## **REQUEST FOR BOARD ACTION**

## Henderson County Board of Commissioners

Meeting Date:	March 19, 2008		
Subject:	Water Line Extension – Etowah Land Development Co., Benjamin Smith minor subdivision.		
Attachments:	<ol> <li>Vicinity Map:</li> <li>Engineer's Report</li> <li>Project Summary</li> <li>Project Map</li> <li>County Review Sheet</li> </ol>		

### **Summary of Request:**

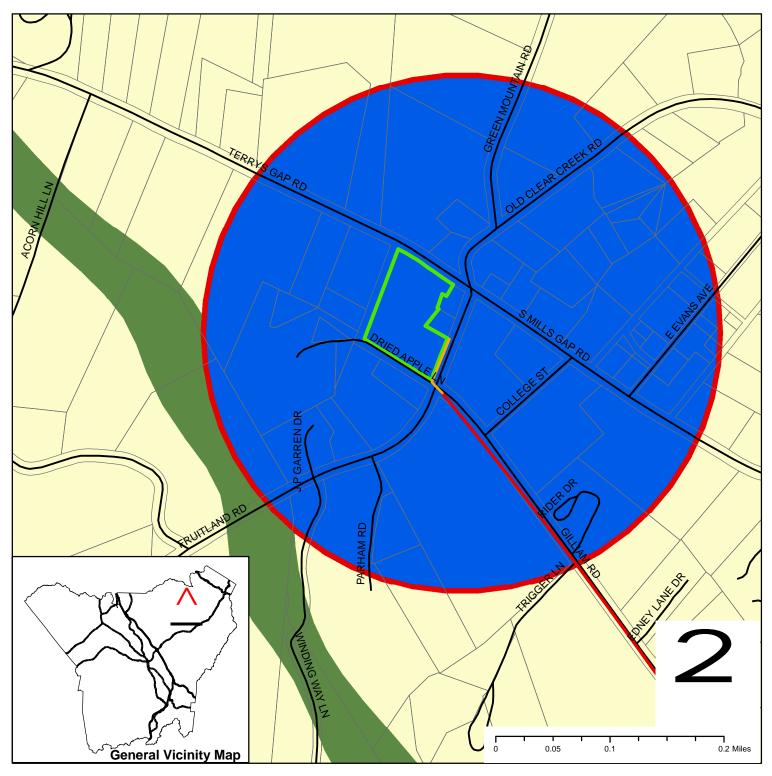
The City of Hendersonville has requested that the County comment on the proposed waterline extension for the Etowah Land Development Co., Benjamin Smith minor subdivision. The project is within a Community Service Center and the Rural/Urban Transition Area determined by the County Comprehensive Plan. This project requires approximately 350 linear feet of waterline. A City of Hendersonville Project Summary Sheet, with supporting documents and County Review Sheet with Staff comments, are attached for Board review and action.

#### **Board Action Request:**

Action by the Board of Commissioners is needed to either grant or deny this request. If the Board decides to approve the requested extension the following motion has been provided.

#### **Suggested Motion:**

I move that the Board approve the Etowah Land Development Co. waterline extension and direct Staff to convey the County's comments to the City of Hendersonville.



## **Etowah Land Development**

OWNER/DEVELOPER: Benjamin Smith ZONING: R-2MH SEWER SYSTEM: Individual

## Legend

- Proposed Water Line
  - Existing and Approved Waterlines



Llowan Land Development

Community Service Centers

Conservation

Rural/Urban Transition Area

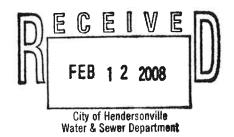


7 Woodcrest Rd. Asheville, NC 28804 (828) 252-5100 (828) 606-0034

January 22, 2008

City of Hendersonville Engineering Dept. 305 Williams Street Hendersonville NC 28793

Re: Water Line Extension for Etowah Land Development Co Fruitland Road – Henderson County



The Developer proposes to extend an 8" water main across Fruitland Road and then north from the end of the existing 8" line serving Fruitland Baptist Bible College to serve a property that is subdivided for development as single-family homes. The line will tie in to an existing stub for this project on the east side of Fruitland Road and will cross Fruitland Road and run in the public Right of Way for Fruitland Road approximately 280 linear feet to a dead man stub out.

The developer for the project is: Ben Smith, Resderd-Etowah Land Development Co

POB 1646 Etown 28729.

Tel- 828-606-4309

The Engineer for the project is: Thomas R Wilson, PE 7 Woodcrest Road Asheville, NC 28804 Tel- 828-252-5100

We are requesting a 5/8" Meters to serve each of the lots in the proposed subdivision. All meters will be located in the public right of way with 3/4" lines extended to serve each lot.

Please review this request and call if you have any questions.

Sincerely oms A.We

WILSON ENGINEERING CIVIL ENGINEERING/SITE DESIGN

January 22, 2008

City of Hendersonville Engineering Dept. 305 Williams Street Hendersonville NC 28793

Re: Water Line Extension for Etowah Land Development Co. Fruitland Road – Henderson County

#### Engineering Report

Materials – 270 lf 12" DIP Class 350 and 80 lf 8" DIP Class 350 Valves- One 8" and two 12" resilient seat Gate Valves w/ non-rising stems, 2" operating nut installed in roadway boxes

Fire Hydrants- None (existing)

Demand-Estimated @ 2500 GPD

Maximum Instantaneous demand- 50 GPM domestic,

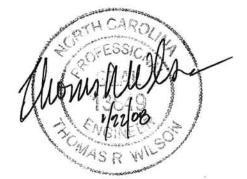
Head Loss- Static @ -18'=-7psi Dynamic @ 0'=0psi

Existing - Static - 60 psi

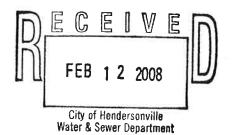
Residual – 48 psi @ 1150 gpm (taken at Fruitland Baptist Bible College) Estimated pressure at last service point @ 50 GPM demand = 60psi Connections to the system- 10 connection @  $\frac{3}{4}$ " taps w/  $\frac{5}{8}$ " meters Pumps- None ARV- None

Highest Elevation on the system- 2187 +- MSL

Thomas R Wilson, PE



7 Woodcrest Rd. Asheville, NC 28804 (828) 252-5100 (828) 606-0034



#### PROJECT SUMMARY WATER UTILITY EXTENSION Etowah Land Development

#### February 12, 2008

To: Honorable Mayor and Members of City of Council

From: Water & Sewer Department Staff

RE: STAFF RECOMMENDATION FOR ACCEPTANCE OF WATER UTILITY EXTENSION AGREEMENT (WUEA)

This is a project to extend lines to provide water service to a propsed subdivision consisting of property that is subdivided for development as single-family homes. This project is located **along Fruitland Road**. This project is under the reviewing jurisdiction of **Henderson County** and is located within the **USA – Urban Services Area**. This project **will not** involve an IBT (Interbasin Transfer) from the French Broad River Basin. The entire cost of the proposed water line extension is to be paid for by **Etowah Land Development Company of Etowah NC**.

This project requires approximately 350 linear feet of water line sized as following:

Approximate Length:	Description:
270 lf	12" DIP CL 350
80 lf	8" DIP CL 350

Fire Protection will be provided by the installation of **0**-fire hydrant(s).

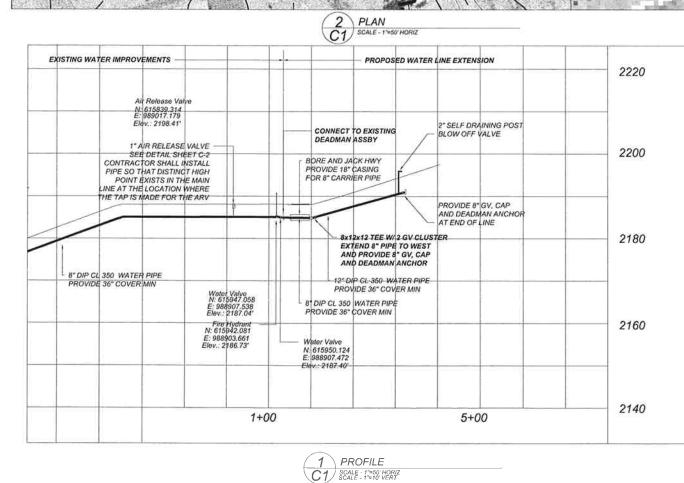
The Reviewing Jurisdiction, listed below, has to their adopted land use plan or in terms of	s completed their review of this utility extension request in regard its future impact on existing land uses for that local government.
Reviewing Jurisdiction: Henderson County Approved Disapproved (See attached Narrative Comments Provided: Yes N	letter provided to the City by the Reviewing Jurisdiction)
Signing Official:(Print)	Date:

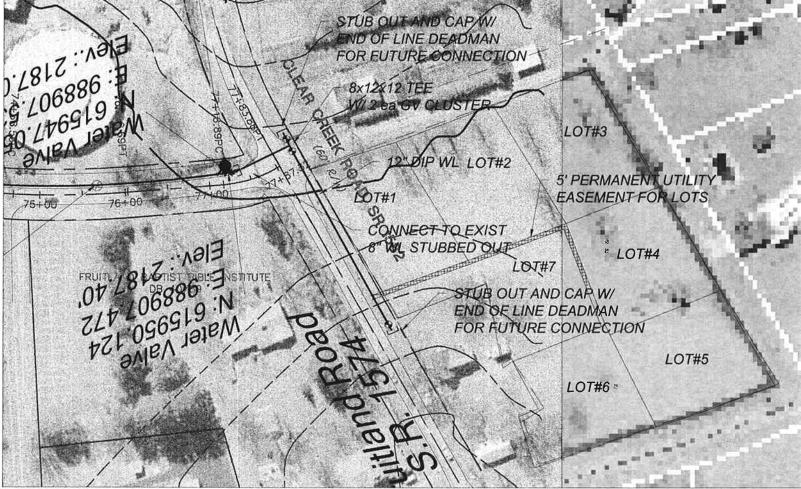
Based on the above information, the Water & Sewer Department has the capacity to support this additional infrastructure and associated connections and hereby recommends approval of said project contingent upon final approval of construction plans and specifications by the Water & Sewer Department.

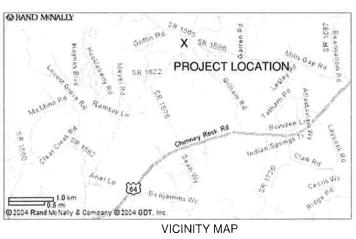
A motion is needed to approve and accept this project. Suggested wording for motion is as follows:

# *"I move to accept this Water Utility Extension Project and to authorize the City Manager to execute the associated Water Utility Extension Agreement on behalf of the City."*

Water and Sewer Department:	Approved	Disapproved	Date:	A State of the second
Henderson Co. Commissioners:	Approved	Disapproved	Date:	
Hendersonville City Council:	Approved	Disapproved	Date:	New Arthur Yes









#### NOTES

1. ALL CONSTRUCTION WILL BE IN ACCORDANCE WITH HENDERSONVILLE CITY WATER DEPT. CURRENT STANDARDS. ALL CONSTRUCTION WILL BE INSPECTED BY THE HENDERSONVILLE CITY WATER DEPT STAFF FOR COMPLIANCE.

2. ALL CONSTRUCTION WILL BE PERFORMED BY A CONTRACTOR LISENCED BY THE STATE OF NORTH CAROLINA AS A PUBLIC UTILITY CONTRACTOR OR AS UNCLASSIFIED WITH THE APPROPRIATE LIMITS.

3. ALL FITTINGS SHALL BE DUCTILE IRON COMPACT BODY FITTINGS UNLESS NOTED OTHERWISE.

4. TAPPING SLEEVE SHALL BE MUELLER #H-615 OR APPROVED EQUAL. TAPPING VALVE SHALL BE A NON-RISING STEM DESIGN WITH A RESILLIENT SEAT AND A 2-IN OPERATING NUT.

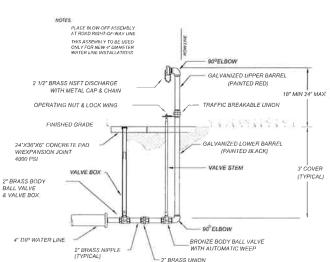
5. CONTRACTOR MUST PROVIDE THRUST RESTRAINT WITH MEGA-LUGS OR WEDGE ACTION RETAINING GLANDS UNLESS NOTED OTHERWISE. FIELD LOK GASKETS MUST BE USED IN STRAIGHT RUNS OF PIPE.

6. DISINFECT LINE AND PRESSURE TEST IN ACCORDANCE HENDERSONVILLE CITY WATER DEPT. REQUIREMENTS.

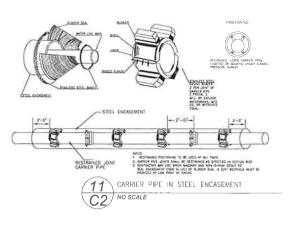
7. COMPACT EARTH IN THE TRENCH TO 95% MDD - ASTM D 695

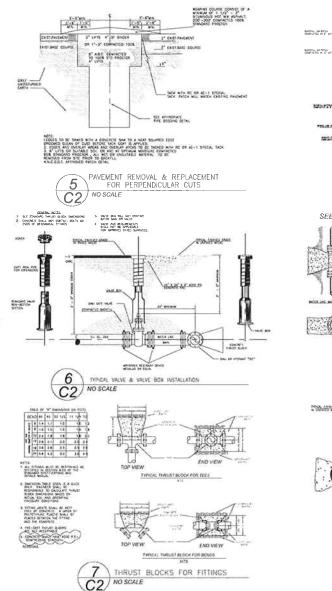
8. BACKFLOW PREVENTER SHALL BE IN ACCORDANCE WITH HENDERSONVILLE CITY WATER DEPARTMENT STANDARDS FOR DOUBLE CHECK VALVES CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO CITY FOR APPROVAL.

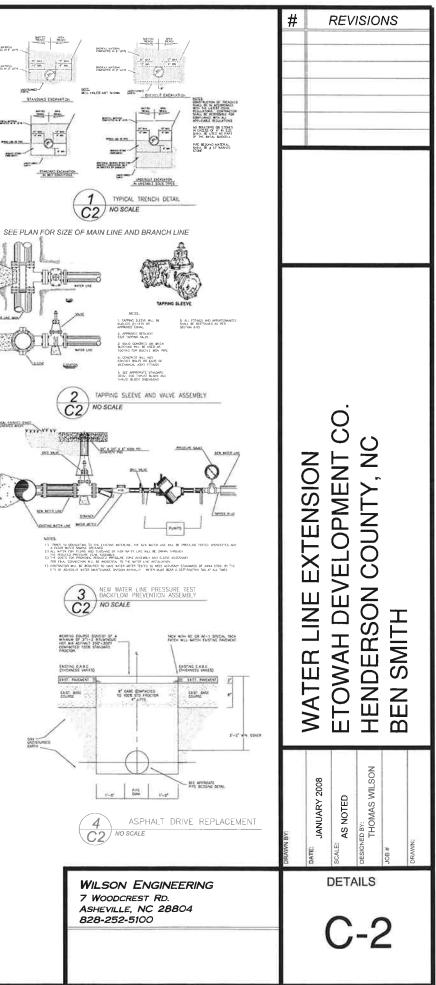
10, ALL WATER LINES SHALL BE INSTALLED A MINIMUM OF 36 INCHES BELOW FINISHED GRADE, WHERE WATER LINES CROSS SEWER LINES, THE MINIMUM SEPERATION SHALL BE 18 INCHES VERTICALLY. WHERE WATER LINES CROSS ALL OTHER UTILITIES, THE MINIMUM SEPERATION SHALL BE 12 INCHES VERTICALLY. WHERE MINIMUM CLEARANCE BETWEEN WATER AND SEWER CANNOT BE MAINTAINED OR IF THE WATER LINE PASSES UNDER THE SEWER, THE SEWER SHALL BE REBUILT WITH DUCTILE IRON PIPE A MINIMUM OF TEN FEET ON BOTH SIDES OF THE WATER LINE AND THE WATER LINE SHALL BE CONSTRUCTED OF DIP FOR TEN FEET ON EITHER SIDE OF THE SEWER LINE.











26" 64a

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### HENDERSON COUNTY REVIEW OF CITY WATER LINE EXTENSIONS

Project Name:	Smith, Ben; Etowah Land Development			
Size of Water Line (M	ain & Distribution Pipe Size):270 LF, 12" CL 350; 80 LF, 8" DIP CL 350			
County Staff Reviewin	ng Extension: Rocky Hyder, Fire Marshall; Parker Sloan, Planner; Autumn Radcliff, S	enior Planr	ner	
Has the project been	reviewed under the County Subdivision Regulations of the Land Development Code?	⊠ Yes	□ No	□ N/A
Date reviewed:	September 6, 2007			
Action:				
Conditions:	Approved as minor subdivision			
Comments:				
	reviewed under the County Manufactured Park Regulations of the Land Development Code?	☐ Yes	□ No	⊠ N/A
Date reviewed:				
Action:				
Conditions:				
Comments:				
of the Land Develop	reviewed under the County Zoning Regulations (i.e. Special-Use or Conditional-Use Permit) ment Code?	☐ Yes	⊠ No	□ N/A
Date reviewed: Action:				
Conditions:				
Comments:				
Comments.				
Is the project subject t	to any other County Land Use Regulations?	□ Yes	⊠ No	□ N/A
lf yes, explain:				
Does the project confe	orm with the 2020 Henderson County Comprehensive Plan (CCP)?	⊠ Yes	□ No	□ N/A
Does the project have adequate hydrant location and spacing?		⊠ Yes	□ No	□ N/A
Description of hydran		_	_	_
Does the estimated flo than 30 feet.	ow rate (gpm) meet fire protection standards? Meets standard for structure spacing of more	⊠ Yes	No	N/A

BOARD OF COMMISSIONERS APPROVAL				
	Approved	Date of Board Review:		
	Not Approved	Comments:		
	Conditional Approval (See Comments)			