

SUBDIVISION REPORT - CONCEPT

► FILE #: 8-SB-23-C	AGENDA ITEM #: 31
	AGENDA DATE: 8/10/2023
SUBDIVISION:	WOODCREEK RESERVE
APPLICANT/DEVELOPER:	PRIMOS LAND COMPANY LLC
OWNER(S):	Josh Sanderson Primos Land Company, LLC
TAX IDENTIFICATION:	148 107.06 148CH018 View map on KGIS
JURISDICTION:	County Commission District 9
STREET ADDRESS:	0 PEAR WOOD DR
LOCATION:	East end of Pear Wood Dr, east of Poplar Wood Trl
SECTOR PLAN:	South County
GROWTH POLICY PLAN:	Planned Growth Area
WATERSHED:	Stock Creek
APPROXIMATE ACREAGE:	11.69 acres
► ZONING:	PR (Planned Residential)
EXISTING LAND USE:	Agriculture/Forestry/Vacant Land
PROPOSED USE:	Detached residential subdivision
SURROUNDING LAND USE AND ZONING:	This is phase 2 of the Woodcreek Reserve subdivision, located off of Tipton Station Road in south Knox County. The subdivision is approximately 0.25 miles west of South-Doyle High School and approximately 0.5 miles east of Bonny Kate Elementary School.
NUMBER OF LOTS:	33
SURVEYOR/ENGINEER:	Wanis A. Rghebi, PE Southland Engineering Consultants, LLC
ACCESSIBILITY:	Access is via Pear Wood Drive and Poplar Wood Trail, local streets with 26 ft of pavement width within a 50-ft right-of-way; and Tipton Station Road, a major collect street with 20 ft of pavement width within a 68-ft right-of-way.
SUBDIVISION VARIANCES REQUIRED:	 VARIANCES 1. Reduce the minimum vertical curve on Pear Wood Dr from K=25 to K=17.54 at PVI STA 2+79.14 (see Concept Plan condition #5) 2. Reduce the minimum vertical curve on Pear Wood Dr from K=25 to K=20.11 at PVI STA 6+63.76 3. Reduce the minimum vertical curve on Road A from K=25 to K=23.38 at PVI STA 3+74.99 4. Reduce the minimum vertical curve on Road A from K=25 to K=20.53 at PVI STA 5+75.00
	ALTERNATIVE DESIGN STANDARDS REQUIRING KNOXVILLE-KNOX COUNTY PLANNING COMMISSION APPROVAL 1. Reduce the minimum horizontal curve radius on Road A from 100 ft to 75 ft at STA 5+26

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STAFF RECOMMENDATION:

Approve the requested variances, except as noted in Concept Plan condition #5, and alternative design standard based on the justification provided by the applicant and recommendations of the Knox County Department of Engineering and Public Works.

Approve the Concept Plan subject to 8 conditions.

1) Connection to sanitary sewer and meeting other relevant utility provider requirements.

2) Provision of street names consistent with the Uniform Street Naming and Addressing System within Knox County (County Ord. 91-1-102).

3) If any building construction is proposed within the 50' buffer area around the designated sinkholes/depressions (including the depressions), a geotechnical report must be prepared by a registered engineer to determine soil stability and that report must be submitted to the Knox County Department of Engineering and Public Works for consideration. Any construction in these areas is subject to approval by the County following review of the report. Engineered footings must be designed for these areas. For those lots that do not have a building site outside of the 50' buffer, approval by Knox County will be required prior to final plat approval. The sinkholes/depressions and 50' buffer shall be designated on the final plat even if they are approved to be filled.

4) Provide a sidewalk on the south side of Pear Wood Drive, from the intersection of Poplar Wood Trail to the transitional radius of the cul-de-sac (approximately the eastern boundary of lot 30).

5) Provide a minimum vertical curve on Pear Wood Drive of K=20 at PVI STA 2+79.14 (see variance #1)

6) Provide a 200 ft sight distance easement inside the Road A horizontal curve with a 75 ft radius.

7) Meeting all applicable requirements of the Knox County Department of Engineering and Public Works.

8) Meeting all applicable requirements of the Knox County Zoning Ordinance.

COMMENTS:

This proposal is Phase 2 of the Woodcreek Reserve Subdivision, originally approved in 2006 for 201 lots (4-SF-06-C / 4-I-06-UR). This request reduces the overall lot count by approximately 13. Access is provided via the eastern terminus of Pear Wood Drive. A sidewalk has been installed on one side of most streets. Staff is recommending a condition that a sidewalk be installed on the south side of Pear Wood Drive (condition #4).

VARIANCES AND ALTERNATIVES DESIGN STANDARDS

The applicant requests a reduction of the minimum vertical curve on Pear Wood Drive from K=25 to K=17.54. This is a crest vertical curve just east of the Poplar Wood Trail intersection. At a 25 mph design speed, which is the default for residential subdivisions, a minimum K=20 is required to maintain sight distance over the crest in the road. Staff is recommending approval of the K=20, but not the requested K=17.54. The other three vertical curve reductions are recommended for approval because they are over K=20.

The horizontal curve reduction on Road A from a radius of 100 ft to 75 ft is recommended for approval because it is near the end of the road where travel speeds will naturally be decreasing, and a sight distance easement is being provided through the inside of the curve.

ESTIMATED TRAFFIC IMPACT: 364 (average daily vehicle trips)

Average Daily Vehicle Trips are computed using national average trip rates reported in the latest edition of "Trip Generation," published by the Institute of Transportation Engineers. Average Daily Vehicle Trips represent the total number of trips that a particular land use can be expected to generate during a 24-hour day (Monday through Friday), with a "trip" counted each time a vehicle enters or exits a proposed development.

ESTIMATED STUDENT YIELD: 7 (public school children, grades K-12)

Schools affected by this proposal: Bonny Kate Elementary, South Doyle Middle, and South Doyle High.

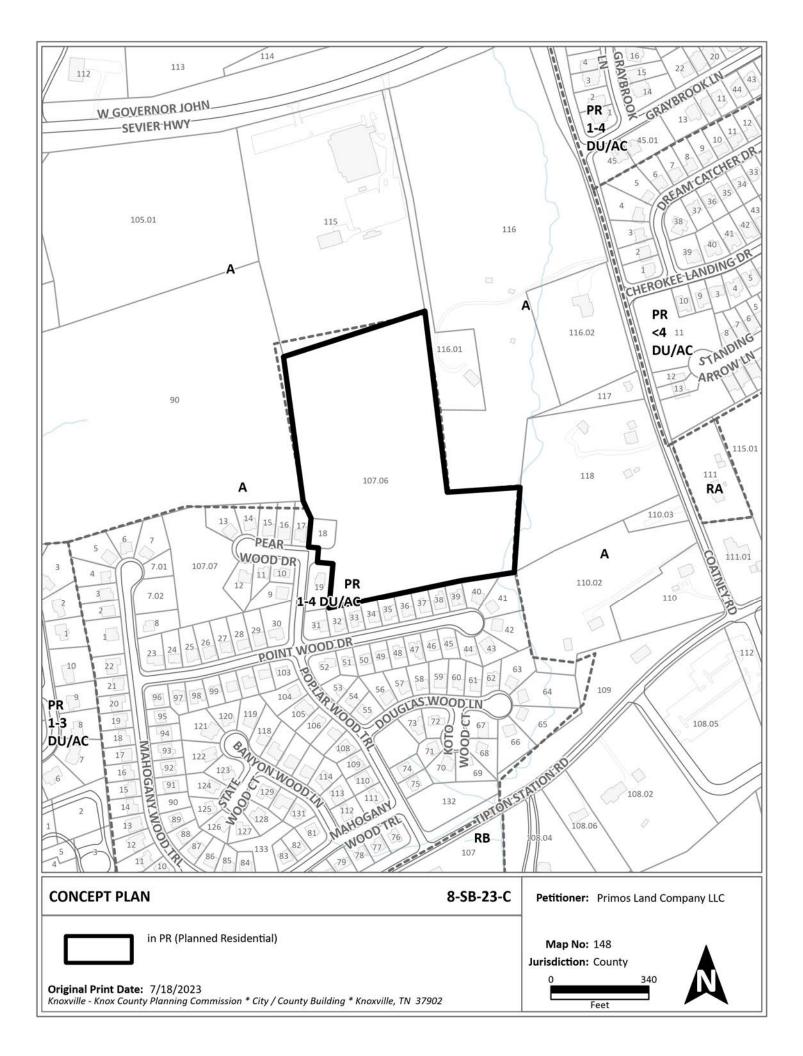
• Potential new school population is estimated using locally-derived data on public school student yield generated by new housing.

• Students are assigned to schools based on current attendance zones as determined by Knox County Schools. Students may request transfers to different zones, and zone boundaries are subject to change.

• Estimates presume full build-out of the proposed development. Build-out is subject to market forces, and timing varies widely from proposal to proposal.

• Student yields from new development do not reflect a net addition of children in schools. Additions occur incrementally over the build-out period. New students may replace current population that ages through the system or moves from the attendance zone.

Knoxville-Knox County Planning Commission's approval or denial of this request is final, unless the action is appealed to Knox County Chancery Court. The date of the Knox County Chancery Court appeal hearing will depend on when the appeal application is filed.



Requested Variances & Alternative Design Standards

8-SB-23-C – WOODCREEK RESERVE, PHASE II

VARIANCES

- 1. Reduce the minimum vertical curve on Pear Wood Dr from K=25 to K=17.54 at PVI STA 2+79.14
- 2. Reduce the minimum vertical curve on Pear Wood Dr from K=25 to K=20.11 at PVI STA 6+63.76
- 3. Reduce the minimum vertical curve on Road A from K=25 to K=23.38 at PVI STA 3+74.99
- 4. Reduce the minimum vertical curve on Road A from K=25 to K=20.53 at PVI STA 5+75.00

ALTERNATIVE DESIGN STANDARDS REQUIRING KNOXVILLE-KNOX COUNTY PLANNING COMMISSION APPROVAL

1. Reduce the minimum horizontal curve radius on Road A from 100 ft to 75 ft at STA 5+26 if a sight distance easement is provided on Lot 17.

ALTERNATIVE DESIGN STANDARDS REQUIRING KNOX COUNTY ENGINEERING AND PUBLIC WORKS APPROVAL

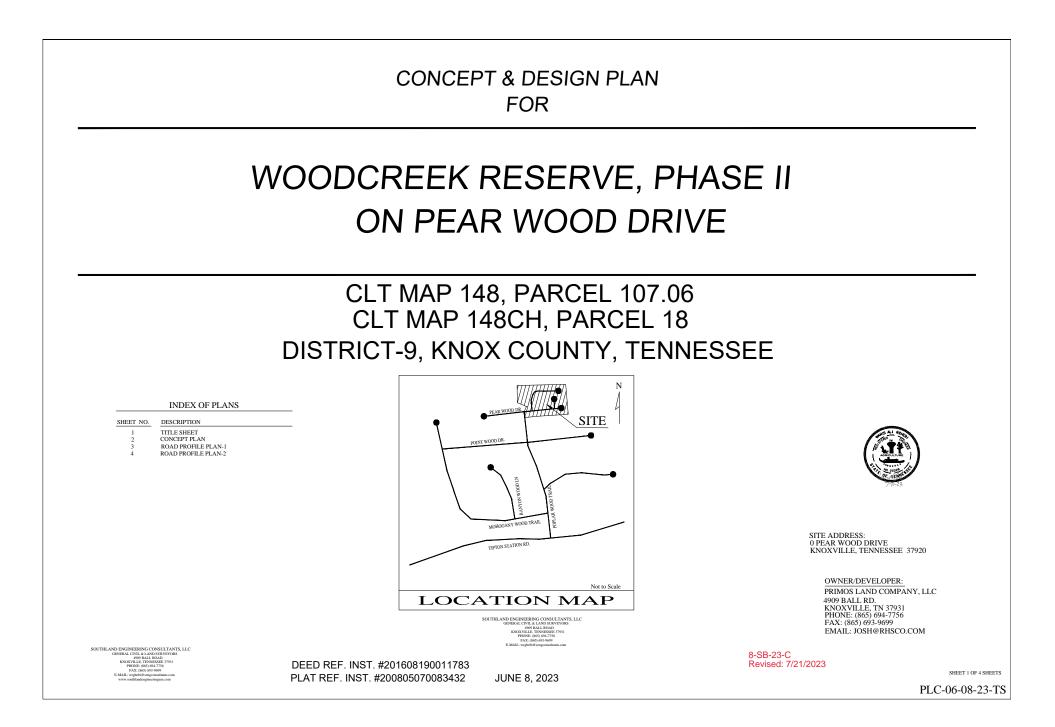
1. Increase the maximum intersection grade from 1 to 3 percent on Road at the Pear Wood Dr intersection

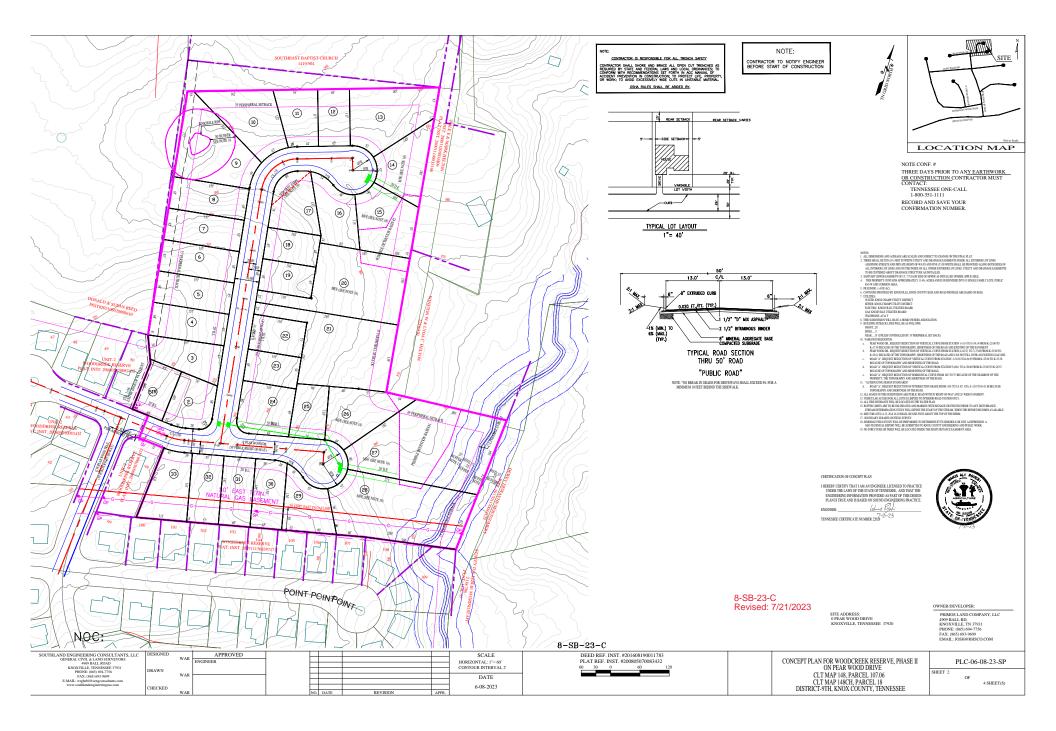
KNOX COUNTY ENGINEERING AND PUBLIC WORKS RECOMMENDATION:

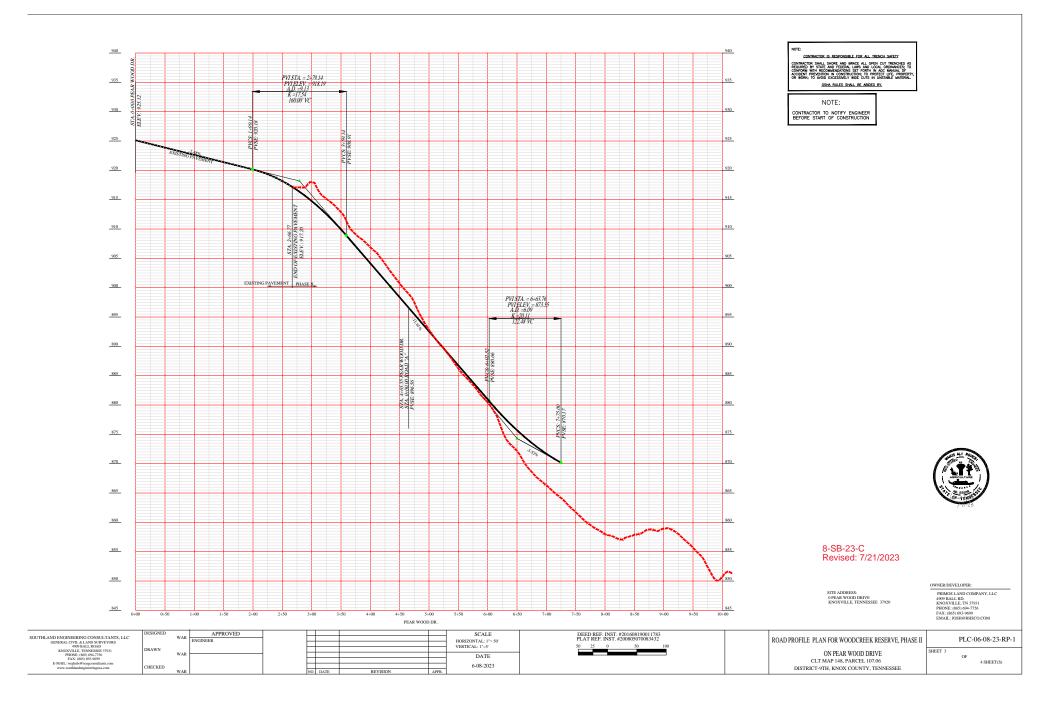
Deny variance request number 1. Knox Engineering would not accept a K value less than 20 in this location.

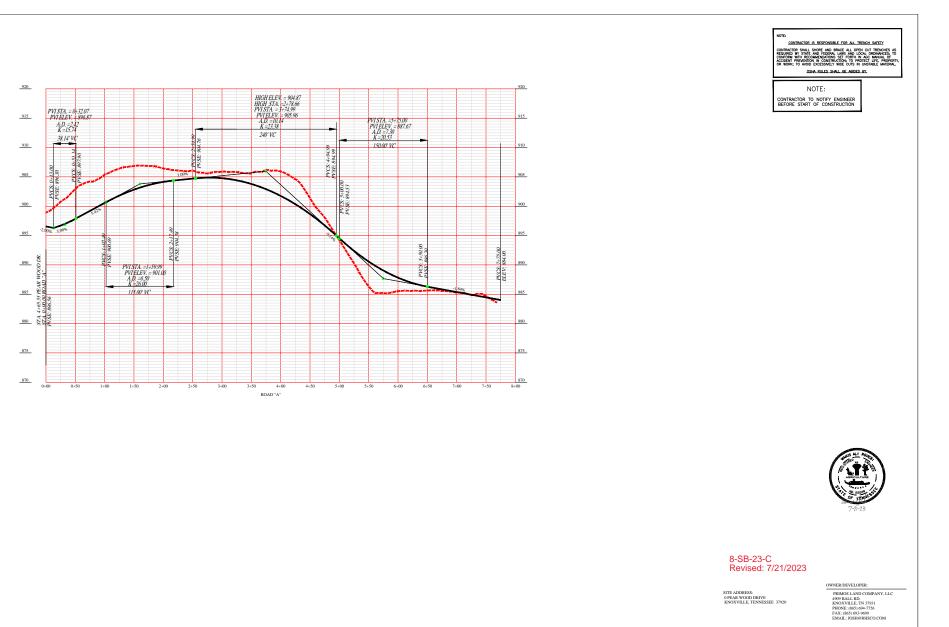
Approve all other requests since no unsafe conditions are created.

Steve Elliott 8/3/2023









SOUTHLAND ENGINEERING CONSULTANTS, LLC GENERAL CIVIL & LAND SURVEYORS	DESIGNED	WAR	APPROVED	-				SCALE HORIZONTAL: 1"= 50'	DEED REF. INST. #201608190011783 PLAT REF. INST. #200805070083432	ROAD PROFILE PLAN FOR WOODCREEK RESERVE, PHASE II	PLC-06-08-23-RP-2
4909 BALL ROAD KNOXVILLE, TENNESSEE 37931 PHONE: (865) 694-7756 FAX: (865) 693-9699	DRAWN	WAR		-				VERTICAL: 1"=5" DATE	50 25 0 50 100	ON PEAR WOOD DRIVE CLT MAP 148, PARCEL 107.06	SHEET 4 OF
E-MAIL: wrghebi@sengconsultants.com www.southlandengineeringusa.com	CHECKED	WAR			NO. DATE	REVISION	APPR.	6-08-2023		CLT MAP 148CH, PARCEL 18 DISTRICT-9TH, KNOX COUNTY, TENNESSEE	4 SHEET(S)

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KN	OXVILLE K	NOX COUN	Тү

Development Request

DEVELOPMENT

Development Plan

□ Planned Development

Use on Review / Special Use
 Hillside Protection COA

SUBDIVISION

✓ Concept Plan
□ Final Plat

ZONING

Plan Amendment
🗌 Sector Plan
🗌 One Year Plan
Rezoning

Primos Land Company LLC Applicant Name Affiliation 6/26/2023 8/10/2023 8-SB-23-C Date Filed Meeting Date (if applicable) File Number(s) CORRESPONDENCE All correspondence related to this application should be directed to the approved contact listed below. Wanis A. Rghebi, PE Southland Engineering Consultants, LLC Name / Company 4909 Ball Rd. Rd. Knoxville TN 37931 Address 865-694-7756 / wrghebi@sengconsultants.com Phone / Email **CURRENT PROPERTY INFO** Josh Sanderson Primos Land Company, L 4909 Ball Rd. Rd. Knoxville TN 37931 865-694-7756 Owner Name (if different) **Owner Address** Owner Phone / Email **0 PEAR WOOD DR Property Address** 148 107.06 148CH018 11.69 acres Parcel ID Part of Parcel (Y/N)? Tract Size **Knox-Chapman Utility District Knox-Chapman Utility District** Sewer Provider Water Provider Septic (Y/N) **STAFF USE ONLY** East end of Pear Wood Dr, east of Poplar Wood Trl **General Location** City **Commission District 9 PR (Planned Residential)** Agriculture/Forestry/Vacant Land ✓County District **Zoning District** Existing Land Use South County LDR (Low Density Residential) **Planned Growth Area**

Sector Plan Land Use Classification

Growth Policy Plan Designation

Planning Sector

,	loch Sanda	rson Primos Land Company, LLC	6/26/2023
Phone / Email			
Applicant Signature	Please Print	t	Date
		d Company LLC	6/26/2023
I declare under penalty of perju all associated materials are beir		e and correct: 1) He/she/it is the owner of the pr /her/its consent.	operty, AND 2) the application
AUTHORIZATION			
Use on Review / Special Use (Concept Plan)		
Traffic Impact Study			
Site Plan (Development Requ		Fee 3	
 COA Checklist (Hillside Protec Design Plan Certification (Fina 			
Property Owners / Option Ho	lders 🗌 Variano	ce Request Fee 2	
ATTACHMENTS		\$1,375.0	U
	ng Commission		
PLAT TYPE		Fee 1	Total
STAFF USE ONLY			
Additional Information			
Proposed Density (units/acre)	Previous Zoning Rec	quests	
	0(-)		
Plan Amendment Proposed F	Plan Designation(s)		
	0		
Zoning Change Proposed Zo	ning		
			Pending Plat File Num
ZONING REQUEST			
Attachments / Additional Req	uirements		
Additional Information			
Phase II Unit / Phase Number	Split Parcels	33 Total Number of Lots Created	
Woodcreek Reserve Proposed Subdivision Name			Related Rezoning File Nu
SUBDIVSION REQUEST			Palatad Pazaning File Nu
Other (specify)			
Home Occupation (specify)			
Hillside Protection COA		🗌 Residential 🗌 Non-residential	
	ned Development	Use on Review / Special Use	Related City Permit Num

Property Owner Signature

Please Print



Development Request

DEVELOPMENT

- Development Plan
- Planned Development
- Use on Review / Special Use
- Hillside Protection COA
- SUBDIVISION Concept Plan Final Plat

ZONING

Plan Amendment
 SP OYP
 Rezoning

Primos Land Company LLC / Josh Sanderson

Applicant Name			Affilia	tion
6/20/2023	8/10/2023			File Number(s)
Date Filed	Meeting Date (if applicabl	e)		
CORRESPONDENCE A	ll correspondence related to this app	lication should b	e directed to the a	oproved contact listed below.
🗌 Applicant 🔲 Owner 🔲 O	ption Holder 🛛 🔳 Project Surveyor	🗌 Engineer	Architect/Land	dscape Architect
Wanis A. Rghebi, PE		SEC, LLC		
Name		Company		
4909 Ball Road		Knoxville	TN	37931
Address		City	State	ZIP
865-694-7756	wrghebi@sengconsu	ltants.com		
Phone	Email			
CURRENT PROPERTY INFO		2 23		
Primos Land Company LLC	4909 Ball Roa	d, Knoxville, [•]	Tn 37931	865-694-7756
Owner Name (if different)	Owner Address			Owner Phone
0 Pear Wood Drive, Knoxville	e, TN 37920	148	Parcels 107.06	& 148CH Parcel 18
Property Address		Parcel	ID	
STAFF USE ONLY				
General Location			Tract S	ize
Jurisdiction (specify district above)	City County	Zoninį	g District	
Planning Sector	Sector Plan Land Use Class	ification	Growt	n Policy Plan Designation
vacant lots	Ν	KCUD	1	KCUD
Existing Land Use	Septic (Y/N)	Sewer Provi	der V	Vater Provider

DEV			1 St. 6 1 1
	-117/		

📕 Bevelopment Plan 🛛 🔳 Use on Review / Special Use	Hillside Protection COA	Related City Permit Number(s)
🗕 Residential 🗌 Non-Residential		
Home Occupation (specify)		
Other (specify)		

SUBDIVISION REQUEST

Woodcreek Reserve, Phase II Concept	Related Rezoning File Number
Proposed Subdivision Name	33
Unit / Phase Number To	otal Number of Lots Created

□ Other (specify) ______ Detached residential subdivision

□ Attachments / Additional Requirements

ZONING REQUEST

		Pending Plat File Number
Zoning Change	Proposed Zoning	
🗌 Plan Amendme	nt Change Proposed Plan Designation(s)	
	Proposed Plan Designation(s)	

Proposed Density (units/acre)	Previous Rezoning Requests
Other (specify)	

STAFF USE ONLY

Fee 1	Total
1	
[
Fee 2	
5 2	
Fee 3	
	Fee 2 Fee 3

AUTHORIZATION By signing below	βy signing below, I certify I am the property owner, applicant or the owners authorized representative.				
1 Dawa de hule	Wanis Ali Rghebi, PE	6-08-2023			
Applicant Signature	Please Print	Date			
865-694-7756	wrghebi@sengconsultants.com				
Phone Number	Email				
B	Josh Sanderson	06/26/2023			

Please Print

VARIANCES/ALTERNATIVE DESIGN STANDARDS REQUESTED



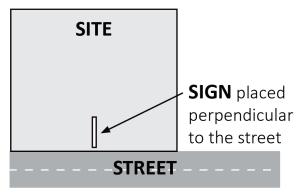
1. Pear Wood DRIVE, Request roduction in	Vertical Currue from Sta. 5.50
Justify request by indicating hardship: to 7 40 from	K-26.00 to K- 10 SI I - 100 OF
topography, shortness of the road & Exit	ting prvement.
2 Record "A" nequest mechanting of new	tral large from sty 1+0/14+0
2. Read A" request necluction of ver Justify request by indicating hardship: star 2/18.83	Can 16-750 th 16=21.4
pecause of topography a shortness oft	he ford,
3. Road A" vervest reduction of vertice Justify request by indicating hardship: Star 5+20.0	I Carne from Ata. 28 80,00 to
Justify request by indicating hardship: Sta. 5+70.0	from K=25.0 to 19.46
because of topography & shortness of the	road
4. Road "A" request reduction of vertice Justify request by indicating hardship: 10 sta, 6+42,4	I carrie fron sta. 5+20,00
Justify request by indicating hardship: -fb sta, 6+42,4	Prom 12250 to 1213.46
because of topography, shortness of the n	oad tand of the road
5. Row A" nequest vedertion of inte	ersection grade from 60 % to 3.0%
5. Row A" nequect vedention of inte Justify request by indicating hardship: A star O FB. to	sta. 0+51.88.
6	
Justify request by indicating hardship:	
¥	
7	
Justify request by indicating hardship:	
I certify that any and all requests needed to meet regulations are requested	
above, or are attached. I understand and agree that no additional variances	Signature
can be acted upon by the legislative body upon appeal and none will be requested.	Date
	Date



Sign Posting & Removal Requirement

Revised April 2021

The Administrative Rules and Procedures of the Knoxville-Knox County Planning Commission require a sign to be posted on the property for each application subject to consideration by the Planning Commission, including the following applications: rezoning, plan amendment, concept plan, use on review/special use, planned development, right-of-way closure, and name change.



The required public notice sign(s) will be provided by Planning to the applicant when an application is submitted. If an application is submitted electronically, Planning staff will post the required sign. If a replacement sign(s) is needed, the applicant is responsible for picking up the new sign(s) from Planning and will be charged \$10 for each replacement.

LOCATION AND VISIBILITY

The sign must be posted on the nearest adjacent/frontage street and in a location clearly visible to vehicles traveling in either direction. If the property has more than one street frontage, the sign should be placed along the street that carries more traffic. Planning staff may recommend a preferred location for the sign to be posted at the time of application.

TIMING

The sign(s) must be posted **not less than 12 days prior to the scheduled Planning Commission public hearing** and must remain in place until the day after the meeting. In the case of a postponement, the sign can either remain in place or be removed and reposted not less than 12 days prior to the next Planning Commission meeting. The applicant is responsible for removing the sign after the application has been acted upon by the Planning Commission.

The individual below is responsible for posting and removing the sign(s) provided consistent with the above guidelines and between the dates of:

July 28, 2023	and	August 11, 2023	
(applicant or staff to post sign)	(applicant to remove sign)		
Applicant Name: Primos Land Company			
Date: 6/26/2023		Sign posted by Staff	
File Number: 8-SB-23-C		Sign posted by Applicant	