

September 26, 2024

Ms. Brianna Valcourt Senior Planner Cranston Planning Commission 869 Park Avenue Cranston, Rhode Island 02910

RE: Orchard Meadows - Subdivision 1489 Pippin Orchard Road, Cranston, Rhode Island Project #: 2953-001

Dear Ms. Valcourt,

On behalf of the applicant, we are submitting a combined Master/Preliminary Plan Submission to the Planning Commission for a proposed single family residential subdivision called Orchard Meadows on Pippin Orchard Road, north of Laten Knight Road in Cranston, Rhode Island. The site is located at 1489 Pippin Orchard Road, Assessor's Plat 28 Lots 31 and 45 and is Zoned A80 (Single Family 80,000 sf).

The proposed residential subdivision includes the following lots:

- 4 Proposed Residential Lots with Proposed Single-Family Homes
- 1 Proposed Residential Lot with an Existing Single-Family Home to remain
- 1 Proposed Public Open Space Lot to be left in existing condition for passive recreation.

# **Existing Conditions**

The project site is currently a mix of residential and farming with a majority of the site cleared. The existing uses for each parcel are as follows: AP 28 Lot 31- Farm-Forest and includes an existing single-family home and barn, AP 28 Lot 45 - Residential Land Development and exists as mostly cleared with small sections of woods along the western and southern boundaries.

# Topography

The site slopes downward from southwest to northeast with elevations at the southwest about 340' and with elevations at the northeast about 327'.

#### Wetlands

There are areas of wetlands on the site. One is along the northern boundary of Lot 31. A second is located along the eastern boundary of the electrical easement that crosses the site north to south. A third wetland is located in the far southwest corner on the western side of said electrical easement. There is also a small, isolated wetland located on the eastern side of Lot 45. The wetlands were delineated and flagged by Avizinis Environmental Services Inc. on 4/27/2022.

#### Floodplain

There is no 100-year floodplain on the majority of the property which is within Zone X (areas determined to be outside the 500-year floodplain). There is a small area of Zone A (areas of 100-year base flood elevations and flood hazard factors not determined) and Zone AE along the northern

boundary of Lot 31 per FEMA Flood Insurance Rate Map44007C0294H, Map Revised October 2, 2015. All proposed disturbance is located within Zone X.

## **RIDEM Natural Heritage Area**

A small area of the southern portion of the site is located within the Natural Heritage Area as defined by RIDEM. We have received correspondence from RIDEM stating this area's concern is the Long or Northern Beech-fern. This correspondence with RIDEM has been included within the submission package.

## <u>Soils</u>

Per Natural Resources Conservation Service's "Soil Survey of Rhode Island", the underlying soils in the vicinity of the proposed development are:

EfA\*ENFIELD SILT LOAM, 0 TO 3 PERCENT SLOPESRfRIDGEBURY, WHITMAN, AND LEICESTER EXTREMELY STONY FINE SANDY LOAMSRuRUMNEY FINE SANDY LOAMWhA\*WOODBRIDGE FINE SANDY LOAM, 0 TO 3 PERCENT SLOPESWhB\*WOODBRIDGE FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES

NOTE: \*PRIME FARMLAND

## Historic/Archeological Significance

The project was submitted to RIHPHC for review who recommended an archaeological survey be conducted prior to any ground disturbance to determine if Native American artifacts are still present on the property. (RIHPHC letter included with the submission package)

A Phase I Archaeology Survey has since been completed by Public Archaeology Laboratory (PAL) within the proposed disturbance area on site. The testing was conducted August 28- September 1, 2023 under RIHPHC Archaeological Permit No. 23-11 issued on August 16, 2023. Based upon the completion of their study, PAL recommends all of the archaeological materials recovered from the development area are not eligible for listing in the National Register and no additional archaeological investigations will be necessary. (PAL Phase I Archaeology Survey included with the submission package)

# Proposed Development Overview

The Orchard Meadows residential subdivision proposes 5 single-family residential lots with no roadway creation. The 5 proposed residential lots will include the following: 1 proposed lot with an existing home to remain and 4 additional proposed lots which propose new single family residential homes. In addition to the 5 residential lots, the development proposes approximately 12 acres of public open space (Lot 6) with access through a proposed easement from Pippin Orchard Road (along the southern property line of proposed Lots 1 and 4). New homes are proposed on Lots 1-4, each with frontage on Pippin Orchard Road. Lot 5 includes an existing home with an existing On-Site Wastewater Treatment System (OWTS) and existing well, which will both continue to service the home. Additionally, Lot 5 will remain accessed by the existing access drive within the existing right of way easement it currently utilizes. No improvements to the existing asphalt access drive within the right of way easement are proposed as part of this application. The proposed disturbance for the development will only include Lots 1-4 as shown by the Limit of Disturbance shown on the submission site plans, and there is no proposed

disturbance within the proposed open space area (Lot 6), Lot 5, and lot 5's existing right of way easement.

- <u>Previous Master Plan Approval</u> Approved December 16, 2022 (Amended Decision Letter dated December 28, 2022) for 6 single family residential lots, 2 of which are existing homes to remain, with a new public roadway. The previous approval was granted as an RPD (Residential Planning District) based off the previously provided yield plan for the project site. We have since revised the site layout as described below. This revised layout has been submitted and presented as a Pre-Application to the planning commission under Unified Development Review.
- <u>Design Re-Evaluation</u> We met with the applicant to discuss the economic feasibility of constructing a public roadway for 6 lots (two of which are currently accessed by an existing gravel drive). We explored options for re-working the site layout to minimize public infrastructure costs and eliminating the public roadway while achieving the same project density goal of 5 residential lots. We believe this has been achieved by the new proposed plan provided with this submission. Please note, AP 28 Lot 10 which includes an existing home will no longer be included in the proposed development's application since this lot and its access will remain in existing condition.
- Lot Design The proposed layout for the "rear lots" with reduced frontage allows the same density as the previously approved configuration. Relief will be requested for Lots 1 and 2 for the proposed 150' frontage, which allows space for the private driveways for Lots 3 and 4. Lots 3 and 4 are proposed in a hockey stick lot configuration with 20' frontage on Pippin Orchard Road containing a private driveway for each. Lot 5 will not need any relief and will remain as an existing non-conforming lot (due to frontage) accessed by the existing paved right of way easement. Relief will also be requested for the required minimum lot area of Lots 1-4 from the required 80,000 SF minimum for the A80 zone. All building setbacks as required by the A80 zone have been complied with. This new configuration allows for the applicant to eliminate the need for an additional public roadway, yielding less city maintenance cost, less stormwater runoff due to a reduction in impervious cover, and less visual impact for rural western Cranston.
- <u>Open Space</u> Although no longer required for this application, the applicant proposes to provide the minimum Open Space area as required for a RPD Subdivision as a part of this development. The provided open space includes access from Pippin Orchard Road through a proposed access easement along the southern property line of Lots 1 and 4. The public open space will remain in existing condition for passive recreation purposes. The open space will be subdivided into it's own lot and defined as public open space for the city.
- <u>Utilities</u> Proposed Lots 1 4 will be serviced by public sewer. Residential lot 5 has an existing OWTS which will remain in place. Veolia has confirmed that there is sewer availability for this site and has provided Cranston DPW with a letter for review. Each sewer service line proposes an E/1 Grinder Pump which allows the service lines to connect into the existing force main located on Pippin Orchard Road. The water service for Lots 1 - 4 includes proposed home service connections to the existing 16" water main on Pippin Orchard Road. Lot 5 will retain its existing private well. A letter of water service availability has been provided from Providence Water

along with this preliminary plan submission package. There is an existing hydrant located approximately 460' south of the proposed roadway on Pippin Orchard Road and we will work with the local fire department to ensure this is adequate.

- <u>Drainage</u> Each proposed home's footprint is approximately 2,880 SF, and runoff will be treated by individual rain gardens, with rain gutters routed to each rain garden using an underground roof leader system. Section C, Table 7 of the *State of Rhode Island Stormwater Management Guidance for Individual Single-Family Residential Lot Development* document was utilized when sizing the rain gardens; calculations are detailed on the design plans. Driveways have been designed as the following: permeable pavement or permeable pavers (Lots 3 and 4), and standard asphalt pavement graded to rain gardens (Lots 1 and 2). Note that Lots 1 and 2 have larger rain gardens, as their driveways will be graded to their respective lot's rain garden.
- <u>Phasing</u> The four proposed homes are to be built individually, as lots are sold.
- <u>State Permitting</u> The project has been submitted for review by the RIDEM Wetlands Program and approval will be provided prior to Final Plan. Additionally, the project will be subject to a RIDOT PAP review since Pippin Orchard Rd is a state road. This approval will also be provided prior to Final Plan.
- <u>Relief Requested Unified Development Review</u>
  - The applicant is requesting relief from 17.20.120 Schedule of Intensity Regulations (A-80 Zone)

Minimum Lot Aica Reguirea 00,000 Si	
Lot	Area Provided (Usable Area) SF
1	36,970 (33,087)
2	36,092
3	48,021 (47,614)
4	45,515 (41,244)

Minimum Lot Area- Required 80,000 SF

Minimum Lot width and frontage- Required 200'

Lot	Frontage Provided (Feet)
1	150
2	150
3	20
4	20

17.92.010.C.2 states in part that:

In granting a dimensional variance, that the hardship that will be suffered by the owner of the subject property if the dimensional variance is not granted shall amount to more than a mere inconvenience, which shall mean that the relief sought is minimal to the reasonable enjoyment of the permitted use to which the proposed property is devoted. The fact that a use may be more valuable after the relief is granted shall not be grounds for relief. We look forward to presenting and further discussing with the Planning Commission at the Preliminary meeting for this proposed development.

Sincerely, DiPrete Engineering Associates, Inc.

Jenna Shea Project Manager jshea@diprete-eng.com