

Marion County Subdivision Plat Review

Plat Title: River Gorge Ranch Phase 2 Final Plat

Surveyor: Jeff Elliott

Date of Review	Reviewed by	Planning Staff
August 24, 2023	Ashley Gates	Renea Wilson

SUMMARY			
Property Owner(s)	Thunder Air Inc		
Property Address	100 Aetna Mountain Rd	Located in Floodplain?	No
Parcel ID Number(s)	146 001.00	Water Source	Individual Well
No. of Subdivision Lots	42	Sewage Disposal Method	Individual Septic
Subdivided Acreage	85.83	Access over Easement?	No
Date of Previous S/D	N/A	Requires Utility Ext.?	Yes
Structures on Property?	No	Requires Road Const.?	Yes

ANALYSIS

Lot Dimensions and Size

- Minimum Width: 75 feet at the setback line. All lots appear to meet this requirement.
- Minimum Depth: All lots appear to meet this requirement.
- Depth to width ratio: Depth must not exceed 5 times the width. Lot 2237 does not appear to meet this requirement. The Planning Commission may approve these lots if they find there are "unusual circumstances that make these limitations impractical." Approval of this plat constitutes approval of Lot 2237 as submitted. A separate motion is not required.
- Lot sizes: All lots appear to meet the minimum of 25,000 square feet. Staff defers to TDEC and/or
 Marion County regarding size requirements for septic systems. Bedroom restrictions not listed on the
 plat. All approval should be contingent on obtaining the required signature and approval and listing of
 all bedroom restrictions.
- Road Frontage: All lots appear to meet the requirement for fifty (50) feet of road frontage.
- There does not appear to be any flag lots in this portion of the development.

Rights-of-Way and Road Construction

- Street Names: Appear to be High Ground Road, Moonlight Lane, Constellation Court, Firefly Street, and Stardust Court. Moonlight Lane is already in use within Jasper Highlands. Firefly Court is also in use in Jasper Highlands, which is similar to Firefly Street but not the same. Though they are different ZIP codes, staff recommends against repeating road names. Many who call 911 do not know which ZIP code they are currently in. The Planning Commission approves street names through plat approval, and may require changes.
- Right-of-Way width: Measurements were not provided, but based on spot checking by staff ROW appears to meet 50' minimum width for local streets and 50' radius requirement for cul-de-sacs.

- Pavement width: Road cross sections not provided to planning staff. Staff defers to Marion County Highway Superintendent.
- Cul-de-Sacs: All cul-de-sacs appear to be under the maximum of 3,000 feet.
- Temporary cul-de-sacs: No temporary cul-de-sacs are shown. Temporary cul-de-sacs are required at the end of any dead end streets.
- Horizontal Curves: Horizontal Curves must have a minimum centerline radius of 100 feet. No
 measurements are provided for centerline curves as required for final plats. Staff measurements
 indicate that all horizontal curves in this portion of Phase 2 exceed the minimum centerline radius.
- Tangents: Between reverse curves, a 100-foot tangent is required. The tangent between reverse curves on Moonlight Lane is not adequate.
- Vertical Curves: Vertical curves must provide a sight distance of 200 feet. Additional information for the vertical curve near Station 59 on High Ground Road is needed to ensure this requirement is met. All other vertical curves appear to meet this requirement based on the vertical profiles provided to staff.
- Road Construction process and requirements:
 Staff defers to the Marion County Highway Superintendent for all matters in Sections 518 through 527 of the Subdivision Regulations as they relate to a preliminary plat. No road cross sections were provided to planning staff for review.
- Mountain Roads (Section 533):

Whenever the grade exceeds 9%, a road is classified as a "Mountain Road" per the Marion County Subdivision Regulations. Within this portion of Phase 2, High Ground Road has a finished road grade exceeding 9%. Other roads within this portion of the subdivision may be considered a Mountain Road at the discretion of the Highway Superintendent.

The following is required by the Subdivision Regulations for mountain roads:

Stamped design drawings detailing the road layout, elevations, grades, materials, drainage systems, and other pertinent information shall be submitted during the preconstruction process in accordance with Section 519. Upon recommendation by the highway superintendent, the proposed designs shall be presented to the planning commission for approval. No road construction shall commence, and **no final plat shall be approved, until the final, engineered designs for the mountain road have been approved by the planning commission.** The approved road specifications (i.e. thickness of base and surface course), if different from the general standards for a public road, shall be included on the final plat.

Planning staff has not received the above required documents for review and defers to the Highway Superintendent regarding the review of these plans. Staff cannot recommend approval until these plans are presented to the Planning Commission.

• Street Signs and Traffic Control Signs (Section 534): Street signs and traffic control signs are required at all intersections. Information not provided to planning staff. Staff defers to the highway superintendent regarding this requirement.

Drainage, Utilities and Other Improvements

Drainage (Section 601)

"An adequate drainage system including necessary open ditches, pipes, culverts, intersectional drains, drop inlets, bridges, etc., shall be provided for the proper drainage of all surface water. All storm drainage contained in pipes or culverts under roadway shall have endwalls, headwalls or rip-rap with concrete apron wall where necessary to prevent erosion. Where open trench or swales are used, the grades exceeding eight percent (8%) up and two percent (2%) down shall be paced with 3,000 PSI cement concrete. Additional information may be required by the planning commission such as engineering and design documents."

Stormwater basins are shown on the final plat. No additional information regarding the drainage system is provided. Staff cannot assess compliance with this section of the Subdivision Regulations. Several roads exceed the grade limits listed requiring 3,000 PSI cement concrete.

Design drawings are required to be submitted to the Marion County Highway Superintendent prior to construction. The Planning Commission may request engineering and design documents to ensure an adequate drainage system is provided before final plat approval.

- Water Supply System: Lots are said to be served by individual well, though road plans indicate that water is to be installed at some point in the future. Six inch mains are required.
- Fire Hydrants: Fire hydrants are to be spaced a maximum of 1,000 feet apart whenever water lines are extended to the subdivision. No hydrant locations are shown on plat.
- Sewage Disposal: Lots are to be served by individual septic systems, requiring review by TDEC or Marion County. TDEC is said to have reviewed these lots, but bedroom restrictions are not yet listed on the plat.

Performance Guarantee

Staff defers to the County Attorney and Highway Superintendent for all matters related to performance guarantees.

Final Plat Requirements

Requirement	Y/N	Notes
Name of subdivision.	Υ	
Name and address of the owner of record, subdivider, and surveyor.	Y	

Tax map and parcel number of property to be subdivided.	Υ	
North point, graphic or bar scale,	Υ	
and the date that the plat was	-	
drawn.		
Location map with north point	N	Location map shows entirety of Phase 2, does not show
showing site in relation to		this portion.
surrounding area.		
Names of all adjoining streets,	Υ	
property owners, and subdivisions.		
Exact boundary lines by bearings	Υ	
and distances.		
Lines of all streets, roads, and	N	Edge of ROW shown, but centerlines and edge of
alleys.		pavement are not shown.
Sufficient data to determine	N	Centerlines not shown, and centerline measurements
readily and reproduce on the		are not provided.
ground the location, bearing and		
length of every street line, lot line,		
boundary line, block line, and		
building line, whether curved or		
straight. This shall include the		
radius, central angle, and tangent		
distance for the centerline of		
curved streets and curved		
property lines that are not the		
boundary of a curved street.		
All dimensions to the nearest one-	N	Not provided for road centerlines
hundredth (100th) of a foot, and		
angles to the nearest minute.		
Location, dimensions, and	N	There are no drainage easements shown or listed in the
purposes of any easements and		notes.
any areas to be reserved or		
dedicated for public use.		
Lot numbers, which shall be in	Υ	
consecutive numerical order.	.,	
Building setback lines	Υ	
Present zoning classification	N/A	Not and all all and a second s
Contours shown at vertical	N/A	Not needed unless requested by Planning Commission.
intervals of not more than five (5)		
feet, if required by the planning		
commission.		
Flood Insurance Rate Map (FIRM)	Υ	
panel numbers reflecting the land		
being subdivided. If any portion		
of the property being subdivided		
is subject to flood, the limits of		

any floodway or 100-year (1.0% annual chance) floodplain.		
Deed book reference by volume and page number	Y	
A statement, either directly on the plat or in an identified attached document, of any private covenants or deed restrictions.	N	If subdivision has covenants and restrictions, add book and page number where recorded.
For mountain road: Approved road specification	N	Thickness of base and surface course should be provided if different from the general standards for a public road
For variances: All variances should be noted on final plat	N	Variances are not listed

RECOMMENDED CHANGES

- Differentiate between the lots that are intended to be platted and those that are not. Having them listed in the title is not adequate. Several lots are shown that are not listed in the plat title. Staff has not reviewed lots other than those listed in the title.
- List book and page number for any restrictive covenants that have been recorded.
- List all requested variances
- Select a different street name for Moonlight Lane
- Show temporary cul-de-sacs at dead end of High Ground Road
- Adjust Moonlight Lane to meet the required minimum tangent between reverse curves
- · Show road centerline with all required measurements
- Drainage easements should be listed or shown on plat
- Provide planning staff or Marion County Highway Superintendent with drainage plans so that compliance with Section 601 of the Subdivision Regulations can be reviewed.
- Provide road specifications on plat for High Ground Road (mountain road) and any other roads identified as "mountain roads" by the Marion County Highway Superintendent if it will differ from general standards for a public road.
- Stamped engineered plans for High Ground Road and any other roads identified as "mountain roads" by the Marion County Highway Superintendent should be submitted to the Marion County Highway Superintendent. Printed copies should be presented to the Planning Commission for their review. These plans must be voted on and approved prior to voting on the final plat.

RE	REQUIRED CERTIFICATES Based on Section 904 of the Subdivision Regulations			
Χ	A. Certificate of Ownership &	Χ	J. Certification of Private Road Status	
	Dedication			Lot Line
Χ	B. Certificate of Registered Surveyor		K. Certification of Access Easement	Abandonment
Χ	C. Planning Comm. Approval for		L. Certification of Natural Gas Service	plats only
	Recording			require
Χ	D. Certificate of Approval by E-911		M. Certification of Water Service	Certificates A, B,
	E. Certification of Electrical Service		N. Certification of Water System	and C.
			Extension	Add Certificate F if combining
	F. Planning Staff Approval of Minor		O. Certification of Public Sewer	only 2 lots.
	Plat		Service	0111y 2 10ts.
	G. Certification of Access		P. Certification of Existing Septic	
			System	
X	H. Street & Drainage System	Χ	Q. Certification of SSD (Septic) System	
	Construction			
	I. Street & Drainage System			
	Maintenance			

VARIANCES Granted in accordance with Section 111 of the Subdivision Regulations

No variances have been requested by the developer or surveyor. No variances are listed on the plat.

Sī	TAFF RECOMMENDATION	
	Approve as staff-approved plat.	All
	Recommendation for approval by planning commission.	recommendatio
Χ	Recommendation for approval by planning commission with conditions	ns are "subject
	(listed below).	to" making any
	Staff is unable to recommend approval of plat as currently submitted	required
	(explanation below).	changes and
		receiving all
		signatures.

Notes or Conditions:

Conditions for recommendation of approval:

- All signatures are obtained
- All corrections are made
- Review and approval of the road and drainage design by Marion County Highway Superintendent
- Review and approval of stamped engineered plans for all mountain roads by the Planning Commission prior to voting on the final plat

This recommendation is subject to change if information contrary to this analysis is presented between now and the time of final plat approval.

It is the surveyor or owner's responsibility to obtain all necessary signatures except for those of the Planning Commission Secretary and Planning Commission Staff. The plat is not a legal document until all signatures are obtained and the plat is recorded at the Marion County Register of Deeds Office. For more information on Planning Commission procedures, see https://marioncountytn.net/planning-building

Notes:

- 1. Area Subdivided 85.83 Acres.
- 2. This Plat Re subdivides The Property Found In Deed Book 549, Page 331, R.O.M.C.
- 3. Tax Map 146 Parcel 01.00 And Parcel 01.01.
- 4. Sanitary Sewer Provided Private Sub sewage Disposal System.
- 5. Iron Pins Set At All Corners Unless Otherwise Noted.
- 6. Water By Individual Wells. 7. Zoned: None.
- 8. This Subdivision Has Been Developed In Accordance With The Design Standards
- Of The Subdivision Regulation Of Marion County, Tennessee. 9. All Lots Have A 15' Power And Communication Easement Along Public R.O.W.
- 10. Building Setbacks: Front 40' Side 15'
 - Rear 15'
- 11. Subject Property Does Not Appear To Be In The Flood Hazard Zone As Per FEMA Map Panel 47115C0250D & 47115C0275C.
- 12. Owners: Thunder Air Inc.
 - 210 Battle Creek Road Kimball, TN 37347 Phone: 423~424~1085

Elliott Surveying 4610 Main Street Jasper, TN 37347 Phone: (423) 403~7860

Mobile: (423) 637~1009 Email: JElliott@Elliottlandsurveying.com

River Gorge Ranch Subdivision Phase Two Lots 2001~ 2034,2229~2238

A Mountain Top Community

CERTIFICATION OF PRIVATE ROAD STATUS

TO THE GOVERNMENT OF MARION COUNTY. ALL MAINTENANCE

AND SERVICE IS THE RESPONSIBILITY OF THE PRIVATE ROAD

ACCESSED BY A PRIVATE ROAD THAT HAS NOT BEEN DEDICATED

DATE

I CERTIFY THAT THE LOT(S) SHOWN ON THIS PLAT ARE

Certificate of Approval of Subsurface Sewage Disposal System

"Approval is Hereby Granted For Lot______ River Corge Ranch Subdivision Phase 2 Marion County, Tennessee As Being Suitable For Subsurface Sewage Disposal (SSD) With The Listed Or Attached Restrictions

Prior To Any Construction Of A Structure, Mobile Or Permanent, The Plans For The Exact House/Structure Location Must Be Approved And

An SSD System Permit Issued By The Division Of Water Resources. Water Taps, Water Lines, Underground Utilities And Driveways Should Be Located At Side Property Lines Unless Otherwise Noted. Any Cutting, Filling Or Alterations Of The Soil Conditions May Void This Approval."

Environmental Specialist Division Of Growndwater Protection

____Are Approved For A Standard Individual Subsurface Sewage Disposal System Serving A Maximum

CERTIFICATION BY PLANNING COMMISSION OF APPROVAL FOR RECORDING

I HERBY CERTIFY THAT THE SUBDIVISION PLAT SHOWN HEREON HAS BEEN FOUND TO COMPLY WITH THE SUBDIVISION REGULATIONS OF MARION COUNTY, TENNESSEE, WITH THE EXCEPTION OF SUCH VARIANCES, IF ANY, AS MAY BE NOTED ON THIS PLAT; THAT ALL REQUIRED IMPROVEMENTS HAVE EITHER BEEN COMPLETED OR ARE COVERED BY AN APPROVED PERFORMANCE GUARANTEE LARGE ENOUGH TO COMPLETE THE REQIRED IMPROVEMENTS IN THE EVENT OF DEFAULT BY THE DEVELOPER; AND THAT TIS PLAT HAS BEEN APPROVED FOR RECORDING IN THE OFFICE OF

Vesting Period Reference No. 2023-01

THE COUNTY REGISTER.

PLANNING COMMISSION SECRETARY DATE

CERTIFICATE OF OWNERSHIP AND **DEDICATION**

I (WE) HEREBY CERTIFY THAT I AM (WE ARE) THE OWNER(S) OF THE PROPERTY SHOWN AND DESCRIBED HEREON AND THAT I (WE) HEREBY ADOPT THIS PLAN OF SUBDIVISION WITH MY (OUR) FREE CONSENT, ESTABLISH THE MINIMUM BUILDING SETBACK LINES, AND HEREBY FOREVER DEDICATE TO THE PUBLIC USE ALL THE STREETS AS SHOWN ON THIS PLAT.

Guild

Nickajack

Lake

CERTIFICATE OF E-911 APPROVAL

I HEREBY CERTIFY THAT I HAVE REVIEWED THIS PLAT AND FIND THAT IT CONFORMS_TO THE COUNTY'S E-911 REQUIREMENTS, INCLUDING APPROPRIATE ROAD NAMES / NUMBERS.

MARION COUNTY E-911 REPRESENTATIVE DATE

CERTIFICATE FOR ELECTRICITY THIS PLAT SHOWS ADEQUATE EASEMENTS FOR POWER LINES. ELECTRIC POWER IS AVAILABLE TO ALL LOTS SHOWN ON THIS PLAT BASED ON EPB'S LINE

ELECTRIC POWER OFFICE DATE

THE EVENT OF DEFAULT BY THE DEVELOPER.

Not To Scale

EXTENSION POLICIES.

Certification of Street and Drainage System Construction

I HEREBY CERTIFY THAT THE STREETS AND DRAINAGE FACILITIES SHOWN ON THIS PLAT HAVE BEEN DESIGNED AND WILL BE CONSTRUCTED IN AN ACCEPTABLE MANNER IN ACCORDANCE WITH THE REQUIRED SPECIFICATIONS OF MARION COUNTY, AND THAT AN ADEQUATE PERFORMANCE __ (150% OF THE TOTAL VALUE OF ALL ROAD GUARANTEE IN THE AMOUNT OF \$___ AND DRAINAGE IMPROVEMENTS INSTALLED) HAS BEEN POSTED TO ENSURE ROAD COMPLETION IN

Marion County Highway Superintendent

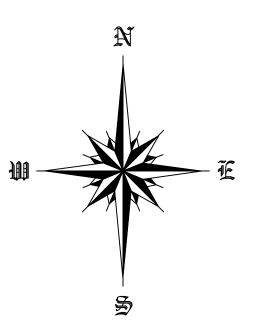
"STORMWATER POND LOCATIONS AND GEOMETRY ARE SUBJECT TO CHANGE.

River Gorge Ranch Subdivision Phase Two Lots 2001~ 2055

A Mountain Top Community Hicks Mountain

River Gorge Ranch Subdivision Phase Two A Mountain Top Community

Cover Sheet



Plat North: Tennessee State Plane (1983)

LEGEND

These standard symbols will

be found in the drawing.

Adjacent Property Lines

1/2" Rebar & Cap New IR (O) 1/2" Rebar Old Abandon Lot Line

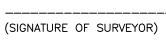


Survey Notes

- 1. This survey was performed without the benefit of a title report and is subject to any state of facts that an up to date title report might reveal.
- 2. This survey is not transferable to additional institutions or owners and is invalid without an original seal and signature.
- 3. No interior improvements were located other than those shown above.
- This survey was done by or under the direct supervision of the surveyor signing and sealing
- thereon.
 This survey was based upon his analysis of the deeds of record with evidence found existing on the ground and located, render the professional opinion of the surveyor as to the location of the boundaries and conditions being represented.
 Monuments either found or placed as depicted existed as described on the date of the survey
- shown thereon. 7. Subject to any easements that may exist on the underground electric lines.

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY_THAT THIS IS A CATEGORY 1 SURVEY AND THAT THE RATIO OF PRECISION OF THE UNADJUSTED SURVEY IS GREATER THAN 1:10,000 AS SHOWN HEREON. THIS SURVEY





River Gorge Ranch Phase 2 Final Plat Lots 2001-2034,2229-2238

Deed Book 549, Page 331 (R.O.M.C.) Tax Map 146 Parcel 1.00

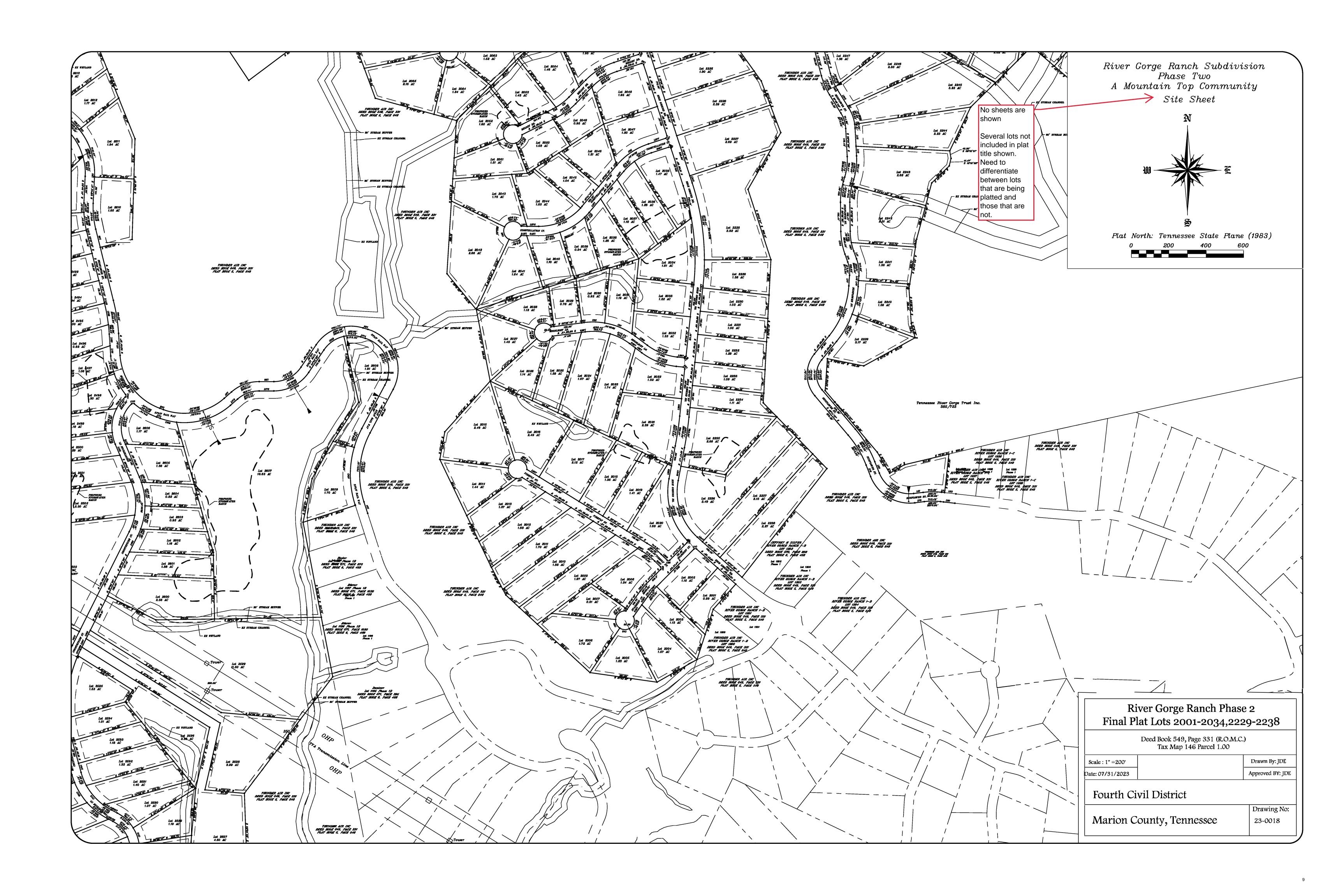
Drawn By: JDE Scale: 1'' = 100'Approved BY: JDE Date: 07/31/2023

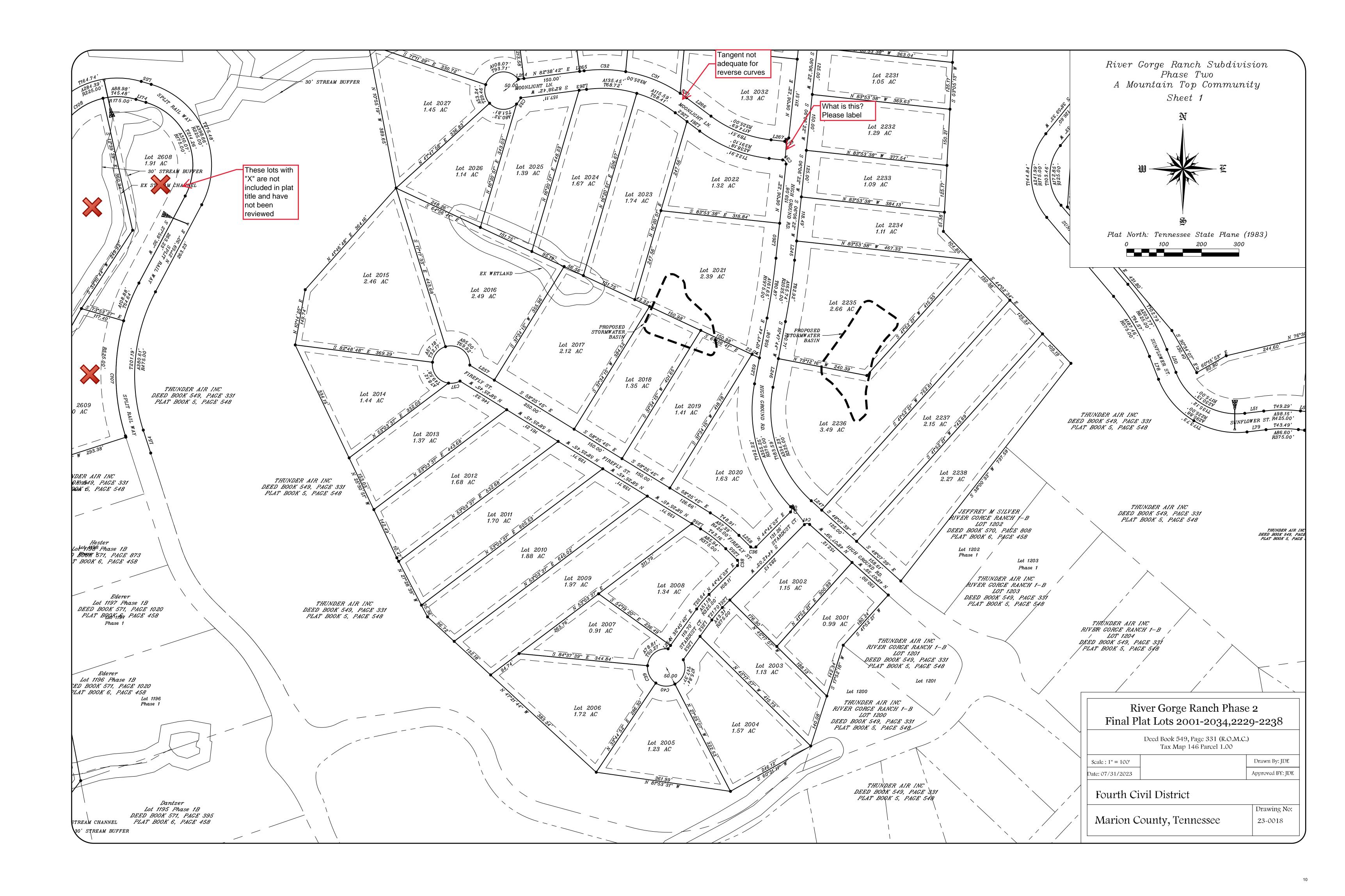
Fourth Civil District

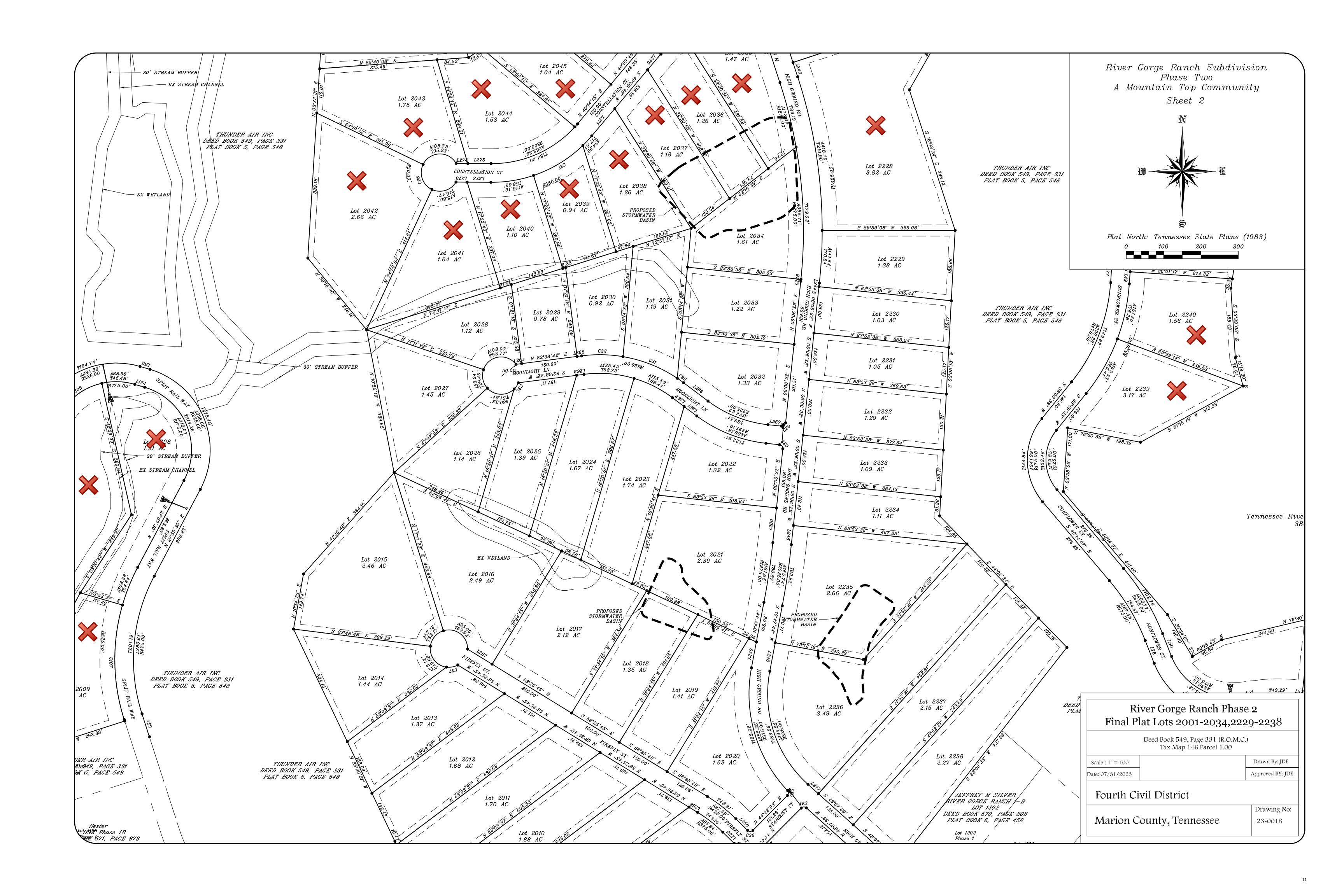
Marion County, Tennessee

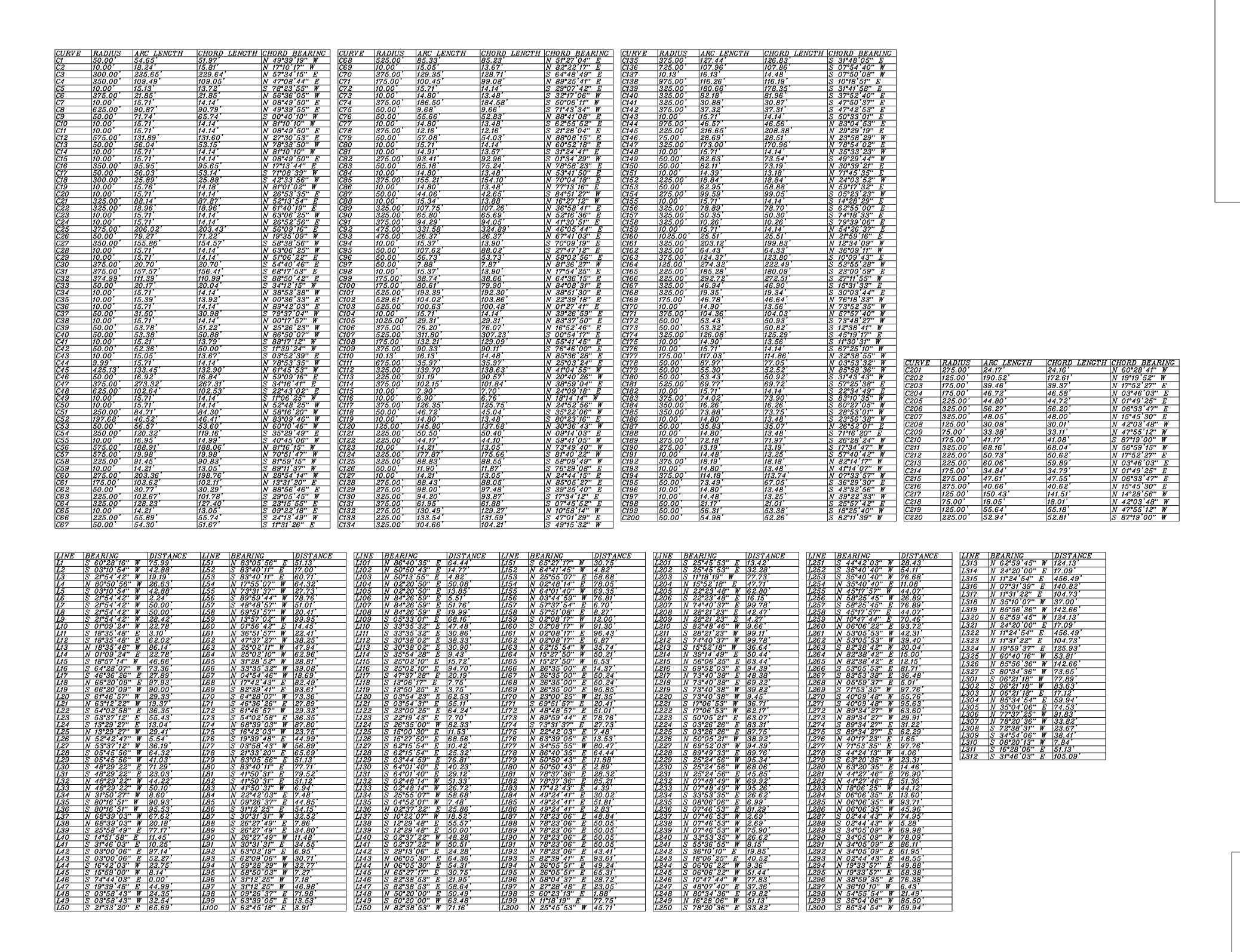
23~0018

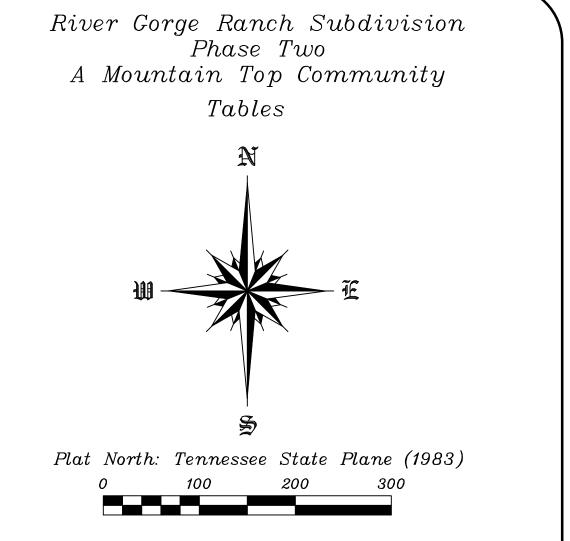
Drawing No:











River Gorge Ranch Phase 2
Lots 2001-2050

Deed Book 549, Page 331 (R.O.M.C.)
Tax Map 146 Parcel 1.00

Scale: 1" = 100'
Date: 07/31/2023

Curve & Line Tables
Approved BY: JDE

Fourth Civil District

Marion County, Tennessee

Drawing No: 23-0018-1

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