

SUBDIVISION REPORT -CONCEPT/USE ON REVIEW

| ► FILE #: 4-SA-22-C | | AGENDA ITEM #: | 3 |
|-------------------------------------|--|---|-------------|
| 4-C-22-UR | | AGENDA DATE: | 4/14/202 |
| | CATATOGA, PHASE 3 | | |
| APPLICANT/DEVELOPER: | URBAN ENGINEERING, INC. | | |
| OWNER(S): | HMH Development, Inc. | | |
| TAX IDENTIFICATION: | 130 A A 00212 | <u>View m</u> | ap on KGI |
| JURISDICTION: | County Commission District 6 | | |
| STREET ADDRESS: | 0 Long Farm Way | | |
| LOCATION: | Northern terminus of Long Farm Way, nor | th of Yarnell Road | |
| SECTOR PLAN: | Northwest County | | |
| GROWTH POLICY PLAN: | Rural Area | | |
| WATERSHED: | Conner Creek | | |
| APPROXIMATE ACREAGE: | 17.79 acres | | |
| ZONING: | PR (Planned Residential) | | |
| EXISTING LAND USE: | Vacant land | | |
| PROPOSED USE: | Detached residential subdivision | | |
| SURROUNDING LAND USE AND ZONING: | The area consists primarily of agricultural and uses in the A and PR zones. | d rural to low density | residential |
| NUMBER OF LOTS: | 35 | | |
| SURVEYOR/ENGINEER: | Chris Sharp, P.E. / Urban Engineering, Inc. | | |
| ACCESSIBILITY: | Access is via N. Campbell Station Road, a m width of 19.5 feet within a right-of-way width o access will be via Leatherback Drive, as prop Subdivision concept plan approval, 12-SC-21 | of 70 feet. [Additional losed in the Vining N | l future |
| SUBDIVISION VARIANCES REQUIRED: | VARIANCE: 1. Reduce the minimum tangent for broke 94.8 ft on Road 'E' between STA 1+40.98 a | | n 150 ft to |
| | ALTERNATIVE DESIGN STANDARDS REG COMMISSION APPROVAL: 1. Reduce the minimum horizontal curve Road 'D' between STA 2+77.83 and 3+53.0 2. Reduce the minimum horizontal curve Road 'D' between STA 5+16.81 and 5+92.0 | radius from 250 ft t 4 radius from 250 ft t | o 150 ft or |
| | ALTERNATIVE DESIGN STANDARDS APP ENGINEERING AND PUBLIC WORKS: | | COUNTY |
| | | | |

STAFF RECOMMENDATION:

APPROVE variance 1 and alternative design standards 1-2 on the recommendations of the Knox County Department of Engineering and Public Works and because the site conditions restrict compliance with the Subdivision Regulations and the proposed variances will not create a traffic hazard.

APPROVE the Concept Plan subject to 9 conditions.

1. Connection to sanitary sewer and meeting any 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. Meeting the conditions of the Concept Plan for Catatoga, Phase 1 & 2 (4-SA-21-C).

4. Providing a 200-FT sight distance easement on the final plat for Lot 139, as shown on the Concept Plan. 5. Providing a note on the final plat that all structures are to be located outside of the 50-ft buffer (building setback) for sinkholes/closed contours unless a geotechnical study prepared by a registered engineer states that building within the 50-ft sinkhole/closed contour buffer (building setback) is acceptable and the study is approved by the Knox County Department of Engineering and Public Works. The geotechnical study must be reviewed and approved by Knox County Department of Engineering and Public Works prior to approval of a plat for any proposed lots that do not have adequate building area outside of the 50-ft buffer (building setback) area. Building construction is not permitted within the sinkhole/closed contour area or any required drainage

easement for the sinkhole/closed contour area.

6. Meeting all applicable requirements of the Knox County Zoning Ordinance.

Meeting all applicable requirements of the Knox County Department of Engineering and Public Works.
 Submitting to Planning staff prior to final plat review by the Planning Commission or Planning staff, the certification of design plan approval form as required by the Knoxville-Knox County Subdivision Regulations.

 Prior to certification of the final plat for the subdivision, establishing a property owners association that will be responsible for the maintenance of the common areas, recreational amenities, and drainage system.

APPROVE the development plan for up to 35 detached dwelling units on individual lots for Phase 3 of the Catatoga Subdivision and reduction of the peripheral setback for Lots 146 and 147 from 35 ft to 15 ft, subject to 1 condition.

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

With the conditions noted, this plan meets the requirements for approval in the PR district and the criteria for approval of a use on review.

COMMENTS:

This proposal is for Phase 3 of this Catatoga Subdivision with 35 lots on 17.79 acres at a density of 1.92 du/ac. The property was rezoned from A (Agricultural) to PR (Planned Residential) up to 2 du/ac in June 2021 (5-I-21-RZ). Phase 1 & 2 of the Catatoga Subdivision was approved for 120 lots in May 2021 (5-SB-21-C / 5-D-21-UR). If Phase 3 is approved as requested, the subdivision can have up to 155 lots.

The May 2021 concept plan included a transportation impact study (TIS) that allocated 35 additional lots on this parcel as Phase 3 (155 total lots). The TIS recommended installing a southbound right-turn lane and a northbound left-turn lane at the N. Campbell Station Road access. These improvements are required to be installed by this development.

In December 2021, a revised concept plan was approved for the Vining Mill Subdivision to the west to provide a road stub out to the subject site. This proposal will complete the road connection and provide both subdivisions access to the two different classified roads, Hardin Valley Road and N. Campbell Station Road (12-SC-21-C / 12-F-21-UR). A transportation impact letter (TIL) was provided with the Vining Mill concept plan that studied these two intersections and verified that the improvements required at both intersections are adequate for the new travel pattern that results from connecting the two subdivisions.

Staff recommends approval of the peripheral setback reduction on Lots 146 and 147 because this setback will appear to be a side yard setback when Road 'D' extends into the adjacent Vining Mill subdivision. The same

| AGENDA ITEM #: 34 | FILE #: 4-SA-22-C | 4/5/2022 01:27 PM | MIKE REYNOLDS | PAGE #: | 34-2 |
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peripheral setback reduction was approved for the adjacent lots in Vining Mill. This will allow for a more seamless design where these two neighborhoods connect.

DEVELOPMENT STANDARDS FOR USES PERMITTED ON REVIEW (ARTICLE 4.10 – SECTION 2)

The planning commission, in the exercise of its administrative judgment, shall be guided by adopted plans and policies, including the general plan and the following general standards:

1) THE PROPOSED USE IS CONSISTENT WITH THE ADOPTED PLANS AND POLICIES, INCLUDING THE GENERAL PLAN AND SECTOR PLAN.

A. The Northwest County Sector Plan recommends RR (Rural Residential) and HP (Hillside Protection) for the site. The RR land use allows consideration of up to 2 du/ac, and under certain circumstances, up to 3 du/ac.
B. The property is in the Rural area on the Knoxville-Knox County-Farragut Growth Policy Plan map which allows consideration of up to 2 du/ac, and under certain circumstances, up to 3 du/ac.

C. The proposed density of 1.97 du/ac for Phase 3 is in conformance with the sector and growth policy plans. D. The entire 17.1-acre property is within the Hillside Protection (HP) area. The maximum recommended land disturbance is 12.7 acres, 74.4 percent of the HP area. The proposed disturbance is 13.6 acres. The majority of the undisturbed area is on the south side of the parcel, where there are two large sinkholes.

2) THE USE IS IN HARMONY WITH THE GENERAL PURPOSE AND INTENT OF THE ZONING ORDINANCE.

A. The PR (Planned Residential) zone is intended to provide optional methods of land development which encourage more imaginative solutions to environmental design problems. Residential areas thus established would be characterized by a unified building and site development program, open space for recreation and provision for commercial, religious, educational, and cultural facilities which are integrated with the total project by unified architectural and open space treatment. Each planned unit development shall be compatible with the surrounding or adjacent zones. Such compatibility shall be determined by the planning commission by review of the development plans.

B. The property is zoned PR up to 2 du/ac and the proposed density is 1.97 du/ac.

C. The proposed lot layout clusters the house lots away from the sinkholes.

3) THE USE IS COMPATIBLE WITH THE CHARACTER OF THE NEIGHBORHOOD WHERE IT IS PROPOSED, AND WITH THE SIZE AND LOCATION OF BUILDINGS IN THE VICINITY.

A. The proposed detached residential lots are consistent with Phase 1 & 2 of the Catatoga subdivision and the Vining Mill subdivision to the west and north.

B. The large common area on the south side of the parcel provides a buffer to the rural residential uses to the south.

4) THE USE WILL NOT SIGNIFICANTLY INJURE THE VALUE OF ADJACENT PROPERTY. A. The proposed detached residential subdivision is compatible with the surrounding detached residential uses and will not significantly impact the value of the adjacent property.

5) THE USE WILL NOT DRAW ADDITIONAL TRAFFIC THROUGH RESIDENTIAL AREAS. A. The previously reviewed and approved TIL for the Vining Mill subdivision studied the potential for cut-thru traffic if the Vining Mill and Catatoga subdivisions are connected internally. The TIL determined that there would be no advantage for vehicles to use the subdivision streets rather than the external road system.

6) THE NATURE OF DEVELOPMENT IN THE SURROUNDING AREA IS NOT SUCH AS TO POSE A POTENTIAL HAZARD TO THE PROPOSED USE OR TO CREATE AN UNDESIRABLE ENVIRONMENT FOR THE PROPOSED USE.

A. There are no known uses in the area that could be a potential hazard or create an undesirable environment for the proposed use.

ESTIMATED TRAFFIC IMPACT: 396 (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: 14 (public school children, grades K-12)

| AGENDA ITEM #: 34 | FILE #: 4-SA-22-C | 4/5/2022 01:27 PM | MIKE REYNOLDS | PAGE #: | 34-3 |
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| | | | | | |

Schools affected by this proposal: Hardin Valley Elementary, Hardin Valley Middle, and Hardin Valley Academy.

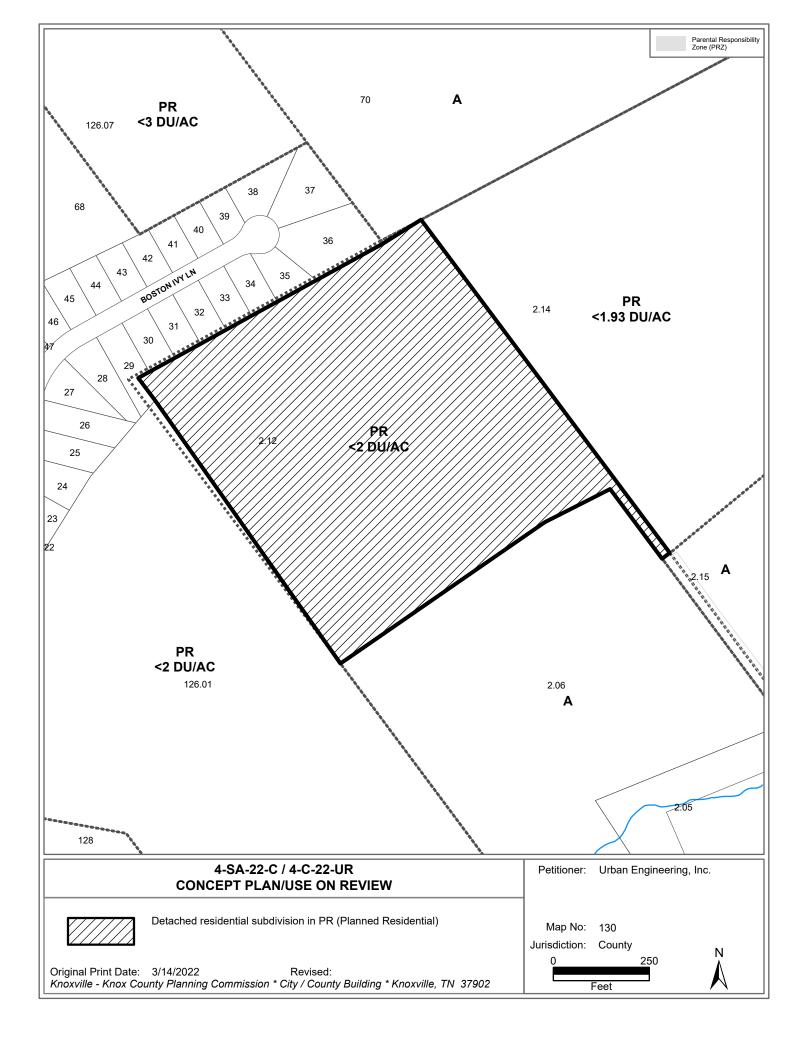
• Potential new school population is estimated using locally-derived data on public school student yield generated by new housing.

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.

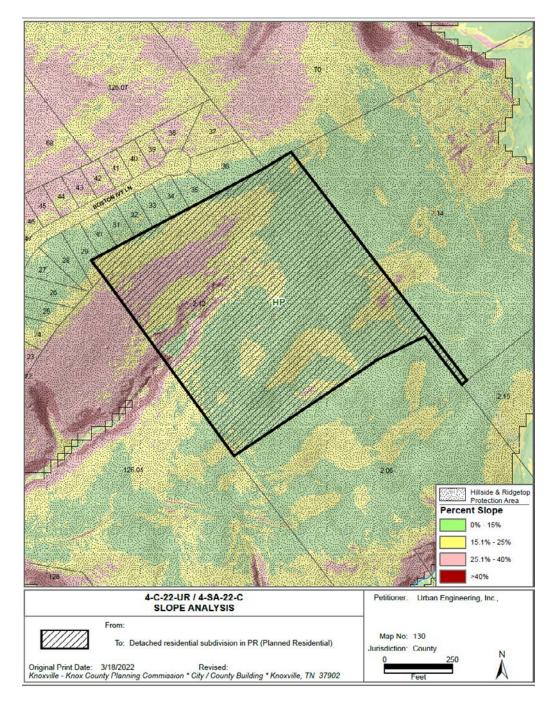
Knoxville-Knox County Planning Commission's approval or denial of this concept plan request is final, unless the action is appealed to Knox County Chancery Court. The date of the Knox County Chancery Court hearing will depend on when the appeal application is filed.

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



Staff - Slope Analysis Case: 4-SA-22-C / 4-C-22-UR

| CATEGORY | ACRES | RECOMMENDED DISTURBANCE BUDGET (Percent) | DISTURBANCE AREA (Acres) |
|-------------------------------|-------|---|--------------------------------|
| Total Area of Site | 17.10 | | |
| Non-Hillside | 0 | N/A | |
| 0-15% Slope | 9.52 | 100% | 9.5 |
| 15-25% Slope | 5.62 | 50% | 2.8 |
| 25-40% Slope | 1.88 | 20% | 0.4 |
| Greater than 40% Slope | 0.08 | 10% | 0.0 |
| Ridgetops | 0 | | |
| Hillside Protection (HP) Area | 17.10 | Recommended disturbance budget within HP Area (acres) | 12.7 |
| | | Percent of HP Area | 74.4% |



Requested Variances & Alternative Design Standards

4-SA-22-C / 4-C-22-UR – CATATOGA, PHASE 3

VARIANCES

1. Reduce the minimum tangent for broken back curves from 150 ft to 94.8 ft on Road 'E' between STA 1+40.98 and 2+35.78.

ALTERNATIVE DESIGN STANDARDS REQUIRING KNOXVILLE-KNOX COUNTY PLANNING COMMISSION APPROVAL

- 1. Reduce the minimum horizontal curve radius from 250 ft to 150 ft on Road 'D' between STA 2+77.83 and 3+53.04
- 2. Reduce the minimum horizontal curve radius from 250 ft to 150 ft on Road 'D' between STA 5+16.81 and 5+92.02

ALTERNATIVE DESIGN STANDARDS REQUIRING KNOX COUNTY ENGINEERING AND PUBLIC WORKS APPROVAL

- 1. Increase the maximum intersection grade from 1 percent to 2.97 percent at the intersection of Road 'D' at Road 'B'
- 2. Increase the maximum intersection grade from 1 percent to 3 percent at the intersection of Road 'E' at Road 'D'

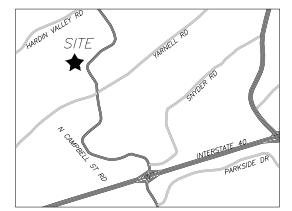
KNOX COUNTY ENGINEERING AND PUBLIC WORKS RECOMMENDATION:

Approve as requested

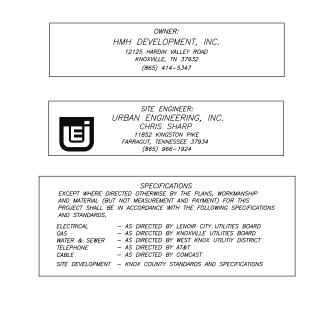


CATATOGA - PHASE 3

SITE ADDRESS: O LONG FARM WAY, KNOXVILLE, TENNESSEE 37932 TAX PARCEL: 130AA00212



LOCATION MAP

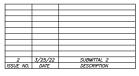


MPC FILE# 4-SA-22-C / 4-C-22-UR

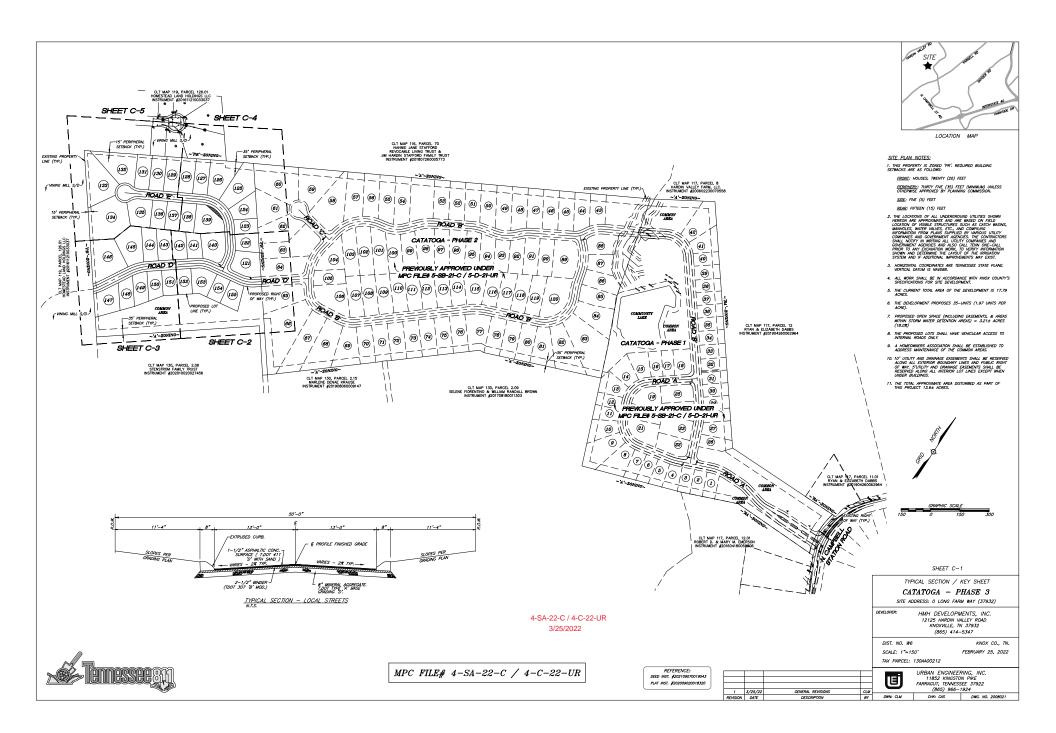
SHEET INDEX

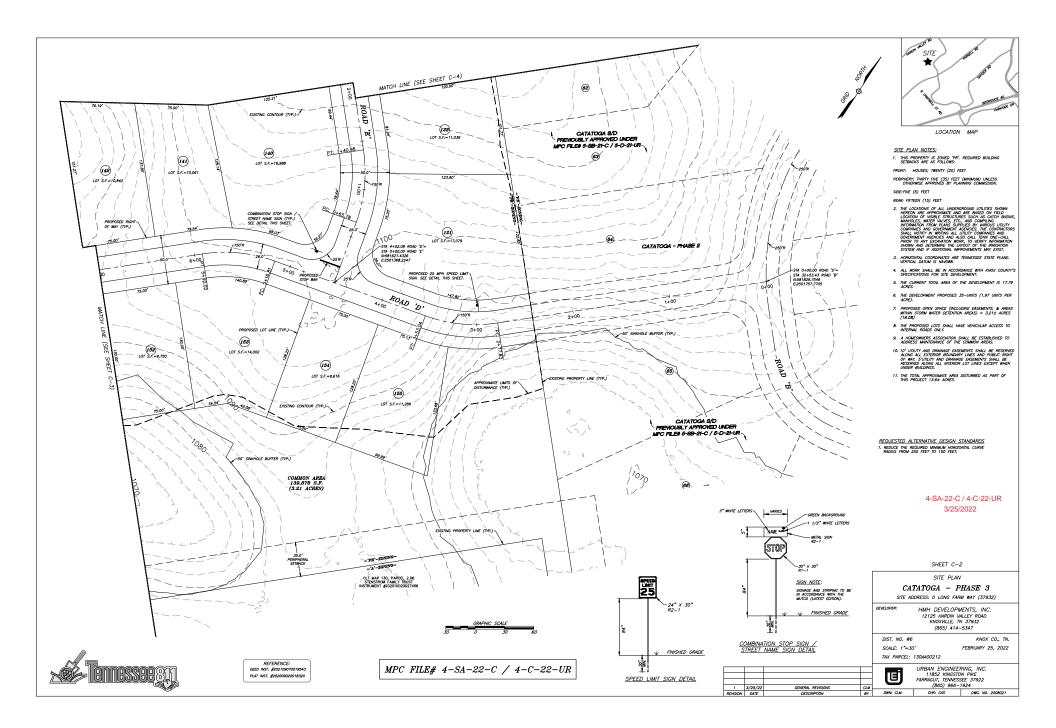
| TITLE | <u></u> |
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| TITLE SHEET | C-0 |
| TYPICAL SECTION / KEY SHEET | C-1 |
| SITE PLAN | C-2 THRU C-5 |
| ROADWAY PROFILES | C−6 & C−7 |

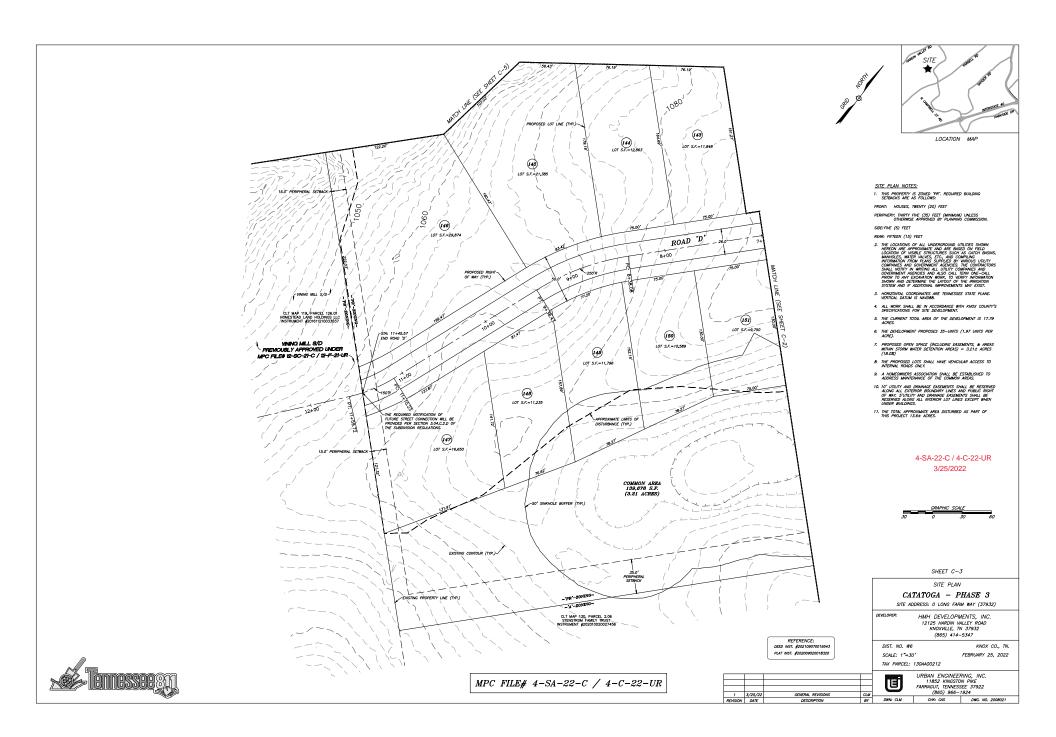
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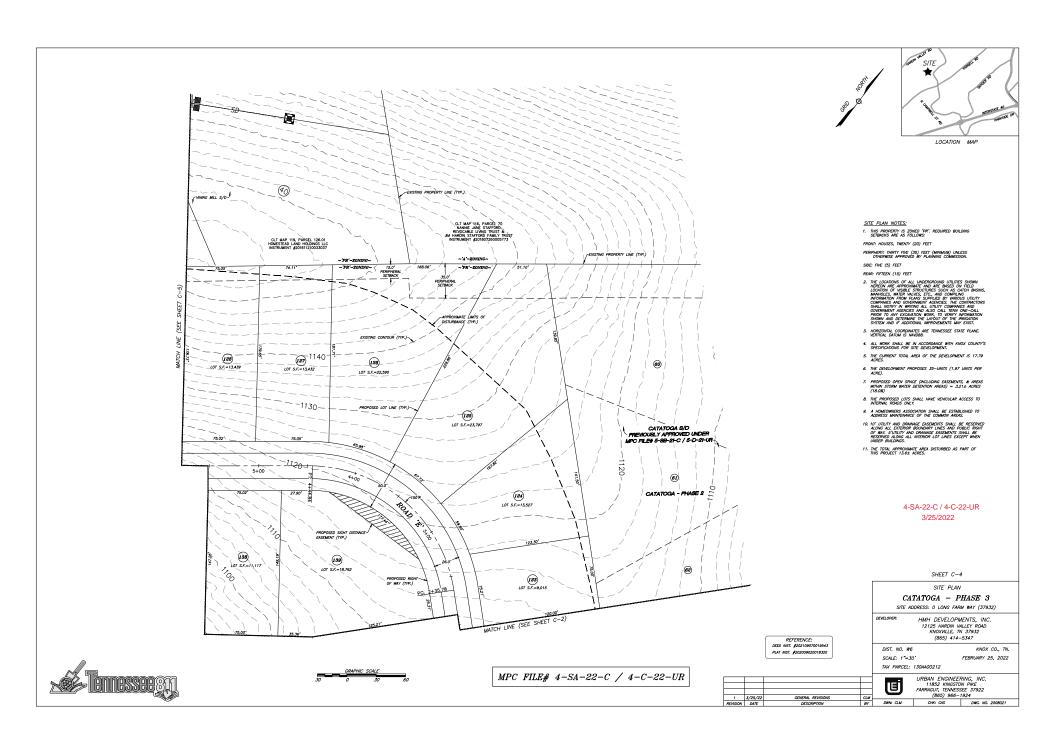


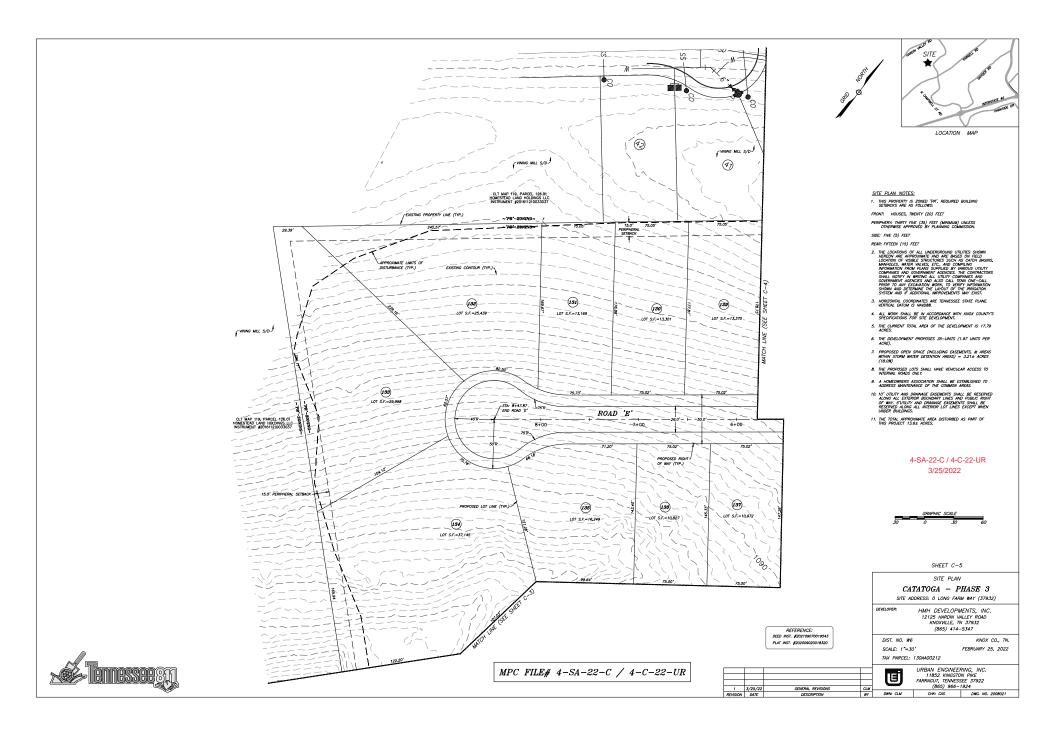
SHEET C-0 - 1 OF 8

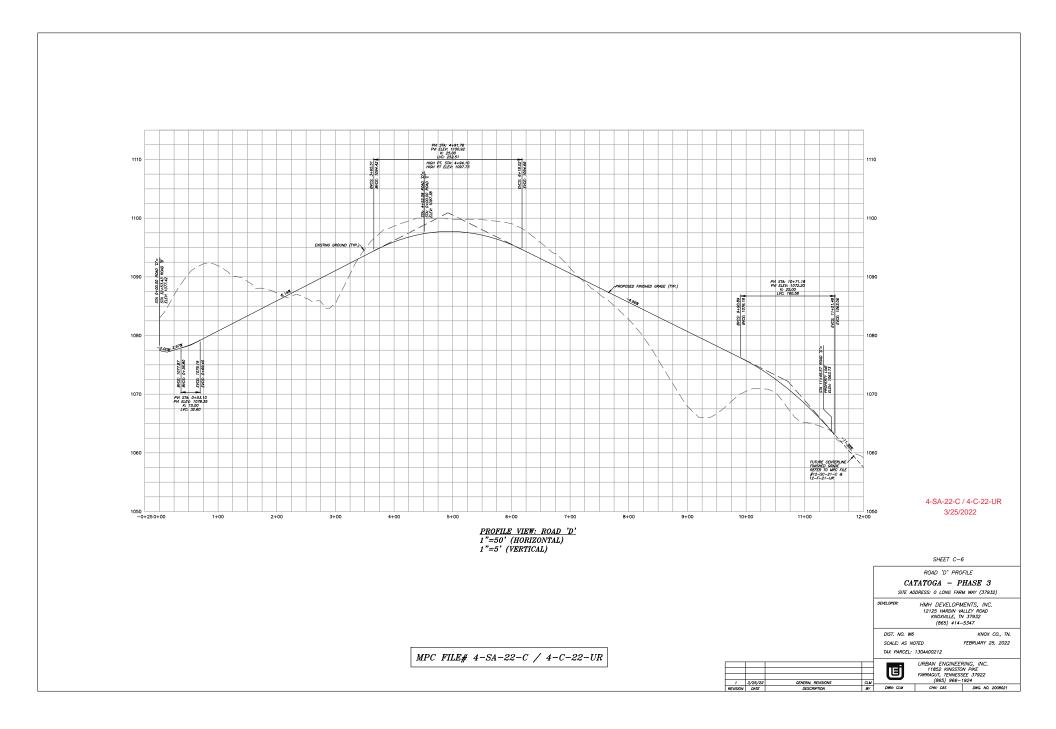


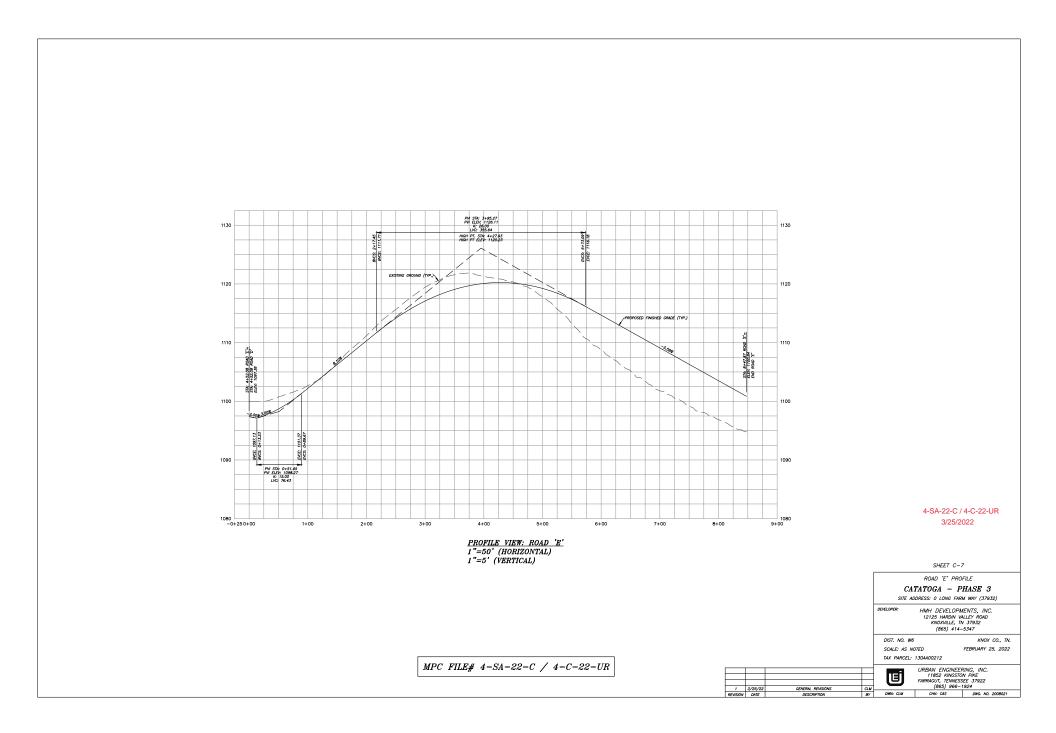












| Planning KNOXVILLE I KNOX COUNTY | DEVELOPMENT Development Plan Planned Development Use on Review / Special Use Hillside Protection COA | SUBDIVISION Concept Plan Final Plat | ZONING Plan Amendment SP OYP Rezoning |
|-------------------------------------|--|---|--|
| Urban Engineering, Inc. | | Engin | eer |
| Applicant Name | | Affiliati | on |
| 2/21/22 2/25/2022 | 4/14/22 | | File Number(s) |
| Date Filed | Meeting Date (if applicable) | 4-SA-2 4-C-22 | |
| | correspondence related to this application sl | hould be directed to the ap | pproved contact listed below. |
| 📕 Applicant 🛛 Property Owner | Option Holder Project Surveyor | 📕 Engineer 🔲 Arch | itect/Landscape Architect |
| Chris Sharp | Urbar | n Engineering, Inc. | |
| Name | Compa | ny | |
| 11852 Kingston Pike | Knoxy | ville TN | 37934 |
| Address | City | State | ZIP |
| (865) 966-1924 | chris@urban-eng.com | | |
| Phone | Email | | |
| CURRENT PROPERTY INFO | | | |
| HMH Development, Inc. | 10255 Kingston Pike | , Knoxville, TN 37922 | (865) 693-3232 |
| Property Owner Name (if different) | Property Owner Address | | Property Owner Phone |
| <u>O Buttermilk Read</u> | g Farm Way | 130AA00212 | |
| Property Address | | Parcel ID | |
| WKUD | WKUD | | No |
| Sewer Provider | Water Provider | | Septic (Y/N |
| STAFF USE ONLY | | | |
| Northern terminus of Long | g Farm Way, north of Yarnell Rd | 17.79 | 9 acres |
| General Location | | Tract S | Size |
| □ City 🔀 County 6th District | PR (Planned Residential) Zoning District | Vacant land Existing Land Use | |
| Northwest County | Rural Residential | Rur | al area |
| | | 1.010 | |

| DEVELOPMENT REQUEST | | | | |
|---|---|---------------------------|-------------|---------------------|
| Development Plan X Use on Rev Residential Non-Reside | N K Sima | otection COA | Related Ci | ty Permit Number(s) |
| Home Occupation (specify) | | | 1.000 | |
| Concept Plan | Detached residential subdiv | vision | | |
| Other (specify) | | | | |
| SUBDIVISION REQUEST | | | | |
| | | | Related Re | ezoning File Number |
| Catatoga | | | | |
| Proposed Subdivision Name | 3 | 5 | | |
| Unit / Phase Number | Parcels 🛛 🖾 Divide Parcel —— | al Number of Lots Created | | |
| Detached ro | esidential subdivision | | | |
| | | | | |
| Attachments / Additional Requireme | ents | | | |
| ZONING REQUEST | | | | |
| Loning hegolon | | | Pending | g Plat File Number |
| Zoning Change | | | | |
| Proposed Zoning | | | | |
| Plan Amendment Change Propose | ed Plan Designation(s) | | | |
| | | | | |
| Proposed Density (units/acre) | Previous Rezoning Request | ts | | |
| Other (specify) | | | | |
| STAFF USE ONLY | | | | |
| PLAT TYPE | | Fee 1 | / | Total |
| Staff Review Planning Comn | nission | Ť | | rotor. |
| ATTACHMENTS | | 0406 | | |
| Property Owners / Option Holders | Variance Request | Fee 2 | | \$3,079 |
| ADDITIONAL REQUIREMENTS | | | | |
| Design Plan Certification (Final Plat) | | Fee 3 | | |
| Use on Review / Special Use (Conce) Traffic Impact Study | ot Plan) | | | |
| COA Checklist (Hillside Protection) | | | | |
| | | | | |
| AUTHORIZATION | | | | |
| Chris Sharp | y Chris Sharp 3 14:28:02 -05'00' Urban Enginee | ring. Inc. | 2/18 | 3/22 |
| Applicant Signature | Please Print | | Date | , |
| (865) 966-1924 | chris@urban-e | ng com | | |
| Phone Number | Email | -Broom | | |
| 11 | | <u> </u> | 2/44 | 2/22 |
| Property Owner Signature | Hunter Harriso | n | 2/18 | 5/22 |
| | Please Print | | Date 4/2 | 5/2022 |
| MR 2/25/22 | | | SWI | |



NAMES OF ALL PROPERTY OWNERS INVOLVED OR HOLDERS OF OPTION ON SAME MUST BE LISTED BELOW:

Please print or type in black ink:

| NAME | ADDRESS | CITY | STATE | ZIP | OWNER / OPTION |
|--|--|---|--|--|--|
| HUNTER | 10255 Kinles | TEN KNOXVILLE | Ta | 37022 | ~ |
| HARAISON | 10255 Kinles PK. | | | | |
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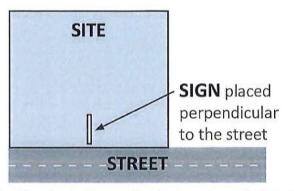
If more space is needed, attach additional sheets.



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-ofway 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:

15,2022 and (applicant to remove sign)

| Applicant Name: | |
|----------------------------------|--------------------------|
| Date: 2/25/2022 | Sign posted by Staff |
| File Number: 4-5A-22-C+4-C-22-UR | Sign posted by Applicant |

Knoxville-Knox County Planning | KnoxPlanning.org 400 Main Street, Suite 403 | Knoxville, TN 37902 | 865.215.2500