the 3_16_10 P Z minutes for recycle centers 860501](#)

ORDINANCE NO. 10 - ___
AN ORDINANCE AMENDING THE ZONING ORDINANCE
OF THE CITY OF GREENVILLE, NORTH CAROLINA

WHEREAS, the City Council of the City of Greenville, North Carolina, in accordance with Article 19, Chapter 160A, of the North Carolina General Statutes, caused a public notice to be given and published once a week for two successive weeks in The Daily Reflector setting forth that the City Council would, on April 8, 2010, at 7:00 p.m. in the Council Chambers of City Hall in the City of Greenville, NC, conduct a public hearing on the adoption of an ordinance amending the City Code; and

WHEREAS, in accordance with the provisions of North Carolina General Statute 160A-383, the City Council does hereby find and determine that the adoption of the ordinance involving the text amendment is consistent with the adopted comprehensive plan and that the adoption of the ordinance involving the text amendment is reasonable and in the public interest due to its consistency with the comprehensive plan and, as a result, its furtherance of the goals and objectives of the comprehensive plan.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF GREENVILLE, NORTH CAROLINA, DOES HEREBY ORDAIN:

Section 1: That Title 9, Chapter 4, Article I, Section 9-4-149, of the City Code, is hereby amended by deleting said section in its entirety and substituting the following:

“Sec. 9-4-149. GARBAGE/TRASH CONTAINER, RECYCLING CENTER AND COMPACTOR LOCATIONS.

(A) No garbage/trash container or recycling center shall be located closer than twenty (20) feet to any dwelling structure and no compactor shall be located closer than fifty (50) feet to any dwelling structure.

(B) Each garbage/trash container required to service the development shall be located within two hundred (200) feet of the dwelling units such container is intended to serve.

(C) Garbage/trash containers and recycling centers shall be enclosed on three (3) sides by a complete visual screen consisting of a fence, vegetation or combination thereof.

(D) Except as further provided, compactors shall be completely enclosed by a visual screen and safety barrier composed of an opaque masonry wall and opaque metal or wooden gate, said wall and gate shall be not less than two (2) feet higher than the highest point of the compactor. The Director of Community Development or designee may approve substitute wall and gate material provided the wall and gate results in an opaque visual screen and safety barrier as required by this subsection; vegetation shall not be acceptable for this purpose.

(E) Garbage/trash containers, recycling centers and compactors shall be in accordance with Title 6, Chapter 3, Garbage and Refuse Collection and Disposal, of the Greenville City Code.”

Section 2: That Title 9, Chapter 4, Article J, Section 9-4-163(P), of the City Code, is hereby amended by deleting said section in its entirety and substituting the following:

“(P) Residential garbage/trash container, recycling center and compactor locations.

(1) No garbage/trash container or recycling center shall be located closer than twenty (20) feet to any dwelling structure and no compactor shall be located closer than fifty (50) feet to any dwelling structure.

(2) Each garbage/trash container required to service the development shall be located within two hundred (200) feet of the dwelling units such container is intended to serve.

(3) Garbage/trash containers and recycling centers shall be enclosed on three (3) sides by a complete visual screen consisting of a fence, vegetation or combination thereof.

(4) Except as further provided, compactors shall be completely enclosed by a visual screen and safety barrier composed of an opaque masonry wall and opaque metal or wooden gate, said wall and gate shall be not less than two (2) feet higher than the highest point of the compactor. The Director of Community Development or designee may approve substitute wall and gate material provided the wall and gate results in an opaque visual screen and safety barrier as required by this subsection; vegetation shall not be acceptable for this purpose.

(5) Garbage/trash containers, recycling centers and compactors shall be in accordance with Title 6, Chapter 3, Garbage and Refuse Collection and Disposal, of the Greenville City Code.”

Section 3: That Title 9, Chapter 4, Article J, Section 9-4-164(J), of the City Code, is hereby amended by deleting said section in its entirety and substituting the following:

“(J) Nonresidential garbage/trash container, recycling center and compactor locations.

(1) Garbage/trash containers and recycling centers shall be enclosed on three (3) sides by a complete visual screen consisting of a fence, vegetation or combination thereof.

(2) Except as further provided, compactors shall be completely enclosed by a visual screen and safety barrier composed of an opaque masonry wall and opaque metal or wooden gate, said wall and gate shall be not less than two (2) feet higher than the highest point of the compactor. The Director of Community Development or designee may approve substitute wall and gate material provided the wall and gate results in an opaque visual screen and safety barrier as required by this subsection; vegetation shall not be acceptable for this purpose.

(3) Garbage/trash containers, recycling centers and compactors shall be in accordance with Title 6, Chapter 3, Garbage and Refuse Collection and Disposal, of the Greenville City Code.”

Section 4: That Title 9, Chapter 4, Article K, Section 9-4-182, of the City Code, is hereby amended by deleting said section in its entirety and substituting the following:

“SEC. 9-4-182. GARBAGE/TRASH CONTAINER, RECYCLING CENTER AND COMPACTOR LOCATIONS

(A) No garbage/trash container or recycling center shall be located closer than twenty (20) feet to any dwelling structure and no compactor shall be located closer than fifty (50) feet to any dwelling structure.

(B) Each garbage/trash container required to service the development shall be located within two hundred (200) feet of the dwelling units such container is intended to serve.

(C) Garbage/trash containers and recycling centers shall be enclosed on three (3) sides by a complete visual screen consisting of a fence, vegetation or combination thereof.

(D) Except as further provided, compactors shall be completely enclosed by a visual screen and safety barrier composed of an opaque masonry wall and opaque metal or wooden gate, said wall and gate shall be not less than two (2) feet higher than the highest point of the compactor. The Director of Community Development or designee may approve substitute wall and gate material provided the wall and gate results in an opaque visual screen and safety barrier as required by this subsection; vegetation shall not be acceptable for this purpose.

(E) Garbage/trash containers, recycling centers and compactors shall be in accordance with Title 6, Chapter 3, Garbage and Refuse Collection and Disposal, of the Greenville City Code.”

Section 5: That Title 9, Chapter 4, Article P, Section 9-4-268(H), of the City Code, is hereby amended by deleting said section in its entirety and substituting the following:

“(H) *Garage/trash container, recycling center and compactor, additional standards.* Except as further provided, in addition to any required visual barrier(s) and/or vegetation improvements, all garbage/trash containers and recycling centers shall be enclosed on three (3) sides by a complete visual screen consisting of a fence, vegetation or combination thereof and compactors shall be completely enclosed by a screen and safety barrier composed of an opaque masonry wall and opaque metal or wooden gate, said wall and gate shall be not less than two (2) feet higher than the highest point of the compactor. The Director of Community Development or designee may approve substitute wall and gate material provided the wall and gate results in an opaque visual screen and safety barrier as required by this subsection; vegetation shall not be acceptable for this purpose..”

Section 6. All ordinances or parts of ordinances in conflict herewith are hereby repealed to the extent of such conflict.

Section 7. Any part or provision of this ordinance found by a court of competent jurisdiction to be in violation of the Constitution or laws of the United States or North Carolina is hereby deemed severable and shall not affect the validity of the remaining provisions of the ordinance.

Section 8. This ordinance shall become effective April 8, 2010.

Patricia C. Dunn, Mayor

ATTEST:

Wanda T. Elks, City Clerk

Excerpt from the Draft March 16, 2010 Planning and Zoning Commission Meeting Minutes:

Text Amendment

Request by the Community Development Department to amend various zoning ordinance provisions to include screening, safety barrier, and dwelling unit separation standards for recycling centers and compactors for both multi-family residential and nonresidential development

Mr. Harry Hamilton said this Title 9 zoning ordinance amendment is associated with a proposed amendment to Title 6, Garbage and Refuse Collection and Disposal, proposed by the Recycling Committee. He said the Recycling Committee recommended ordinance (Title 6) is a separate issue, not requiring P&Z review or recommendation. The recycling ordinance is anticipated to be considered by the City Council in the near future. Mr. Hamilton said Delbert Bryant, Sanitation Superintendent from the Public Works Department, would give a brief explanation of the proposed recycling ordinance.

Mr. Delbert Bryant said he would be sharing information about the plan for recycling. He said part of the 2009 City Council Goals and Objectives was to involve all citizens in recycling. In May of 2009, staff presented options for increasing residential recycling to City Council. City Council then directed staff to develop an Education and Promotion Plan and to work with a committee of stakeholders to explore methods to increase multi-family recycling and develop a committee recommendation. Mr. Bryant said currently recycling is the option of each complex and is not required during construction. He said sixty-seven out of two hundred twenty-five multi-family complexes presently have recycling centers. Fifty of the sixty-seven complexes constructed their centers with grant funds they obtained from the city. The Recycling Committee is composed of eight members including two multi-family property owners, two from multi-family homeowner's associations, two multi-family property managers, one from the Environmental Advisory Commission, and one from Keep Greenville Beautiful, Inc. Mr. Bryant said the proposed ordinance states that all existing complexes must provide location(s) for the city to install Recycling Center(s). It states all new complexes must install Recycling Centers during construction. They must have a minimum of one 96 gallon city approved roll-out container per each 20 units for recycling. He said complexes with less than 20 units must have a minimum of one city approved roll-out cart for recycling. Mr. Bryant said the city would install Recycling Centers for existing multi-family complexes within two years and the city will maintain those centers. He said the developer or builder must install Recycling Centers during construction for any new multi-family complexes approved for construction after July 1, 2010. The city will maintain the centers after construction. Mr. Bryant said the funding for construction at existing complexes is through a \$.42 per month per unit surcharge on multi-family refuse fee. The multi-family refuse fee surcharge is proposed to begin on July 1, 2010 and continue for four years. After four years the surcharge will be reduced to \$.09 per month per household to cover the maintenance of the centers. Mr. Bryant said installation will include site preparation, concrete pad, Recycling Center signage, fencing around the center (4' Wood Fencing), roll-out containers and site repair. Maintenance will include roll-out containers, signage and fencing. Maintenance does not include vegetation or turf around the recycling center, masonry or specialty fencing

enclosures. He said the amendments required would be to Title 6 Chapter 3 of the City Solid Waste Code of Ordinances and to Title 9 Chapter 4 of the Zoning Regulations. Mr. Bryant said the presentation to the stakeholders took place between January and February of this year. A public meeting was held in the Public Works building in February and for the Multi-family Recycling Committee Meeting earlier this month. He said following tonight's presentation, he would present the proposal to City Council in April and have an Education and Awareness program throughout May and June. The proposed date of effectiveness is July 1, 2010.

Mr. Tozer said the multi-family projects in the city would fall under the federal handicap code and asked if the federal accessibility codes for handicapped people were taken into consideration when the access to and the size of the container for recycling was developed.

Mr. Bryant said there were handicapped access consideration.

Mr. Tozer said there were some specific details that require handicapped accessibility and wondered if they had been followed.

Mr. Bryant said handicapped accessibility could be incorporated into the design.

Mr. Bell asked if multi-family consisted of four or more units in a building.

Mr. Bryant said, with respect to the recycling ordinance ten units in a building would constitute multi-family use.

Mr. Bell asked if the cost of the containers would be on the owners or if the city would provide them.

Mr. Bryant said they would be provided through the \$0.42 surcharge.

Mr. Thomas asked about the grant funding that Mr. Bryant mentioned earlier that was provided by the city.

Mr. Bryant said that came through the state.

Ms. Basnight asked if the surcharge was for all units or just occupied units.

Mr. Bryant said it was for occupied units only.

Mr. Hamilton said garbage dumpsters are currently required, pursuant to Title 6, to service certain multi-family and non-residential uses. He wanted to clarify that multi-family under the garbage regulations is ten units, but under the zoning regulations it is three. Where dumpsters are required, visual screening, dwelling unit separation, and accessibility standards apply – per the zoning regulations (Title 9). He said the proposed zoning ordinance will not change the current dumpster requirements (either Title 6 or Title 9). Mr. Hamilton said garbage compactors are also often used by non-residential uses and compactors will be an option in the future for multi-family development. Recycling centers as described by the Public Works Department will also

be utilized in the future. Mr. Hamilton said the proposed zoning amendment will insure that compactors and recycling centers are screened and/or separated from residential uses in the same or similar manner as required for dumpsters. The purposes of the zoning ordinance amendment is to provide screening requirements for future recycling centers, screening and safety barrier requirements for compactors, and dwelling unit separation between recycling centers or compactors and multi-family dwellings.

No one spoke in opposition to the request.

Motion was made by Mr. Ramey, seconded by Mr. Tozer to recommend approval of the proposed amendment, to advise that it is consistent with the comprehensive plan and other applicable plans and to adopt the staff report which addresses plan consistency and other matters. Motion carried unanimously.



City of Greenville, North Carolina

Meeting Date: 4/8/2010
Time: 7:00 PM

Title of Item: Ordinance to annex Fox Chase, Section 2, Lot 32, involving 0.756 acres located east of Fox Chase Lane, south of Charleston Village, Section 1, Phase 2, and Charleston Village, Section 2, Phase 2, and bounded on the south, east, and west by Fox Chase, Section 2

Explanation: ANNEXATION PROFILE

A. SCHEDULE

1. Advertising date: March 29, 2010
2. City Council public hearing date: April 8, 2010
3. Effective date: June 30, 2010

B. CHARACTERISTICS

1. Relation to Primary City Limits: Contiguous
2. Relation to Recognized Industrial Area: Outside
3. Acreage: 0.756 acres
4. Voting District: 5
5. Township: Winterville
6. Vision Area: E
7. Zoning District: RA-20, Residential-Agricultural
8. Land Use: Existing: Vacant Anticipated: Single-Family Residential

9. Population:

	Formula	Number of People
Total Current	0	0
Estimated at full development	2.35 people per dwelling	2
Current Minority	0	0
Estimated Minority at full development	1	2 people x 25.5% minority = 1
Current White	0	1
Estimated White at full development	1	2 people - 1 minority = 1

10. Rural Fire Tax District: Red Oak

11. Greenville Fire District: Station #2 (Distance of 1.49 miles)

12. Present Tax Value: \$34,020
Estimated Future Tax Value: \$174,020

Fiscal Note: The total estimated tax value at full development is \$174,020.

Recommendation: Approve the attached ordinance to annex Fox Chase, Section 2, Lot 32.

Viewing Attachments Requires Adobe Acrobat. [Click here](#) to download.

Attachments / click to download

[Fox Chase, Section 2, Lot 32 annexation map](#)

[Fox Chase Section 2 Lot 32 annexation ordinance 860696](#)

ORDINANCE NO. 10-_____
AN ORDINANCE TO EXTEND THE CORPORATE LIMITS OF
THE CITY OF GREENVILLE, NORTH CAROLINA

WHEREAS, the City Council of the City of Greenville has been petitioned under G.S. 160A-31, as amended, to annex the area described herein; and

WHEREAS, the City Council has directed the City Clerk to investigate the sufficiency of said petition; and

WHEREAS, the City Clerk has certified the sufficiency of said petition and a public hearing on the question of this annexation was held at City Hall at 7:00 p.m. on the 8th day of April, 2010, after due notice by publication in The Daily Reflector on the 29th day of March, 2010; and

WHEREAS, the City Council does hereby find as a fact that said petition meets the requirements of G. S. 160A-31, as amended.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF GREENVILLE, NORTH CAROLINA, DOES ORDAIN:

Section 1. That by virtue of the authority vested in the City Council of the City of Greenville, North Carolina, under G. S. 160A-31, as amended, the following described contiguous territory is annexed:

TO WIT: Being all that certain property as shown on the annexation map entitled "Fox Chase, Section 2, Lot 32" involving 0.756 acres as prepared by Stroud Engineering, PA.

LOCATION: Lying and being situated in Winterville Township, Pitt County, North Carolina, located east of Fox Chase Lane, south of Charleston Village, Section 1, Phase 2 and Charleston Village Section 2, Phase 2 and bounded on the south, east and west by Fox Chase, Section 2. This annexation involves 0.756 acres.

GENERAL DESCRIPTION:
Lying and being in Winterville Township, Pitt County, North Carolina, lying west of Thomas Langston Road, being bounded on the south and east by Fox Chase, Section 2 as recorded in Map Book 35, Page 200 of the Pitt County Registry, on the north by Charleston Village, Section 1, Phase 2 as recorded in Map Book 62, Page 177 of the Pitt County Registry, and by Charleston Village Section 2, Phase 2 as recorded in Map Book 70, Page 117 of the Pitt County Registry, on the west by the eastern right-of-way of Foxchase Lane and being more particularly described as follows:

Beginning at an existing pinched iron pipe found on the eastern right-of-way of Foxchase Lane, the northwest corner of Lot 33, Fox Chase, Section 2 as recorded in Map Book 35, Page 200, also the southwest corner of the lot described herein, the True Point of Beginning.

Thence from the true point of beginning, leaving Lot 33 and following the eastern right-of-way of Fox Chase Lane N04-54-00E – 116.00’ to a new iron stake set at the northwest corner of Lot 32, a point in the line of Lot 19, Charleston Village, Section 2, Phase 2 (Map Book 70, Page 117), thence leaving the right-of-way of Foxchase Lane and following the southern line of Charleston Village S80-11-00E – 223.36’ to an existing iron pipe, a corner of Lot 14, Charleston Village, Section 1, Phase 2 (Map Book 62, Page 177), thence S60-22-40E – 27.65’ to a new iron stake set in the line of Lot 13, Charleston Village, Section 1, Phase 2, thence leaving the Charleston Village boundary and following the western line of Lot 45, Fox Chase, Section 2 (Map Book 35, Page 200), S07-21-15W – 85.37’ to an existing iron pipe in the line of Lot 44, Fox Chase, Section 2, the northeast corner of Lot 33, Fox Chase, Section 2, thence along the line of Lot 33 N85-06-01W – 244.00’ to the true point of beginning, containing 0.5927 Acre and attachment number 1 being all of Lot 32, Fox Chase Section 2, Map Book 32, Page 200, Parcel no. 46219 as filed with the Pitt County Tax Assessor’s Office. Page 2 of 3

Also included with the annexation of Lot 32, Fox Chase, Section 2 is the right-of-way of Foxchase Lane as described as follows:

Beginning at an existing pinched iron pipe found on the eastern right-of-way of Foxchase Lane, the northwest corner of Lot 33, Fox Chase, Section 2 as recorded in Map Book 35, Page 200, also the southwest corner of Lot 32, the True Point of Beginning.

Thence from the true point of beginning, leaving the eastern right-of-way of Foxchase Lane N85-06-01W – 60.00’ to a point on the western right-of-way of Foxchase Lane, thence along the western right-of-way of Foxchase Lane N04-54-00E – 121.16’ to the northeast corner of Lot 31, Fox Chase, Section 2 (Map Book 35, Page 200), thence leaving the western right-of-way Foxchase Lane S80-11-00E – 60.22’ to the northwest corner of Lot 32 on the eastern right-of-way of Foxchase Lane, thence along the eastern right-of-way of Foxchase Lane S04-54-00W – 116.00’ to the true point of beginning, containing 0.1633 Acre in road right-of-way.

Section 2. Territory annexed to the City of Greenville by this ordinance shall, pursuant to the terms of G. S. 160A-23, be annexed into Greenville municipal election district five. The City Clerk, City Engineer, representatives of the Board of Elections and any other person having responsibility or charge of official maps or documents shall amend those maps or documents to reflect the annexation of this territory into municipal election district five.

Section 3. The territory annexed and its citizens and property shall be subject to all debts, laws, ordinances and regulations in force in the City of Greenville and shall be entitled to the same privileges and benefits as other territory now within the City of Greenville. Said territory shall be subject to municipal taxes according to G.S. 160A-58.10.

Section 4. The Mayor of the City of Greenville, North Carolina, shall cause a copy of the map of the territory annexed by this ordinance and a certified copy of this ordinance to be recorded in the office of the Register of Deeds of Pitt County and in the Office of the Secretary of State in Raleigh, North Carolina. Such a map shall also be delivered to the Pitt County Board of Elections as required by G.S. 163-288.1.

Section 5. This annexation shall take effect from and after the 30th day of June, 2010.

ADOPTED this 8th day of April, 2010.

Patricia C. Dunn, Mayor

ATTEST:

Wanda T. Elks, City Clerk

NORTH CAROLINA
PITT COUNTY

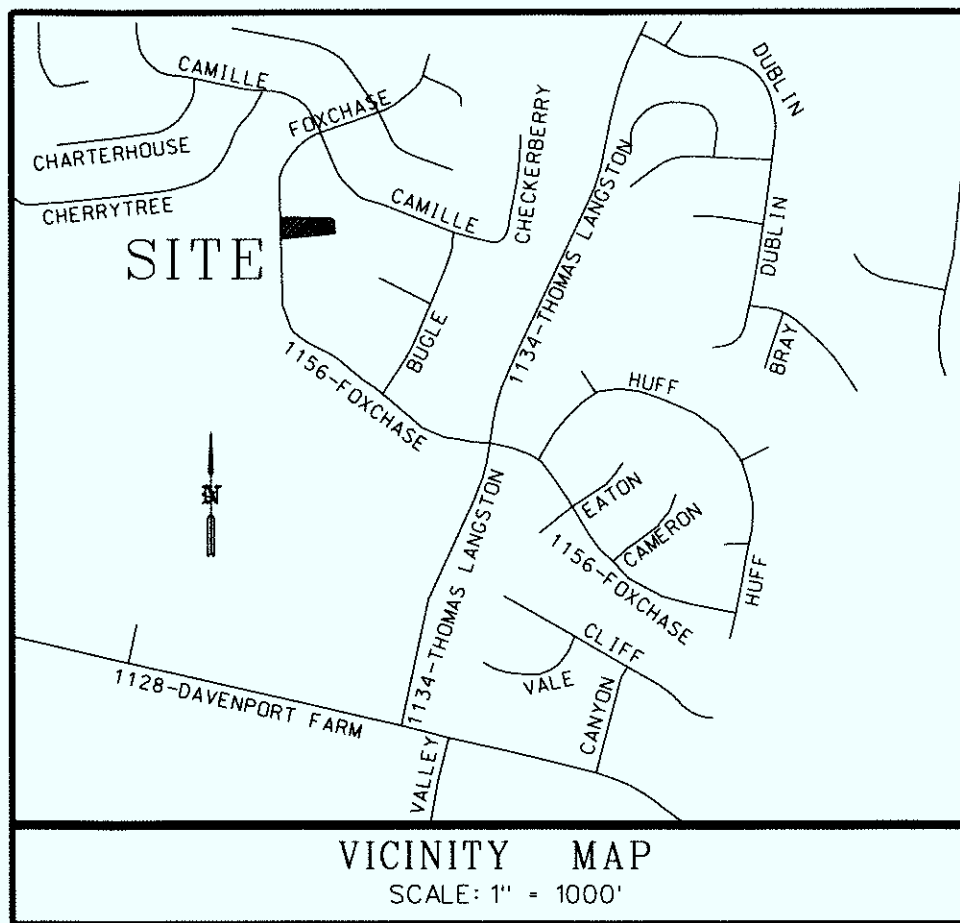
I, Patricia A. Sugg, Notary Public for said County and State, certify that Wanda T. Elks personally came before me this day and acknowledged that she is City Clerk of the City of Greenville, a municipality, and that by authority duly given and as the act of the municipality, the foregoing instrument was signed in its name by its Mayor, sealed with the corporate seal, and attested by herself as its City Clerk. Attachment number 1
Page 1 of 3

WITNESS my hand and official seal, this the _____ day of _____, 2010.

Patricia A. Sugg, Notary Public

My Commission Expires: September 4, 2011

Document # 860696



LEGEND:
 R/W= RIGHT-OF-WAY
 BC= BACK OF CURB
 REF= REFERENCE
 AC= ACRE

LEGEND:
 - - - - - NEW CITY LIMIT LINE
 - - - - - OLD CITY LIMIT LINE
 - - - - - EXISTING CITY LIMIT LINE

Attachment number 2
 Page 1 of 1

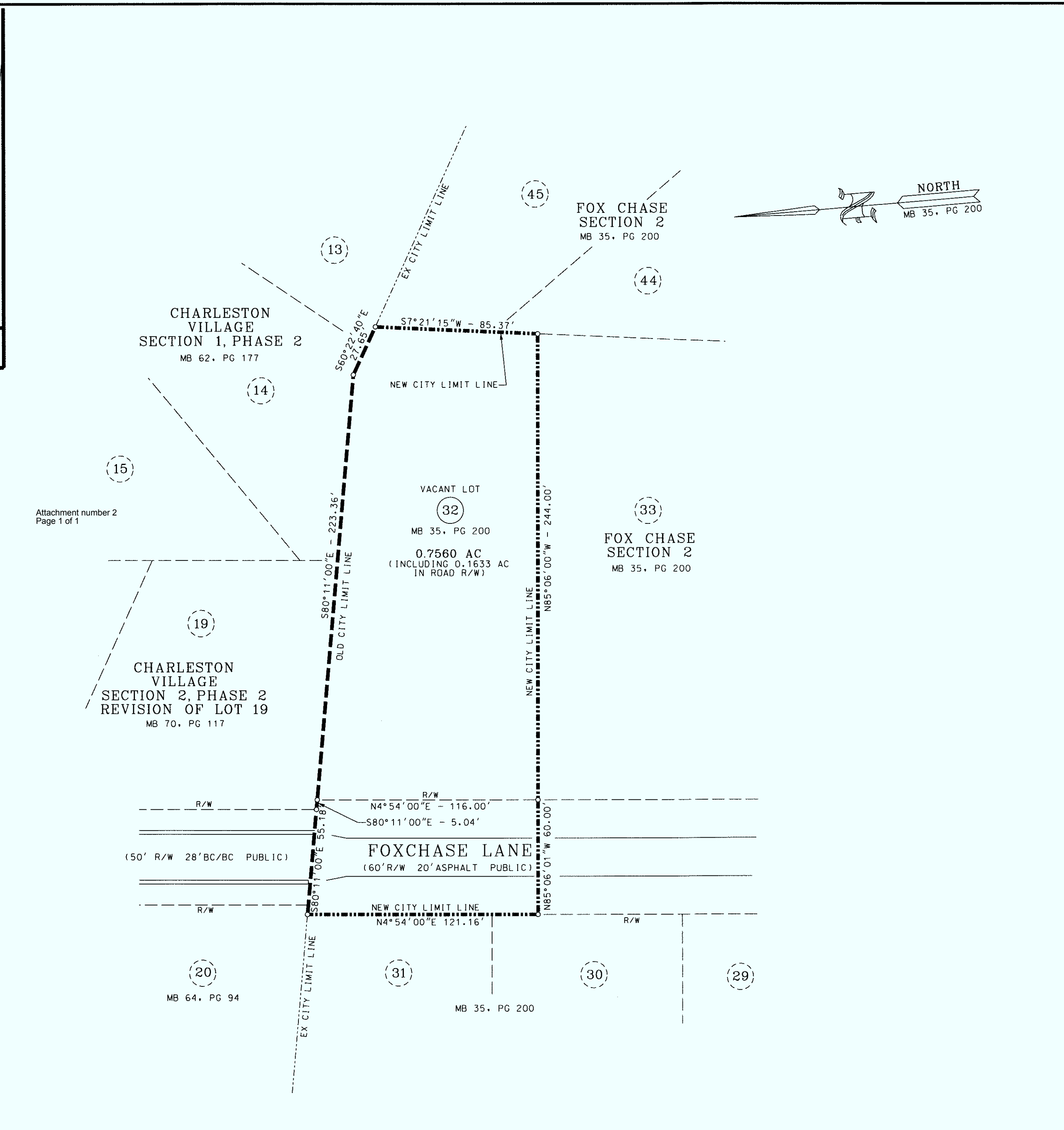
PARCEL NO. 46219

LOT 32, FOX CHASE SECTION 2
 WINTERVILLE TWP. PITT COUNTY NORTH CAROLINA

OWNER: BILL CLARK HOMES OF GREENVILLE, LLC
 200 E. ARLINGTON BLVD.
 GREENVILLE, NC 27858
 (252) 355-5805

STROUD ENGINEERING P.A.
 LICENSE NO. C-0647
 107-B COMMERCE ST.
 GREENVILLE, NC 27858
 (252) 756-9352

SURVEYED: N/A APPROVED: DTB
 DRAWN: DTB DATE: 3-19-10
 CHECKED: DTB SCALE: 1" = 4ft # 7



MAPS RECORDED	BOOK	PAGE
FOX CHASE SECTION 2	35	200

MAP SHOWING AREA ANNEXED BY
THE CITY OF GREENVILLE

DATE _____ ORDINANCE NO. _____ AREA 0.7560 AC

WINTERVILLE TWP. PITT COUNTY NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL LAND SURVEYOR SEAL
 L-4146
 DEBORAH T. BOYETTE

SURVEYOR'S CERTIFICATION

I, Deborah T. Boyette, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL FIELD SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOK _____ PAGE _____, OR FROM BOOKS REFERENCED HEREON); THAT THE BOUNDARIES NOT SURVEYED ARE DASHED CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN MAP BOOK 35, PAGE 200, OR AS REFERENCED HEREON; THAT THE RATION OF PRECISION IS 1:10,000+ AS PER RECORDED PLATS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED.

I FURTHER CERTIFY PURSUANT TO G.S. 47-30 (F)(1)(d), THAT THIS SURVEY IS OF ANOTHER CATEGORY SUCH AS THE RECOMBINATION OF EXISTING PARCELS, A COURT-ORDERED SURVEY, OR OTHER EXCEPTION TO THE DEFINITION OF A SUBDIVISION.

WITNESS MY ORIGINAL SIGNATURE AND SEAL THIS THE 19 DAY OF MARCH, 2010.

SIGNED Deborah T. Boyette
 PROFESSIONAL LAND SURVEYOR No. L-4146



City of Greenville, North Carolina

Meeting Date: 4/8/2010
Time: 7:00 PM

Title of Item: Updates to the City of Greenville's Manual of Standard Designs and Details

Explanation: The Public Works Department has completed its work to update the City's Manual of Standard Designs and Details (MSDD). The attached identify proposed revisions to the MSDD. The manual includes standard designs and drawing details pertaining to public streets, storm drainage, erosion and sedimentation control, driveways, parking, plat preparation, and record drawings. The MSDD is utilized by engineers, developers, builders, and contractors to meet minimum standards for installation of required improvements in subdivisions and land development within the corporate limits of the City and its extraterritorial planning and zoning jurisdiction.

Over the past year, the Department has worked in a collaborative effort with a work group consisting of representatives from the builder, developer, and architect/engineer communities to update this manual. City staff met with the work group at various times during the revision process to present and discuss proposed revisions. This process also included a public meeting to provide residents with an opportunity to review the proposed updates and to present comments. Public Works will brief City Council on the proposal, focusing on both the process and developer/consultant concerns with the document. The proposed revisions to the MSDD are presented to the City Council for consideration.

Fiscal Note: Upon final acceptance and approval of the revised MSDD, it is recommended that an electronic version of the document be created. This will enable others to incorporate the City's details and standards into project plans. The estimated cost for this work is \$25,000. This funding will be incorporated into the upcoming fiscal year budget (FY 2010-2011).

Recommendation: Conduct a public hearing. Following the public hearing, review, revise if deemed appropriate, and adopt the proposed updates to the City of Greenville's Manual of Standard Designs and Details.

Viewing Attachments Requires Adobe Acrobat. [Click here](#) to download.

Attachments / click to download

 [MSDD](#)

BASINS, PIPES, AND MANHOLES

Item # 8

Engineered pre-cast boxes are permitted with the City Engineer's approval.

GENERAL NOTES:

Mortar Joints $1/2" \pm 1/8"$ Thick.
Class "A" concrete to be used.

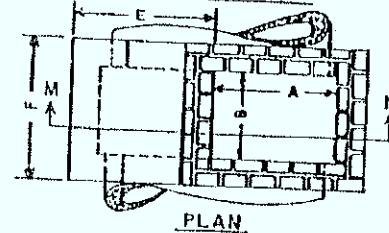
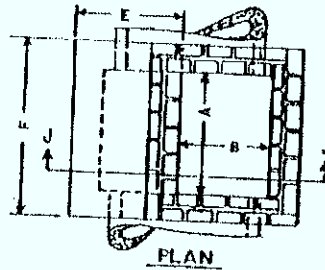
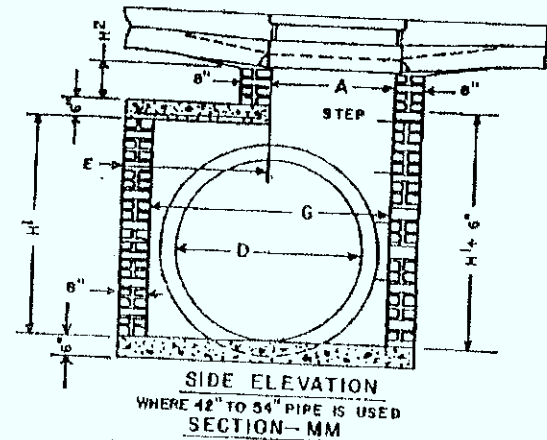
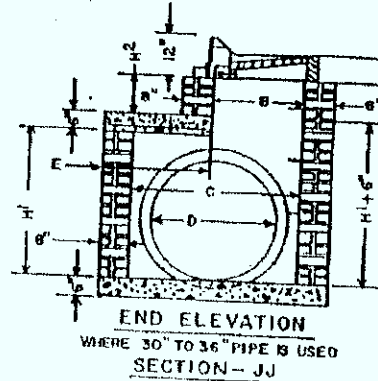
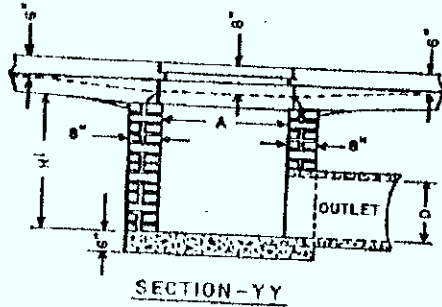
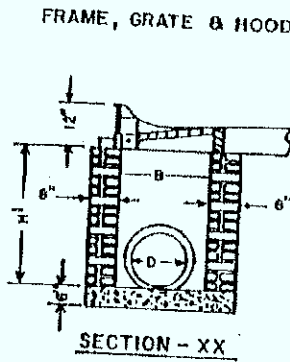
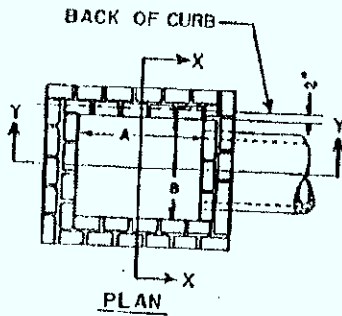
The pouring of floor slab to be accomplished by forming.

All catch basins over 3' 6" in depth shall be provided with steps 1' 0" on centers. Steps shall be in accordance with STD No. 25.12.

Concrete brick may be used in lieu of clay brick. Jumbo brick will be permitted.

For 8' 0" in height or less use 8" wall. Over 8' 0" in height use 12" wall to 6' 0" from top of wall, and 8" wall for the remaining 6' 0".

Leave weep holes as directed by the engineer.



REVISIONS		
NO.	DATE	DESCRIPTION

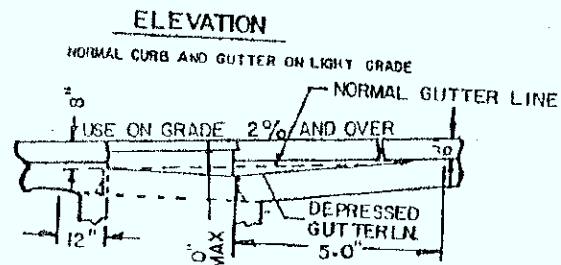
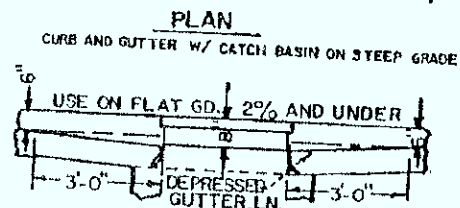
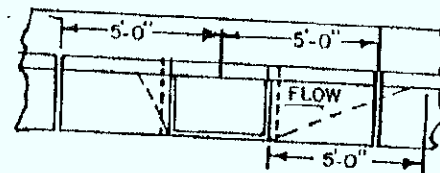
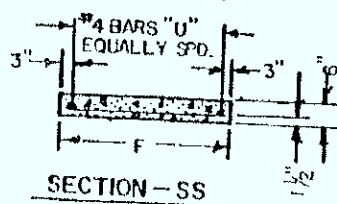
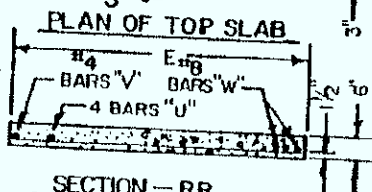
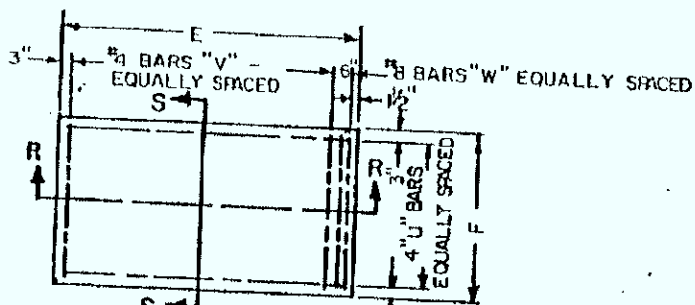
**STANDARD BRICK CATCH BASIN
15" THRU 54" PIPE**

APPROVED: DATE May 8, 1980

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

STD. NO. REV.

PIPE D	DIMENSIONS OF BOX AND PIPE						DIMENSIONS AND QUANTITIES COVER						K CATCH BASIN MENT				CUBIC YARDS OF CONCRETE IN BOX			BRICK MASONRY	
	SPAN A	WIDTH B	WIDTH C	SPAN G	HEIGHT MIN. H ¹	HEIGHT H ²	DIMENSIONS E F		BARS - U NO. LENGTH		BARS - V NO. L		BARS - W NO. L		TOTAL LBS.	TOP SLAB	FLOOR	TOTAL	H ¹ CU. YDS.	PER FT. OF HEIGHT ABOVE MINIMUM H ¹	
15"	3'-0"	2'-2"	---	---	2'-6"	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18"	↑	↑	---	---	2'-10"	---	---	---	---	---	---	---	---	---	---	---	0.281	0.281	0.802	0.321	
24"	↑	↑	---	---	3'-4"	---	---	---	---	---	---	---	---	---	---	---	0.281	0.281	0.909	ABOVE	
30"	↑	↑	3'-4"	---	3'-2"	VA	1'-10"	4'-4"	4	1'-6"	3	4'-1"	3	4'-1"	45	0.147	0.374	0.521	1.306	MINIMUM H ¹	
36"	↑	↑	3'-10"	---	3'-8"	RA	2'-4"	4'-4"	4	2'-0"	4	4'-1"	3	4'-1"	49	0.167	0.415	0.602	1.586	ABOVE	
42"	↑	↑	---	---	4'-4"	RE	2'-1"	3'-6"	4	1'-9"	3	3'-3"	3	3'-3"	38	0.135	0.373	0.508	1.811	MINIMUM H ¹	
48"	↑	↑	---	---	4'-10"	FE	2'-8"	3'-6"	4	2'-6"	4	3'-3"	3	3'-3"	40	0.173	0.410	0.583	2.146	ABOVE	
54"	3'-0"	2'-2"	---	---	5'-4"	---	3'-3"	3'-6"	4	3'-0"	6	3'-3"	3	3'-3"	48	0.211	0.448	0.659	2.510	H ²	



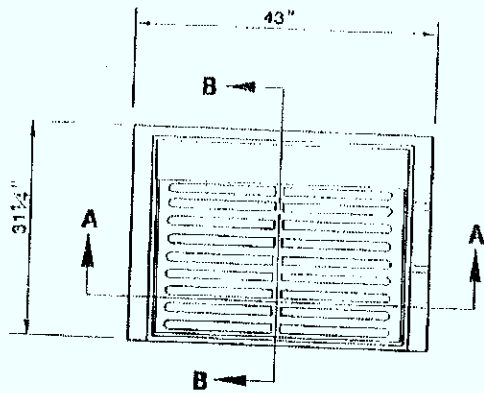
REVISIONS		
NO.	DATE	DESCRIPTION

STANDARD BRICK CATCH BASIN
15" THRU 54" PIPE
CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

APPROVED: DATE May 8, 1980

STD. NO. REV.
3500

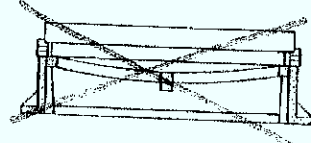
FRAME, GRATES, AND HOOD
FOR USE ON STANDARD CATCH BASIN



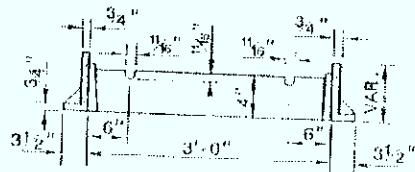
PLAN

FRAME, GRATE, & HOOD ASS'Y

SEE PAGE 2 OF 2



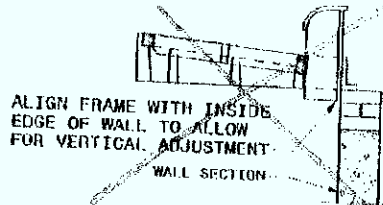
SECTION - AA



SECTION - KK

NOTE: USE TYPE "E", "F" AND "G" GRATE
UNLESS OTHERWISE NOTED.

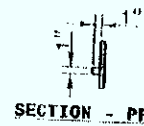
SEE PAGE 2 OF 2



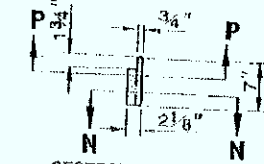
SECTION - BB



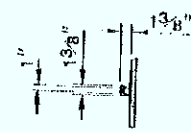
SECTION - J-L



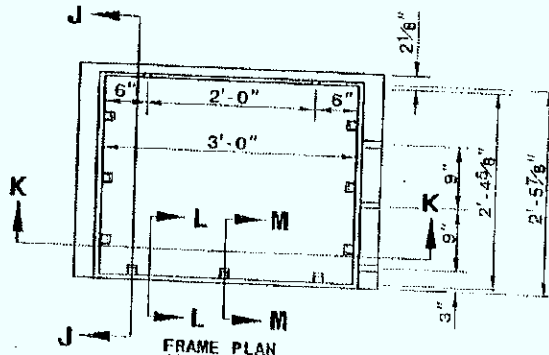
SECTION - PP



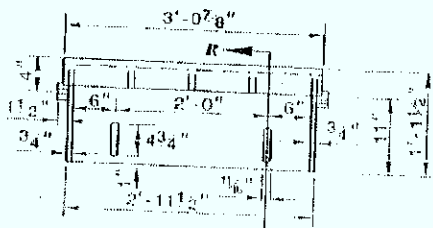
SECTION - M-N



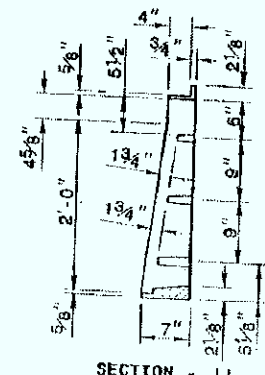
SECTION - N-N



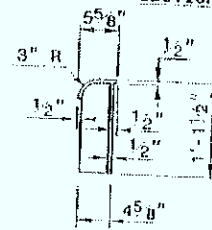
FRAME PLAN



HOOD ELEVATION



SECTION - L-L



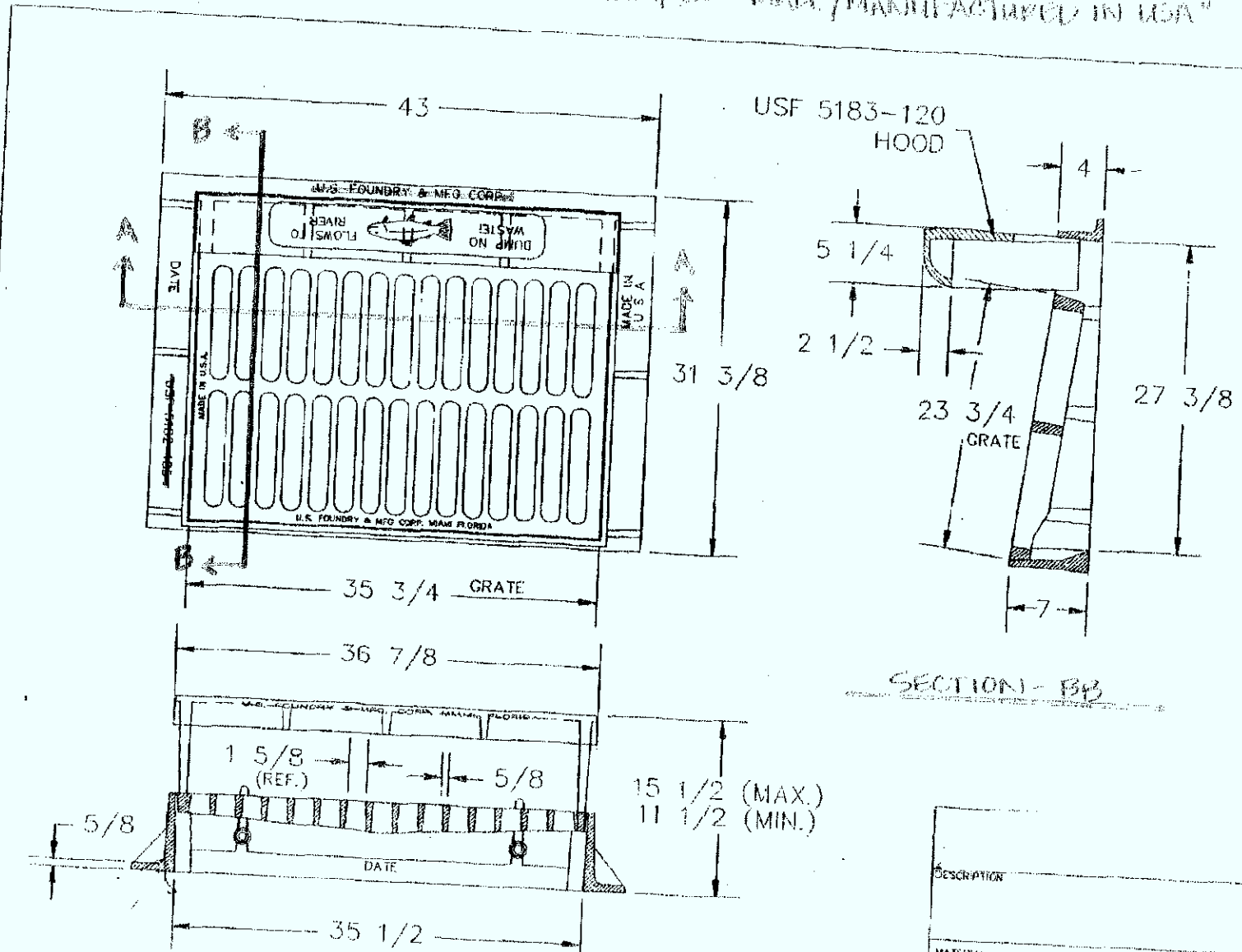
SECTION - R-R

FRAME, GRATES, AND HOOD
FOR USE ON STANDARD CATCH BASIN

STD. NO. 25.03

Item # 8

ADD NOTES: All hoods must be stamped "FLOWS TO RIVER"
 All grates must be stamped "MADE / MANUFACTURED IN USA"

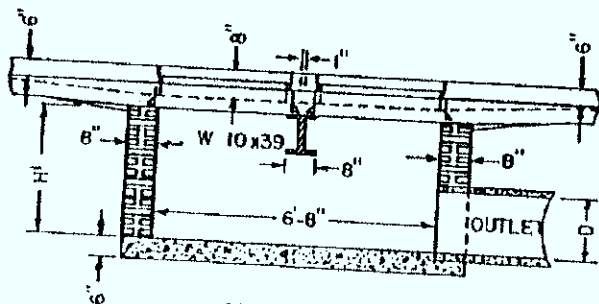
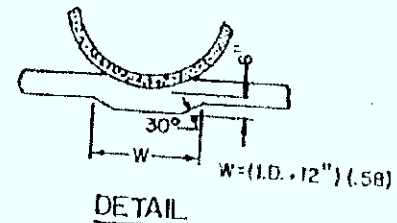
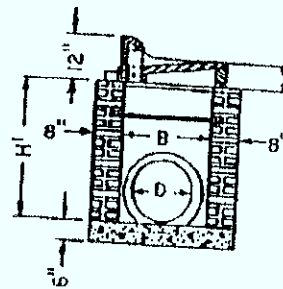
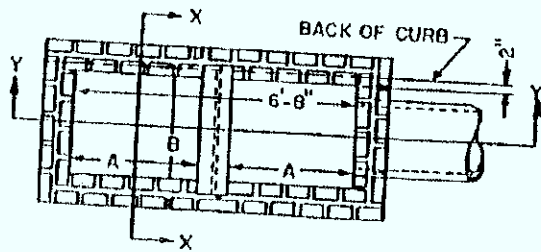


SECTION - B-B

SECTION - A-A

DESCRIPTION	
MATERIAL	GRAY IRON CLASS.
FRAME WEIGHT:	GRID WEIGHT:
UNLESS OTHERWISE NOTED WEIGHT IS IN POUNDS AND APPROXIMATED	
UM	DMG DATE
SCALE	ITEM No.
REV. E	CHK. BY

REV.	DATE	DESCRIPTION	REV. E	CHK. BY
------	------	-------------	--------	---------



GENERAL NOTES:

- MORTAR JOINTS $1/2" \pm 1/8"$ THICK
- CLASS "X" CONCRETE TO BE USED
- THE POURING OF FLOOR SLAB TO BE ACCOMPLISHED BY FORMING.
- ALL CATCH BASINS OVER 3'-6" IN DEPTH TO BE PROVIDED WITH METAL STEPS ON $1'-0" \pm$ CENTERS.
- STEPS SHALL BE IN ACCORDANCE WITH STD NO. 25.12.
- CONCRETE BRICK MAY BE USED IN LIEU OF CLAY BRICK. JUMBO BRICK WILL BE PERMITTED.
- FOR 8'-0" IN HEIGHT OR LESS USE 8" WALL, OVER 8'-0" IN HEIGHT USE 12" WALL TO 6'-0" FROM TOP OF WALL, AND 8" WALL FOR THE REMAINING 6'-0".

Engineered pre-cast boxes are permitted with the City Engineer's approval.

DIMENSIONS OF BOX AND PIPE					
PIPE	SPAN	WIDTH	HEIGHT	W 10	
D	A	B	MIN. H	LENGTH	
15"	3'-0"	2'-2"	2'-6"	2'-10"	
18"	3'-0"	2'-2"	2'-10"	2'-10"	
24"	3'-0"	2'-2"	3'-4"	2'-10"	

REVISIONS		
NO.	DATE	DESCRIPTION

STANDARD BRICK DOUBLE CATCH BASIN
15" THRU 24" PIPE

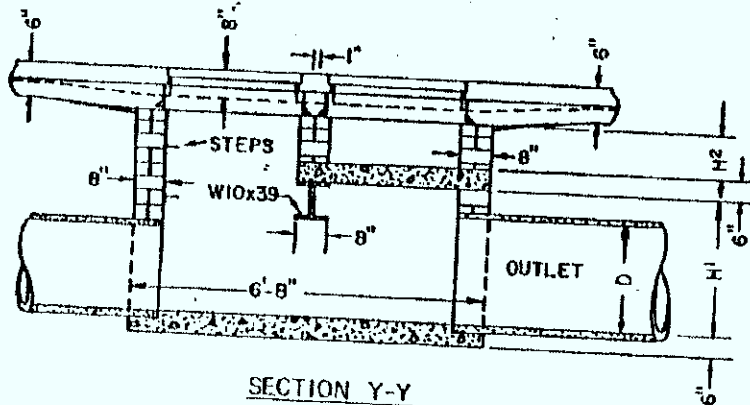
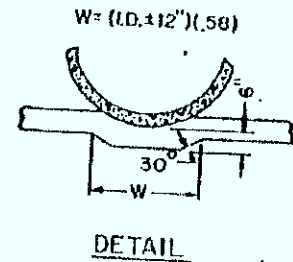
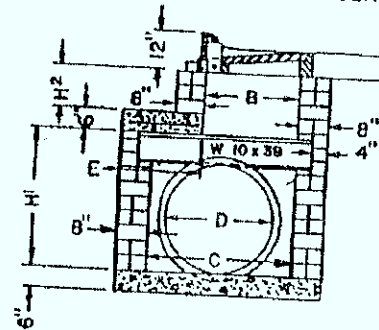
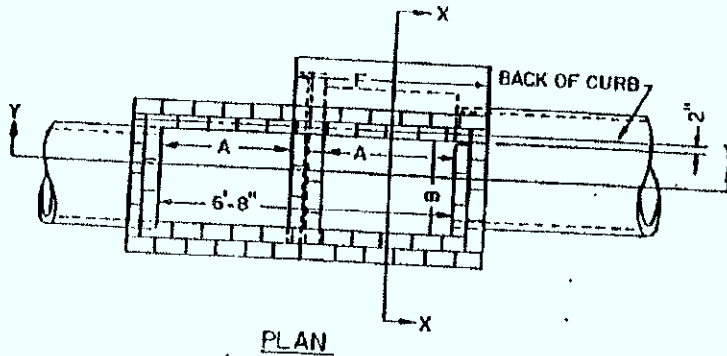
APPROVED: DATE May 8, 1980

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

STD. NO.	REV.
2504	

NO

MINIMUM DEPTH (H') TO BE DETERMINED BY SIZE OF OUTLET PIPE
SEE STD. FOR CONCRETE SLAB DETAIL.



GENERAL NOTES:

- MORTAR JOINTS $1/2" \pm 1/8"$ THICK.
- CLASS "A" CONCRETE TO BE USED.
- THE POURING OF FLOOR SLAB TO BE ACCOMPLISHED BY FORMING.
- ALL CATCH BASINS OVER 3'-6" IN DEPTH TO BE PROVIDED WITH METAL STEPS ON $1' \pm$ CENTERS. STEPS SHALL BE IN ACCORDANCE WITH STD. NO. 25.12.
- CONCRETE BRICK MAY BE USED IN LIEU OF CLAY BRICK. JUNBO BRICK WILL BE PERMITTED.
- FOR 8'-0" IN HEIGHT OR LESS USE 8" WALL, OVER 8'-0" IN HEIGHT USE 12" WALL TO 6'-0" FROM TOP OF WALL, AND 8" WALL FOR THE REMAINING 6'-0".

15" THRU 24" PIPE

DIMENSIONS OF BOX AND PIPE						
PIPE	SPAN	WIDTH	WIDTH	HEIGHT	HEIGHT	W IO
D	A	B	C	MIN. H	H	LENGTH
15"	3'-0"	2'-2"	-	2'-6"	-	2'-10"
18"	3'-0"	2'-2"	-	2'-10"	-	2'-10"
24"	3'-0"	2'-2"	-	3'-4"	-	2'-10"

30" THRU 36" PIPE

DIMENSIONS OF BOX AND PIPE							COVER								
PIPE	SPAN	WIDTH	WIDTH	HEIGHT	HEIGHT	W IO	DIMENSION		REINFORCING				TOT. LBS.		
D	A	B	C	MIN. H	H	LENGTH	E	F	BARS-U NO.	BARS-V NO.	BARS-W NO.	TOT.			
30"	3'-0"	2'-2"	3'-4"	3'-2"	VAR.	4'-0"	1'-10"	4'-4"	4	1'-6"	3	4'-1"	3	4'-1"	45
36"	3'-0"	2'-2"	3'-10"	3'-8"	VAR.	4'-6"	2'-4"	4'-4"	4	2'-0"	4	4'-1"	3	4'-1"	49

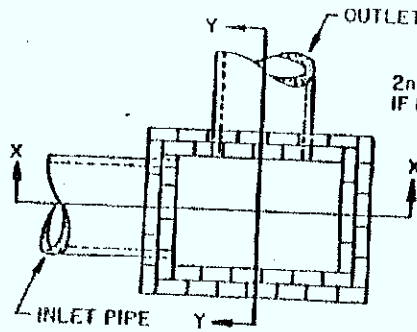
REVISIONS		
NO.	DATE	DESCRIPTION

Engineered pre-cast boxes are permitted with the City Engineer's approval.

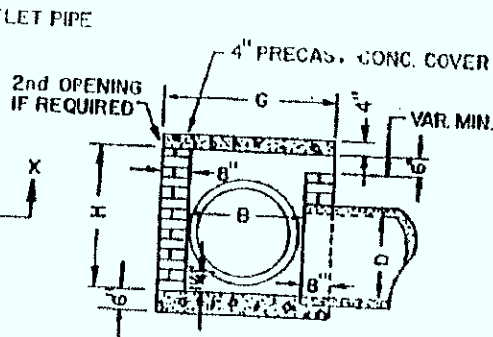
APPROVED: DATE May 8, 1980

STANDARD BRICK DOUBLE CATCH BASIN
30" THRU 36" PIPE
CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

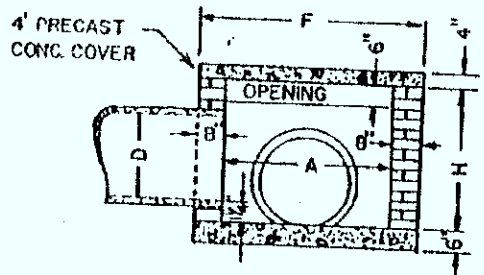
STD. NO.	REV.
2505	



PLAN

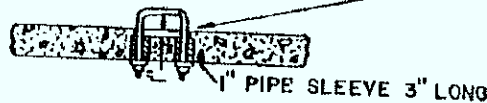


SECTION Y-Y

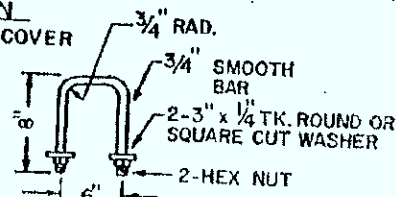


SECTION - XX

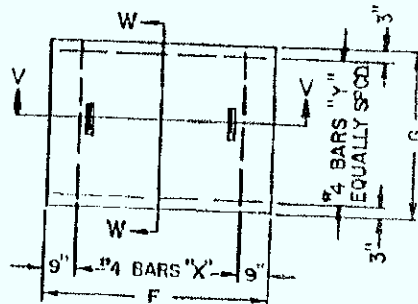
PART WHERE HANDLE IS LOCATED SHALL BE COUNTER SUNK 1", AND HANDLE SHALL BE FREE TO MOVE UP AND DOWN



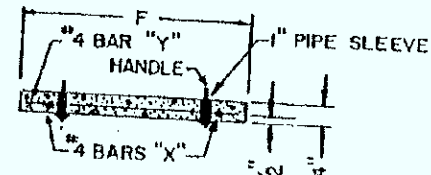
PART SECTION PART SECTION THRU COVER SHOWING HANDLE



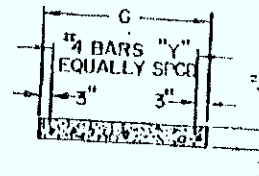
DETAIL OF HANDLE



PLAN PRECAST COVER



SECTION - VV



SECTION - WW

GENERAL NOTES:

ALL CATCH BASINS OVER 3'-6" IN DEPTH TO BE PROVIDED WITH STEPS 12" ON CENTERS. STEPS SHALL BE IN ACCORDANCE W/ STD. NO. 25.12. ALL EXPOSED CONC CORNERS TO BE CHAMFERED 1" CLASS "AA" CONCRETE TO BE USED. ALL MORTAR JOINTS ARE TO BE 1/2" ± 1/8". ALL EXPOSED JOINTS WILL BE CONCAVE TOOLED. THE 6" OPENING SHOWN MAY BE INCREASED TO 8" MAX. IF DEEMED NECESSARY BY THE ENGINEER. FORMS ARE TO BE USED FOR THE CONSTRUCTION OF THE BOTTOM SLAB. CONCRETE BRICK MAY BE USED IN LIEU OF CLAY BRICK. JUMBO BRICK WILL BE PERMITTED. ADD FOR 8'-0" IN HEIGHT OR LESS USE 8" WALL. OVER 8'-0" IN HEIGHT USE 12" WALL TO 6'-0" FROM TOP OF WALL. AND 8" WALL FOR THE REMAINING 6'-0".

Engineered pre-cast boxes are permitted with the City Engineer's approval.

PIPE D	DIM S. OF BOX & PIPE		REINFORCING					COVER DIMENSION		
	SPAN A	WIDTH B	HEIGHT H(MIN)	BARS-X NO	BARS-Y NO	TOT. LBS.	F	G		
15"	3'-6"	2'-3"	2'-7"	2	3'-4"	7	4'-7"	26	4'-10"	3'-7"
18"	4'-0"	2'-8"	2'-11"	2	3'-9"	8	5'-1"	33	5'-4"	4'-0"
24"	4'-0"	2'-8"	3'-5"	2	3'-9"	8	5'-1"	33	5'-4"	4'-0"
30"	4'-0"	3'-6"	3'-11"	2	4'-7"	9	5'-1"	37	5'-4"	4'-10"
36"	4'-0"	3'-6"	4'-6"	2	4'-7"	9	5'-1"	37	5'-4"	4'-10"
42"	4'-0"	3'-6"	4'-11"	2	4'-7"	9	5'-1"	37	5'-4"	4'-10"
48"	4'-6"	4'-0"	5'-5"	2	5'-1"	10	5'-7"	45	5'-10"	5'-4"

REVISIONS		
NO.	DATE	DESCRIPTION

SLAB TYPE CATCH BASIN

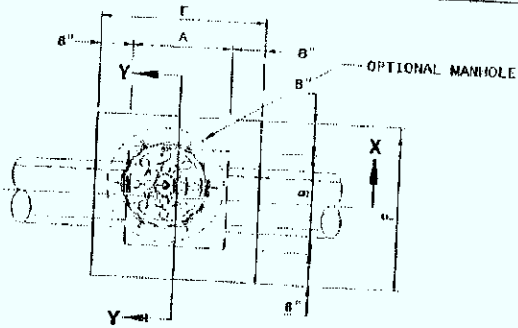
STANDARD BRICK CATCH BASIN WITH SINGLE AND MULTIPLE PIPES
15" THRU 48" PIPE

APPROVED: DATE May 8, 1980

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

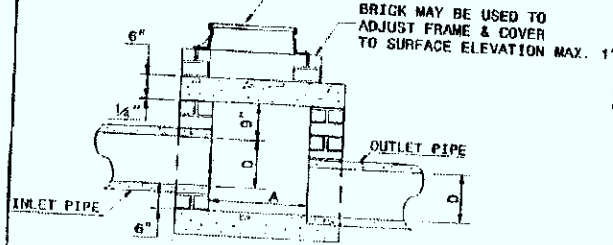
Item # 8

STD. NO.	REV.
25.06	



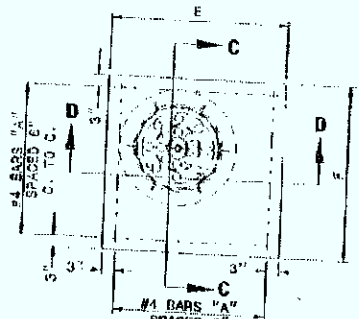
PLAN

SEE STANDARD 840.54 FOR MANHOLE COVER & FRAME OPTIONAL



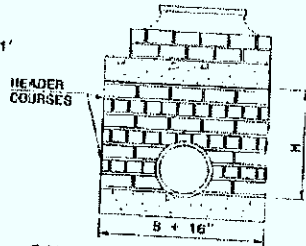
SECTION X-X

BRICK MAY BE USED TO ADJUST FRAME & COVER TO SURFACE ELEVATION MAX. 1'

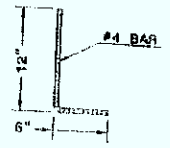


OUTLET ELEVATION

GENERAL NOTES:
 CHAMFER ALL EXPOSED CORNERS 1".
 USE CLASS ~~30~~ CONCRETE THROUGHOUT.
 USE #4 BAR DOWELS AT 12" CENTERS.
 MORTAR JOINTS 1/2" ± 1/8" THICK.
 CONCAVE TOO ALL EXPOSED JOINTS.
 USE FORMS TO CONSTRUCT THE BOTTOM SLAB.
 JUMBO BRICK WILL BE PERMITTED. CONCRETE BRICK OR 4" SOLID CONCRETE BLOCKS MAY BE USED IN LIEU OF CLAY BRICK.
 FOR 8'-0" IN HEIGHT OR LESS, USE 8" WALL. OVER 8'-0" IN HEIGHT, USE 12" WALL TO 6'-0" FROM TOP OF WALL, AND 8" WALL FOR THE REMAINING 6'-0". ADJUST DIMENSIONS AND QUANTITIES ACCORDINGLY.
 IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF BOX, ADD TO BASE AS SHOWN ON STANDARD NO. 840-001
 PROVIDE ALL JUNCTION BOXES OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTERS IN ACCORDANCE WITH STD. NO. 840-007
 ADJUST THE STEEL, CONCRETE AND BRICK MASONRY QUANTITIES TO INCLUDE THE ADDITION OF THE MANHOLE (I.E. DIAGONAL BARS SHORTENED AROUND OPENING IN TOP SLAB, ADDITIONAL VARIABLE HEIGHT BRICK MASONRY, OPENING IN TOP SLAB.)
 MAX. DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12 FEET.



SECTION C-C OR D-D

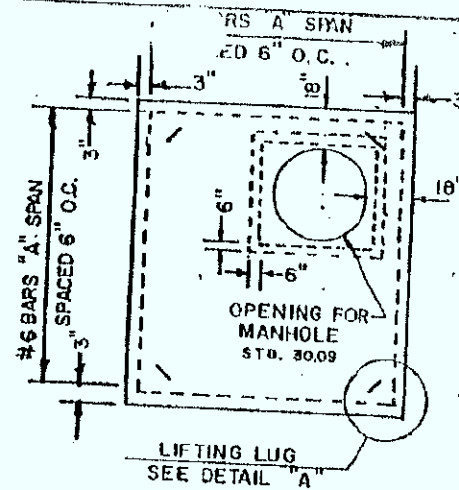
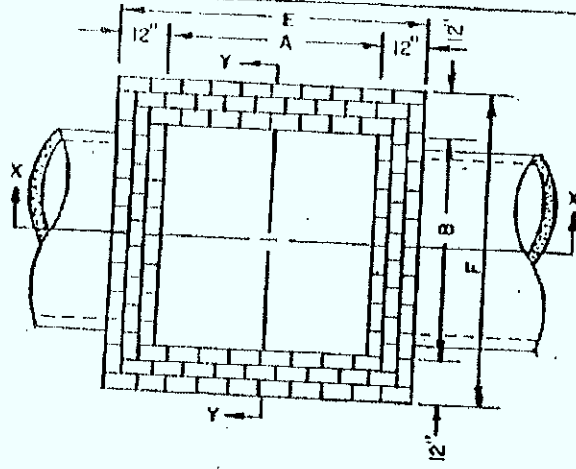


DOWEL

DIMENSIONS OF BOX AND PIPE				DIMENSIONS AND QUANTITIES FOR BRICK JUNCTION BOXES									
PIPE	SPAN	WIDTH	HEIGHT	REINFORCEMENT BARS		TOP SLAB DIMENSIONS		CUBIC YARDS			DEDUCTIONS FOR ONE PIPE		
				NO.	LENGTH	E	F	CONC. TOP & BOTTOM CU. YD.	BRICK MASONRY FT. HT. CU. YD.	WALL PER FT. HT. CU. YD.	C.S.	R.C.	
12"	2'-0"	2'-0"	2'-6"	12	3'-1"	3'-4"	3'-4"	0.312	0.591	0.265	0.070	0.032	
15"	2'-4"	2'-4"	2'-9"	14	3'-5"	3'-8"	3'-8"	0.498	0.814	0.296	0.031	0.047	
24"	3'-0"	3'-0"	3'-3"	16	4'-1"	4'-4"	4'-4"	0.695	1.176	0.362	0.078	0.065	
30"	3'-4"	3'-4"	3'-9"	16	4'-5"	4'-8"	4'-8"	0.807	1.481	0.395	0.122	0.113	
36"	4'-0"	4'-0"	4'-3"	20	5'-1"	5'-4"	5'-4"	1.053	1.858	0.461	0.176	0.170	
42"	4'-8"	4'-8"	4'-9"	22	5'-9"	6'-0"	6'-0"	1.393	2.503	0.527	0.240	0.323	
48"	5'-4"	5'-4"	5'-5"	26	6'-5"	6'-8"	6'-8"	1.646	2.940	0.560	0.313	0.422	
54"	5'-10"	5'-10"	5'-8"	28	6'-11"	7'-2"	7'-2"	1.902	3.502	0.609	0.395	0.535	
60"	6'-6"	6'-6"	6'-3"	30	7'-7"	7'-10"	7'-10"	2.272	4.113	0.658	0.489	0.660	
66"	7'-1"	7'-1"	6'-9"	32	8'-2"	8'-5"	8'-5"	2.624	4.776	0.708	0.591	0.798	

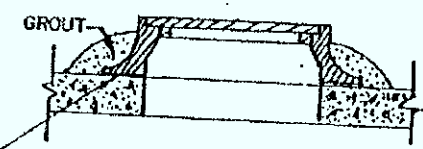
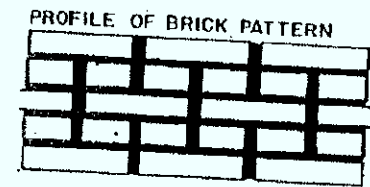
BRICK JUNCTION BOX
 (WITH OPTIONAL MANHOLE)
 15" THRU 66" PIPE

BRICK JUNCTION BOX
 (WITH OPTIONAL MANHOLE)
 15" THRU 66" PIPE



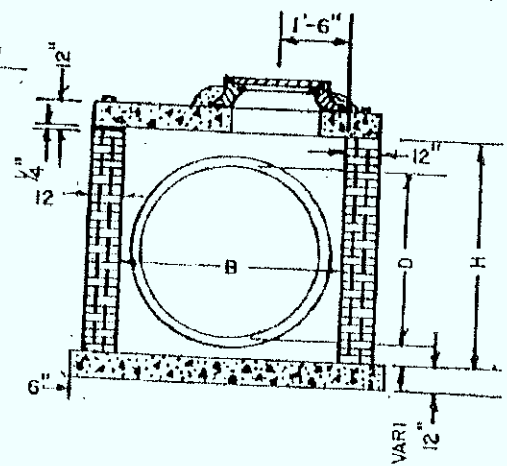
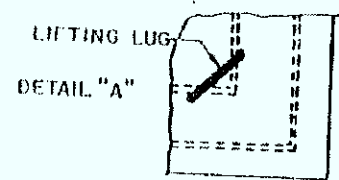
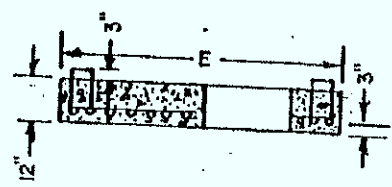
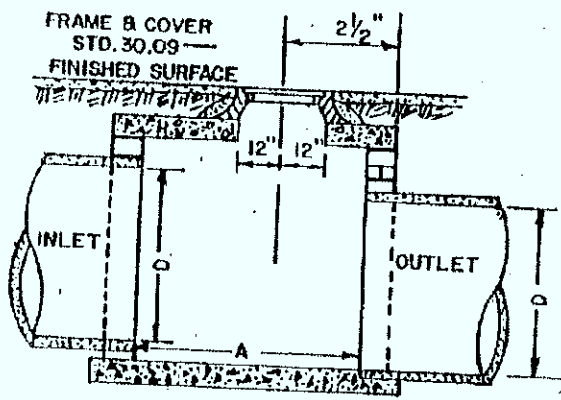
GENERAL NOTES:

- ALL EXPOSED CONC. TO BE CHAMFERED 1"
- CLASS "A" CONCRETE TO BE USED
- ALL MORTAR JOINTS ARE TO BE $\frac{1}{2} \pm \frac{1}{16}$ "
- ALL EXPOSED JOINTS SHALL BE CONCAVE TOOLED.
- FORMS ARE TO BE USED FOR CONSTRUCTION OF BOTTOM SLAB.
- JUMBO BRICK WILL BE PERMITTED *ADD*
- ALL JUNCTION BOXES OVER 3'-6" IN DEPTH SHALL BE PROVIDED W/ STEPS 1'-0" O.C. STEPS SHALL BE IN ACCORDANCE WITH STD. 25.12.



MANHOLE FRAME TO BE SET IN 1/2" OF CEMENT MORTAR.

Engineered pre-cast boxes are permitted with the City Engineer's approval.



DIMENSIONS OF BOX & PIPE						REINF. BARS	
PIPE D	SPAN A	WIDTH B	HEIGHT H	SIZE		NO.	LENGTH
72"	7'-0"	7'-0"	MIN.	9'-0"	9'-0"	72	8'-6"
84"	8'-0"	8'-0"		10'-0"	10'-0"	90	9'-6"
96"	9'-0"	9'-0"		11'-0"	11'-0"	98	10'-6"
108"	10'-0"	10'-0"	MAX.	12'-0"	12'-0"	96	11'-6"
120"	11'-0"	11'-0"		13'-0"	13'-0"	104	12'-6"

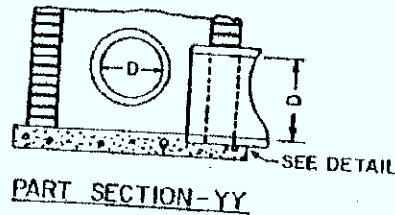
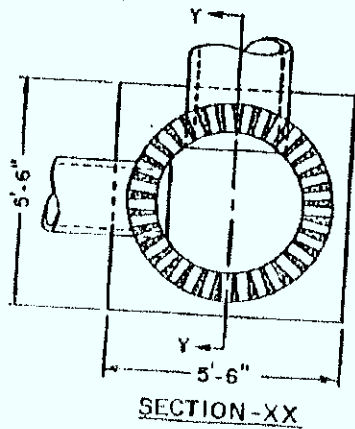
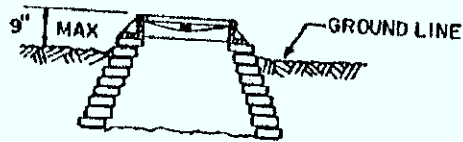
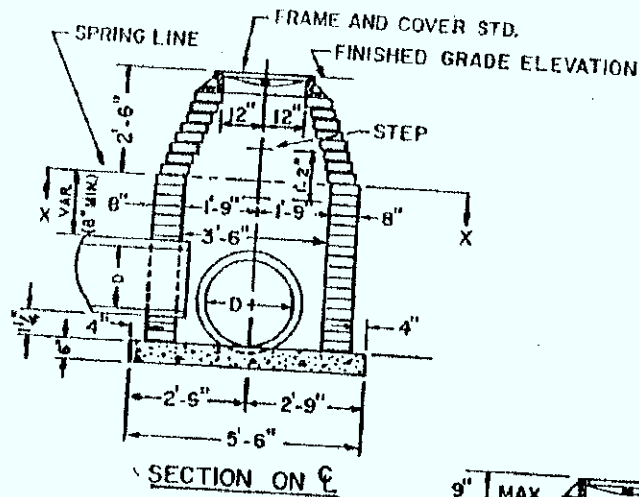
REVISIONS		
NO.	DATE	DESCRIPTION

STANDARD BRICK JUNCTION BOX
72" THRU 120" PIPE

APPROVED: DATE May 8, 1980

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

STD. NO.	REV.
2508	



GENERAL NOTES:

ALL MORTAR JOINTS ARE TO BE $1/2" + 1/8"$.

ALL EXPOSED JOINTS WILL BE CONCAVE TOOLED.

CLASS "A" CONCRETE TO BE USED FOR BASE.

FORMS ARE TO BE USED FOR THE CONSTRUCTION OF THE BASE.

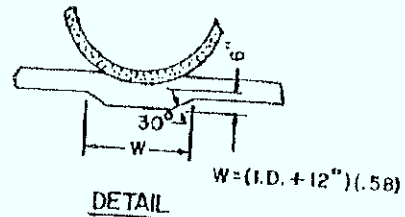
~~CONCRETE BRICK MAY BE USED IN LIEU OF CLAY BRICK.~~

~~JUMBO BRICK WILL BE PERMITTED.~~

WHERE THE MANHOLE IS EXPOSED TO ROAD TRAFFIC, THE TOP OF THE MANHOLE IS TO BE FLUSH WITH THE GROUND. AT OTHER LOCATIONS IT SHOULD BE A MINIMUM OF 9" ABOVE THE GROUND.

MANHOLES OVER 3'-6" IN DEPTH SHALL BE PROVIDED WITH STEPS 1'-0" ON CENTERS. STEPS SHALL BE IN ACCORDANCE WITH STD. NO. 25.12.

~~PRECAST SECTIONS MAY BE USED FOR ALL SECTIONS.~~

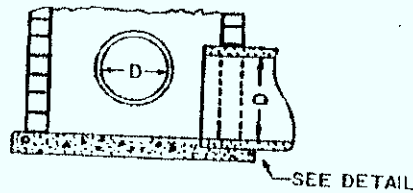
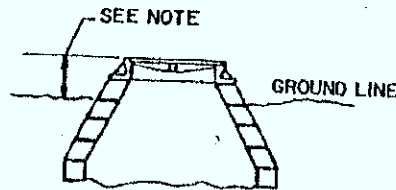
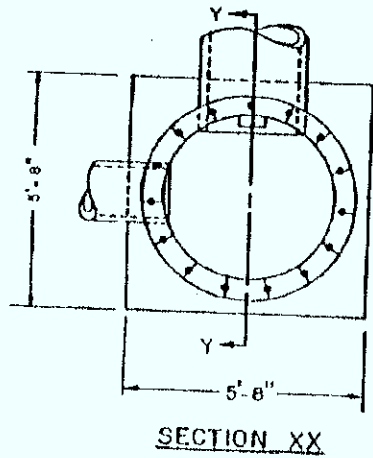
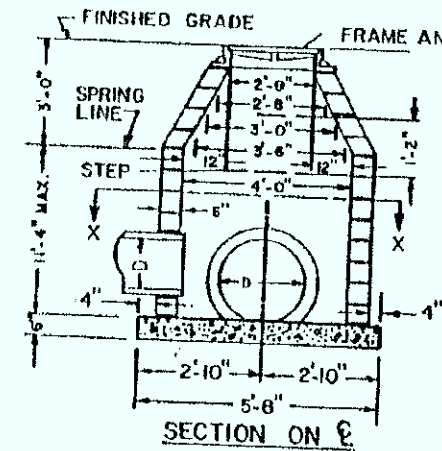


REVISIONS		
NO.	DATE	DESCRIPTION

STANDARD BRICK MANHOLE
 15" THRU 36" PIPE
 CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

APPROVED: DATE May 8, 1980

STD. NO.	REV.
25.09	



PART SECTION YY

GENERAL NOTES:

ALL MORTAR JOINTS ARE TO BE $1/2'' \pm 1/8''$.

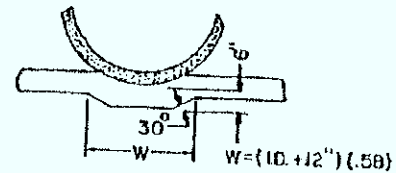
ALL EXPOSED JOINTS WILL BE CONCAVE TOOLED.

CLASS "AA" CONCRETE TO BE USED FOR BASE.

FORMS ARE TO BE USED FOR THE CONSTRUCTION OF THE BASE.

WHERE THE MANHOLE IS EXPOSED TO ROAD TRAFFIC, THE TOP OF THE MANHOLE IS TO BE FLUSH WITH THE GROUND. AT OTHER LOCATIONS IT SHOULD BE A MINIMUM OF 9" ABOVE THE GROUND.

ALL MANHOLES OVER 3'-6" IN DEPTH SHALL BE PROVIDED WITH STEPS 1' ON CENTERS. STEPS SHALL BE IN ACCORDANCE WITH STD. NO. 25.12.



DETAIL

REVISIONS		
NO.	DATE	DESCRIPTION

STANDARD BLOCK MANHOLE
15" THRU 36" PIPE

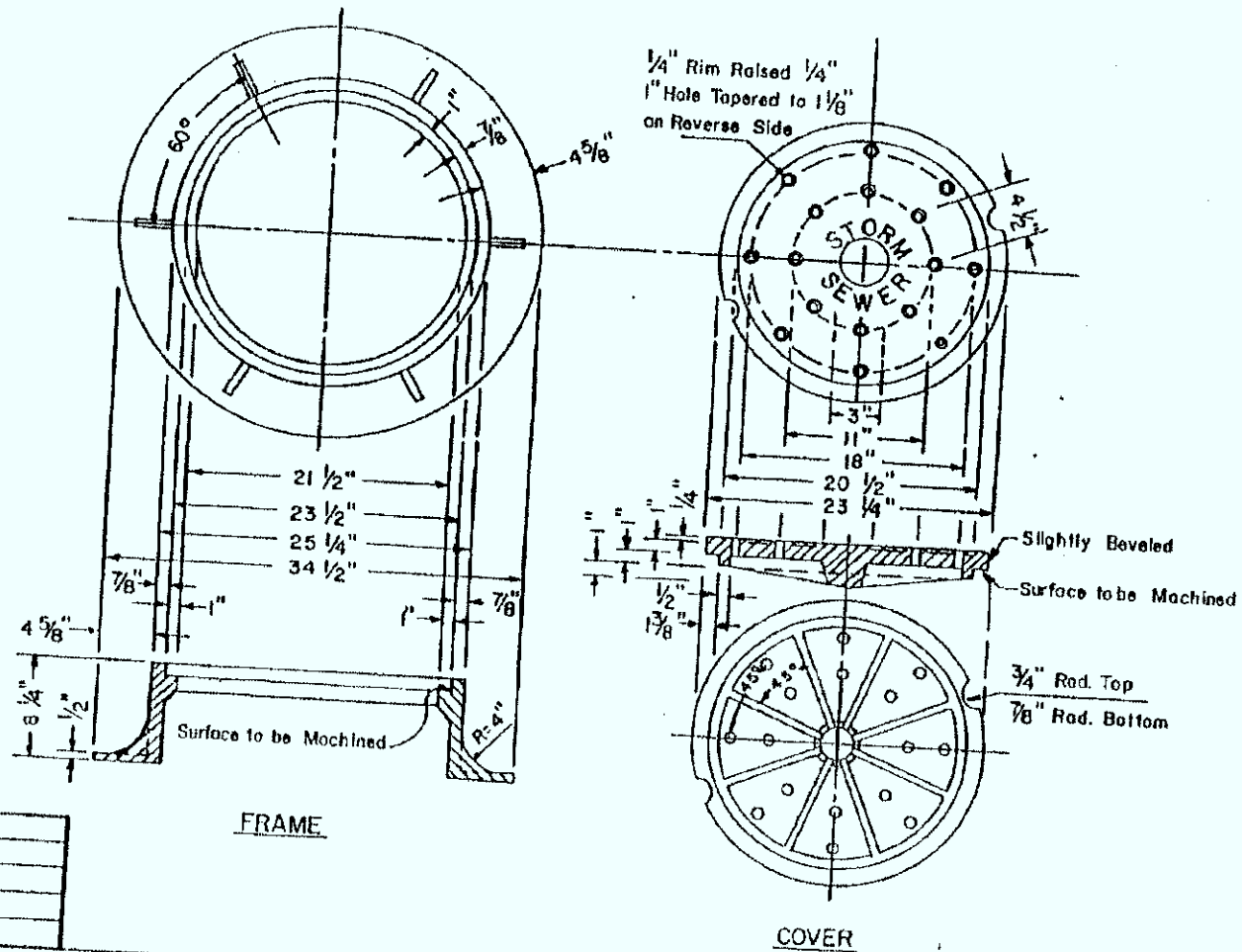
APPROVED: DATE May 8, 1980

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT. Item # 8

STD. NO.	REV.
25.10	

GENERAL NOTES:

ALL CASTINGS SHALL BE MADE OF CLEAN, EVEN GRAIN, TOUGH GREY CAST IRON. CASTING SHALL BE SMOOTH, TRUE TO PATTERN AND FREE FROM PROJECTIONS, SAND HOLES, WARP AND OTHER DEFECTS.
 ALL CASTINGS SHALL BE COATED WITH COAL TAR PITCH VARNISH WHILE HOT.
 ALL COVERS USED FOR STORM DRAIN STRUCTURES SHALL HAVE "STORM SEWER" CAST ON THEM.
 THE IRON USED FOR THESE CASTINGS SHALL CONFORM TO THE SPECIFICATIONS OF ASTM DESIGNATION A48 FOR CLASS 30 GREY IRON.
 APPROXIMATE WEIGHT 383 POUNDS.



REVISIONS		
NO.	DATE	DESCRIPTION

STANDARD MANHOLE FRAME, COVER

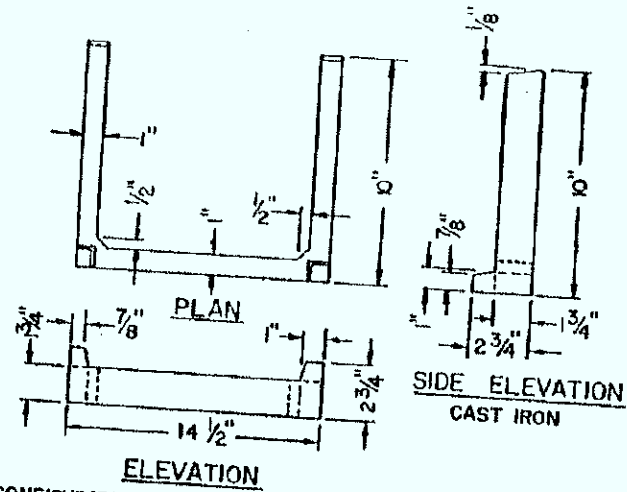
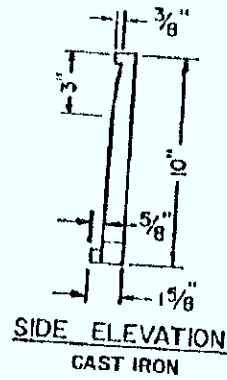
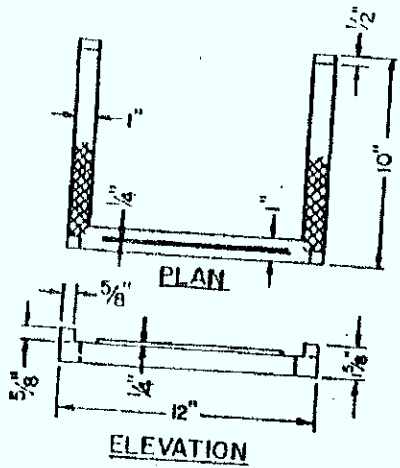
APPROVED: DATE May 8, 1980

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

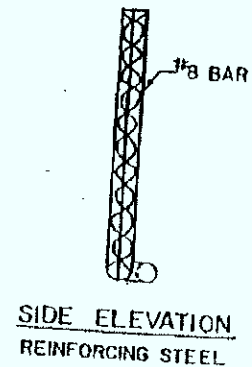
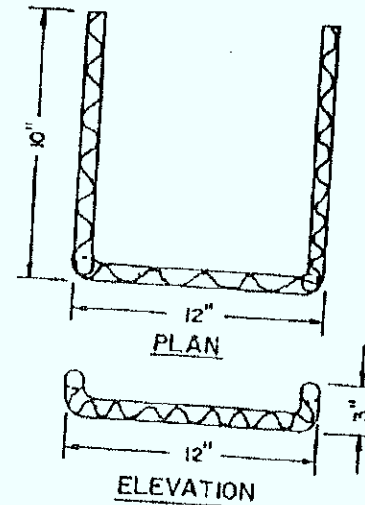
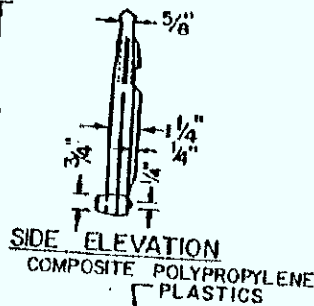
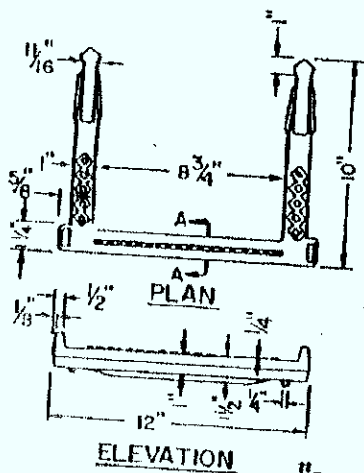
STD. NO.	REV.
2511	

NOTE: ALL STEPS SHALL PROT

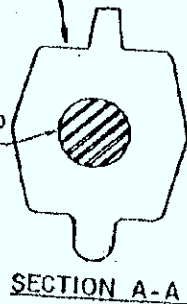
4" FROM INSIDE FACE OF STRUCTURAL WALL



NOTE: STEPS DIFFERING IN DIMENSIONS, CONFIGURATIONS, OR MATERIALS FROM THOSE SHOWN MAY ALSO BE USED PROVIDED THE CONTRACTOR HAS FURNISHED THE CITY WITH DETAILS OF THE PROPOSED STEPS AND HAS RECEIVED WRITTEN APPROVAL FROM THE CITY FOR THE USE OF SUCH STEPS.



#3 DEFORMED STEEL ROD



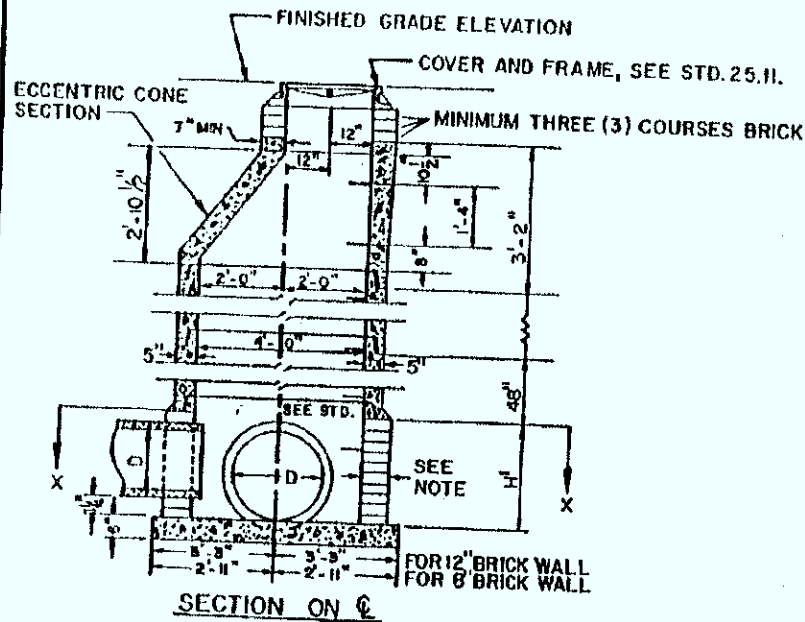
NO.		DATE		REVISIONS	
				DESCRIPTION	

NOTE: NOT TO BE USED IN SANITARY SEWER MANHOLE.
APPROVED: DATE May 8, 1980

STANDARD STEPS

CITY OF GREENVILLE, N.C. - ENGINEERING DEPT. Item # 8

STD. NO. REV.



GENERAL NOTES:

ALL MORTAR JOINTS TO BE 1/2" - 1/8". CONCRETE TO BE CLASS "A" FOR BASE FORMS ARE TO BE USED FOR CONSTRUCTION OF THE BASE.

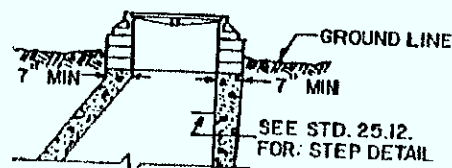
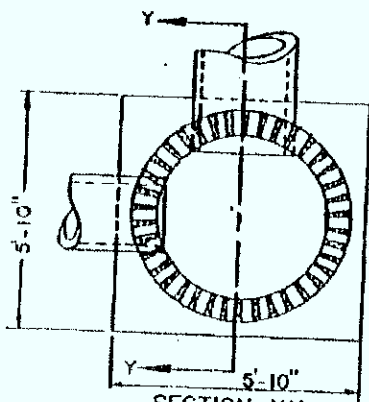
BRICK:

~~PRECAST MANHOLE COMPONENTS SHALL MEET REQUIREMENTS OF ASTM-C-478.~~
 FOR MANHOLES OVER 12 FT. VERTICAL WALL DEPTH, BRICK MASONRY WALL THICKNESS SHALL BE 12".
 FOR MANHOLES WITH A VERTICAL WALL DEPTH LESS THAN 12 FT., BRICK MASONRY WALL THICKNESS SHALL BE 8".

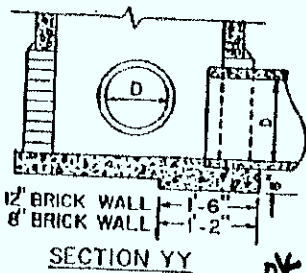
MANHOLES OVER 3'-6" IN DEPTH SHALL BE PROVIDED WITH STEPS 1'-0" ON CENTERS.
 STEPS TO BE IN ACCORDANCE WITH STD. NO. 25.12.
~~PRECAST SECTIONS MAY BE USED FOR ALL SECTIONS.~~

~~ADD~~

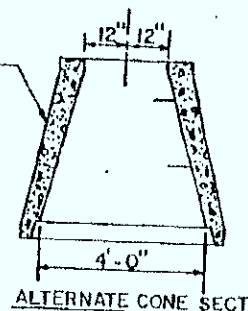
Engineered pre-cast boxes are permitted with the City Engineer's approval.



SEE STD. 25.12. FOR: STEP DETAIL



CONCENTRIC CONE SECTION



DIMENSIONS	
PIPE DIAM	BRICK HEIGHT
D	H (MIN)
15"	1'-8"
18"	1'-11"
24"	2'-6"
30"	3'-0"
36"	3'-7"
42"	4'-2"

NO.	DATE	DESCRIPTION

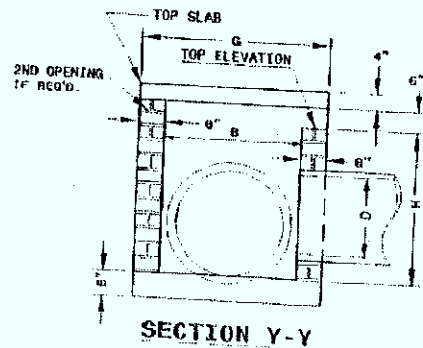
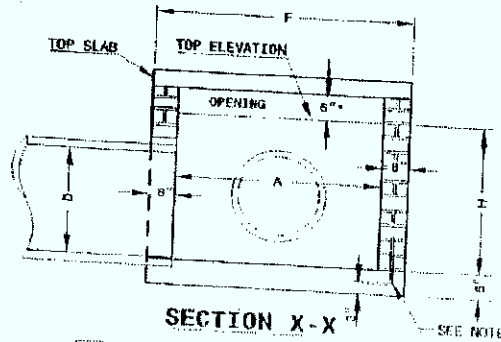
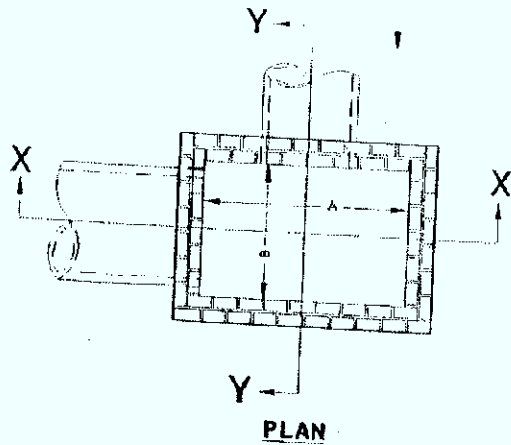
STANDARD ~~PRECAST~~ PIPE MANHOLE
 15" THRU 42" PIPE

APPROVED: DATE May 8, 1980

CITY OF GREENVILLE, N.C. - ENGINEERING DEPT.

STD. NO.	REV.
25.12	

BRICK OPEN THROAT CATCH BASIN
15" THRU 48" PIPE



- NOTES: MORTAR JOINTS $\frac{1}{2}$ " \times $\frac{1}{4}$ " THICK.
 USE CLASS ~~X~~ CONCRETE THROUGHOUT.
 USE FORMS FOR CONSTRUCTION OF THE BOTTOM SLAB.
 USE #4 BAR DOWELS AT 12" CENTERS.
 DEDUCT FOR PIPE(S) FROM TOTAL CU. YDS. OF BRICK MASONRY.
 PROVIDE ALL CATCH BASINS OVER 3' 6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840,66.
 CONCAVE TOOL ALL EXPOSED MORTAR JOINTS. **NO. 7512**
~~USE BRICK OR CONCRETE BLOCK WHICH COMPLY WITH THE REQUIREMENTS OF SECTION 840 OF THE STANDARD SPECIFICATIONS.~~
 IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 848,00 $\frac{1}{2}$ " \times $\frac{1}{4}$ "
 FOR 8'-0" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB. OVER 8'-0" TO 16'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.
 CONSTRUCT WITH PIPE CROWNS MATCHING.
 CHAMFER ALL EXPOSED CORNERS 1".
 DRAWING NOT TO SCALE.
 * INCREASE THE SIZE OF THE 6" OPENING TO 8" MAX., AS DIRECTED BY THE ENGINEER BY ADDING 2" TO THE WALL HEIGHT ABOVE THE TOP ELEVATION. ADJUST QUANTITIES ACCORDINGLY.

Engineered pre-cast boxes are permitted with the City Engineer's approval. **ADD**

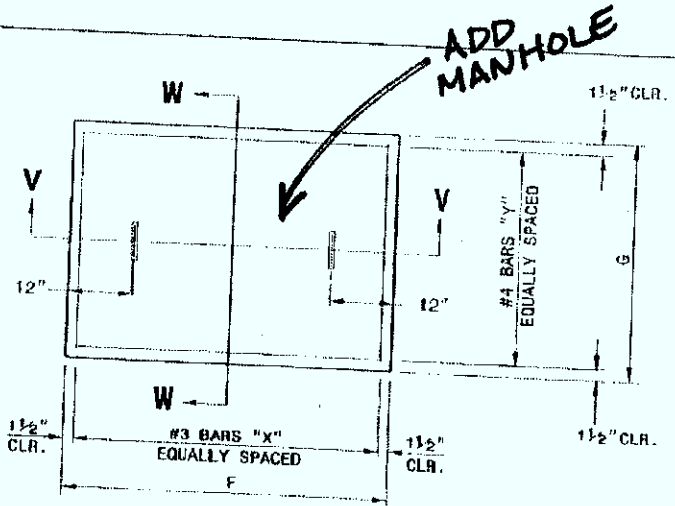
Concrete brick may be used in lieu of clay brick. Jumbo brick will be permitted. **ADD**

BRICK OPEN THROAT CATCH BASIN
15" THRU 48" PIPE

DIM'S OF BOX & PIPE				MIN. DIMENSIONS AND QUANTITIES FOR CATCH BASIN (BASED ON MIN. HEIGHT, H)														
PIPE D	SPAN A	WIDTH B	HEIGHT H	REINFORCING			SLAB DIMENSIONS		CU. YDS. CONC. IN BOX			TOTAL BRICK MASONRY		DEDUCTION CONC. PIPE		DEG. ORF 6" THROAT OPENING CU. YDS.		
				NO.	LENGTH	NO. (DEPTH)	F	G	TOP SLAB	BOT. SLAB	TOTAL	PER FT. H	C.S.	N.C.				
12"	3'-6"	2'-3"	1'-10"	5	3'-4"	7	4'-7"	28	4'-10"	3'-7"	0.214	0.321	0.535	0.960	0.658	0.020	0.087	0.043
15"	3'-6"	2'-3"	2'-1"	5	3'-4"	7	4'-7"	28	4'-10"	3'-7"	0.214	0.321	0.535	0.960	0.658	0.020	0.087	0.043
18"	4'-0"	2'-8"	2'-4"	6	3'-9"	8	5'-1"	36	5'-4"	4'-0"	0.263	0.395	0.658	0.395	0.938	0.041	0.081	0.040
21"	4'-0"	2'-8"	2'-10"	6	3'-9"	8	5'-1"	36	5'-4"	4'-0"	0.263	0.395	0.658	0.395	1.136	0.078	0.134	0.049
30"	4'-0"	3'-6"	3'-4"	6	4'-7"	10	5'-1"	44	5'-4"	4'-10"	0.318	0.477	0.795	0.436	1.472	0.122	0.199	0.049
36"	4'-6"	4'-0"	3'-10"	6	5'-1"	11	5'-7"	52	5'-10"	5'-4"	0.384	0.570	0.960	0.485	1.879	0.175	0.270	0.058
42"	5'-0"	4'-6"	4'-4"	6	5'-7"	13	6'-1"	65	6'-4"	5'-10"	0.456	0.654	1.140	0.535	2.340	0.248	0.371	0.062
48"	5'-0"	5'-0"	4'-10"	6	6'-1"	14	6'-1"	71	6'-4"	6'-4"	0.495	0.743	1.238	0.559	2.725	0.313	0.476	0.062

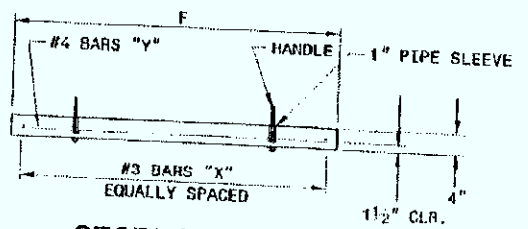
SHEET 1 OF 2

SHEET 1 OF 2

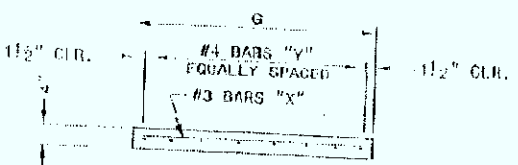


PLAN

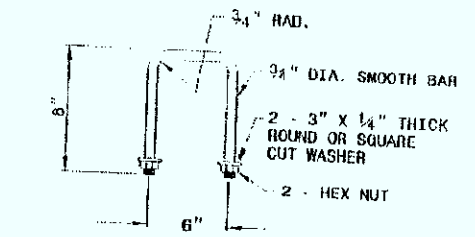
PRECAST OR CAST IN PLACE TOP SLAB



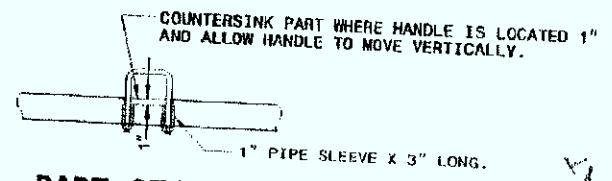
SECTION V-V



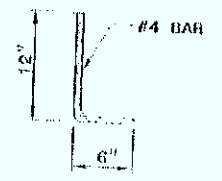
SECTION W-W



DETAIL OF HANDLE



PART SECTION
THRU COVER SHOWING HANDLE

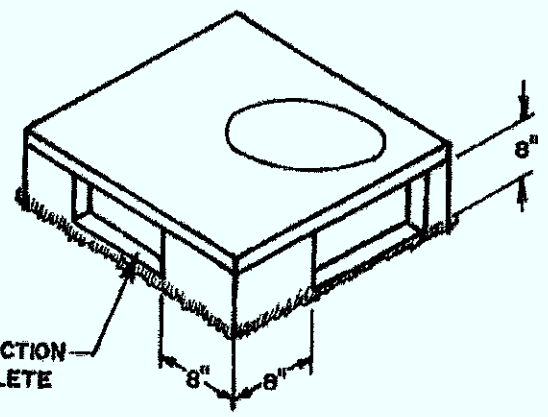
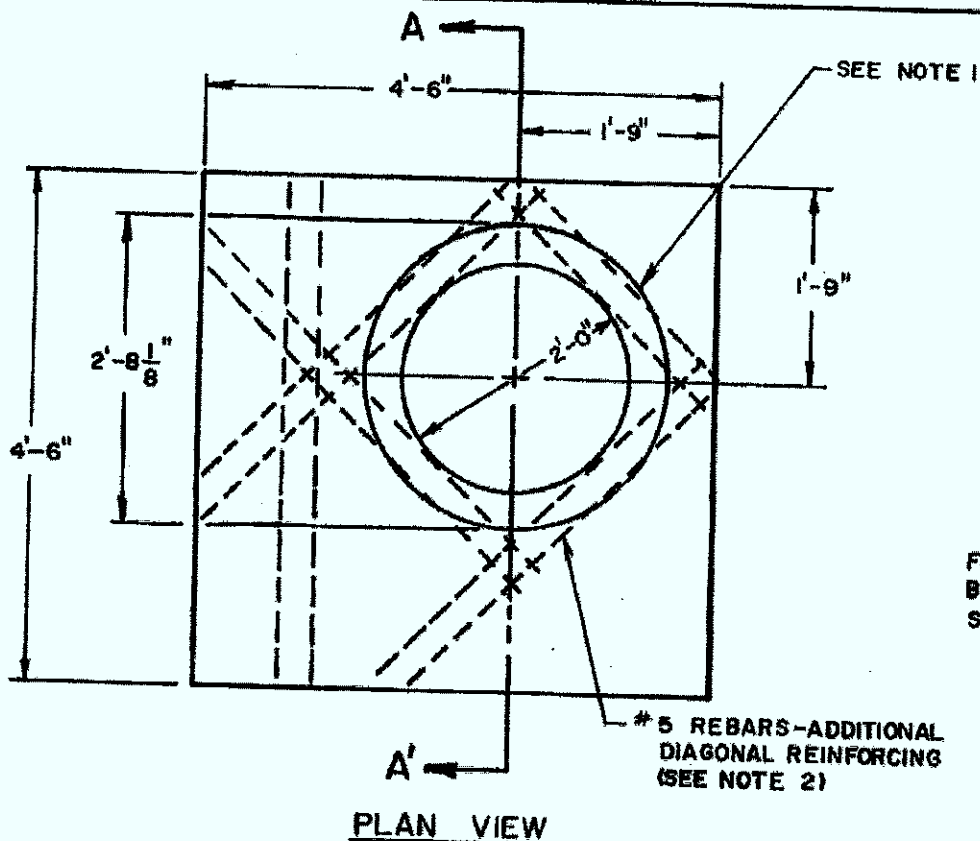


DOWEL

BRICK CATCH BASIN WITH
1 1/2" THRU 48" PIPE

BRICK CATCH BASIN
1 1/2" THRU 48" PIPE

ENGINEERING DEPARTMENT
STANDARD DETAILS



ISOMETRIC VIEW

PLAN VIEW

CONCRETE COVER

NOTES:

1. ~~SHOWN WITH EAST JORDAN IRON WORKS FLUSH MOUNT MANHOLE FOR USE WITH ALL YARD INLETS & AS AN ALTERNATE FOR JUNCTION BOXES IN SIDEWALKS OR YARD AREAS ONLY. FOR ALL OTHER JUNCTION BOXES USE MANHOLES SPECIFIED IN STD. DET. SD 40, GROUT AS SHOWN.~~
2. COVER TO BE 4000 PSI CONCRETE WITH #5 REBAR @ 6" O.C. EACH WAY.
3. SEE STANDARD DETAIL ~~SD 2A~~ FOR SECTION A-A'.

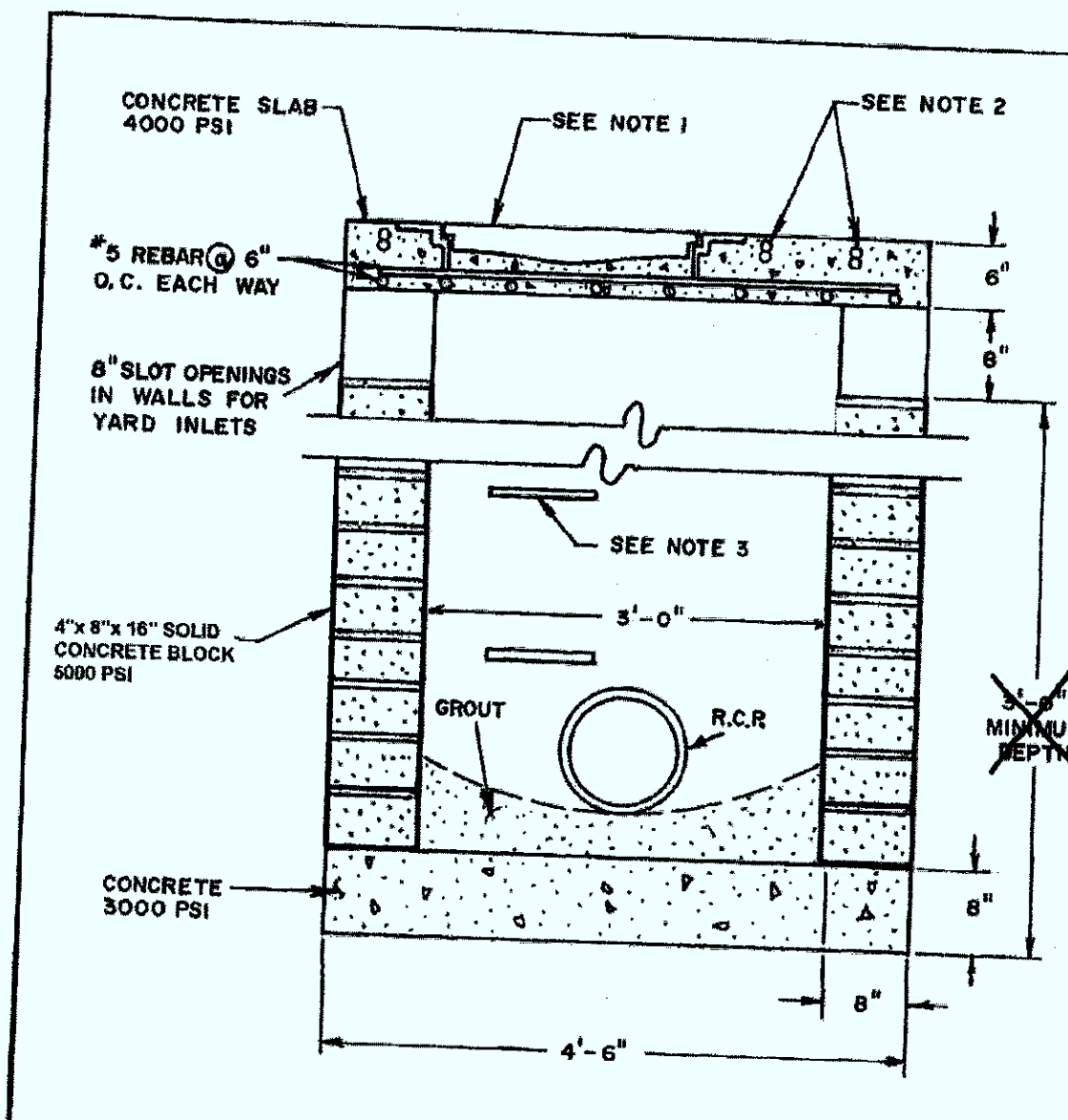
NO SCALE

TITLE
 OPEN THROAT
 YARD INLET/
 JUNCTION BOX

REVISIONS		
NO	DATE	BY

DET.NO.

ENGINEERING DEPARTMENT
STANDARD DETAILS



NOTES:

1. ~~EAST JORDAN IRON WORKS FLUSH MOUNT MANHOLE & MH RING. SEE STD. DETAIL 99-407~~
2. #5 REBAR PLACED DIAGONALLY AROUND MANHOLE RING. SEE STD. DET. 99-27
3. ~~MANHOLE STEPS @ 15" O.C. 1st STEP IS 2'-0" FROM TOP.~~
4. ~~THIS DETAIL MAY BE USED AS AN ALTERNATE FOR JUNCTION BOXES IN SIDEWALK OR YARD AREAS ONLY.~~
5. Provide all yard inlets over 3'-6" in depth with steps 12" on center. Use steps which comply with STD. NO. 25.12.

SECTION A-A'

NO SCALE

TITLE OPEN THROAT YARD INLET-	REVISIONS			DET. NO.
	NO	DATE	BY	

ADD : Engineered precast boxes are permitted with the City Engineer's approval.

ADD : Clay brick may be used in lieu of concrete brick. Jumbo brick will be permitted. Item #8

CONSTRUCTION PLAN PREPARATION

Item # 8

CONSTRUCTION PLAN PREPARATION

CONSTRUCTION PLAN REQUIREMENTS

A. FORMAT

1. Provide cover sheet at scale of 1" = 100' or larger. Use same scale as preliminary plat.
2. Construction plans to be scale 1" = 50' or larger.
3. Size shall be 24" x 36" or 30" x 42". Use same size as preliminary plat.
4. Boundary lines shall be distinctly and accurately represented, all bearing and distances shown with an accuracy of closure of not less than one (1) in 10,000+ and in accordance with the Standards of Practice for Land Surveying in North Carolina.
5. Elevation and bench markers shall be referenced to NAVD 88.
6. All drawings shall be prepared and sealed by a professional engineer and/or land surveyor.
7. Multiple sheets shall be collated and stapled. Match lines shall be clearly indicated.
8. (a) Two (2) paper copies at the time of original submission for department review.
(b) Two (2) copies shall be submitted following a request for revisions.
(c) One (1) copy of the approved plan.
9. Profiles shall be drawn at a scale of not less than one (1) inch equals fifty (50) feet, horizontal, and one (1) inch equals 5 (five) feet, vertical.

B. GENERAL INFORMATION (COVER SHEET AND PLAN AND PROFILE SHEETS)

1. Subdivision name.
2. The name(s) of the city, township, county, and state in which the subdivision is located.
3. Name, address, and telephone number of land owner(s).
4. Name, address, and telephone number of the subdivider and/or developer.
5. Name, address, telephone number, and license number of the engineer preparing the plat.

6. North Carolina registration number and seal as listed per five (5) above.

C. PLAN INFORMATION

I. Cover Sheet

1. The cover or title sheet shall be in accordance with Section 9-5-45 of the City Code.

II. Plan and Profile Sheets

1. North arrow and delineation as to whether true, grid or magnetic including date.
2. Existing, platted and proposed streets, their names and numbers (if state marked routes), right of way and/or easement widths, pavement widths, tangent distance between reverse curves, centerline curve and corner radius data, including sight distance triangle and typical cross sections.
3. Proposed and existing lot lines within the subdivision showing approximate dimensions.
4. Proposed and existing property lines
5. Proposed and existing water courses, streams, or ditches including centerline elevations, cross sections, and other pertinent data.
6. Floodplain boundaries, flood hazard area designation, floodway boundaries, and designation, including base flood elevations and FIRM panel reference.
7. Elevation of proposed and existing ground surface at all street intersections and points of major change along centerline of streets, together with proposed grade lines connecting therewith.
8. The profile of each proposed street shall show clearly and accurately the mathematical relation of the established new street grades and their relation to the existing street grades with which they connect.
9. The profiles shall show the finished elevation of the top of curb or street centerline for non-curb and gutter street sections.
10. The profiles of each street shall contain at least one (1) typical section, indicating the particular section to which the established profile grade refers. Each profile shall show the percentage of grade, the length of vertical curve,

the P.V.C. and the P.V.T. Station, the P.V.I. Station, elevation, and midordinate.

11. The profiles of each storm sewer and sanitary sewer system shall contain the percentage of grade and the top and invert elevation of each catch basin and manhole.

D. SUPPORTING TECHNICAL INFORMATION

1. All storm drainage design shall be in accordance with Section 9-9 of the City Code and Series 15 of this manual.
2. Charts SD-8 (Catch Basin Design Data Sheet) and SD-9 (Storm Drainage Design Data Sheet) shall be required.

DRIVEWAYS

Item # 8

DRIVEWAY DIMENSIONS		
OPERATION/RADIUS	MINIMUM	MAXIMUM
ONE-WAY	12'	18'
TWO-WAY WITH	24'	36'

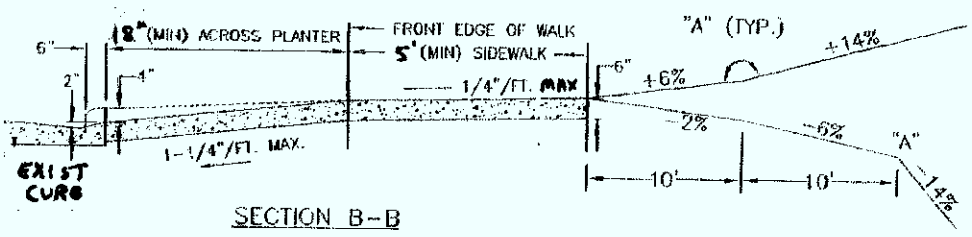
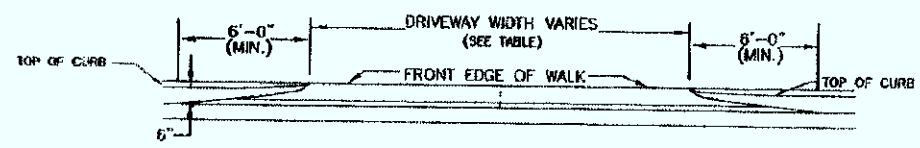
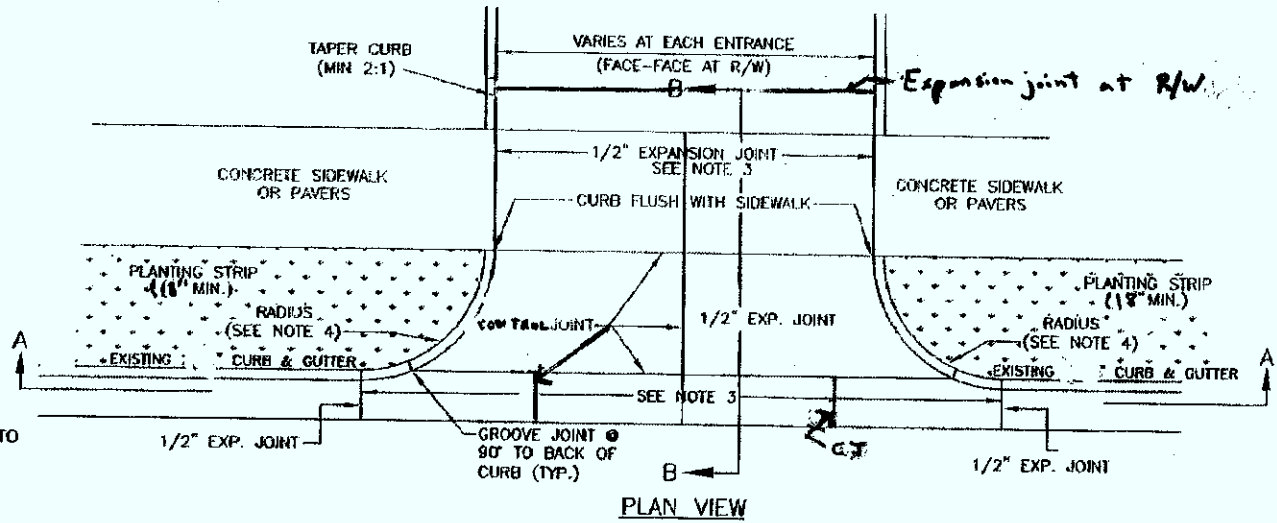
NOTES:

1. ALL CONCRETE TO BE 3000 P.S.I. COMPRESSIVE STRENGTH.
2. AT ALL DRIVEWAYS, SIDEWALKS TO BE REMOVED TO THE NEAREST JOINT BEYOND NEW CONSTRUCTION OR CUT WITH A SAW AND REMOVED. SAW CUT OR JOINT TO BE PERPENDICULAR TO EDGE OF EXISTING PAVEMENT.

3. ALL DRIVEWAYS MUST MEET THE CURRENT CITY DRIVEWAY REGULATIONS AND NCDOT REQUIREMENTS FOR SPACING, SIGHT DISTANCE, AND OFFSETS FROM PROPERTY LINES AND INTERSECTIONS.
4. RADIUS MUST BE MINIMUM 5' FEET OR THE WIDTH OF THE PLANTING STRIP, WHICHEVER IS GREATER.

5. PAVERS USED IN DRIVEWAY MUST HAVE A THICKNESS OF 3 INCHES.
6. ALGEBRAIC DIFFERENCE IN GRADE ("A") BETWEEN SLOPES SHALL BE 8% OR LESS.

7. SPECIAL CONDITIONS MAY WARRANT EXCEPTIONS TO THIS DETAIL. SUBJECT TO APPROVAL BY CITY ENGINEER...



NOT TO SCALE

APPROVED DATE _____

TYPICAL CONCRETE DRIVEWAY DETAIL
(COMMERCIAL, INDUSTRIAL, INSTITUTIONAL, MULTIFAMILY)

SHEET NO.	REV.

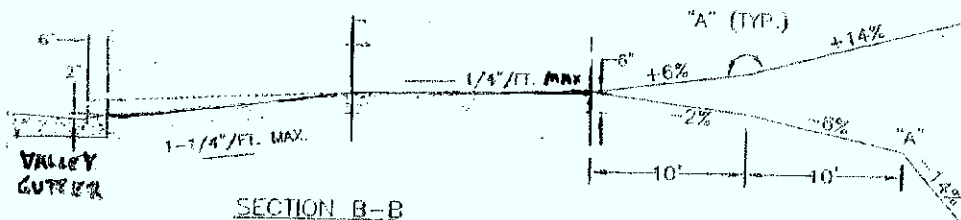
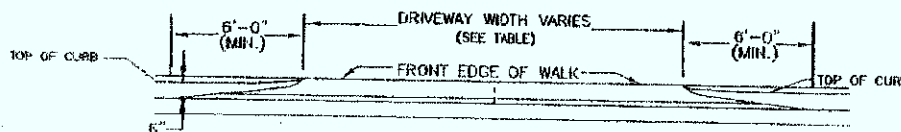
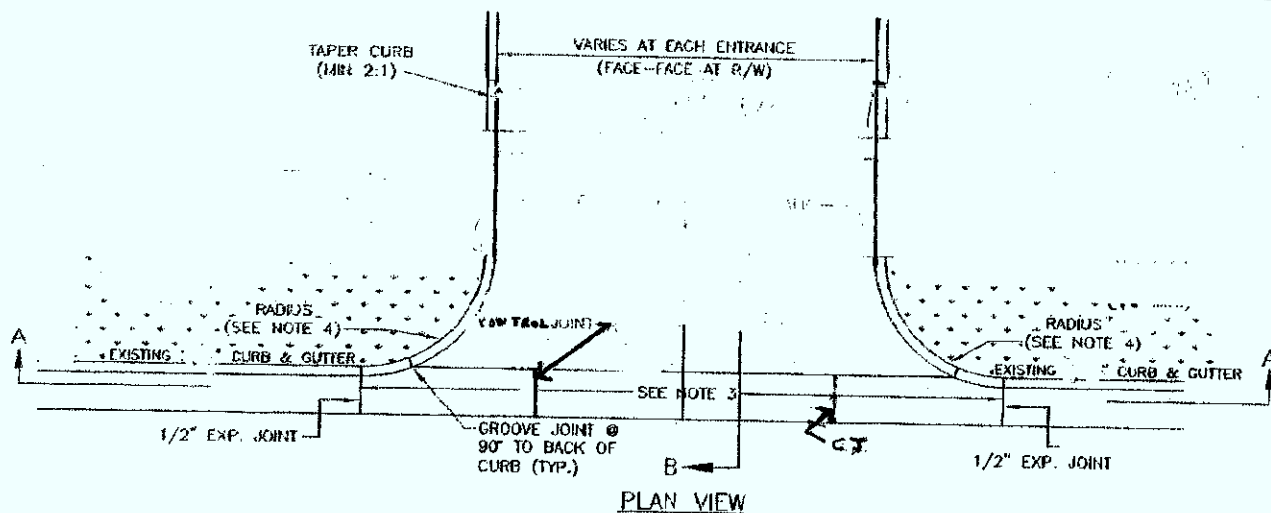
DRIVEWAY DIMENSIONS		
OPERATION/RADIUS	MINIMUM	MAXIMUM
ONE-WAY	12'	18'
TWO-WAY WITH	24'	36'

NOTES:

1. ALL DRIVEWAYS MUST MEET THE CURRENT CITY DRIVEWAY REGULATIONS AND NCDOT REQUIREMENTS FOR SPACING, SIGHT DISTANCE, AND OFFSETS FROM PROPERTY LINES AND INTERSECTIONS.

2. ALGEBRAIC DIFFERENCE IN GRADE (%) BETWEEN SLOPES SHALL BE 8% OR LESS.

3. SPECIAL CONDITIONS MAY WARRANT EXCEPTIONS TO THIS DETAIL. SUBJECT TO APPROVAL BY CITY ENGINEER.

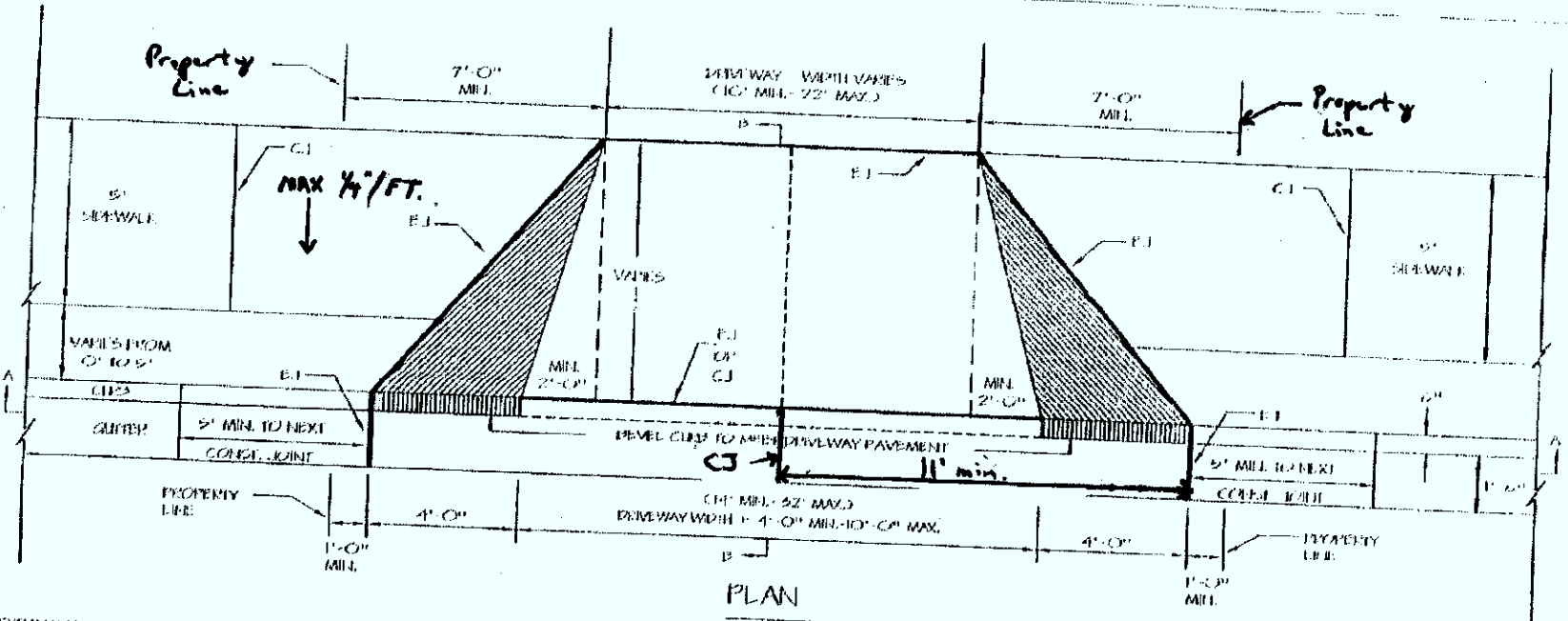


NOT TO SCALE

APPROVED DATE _____

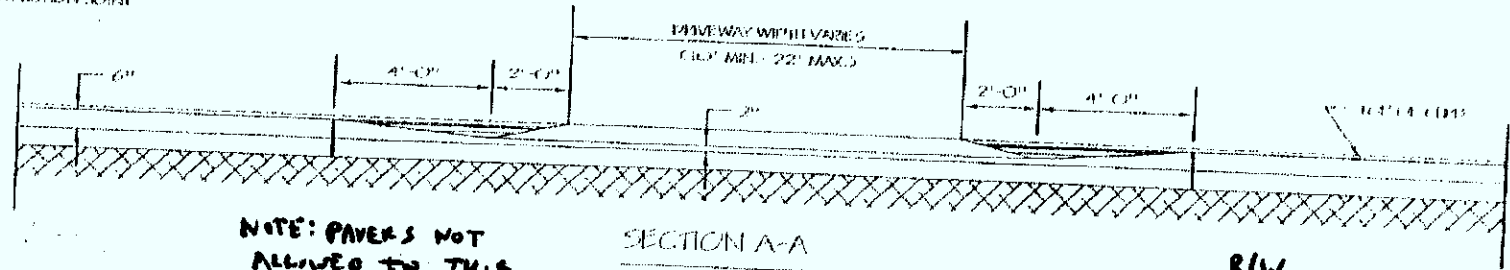
TYPICAL ASPHALT DRIVEWAY DETAIL
(COMMERCIAL, INDUSTRIAL, INSTITUTIONAL, MULTIFAMILY)

SITE NO. REV.



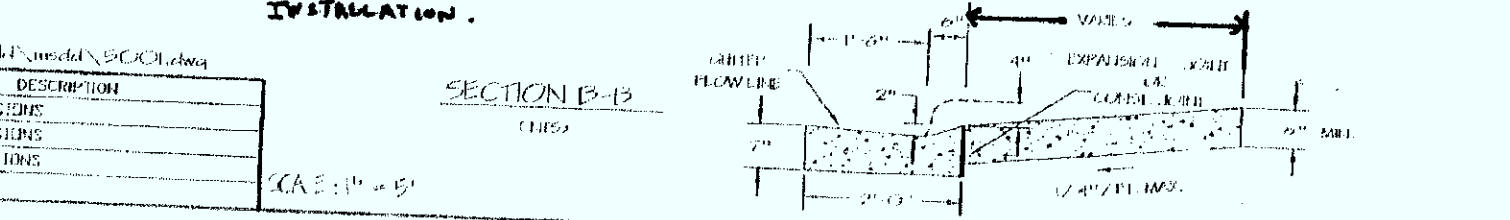
PLAN

EJ - EXPANSION JOINT
CJ - CONSTRUCTION JOINT



SECTION A-A

NOTE: PAVERS NOT ALLOWED IN THIS INSTALLATION.



SECTION B-B

SCALE: 1" = 5'

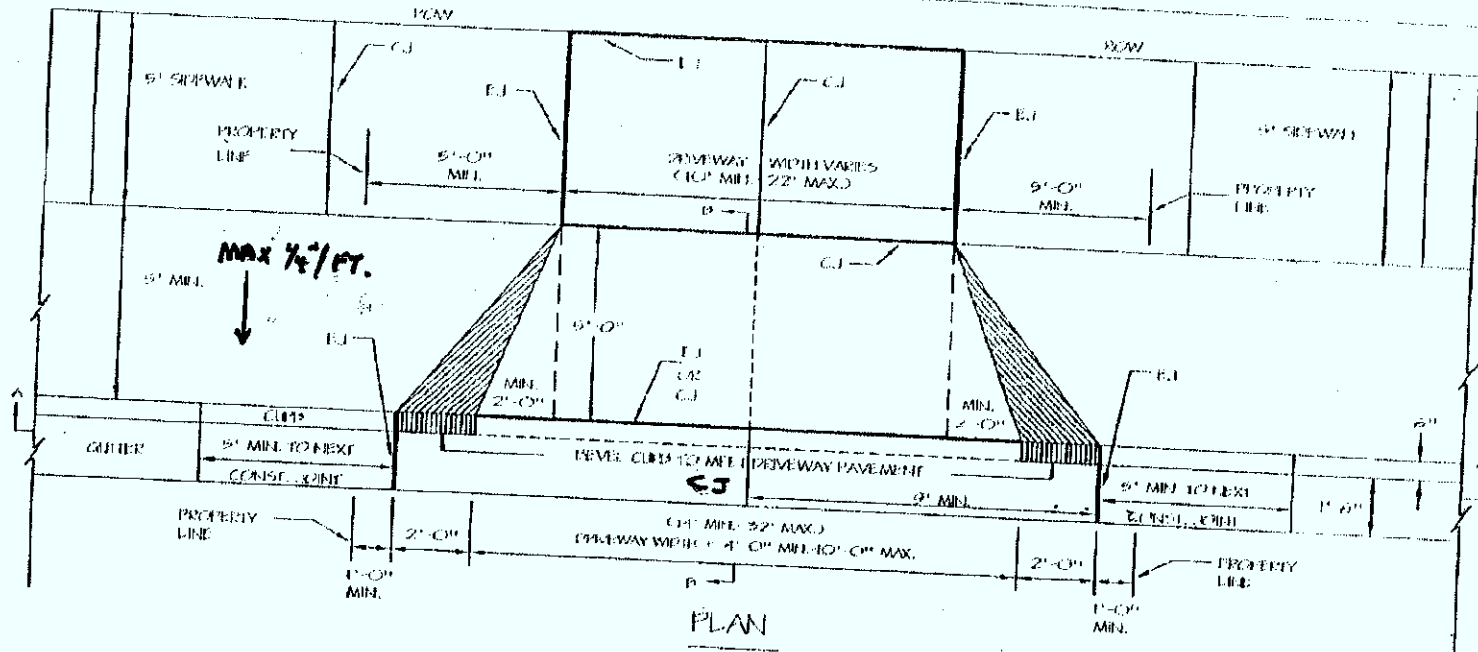
filename: E:\work\p\msdd\5001.dwg

NO.	DATE	DESCRIPTION
	04/28/98	REVISIONS
	11/10/98	REVISIONS
	08/10/99	REVISIONS

APPROVAL DATE

SH	HQ	REV
0000A		1

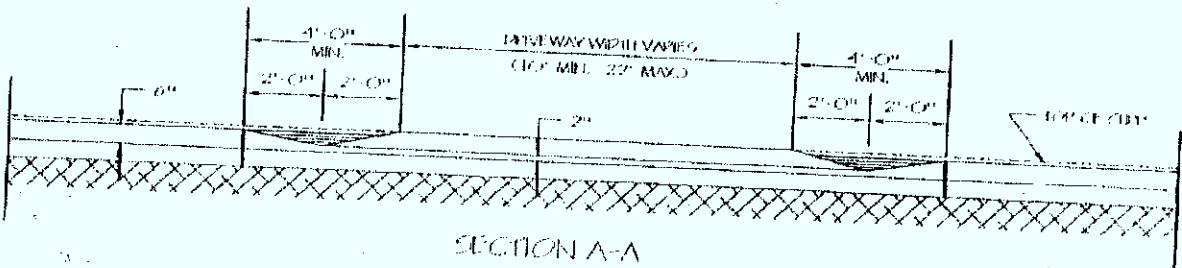
RESIDENTIAL DRIVEWAY
WITH SIDEWALK WITHIN 5' OF CURB
CITY OF GREENVILLE, N. C. ENGINEERING DIVISION



MAX 1/4" / FT.

PLAN

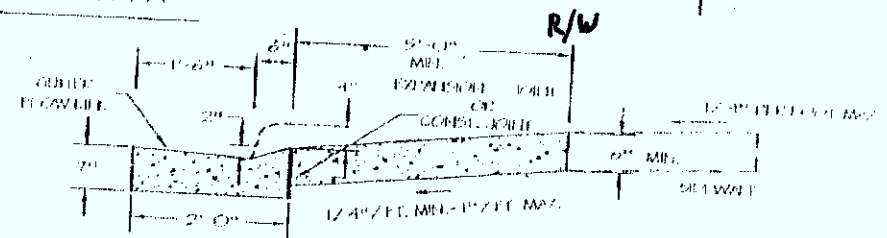
EJ - EXPANSION JOINT
CJ - CONTROL JOINT



SECTION A-A

NOTE: PAVERS NOT ALLOWED IN THIS INSTALLATION.

SECTION B-B



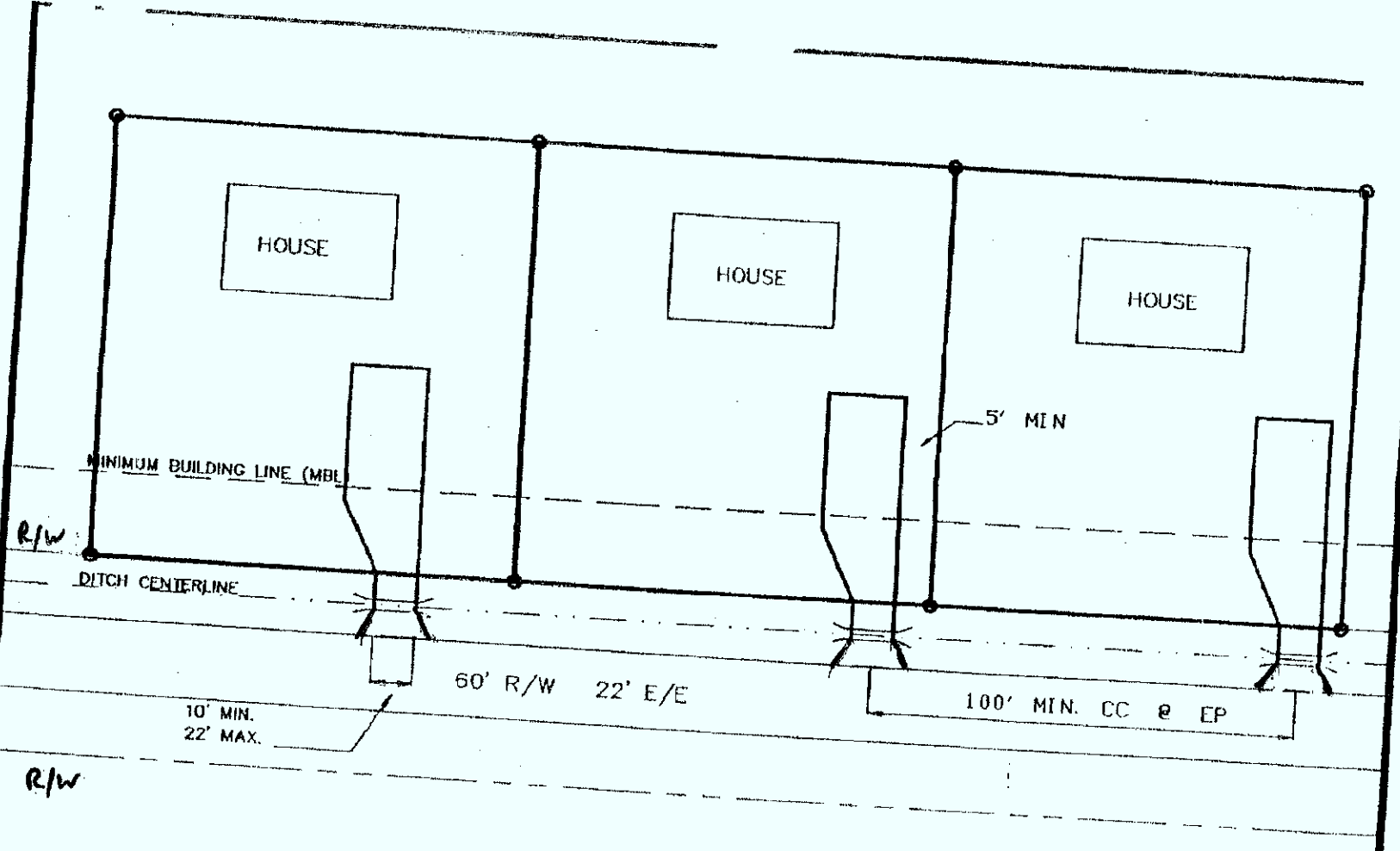
SCALE: 1" = 6'

NO.	DATE	DESCRIPTION
	04/25/98	REVISIONS
	01/10/98	REVISIONS
	08/10/99	REVISIONS

APPROVAL DATE

SCALE	REV.
06/2015	1

RESIDENTIAL DRIVEWAY
WITH SIDEWALK GREATER THAN 5' FROM CURB
CITY OF GREENVILLE, N. C. ENGINEERING DIVISION



NO.	DATE	DESCRIPTION
	7/1/97	NEW STANDARD

NTS

DRIVEWAY SPACING DETAIL
(NON C&G STREET)

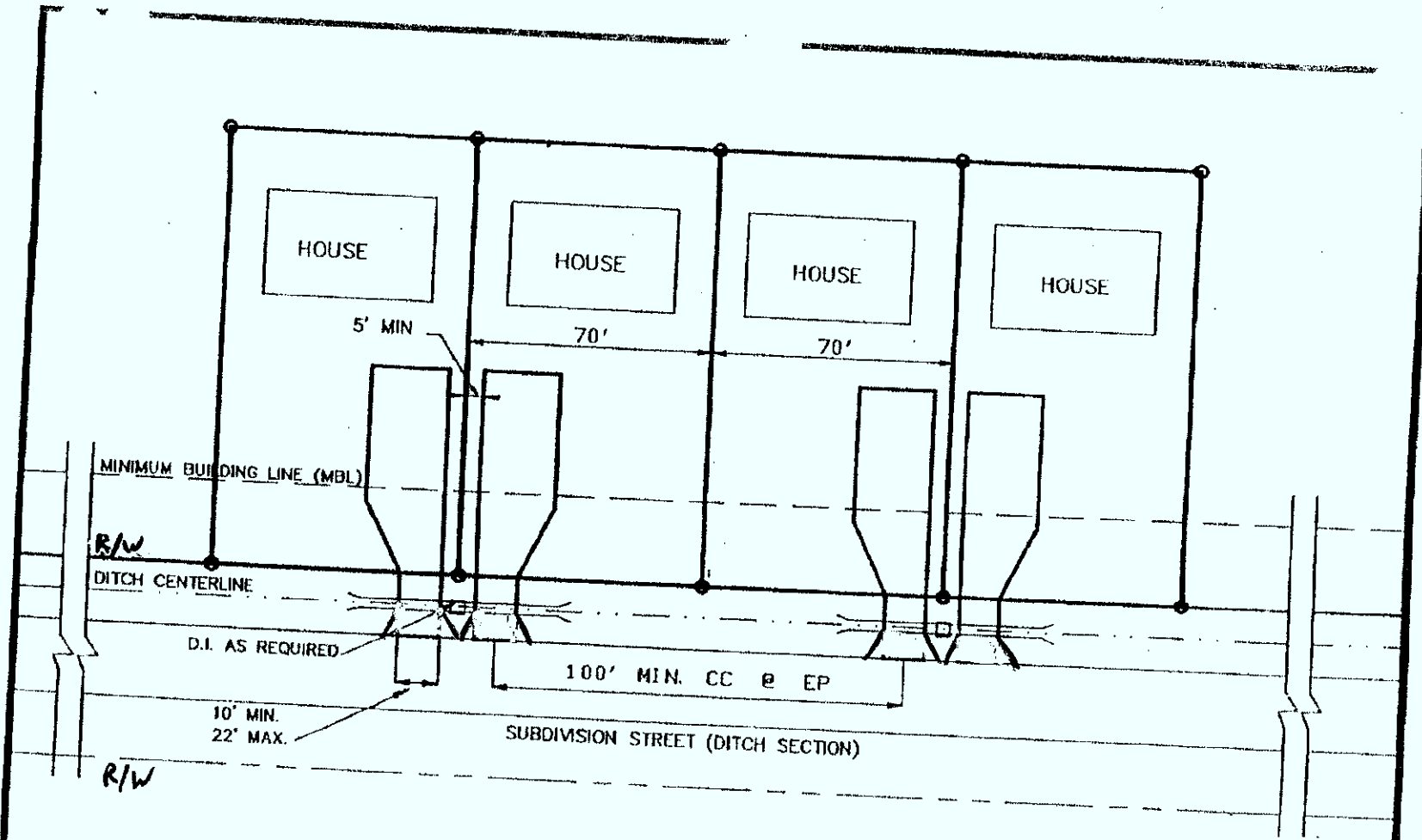
APPROVED DATE 7/1/97

CITY OF GREENVILLE, N. C. ENGINEERING DIVISION

H:\PROJ\MSDD\DWG\100DW

STD. NO.	REV.
50.09	

Item # 8



NO.	DATE	DESCRIPTION
	7/1/97	NEW STANDARD

NTS

APPROVED: DATE 7/1/97

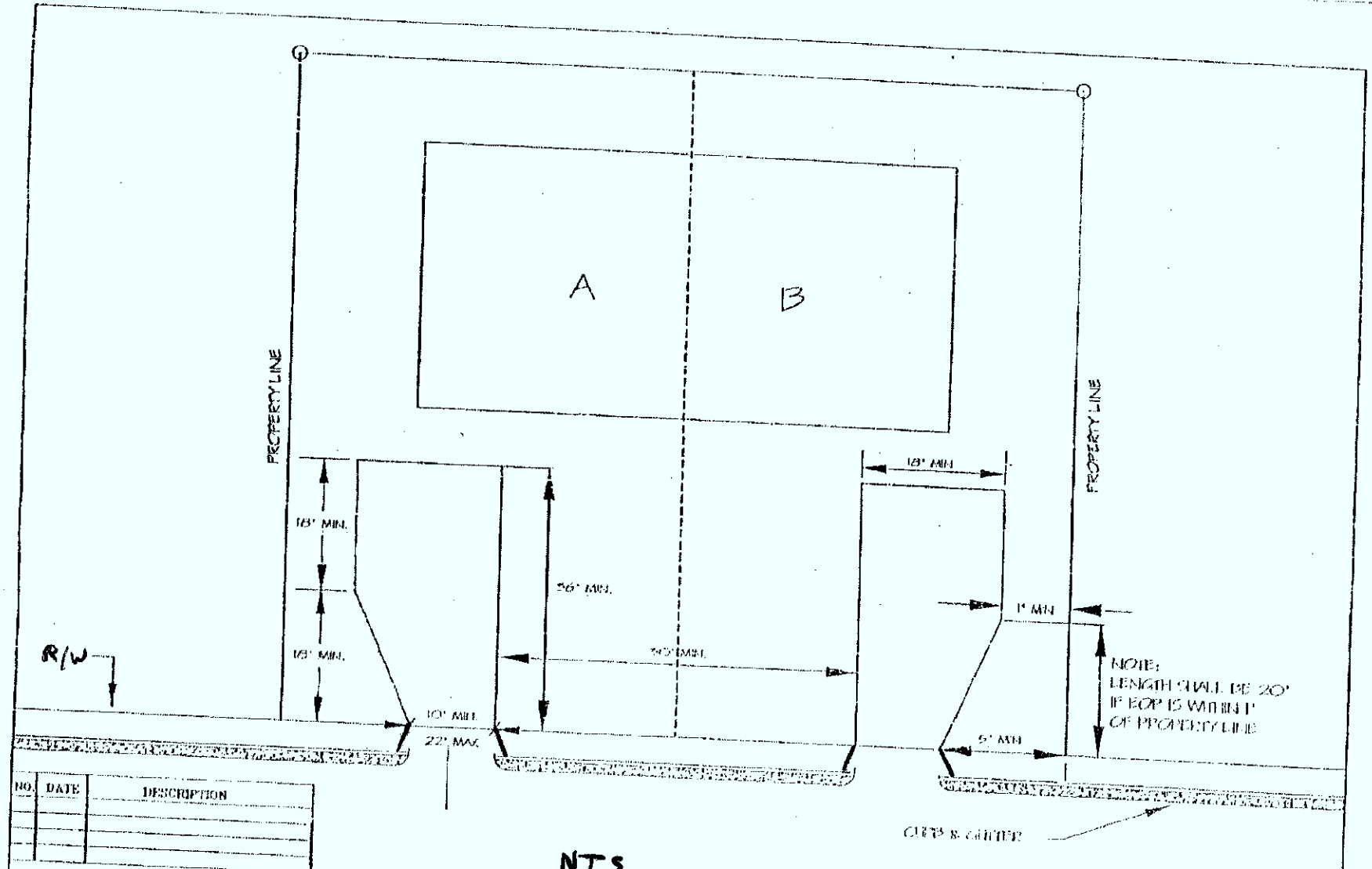
DRIVEWAY SPACING DETAIL
(NON C&G STREET)
SHARED CULVERT

CITY OF GREENVILLE, N. C. ENGINEERING DIVISION

H: \PROJ\MSDD\DWG\1000W

STD. FIG.	REV.
50.10	

Item # 8

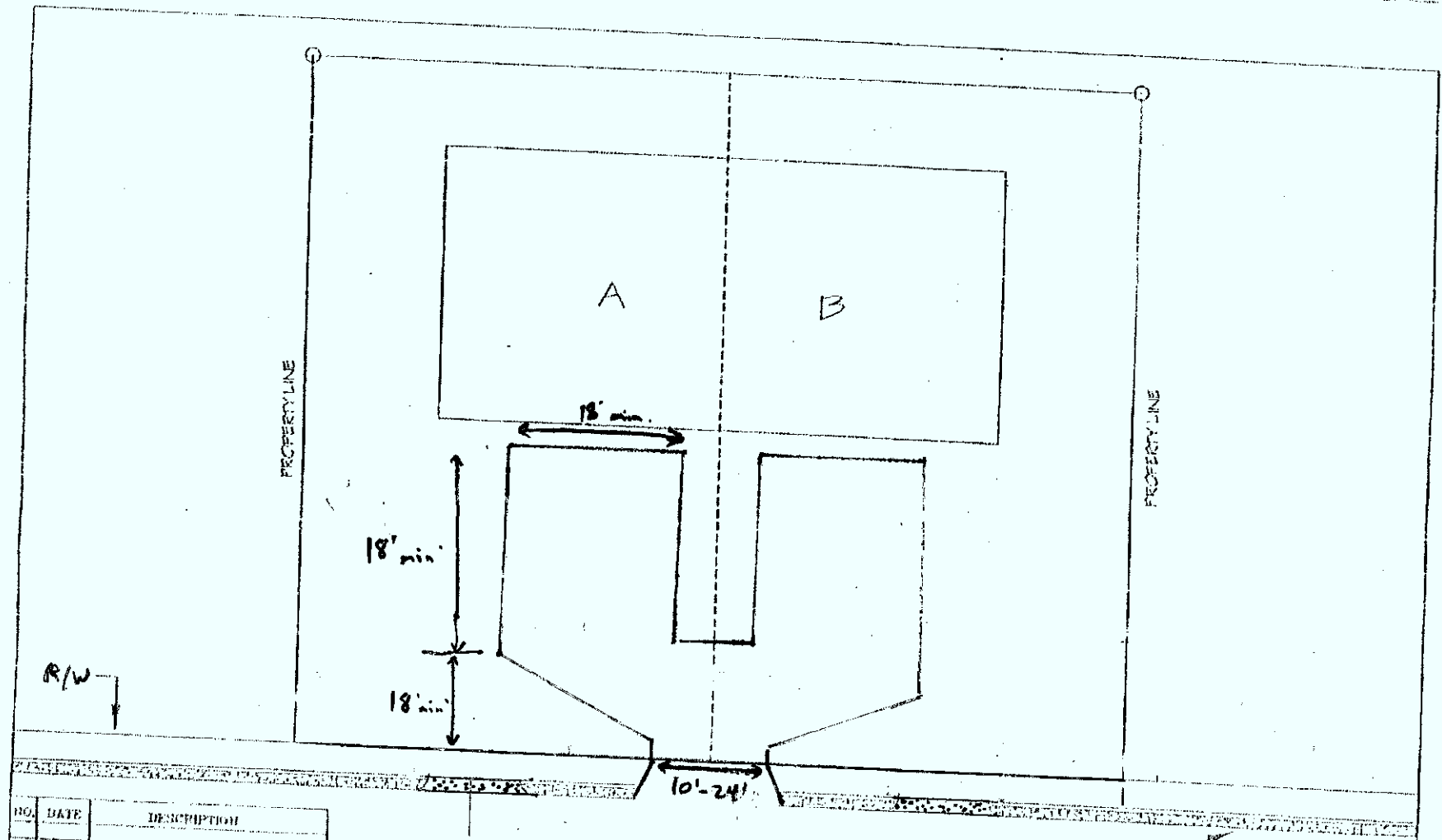


NTS

DUPLEX DRIVEWAY SPACING
CURB & GUTTER STREET

CITY OF GREENVILLE, N.C. ENGINEERING DIVISION

APPROVED DATE



NO.	DATE	DESCRIPTION

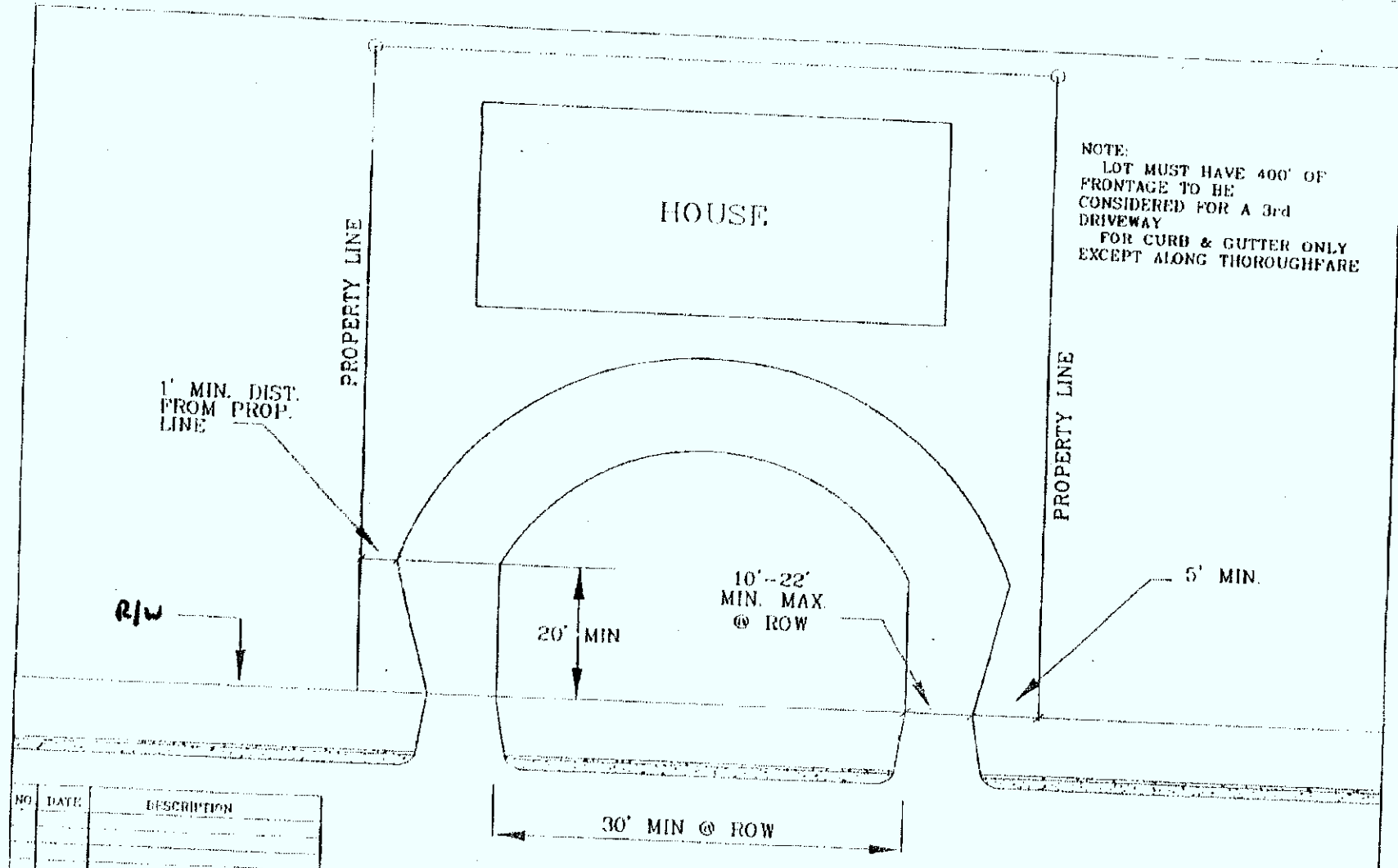
NTS

SHARED DUPLEX DRIVEWAY

CLIB & GLITTER STREET

APPROVED DATE: _____
 S/D: _____
 H/W: _____

CITY OF GREENVILLE, N.C. ENGINEERING DIVISION

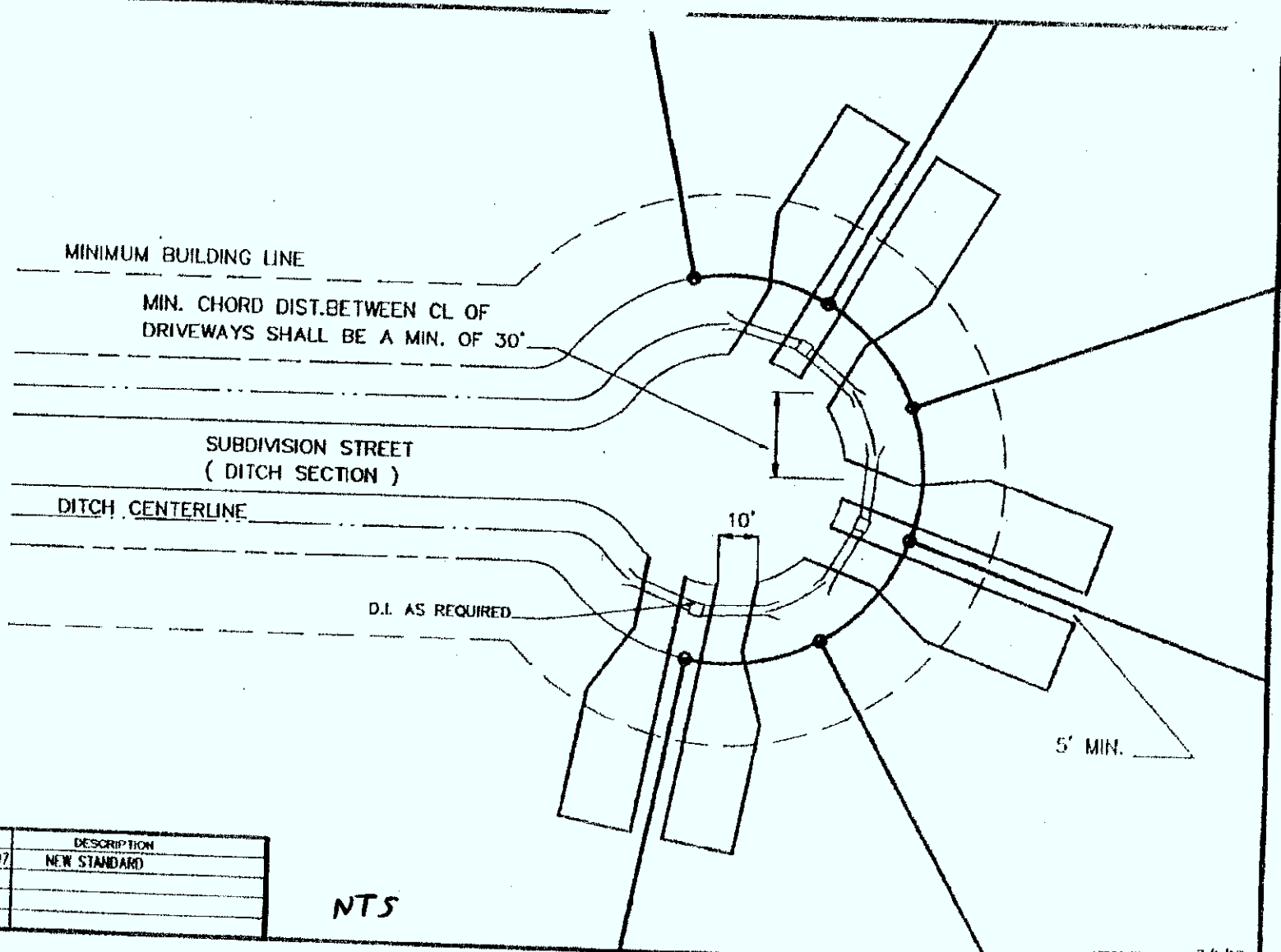


NO.	DATE	DESCRIPTION

NTS

APPROVED DATE	STD. NO.	REV.

CIRCULAR OR DUAL DRIVEWAYS
FOR SINGLE FAMILY
CITY OF GREENVILLE, N.C. ENGINEERING DIVISION



NO.	DATE	DESCRIPTION
	7/1/97	NEW STANDARD

NTS

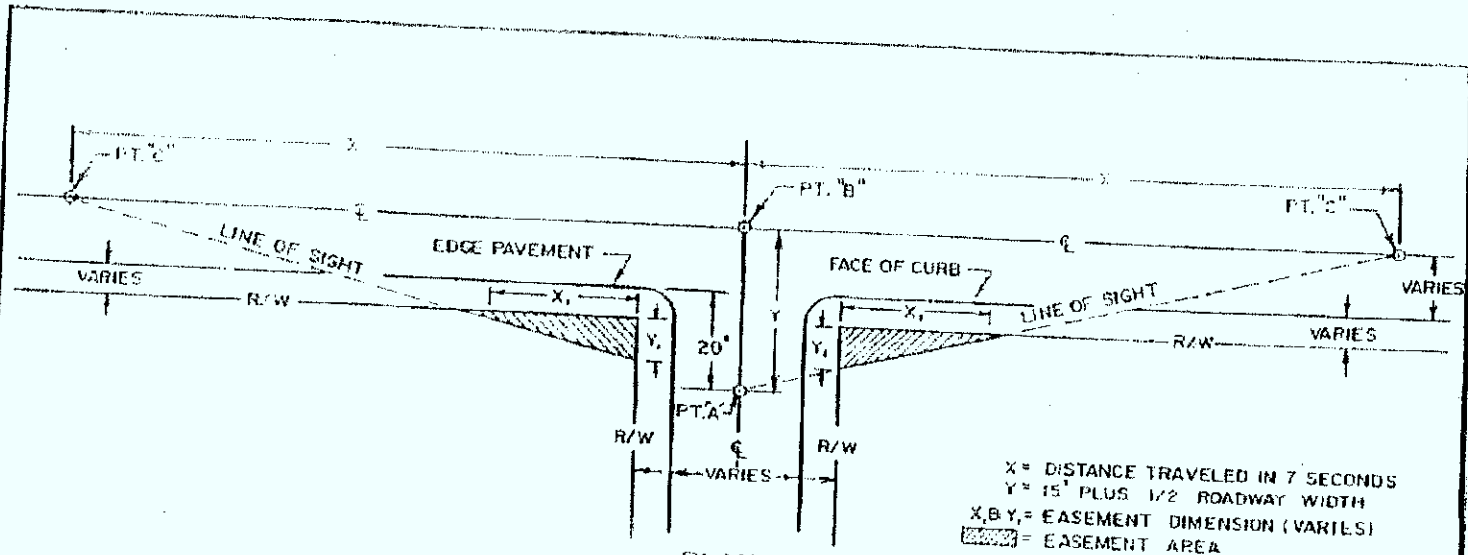
APPROVED DATE 7/1/97

DRIVEWAY SPACING DETAIL
 (NON C&G STREET)
 CUL-DE-SAC

CITY OF GREENVILLE, N. C. ENGINEERING DIVISION

HE \PROJ\MSDD\DWG\100DW

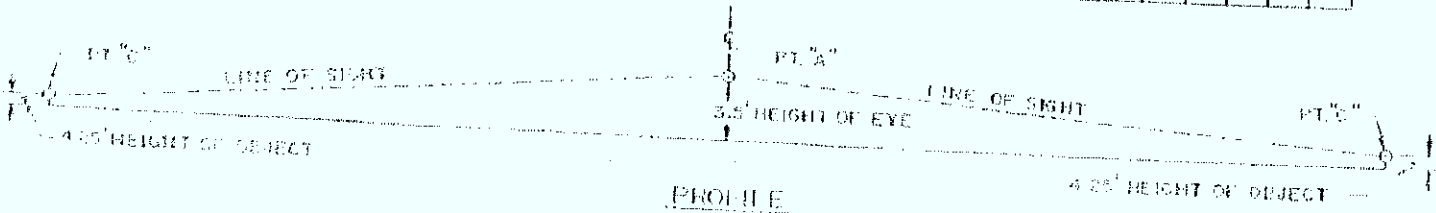
STR. NO.	REV.
50.11	



PLAN

X = DISTANCE TRAVELED IN 7 SECONDS
 Y = 15' PLUS 1/2 ROADWAY WIDTH
 X, Y, = EASEMENT DIMENSION (VARIES)
 [Hatched Area] = EASEMENT AREA

SPEED (MPH)	20	25	30	35	40	45
X DISTANCE (FT)	200	257	308	360	411	462



PROFILE

NOTE - WHEN THE GRADES OF THE INTERSECTION LESS ARE OTHER THAN FLAT, CORRECTIONS SHOULD BE MADE TO SIGHT DISTANCE REQUIREMENTS AS OUTLINED BY A.A.S. (E.C.)

NO SCALE

TITLE: TYPICAL SIGHT DISTANCE EASEMENT FOR AT-GRADE INTERSECTION OF TWO ROADS			REVISIONS	DET. NO.
NO.	DATE	BY		

MINIMUM BUILDING LINE

SUBDIVISION STREET

SEE NOTE 1

1.) MIN. 3' FOR ROLL CURB & GUTTER
MIN. 5' FOR STANDARD CURB & GUTTER

1' MIN.
20' BACK OF R/W

NO.	DATE	DESCRIPTION
	7/1/97	NEW STANDARD

NTS

APPROVED DATE 7/1/97

DRIVEWAY SPACING DETAIL
(C&G STREET)
CUL-DE-SAC

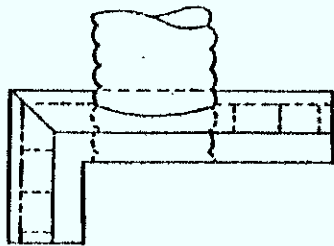
CITY OF GREENVILLE, N. C. ENGINEERING DIVISION

SHEET NO.	REV.
50.11	

FILE: \PROJ\MSDB\DWG\100DW

ENDWALLS

Item # 8



PLAN

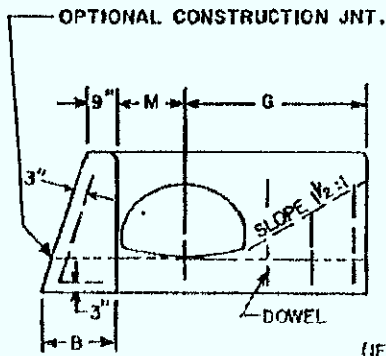
GENERAL NOTES:

ALL CORNERS TO BE CHAMFERED 1".
 THE CONTRACTOR WILL BE REQUIRED TO PLACE 2-#6 BARS "Y" IN THE TOP OF ALL ENDWALLS FOR PIPE CULVERTS 42" AND OVER WITH A MINIMUM 3" COVER AND A LENGTH 6" LESS THAN ENDWALL.

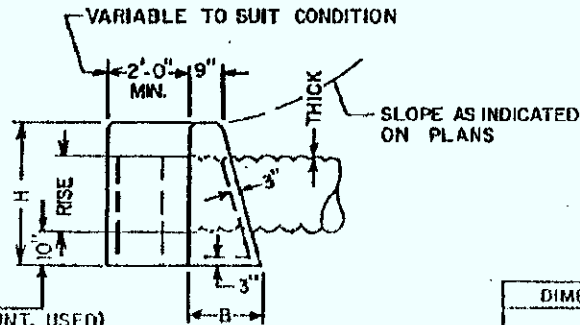
IF CONTRACTOR ELECTS TO USE CONSTRUCTION JOINT AT BOTTOM OF PIPE, BAR "X" (DOWELS) SHALL BE IN THE BASE AS SHOWN ON PLANS. SPACING TO BE APPROXIMATELY 12" CENTERS UNLESS ENGINEER DIRECTS OTHERWISE.

WHEN CONTRACTOR ELECTS TO USE CONSTRUCTION JOINT AT BOTTOM OF PIPE AND POURS BASE SEPARATELY, THE TOP OF THE BASE SHALL BE LEFT ROUGH.

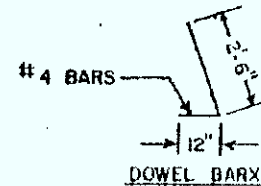
FORMS WILL BE USED IN CONSTRUCTION OF BOTTOM SLAB.
 CLASS "AA" CONCRETE SHALL BE USED.



ELEVATION



END ELEVATION



DOWEL BAR

FOOTING
 (IF CONST. JNT. USED)

QUANTITIES BASED ON 2'-0"

DIMENSIONS AND CONCRETE QUANTITIES

COMMON DIMENSIONS USING C.M. ARCH PIPE							TOTAL CONC.
SPAN	RISE	THICK	H	B	G	M	CU. YD.
18"	11"	.064	2'-7"	1'-4"	2'-5"	1'-0"	0.604
22"	13"	.064	2'-9"	1'-5"	2'-9"	1'-2"	0.712
25"	16"	.064	3'-0"	1'-6"	3'-3"	1'-4"	0.877
29"	18"	.079	3'-2"	1'-7"	3'-7"	1'-6"	1.015
36"	22"	.079	3'-6"	1'-9"	4'-3"	1'-9"	1.306
43"	27"	.079	3'-11"	2'-0"	5'-1"	2'-1"	1.796
50"	31"	.109	4'-3"	2'-2"	5'-9"	2'-4"	2.206
58"	36"	.109	4'-8"	2'-4"	6'-7"	2'-8"	2.794
65"	40"	.138	5'-0"	2'-6"	7'-4"	3'-0"	3.387
72"	44"	.138	5'-4"	2'-8"	8'-0"	3'-3"	3.995

REINFORCING QUANTITIES

SPAN	18"	22"	25"	29"	36"	43"	50"	65"	72"
BARS X	5	5	5	6	6	7	7	8	8
QTY.	5	5	5	6	6	7	7	8	8
LBS.	12	12	12	14	14	16	16	19	19

REVISIONS

NO.	DATE	DESCRIPTION

APPROVED: DATE May 6, 1930

STANDARD CONCRETE "L" ENDWALL FOR SINGLE PIPE CULVERTS
 18" THRU 72" ARCH PIPE
 CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

Item # 8

STD. NO.	REV.
30 01	

GENERAL NOTES:

ALL CORNERS TO BE CHAMFERED 1".

THE CONTRACTOR WILL BE REQUIRED TO PLACE 2-#6 BARS "Y" IN TOP OF ALL ENDWALLS FOR PIPE CULVERTS 42" AND OVER WITH A MIN. OF 3" COVER AND A LENGTH OF 6" LESS THAN ENDWALL.

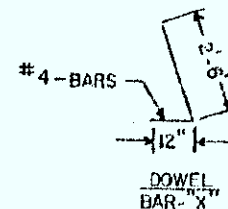
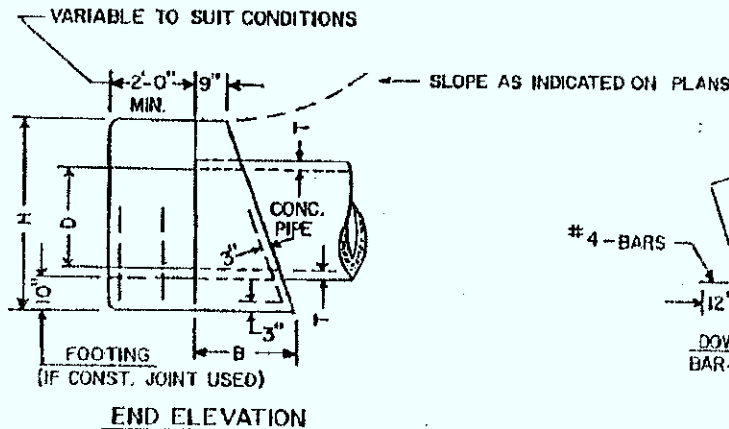
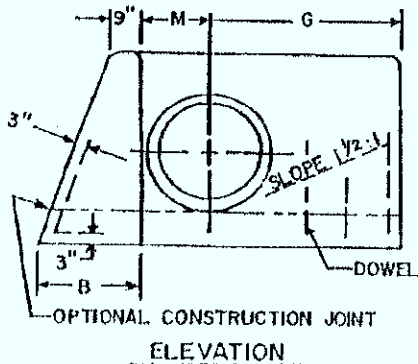
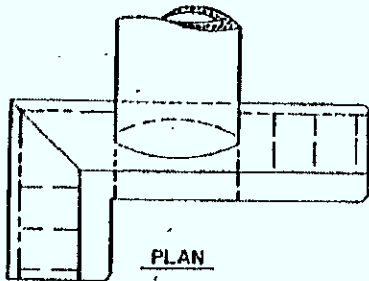
IF CONTRACTOR ELECTS TO USE CONSTRUCTION JOINT AT BOTTOM OF PIPE, BAR "X" (DOWELS) SHALL BE PLACED IN THE BASE AS SHOWN ON PLANS. SPACING OF BARS TO BE ON APPROXIMATELY 12" CENTERS UNLESS ENGINEER DIRECTS OTHERWISE.

IF THE CONTRACTOR ELECTS TO USE CONSTRUCTION JOINT AT BOTTOM OF PIPE AND POUR SLAB SEPARATELY, THE TOP OF BASE SHALL BE LEFT ROUGH.

FORMS ARE TO BE USED FOR THE CONSTRUCTION OF BASE SLAB.

WALL THICKNESS (T) SHOWN IS NOT TO BE INTERPRETED TO MEAN THE THICKNESS ACCEPTABLE, BUT ARE USED ONLY IN COMPUTATIONS OF ENDWALL QUANTITIES.

CLASS "AA" CONCRETE SHALL BE USED.



		REINFORCING QUANTITIES									
DIA.		15"	18"	24"	30"	36"	42" CM	42" RC	48" CM	48" RC	
BARS	X	X	X	X	X	X	Y	X	Y	X	Y
QTY.		5	5	6	6	7	7	2	7	2	8
LBS.		12	12	14	14	16	47	49	52	2	55

COMMON DIMENSIONS							COMMON DIMENSIONS					COMMON DIMENSIONS	
D	H	B	G	M	T	CU. YD.	H	B	G	M	CU. YD.		
15"	3'-4"	1'-8"	2'-9"	1'-0"	1 7/8"	0.960	3'-0"	1'-6"	2'-6"	0'-11"	0.770		
18"	3'-7"	1'-10"	3'-2"	1'-2"	2"	1.193	3'-3"	1'-8"	2'-11"	1'-0"	0.964		
24"	4'-2"	2'-1"	4'-0"	1'-5"	2 1/2"	1.711	3'-9"	1'-11"	3'-8"	1'-3"	1.385		
30"	4'-9"	2'-5"	4'-7"	1'-9"	2 3/4"	2.394	4'-3"	2'-2"	4'-5"	1'-6"	1.908		
36"	5'-3"	2'-8"	5'-6"	2'-0"	3"	3.169	4'-9"	2'-5"	5'-2"	1'-9"	2.544		
42"	5'-10"	2'-11"	6'-4"	2'-4"	3 1/2"	4.139	5'-3"	3'-3"	5'-11"	2'-0"	3.301		
48"	6'-5"	3'-3"	7'-2"	2'-8"	4"	5.422	5'-9"	2'-11"	6'-0"	2'-3"	4.193		

REVISIONS		
NO.	DATE	DESCRIPTION

APPROVED: DATE May 8, 1980

STANDARD CONCRETE "L" ENDWALL FOR SINGLE PIPE CULVERTS

15" THRU 48" PIPE

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

Item # 8

STD. NO.	REV.
30.02	

GENERAL NOTES:

All corners are to be chamfered 1".

The Contractor will be required to place 2-6 bars "Y" in the top of all endwalls for pipe culverts 42" and over with a minimum of 3" cover and a length of 6" less than endwall.

Forms are to be used for construction of bottom slab.

Wall thickness (T) shown is not to be interpreted to mean the thickness acceptable, but is used only in computing endwall quantities.

If contractor elects to use construction joint at bottom of pipe and pours base separately, the top of the base shall be left rough.

When contractor elects to use construction joint at bottom of pipe, bar "X" (dowels) shall be placed in the base as shown on plans, spacing of bars to be approximately 12" centers unless engineers direct otherwise.

When skew angle of pipe is over 45°, use G-1 dimension for 45° plus 6" for each 5° over 45°, G2 dimension will be the new dimension divided by the cosine of the angle of pipe skew.

Class "AA" concrete shall be used.

All pipes will meet NCDOT-Division of Highways specifications for load bearing capacities.

REVISIONS

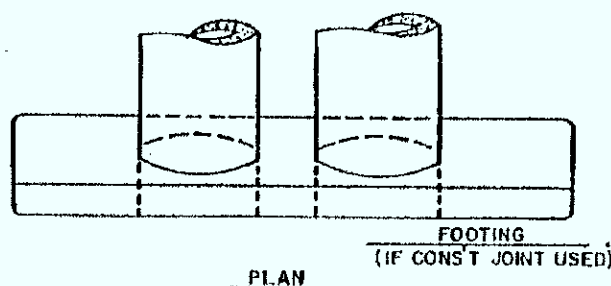
NO.	DATE	DESCRIPTION

APPROVED: DATE May 8, 1980

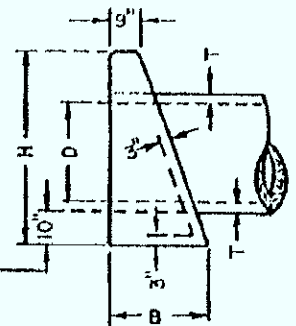
CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

Item # 8

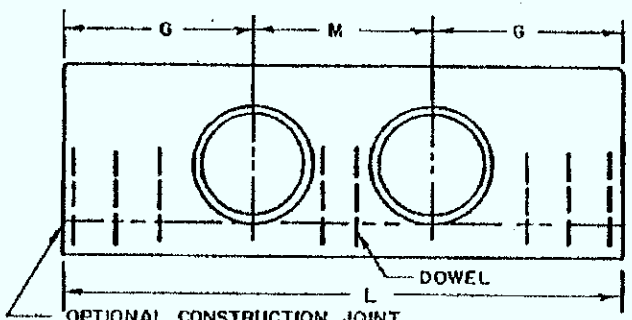
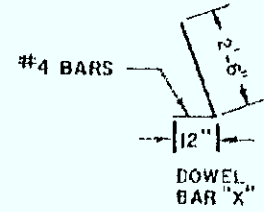
STD. NO.	REV.
30.03	



PLAN



END ELEVATION



ELEVATION

L	PIPE DIA.	SINGLE PIPE						DOUBLE PIPE										
		15"	18"	24"	30"	36"	42"	48"	15"	18"	24"	30"	36"	42"	48"			
C.	BARS	x	x	x	x	x	y	x	y	x	x	x	x	x	y	x	y	
G	QTY.	2	2	3	3	4	4	5		2	2	3	3	4	4	5		
M	QTY.	-	-	-	-	-	2	-	2	1	1	2	2	2	2	2	3	2
G	QTY.	2	2	3	3	4	4	5		2	2	3	3	4	4	5		
TOT.	LBS.	9	9	14	14	19	65	65		12	12	19	19	23	77	92		

SEE NOTE

L	PIPE DIA.	SINGLE PIPE						DOUBLE PIPE									
		15"	18"	24"	30"	36"	42"	48"	15"	18"	24"	30"	36"	42"	48"		
C.	BARS	x	x	x	x	x	y	x	y	x	x	x	x	x	y	x	y
G	QTY.	2	2	3	3	4	4	5		2	2	3	3	4	4	5	
M	QTY.	-	-	-	-	-	2	-	2	1	1	1	2	2	2	2	2
G	QTY.	2	2	3	3	4	4	5		2	2	3	3	4	4	5	
TOT.	LBS.	9	9	14	14	19	53	62		12	12	16	19	23	73	85	

SEE NOTES

DIMENSIONS AND CONCRETE QUANTITIES																	
D	COMMON DIMS.					CONCRETE PIPE				CORRUGATED METAL PIPE							
	H	B	G	T	L	CU.YD.	M	L	CU.YD.	H	B	G	L	CU.YD.	M	L	CU.YD.
15"	3'-4"	1'-8"	2'-9"	1 7/8"	5'-6"	0.734	2'-2"	7'-8"	0.970	3'-0"	1'-6"	2'-6"	5'-0"	0.573	1'-11"	6'-11"	0.780
18"	3'-7"	1'-10"	3'-2"	2"	6'-4"	0.958	2'-7"	8'-11"	1.274	3'-3"	1'-8"	2'-11"	5'-10"	0.767	2'-3"	8'-1"	1.014
24"	4'-2"	2'-1"	4'-0"	2 1/2"	8'-0"	1.506	3'-5"	11'-5"	2.010	3'-9"	1'-11"	3'-8"	7'-4"	1.200	3'-0"	10'-4"	1.597
30"	4'-9"	2'-5"	4'-7"	2 3/4"	9'-2"	2.145	4'-3"	13'-5"	2.920	4'-3"	2'-2"	4'-5"	8'-10"	1.757	3'-9"	12'-7"	2.340
36"	5'-3"	2'-8"	5'-6"	3"	11'-0"	3.040	5'-0"	16'-0"	4.086	4'-9"	2'-5"	5'-2"	10'-4"	2.456	4'-6"	14'-10"	3.288
42"	5'-10"	2'-11"	6'-4"	3 1/2"	12'-8"	4.120	5'-10"	18'-6"	5.534	5'-3"	2'-8"	5'-11"	11'-10"	3.310	5'-3"	17'-1"	4.434
48"	6'-5"	3'-3"	7'-2"	4"	14'-4"	5.535	6'-6"	21'-0"	7.427	5'-9"	2'-11"	6'-8"	13'-4"	4.337	6'-0"	19'-4"	5.812

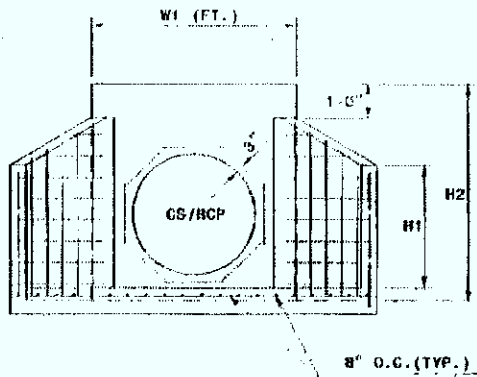
REVISIONS		
NO.	DATE	DESCRIPTION

APPROVED: DATE May 8, 1980

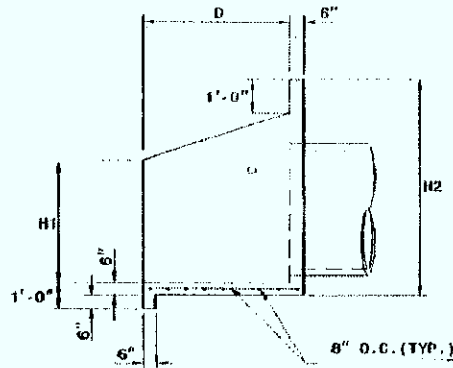
STANDARD CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS
 15" THRU 48" PIPE - 90° SKEW
 CITY OF GREENVILLE, N.C. - ENGINEERING DEPT.

STD. NO.	REV.
30.04	

Item # 8



ELEVATION



SIDE

NOTES:

- * USE 4000 PSI CONCRETE.
- * PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FABRIC CONFORMING TO ASTM A105 WITH 2" MIN. CLEARANCE.
- * PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
- * PIPE TO BE GROUTED INTO HEADWALL AT JOB SITE BY CONTRACTOR
- * ALL ELEMENTS PRECAST TO MEET ASTM C913.
- * WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED.
- * CHAMFER ALL CORNERS 1" OR HAVE A RADIUS OF 1".

NOTE: THE MINIMUM BAR SIZE SHALL BE #5 BARS AT 8" CTS. THE CONTRACTOR WILL HAVE THE OPTION TO INCREASE THIS BAR SIZE AS NEEDED.



PLAN

ENDWALL DIMENSIONS

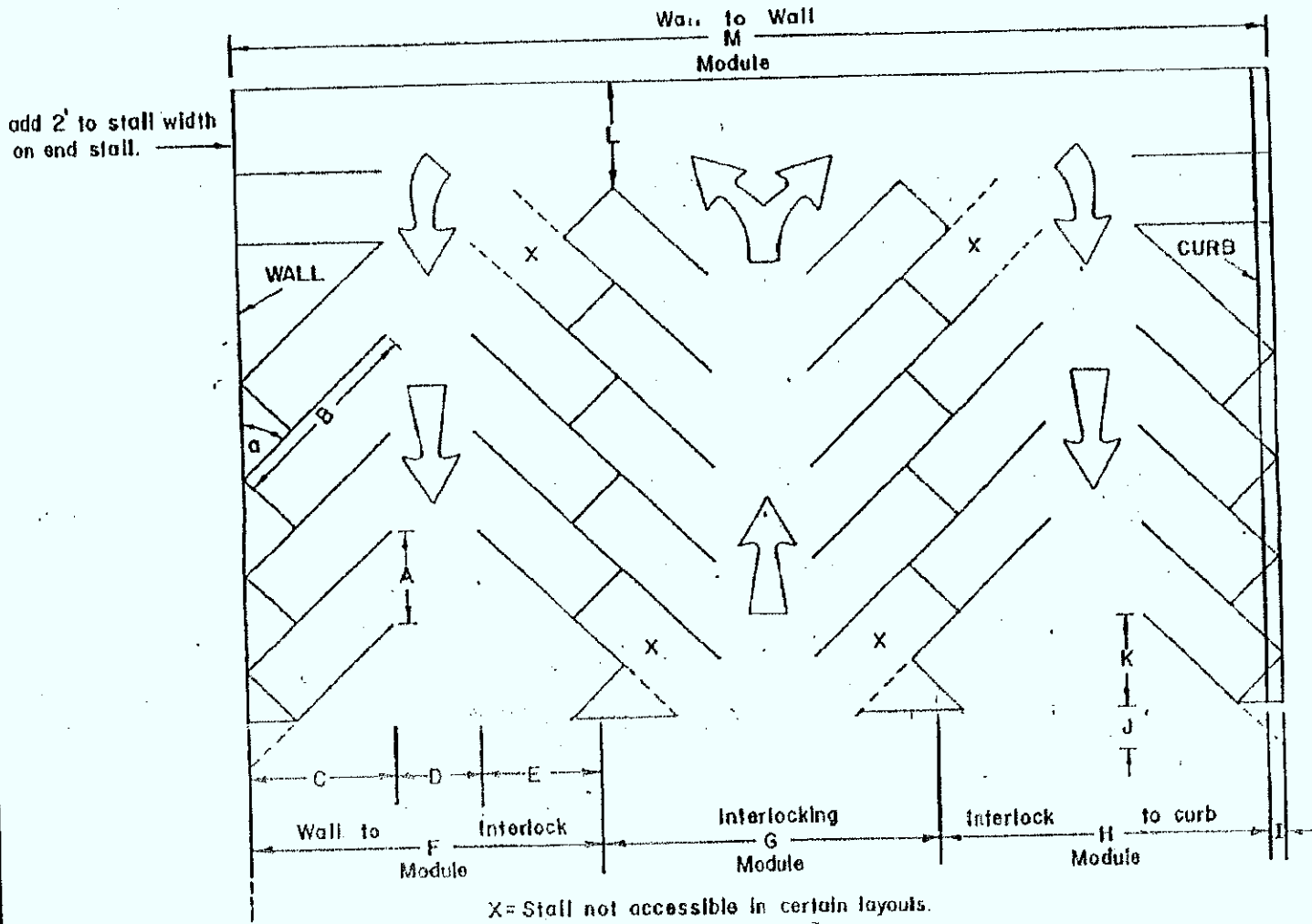
FT.	MINIMUM	NIN. /MAX.	MIN. /MAX.	NIN. /MAX.	MIN. /MAX.	NIN. /MAX.
PIPE DIA.	BAR SIZE	H1 (FT.)	H2 (FT.)	D (FT.)	W1	W2
1.0	#5 @ 8"	1.25/2.00	2.00/3.75	1.25/1.75	3.00/3.75	5.50/6.00
1.25	#5 @ 8"	1.25/2.00	3.00/3.75	1.25/2.00	3.50/3.75	6.50/6.75
1.50	#5 @ 8"	1.25/2.00	3.00/4.25	1.50/2.50	3.50/3.75	6.50/6.75
2.0	#5 @ 8"	1.50/2.50	4.00/4.75	1.75/2.50	4.00/4.25	7.50/8.25
2.5	#5 @ 8"	2.50/3.50	4.00/6.00	2.00/3.00	4.50/5.50	10.00/11.50
3.0	#5 @ 8"	3.00/3.50	5.00/6.00	2.75/3.50	5.25/5.75	11.50/11.75
3.5	#5 @ 8"	3.25/4.50	6.00/6.75	3.25/3.50	6.00/6.75	12.00/13.25
4.0	#5 @ 8"	3.50/4.50	6.50/7.00	3.25/3.50	6.50/6.75	13.00/13.25
4.5	#5 @ 8"	4.00/5.00	6.50/8.50	3.25/4.00	7.00/9.25	13.50/15.75
5.0	#5 @ 8"	4.50/5.00	7.00/8.50	3.25/4.00	7.25/9.25	13.75/15.75
5.5	#5 @ 8"	4.50/5.00	7.50/8.50	3.25/4.00	7.25/9.25	14.00/15.75
6.0	#5 @ 8"	4.50/5.00	7.50/8.50	3.25/4.00	7.75/9.25	14.75/16.75

PRECAST CONCRETE ENDWALL
 FOR SINGLE 12" THRU 72" PIPE - 90° SKEW

PRECAST CONCRETE ENDWALL
 FOR SINGLE 12" THRU 72" PIPE - 90° SKEW

PARKING

Item # 8



REVISIONS

NO.	DATE	DESCRIPTION

APPROVED: DATE May 8, 19

PARKING STANDARDS

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

Item # 8

STD. NO.	REV.
55 01	

ANGLE

45°

60°

75°

90°

Stall width, parallel to aisle	A	10.6	12.0	12.7	13.4	8.7	9.8	10.4	10.9	7.8	8.8	9.3	9.8	7.5	8.5	9.0	9.5
Stall length of line	B	24.0	25.0	25.0	25.0	20.4	22.0	22.0	22.0	17.9	20.0	20.0	20.0	16.0	18.5	18.5	18.5
Stall depth of line	C	17.0	17.7	17.7	17.7	17.7	19.0	19.0	19.0	17.2	19.3	19.3	19.3	16.0	18.5	18.5	18.5
Aisle width between stall lines	D	11.0	13.0	12.0	11.0	14.0	18.0	16.0	15.0	17.4	25.0	23.0	22.0	20.0	28.0	26.0	25.0
Stall depth, interlock	E	14.3	14.7	14.5	14.3	15.8	16.9	16.8	16.6	16.2	18.2	18.1	18.1	16.0	18.5	18.5	18.5
Module, wall to interlock	F	42.3	45.4	44.2	43.0	47.5	53.9	51.8	50.6	50.8	60.9	60.4	59.4	52.0	65.0	63.0	62.0
Module, interlocking	G	39.6	42.4	41.0	39.6	45.6	51.8	49.6	48.2	49.2	61.4	59.2	58.2	52.0	65.0	63.0	62.0
Module, interlock to curb face	H	40.3	43.4	42.2	41.0	45.2	51.6	49.5	48.3	48.3	58.4	57.9	56.9	49.5	62.5	60.5	59.5
Bumper overhang (typical)	I	2.0	2.0	2.0	2.0	2.3	2.3	2.3	2.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Offset	J	5.3	6.0	6.4	6.7	1.9	2.1	2.3	2.4	0.5	0.6	0.6	0.6	0.0	0.0	0.0	0.0
Setback	K	11.7	11.7	11.3	11.0	8.2	9.0	8.8	8.7	4.5	4.6	4.6	4.6	0.0	0.0	0.0	0.0
Cross aisle, one way	L ₁	13	14	14	14	13	14	14	14	13	14	14	14	13	14	14	14
Cross aisle, two way	L ₂	22	24	24	24	22	24	24	24	22	24	24	24	22	24	24	24
Module, wall to wall	M	45.0	48.4	47.4	46.4	49.4	56.0	54.0	53.0	51.8	63.6	61.6	60.6	52.0	65.0	63.0	62.0

STALL WIDTH	7.5' Compacts Only	8.5'	9.0'	9.5'	7.5' Compacts Only	8.5'	9.0'	9.5'	7.5' Compacts Only	8.5'	9.0'	9.5'	7.5' Compacts Only	8.5'	9.0'	9.5'
-------------	--------------------	------	------	------	--------------------	------	------	------	--------------------	------	------	------	--------------------	------	------	------

REVISIONS

NO.	DATE	DESCRIPTION

APPROVED: DATE May 8, 1980

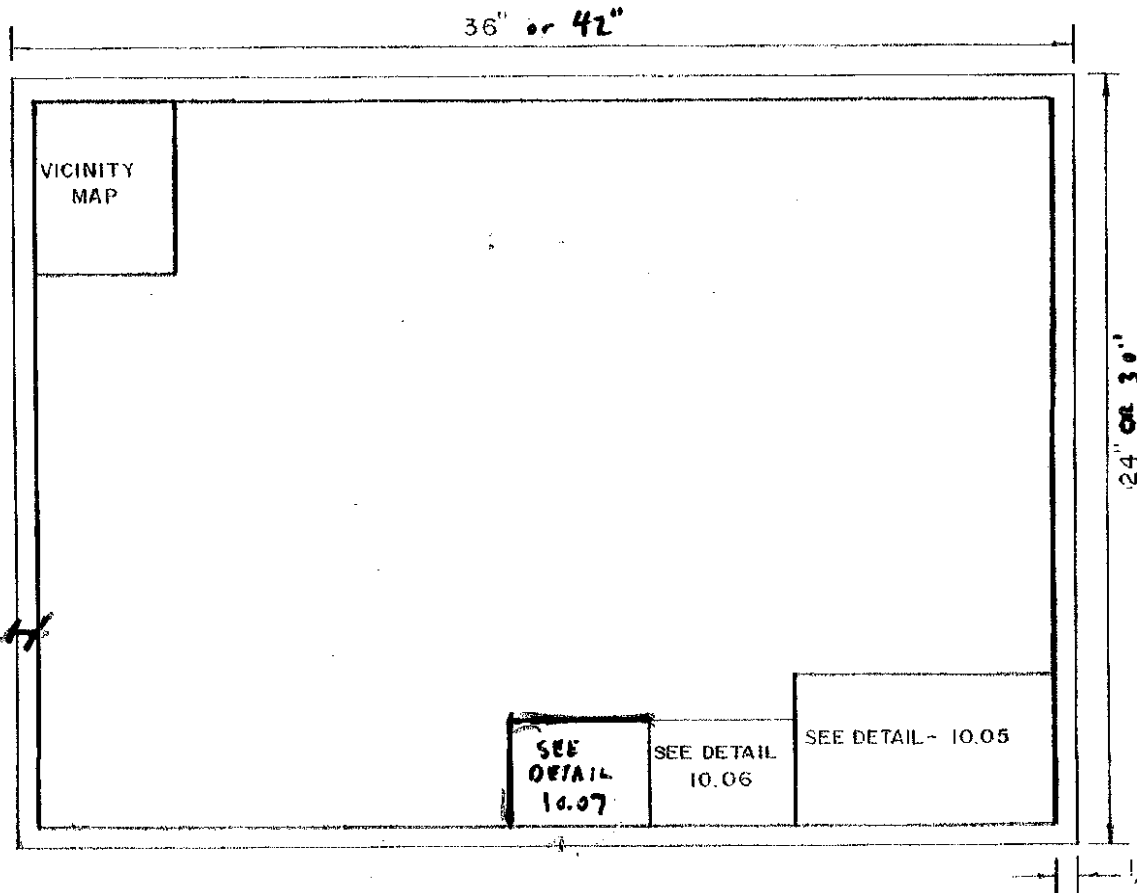
MINIMUM PARKING STANDARDS

CITY OF GREENVILLE, N.C.—ENGINEERING DEPT.

Item # 8

STD. NO.	REV.
5502	

PLAT PREPARATION STANDARD SIZES AND CERTIFICATIONS



REVISIONS

NO.	DATE	DESCRIPTION

APPROVED: DATE May 8, 1980

STANDARD PRELIMINARY PLAT LAYOUT
 CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

STD. NO.	REV.
10.04	

Item # 8

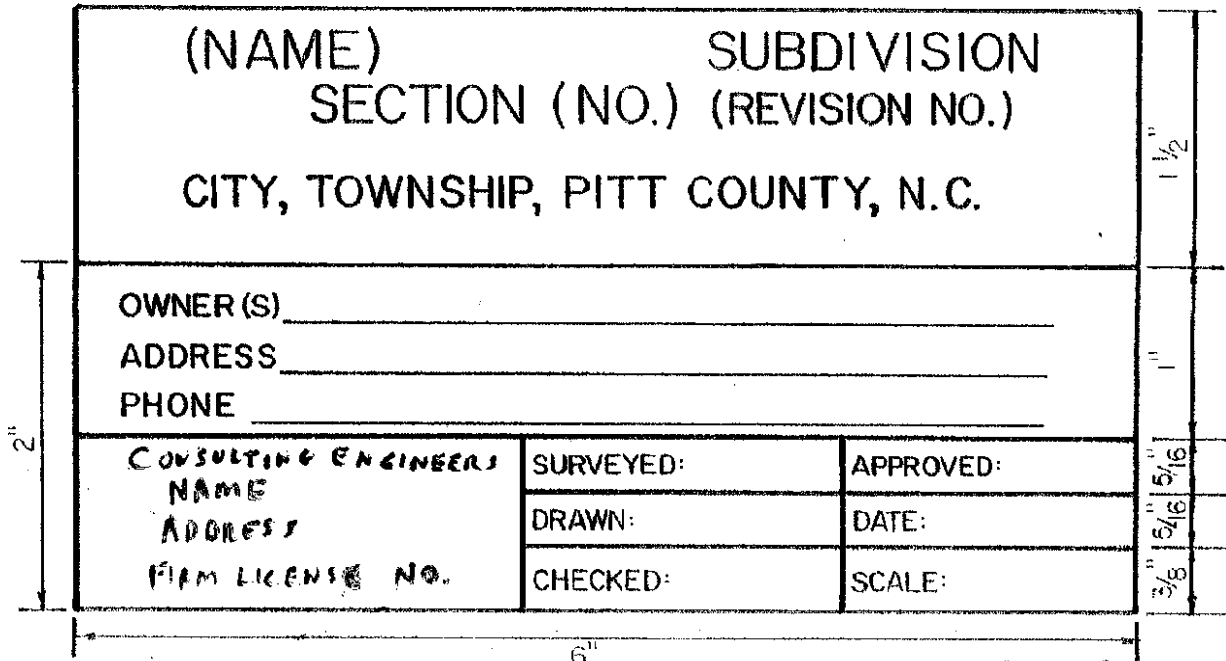
(NAME) SUBDIVISION
 SECTION (NO.) (REVISION NO.)
 CITY, TOWNSHIP, PITT COUNTY, N.C.

OWNER(S) _____
 ADDRESS _____
 PHONE _____

CONSULTING ENGINEERS
 NAME
 ADDRESS
 FIRM LICENSE NO.

SURVEYED:
 DRAWN:
 CHECKED:

APPROVED:
 DATE:
 SCALE:



REVISIONS

NO.	DATE	DESCRIPTION

APPROVED: DATE May 8, 1980

STANDARD TITLE BLOCK FOR PRELIMINARY
 CITY OF GREENVILLE, N.C.—ENGINEERING DEPT.

Item # 8

STD. NO.	REV.
10.05	

3/4"

APPROVAL

THIS PRELIMINARY PLAT # _____, AND THE
STREET NAME(S) HEREON WERE
APPROVED BY THE GREENVILLE PLANNING
AND ZONING COMMISSION AT A MEETING
HELD THE _____ DAY OF _____
19____.

SIGNED _____ CHAIRMAN

SIGNED _____ CITY PLANNER

2 1/2"

REVISIONS

NO.	DATE	DESCRIPTION
A	11-16-83	ENGINEER TO PLANNER

APPROVED: DATE May 8, 1980

STANDARD "APPROVALS" INFORMATION BLOCK

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

Item # 8

STD. NO.	REV
10.06	A

COMMENTS:

THE SURVEYOR'S CERTIFICATION SHALL BE SUBSTANTIALLY IN THE FORM SHOWN FOR SURVEYS MADE BY TRADITIONAL SURVEY METHODS. FOR SURVEYS PERFORMED USING BOTH TRADITIONAL AND GPS SURVEYING METHODS USE MSDD STANDARD 10.21.2 THE SURVEYOR SHOULD REFER TO AND COMPLY WITH THE CURRENT NCBELS RULES 21 NCAC 56 .1600, "STANDARDS OF PRACTICE OF LAND SURVEYING IN NORTH CAROLINA", AND G.S. 47-30 FOR ANY RULE AMENDMENTS. www.ncbels.org

REQUIRED MINIMUM ACCURACY STANDARDS: (21 NCAC 56 .1603 & .1605)

HORIZONTAL: "URBAN LAND SURVEYS", CLASS "A" (1:10,000+)

VERTICAL: "URBAN AND SUBURBAN VERTICAL CONTROL SURVEYS", CLASS "A"

(Error not to exceed 0.10 times the square root of the numbers of miles run from reference station)

SURVEYOR'S CERTIFICATION

I, _____, CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AND ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOK _____, PAGE _____, OR FROM BOOKS REFERENCED HEREON); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN BOOK _____, PAGE _____, OR AS REFERENCED HEREON; THAT THE RATIO OF PRECISION AS CALCULATED IS 1: _____; THAT THIS TOPOGRAPHIC SURVEY WAS PERFORMED TO MEET FEDERAL GEOGRAPHIC DATA COMMITTED STANDARDS AS APPLICABLE; THAT THE TOPOGRAPHIC DATA WAS OBTAINED ON _____ (insert dates); THAT THE SURVEY WAS COMPLETED ON _____ (insert date); THAT THE CONTOURS SHOWN AS BROKEN LINES MAY NOT MEET THE STATED STANDARD; THAT VERTICAL CONTROL WAS ESTABLISHED AT THE SITE TO THE CLASS "A" STANDARD; AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE "STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA" (21 NCAC 56.1600).

WITNESS MY ORIGINAL SIGNATURE AND SEAL THIS THE _____ DAY OF _____, 20 ____.

SIGNED _____
PROFESSIONAL LAND SURVEYOR No. 1. #####

2 1/2"

5 1/2"

NO.	DATE	DESCRIPTION
A	05/06/09	NEW CERTIFICATION REQUIRED PER NCBELS RULES

APPROVED: PENDING

PRELIMINARY PLAT SURVEYOR'S CERTIFICATION USING TRADITIONAL ONLY SURVEY METHODS

CITY OF GREENVILLE, N.C.-ENGINEERING DEPT.

STD. NO.	REV.
10.07.1	A

COMMENTS:

THE SURVEYOR'S CERTIFICATION SHALL BE SUBSTANTIALLY IN THE FORM SHOWN FOR SURVEYS MADE BY BOTH TRADITIONAL AND GPS SURVEY METHODS. FOR TRADITIONAL ONLY SURVEYS USE MSDD STANDARD 10.16.1. THE SURVEYOR SHOULD REFER TO AND COMPLY WITH THE CURRENT NCBELS RULES 21 NCAC 56 .1600, "STANDARDS OF PRACTICE OF LAND SURVEYING IN NORTH CAROLINA", AND G.S. 47-30 FOR ANY RULE AMENDMENTS. www.ncbels.org

REQUIRED MINIMUM ACCURACY STANDARDS: (21 NCAC 56 .1603 & .1605)

HORIZONTAL: "URBAN LAND SURVEYS", CLASS "A" (1:10,000+), GPS (0.07 feet +/- 50PPM or less)

VERTICAL: "URBAN AND SUBURBAN VERTICAL CONTROL SURVEYS", CLASS "A" (Error not to exceed 0.10 times the square root of the numbers of miles run from reference station)

REFERENCE INFORMATION REQUIRED FOR GPS SURVEYS IN THE CERTIFICATION. (REF. NCBELS BOARD RULE 21 NCAC 56 .1607)

- (1) POSITIONAL ACCURACY: _____ (0.07 feet +/- 50PPM or less)
- (2) TYPE OF GPS FIELD PROCEDURE: _____
- (3) DATE (S) OF SURVEY: _____
- (4) DATUM / EPOCH: _____
- (5) PUBLISHED/FIXED-CONTROL STATIONS USED: _____
- (6) GEOID MODEL USED: _____
- (7) COMBINED GRID FACTOR(S): _____
- (8) UNITS: US SURVEY FOOT

(STATIC, REAL-TIME KINEMATIC, REAL-TIME KINEMATIC NETWORK, ONLINE POSITION USER SERVICE)

(HORIZONTAL (NAD83/86, NAD83(NSRS2007), etc., VERTICAL (NAVD88))

INCLUDE: STATION NAMES, HORIZONTAL POSITION (NORTHING AND EASTING), ELEVATION, DATUM AND EPOCH)
(GEOID03, GEOID06, GEOID09, etc.)

SURVEYOR'S CERTIFICATION

I, _____, CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOK _____, PAGE _____, OR FROM BOOKS REFERENCED HEREON); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN BOOK _____, PAGE _____, OR AS REFERENCED HEREON; THAT THE RATIO OF PRECISION AS CALCULATED IS 1: _____ THAT THIS TOPOGRAPHIC SURVEY WAS PERFORMED TO MEET FEDERAL GEOGRAPHIC DATA COMMITTED STANDARDS AS APPLICABLE; THAT THE TOPOGRAPHIC DATA WAS OBTAINED ON _____ (insert dates); THAT THE SURVEY WAS COMPLETED ON _____ (insert date); THAT THE CONTOURS SHOWN AS BROKEN LINES MAY NOT MEET THE STATED STANDARD; THAT VERTICAL CONTROL WAS ESTABLISHED AT THE SITE TO THE CLASS "A" STANDARD THAT A GLOBAL POSITIONING SYSTEM (GPS) SURVEY WAS PERFORMED TO ESTABLISH THE HORIZONTAL AND VERTICAL CONTROL FOR THE PROJECT; THAT THE (GPS) OBSERVATIONS WERE PERFORMED TO THE GEOSPATIAL POSITIONING ACCURACY STANDARDS, PART 2: STANDARDS FOR GEODETIC NETWORKS AT THE CLASS "A" ACCURACY CLASSIFICATION (95% CONFIDENCE) AND THE FOLLOWING INFORMATION WAS USING TO PERFORM THE GPS SURVEY:

POSITIONAL ACCURACY: _____ TYPE OF GPS FIELD PROCEDURE: _____ DATE(S) OF SURVEY: _____
 DATUM / EPOCH: _____ GEOID MODEL: _____ UNITS: _____
 PUBLISHED/FIXED-CONTROL MONUMENTS USED: _____

AND THAT THIS MAP MEETS THE REQUIREMENTS OF "THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA" (21 NCAC 56 .1600).

WITNESS MY ORIGINAL SIGNATURE AND SEAL THIS THE _____ DAY OF _____, 20 _____

SIGNED _____
 PROFESSIONAL LAND SURVEYOR No. L-0000

2 1/2"

9 1/4"

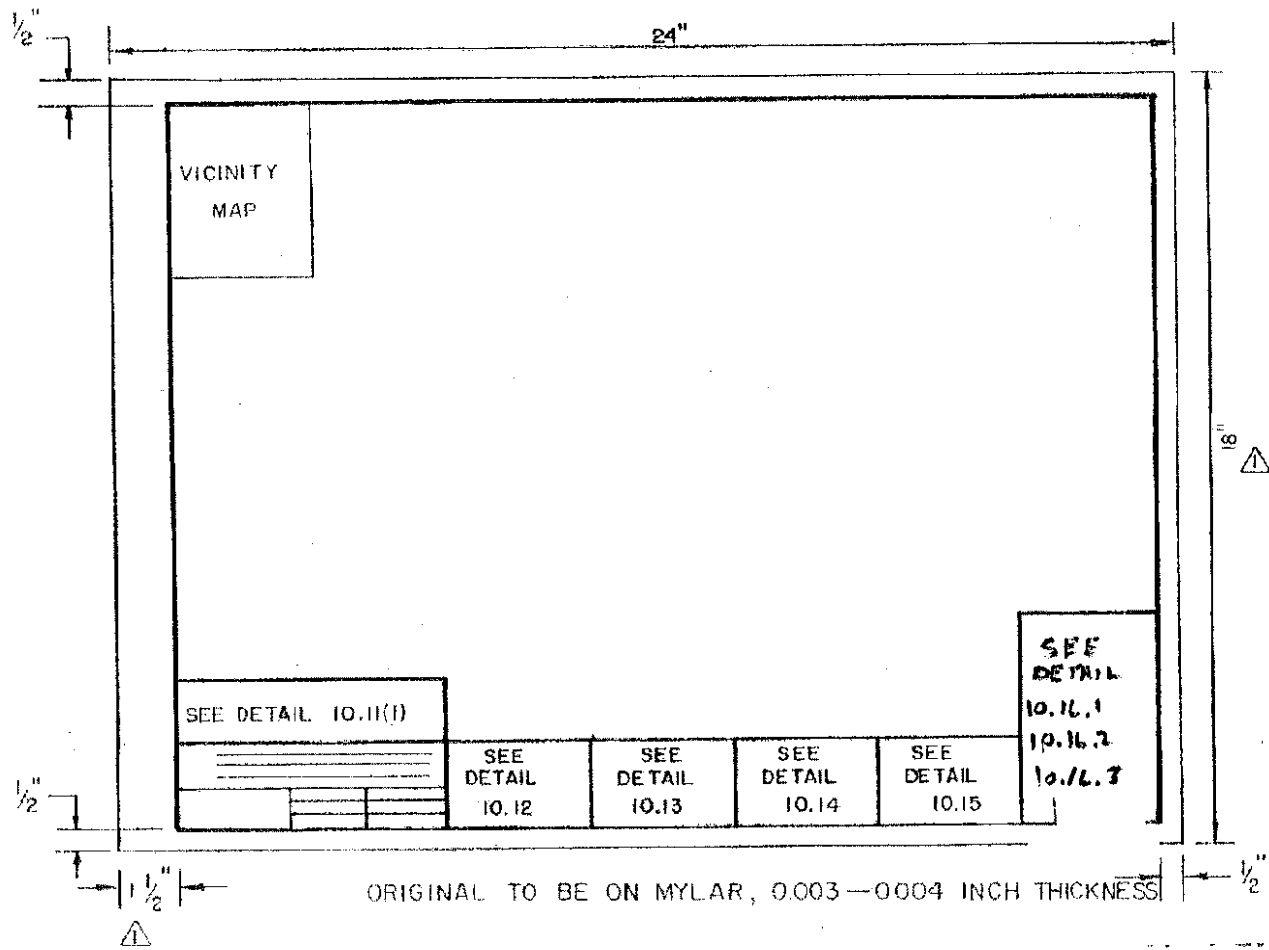
NO.	DATE	DESCRIPTION
A	05/05/08	NEW CERTIFICATION REQUIRED PER NCBELS RULES

APPROVED: PENDING

PRELIMINARY PLAT SURVEYOR'S CERTIFICATION USING TRADITIONAL AND GPS SURVEY METHODS

CITY OF GREENVILLE, N.C.-ENGINEERING DEPT.

STD. NO.	REV.
10.07.2	A



ORIGINAL TO BE ON MYLAR, 0.003—0.004 INCH THICKNESS

RESERVE AREA FOR REGISTER OF NEEDS STICKER

REVISIONS

NO.	DATE	DESCRIPTION
△	9/91	DIM. CHANGE

APPROVED: DATE MAY 8, 1980

STANDARD FINAL PLAT LAYOUT

CITY OF GREENVILLE, N.C.—ENGINEERING DEPT.

Item # 8

STD. NO.	REV.
10.10	1

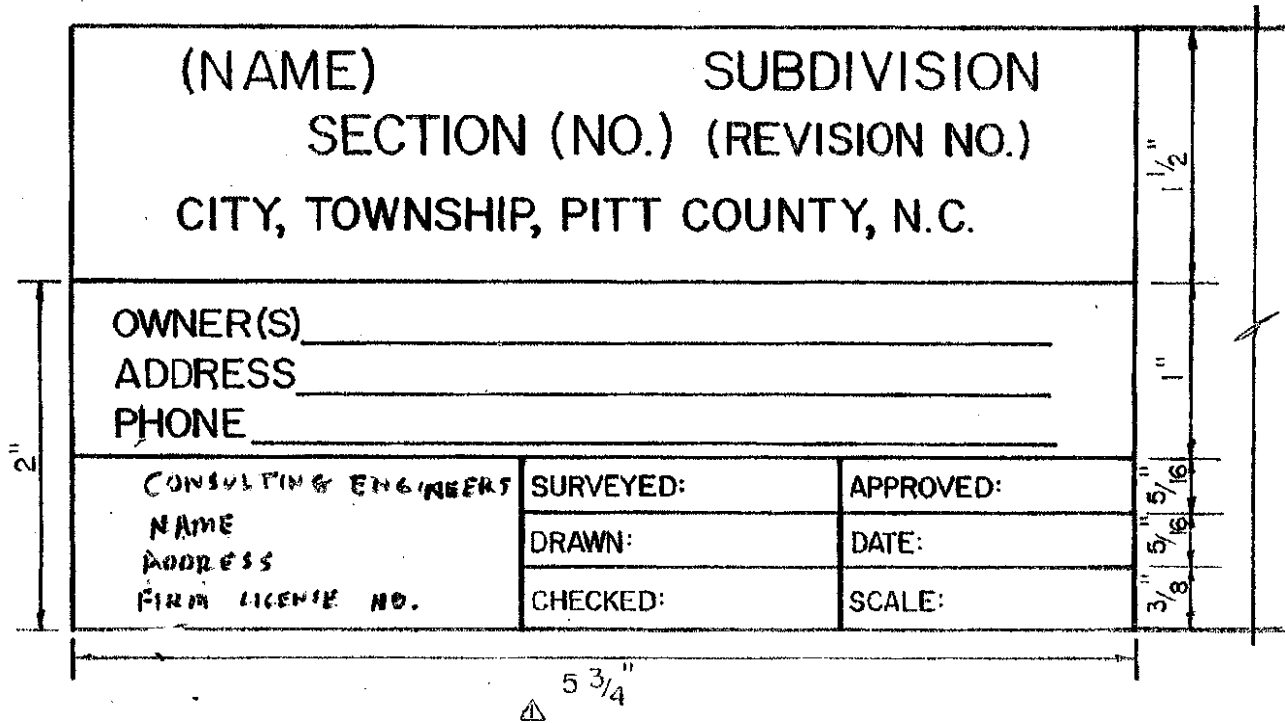
(NAME) SUBDIVISION
 SECTION (NO.) (REVISION NO.)
 CITY, TOWNSHIP, PITT COUNTY, N.C.

OWNER(S) _____
 ADDRESS _____
 PHONE _____

CONSULTING ENGINEERS
 NAME
 ADDRESS
 FIRM LICENSE NO.

SURVEYED:
 DRAWN:
 CHECKED:

APPROVED:
 DATE:
 SCALE:



REVISIONS

NO.	DATE	DESCRIPTION
Δ	9/91	DIM. CHANGE

APPROVED: DATE May 8, 1980

STANDARD TITLE BLOCK FOR FINAL PLATS
 CITY OF GREENVILLE, N.C.—ENGINEERING DEPT.

Item # 8

STD. NO.	REV.
1011	1

3 1/4"

SOURCE OF TITLE

THIS IS TO CERTIFY THAT THE LAST INSTRUMENT(S) IN THE CHAIN OF TITLE(S) OF THIS PROPERTY AS RECORDED IN THE PITT COUNTY REGISTRY AT GREENVILLE, NORTH CAROLINA IS:

DEED BOOK _____ PAGE _____

DEED BOOK _____ PAGE _____

DEED BOOK _____ PAGE _____

N.C. Lit. NO. _____

2"

REVISIONS

NO.	DATE	DESCRIPTION

APPROVED: DATE May 8, 1980

STANDARD "SOURCE OF TITLE" INFORMATION BLOCK
CITY OF GREENVILLE, N.C.—ENGINEERING DEPT.
 Item # 8

STD. NO.	REV.
10.12	1

3 1/4"

OWNERS STATEMENT

THIS IS EVIDENCE THAT THIS SUB-DIVISION IS MADE AT THE REQUEST OF

SWORN AND SUBSCRIBED TO BEFORE
ME THIS _____ DAY OF _____ 20__

NOTARY PUBLIC
MY COMMISSION EXPIRES _____

2"

REVISIONS		
NO.	DATE	DESCRIPTION

APPROVED: DATE May 8, 1990

STANDARD OWNERS STATEMENT BLOCK
CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.
Item # 8

STD. NO.	REV.
10.13	

3 1/4"

APPROVAL

THIS FINAL PLAT, # _____, AND THE
STREET NAME(S) HEREON WERE
APPROVED BY THE GREENVILLE PLANNING
AND ZONING COMMISSION AT A MEETING
HELD THE _____ DAY OF _____
20____.

SIGNED _____
CHAIRMAN

SIGNED _____
CITY PLANNER

2"

REVISIONS

NO.	DATE	DESCRIPTION
A	11-16-83	ENGINEER TO PLANNER

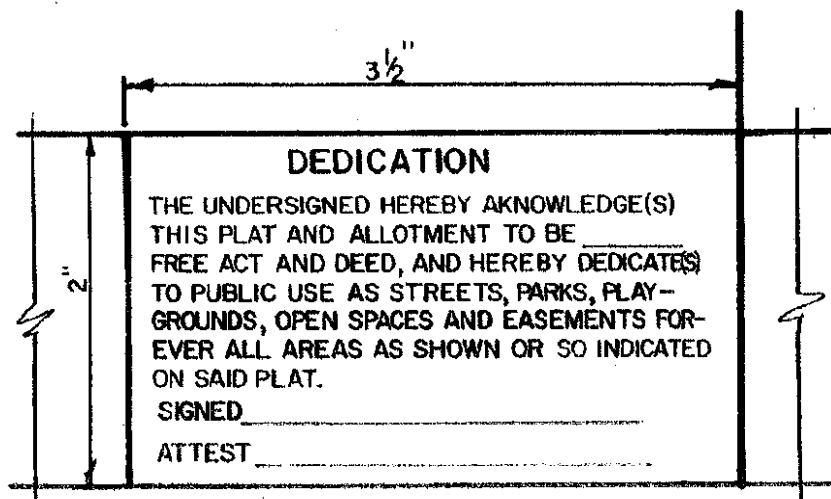
APPROVED: DATE May 8, 1980

STANDARD "APPROVALS" INFORMATION BLOCK

CITY OF GREENVILLE, N.C.—ENGINEERING DEPT.

STD. NO.	REV.
10.14	A

Item # 8



REVISIONS

NO.	DATE	DESCRIPTION

APPROVED: DATE May 8, 1980

STANDARD DEDICATION INFORMATION BLOCK
CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.
Item # 8

STD. NO.	REV.
10.15	

COMMENTS:

THE SURVEYOR'S CERTIFICATION SHALL BE SUBSTANTIALLY IN THE FORM SHOWN FOR SURVEYS MADE BY TRADITIONAL SURVEY METHODS. FOR SURVEYS PERFORMED USING BOTH TRADITIONAL AND GPS SURVEYING METHODS USE MSDD STANDARD 10.16.2. THE SURVEYOR SHOULD REFER TO AND COMPLY WITH THE CURRENT NCBELS RULES 21 NCAC 56 .1600, "STANDARDS OF PRACTICE OF LAND SURVEYING IN NORTH CAROLINA", AND G.S. 47-30 FOR ANY RULE AMENDMENTS.
www.ncbels.org

REQUIRED MINIMUM ACCURACY STANDARDS: (21 NCAC 56 .1603 & .1605)

HORIZONTAL: "URBAN LAND SURVEYS", CLASS "A" (1:10,000+)

VERTICAL: "URBAN AND SUBURBAN VERTICAL CONTROL SURVEYS", CLASS "A"
 (Error not to exceed 0.10 times the square root of the numbers of miles run from reference station)

SURVEYOR'S CERTIFICATION

I, _____, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL FIELD SURVEY PERFORMED UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOK _____, PAGE _____, OR FROM BOOKS REFERENCED HEREON); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN BOOK _____, PAGE _____, OR AS REFERENCED HEREON; THAT THE RATIO OF PRECISION AS CALCULATED IS 1: _____; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED.

I, FURTHER CERTIFY PURSUANT TO G.S. 47-30 (f)(11)(a), THIS SURVEY CREATES A SUBDIVISION OF LAND WITHIN A COUNTY OR MUNICIPALITY THAT HAS AN ORDINANCE THAT REGULATES PARCELS OF LAND.

WITNESS MY ORIGINAL SIGNATURE AND SEAL. THIS THE _____ DAY OF _____, 20____.

SIGNED _____
 PROFESSIONAL LAND SURVEYOR No. L-####

NO.	DATE	DESCRIPTION
A	11/16/83	GS 47-30 AMENDED
B	12/13/98	GS 47-30 AMENDED ADD REVIEW OFFICER
C	05/06/09	GS 47-30 & NCBELS RULES AMENDED

APPROVED: PENDING

FINAL PLAT SURVEYOR'S CERTIFICATION USING TRADITIONAL ONLY SURVEY METHODS
CITY OF GREENVILLE, N.C.-ENGINEERING DEPT.

STD. NO.	REV.
10.16.1	C

COMMENTS:

THE SURVEYOR'S CERTIFICATION SHALL BE SUBSTANTIALLY IN THE FORM SHOWN FOR SURVEYS MADE BY BOTH TRADITIONAL AND GPS SURVEY METHODS. FOR TRADITIONAL ONLY SURVEYS USE MSDD STANDARD 10.16.1. THE SURVEYOR SHOULD REFER TO AND COMPLY WITH THE CURRENT NCBELS RULES 21 NCAC 56 .1600, "STANDARDS OF PRACTICE OF LAND SURVEYING IN NORTH CAROLINA", AND G.S. 47-30 FOR ANY RULE AMENDMENTS. www.ncbels.org

REQUIRED MINIMUM ACCURACY STANDARDS: (21 NCAC 56 .1603 & .1605)

HORIZONTAL: "URBAN LAND SURVEYS", CLASS "A" (1:10,000+)
 VERTICAL: "URBAN AND SUBURBAN VERTICAL CONTROL SURVEYS", CLASS "A"
 (Error not to exceed 0.10 times the square root of the numbers of miles run from reference station)

REFERENCE INFORMATION REQUIRED FOR GPS SURVEYS IN THE CERTIFICATION. (REF. NCBELS BOARD RULE 21 NCAC 56 .1607)

- (1) POSITIONAL ACCURACY: _____ (0.07 feet +/- 50PPM or less)
- (2) TYPE OF GPS FIELD PROCEDURE : _____
 (STATIC, REAL-TIME KINEMATIC, REAL-TIME KINEMATIC NETWORK, ONLINE POSITION USER SERVICE)
- (3) DATE (S) OF SURVEY: _____
- (4) DATUM / EPOCH: _____
 (HORIZONTAL (NAD83/86, NAD83(NRSRS2007), etc.; VERTICAL (NAVD88))
- (5) PUBLISHED/FIXED-CONTROL STATIONS USED: _____
 (INCLUDE: STATION NAMES, HORIZONTAL POSITION (NORTHING AND EASTING), ELEVATION, DATUM AND EPOCH)
- (6) GEOID MODEL USED: _____
 (GEOID05, GEOID06, GEOID09, etc.)
- (7) COMBINED GRID FACTOR(S): _____
- (8) UNITS: US SURVEY FOOT

NO.	DATE	DESCRIPTION
A	11/16/03	GS 47-30 AMENDED
B	12/13/08	GS 47-30 AMENDED ADD REVIEW OFFICER
C	05/06/09	GS 47-30 & NCBELS RULES AMENDED

SURVEYOR'S CERTIFICATION

I, _____, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL FIELD SURVEY PERFORMED UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOK _____, PAGE _____, OR FROM BOOKS REFERENCED HEREON); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN BOOK _____, PAGE _____, OR AS REFERENCED HEREON; THAT THE RATIO OF PRECISION FOR TRADITIONAL SURVEY METHODS IS 1: _____; THAT THE GLOBAL POSITIONING SYSTEM (GPS) OBSERVATIONS WERE PERFORMED TO THE GEOSPATIAL POSITIONING ACCURACY STANDARDS, PART 2: STANDARDS FOR GEODETIC NETWORKS AT THE CLASS "A" ACCURACY CLASSIFICATION (95% CONFIDENCE) AND THE FOLLOWING INFORMATION WAS USING TO PERFORM THE GPS SURVEY:

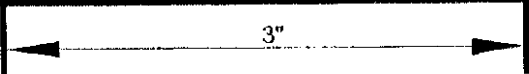
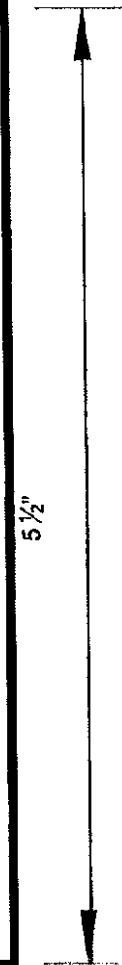
POSITIONAL ACCURACY: _____
 TYPE OF GPS FIELD PROCEDURE: _____
 DATE(S) OF SURVEY: _____
 DATUM / EPOCH: _____
 PUBLISHED/FIXED-CONTROL MONUMENTS USED: _____

 GEOID MODEL: _____
 COMBINED GRID FACTOR: _____
 UNITS: _____

THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED.
 I, FURTHER CERTIFY PURSUANT TO G.S.47-30 (f)(1)(a), THIS SURVEY CREATES A SUBDIVISION OF LAND WITHIN A COUNTY OR MUNICIPALITY THAT HAS AN ORDINANCE THAT REGULATES PARCELS OF LAND.

WITNESS MY ORIGINAL SIGNATURE AND SEAL THIS THE _____ DAY OF _____, 20 _____

SIGNED _____
 PROFESSIONAL LAND SURVEYOR No. L-###



APPROVED: PENDING

FINAL PLAT SURVEYOR'S CERTIFICATION USING TRADITIONAL AND GPS SURVEY METHODS
 CITY OF GREENVILLE, N.C.-ENGINEERING DEPT.

STD. NO.	REV.
10.16.2	C

REVIEW OFFICER'S CERTIFICATION

I, _____, A REVIEW OFFICER OF PITT COUNTY, N.C., CERTIFY THAT THE MAP OR PLAT TO WHICH THIS CERTIFICATION IS AFFIXED MEETS ALL STATUTORY REQUIREMENTS FOR RECORDING.

BY _____
REVIEW OFFICER

DATE: _____

2" 3"

NO.	DATE	DESCRIPTION
A	5/06/09	NEW AS A SEPARATE CERTIFICATION

APPROVED: PENDING

FINAL PLAT REVIEW OFFICER'S CERTIFICATION

CITY OF GREENVILLE, N.C.-ENGINEERING DEPT.

STD. NO.	REV.
10.16.3	A

1/2"

24"

VICINITY MAP

NOTE: NORTH ARROW TO BE IN UPPER 180° QUADRANTS



1" = 1000'

1/2"

1/2"

18"

LEGEND

NEW CITY LIMIT - - - - -
OLD CITY LIMIT - - - - -
CITY LIMIT - - - - -

SEE
DETAIL
10.17.1
10.17.2

(NAME)	SUBDIVISION	MAP NO.	PLATS RECORDED	BOOK	PAGE	MAP SHOWING AREA ANNEXED BY THE CITY OF GREENVILLE, N.C. (DATE) (ORDINANCE NO.) (AREA) TOWNSHIP, PITT COUNTY, N.C.
SECTION (NO)						
10.17.1						
10.17.2						

SURVEYED: _____
DRAWN: _____
CHECKED: _____
APPROVED: _____
DATE: _____
SCALE: _____

2 1/4" 1 3/4" 1 3/4" 1 1/4" 2 3/4" 1" 1" 7 1/4" 3"

NO.	DATE	DESCRIPTION
1	9/91	DIM. CHANGE

ORIGINAL TO BE ON DRAFTING FILM, 0.003--0.004 INCH THICKNESS
ONE FILM COPY FOR CITY FILES

RESERVE AREA FOR REGISTER OF DEEDS STICKER

APPROVED: DATE Dec 31, 1991

STANDARD FORMAT ANNEXATION MAP

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

Item # 8

STD. NO.	REV.
10.17	1

COMMENTS:

THE SURVEYOR'S CERTIFICATION SHALL BE SUBSTANTIALLY IN THE FORM SHOWN FOR SURVEYS MADE BY TRADITIONAL SURVEY METHODS. FOR SURVEYS PERFORMED USING BOTH TRADITIONAL AND GPS SURVEYING METHODS USE MSDD STANDARD 10.16.2. THE SURVEYOR SHOULD REFER TO AND COMPLY WITH THE CURRENT NCBELS RULES 21 NCAC 56 .1600, "STANDARDS OF PRACTICE OF LAND SURVEYING IN NORTH CAROLINA", AND G.S. 47-30 FOR ANY RULE AMENDMENTS.
www.ncbels.org

REQUIRED MINIMUM ACCURACY STANDARDS: (21 NCAC 56 .1603 & .1605)

HORIZONTAL: "URBAN LAND SURVEYS", CLASS "A" (1:10,000+)
 VERTICAL: "URBAN AND SUBURBAN VERTICAL CONTROL SURVEYS", CLASS "A"
 (Error not to exceed 0.10 times the square root of the numbers of miles run from reference station)

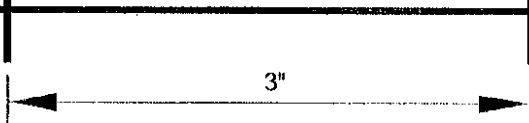
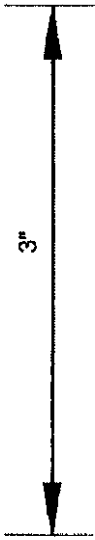
SURVEYOR'S CERTIFICATION

I, _____, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL FIELD SURVEY PERFORMED UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOK _____, PAGE _____, OR FROM BOOKS REFERENCED HEREON); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN BOOK _____, PAGE _____, OR AS REFERENCED HEREON; THAT THE RATIO OF PRECISION AS CALCULATED IS 1: _____; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED.

I, FURTHER CERTIFY PURSUANT TO G.S. 47-30 (f)(1)(d), THIS SURVEY IS OF ANOTHER CATEGORY AND IS AN EXEMPTION TO THE DEFINITION OF A SUBDIVISION.

WITNESS MY ORIGINAL SIGNATURE AND SEAL THIS THE _____ DAY OF _____, 20____.

SIGNED _____
 PROFESSIONAL LAND SURVEYOR No. L-####



NO.	DATE	DESCRIPTION
A	11/16/83	GS 47-30 AMENDED
B	12/13/98	GS 47-30 AMENDED ADD REVIEW OFFICER
C	05/06/00	GS 47-30 & NCBELS RULES AMENDED

APPROVED: PENDING

ANNEXATION MAP SURVEYOR'S CERTIFICATION USING TRADITIONAL ONLY SURVEY METHODS

CITY OF GREENVILLE, N.C.-ENGINEERING DEPT.

SYD. NO.	REV.
10.17.1	C

COMMENTS:

THE SURVEYOR'S CERTIFICATION SHALL BE SUBSTANTIALLY IN THE FORM SHOWN FOR SURVEYS MADE BY BOTH TRADITIONAL AND GPS SURVEY METHODS. FOR TRADITIONAL ONLY SURVEYS USE MSDD STANDARD 10.16.1. THE SURVEYOR SHOULD REFER TO AND COMPLY WITH THE CURRENT NCBELS RULES 21 NCAC 56 .1600, "STANDARDS OF PRACTICE OF LAND SURVEYING IN NORTH CAROLINA", AND G.S. 47-30 FOR ANY RULE AMENDMENTS. www.ncbels.org

REQUIRED MINIMUM ACCURACY STANDARDS: (21 NCAC 56 .1603 & .1605)

HORIZONTAL: "URBAN LAND SURVEYS", CLASS "A" (1:10,000+)
 VERTICAL : "URBAN AND SUBURBAN VERTICAL CONTROL SURVEYS", CLASS "A"
 (Error not to exceed 0.10 times the square root of the numbers of miles run from reference station)

REFERENCE INFORMATION REQUIRED FOR GPS SURVEYS IN THE CERTIFICATION. (REF. NCBELS BOARD RULE 21 NCAC 56 .1607)

- (1) POSITIONAL ACCURACY: _____ (0.07 feet +/- 50PPM or less)
- (2) TYPE OF GPS FIELD PROCEDURE : _____
(STATIC, REAL-TIME KINEMATIC, REAL-TIME KINEMATIC NETWORK, ONLINE POSITION USER SERVICE)
- (3) DATE (S) OF SURVEY: _____
- (4) DATUM / EPOCH: _____
(HORIZONTAL (NAD83/86, NAD83(NSRS2007), etc.; VERTICAL (NAVD83))
- (5) PUBLISHED/FIXED-CONTROL STATIONS USED: _____
(INCLUDE: STATION NAMES, HORIZONTAL POSITION (NORTHING AND EASTING), ELEVATION DATUM AND EPOCH)
- (6) GEOID MODEL USED: _____
(GEOID03, GEOID06, GEOID09, etc.)
- (7) COMBINED GRID FACTOR(S): _____
- (8) UNITS: US SURVEY FOOT

NO.	DATE	DESCRIPTION
A	01/16/83	GS 47-30 AMENDED
B	02/13/98	GS 47-30 AMENDED ADD REVIEW OFFICER
C	05/06/09	GS 47-30 & NCBELS RULES AMENDED

SURVEYOR'S CERTIFICATION

I, _____, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL FIELD SURVEY PERFORMED UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOK _____, PAGE _____, OR FROM BOOKS REFERENCED HEREON); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN BOOK _____, PAGE _____, OR AS REFERENCED HEREON; THAT THE RATIO OF PRECISION FOR TRADITIONAL SURVEY METHODS IS 1: _____; THAT THE GLOBAL POSITIONING SYSTEM (GPS) OBSERVATIONS WERE PERFORMED TO THE GEOSPATIAL POSITIONING ACCURACY STANDARDS, PART 2: STANDARDS FOR GEODETIC NETWORKS AT THE CLASS "A" ACCURACY CLASSIFICATION (95% CONFIDENCE) AND THE FOLLOWING INFORMATION WAS USING TO PERFORM THE GPS SURVEY:

POSITIONAL ACCURACY: _____
 TYPE OF GPS FIELD PROCEDURE: _____
 DATE(S) OF SURVEY: _____
 DATUM / EPOCH: _____
 PUBLISHED/FIXED-CONTROL MONUMENTS USED: _____

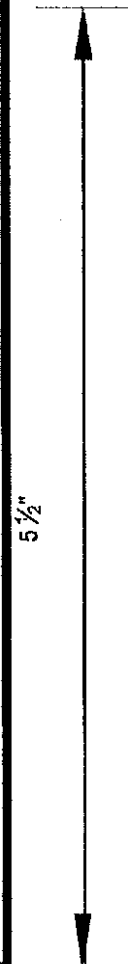
GEOID MODEL: _____
 COMBINED GRID FACTOR: _____
 UNITS: _____

THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED.

I, FURTHER CERTIFY PURSUANT TO G.S.47-30 (f)(11)(d), THIS SURVEY IS OF ANOTHER CATEGORY AND IS AN EXEMPTION TO THE DEFINITION OF A SUBDIVISION.

WITNESS MY ORIGINAL SIGNATURE AND SEAL THIS THE _____ DAY OF _____, 20____.

SIGNED _____
 PROFESSIONAL LAND SURVEYOR No. L-####



APPROVED: PENDING

ANNEXATION MAP SURVEYOR'S CERTIFICATION USING TRADITIONAL AND GPS SURVEY METHODS

CITY OF GREENVILLE, N.C.-ENGINEERING DEPT.

STD. NO.	REV.
10.17.2	C

REVIEW OFFICER'S CERTIFICATION

I, _____, A REVIEW OFFICER OF PITT COUNTY, N.C., CERTIFY THAT THE MAP OR PLAT TO WHICH THIS CERTIFICATION IS AFFIXED MEETS ALL STATUTORY REQUIREMENTS FOR RECORDING.

BY _____
REVIEW OFFICER

DATE: _____

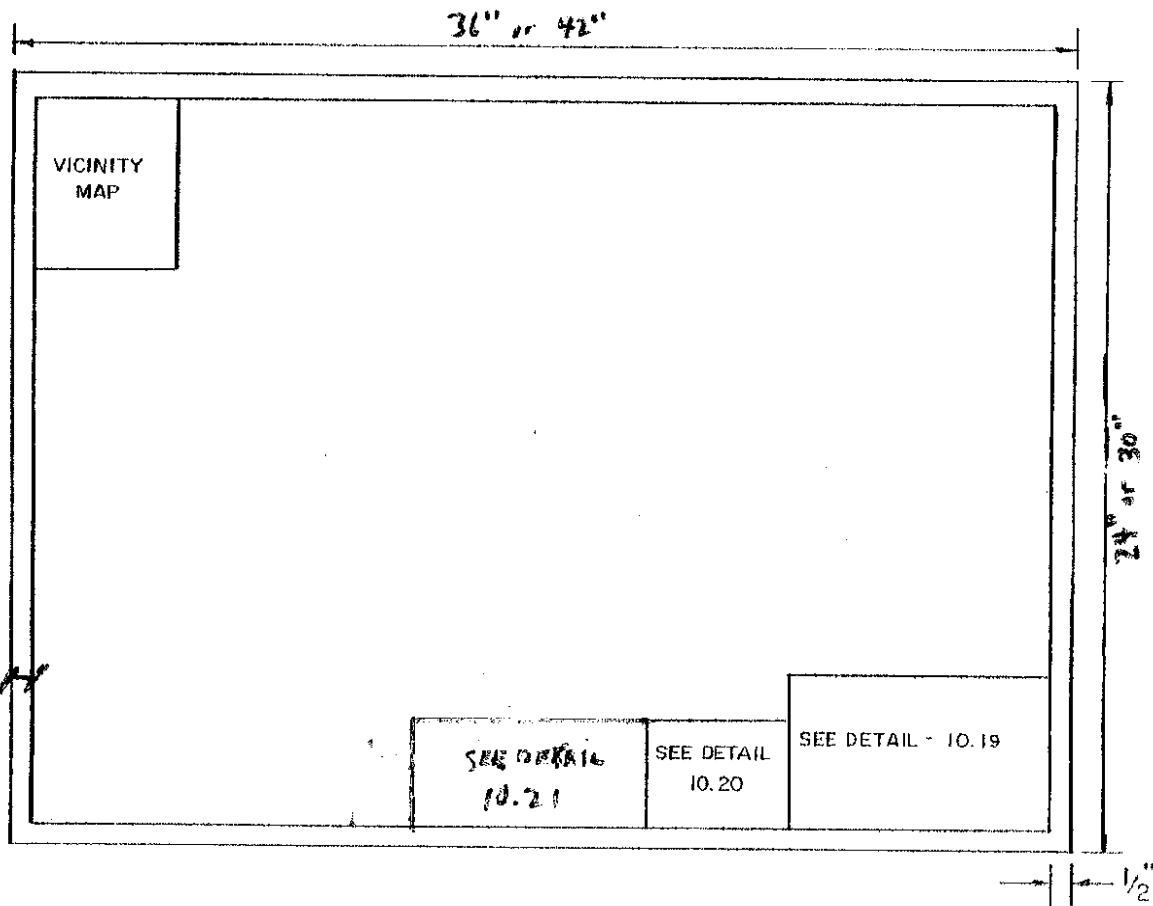
2" 3"

NO.	DATE	DESCRIPTION
A	5/06/09	NEW AS A SEPARATE CERTIFICATION

APPROVED: PENDING

ANNEXATION MAP REVIEW OFFICER'S CERTIFICATION
CITY OF GREENVILLE, N.C.-ENGINEERING DEPT.

STD. NO.	REV.
10.17.3	A



REVISIONS

NO.	DATE	DESCRIPTION

APPROVED: DATE SEPT 14, 1989

STANDARD PUD LAND USE PLAN LAYOUT

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

Item # 8

STD. NO.	REV.
10.18	

(NAME)

CITY, TOWNSHIP, PITT COUNTY, N. C.

OWNER(S) _____

ADDRESS _____

PHONE _____

CONSULTING ENGINEER(S)
NAME
ADDRESS
FIRM LICENSE NO.

SURVEYED:

APPROVED:

DRAWN:

DATE:

CHECKED:

SCALE:

2"

1 1/2"

1"

5/16"

5/16"

3/8"

6"

REVISIONS

NO.	DATE	DESCRIPTION

APPROVED: DATE SEPT 14, 1989

STANDARD TITLE BLOCK FOR PUD LAND USE PLAN

CITY OF GREENVILLE, N. C. — ENGINEERING DEPT.

Item # 8

STD. NO.	REV.
10.19	

3 1/4"

APPROVAL	
THIS PLANNED UNIT DEVELOPMENT LAND USE PLAN, # _____ WAS APPROVED BY THE GREENVILLE PLANNING AND ZONING COMMISSION AT A MEETING HELD THE _____ DAY OF _____	
20 _____	
SIGNED _____	CHAIRMAN
SIGNED _____	CITY PLANNER

2 1/2"

REVISIONS

NO.	DATE	DESCRIPTION

APPROVED: DATE SEPT 14, 1989

STANDARD "APPROVALS" INFORMATION BLOCK

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

STD. NO.	REV.
10.20	

Item # 8

COMMENTS:

THE SURVEYOR'S CERTIFICATION SHALL BE SUBSTANTIALLY IN THE FORM SHOWN FOR SURVEYS MADE BY TRADITIONAL SURVEY METHODS. FOR SURVEYS PERFORMED USING BOTH TRADITIONAL AND GPS SURVEYING METHODS USE MSDD STANDARD 10.21.2 THE SURVEYOR SHOULD REFER TO AND COMPLY WITH THE CURRENT NCBELS RULES 21 NCAC 56 .1600, "STANDARDS OF PRACTICE OF LAND SURVEYING IN NORTH CAROLINA", AND G.S. 47-30 FOR ANY RULE AMENDMENTS, www.ncbels.org

REQUIRED MINIMUM ACCURACY STANDARDS: (21 NCAC 56 .1603 & .1605)

HORIZONTAL: "URBAN LAND SURVEYS", CLASS "A" (1:10,000+)

VERTICAL : "URBAN AND SUBURBAN VERTICAL CONTROL SURVEYS", CLASS "A"

(Error not to exceed 0.10 times the square root of the numbers of miles run from reference station)

SURVEYOR'S CERTIFICATION

I, _____, CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AND ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOK _____, PAGE _____, OR FROM BOOKS REFERENCED HEREON); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN BOOK _____, PAGE _____, OR AS REFERENCED HEREON; THAT THE RATIO OF PRECISION AS CALCULATED IS 1: _____; THAT THIS TOPOGRAPHIC SURVEY WAS PERFORMED TO MEET FEDERAL GEOGRAPHIC DATA COMMITTED STANDARDS AS APPLICABLE; THAT THE TOPOGRAPHIC DATA WAS OBTAINED ON _____ (insert dates); THAT THE SURVEY WAS COMPLETED ON _____ (insert date); THAT THE CONTOURS SHOWN AS BROKEN LINES MAY NOT MEET THE STATED STANDARD; THAT VERTICAL CONTROL WAS ESTABLISHED AT THE SITE TO THE CLASS "A" STANDARD; AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE "STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA" (21 NCAC 56.1600).

WITNESS MY ORIGINAL SIGNATURE AND SEAL THIS THE _____ DAY OF _____, 20 ____.

SIGNED _____
PROFESSIONAL LAND SURVEYOR No. L-####

2 1/2"

5 1/2"

NO.	DATE	DESCRIPTION
A	05/06/03	NEW CERTIFICATION REQUIRED PER NCBELS RULES

APPROVED: PENDING

P.U.D. LAND USE PLAN SURVEYOR'S CERTIFICATION USING TRADITIONAL ONLY SURVEY METHODS

CITY OF GREENVILLE, N.C.-ENGINEERING DEPT.

STD. NO.	REV.
10.21.1	A

COMMENTS:

THE SURVEYOR'S CERTIFICATION SHALL BE SUBSTANTIALLY IN THE FORM SHOWN FOR SURVEYS MADE BY BOTH TRADITIONAL AND GPS SURVEY METHODS. FOR TRADITIONAL ONLY SURVEYS USE MSDD STANDARD 10.16.1. THE SURVEYOR SHOULD REFER TO AND COMPLY WITH THE CURRENT NCBELS RULES 21 NCAC 56 .1600, "STANDARDS OF PRACTICE OF LAND SURVEYING IN NORTH CAROLINA", AND G.S. 47-30 FOR ANY RULE AMENDMENTS. www.ncbels.org

REQUIRED MINIMUM ACCURACY STANDARDS: (21 NCAC 56 .1603 & .1605)

HORIZONTAL: "URBAN LAND SURVEYS", CLASS "A" (1:10,000±), GPS (0.07 feet +/- 50PPM or less)

VERTICAL: "URBAN AND SUBURBAN VERTICAL CONTROL SURVEYS", CLASS "A" (Error not to exceed 0.10 times the square root of the numbers of miles run from reference station)

REFERENCE INFORMATION REQUIRED FOR GPS SURVEYS IN THE CERTIFICATION. (REF. NCBELS BOARD RULE 21 NCAC 56 .1607)

(1) POSITIONAL ACCURACY: _____ (0.07 feet +/- 50PPM or less)

(2) TYPE OF GPS FIELD PROCEDURE: _____

(3) DATE (S) OF SURVEY: _____

(4) DATUM / EPOCH: _____

(5) PUBLISHED/FIXED-CONTROL STATIONS USED: _____

(6) GEOID MODEL USED: _____

(7) COMBINED GRID FACTOR(S): _____

(8) UNITS: US SURVEY FOOT

(STATIC, REAL-TIME KINEMATIC, REAL-TIME KINEMATIC NETWORK, ONLINE POSITION USER SERVICE)

[HORIZONTAL (NAD83/86, NAD83(NSRS2007), etc.; VERTICAL (NAVD88)]

INCLUDE: STATION NAMES, HORIZONTAL POSITION (NORTHING AND EASTING), ELEVATION, DATUM AND EPOCH) (GEOID03, GEOID06, GEOID09, etc.)

SURVEYOR'S CERTIFICATION

I, _____, CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOK _____, PAGE _____, OR FROM BOOKS REFERENCED HEREON); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN BOOK _____, PAGE _____, OR AS REFERENCED HEREON; THAT THE RATIO OF PRECISION AS CALCULATED IS 1: _____; THAT THIS TOPOGRAPHIC SURVEY WAS PERFORMED TO MEET FEDERAL GEOGRAPHIC DATA COMMITTED STANDARDS AS APPLICABLE; THAT THE TOPOGRAPHIC DATA WAS OBTAINED ON _____ (insert dates); THAT THE SURVEY WAS COMPLETED ON _____ (insert date); THAT THE CONTOURS SHOWN AS BROKEN LINES MAY NOT MEET THE STATED STANDARD; THAT VERTICAL CONTROL WAS ESTABLISHED AT THE SITE TO THE _____ CLASS "A" STANDARD THAT A GLOBAL POSITIONING SYSTEM (GPS) SURVEY WAS PERFORMED TO ESTABLISH THE HORIZONTAL AND VERTICAL CONTROL FOR THE PROJECT; THAT THE (GPS) OBSERVATIONS WERE PERFORMED TO THE GEOSPATIAL POSITIONING ACCURACY STANDARDS, PART 2: STANDARDS FOR GEODETIC NETWORKS AT THE _____ CLASS "A" ACCURACY CLASSIFICATION (95% CONFIDENCE) AND THE FOLLOWING INFORMATION WAS USING TO PERFORM THE GPS SURVEY:

POSITIONAL ACCURACY: _____

TYPE OF GPS FIELD PROCEDURE: _____

DATE(S) OF SURVEY: _____

DATUM / EPOCH: _____

GEOID MODEL: _____

UNITS: _____

PUBLISHED/FIXED-CONTROL MONUMENTS USED: _____

AND THAT THIS MAP MEETS THE REQUIREMENTS OF "THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA" (21 NCAC 56.1600).

WITNESS MY ORIGINAL SIGNATURE AND SEAL THIS THE _____ DAY OF _____, 20 _____

SIGNED _____

PROFESSIONAL LAND SURVEYOR No. L-#0000

2 1/2"

9 1/4"

NO.	DATE	DESCRIPTION
A	05/06/09	NEW CERTIFICATION REQUIRED PER NCBELS RULES

APPROVED: PENDING

P.U.D LAND USE PLAN SURVEYOR'S CERTIFICATION USING TRADITIONAL AND GPS SURVEY METHODS

CITY OF GREENVILLE, N.C.-ENGINEERING DEPT.

STD. NO.	REV.
10.21.2	A

RECORD DRAWINGS AND APPENDIX

Street and Storm Drainage "Record Drawings" Submittal Requirements

The following identifies the requirements, information, and format for submitting Record Drawings to the Engineering Division of the Public Works Department for review and approval. Record Drawings shall be submitted for any street and city storm drainage infrastructure proposed for maintenance by the City of Greenville. Record Drawings shall be submitted and approved prior to scheduling of the pre-final street acceptance inspection.

All Record Drawings shall include, but not necessarily limited to, the following:

- 1) Streets
 - a. Horizontal alignment of the centerline (changes to be noted)
 - b. Centerline final surface elevation:
 - i. intersections - crossing of street centerlines
 - ii. points of vertical inflection (pvi) - street centerline at point of inflection
 - iii. radius points of cul-de-sacs
 - iv. radius points for "hammerheads"
 - v. end of pavement construction (street centerline)
 - c. Width (Verification with approved plans)

- 2) Sidewalks (Verification with approved plans)
 - a. Width
 - b. Length
 - c. Thickness
 - d. Material
 - e. Location

- 3) Stormwater Pipes
 - a. Size
 - b. Shape
 - c. Material
 - d. Length
 - e. Slope

- 4) Structures (Junction Box, Drop Inlets, Catch Basins, Interference Boxes, Outlet Structure)
 - a. Rim/hood elevation
 - b. All pipe invert elevations
 - c. Material
 - d. Construction type (pre-cast, masonry block, or cast-in-place)
 - e. Interior bottom elevation of structure
 - f. Cover (lid/grate) dimensions

Page 2

- g. Weirs
 - i. Type
 - ii. Invert elevation
 - iii. Top of weir elevation
 - iv. Length

- 5) Level Spreaders / Flow Diffusers
 - a. Length
 - b. Material
 - c. Depth
 - d. Width

- 6) Flared End Sections
 - a. Material
 - b. Invert
 - c. Size
 - d. Outlet/Inlet Protection
 - i. Dimensions

Note:

- The "Record Drawings Submittal Process" outlines the submittal requirements and formats for submitting the Record Drawing information.
- Initial submittals may be submitted as either a contractor's red-lined mark-ups of approved construction drawings or an electronic submission of approved construction drawings with changes to the above "clouded" based on the contractor's red-lined mark-ups.
- Upon receipt of approval of the "Record Drawings", a licensed professional engineer with the State of North Carolina (either the engineer of record or one hired by the developer) will be required to submit final electronic documents with the following certification statement:

"I, _____, as a duly registered Professional Engineer in the State of North Carolina, hereby certify that construction of the street(s) and storm drainage infrastructure as presented on these Record Drawings has been completed in substantial accordance with the approved plans and specifications and that the information pertaining to said infrastructure provided by _____ and prepared under the supervision of _____ is correct to the best of my knowledge and belief."

Record Drawing Submittal Process

The submittal process for the review and approval of Record Drawings is as follows:

1) Submittal of Record Drawings

- a) Submit two (2) copies of either a contractor's "red-lined" mark-ups of approved construction drawings or an electronic submission of approved construction drawings with changes to the above "clouded" based on a contractor's "red-lined" mark-ups to the Engineering Division's Capital Improvement Section.
 - i) Only changes from the approved construction drawings need to be presented.
 - ii) The "red-lined" information will have a single line placed through it with the revised information or measurement placed next to it.
 - iii) If an electronic drawing is submitted in place of the contractor's red line drawings, then a single line will be drawn through the errant information. The correct information will be placed next to the errant information and a "cloud" will surround both.
 - iv) A licensed professional engineer with the State of North Carolina (either the engineer of record or one hired by the developer) shall also be responsible for reviewing the contractor's red line mark-ups of approved construction drawings prior to submittal to the City of Greenville.
- b) Submit storm drainage calculations
 - i) The engineer shall review the Record Drawings to determine and establish if any construction deviations will impact positive storm drainage flow throughout the system or place the system out of compliance with the City of Greenville requirements.
 - ii) If there is not positive drainage throughout the storm drainage system or if the system is not in compliance with the approved construction drawings or the City of Greenville requirements, the engineer must submit revised storm drainage calculations based on the record drawings for review and evaluation by the Engineering Division, as well as discuss the issue(s) with the City Engineer to determine a viable solution(s).
- c) Record Drawings shall be reviewed within ten (10) working days after date of receipt.
 - i) The benchmark(s) and datum used for measurements of the record drawings shall be conveyed and easily interpreted on the submitted drawings and shall be the same as used for the design of the original approved construction drawings and for construction.

Page 2

- (1) If the referenced benchmark(s) used for design and construction and shown on the approved construction drawings have been compromised, new benchmark(s) must be reestablished to an accuracy on the site from published NGS monuments in accordance with the **Standards of Practice For Land Surveyors in North Carolina**, N.C.A.C. Title 21, Chapter 56, Section 1600, and by either conventional survey methods or Global Positioning Systems survey methods (21 NCAC 56.1607).

** Revisions to the record drawing submittals or requests for additional information may be required by the City of Greenville staff and may delay approval.*

- ii) Any exceptions or deviations from the approved construction drawings determined as acceptable by the City Engineer shall be noted on and incorporated as part of the final Record Drawings.

2) Upon approval of all Record Drawings

- a) One (1) copy shall be returned by the Engineering Division to the engineer with an approval stamp.
- b) The engineer shall submit an electronic copy of the drawing in "pdf" format with the following certification:

"I, _____, as a duly registered Professional Engineer in the State of North Carolina, hereby certify that construction of the street(s) and storm drainage infrastructure as presented on these Record Drawings has been completed in substantial accordance with the approved plans and specifications and that the information pertaining to said infrastructure provided by _____ and prepared under the supervision of _____ is correct to the best of my knowledge and belief."

- c) The engineer shall also be submit an electronic drawing in a version of AutoCAD "DWG" format compatible with the City of Greenville's current system.
 - d) The Owner's and Engineer's Certification of Completion forms shall be submitted to Engineering Division.
- 3) A pre-final street acceptance inspection shall be scheduled following approval and completion of all submittal requirements stated above.

Street Acceptance Timeline

The following is a summary of the Street Acceptance Process. Details on the Record Drawing Submittal Process can be found within the document named "Street and Storm Drainage Record Drawing Submittal Requirements". Details on the Final Inspection Process can be found within the document named "Final Inspections – Subdivision".

- 1) Developer completes all construction infrastructure proposed for continuous maintenance by the City of Greenville.*
- 2) The Record Drawing Submittal Process is initialized with the submission of the developer's contractors' red-lined drawings or electronic drawings with "clouded" changes to the approved construction drawings.
- 3) A licensed professional engineer with the State of North Carolina (either the engineer of record or one hired by the developer) will verify that the street(s) and storm drainage infrastructure as presented on these Record Drawings has been completed in substantial accordance with the approved plans and specifications. The engineer will review this information to confirm that the system meets the City of Greenville requirements. If the storm drainage system is not in compliance with the approved construction drawings or the City of Greenville's requirements, the engineer will submit revised storm drainage calculations based on the Record Drawings for review and evaluation by the Engineering Division, as well as discuss the issue(s) with the City Engineer to determine a viable solution(s).
- 4) Red-lined drawings and stormwater calculations are reviewed within ten (10) working days, unless additional information is required.
- 5) A pre-final inspection may be scheduled by the contractor with the City Engineer or his designee upon: approval of the Record Drawings; the submittal of the electronic Record Drawings with the certification statement by the engineer; and the submittal of the Owner's and Engineer's Certification of Completion forms.
- 6) After the pre-final inspection is performed and all punch-list items from the pre-final inspection are completed, the final inspection with the City Engineer may be scheduled – this will be coordinated through the City Engineer or his designee. Upon notification, the date of the final inspection will be scheduled within three (3) working days.
- 7) The Contractor has thirty (30) days to complete any additional items found deficient during the final inspection or a re-inspection will need to be performed.

(*) Developer is responsible for meeting all acceptance and inspection requirements for infrastructure proposed for continuous maintenance by the Greenville Utilities Commission.

Final Inspections - Subdivisions

INTRODUCTION

As subdivision development nears completion, it becomes necessary for the City of Greenville to conduct a "final inspection" of work performed in anticipation of street acceptance for continuous maintenance by the City. This inspection will encompass review of all aspects of subdivision construction to ensure compliance with approved plans, applicable regulations and standards. So as to maintain consistency and thoroughness in conduction of the "final inspection", the following guidelines are to be followed:

Single family, Industrial, Multi-family, and Innovative Subdivisions:

- A. Once the subdivision has been completed. Record Drawings of the subdivision (as identified in the Street and Storm Drainage Record Drawing Submittal Requirements) shall be completed and sent to the City Engineer or his designee for acceptance. These drawings will be reviewed within ten (10) working days after date of receipt.
- B. After the Record Drawings have been accepted by the City Engineer and the electronic Record Drawings with the certification statement by the Owner's engineer and the Owner's and Engineer's Certification of Completion forms have been submitted, the subdivision developer shall formally request a pre-final inspection through the Engineer Division's Subdivision Inspector, which may be presented in writing or by telephone. This will allow for the subdivision to be prepared for the final inspection to be conducted by City Engineer. After all items are identified in the pre-final process are addressed, the final inspection may be requested.
- C. It will be the responsibility of the subdivision developer or representative to formally request a final inspection through the City Engineer's Office. This shall be done in writing by the developer or representative thereof.
- D. The Subdivision Inspector will verify status of the involved subdivision to the City Engineer. It will be the Subdivision Inspector's responsibility to ensure the subdivision is constructed according to the approved preliminary subdivision plan and Manual of Standard Designs and Details, unless approved through an official variance or plan revision.
- E. Once the subdivision is determined ready for final inspection, the Subdivision Inspector will schedule the final inspection with the subdivision developer or his appointed designee at a time convenient for himself and the City Engineer. It will be the Subdivision Inspector's responsibility to notify the aforementioned persons of the confirmed inspection time within three (3) working days once it has been determined that the subdivision is ready for final inspection.
- F. Should the subdivision not be ready for inspection, the Subdivision Inspector will work with the developer to bring the involved subdivision into conformance. This will include, but not be limited to:
 1. Streets shall be swept clean up to the gutter line of the curb.
 2. Check asphalt pavement, all concrete ramps, sidewalks, and curb and gutter for cracks, alignment, and settlement. The developer is responsible for testing and providing test results to verify the specified thickness.
 3. Check storm drain manholes and catch basins for proper construction. Pipes within the manholes and catch basins shall be broken off flush with the wall of structure and the end of the pipe grouted and brushed smooth.
 4. Look through the pipe to check alignment and to determine if pipe is free of debris.
 5. Check headwalls, end walls, and flared end sections. Pipe to be broken flush with face of the wall and grouted and brushed smooth.

Page 2

6. Right of way monuments shall be placed as required.
 7. Right of way to be graded to the proper slope and seeded and mulched before a final inspection can be made.
 8. Detention basins shall be completed and functioning.
 9. All erosion control measures shall be removed in stabilized areas and maintained in non-stabilized areas.
 11. Barricades shall be placed as required.
 12. The area from the back of the curb to the right of way is to remain clear of all obstructions other than those permitted by existing policies.
- G. The final inspection will be performed under the supervision of the City Engineer or his designee. It will be the Subdivision Inspector's responsibility to be familiar with the approved plan, revisions, variances, bond status, and all other administrative details related to the involved development.
- H. It will be responsibility of the Subdivision Inspector to ensure that all deficiencies are properly noted on the Project Inspection Report Form. The form will be completed and signed by the appropriate persons.
- I. The Subdivision Inspector will present a copy of the completed Project Inspection Report Form to the Developer (or his representative) and the Contractor upon completion of the final inspection, but no later than the next working day.
- J. After each inspection, the developer will have a thirty (30) day limit to correct the deficiencies noted on the Project Inspection Report Form. Otherwise a re-inspection will be scheduled the day after the time limit expires and an updated Project Report Form will be processed.
- K. It will be the responsibility of the subdivision developer to notify the Subdivision Inspector once the deficiencies noted on the aforementioned Project Inspection Report Form are corrected.
- L. It will be the responsibility of the Subdivision Inspector to ensure the deficiencies are corrected and in conformance with the approved plan, the Manual of Standard Designs and Details, or as noted on the Project Inspection Report Form. Once the Subdivision Inspector is satisfied that the deficiencies have been corrected, he will so notify the City Engineer.
- M. The Subdivision Inspector will distribute the Acceptance of Physical Improvements Form to the Public Works Director, City Engineer and the designated representative for Greenville Utilities Commission. Upon return receipt of these forms, the City Engineer will begin proceedings for continuous maintenance, approval of involved record plats, and release of posted bonds. Permanent record will be maintained by the Engineering Division.

ENGINEER'S CERTIFICATE OF COMPLETION

To: City of Greenville, Engineering Division

From: _____

Date: _____

RE: Certification of Completion

Name of Development: _____

Project No: _____

I, the undersigned, hereby certify:

- 1 That based upon my periodic inspection, the construction of the street(s) and storm drainage infrastructure for the referenced development has been completed in substantial accordance with the approved plans and specifications on record with the City of Greenville dated _____. (Any exceptions must be approved by the City Engineer.)

- 2 That street(s) and storm drainage infrastructure for the referenced development have been installed as shown on the Record Drawings submitted to the City of Greenville Engineering Division.

SIGNATURE OF PROFESSIONAL ENGINEER

DATE

COMPANY

LICENSE NO.

SEAL

OWNER'S CERTIFICATE OF COMPLETION

To: City of Greenville, Engineering Division

From: _____

Date: _____

RE: Certification of Completion

Name of Development: _____

Project No: _____

I, the undersigned, hereby certify:

1. That I am the owner/or authorized representative of the referenced project.
2. That the street(s) and storm drainage infrastructure for the referenced development are in accordance with the approved construction drawings dated _____ and/or subsequent plan modifications as approved by the City of Greenville.
3. That I hereby convey ownership, upon acceptance by the City of Greenville City Council, of all street(s), easements, and storm drainage infrastructure to the City of Greenville as called for on the Record Drawings prepared by _____
(Name of Consulting Engineering)
4. That I/we, as the developer(s), guarantee the materials and workmanship as directly associated with, but not necessarily limited to, the installation of the street(s), storm drainage infrastructure, and restoration of any disturbed areas located within the rights-of-way for a period of one (1) year that are proposed for acceptance and maintenance by the City of Greenville. For the one (1) year warranty period, I/we, as the developer(s), shall be responsible for performing all repairs and restoration, as deemed necessary or required by the City, on the street(s), storm drainage infrastructure, and disturbed areas. The one year period shall begin at the date the street(s) and storm drainage infrastructure is formally accepted by the City Council of Greenville. If, for any reason that I/we, as the developer(s), cannot make repairs within a time period accepted by the City of Greenville, we will reimburse the City of Greenville for the cost of any repairs it that it deems necessary to make with its own forces including the cost of materials, labor, and equipment.
5. I further warrant to the City that all fees and liens have been paid by the owner such that there is not outstanding indebtedness remaining and holding the City harmless in each instance.
6. That I hereby convey all necessary easements for the street(s) and storm drainage system to the City of Greenville as recorded with the Pitt County Register of Deeds and as described in Plat Book _____ Page _____.

NAME (PRINT)

DATE

SIGNATURE/TITLE

SEDIMENTATION AND EROSION CONTROL

SEDIMENTATION AND EROSION CONTROL

EROSION CONTROL GUIDE

ANY EROSION CONTROL DEVICES OR METHODS SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES – EROSION AND SEDIMENTATION CONTROL PLANNING AND DESIGN MANUAL AND ALL AMENDMENTS. THE EROSION CONTROL DEVICES AND METHODS THAT FOLLOW ARE SUPPLEMENTAL TO THE STATE MANUAL.

EROSION CONTROL NOTES:

1. Scheduling of a preconstruction conference with the Engineering Division is required prior to initiating land disturbing activities. For scheduling please call (252) 329-4467. A 24-hour notice is required. No person may initiate a land disturbing activity before notifying the city of the date of the land disturbing activity.
2. No land disturbing activity beyond that required to install appropriate erosion control may proceed until erosion control measures are inspected and approved by the City.
3. Seeding and mulching or otherwise providing ground cover devices or structures sufficient to restrain erosion for all exposed slopes is required with 21 working days of completing any phase of grading.
4. Contractor shall inspect and maintain all erosion control devices on a weekly basis and after each major storm event. Failure to maintain erosion control devices may result in an issuance of stop work order or civil penalties up to \$5,000 per day of violation. Sites utilizing sediment traps must also specify a maximum depth of sediment prior to clean out.
5. The City Engineer reserves the right to require additional erosion control measures should the plan or its implementation prove to be inadequate.
6. Acceptance and approval of this plan is conditioned upon your compliance with Federal and State water quality laws, regulations and rules. In addition, local City and County ordinances or rules may also apply to this land disturbing activity. Approval by the City does not supersede any other permit or approval.
 - A. Please be advised of the rules to protect and maintain existing buffers along watercourses in the Neuse and Tar River basins. These rules are enforced by the Division of Water Quality (DWQ). Direct any questions about the applicability of these rules to your project to the regional water quality supervisor, Washington Regional Office at (252) 946-6481.

SEEDING AND MULCHING:

(East Crimp) (8-19-08)

S-2

The kinds of seed and fertilizer, and the rates of application of seed, fertilizer, and limestone, shall be as stated below. During periods of overlapping dates, the kind of seed to be used shall be determined. All rates are in pounds per acre.

All Roadway Areas

March 1 – August 31 September 1 – February 28

50#	Tall Fescue	50#	Tall Fescue
10#	Centipede	10#	Centipede
25#	Bermudagrass (hulled)	35#	Bermudagrass (hulled)
500#	Fertilizer	500#	Fertilizer
4000#	Limestone	4000#	Limestone

Waste and Borrow Locations

March 1 – August 31

September 1 – February 28

75#	Tall Fescue	75#	Tall Fescue
25#	Bermudagrass (hulled)	35#	Bermudagrass (unhulled)
500#	Fertilizer	500#	Fertilizer
4000#	Limestone	4000#	Limestone

Note: 50# of Bahiagrass may be substituted for either Centipede or Bermudagrass only upon Engineer's request.

Approved Tall Fescue Cultivars

2 nd Millennium	Duster	Magellan	Rendition
Avenger	Endeavor	Masterpiece	Scorpion
Barlexas	Escalade	Matador	Shelby
Barlexas II	Falcon II, III, IV & V	Matador GT	Signia
Barrera	Fidelity	Millennium	Silverstar
Barrington	Finesse II	Montauk	Southern Choice II
Biltmore	Firebird	Mustang 3	Stetson
Bingo	Focus	Olympic Gold	Tarheel
Bravo	Grande II	Padre Titan Ltd	
Cayenne	Greenkeeper	Paraiso	Titanium
Chapel Hill	Greystone	Picasso	Tomahawk
Chesapeake	Inferno	Piedmont	Tacer
Constitution	Justice	Pure Gold	Trooper
Chipper	Jaguar 3	Prospect	Turbo
Coronado	Kalahari	QuestUltimate	
Coyote	Kentucky 31	Rebel Exeda	Watchdog
Davinci	Kitty Hawk	Rebel Sentry	Wolfpack
Dynasty	Kitty Hawk 2000	Regiment II	
Dominion	Lexington	Rembrandt	

On cut and fill slopes 2:1 or steeper Centipede shall be applied at a rate of 5 pounds per acre and add 20# of Sericea Lespedeza from January 1 – December 21.

Fertilizer shall be 10-20-20 analysis. A different analysis of fertilizer may be used provided the 1-2-2 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as a 10-20-20 analysis and as directed.

All areas seeded and mulched shall be tacked with asphalt. Crimping of straw in lieu of asphalt tack shall not be allowed on projects.

CRIMPING STRAW MULCH:

Crimping shall be required projects adjacent to any section of roadway where traffic is to be maintained or allowed during construction. In areas within six feet of the edge of pavement, straw is to be applied and then crimped. After the crimping operation is complete, an additional application of straw shall be applied and immediately tacked with a sufficient amount of undiluted emulsified asphalt.

Straw mulch shall be sufficient length and quality to withstand the crimping operation.

Crimping equipment including power source shall be subject to the approval of the Engineer providing that maximum spacing of crimper blades shall not exceed 8".

STORM DRAINAGE DESIGN

Item # 8

STORM DRAINAGE DESIGN

STORM DRAINAGE DESIGN REQUIREMENTS

In order that the Engineering Department may adequately review preliminary plats, construction plans and stormwater management plans, the following items should be indicated or accounted for on all plans submitted for approval:

- D-1 All storm drainage facilities shall comply with the requirements as stated in the Stormwater Management Program for the City of Greenville and the North Carolina Division of Water Quality Stormwater Best Management Practices Manual.
- D-2 Storm drainage pipes to be designed for a 10-year storm (post development), catch basins to be designed for a 2-year storm (post development).
- D-3 Minimum storm drainage size is 15 inches.
- D-4 Double basins are permitted.
- D-5 Minimum allowable velocity is 2.5 feet per second for concrete pipe or corrugated metal pipe. Maximum velocity is 10 feet per second within a system. Exiting velocities shall be in conformance with the Sedimentation and Erosion Control Ordinance of the City of Greenville or the latest version thereof.
- D-6 Drainage pipes which are located parallel or near parallel to public streets shall be contained within street rights-of-way. If this is not possible, dedicated storm drainage easements shall be required as defined on STD. NO. 15.01.a.
- D-7 In cases where two ditches intersect at perpendicular or obtuse angles, erosion control measures must be indicated.
- D-8 Headwalls or flared end pipe will be required at the influent and effluent of all pipe systems.
- D-9 Indicate all ditch sections with centerline elevations at least every 50' and cross sections if there is a significant change in the profile.
- D-10 Indicate topography, ditches, pipes, swales, and drainage easements which are adjacent to the proposed project.
- D-11 Catch basins shall be placed such that the depth of flow in the gutter is based on allowable spread. Spread shall be 8' on all city streets. Maximum depth of flow in the curb and gutter for all streets shall never exceed 6".

GENERAL NOTES:

~~1. FOR STREAMS CARRYING 500 ACRES OR MORE OF SURFACE RUNOFF, THE EASEMENT REQUIREMENT IS TO BE THE WIDTH OF THE STREAM FROM TOP OF BANK TO TOP OF BANK, PLUS (+) 10' ON EACH SIDE OF STREAM. (45' MINIMUM WIDTH)~~

1.X FOR OPEN CHANNELS THE MINIMUM EASEMENT MUST CONTAIN THE WIDTH OF THE STREAM FROM TOP OF BANK TO TOP BANK, PLUS (+) 10' ON EACH SIDE OF STREAM.

2.X WIDER EASEMENT WIDTHS MAY BE REQUIRED FOR PIPE DEPTHS GREATER THAN ~~TEN~~ FEET. EIGHT

3.X PIPE SYSTEMS AND OPEN CHANNELS ON PRIVATE PROPERTY SHALL BE PLACED IN A STORM DRAINAGE EASEMENT.

conveying stormwater from multiple properties

Easement Requirements for Open Storm Drainage Channels

Area in Acreage	Easement Requirement
0-45 ac.	20'
45-120 ac. or 1/2'	30'
120-500 ac.	40'
500 ac +	see note

Easement Requirements for Storm Drain Pipe

Pipe Size	Easement Requirement
15"	15'
18"	15'
24"	15'
30"	20'
36"	20'
42"	25'
48"	25'
54"+	30' MIN (VARIES)

NOT TO SCALE

MINIMUM DRAINAGE EASEMENT REQUIREMENTS FOR STORM DRAIN PIPES AND OPEN CHANNELS

310 02 180
13.01A

D-12 Will all storm drainage designs, the following design data must be submitted for each run of pipe.

- a. Area drained
- b. Design storm intensity adjusted for duration
- c. Design flow
- d. Coefficient of runoff
- e. Grade of pipe
- f. Type of pipe
- g. Size of pipe
- h. Velocity of flow
- i. Maximum capacity
- j. Hydraulic grade lines

D-13 Not more than one acre may drain in the street at a single concentrated point.

D-14 Slotted drains are permissible (STD. NO. 25.03) with prior approval of the Engineering Division.

D-15 The minimum grade for any storm drainage pipe shall be 0.3%. In the event that this requirement cannot be met, the City Engineer may approve an alternate provided the minimum velocity of 2.5 ft/sec is met.

D-16 Any storm drainage system to be city-maintained shall have "Record Drawings" submitted and approved prior to scheduling a pre-final street acceptance inspection. All "Record Drawings" for storm drainage infrastructure shall include, but not necessarily limited to, the information as identified in the *Street and Storm Drainage "Record Drawings" Submittal Requirements*.

D-17 Maximum distance between manholes/boxes shall be ~~300'~~ ^{300'}.

REQUIREMENTS FOR INSTALLATION OF REINFORCED CONCRETE PIPE

1. AASHTO Designation M86 (or the latest revision) shall apply to all reinforced concrete pipe.

2. All pipe installed within the street right-of-way shall be Class III or higher.
3. The appropriate sealant shall be applied to both inside and outside of joints of pipe 24" in diameter and larger. Joints shall be wiped smooth.
4. A roughness coefficient of 0.013 ("n" factor) shall be used in the design of reinforced concrete pipe drainage systems.

REQUIREMENTS FOR INSTALLATION OF CORRUGATED METAL PIPE

1. AASHTO Designation M196 or the latest revision thereof shall apply.
2. All corrugated metal pipe shall be aluminum unless coating of steel pipe is approved by the City Engineer.
3. Coupling bands shall be used at all joints and shall be of a size specified by the manufacturer in accordance with the pipe design. Bands shall conform to AASHTO Designation M196. Bands to be of Hugger-Type or approved equal.
4. Pipes shall meet the NC-DOT specifications for loading requirements.
5. A roughness coefficient of 0.024 ("n" factor) shall be used in the design of corrugated metal pipe drainage systems.

COMPACTION AND BACKFILLING

Compaction for reinforced concrete pipe and corrugated metal pipe to be in accordance with NC-DOT Standard Specifications for Roads and Structures.

STORM WATER DESIGN CALCULATIONS

RUNOFF DETERMINATION:

There are two acceptable methods: (1) Rational Method (good for areas less than 20 acres and minor design systems) and (2) Soil Conservation Service Method using Curve Numbers.

DETERMINATION OF DISCHARGE:

The most widely used method for determining discharge in storm drainage is the Rational Method and shall be the method used for the purpose of this manual. It should be noted, however, that this method should be used with caution since it does not adequately recognize all of the complications of the runoff process. The basic formula may be reduced to "Q=CIA", where:

Q = Discharge, in cubic feet per second.

C = "Runoff" coefficient, unitless

I = Intensity of rainfall, inches per hour

A = Drainage basin area, acres.

These factors are explained in detail in the following paragraphs.

C.....RUNOFF COEFFICIENT

The runoff coefficient is the proportion of the total rainfall which runs off the basin area into the drainage system. The runoff coefficients to be used for the Greenville area are listed on Chart No. SD-3.

I.....INTENSITY

Values for the rainfall intensity for the Greenville area may be derived from Chart No. SD-1 and SD-2. The design procedures for runoff for the City of Greenville shall be based on a 10-year rainfall and the time of concentration (Tc).

$$T_c = [(L^3/H)^{0.385}]/128$$

L = Maximum length of travel time of water (feet)
H = Difference in elevation between the most remote point on the basin and the outlet (feet)

- NOTES: Overland flow, grass, multiply Tc by 2.
Overland Flow, concrete or asphalt, multiply Tc by 0.4
Concrete channel, multiply Tc by 0.2

A.....DRAINAGE BASIN AREA

The drainage basin area can be calculated with the use of topographic maps by marking the basin ridgeline and planimentering the designated areas. When marking the basin ridgeline, it should be remembered that water runoff flows perpendicular to contour lines.

Q.....DISCHARGE

After determining the coefficient of runoff, rainfall intensity, and drainage basin area; the discharge can be computed by the use of rational formula "Q=CIA".

CATCH BASIN DESIGN

DESIGN PROCEDURE:

The following procedure for the location and design of catch basins for the City of Greenville is based on the actual hydraulic characteristics of the standard catch basin for the City as depicted in Chart No. SD-4. Catch basin design shall be based on a t-year storm. Double basins are permitted. The catch basin data sheets, Chart SD-5 or approved equivalent shall be completed and submitted with each plan.

1 – DETERMINE DRAINAGE LIMITS:

The drainage limits should be calculated by the use of topographic maps by marking the basin ridgeline. It should be noted that the centerline of the streets will usually represent a ridgeline on a normal crown.

2 – DETERMINE DEPTH OF FLOW:

The depth of flow allowed is the depth of the water in the gutter line which will be tolerated in flooding conditions.

3 – DETERMINE LONGITUDINAL SLOPE (S_L) OF THE STREET:

Determine the slope of the street in percent.

4 - DETERMINE TRANSVERSE SLOPE (S_T) OF THE STREET:

This can be determined from the typical section of the street and will usually consist of the vertical distance from the gutter line to the crown of the street divided by the horizontal distance from the gutter line to the crown of the street.

5 - DETERMINE CAPACITY OF THE BASIN:

The capacity of the basin can be determined by the chart on Chart No. SD-4. Enter the bottom of the chart with the transverse slope and draw a vertical line to the longitudinal slope. Then, using this as a turning point, draw a horizontal line to intersect the "K" factor. Then use the equation:

$$Q = KD^{1.67}, \text{ where:}$$

Q = the capacity of the basin in cubic feet per second

K = a dimensionless factor determined from said chart

D = the depth of flow in the gutter line in feet

With this information, complete columns 1, 2, 3, and 4 of the catch basin design data sheet (Chart SD-5).

6 – DETERMINE AREA SERVED BY THE BASIN:

STEP NO. 1: Assume a trial coefficient and a trial intensity for the design area and place these figures in columns 5 and 6 of the data sheet. At this point, an approximate area served by the catch basin may be determined by dividing the catch basin capacity by the trial coefficient of runoff and the trial intensity (column 5 x column 6). This derived area should be placed in column 7 in the design data sheet. This gives an approximate area served by the catch basin. With this area and topographic lines, a trial location of the proposed basin should be made.

STEP NO. 2: To insure that the location as derived in Step No. 1 is appropriate and that the trial coefficient of runoff and trial intensity are in order, the runoff for the area determined by the proposed location of the basin should be calculated. This is accomplished by calculating the runoff as established in the storm water design procedures listed in the previous section and completing columns 8 through 13. If column 13 varies by more than 10% from column 7, this would indicate that the trial coefficient and/or trial intensity were not in line with the actual coefficient and intensity, and therefore, the basin is not properly located. The procedure in Step No. 1 should then be repeated and then adjust the trial coefficient of runoff (col. 5) and trial intensity (col. 6) accordingly. Once all the basins have been properly located, the pipe design associated with the basins may be completed according to the PIPE SYSTEM DESIGN PROCEDURES listed in this chapter.

CULVERT DESIGN

DESIGN PROCEDURE:

There are two steps in storm drainage design. The first step is to determine the amount of water discharged at the point of design. This can be accomplished by using the "Storm Water Design" section of this manual. The second step is the actual selection of a size for the structure, based on the calculated discharge.

DETERMINE OF STRUCTURE SIZE:

There are essentially two types of control which must be considered in every culvert design situation: inlet control and outlet control. Both types of control must be considered separately in the design of culverts.

INLET CONTROL:

Inlet control exists in cases where the culvert is not flowing full. The inlet control charts (SD-a through SD-f) have headwater depth as the controlling criteria. Headwater depth is the depth of the water on the upstream side of the culvert, expressed in diameters of the pipe under study.

The maximum allowable headwater is limited by either the controlling flood elevation or existing or proposed development. However, the maximum headwater depth should not exceed 1.2 times the open height of the culvert for a 10-year storm.

OUTLET CONTROL:

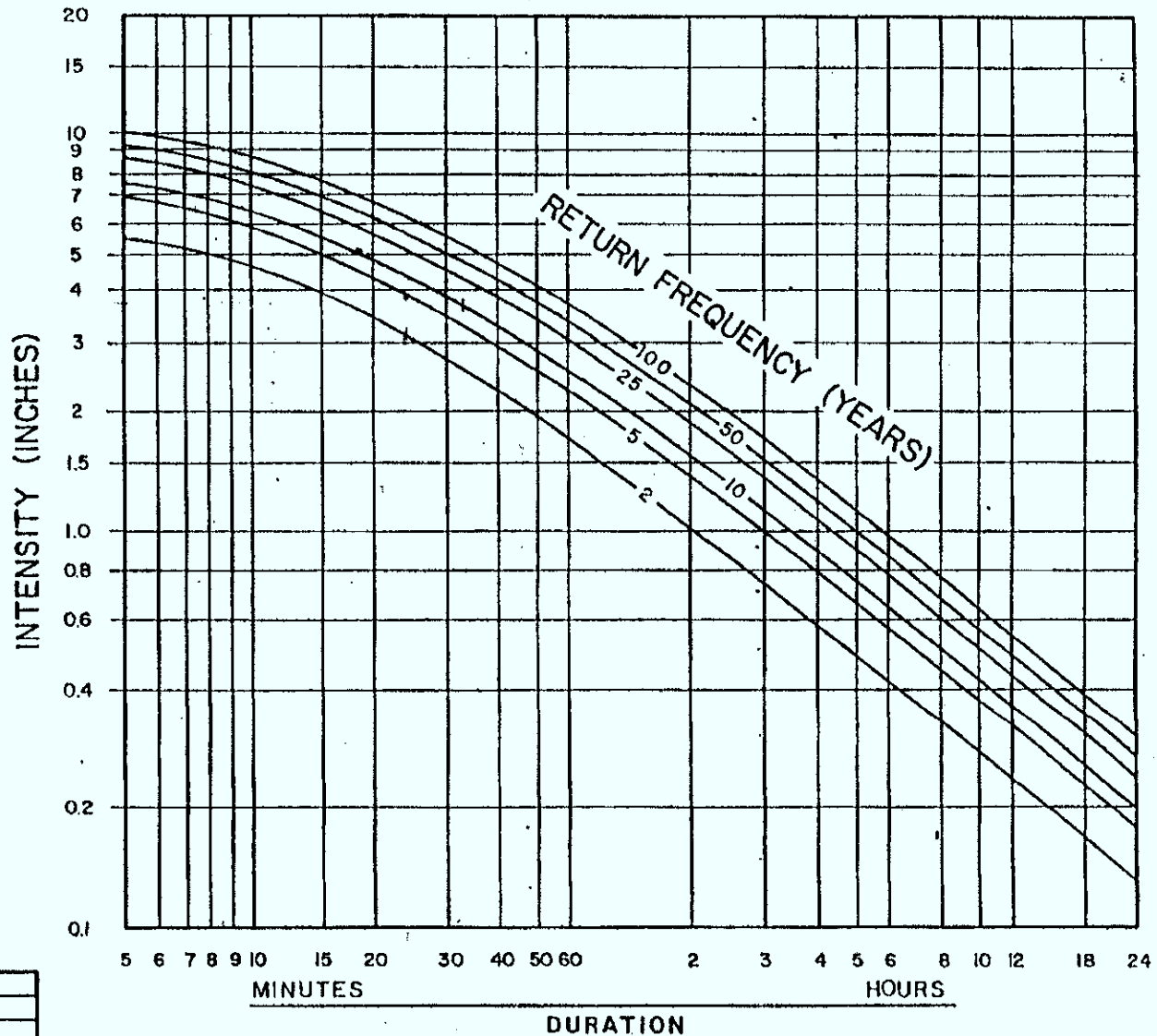
Outlet control exists in cases where the culvert is flowing full. Before using the outlet control charts (SD-g through SD-m), it is necessary to determine the coefficient of entrance loss "Ke". These values are found in the coefficient of entrance loss table on Chart No. SD-7.

A controlling criteria for outlet control is tailwater depth, which is represented in the tables by the amount of "head". Head is the difference in elevation of the water surface on the upstream side of the culvert and the downstream water surface. The tailwater elevation is determined by downstream conditions and may be calculated if these conditions are known. In any case, the tailwater elevation will not be below the design year flood elevation at the outlet. If flood data is not available, the assumption may be made that the tailwater elevation is the crown of the culvert.

PIPE SYSTEM DESIGN

Once all the catch basins have been located according to the catch basin design procedures, the next step is to design the pipe systems to serve the basins. For the purpose of this manual and for the City of Greenville, pipes within the system shall be designed to carry a 10-year storm (post development). The sizing of these pipes shall be based on the Manning Equation. It should be noted that the velocities for the pipes shall be maintained between 2.5 feet per second and 10 feet per second. In addition, points of discharge should be treated in such a manner to conform with the State and local ordinances on velocity controls. This design is based on the sum of the individual areas served by the catch basins and not the sum of the capacities of each basin. The Storm Drainage Design Data Sheet, Chart SD-6, or an approved equivalent, should be completed and submitted with each plan.

CHART SD-1



REVISIONS		
NO.	DATE	DESCRIPTION

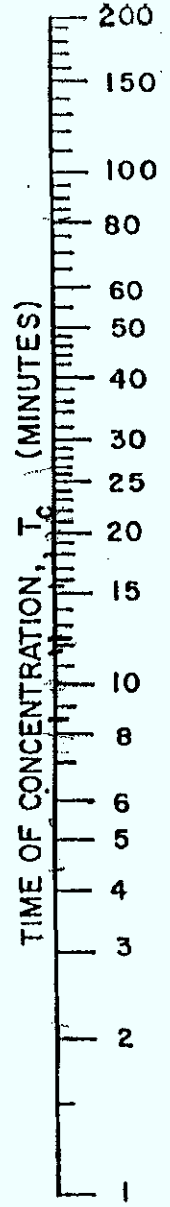
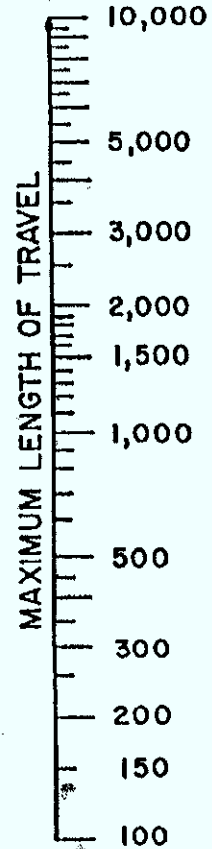
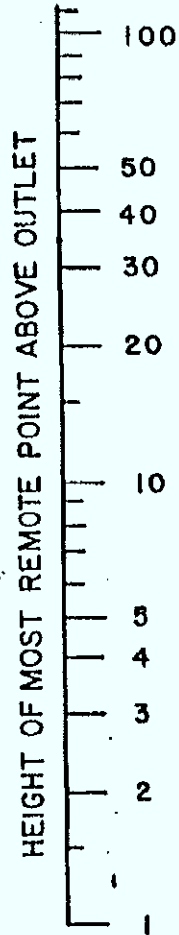
NOTE: ASSUME TIME OF CONCENTRATION EQUALS DURATION

APPROVED: DATE May 8, 1980

RAINFALL INTENSITY VS. DURATION
CITY OF GREENVILLE, N.C.—ENGINEERING DEPT.

STD. NO.	REV.
1512	

CHART SD-2



USE NOMOGRAPH T_c FOR NATURAL BASINS WITH WELL DEFINED CHANNELS FOR OVERLAND FLOW ON BARE EARTH, AND FOR MOWED GRASS ROADSIDE CHANNELS.

FOR OVERLAND FLOW, GRASSED SURFACES, MULTIPLY T_c BY 2.

FOR OVERLAND FLOW, CONCRETE OR ASPHALT SURFACES, MULTIPLY T_c BY 0.4

FOR CONCRETE CHANNELS, MULTIPLY T_c BY 0.2

$$T_c = \left(\frac{L^3}{H} \right)^{0.385} / 128$$

REVISIONS

NO.	DATE	DESCRIPTION

APPROVED: DATE May 8, 1980

RUNOFF COEFFICIENTS

LAWNS:	(1) SANDY SOILS	FLAT < 2%	0.10
		AVERAGE 2% - 7%	0.15
		STEEP > 7%	0.20
(2) HEAVY SOILS	FLAT < 2%	0.15	
	AVERAGE 2% - 7%	0.20	
	STEEP > 7%	0.30	

WOODS, CEMETERIES, PARKS	0.20
UNIMPROVED AREAS (PASTURE, WADP, ETC.)	0.25
PLAYGROUNDS	0.30

RESIDENTIAL:	(1) APARTMENTS AND TOWNHOUSES	0.70
	(2) LOT SIZE < 1/4 ACRE (R-6, R-9)	0.60
	(3) LOT SIZE < 1/3 ACRE (R-15)	0.55
	(4) LOT SIZE < 1/2 ACRE (R-20)	0.50
	(5) LOT SIZE < 1.0 ACRE	0.40
	(6) LOT SIZE > 1.0 ACRE	0.35

INDUSTRIAL:	(1) LIGHT	0.70
	(2) HEAVY	0.80

COMMERCIAL:	(1) DOWNTOWN, STRIP, MALL, PAVEMENT AREAS	0.95
	(2) CENTER	0.90
	(3) NEIGHBORHOOD	0.85

ROOF: 0.95
 PAVEMENT: (1) Asphalt or concrete 0.90
 (2) Brick 0.80
 GRAVEL: 0.30

Keep 3 Categories.

REVISIONS		
NO.	DATE	DESCRIPTION

CHART SD-3

APPROVED: DATE May 8, 1980

RUNOFF COEFFICIENTS

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

STD. NO.	REV.
1514	

Item # 8

CAPACITY OF BASIN =

$$Q = K D^{5/3}$$

WHERE:

Q = C.F.S.

D = Depth of gutter flow
in feet

"K"

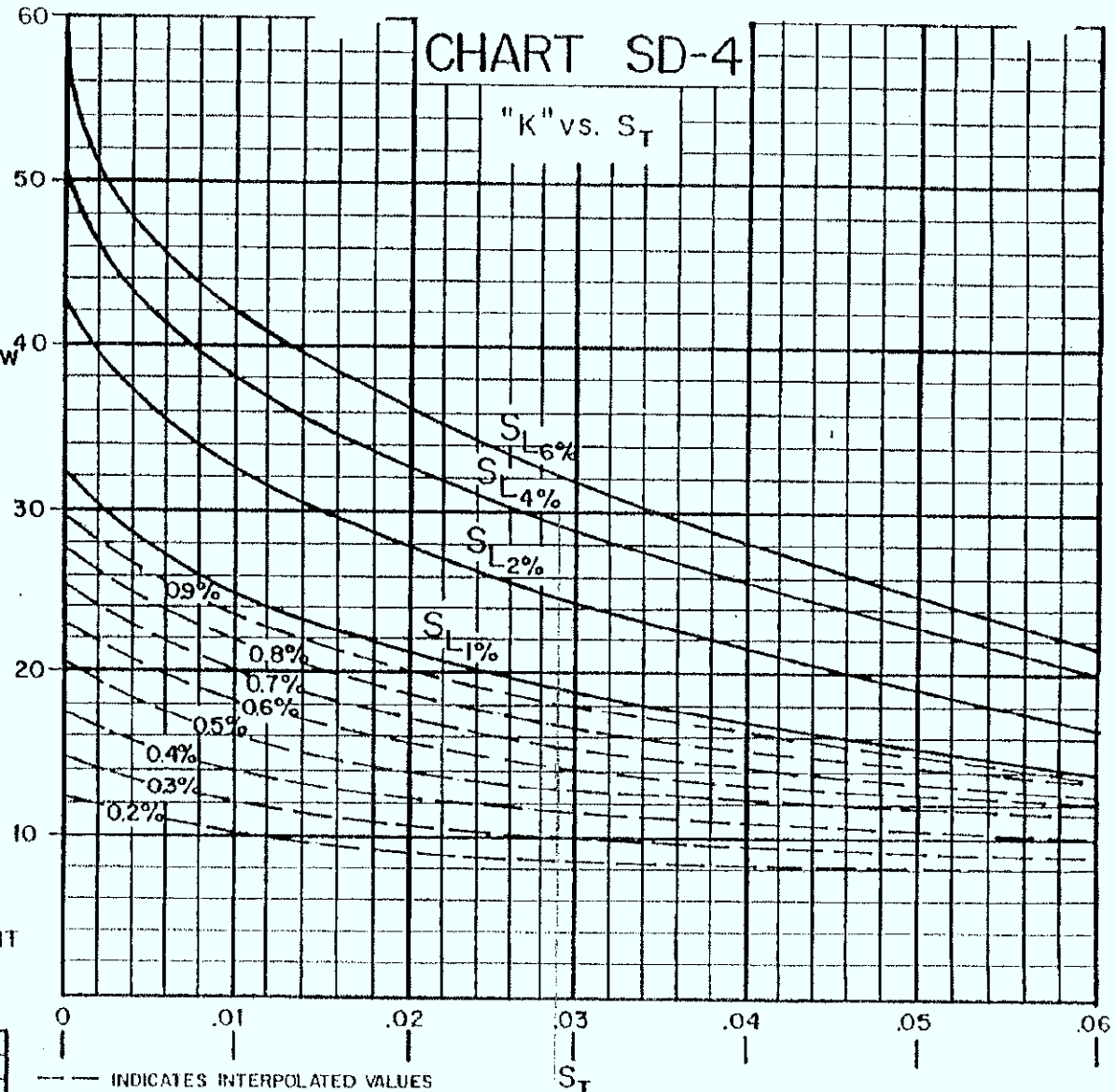
S_L = LONGITUDINAL GUTTER
SLOPE

S_T = TRANSVERSE GUTTER
SLOPE

K = GRATE INLET COEFFICIENT

CHART SD-4

"K" vs. S_T



--- INDICATES INTERPOLATED VALUES
 S_T = VERTICAL DISTANCE FROM CROWN TO GUTTER LINE DIVIDED BY DISTANCE FROM CREST OF ROADWAY (USUALLY $\frac{1}{2}$) TO GUTTER LINE.

REVISIONS		
NO.	DATE	DESCRIPTION

APPROVED: DATE May 8, 1980

STANDARD CATCH BASIN INLET CAPACITY

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

Item # 8

STD. NO.	REV.
15.15	

CATCH BASIN DESIGN DATA SHEET

PROJECT _____ COMPUTED BY _____ DATE _____, 19____
 LOCATION _____ CHECKED BY _____ DATE _____, 19____
 STORM FREQUENCY _____ YEARS

CATCH BASIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	REMARKS (COLUMN 13 MUST BE W/N 10% OF COLUMN 7)
	LONGITUDINAL STREET GRADE (SL) %	TRANSVERSE STREET GRADE (ST)	MAX. DEPTH OF FLOW IN GUTTER (FT.)	CAPACITY OF BASIN (C.F.S.) $Q = K D^{5/3}$	TRIAL COEF. OF RUNOFF	TRIAL INTENSITY (in)	DERIVED AREA $= \frac{4}{5 \times 6}$	LENGTH OF DRAINAGE AREA	HEIGHT ABOVE MOST REMOTE POINT	COEF OF RUNOFF	TIME OF CONCENTRATION (to)	ACTUAL INTENSITY (in)	MAX. ALLOWABLE DRAINAGE AREA $= \frac{10 \times 12}{4}$	

REVISIONS

NO.	DATE	DESCRIPTION

CHART SD-5

APPROVED: DATE May 8, 1980

CITY OF GREENVILLE, N.C. -- ENGINEERING DEPT.
 Item # 8

STD. NO.	REV.
15.16	

STORM DRAINAGE DESIGN DATA SHEET

PROJECT _____ DESIGNED BY _____ DATE _____, 19 _____
 LOCATION _____ CHECKED BY _____ SHEET _____ OF _____
 STORM FREQUENCY _____ YEAR

LOCATION		AREA (ACRE)		C	INTENSITY			Q-CIA (C.F.S. REQD)	PIPE DATA						REMARKS
FROM	TO	SUB TOTAL	TOTAL		H	L	I		TYPE	N	S%	LENGTH	SIZE	VEL. (OF Q REQD)	

REVISIONS		
NO.	DATE	DESCRIPTION

C - RUNOFF COEFFICIENT
 H - HEIGHT ABOVE INLET OF MOST REMOTE POINT
 L - LENGTH OF DRAINAGE AREA
 I - INTENSITY OF STORM (INCHES)
 N - COEFFICIENT OF FRICTION
 S - SLOPE (%)
 Q - FLOW (C.F.S.)

NOTE: DESIGN IS BASED ON
 THE SUM OF THE AREAS
 AND NOT THE SUM OF
 THE DISCHARGES.

CHART SD-6

APPROVED: DATE May 8, 1980

STD. NO.	REV.
15.17	

COEFFICIENT OF ENTRANCE LOSS, "Ke"

TYPE OF STRUCTURE AND DESIGN OF ENTRANCE	COEFFICIENT Ke:
Pipe, Concrete	
Projecting from fill	0.5
Headwall or headwall and wingwalls	0.5
Mitered to conform to fillslope	0.7
Pipe or Pipe-Arch, Corrugated Metal	
Projecting (no headwall)	0.9
Headwall or headwall and wingwalls	0.5
Mitered to conform to fillslope	0.7
Box Reinforced Concrete	
Headwall	0.5
Wingwall at 30 degrees to 75 degrees to barrel	0.4
Wingwalls at 10 degrees to 25 degrees to barrel	0.5

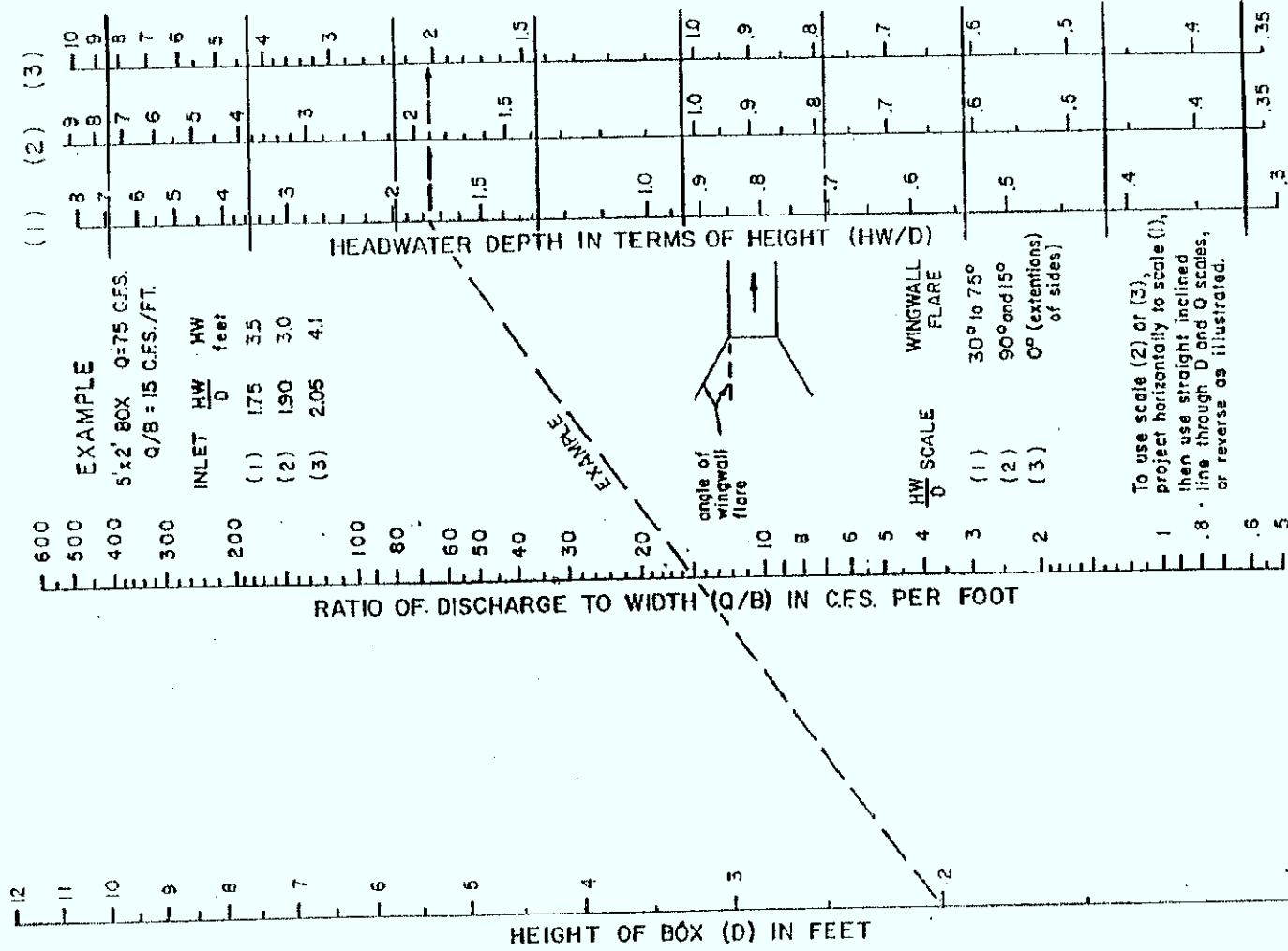
REVISIONS

NO.	DATE	DESCRIPTION

CHART SD-~~11~~7

APPROVED: DATE May 8, 1980

CHAR SD-a



EXAMPLE
5'x2' BOX Q=75 C.F.S.
Q/B = 15 C.F.S./FT.

INLET	HW/D	HW feet
(1)	1.75	3.5
(2)	1.90	3.0
(3)	2.05	4.1

To use scale (2) or (3), project horizontally to scale (1), then use straight inclined line through D and Q scales, or reverse as illustrated.

REVISIONS		
NO.	DATE	DESCRIPTION

HEADWATER DEPTH FOR BOX CULVERTS WITH INLET CONTROL

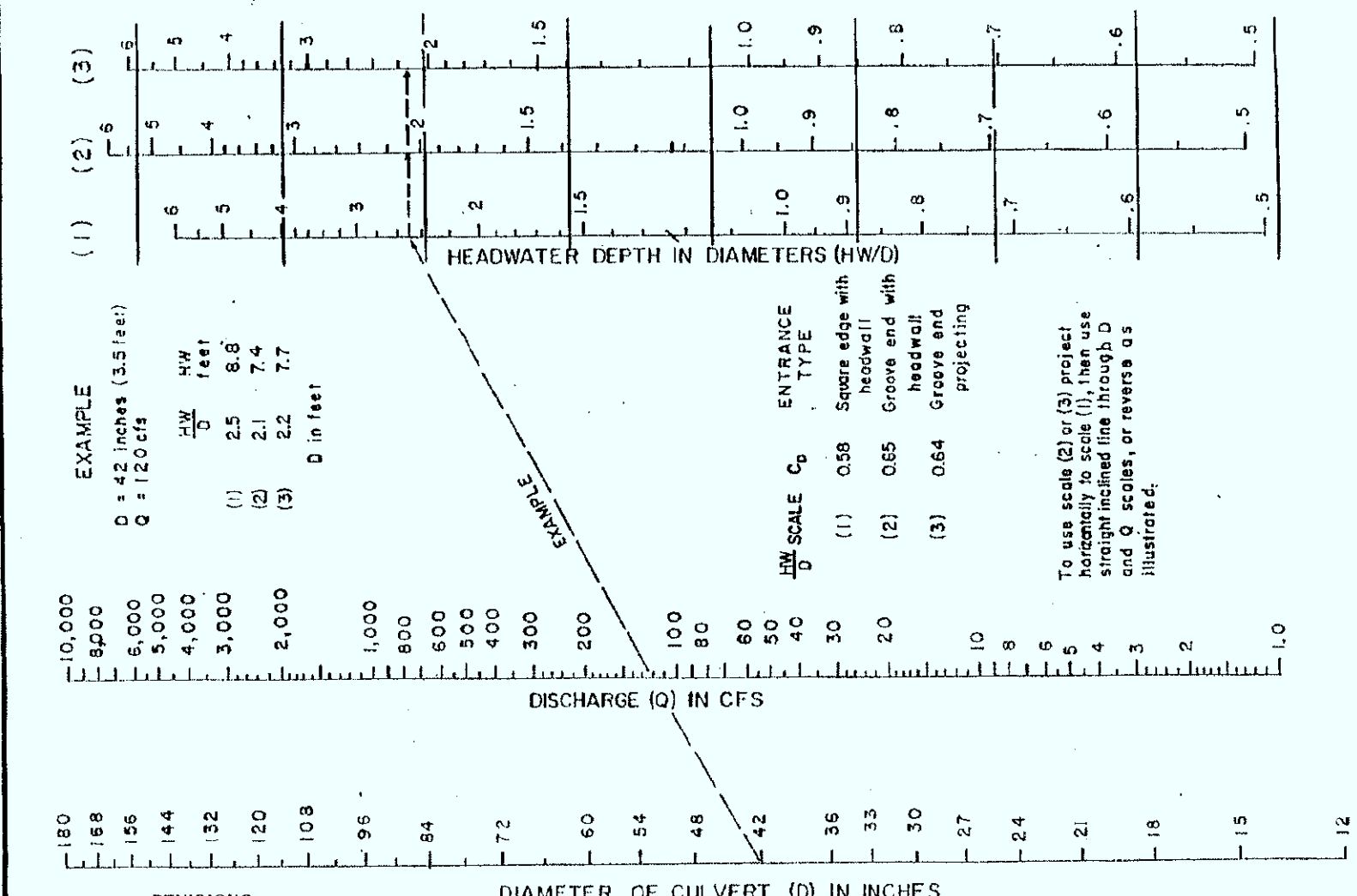
APPROVED: DATE May 8, 1980

CULVERT DESIGN - INLET CONTROL
CITY OF GREENVILLE, N.C. - ENGINEERING DEPT.

Item # 8

STD. NO.	REV.
15.23	

CHA SD-b



REVISIONS		
NO.	DATE	DESCRIPTION

DIAMETER OF CULVERT (D) IN INCHES

HEADWATER DEPTH FOR
 CONCRETE PIPE CULVERTS
 WITH INLET CONTROL

APPROVED: DATE May 8, 1960

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

Item # 8

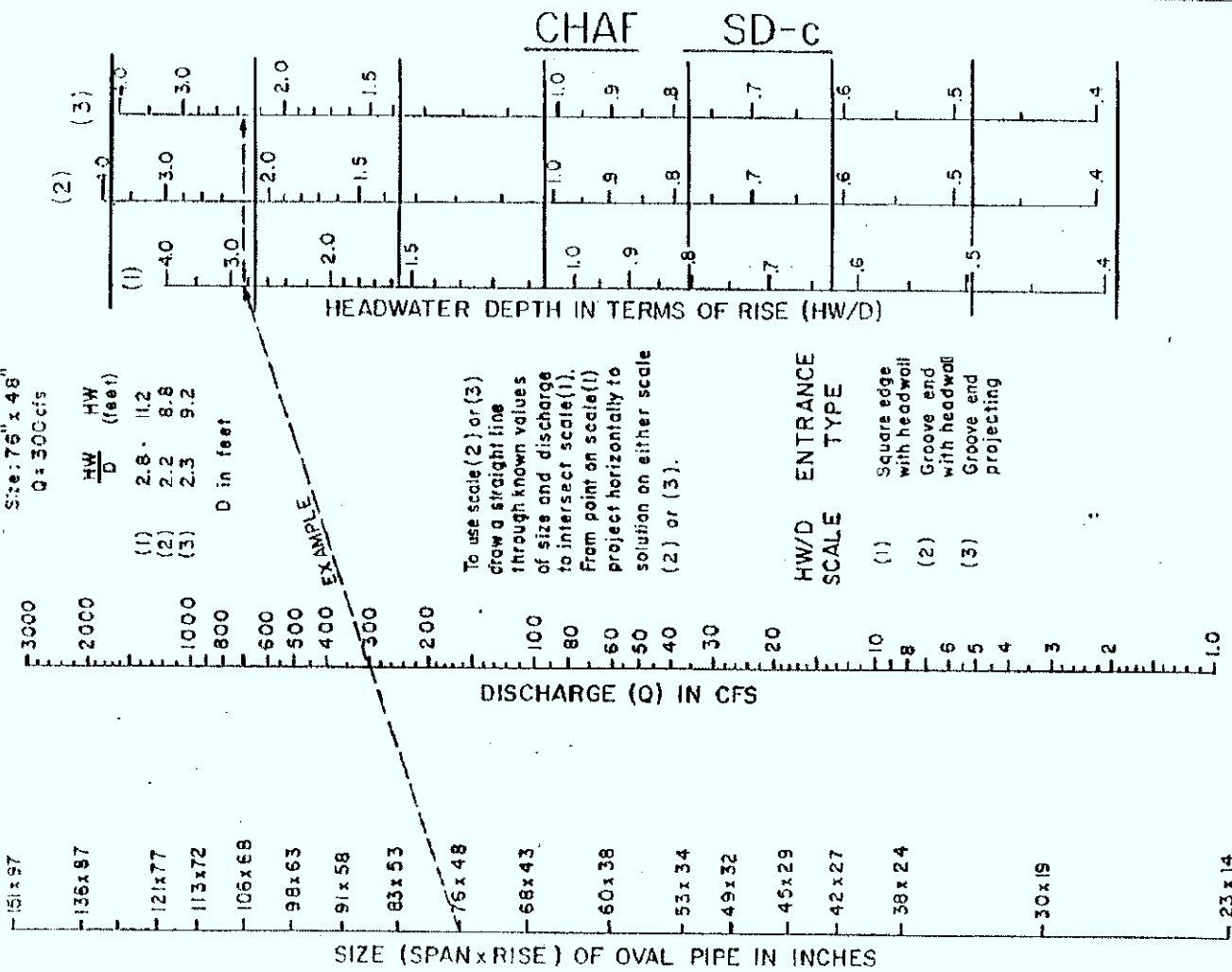
STD. NO.	REV.
15.24	

HEADWATER SCALES 283
 REVISED MAY 1964

BUREAU OF PUBLIC ROADS — JAN. 1963

REVISIONS		
NO	DATE	DESCRIPTION

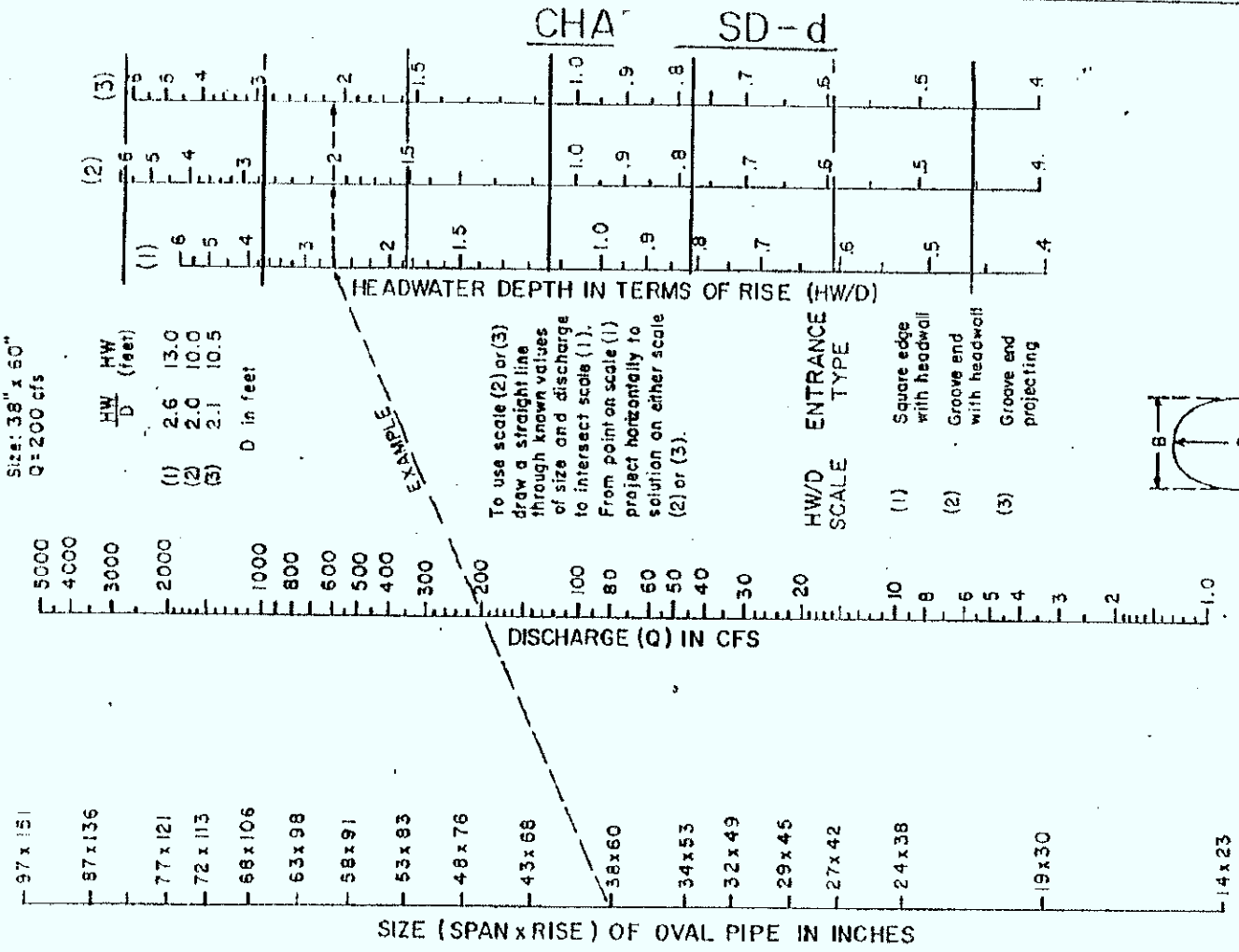
HEADWATER DEPTH FOR
 OVAL CONCRETE PIPE CULVERT'S
 LONG AXIS HORIZONTAL
 WITH INLET CONTROL



BUREAU OF PUBLIC ROADS - JAN. 1963

APPROVED: DATE May 6, 1960

REVISIONS		
NO.	DATE	DESCRIPTION

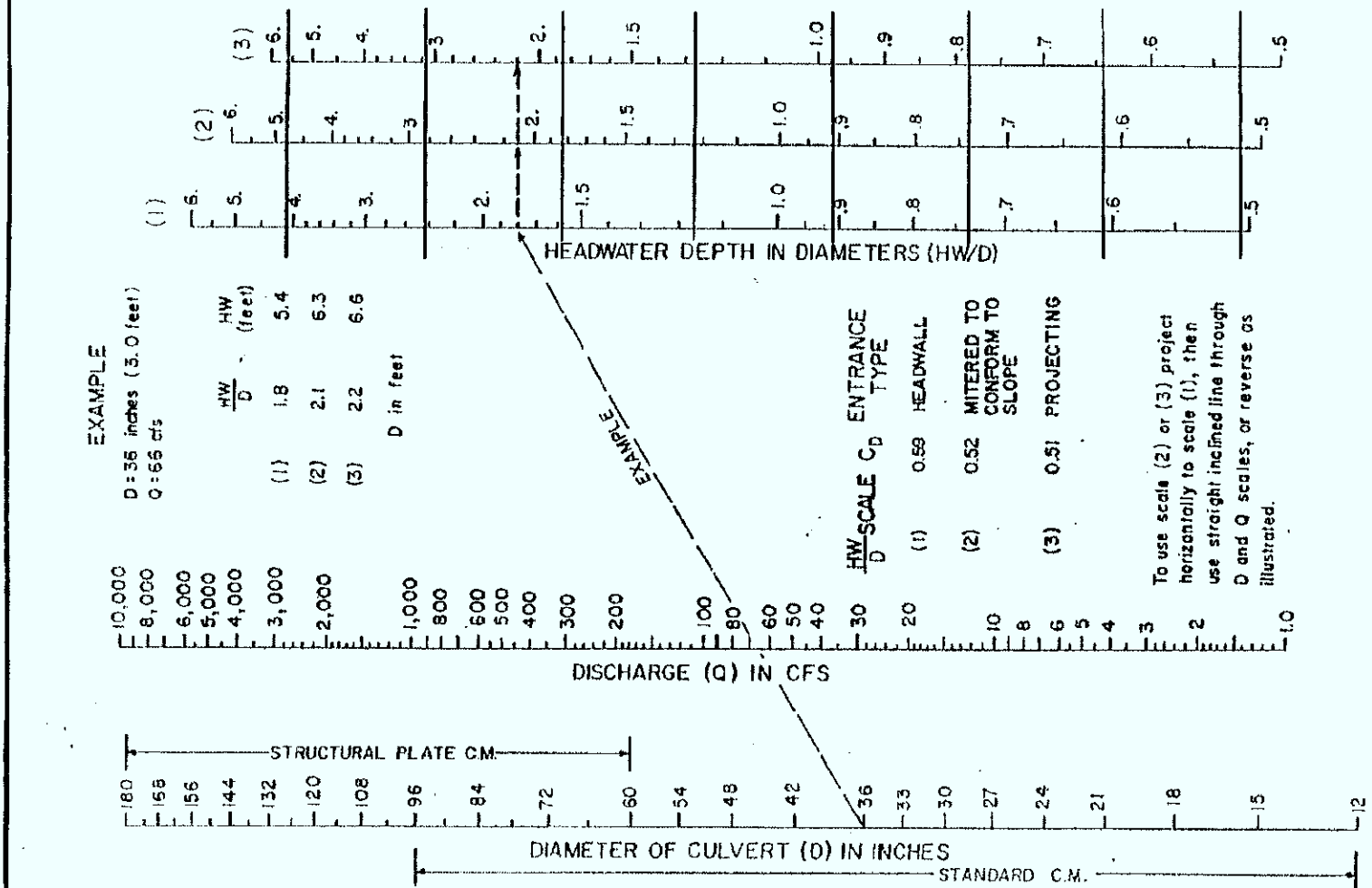


HEADWATER DEPTH FOR
OVAL CONCRETE PIPE CULVERTS
LONG-AXIS VERTICAL
WITH INLET CONTROL

BUREAU OF PUBLIC ROADS--JAN. 1963

APPROVED: DATE May 9, 1960

STD. NO.	REV
15 26	



REVISIONS		
NO.	DATE	DESCRIPTION

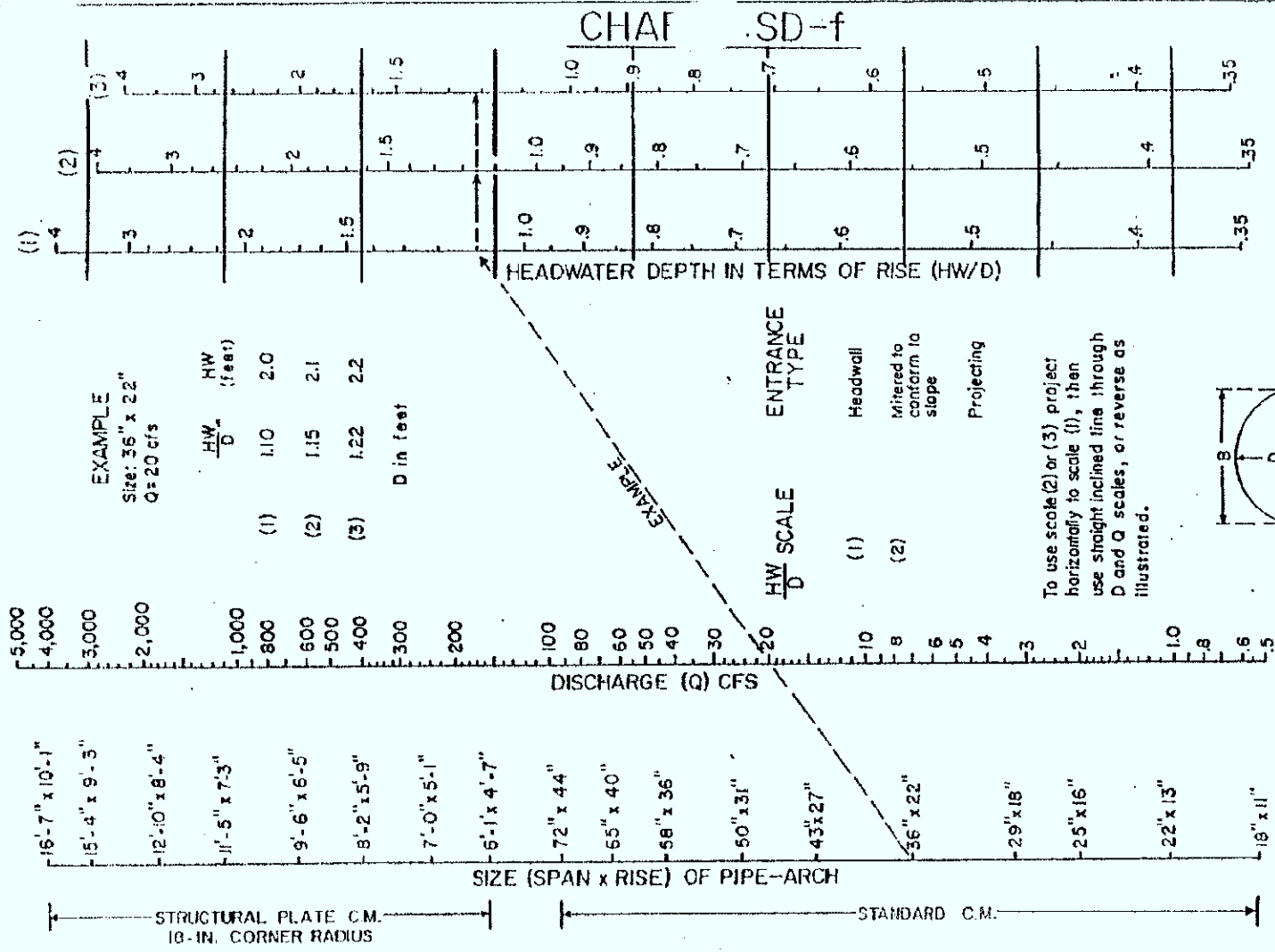
HEADWATER DEPTH FOR
C.M. PIPE CULVERTS
WITH INLET CONTROL

APPROVED: DATE May 8, 1960

REVISIONS		
NO.	DATE	DESCRIPTION

HEADWATER DEPTH FOR
C.M. PIPE-ARCH CULVERTS
WITH INLET CONTROL

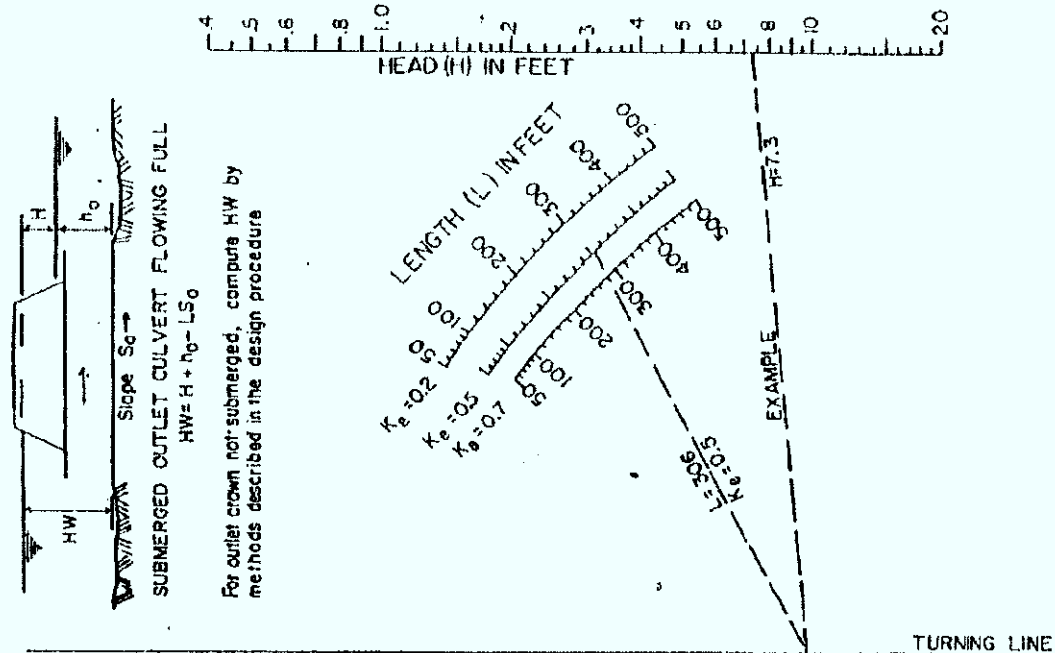
APPROVED: DATE May 8, 1980



ADDITIONAL SIZES NOT DIMENSIONED ARE LISTED IN FABRICATOR'S CATALOG

BUREAU OF PUBLIC ROADS — JAN. 1963

CHAR. SD-g



HEAD (H) IN FEET

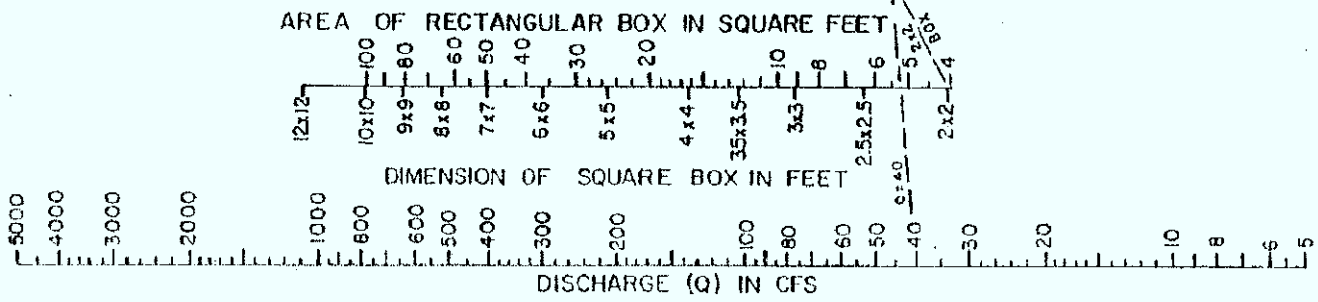
LENGTH (L) IN FEET

$K_e = 0.2$
 $K_e = 0.5$
 $K_e = 0.7$

EXAMPLE

$L = 306$
 $K_e = 0.5$

TURNING LINE

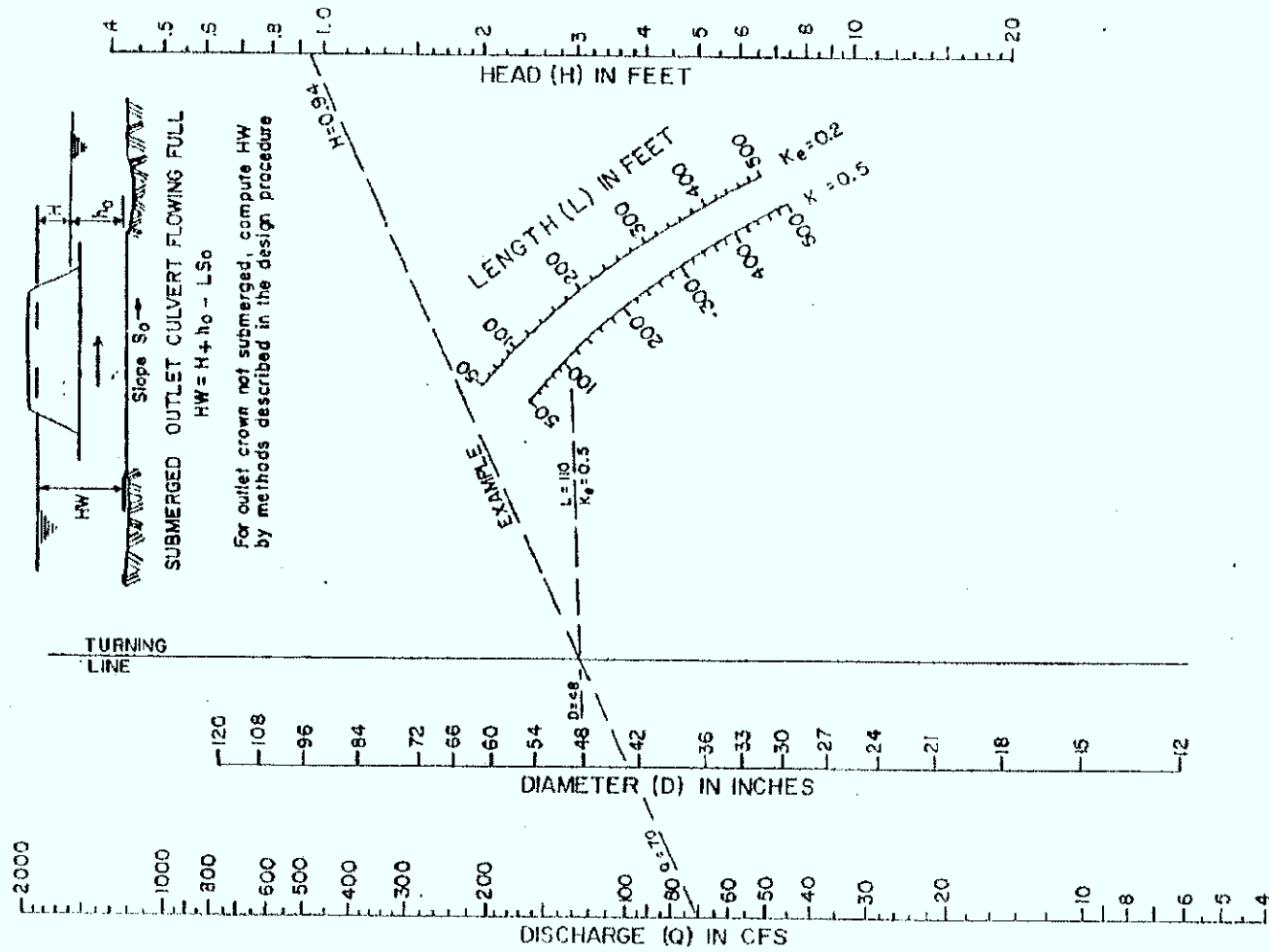


REVISIONS		
NO.	DATE	DESCRIPTION

HEAD FOR
 CONCRETE BOX CULVERTS
 FLOWING FULL
 $n = 0.012$ **0.013**

APPROVED: DATE May 8, 1960

CHA... SD-h

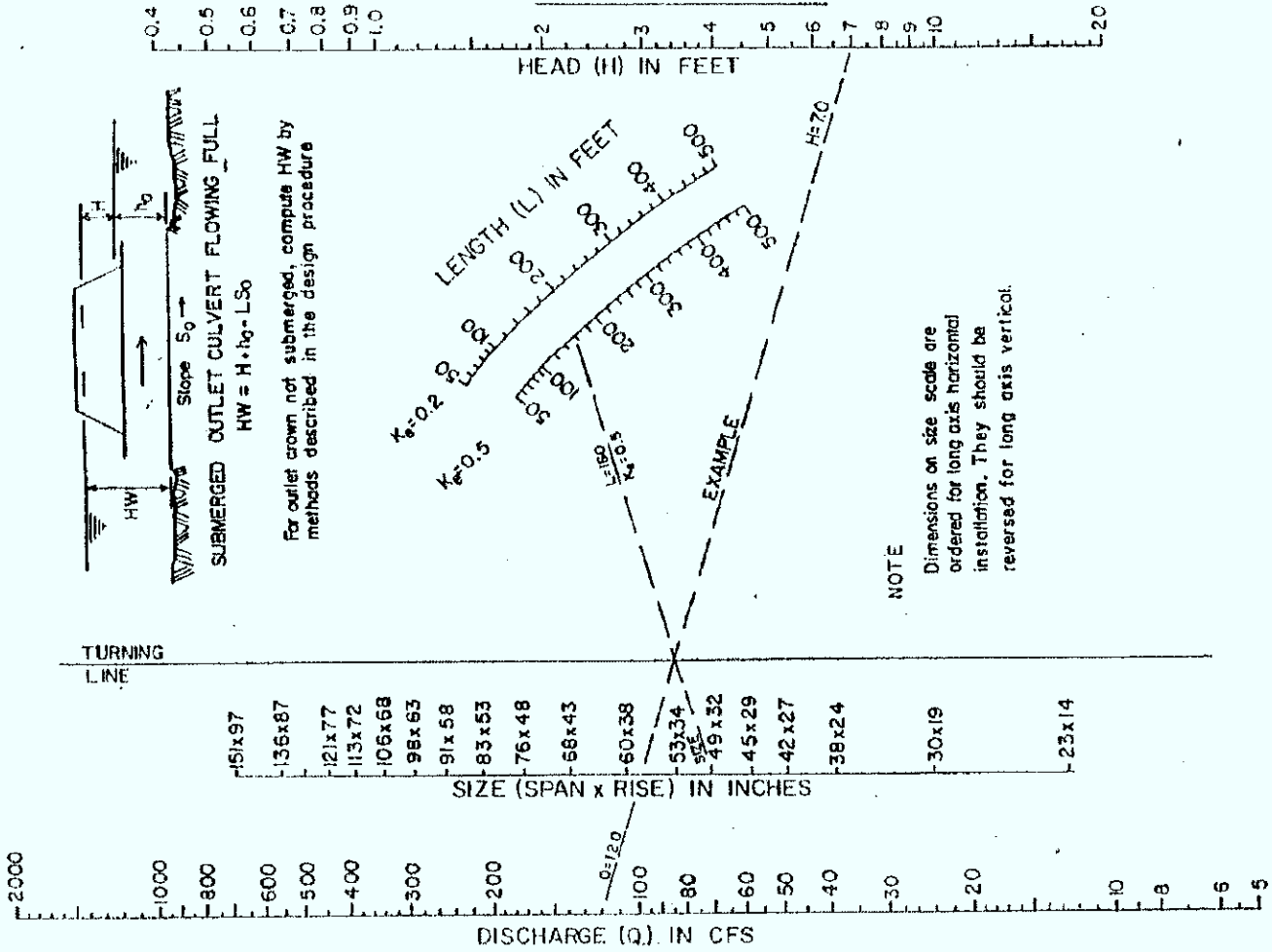


REVISIONS		
NO.	DATE	DESCRIPTION

HEAD FOR
CONCRETE PIPE CULVERTS
FLOWING FULL
 $n = 0.012$ **0.013**

APPROVED: DATE May 8, 1960

CHART SD-i



For outlet crown not submerged, compute HW by methods described in the design procedure

NOTE
Dimensions on size scale are ordered for long axis horizontal installation. They should be reversed for long axis vertical.

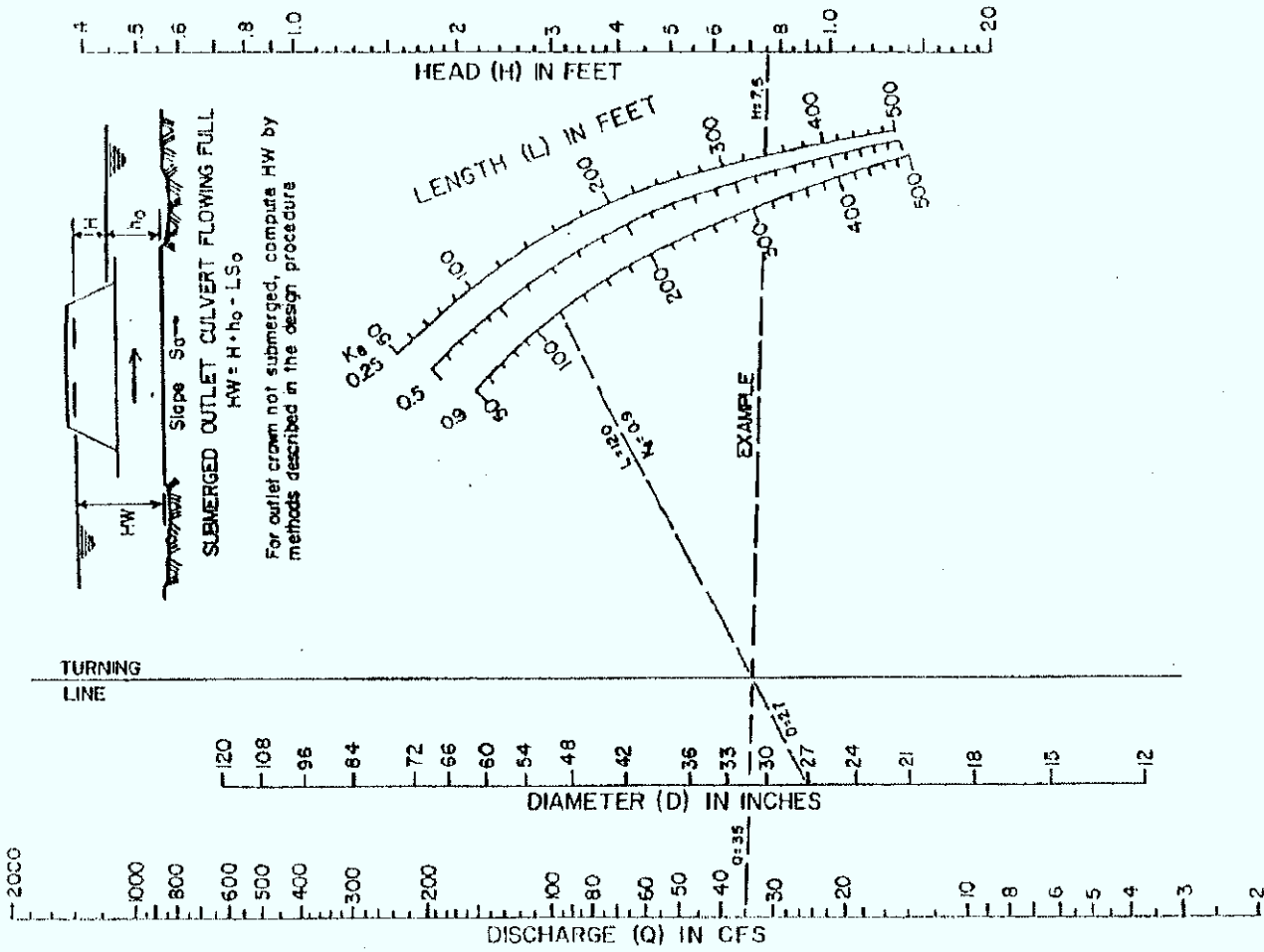
REVISIONS		
NO.	DATE	DESCRIPTION

HEAD FOR
OVAL CONCRETE PIPE CULVERTS
LONG AXIS HORIZONTAL OR VERTICAL
FLOWING FULL
 $n = \cancel{0.012} \ 0.013$

APPROVED: DATE May 8, 1980

STD. NO.	REV.
15-31	

CHAR, SD-j

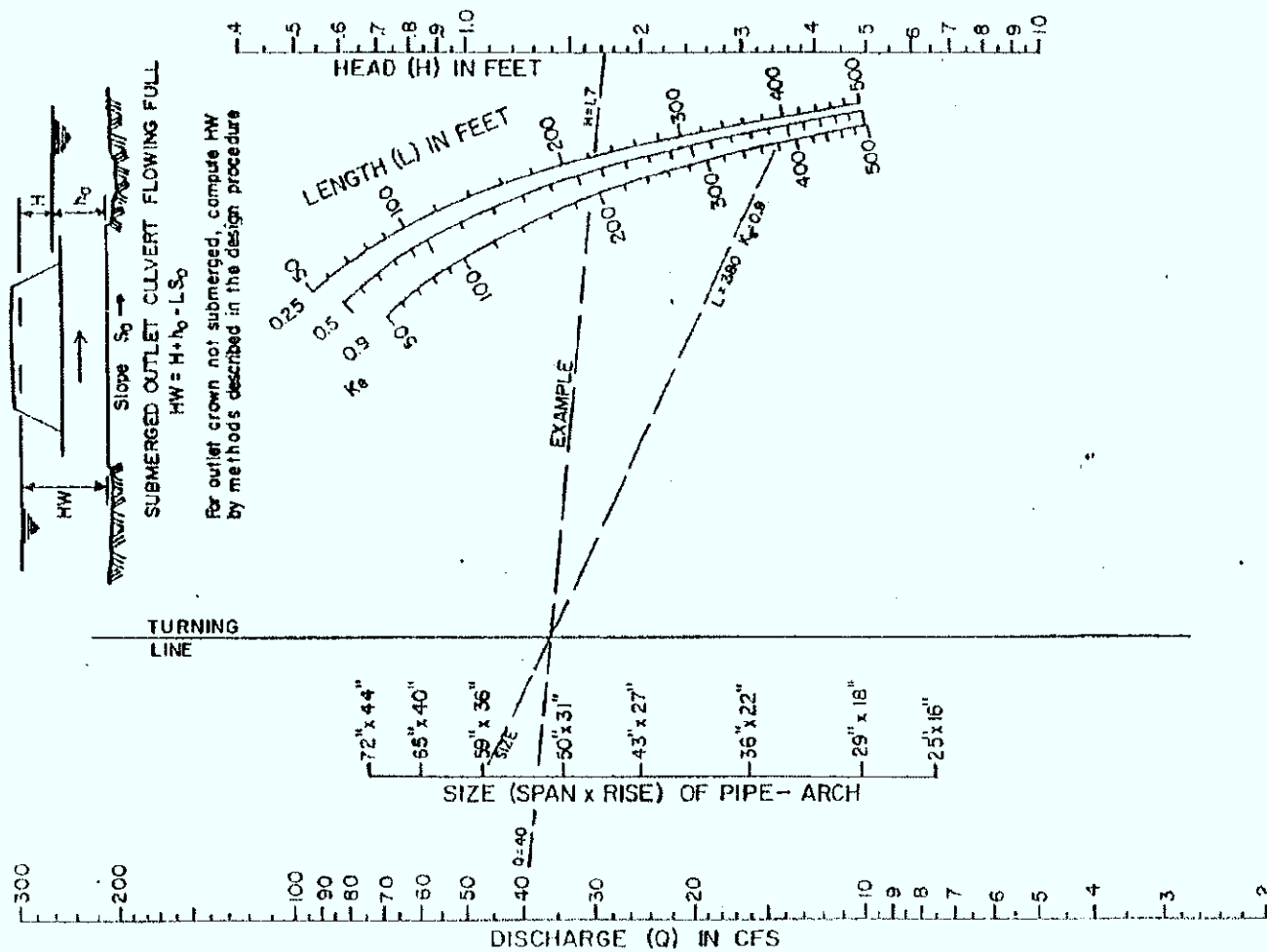


REVISIONS		
NO.	DATE	DESCRIPTION

HEAD FOR STANDARD
 C. M. PIPE CULVERTS
 FLOWING FULL
 $n = \del{0.023} 0.024$

APPROVED: DATE May 8, 1980

CHAR. SD-k



For outlet crown not submerged, compute HW by methods described in the design procedure

TURNING LINE

SIZE (SPAN x RISE) OF PIPE - ARCH

DISCHARGE (Q) IN CFS

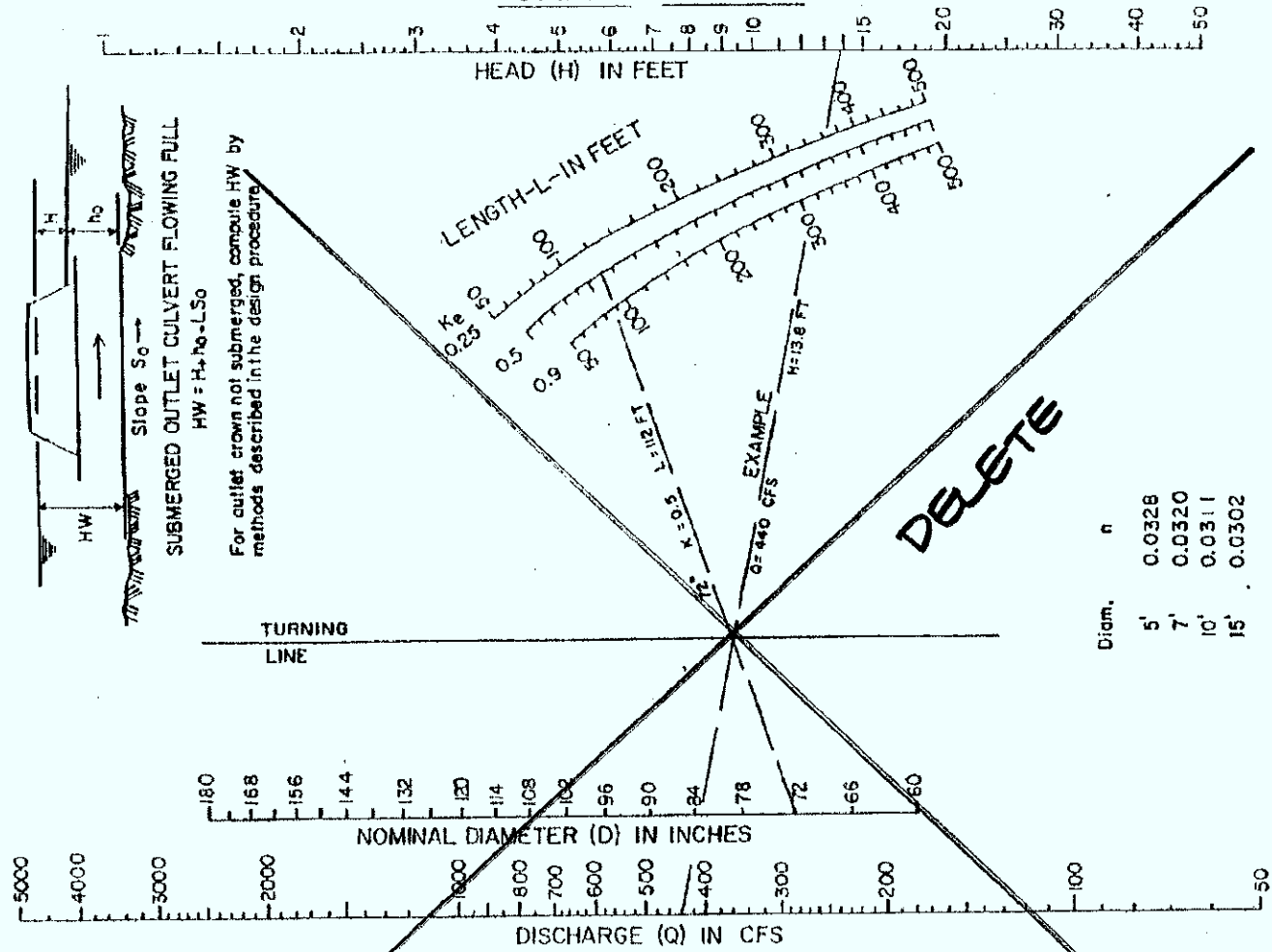
HEAD FOR STANDARD C. M. PIPE-ARCH CULVERTS FLOWING FULL

$n = 0.023$ **0.024**

REVISIONS		
NO.	DATE	DESCRIPTION

APPROVED: DATE May 8, 1960

CHAF. SD-1

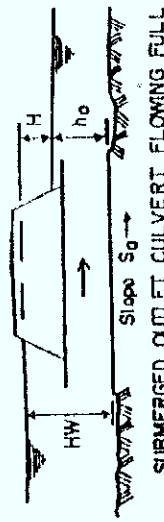


REVISIONS

NO.	DATE	DESCRIPTION

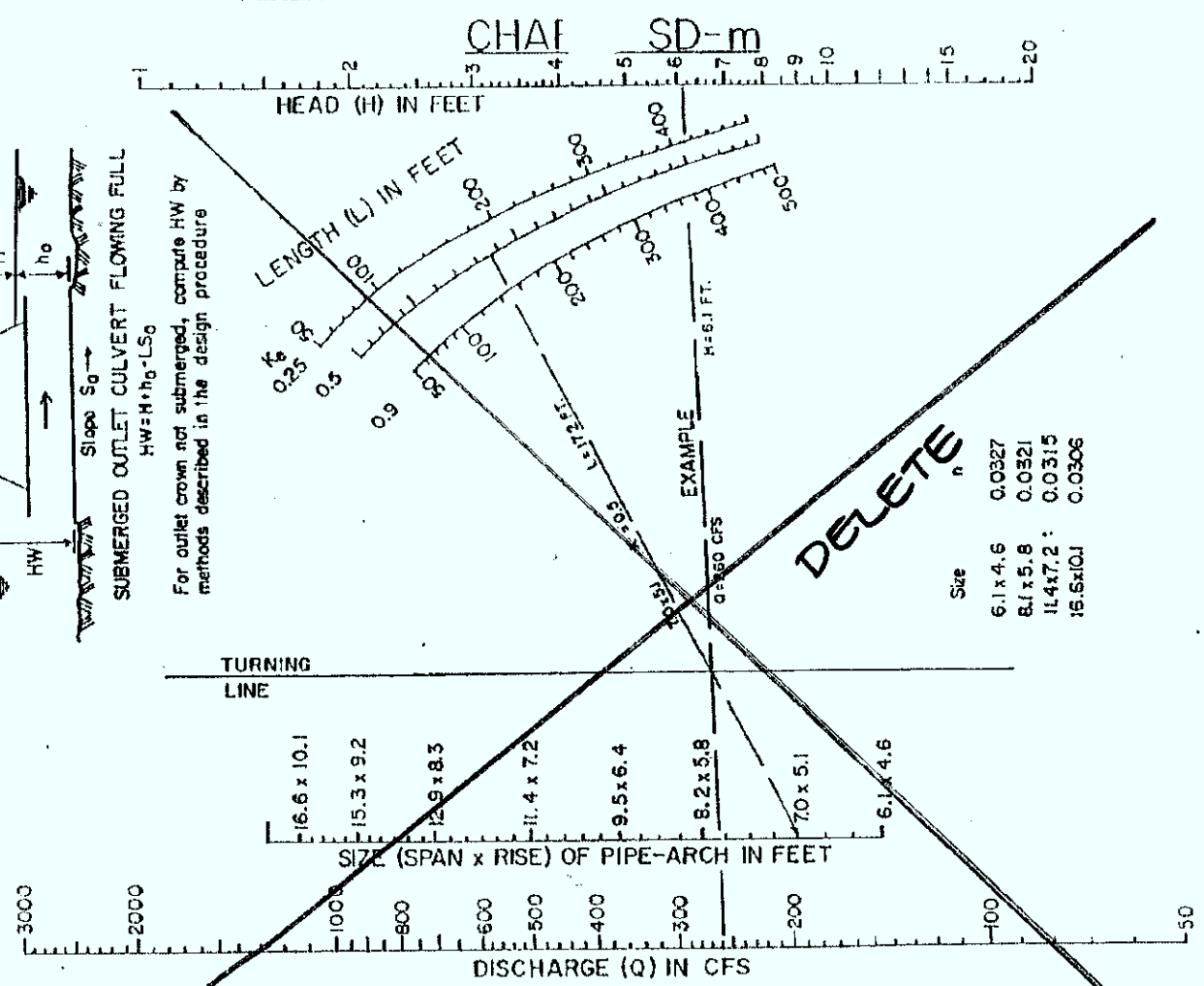
HEAD FOR
 STRUCTURAL PLATE
 CORR. METAL PIPE CULVERTS
 FLOWING FULL
~~n = 0.0328 TO 0.0302~~

APPROVED: DATE May 8, 1980



SUBMERGED OUTLET CULVERT FLOWING FULL

For outlet crown not submerged, compute HW by methods described in the design procedure



HEAD FOR
STRUCTURAL PLATE
CORRUGATED METAL
PIPE ARCH CULVERTS
18 IN. CORNER RADIUS
FLOWING FULL

~~n = 0.0327 TO 0.0306~~

APPROVED: DATE May 8, 1980

REVISIONS		
NO.	DATE	DESCRIPTION

STD. NO.	REV.
15 35	

STORM WATER DETENTION

MANAGEMENT

STORMWATER MANAGEMENT

DESIGN AND CONSTRUCTION CRITERIA

The following criteria will be used for the design and construction of all stormwater facilities within extraterritorial boundaries of the City of Greenville.

GENERAL:

- Design and installation of all stormwater impoundment facilities must comply with applicable Federal, State, and local laws. Attention should be given to the City of Greenville Soil Erosion and Sediment Ordinance and the North Carolina Dam Safety Law.
- In no case shall a habitable structure be located within the impoundment area of any stormwater storage facility.
- No utilities (sewer lines, power lines, water lines, etc.) shall be located within or immediately around any impoundment facility.
- All impoundment facilities will be considered permanent.
- All facilities shall be protected by a "Drainage Easement" or as a common lot recorded at Pitt County Register of Deeds office.

STORMWATER PLAN:

A stormwater plan acceptable by the City Engineer's standards will include the following:

- I. Stormwater Management Plan
 - a. General
 - i. Vicinity Map
 - ii. Legend, North arrow and Scale
 - iii. Title Block with development name, owner, engineering firm, engineer's seal, and signature
 - iv. Existing and proposed contours at not more than 2' intervals
 - v. Flood boundaries identified
 - vi. Existing and proposed improvements (built upon area)
 - vii. Existing and proposed ground cover

b. Drainage

- i. Existing and proposed drainage patterns and structures (BMP's, pipe systems, ditches/streams, ponds, etc.)
- ii. Size, length, and grade of pipes and swales
- iii. Drainage area map
- iv. Soil types

c. Calculations

- i. First Flush
- ii. Attenuation of 1-year, 24-hour storm
- iii. Underdrain calculations (if necessary)
- iv. Sizing of treatment area
- v. Pipe/swale sizing calculations

d. Maintenance

- i. BMP maintenance agreement
- ii. Check to record agreement (Pitt County Register of Deeds)
- iii. Maintenance Plan
- iv. Adequate access to perform required maintenance
- v. Easement (if required)

e. Erosion Control

- i. Construction sequence
- ii. Location of BMP erosion control measures (if necessary)

II. Stormwater Management Narrative

- a. Description of project
- b. Calculations of runoff

- c. Calculations for design of stormwater impoundment facility
- d. Staging of project
- e. Soil conditions
- f. Soil type
- g. Susceptibility to erosion and preventive measures
- h. Seeding formula

NUTRIENT REDUCTIONS:

- All facilities constructed to achieve nutrient reductions shall meet all requirements specified in the North Carolina Division of Water Quality Stormwater Best Management Practices Manual.

ATTENUATION:

- Various methods of which impoundment storage volume is approximated may be utilized; however, the result must at least equal that volume approximated using the method described within this manual.
- All required storage volume approximations must be included with the submitted design.

PRIMARY OUTLET DEVICE

- All outlet devices must be constructed adhering to current construction standards as described in the City of Greenville's "Manual of Standard Designs and Details."
- Alternate outlet devices not referred to in this publication may be approved at the discretion of the City Engineer. Such approval must be specifically requested upon submittal of the drainage plan.
- The water velocity generated by any outlet device must meet the requirements set forth by the City of Greenville Soil Erosion and Sediment Control Ordinance.

SECONDARY OUTLET DEVICE (EMERGENCY SPILLWAY):

- It is recommended that all vegetated spillways be constructed in nonfilled or cut areas. However,

- Emergency spillways may be constructed in fill areas provided they are asphalt or concrete lined and have sufficient approach and exit areas.
- Any emergency spillways as a minimum must pass the peak 25-year flood, as approved by the City Engineer, after the storage facility has reached its capacity.

FACILITY LIFE:

- All stormwater impoundments are to be permanent facilities.
- All materials used in the construction of a stormwater impoundment facility must have a life expectancy to that of the total facility or a regularly scheduled replacement program must be provided.

Determination of Impoundment Storage Volume

On-site detention involves the storage of stormwater runoff and the controlled release of that runoff and is applicable for all proposed sites required to meet the City of Greenville's Stormwater Management Program. See this program and any amendments for requirements. The excess runoff from the developed site is less than or equal to the rate of stormwater runoff prior to the installation of the impervious cover for storms up to and including the 1-year (80% of 2-year) storm. All impoundments will have an emergency device or "spillway" that will safely pass the 25-year storm, as approved by the City Engineer. The weir will be sized to carry the 25-year storm safely with an additional one foot of freeboard.

Flood routing is an algebraic method for determining the time and magnitude of a particular flood situation with regard to the rate of inflow storage versus the rate of outflow discharge. For the purpose of this manual, the routing procedure is based on the procedure described in the "Design Approaches of Stormwater Management in Urban Areas" by Dr. H. Rooney Malcolm, Jr. of N.C. State University.

Maximum Permissible Release Rate

The maximum release rate must be limited to that rate of runoff discharged from the site immediately prior to the proposed development during the 1-year (80% of 2-year) storm. This rate can be calculated according to the Rational Method described in this manual.

A group of hydrographs can be developed where the intensity is varied by using storms with different durations. The volume of runoff associated with each hydrograph is calculated by multiplying the maximum runoff rate with the respective storm duration (Note that runoff is measured in cubic feet per second and the duration is in minutes.).

Once the hydrographs have been developed it is necessary to convert the maximum runoff rates for each rainfall to storm runoff volumes. These volumes should be computed in cubic feet.

This is only an approximation which is applicable to small basins. Many different methods may be used in the design of impoundment facilities and innovative designs will be considered by the City Engineer provided the maximum permissible release rate and storage facility requirements are met with a safety factor. In all cases, the design will be routed for confirmation.

STREET STANDARDS

Item # 8

SUMMARY OF STREET STANDARDS

<u>STREET CLASSIFICATIONS</u>	<u>CROSS SECTION</u>	<u>EASEMENT/ROW</u>	<u>PAVEMENT WIDTH (B/B)</u>	<u>AVERAGE DAILY TRAFFIC</u>
Private Street	Curb	40' Easement	24'	<400
	Ditch	60' Easement	20'	<400
Standard Residential	Curb	50'	28'	<1500
	Ditch	60'	22'	<1500
Collector	Curb	60'	36'	1500-3500
	Ditch	70'	34'	1500-3500
Planned Industrial	Ditch	80'	28'	N/A
Minor Thoroughfare	Curb	80'	65'	5000-10000
Major Thoroughfare	Curb	100'+	variable	10000+
Min Longitudinal Slope	<u>Std. C&G</u>		<u>Roll C&G</u>	<u>Non C&G (Outside urban core, single family only)</u>
	0.3%		0.5%	0.5% (channel flow line) 0.5% (street center line)
Max. Depth of Flow				
	Thoroughfare	0.3 ft	N/A	N/A
	Non-thoroughfare	0.5 ft	0.3 ft	2 ft
Min. Driveway Culvert Size	N/A		N/A	15"

NOTES:

The minimum longitudinal grade for channel sections may be reduced for cross drainage and at some isolated locations with the approval of the City Engineer. The City Engineer shall have the option of requiring piping for channels less than 0.8% slope.

Minimum driveway separation long non-curb and gutter streets shall be 100 feet center to center as measured along the edge of pavement. A shared culvert configuration may be utilized pursuant to Standards 50.09, 50.10 and 50.11. if the required spacing cannot be obtained.

Driveways, along standard curb and gutter streets, shall conform to the Driveway Ordinance which requires removal of the complete section of the curb and gutter in lieu of breaking off the back of curb.

Driveway culvert sizes for each single family lot shall be determined at time of construction plan approval and shall be recorded on the final plat for each lot.

The maximum 10-year storm headwater depth for driveway culverts shall not exceed 1.2D or the elevation of the driveway, whichever is less.

linings and velocity control devices shall be designed and installed in accordance with the Soil Erosion and Sedimentation Control Ordinance and the North Carolina Erosion and Sediment Control Planning and Design Manual.

Any street to be city-maintained shall have "Record Drawings" submitted and approved prior to scheduling of the pre-final street acceptance inspection. All "Record Drawings" for streets and storm drainage infrastructure shall include, but not necessarily limited to, the information as identified in the *Street and Storm Drainage "Record Drawings" Submittal Requirements*.

Approved date: July 1, 1997

No.	Date	Description
1	7/1/97	REVISED
2	11/17/09	RECORD DWGS

All required channel

STD NO.	Revision
35.01	1

PAVING SCHEDULE INDEX

- Ⓐ BITUMINOUS CONCRETE SURFACE COURSE, TYPE S-9.5B
- Ⓑ BITUMINOUS CONCRETE SURFACE COURSE, TYPE S-9.5B
- Ⓒ BITUMINOUS CONCRETE BASE COURSE, TYPE B-25.0B
- Ⓓ BITUMINOUS CONCRETE SURFACE COURSE, TYPE S-9.5B
- Ⓔ BITUMINOUS CONCRETE BASE COURSE, TYPE B-25.0B
- Ⓕ BITUMINOUS CONCRETE BASE COURSE, TYPE B-25.0B
- Ⓖ BITUMINOUS CONCRETE BINDER, TYPE I-19.0B

- Ⓘ COARSE AGGREGATE BASE COURSE
- Ⓝ COARSE AGGREGATE BASE COURSE
- Ⓚ COARSE AGGREGATE BASE COURSE
- Ⓛ CONCRETE CURB AND GUTTER
- Ⓜ CONCRETE CURB AND GUTTER

REVISIONS

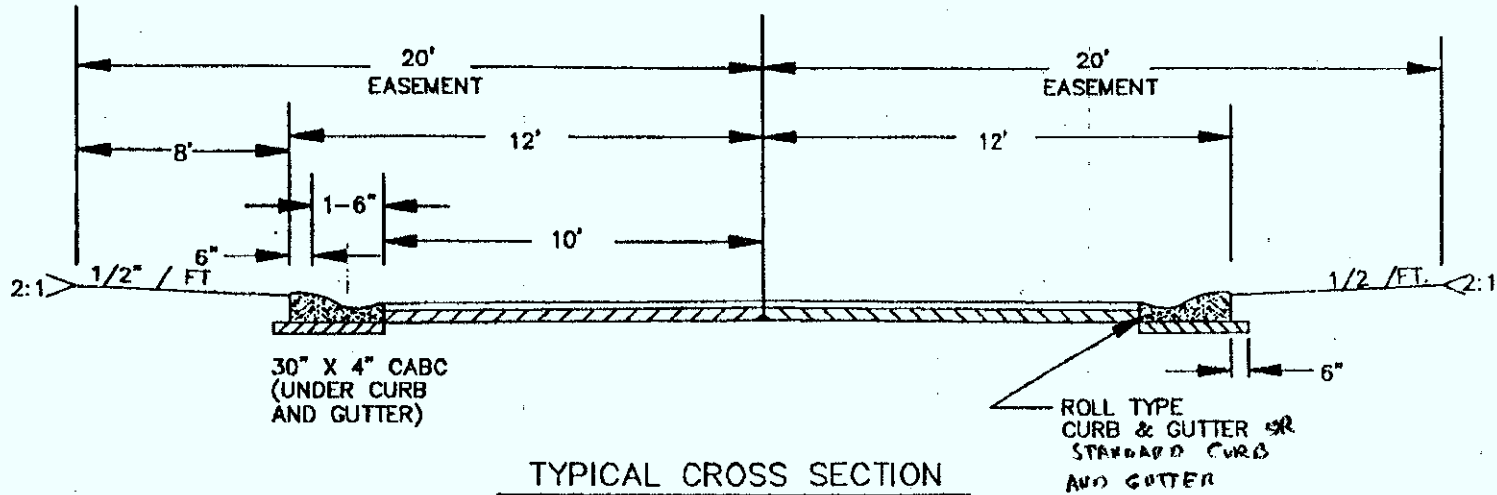
NO.	DATE	DESCRIPTION

APPROVED: DATE May 8, 1980

PAVING INDEX SCHEDULE

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

STD. NO.	REV.
35.02	



NOTE:

1. PAVEMENT DESIGN TO BE ACCORDING TO PROCEDURE DESCRIBED IN STD. NO. 40.01

2. MAY ONLY BE USED IN CASES WHERE PROJECTED TRAFFIC VOLUMES WILL NOT EXCEED 400 ADT BASED ON TRIP GENERATION FACTORS SHOWN ON STD. NO. 40.15.

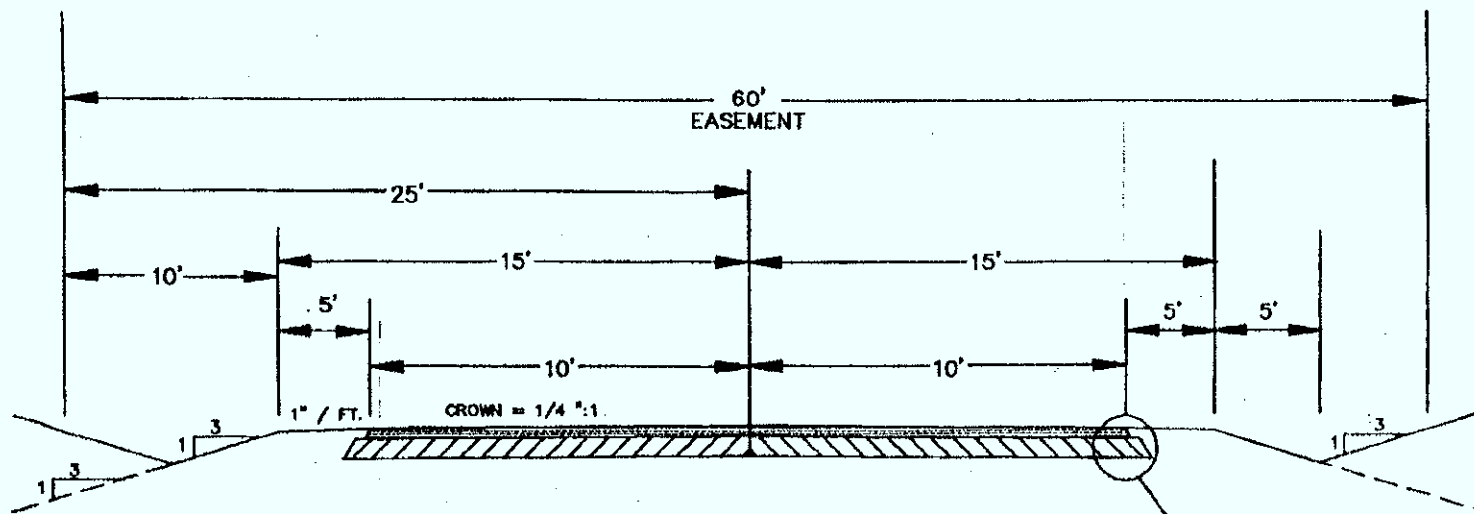
NO.	DATE	DESCRIPTION
1	7/1/97	REVISED

APPROVED: DATE 7/1/97

PRIVATE STREET
(CURB & GUTTER)

CITY OF GREENVILLE, N. C. ENGINEERING DIVISION

STD. NO.	REV.
35.03-A	



NOTE:

1. PAVEMENT DESIGN TO BE ACCORDING TO PROCEDURE DESCRIBED IN STD. NO. 40.01

2. MAY ONLY BE USED IN CASES WHERE PROJECTED TRAFFIC VOLUMES WILL NOT EXCEED 400 ADT BASED ON TRIP GENERATION FACTORS SHOWN ON STD. NO. 40.15.

TYPICAL CROSS SECTION

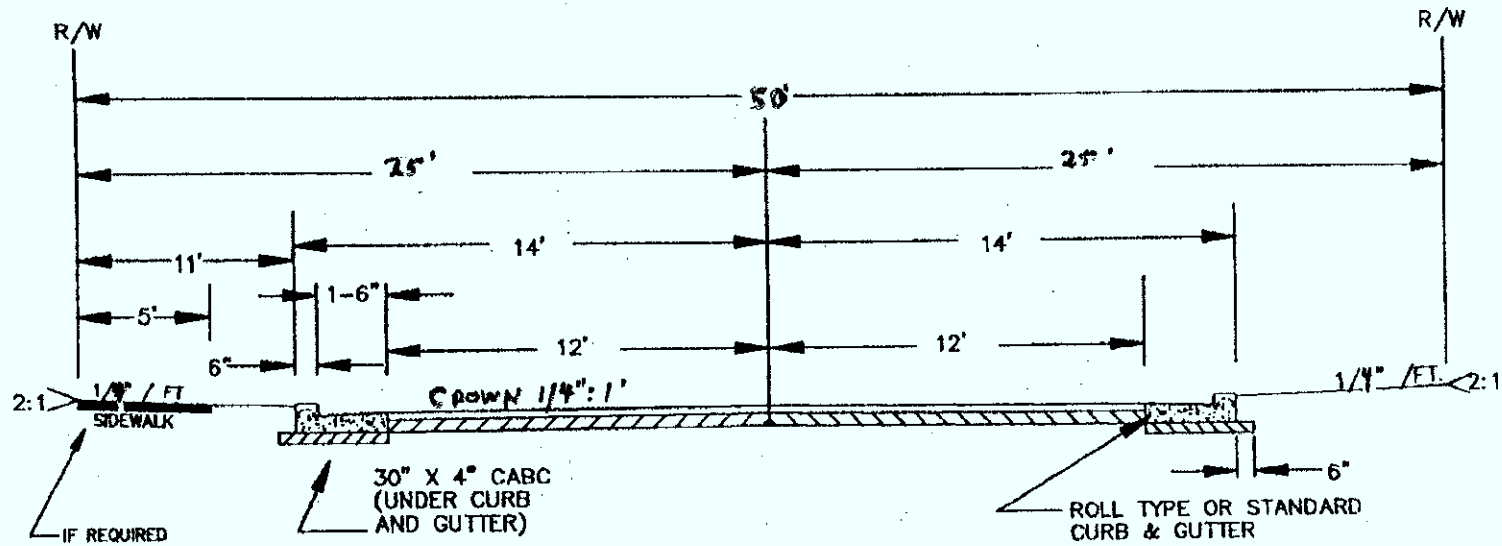
NO.	DATE	DESCRIPTION
1	7/1/97	REVISED

APPROVED DATE 7/1/97

PRIVATE STREET
(NON-CURB & GUTTER)

CITY OF GREENVILLE, N. C. ENGINEERING DIVISION

STD. NO.	REV.
35.03-B	



TYPICAL CROSS SECTION

NOTE:

1. PAVEMENT DESIGN TO BE ACCORDING TO PROCEDURE DESCRIBED IN STD. NO. 40.01
2. MAY ONLY BE USED IN CASES WHERE PROJECTED TRAFFIC VOLUMES WILL NOT EXCEED 1500 ADT BASED ON TRIP GENERATION FACTORS SHOWN ON STD. NO. 40.15.

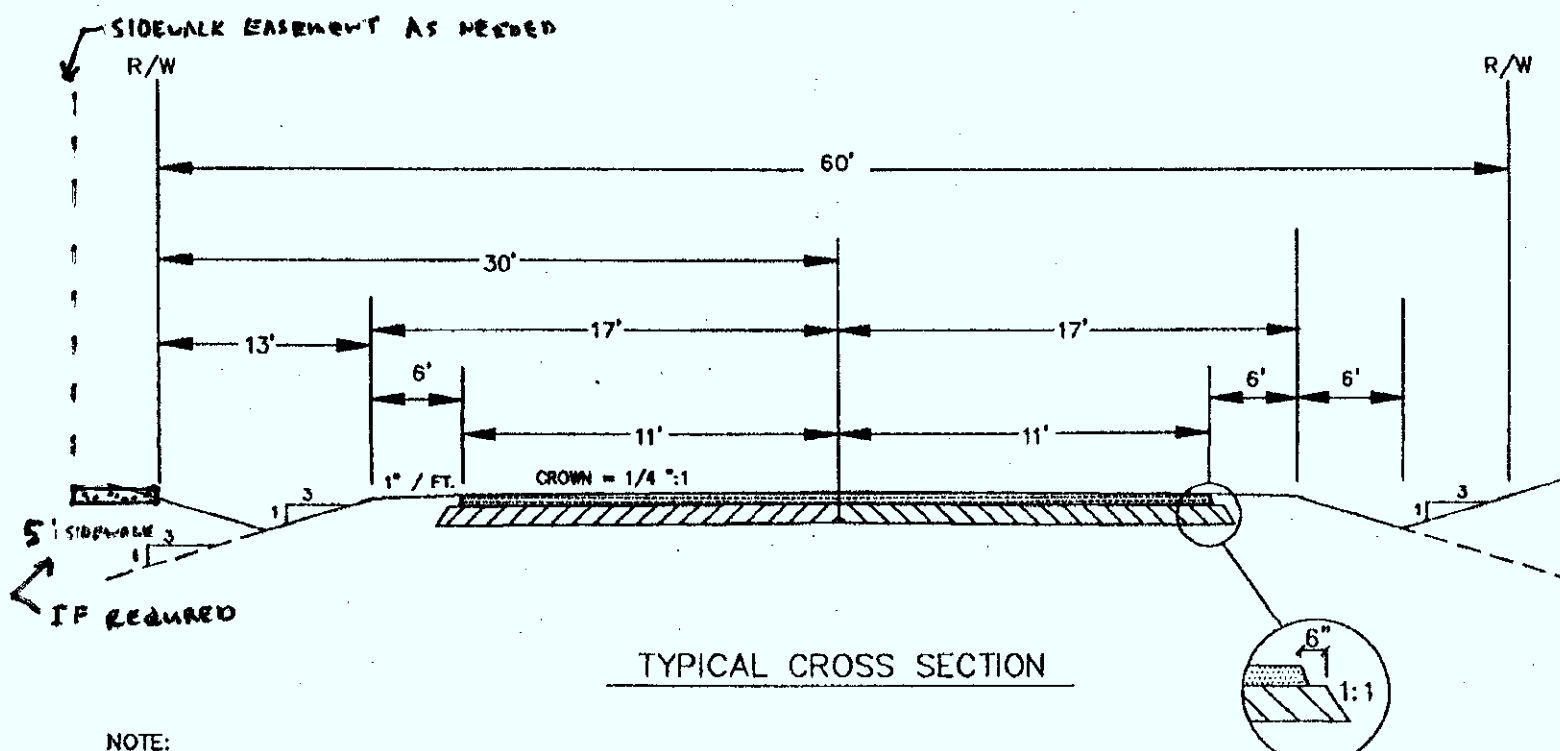
NO.	DATE	DESCRIPTION
1	7/1/97	REVISED

APPROVED DATE 7/1/97

STANDARD RESIDENTIAL STREET
(CURB & GUTTER)

CITY OF GREENVILLE, N. C. ENGINEERING DIVISION

STD. NO.	REV.
35.05-A	.



TYPICAL CROSS SECTION

NOTE:

1. PAVEMENT DESIGN TO BE ACCORDING TO PROCEDURE DESCRIBED IN STD. NO. 40.01
2. MAY ONLY BE USED IN CASES WHERE PROJECTED TRAFFIC VOLUMES WILL NOT EXCEED 1500 ADT BASED ON TRIP GENERATION FACTORS SHOWN ON STD. NO. 40.15.
3. TIE IN SLOPES MAY BE SHALLOWER, HOWEVER ALL DRAINAGE MUST BE MAINTAINED WITHIN R/W.

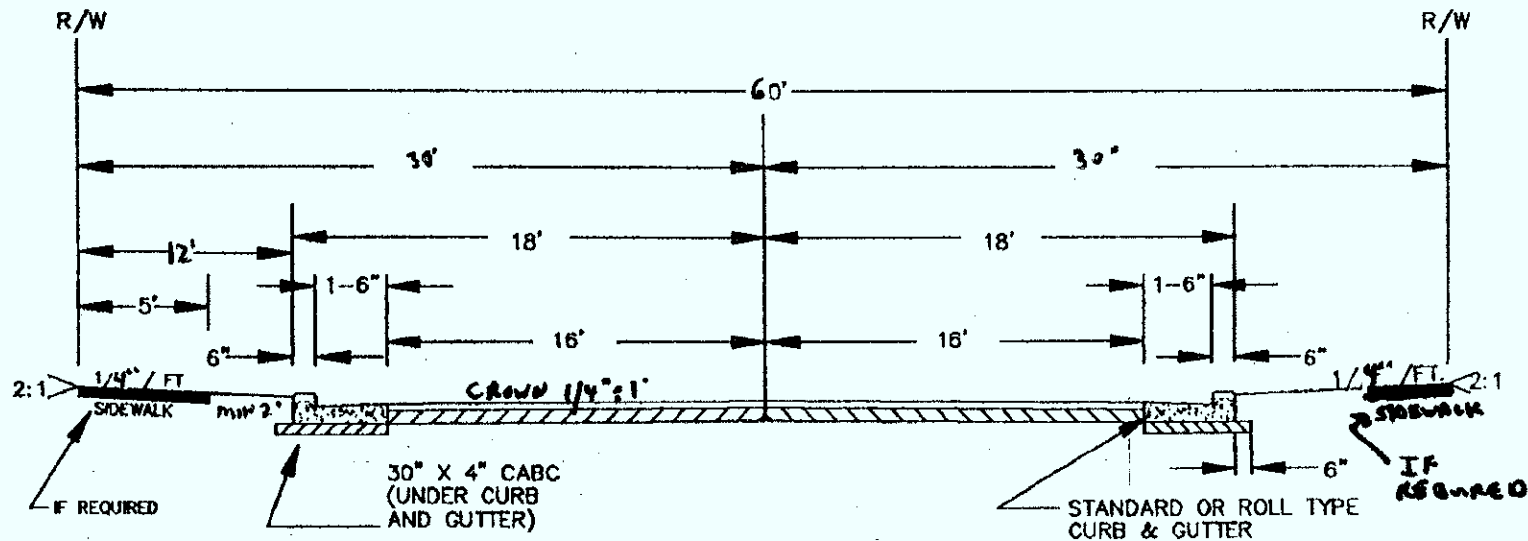
NO.	DATE	DESCRIPTION
	7/1/97	NEW STANDARD

APPROVED DATE 7/1/97

STANDARD RESIDENTIAL STREET
(NON-CURB & GUTTER)

CITY OF GREENVILLE, N. C. ENGINEERING DIVISION

STD. NO.	REV.
35.05-B	



TYPICAL CROSS SECTION

NOTE:

1. PAVEMENT DESIGN TO BE ACCORDING TO PROCEDURE DESCRIBED IN STD. NO. 40.01
2. MAY ONLY BE USED IN CASES WHERE PROJECTED TRAFFIC VOLUMES WILL NOT EXCEED 1500-3500 ADT BASED ON TRIP GENERATION FACTORS SHOWN ON STD. NO. 40.15.

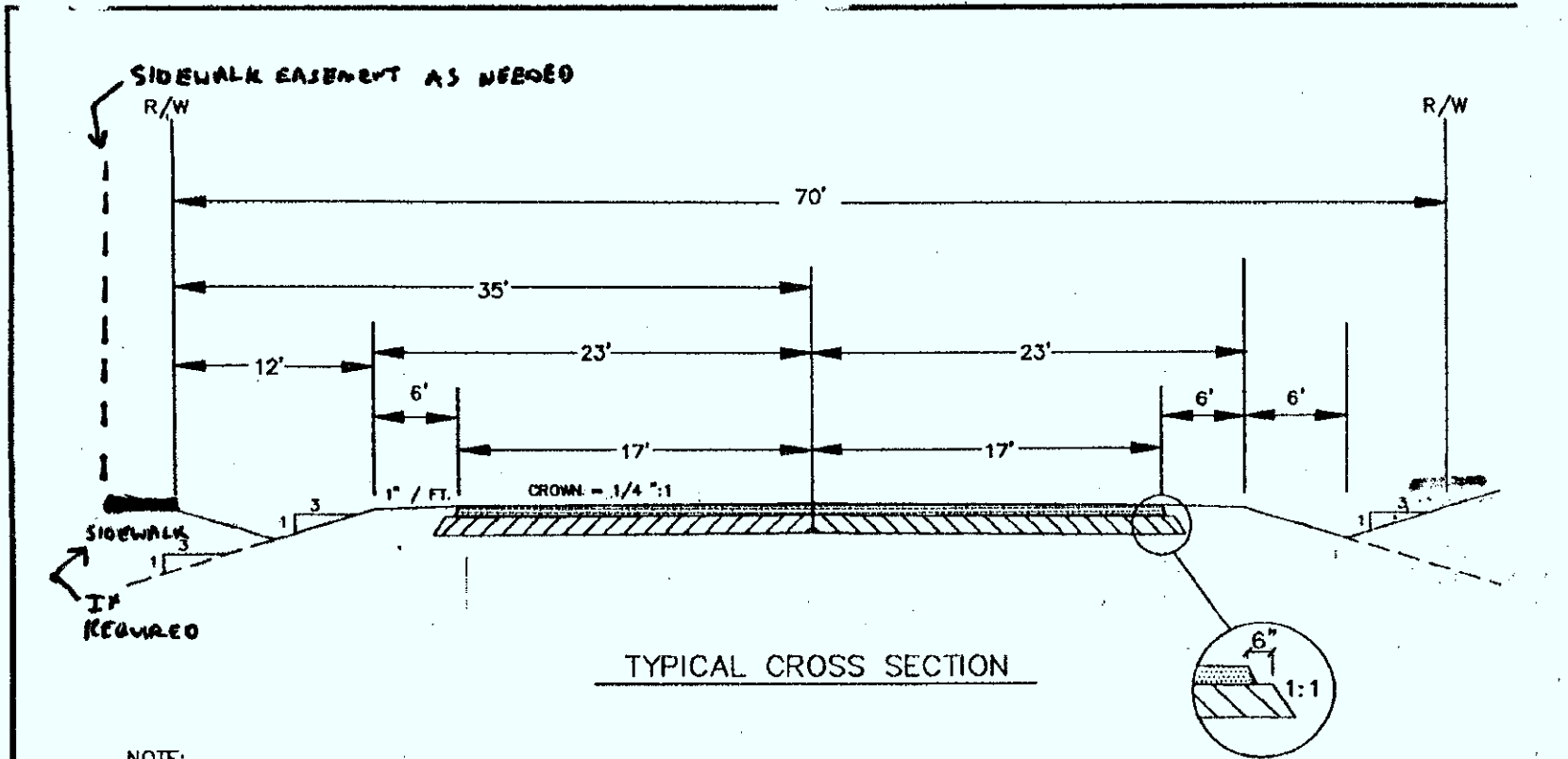
NO.	DATE	DESCRIPTION
1	7/1/97	REVISED

APPROVED: DATE 7/1/97

COLLECTOR STREET
(CURB & GUTTER)

CITY OF GREENVILLE, N. C. ENGINEERING DIVISION

STD. NO.	REV.
35.06-A	



TYPICAL CROSS SECTION

NOTE:

1. PAVEMENT DESIGN TO BE ACCORDING TO PROCEDURE DESCRIBED IN STD. NO. 40.01
2. MAY ONLY BE USED IN CASES WHERE PROJECTED TRAFFIC VOLUMES WILL NOT EXCEED 1500-3500 ADT BASED ON TRIP GENERATION FACTORS SHOWN ON STD. NO. 40.15.

3. TIE IN SLOPES MAY BE SHALLOWER, HOWEVER ALL DRAINAGE MUST BE MAINTAINED WITHIN R/W.

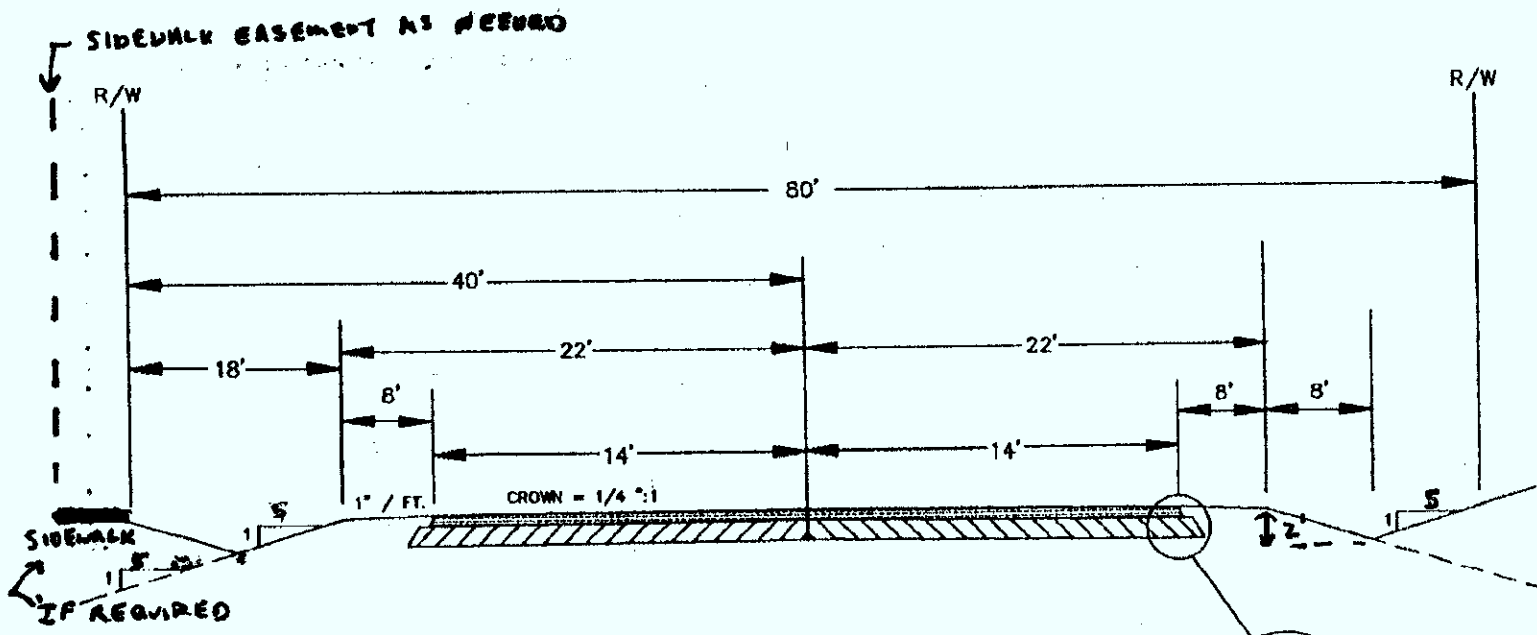
NO.	DATE	DESCRIPTION
	7/1/97	NEW STANDARD

APPROVED DATE: 7/1/97

COLLECTOR STREET
(NON-CURB&GUTTER)

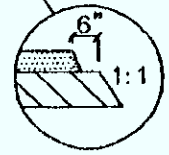
CITY OF GREENVILLE, N. C. ENGINEERING DIVISION

STD. NO.	REV.
35.06-B	



NOTE: PAVEMENT DESIGN TO BE ACCORDING TO PROCEDURE DESCRIBED IN STD. NO. 40.01

TYPICAL CROSS SECTION



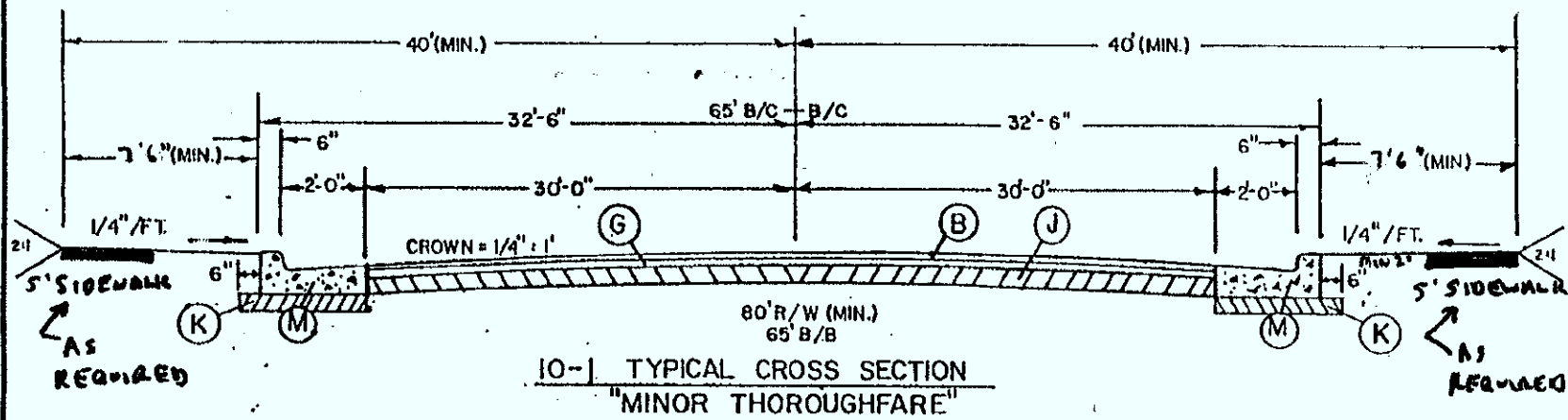
NO.	DATE	DESCRIPTION
1	7/1/97	REVISED

APPROVED: DATE 7/1/97

PLANNED INDUSTRIAL STREET
(NON-CURB & GUTTER)

CITY OF GREENVILLE, N. C. ENGINEERING DIVISION

STD. NO.	REV.
35.07	



NOTE:

PAVEMENT DESIGN TO BE ACCORDING TO PROCEDURE DESCRIBED IN STD. NO. 40.01

REVISIONS

NO.	DATE	DESCRIPTION

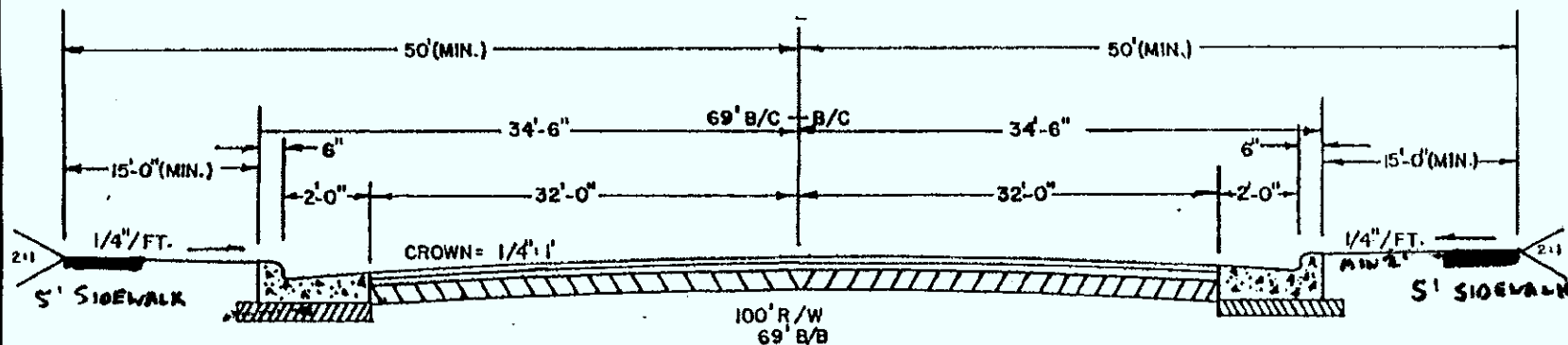
APPROVED: DATE May 8, 1980

STANDARD TYPICAL SECTION THOROUGHFARES

Item # 8

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

STD. NO.	REV.
3508	



IO-1 TYPICAL CROSS SECTION
"MAJOR THOROUGHFARE"

REVISIONS

NO.	DATE	DESCRIPTION

PAVEMENT SCHEDULE TO BE DETERMINED
BY THE CITY ENGINEERING DEPARTMENT.

APPROVED: DATE May 8, 1980

STANDARD TYPICAL SECTION
MAJOR THOROUGHFARE

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

Item # 8

STD. NO.	REV.
35 09	

NO. 301064



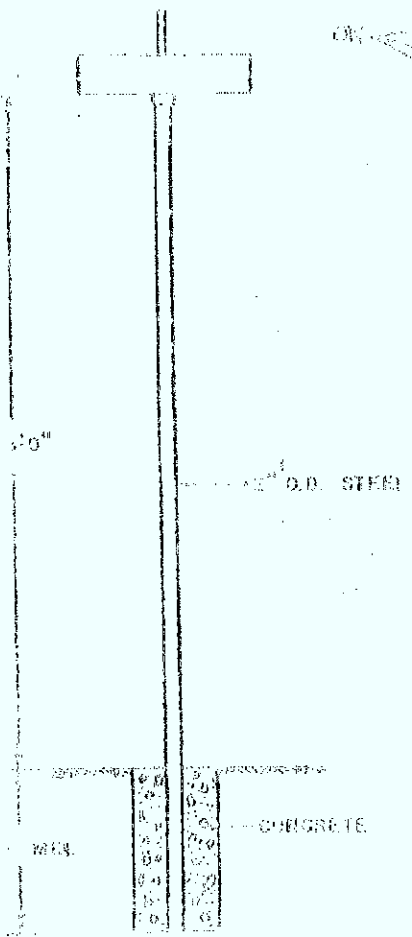
24", 30", OR 36"

1/2" TO 3/4"

4" LETTERS TO BE SERIES "D"
2" LETTERS TO BE SERIES "C"

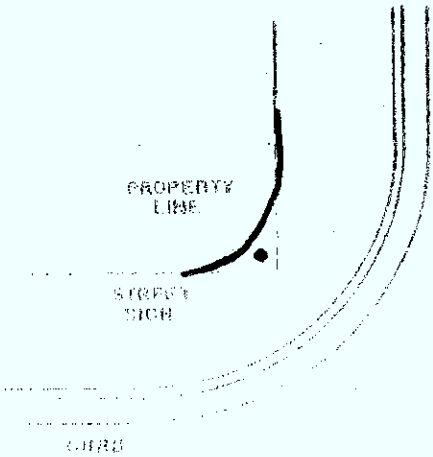
ALL LETTERS AND BACKGROUND MATERIALS TO BE "SCOTCHLITE" OR AN APPROVED EQUAL AND MEET I.T.E. SPECIFICATIONS ON REFLECTIVITY.

SIGNS SHALL BE GREEN BACKGROUND WITH WHITE LETTERS



2" O.D. STEEL

CONCRETE



15" R

STREET NAME SIGN TO BE ONE FROM PROPERTY LINE IF SAID LINES WERE EXTENDED

REV. DATE	REVISIONS DESCRIPTION

5.) DEVELOPER RESPONSIBLE FOR INSTALLATION OF ALL STREET SIGNS.

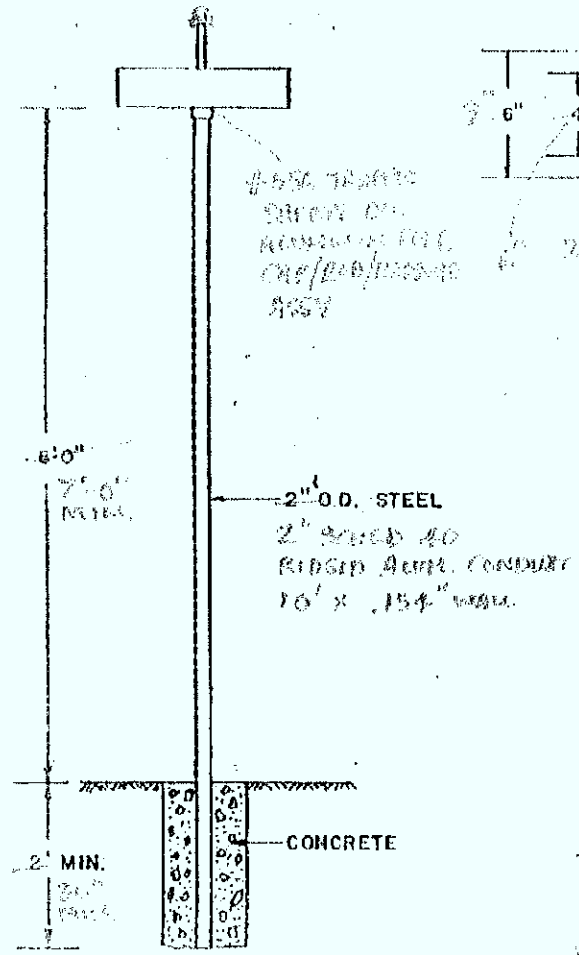
APPROVED DATE 10/18/00

STREET NAME SIGNS

CITY OF CHARLESTON, SOUTH CAROLINA - DEPARTMENT OF PUBLIC WORKS

ISSUED BY: [Signature]

FROM STREET SIGN SPECIFICATIONS



#556 TRAFFIC SIGN ON HIGHWAY 100 C/S/PROJ/100-00 8557

2" O.D. STEEL
2" RIGID 40
RBS Amp. CONDUIT
16' x 15 1/2" WID.

CONCRETE

2' MIN.
30" PAVE.



24", 30", OR 36"

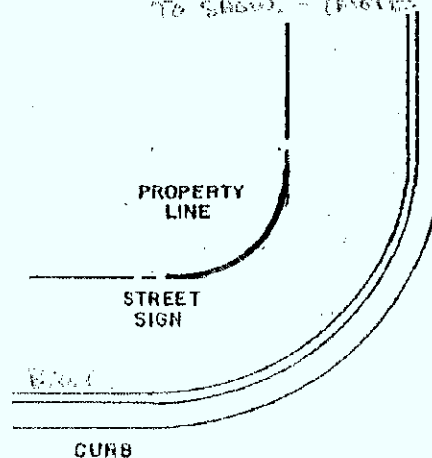
1. 4" LETTERS TO BE SERIES "B" (1 1/2" W)
2. 2" LETTERS TO BE SERIES "C" (1 1/2" W)

ALL LETTERS AND BACKGROUND MATERIALS TO BE "SCOTCHLITE" OR AN APPROVED EQUAL AND MEET I.T.E. SPECIFICATIONS ON REFLECTIVITY.

3. SIGNS SHALL BE GREEN BACKGROUND WITH WHITE LETTERS AND WHITE BORDER.

4. LETTERS SHALL BE FORMER'S BASIC SWEETING WITH BE 3-PA 1171-C HIGH INTENSITY PHOSPHORIC (OR EQUIV.), DIGITAL LETTER MARK USING 3-PA 1171-C TRANSLUCENT EC GREEN FILM AND A .50" BORDER TO SHOW. (NOTE: 3-PA 1171-C MATERIAL ACCEPTABLE ALTERNATE)

5. ALUMINUM SIGN BLANK MATERIAL TO BE .020" THICK W/ 1.5" RADIUS CORNERS, 2-BEDS PER SIGN FACE.



RECOMMENDED INSTALLATION

1. STREET NAME SIGN TO BE ONE' FROM PROPERTY LINE IF SAID LINES WERE EXTENDED.
2. SIGNS SHOULD NOT BE PLACED NEAR S.W.C. TO THE ROAD.
3. SIGN POSITION TO BE PLACED ON THE SIDE OF ROAD INDICATED.
4. SIGN POSITION SHALL BE APPROVED BY THE CITY ENGINEER.

S) DEVELOPER RESPONSIBLE FOR INSTALLATION OF ALL STREET SIGNS.

APPROVED: DATE May 8, 1980

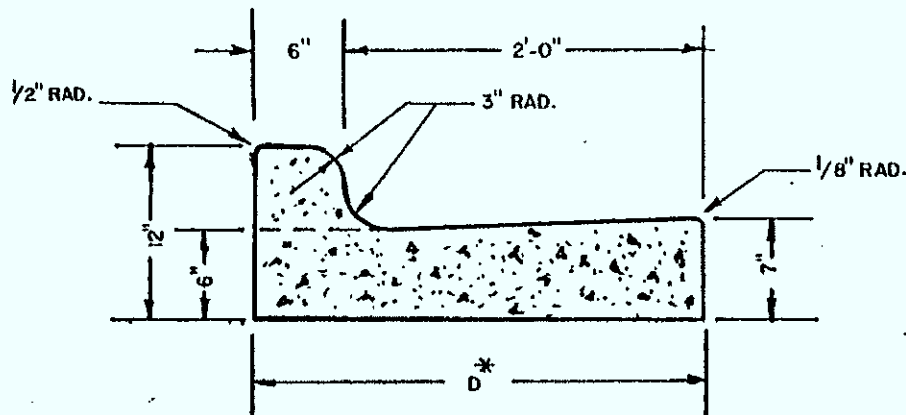
REVISIONS		
NO.	DATE	DESCRIPTION
1	1/25/80	REV. PLAN, FOR INSURE

STREET NAME SIGNS

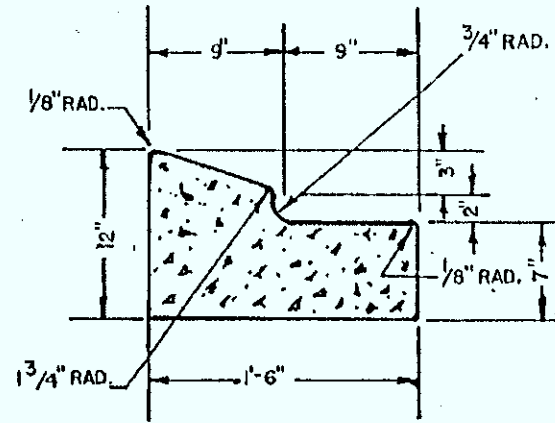
CITY OF GREENVILLE, N.C. - ENGINEERING DEPT.

Item # 8

STD. NO.	REV.
75 11	



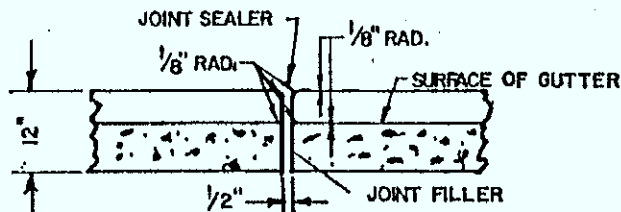
2'-6" CURB AND GUTTER



1'-6" CURB AND GUTTER

(TO BE USED IN MEDIANS ONLY)

D* : 24" CURB AND GUTTER SHALL BE PLACED IN RESIDENTIAL DEVELOPMENTS OR AS PROVIDED IN SEC 40.00 OF THIS MANUAL.
30" CURB AND GUTTER SHALL BE PLACED IN *NECOT R/W.*



TRANSVERSE EXPANSION JOINT
IN CURB AND GUTTER

GENERAL NOTES:

CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.

CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/2" SHALL BE OBTAINED.

ALL CONTRACTION JOINTS SHALL BE FILLED WITH JOINT FILLER.

EXPANSION JOINTS SHALL BE SPACED AT 90' INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS.

ALL CURB AND GUTTERS ARE TO BE POURED WITH CLASS "A" CONCRETE. (3000 PSI)

FLEXIBLE FORMS ARE TO BE USED WHEN RADII IS LESS THAN 200.

REVISIONS

NO.	DATE	DESCRIPTION

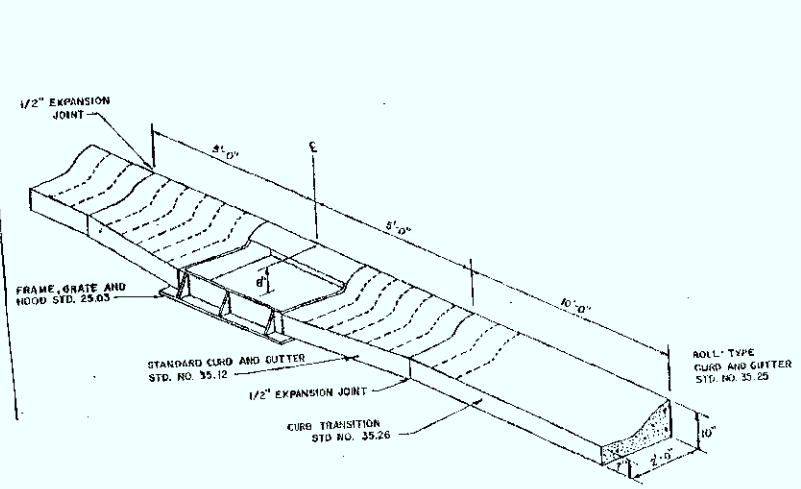
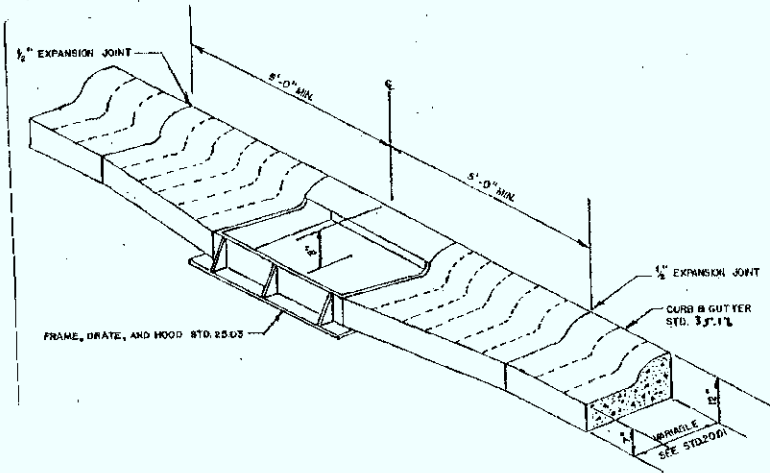
APPROVED: DATE May 8, 1980

STANDARD CURB AND GUTTER

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

Item # 8

STD. NO.	REV.
35 12	



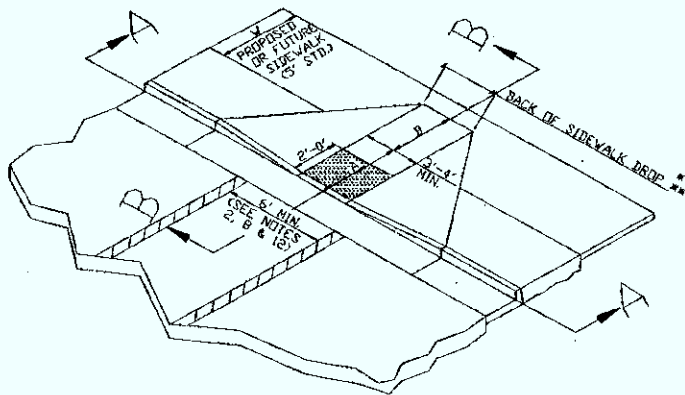
REVISIONS

NO.	DATE	DESCRIPTION

APPROVED: DATE May 8, 1980

STANDARD CATCH BASIN FRAME IN CURB AND GUTTER
 Item # 8
 CITY OF GREENVILLE, N.C.—ENGINEERING DEPT.

STD. NO.	REV.
35.14	



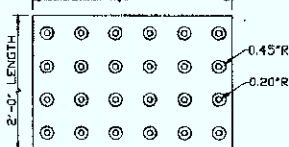
ISOMETRIC VIEW



NOTES:

1. DETECTABLE WARNING DOMES SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
2. THE RAMP MAY BE ~~BLACK IN COLOR~~ OR ANY COLOR WITH A 70% CONTRAST RATIO. **ADD APPROVED BY CITY ENGINEER.**

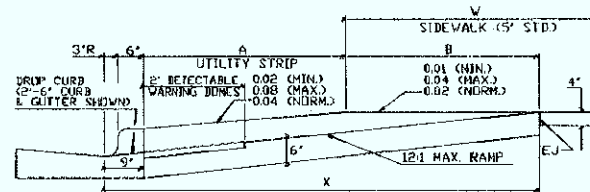
RAMP WIDTH AREA IS VARIABLE



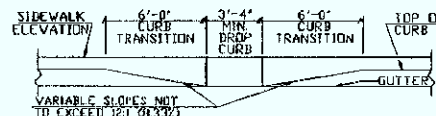
DETECTABLE WARNING DOMES

W	A	W+A+9'	X	B
5'	0.0'	5.8'	5.8'	5.0'*
6'	0.0'	6.8'	6.8'	6.0'***
7'	0.0'	7.8'	7.3'	6.5'***
8'	0.0'	8.8'	7.3'	6.5'***
5'	1.5'	7.3'	7.5'	5.2'
5'	2.0'	7.8'	7.8'	5.0'
5'	2.5'	8.3'	8.1'	4.8'
5'	3.0'	8.8'	8.3'	4.4'
5'	3.5'	9.3'	8.4'	4.1'
5'	4.0'	9.8'	9.6'	3.8'
5'	4.5'	10.3'	9.7'	3.4'
5'	5.0'	10.8'	8.9'	3.1'

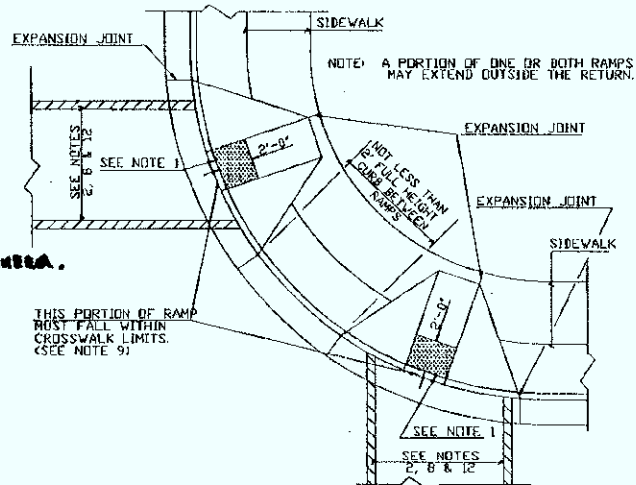
- B = X - (A + 9')
- B = DISTANCE FROM FRONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (6.33%) SLOPE.
- * BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES.
- ** BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK SLOPES 0.04.
- *** THICKNESS MAY VARY FOR APPROVED EQUAL PRECAST MATERIAL.



SECTION B-B



SECTION A-A



PLAN VIEW

REVISIONS

NO	DATE	DESCRIPTION
1	8/19/05	REVISED TO MEET ADA REQUIREMENTS

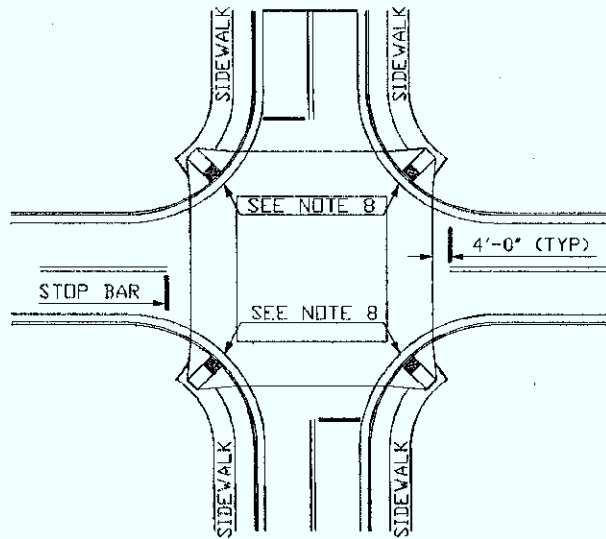
APPROVED: DATE _____

STANDARD DETAIL WHEELCHAIR RAMP

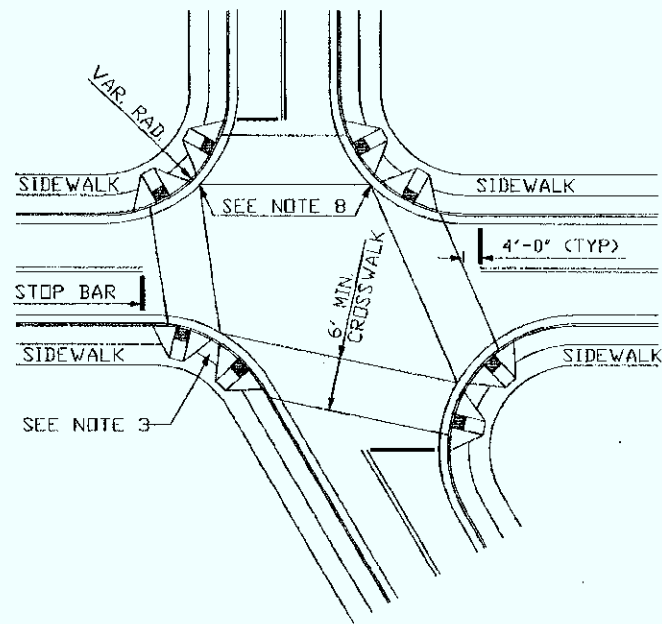
CITY OF GREENVILLE, N.C.-ENGINEERING DEPT.

STD. NO.	REV.
35.16	B

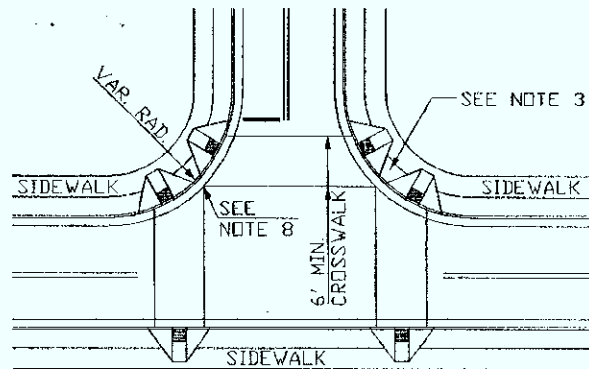
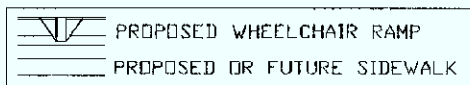
Item # 8



DETAIL SHOWING TYPICAL LOCATION OF SINGLE WHEELCHAIR RAMP, PEDESTRIAN CROSSWALKS AND STOP LINES



DETAIL SHOWING TYPICAL LOCATION OF DUAL WHEELCHAIR RAMP, PEDESTRIAN CROSSWALKS AND STOP LINES



DETAIL SHOWING TYPICAL LOCATION OF WHEELCHAIR RAMP, PEDESTRIAN CROSSWALKS AND STOP LINES FOR TEE INTERSECTIONS

REVISIONS

NO.	DATE	DESCRIPTION
1	8/19/05	REVISED TO MEET ADA REQUIREMENTS

APPROVED: DATE _____

STANDARD DETAIL WHEELCHAIR RAMP PLACEMENT
CITY OF GREENVILLE, N.C.-ENGINEERING DEPT.

Item # 8

STD. NO.	REV.
35.17	B

NOTES:

1. CONSTRUCT THE WALKING SURFACE OF THE DETECTABLE DOMES WITH SLIP RESISTANCE AND A 70% CONTRASTING COLOR TO THE SIDEWALK.
2. CROSSWALK WIDTHS AND CONFIGURATION VARY BUT MUST CONFORM TO TRAFFIC DESIGN STANDARDS.
3. PROVIDE WHEELCHAIR RAMPS AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. LOCATE WHEELCHAIR RAMPS AS DIRECTED BY THE ENGINEER WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT. WHERE TWO RAMPS ARE INSTALLED PLACE NOT LESS THAN 2 FEET OF FULL HEIGHT CURB BETWEEN THE RAMPS. PLACE DUAL RAMPS AS NEAR PERPENDICULAR TO THE TRAVEL LANE BEING CROSSED AS POSSIBLE.
4. DO NOT EXCEED 0.08 (12:1) SLOPE ON THE WHEELCHAIR RAMP IN RELATIONSHIP TO THE GRADE OF THE STREET.
5. CONSTRUCT WHEELCHAIR RAMPS 40" (3'-4") OR GREATER FOR DUAL RAMPS.
6. USE CLASS "B" CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NON-SKID TYPE SURFACE.
7. PLACE A 1/2" EXPANSION JOINT WHERE THE CONCRETE WHEELCHAIR RAMP JOINS THE CURB.
8. PLACE THE INSIDE PEDESTRIAN CROSSWALK LINES NO CLOSER IN THE INTERSECTION BY BISECTING THE INTERSECTION RADIUS, WITH ALLOWANCE OF A 4' CLEAR ZONE IN THE VEHICULAR TRAVELWAY WHEN ONE RAMP IS INSTALLED.
9. COORDINATE THE CURB CUT AND THE PEDESTRIAN CROSSWALK LINES SO THE FLOOR OF THE WHEELCHAIR RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES. PLACE DIAGONAL RAMPS WITH FLARED SIDES SO 24" OF FULL HEIGHT CURB FALLS WITHIN THE CROSSWALK MARKINGS ON EACH SIDE OF THE FLARES.
10. CONSTRUCT THE PEDESTRIAN CROSSWALK A MINIMUM OF 6 FEET. A CROSSWALK WIDTH OF 10 FEET OR GREATER IS DESIRABLE.
11. USE STOP LINES, NORMALLY PERPENDICULAR TO THE LANE LINES, WHERE IT IS IMPORTANT TO INDICATE THE POINT BEHIND WHICH VEHICLES ARE REQUIRED TO STOP IN COMPLIANCE WITH A TRAFFIC SIGNAL, STOP SIGN OR OTHER LEGAL REQUIREMENT. AN UNUSUAL APPROACH SKEW MAY REQUIRE THE PLACEMENT OF THE STOP LINE TO BE PARALLEL TO THE INTERSECTING ROADWAY.
12. PLACE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION AND THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD.
13. OTHER DETECTABLE WARNING MATERIALS MAY BE CONSIDERED FROM THAT SHOWN, BUT REQUIRE CITY ENGINEER'S WRITTEN APPROVAL PRIOR TO INSTALLATION.
14. FOR ALL ROADS WITH RADII 25' OR LESS, ONLY ONE WHEELCHAIR RAMP IS REQUIRED. WHEELCHAIR RAMPS TO BE PLACED AS PER TRAFFIC DESIGN STANDARDS TO INSURE PEDESTRIANS ENTER & EXIT WITHOUT ENTERING TRAVEL LANES.

REVISIONS

NO	DATE	DESCRIPTION
1	8/19/05	REVISED TO MEET ADA REQUIREMENTS

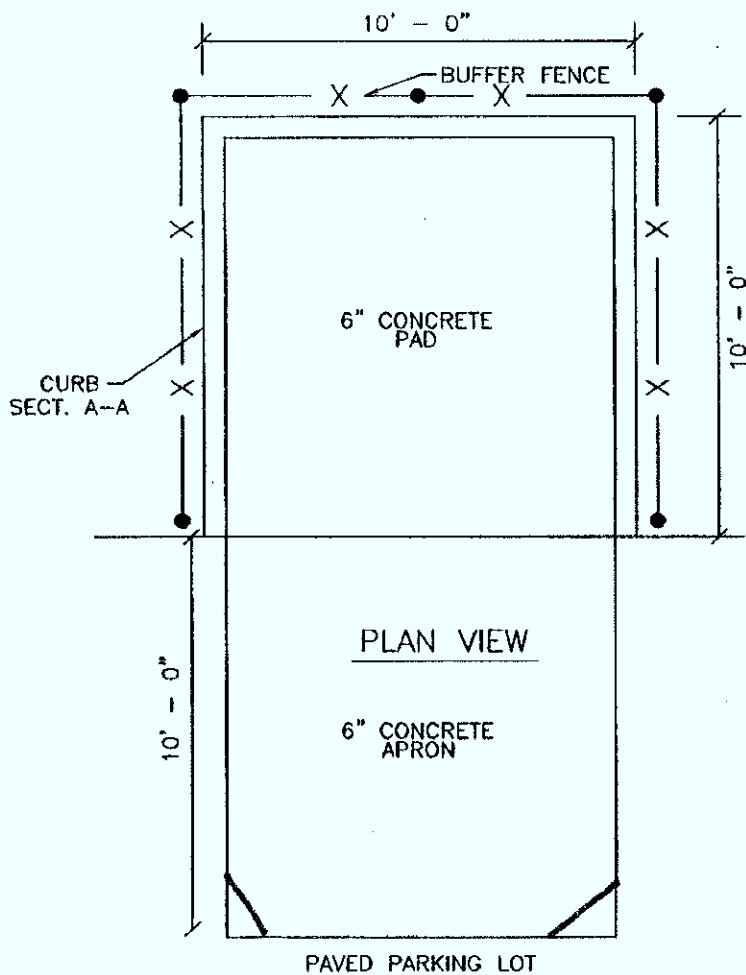
APPROVED DATE _____

STANDARD WHEELCHAIR RAMP NOTES

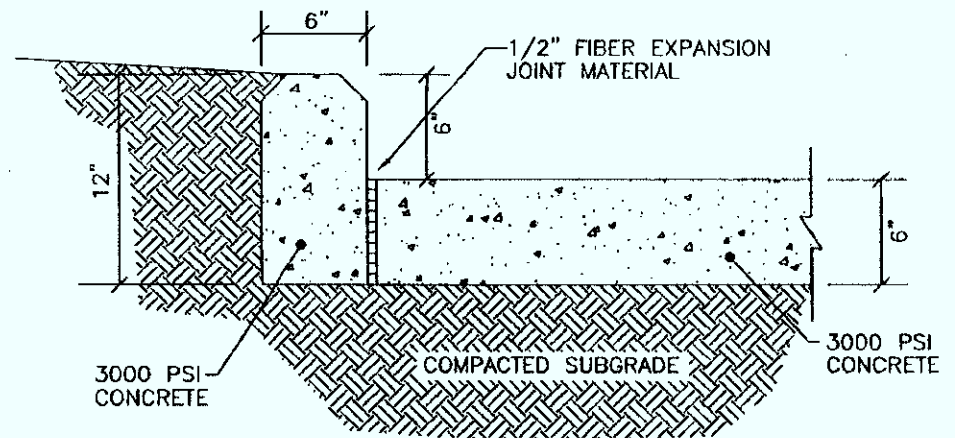
CITY OF GREENVILLE, N.C.-ENGINEERING DEPT.

Item # 8

STD. NO.	REV.
35.18	B

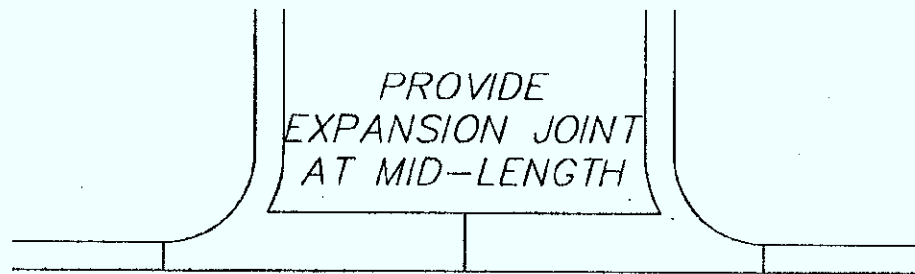


** May be replaced with
standard curb + gutter*

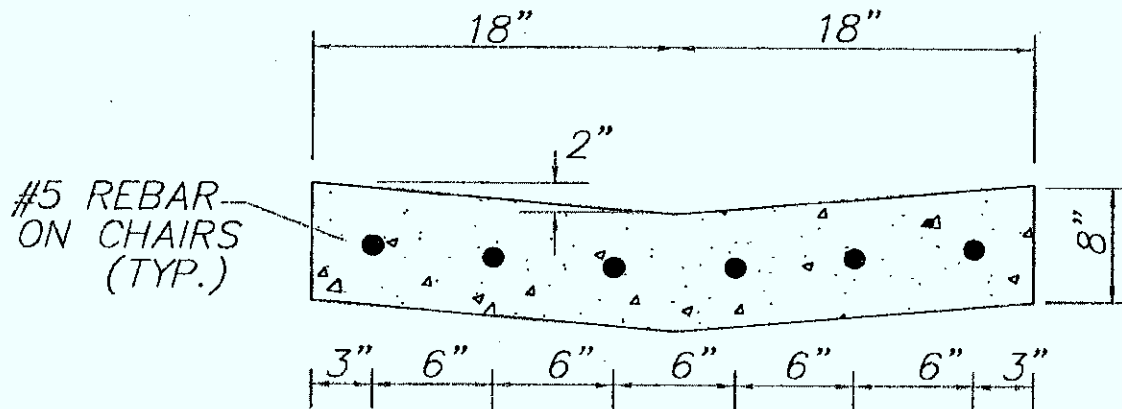


CONTAINER PAD MUST BE FLUSH WITH
PARKING LOT PAVEMENT.

DUMPSTER PAD DETAIL

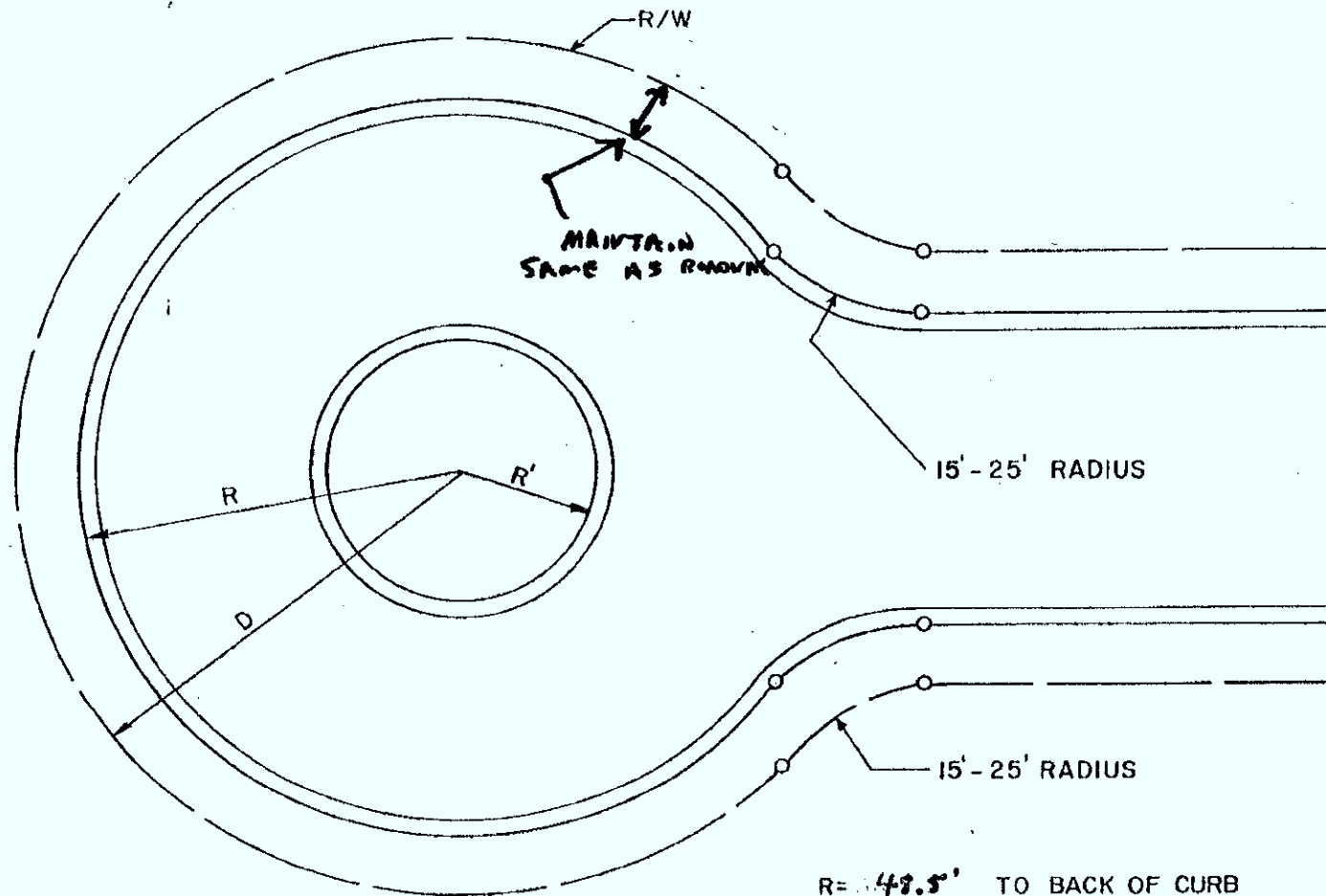


PLAN



SECTION

CONCRETE VALLEY GUTTER



NOTE: INTERIOR ISLAND IS NOT REQUIRED.

- 1.) ISLAND NOT PART OF R/W (COMMON SPACE)
- 2.) ISLAND TO BE MAINTAINED BY HOA.
- 3.) NO PARKING IN CULDESAC.
- 4.) MAINTAIN CURB OF ISLAND.

R = 48.5' TO BACK OF CURB
 R' = 0' - 15' TO BACK OF CURB
 D = VARIES
 CUL DE SAC MAY BE OFFSET FROM CENTERLINE OF STREET

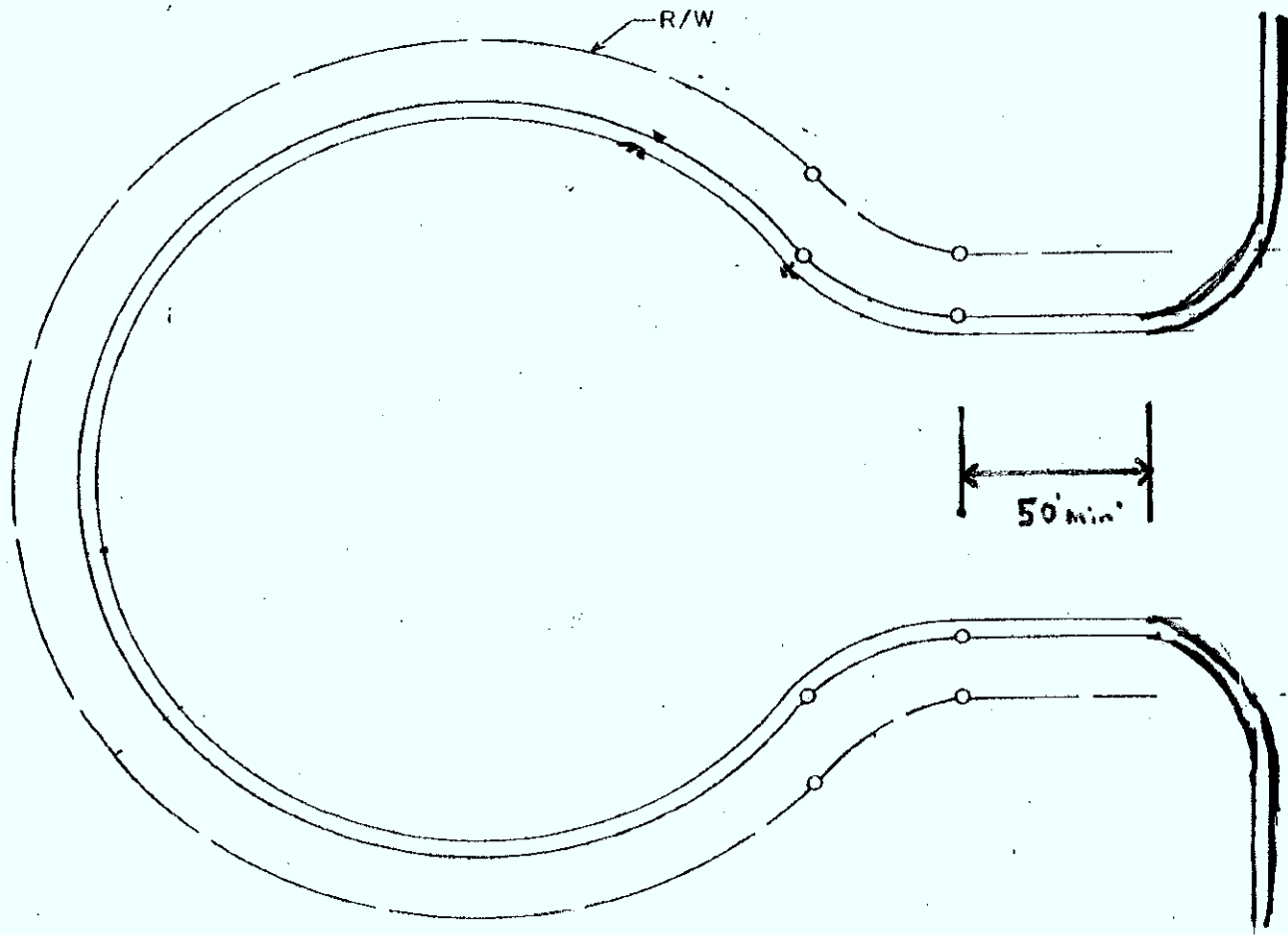
REVISIONS		
NO.	DATE	DESCRIPTION
1	2/2/88	ADDED NOTE

APPROVED: DATE 1-8-81

STANDARD CUL DE SAC

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

STD. NO.	REV.
35.23	1



REVISIONS

NO.	DATE	DESCRIPTION

APPROVED: DATE 10-01

MINIMUM CUL DE SAC LENGTH

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

STD. NO.	REV.
	1

Item # 8

ALL DEAD END ACCESS ROADS IN EXCESS OF 150 FEET SHALL BE PROVIDED WITH A PROPER FIRE APPARTUS TURNAROUND AS APPROVED IN APPENDIX D OF THE LATEST ADDITION OF THE NORTH CAROLINA FIRE CODE.

REVISIONS

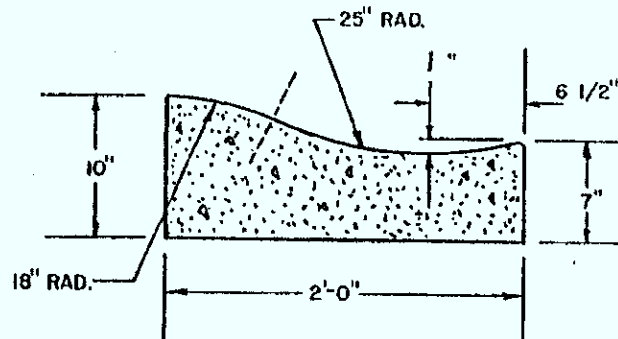
NO.	DATE	DESCRIPTION

APPROVED: DATE Mar. 12, 1981

TURNAROUND PROVISIONS

CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

STD. NO.	REV.
35.24	



GENERAL NOTES:

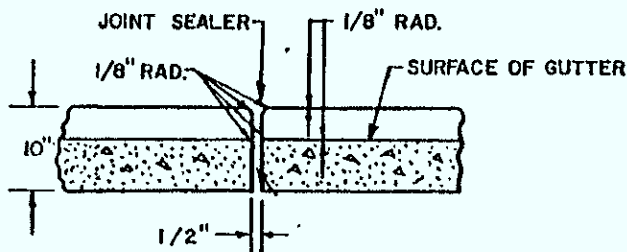
ALL CURB AND GUTTERS ARE TO BE POURED WITH CLASS "A" CONCRETE. (3,000 PSI)

FLEXIBLE FORMS ARE TO BE USED WHEN RADII IS LESS THAN 200'.

CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.

CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1-1/2" SHALL BE OBTAINED.

EXPANSION JOINTS SHALL BE SPACED AT 90' INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS.



**TRANSVERSE EXPANSION JOINT
IN CURB AND GUTTER**

REVISIONS

NO.	DATE	DESCRIPTION

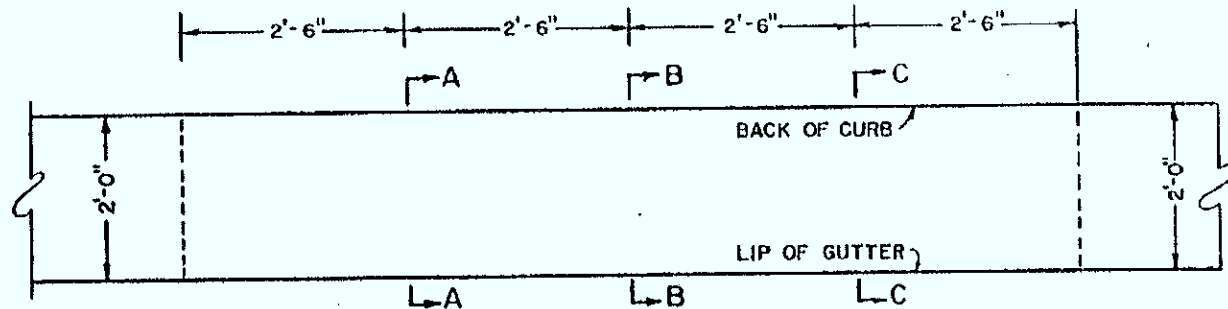
APPROVED: DATE SEPT. 4, 1989

STANDARD ROLL-TYPE CURB AND GUTTER

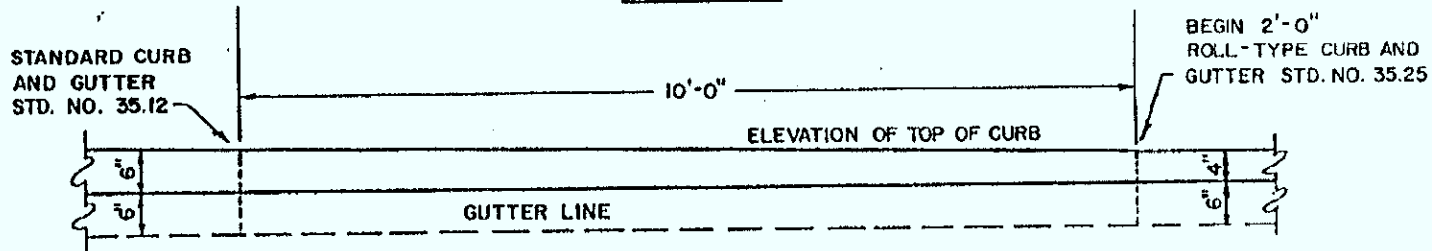
CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

Item # 8

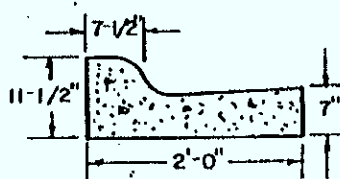
STD. NO.	REV.
75 05	



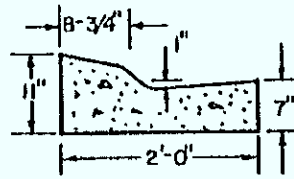
PLAN VIEW



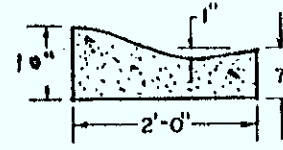
FRONT ELEVATION



SECTION A-A



SECTION B-B



SECTION C-C

GENERAL NOTES:

TRANSITION IS NOT TO BE LOCATED WITHIN THE CURB RADIUS.

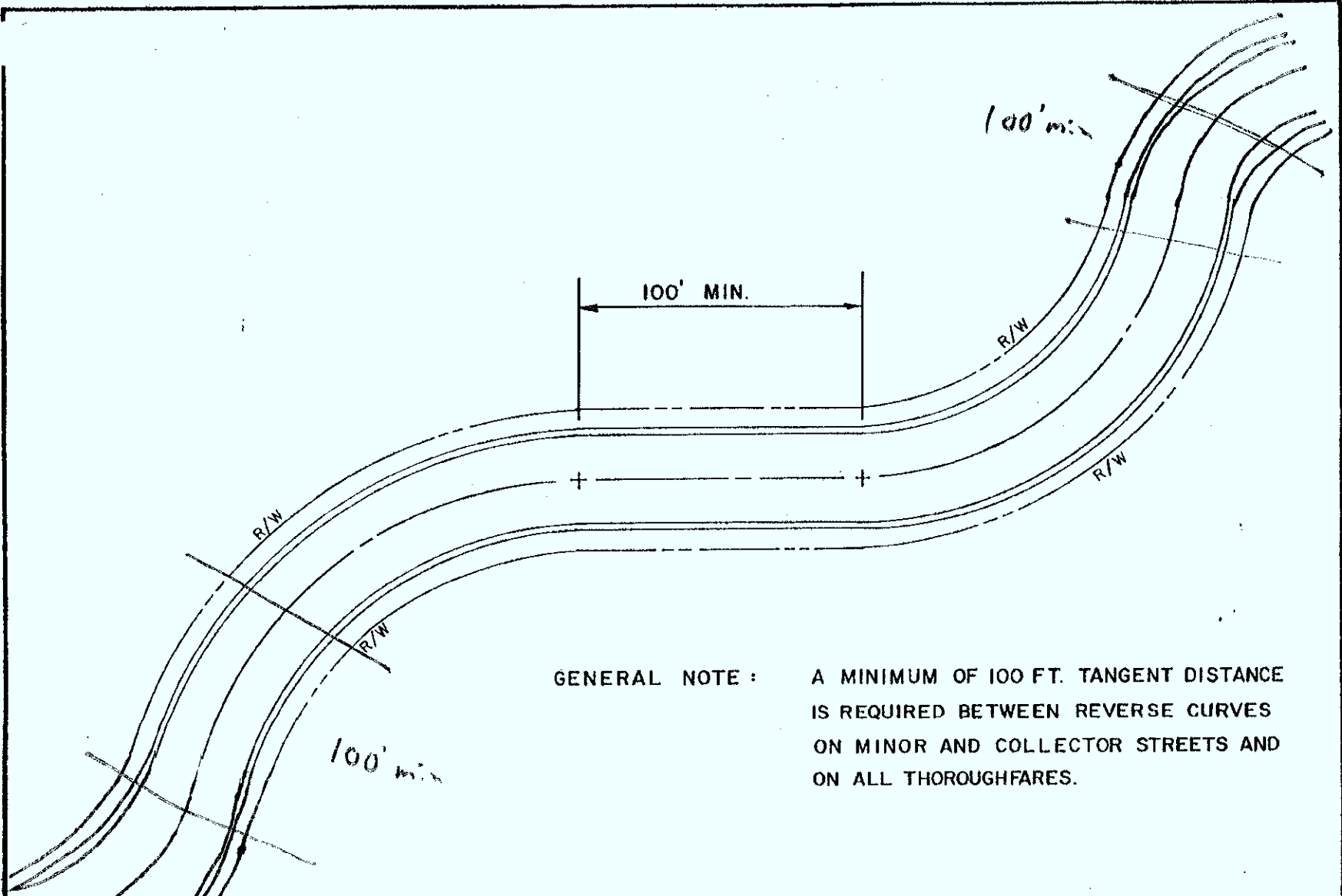
REVISIONS

NO.	DATE	DESCRIPTION

APPROVED: DATE SEPT. 14, 1989

CURB TRANSITION
2'-0" CURB AND GUTTER TO 2'-0" ROLL TYPE CURB AND GUTTER
CITY OF GREENVILLE, N.C. — ENGINEERING DEPT.

STD. NO.	REV.
35.26	



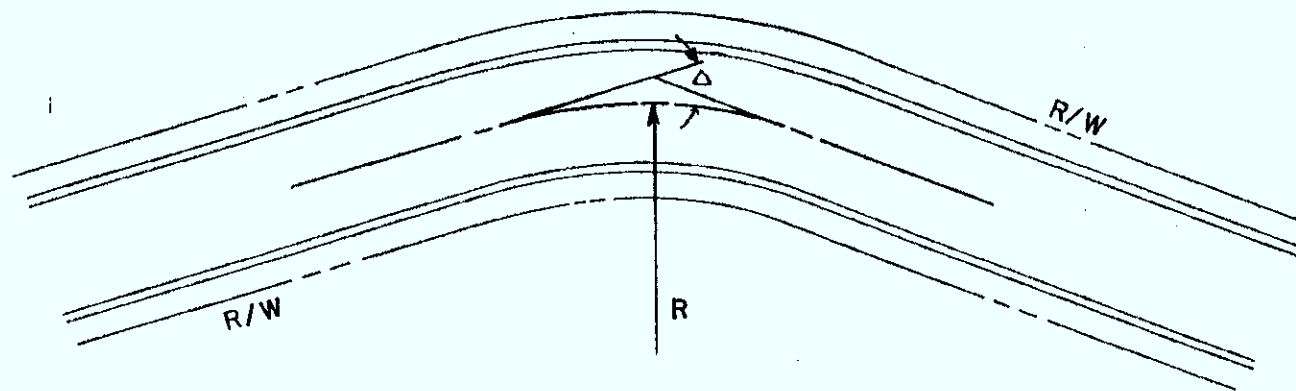
GENERAL NOTE : A MINIMUM OF 100 FT. TANGENT DISTANCE IS REQUIRED BETWEEN REVERSE CURVES ON MINOR AND COLLECTOR STREETS AND ON ALL THOROUGHFARES.

REVISIONS		
NO.	DATE	DESCRIPTION

APPROVED: DATE SEPT. 14, 1989

TANGENT DISTANCES AT REVERSE CURVES
 CITY OF GREENVILLE, N.C.—ENGINEERING DEPT.

STD. NO.	REV.
35.29	



GENERAL NOTE : WHEN CONNECTING STREET CENTERLINES DEFLECT FROM EACH OTHER AT ANY ONE POINT BY MORE THAN FIVE DEGREES, ($\Delta > 5^\circ$), THEY SHALL BE CONNECTED BY A CURVE WITH A RADIUS OF NOT LESS THAN 100 FEET ($R \geq 100'$) FOR MINOR STREETS. FOR COLLECTOR STREETS AND THOROUGHFARES, THE RADIUS SHOULD BE SUFFICIENT TO INSURE A SIGHT DISTANCE ADEQUATE FOR VISABILITY AND SAFETY, CONSIDERING THE CHARACTER OF THE STREET AND THE TYPES AND SPEED OF TRAFFIC ANTICIPATED, BUT IN NO CASE SHALL SUCH RADIUS BE LESS THAN 200 FEET ($R \geq 200$).

REVISIONS

NO.	DATE	DESCRIPTION

APPROVED: DATE SEPT. 14, 1989

CURVE RADIUS AT DEFLECTING STREET LINES

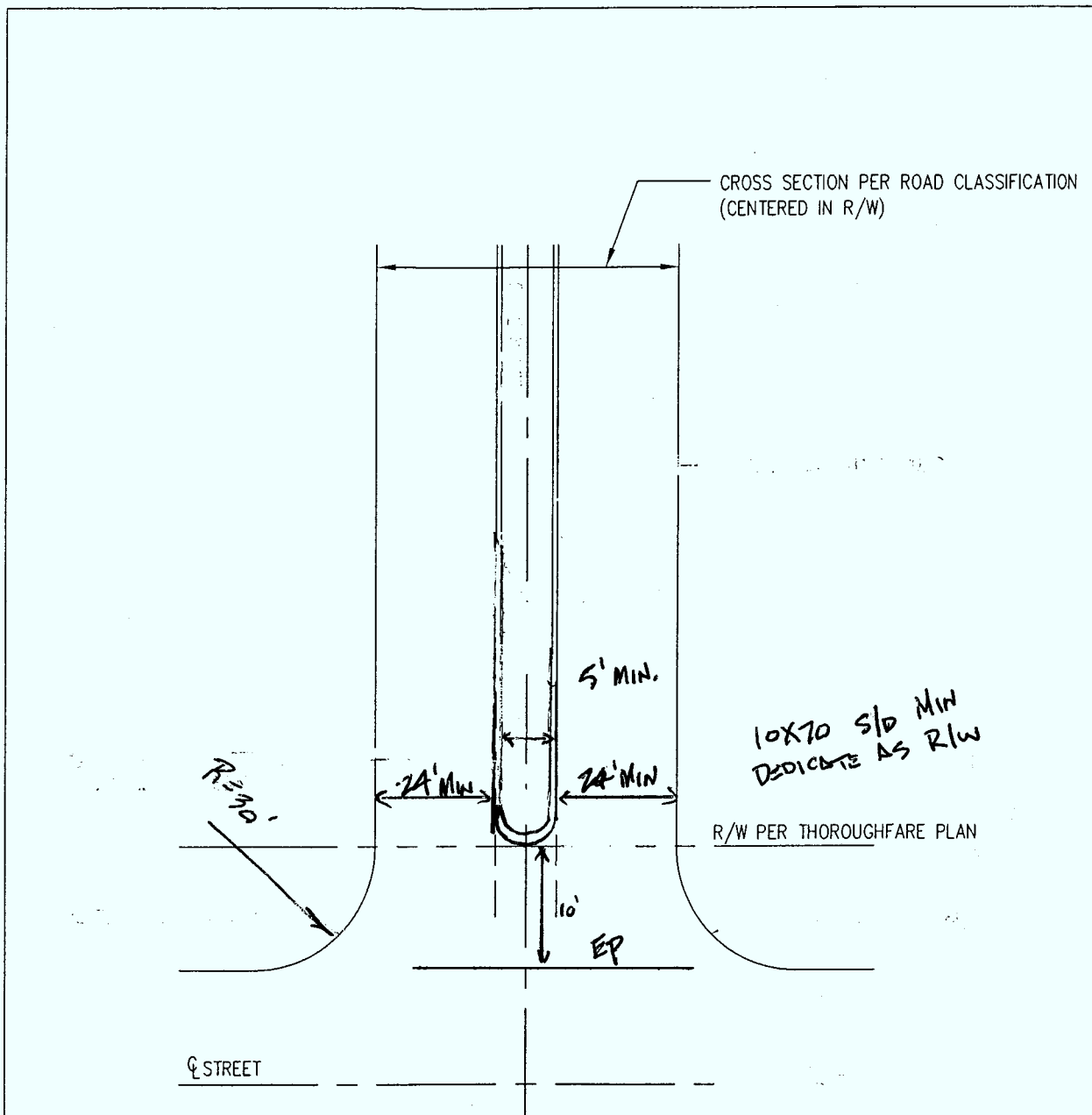
CITY OF GREENVILLE, N.C.—ENGINEERING DEPT.

STD. NO.	REV.
35.30	

Vertical Curve Table

(mph) Design Speed	(ft) Min Stopping Sight Distance	(ft) Min CL Radius	(ft) K (crest)	(ft) K (Sag)	(ft) K (Stop)
25	155	150	26	26	12
30	200	230	37	37	19
35	250	340	49	49	29
40	305	475	64	64	44
45	360	640	79	79	61
50	425	825	96	96	84
55	495	1050	115	115	114

VERTICAL CURVE DESIGN TABLE



ISLANDS OR SHORT MEDIANS AT SUBDIVISION ENTRANCES

THE CITY OF GREENVILLE WILL REVIEW REQUEST FOR THE ALLOWANCE OF ISLANDS OR SHORT MEDIANS DESIRED FOR AESTHETICS ON THE CITY OF GREENVILLE ROAD SYSTEM AT THE ENTRANCE TO SUBDIVISIONS. APPROVAL WILL BE WITH THE FOLLOWING UNDERSTANDING:

1. THE CITY ENGINEER MAY ALLOW THE ISLAND OR MEDIAN SECTION AFTER REVIEW ON AN INDIVIDUAL BASIS. DETAILED PLANS ARE REQUIRED SHOWING ALL PROPOSED PLANTINGS, AND STRUCTURES INCLUDING BUT NOT LIMITED TO SIGNAGE, LIGHTING AND IRRIGATION. ALL STRUCTURES REQUIRE AN ENCROACHMENT AGREEMENT APPROVED BY CITY COUNCIL.
2. THE CITY WILL NOT MAINTAIN THE ISLAND OR MEDIAN SECTION, THIS IS THE SOLE RESPONSIBILITY OF THE DEVELOPER AND/OR PROPERTY OWNERS ASSOCIATION.
3. THE ISLAND OR MEDIAN SECTION WILL BE REMOVED IF NOT PROPERLY MAINTAINED.
4. ISLAND WIDTH SHALL BE A MINIMUM OF 5' BACK OF CURB TO BACK OF CURB OR 5 FEET FROM THE FACE OF THE STRUCTURE TO THE BACK OF CURB. NO STRUCTURE OR SIGN SHALL EXCEED 42" IN HEIGHT ABOVE THE TOP OF PAVEMENT EXCEPT STREET LIGHTING.

	STANDARD DRAWING
MEDIAN ISLAND AT SUBDIVISION OR COMMERCIAL ENTRANCE	Item # 8



City of Greenville, North Carolina

Meeting Date: 4/8/2010
Time: 7:00 PM

Title of Item: Annual Action Plan for HOME Investment Partnership and Community Development Block Grant Programs


Explanation: The HOME Investment Partnership Program (HOME) and Community Development Block Grant (CDBG) funding require the City and all participating jurisdictions to prepare and submit an Annual Action Plan specifying how the City will spend funds and specify expenditure purposes. The Housing Division is in the process of identifying activities for the upcoming 2010-2011 fiscal year in accordance with the City of Greenville Consolidated Plan, which covers fiscal years 2008-2013. An Annual Action Plan must be submitted for each year of the five-year Consolidated Plan.

The Annual Action Plan process requires two public hearings to give citizens the opportunity to participate in the plan development process and provide comments. This is the final public hearing before staff submits the plan to the U.S. Department of Housing and Urban Development for approval.

Fiscal Note: Federal funding is contingent upon a Congressional budget appropriation to the U.S. Department of Housing and Urban Development. Staff estimates that 2010-2011 fiscal year HOME funds will be approximately \$750,000 and CDBG funding to be about \$814,000. The final award is subject to change pending the the U.S. Department of Housing and Urban Development's final determination.

Recommendation: Hold the final public hearing for citizen participation, consider citizen input, and approve the proposed Annual Action Plan and attached resolution.

Attachments / click to download

 [Action Plan resolution 691613](#)

 [2010 CDBG HOME budget 852295](#)

 [2010 budget descriptions 852520](#)

 [2010 Annual Action Plan 855743](#)

RESOLUTION NO. 10-____
A RESOLUTION ENDORSING THE SUBMISSION OF THE 2010-2011 ANNUAL ACTION PLAN FOR THE CITY OF GREENVILLE, NORTH CAROLINA

WHEREAS, the City of Greenville recognizes the benefits of the Community Development Block Grant and HOME Investment Partnership Programs in providing local governments with the resources to develop viable communities by funding activities that principally benefit low and moderate income persons; and

WHEREAS, the City of Greenville recognizes the need to assist low income and special needs populations of the City with Community Development Block Grant and HOME Investment Partnership funds; and

WHEREAS, the Congress and nation acknowledge the critical value of the Community Development Block Grant and HOME Investment Partnership Programs and the significant projects that rely upon its funding;

NOW THEREFORE BE IT RESOLVED that the 2010-2011 Community Development Block Grant and HOME Investment Partnership Programs of the City of Greenville be established by:

1. Authorizing the Mayor to execute approval documents required for the submission of the Annual Action Plan for the 2010-2011 fiscal year following the close of the public hearing.
2. Authorizing the City Manager to enter into contracts with Community Housing Development Organizations approved for the 15% CHDO set-aside.
3. Authorizing the City Manager to enter into contracts with Subrecipients approved for HOME and CDBG activities.
4. Authorizing the City Manager or designee to carry out 2010-2011 activities approved in the Annual Action Plan.
5. Authorizing the Director of Community Development or designee to implement such policies and procedures required by the programs, as attached to the Annual Action Plan.

Resolved this the 8th day of April, 2010.

Patricia C. Dunn, Mayor

ATTEST:

Wanda T. Elks, City Clerk

FY 2009 Annual Action Plan

CITY OF GREENVILLE

Proposed Uses of Federal & Local Funds in FY 2010

(Leveraging Of Funds)

Program / Activity	CDBG Funds	HOME Funds	Other Federal	Housing Bonds	Local Funds	Total	Proposed Units
HOUSING							
AFFORDABLE HOUSING							
Downpayment Assistance	\$0	\$135,000	\$0	\$0	\$30,000		8
Housing Rehabilitation	\$360,000	\$250,000	\$300,000		\$0		10
New Construction	\$0	\$175,000	\$0	\$150,000	\$0		4
Sub-Total	\$360,000	\$560,000	\$300,000	\$150,000	\$30,000	\$1,400,000	22
ADMINISTRATION							
City of Greenville	\$162,000	\$75,000	\$0	\$0	\$150,000		8
Sub-Total	\$162,000	\$75,000	\$0	\$0	\$150,000	\$387,000	8
CHDO							
		\$115,000	\$0	\$0	\$0		1
Sub-Total	\$0	\$115,000	\$0	\$0	\$0	\$115,000	1
PUBLIC SERVICE							
Housing Counseling		\$0	\$0	\$0	\$0		35
Job Training		\$0	\$0	\$0	\$0		15 jobs
Counseling & Outreach		\$0	\$0	\$0	\$0		15
Homeless-10 year Plan		\$0	\$0	\$0	\$0		1 job
Youth Development		\$0	\$0	\$0	\$0		
Contingency	\$122,000	\$0	\$0	\$0	\$0		
Sub-Total	\$122,000	\$0	\$0	\$0	\$0	\$122,000	50
REVITALIZATION							
Acquisition	\$60,000	\$0	\$0	\$0	\$0		4
Clearance/Demolition	\$30,000	\$0	\$0		\$0		4
Relocation	\$10,000	\$0	\$0		\$0		4
Public Facility Improvements	\$70,000	\$0	\$0	\$0	\$0		5
Sub-Total	\$170,000	\$0	\$0	\$0	\$0	\$170,000	17
Total	\$814,000	\$750,000	\$300,000	\$150,000	\$180,000	\$2,194,000	98
ECONOMIC DEVELOPMENT							
Infrastructure Improvement		\$0	\$0	\$0	\$0		
Business Incubator		\$0	\$0	\$0	\$0		
Economic Development Total	\$0	\$0	\$0	\$0	\$0	\$0	0
PROGRAM INCOME							
Housing Rehab	\$4,000	\$0	\$0	\$0	\$0		1
Downpayment Assistance	\$0	\$10,000	\$0	\$0	\$0		1
Administration	\$1,000	\$1,000					
Program Income Total	\$5,000	\$11,000	\$0	\$0	\$0	\$16,000	2
PROGRAM DELIVERY							
Program Delivery Total	\$0	\$0	\$0	\$0	\$0	\$0	0
GRAND TOTALS							
GRAND TOTALS	\$819,000	\$761,000	\$300,000	\$150,000	\$180,000	\$2,210,000	100

FY 2010 Budget Descriptions

Program Administration

Description: A maximum of 20% of CDBG and 10% of HOME funds are allocated to cover program implementation, management, coordination, monitoring and evaluation expenses, which will include staff salaries, wages, and related costs. Program administration includes providing local officials and citizens with information about the program; preparing program budgets and schedules; developing interagency agreements with subrecipients and contractors; monitoring program activities for compliance; preparing reports and other documents related to the program for submission to HUD; coordinating resolution of audit and monitoring findings; evaluating program performance; managing and supervising program staff; and travel and training.

Downpayment Assistance

Description: Funds allocated to assist low income residents with “gap financing” in the form of downpayment and closing costs assistance in the purchase of newly constructed homes in the West Greenville 45-Block Revitalization Area or existing homes citywide.

Housing Rehabilitation

Description: Funds allocated to assist low-income homeowners with rehabilitating existing single-family units citywide. The primary intent of this activity is to bring units up to building code and provide decent, safe and sanitary living environments.

New Construction

Description: Funds allocated to construct new single-family units in the West Greenville 45 Block Revitalization Area for low-income first-time homebuyers.

Community Housing Development Organizations (CHDO)

Description: As per HOME requirements, 15% of HOME funds are allocated for certified CHDO's to develop, own or sponsor affordable housing in the West Greenville 45-Block Revitalization Area.

Public Service

Description: A maximum 15% of CDBG funds will be allocated to assist nonprofit organizations with funding for programs those targets homeless and special needs persons, youth development, victims of domestic/family violence, job training, and housing counseling.

Public Facilities Improvement

Description: Funds allocated to assist nonprofits with minor repairs to improve facilities that serve low to moderate income citizens.

Acquisition

Description: Funds allocated to acquire substandard and dilapidated properties in the West Greenville 45 Block Revitalization Area for future development of affordable housing.

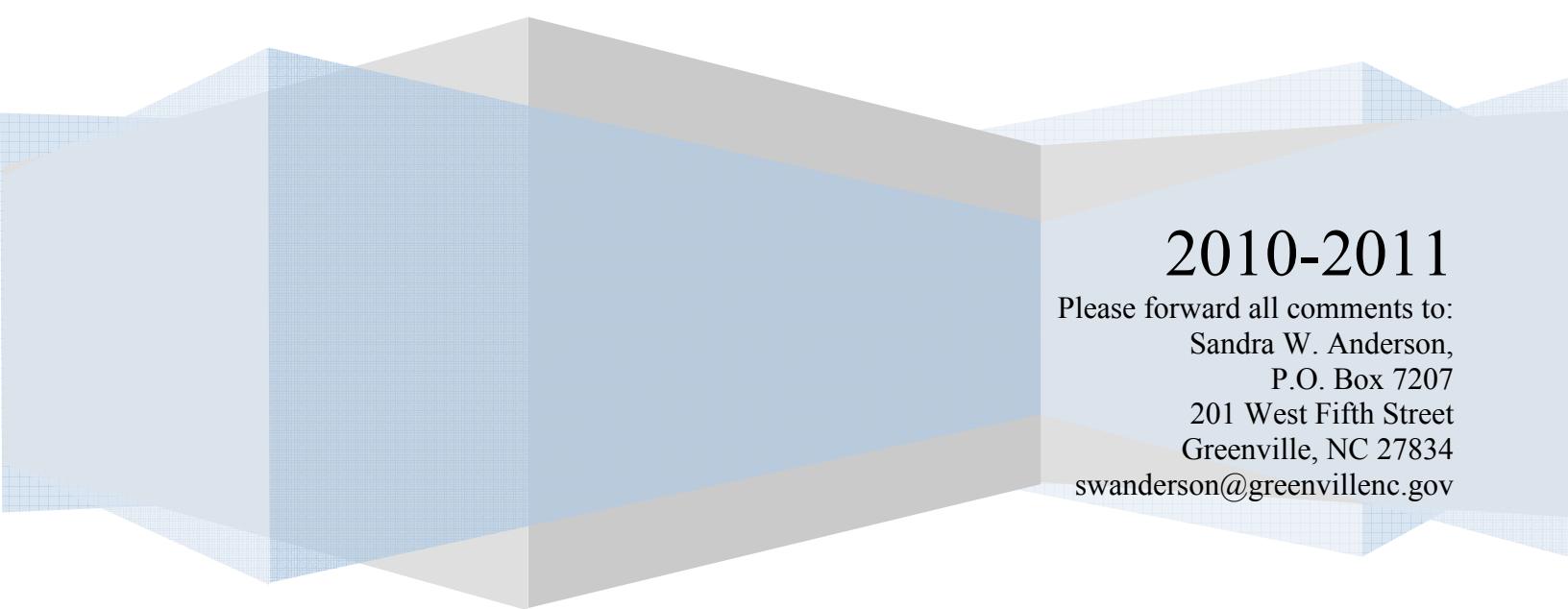
Relocation/Displacement

Description: Funds allocated to assist tenants that may be displaced per Federal Uniform Relocation Assistance Regulations as a result of acquisition.

draft

City of Greenville, N. C.

ANNUAL ACTION PLAN



2010-2011

Please forward all comments to:
Sandra W. Anderson,
P.O. Box 7207
201 West Fifth Street
Greenville, NC 27834
swanderson@greenvillenc.gov

DRAFT

TABLE OF CONTENT

I.	Executive Summary	
	A. Purpose	4
	B. Background	4
	C. Geographic Area	5
	D. Geographic Allocation of Investments	5
	E. Strategies to Meeting the Underserved Need	5
 II.	 Source of Funds	
	A. CDBG Program	9
	B. HOME Investment Partnership	9
	C. American Recovery and Reinvestment Act 2009	10
	D. Affordable Housing Bond Program	11
	E. Funding Summary Chart	12
 III.	 Citizen Participation Plan	 13
 IV.	 One Year Action Plan	
	A. Introduction	13
	B. Performance Measurement	14
	C. 2010-2011 Action Plan Projects	16
	D. CDBG/HOME Funding Chart	21
 V.	 Other Actions	
	A. Affirmatively Furthering Fair Housing	22
	B. Analysis of Impediments to Fair Housing	22
	C. Affirmative Marketing Policy	27
	D. Women/Minority Business Outreach	28
	E. Evaluation and Reduction of Lead-Based Paint Hazard	28
	D. Anti-Poverty Strategy	29
	E. Developing Institutional Structures	29
	F. Public Housing	30
	G. Recapture Provisions	30
 VI.	 Monitoring Plan	
	A. HOME Program Schedule	32
	B. CDBG Program Schedule	34
 VII.	 Strategic to Eliminate Homelessness	
	A. Continuum of Care	34

DRAFT

B. Ten-Year Plan to End Homelessness

35

APPENDICES

- A** Required HUD forms
- B** Maps
 - West Greenville 45 Block Revitalization areas
 - Census Tracts
- C** Resolutions
- D** Legal Advertisements
- E** Citizen Participation Plan
- F** Anti Displacement and Relocation Plan
- G.** Ten Year Plan to End Chronic Homelessness in Pitt County
- H.** Affirmative Marketing Policy

DRAFT

I. EXECUTIVE SUMMARY

A. Purpose

The Action Plan is a requirement of the Department of Housing and Urban Development (HUD) as a condition of receiving funding under certain federal programs. The goal of the Plan is to extend and strengthen partnerships among the public and private sector to provide decent housing, establish and maintain a suitable living environment and expand economic opportunities.

This plan serves as the City's application for federal funding for the following federal entitlement programs:

- Community Development Block grant (CDBG)
- HOME Investment Partnership Program
- Emergency Shelter Grant (ESG)
- Neighborhood Stabilization Program
- Rapid Re-housing Program

B. Background

The 2010-2011 Annual Action Plan represents the third year of the City of Greenville Consolidated Plan. The current Consolidated Plan was approved on May 8, 2008, by the City Council. The plan identifies a comprehensive strategy to address community needs for the five-year period 2008-2013. The plan associates goals and objectives with current needs throughout the five-year period. The goals and objectives identified guide staff in selecting activities to be carried out during each fiscal year. The top priorities and goals determined in the Consolidated Plan include the following:

1. Revitalization of several neighborhoods in West Greenville that are in a state of decline through:
 - Rehabilitation of owner occupied units.
 - Acquisition and demolition of dilapidated rental housing.
 - Acquisition of vacant parcels to assemble land for suitable building sites
 - Construction of affordable housing in West Greenville Revitalization area.
 - Establishing a neighborhood commercial focus area.
 - Preserving historical business district along Albemarle Avenue and West Fifth Street.
 - Conversion of rental dwellings to owner occupants with downpayment assistance.
 - Identification of infrastructure improvements.
 - Improving but preserving the neighborhood character.
 - Developing programs and services with the private sector that will aid in the success of revitalization efforts.
 - Landscaping/Streetscape improvements.

DRAFT

2. Supporting nonprofits that provide housing assistance to special needs populations, provide youth services, and encourage entrepreneurship.
3. Providing homebuyer assistance for first-time homebuyers.
4. Continue to eliminate lead-based paint hazards in dwellings assisted with federal funding.

C. Geographic Area

The City of Greenville, North Carolina is located in the coastal plains area of the State, in Pitt County. It is geographically located 84 miles east of Raleigh, 157 miles south of Richmond, VA, and 265 miles south of Washington, DC. Greenville is the tenth largest city in North Carolina (pop. 81,932). From 1990 to 2000, the population increased by more than one-third, growing by 34.3 percent from 44,972 in 1990 to 60,385 in 2000. Over the past 20 years the community has experienced dramatic growth. Greenville is slowly emerging as a major industrial and economic center for Eastern North Carolina – a center for education, industry, medicine and culture.

D. Geographic Allocation of Investment

Program activities carried out by the City of Greenville will occur throughout the City, but some specifically within the West Greenville 45-Block Revitalization Area (**Appendix B**). This area can be defined as bounded on the north by West Fifth Street, on the west by Bancroft Street, on the east by Albemarle Avenue and to the south by Fleming Street. The area involved has been a target area for City of Greenville housing programs for many years. Recent efforts have substantially reduced the area currently being targeted in an attempt to address greater needs in a more concentrated approach. Please see attached maps of census tracts that are areas of minority concentration and low income block groups (**Appendix B**).

Some program data indicates that minority populations comprise a majority of the targeted income groups. However, eligible persons from all racial, ethnic and gender groups are given the opportunity to participate in any of the housing programs.

DRAFT

E. Strategies to Meeting the Underserved Need

The City of Greenville has established the following strategies for meeting the needs of the underserved in the community.

1. Housing Strategies

a. Downpayment Assistance

The City of Greenville continually seeks methods for fostering and maintaining affordable housing. Funds during the 2010-2011 Program Year have been reserved for downpayment assistance to low-moderate income homebuyers within the City of Greenville. Funds will be used to address goals for increasing homeownership throughout the City. Funding from previous years has also been made available to homebuyers as downpayment assistance. Provision of downpayment assistance decreases the amount of financing and/or funding a homebuyer needs in order to purchase a home. To date, we have assisted 47 families with funding from the North Carolina Housing Finance Agency totaling \$733,889 and 49 families under the HOME Program for a total assistance of \$536,745. The City also provides assistance with local bond funds to aide with downpayment or closing costs. Bond funds are awarded to qualifying applicants as a no interest loan up to 5% of the purchase price of the home and amortized over 5 years. 29 families have received assistance totaling \$53,209.

b. Development of Affordable Housing

In an attempt to address the barriers to developing affordable housing, the City of Greenville continues to create single family affordable housing opportunities. The lots are purchased by the City with funding from approved public bonds. Upon acquisition and installation of infrastructure, the City then makes lots available to nonprofit agencies for development. All submitted proposals are accepted based on a reasonable price per square foot and the nonprofit's ability to meet building specifications as required by the Request for Proposal. Purchase of the land and improvements increases the affordability of the lots in turn reducing the cost to the homebuyer. As lots are sold to eligible homebuyers, the funds for the lot cost are recaptured and used to fund future developments.

c. Partnerships

The City of Greenville partners with local nonprofit agencies to provide Homeownership Counseling & Workshops for potential homebuyers. The City additionally also offers a Homeownership Academy that provides participants with the opportunity to gain a working knowledge of the home buying process and to prepare financially to purchase a home within the West Greenville 45 Block Revitalization Area. At the completion of the program, participants receive a certificate for \$500.00 redeemable at closing to assist with the purchase of an existing or new home within the West Greenville 45 Block Revitalization Area.

DRAFT

d. Support of Habitat for Humanity

The City of Greenville also supports the Pitt County Habitat for Humanity as another housing resource. Funding from our CDBG Subrecipient Program is made available for housing providers such as Habitat to acquire lots.

2. Community Development Strategies

a. Revitalization

The intended actions in the West Greenville Area Revitalization Redevelopment Plan are to build upon the strengths of the area and remove obstacles that limit the possibilities for success. The goals of the plan in this area are to increase the levels of homeownership, remove blighting influences, improve the public infrastructure, create continuous and ongoing programs with service providers to address the social issues of the community and to provide quality economic development and commercial opportunities for the area and for its residents.

b. Multifamily Development

Two new housing developments were completed in 2010 in Greenville's Center City. Nathaniel Village, an affordable family oriented multi-family development made possible through a joint venture between the Redevelopment Commission and Landmark Development, a housing developer headquartered in Winston-Salem, North Carolina. Once completed, Nathaniel Village will offer 48 units and 104 bedrooms of high quality apartment living to residents wishing to live in proximity to Greenville's historic Uptown Commercial District.

Three blocks to the north along the scenic banks of the Tar River, First Street Place student living got underway which will offer 228 bedrooms in 193 units of upscale apartment living to a clientele expected to be largely comprised of upper division students attending East Carolina University. Together, these two projects represent the first significant housing development in Greenville's Center City in more than two decades.

c. Infrastructure Improvements

Planning and design work continued in 2010 on three major public infrastructure projects that collectively will help to reshape the functionality and image of Greenville's Center City. Two streetscape projects, the West Fifth Street Gateway and the Cotanche and Reade project will respectively improve aesthetics, vehicular and pedestrian safety, and will provide Greenville's citizens with a first of its kind opportunity – municipally sponsored public art.

DRAFT

3. Economic Development Strategies

a. Façade & Site Improvement Grant Program

Maintaining the architectural quality and aesthetic appeal of commercial and office structures in the West Greenville Redevelopment Area is an important part of the overall strategy to restore the economic vitality of West Greenville. Proper improvements to the exterior of individual buildings will help to develop an image that will invite additional investment into the area.

The Greenville Redevelopment Commission has developed the Building Blocks Façade and Site Improvement Grant Program in order to provide an incentive to property and business owners to make improvements to their properties. These guidelines should be followed by property owners, tenants, architects and contractors involved in exterior improvements or rehabilitation to buildings in the West Greenville Redevelopment Area.

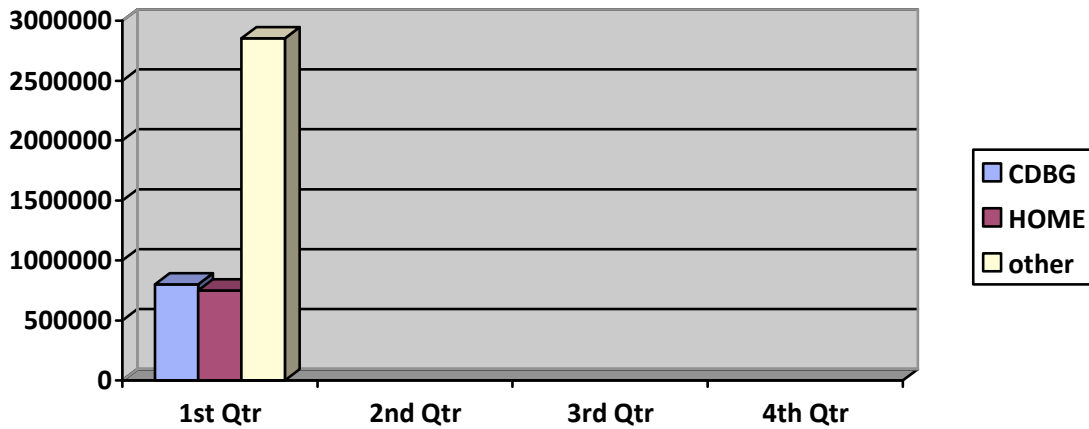
b. Small Business Incubator

The Redevelopment Commission of Greenville has contracted with the Small Business and Technology Development Center (SBTDC), a state agency, to study the feasibility of establishing a small business incubator within the geographic bounds of the West Greenville Redevelopment Area. The incubator mission will be to create an open, business-first small business incubator that will cultivate entrepreneurship, and promote economic development and community revitalization within the West Greenville Redevelopment Area. It is anticipated that CDBG funds will be used to supplement the project.

DRAFT

II. SOURCES OF FUNDS

Resources available to support activities identified in the Consolidated Plan and this Annual Action Plan will include Community Development Block Grant funds, HOME Investment partnership, Lead Based Paint Hazard Control Program, general revenues, local Bond program, North Carolina Housing Finance Agency, private lending institutions and private developers.



A. CDBG Program

The Housing and Community Development Act of 1974 created the Community Development Block Grant program in 1974. Since 1975, the City of Greenville has participated in the program with a variety of activities. The City of Greenville became an Entitlement in 1994. As an Entitlement, the City receives an annual allocation of funding from the U.S. Department of Housing and Urban Development. The primary objective of CDBG is the development of viable urban communities by providing decent housing, a suitable living environment, and expanding economic opportunities. All activities carried out must meet one of the three National Objectives. Those objectives are:

- Benefit low-moderate income persons;
- Aid in the prevention or elimination of slums or blight; or
- Addressing an “urgent need”

DRAFT

B. HOME Investment Partnership Program

The HOME Investment Partnership program was created by the National Affordable Housing Act of 1990 to create local partnerships for providing decent affordable housing to lower income households. It is intended that local jurisdictions work with nonprofit organizations and the private investment community to achieve this goal.

Cities receiving HOME funds must reserve 15% of their HOME funds to Community Housing Development Organizations (CHDOs) for affordable housing development.

In 1997, the Pitt County HOME Consortium was formed. The Consortium included the City of Greenville as lead entity, the Towns of Farmville, Ayden, Bethel, Grifton and Pitt County. The Town of Winterville became a member in 2001. As a Consortium, the communities were eligible for further financial assistance from the U.S. Department of Housing and Urban Development. The Pitt County Consortium has provided affordable housing and improvements for over ten years.

However, as of January 2008, the City Council of Greenville voted to disband the Consortium partnership and apply to become a “Participating Jurisdiction” for HOME funding. This Action Plan will represent Greenville’s second year as a Participating Jurisdiction for HOME for City of Greenville only.

Local match requirement for the 2010-2011 Home Program is approximately \$-144,702. These funds come from local funds earmarked for Affordable Housing and for meeting match requirements. The funds will be used to augment HOME projects. The HOME Consortium currently has a match credit of \$1,199,682, which will be carried over. Despite the match credit, the City still identify match with all projects, evidence of which is detailed on the match log.

C. American Recovery and Reinvestment Act (ARRA)

The City of Greenville was awarded through the 2009 Federal Stimulus Plan, American Recovery and Reinvestment Act (ARRA) from the U.S. Department of Housing and Urban Development a Lead Based Paint Hazard Control Grant. The proposed \$1.9 million grant funds will be used to accomplish the following within 36 months, which began April 15, 2009:

- Control and reduce lead hazards in one hundred and ten (110) low-income housing units in the Greenville area.
- Addressing 110 housing units occupied by children under the age of six w/ elevated blood lead levels
- Provide 75 outreach programs for community awareness and education regarding lead hazards aimed at reaching 5,000 people
- Screening and test for elevated lead levels in children under age six

DRAFT

- Provide Lead Safe Work and Lead Certification training to at least 10 Contractors involved in the City of Greenville housing rehabilitation program
- Provide economic opportunities to at least sixty (60) unemployed and underemployed persons in the targeted neighborhoods, creating 60 jobs
- Develop a self sustaining program by integrating lead hazard reduction into housing rehabilitation programs

In addition, as an entitlement community for CDBG program, the City has been awarded \$216,580 of CDBG-Recovery funds to enhance community development activities.

D. Affordable Housing Bond Program

On November 2, 1992, the citizens of Greenville approved a one million dollar bond referendum for affordable housing. The funding was divided into three revolving loan categories. The categories include homeownership, land banking, and elderly housing rehabilitation. As revolving loans, these funds are continually recaptured and recycled into the activities to further efforts to promote and preserve affordable housing. This bond lead to the production of 161 affordable homes for first time low and moderate income buyers and flood survivors and over 153 loans to low and moderate families for home purchases and rehabilitation of low income elderly homeowner residences. These funds have been recycled since 1992 and are available for the 45 Block Revitalization program and other affordable housing initiatives of the City of Greenville.

In 2004, citizens again approved \$10 million in bond referendums for the revitalization efforts in the Uptown and West Greenville 45 Block Revitalization focus area. Five million of the \$10 million is set aside for the priorities and goals identified below within the 45 Block Revitalization Area for the use with CDBG and HOME funds.

DRAFT

E. Funding Summary Chart

Source	Amount	Description
CDBG	\$814,000	Funds will be used for administration, housing rehabilitation, acquisition, relocation, public service and clearance/ demolition.
HOME Investment Partnership	750,000	Funds will be used for administrative cost, housing rehabilitation, new construction, downpayment assistance, acquisition, relocation, and CHDOs.
General Revenue	\$325,000	Includes HOME match requirement set aside and other local municipal appropriations to support programs.
Affordable Housing Bond Program	\$300,000	A 1992 Voters Referendum for preservation and creation of affordable housing in the City of Greenville.
West Greenville Redevelopment Area Bond Program	\$2,000	A 2004 Voters Referendum for revitalization efforts in the Uptown and West Greenville 45 Block Revitalization focus area.
North Carolina Housing Finance Agency	\$200,000	Funds are awarded from the New Home Loan Pool in the West Greenville 45 Block Revitalization Area for downpayment assistance.
ARRA-Lead Based Paint Hazard Control Grant	\$1,922,370	Funds the Healthy Homes to provide education, contractor certification, testing and abatement and reduction of lead hazards for children under six and their families.
Program Income	\$16,000	Funds generated from recaptured activities of CDBG and HOME assisted units.
Total All Sources	\$4,329,370	Approximate total of all sources

DRAFT

III. CITIZEN PARTICIPATION

The City of Greenville continues to acknowledge the importance of citizen participation in developing activities for each upcoming year. Revisions to the Citizen Participation Plan were placed into effect as of September 11, 2003 (see Appendix E) in an effort to increase public awareness. Despite the recent changes to the current plan, we will continue to search for avenues to increase the level of participation by the community. Resources to better our current plan will include HUD recommendations; contact with other cities to review their plans, and most importantly the consideration of input from the local community to increase involvement.

The City also encouraged public participation in developing the 2010-2011 Annual Action Plan by making a copy of the plan available to the Affordable Housing Loan Committee members; and a copy accessible at all City Community Recreational Centers, Library and Housing Division Office for the general public, nonprofits and other interested parties to review and submit comments from March 22, 2010 through April 16, 2010. **No comments were received.**

In addition, two Public Hearings were held for citizens to provide input on February 11, 2010 and April 8, 2010 during City Council meetings.

IV. ONE YEAR ACTION PLAN

A. Introduction

The 2010-2011 Annual Action Plan describes the CDBG and HOME activities proposed for the 2010 fiscal year. The Five-Year Consolidated Plan guides development of the plan and selection of activities to be undertaken. The plan also includes the resources available to perform the activities, a detailed description of the activities, and maps depicting the areas in which the activities will take place.

The activities to be undertaken by the City of Greenville for the 2010-2011 fiscal year will include Program Administration, Owner-Occupied Housing Rehabilitation, Downpayment Assistance to First-time Homebuyers, Housing Rehabilitation, New Construction Clearance & Demolition, Public Service, Community Housing Development Organizations, Relocation Assistance, and Land Acquisition. It is anticipated that a majority of the proposed activities will be completed within the program year with a few overlapping into future years.

In addition to routine Community Development activities through the CDBG and HOME Programs, we continue to expand the supply of new single family affordable housing units with the assistance of local bond funds. These new units require the experience and oversight of the City of Greenville Housing Division.

DRAFT

The City of Greenville has constructed a total of 162 units throughout the City. See the breakdown below:

New Single Family Units	Total Units
Singletree	24
Carolina Heights	15
Red Oak	1
Countryside Estates	105
West Greenville	17
Total	162

B. Performance Measurement

The focus on demonstrating performance and results is present at all levels of government and in the private sector. Performance measurement is a program tool that can help housing and community development practitioners collect data, track progress, and report on program results in a way that speaks to the impact a program has had on a community and the lives of its residents. Performance Measurement is an organized process for gathering information to determine how well programs and activities are meeting established needs and goals. There are three main components to Outcome Performance Measurement System: Objectives; Outcomes; and Indicators.

1. Objectives:

Performance Measurement offers three possible objectives for each activity. These objectives are based on the broad statutory purposes of the four Community Planning and Development programs:

a. Creating Suitable Living Environments

This objective relates to activities that are designed to benefit communities, families, or individuals by addressing issues in their living environment. The activities are intended to address a wide range of issues faced by low and moderate income persons, from physical problems with their environment, such as poor quality infrastructure, to social issues such as crime prevention, literacy, or elderly health services.

b. Providing Decent Housing

This objective focuses on housing activities whose purpose is to meet individual family or community housing needs.

DRAFT

c. Creating Economic Opportunities

This applies to activities related to economic development, commercial revitalization or job creation.

2. Outcomes:

The second component of the system is outcomes, which are closely related to objectives. The program outcome helps further refine the objectives and is designed to capture the nature of the change or the expected result of the objective to achieve. The following are the three identified:

a. Availability/Accessibility

This applies to activities that make services, infrastructure, public services, public facilities, housing or shelter available or accessible to low and moderate income people, including persons with disabilities.

b. Affordability

These are activities that provide affordability in a variety of ways to low and moderate income people. It can include the creation or maintenance of affordable housing, basic infrastructure hook-ups or services such as transportation or day care.

c. Sustainability

This applies to activities that are aimed at improving communities or neighborhoods, helping to make them livable or viable by providing benefit to persons of low and moderate income by removing or eliminating slums or blighted areas, through multiple activities or services that sustain communities or neighborhoods.

3. Indicators:

Once the program purpose (objective) has been established and intended result (outcome), the next step is to identify how to measure progress towards achieving the intended results. There are four common indicators that are relevant for most activities:

- Amount of money leveraged from other sources
- Number of persons, households, businesses, units or beds assisted
- Income level of persons or households by: 30%, 50%, 60% or 80%
- Race, ethnicity and disability data

A successful performance measurement system is tailored to the specific goals and objectives of the program. To meet its obligation to assess program performance, HUD must require grantees to provide information on their achievements and investments since program objectives and activities are determined and implemented locally.

DRAFT

C. 2010-2011 Action Plan Projects:

1. Program Administration

Activity 2010-1

Regulatory Citations: 24 CFR Parts 92.207, and 570.206

Description: Staff salary, planning, and administrative service delivery costs for implementing the Community Development Block Grant and HOME Programs, will be funded through CDBG and HOME awards, as well as local general revenue support.

Funding Amount:	\$75,000	HOME
	\$162,000	CDBG
	\$325,000	General Fund

2. Housing Rehabilitation

Activity 2010-2

Regulatory Citations: 24 CFR Parts 92.205-(a) (1), 570.202

Description: This program is designed to assist very low to low income homeowners with rehabilitating existing housing structures. The primary intent of this activity is to bring units up to code through the provision of rehabilitation activities to eliminate all code violations and provide a decent, safe and sanitary living environment. Program costs incurred may include demolition, construction, permitting fees, surveying, lead abatement, credit reports and closing costs. This activity will target owner occupied homeowners only. Qualified candidates for assistance include homeowners with annual incomes below 80% of the median area income as defined by HUD.

Funding Amount:	\$ 360,000	CDBG
	\$ 250,000	HOME

Performance Measurement

Objective: Providing Decent Housing

Outcome: Affordability

Output Indicators: Number of units rehabilitated Goal: 10

DRAFT

5. Relocation/Displacement Assistance

Activity 2010-5

Regulatory Citations: 24 CFR Part 570.201 (a), 570.201 (d), 570.201 (i)

Description: As part of the West Greenville 45 Block Revitalization plan, efforts will continue to acquire and demolish substandard and dilapidated properties that continue to blight the area. Acquisition will focus on vacant rental properties or vacant parcels however it may be necessary to acquire occupied rental units for the betterment of the community. Relocation assistance will be provided to tenants that are displaced per Uniform Relocation Assistance guidelines.

Funding Amount: \$10,000 CDBG

Performance Measurement of Relocation/Displacement Assistance

Objective: Creating Suitable Living Environments
Providing Decent Housing
Outcome: Affordability, Availability/Accessibility
Output Indicators: Number of units households **Goal:** 5

6. Public Service

Activity 2010-6

Regulatory Citations: 24 CFR Part 570.201(e)

Description: The City of Greenville will make available funds to assist nonprofit organizations with approved public services activities. Qualified agencies will participate in projects that benefit citizens of the City of Greenville. Nonprofit housing and service providers must assist the underserved populations of the City. Applications from nonprofits are submitted to the City for consideration annually and reviewed by the Affordable Housing Loan Committee. The activities will assist low income persons, homeless and special needs persons, youth development, victims of family/domestic violence, and housing providers. All funding will be expended from September 2010 through August 2011.

Funding Amount: \$122,000 CDBG

Performance Measurement of Public Service Activities

Objective: Creating Suitable Living Environment
Outcome: Sustainability
Output Indicators: Number of LMI households served **Goal:** 25

DRAFT

7. Downpayment Assistance

Activity 2010-7

Regulatory Citations: 24 CFR Part 92.205-(a) (1)

Description: This program is designed to assist low income residents with “gap financing” in the form of downpayment and closing cost assistance in the purchase of newly constructed homes and existing homes. All first time participants must contribute at least \$1000 towards the purchase.

Funding Amount: \$135, 000 HOME

Performance Measurement

Objective:	Providing Decent Housing		
Outcome:	Affordability		
Output Indicators:	Number of inquiries	Goal:	20
	Number of first time homebuyers		5

8. Clearance/Demolition

Activities 2010-8

Regulatory Citation 24 CFR Part 570.201(d)

Description: This activity is designed to acquire and demolish substandard structures in the West Greenville 45 block Revitalization area in an effort to improve the living conditions for low income residents. Parcels may be recombined for the development of new, affordable housing units.

Funding Amount: \$30,000 CDBG

Performance Measurement of Clearance/Demolition Activities

Objective:	Creating Suitable Living Environment		
Outcome:	Affordability, Availability/Accessibility		
Output Indicators:	Number of units acquired	Goal:	10
	Number of units demolished		8

DRAFT

9. Community Housing Development Organization (CHDO) Activities

Activities 2010-9

Regulatory Citations: 24 CFR Part 902.207 (a), (c), (d)

Description: It is anticipated that a certified CHDO will utilize the funding to continue production of single family units for first-time, low-moderate income homebuyers. At the present time, the City has three certified organizations: Metropolitan Housing and CDC, Streets to Home and Exceed, Inc.

Funding Amount: \$115,000 HOME

Performance Measurement

Objective: Decent Affordable Housing

Outcome: Affordability

Output Indicators: Number of new single family units **Goal:** 3

10. Public Facilities Improvement

Activities 2010-10

Regulatory Citations: 24 CFR Part 507.201(c)

Description: It is anticipated that the funds will be used to assist public facilities with minor repairs to improve facilities that serve low to moderate income citizens.

Funding Amount: \$70,000 CDBG

Performance Measurement

Objective: Creating Suitable Living Environment

Outcome: Sustainability

Output Indicators: Number of units **Goal:** 3

DRAFT

D. CDBG/HOME Funding Chart

ACTIVITY	HOME FUNDS	CDBG FUNDS	OTHER/BOND FUNDS
Administration	75,000	162,000	325,000
Housing Rehabilitation	250,000	360,000	\$300,000
Relocation	0	10,000	0
Acquisition	0	60,000	0
New Construction	175,000	0	150,000
Downpayment Assistance	135,000	0	0
Clearance/Demolition	0	30,000	0
Community Housing Development Organizations	115,000	0	0
Public Facilities Improvement	0	70,000	0
Public Service	0	122,000	0
Program Income	11,000	5,000	0
Total	761,000	800,000	\$775,000

DRAFT

V. OTHER ACTIONS

A. Affirmatively Furthering Fair Housing

The City continues to fund affirmatively fair housing marketing actions. These actions are inherent to each of the housing activities provided through the Community Development Department. Education of the Fair Housing Laws will occur throughout the year and most specifically during the month of April, which is designated as “Fair Housing Month” and “CDBG Week”. As part of a weeklong celebration of CDBG Week, the City sponsored a “Homeownership Fair” on March 27, 2010.

In addition, the City, Greenville Human Relations Council and Area Property Managers Association hosted a week of events April 2010, which included: a Fair Housing Seminar, which was designed for property managers and landlords; a Fair Housing Roundtable, which included discussions on the feasibility of establishing a local fair housing ordinance, increased foreclosures, tenant fees and how property managers may better serve tenants.

The City of Greenville will continue to use administrative dollars to fund further fair housing activities during 2010-2011. The City employs a staff person to coordinate all fair housing and other human relations activities, which is funded with general fund dollars in the approximate amount of \$150,000.

B. Analysis of Impediments to Fair Housing Choice

An update to the Analysis of Impediments to Fair Housing Choice was completed by the City of Greenville, May 2008. This section presents the Fair Housing Analysis Update for the 2008-2013 Consolidated Plan. It primarily includes existing impediments to fair housing choice currently being addressed and the plans recommended to remedy them. The update relies on public/private information regarding the real estate and banking industries, Greenville housing and community development activities, North Carolina and Greenville Human Relations Agencies, and the Greensboro and Atlanta HUD Offices of Fair Housing and Equal Opportunity.

1. Impediment

Lack of affordable housing forces the lower income population to find alternative housing. Alternative housing may consist of doubling up; where households combine to cut the expenses of housing. Others are forced to live in housing that is in poor condition that leads to that leads to disparate treatment of protected class families and individuals.

DRAFT

Plan

The financing industry may have the best strategy for this impediment. While it appears to be true that there are insufficient affordable housing units available for housing choice in Greenville, the fact is that a surplus of moderately priced housing is available. Therefore, if lower income home seekers attempt to follow financing recommendations such as using the City's down payment assistance programs and efforts such as West Greenville revitalization that have been instrumental in bringing clients representing "all realms" of the population to apply for loans to purchase homes.

The City's down payment assistance is available to everyone. While some applicants appear to be well educated in the homebuyer loan process, the lending industry feels that most still are not. When lenders counsel prospective borrowers about the financial responsibility associated with home mortgages, offering practical advice regarding savings and spending, borrowers become frustrated and seek mortgage loans elsewhere. If all mainstream lenders have similar policies, it is possible that this serves drive people to seek loans through brokers and subprime lenders. Therefore, a stronger push to promote homebuyer counseling appears to be an appropriate solution.

2. Impediment

The lack of education about discrimination and fair housing laws in Greenville. An essential part of fair housing opportunities and enforcement is the education of the public regarding the rights and responsibilities afforded by fair housing laws. This includes the education of housing and financial providers, as well as citizens.

Plan

Education is a key element on two fronts. First, it is one of the most pressing needs to ensure fair housing choice. It is imperative that individuals and families seeking housing know their rights and responsibilities and that those involved in the housing industry understand their rights and responsibilities, as well. Secondly, providing public education that produces an employable workforce with higher earning potential will help improve creditworthiness of future homebuyers. The onus falls to the public school system to ensure that tomorrow's residents have the skills they need to be competitive in the job marketplace, as well as to be educated consumers armed with the skills to make informed decisions.

DRAFT

3. Impediment

Awareness of fair housing issues is important. Everyone needs to know what may constitute a violation, and what they can do in the event they believe they may have been discriminated against. In addition, it is important for lenders, housing providers and their agents to know their responsibilities and when they may be violating fair housing laws.

Plan

In responding to whether Fair Housing was an issue in Greenville, the financing industry again addressed the results of the recent NCRC report, stating that the minority stigma has improved, but it still exists. The lenders need for production (or writing of loans) drives greater leniency in which lenders select to lend to, thereby lessening the impact of race. Mortgage brokers, on the other hand, know that people do business with people who look like them, and so they hire people that resemble the markets they serve. This is good marketing, but also encourages minority homebuyers to seek loans with lenders who are not necessarily looking out for the borrowers' best interests. Additionally, brokers are most familiar with the products that are most popular in the markets they serve and are not aware of all the products offered by the institutions they represent, thus limiting their offerings to higher-cost products. Unfortunately, uninformed buyers also choose lenders on the basis of word-of-mouth referrals from friends and family, and the belief that banks do not lend money to minorities. Again, while educating consumers is indicated, it is difficult to reach them when they will not avail themselves of the opportunities.

The City will continue its efforts to educate the public through Fair Housing month activities and a local loan counseling program.

The City will encourage lenders, housing providers and their agents to know their responsibilities and to attend training on fair housing laws.

4. Impediment

The lack of a pro-active property maintenance code enforcement program. Substandard housing and low property maintenance contribute to the lack of safe, decent, and sanitary affordable housing. Such a program could help with the preservation of the rental housing stock.

Plan

The City will consider several activities to increase the availability of affordable housing opportunities and programs to preserve existing rental housing stock throughout the City including a program to assist investors in rehabilitating substandard housing stock in an effort to keep those units affordable once renovations have been completed.

DRAFT

5. **Impediment**

There are limited housing opportunities for the homeless, those who are at risk of homelessness, and special needs populations. There is not enough funding for permanent housing. Too many citizens are on the brink of becoming homeless because they have to spend too much of their income on housing (many times not decent or safe housing).

Plan

The City will continue to support programs to increase family self-sufficiency and to prepare homeless, at risk and special needs populations for rental or homeownership opportunities through financial literacy, credit counseling and rental assistance. The City also needs to support a number of initiatives to assist low-moderate homebuyers with down-payment assistance, default delinquency counseling, anti-predatory lending counseling and homeless prevention programs.

6 **Impediment**

Lack of Access to Homeownership (Based on HMDA and apparent Predatory Lending Practices)

This Impediment can be addressed in the 2008-2013 Consolidated Plan as the City considers inequities that may occur in homeownership opportunities for protected classes or those covered by the Fair Housing Law.

An analysis of the HMDA data in this document reveals, for example, that while black residents comprise 34 percent of the population, 21 percent of all home purchase mortgage applications come from black families/individuals so therefore, it appears that black applicants may be underrepresented although improving substantially over the past five years. City programs targeted to assist low-moderate income protected classes should focus more closely on educating the population on the importance of homeownership and how to access local lending resources.

In addition, consistently high denial rates on home improvement loans may reflect policies in the lending industry, but this is an area that warrants some attention in Greenville. The disinvestment associated with an inability to raise funds to maintain one's home can have an undesirable effect on the community when it occurs in great numbers.

Plan

In responding to whether Fair Housing was an issue in Greenville, the financing industry again addressed the results of the recent NCRC report, stating that the minority stigma has improved, but it still exists. The need for production (that is, writing loan business) in the lending industry drives greater leniency in which lenders select to lend to, thereby lessening the impact of race. Mortgage brokers, on the other hand, know that people do business with people who look like them, and so they hire people that

DRAFT

resemble the markets they serve. This is good marketing, but also encourages minority homebuyers to seek loans with lenders who are not necessarily looking out for the borrowers' best interests. Additionally, brokers are most familiar with the products that are most popular in the markets they serve and are not aware of all the products offered by the institutions they represent, thus limiting their offerings to higher-cost products. Unfortunately, uninformed buyers also choose lenders on the basis of word-of-mouth referrals from friends and family, and the belief that banks do not lend money to minorities. Again, the solution lies in educating consumers, although it is difficult to reach them when they will not avail themselves of the opportunities.

C. Affirmative Marketing Policy

In accordance with the regulations of the HOME Program and in furtherance of the City of Greenville's commitment to fair housing and equal housing opportunity, this Policy establishes procedures to affirmatively market rental or residential units constructed or rehabilitated under the HOME Program. These procedures are designed to assure that individuals who normally might not apply for available housing units because they are socially and/or economically disadvantaged are provided an opportunity to apply.

This Affirmative Marketing Policy is documented and maintained in the Housing Division files, and shall be included in all HOME project proposals and agreements and HOME project files. The Beneficiary is held to the terms of the Policy by the requirement in the applicable HOME Subrecipient or HOME/Community Housing Development Organization ("CHDO") Agreement.

It is the policy of the City of Greenville, Housing Division not to discriminate against any person on the basis of race, color, national origin, sex, religion, familial status, or disability:

1. In the sale or rental of housing or residential lots;
2. In advertising the sale or rental of housing;
3. In the finance of housing;
4. In the provision of real estate brokerage services; or
5. In the appraisal of housing.

Please see **Appendix H**.

DRAFT

D. Minority/Women Business Outreach

It is the policy of the City of Greenville to provide minorities and women equal opportunity for participating in all aspects of the City's contracting and procurement programs, including, but not limited to, construction, projects, supplies and materials purchases and professional and personal service contracts.

E. Evaluation and Reduction of Lead-Based Paint Hazards

Lead poisoning is one of the worst environmental threats to children in the United States. While anyone exposed to high concentrations of lead can become poisoned, the effects are most pronounced among young children.

All children are at higher risk to suffer lead poisoning than adults, but children under age six are more vulnerable because their nervous systems are still developing. At high levels, lead poisoning can cause convulsions, coma, and even death. Such severe cases of lead poisoning are now extremely rare, but do still occur. At lower levels, observed adverse health effects from lead poisoning in young children include reduced intelligence, reading and learning disabilities impaired hearing and slowed growth.

An important initiative emanating from HUD in the last decade is the reduction of lead-based paint hazards, and many jurisdictions around the country have focused a concerted effort to reach this goal. The federal Residential Lead-Based Paint Hazard Reduction Act of 1992 (Title X of the Housing and Community Development Act of 1992) amends the Lead-Based Paint Poisoning Prevention Act of 1971, which is the law covering lead-based paint in federally funded housing. These laws and subsequent regulations issued by the U.S. Department of Housing and Urban Development (24 CFR Part 35) protect young children from lead-based paint hazards in housing that is financially assisted or being sold by the federal government.

In property rehabilitation projects involving the City of Greenville, the City will assess whether lead-based paint might be present and, if so, follow the guidelines set forth in the Residential Lead-Based Paint Hazard Reduction Act of 1992, Title X of the Housing and Community Development Act of 1992 (Title 24, Part 35 of the Code of Federal Regulations).

Through the City of Greenville U.S. Department of Housing and Urban Development's Lead Based Paint Hazard Control Grant program, the City proposes to use \$1.9 million grant funds to accomplish the following:

- Control and reduce lead hazards in one hundred (110) low-income housing units in the Greenville area.
- Addressing 110 housing units occupied by children under the age of six w/ elevated blood lead levels

DRAFT

- Provide 75 outreach programs for community awareness and education regarding lead hazards aimed at reaching 5,000 people
- Screening and test for elevated lead levels in children under age six
- Provide Lead Safe Work and Lead Certification training to at least 10 Contractors involved in the City of Greenville housing rehabilitation program
- Provide economic opportunities to at least sixty(60) unemployed and underemployed persons in the targeted neighborhoods, creating 60 jobs
- Develop a self sustaining program by integrating lead hazard reduction into housing rehabilitation programs

The City of Greenville is committed to testing and abating lead in all pre-1978 housing units assisted with federal grant funds in any of the housing programs implemented. Currently, the City of Greenville has contracted with an agency to provide all lead testing and clearance activities. This agency has also agreed to provide training for the housing rehabilitation contractors.

In addition, the City of Greenville will offer lead testing and abatement assistance in the form of a grant to eligible housing rehabilitation assistance participants that have children six years and under in the household, senior adults (55+) and the disabled/handicapped clients.

F. Anti-Poverty Strategy

City of Greenville housing programs inherently address poverty by creating housing opportunities for low income households. Without these housing opportunities many low income households would not be able to afford housing rehabilitation costs or to purchase a home.

Additionally, funding through CDBG Public Service activities of transitional housing providers such as the Greenville Community Shelter and Family Violence Program, both nonprofit agencies, allows individuals that would normally reside in impoverished conditions the opportunity to establish themselves in order to find suitable employment. Such efforts will work to reduce the number of persons currently living in poverty.

G. Developing Institutional Structures

The City of Greenville, through its Housing Division, the network of housing subrecipients and Community Housing Development Organizations (CHDOs), are effectively organized to utilize all the funding received through the various state/federal programs.

The private sector is provided with incentives for developing affordable rental housing through tax credits provided by the federal tax credit program. Tax

DRAFT

credits provide developers with an additional state subsidy for low income apartment construction.

In addition, each year efforts are made to work with local institutions to provide housing and economic opportunities for low income persons through public service activities and participation in the Pitt County Continuum of Care. The Pitt County Continuum of Care began in 2001 and has successfully grown into a well-balanced organization made up of local government agencies, housing providers, service providers, and other interested group. The development of the continuum and participation by the City of Greenville will greatly enhance coordination between these agencies. The Public Housing Authority has also joined the Continuum of Care and has begun working in concert with the City of Greenville and our revitalization efforts in the West Greenville 45-Block Revitalization Area.

The City of Greenville will continue to coordinate with other governmental agencies, nonprofit organizations, private enterprises and individuals to provide increased opportunities for the target area.

H. Public Housing

There are four Public Housing managing agencies in the Pitt County area, which include Greenville Housing Authority with a total of 779 units; Mid East Commission who manages a total of 135 units in three towns; Farmville Housing Authority who manages 174 units and Ayden Housing Authority who manages 175 units. Each of the mentioned Public Housing Authorities receives federal funds to modernize and repair public housing units.

In addition, the City of Greenville Community Development Department Housing Division has formed a partnership with the Greenville Housing Authority to offer bimonthly Homeownership and Financial Literacy classes to public housing residents and other citizens. So far, three former resident utilizing the Housing Choice Voucher program and City of Greenville HOME downpayment assistance program has purchased a new home, developed by a local Community Housing Development Organization.

I. Recapture Provisions

HOME program funds are provided to low income individuals for new construction, housing rehabilitation and homebuyer purchase assistance. These funds are provided in a variety of forms and will be extended to persons with incomes up to but not greater than 80% of the Area Median Income adjusted by family size as published by the U.S. Department of Housing and Urban Development. Assistance provided for homebuyer assistance will be in the form of secondary mortgages. Listed below are the recapture provisions for rehabilitation and homebuyer assistance programs with maximum amounts of assistance available for the activity. A Deed of Trust and Promissory Note for the

DRAFT

amount of assistance provided under the program will be used to secure the assistance. Should the recipient default under program requirements, collection of the funds will be pursued with legal guidance as documented on the deed of trust and promissory note as recorded. Assistance may be in the form of deferred loans or amortized loans.

- Homebuyer assistance may be used for downpayment assistance and/or principal mortgage reduction via Secondary Mortgage. Borrower's income cannot exceed 80% of the area median income adjusted by family size as published annually for Greenville. Maximum loan amounts of up to \$20,000 (20% of sales price of home with cap of \$20,000). Loans will be amortized over a fifteen-year period.
- Housing Rehabilitation Assistance will be offered to persons/families with incomes up to but not greater than 80% of the area median income adjusted by family size and as published annually for Greenville. For households with incomes less than 50% of the area median income, a 10 year deferred loan will be offered up to \$60,000 for rehabilitation assistance. For households with incomes from 51% to 80% of the median area income, the combination of a deferred payment loan and a no interest loan is available. Deferred loans are forgiven at a rate of 10% each year and no-interest loans are amortized over 10 years. In no case may the assistance exceed \$60,000 unless special circumstances exist that warrant exceeding the maximum price and approval of the City Manager is granted.
- Assistance provided to nonprofit agencies through the CDBG Program will be secured with a subrecipient agreement/contract. A deed of trust against the property is required for new agencies. Should the agency fail to comply with program rules, the assistance will be recaptured.
- Assistance provided for new construction to certify CHDOs will be secured by a program agreement/contract. Should the agency fail to comply with program rules, the assistance will be recaptured.

DRAFT

VI. MONITORING PLAN

In regard to CDBG and HOME programs, the City of Greenville's Housing Division Staff has the responsibility for monitoring all activities undertaken.

All activities are covered by an established set of standards in the City of Greenville's Policy and Procedures Manual for the Community Development Programs. In addition all activities are carried out under a binding agreement/contract. Activities are reviewed for compliance with program objectives. The Housing Division maintains records of all activities.

Monitoring activities include but are not limited to the following:

- Monthly meetings with Affordable Housing Loan Committee.
- Weekly contact with Non-Profit Agencies funded under CDBG and HOME as projects occurs for compliance with Local/National Program Objectives.
- Monitor projects of subrecipient agencies to insure compliance with Davis-Bacon, Bidding, Contracting, Uniform Act, Auditing and Local Building Code requirements.
- Monitor progress of all projects through bimonthly reporting to City Management and local elected officials.
- Financial activities in the programs are reviewed on a monthly basis.
- Annual inspection of assisted properties for continued maintenance of property and verification Hazard Insurance by Community Development Staff.
- Annual independent audit of all expenditures is conducted and results are provided to City Council, Granting Agencies, and Bonding Agencies.
- Review of nonprofit files for maintaining information required by the City of Greenville and granting agencies (as outlined in procedures manual and contract).
- Conduct Workshops for contractors, non-profits, and other program participants to review guidelines and requirements.

DRAFT

A. HOME Program monitoring Schedule

The following is the proposed monitoring schedule for the HOME Investment Partnership Program:

Monitoring Schedule - HOME Investment Partnership

Active Funded Consortium Members	Contact Person	Monitoring Visit Close out of Prior Year Funding	Quarterly Monitoring Visits	Quarterly Monitoring Visits	Quarterly Monitoring Visits
Town of Farmville	Richard Hicks	Week of July 12, 2010	Week of September 27, 2010	Week of January 3, 2011	Week of March 14, 2011
Pitt County	Lori Jones	Week of July 12, 2010	Week of September 27, 2010	Week of January 3, 2011	Week of March 14, 2011

Active Funded CHDO's	Contact Person	Monitoring Visit Close out of Prior Year Funding	Quarterly Monitoring Visit	Quarterly Monitoring Visit	Quarterly Monitoring Visit
Farmville Housing Development Corporation	Dean Corbett	Week of July 12, 2010	Week of September 27, 2010	Week of January 3, 2011	Week of March 14, 2011
Metropolitan Housing & CDC	Rev. David Moore	Week of July 12, 2009	Week of September 27, 2010	Week of January 3, 2011	Week of March 14, 2011

Quarterly Review Outstanding Projects

Consortium Members with Outstanding Projects	Contact Person	1 st Quarter Monitoring Visit	2 nd Quarter Monitoring Visit	3 rd Quarter Monitoring Visit	4 th Quarter Monitoring Visit
Town of Grifton	Joe Albright	Week of July 6, 2010	Week of October 4, 2010	Week of January 4, 2011	Week of April 4, 2011

Annual Compliance Review

Annual Compliance Review (Affordability Period)	Contact Person	Annual Monitoring Visit
Town of Ayden	Cindy Dunn	Week of June 20, 2011
Town of Bethel	Todd Bullock	Week of June 20, 2011
Town of Winterville	Tangi Williams	Week of June 20, 2011

DRAFT

B. CDBG Program monitoring Schedule

The following is the proposed monitoring schedule for the CDBG Program:

Monitoring Schedule - CDBG

Active Subrecipient	Contact Person	Monitoring Visit Date
Family Violence Program	Diane Lucas	January 3, 2011
L.I.F.E. of NC, Inc.	Joyce Jones	January 3, 2011
Greenville Housing Development Corporation	Michael Best	January 3, 2011
Greenville Community Shelter	Lynne James	January 3, 2011

VII. STRATEGIES TO ELIMINATE HOMELESSNESS**A. Continuum of Care**

Since 2001, the City of Greenville has actively assisted with the creation and development of a Continuum of Care for Pitt County. The group, known as the Pitt County Continuum of Care, is devised of City and County staff, as well as non-profit and for-profit representatives. The group meets monthly to discuss the ever-growing homeless population in our community. Efforts to end homelessness and to coordinate supportive services to homeless persons are top priorities for the community. The January 2010, a Continuum of Care Homeless Population Point in Time Survey revealed that there are 93 homeless persons in Pitt County and only 72 beds available to serve them.

During the upcoming 2010-2011 fiscal year, the group will continue to develop the Continuum and prepare a grant application for submission. To date, the Pitt County Continuum of Care has received funding every year since 2003 funding cycle. Funding received under the 2004 and 2005 award was allocated to implement a Homeless Management Information System (HMIS). All actions by the Continuum of Care group will address obstacles to meet the underserved needs in the community, assist with the reduction of poverty level families, assist with the development of “institutional structures”, and enhance coordination between public and private housing and social service providers. Other actions

DRAFT

will include marketing of the continuum to reach out to surrounding communities in an endeavor to promote regional participation.

B. Ten-Year Plan to End Homelessness

The City of Greenville, Pitt County Government, United Way and other nonprofit agencies formed a partnership in 2008 to hire a professional consultant to assist the community with developing a Ten-Year Plan to End Chronic Homelessness in Pitt County. The Plan was approved October 2008 by the Greenville City Council and Pitt County Commission. The goals and objectives are as follow:

GOAL 1

Provide community-based services and support to prevent homelessness before it happens and diminish risks for homelessness to recur.

■ Outcome 1-A

Increased access to services provided to the homeless population.

■ Outcome 1-B

Increased number of individuals who are employed and able to manage their personal finances.

■ Outcome 1-C

A comprehensive client-centered discharge planning process coordinated among community agencies for individuals leaving foster care, mental health facilities, jails and prisons, medical facilities, and military units who are at risk for homelessness.

■ Outcome 1-D

A data infrastructure (HMIS) that would link all services, screen for program eligibility, and gather data needed to monitor (assess) progress of implementation.

GOAL 2

Create adequate short-term housing options and supportive permanent housing for those who are chronically homeless or at risk of becoming homeless.

■ Outcome 1-A:

Increased inventory of housing options that meet the needs of individuals and families who are homeless and those at risk of becoming homeless.

Both local governments and nonprofit agencies are now in the process of planning for implementation. A copy of the plan is attached (**see appendix G**). The City Council approved September 2008 a two year contribution of CDBG funds in the amount of \$30,000 per year to fund implementation activities.



City of Greenville, North Carolina

Meeting Date: 4/8/2010
Time: 7:00 PM

Title of Item: Community Development Block Grant program subrecipient funding for 2010-2011

Explanation: During the Fiscal Year 2010-2011 Annual Action Plan process, the Affordable Housing Loan Committee met and recommends to City Council that the following non-profit organizations be approved for funding. These non-profit organizations' funding requests comply with the program rules for public facility improvement and public services:

Public Facility Improvements

Operation Sunshine, Inc. \$11,795.97; *Center for Family Violence Prevention, Inc.* \$2,800; *L.I.F.E. of NC, Inc.* \$10,172.25; *Building Hope Community Life Center, Inc.* \$26,697.62; and a *Contingency Fund* \$18,534.16

Public Service

Boys & Girls Club of Pitt County, Inc. \$11,000; *N.C. Rural Fund for Development* \$5,800; *L.I.F.E. of NC, Inc.* \$20,000; *Building Hope Community Life Center, Inc.* \$15,000; *EXCEED, Inc.* \$5,000; *Center for Family Violence Prevention, Inc.* \$22,200; and *Center for Family Violence Prevention, Inc. (Safe House)* \$6,000.

A detailed table is attached outlining each agency's request, staff recommendations to the Affordable Housing Loan Committee, and the Affordable Housing Loan Committee's recommendations.

Fiscal Note: Funding will be contingent upon U. S. Department of Housing and Urban Development approval of Fiscal Year 2010-2011 Annual Action Plan.

Recommendation: Review and approve Affordable Housing Loan Committee's fiscal year 2010-2011 CDBG public facility improvement and public service funding requests recommendations.

Viewing Attachments Requires Adobe Acrobat. [Click here](#) to download.

Attachments / click to download

 [2010_Subrecipient_Request_860092](#)

Fiscal Year 2010-2011 Subrecipient Funding Requests

Public Facility Improvement

Available \$70,000.00

Agency Name	Request	Staff Recommendation	AHLC Recommendation
Operation Sunshine, Inc.	11,795.97	11,795.00	11,795.97
Center for Family Violence Prevention, Inc. (Safe House)	2,800.00	2,800.00	2,800.00
L.I.F.E. of NC, Inc.	20,344.50	20,345.00	10,172.25
Building Hope Community Life Center, Inc.	26,697.62	26,700.00	26,697.62
TOTAL	\$61,638.09	\$61,640.00	\$51,465.84

Fiscal Year 2010-2011 Subrecipient Funding Requests

Public Service Request

Available: \$85,000.00

Agency Name	Funding Requests	Staff Recommendation	AHLC Recommendation
Boys & Girls Clubs of Pitt County, Inc.	11,800.00	11,000.00	11,000.00
Greenville Housing Development Corporation	33,557.00	5,000.00	0
NC Rural Fund for Development	5,800.00	5,800.00	5,800.00
L.I.F.E of NC	28,200.00	20,000.00	20,000.00
Greenville Community Shelters, Inc.	2,100.00	0	0
Building Hope Community Life Center, Inc.	20,000.00	18,000.00	15,000.00
EXCEED, Inc.	15,000.00	0	5,000.00
Center for Family Violence Prevention, Inc.	25,000.00	19,200.00	22,200.00
Center for Family Violence Prevention, Inc.	6,025.00	6,000.00	6,000.00
TOTALS	\$147,482.00	\$85,000.00	\$85,000.00



City of Greenville, North Carolina

Meeting Date: 4/8/2010
Time: 7:00 PM

Title of Item: Ordinance amending Chapter 3 of Title 6 (Solid Waste Collection) of the City Code requiring recycling centers at multi-family dwellings

Explanation: At the May 2009 City Council meeting, staff presented five (5) recommended options designed to increase recycling in the City. City Council directed staff to take action on two of the staff's recommendations. These two actions are as follows:

- Develop and implement a recycling education and enhancement program which Public Works staff is presently implementing with the "Green(er) ville Campaign"
- Work with a committee of multi-family stakeholders to develop a recommendation for increasing recycling in multi-family complexes

This request for City Council consideration is on the latter assignment. Public Works staff organized a committee consisting of a total of eight stakeholders representing multi-family owners, multi-family management companies, multi-family homeowners associations, Environmental Advisory Commission, and Keep Greenville Beautiful. The committee had multiple meetings in the Fall of 2009, and in October of 2009 the committee approved a recommendation for City Council consideration.

The purpose of the proposed multi-family recycling plan and the amendments to the existing Solid Waste ordinance is to provide facilities for recycling at existing and future multi-family locations. Only sixty-seven (67) out of two hundred twenty-five (225) multi-family complexes within the City have recycling facilities presently. Fifty (50) of the multi-family recycling centers were installed as a result of the City obtaining grant funding over the last five (5) years. Placing recycling centers in the remaining one hundred fifty-eight (158) multi-family complexes, along with requiring future multi-family complexes to install recycling centers will increase the City's recycling rate and give each complexes' residents a convenient place to recycle.

The Proposed Multi-family Recycling Plan (copy attached) requires existing complexes to provide a location(s) for the City to install recycling centers containing at least one (1) 96-gallon roll out container per 20 units. If the proposed changes to the ordinances are approved, Multi-family complexes approved for construction after July 1, 2010 will be required to include recycling centers in their construction plans and install the center(s) as a part of construction. The City will maintain all recycling centers in existing and new complexes.

The City proposes to complete construction of all recycling centers at existing complexes by July 1, 2012. The City will request proposals (RFP) and then award a contract to an engineering or architectural firm to design, bid, and inspect the construction of the centers. The project includes contracting installation of the concrete pad, fencing, signage, and repair of turf or mulch around the construction area. The roll-out containers and recycling signs will be provided by the City as a part of the installation project.

The Multi-family Recycling Committee's proposed plan was presented to stakeholders in January/February of 2010 and has been available for review on the City's website for a period of two months. The following stakeholders have been informed of the proposed multi-family recycling plan by Public Works through a presentation (P) or by letter (L) :

- Neighborhood Advisory Board (P)
- Environmental Advisory Commission (P)
- Greenville Area Property Manager's Association (P)
- Pitt County Developer's Association (L)
- Planning and Zoning Commission (P)
- Keep Greenville Beautiful Board of Directors (P)

The Public Works Department also held a Public Meeting at the Public Works Department Assembly Room on February 23, 2010. Over 100 invitations to managers, owners, and offices of multi-family complexes were mailed inviting stakeholders to this public meeting and informing them that the plan was available on the website if they could not attend the public meeting. Comments at these meetings have been very positive. Staff made adjustments to the plan based on suggestions by stakeholders.

Amendments to Section 6 Chapter 3 Solid Waste regulations of the City Code incorporated in the attached ordinance (strike through and final versions) are necessary if the Recycling Plan is approved. Amendments to the Zoning regulations are also necessary to add in the term "Recycling Center" into the areas of the regulations associated with the screening of the Centers and the minimum distance of Twenty (20) feet from structures that the Centers must be located. These zoning regulation changes were presented to the Planning and Zoning Commission at their March meeting and were approved. The zoning changes are being considered in a separate City Council agenda item.

The recommended method of funding the initial construction of recycling centers

is to add a surcharge of \$.42 per unit per month for a period of four years. After four years, the surcharge will be reduced to \$.09 per unit per month to fund the maintenance and future renovations of the recycling centers.

If the Recycling Plan is approved, City staff will notify and educate stakeholders from May to June 2010 regarding the effective date of the ordinance amendments and the components of the recycling plan. During this period, staff will also develop a progression schedule for installing the recycling centers and prepare a request for proposal (RFP's) from engineering/architectural firms to design and implement construction of the centers.

Fiscal Note:

The recommendation, if approved, would require the City to include in the proposed CIP program \$197,000 in FY 10/11 and \$197,000 in FY 11/12 to fund the construction of multi-family recycling centers. The proposal includes a refuse fee surcharge to reimburse the CIP account over a four year period.

Recommendation:

Approve the attached Multi-family Recycling Plan and the attached ordinance amending Title 6 Chapter 3 (Solid Waste Collection) of the City Code requiring recycling centers at multi-family dwellings.

Viewing Attachments Requires Adobe Acrobat. [Click here](#) to download.

Attachments / click to download

[MULTI_FAMILY_RECYCLING_DEC_850254](#)

[_redlined_849081_Proposed_Solidwaste_Ordinance_Amendment_amending_Chapter_4_of_Title_9_rewriting_and_amending_859194](#)

[_clean_849081_Proposed_Solidwaste_Ordinance_Amendment_amending_Chapter_4_of_Title_9_rewriting_and_amending_859195](#)

MULTI-FAMILY RECYCLING COMMITTEE

PROPOSED MULTI-FAMILY RECYCLING PLAN

Staff presented to City Council at their May 2009 meeting various options to increase recycling in the City of Greenville. One of the options was to require existing and new multi-family complexes to provide recycling facilities for their residents. City Council directed staff to develop this option and further directed staff to work with multi-family complex stakeholders to help develop a recommendation for this option prior to bringing back to Council for consideration.

Staff developed a committee composed of two members from multi-family homeowner associations, two multi-family complex owners, two representatives from multi-family management companies, one member from the Environmental Advisory Commission, and one member from the Keep Greenville Beautiful Board of Directors. The Multi-family Recycling Committee has met five times since August 2009.

The committee has worked through a series of options during their meetings. At the October 14, 2009 meeting of the Multi-family Recycling Committee, the committee made the following recommendation.

Recommendation: The proposed recommendation is that all recycling centers be installed by the City in existing complexes within two years and the City will recover the investment by adding a surcharge of \$.42 per month per multi-family household over a four year period. The proposed recommendation would require all complexes approved for construction by the City after July 1, 2010 to install facilities and the required number of recycling containers as a part of construction. After four years the surcharge will be reduced to \$.09 per month per multi-family household to continue covering the cost of maintaining all new and existing recycling centers. The costs of this option are detailed below:

Centers for existing complexes (Estimated 225)	\$ 246,750
Contingencies	\$ 20,000
Maintenance Costs	\$ 20,000
Engineering Firm Cost	<u>\$ 100,000</u>
Total Cost of this option	\$ 386,750

Due to the rapid implementation of this recommendation, an Engineering firm will assist staff with coordination and construction of the multi-family recycling centers. The process of installation will begin as soon as an Engineering firm can complete the plans for a complex and group enough centers to bid. Complexes with no present recycling centers will be prioritized, but all centers will be completed within two years.

The prioritization for installation of the centers will be to ensure all complexes have at least one recycling center and then add centers to complexes until each complex reaches the desired ratio of roll out containers to households.

Installation of recycling centers includes site preparation, concrete pad, recycling center signage, fencing around the center, roll out containers, and site repair. Sod or mulch will be installed on any disturbed area associated with installation of centers. The fencing provided for this program is pre-fabricated 4' stock wood fencing. Any request for specialized fencing that is approved by the Public Works Department will require a subsidy for the difference in costs between the complexes requested alternative fencing and the stock wood fencing. If masonry is requested and approved all additional labor will be paid by the complex and the City will not be responsible for maintenance of masonry walls. Additionally, if a complex elects to screen recycling center with shrubs or has an existing recycling center with shrubs, the city will not be responsible for installation costs, maintenance, or replacement of the shrubs.

The maintenance of all new and existing recycling centers will include roll out containers used in recycling centers, recycling center signage, and any stock 4' wood fencing that is a part of the recycling center.

When recycling centers are attached to the garbage dumpster pad fencing only the fencing around the recycling center will be maintained by Public Works as a part of this project. Gates are not encouraged but can be installed with approval of the Public Works Department. Initial cost of installing gates as well as maintenance, and replacement will be at the cost of the complex, and gates will not be maintained as a part of this program.

Additional Requirements, Recommendations, or Definitions:

- The definition of a new complex is a complex that has not received approval from the City of Greenville for their construction plan on the date of effectiveness for the ordinance change as approved by the Greenville City Council. The recommended date of effectiveness is July 1, 2010.
- All new or existing complexes will be required to be a part of this program and no fee waivers will be allowed. Complexes with existing recycling centers that meet the desired ratio will be allowed to upgrade. Complexes with existing recycling centers but do not meet the required ratio will receive additional recycling centers.
- All complexes will be encouraged to assist the City with distribution of recycling educational materials to their residents and to additionally place recycling educational material at least two times per year in their newsletters or other informational material distributed to their residents.

Proposed Timeline for this process:

Presentation to stakeholder groups (Need to identify)	Jan.- Feb. 2010
Public Meeting	February, 2010
Multi-family Recycling Committee Meeting	March, 2010
Present to Planning and Zoning Commission for consideration	March, 2010
Present to City Council for consideration	April, 2010
Send information to all Multi-family complex management, Associations and owners regarding program	May-June 2010
Proposed Date of Effectiveness	July 1, 2010

ORDINANCE NO. 10-_____
ORDINANCE AMENDING CHAPTER 3 OF TITLE 6
OF THE GREENVILLE CITY CODE BY REWRITING CERTAIN
SECTIONS WHICH RELATE TO SOLID WASTE COLLECTION IN ORDER
TO REQUIRE RECYCLING CENTERS AT
MULTI-FAMILY DWELLINGS

THE CITY COUNCIL OF THE CITY OF GREENVILLE, NORTH CAROLINA, DOES
HEREBY ORDAIN:

Section 1. That Section 6-3-23 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said section so that it will read as follows:

Sec. 6-3-23. CONTAINERS; REQUIRED EQUAL TO NEED; CONCRETE PICKUP PLATFORM.

Multi-family dwellings will be serviced by the city by a container-type refuse truck; therefore, these locations will be required to store their garbage, trash, or other waste in container sizes of six or eight cubic yards equivalent to their needs. Multi-family dwellings with existing three or four cubic yard dumpsters will be allowed to be serviced with existing three or four cubic yard dumpsters as long as they are compatible with front loader refuse trucks. All multi-family dwellings will be required to install their own concrete platform for these containers. **All multi-family dwellings will be required to install recycling centers with the required number of 96 gallon containers except that the city will install recycling centers at multi-family dwellings approved for construction prior to July 1, 2010. The recycling centers must have city standard fencing, concrete pads, signage and containers. Any request for alternative design must be approved by the Director of Public Works or designee.** The location of these containers will be chosen with regard to the best interest of public safety and to where the city refuse trucks can service them with the least maneuvering. Final approval as to the location will be made by the Director of Public Works or designee.

Section 2. That Section 6-3-24 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said section so that it will read as follows:

Sec. 6-3-24. CONTAINERS; DESIGN AND CAPACITY.

Containers will be of an approved design, as provided by the Public Works Department, and of six or eight cubic yards capacity. Containers must be made of twelve-gauge steel, with the exception of the lid which may be 14- or 16-gauge or heavy duty plastic designed for the container. The lid must be maintained by the owner in a manner such that the lid opens and closes easily. **Recycling containers shall be city approved 96 gallon roll out containers designed for dumping by city semi-automated refuse trucks.**

Section 3. That Section 6-3-25 of the Code of Ordinances, City of Greenville, be and is hereby amended by adding a subsection to be numbered (c), which subsection reads as follows:

(c) The city will be responsible for providing maintenance of all recycling centers with city standard fencing, concrete pads, signage and containers after the recycling center is approved for service by the city. If alternative fencing or structures are utilized, the city will not be responsible for maintenance of the alternative fencing or structure. If vegetation is used for the screening requirement in lieu of fencing, the city will not be responsible for maintenance or replacement of the vegetation.

Section 4. That Section 6-3-31(A) of the Code of Ordinances, City of Greenville, be and is hereby amended by adding a subsection to be numbered (3), which subsection reads as follows:

(3) Recycling centers must be constructed with a minimum ratio of one 96 gallon container for each 20 units or any fraction thereof. A minimum of one 96 gallon container for recycling is required for any complex with less than 20 units.

Section 5. That Section 6-3-32 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said section so that it will read as follows:

Sec. 6-3-32. LOCATION OF CONTAINERS; INCLUSION IN SITE PLAN.

Developers of condominiums and multi-family dwelling developments, including such developments which also have duplex houses, will include in the site plan the location for containers and recycling centers to be serviced by the city for approval by the Director of Public Works or designee. Containers and recycling centers shall be provided by the developer on site before a certificate of occupancy for the structure shall be issued by the city.

Section 6. That Section 6-3-33 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said section so that it will read as follows:

Sec. 6-3-33. SAME; PICKUP ACCESSIBILITY.

Containers and recycling centers must be located for accessibility by Sanitation Division pickup equipment.

Section 7. That Section 6-3-34 of the Code of Ordinances, City of Greenville, be and is hereby amended by adding a subsection to be numbered (C), which subsection reads as follows:

(C) The city will be responsible for maintaining all recycling centers with city standard fencing, concrete pads, signage, and containers after the recycling center is approved for service by the city. If alternative fencing or structures are utilized, the city will not be responsible for maintenance of alternative fencing or structures. If vegetation is used for

screening in lieu of fencing, the city will not be responsible for maintenance or replacement of vegetation.

Section 8. That Section 6-3-35 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said section so that it will read as follows:

Sec. 6-3-35. UNAUTHORIZED USE OF RECEPTACLE PROHIBITED.

It shall be unlawful for any person to place, or allow to be placed, any garbage or refuse in any receptacle, **in any recycling center**, at any refuse collection point, or in any refuse container used in the commercial or multi-family garbage collection service unless the garbage or refuse is from the premise(s) served by such container or from the premise(s) at which the receptacle is located. It shall also be unlawful for any person to utilize a public dumpster, **recycling center**, or trash receptacle as a means to dispose of garbage or refuse from the premises of a commercial or industrial business. Any unauthorized use of a receptacle shall subject the offender(s) to a civil penalty in the amount of \$50 and the Public Works Department is authorized to issue citations.

Section 9. All ordinances or parts of ordinances in conflict herewith are hereby repealed to the extent of such conflict.

Section 10. Any part or provision of this ordinance found by a court of competent jurisdiction to be in violation of the Constitution or laws of the United States or North Carolina is hereby deemed severable and shall not affect the validity of the remaining provisions of the ordinance.

Section 11. This ordinance shall become effective July 1, 2010.

This the 8th day of April, 2010.

Patricia C. Dunn, Mayor

ATTEST:

Wanda T. Elks, City Clerk

ORDINANCE NO. 10-_____
ORDINANCE AMENDING CHAPTER 3 OF TITLE 6
OF THE GREENVILLE CITY CODE BY REWRITING CERTAIN
SECTIONS WHICH RELATE TO SOLID WASTE COLLECTION IN ORDER
TO REQUIRE RECYCLING CENTERS AT
MULTI-FAMILY DWELLINGS

THE CITY COUNCIL OF THE CITY OF GREENVILLE, NORTH CAROLINA, DOES
HEREBY ORDAIN:

Section 1. That Section 6-3-23 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said section so that it will read as follows:

Sec. 6-3-23. CONTAINERS; REQUIRED EQUAL TO NEED; CONCRETE PICKUP PLATFORM.

Multi-family dwellings will be serviced by the city by a container-type refuse truck; therefore, these locations will be required to store their garbage, trash, or other waste in container sizes of six or eight cubic yards equivalent to their needs. Multi-family dwellings with existing three or four cubic yard dumpsters will be allowed to be serviced with existing three or four cubic yard dumpsters as long as they are compatible with front loader refuse trucks. All multi-family dwellings will be required to install their own concrete platform for these containers. All multi-family dwellings will be required to install recycling centers with the required number of 96 gallon containers except that the city will install recycling centers at multi-family dwellings approved for construction prior to July 1, 2010. The recycling centers must have city standard fencing, concrete pads, signage and containers. Any request for alternative design must be approved by the Director of Public Works or designee. The location of these containers will be chosen with regard to the best interest of public safety and to where the city refuse trucks can service them with the least maneuvering. Final approval as to the location will be made by the Director of Public Works or designee.

Section 2. That Section 6-3-24 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said section so that it will read as follows:

Sec. 6-3-24. CONTAINERS; DESIGN AND CAPACITY.

Containers will be of an approved design, as provided by the Public Works Department, and of six or eight cubic yards capacity. Containers must be made of twelve-gauge steel, with the exception of the lid which may be 14- or 16-gauge or heavy duty plastic designed for the container. The lid must be maintained by the owner in a manner such that the lid opens and closes easily. Recycling containers shall be city approved 96 gallon roll out containers designed for dumping by city semi-automated refuse trucks.

Section 3. That Section 6-3-25 of the Code of Ordinances, City of Greenville, be and is hereby amended by adding a subsection to be numbered (c), which subsection reads as follows:

(c) The city will be responsible for providing maintenance of all recycling centers with city standard fencing, concrete pads, signage and containers after the recycling center is approved for service by the city. If alternative fencing or structures are utilized, the city will not be responsible for maintenance of the alternative fencing or structure. If vegetation is used for the screening requirement in lieu of fencing, the city will not be responsible for maintenance or replacement of the vegetation.

Section 4. That Section 6-3-31(A) of the Code of Ordinances, City of Greenville, be and is hereby amended by adding a subsection to be numbered (3), which subsection reads as follows:

(3) Recycling centers must be constructed with a minimum ratio of one 96 gallon container for each 20 units or any fraction thereof. A minimum of one 96 gallon container for recycling is required for any complex with less than 20 units.

Section 5. That Section 6-3-32 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said section so that it will read as follows:

Sec. 6-3-32. LOCATION OF CONTAINERS; INCLUSION IN SITE PLAN.

Developers of condominiums and multi-family dwelling developments, including such developments which also have duplex houses, will include in the site plan the location for containers and recycling centers to be serviced by the city for approval by the Director of Public Works or designee. Containers and recycling centers shall be provided by the developer on site before a certificate of occupancy for the structure shall be issued by the city.

Section 6. That Section 6-3-33 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said section so that it will read as follows:

Sec. 6-3-33. SAME; PICKUP ACCESSIBILITY.

Containers and recycling centers must be located for accessibility by Sanitation Division pickup equipment.

Section 7. That Section 6-3-34 of the Code of Ordinances, City of Greenville, be and is hereby amended by adding a subsection to be numbered (C), which subsection reads as follows:

(C) The city will be responsible for maintaining all recycling centers with city standard fencing, concrete pads, signage, and containers after the recycling center is approved for service by the city. If alternative fencing or structures are utilized, the city will not be responsible for maintenance of alternative fencing or structures. If vegetation is used for

screening in lieu of fencing, the city will not be responsible for maintenance or replacement of vegetation.

Section 8. That Section 6-3-35 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said section so that it will read as follows:

Sec. 6-3-35. UNAUTHORIZED USE OF RECEPTACLE PROHIBITED.

It shall be unlawful for any person to place, or allow to be placed, any garbage or refuse in any receptacle, in any recycling center, at any refuse collection point, or in any refuse container used in the commercial or multi-family garbage collection service unless the garbage or refuse is from the premise(s) served by such container or from the premise(s) at which the receptacle is located. It shall also be unlawful for any person to utilize a public dumpster, recycling center, or trash receptacle as a means to dispose of garbage or refuse from the premises of a commercial or industrial business. Any unauthorized use of a receptacle shall subject the offender(s) to a civil penalty in the amount of \$50 and the Public Works Department is authorized to issue citations.

Section 9. All ordinances or parts of ordinances in conflict herewith are hereby repealed to the extent of such conflict.

Section 10. Any part or provision of this ordinance found by a court of competent jurisdiction to be in violation of the Constitution or laws of the United States or North Carolina is hereby deemed severable and shall not affect the validity of the remaining provisions of the ordinance.

Section 11. This ordinance shall become effective July 1, 2010.

This the 8th day of April, 2010.

Patricia C. Dunn, Mayor

ATTEST:

Wanda T. Elks, City Clerk



City of Greenville, North Carolina

Meeting Date: 4/8/2010
Time: 7:00 PM

Title of Item: Ordinance amending Chapter 3 of Title 6 (Solid Waste Collection) of the City Code to allow the use of compactors at multi-family dwellings

Explanation: The purpose of the proposed amendments to the existing garbage, and refuse collection and disposal ordinance are to allow compactors to be utilized in multi-family complexes if approved by the Director of Public Works or designee.

The City has not previously allowed compactors for multi-family complexes, but over the last few years, staff has received a number of requests from proposed multi-family complex owners and developers to allow compactors. Staff's recommendation is to allow for compactors within the Solid Waste Ordinances if requested by the developer and approved by the Director of Public Works or designees.

The ordinance amendment specifies the information a requesting owner or developer must provide Public Works in order for the Director to consider this request. This information includes:

- Plan for how residents will dispose of garbage in the event of a compactor failure
- Specifications for the proposed compactor including the compaction ratio
- Site location plan for the proposed compactor
- Access plan for servicing the compactor by the City or a City contractor
- Access plan for residents to dispose of their garbage that meets all accessibility requirements
- Recycling plan for the multi-family complex if the multi-family recycling plan is approved. If the plan is not approved then this requirement would not be a part of the ordinance amendment

The compactor must have a compacted garbage ratio equivalent to the required one (1) yard of uncompacted garbage space per four multi-family units. Other factors that the Director of Public Works will use to determine if a compactor will be approved are related to the proposed location of the compactor, ease of

accessibility for residents and service trucks, proper planning for breakdown of the mechanical aspects of the compactor, and a recycling plan.

The compactor will be the responsibility of the complex to purchase and maintain. The City will not provide a warranty for any approved compactor.

Garbage and/or recycling collection service of any approved compactor could initially be through a city obtained contractor.

The zoning requirements for screening were presented by Community Development Department to Planning and Zoning Commission at their March meeting and approved. These ordinance amendments are being considered in a separate agenda item.

Fiscal Note:

The City will have additional costs associated with servicing the compactor with an outside vendor. This cost will be offset by refuse fees charged to the units of the complex that has approval to utilize a compactor.

Recommendation:

Approve the attached ordinance amending Title 6 Chapter 3 (Solid Waste Collection) of the City Code to allow the use of compactors at multi-family dwellings. The form of the ordinance will depend on whether the City Council approves the Multi-family Recycling Plan and ordinance proposed in the preceding agenda item. Both versions of the ordinance are attached.

Viewing Attachments Requires Adobe Acrobat. [Click here](#) to download.

Attachments / click to download

 [_redlined_858080_Ordinance_amending_Article_B_Container_Policy_2_if_approved_859198](#)

 [_redlined_857669_Ordinance_amending_Article_B_Container_Policy_City_Code_if_not_approved_859200](#)

NOTE: Ordinance if ordinance to require recycling center at multi-family dwellings approved.

ORDINANCE NO. 10-_____
ORDINANCE AMENDING CHAPTER 3 OF TITLE 6
OF THE GREENVILLE CITY CODE BY REWRITING CERTAIN
SECTIONS WHICH RELATE TO SOLID WASTE COLLECTION IN ORDER
TO ALLOW COMPACTORS AT MULTI-FAMILY DWELLINGS

THE CITY COUNCIL OF THE CITY OF GREENVILLE, NORTH CAROLINA, DOES
HEREBY ORDAIN:

Section 1. That Section 6-3-23 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said section so that it will read as follows:

SEC. 6-3-23 CONTAINERS; REQUIRED EQUAL TO NEED; CONCRETE PICKUP PLATFORM.

Multi-family dwellings will be serviced by the city by a container-type refuse truck; therefore, these locations will be required to store their garbage, trash, or other waste in container sizes of six or eight cubic yards equivalent to their needs. Multi-family dwellings with existing three or four cubic yard dumpsters will be allowed to be serviced with existing three or four cubic yard dumpsters as long as they are compatible with front loader refuse trucks. **Compactors or roll-out carts are an option in accordance with the provisions of subsections (C) and (D) of Section 6-3-31.** All multi-family dwellings will be required to install their own concrete platform for these containers. All multi-family dwellings will be required to install recycling centers with the required number of 96 gallon containers except that the city will install recycling centers at multi-family dwellings approved for construction prior to July 1, 2010. The recycling centers must have city standard fencing, concrete pads, signage and containers. Any request for alternative design must be approved by the Director of Public Works or designee. The location of these containers will be chosen with regard to the best interest of public safety and to where the city refuse trucks can service them with the least maneuvering. Final approval as to the location will be made by the Director of Public Works or designee.

Section 2. That Section 6-3-25 (A) of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said subsection so that it will read as follows:

(A) It will be the responsibility of the owner to make the original purchase of containers, and if purchased new, the Sanitation Division will provide a 12-month warranty if purchased from the city. During the 12-month period, the Department will perform all necessary repairs to the containers at the city's expense, **except for repairs necessitated by deliberate acts of the owner or any other person. Approved compactors and containers not purchased from the city will not have a warranty period and will not be maintained or repaired by the city.**

Section 3. That Section 6-3-25 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting subsection (D) and adding subsection (E) so that they will read as follows:

(D) Notwithstanding the provisions of subsections (A) and (B), owners of multi-family units may elect to utilize a compactor in lieu of meeting the requirements of subsection (A) or (B) above if approved by the Director of Public Works or designee. The compactor will receive solid waste collection service from the city or a company contracted by the city. The ratio of compaction to uncompacted garbage shall be submitted as a part of the request for approval of a compactor. Compactor must be sized to be equivalent to 1 yard of uncompacted garbage dumpster space per 4 units. To be considered for approval by the Director of Public Works or designee for a compactor, the developer or owner shall submit the following:

- (1) Plan for how residents will dispose of garbage in the event of compactor failure;
- (2) Specifications for compactor including compaction ratio;
- (3) Site location plan for compactor;
- (4) Access plan for servicing compactor;
- (5) Compactor access plan for residents meeting all applicable accessibility requirements;
- and
- (6) Recycling plan for the multi-family complex.

(E) Notwithstanding the provisions of subsections (A) through (D) above, the city council may authorize tests, trial or experimental arrangements for solid waste collection.

Section 4. That Section 6-3-32 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said section so that it will read as follows:

SEC. 6-3-32 LOCATION OF CONTAINERS, COMPACTORS AND RECYCLING CENTERS; INCLUSION IN SITE PLAN.

Developers of condominiums and multi-family dwelling developments, including such developments which also have duplex houses, will include in the site plan the location for containers, compactors, and recycling centers to be serviced by the city for approval by the Director of Public Works or designee. Containers, compactors, and recycling centers shall be provided by the developer on site before a certificate of occupancy for the structure shall be issued by the city.

Section 5. That Section 6-3-33 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said section so that it will read as follows:

SEC. 6-3-33 SAME; PICKUP ACCESSIBILITY.

Containers, compactors, and recycling centers must be located for accessibility by Sanitation Division or city contractor pickup equipment.

Section 6. That Section 6-3-34 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said section so that they will read as follows:

SEC. 6-3-34 PURCHASE AND MAINTENANCE OF CONTAINERS AND COMPACTORS.

(A) It will be the responsibility of the owner to ~~make the original purchase of these containers or compactors and to maintain and repair them except that and the Sanitation Division will thereafter for a period of 12 months maintain the containers. During the 12-month period, if the container is purchased from the city, the~~ the city will repair any container or compactor damaged by its refuse trucks and/or employees. Specifically, it shall be the responsibility of the owner to bear all costs of replacement of siding, bottoms, lids and necessary patching of any holes developing in the containers. It shall be the responsibility of the owner to maintain the container or compactor in a serviceable condition and to make necessary repair or replacement of the container or compactor within ten days of notice of needed repair.

(B) ~~The 12-month warranty is only applicable to the~~ Notwithstanding the provisions of subsection (A) above, for containers that meet the specifications outlined in section 6-3-24 which are purchased from the city, the Department will perform all necessary repairs to the containers at the city's expense for the 12 month warranty period beginning on the date of purchase from the city, except for repairs necessitated by deliberate acts of the owner or any other person. ~~and not applicable for any approved compactor.~~

Section 7. All ordinances or parts of ordinances in conflict herewith are hereby repealed to the extent of such conflict.

Section 8. Any part or provision of this ordinance found by a court of competent jurisdiction to be in violation of the Constitution or laws of the United States or North Carolina is hereby deemed severable and shall not affect the validity of the remaining provisions of the ordinance.

Section 9. This ordinance shall become effective July 1, 2010.

This the 8th day of April, 2010.

Patricia C. Dunn, Mayor

ATTEST:

Wanda T. Elks, City Clerk

NOTE: Ordinance if ordinance to require recycling center at multi-family dwellings not approved.

ORDINANCE NO. 10-_____
ORDINANCE AMENDING CHAPTER 3 OF TITLE 6
OF THE GREENVILLE CITY CODE BY REWRITING CERTAIN
SECTIONS WHICH RELATE TO SOLID WASTE COLLECTION IN ORDER
TO ALLOW COMPACTORS AT MULTI-FAMILY DWELLINGS

THE CITY COUNCIL OF THE CITY OF GREENVILLE, NORTH CAROLINA, DOES
HEREBY ORDAIN:

Section 1. That Section 6-3-23 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said section so that it will read as follows:

SEC. 6-3-23 CONTAINERS; REQUIRED EQUAL TO NEED; CONCRETE PICKUP PLATFORM.

Multi-family dwellings will be serviced by the city by a container-type refuse truck; therefore, these locations will be required to store their garbage, trash or other waste in container sizes of six or eight cubic yards equivalent to their needs. Multi-family dwellings with existing three or four cubic yard dumpsters will be allowed to be serviced with existing three or four cubic yard dumpsters as long as they are compatible with front loader refuse trucks. **Compactors or roll-out carts are an option in accordance with the provisions of subsections (C) and (D) of Section 6-3-31.** All multi-family dwellings will be required to install their own concrete platform for these containers. The location of these containers will be chosen with regard to the best interest of public safety and to where the city refuse trucks can service them with the least maneuvering. Final approval as to the location will be made by the Public Works Director or designee.

Section 2. That Section 6-3-25 (A) of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said subsection so that it will read as follows:

(A) It will be the responsibility of the owner to make the original purchase of containers, and if purchased new, the Sanitation Division will provide a 12-month warranty if purchased from the city. During the 12-month period, the Department will perform all necessary repairs to the containers at the city's expense, **except for repairs necessitated by deliberate acts of the owner or any other person. Approved compactors and containers not purchased from the city will not have a warranty period and will not be maintained or repaired by the city.**

Section 3. That Section 6-3-25 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting subsection (D) and adding subsection (E) so that they will read as follows:

(D) Notwithstanding the provisions of subsections (A) and (B), owners of multi-family units may elect to utilize a compactor in lieu of meeting the requirements of subsection (A) or (B) above if approved by the Director of Public Works or designee. The compactor will receive solid waste collection service from the city or a company contracted by the city. The ratio of compaction to uncompacted garbage shall be submitted as a part of the request for approval of a compactor. Compactor must be sized to be equivalent to 1 yard of uncompacted garbage dumpster space per 4 units. To be considered for approval by the Director of Public Works or designee for a compactor, the developer or owner shall submit the following:

- (1) Plan for how residents will dispose of garbage in the event of compactor failure;
- (2) Specifications for compactor including compaction ratio;
- (3) Site location plan for compactor;
- (4) Access plan for servicing compactor; and
- (5) Compactor access plan for residents meeting all applicable accessibility requirements.

(E) Notwithstanding the provisions of subsections (A) through (D) above, the city council may authorize tests, trial or experimental arrangements for solid waste collection.

Section 4. That Section 6-3-32 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said section so that it will read as follows:

SEC. 6-3-32 LOCATION OF CONTAINERS AND COMPACTORS; INCLUSION IN SITE PLAN.

Developers of condominiums and multi-family dwelling developments, including such developments which also have duplex houses, will include in the site plan the location for containers or compactors to be serviced by the city or a company contracted by the city for approval by the Director of Public Works or designee. Containers or compactors shall be provided by the developer on site before a certificate of occupancy for the structure shall be issued by the city.

Section 5. That Section 6-3-33 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said section so that it will read as follows:

SEC. 6-3-33 SAME; PICKUP ACCESSIBILITY.

Containers and compactors must be located for accessibility by Sanitation Division or city contractor pickup equipment.

Section 6. That Section 6-3-34 of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said section so that they will read as follows:

SEC. 6-3-34 PURCHASE AND MAINTENANCE OF CONTAINERS AND COMPACTORS.

(A) It will be the responsibility of the owner to ~~make the original purchase of these containers or compactors and to maintain and repair them except that and the Sanitation Division will thereafter for a period of 12 months maintain the containers. During the 12 month period, if the container is purchased from the city, the~~ the city will repair any container or compactor damaged by its refuse trucks and/or employees. Specifically, it shall be the responsibility of the owner to bear all costs of replacement of siding, bottoms, lids and necessary patching of any holes developing in the containers. It shall be the responsibility of the owner to maintain the container or compactor in a serviceable condition and to make necessary repair or replacement of the container or compactor within ten days of notice of needed repair.

(B) ~~The 12 month warranty is only applicable to the~~ Notwithstanding the provisions of subsection (A) above, for containers that meet the specifications outlined in section 6-3-24 which are purchased from the city, the Department will perform all necessary repairs to the containers at the city's expense for the 12 month warranty period beginning on the date of purchase from the city, except for repairs necessitated by deliberate acts of the owner or any other person. ~~and not applicable for any approved compactor.~~

Section 7. All ordinances or parts of ordinances in conflict herewith are hereby repealed to the extent of such conflict.

Section 8. Any part or provision of this ordinance found by a court of competent jurisdiction to be in violation of the Constitution or laws of the United States or North Carolina is hereby deemed severable and shall not affect the validity of the remaining provisions of the ordinance.

Section 9. This ordinance shall become effective July 1, 2010.

This the 8th day of April, 2010.

Patricia C. Dunn, Mayor

ATTEST:

Wanda T. Elks, City Clerk



City of Greenville, North Carolina

Meeting Date: 4/8/2010
Time: 7:00 PM

Title of Item: Ordinance amending Section 6-3-4 of the City Code relating to solid waste receptacles

Explanation: The purpose of the proposed amendment (attached in strike through and final versions) to the existing garbage and refuse collection and disposal ordinance is to require all roll-out containers purchased for residential curbside service after July 1, 2010, to be purchased from the City of Greenville Public Works Department.

This action will address the following problems related to containers that have come to staff's attention over the last year:

- Residents have purchased a roll-out container from a vendor other than the City and the container is not compatible with City trucks. Therefore, the fee cannot be changed to the curbside rate.
- Residents have purchased a roll-out container from a vendor and not requested a "cart check" by Public Works. Thus the fee cannot be changed to the curbside rate.
- Private vendors roll-out containers do not have a serial number. This makes it difficult to track if cart is missing or if the cart is given to another resident.

This proposed change to the ordinance will provide benefits to citizens and minimize problems in the following ways:

- Reduces number of incorrect billings for citizens who purchase a roll-out container from an outside vendor, and fail to notify Public Works that they are converting to curbside service
- City roll-out containers are generally less expensive. On March 25, 2010, the prices for approved roll out containers at the locations that have them available locally were:

- o Public Works- 96 gal. \$61.89/64 gal. \$57.89
- o Lowe's Hardware- 96 gal. \$89.00/64 gal. \$69.00

- o Wal-Mart 96 gal.- NA/ 64 gal. \$68.86
- o Home Depot- 96 gal. NA/ 64 gal. NA/ 50 gal. \$64.97

Roll-out containers are delivered to the citizen’s home by the City if requested by the citizen

- City provides a warranty repair service for roll-out containers it sells.
- Containers can be purchased by phone, mail, or in person at the Public Works Department and the refuse fee will be immediately changed

This requirement also will benefit the City in the following ways:

- Reduces labor associated with checking roll-out containers purchased from an outside vendor to determine if they are city approved containers
- Reduces labor associated with resolving billing issues and customer billing complaints
- Ensures citizen’s roll-out container is compatible with City refuse trucks automatic dumping mechanism

This request to amend Section 6-3-4 is beneficial to both the citizen, and the City. If approved, this requirement will provide a more seamless ability to adjust bills appropriately, reduce billing conflicts, and provide for a timely service.

Fiscal Note:

The amendment will create an increase in costs to purchase additional roll-out containers, but net revenue for the Sanitation Fund will increase by an estimated \$2,000 per year.

Recommendation:

Approve the attached ordinance relating to solid waste receptacles.

Viewing Attachments Requires Adobe Acrobat. [Click here](#) to download.

Attachments / click to download

[_redlined_857671_Ordinance_amending_Sec._6_3_4_Receptacles_859203](#)

[_clean_857671_Ordinance_amending_Sec._6_3_4_Receptacles_859205](#)

ORDINANCE NO. 10-_____
ORDINANCE AMENDING SECTION 6-3-4 OF THE
GREENVILLE CITY CODE RELATING TO SOLID WASTE RECEPTACLES

THE CITY COUNCIL OF THE CITY OF GREENVILLE, NORTH CAROLINA, DOES HEREBY ORDAIN:

Section 1. That Section 6-3-4 (D) of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said subsection so that it will read as follows:

(D) In lieu of providing the receptacles described in subsection (B) above, the occupant of any residential dwelling unit may elect to use a roll-out cart for garbage and/or recyclables. If a roll-out cart for garbage is used under the election provided by this subsection, the cart must be purchased from the Public Works Department except that the occupant of a residential dwelling unit may use a cart purchased from a vendor other than the Public Works Department if the occupant has elected to use a rollout cart for garbage and/or recyclables and the cart utilized by the resident was approved for use at the resident's dwelling unit by the Director of Public Works or designee on or before July 1, 2010. ~~approved by the Director of Public Works. In approving carts for use within the city, the Director shall consider the compatibility of the cart with city collection equipment.~~ When roll-out carts are used for garbage, they must be rolled out to the curb before 6:00 a.m. on the day designated for garbage collection service. When roll-out carts are used for garbage the occupant of the residential unit may use containers described in subsection (B) above for recyclables, provided the recyclable containers are brought to the curb before 6:00 a.m. on the day designated for recyclable collection service. Employees of the Public Works Department will neither roll nor relocate roll-out carts or recycling receptacles from any location on the property to the curb. Public Works employees will leave all emptied carts or curbside recyclable receptacles at or near the front yard property line.

Section 2. All ordinances or parts of ordinances in conflict herewith are hereby repealed to the extent of such conflict.

Section 3. Any part or provision of this ordinance found by a court of competent jurisdiction to be in violation of the Constitution or laws of the United States or North Carolina is hereby deemed severable and shall not affect the validity of the remaining provisions of the ordinance.

Section 4. This ordinance shall become effective July 1, 2010.

This the 8th day of April, 2010.

Patricia C. Dunn, Mayor

ATTEST:

Wanda T. Elks, City Clerk

ORDINANCE NO. 10-_____
ORDINANCE AMENDING SECTION 6-3-4 OF THE
GREENVILLE CITY CODE RELATING TO SOLID WASTE RECEPTACLES

THE CITY COUNCIL OF THE CITY OF GREENVILLE, NORTH CAROLINA, DOES HEREBY ORDAIN:

Section 1. That Section 6-3-4 (D) of the Code of Ordinances, City of Greenville, be and is hereby amended by rewriting said subsection so that it will read as follows:

(D) In lieu of providing the receptacles described in subsection (B) above, the occupant of any residential dwelling unit may elect to use a roll-out cart for garbage and/or recyclables. If a roll-out cart for garbage is used under the election provided by this subsection, the cart must be purchased from the Public Works Department except that the occupant of a residential dwelling unit may use a cart purchased from a vendor other than the Public Works Department if the occupant has elected to use a rollout cart for garbage and/or recyclables and the cart utilized by the resident was approved for use at the resident's dwelling unit by the Director of Public Works or designee on or before July 1, 2010. When roll-out carts are used for garbage, they must be rolled out to the curb before 6:00 a.m. on the day designated for garbage collection service. When roll-out carts are used for garbage the occupant of the residential unit may use containers described in subsection (B) above for recyclables, provided the recyclable containers are brought to the curb before 6:00 a.m. on the day designated for recyclable collection service. Employees of the Public Works Department will neither roll nor relocate roll-out carts or recycling receptacles from any location on the property to the curb. Public Works employees will leave all emptied carts or curbside recyclable receptacles at or near the front yard property line.

Section 2. All ordinances or parts of ordinances in conflict herewith are hereby repealed to the extent of such conflict.

Section 3. Any part or provision of this ordinance found by a court of competent jurisdiction to be in violation of the Constitution or laws of the United States or North Carolina is hereby deemed severable and shall not affect the validity of the remaining provisions of the ordinance.

Section 4. This ordinance shall become effective July 1, 2010.

This the 8th day of April, 2010.

Patricia C. Dunn, Mayor

ATTEST:

Wanda T. Elks, City Clerk



City of Greenville, North Carolina

Meeting Date: 4/8/2010
Time: 7:00 PM

Title of Item: Resolutions establishing state legislative initiatives

Explanation: Based upon the direction of City Council at its April 5, 2010, meeting, resolutions which establish the City's legislative initiatives for the 2010 Session of the North Carolina General Assembly will be prepared for City Council's consideration.

Fiscal Note: The development of the legislative initiatives will not have a fiscal impact.

Recommendation: Approval of the resolutions which establish the City's legislative initiatives.

Viewing Attachments Requires Adobe Acrobat. [Click here](#) to download.

Attachments / click to download
