REQUEST FOR BOARD ACTION

HENDERSON COUNTY BOARD OF COMMISSIONERS

MEETING DATE: Monday, February 6, 2006

SUBJECT: Water & Sewer Line Extensions

ATTACHMENTS: Yes

Orchards at Flat Rock, Offsite & Phase 1 – Water Line Extension
 Orchards at Flat Rock, Offsite & Phase 1 - Sewer Line Extension

SUMMARY OF REQUEST:

The City of Hendersonville has requested that the County comment on the proposed water line and sewer line extensions for the project listed above. Staff has reviewed the water and sewer lines and has provided the project summary and staff's review as attached.

RECOMMENDATION / BOARD ACTION REQUESTED:

County Manager recommends approval of the water line and sewer line extensions and directs staff to convey the County's comments upon Board approval.

City of Hendersonville - Project Summary Water Line Extension Orchards at Flat Rock Offsite & Phase 1

Date: December 9, 2005

This is a project to extend existing water lines to provide water service to a proposed residential development. The entire development will consist of 212 residential units broken into phases. Phase 1 will have 124 units. This project is located on South Orchard Road, just off of Upward Road.

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

This project requires approximately **7668** linear feet of water line sized as following:

Description:

Approximate Length

8" DIP CL 350

7668 LF

Fire Protection will be provided by the installation of thirteen (13) fire hydrants.

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

Water pressure and flow in this area is as follows:

Static Pressure:

60 PSI

Hydrant # 07-1096

Residual:

28 PSI

Flow:

700 GPM

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:	Date:
Hendersonville City Council:	Date:
The undersigned represents this utility extension line request has been evaluated	ated in light of the adopted
land use plan for the municipality or Henderson County. In the absence of suc	ch a plan for the general
area to be served, this extension has been evaluated in terms of its future imp Reviewing Jurisdiction: Henderson County	act on existing land uses.
Signing Official:	
Date of Review:	
Approved Disapproved	
Narrative Comments Provided: Yes No	

City of Hendersonville - Project Summary **Sewer Line Extension** Orchards at Flat Rock Offsite & Phase 1

Date: December 9, 2005

This is a project to extend existing water lines to provide water service to a proposed residential development. The entire development will consist of 212 residential units

broken into phases. Phase 1 will have 124 units. This project is located on South Orchard Road, just off of Upward Road. This project is under the reviewing jurisdiction of: **Henderson County.** This project requires approximately 2464' of Gravity line and 5980' of Force Main sized as following: Description: Approximate Length 8" SDR 35 - Gravity 2464' 5980' 6" C900 PVC Pump station required: X yes No The amount of wastewater generated by this project will be approximately 79,500 gallons per day. The entire cost of the proposed sewer line extension is to be paid for by The Orchards, LLC. 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 sewer line extension project and to authorize the City manager to execute the sewer line extension agreement on behalf of the City. Water & Sewer Department:

Approved Disapproved Date: Hendersonville City Council: Approved Disapproved Date:

The undersigned represents this utility extension line request has been evaluated in light of the adopted
land use plan for the municipality or Henderson County. In the absence of such a plan for the general
area to be served, this extension has been evaluated in terms of its future impact on existing land uses.
Reviewing Jurisdiction: Henderson County
Signing Official:
Date of Review:
Approved Disapproved
Narrative Comments Provided: Yes No



Memo

Date: Tuesday, October 18, 2005

To: Lee Smith, Director of Water & Sewer, C/o Rhonda Wiggins

From: Norman Divers

RE: The Orchards at Flat Rock Water & Sewer System Extension

Lee:

Please find enclosed the required documents for the review of the water and sewer system extensions necessary to serve a new 212 unit residential community. The community development is phased such to have 124 units in phase 1 and the remaining 88 to be added as phase 2. Improvements for water and sewer are proposed to accommodate both phases at the onset. Estimated flows have been based upon each lot being developed with a new 3-bedroom home which provides an average daily demand of approximately 79,500 gallons.

The proposed project is an extension of the existing public water distribution system and sewer collection system owned and maintained by the City of Hendersonville. The existing water system is located along Upward Road. The project will include installing approximately 7668 LF of 8" PVC. Service taps shall be installed to each unit in gangs of 4-3/4" meters off a 1" tap as required by the City.

The sewer system extension includes a gravity line along Upward Road to South Orchard Road. A sewer pump station and force main will installed to convey wastewater from the site to the gravity sewer on Upward Road. The project includes installing approximately 2,464 LF of 8" gravity sanitary sewer, 5,980 LF of 6" PVC sewer force main and a sewer pump station.

We appreciate your expeditious review and look forward to working with you on this project. Should you have any questions please feel free to contact us.

Best regards,

Norman Divers

HENDERSON COUNTY REVIEW OF CITY SEWER LINE EXTENSIONS

Project Name:	Orchards	at Flat Rock, Offsite and Phase 1							
		8" SDR 35 – Gravity - 2464' length							
Size of Sewer Line: 6" C900 PVC – 5980' length Gary Tweed, County Engineer; Matt Card, Subdivision Administrator, Autumn Radcliff, Interim Proj									
County Staff Revie	wina Extension:	Manager and Planner	Addinii i Ka	John, Intoni	ii i Toject				
	3								
Has the project bee	en reviewed under	the County Subdivision Ordinance?	⊠ Yes	∐ No	N/A				
Date reviewed:	September :	20, 2005							
Action:	Approved w	oved with Conditions							
Conditions:	Non-standa	dard subdivision requirements, final plat conditions, approval of sewer and water, road name approval and							
Comments:	fire departn	nent requirements.							
Has the project bee	en reviewed under	the County Manufactured Park Ordinance?	☐ Yes	□ No	⊠ N/A				
Date reviewed:									
Action:									
Conditions:									
Comments:									
Has the project bee	en reviewed under	the County Zoning Ordinance (i.e. Special-Use or Conditional-Use Permit)?	☐ Yes	□ No	⊠ N/A				
Date reviewed:									
Action:									
Conditions:									
Comments:									
Is the project subject to any other County Land Use Ordinance?		☐ Yes	⊠ No	□ N/A					
If yes, explain:									
Does the project co	onform to the 2020	Henderson County Comprehensive Plan (CCP)?	⊠ Yes	□ No	□ N/A				
	in urban servi e public sewe	ice area of the County Comprehensive Plan. Sewer service to r system. County would have no jurisdiction with regard to san	be conne	cted to the	e City of				
		BOARD OF COMMISSIONERS APPROVAL							
	Approved	Date of Board Review:							
	Not Approve	0							
	, ,	Approval (See Comments)							

HENDERSON COUNTY REVIEW OF CITY WATER LINE EXTENSIONS

Project Name:	Orchards at Flat Rock – Offsite & Phase 1							
Size of Water Line	(Main & Distribution Pipe Size): 8" DIP CL 350 – 7668 LF							
	Rocky Hyder, Fire Marshal; Matt Card, Subdivision Administrator; Au	ıtumn Radclii	f, Interim Pr	roject				
County Staff Revie	wing Extension: Manager and Planner							
Has the project bee	en reviewed under the County Subdivision Ordinance?	⊠ Yes	□ No	□ N/A				
Date reviewed:	September 20, 2005							
Action:	Approved with Conditions							
Conditions:	Non-standard subdivision requirements, final plat conditions, approval of sewer and water, road name approval and							
Comments:	fire department requirements.							
Has the project bee	en reviewed under the County Manufactured Park Ordinance?	☐ Yes	□ No	⊠ N/A				
Date reviewed:								
Action:								
Conditions:								
Comments:								
Comments.								
Has the project bee	en reviewed under the County Zoning Ordinance (i.e. Special-Use or Conditional-Use Permit)?	☐ Yes	□ No	⊠ N/A				
Date reviewed:		103	110	MA				
Action:								
Conditions:								
Comments:								
Is the project subje	ect to any other County Land Use Ordinance?		\boxtimes					
,,.	,,,	Yes	No	N/A				
If yes, explain:								
		_	_					
Does the project co	onform with the 2020 Henderson County Comprehensive Plan (CCP)?	⊠ Yes	□ No	□ N/A				
		163	140	WA				
		5 7		 -				
Does the project ha	ave adequate hydrant location and spacing?	⊠ Yes	∐ No	L. N/A				
Description of hyd	rant type and thread: Mueller Centurion – National Standard Thread	,,,,						
	d flow rate (gpm) meet fire protection standards? The estimated flow rate meets standard for	- 	121					
, ,	of 31 feet or more. The 8 inch pipe has the capacity for greater flow once system improvements are	Yes	⊠ No	N/A				
made.								
1	DOADD OF COMMISSIONEDS ADDROVAL							
	BOARD OF COMMISSIONERS APPROVAL							
	Approved Date of Board Review: Not Approved Comments:							
	Not Approved							
	Conditional Approval (See Comments)							