HENDERSON COUNTY REVIEW OF CITY WATER LINE EXTENSIONS

Project Name:	Mountain Top, Phase 1 and 2					
Size of Water Line	(Main & Distribution Pipe Size): Mueller Centurion – Nationa	al Standard Thread				
County Staff Revie	wing Extension: Matt Card, Planner; Lori Sand, Project N	Manager; Rocky Hyder, Fire Ma	arshal			
Has the project bee	on reviewed under the County Subdivision Ordinance?		⊠ Yes	□ No	□ N/A	
Date reviewed:	August 16, 2005					
Action:	Approved with Conditions					
Conditions:	Final Plat Requirements, Road Name Approval, Water Approval and Soil Erosion Plan					
Comments:						
Has the project bee	n reviewed under the County Manufactured Park Ordinance?		☐ Yes	□ No	⊠ N/A	
Date reviewed:						
Action:						
Conditions:						
Comments:						
Has the project bee	n reviewed under the County Zoning Ordinance (i.e. Special-Use	or Conditional-Use Permit)?	Ü		\boxtimes	
Date reviewed:			Yes	No	N/A	
Action:						
Conditions:						
Comments:		_				
Is the project subject to any other County Land Use Ordinance?		⊠ Yes	□ No	□ N/A		
If yes, explain: Property is in the Water Supply Watershed District IV						
Does the project co	nform with the 2020 Henderson County Comprehensive Plan (CC	: P) ?		\boxtimes		
			Yes	No	N/A	
Does the project ha	e adequate hydrant location and spacing?		⊠ Yes	□ No	□ N/A	
Description of hydra	ant type and thread: Mueller Centurion – National Standa	ard Thread	,	110	WA	
Does the estimated	flow rate (gpm) meet fire protection standards? No estimated flow	provided due to ongoing			\boxtimes	
construction. Minim	um flow rate of 750 gpm should be provided for structures spaced 3	1 to 100 feet apart.	Yes	No	N/A	
BOARD OF COMMISSIONERS APPROVAL						
		of Board Review:				
	77077 10704	ments:				
	Conditional Approval (See Comments)					

City of Hendersonville - Project Summary Water Line Extension Mountain Top, Phase 1 & 2

Date: October 19, 2005

This is a project to extend existing water lines to provide water service to 65 residential lots in the Mountain Top area of the existing Cummings Cove Golf & Country Club, east of the Etowah community.

This project is under the reviewing jurisdiction of: Henderson County.

This project requires approximately **4,600** linear feet of water line sized as following:

Description:

Approximate Length

6" DIP CL350

4,600 lf

Fire Protection will be provided by the installation of 13 fire hydrant(s).

The entire cost of the proposed water line extension is to be paid for by Cummings Cove Company, LLC.

Water pressure and flow in this area is as follows:

The lines in this project will be connecting to another section that is under construction. Therefore, actual pressure & flow is not available at this time. The Engineer is responsible to ensure that pressure meets the State requirements.

Based on the above information, the Water & Sewer department is capable of supporting the additional connections and recommends approval of the project contingent upon approval of the final plans and specifications from the Water & Sewer Department.

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

I move to accept this water line extension project and to authorize the City manager to execute the water line extension agreement on behalf of the City.

Water & Sewer Department:		roved Date: 10-12-05
Hendersonville City Council:	☐ Approved ☐ Disapp	roved Date:
The undersigned represents this utilit	y extension line request has been	n evaluated in light of the adopted
land use plan for the municipality or F area to be served, this extension has	lenderson County. In the absenc	ce of such a plan for the general
Reviewing Jurisdiction: Hender	이 가게 되는 것 같아. 하게 하게 어떻게 하는 것 같아요. 이 나는 그 살이 하고 있는데 하다 하는 것이 없는데 그렇게 되었다. 그 나라 하다 그 나라 하다	
Signing Official:		
Date of Review:		
☐Approved ☐Disapproved		
Narrative Comments Provided:	☐ Yes ☐ No	

ENGINEER'S REPORT

FOR

CUMMINGS COVE GOLF & COUNTRY CLUB

MOUNTAIN TOP AREA – PHASES 1 & 2 WATER SYSTEM IMPROVEMENTS

CITY OF HENDERSONVILLE HENDERSON COUNTY, NORTH CAROLINA

PREPARED BY:

WILLIAM G. LAPSLEY & ASSOCIATES, P.A. CONSULTING ENGINEERS 1635 ASHEVILLE HIGHWAY HENDERSONVILLE, NORTH CAROLINA

SEPTEMBER 2005

ENGINEER'S REPORT CUMMINGS COVE GOLF & COUNTRY CLUB MOUNTAIN TOP AREA – PHASES 1 & 2 WATER SYSTEM IMPROVEMENTS

1. NAME AND ADDRESS OF APPLICANT

City of Hendersonville
P.O. Box 1760
Hendersonville, NC 28793

2. PROJECT DESCRIPTION & INTRODUCTION

This project is located off of Cummings Road east of the community of Etowah. The project involves the extension of approximately 4600 LF of 6" water main to serve two new phases of the Cummings Cove Golf & Country Club . The water system users are all residential in nature.

3. DESCRIPTION OF FUTURE SERVICE AREAS

These extensions will serve Phases 1 & 2 of the Mountain Top Area of Cummings Cove. The extensions could serve other phases of Cummings Cove with future extensions.

4. PRESENT AND ANTICIPATED WATER DEMANDS

There is currently no water demand at the site. This phase of the development will create 65 additional lots. Expected water usage is 26,000 gallons per day.

5. CHARACTER OF THE SOURCE OF SUPPLY

The water supply for this project is from the City of Hendersonville Water Treatment Plant.

6. AGREEMENTS TO PURCHASE WATER

Not Applicable

7. USEFUL LIFE OF FACILITIES

The useful life of the water lines for this project is expected to be 30 years minimum.

8. MAXIMUM DAILY TREATED WATER SUPPLY AND MAXIMUM DAILY DEMAND

The maximum daily treated water supply for the City of Hendersonville water plant is 12 MGD. The average demand is 7.2 MGD, with a daily peak (for the year) of 9.5 MGD.

9. IDENTIFICATION & DESCRIPTION OF THE SERVICE AREA

The service area for this project is the Mountain Top Area of Cummings Cove, Phases 1 & 2. This property was previously forest land.

10. CONSIDERATION OF ALTERNATIVES TO CONSTRUCTING A NEW WATER SYSTEM

Not applicable

11. POPULATION RECORDS AND TRENDS

According to the Office of State Planning, The population of the City of Hendersonville in 1998 was 9,538 persons. The growth rate from 1990 to 1998 was 30.9%.

12. PRESENT AND FUTURE YIELD FROM THE SOURCES OF SUPPLY

The City of Hendersonville Water Plant currently draws water from the Mills River. The present and future yield of the source of supply is expected to be adequate for the City of Hendersonville's needs.

13. PROPOSED WATER TREATMENT PROCESSES

Not Applicable

14. **DESIGN BASIS**

The design basis for this project is to provide adequate flow and 30 psi minimum throughout the system.

15. PRIORITIZED LIST OF INFRASTRUCTURE IMPROVEMENTS

Not applicable