

LexingtonHomes Riverwoods Reserve

BOARD OF TRUSTEES MEETING

MAY 25, 2023

Note: All renderings/perspectives shown are for illustration purposes only and depict plant sizing post-installation by +/-10 years.

Project Team

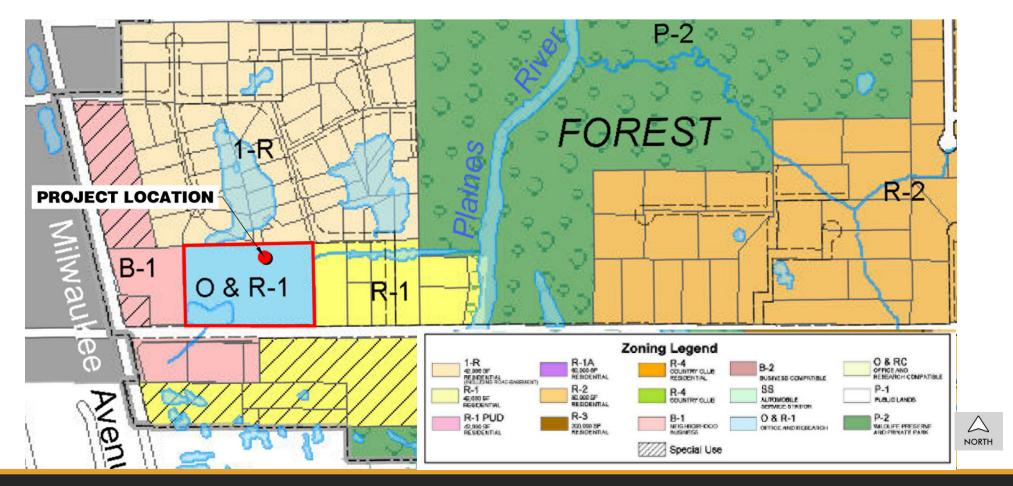
- Land Attorney: MPS Law | Harold Francke
- Developer: Lexington Homes | Nate Wynsma
- Land Planner: Haeger Engineering | Tom Jasek
- Landscape Architecture: Dickson Design Studio | Sharon Dickson
- Architecture: BSB Design | Jeff Mulcrone
- Traffic Engineer: KLOA | Luay Aboona
- Civil Engineer: Haeger Engineering | Todd Shaffer
- Wetland Consultant: Midwest Ecological | Robert Vanni

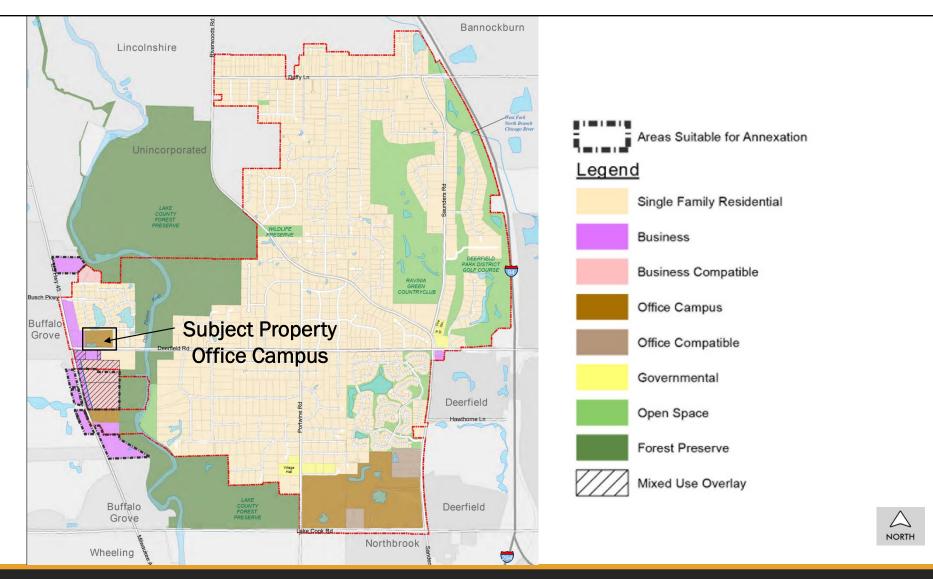
Project Location | Existing Land Use & Zoning



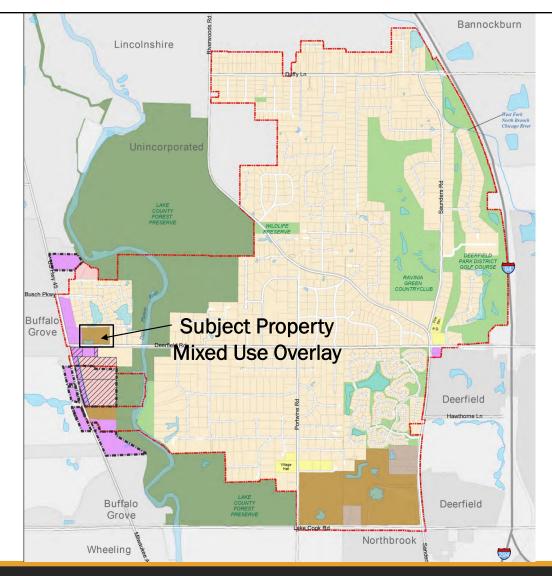


Project Location | Existing Land Use & Zoning





Site Information Comprehensive Plan (Current)



- 1) October 7, 2021: Plan Commission unanimously recommends approval of Comp Plan Amendment
- 2) Introduces Mixed Use Overlay Category for the first time
- 3) Purpose: To encourage consideration of office, business and residential uses, including multifamily development that works harmoniously to benefit the larger planning area
- 4) Agrees the Mixed Use Overlay Category would be appropriate for the Federal Life property

Site Information Comprehensive Plan (Proposed Amendment)

Subject Property | Current & Proposed Zoning

Current Zoning	0 & R1 Office and Research District One
Proposed Zoning	Special Use for Multi-Family Housing

Site Plan 54 Units (as proposed)







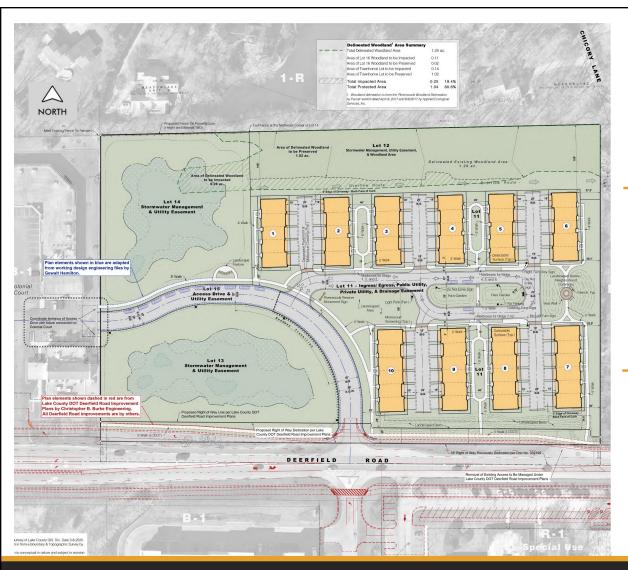


Site Plan 54 Units (reflective of Plan Commission recommendations)

54-Unit Plan:

Elements of Zoning & Subdivision Relief Requested

- 1) Amend Section 9-4A-3 to provide for Village Board establishment of all bulk regulations for a multiple-family housing development
- 2) Rezone Property from O & R1 Office and Research District One to 1-R District
- 3) Grant special use for a multiple family housing development with specific bulk regulations that are determined in accordance with Section 9-4A-3, as amended
- 4) Approve preliminary plat of subdivision



LexingtonHomes Yesterday. Today. Always. Site Data Gross Property Area 9.38 ac. Rear Load Townhomes 54 Units Net Density 5.8 DU/ Ac. **Building Separation** Front - Front 40' Back - Back 61' Roadway Width (Back/ Back Curb) Loop Road 25' 25' Motor Courts Access Drive 36' and 30' **Building Height** 35' Yard Summary Front 25' Side 30' Side Adjacent to Street 25 (at Proposed Access Drive) Rear 108

Site Plan 54 Units (5.80 Dwelling Units per Acre, Net Density) - NEW

Affordable Housing

Lexington proposes to advance the Village's goal of providing affordable housing options in the Village.

Riverwoods Reserve will provide a total of 8 units, equating to 15% of the total number of dwelling units, including:

- 1) Construct and sell 3 affordable townhomes on the Subject Property.
- 2) Pay a fee-in-lieu of \$125,000 per unit for 5 additional affordable units (\$625,000 total fee).
- 3) Affordability requirement will be maintained in perpetuity through the recording of an, Affordable Housing Restrictive Covenant.

Legend

Parcel Boundaries

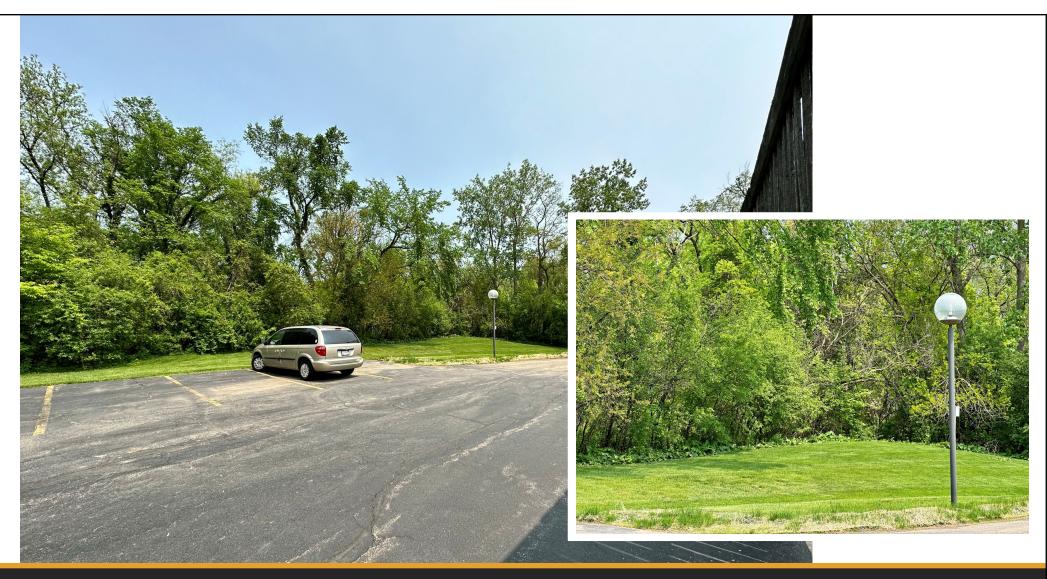
Water bodies

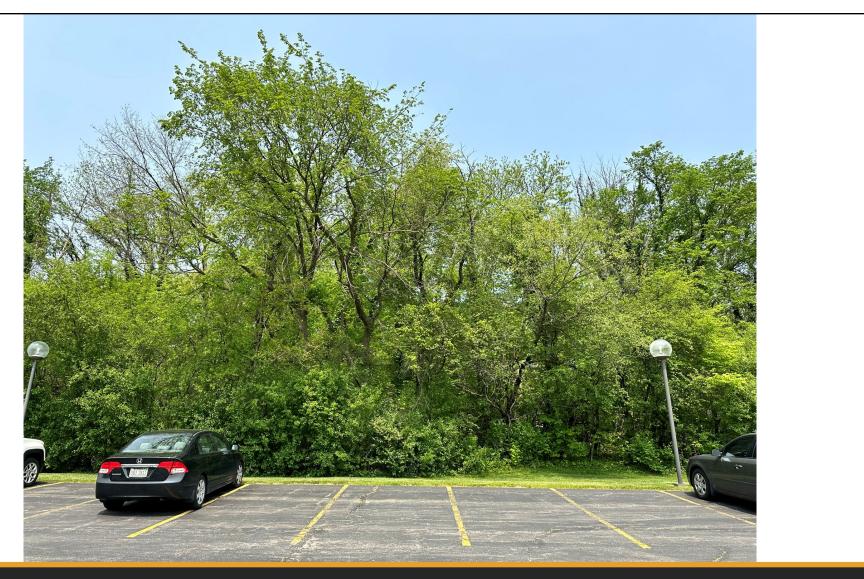
Delineated Woodland ¹ Area Summary		
Total Delineated Woodland Area	1.29 ac.	
Area of Lot 16 Woodland to be Impacted	0.11	
Area of Lot 16 Woodland to be Preserved	0.02	
Area of Townhome Lot to be Impacted	0.14	
Area of Townhome Lot to be Preserved	1.02	
Total Impacted Area	0.25	19.4%
Total Protected Area	1.04	80.6%

Delineated Woodlands (April 8, 2017)



Woodlands | Riverwoods Woodland Delineation by Parcel (April 8, 2017) vs. Proposed Plan











Landscape Plan | Proposed Conditions - NEW

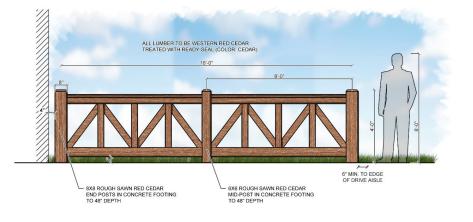




Landscape Plan | Proposed Conditions – NEW







DETAIL - MOTOR COURT ENHANCEMENT FEATURE

SCALE: 1/2" = 1'-0"

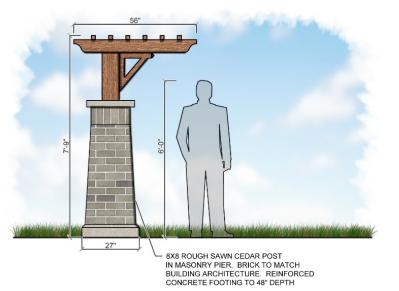
Landscape Site Enhancements: Interior Courtyards & Fencing







ALL LUMBER TO BE WESTERN RED CEDAR TREATED WITH READY-SEAL (COLOR: CEDAR)



DETAIL - COURTYARD ENHANCEMENT FEATURE

SCALE: 1/2" = 1'-0"

Landscape Site Enhancements: Common Area Seating & Interior Courtyard Feature



Inspiration Images: Naturalized Basins



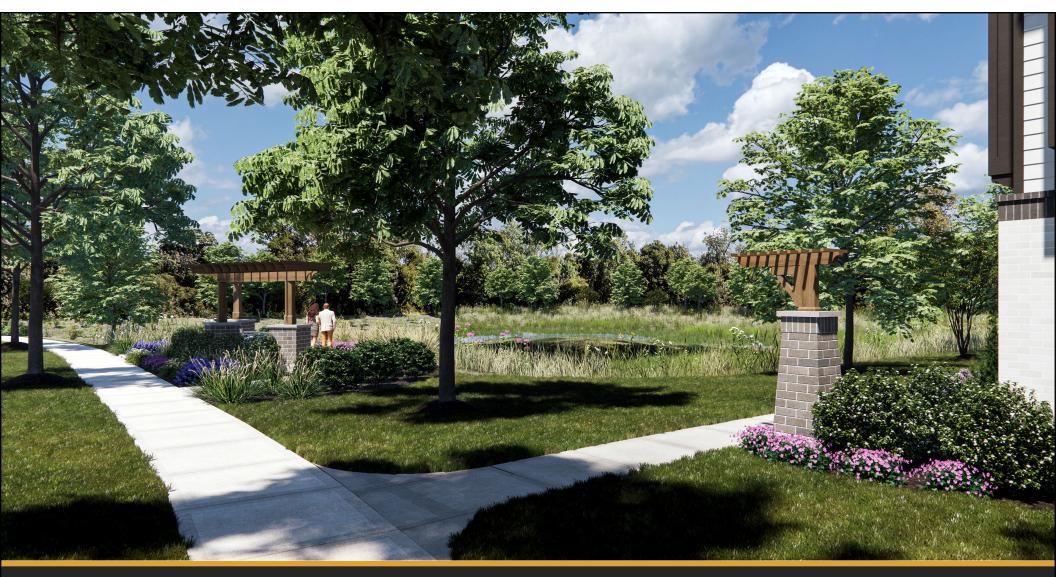


View 2 | Looking East Along New Access Road



View 3 | Looking East Along New Access Road







View 6 | Looking East Along Internal Boulevard

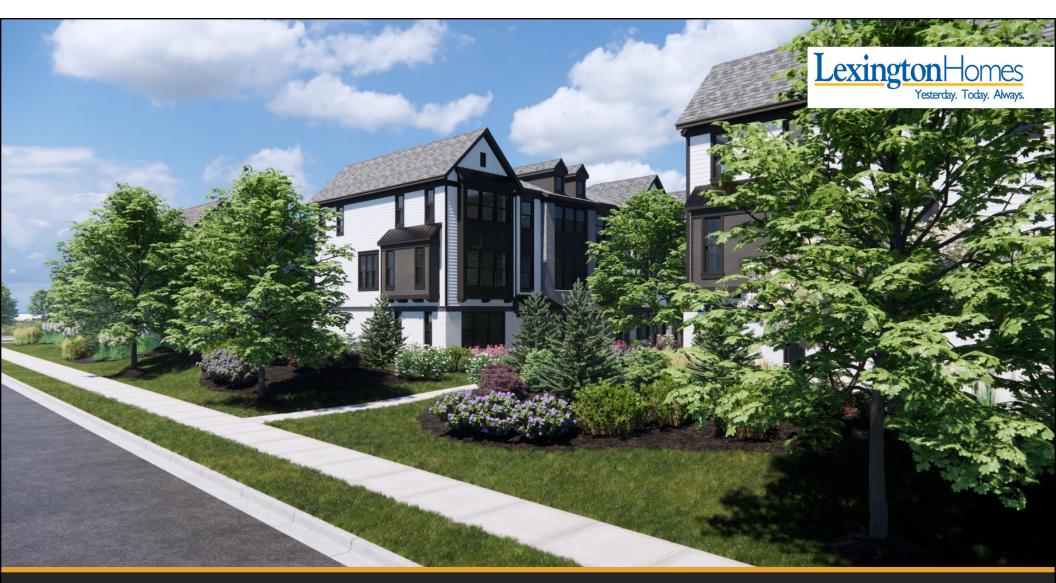


View 7 | Rain Garden



View 8 | Motor Court Entry & Screening





View 10 | Looking Northwest Along Deerfield Road



View 11 | At New Intersection Along Deerfield Road



View 12 | Looking Northeast Along Deerfield Road

Project Benefits

- 1) Provision of new housing option for existing residents
- 2) Dedication of right-of-way and granting of easements that will facilitate construction of planned Deerfield Road improvements
- 3) Construction of stormwater management improvements that will facilitate the construction of planned Deerfield Road improvements
- 4) Dedication of right-of-way and granting easements that will facilitate construction of access road that will provide alternate access route to and from Deerfield Road for commercial properties at corner of Deerfield Road and Milwaukee Avenue
- 5) Improve drainage conditions by working with Village and owners of properties to the east
- 6) Construction of affordable housing units
- 7) Contribution for construction of additional housing units
- 8) New tax revenues for the Village, local school districts and other taxing jurisdictions with little impact on those taxing bodies

Plan Commission Recommendations

- 1) Approve the text amendment amending Section 9-4A-3 of the Village Code in accordance with the changes shown below:
- 2) (a) Rezone the Subject Property to the 1-R 42,000 square feet district
 - (b) Approve the Preliminary Subdivision Plat
 - (c) Grant a special use under Section 9-4A-3 (as amended) and under section 9-11-9 for multiple family dwellings, and for subdivision that includes lots without frontage on public rights of ways, for a project to be constructed and operated subject to the following conditions:
 - (ii) The access road shall be dedicated to the Village per the Subdivision Plat; all public and infrastructure improvements will be assured by completion security.
 - (iii) The project shall comply with the requirements of the Woodland Protection Ordinance.
 - (iv) The project shall satisfy the requirements of the Village's Affordable Housing Plan; the Plan Commission recommends that there should be 5 or 6 onsite affordable units and the fee-in-lieu for offsite units should be based upon the recommendation of a knowledgeable consultant.
 - (v) The project shall satisfy the requirements of the Lake County Watershed Development Ordinance as enforced by the Village.

Plan Commission Recommendations

- (vi) A homeowner's declaration of covenants to provide for perpetual care and maintenance of the common areas and improvements, including the engagement of a qualified ecological contractor to maintain native plantings, shall be submitted and approved by the Village and recorded before issuance of a certificate of occupancy.
- (vii) The project shall grant easements to Lake County and the Village (which may be notated on the Subdivision Plat) for compensatory storage as reflected in the applicant's storm water reports, as requested by the County in connection with the widening of Deerfield Road and the creation of the Access Road.
- (viii) The project shall maximize native plantings in manicured areas and, in consultation with the village ecologist, enhance the northern woodland buffer area, especially with native plants.
- (ix) The Board should explore the desirability of installing a fence and removing the mulch path in the northern woodland buffer area, to address concerns of the Meadowlake community.

Riverwoods Reserve

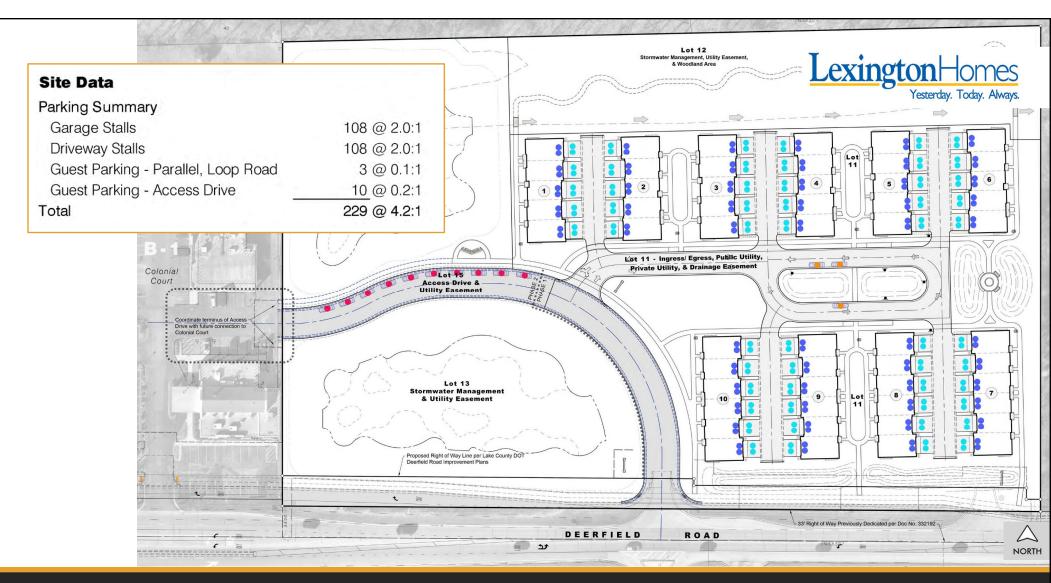




Thank You | Open Discussion



Riverwoods Reserve



Site Plan 54 Units – Guest Parking



Architecture | Color Palettes A & B, Front Elevations

43





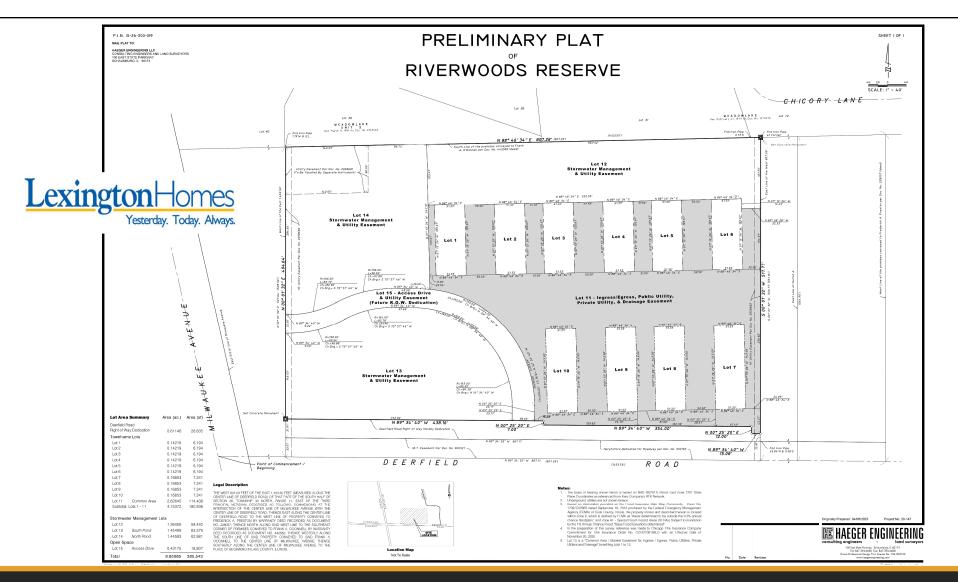
Architecture | Color Palettes A & B, Rear & Side Elevations



Site Information Existing Wetland Conditions

The proposed redevelopment of this property will be completed via three phases:

- <u>Phase 1</u> includes the stormwater improvements in preparation for the Deerfield Road widening for the benefit of the County and Village. Rough grading and tree removals for the second half of the Phase 3 access road installation are also included.
- <u>Phase 2</u> includes the construction of the first half of the new access road and the new housing community.
- <u>Phase 3</u> includes the construction of the second half of the new access road from the residential site to the commercial/retail property immediately to the west for the benefit of the Village and community at large.



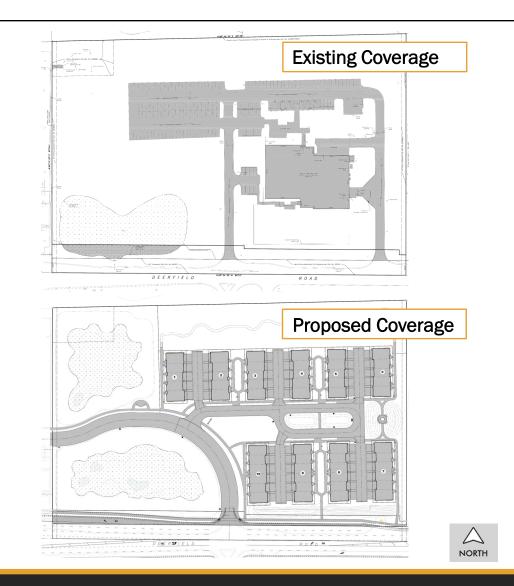
Preliminary Plat

Existing Conditions:

Impervious	104,523 s.f.	2.40 acres
Pervious	269,860 s.f.	6.20 acres
Water Surface	34,170 s.f.	0.78 acres
Total Site	408,553 s.f.	9.38 acres

Proposed Conditions:

Impervious	148,630 s.f.	3.41 acres
Pervious	209,033 s.f.	4.80 acres
Water Surface	50,890 s.f.	<u>1.17 acres</u>
Total Site	408,553 s.f.	9.38 acres





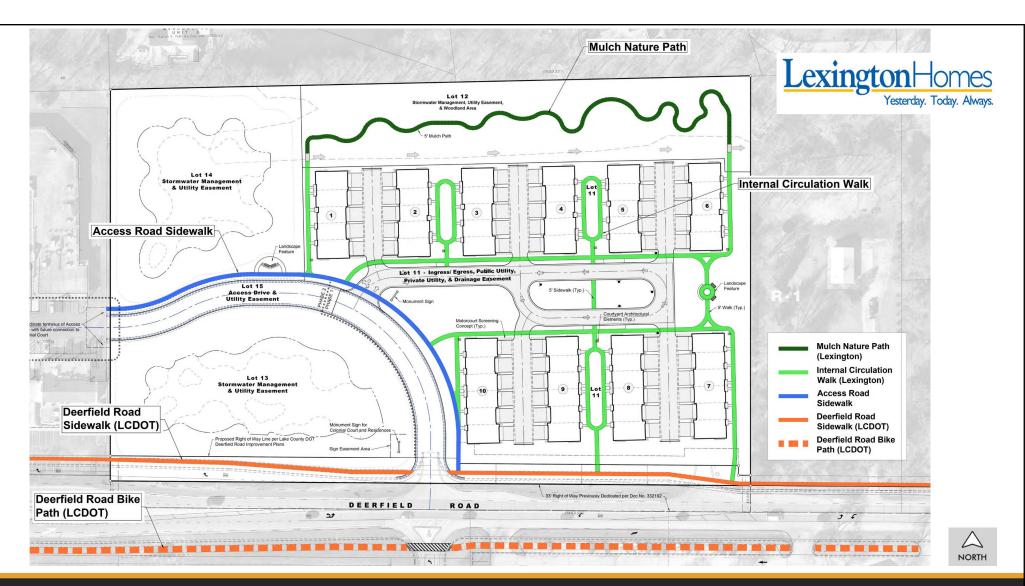
Site Plan 54 Units – Vehicular Turning (Moving / Delivery Truck)



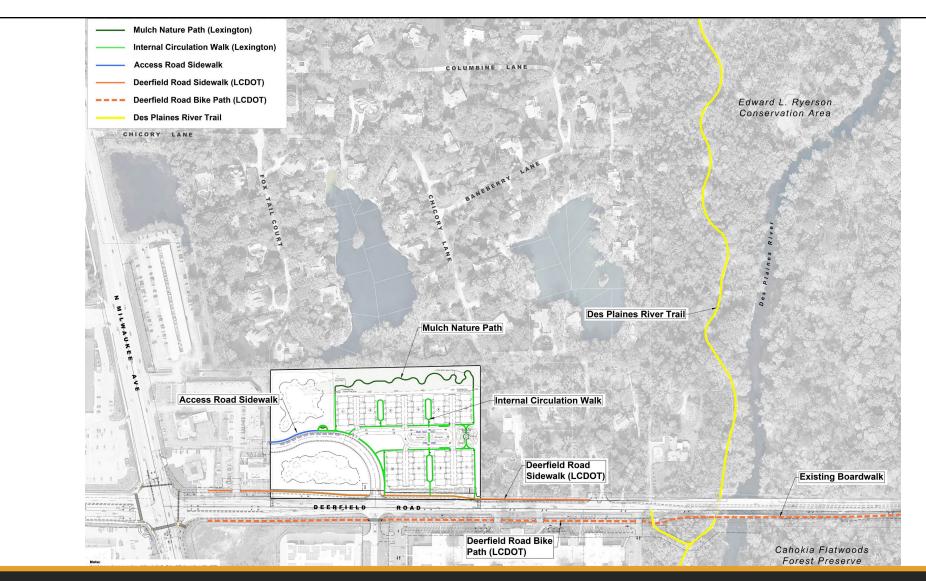
Site Plan 54 Units – Vehicular Turning (Semi Truck)



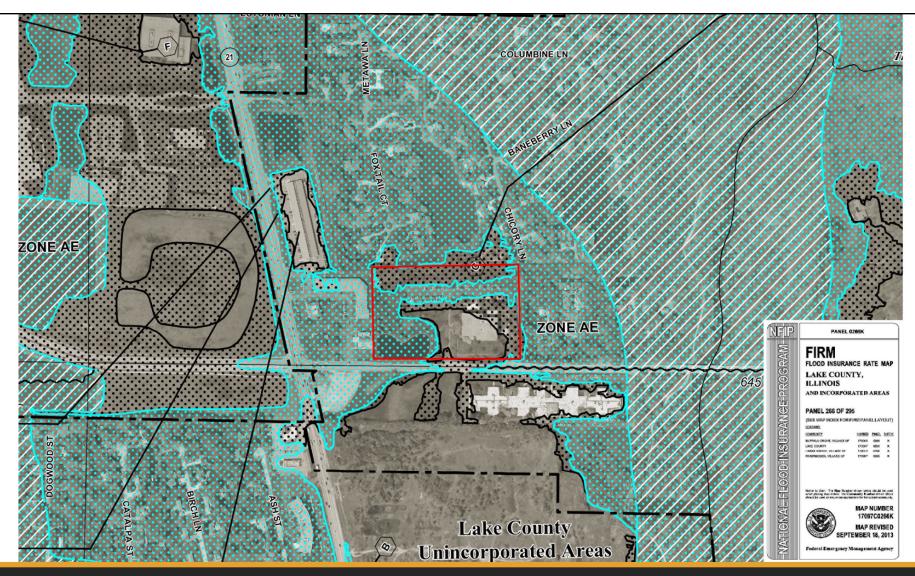
Site Plan 54 Units – Vehicular Turning (Fire Truck)



Site Plan 54 Units – Pedestrian Connectivity



Sidewalk Connectivity | Regional Scale

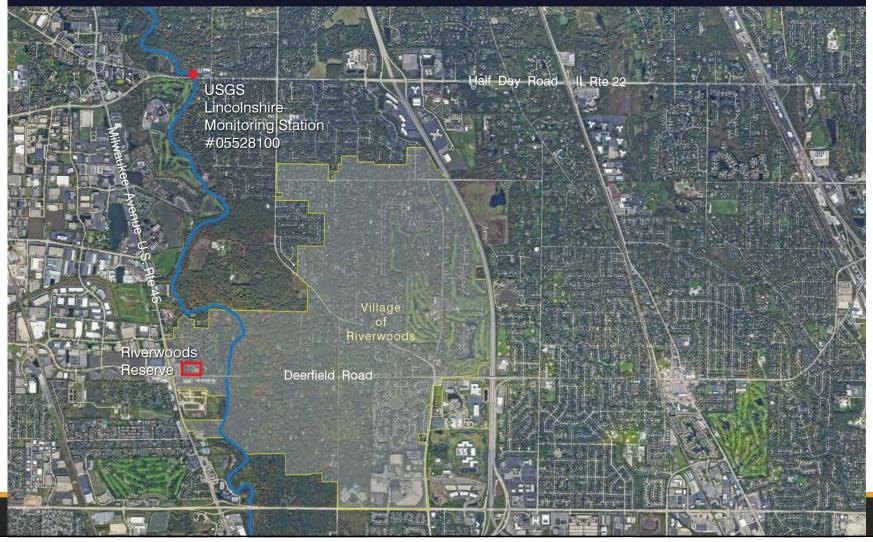


Site Information FEMA FIRM Exhibit (Floodplain & Floodway)

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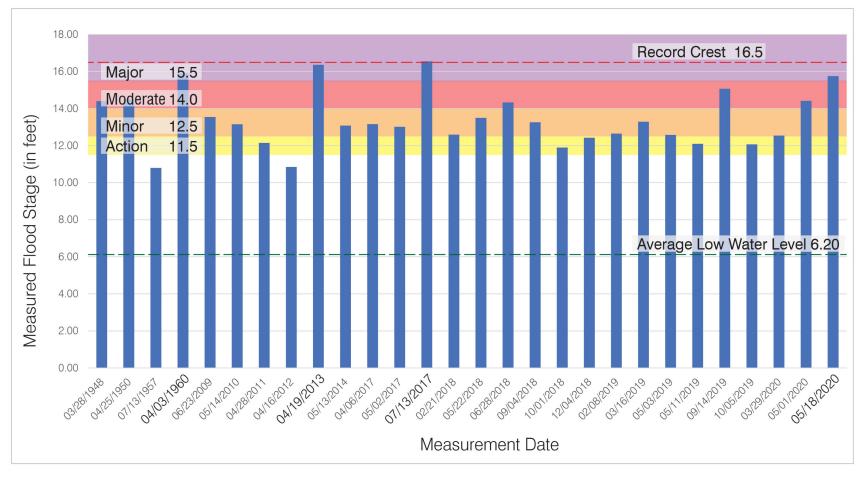
NORTH

Annual Flood Peaks for Des Plaines River at Lincolnshire



Historical Record of Des Plaines River Crest

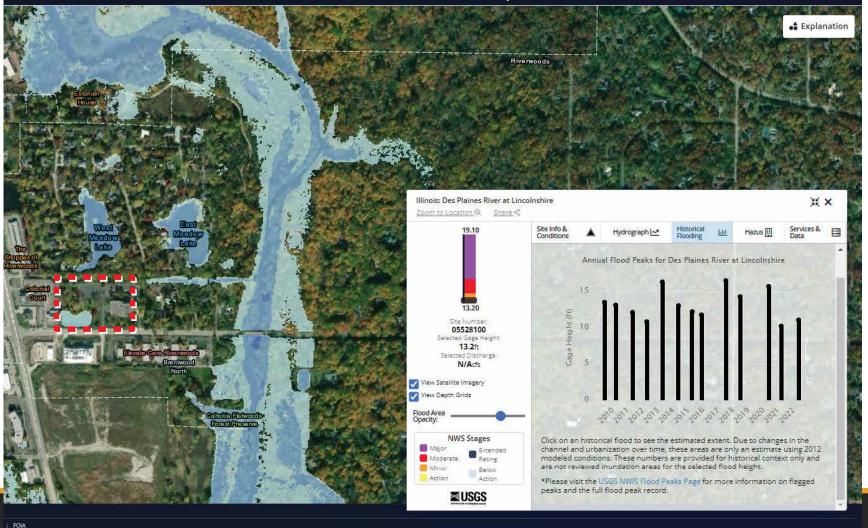
As Measured at USGS Lincolshire Water Gauge Site No. 05528100

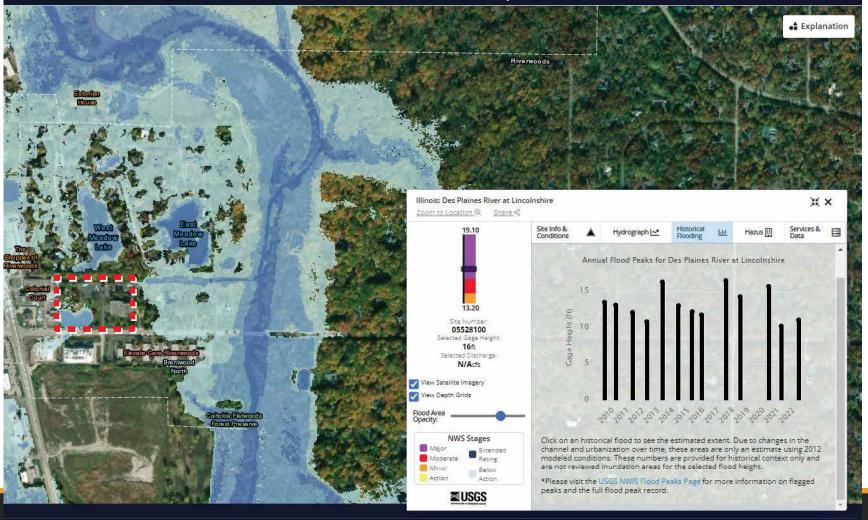


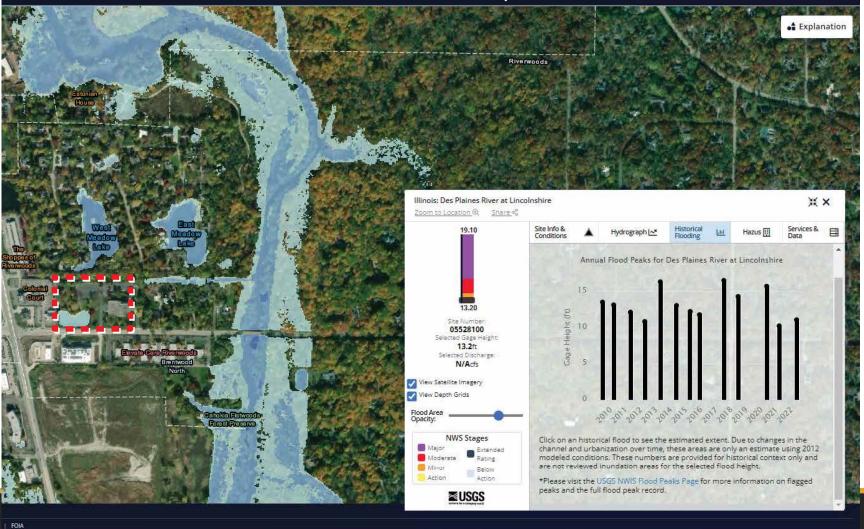
Note:

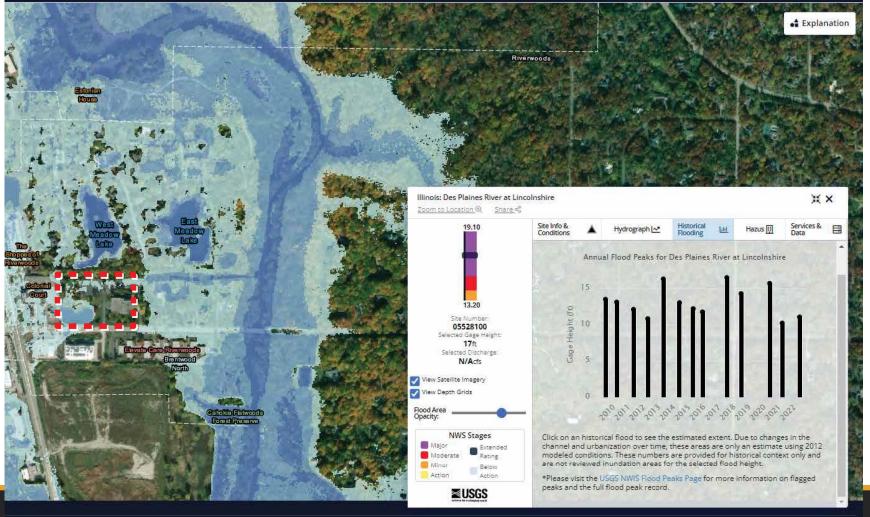
Data shown is a compilation of publicly available information from the USGS and NOAA websites, accessed in Spring, 2023. Add 630 to guage elevations for approximate NAVD88 datum.

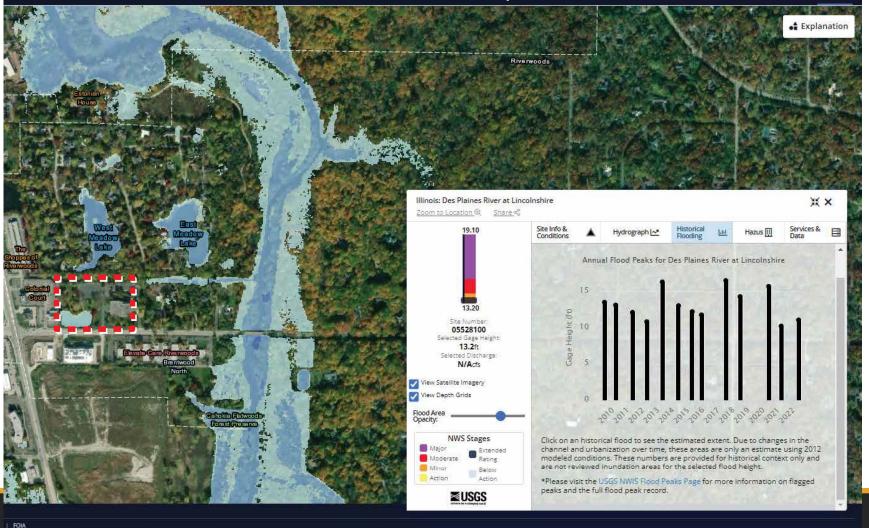
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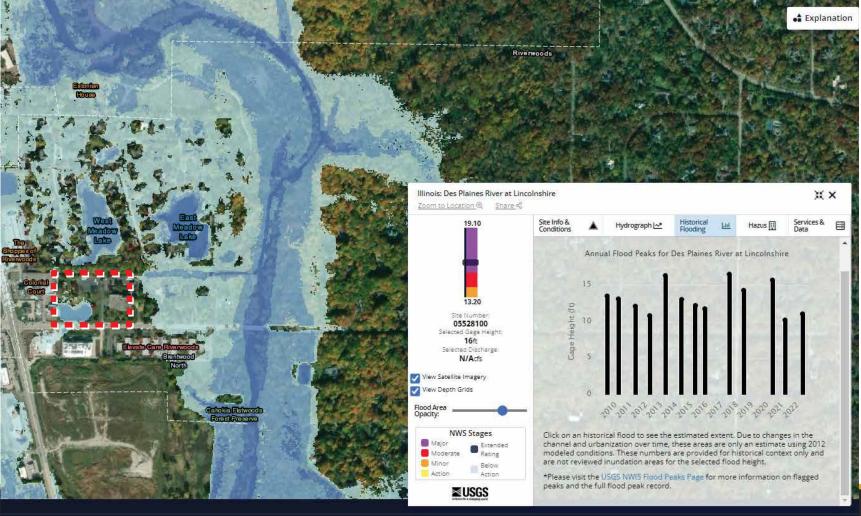


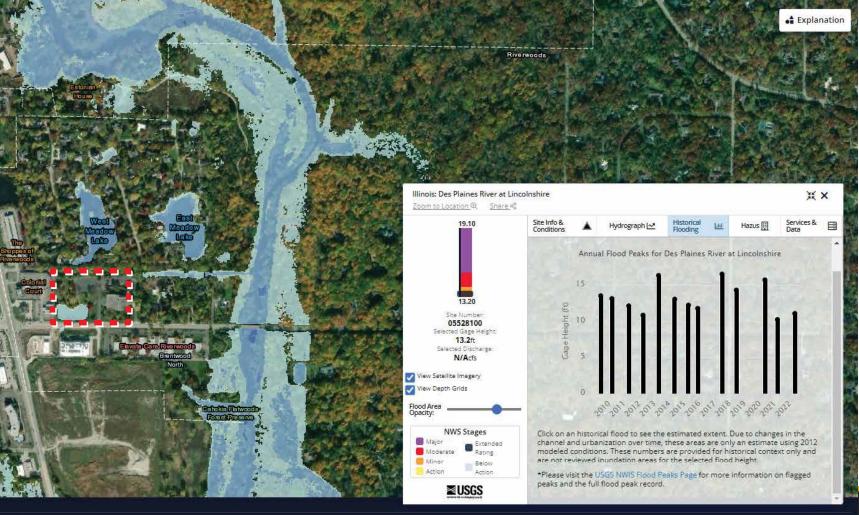


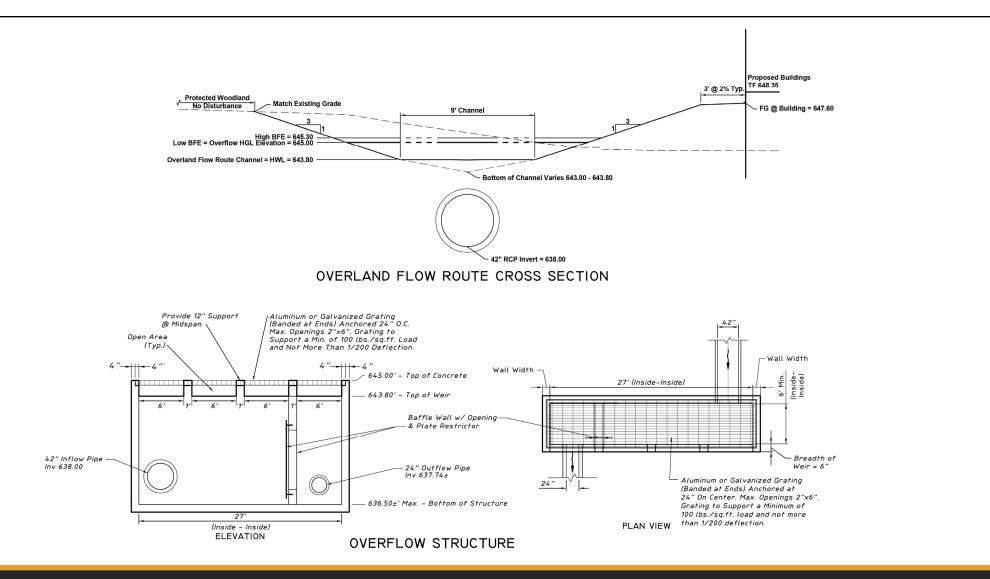












2-Year Analysis

Table 1: 2-Year Model Comparison (Existing vs Proposed)

Scenario	Peak Flow (cfs)	Peak Elevation (ft)	Storage @ Peak Elevation (ac-ft)	Storm Event (100 Year)
Existing Conditions	12.55	641.95	3.450	24 Hour
Proposed Conditions	0.78	640.24	3.863	72 Hour
Change	-11.77	-1.71	+0.413	+48 Hour

Table 2: 2-Year Peak Flow Comparison (Existing vs Proposed)

	Existing Condition	ons	Proposed Cond	Reduction	
ID			2-Year Peak Flow (cfs)	Storm Event (2 Year)	Change in Flow (cfs)
To Drainage Ditch (Des Plaines River)	8.83	48 Hour	0.78	72 Hour	-8.05
To Meadowlake	0.02	18 Hour	0.01	18 Hour	-0.01
To 3700 Deerfield Road	0.07	18 Hour	0.04	18 Hour	-0.03
To Deerfield Road	0.08	18 Hour	*		*

*Discharge tributary to Deerfield Road to be determined in Final Engineering, but shall not exceed existing

100-Year Analysis

Table 3: 100-Year Model Comparison (Existing vs Proposed)

Scenario	Peak Flow (cfs)	Peak Elevation (ft)	Storage @ Peak Elevation (ac-ft)	Storm Event (100 Year)
Existing Conditions	13.58	643.97	5.818	18 Hour
Proposed Conditions	3.37	643.82	11.623	48 Hour
Change	-10.20	-0.15	+5.805	+30 Hour

Table 4: 100-Year Peak Flow Comparison (Existing vs Proposed)

	Existing Condition	ons	Proposed Cond	Reduction	
ID			100-Year Peak Flow (cfs)	Storm Event (100 Year)	Change in Flow (cfs)
To Drainage Ditch (Des Plaines River)	9.64	18 Hour	3.37	48 Hour	-6.27
To Meadowlake	0.33	2 Hour	0.12	2 Hour	-0.21
To 3700 Deerfield Road	0.98	2 Hour	0.64	2 Hour	-0.34
To Deerfield Road	1.26	1 Hour	*		*

*Discharge tributary to Deerfield Road to be determined in Final Engineering, but shall not exceed existing



Site Plan 54 Units – Proposed Conditions vs. Existing Conditions (Plan)

Student Generation Estimates Lexington Homes - Riverwoods Reserve Residential Development

Riverwoods, Illinois



Table 1. Residential Multipliers for All School Age Children -- Illinois

Unit Type	Total		Elementary	Jr High	Total	High School
onit type	SAC	Grades K-2	es K-2 Grades 3-6 Grades 7-8 Grades K-8		Grades K-8	Grades 9-12
2 Bedroom	0.06	0.01	0.02	0.01	0.04	0.02
3 Bedroom	0.20	0.06	0.05	0.01	0.12	0.08
4 Bedroom	0.55	0.16	0.13	0.09	0.38	0.17

Source: Rutgers University

Table 2. Estimated Number of All School Age Children by Grade and by District

Unit Type	Unit Count	School Age Children by Grade					School District	
Ontrype	onit type onit count		Grades 3-6	Grades 7-8	Grades K-8	Grades 9-12	ES 102	HS 125
2 Bedroom	21	0.2	0.4	0.2	0.8	0.4	0.8	0.4
3 Bedroom	30	1.8	1.5	0.3	3.6	2.4	3.6	2.4
4 Bedroom	3	0.5	0.4	0.3	1.1	0.5	1.1	0.5
Totals	54	2.5	2.3	0.8	5.6	3.3	5.6	3.3

Sources: Lexington Homes, Rutgers University, JRG

Table 3. Ratio of Public to Private School Attendance

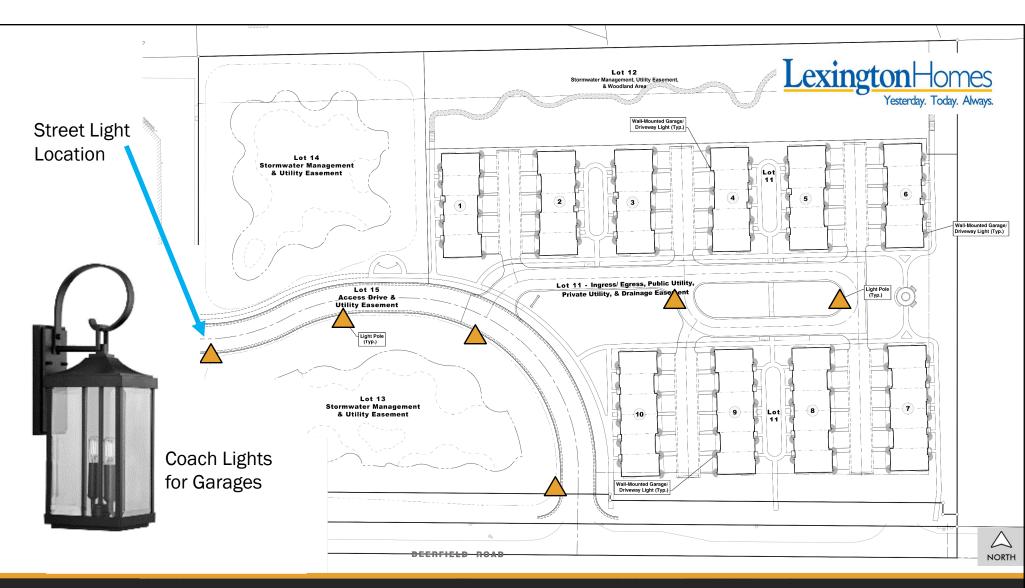
School District	Public	Private			
Aptakisic-Tripp School District 102	95.8%	4.2%			
Stevenson High School District 125	97.1%	2.9%			
Source: U.S. Census, American Community Survey (5-Year Estimates, 2020), JRG					

Table 4. Estimated Number of Public School Age Children by Grade and by District

Unit Type	Unit Count	Grades K-2	Grades 3-6	Grades 7-8	Grades K-8	Grades 9-12	ES D102	HS D125
2 Bedroom	21	0.2	0.4	0.2	0.8	0.4	0.8	0.4
3 Bedroom	30	1.7	1.4	0.3	3.4	2.3	3.4	2.3
4 Bedroom	3	0.5	0.4	0.3	1.1	0.5	1.1	0.5
Totals	54	2.4	2.2	0.7	5.3	3.2	5.3	3.2

Johnson Research Group, Inc.

4/12/23



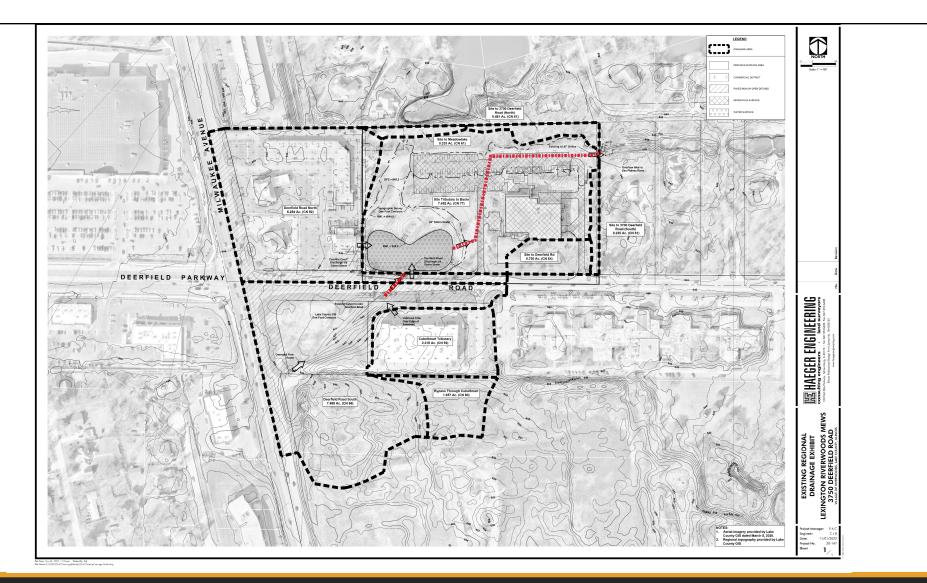
Site Plan 54 Units – Site Lighting



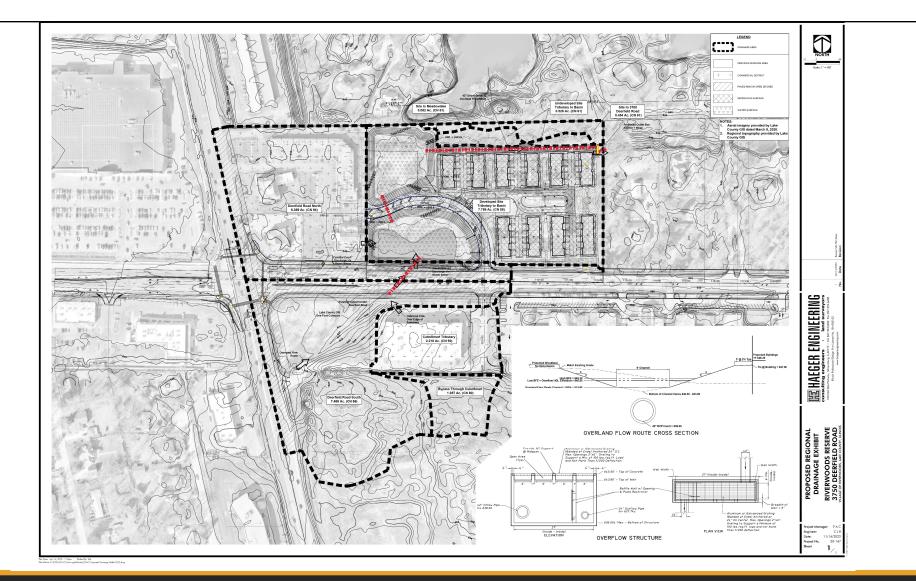
Landscape Architecture: Entry Signage Design & Locations



Landscape Site Enhancements: Berm, Plantings, & Stone Outcropping Along Deerfield Road



Drainage | Existing

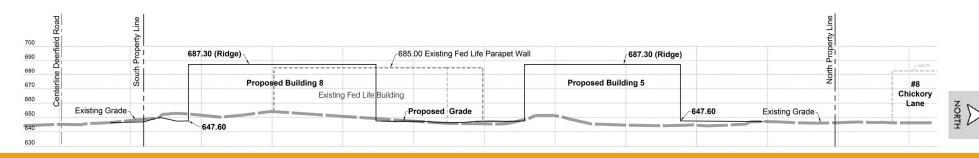


Drainage | Proposed

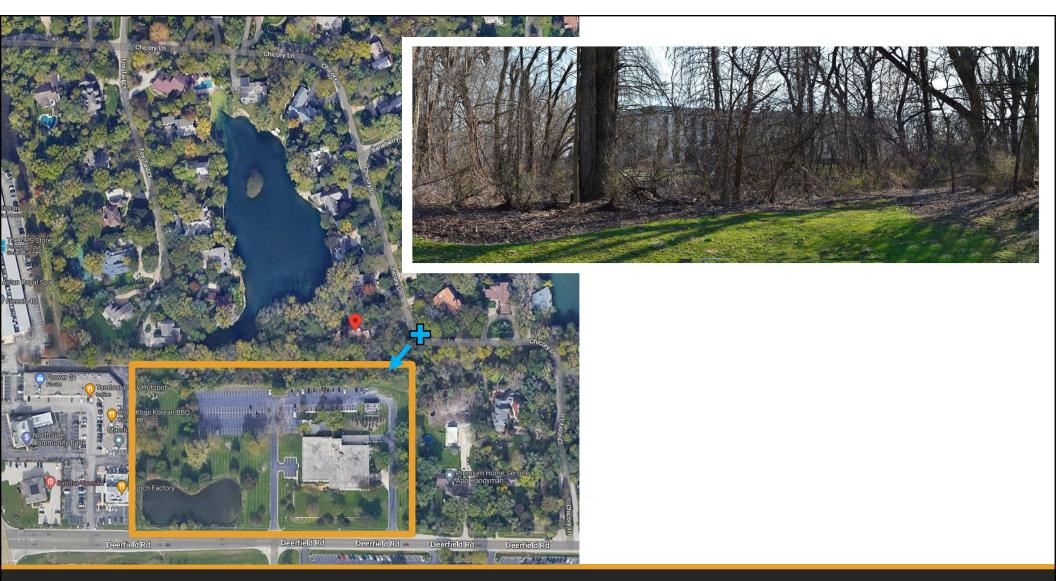
Civil Engineering: Existing Conditions







Site Plan 54 Units – Proposed Conditions vs. Existing Conditions (Plan & Section)



View A | Looking From Meadowlake (Adjacent to 8 Chicory Lane) South – Positioning & EXISTING VIEW



View A1 | Looking From Meadowlake (Adjacent to 8 Chicory Lane) South – EXISTING VIEW





View A2 | Looking From Meadowlake (Adjacent to 8 Chicory Lane) South – PROPOSED VIEW

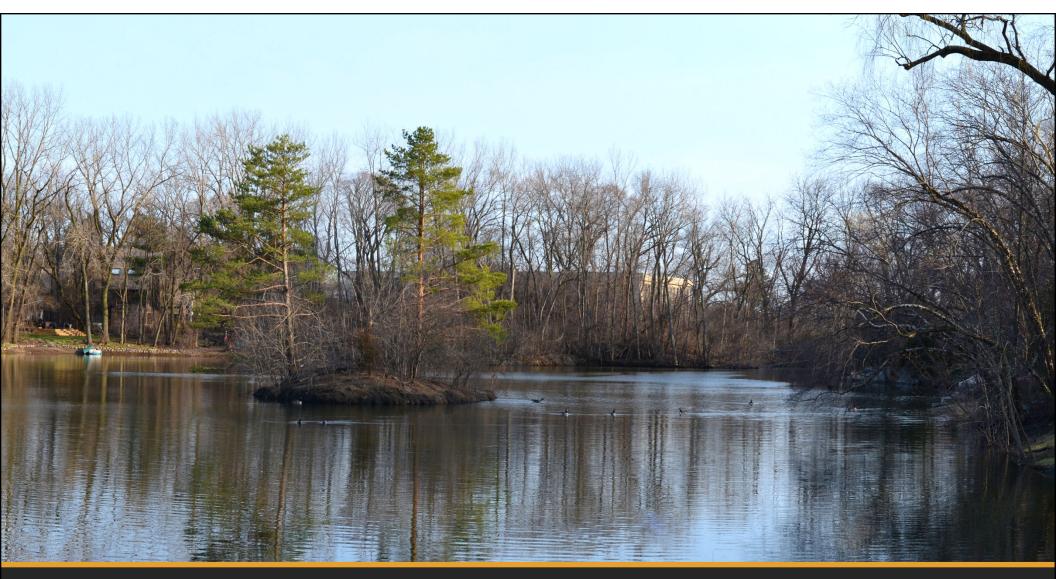




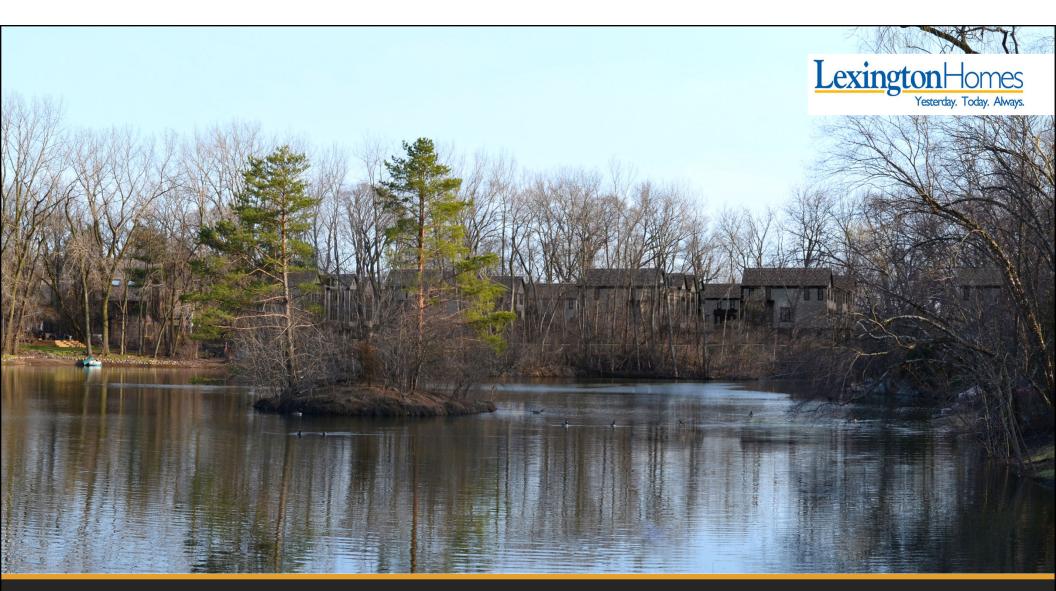
View A3 | Looking From Meadowlake (Adjacent to 8 Chicory Lane) South – PROPOSED VIEW



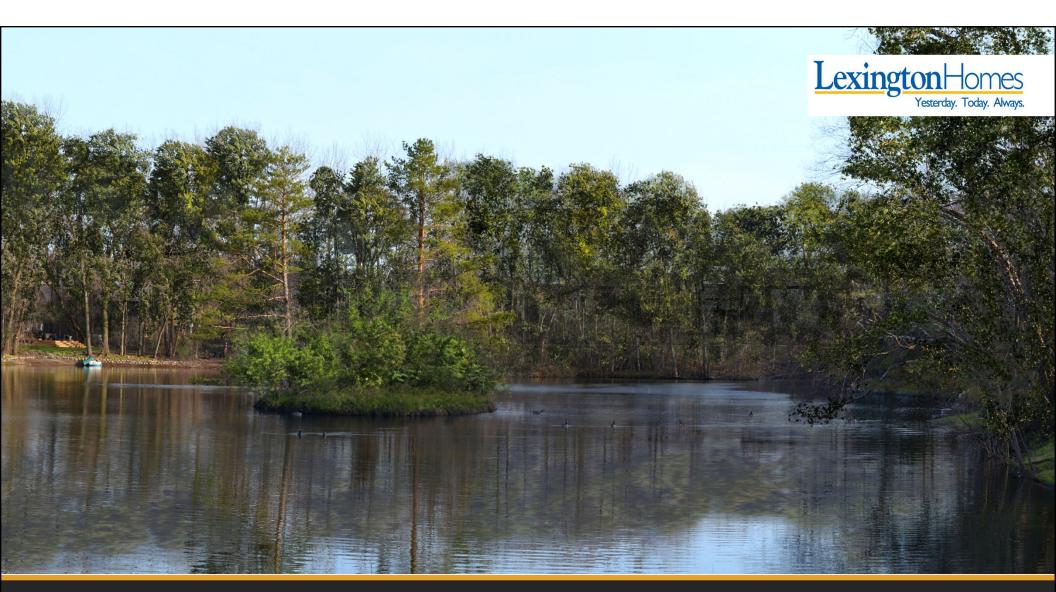
View B | Looking From Meadowlake (1 Foxtail Court) South – Positioning & EXISTING VIEW



View B1 | Looking From Meadowlake (1 Fox Tail Court) South – EXISTING VIEW



View B2 | Looking From Meadowlake (1 Fox Tail Court) South – PROPOSED VIEW



View B3 | Looking From Meadowlake (1 Fox Tail Court) South – PROPOSED VIEW

Trees – Canopy & Understory

- Autumn Fantasy Freeman Maple (Acer freemanii 'Autumn Fantasy')
- Sugar Maple (Acer saccharum)
- o Autumn Splendor Horsechesnut (Aesculus x arnoldiana 'Autumn Splendor')
- Shadblow Serviceberry (Amelanchier canadensis)
- o Common Hackberry (Celtis occidentalis)
- Princeton Sentry Ginkgo (Ginkgo biloba 'Princeton Sentry')
- Honeylocust var. (Gleditsia sp.)
- Vernal Witchhazel (Hamamelis vernalis)
- o Common Witchhazel (Hamamelis virginiana)
- American Sweetgum (Liquidambar styraciflua)
- Emerald City Tuliptree (Liriodendron tulipifera 'JFS-Oz')
- Royal Star Magnolia (Magnolia stellata 'Royal Star')
- Butterflies Magnolia (Magnolia x 'Butterflies')
- Tina Sargent Flowering Crabapple (Malus sargentii 'Tina')
- Dawn Redwood (*Metasequoia glyptostroboides*)
- White Oak (Quercus alba)
- o Swamp White Oak (Quercus bicolor)
- o Red Oak (Quercus rubra)
- Regal Prince Hybrid Oak (Quercus robur x bicolor 'Regal Prince')
- Ivory Silk Japanese Tree Lilac (*Syringa reticulata 'Ivory Silk'*)
- Valley Forge American Elm (Ulmus americana 'Valley Forge')







Shrubs – Evergreen

- Green Velvet Boxwood (Buxus x 'Green Velvet')
- Enci Dwarf Mugo Pine (Pinus mugo 'Enci')
- Green Wave Japanese Yew (*Taxus cuspidata 'Green Wave'*)
- Hicks Intermediate Yew (Taxus media 'Hicksii')



Shrubs – Deciduous

- Iroquois Beauty Black Chokeberry (Aronia melanocarpa 'Iroquois Beauty')
- Low Scape Mound Black Chokeberry (Aronia melanocarpa 'Low Scape Mound')
- Artic Fire Red-Osier Dogwood (Cornus sericea 'Farrow')
- Kodiak Orange Southern Bush Honeysuckle (Diervilla x 'Kodiak Orange')
- Cranberry Cotoneaster (Cotoneaster apiculatus)
- Yuki Cherry Blossom Deutzia (Deutzia x 'NCDX2')
- o Invincibelle Ruby Smooth Hydrangea (Hydrangea arborescens 'Invincibelle Ruby')
- Annabelle Smooth Hydrangea (Hydrangea arborescens 'Annabelle')
- Little Quick Fire Panicle Hydrangea (Hydrangea paniculate 'SMHPLQF')
- o Blue's Festival St. John's Wort (Hypericum kalmianum 'SMHKBF')
- Little Devil Ninebark (Physocarpus opulifolius 'Donna May')
- Dwarf Koreanspice Viburnum (Viburnum carlesii 'Compactum')
- Midnight Wine Weigela (Weigela florida 'Midnight Wine')













Ornamental Grasses

- Beyond Blue Blue Fescue (Festuca ovina glauca 'Beyond Blue')
- Heavy Metal Switch Grass (Panicum virgatum 'Heavy Metal')
- Red Head Fountain Grass (Pennisetum alopecuroides 'Red Head')
- Standing Ovation Bluestem Grass (Schizachyrium scoparium 'S.O')
- Autumn Moor Grass (Sesleria autumnalis)
- Prairie Dropseed (Sporobolus heterolepsis)







Perennials & Groundcovers

- Bugleweed var. (Ajuga reptans)
- Summer Beauty Ornamental Onion (Allium x 'Summer Beauty')
- Blue Ice Blue Star (Amsonia montana 'Blue Ice')
- Montrose White Calamint (Calamintha nepeta 'Montrose White')
- Rozanne Cranesbill (Geranium sanguieneum 'Gerwat')
- Catmint var. (Nepeta sp.)
- Black-Eyed Susan var. (Rudbeckia sp.)
- Hummelo Lambs Ear (Stachys monieri 'Hummelo')



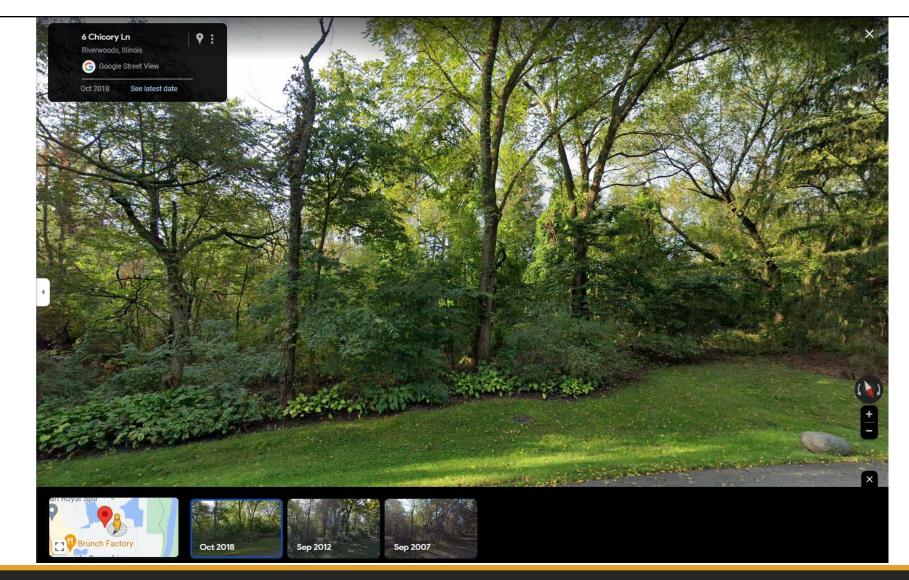




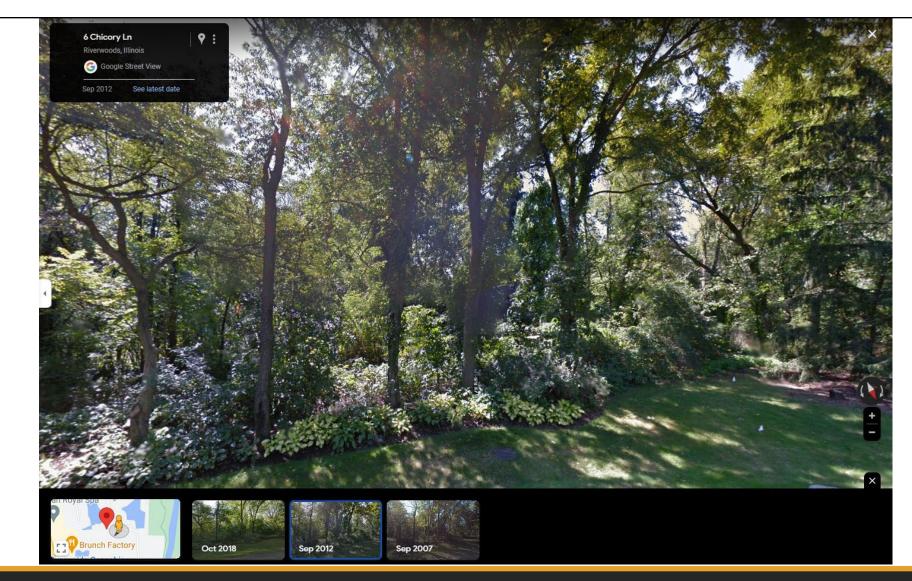




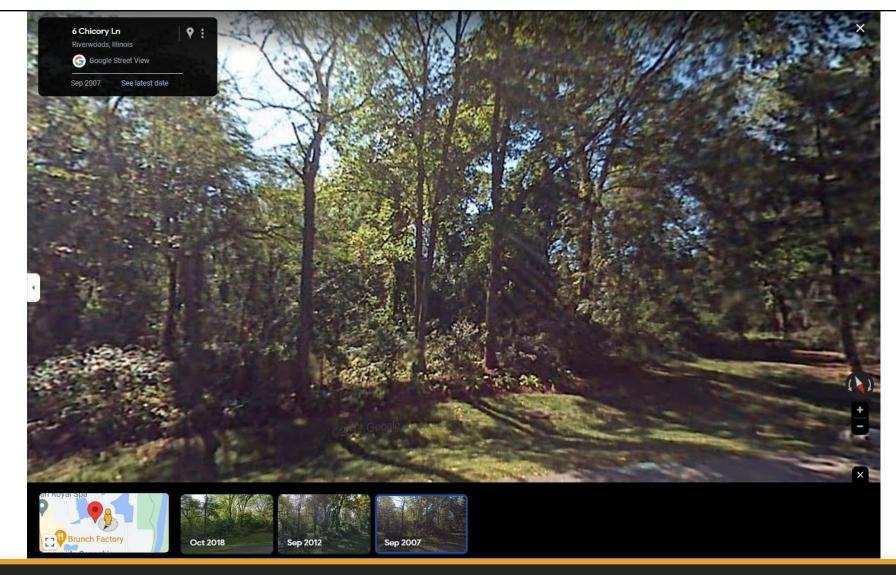




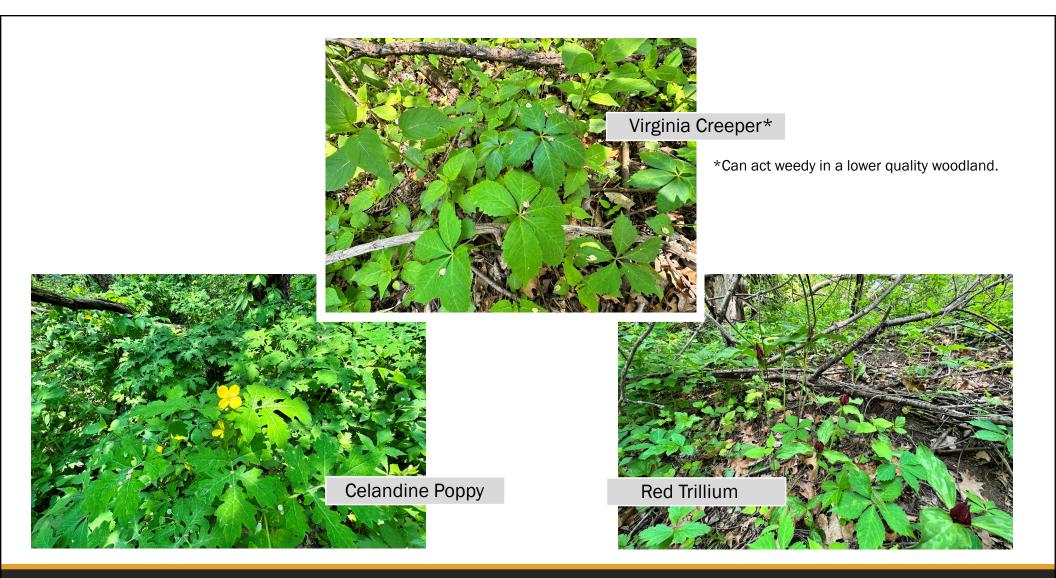
Historic View, October 2018 | Looking From Meadowlake (Adjacent to 8 Chicory Lane) South



Historic View, September 2012 | Looking From Meadowlake (Adjacent to 8 Chicory Lane) South



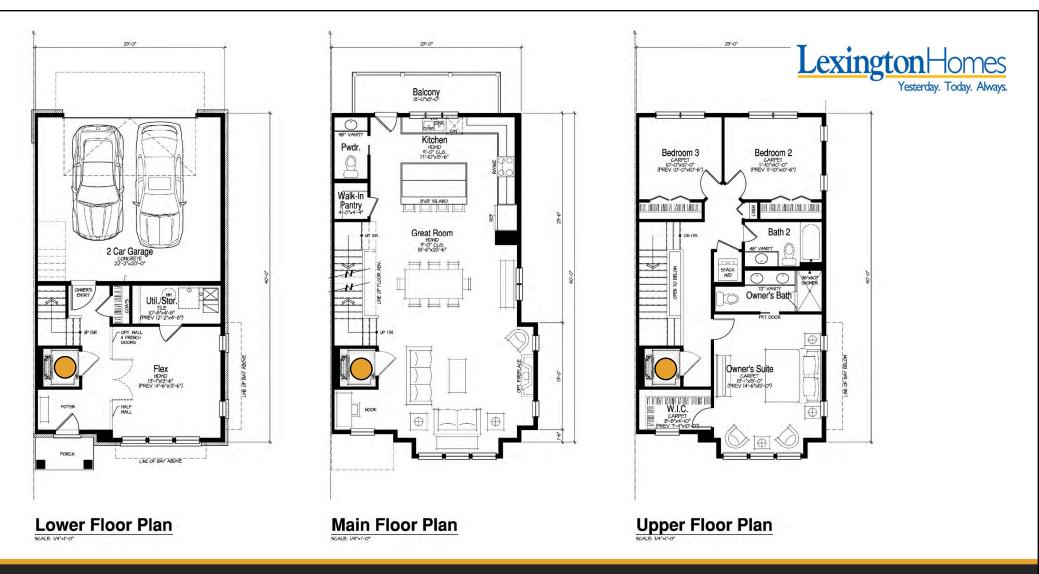
Historic View, September 2007 | Looking From Meadowlake (Adjacent to 8 Chicory Lane) South



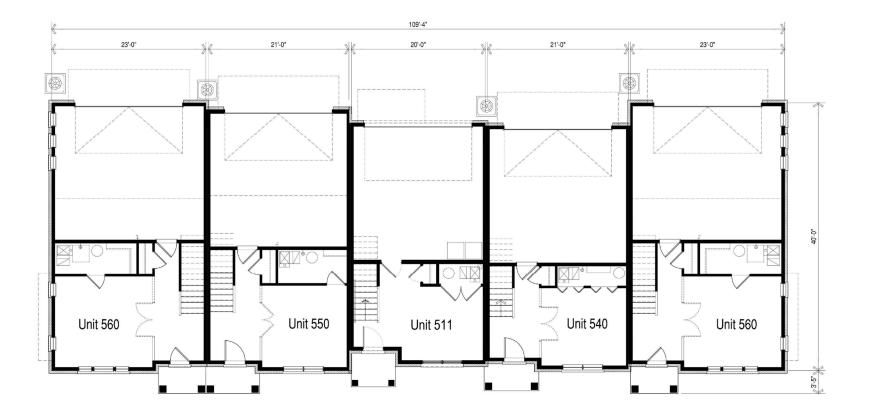
Woodland Protection Area: Existing Conditions – Native Plants



Woodland Protection Area: Existing Conditions – Invasive Plants







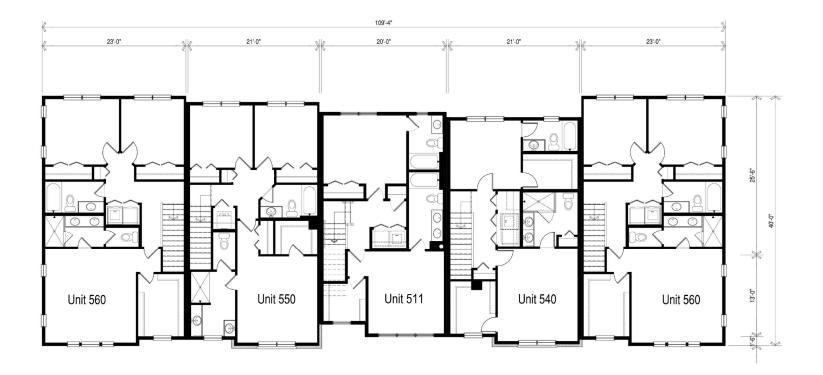
Architecture 5-Unit Floor Plan, Lower Level





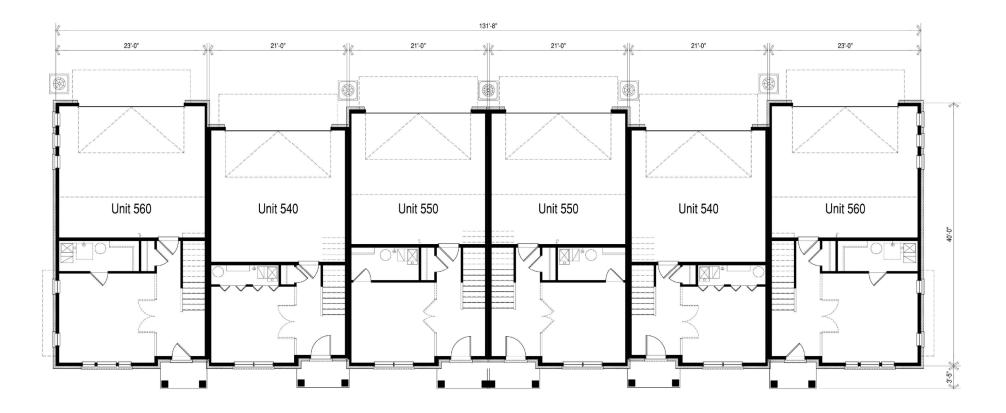
Architecture 5-Unit Floor Plan, Main Level





Architecture 5-Unit Floor Plan, Upper Level





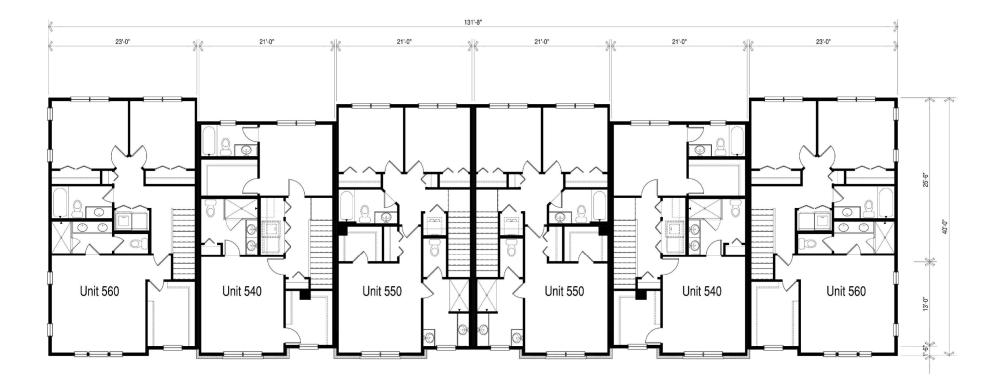
Architecture 6-Unit Floor Plan, Lower Level





Architecture 6-Unit Floor Plan, Main Level





Architecture 6-Unit Floor Plan, Upper Level