

STEWART

Parkwood Community
PARKS, OPEN SPACE, AND RECREATION COMPREHENSIVE MASTER PLAN

Durham, North Carolina | 2018

PARKWOOD COMMUNITY

Parks, Open Space, and Recreation Comprehensive Master Plan

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2018

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“The more successfully a city mingles everyday diversity of uses and users in its everyday streets, the more successfully, casually (and economically) its people thereby enliven and support well-located parks that can thus give back grace and delight to their neighborhoods instead of vacuity. ”

- Jane Jacobs



1 Introduction



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Preface
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INTRODUCTION

PREFACE

Stewart is pleased to present a comprehensive parks and open space plan for Parkwood, a residential community located in Durham, North Carolina. Our team commends the Parkwood Homeowners' Association (HOA) for the foresight in addressing current and future parks and open space needs as well as concerns of the Parkwood Community. The project was initiated and funded by the Parkwood HOA and offers the opportunity to help provide a sustainable management approach to the community's parks and open spaces future. This comprehensive plan defines the community's goals and lays out a strategy that can be implemented over time.

The Parkwood Parks and Open Space Comprehensive Plan represents an important opportunity for the HOA board to energize the interests and capitalize on the shared goals of the community. Through the work found within this plan, we recognize the importance of measured growth, the benefits of environmental preservation, and the importance of addressing Parkwood's current and future goals.

This report is a comprehensive summary of existing conditions, community input, and recommendations for future design efforts and priorities. Implementation of recommendations will require community support, partnership with city and non-profit entities, volunteer efforts and potential hiring of design and construction consultants.



Figure 1.01: Bamboo in Parkwood forested area.



SITE CONTEXT

The Parkwood Community, a 575-acre planned community, was conceived in the 1950s and started construction in the early 1960s. The property is situated just south of I-40, 1.7 miles east of Southpoint Mall off NC Highway 54. The property is bordered to the north by a number of properties being developed for multi-family along NC 54. To the east, the community is bordered by Northeast Creek, a large meandering creek that drains much of southern Durham and the Research Triangle Park. Beyond Northeast Creek to the east of Parkwood is a commercial district located along NC 55 with businesses that include restaurants, a grocery store, retail shopping, hotels, and service stations. This area also includes some office space providing services for many people living nearby. Audubon and Lake Park are single family home communities neighboring Parkwood to the south and west. Home prices typically range from \$150-\$300 thousand dollars in these neighborhoods. Continuing south, these neighborhoods are bordered by flooded timber that eventually forms an upper edge of Jordan Lake 6.2 miles away. This bottomland forest area prohibits development from occurring south of Parkwood and past Durham's county line just one mile away. Parkwood's western border lies adjacent to the older single family neighborhoods of Lakehurst and Fairfield with The Ridges of Parkwood apartments occupying a smaller area next to Parkwood.

PARKWOOD COMMUNITY

Within the property, Parkwood has 1,006 homes with most averaging under 2,000 square feet and range in price between \$200 thousand and \$300 thousand. The neighborhood property has one lake (Parkwood Lake) and two small ponds, Emerald Pond and Euclid Pond. Parkwood contains three (3) parks, five (5) playground areas, and one baseball field. Additionally, outside of the property but part of the development, Parkwood is supported by Parkwood Elementary School and a small commercial core at the center of the community. The Parkwood Community Center operates as an office for administrative purposes as well as a venue for smaller community gatherings. A shopping center with a Muslim mosque, Mediterranean market, and Al-Huda Academy provide residents a variety of cultural options for dining and learning. Also included in the community is a United Methodist Church, a community pool at a nearby townhouse, another pool at Parkwood Swim Club Pool, 4D Church (including Parkwood Baptist Day Care Center), and Baha'i Center, all of which foster a diversity of activities.

Property Data

- Total Property Area: +/-574.8 ac.
 - Total Parks & Open Space: +/- 143 ac.
Net Open Space: +/-104.9 ac.
- Parkwood Lake
Net Park Space: 5 Parks - 9.1 ac. (Includes Ballfield)
 - Playground owned by others)
Ponds and Lakes: 28.25 ac.

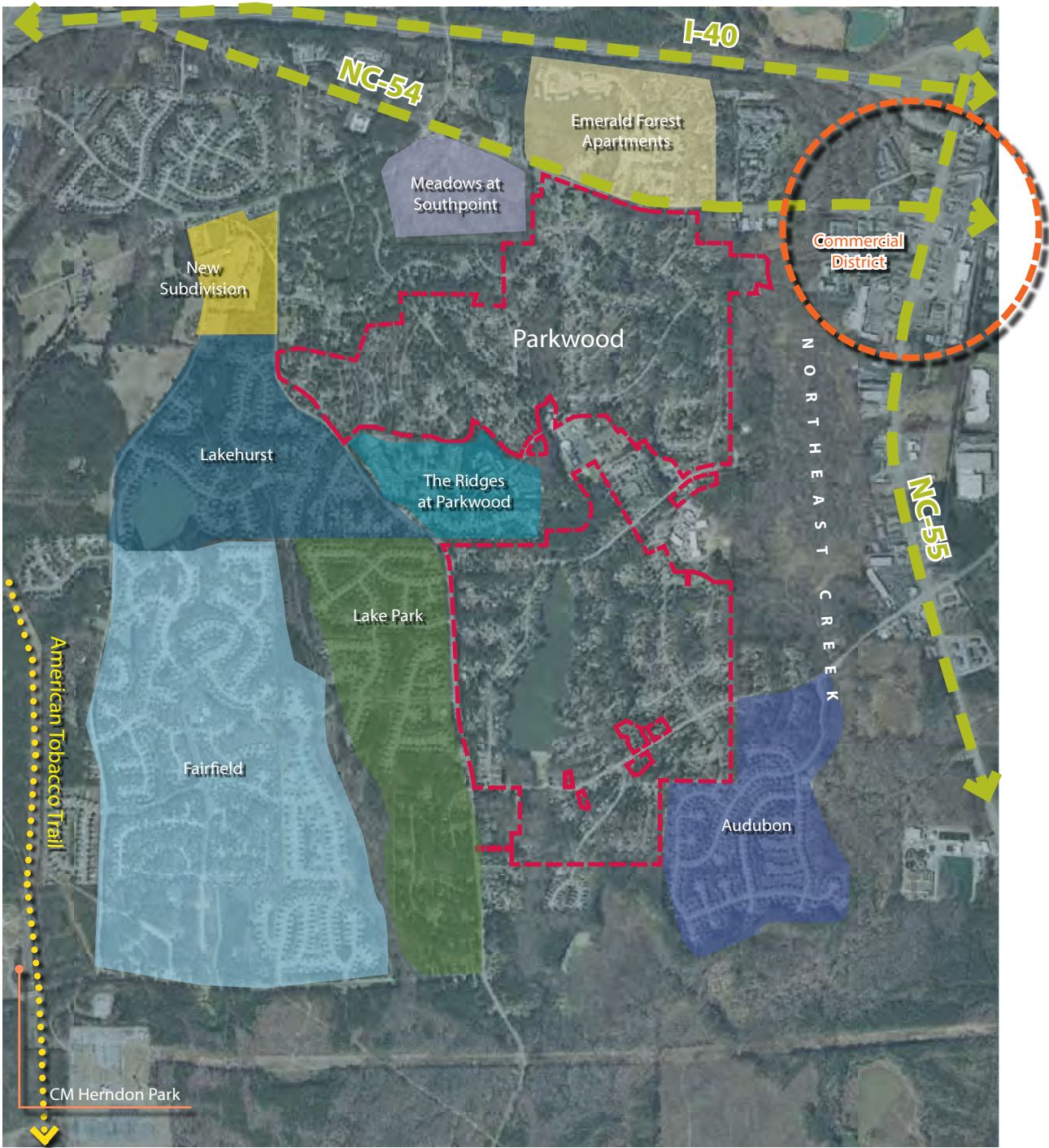


Figure 1.02: Map of neighboring community developments.

HISTORY

Parkwood was developed in the early 1960s as new housing for the employees of the recently conceived Research Triangle Park. The subdivision, which won awards for its design, incorporated new design elements, which are now common in residential subdivisions: cul-de-sacs, loop streets, and a minimum number of large through streets, enabling traffic to disperse efficiently. The street network allowed children an easy walk to Parkwood Elementary School, which was built on a tract of land set aside by the developers, Kavanagh-Smith & Co.

1940s - 1960s

The area of land Parkwood sits on today was previously made up of farm fields and wooded timber. A few homesteads dotted these fields and were primarily accessed by Revere Road where it connects to NC 54 today. The northern portion of Revere Road existed back then along with Grandale Drive to the west and Sedwick Road to the south.

1960s - 1990s

When it was decided to be developed as a model new-home community; the nearest grocery store was located eight miles away and water came from community wells. Soon after the initial phases of home construction, the Parkwood Shopping Center was built. Its volunteer fire department (VFD) was not conceived until 1969 along with the Parkwood Library in 1975, both through the significant efforts of Parkwood residents.

Parkwood was built through a phased-development approach. Originally, the homes in Parkwood were

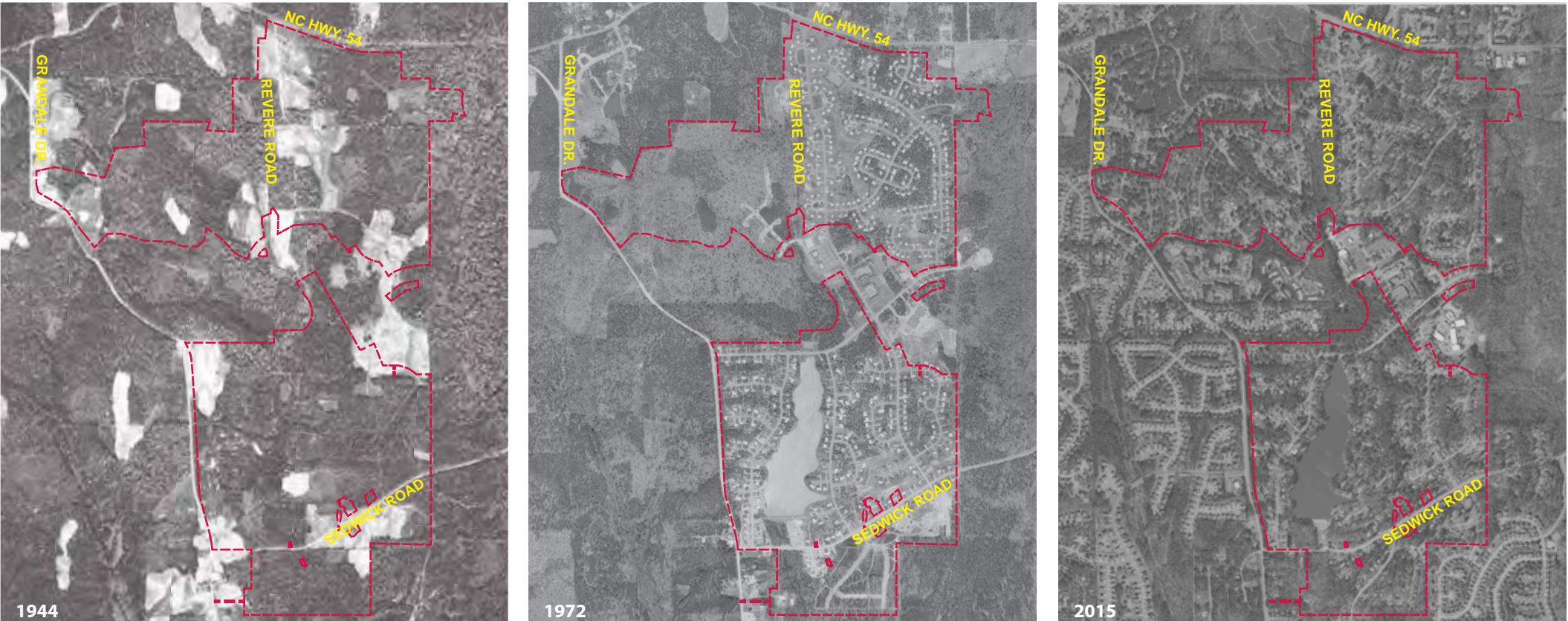


Figure 1.03: Aerial images of Parkwood's development over time.

relatively modest; the average price of a new home in the US in 1962 was \$12,500. The homes in Parkwood sold for between \$11,500 and \$22,500 at that time. The northwest portion of Parkwood continued to develop with many homes being built during the 1970s and 1980s.

1990s - PRESENT

Throughout the 1990s the region continued to grow with many new subdivisions being built in southern Durham. The last lots of Parkwood were developed in the early 1990s off Derbyshire Place. Parkwood's volunteer fire department had grown in previous decades to add two additional stations in their service district reaching beyond Parkwood's neighborhood boundary. With the additional growth in the region, the VFD grew to house one of the six NC HazMat Regional Response Teams. Today, the fire department has 20 paid staff, 36 part-time staff, and 150 volunteers. In 2015, the Parkwood VFD merged with Durham County's Fire and Rescue service, and remains an integral part of the community.

The new century brought more area development with The Streets at Southpoint Mall and widening of Interstate 40. Increasing growth on the land around Parkwood has prompted developers to build homes on smaller lots with little to no amenities. This is in stark contrasts to Parkwood's larger lots, amenities and gracious open space areas. The committees that keep Parkwood running are an important part of preserving and building the legacy of the community.

VISION & GOALS

The Parkwood Community is a large single-family home community constructed over many decades to include 1,006 homes on 560 acres of land with natural amenities such as lakes, open space, parks, trails, and active sports fields. The Parkwood Steering Committee provided input to create the following vision statement and goals:

Preserve the diverse, established community and natural environment while also creating opportunities for improvements to the common open spaces to encourage accessibility, recreation, and socialization for all residents.

Goals

- >> Goal 1: Connect the Parkwood homeowners to their community and region.
- >> Goal 2: Provide safe and comfortable access for all user groups within parks and open spaces.
- >> Goal 3: Provide a financing approach to accomplish the comprehensive planning goals for the community.
- >> Goal 4: Engage the community throughout the process.
- >> Goal 5: Develop a needs assessment, identify a strategy and series of next steps to help the Parkwood Association implement the efforts identified within this comprehensive report.



Figure 1.04: Trail and lookout area off of Clermont Road.



Approach ²



CHAPTER CONTENTS

- Overview
- Process and Approach
- Purpose of Comprehensive Plan
- Why Park Planning
- Trends

APPROACH

OVERVIEW

The neighborhood community of Parkwood located in southern Durham is a traditional neighborhood first built in the 1960s and designed with some of the first suburban design principles being utilized at that time. The neighborhood was built over a period of decades though the 1980s and was organized in a way that reflected the community and regional economy of that day.

Today, the community and region have grown around Parkwood, highlighting the uniqueness of its layout and open-space qualities in contrast to more contemporary suburban community developments. As the surrounding landscape has changed and the community's residents have diversified, so has the need for updating and amending how Parkwood functions as a community. The Parkwood HOA recognized the need to evaluate and update its common park and open spaces through a comprehensive, objective planning process. From this process, Parkwood hopes to develop itself as a community with a park and open space system that is inclusive of all users and supports a changing demographic of residents while enhancing its unique qualities as one of Durham's first suburban-designed neighborhoods.

PROCESS & APPROACH

The comprehensive planning process is an approach for evaluating land and existing facilities relevant to user needs and future growth trends. The planning process evaluates the overall community needs and how these spaces are being used with the intent to provide specific guidelines and programming suggestions. A comprehensive approach entails the following process.

- 1) Researching and gathering information
- 2) Analyzing and assessing the needs of the community
- 3) Establishing a program and location of elements
- 4) Developing a cost analysis and financing strategy
- 5) Proposing a plan and phased development approach based on feedback from residents
- 6) Suggesting next steps to be considered for detailed design and implementation.

This Comprehensive Plan will document the planning process for further use by the client. By planning now, Parkwood will be better positioned to accommodate many of the changing dynamics for a community this large. The recommendations listed throughout this book will help make more cost effective and timely decisions for implementation.



Figure 2.01: Existing playground equipment in the Parkwood community.

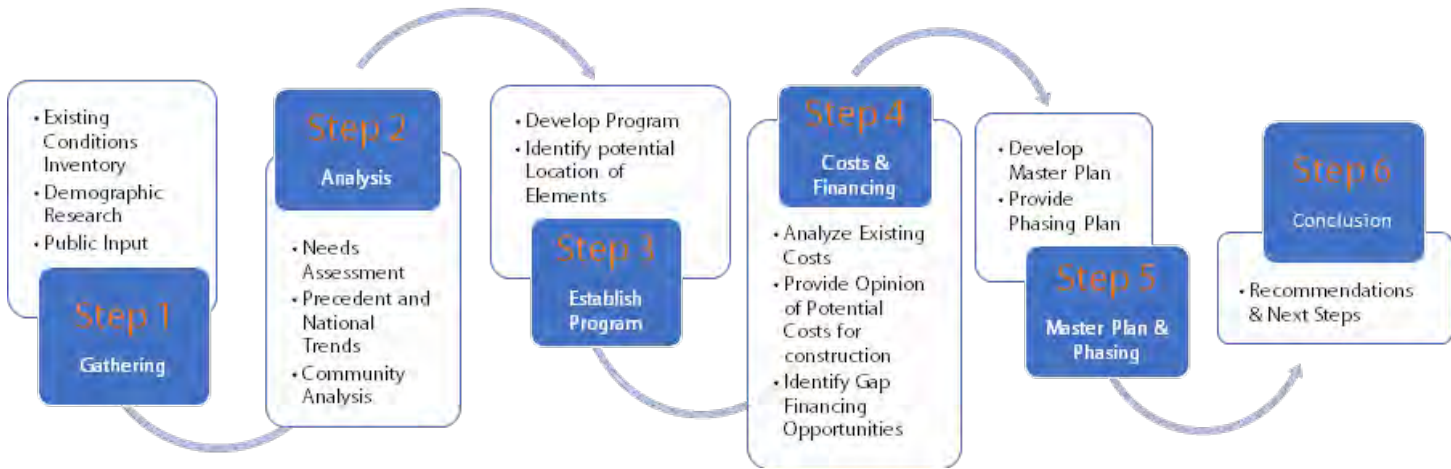


Figure 2.02: Diagram of process for comprehensive master planning.

PURPOSE of COMPREHENSIVE PLAN

The purpose of Parkwood Community Parks and Open Space Comprehensive Plan is to improve the quality and connectivity of the community’s open spaces and park areas for use by its residents. With over 1,000 housing units the demand for open space is greater than the average subdivision. Local needs are not generally being met by city or county-owned parks as none are located in, nor planned in the vicinity of the development. This document is a guide for implementation of elements proposed for the community over the foreseeable future. It will assist the community in developing its vision, and goals enabling the Parkwood Association to adjust with the changing demographics and needs of the community.

The comprehensive plan outlines the districts where improvements will be made. Within these districts, additional park and open space programming elements along with improvements to existing spaces will be identified, then aggregated through a budgeting process.

“A comprehensive planning approach has the potential to harmonize human–environment interactions and mitigate the harmful impacts of urbanization.”

- National Recreation and Park Association

WHY PARK PLANNING?

Park Planning is based around the idea of creating places for community gathering and enjoyment often preserved as outdoor spaces for the health and wellness of a town, city, or community’s residents. Planning provides methods and tools that promote resolution to issues of access and use of shared spaces, and promotes mutually beneficial solutions for users. At a large scale, parks are planned with the intent of helping develop and manage these places incorporating various aspects of the region. These can include regional connections, transportation, demographics, environmental systems, growth impacts analysis, resource management, financing initiatives, user preferences, and access. At a smaller scale, site design becomes an important aspect of developing the layout and construction of all the elements that will be part of an individual park.

By creating a comprehensive park plan, a community makes a commitment to preserve land for its future, meet the current and future needs of its residents, and create safe connections and accessibility to these parks. Parkwood is uniquely situated with 25 percent of the community’s property consisting of parks, lakes, and open space assets distributed throughout the neighborhood, many of which are in close proximity to homes. These spaces can be studied to maximize their access and enhance their use, ultimately putting into balance the portion of developed land and natural landscape. This desired balance speaks to the priorities of Parkwood in creating functional spaces that cater to the sense of community in the neighborhood while remaining mindful of priorities in environmental stewardship.

At Parkwood, a comprehensive planning process that guides the growth, development, and management of the community's parks as well as open space is a process that will be most beneficial to the long-term goals of the neighborhood. This reference book will help Parkwood take the next steps in creating the parks and open spaces of its future.

Parkwood has a much larger service area than a Typical American Subdivision.

Parkwood Community	Typical American Community
Size: +/-575 Acres	Median Size: 24 Acres
Number of Housing Units: 1,006	Median Number of Housing Units: 60

Source: 2014 Development Projects Survey, National Association of Home Builders Economics and Housing Policy Group



Figure 2.03: Existing community garden in the Parkwood community.



“Americans visit their local parks 22 times per year.”

- 2017 NRPA National Survey

TRENDS

Across the US, parks and open space continue to be used and enjoyed at an increasing rate. They provide vibrant healthy environments for people to enjoy. Parks and open space offer places that promote physical and mental health as a unique, personal experience for all ages. It is estimated from the National Recreation and Park Association 2017 survey that on average, Americans visit parks twice a month. **Eighty-five percent of Americans** consider high quality park and recreation amenities as an important factor when they choose a new place to live. **Americans agree (95%) it is important that their local government acts to protect the natural environment by acquiring, constructing, and maintaining local parks, trails, and green spaces.**

Visits to Parks

Most Americans visit parks multiple times per year. Of those that are residents, nearly 50 percent visit parks every week with many visiting park areas daily. Figure 2.04 below indicates the frequency residents visit their local parks. On average, **Americans visit their local parks 22 times per year** with **nearly one in 10 indicate having done so at least 51 times in the past 12 months.**

Number of Americans Last Visit to a Park
(Percentage Distribution)

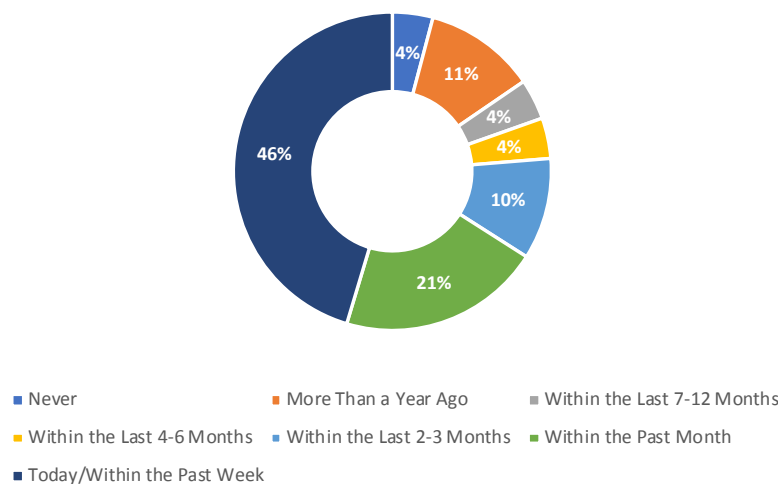


Figure 2.04: Park Visits - 2017 NRPA Engagement with Parks Survey

Nearby Access to Quality Park and Recreation Amenities to where
Americans choose to Live

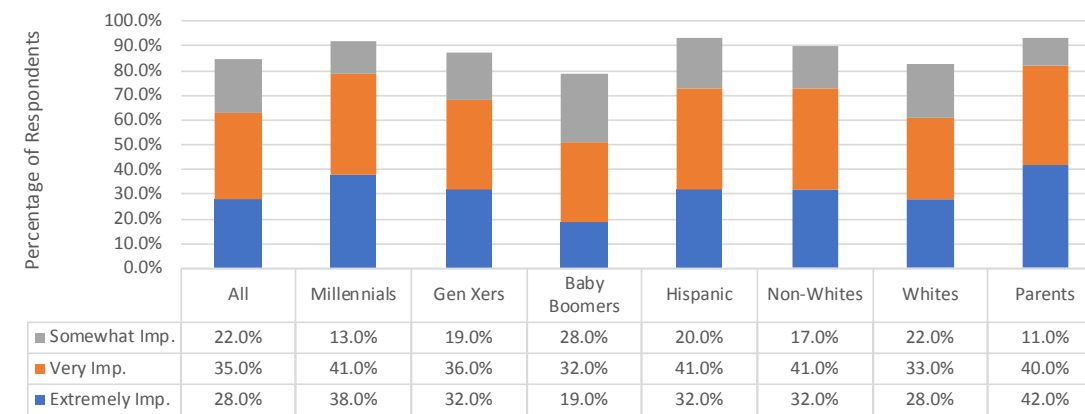


Figure 2.05: Access to Parks is Important for Choosing Where to Live - 2017 NRPA Agency Review Survey

Access to these park spaces is important. **Eighty-five percent of respondents surveyed by the NRPA say the proximity to parks, playgrounds, open space, or recreation centers is important to where they choose to live.** Figure 2.05 below indicates what demographic of persons surveyed found the proximity of parks and recreation facilities an important factor in choosing where to live. Parents and Millennials were the largest groups that felt it was 'Extremely Important' for deciding on where to live. Conversely, the Baby Boomer group was the largest group that felt it was only 'Somewhat Important' factor in the same choice. All groups felt the strongest that proximity to parks and recreation facilities was a 'Very Important' factor in choosing where to live compared to 'Somewhat' or 'Extremely Important'.

Recreational Standards

Municipal Parks and Recreation agencies around the US look to provide these healthy parks, trails, programs, and connections to nature for the benefit of their residents. The typical agency has 9.6 acres of park land for every thousand residents in its jurisdiction, *roughly 1 acre per 100 population*, which is a typical 'rule of thumb' metric often cited as a basis for park service-area planning. In long-range developments, priority should be given to planning recreation areas for neighborhood use in connection

Programs Offered by Park and Recreation Agencies
(Percentage of Agencies)

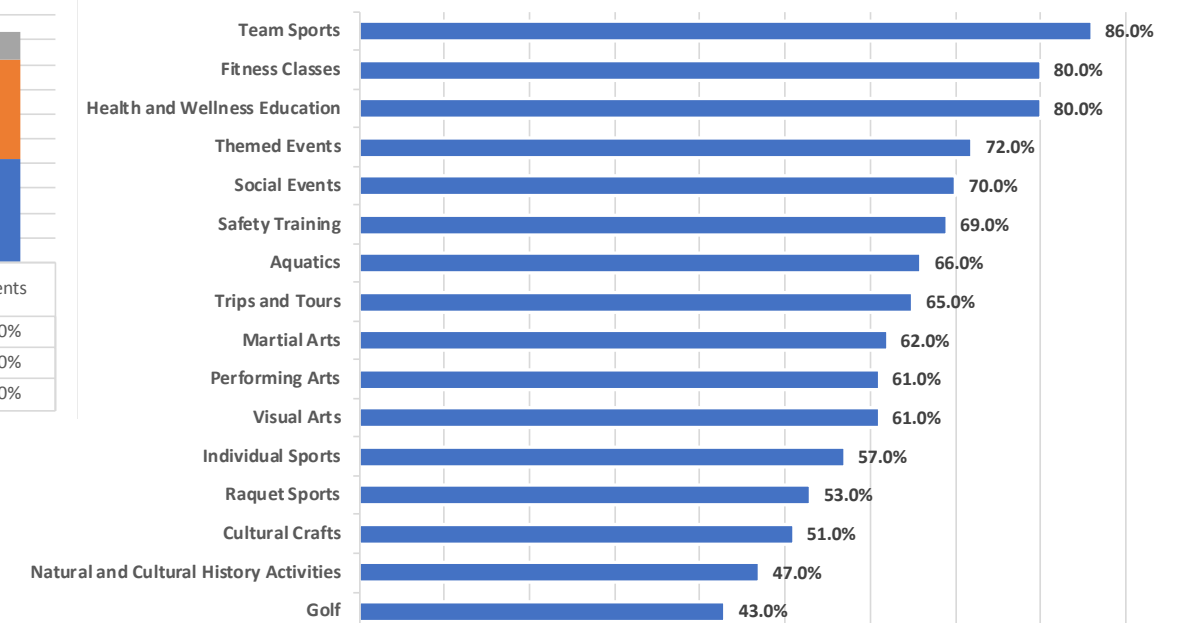


Figure 2.06: Park and Rec. Agency Programming - 2017 NRPA Agency Review Survey

"85% of people think access to Parks and Open Space is important to where they choose to live."

- 2017 NRPA National Survey

with elementary schools. Just as standards for elementary school location call for the school to be within walking distance of the homes it serves, so should neighborhood parks and playgrounds be within walking distance of the families in the neighborhood. Within those parks a variety of activities are created and a number of programming elements are being incorporated.

Park and Recreation Agency Statistics (National)

Figure 2.06 and 2.07 identify the most widely offered programs and facilities municipal park and recreation agencies provide. Team sports, fitness classes, health and wellness, and planned events are the highest incorporated programs implemented in more than 70 percent of all agencies surveyed. Many of these programs serve communities with a larger population but could be incorporated in smaller communities and be potential revenue generators for private park development similar to Parkwood. The most utilized outdoor program elements incorporated by parks and recreation agencies around the country are described in Figure 2.06 on the previous page. Playgrounds, basketball courts, tennis courts, and recreation fields were incorporated by more than 60 percent of the parks

departments surveyed. Dog parks were used by more than 50 percent of agencies with tot lots and community gardens at 46 percent and 45 percent respectively. Most elements surveyed were within larger municipalities yet may be needed and desired by smaller communities with smaller populations.

Experience and Enjoyment

All age groups enjoy their parks with some more than others. Baby Boomers (81 percent) have shown that they are more likely than the younger Millennials (75 percent) to say their favorite experience is to visit their local parks, playgrounds, dog parks, or other open spaces. Millennials tend to be more active than their parent's Baby Boomer generation by playing sports with family and friends (44 percent), visit a swimming pool (44 percent), compete in an organized sports league (25 percent), have children in after school programs (24 percent), and take part in classes at their local recreation center (23 percent). Figure 2.08 below shows what activities park users across the nation are doing the most.

OUTDOOR PARK AND RECREATION FACILITIES		
	Agencies Offering the Facility	Median No. of Res. per Facility
Playgrounds	90.0%	3,633
Basketball Courts	82.4%	7,080
Tennis Courts	71.5%	4,375
Diamond Fields: Baseball - Youth	68.4%	6,453
Diamond Fields: Softball Fields - Adult	64.9%	12,468
Rectangular Fields: Multipurpose	64.9%	12,468
Diamond Fields Softball Fields - Youth	60.1%	8,500
Swimming Pools	52.7%	33,040
Dog Park	52.1%	42,500
Diamond Fields: Baseball - Adult	49.2%	19,226
Totlots	46.4%	12,195
Community Gardens	44.8%	31,000
Rectangular Fields: Soccer - Youth	44.8%	6,199
Rectangular Fields: Soccer - Adult	41.0%	12,226
Rectangular Fields: Football Field	37.0%	26,250
Diamond Fields: Tee-ball	34.5%	15,439
Multi-use Courts: Basketball, Volleyball	32.5%	15,250
Ice Rink	17.1%	16,572
Multi-prupose Synthetic Field	10.9%	34,242
Rectangular Fields: Lacrosse	10.3%	27,332
Rectangular Fields: Cricket	8.5%	147,500
Overlay Field	5.1%	10,820
Rectangular Field: Field Hockey	3.7%	203
Total		

Figure 2.07: Outdoor Park & Rec. Facilities - 2017 NRPA Agency Review Survey

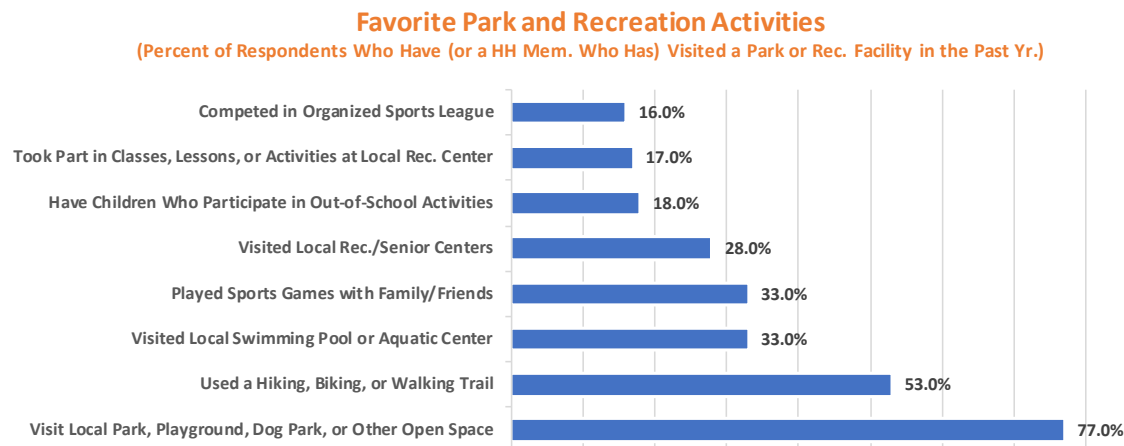


Figure 2.08: Favorite Park Recreation Activities - 2017 NRPA Americans Engagement with Parks Survey

"Americans say they personally benefit from having parks in their community even if they don't visit them."

- 2017 NRPA National Survey

Park and Open Space usage is used widely among diverse demographic groups. Those who are more likely to go to their local park are:

- >> **Younger:** 79 percent of survey respondents between the ages of 21 - 35 compared to 57 percent representing those between the ages of 65 - 75.
- >> **Wealthier:** 80 percent of survey respondents earning more than \$80,000 per year versus a 60 percent difference for those who earn less than \$40,000 per year.
- >> **Large Households (HH):** 87 percent of survey respondents living in homes with five or more people versus 60 percent of respondents who live alone.

It was also found in the NRPA's 2017 national survey that 97 percent of park users say that they benefit from those areas. Amazingly, 80 percent of non-park-users mentioned that their communities benefit from parks even though they do not use them. This goes to show that the benefits of parks to users in their community goes far beyond people's physical connection to the parks. Figure 2.09 below details various demographic groups perceptions of the benefits of parks in their communities based on a percentage of whether they perceive them to be greatly beneficial or somewhat beneficial.

Multicultural/Ethnic/Racial Programming

Community parks and organizations supporting them provide areas of support for disadvantaged individuals or groups. These parks, open spaces, activities, and community programs provide inclusion and volunteer positions for those certain individuals while encouraging social engagement. Identified in Figure 2.10, Park and Recreation agencies provide programming options for multicultural groups. Community gardens and culturally sensitive programming made up 80 percent of all program options for this group. These can often be combined with facilities used for other demographic groups for such things as heritage or holiday celebrations as well as health and wellness events for various cultures.

Older Adult Programming

Older adults, like other demographic groups that use parks, open space, recreation facilities, and desire a connection with nature. Promoting health and fitness as well as social engagement are ways to keep older adults healthy and active. Many Parks and Recreation agencies across the nation provide various programs and facilities used by this cohort. As listed below in Figure 2.11, most agencies incorporate exercise classes as part of their programming. Field trips, art classes, volunteer opportunities, special events, and group walks were incorporated by more than 50 percent of Parks and Recreation Agencies.

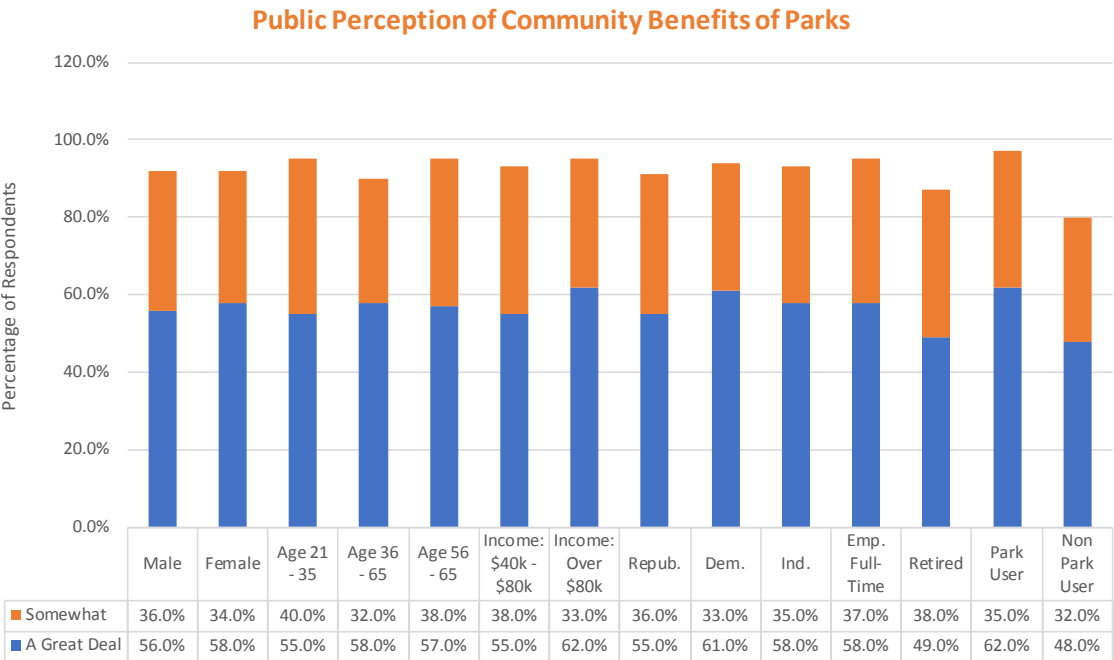


Figure 2.09: American Broad-Based Support for Local Parks and Services Survey - 2017 NRPA Agency Review Survey

Opportunities for Multicultural/Ethnic/Racial Communities

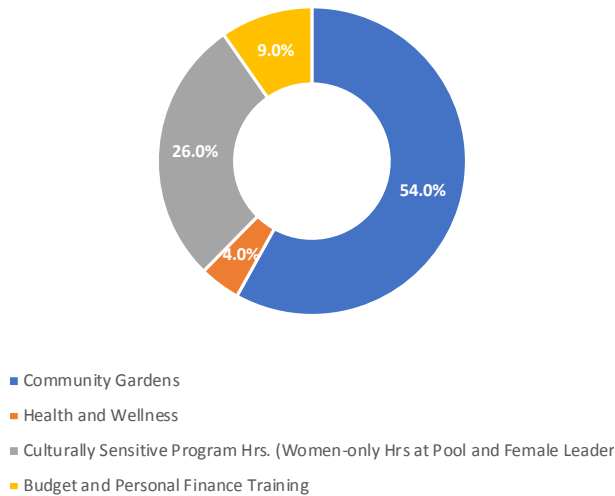


Figure 2.10: Parks for Inclusion - 2017 NRPA Agency Review Survey

Activities Parks & Rec. Agencies Offer to Older Adults in the Community (Percentage of Agencies w/Older Adult Offerings)

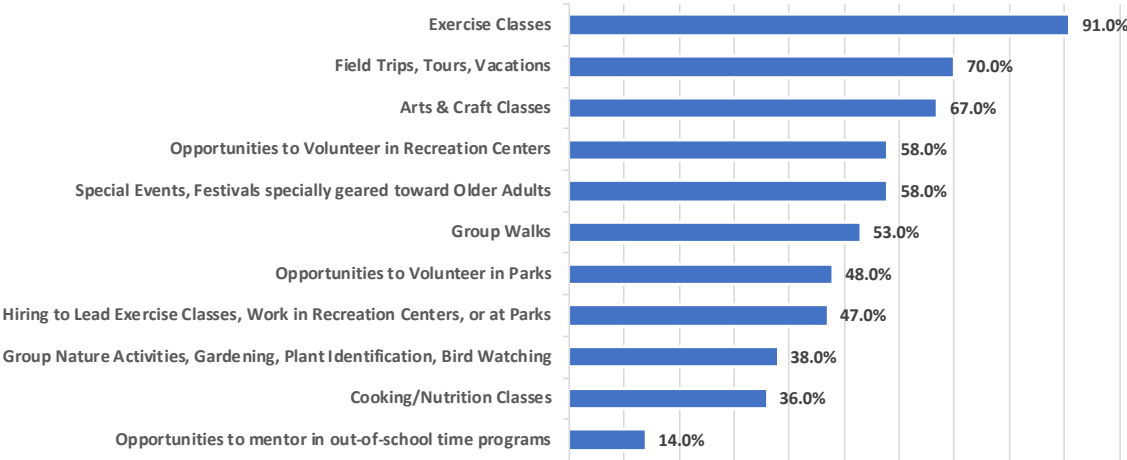


Figure 2.11: Healthy Aging in Parks and Recreation - 2017 NRPA Agency Review Survey



Figure 2.12: Existing open area and playground in the Parkwood community.



3 TIONS

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Existing Conditions:
Bicycle Infrastructure
Sidewalks
Trails and Footpaths
Slopes and Drainage
Streams, and Waterways
Large and Specimen Trees
Community Amenities
Districts

Trends & Analysis:

Community Analysis

Demographics

CONTEXT

REGIONAL CONTEXT

The community of Parkwood is located in the southern part of Durham one mile south of Interstate 40 (I-40) surrounded by residential communities and more rural landscapes at the edge of the Durham County jurisdiction line.

Though once relatively remote, Durham and the region surrounding Parkwood have grown rapidly in the past decades. During this time, the growth of the Research Triangle Park along with many of the universities in the area have helped sustain economic growth for many of the cities and towns nearby. Recent residential and commercial development surrounding Parkwood has been ushered in by the construction of Southpoint Mall, 2.5 miles west. Parkwood benefits from the close proximity of employment centers such as the Research Triangle Park (5 mi. East), Duke University (9.5 mi. North), UNC Chapel Hill (8.5 mi. West), with downtown Durham, Cary, Chapel Hill, and Raleigh all within a 25-minute drive. Additionally, Raleigh-Durham International Airport (RDU), averaging 400 daily departures to over 50 passenger destinations, is a 14-minute drive east.

Regional recreational opportunities abound for Parkwood residents. Located 5.5 miles to the southwest of Parkwood is Jordan Lake, a principle drinking water supply for Cary and Morrisville and supplemental water supply for Durham and other towns or water utilities, as well as the largest recreational body of water in the region. Jordan lake has 180 miles of shoreline and is dimpled with boat launches and camping locations operated by state management agencies. Also within a 45-minute drive is Falls Lake, Raleigh's primary source of drinking water, boating and recreation including camping and a diverse trail network.

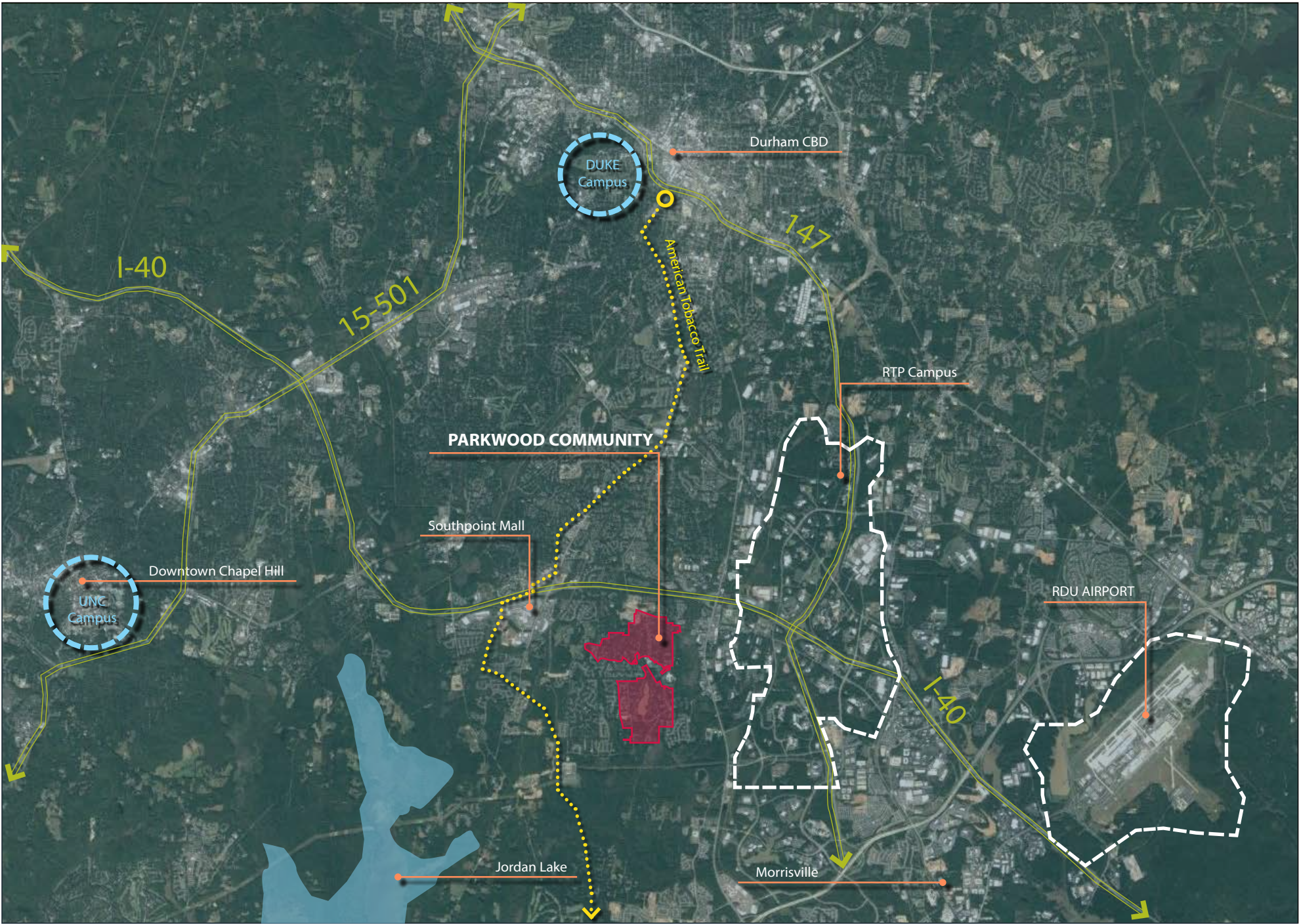


Figure 3.01: Map of regional context surrounding Parkwood.

REGIONAL PARK SYSTEM

The parks and naturally preserved forest areas supporting the region are diverse and maintained by a host of various organizations. The largest of these may be Duke Forest (7,060 acres) near Duke campus between I-40 and I-85, a 20-minute drive north. Used for research and teaching, the forest offers visitors hiking trails along New Hope Creek, one of the region's oldest streams. Umstead State Park, a 5,600-acre wooded park, situated just southeast of Raleigh-Durham International Airport, boasts a network of hiking, biking, and jogging trails along with camping and fishing opportunities. Similar to Umstead Park, Eno River State Park (4,200 acres), located north of Duke Forest, has hiking trails (30 mi.) canoe launches, and picnic areas. The park borders nine miles of the region's oldest river and showcases historical structures from early settlers from the mid-1700s.

Durham

The City of Durham manages over 65 parks (1,830 acres) accommodating many of the athletic leagues and events with an annual operating budget over \$10.5M. The closest city park to Parkwood is CM Herndon Park located just three minutes west of the neighborhood. Amenities include ball fields, playgrounds, access to the American Tobacco Trail (ATT), restrooms, and parking. The ATT is an expanding 22+ mile rails-to-trails project crossing through three counties and connecting the region to Downtown Durham. It is considered one of the great regional elements drawing thousands of users monthly.

Raleigh

Raleigh and surrounding Wake County have around 111 public parks and gardens for use. Many of these parks are neighborhood parks but contain various recreational fields hosting events and recreational league sports. The closest of these parks to Parkwood is Thomas Brooks Park with ballfields and playgrounds. Another, Harris Lake County Park, is a 680-acre park 20 minutes south of Parkwood. Amenities include disc golf, hiking and biking trails, boating facilities, picnic sites, and gardens.

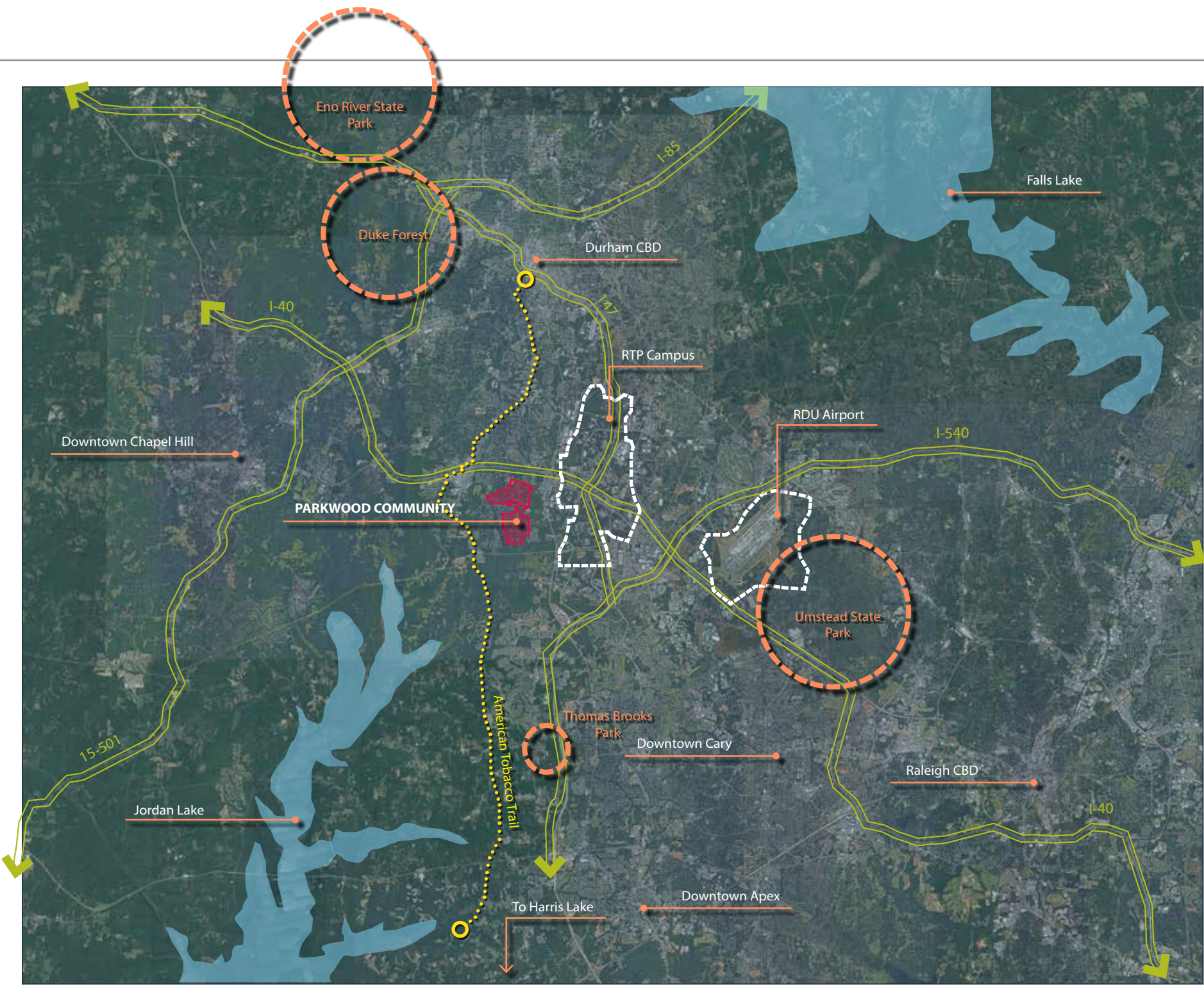


Figure 3.02: Map of regional context surrounding Parkwood.

EXISTING CONDITIONS

BICYCLE INFRASTRUCTURE

Parkwood currently has four bike lanes within the community; two running on either side of Revere Road and two on either side of Sedwick Road running to the Sedwick Park. These two roads are the predominant connectors within the community. Posted speed limits on both roads are 25 mph with traffic typically driving between 35 - 45 mph. Due to these more heavily trafficked roads, the bicycle lanes are a safety benefit for Parkwood residents. In addition, the low-traffic design of the neighborhood allows for safe bicycle passage throughout the neighborhood.

From the community input phase of the project, a majority of respondents from the community liked a simple paved lane at the edge of the road (Figure 3.03) while a second choice favored by residents suggested a bicycle lane separated by a striped strip separating vehicle traffic from bicyclists (Figure 3.04). The community meetings also showed residents' interest in providing a bicycle lane along NC 54. National statistics show in Figure 3.05 that when bicycle lanes are within a quarter mile of a resident's home, they are more likely to use them based on frequency. Currently, the City of Durham has no plans identified in the Durham Trails and Greenways Master Plan (2011) to provide bicycle access along this route, but increased development along NC 54 could change this approach. In addition, Parkwood may want to consider adding additional bike lanes along Sedwick road to connect with Grandale Drive and the existing bike lane on Revere Road that gives cyclists access to Greenwood Shopping Center, which hosts a year-round Saturday farmers' market.

There are a number of partners that include departments within the city, initiatives, groups, and programs that would be worth engaging to help improve conditions for bicyclists in Parkwood. These groups (listed below) may be able to help with petitioning and lobbying efforts to improve bicycle safety and routes for residents based on Parkwood's long term cycling goals.

Potential Partnerships

- City of Durham
- North Carolina Department of Transportation
- Durham Bicycle and Pedestrian Advisory Commission
- Watch For Me NC
- Bike Durham
- Bicycle Friendly Community
- Durham Bicycle Boulevards Initiative



Figure 3.03: Standard Bike Lane



Figure 3.04: Separated Bike Lane

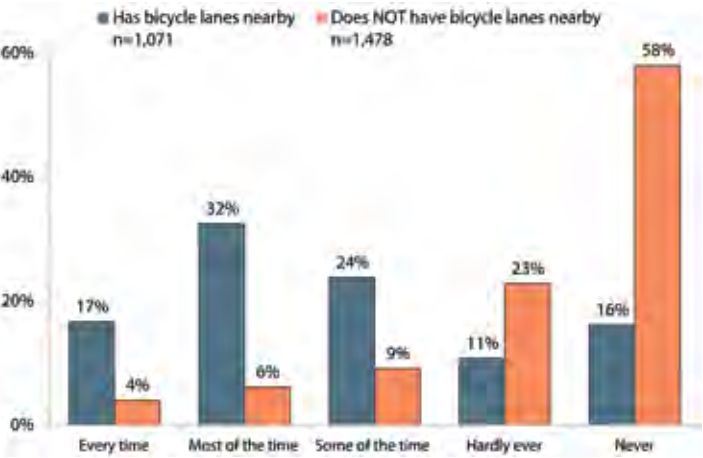


Figure 3.05: Frequency of Bicycle Lane Use in Neighborhoods - 2012 National Survey of Bicyclists and Pedestrian Attitudes & Behavior - NHTSA



Figure 3.06: Parkwood Bike Lane Map

SIDEWALKS

Parkwood's sidewalks are predominantly located on four main roads within the community. Revere, Clermont, Euclid, and Blanchard Road have sidewalks that run along one side of the road. Most of the smaller loop roads and cul-de-sacs do not have sidewalks; however, the low-traffic design of the neighborhood allows for easy pedestrian access between streets.

Revere Road has a single sidewalk on the west side of the road until it switches sides at Clermont Road. Sedwick does not have a sidewalk on either side. The Durham Walks! Pedestrian Plan, adopted in 2006, has long range plans to provide sidewalks along NC 54, Sedwick Road, Seaton Road, and Grandale Drive. Both NC 54 and Sedwick Road are considered 'Second Tier' projects in their long range plan. In 2008, Parkwood's petition to install a sidewalk along Sedwick Road was initially approved by City Council, and Parkwood petitioned in 2014 to add a connecting sidewalk segment on the east side of Grandale. Unfortunately, these petitions were rescinded in early 2015 due to the city reappropriating its funds. These projects could be investigated again to see where they are in priority under the city's construction plans and could be petitioned again as well. As noted by national statistics in Figure 3.07, sidewalks are used extensively when available.

Parkwood residents desire sidewalks along NC 54, along the shopping center's frontage to Revere Road, and along Sedwick Road. Aside from the other two projects, the Revere Road frontage sidewalk connection could be one project that might be able to be discussed as a joint venture project between the Parkwood HOA, the shopping center property owner, and the city.

Residents responded with a preference for a standard concrete sidewalk (Figure 3.08) with standard striped crossings (Figure 3.09). This was followed by residents' second choice of sidewalks with a planted stormwater buffer between the street and sidewalk (Figure 3.10). Crosswalks with cones and signs in the street were the second choice of crossing options based on community outreach (Figure 3.11).

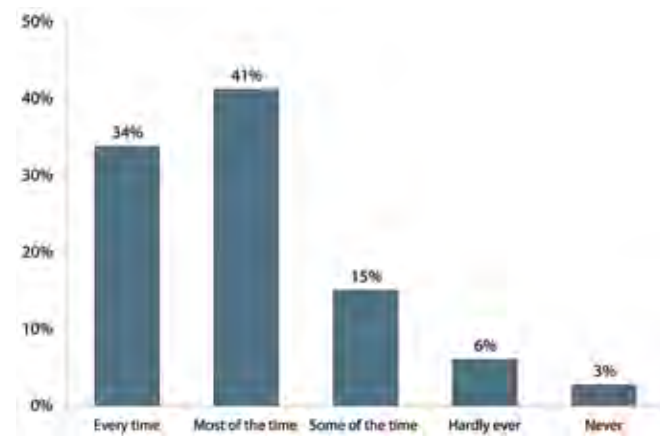


Figure 3.07: Frequency of Sidewalk Use - 2012 National Survey of Bicyclists and Pedestrian Attitudes & Behavior - NHTSA



Figure 3.08: Standard Sidewalk



Figure 3.09: Standard Crosswalk



Figure 3.10: Planted Buffer and Sidewalk



Figure 3.11: Crosswalk with Cones

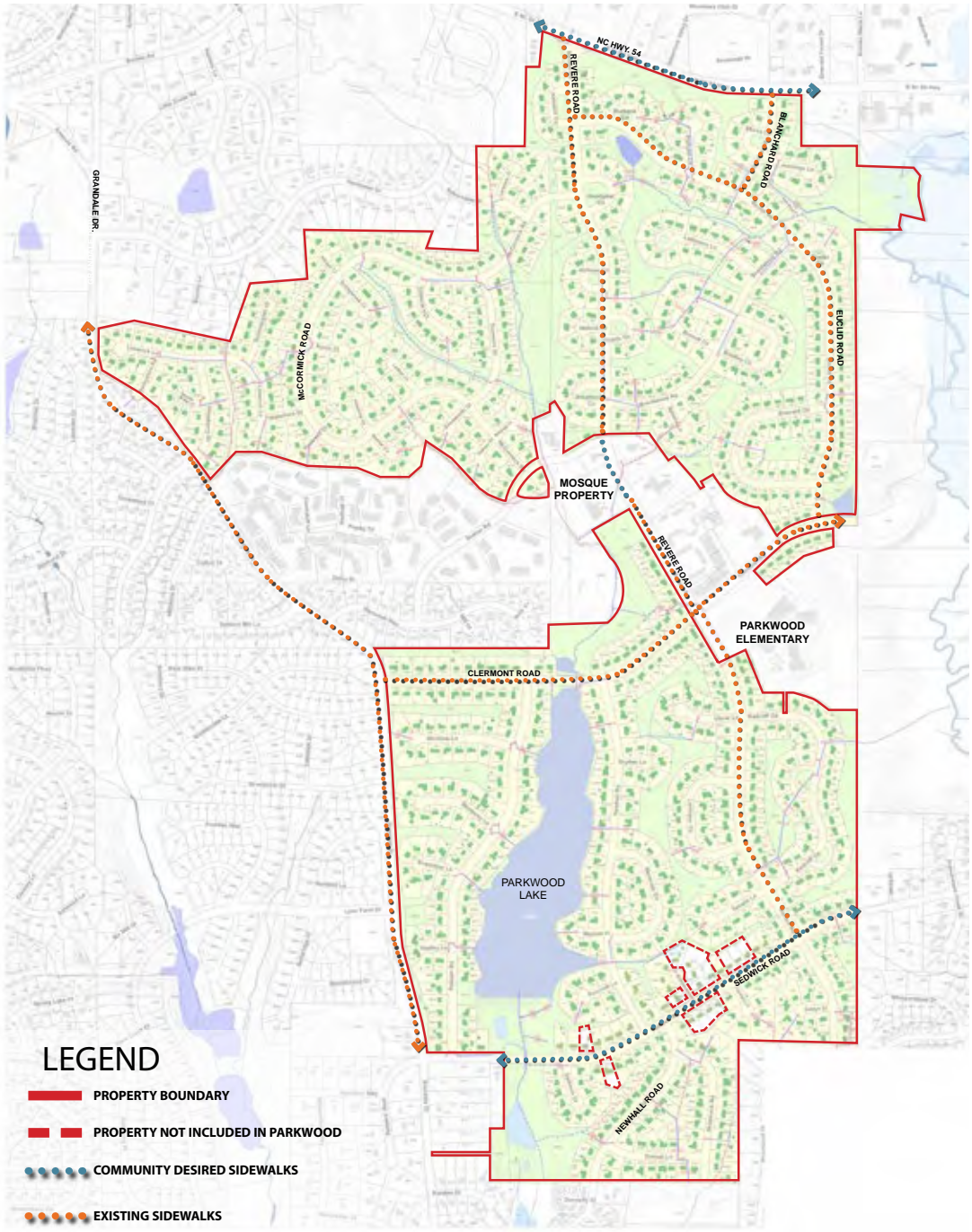


Figure 3.12: Map of existing and proposed sidewalks.

TRAILS and FOOTPATHS

There are several footpaths and trails scattered throughout the Parkwood community. In the northern portion of the property, the Euclid and Brentwood Trails connect Euclid Park with Hidden Park providing access points along Revere and Brentwood Roads. From Euclid Pond, the trail winds south through a forested area and bamboo grove opening to the north end of the open space surrounding Hidden Park. Leaving Hidden Park to the east, Brentwood trail winds through another section of forest, crossing a small bridge, then meandering through a bamboo grove before exiting at the Brentwood Road (Entrance #1). Exiting Hidden Park to the south, a trail enters the forest once again before moving back through a manicured open space eventually exiting to Brentwood Entrance #2.

The next established trail moving south is the trail connecting the baseball field to Parkwood Lake. This trail has two sections, one within the property boundary to the east controlled by the HOA and another section (not marked) following the creek to the west of the property. The Baseball Field Trail is accessed behind the first base line dugout before moving into the forest where it crosses small streams. It then exits the forest at Clermont Road across from Parkwood Lake.

Another trail system is the Revere Oasis Trails. These trails are located between Revere and Newhall Roads winding though the common space behind the houses along Newhall Road, Larkspur Circle, Montclair Circle, and Temple Lane. The trail system connects Newhall Road with access points along Revere Road. At the Revere Road Entrance #1, there is a nondescript access point running adjacent to the driveway before entering a bamboo grove. After the bamboo grove, the trail meanders through a connected forest and over a small creek with a bridge behind Larkspur Circle. This section of trail is fairly long and provides a nice sense of enclosure removed from the surrounding neighborhood. It eventually empties into a well-maintained open space north of Temple Lane. Moving east through the space, a small path exits back onto Revere Road at the second entrance location. From the open space heading southwest, the trail moves through a grove of pine trees at a pinch point where Larkspur Circle backs up to Montclair Circle then entering a small open space dotted with a few pine trees. A path crosses a small footbridge adjacent to the backyard of lot 120 and 121 located at the end of Temple Lane. A large tree on lot 120 draws your eye but is on private property and you must follow the path to the south east which will eventually connect you with entrance #3 on Revere Road. Turning around and crossing back over the footbridge into the small open space, the other fork of the trail heads west along the creek behind the fences of the properties along Montclair Circle. The trail crosses a bridge over the small creek to the south side before exiting up to the Newhall Road entrance.



Figure 3.13: Trail leaving Euclid Park



Figure 3.14: Hidden Park Open Trail



Figure 3.15: Revere Oasis Trail



Figure 3.16: Revere Oasis Trail

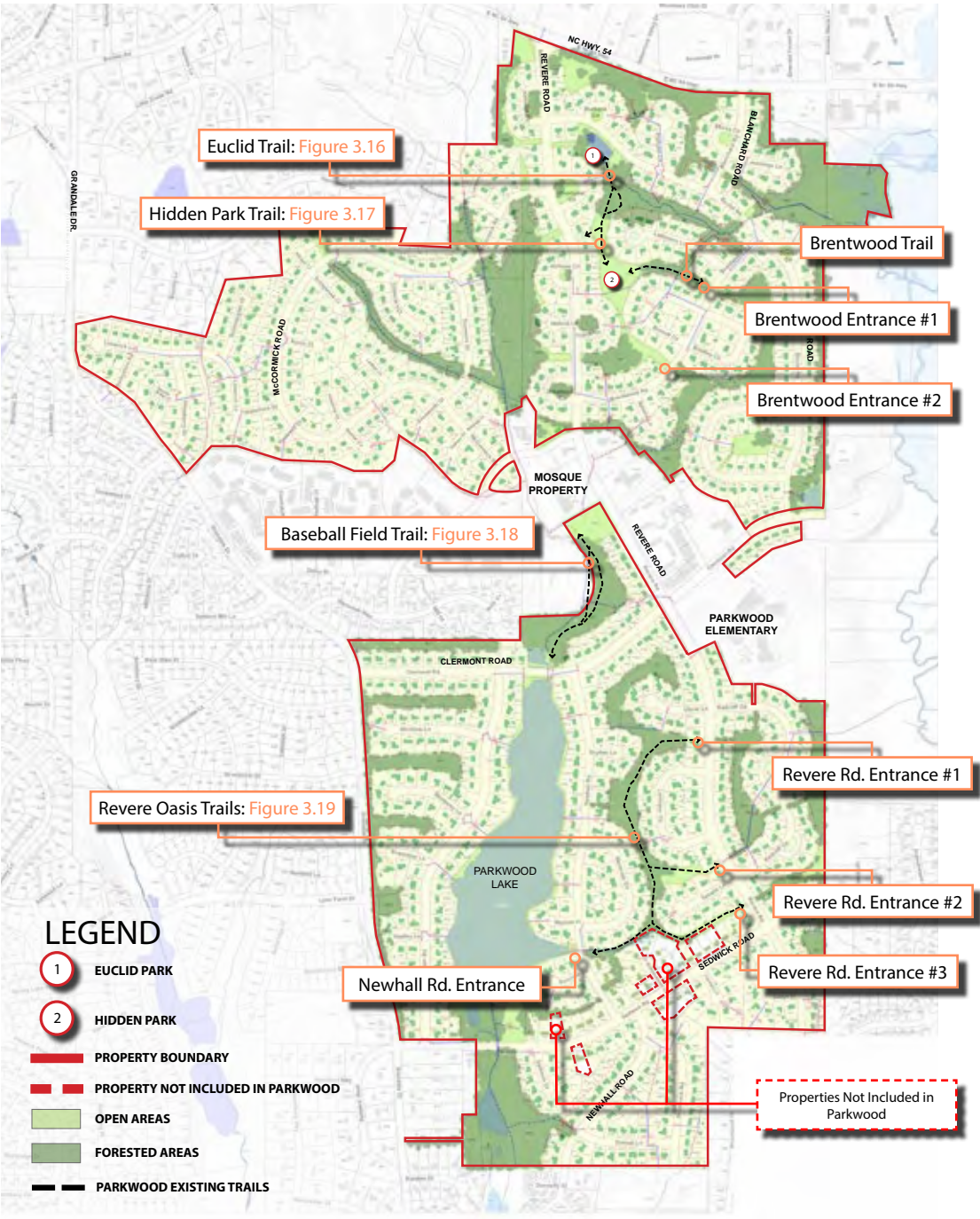


Figure 3.17: Parkwood Trails Map

SLOPES and DRAINAGE

Elevation Map (Figure 3.18)

The Parkwood neighborhood has both elevated ridges and lowland areas across the site. Mainly the upland areas sit in the northwest corners of the property near the Tot Lot and where Revere Road meets NC 54. From these high points, the elevation drops 140+ feet through natural drainage corridors and down hillsides. The very lowest points on the property are in the northeast corner where a stream exits onto the over-bank floodplain of Northeast Creek. The other low areas are located at the southern edge of the property where Parkwood Lake drains under Sedwick Road into a flood-prone bottomland forest.

Slope Analysis Map (Figure 3.19)

A slope analysis helps determine areas that are more suitable for development over others. Steeper slopes (typically >30%) can be more costly to build on, increase erosion, harder to establish vegetation, and prove more challenging to maintain. Most slopes at Parkwood are under 20 percent. A few locations, mostly on homeowner property and Parkwood Lake's dam, will show small areas of slopes between 20-30 percent. Parkwood's parks and open space mainly fall within slopes of 0-5 percent (light yellow) and 5-10 percent (light orange). Under these slope conditions, most ADA requirements can be met, with the areas in light yellow not requiring hand rails.

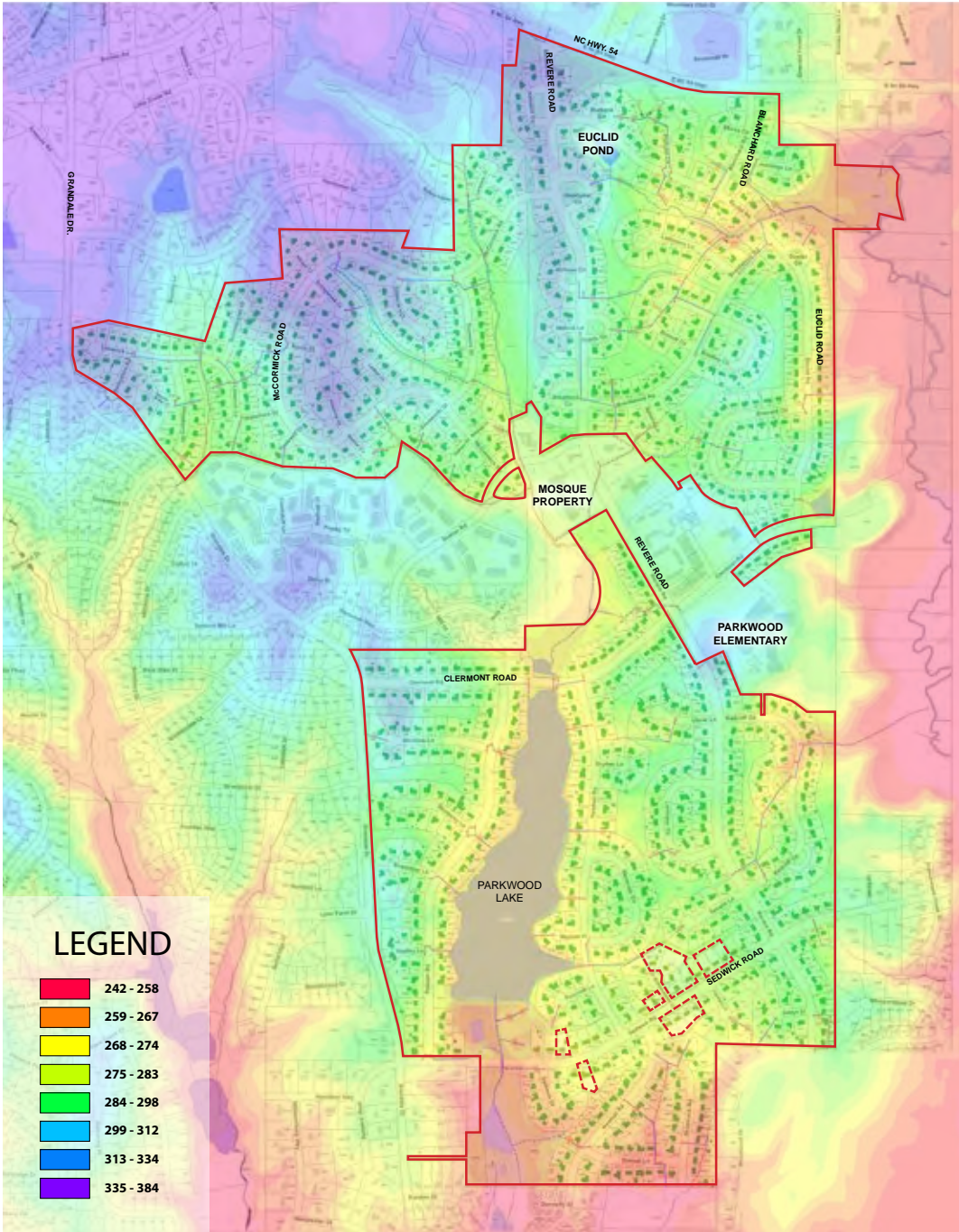


Figure 3.18: Elevation Relief Map

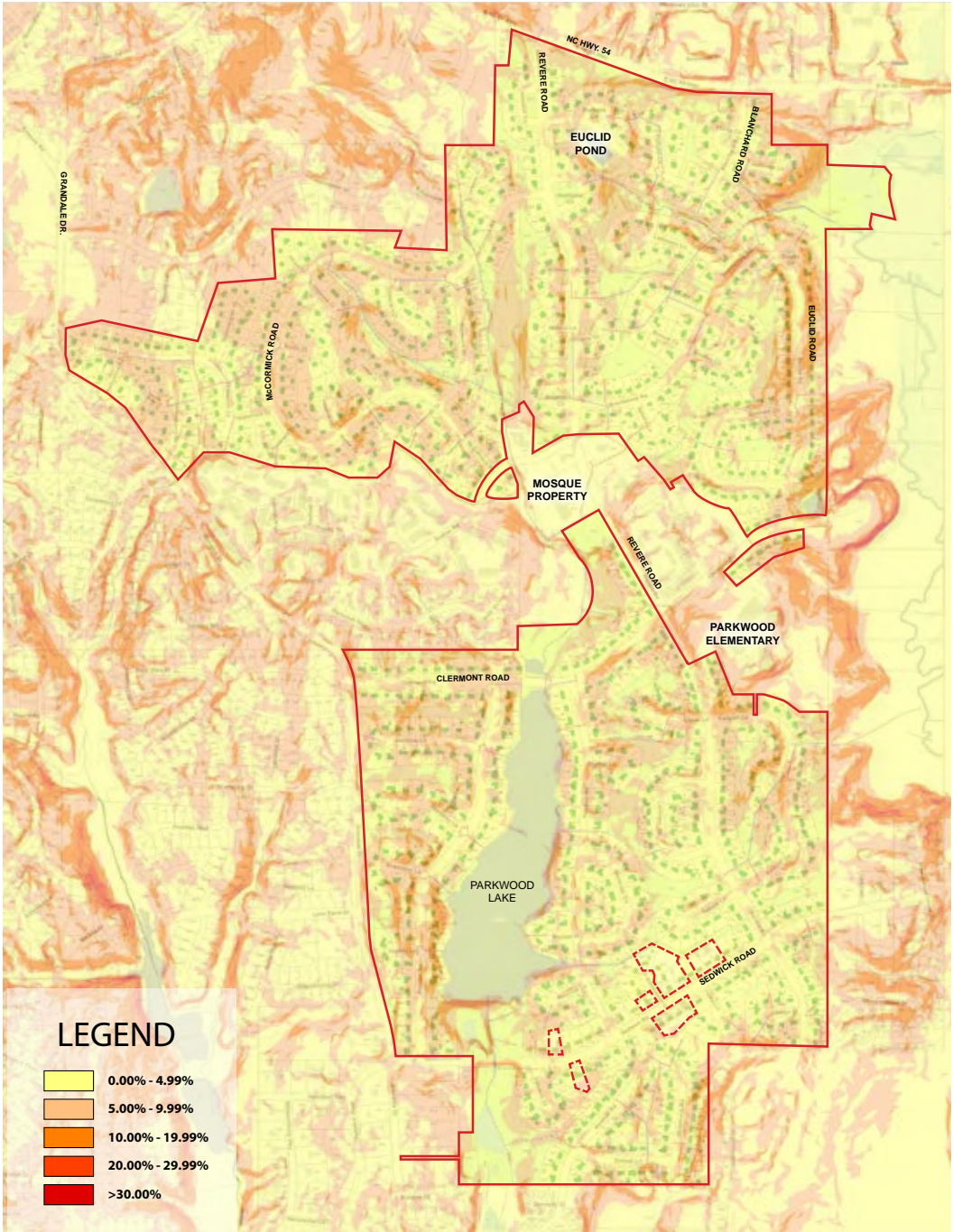


Figure 3.19: Slope Analysis Map

LAKES

Parkwood has a number of water bodies found throughout the community. They include Parkwood Lake, Euclid Pond, and Emerald Pond. The largest of these features, Parkwood Lake has a surface area of more than 27 acres providing recreational enjoyment and visual beauty to the community. Both the north and south ends of the lake provide public access opportunities for fishing and boating while the east and west sides are lined by private property. One additional public access point is located off Newhall Road at the southeast end of the lake near the dam. Most of the edges along the private property have a manicured edge with groups of trees and some plants. Some of these edges have an armored edge either created by vertical planks or rip rap. There are no protected natural edges along the lake. Both the north and south ends of the lake are maintained for walking, fishing, and viewing pleasure. Boat access is mainly used by homeowners with access to the lake. Although the public edges allow access, there is potential for increased use with clear communication about how to access the lake.

Two other water bodies in Parkwood are Euclid Pond, found off Euclid Road in the northern part of the property, and the other is Emerald Pond found at the intersection of Euclid and Clermont roads near the Parkwood Swim Club. Both ponds have corresponding recreational amenities that could be expanded upon for the benefit of Parkwood residents. The Parkwood Association is taking steps to ensure that these water bodies remain viable for recreational use in the future.

STREAMS and WATERWAYS

The streams found in Parkwood are ephemeral, meaning they flow during large storm events and can have lasting pools of water. The largest of these streams begins in the northwest corner just beyond the boundaries of the Parkwood Association property and flows south, parallel to Revere Road. The stream flows south behind Parkwood's shopping center before flowing into a wetland area at the head of the lake. This stream is the main tributary to Parkwood Lake entering at the north end. Other streams shown on the map in Figure 3.20 drain other portions of the community. Euclid Pond, at the northeast section of the property, forms a stream that eventually enters Northeast Creek bordering the eastern portion of the site. To the west, a smaller stream draining neighborhoods north of the property briefly traverses across a western portion of the site and exits under Grandale Drive. At the southern end, Parkwood Lake is drained by the same stream that formed it which empties into a lowland area under Sedwick Road before entering Northeast Creek south of the property. Lastly, a small stream starts near the intersection of Sedwick and Revere Roads behind Deblyn Court and drains the southeast portion of the property into Northeast Creek off the property.

Summary

These streams, ponds, and lakes are an important lifeline supporting the health of many animals, forests, and watersheds found in the region. The water flowing from this property eventually enters Jordan Lake, which provides either drinking or supplemental water for the Towns of Cary and Apex, Chatham County, City of Durham, Town of Holly Springs, Town of Morrisville, Orange County, Orange Water & Sewer Authority, and Wake County - RTP South. It is important to consider the health of these water systems not only for their uses by people and municipalities but also for the well-being of the plants and animals that live here, including the enjoyment it provides to the parks and open spaces found throughout Parkwood.

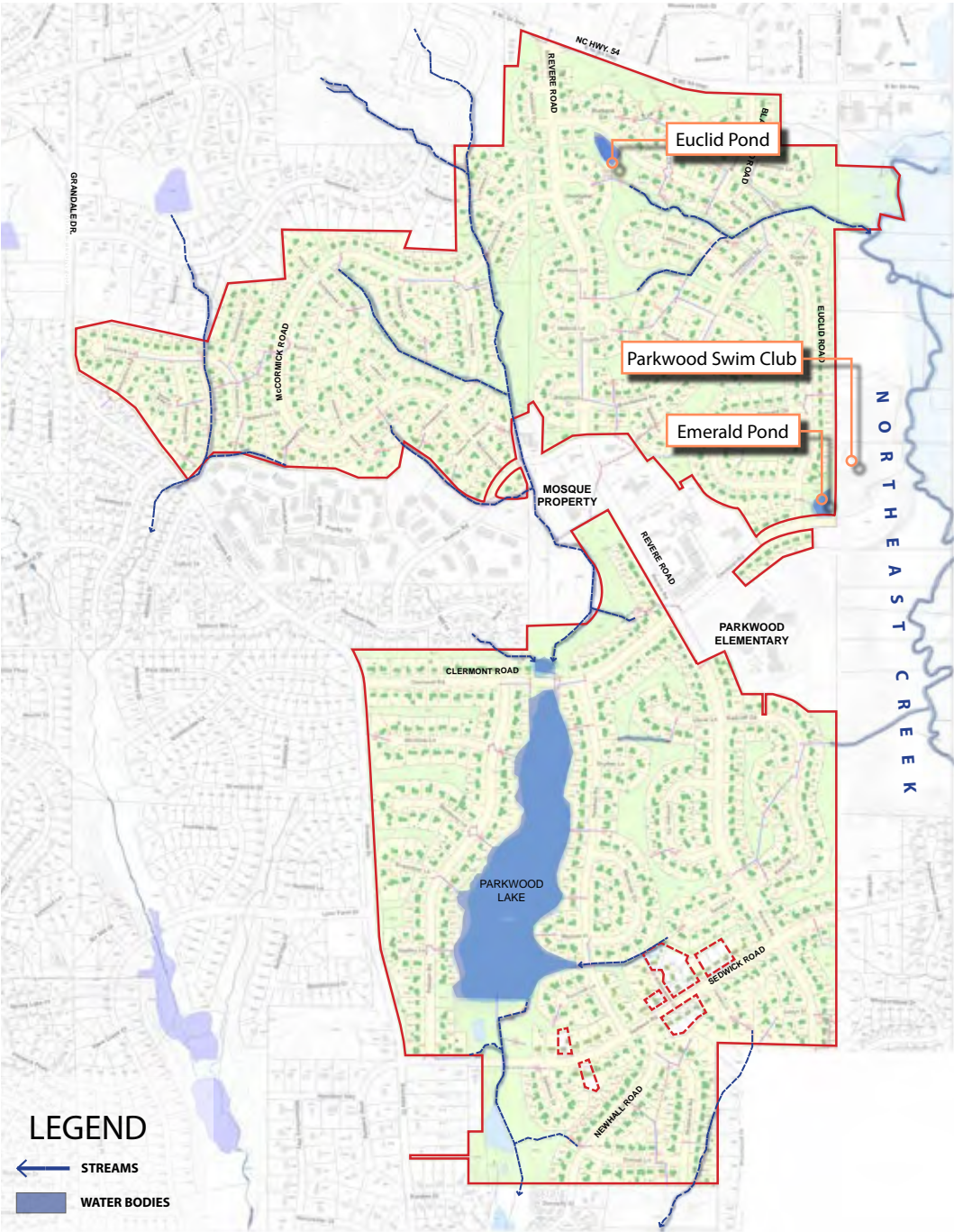


Figure 3.20: Parkwood Lakes and Streams Map



Figure 3.21: Existing conditions of water bodies in the Parkwood community.

TREE COVERAGE

Tree coverage across the site is fairly significant due to Parkwood being developed on predominantly forested hillsides. The northern part of Revere Road had a few farmsteads with planted fields that were maintained up until they were sold to build Parkwood. When Parkwood was built, lots were cleared then replanted with trees. Those replanted trees have matured covering much of the deforested home sites. Undeveloped land still preserves many of the trees existing before Parkwood and has been maintained as open space. Figure 3.22 shows the extent of current tree coverage across the entire property based on aerial footage while Figure 3.23 shows the undeveloped land (open space) with forested tree canopy (dark green) and maintained grass areas (light green).

SPECIMEN TREES

Parkwood is home to a number of large trees. Figure 3.23 identifies two trees of importance. The first is in the north central portion of Parkwood located on community land in one of the forested areas before Parkwood was developed. This tree is a large White Ash (*Fraxinus americana*) and was identified as one of Durham's Finest Trees (ranked #3) by Durham's Master Gardener Committee. This tree is located amongst many other of similar age in an old hardwood forest identified in yellow. The other important tree identified as one of Durham's Finest is an Eastern Cottonwood (*Populus deltoides*). This tree sits behind shopping center near the ballfield on private property. Both trees are jewels of the community and should be protected for future enjoyment.



Figure 3.22: Parkwood Aerial Map showing Tree Coverage



Figure 3.23: Parkwood Open Space Tree Canopy and Maintained Grass Areas



One of several center island spaces off Revere Road



Parkwood Lake



Hidden Park



Trail near Ball Field



One of several center island spaces off Revere Road



Sedwick Park



Trail entrance at Hidden Park



Bamboo grove near Hidden Park

Figure 3.24: Images of Parkwood playgrounds and grassy areas.

PARKS, OPEN SPACE, and COMMUNITY AMENITIES

Overview

Parks and Opens Space can be found throughout the community of Parkwood. The property has a total of 143 acres of land that includes parks, lakes, ponds, stream corridors, and forested areas not owned by any homeowner. Within the gross total, the Parkwood Association currently has five (5) park areas, one (1) ballfield park, four (4) playgrounds, and one (1) off-site playground at the baseball field.

PARKS

Euclid Pond Park, located off of Euclid Road near the entrance to Parkwood off Revere Road, is a 2.23-acre park that includes a .06-acre pond, playground, and five (5) parking spaces in a gravel lot. Euclid Pond is a highly desired park in the community, receiving a significant amount of use. The playground at Euclid Pond is fairly new with code required safety surfacing around the playground. The park has benches and old picnic sites where tables, grills, and seating used to exist. Euclid Pond also has one trash receptacle. Mature trees and some grass areas surround the pond with shrubs and aquatic plants.

Connected by trails, **Hidden Park** (2.73 acres) is a large open space with a playground behind homes along Revere Road, Lattimore Lane, and Sinnott Circle. The park is surround by maintained lawn areas with large trees grouped along the perimeter of the space. Hidden park has no direct path or dedicated parking.

The **Tot Lot** (0.29 acres), located off McCormick Road in the northwest portion of the Parkwood Association property, is an enclosed playground designed mainly for children between the ages of two and five. Heavily mulched, the playground has a small playset, kid's house, swingset, park table with benches, a bench swing, trash receptacle, and small plastic animals to climb on. The Tot Lot also is equipped with a lamp post on the west side. Towards the rear of the park, a portion of forest is located inside the fenceline that has a section in need of repair.

Emerald Pond Park is a small park (1.46 acres) located at the east end of Clermont Road. The park was created on hillside slopes surrounded by a pond adjacent to the Parkwood Community Pool. The park has three benches, a trash receptacle, and an old picnic table pad where grilling and seating used to occur. Many mature oaks and pines are located within the park while multiple views offer users enjoyable places to relax.

As the only established park in the southern half of Parkwood, **Sedwick Park** (2.19 acres) is located below the Parkwood Lake dam and is the largest and most popular park in the community. The park contains a playground with multiple play structures, a swing set, a repurposed balance beam, basketball court, four benches, two trash receptacles, and 12 parking spaces in a gravel parking lot. The park is an open grass area bordered by mature growth trees to the east and west with Parkwood Lake to the north and Sedwick Road to the south. Sedwick Park has a large grass embankment at the park's north end. The lake's outflow runs slowly through a meandering creek bed under Sedwick Road and eventually flows into Northeast Creek south of the property.

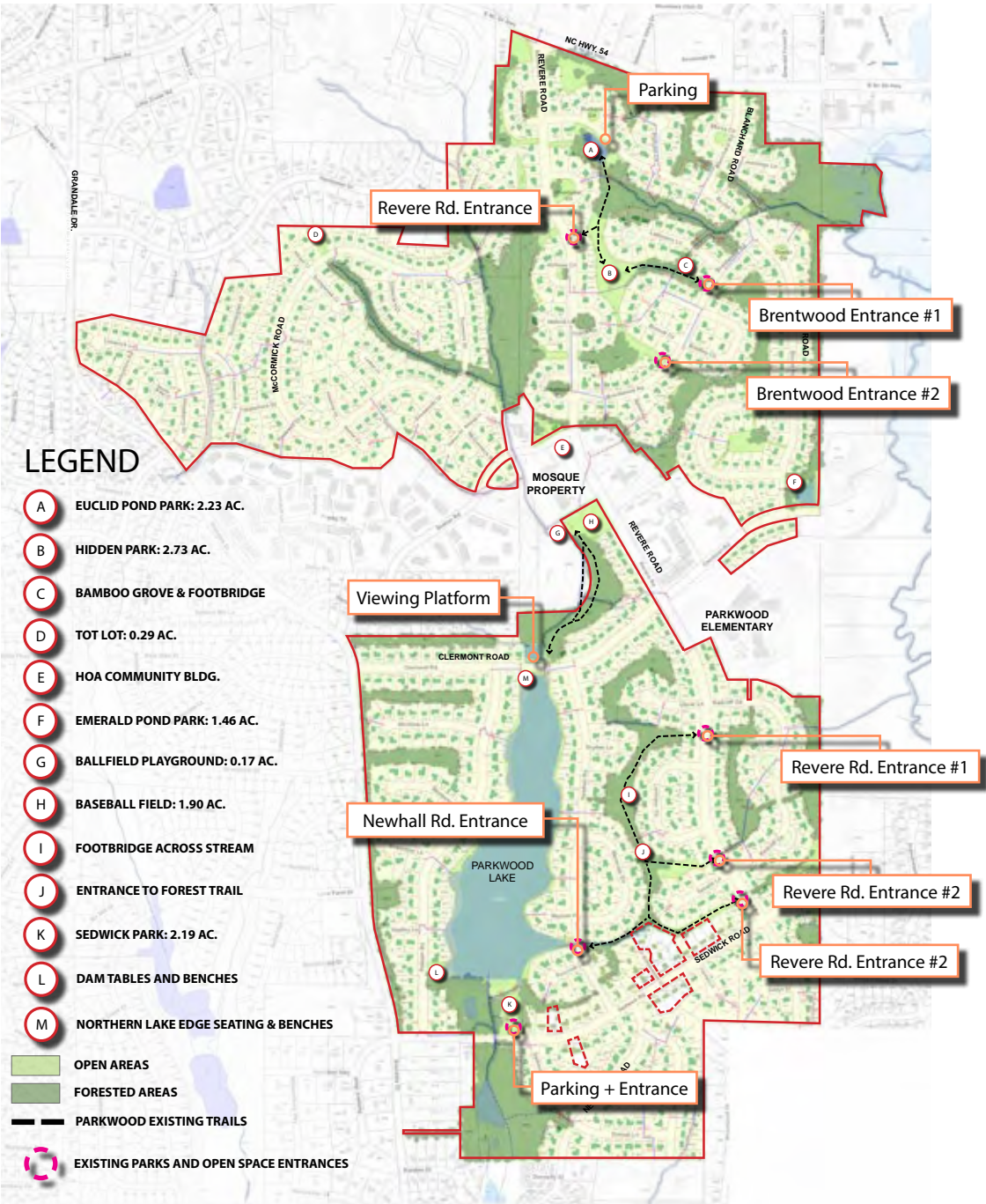


Figure 3.25: Current Parks and Open Space Map

Euclid Pond



Park (2.23 acres)

- 2 Benches
- Newer Playground with Play Equipment
- 5 Parking Spaces
- 2 Trash Receptacles
- Mature Trees



Hidden Park

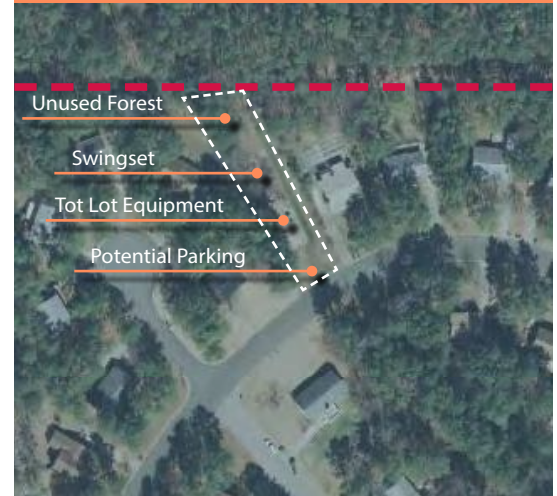


Park (2.73 acres)

- Open Manicured Field
- Nice Views with Mature Tree Border
- Playground with Various Play Equipment
- 2 Benches
- 1 Picnic Table



Tot Lot



Park (0.29 acres)

- Fenced Playground with Multiple Play Equipment
- 1 Lamp Post
- 1 Picnic Table
- 1 Swinging Bench
- 1 Trash Receptacle



Emerald Pond



Park (1.46 acres)

- Hillside Views
- Corner Planting
- 1 Seating Area
- 1 Bench
- 1 Trash Receptacle



Sedwick Park



Park (2.19 acres)

- Large Manicured Fields
- Playground with Multiple Play Equipment
- 3 Benches
- 12 Parking Spaces
- 1 Trash Receptacle



Figure 3.26: Current Parks and Open Space Images

OPEN SPACE

Parkwood has nearly 104 acres of open space land in addition to the park areas, Parkwood Lake, and the ballfield. The community's original developers intentionally preserved the stream corridors and lowland forests for the benefit of the community as shared spaces. As shown by the plan, many lots have backyards that border these open spaces providing a nice benefit to the homeowner. Different from Parkwood, newer examples of residential development found throughout the region create less spacious development removing all vegetation from the land. Homes are more compact on smaller lots with very little front and side yard setbacks. Streets are more heavily loaded with cars and standard streetscape features such as mailboxes and utilities. Screening is provided often by fences between backyards creating barriers to interactions. Newer developments typically do not offer the quality of spaces found within Parkwood, consequently never achieving a similar set of experiences.

The open space found at Parkwood offers the ability to build upon these unique qualities of preservation and use. Creating the right balance of active and passive recreation, preservation and low-impact programming will meet the many varied interests of Parkwood's community.

Baseball Field

The baseball field continues to be scheduled to capacity by the Parkwood Sports Association (PSA) and South Durham Little League (SDLL) during weekday evenings, which includes nearly 1000 children from the Parkwood community. PSA typically reserves the field for a full day on Saturdays. These youth league seasons run from mid-February to mid-June in the spring and mid-August through early December in the fall. Local residents, travel groups, and the mosque also schedule time to use the ballfield on Sundays. The gross annual revenue averages approximately \$5000. In addition to paying for use of the field, PSA and SDLL assists in small-scale maintenance efforts like raking the infield and replacing bases. The outfield maintenance including grass cutting and pest treatment is included in the general maintenance contract Rescue Lawn Care (RLC). Larger maintenance, including replacement of bulbs and ballasts, for example, occur every two to three years. Several Parkwood residents and representatives are in the process of seeking additional funding from entities like Major League Baseball (MLB) and the Durham Bulls to help with those larger expenses.

COMMUNITY AMENITIES (OFF-SITE)

There are a number of amenities in the area that are not maintained by Parkwood's HOA but benefit the homeowners and residents of the community. Many are currently available to the community while others, like Parkwood Elementary School's grounds will require some negotiation for shared use.

Swimming Pools

One such amenity is the Parkwood Swim Club, which is available for a fee. The swim club is located at the east end of Clermont Road adjacent to Emerald Pond Park. The pool operates as a non-profit entity open during the summer between Memorial Day weekend and Labor Day. Lifeguards are present to watch the 4-lane pool, including a deep end diving area, and the separate baby pool. There is seating around the sunny pool deck with additional picnic tables and shaded seating. The club houses changing facilities and full bathrooms for members and guests. The swim club has a swim team and offers lessons throughout the summer.

The Parkwood Townhouse Pool also serves the community residents through a resident membership. This pool allows residents to swim while events may be happening at the Parkwood Swim Club pool. It is important to maintain these relationships, ensuring opportunities for Parkwood residents to access these pools.

Community Gardens

Parkwood has a community garden planted for use by residents and maintained by neighborhood volunteers. The garden has plots for vegetables, flowers, and other items residents would like to grow.



Figure 3.27: Community Garden Location



Figure 3.28: Parkwood Swim Club

Baseball Field Playground

The baseball field playground is located behind the baseball field adjacent to the Parkwood shopping center off Revere Road. The playground is not well-defined and is not clearly marked with signage but is visible and easily accessible from the ballfield and parking lots. Parking for the ballfield requires parking on private property. The grounds are predominantly mulched but have some drainage issues. A fence at the rear of the grounds separates the playground from the forest and creek beyond. The playground is equipped with older equipment and one bench for seating. A trash can is also present at the playground.

Parkwood Elementary School

Parkwood Elementary School is located at the corner of Clermont and Revere Roads one block south of the Parkwood Shopping Center. The K-5 school was built in 1967 and remodeled or expanded in 1983, 1989, 1992, and 2005, and designed to enroll up to 695 students. Parkwood Elementary's grounds total 22.6 acres with a number of activity fields and playgrounds. There are two small baseball fields, a basketball court, two playground structures, two swingsets, and one enclosed tot-lot. Operated by Durham Public School System, it is understood that the playgrounds are not for public use and would not be available to Parkwood residents. Separate discussions and agreements need to be made by the Parkwood Board to establish Parkwood residents' ability to use the school playground. Parkwood Elementary School ballfields are currently used by the community sports leagues.

Parkwood Shopping Center

The Parkwood Shopping Center was built in the late 1960s to provide limited goods and services for the community. In 1975 the community built a library which lasted into the 2000s until the county library was built 2.1 miles east in 2010. Many business have come and gone at the shopping center. Current tenants include a Muslim mosque and school with a Mediterranean grocery.

Other Community Elements

Parkwood is also home to four religious facilities including the Baha'i Center, 4D Church, Parkwood Methodist Church and the Jamaat Ibad Ar-Rahman mosque. Parkwood's HOA office building as well as the Parkwood Volunteer Fire Department, which is now part of the Durham County Fire and Rescue, are included within the borders of the Parkwood Community. In addition, there is an apartment community off Revere Road and across from the baseball field near Parkwood Elementary School.

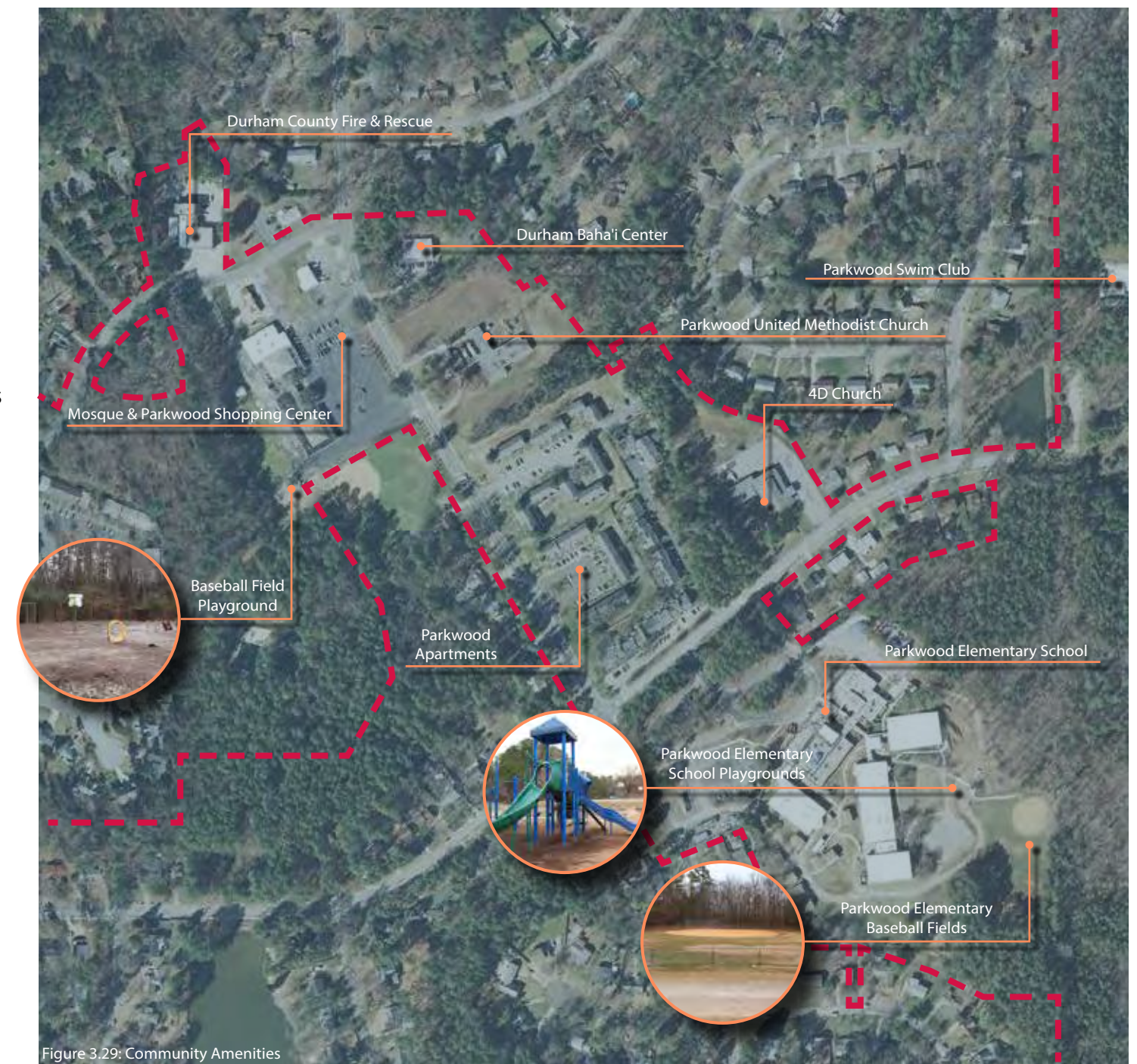


Figure 3.29: Community Amenities

DISTRICTS

Parkwood has organized its land areas into eight (8) districts, which were established in the governing documents for the community (see map 3.30, page 32)

District 1 (1960s) - Located along Highway 54 and encompassing the main entrance to Parkwood, this district contains mainly single-story, ranch-style homes situated on third-of-an acre lots. The lots have groupings of deciduous and evergreen trees, but are less heavily wooded than other districts in Parkwood. One small creek runs through the district leaving Euclid Pond Park pond draining east. Aside from Euclid Pond Park, District 1 also encompasses part of Hidden Park with District 3. Trails leading to and from Euclid Pond and Hidden Park connect the district to the rest of the community through the open space in back of the homes along Revere and Euclid Roads. Ideal for 'pocket parks', District 1 also has potential active spaces found within the unprogrammed landscape circles found along Revere Road. These circles are maintained as wooded or mowed parcels totaling more than 1.7 acres. District 1 also has large maintained open areas on both sides of the entrance to Parkwood, along NC 54, that could be used for active areas as well.

District 2 (1970s-1980s) - Bordering District 1, District 2 contains one, two-story, and split-level houses built in the mid-nineteen seventies. The homes are situated on lots just over a quarter-of-an-acre. District 2 has one park space identified as the 'Tot Lot' located on McCormick Road. The houses in District 2 sit on partially-wooded lots with naturally-occurring evergreen and deciduous trees. A large open-space area sits on the eastern edge of this district and at the rear of houses located along Revere Road. This space contains many impressive old trees directing the eye upwards from the trunks to the large canopies they showcase. This portion of forest would be a nice area to preserve as a walk through time showcasing some of Parkwood's legacy trees dating back to before the community was developed. Two creeks run through District 2 with many of the homes' backyards abutting the stream buffer.

District 3 (1960s) - Many of the homes in District 3 were built in the early 1960s and located on neighborhood connector streets, Euclid and Brentwood Roads. The district is also served by the smaller streets of Bradley, Burbank, Emerald, and Sinnott Circle. Along Euclid Road, many homes are split-level houses, while Emerald Circle and Sinnott Circle mostly containing single-story ranch-style houses. Throughout District 3, a few two story ranch-style homes can be found. The homes along Euclid Road have backyards bordering public land overlooking the bottomland forest and flood plain of Northeast Creek. District 3 shares Hidden Park with District 1 and Emerald Pond Park with District 4.

District 4 (1960s) - The homes of District 4 sit in close proximity to Parkwood Elementary School and encompass the homes along Revere Road from the Parkwood Shopping Center south to Radcliff Circle. Many of the homes are a mix of split-level, small ranch styles, and two-story ranch-style homes built in the mid-1960s. As is typical for homes in Parkwood, lots are less than one half-acre in size. This district shares the open space known as "Revere Oasis" behind Larkspur Circle and Oliver Lane with District 5 to the west. One access point connecting the district to Revere Oasis through the community trail system is located between lots 5304 and 5306. Opposite of this entry, the homes on Revere Road have an enclosed wooded open space not easily accessible and providing a privatized buffer to homes on Radcliff Circle. The houses on Radcliff Circle abut wooded community open space to the east before dropping off to the Northeast Creek bottomland area. Similar to District 1, District 4 has the opportunity to activate small landscaped circles maintained by the Parkwood Association. These two locations are located on Radcliff Circle, totaling more than 0.6 acres.

District 5 (1970s) - This district is located between District 4, to the east and Parkwood Lake, to the west. The main attraction and amenity for this district is Parkwood Lake. Houses along Newhall Road have backyard views and access to the lake. The houses in this district are split-level and single-story ranch-style houses that were built in the mid to late 1960s along with much of the rest of Parkwood. In District 5, homes are situated on wooded lots with native populations of deciduous and evergreen trees. This district shares Revere Oasis with District 4 and can be accessed by the trailhead at Newhall Road across from Foxcroft Lane or on Revere Road between Sedwick Road and Temple Lane. District 5 also benefits from a small park space and public access point off Newhall Road across from the Revere Oasis entrance. District 5 shares Sedwick Park with District 6 at the southern end of Parkwood Lake along with the public space and lake access at the north end.

District 6 (1970s) - District 6 flanks the west side of Parkwood Lake and borders the southwest edge of the community. The homes in this district are mainly single-story ranch-style homes with some split-level homes interspersed. A few have been updated, one significantly, in the modernist style. The houses in District 6 are of standard size for the Parkwood. Many of the lots in this district are slightly larger than is typical of this subdivision, with many close to 0.4 acres in size. The homes in this district have partially-wooded lots and shared green spaces between the three cul-de-sac roads, which branch off of the larger collector road, Pelham Road. Like the homes in District 5, the homes in this district are within easy walking distance to Sedwick Park. As mentioned above, this district shares the north and south public access points to Parkwood Lake on Pelham Road along with Sedwick Park below the lake's dam. At the southwest end of the Parkwood Lake's dam, a sizeable open space area with benches and old picnic pad has room to expand upon and provides for a relaxing view along with good lake access.

District 7 (1970s) - The houses in District 7 are predominantly single-story ranch houses built in the early 1970s. They have partially wooded third-of-an-acre lots typical to Parkwood. The lots along Carmel Lane however, are larger than is typical for the subdivision, with lots over half-an-acre in size. The three neighborhood roads in this district (Elmset Lane, Shamrock Road, and Newhall Road) form a loop, but they do not create a common greenspace to their center, as is typical in other parts of Parkwood. Instead, District 7 is partially bordered by the bottomland forest of the creek south of Sedwick Road that exits Parkwood Lake. This open space may be accessed off Newhall Road near its connection to a small neighborhood of 37 homes that also borders a portion of this southern district.

District 8 (1980s -1990s) - Located in the northwest corner of the community, District 8 was the last phase of Parkwood to be built, mostly in the early 1980s. A few lots were built in the early 1990s. The houses in this district are mostly single-story ranch style houses with some split-level homes. These homes sit on typical, third-of-an-acre lots. A small creek runs through a wooded canopy behind the houses on Wineberry Drive. This 'green' corridor is the only open space access for this district and is a potential connection to the community's open space amenities aside from connectivity to the street.

Roadways

Throughout the community, Parkwood's roadways were designed to minimize through-traffic and provide safe street connectivity, allowing residents and children to walk comfortably within the street to access the community parks, shared greenspaces, and Parkwood Elementary School. Parkwood achieves walkability through numerous loop roads and cul-de-sacs with little traffic. Two (2) through-roads with five (5) neighborhood connectors provide mobility between the eight existing districts of Parkwood. One NCDOT road, Sedwick Road separates District 7 from the other eight districts. None of the roads in Parkwood have more than two lanes, though Sedwick and Revere Road have bike lanes on both sides of the Right-of-Way (ROW). It is also worth noting that the city shows all of Parkwood's neighborhood roads to be public streets maintained by the city. Any improvements would need to be approved by the city or state.



Figure 3.30: District Conditions

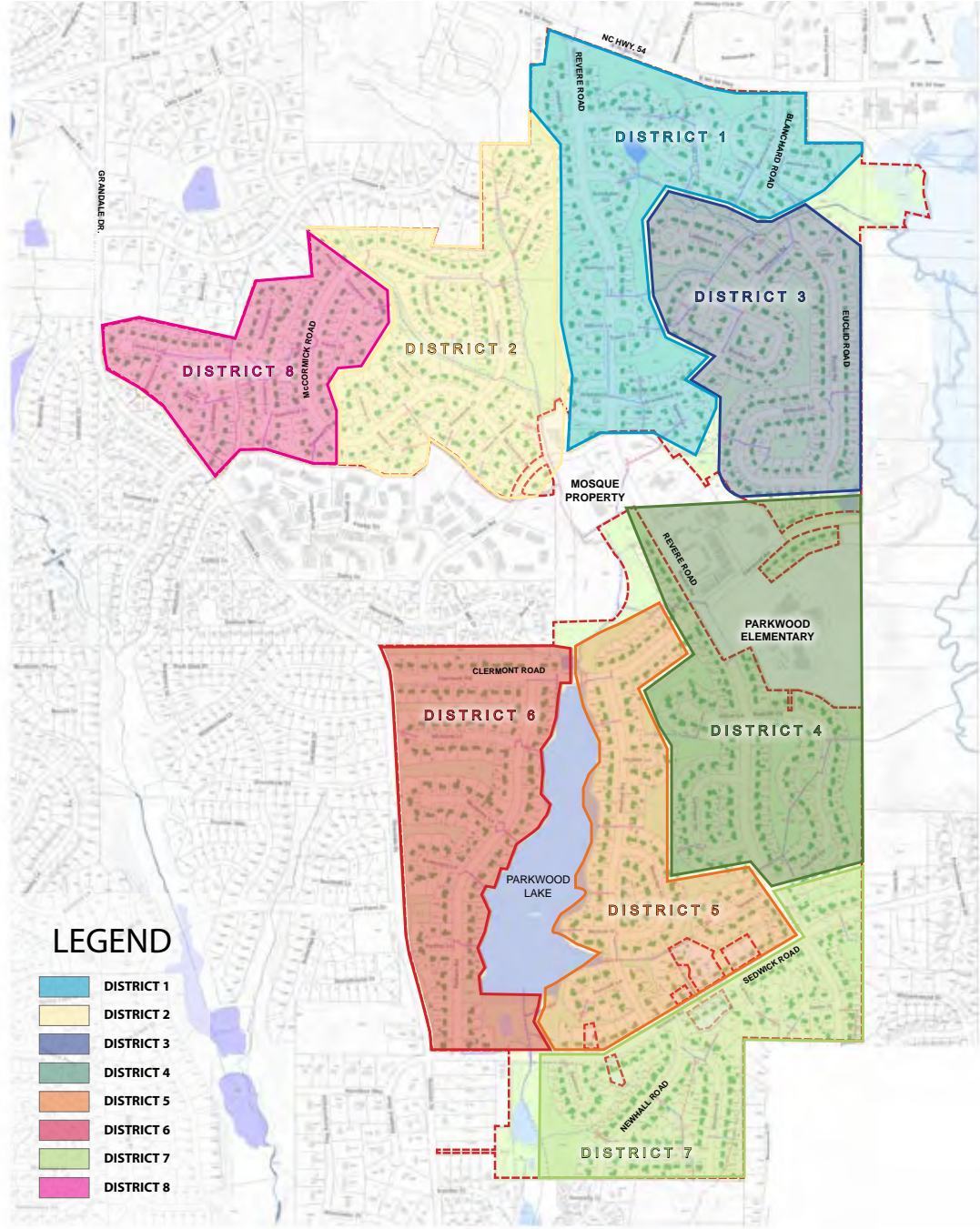


Figure 3.31: Existing HOA Districts



TRENDS & ANALYSIS

COMMUNITY ANALYSIS

Overview

Part of analyzing any large site is to collect information and data through various sources. Primary sources of data collected for Parkwood's Parks and Open Space Comprehensive Master Plan came in the form of community meetings, user surveys, and field verification. Secondary sources included community reports, demographic research, and user trends happening within the park planning industry.

DEMOGRAPHICS

Analyzed as a secondary source of information, census data from the U.S. Census Bureau was collected to better understand demographic shifts in the community that could identify new opportunities for parks and open space programming. Data was gathered at the census tract level encompassing the Parkwood Community and portions of adjoining neighborhoods. The map in Figure 3.32 shows the three block groups that make up the census tract 20.13. Information gathered came from the 2010 census as well as projections between 2011-2015. The following information was found:

2010 Census

The total population provided by the 2010 census was estimated to be 4,481 people living in 1,777 homes found within tract 20.13, or an average household size of 2.52 people. Of that population, 69.9 percent were under the age of 50. The three main age groups of people that made up 69.9 percent of people were individuals between the ages of 35 to 39 (8.2%), 30 to 34 (9.2%), and under 5 years of age (7.8%) as shown in Figure 3.34 on page 34. Additional data showed the largest male population were in their 30s (8.6 percent) and boys under 10 (8.0 percent). Correspondingly, females were 8.9 percent and girls 6.9 percent for the same age groups. The entire age profile of the population amounted to a median age of 37.1 with males averaging 35.5 years of age and women averaging 38.8 congruently.

The census tract was comprised mostly of family households making up 69.6 percent of all residences. The number of families with children under the age of 18 equated to 31.4 percent. Households with individuals over 65 years of age were estimated to be 18.2 percent. Although the population and housing profile has a mix of ages and household differences, the largest group showed to be young families with adults in their 30s and children under the age of 10.

2011 – 2015 5-Year Census Estimates

The 5-year growth projections for the census tract show an increase in population of 4.5 percent, amounting to an additional 202 residents with a total estimated population of 4,683. The population under the age of 55 years old amounted to 71.6 percent as shown in Figure 3.35 on page 34. The three largest groups being between the ages of 45 to 54 (14.2%), 35 to 44 (17.9%), and 25 to 34 (15.7%). The median age for the entire population was shown to be 41.4 years old.



Figure 3.32: Census Tract 20.13

The projected race profile (Figure 3.33) within the census tract showed the majority of the population was made up of White (58.1 %), African American (25.3 %), Hispanic (8.2%), and Asian (4.3 %).

The makeup of families within the census tract showed 68.9 percent of homes had a family unit of some kind. Non-family households equated to 31.1 percent. Of the 68.9 percent, 27.3 percent of those families had children under the age of 18. Households with an individual over the age of 65 comprised 22.3 percent of the total surveyed households.

Between 2011 and 2015, 12.3 percent of people in the census tract lived in a different house within the previous year. Additionally, 13.2 percent of people spoke a language other than English, but only 4.6 percent of those individuals could not speak English ‘very well’.

Census Results

The statistics found within the census data acknowledge a large portion of the community will continue to show a cohort of people under the age of 55 with a high concentration of those being young adults with families. The census tract’s median age looks to increase from 37.1 to 41.4 by 2015. There are still a number of individuals living in the census tract that are over the age of 60. The census suggests that older residents are less likely to move than their younger counterparts and are, therefore, likely to continue to comprise a significant portion of the surveyed population into the near future. This older age group also showed an increase from 18.2 percent to 22.3 percent for individuals over 65 years in age.

The data suggests that the census tract communities should continue to plan for the largest segment of the population being under the age of 50 with most people being in their 30s and early 40s. Young children under the age of 10 are the largest youth age group. Additionally, an aging population over 65 should also be considered for future community program development. A diverse range of racial backgrounds has a presence here with planning efforts focused around the White, African American, Hispanic, and Asian populations.

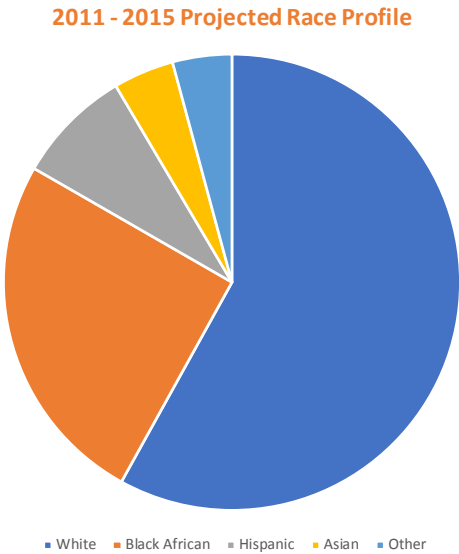


Figure 3.33: 2011 - 2015 Census Tract Projected Race Profile - 2011-2015 American Community Survey 5-Year Estimates - U.S. Census Bureau

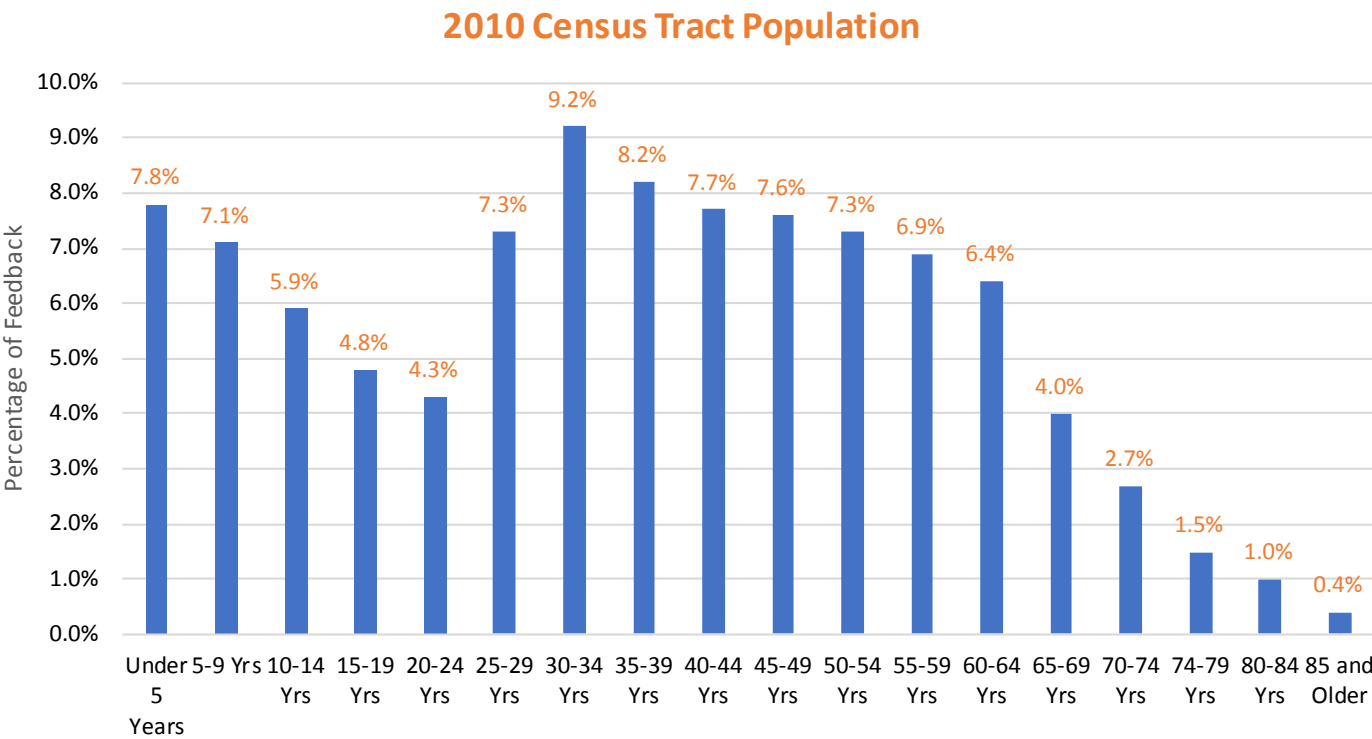


Figure 3.34: 2010 Census Tract Population - 2010 Census Summary - U.S. Census Bureau

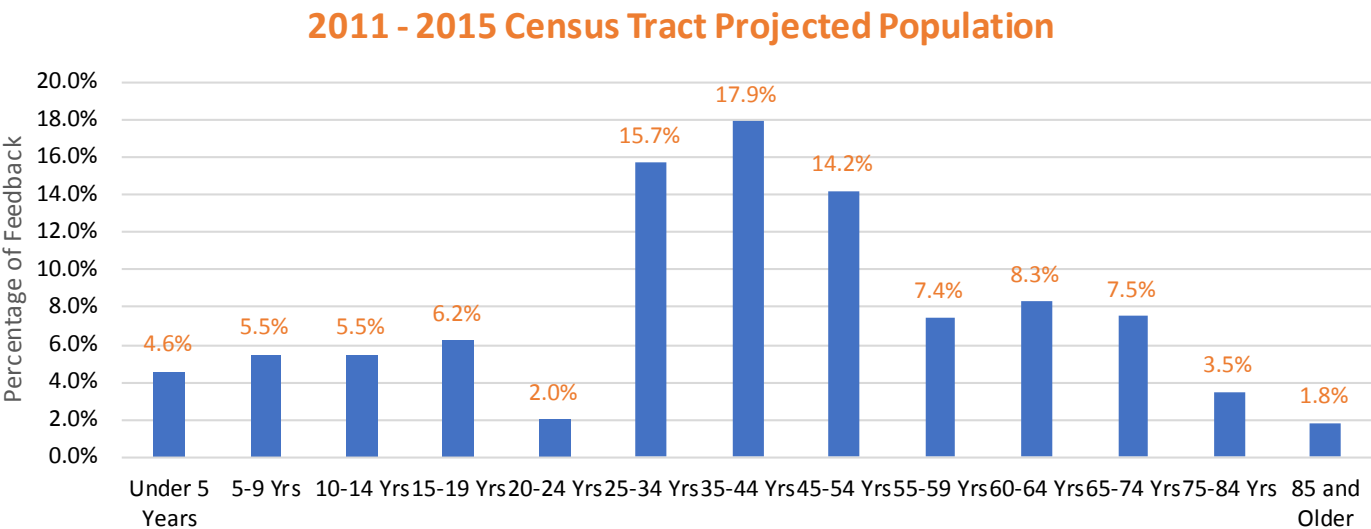


Figure 3.35: 2011 - 2015 Census Tract Projected Population - 2011-2015 American Community Survey 5-Year Estimates - U.S. Census Bureau

What Opportunities and Challenges do you see?
Write them down on a sticky note and place them on on the map.

Open/Green
Spaces =
More inviting

Over Scripting
Open Spaces!

Boardwalk

Wood
Pond
Access

4 COMMUNITY INPUT PROCESS



CHAPTER CONTENTS

- Overview and Objectives
- Opportunities for Community Input
- Community Planning Input
- Community Responses
- Parkwood Residents

COMMUNITY INVOLVEMENT

OVERVIEW and OBJECTIVES

The community involvement phase was agreed upon with the Parkwood HOA to be carried out in three separate meetings in partnership with the Steering Committee. While the engagement process was slightly different at each meeting, the cumulative responses were collected and quantified to understand the needs and desires for the future of the Parkwood Community. The purpose of coordinating several community meetings was to get varied input from different residents in the community, so that the master plan could ultimately be informed by the people that live here and use these spaces.

OPPORTUNITIES FOR COMMUNITY INPUT

These community meetings provided valuable input not only about the specific infrastructure and programs residents would like to see, but also the most pressing priorities for this community. Full summaries of the outreach activities are included in the Community Input section in the Appendix at the end of the book. The following opportunities were given for the community to give input in the plan:

Public Meeting 1: June 24, 2017, SummerFest

- + Preliminary mapping
- + Demographic overview
- + Survey Questionnaire
- + Over 100 attendees, spoke with 10-15

Public Meeting 2: December 9, 2017, United Methodist Church

- + Identify gaps in park system
- + Identify needs and new amenities
- + Conceptual layout of master plan
- + 40 attendees

Public Meeting 3: May 12, 2018, Parkwood Church

- + Finalize program for master plan
- + Prioritize and phase infrastructure and programming
- + Identify financial costs, budgetary needs, and grant opportunities
- + Over 30 attendees

Parkwood Comprehensive Park Plan Survey (Full results available in the Appendix)

- + Conducted from **June 24 - July 15, 2017**
- + 245 responses

Parkwood Playgrounds Survey*

- + Conducted in 2017
- + 65 responses

** Conducted prior to Master Planning process*



Figures 4.1, 4.2, 4.3, 4.4: Parkwood Festival, June 24, 2017

COMMUNITY PLANNING INPUT

Three meetings with the community emphasized the community's desire to connect the different districts within Parkwood and to incorporate varied amenities for a diversity of residents. The following themes emerged from this process and will help guide the development of the master plan.



Increase Accessibility and Connectivity

- + Increase safe access to destinations with sidewalks
- + Increase safety and visibility at road crossings
- + Capitalize on use of easements between lots
- + Connect lakes with pedestrian passageways
- + Improve visibility of all parks with signage and visual cues
- + Improve accessibility for people with disabilities
- + Connect to regional trail system
- + Connect to regional transit

EASEMENT: a right to cross or otherwise use someone else's land for a specified purpose. Also known as "right of way"



Improve Existing Assets

- + Enhance and connect Euclid Pond and Hidden Park
- + Add shade to existing playgrounds
- + Ensure playgrounds accommodate children of different ages
- + Improve lighting at parks and ballfield
- + Add trash and recycling receptacles at parks
- + Improve parking for park access
- + Incorporate opportunities for exercise and socializing

OPEN SPACE: areas left open for the use of the public, such as a piazza, plaza, park, and courtyard



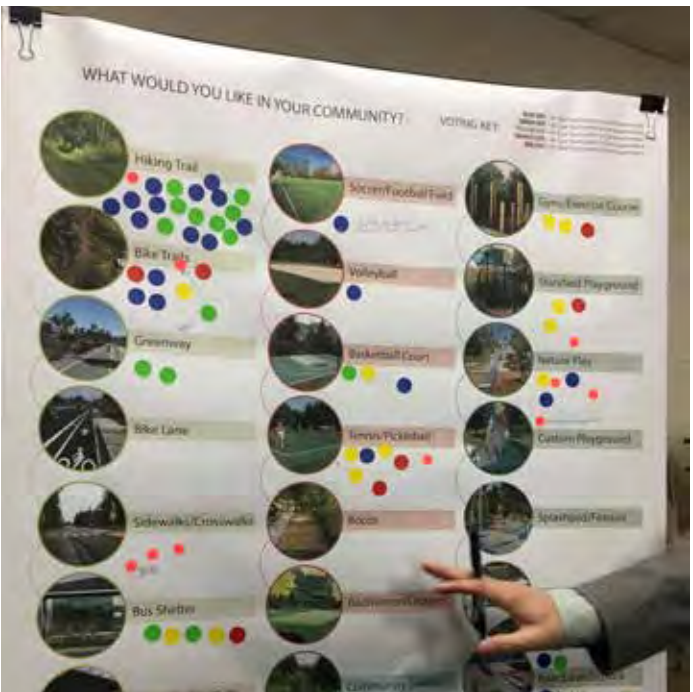
Incorporate Open Space Uses

- + Remove weeds and invasive plant species
- + Add walking and jogging trails
- + Improve water access, water quality and amenities
- + Preserve natural areas



Foster a Proud Community Network

- + Increase safe access between neighborhoods and districts within Parkwood
- + Implement shared services like dog stations
- + Encourage a diversity of park programming to accommodate many different users
- + Include information on park maps and amenities on Parkwood's website
- + Consider upgrades to HOA office for rejuvenated branding and marketing
- + Coordinate community events to bring people together
- + Use fees to implement recommendations in community plan over time



Figures 4.5, 4.6, 4.7, 4.8: United Methodist Church Meeting, December 9, 2017

II

There are no **trash cans** in Hidden Park. The **signs** could be better for all of the parks. Currently, the spaces themselves are wonderful but look as if no one cares about them...**Poison ivy** is growing all over the trails, which we use daily...The **access points** for all of the named parks and trails could benefit from better signage and clearer access points. -Parkwood Resident

COMMUNITY RESPONSES

The final public meeting was held on May 12, 2018 at the Parkwood United Methodist Church. After presenting the most recent recommendations for Parkwood's Parks and Open Spaces, Stewart staff fielded questions on the specifics of the master plan and supporting documentation. Through this meeting, there were several topics of discussion that surfaced multiple times. One topic was the amount of potential parking suggested throughout the community. While some residents were in favor of additional parking in key locations, others were not and wanted to see a reduction from what was proposed. Although we acknowledge potential locations for parking are in support of improved amenities and access, the amount should be refined as each project goes through a site design process. Another topic that was discussed multiple times was residents excitement about the potential for connecting the neighborhood through a trail system. In addition to the support of a connected trail system, attendees also were encouraged by the inclusion of enhanced public spaces around Parkwood Lake that could serve as a more inviting recreational amenity for homeowners.

Different community members had varying thoughts on what proposed improvements should be made a priority. We recommend the community continue discussing efforts to prioritize these enhancements and to determine which community projects are feasible and most needed.

Community Feedback: Affirmations

- Sidewalks & walking paths (namely Hwy 54)
- Greenways connecting different parts of the community
- Ensure there are open spaces preserved to accommodate large community events & gatherings
- Wayfinding signs to navigate paths and trails
- Lake access with additional seating and shade to make the lake more of a recreational space
- Add trashcans to shared park spaces and playgrounds

Community Feedback: Questions & Concerns

- Preserve existing trees at play areas and sites with recommended parking
- Continue community engagement to make residents aware of existing assets
- Ensure parking does not block the view of Parkwood Lake on Clermont Road
- Potentially reconsider locations and number of dog parks
- Need to clean Euclid Pond and implement measures to avoid algae growth and minimize erosion
- Too many proposed parking locations (parking at trailheads is priority)
- Potential to preserve ballfield for revenue generating opportunities



Figures 4.9, 4.10, 4.11, 4.12: Final Public Meeting, May 5, 2018

73% of those surveyed say that they use the open space amenities at Parkwood at least once a week.

PARKWOOD RESIDENTS

Residents tend to stay in the community.

More than two-thirds (69%) of respondents have lived in the neighborhood more than five years. Nearly 30% of respondents have lived in the neighborhood more than 20 years.

The community has a wide range of age diversity.

The majority (55%) indicated they do not have children in the household while 30% indicated they have children under the age of 5 years.

Residents get outdoors.

The majority (79%) indicated they use Parkwood's existing parks and open space.

What We Heard

Existing Parks: The existing facilities have some room for improvement. (Only half of respondents indicated they are reasonably well maintained.)

Parking: More parking may be needed to improve accessibility to parks and open space. (39% believe there is sufficient parking at existing park facilities.)

Lighting: Some feel that additional lighting may be needed at existing parks. (35% indicated yes.)

Access: Most feel parks and open space areas are accessible to all neighbors. (56% indicated yes.)

Safety: Most respondents feel that the open space and park areas are safe. (70% indicated yes.)

Funding: The community appears willing to pay for park upgrades. (67% of respondents indicated they are willing to pay at least \$25 more per year in HOA fees.)

Results from 2017 Parkwood Comprehensive Park Plan Survey

Desired Amenities (By Community Respondents)

Top 5 Connectivity Elements

- 1 Natural surface walking/ hiking trails
- 2 Greenway paths for bicyclists and pedestrians
- 3 Standard Sidewalk
- 4 Standard Crosswalk
- 5 Standard Bus Shelter

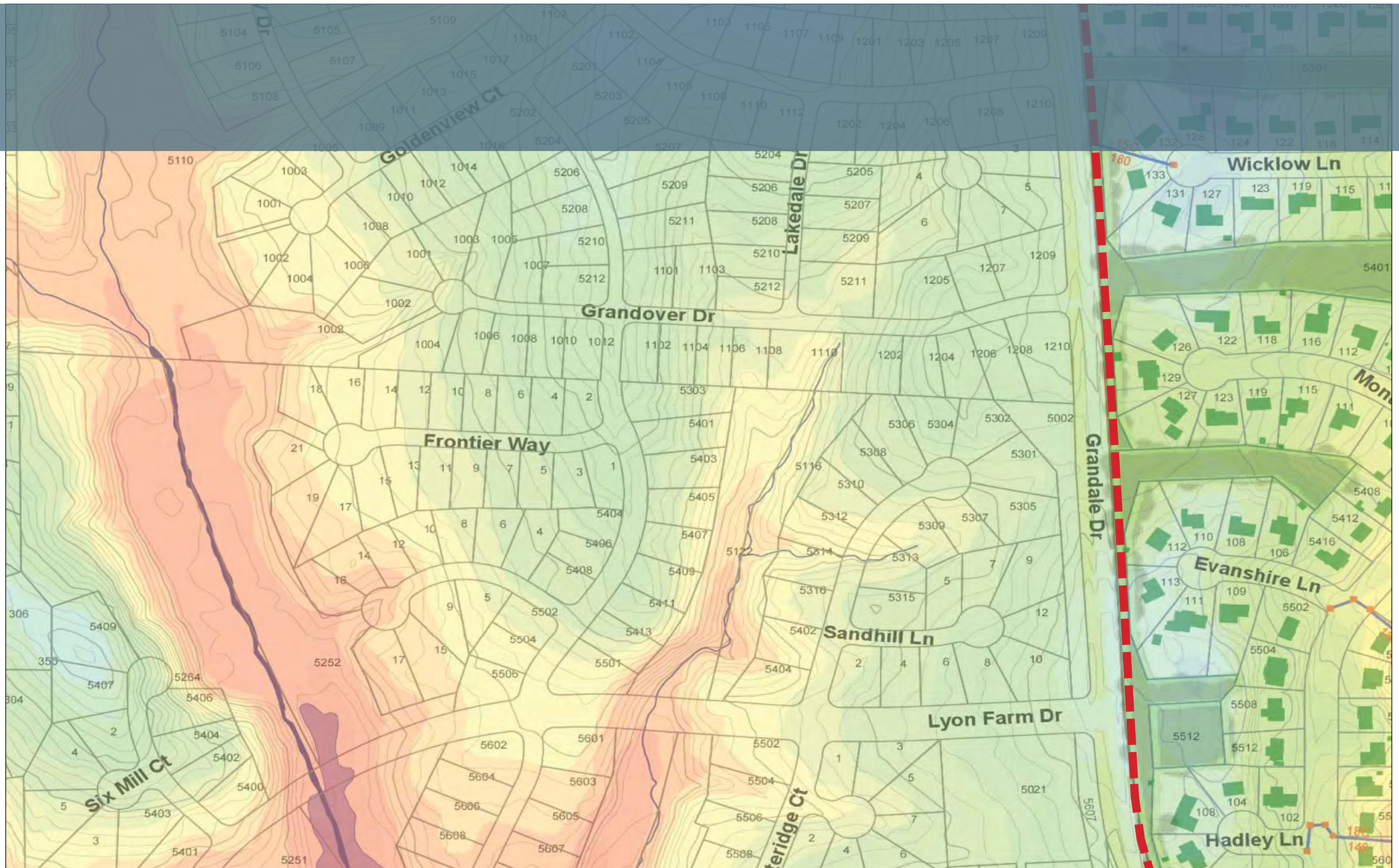


Top 5 Parks and Open Space Elements

- 1 Natural areas
- 2 Improved playgrounds
- 3 Improved water access (i.e., dock, boat launch)
- 4 Covered shelter with grills
- 5 Dog park/dog run



The images shown were presented to community members at Public Meeting #2 to ask which types of activities they would like to see in their community. Results are a synthesis of Public Meeting #2 and 2017 Parkwood Comprehensive Park Plan Survey. Figures 4.13, 4.14, 4.15, 4.16, 4.17, 4.18, 4.19, 4.20, 4.21, 4.22: Example Images of Community Amenities



COMMUNITY NEEDS AND ASSESSMENT

5

PARKWOOD
LAKE



CHAPTER CONTENTS

Community Parks and Open Space Needs
Gap Analysis
Opportunities and Constraints Analysis

5. Parkwood Parking Analysis

Assessment of Current Structures
Play Area Surface Requirements
Adjacency Analysis
Recreation Elements

ANALYSIS

COMMUNITY PARKS and OPEN SPACE NEEDS

The community of Parkwood has developed over decades just south of interstate 40 in southern Durham. Since its founding, Parkwood provides its residents with a family-oriented environment that is becoming more desirable to new homeowners and cherished by those that continue to call this community home. As these changes occur, the needs of the community have also changed. Those needs range from both active and passive interests, privacy but inclusivity as well, and vibrant yet measured in its traditional character.

Through a number of meetings held with the public and HOA board, as well as site analysis and current trends and best practices in park and recreation planning, we have compiled a summary of the most important community parks needs to be addressed in the recommendations.

- + Access for all community residents to safe community parks and open space
- + Encourage more interactions between neighbors and promote healthy activity
- + Provide water access and amenities on, near, or around the water
- + Provide for low intensity uses such as walking and nature exploration
- + Provide for more active uses, such as playgrounds and sports
- + Provide consistent signage throughout community to identify and connect spaces
- + Support all kinds of users, ages, ethnicities
- + Involving reliable contractors for park updates and improvements

Recreation Service Calculations

560 acres in Parkwood
11 acres in active recreation space
104 acres in open space
1,006 homes | Population 2,650*

Estimated Gap: 15 acres

(*2010 census base year data plus 2015 estimated population increase)

Euclid Pond Park	2.23 acres
Hidden Park	2.73 acres
Tot Lot	.29 acres
Emerald Pond Park	1.46 acres
Sedwick Park	2.19 acres
Ball Field	1.90 acres
Ball Field Playground	0.18 acres
Total Active Recreation Areas	10.98 acres

Population	2,650
Estimated need (based on one acre per 100 people)	26 acres
Active Recreation Areas	11 acres
Estimated Gap	15 acres

GAP ANALYSIS

Standards for outdoor recreation list a number of metrics that relate to a community's access to recreational needs. One metric is to provide one acre of city park or playground per 100 population. Applying this metric in a rough calculation to Parkwood, yields an estimated service gap of approximately 15 acres. This calculation does not take into account some of the recreational trails, which could be used to buffer this figure. It also does not take into account the location, accessibility, or quality of parks provided - all of which can affect the quality of service that park areas offer. Options to increase park service to Parkwood residents, further reducing the estimated gap without establishing new parks include:

- >> **Increasing quality of park service:** The service provided by anything, whether it is a playground, soccer field, or linear park is determined in part by its quality. A playground with a variety of features, such as climbers, slides, and swings provides a higher degree of service than one with nothing but an old teeter-totter and some "monkey-bars." A path overgrown with weeds and branches with poor drainage does not provide a quality experience for trail users.
- >> **Upgrading condition or comfort of existing park assets:** The condition of a component within the park system also affects the amount of service it provides. A playground in disrepair with unsafe equipment does not offer the same service as one in good condition. Similarly, a baseball field with well-maintained turf and infield certainly offers a higher degree of service than one that is full of weeds, ruts, and other hazards. Likewise, the service provided by a component is increased by having amenities that increase comfort. For example, outdoor components are often enhanced by attributes such as shade, seating, and a restroom nearby enhancing the experience of using that component.
- >> **Increasing convenience and accessibility:** Convenience encourages people to use a component, which increases the amount of service that it offers. Easy access and the availability of trash receptacles, bike racks, or clearly locating and designating nearby parking spaces are examples of conveniences that enhance the service provided by a component.

OPPORTUNITIES and CONSTRAINTS ANALYSIS

This analysis for Parkwood incorporates information gathered through research, site visits, and listening sessions with the community during the information gathering phase of this process. Figure 5.01 incorporates opportunities existing today at Parkwood, acknowledges noteworthy aspects of surrounding properties, and also identifies constraints posing challenges or requiring coordination with outside entities.

The analysis identifies three areas of presently existing forest that should be considered for preservation, including potential habitat restoration opportunities:

- PRESERVATION
- 1. Old Growth Forest
 - 2. Bottomland Forest
 - 3. Preserved Forest

The site analysis also shows parks that could be expanded in their current locations as well as opportunities for new park locations to be considered. Many of these locations for new program elements, recreation activities, and access points may need parking options for certain user groups. Opportunities identified show new connections that can be made throughout the property from the expansions of bike lanes, sidewalks, trails, entrances to open space, and access to the lake to neighboring properties and regional amenities beyond Parkwood.

- CONNECTIONS
- 4. Active Recreation Spine
 - 5. Northeast Creek Trail Connection
 - 6. Bicycle lanes and sidewalks on Sedwick Road

Opportunities

- >> New connections within pedestrian network including additional sidewalks, bike lanes, & trails
- >> Existing areas maintained for new park elements such as playgrounds, picnic shelters, and social gatherings
- >> Regional trail connections

Constraints

- >> Parks and trails need improvement: parking, lighting, signage, equipment, & use
- >> Limited partnerships to help with improvements and maintenance. Lots of mowed open space, which dries out the soils, does not benefit the existing wildlife, and requires additional maintenance
- >> Trails and open space access limited and mostly unmarked making it hard for people to find and use

LEGEND

- A EUCLID POND
- B HIDDEN PARK
- C BAMBOO GROVE & FOOTBRIDGE
- D TOT LOT
- E HOA COMMUNITY BLDG.
- F EMERALD POND
- G BALLFIELD PLAYGROUND
- H BASEBALL FIELD
- I FOOTBRIDGE ACROSS STREAM
- J ENTRANCE TO FOREST TRAIL
- K SEDWICK PARK
- L DAM TABLES AND BENCHES
- M NORTHERN EDGE SEATING AND BENCHES
- P POTENTIAL PARKING LOCATIONS
- OPEN AREAS
- FORESTED AREAS
- EXISTING SIDEWALKS
- EXISTING BIKE LANES
- PROPOSED TRAIL LINKAGES
- EXISTING TRAILS
- HERNDON CREEK TRAIL (DURHAM COUNTY TRAIL SYSTEM)
- NORTHEAST CREEK TRAIL (DURHAM COUNTY TRAIL SYSTEM)
- EXISTING PARKS AND OPEN SPACE ENTRANCES
- POOL FACILITIES

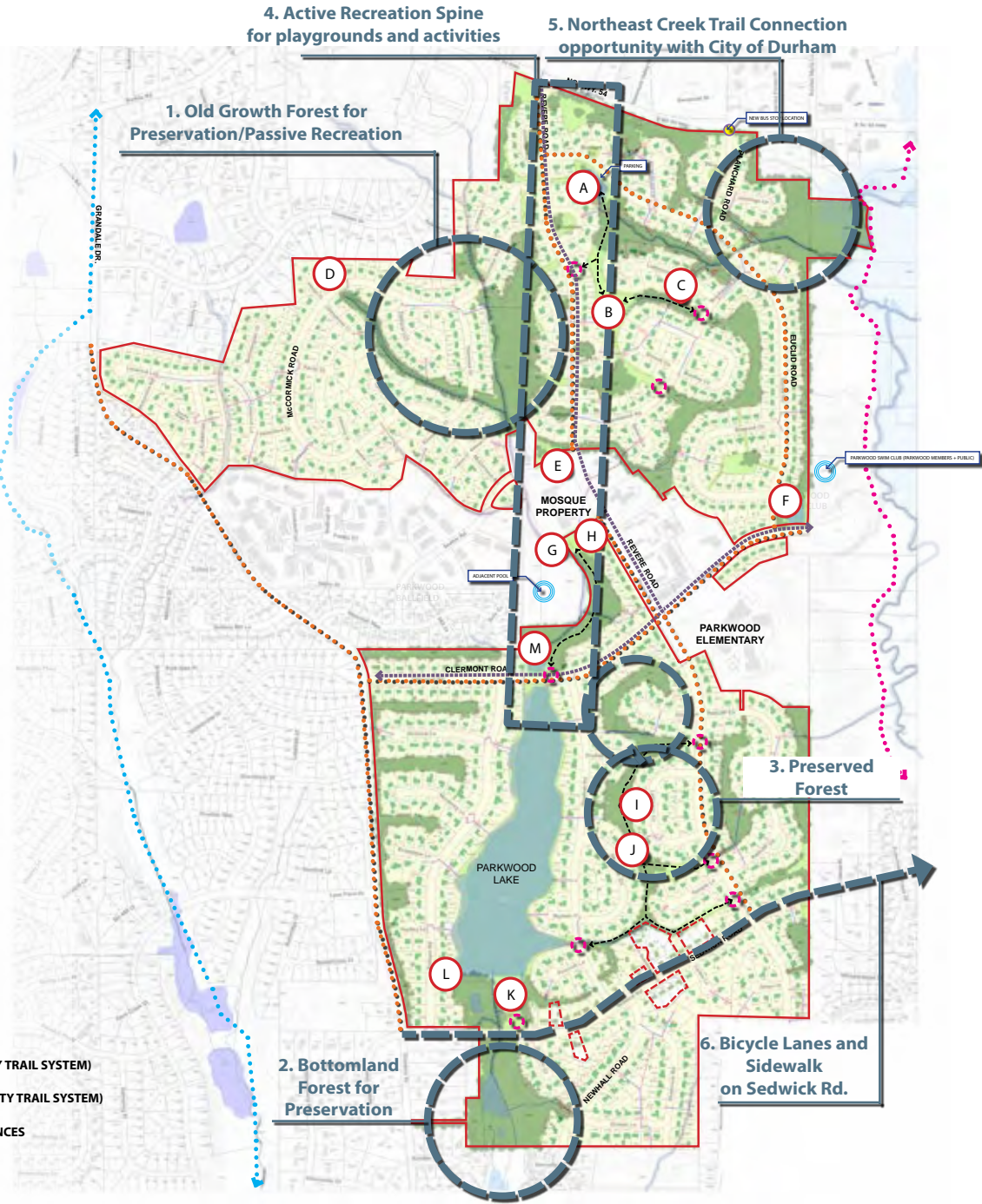


Figure 5.01: Parkwood Opportunities and Constraints Analysis

PARKING ANALYSIS

PARKWOOD PARKING ANALYSIS

Access is a key factor for individuals to enjoy the parks and recreation opportunities in Parkwood. Expanded parking was identified as a way for increasing access for the community. The following analysis describes options and considerations to expand parking in key areas of the community. However, it is important to note that many residents expressed their preference to walk to nearby open spaces rather than drive.

1. Euclid Pond - This area could serve to provide parking for Euclid Pond and Hidden Park. We believe roadway widths allow for the possibility of parallel parking on Euclid Road bordering the park. Increased use of the park through more accessible might warrant additional parking at this location.

- Option A:** Add parking to the existing lot.
- Considerations:* Adding parking to the existing lot at Euclid Pond will reduce the recreation area available for future programming on the north bank of the pond. Add at least one accessible parking space in the parking area re-design.
- Option B:** Opportunity exists to expand visitor parking to the median of Burbank Circle.
- Considerations:* Benefits to moving the parking area to Burbank Circle include reduced maintenance of landscaped median. Sidewalk already exists. Add crosswalk between parking and recreation area and include one ADA accessible space to the parking lot
- Option C:** Allow parallel parking along one side of Euclid Road.
- Considerations:* Euclid Road is approximately 26 feet wide which is a common width for residential streets in Durham. Parked cars will create additional "edge friction" and calm traffic. There is a possibility of a maximum of 10 parallel parking spaces.

2. Northeast Creek Trail - As Durham's trail system expands, an opportunity for a trailhead exists to connect Parkwood with the future greenway. This trailhead could be located within the 6-acre parcel that the association holds and include parking.

3. Northern Edge - This area could serve to provide short-term parking for people wanting to load and unload a boat at the north side of Parkwood Lake. In the context of the plan, this is the southern terminus of the "Active Recreation Spine" and identified as a potential boat launch area.

- Option:** Allow parallel parking along one side of Clermont Road.
- Considerations:* Clermont Road is approximately 30 feet wide and could allow for parked cars on the north side of the roadway. Parked cars will create additional "edge friction" and calm traffic. There is a possibility of a maximum of 5 parallel parking spaces.



Figure 5.02: Parkwood Parking Analysis

Expanded parking was identified as a key strategy for increasing access to recreation and open space opportunities in Parkwood. The suggested parking recommendations for each park condition include the following:

- **Mini-Parks:** Provide on-street parking as street frontage allows.
- **Community Parks:** Permanent on-site parking is appropriate for this type of park
- **Linear Parks:** On-street or off-street parking may be appropriate at trailheads

4. Pelham Park (Dam Area) - This area on the southwestern edge of Parkwood Lake is served by on-street parking.

- *Considerations:* Pelham Road is approximately 24 feet wide and currently no restrictions are in place for parked cars. This site can serve as an example for other areas where on-street parking is being evaluated because the width of the street affords parking spaces for cars. With ideal frontage and a deep park area, more parking could be served by pull-in parking (off of the street).
 - Option A:** Opportunity exists to evaluate and designate parallel parking along the street.
 - *Considerations:* This may be a more cost effective solution by using minimal signage and street painting for visibility.
 - Option B:** Create pull-in parking for safer use of getting into and out of a car.
 - *Considerations:* Pull-in parking is more expensive and would need a new curb and parking surface to be created. Additional costs would go into wheel stops and limited signage.

5. Newhall Road Access - This area could serve to provide parking for the small recreation area on the southeast side of Parkwood Lake. In the context of the plan, this is identified for a potential boat launch area and proposed trails. At least one of the proposed parking spaces should be accessible for handicap and elderly visitors.

- Option A:** Allow parallel parking along one side of Newhall Road.
 - *Considerations:* Newhall Road is approximately 25 feet wide and parking restrictions are in place for parked cars. Parked cars will create additional "edge friction" and calm traffic. There is a possibility for a maximum of 5 parallel parking spaces. Add at least one accessible parking space in the parking area re-design.
- Option B:** Create pull-in parking along western side of Newhall Road.
 - *Considerations:* Additional consideration should be accounted for in location of culvert and outlets. Pending the exactly location of pipes, approximately 5 pull-in parking spaces could be afforded.

6. Parkwood Shopping Center - While not owned by the Parkwood Association, with well over 100 spaces, this lot is the largest parking area in the Parkwood community. The ballfield and ballfield playground utilize this parking area. With a shared-use agreement, this parking is invaluable to the use of the baseball field and should be maintained for continued access to trails and recreation facilities.

- 7. Tot Lot** - This small recreational facility for children is served by on-street parking.
- Option:** Create pull-in parking spaces (3 maximum) at entry to the Tot Lot from McCormick Road.
 - *Considerations:* McCormick Road is approximately 30 feet wide and currently no restrictions are in place for parked cars. This site can serve as an example for other areas where on-street

parking is being evaluated. Pull-in parking should be considered for safety.

8. Sedwick Park - The park on the south end of the lake currently has a gravel parking lot with space for up to 12 vehicles.

- Option:** Expand the parking area at Sedwick Park to include at least one accessible space and additional parking spaces to accommodate larger community events and activities.
 - *Considerations:* Due to lack of sidewalks and shoulders on Sedwick Road, on-street parking is not recommended in this location.

9. Emerald Pond Park - This small recreational facility is served by informal on-street parking in a gravel area on Clermont Road or potentially by those who park in the Swim Club parking area. The parking is not located near the recreation space.

- Option:** Expand parking on Clermont Road near sidewalk and curb ramps on Euclid to allow for park use by strollers and persons with disabilities.
 - *Considerations:* Clermont Road is approximately 24 feet wide and parking restrictions are in place for parked cars. Parked cars will create additional "edge friction" and calm traffic. There is a possibility for a maximum of 8 parallel parking spaces.

10. Neighborhood Circles - The viability of parking places should be considered on a case-by-case basis, ensuring that neighboring residents are in support of such parking additions. The reasoning for adding parking in these locations is two-fold, protecting existing trees and providing opportunities for small neighborhood gatherings. There is potential to provide formalized parking spaces that help to regulate the way in which cars park along this street. In addition, by designating parking places outside of root zones of shade trees, the trees can be protected and preserved.

- Option:** With support from homeowners, add parallel parking places along the street, maintaining the width of the road for passing vehicles. With the various circle roadways located in close proximity to proposed recreational spaces, additional signage would be necessary to regulate the duration of parking and ensure there are clear instructions on how to access the nearby recreational spaces. Note that a typical parallel parking space occupies approximately 20 linear feet.

11. ADA Accessible Parking - Accessible parking for handicap and elderly residents and visitors should be located at key locations distributed throughout Parkwood. These key locations include Euclid Pond, Sedwick Park, Newhall Road, the proposed boat dock at Parkwood Lake, Parkwood HOA office, and the ballfield. At least one accessible parking place at each of these locations will ensure equal access to trailheads and areas anticipated to be recreational hubs in the community.

EXISTING AMENITIES

ASSESSMENT of CURRENT STRUCTURES

Re-use of existing parks structures was evaluated to determine the level of need for replacement of the equipment, especially children's play structures, to reduce the potential for accidents and injuries. Periodic safety checks should be performed on all playground equipment. The surfacing under and around playground equipment is one of the most important factors in reducing the likelihood of serious injuries and fatalities. A checklist was used to evaluate each playground area and the key results are given.

- 1. Ballfield Play Area -
 - A significant amount of rust is located at the base of all metal play equipment in the park.
 - Existing seesaw is warped. A bare sharp metal plate is exposed at the site of the missing seesaw. Rusted bolts pose a safety risk on underside of seesaw.
 - Wood chip depth does not meet loose-fill surface type requirements (9" minimum).
- 2. Ballfield -
 - Existing bleachers have a significant amount of rust.
 - Shed siding is damaged, needs painting, and roof requires replacement.
 - Scoreboard is in need of repair or replacement.
- 3. Euclid Pond Play Area -
 - Currently, there is no accessible entrance to playground area because of ground material edging.
- 4. Sedwick Park Play Area -
 - Wood chip depth does not meet loose-fill surface type requirements (9" minimum).
- 5. Hidden Park Play Area -
 - Seesaws are warped with rusted bolts exposed on underside.
 - Rusted S-hooks on swings.
- 6. Tot Lot -
 - A significant amount of rust is located at the base of the metal swingset.
 - Swinging bench structure is warped and rusted. Wood slats are in need of replacement.
 - Weeds and overgrowth should be removed along fenceline (asset protection).
 - Wood chip depth does not meet loose-fill surface requirements under swingset (9" minimum).
 - Further study is needed through a detailed site design process to address drainage issues.

PLAY AREA SURFACE REQUIREMENTS

According to the Public Playground Safety Handbook by the US Consumer Product Safety Commission, there are two options available for surfacing public playgrounds: unitary and loose-fill materials. Playgrounds require some type of resilient safety surfacing to be installed under equipment where falls and injuries may occur. Unitary materials are generally rubber mats and tiles or a combination of energy-absorbing materials held in place by a binder that may be poured in place at the playground site and then cured to form a unitary shock absorbing surface. Loose-fill materials are generally landscaping-type materials that can be layered to a certain depth and resist compacting. Some examples include wood mulch (non-chromated Copper Arsenate treated), wood chips, sand, pea gravel, and shredded/recycled rubber mulch. Loose-fill material should be 9" in depth depending on fall height, except when using shredded/recycled rubber but should also be avoided on playgrounds intended for toddlers.

- The recommendations for protective surfacing do not apply to equipment that requires a child to be standing or sitting at ground level. These include:
- Sand boxes
 - Activity walls at ground level
 - Play houses
 - Any other equipment that children use when their feet remain in contact with the ground surface

Every public playground requires some type of resilient safety surfacing to be installed under the equipment to reduce injuries and provide a level of safety and accessibility for playground users.

Common Loose Fill Materials	Minimum Surface Depth (In)	Protects to Fall Height (Ft)
Shredded/Recycled Rubber	6"	10
Sand	9"	4
Pea Gravel	9"	5
Wood mulch (Non CCA treated)	9"	7
Wood Chips	9"	10
Care should be given to maintain a constant depth Loose-fill should be avoided for playgrounds intended for toddlers		

Source: Public Playground Safety Handbook. December 2015; US Consumer Product Safety Commission



1. Ballfield Play Area (off site)

- Remove all metal play structures
- Replace play surface to meet surface requirements



2. Ballfield

- Replace bleachers
- Replace shed
- Replace scoreboard



3. Euclid Pond Play Area

- Provide screening from neighbors
- Consider a fence near the pond
- Add ADA accessible entrance



4. Sedwick Park Play Area

- Replace play surface to meet surface requirements



5. Hidden Park Play Area

- Remove seesaws



6. Tot Lot

- Remove swingset and swinging bench
- Remove woodchips and install age-appropriate play surface
- Remove weeds

Figure 5.03: Parkwood Play Area Analysis

ADJACENCY ANALYSIS

The following chart shows the relationship between different park elements, including pathways and trails, active-oriented uses, passive recreational areas, and public spaces. Different park elements require separation while others have a close relationship to other elements and provide benefits to users from being located in proximity. These adjacency relationships highlight opportunities for overlapping uses or functions and were used to help develop the recommendations given in the next chapter.

RECREATION ELEMENTS

Connectivity Elements

Pathways and Trails may be incorporated into park facilities, but may also be the sole purpose of a facility. Communities provide urban paths and trails for their recreational value. Trails and paths should be developed to provide linkages between schools, parks, neighborhoods, and the community and should connect with regional trail systems. Connecting bicycle lanes, sidewalks and crosswalks often have a close relationship with these features.

Play Elements and Active Recreation

"Active-Oriented" parks provide facilities that can be used for structured activities such as team sports, individual sports and active play. They are typically intended to serve a larger area and require more support features such as lighting, restrooms, playgrounds, shelters, and parking.

Within this category are a sub-set of areas that serve specific user groups (e.g., disk golf courses, tennis courts, and baseball fields). Design of these facilities should be specific to the needs and desires of the intended user group. These uses should be considered with a full cost-benefit analysis and understanding of operation and maintenance costs.

Passive Areas

"Passive-Oriented" parks include unstructured play, relaxation, family picnics and similar activities. This type of park space allows for non-structured enjoyment. Passive parks support many daily pastimes such as fishing, gardening, or walking through natural areas. These areas are often created adjacent to natural features and can be mowed lawns or more pastoral landscapes as the tall grasses function to clean nearby water supplies.

Support Elements

These include items and buildings that are included to support and enhance recreation spaces. Without them, the usability of the areas they serve diminishes. These include but are not limited to restrooms, shelters, lighting, parking, benches, signage and trash receptacles.

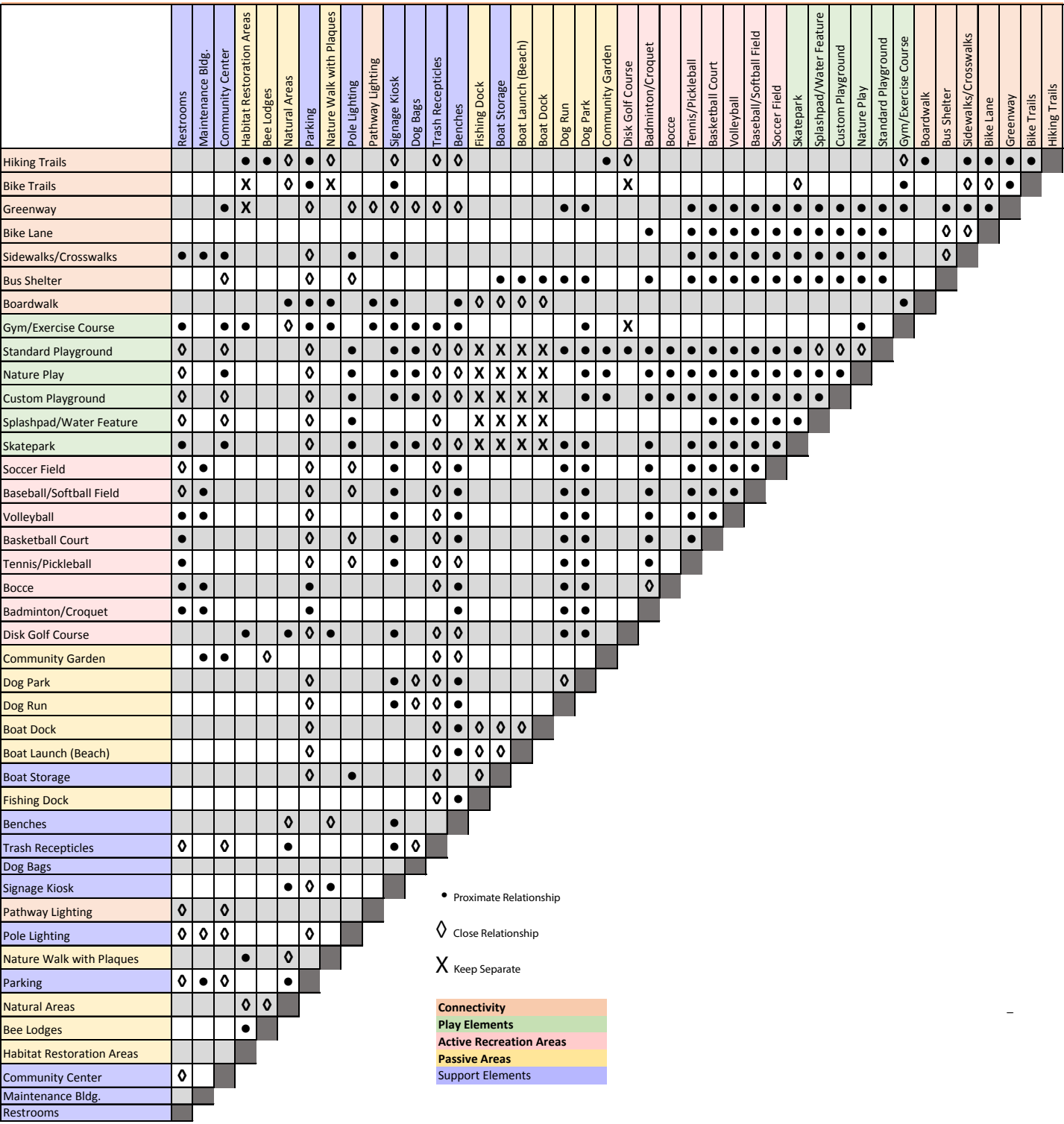


Figure 5.04: Amenities Matrix





Master Plan and Recommendations

6



CHAPTER CONTENTS

- Overview
- Parkwood Master Plan
- Connectivity Plan
- Open Space
- Trail Network Recommendations
- Safe Streets
- Signage Plan
- Activity Enlargements

“ The way to minimize crime on trails is to ensure that users exercise proper safety precautions, keep the trail well maintained, and boost trail use. Crime generally does not occur in places where there are lots of people and few hiding places. Positive-looking places tend to encourage positive behavior.” -*Rails-to-Trails Conservancy Report on 372 Trails*

RECOMMENDATIONS

OVERVIEW

The recommendations are organized in categories. After a thorough review of Parkwood's existing open space and connectivity, we have several recommendations that are illustrated in maps on the following pages. The recommendations can generally be broken down into the following over-arching categories.

+ Trails and Open Space:

One of Parkwood's most appealing attributes is the prevalence of open space throughout the community. By preserving and connecting these spaces through a trail system, all residents will be able to recreate through these spaces while maintaining the habitat biodiversity.

+ Renovate Mini-Parks:

There are several existing parks that could use renovation and enhancement to improve their use and functionality.

+ New Facilities:

New facilities are suggested in existing open space in order to create new amenities in these spaces. Lighting and accessibility should be considered in these locations.

+ System Mapping:

By mapping the entire park and trail system, the community will have a clear understanding of their amenity package and will be better able to utilize existing parks and open space.

+ Signage and Wayfinding:

The parks and trails would benefit from increased signage to identify parks and trailheads. A hierarchy of signage types will allow residents to find amenities and follow trails.

+ Programming:

Additional programming opportunities are identified in both existing parks and proposed amenity areas. The program components complement each other to provide varying experiences across the community. There are often grant opportunities for amenities like pollinator gardens, which can help with the cost of implementation.

PARKWOOD MASTER PLAN

The Parkwood Open Space and Park Master Plan indicates locations and types of programs for enhanced amenities at existing parks, new program elements at existing open space, and suggested locations for key trailheads. Trails are shown to illustrate how the parks and open space are connected by different trails and sidewalks.

Areas to be preserved as open space that will not be programmed are indicated in light green on this map. There is more detailed information about these spaces later in this chapter (page 62). These spaces include pastoral open spaces requiring minimal maintenance and others include mowed lawns intended for use as sports and recreation fields.

The goal of the master plan is to enhance what is existing and add elements to distribute amenities throughout the community, connecting those spaces through a series of walking trails. While all proposed recreation areas are considered viable sites for the suggested use, not all recommendations are intended to be implemented. It would be most beneficial for the Parkwood Community to consider pairing a playground with a shelter or a recreational greenspace with another use to maximize the functions of already established communal spaces and ensure that they are equally accessible via the walking trail. In addition, it is recommended to distribute these facilities and amenities across the neighborhood, establishing recreational spaces as a hub in each of the northern, middle, and southern portions of the neighborhood.

Create Trails through Open Space

Renovate Mini-Parks

Construct New Facilities

Provide Signage and Wayfinding

Create a System Map

Develop Programming

Parkwood's open space network represents an incredible opportunity to attract and retain homeowners. Trails are one of the most highly sought after amenities and have the ability improve quality of life and health for all residents.

PARKWOOD MASTER PLAN: NORTH



Figure 6.01: Parkwood Master Plan

PARKWOOD MASTER PLAN: SOUTH



LEGEND

- PROPOSED NEW ACTIVITY AREA
- EXISTING AND IMPROVED ACTIVITY AREA
- PROPOSED SPINE TRAIL (PAVED)
- PRESERVED/RECLAIMED NATURAL AREAS
- PROPOSED EASEMENT
- EXISTING BIKE LANE
- PROPOSED BIKE LANE
- PROPOSED ADVISORY BIKE/WALK LANE
- EXISTING SIDEWALKS
- PROPOSED SIDEWALKS
- EXISTING PARKWOOD TRAIL IMPROVEMENTS
- PROPOSED NATURAL SURFACE TRAILS
- ACTIVE SPINE TRAIL
- PROPOSED DURHAM GREENWAYS (FUTURE)
- EXISTING CROSSWALK
- PROPOSED CROSSWALK
- EXISTING TRANSIT STOP
- TRANSIT STOPS SERVING PARKWOOD
- See DETAILED ACTIVITY VIGNETTES in Chapter 6

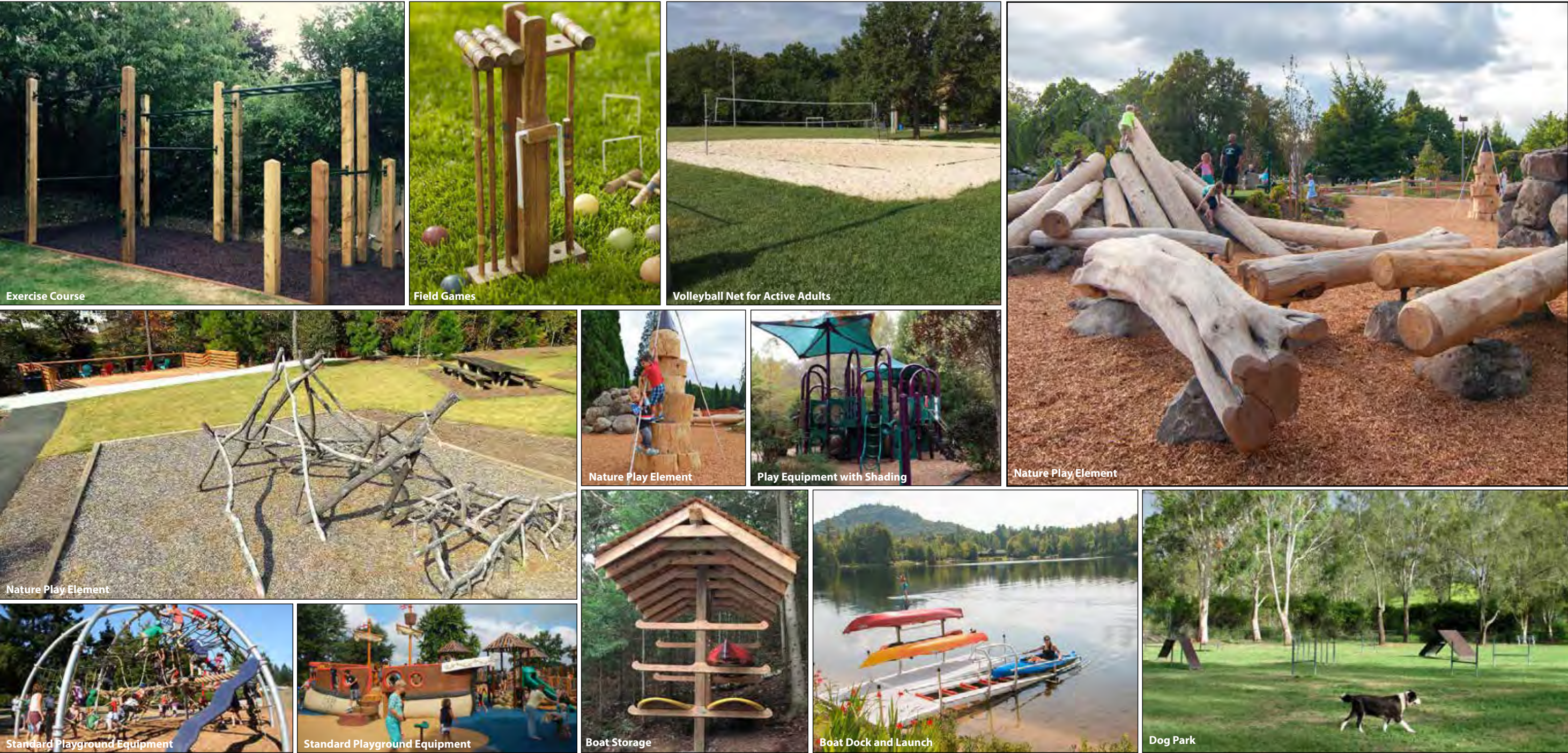


Figure 6.02: Example Amenities

In a study on the American Tobacco Trail, researchers found that there "was a negative correlation between "Greenness" and crime locations. This means that the greener the trail, the less crime locations."
- Social Justice as it Pertains to Safety on the American Tobacco Trail



Figure 6.03: Example Amenities

COMMUNITY CONNECTIVITY

CONNECTIVITY PLAN

The recommendations are for the community to be connected through a series of improvements that emphasize the existing natural surface trail network, augment this system through paved trails in key locations that benefit users of all ages and abilities, and improve the street connections to bring access and visibility to the entire network.

Trails and Open Space

Many survey responses highlighted that trails are one of the most highly sought after amenities. Parkwood has a legacy system in place that in many ways has been largely forgotten or is unknown by the Parkwood Community as a whole. Most large housing developments created over the past 50 years without a regulating system in place to require additional open space do not have the connectivity and open space opportunities that Parkwood has to offer. This presents a tremendous opportunity for Parkwood to not only attract homeowners, but also to improve the quality of life and health for the residents.

Recommendations for the trail network include the creation of an **"Active Recreation Spine,"** connecting recreation areas of importance for people of all ages and abilities. In addition, a system of secondary natural surface paths is recommended to provide recreation opportunities and connectivity throughout the community while retaining the character and quality of open space desired by many residents.

A **"Secondary Natural Surface Trail Network"** is proposed for both the southern and northern parts of Parkwood. This secondary natural surface trail network is envisioned to connect areas of passive recreation and connect new trails to a few activity centers in parts of the neighborhood that are farther from the central spine. In all parts of the network, clear access where the trail meets the roadway, signage at decision points and marked crossings are key to providing a visual cue to trail users regarding public vs. private space and to increase user comfort and safety. The existing trails are a great asset to this network but are overgrown, need reinforcement in many places, and in a few cases bridges require maintenance.



District 4
Figure 6.04: Existing Conditions

Streets and Safety

Obvious connections are made between the residences to Parkwood and the greater community through street and sidewalk improvements. These improvements are geared to improve the safety and usability of the network for residents of all ages and abilities and generally improve conditions for people who walk, bike, and take transit. These recommendations generally take the form of sidewalks, bike lanes, crosswalks, and transit stop improvements. All of these improvements enhance bikeability and walkability.

The Crossing Plaza is recommended to protect pedestrians at Clermont Road where pedestrians will likely want to traverse the road to access either the trail or overlook. Marking on the pavement will help to slow traffic and ensure easy and protected access for pedestrians in this area.

Long-Term Connectivity Projects

Recommendations are made to preserve and augment connections to future trails in Durham County's Master Plan. If at some point in the future, these trails are built out, recommendations to connect Parkwood to those trails are made for both the Herndon Park Trail and the Northeast Creek Trail.

OPEN SPACE

One of Parkwood's most unique qualities is its open space. The plan does not recommend any new open space, although some stewardship is required to maintain the existing open space and keep plant and animal communities healthy. Parkwood should assess encroachment of private properties on community open space and take remedial action if necessary. It is recommended to also do an assessment of water quality to ensure any potential consumption of fish from water bodies is safe. Allow those assessments to inform necessary next steps for proper signage and/or remediation. Parkwood has already taken steps to monitor and preserve its water bodies and this plan supports increasing water quality and improving lake ecosystems. These actions reinforce the recommendations to improve parks and recreation activities along the waterfront outlined in this plan.



RIPRAP: typically made from rock or other stone material to protect shorelines and streambeds from erosion

Invasives Assessment and Removal

Invasive, non-native plants are a serious threat to native species, communities, and ecosystems in many areas in the Southeast. Invasive species can compete with and displace native plants and animals. They can alter ecosystems' functions, structures, and cycles. It is recommended that Parkwood hire a consultant to conduct an invasives assessment and plan for removal of these species. Parkwood residents can be trained during this process on identification and be involved in the monitoring and maintenance of invasives.

TRAIL NETWORK RECOMMENDATIONS

Shown in Figure 6.05, the four parts of the proposed trail network are shown in shades of green. Street recommendations shown on this map in grey complement the trail network and are discussed in detail in the next section. While the Spine Trail and Lake Loop are packaged as separate projects, the improvements for the North and South natural surface trail networks could be performed in tandem.

- **TRAIL NETWORK #1: Parkwood Spine Trail** - In the center of Parkwood, recommendations are made to create a paved multi-use trail as an active recreation spine connecting destinations within the community. This spine would terminate at a crossing plaza that connects both sides of Parkwood Lake Park which would create a gateway link between Parkwood Lake and the north. We recommend this main trail to be paved to accommodate those with disabilities and strollers. In addition, the proposed portion of trail needs to be further protected from erosion with added riprap.
- **TRAIL NETWORK #2: Parkwood Lake Loop & Cyclist Circuit** - For many residents, Parkwood Lake appears an amenity only for those who have direct access to the lake. A lake trail was highly sought after in the public comments as walkers, runners, and bicyclists all understand the physical and mental health benefits that a simple loop around a body of water can have on their daily lives. Due to private property, a trail around the perimeter of Parkwood Lake is unlikely to gain traction with residents. The Parkwood Lake Loop is presented as an alternative recommendation which offers 3 clear views of the lake and has the added benefit of providing a north-south "trail" connecting through the southern portion of the neighborhood. Options are given in Figure 6.10. The Parkwood Lake Loop also connects with a proposed bike lane infrastructure that allows cyclists to circulate through the neighborhood beyond Parkwood Lake.
- **TRAIL NETWORK #3: Parkwood North Trails** - A new connection to the Tot Lot is proposed to reach into the portion of the community that is currently underserved by parks and open space amenities. This natural surface trail leads to the active recreation spine as well as a new trail that rings the mature trees called the Old Growth Trail. To the east, the natural surface trail is expanded toward Clermont Pond Park to reduce walking distances and provide an alternative connection to Parkwood Elementary School.

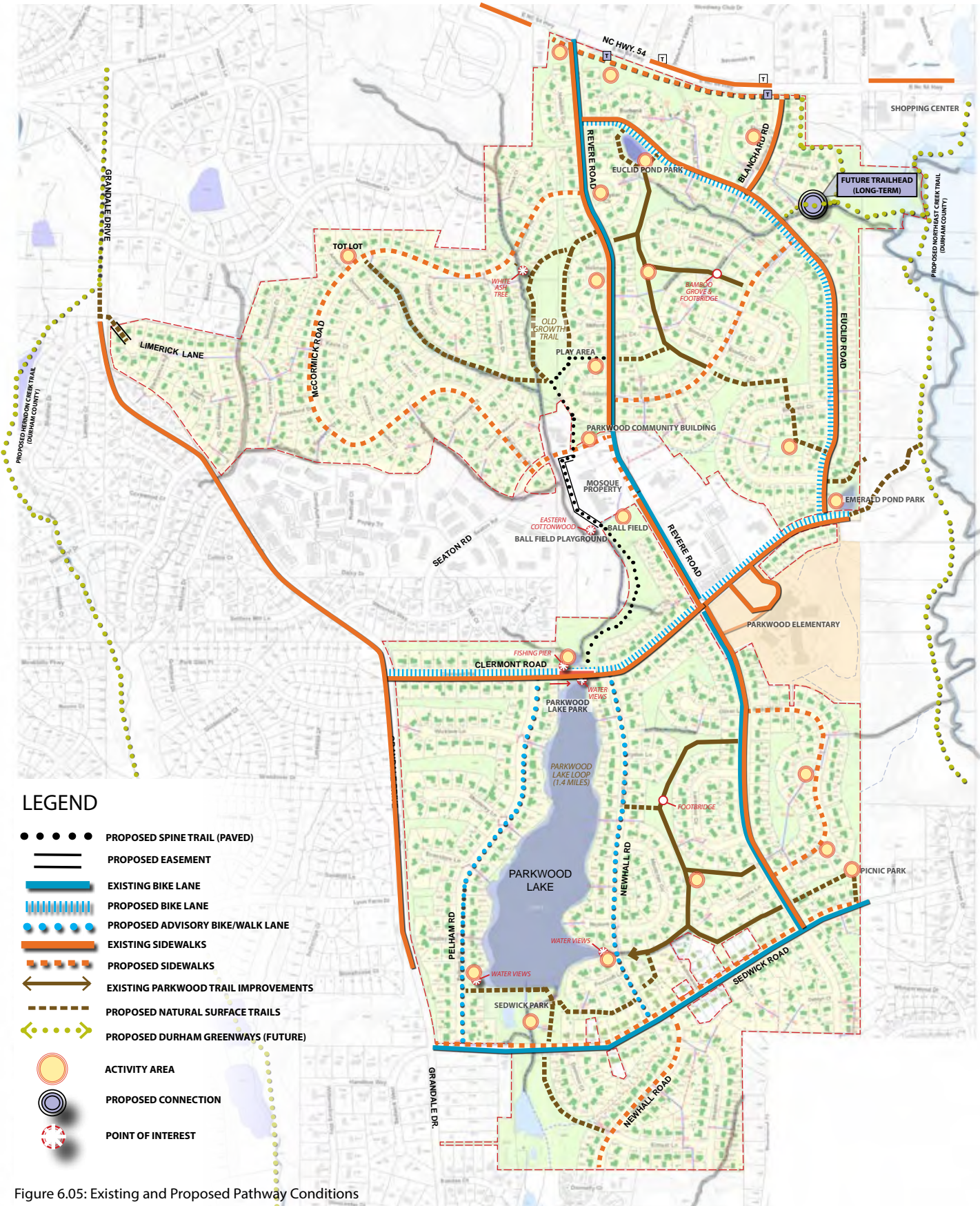


Figure 6.05: Existing and Proposed Pathway Conditions

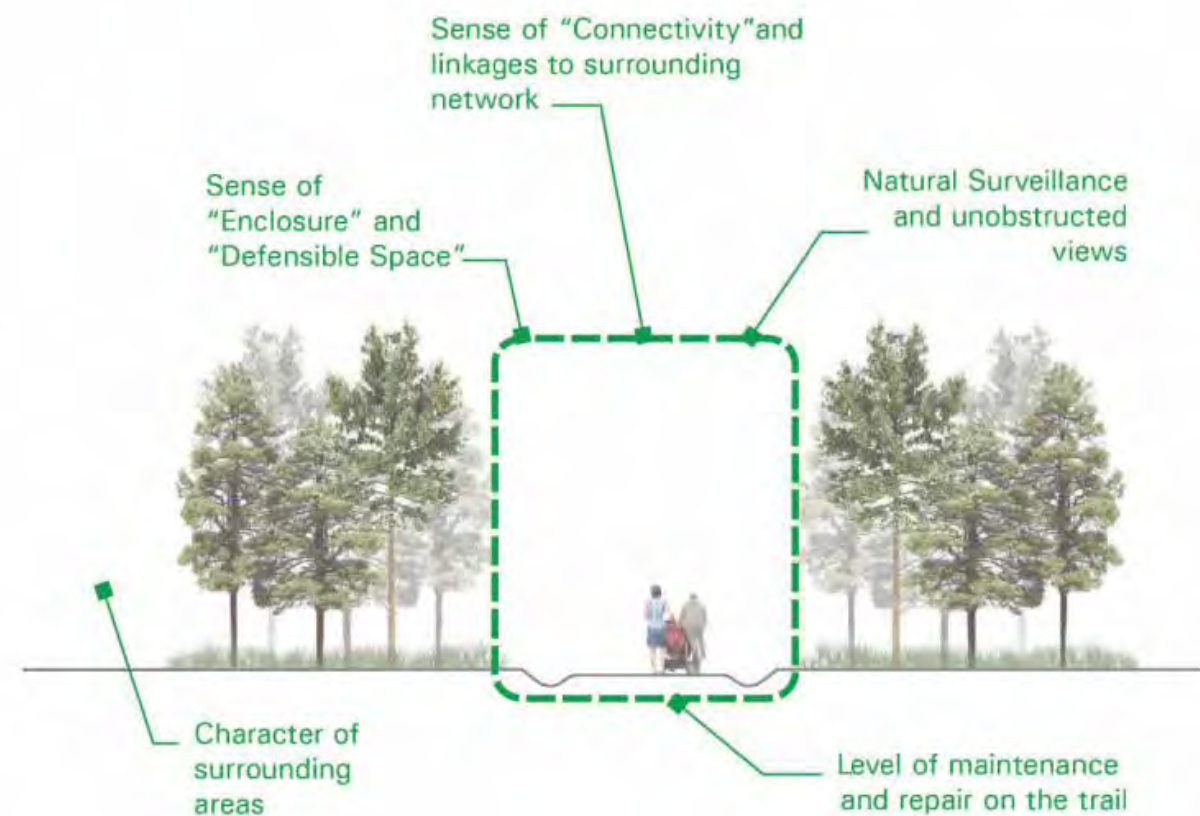


Figure 6.06: Physical characteristics of trails that contribute to safety. (Source: [http://www.triangletails.org/pdfs/ATT_report_finaldraft_6_5_15\(2\).pdf](http://www.triangletails.org/pdfs/ATT_report_finaldraft_6_5_15(2).pdf))

- **TRAIL NETWORK #4: Parkwood South Trails** - In the south, the trail network is envisioned to radiate from Sedwick Park, where a variety of active open space improvements are proposed, including a short paved multi-use path that serves park users. The existing network is maintained and there are new connections to Picnic Park on the eastern end.
- **LONG-TERM CONNECTIVITY PROJECT: Northeast Creek Trailhead** - It is recommended this area be preserved for a future trailhead that could be constructed during the development of the Northeast Creek Trail. It may be possible to negotiate other amenities in the planning stage, such as restrooms, water fountains or other trailhead features.

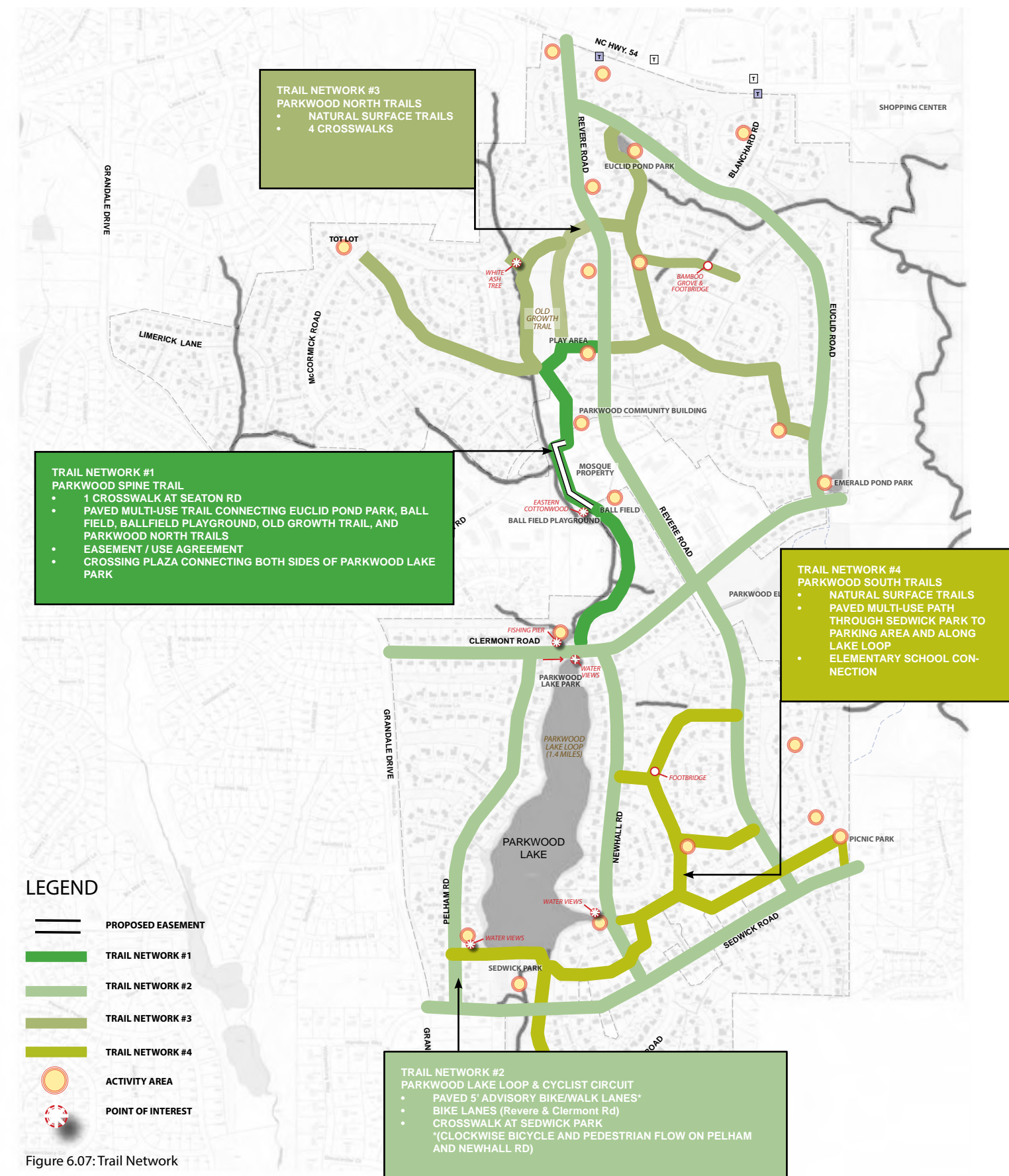


Figure 6.07: Trail Network



SHARROW: a shared-lane pavement marking, used to tell bicyclists where they can safely ride and alerts motorists where to expect cyclists.

Options for Parkwood Lake Loop

This 1.4 mile loop is accomplished by providing space for recreational bicyclists and pedestrians along Pelham and Newhall Rd. Three options are presented for the roadway configuration (Figure 6.04) with a preferred bicyclist and pedestrian flow in a clockwise direction. This is recommended so that bicyclist and pedestrian movements make right turns, reducing conflict points with motor vehicles.

The traditional approach (Figure 6.09), involves adding a sidewalk and one-way shoulder for bicycling. Note that in this option, parallel parking is eliminated due to the road width. Two other options are presented to accomplish a loop primarily with pavement markings since sidewalks can be difficult to retrofit. An option for advisory lanes (middle image, Figure 6.09) shows a street where priority is given to bicyclists and pedestrians in the outer lanes, while traffic shares the middle lane and moves over to pass another vehicle if one approaches. This alternative street design is used extensively in some European countries and is becoming more common across the US as an alternative on low-volume streets, especially where high volumes of bicyclists and pedestrians are expected. An option for an 8' multi-use lane (bottom image, Figure 6.09) would involve a one-way street conversion for Pelham and Newhall to achieve the width necessary to provide a protected lane, increasing comfort for cyclists. For the middle and bottom option, a trial installation could be performed using temporary materials (i.e. tape or chalk paint) for residents to try the configurations and give feedback.

Pelham Road is roughly 26-feet wide and community members voiced a desire to keep two-way traffic and provide parallel parking on at least one side of the street. Given these parameters, we recommend a modified version of the advisory lanes option with a narrow two-way drive, parallel parking, a sharrow marking, and a 5' multi-use advisory lane for pedestrians.

Parallel parking should be limited to the west side of the road to allow pedestrians to walk on the side closer to the lake. Currently portions of Pelham Road do not permit parking. If residents decide to designate parking on Pelham Road, Parkwood will need to ask The City to remove the "NO PARKING" signs.

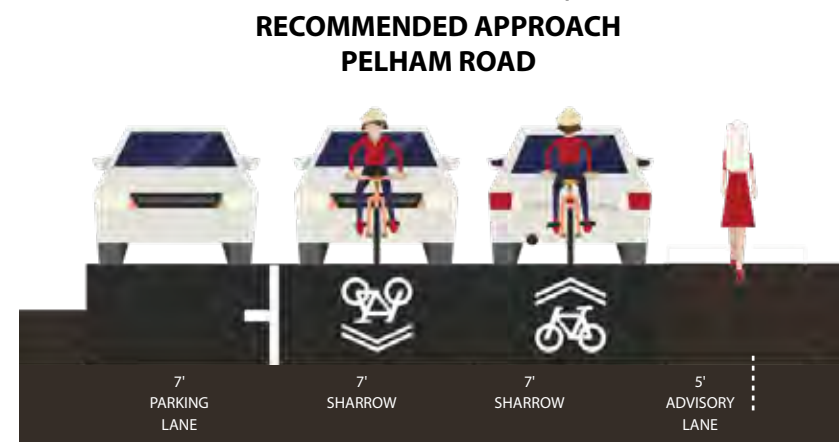


Figure 6.08: Pelham Road Recommendation

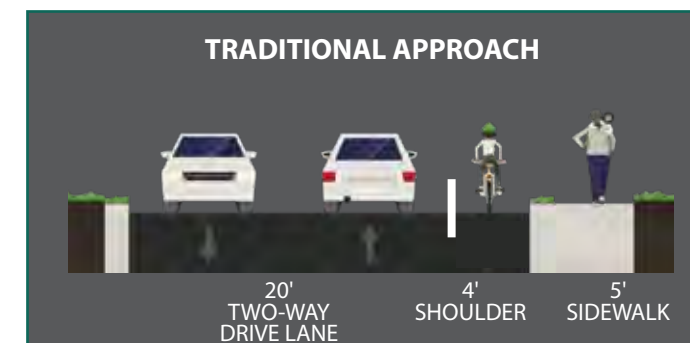


Figure 6.09: Proposed Parkwood Loop Options

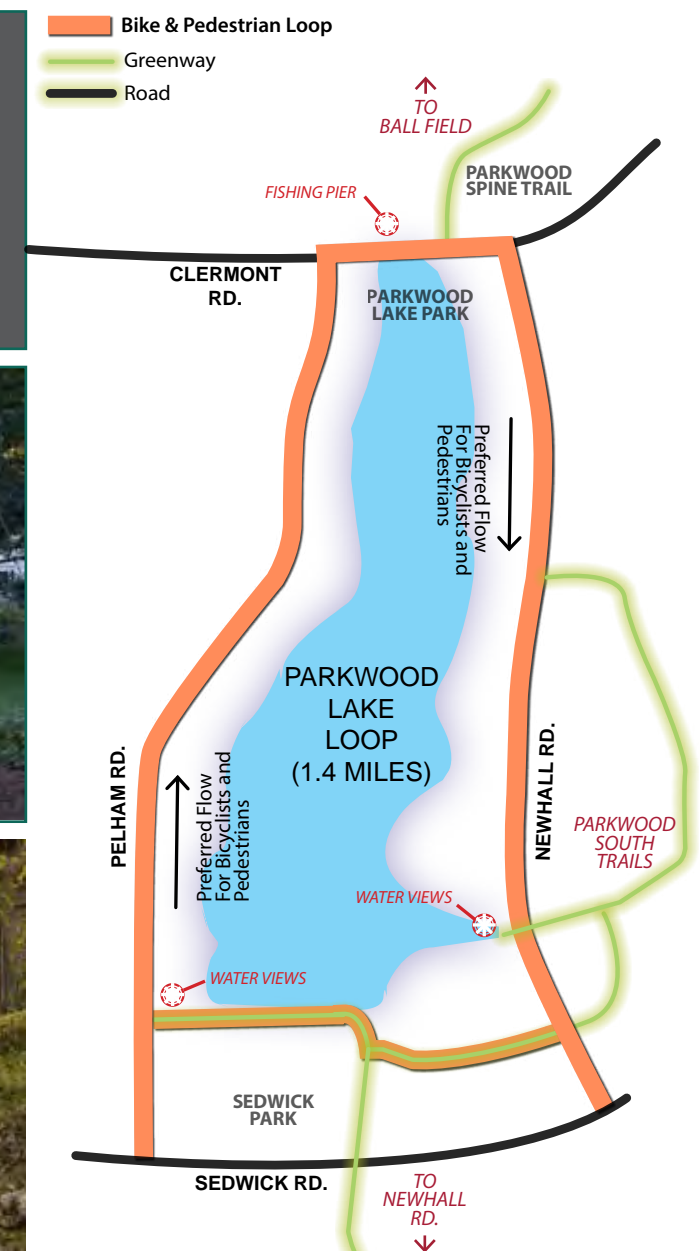


Figure 6.10: Proposed Parkwood Loop

SAFE STREETS

The following recommendations are given to improve access to parks and recreation within Parkwood but also to connect Parkwood to opportunities within the greater community and City of Durham. Improvements are broken down to be completed as a series of projects to complete gaps in the network and improve safety and circulation for bicyclists and pedestrians in Parkwood. Crosswalks are recommended, not only to improve visibility for pedestrians crossing, but to inform residents of the presence of the natural surface trail network and its access locations. Curb ramps should be installed at the time of sidewalk improvements to achieve ADA Compliance and improve accessibility. The community could use their own resources to install sidewalks and crosswalks but would need to go through a permitting process with the City of Durham and would be required to have construction documents and a General Contractor on board to make these improvements. It is recommended to submit all sidewalk and crosswalk improvements in the same review to the City.

These projects are listed in order of priority. The projects are shown and described in greater detail in the map at right. Specific information involving implementation can be found in the next chapter.

- **CONNECTIVITY PROJECT #1: Revere Road Improvements** - Complete sidewalk gaps to connect Parkwood with the Shopping Center. Improves access to Parkwood Spine Trail as well as the Northern and Southern Trail Network and the parks that these trails serve.
- **CONNECTIVITY PROJECT #2: Sedwick Road Improvements** - Due to the volumes of 7000 Annual Average Daily Traffic (2015 NCDOT) on Sedwick Rd., sidewalks and bike lanes are recommended to complete gaps in the existing network with crosswalks at Sedwick Park to complement proposed trail and park improvements.
- **CONNECTIVITY PROJECT #3: NC Highway 54 Improvements** - Transit stop improvements, sidewalk, and crossings are needed to connect residents with greater transportation options, commercial areas, and neighborhoods outside of Parkwood.
- **CONNECTIVITY PROJECT #4: Peripheral Road Improvements** - Bicycle lanes, crosswalks, and a curb ramp to improve accessibility complete the network on Euclid Rd. and Clermont Rd.

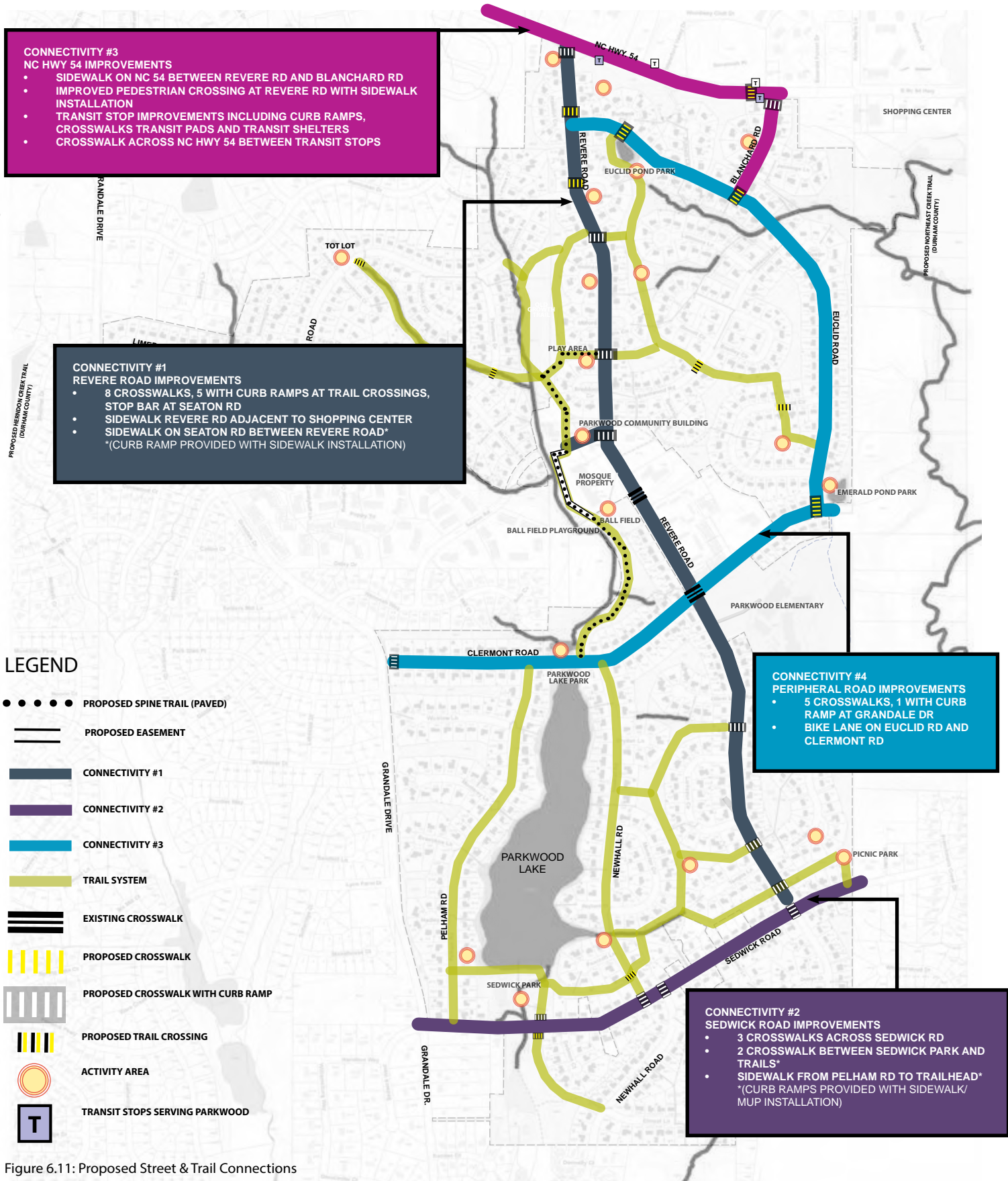


Figure 6.11: Proposed Street & Trail Connections

SIGNAGE AND WAYFINDING

SIGNAGE and WAYFINDING PLAN

The Parkwood signage plan should include identification, directional and educational signage. The signage should be made of similar materials and use the same text fonts in order to create a comprehensive package that reads consistently throughout the community.

Signage and Wayfinding Hierarchy

The signage for each category of park or open space should have a similar look for ease of recognition.

- Larger parks with amenities (Euclid Pond, ballfield, Clermont Pond, lake overlooks, Sedwick park)
- Smaller amenity areas
- Trail heads

Wayfinding

It is recommended that a trail map be created to provide residents with a clear indication of where the trails are located, how long they are and where they lead. The trail map included in this document is a great starting point and can be enhanced by the community with colored blazes to identify different trail segments and destinations. The trail map should indicate which trails are stroller and wheelchair accessible, which trails allow bicycles, and which are natural surface. Gaps in the trail system should be completed in order to provide a clear and comprehensive circuit.

Signage along the trails should include a kiosk with trail maps at trailheads, smaller posts with colored blazes along trails for directional signage and mile markers to indicate distance. Examples of each are included in the images to the right.

Educational Signage

Signage educating the public on various elements such as native plantings, bioretention areas, community gardens, pollinator gardens, water quality improvements, etc. should be added where appropriate. An example of this type of signage exists currently at the HOA building and is a great way to inform the community of initiatives and encourage the well-being of environmental systems. Understanding efforts that have been made to clean up the lake water, remove invasives species and preserve wildflowers will allow residents to feel a sense of ownership and buy-in to the initiatives, which will create more advocates and less deterioration of these spaces.

Rules and Information Signage

An additional category to consider is informational signage to indicate usage rules within parks and trails, such as hours of use, dogs allowed on leashes, no loud music, etc. These rules should be determined by the community.

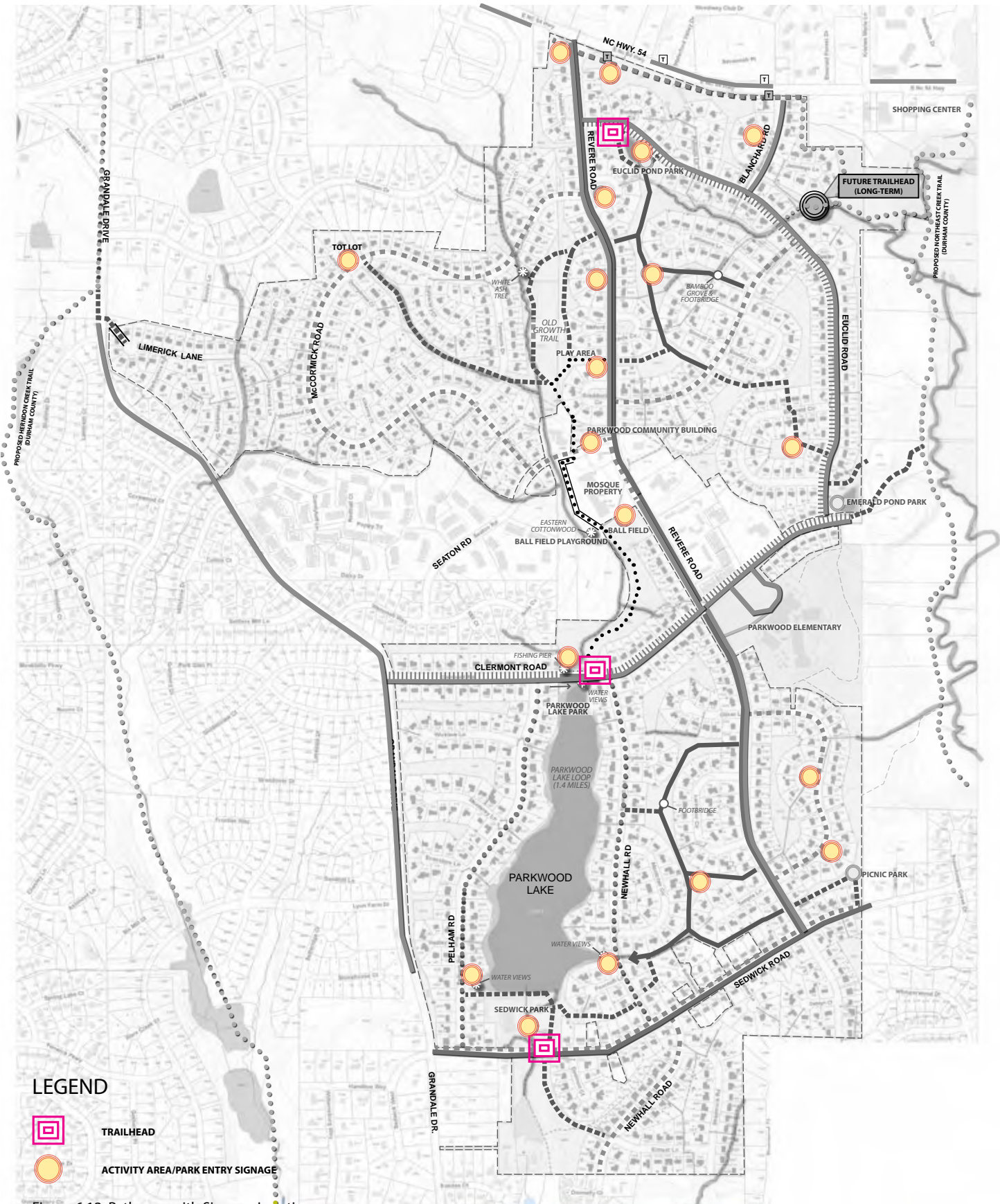


Figure 6.12: Pathways with Signage Locations



Figures 6.13, 6.14, 6.15: Trailhead and Milemarker Signage

Figure 6.16, 6.17, 6.18, 6.19: Park Entry Signage

Example Signage

Trailheads should be noted with larger kiosk style structures to include a map of the trail network, park rules and any additional information relevant to use of the trail system. There should be several key access points to operate as trailheads, ideally paired with other amenities or park facilities to create hubs of activity spaces and centralized information stations.

At each of the activity areas throughout the community, there should be a park sign of consistent style that includes the name of the park space and any relevant park rules applicable to that site. This consistency will communicate the extent of Parkwood's amenities and shared park spaces. These signs make park spaces visible and accessible to both drivers and pedestrians, residents and visitors.

Milemarker signs are typically small structures located along the trail route that note the color or name of the corresponding trail and can include the direction and distance to connect with other trails in the area. These milemarker signs should be placed at quarter-mile intervals. This type of information is also communicated on older forested trails with trailblazer markings using paint or colored plates at eye level on tree bark with the color corresponding to that trail.

Even though the recommended signs have separate functions and scales, they can all still retain a consistent style with similar colors, fonts, and graphics to help unify these separate spaces as a system of recreation as seen in the example below (Figure 6.20).



Figure 6.20: Sign Standard Example (Source: <https://enjoyburlington.com/wp-content/uploads/sites/10/2015/02/WAYFINDING-Sign-System-Family.jpg>)

DETAILED ACTIVITY VIGNETTES

- Recommendations for New Structures & Services
- Recommendations for Improving Existing Structures

ACTIVITY ENLARGEMENTS

The community has prioritized improvements to existing infrastructure prior to funding new improvements. Members of the community have also expressed a desire to preserve natural areas and keep park improvements on already cleared and level land. The analysis revealed a number of structures in need of renovation. This section illustrates examples of park enhancements to existing infrastructure as well as new activity areas at key locations throughout the community, highlighting these spaces along the 'active spine'.

Active Recreation Spine

A connection of active spaces leading from Parkwood's entrance at NC Highway 54 south to Sedwick Road creates an internal network of recreation spaces. These spaces are linked through a series of trails. Within the parks along this 'active spine' programmed elements are visible in the enlargements on this page. The spaces at the entry to Parkwood are spaces that could be used for large community gatherings and dog play. Small cul-de-sac areas along Revere Road have opportunities for small pocket parks of activity for nearby residents or passive recreation with perimeter parking.

New elements include adding picnic tables and trash cans to designate the spaces as usable places with communal amenities. Adding parking spaces and including ADA spaces will allow visitors to easily access these park spaces for those residents that cannot walk there and could provide access to additional adjacent recreational areas if a public connection can be made.

ENTRY WEST: REVERE ROAD & HWY 54



REVERE ROAD OPEN SPACE



Figures 6.21, 6.22, 6.23, 6.24: Trailhead and Park Signage

GOODYEAR CIRCLE & EUCLID POND



HIDDEN PARK



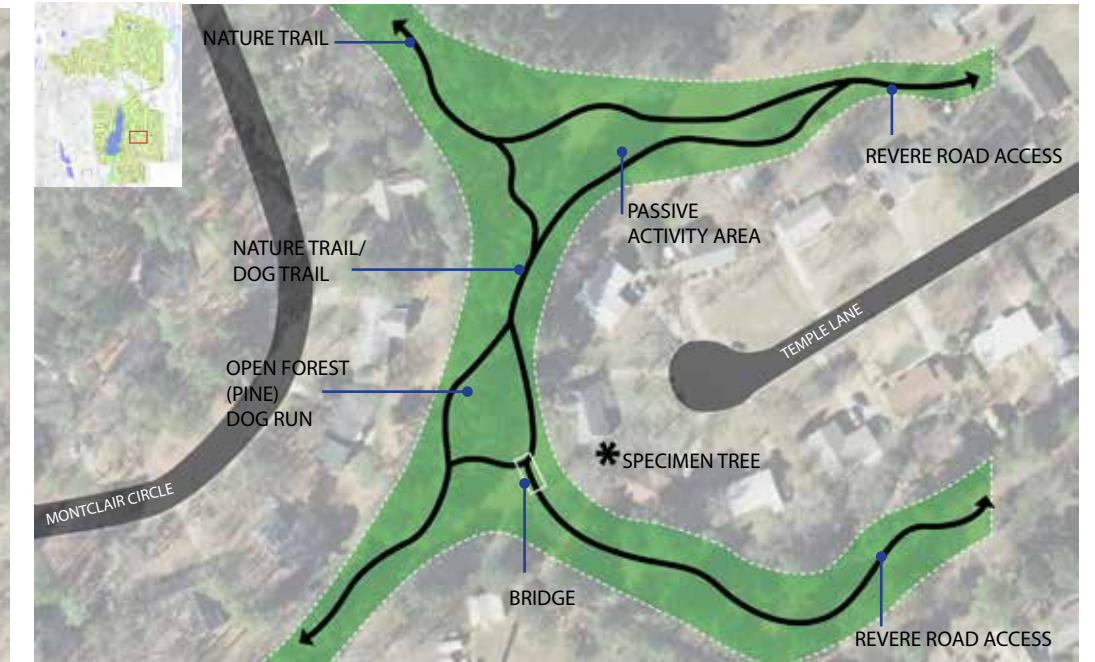
- Recommendations for New Structures & Services
- Recommendations for Improving Existing Structures

To see these activity areas in a larger context within the neighborhood, see Figure 6.01.

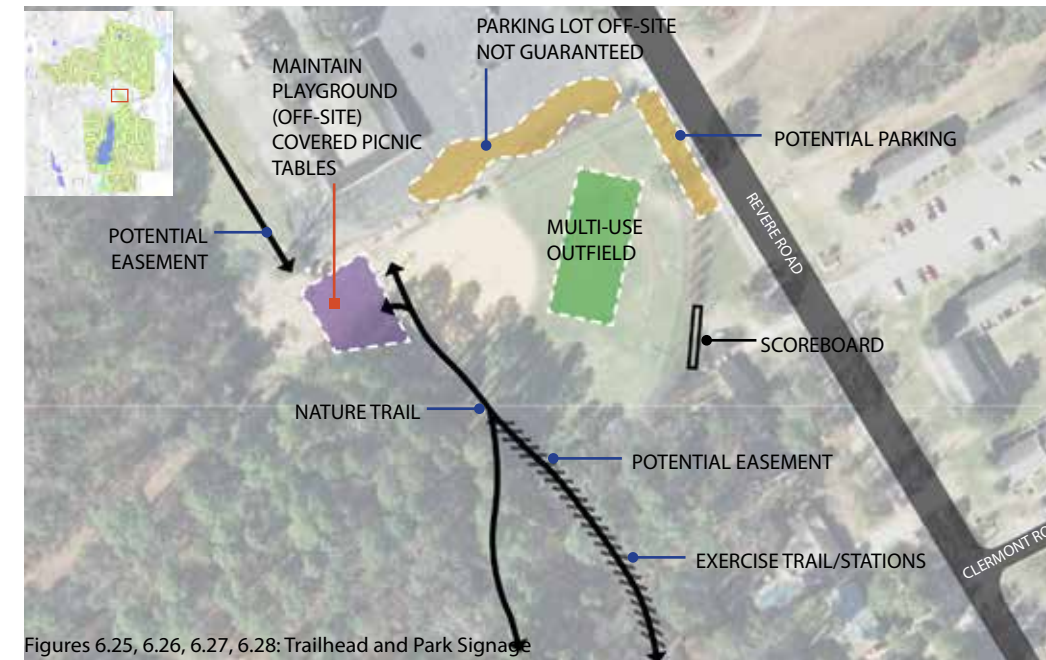
RADCLIFF CIRCLE TO REVERE ROAD



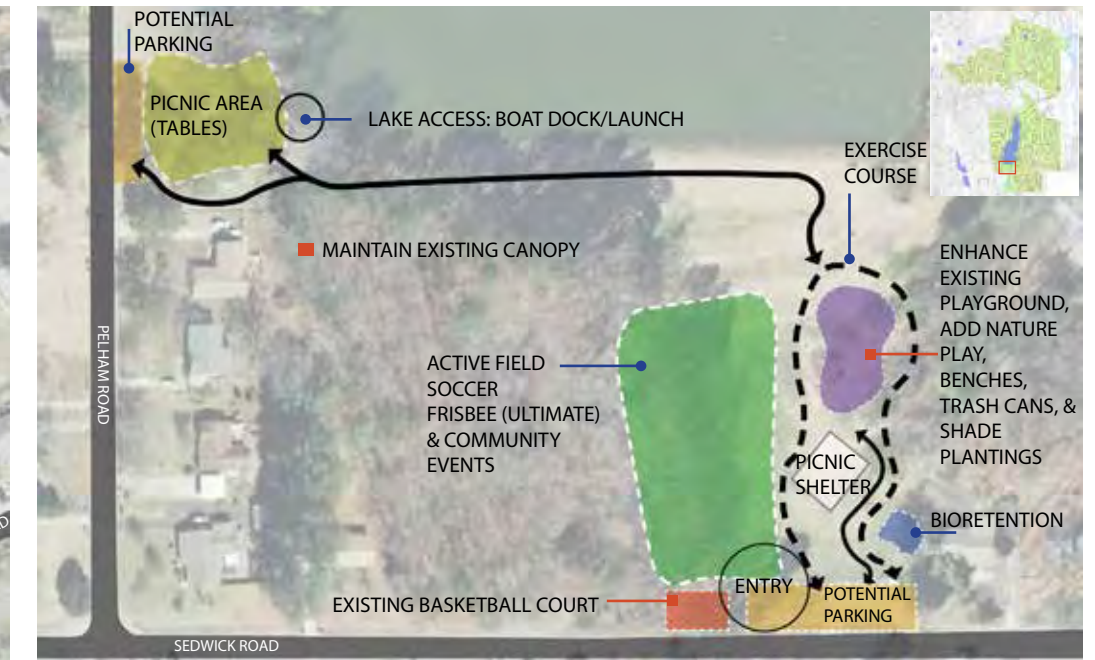
MONTCLAIR CIRCLE & LARKSPUR CIRCLE & TEMPLE LANE



BALLFIELD



SEDWICK PARK

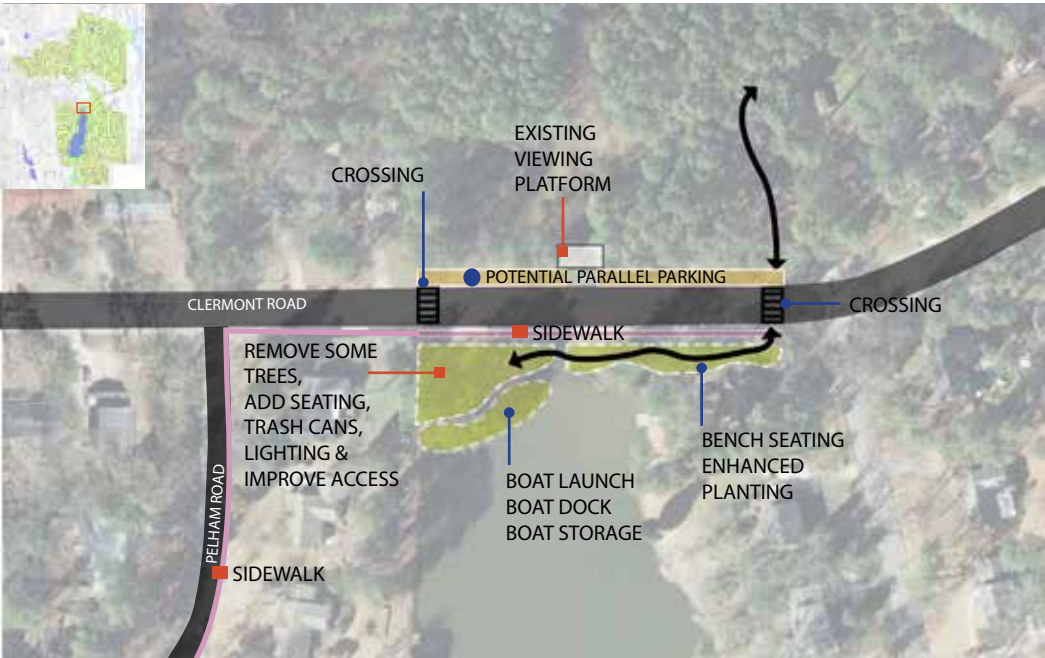


Figures 6.25, 6.26, 6.27, 6.28: Trailhead and Park Signage

- Recommendations for New Structures & Services
- Recommendations for Improving Existing Structures

To see these activity areas in a larger context within the neighborhood, see Figure 6.01.

NORTH LAKE PARK

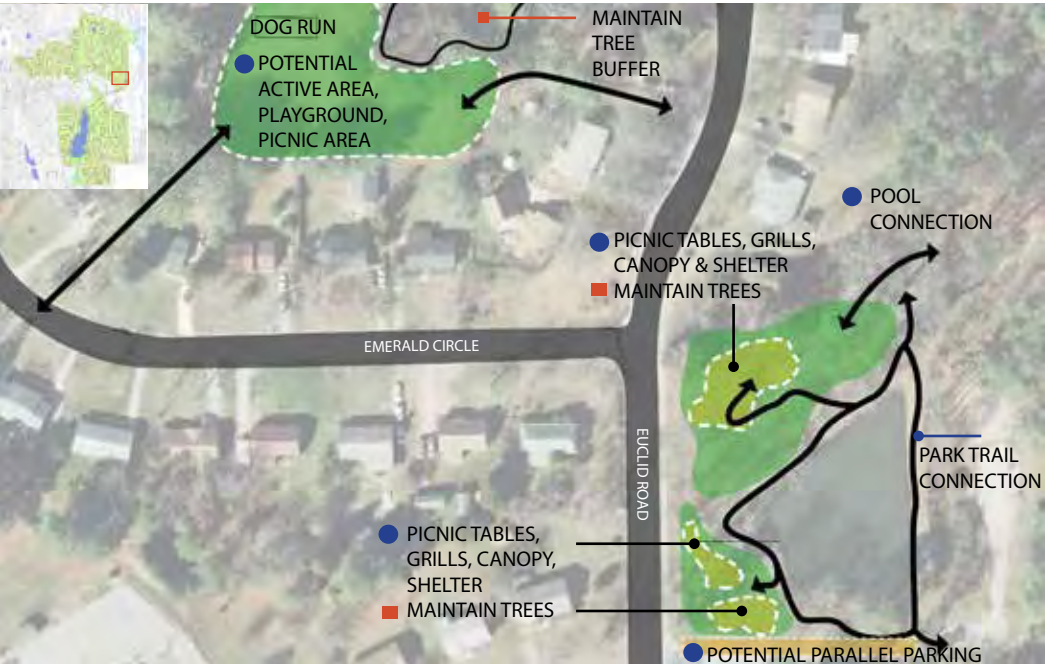


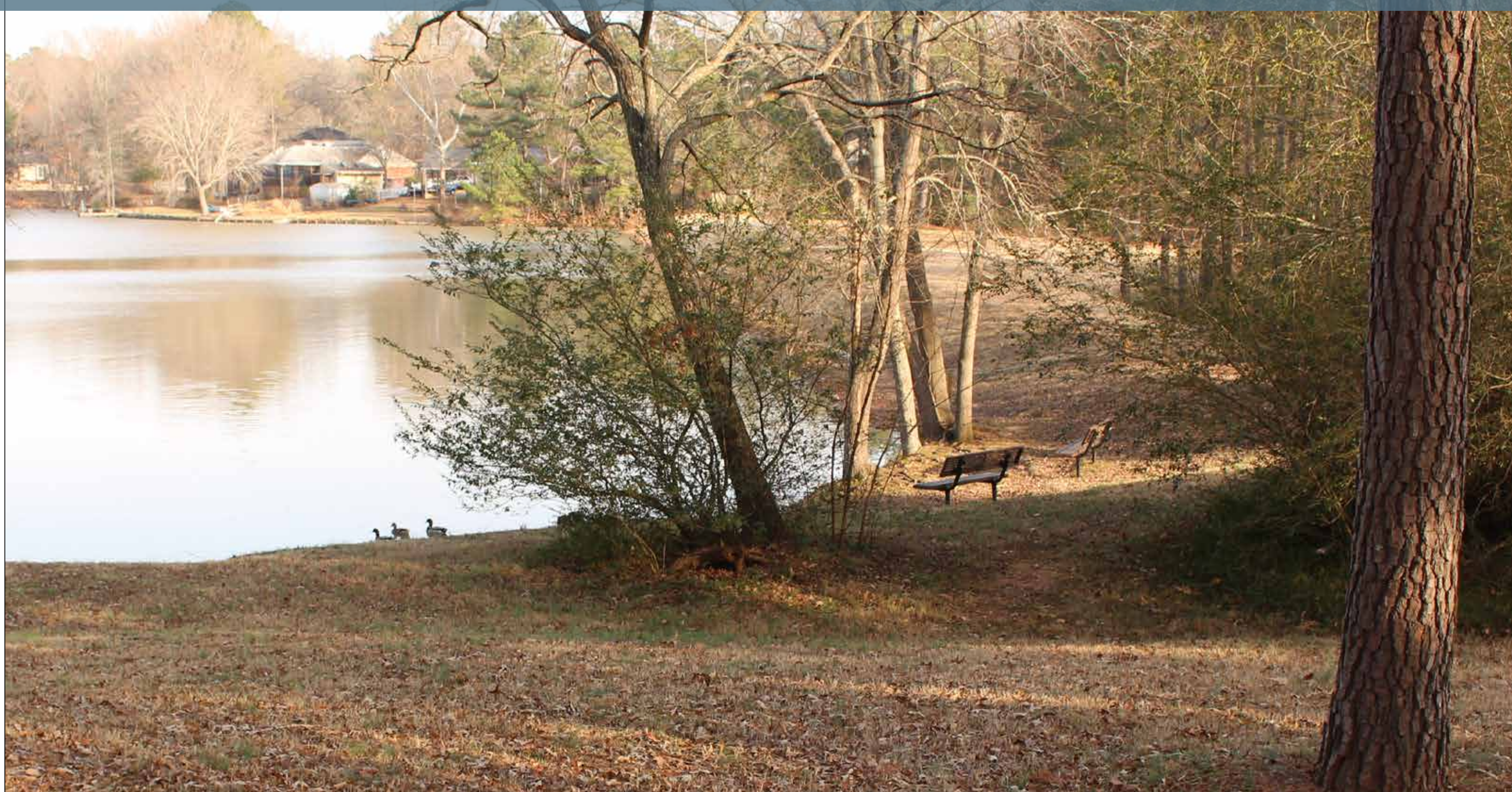
TOT LOT (NORTH WEST)



Figures 6.29, 6.30, 6.31: Trailhead and Park Signage

CLERMONT POND & EUCLID ROAD GLEN





7 Implementation



CHAPTER CONTENTS

- Approval of the Plan
- Enhanced Districts/Zones
- Estimate of Probable Costs
- Financial Assistance Categories
- Financial Sources and Methods
- Maintenance & Operations

APPROVAL OF THE PLAN

In order for the recommendations detailed in this master plan to be implemented, the Parkwood Steering Committee and the HOA Executive Board need to convene to determine if they accept and approve of the master plan. Once the plan is approved by the committee and board, the community can begin an effort to help support further enhancement and implementation of this work. This document is intended to be a resource for the Parkwood HOA to assist in guiding the process of prioritizing, enhancing, and funding various projects.

The following steps include recommendations for implementing the comprehensive plan.

- 1. Maintain Steering Committee:** Current and prospective members should be actively involved in carrying out responsibilities associated with progressing the comprehensive plan. The committee should continue to have members that represent each zoning district of the community.
- 2. Maintain and Enhance Sub-committees:** Sub-committees will ensure dissemination of information and will also assist in coordinating volunteer efforts for several of the priority projects (e.g. placing mulch paths and removing invasive species).
- 3. Funding Strategy:** Use the list of funding and advocacy sources in this chapter to create a strategy and timeline for pursuing financial assistance from relevant agencies and foundations. Use these funding resources as a way to inform and establish priority projects.
- 4. City Process:** Begin streets, sidewalk, and easement petitioning process through the City of Durham concurrently with seeking funding opportunities.
- 5. Community Engagement:** Continue to educate residents on on-going efforts, increasing public awareness. This will help to recruit additional volunteers and ensure local support and maintenance of these projects.
- 6. Project Execution:** Determine if further consultant work is needed in order to begin constructing the projects, then begin implementing priority projects.



ENHANCED DISTRICTS/ZONES

Parkwood was conceived with the intent to provide an organizing body to help maintain the community and its amenities as the community changed over time. The Parkwood Home Owner's Association (HOA) was created to help establish committees and board leadership to manage this responsibility. Community districts helped to organize the neighborhood into manageable portions with representation from each district having representatives participating on the various committees.

As discussed in Chapter 3, there are currently eight (8) districts within Parkwood. These districts vary in the amount of open space and parks they have. District 8 has the least amount of current or potential park or open space area. Due to this inconsistency of available opportunity, it is our recommendation to consolidate Parkwood's eight districts into four zones to help establish relative priorities by general land areas, ensuring that residents in each zone benefit from their investment in these improvements. These zones will then help to shape the phasing for implementing various design proposals and also help structure regular maintenance for each venue and facility. For instance, improvements in zone 2 will benefit residents in Districts 8 and 2, and they can also help to maintain some of these recommendations in volunteer led efforts. Figure 7.01 on the following page depicts this consolidation. Zone 1 makes up Districts 1 and 3. Zone 2 includes Districts 2 and 8. Zone 3 is comprised of District 4 and 7. Lastly, Zone 4 includes Districts 5 and 6.

There are many benefits to grouping the districts into zones. These benefits include a more balanced share of responsibility in maintenance and upkeep, homeowner support for various district upgrades, and a balanced share of financial and resource support for the community enhancements. The

District Consolidation Benefits

- >> More opportunities to support Parks and Open Space improvements
- >> Support for funding increases
- >> An increase in effective representation on committees and boards
- >> Inclusive improvements that benefit all districts
- >> Shared maintenance efforts
- >> Clarifies implementation and prioritization strategies
- >> Creates more unity in the community with less division
- >> Increases equity in access to parks because all zones have meaningful park and open space available

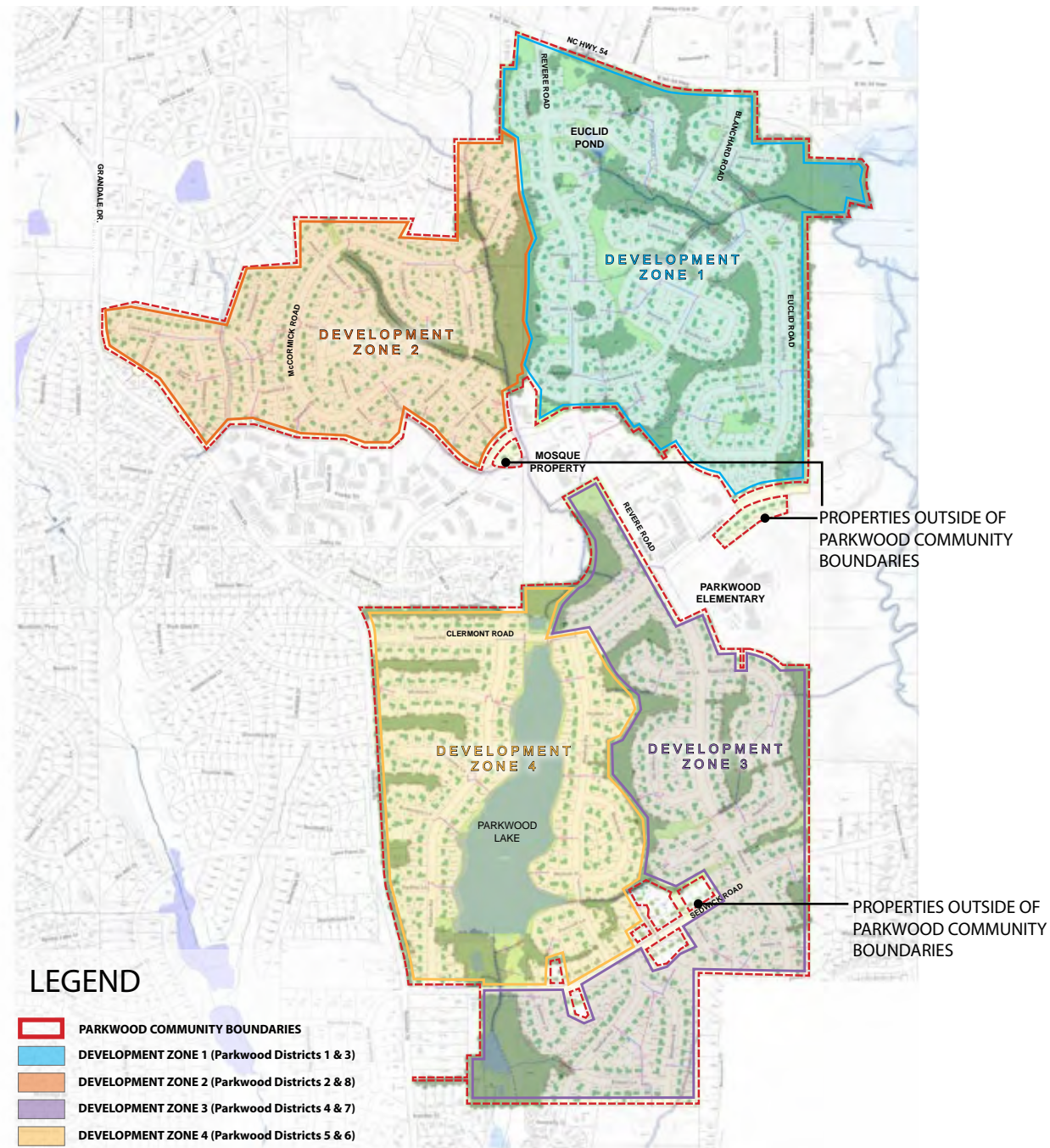


Figure 7.01: Proposed Development Zones

Parkwood HOA can decide how to adjust and implement such a consolidation. Their boundaries can be adjusted or they can merely serve development and planning purposes only while the original eight districts can be maintained.

ESTIMATE OF PROBABLE COSTS (COST ESTIMATING)

This comprehensive plan includes a variety of recommendations for new projects and additional suggestions for enhancing existing assets. An estimation of costs is included in this chapter to help the Steering Committee and Parkwood HOA understand the relative general expenses involved with these recommendations. The cost estimate information is organized by type of intervention (e.g. trails, playgrounds, open space enhancements, etc.) and is estimated to account for the total expense of each of the listed materials. Costs will be incurred for additional work with consultant expertise such as testing for water quality and healthy forests. Detailed site design services for various projects identified in the master plan are not part of this document. Note that some of the itemized expenses can be reduced by utilizing volunteer support and seeking donations for items like planting material and mulch.

Other Costs and Considerations

All costs are variable and tend to fluctuate over time. The estimates provided are for general planning and budgeting purposes but should not be considered comprehensive nor detailed. Each individual project will need to be designed by a licensed professional who can provide a more detailed cost estimate at that time. This estimate of probable cost has been provided so that the community can help identify projects that may be a priority.

Along with additional design services, variables of potential costs could include grading, stormwater controls, utilities, lighting, paving, detailed planting design, maintenance, and additional amenities. Those expenses are not accounted for in this cost estimate as their specific costs are best determined closer to the time of purchasing and after a more detailed design has been completed.

These additional expenses to consider include:

- Lighting
- Grading
- Detailed Plantings
- Utilities
- Stormwater Control
- Maintenance
- Erosion Control
- Consultant Services

FINANCIAL STRATEGY: Funding sources will come from a number of sources mentioned in this chapter and summarized below:

- HOA Dues and Budget
- Grants
- Public/Private Partnerships
- Endowments
- Local and State Funding

Project Type	Master Plan - Neighborhood	
Date of Estimate	5/24/2018	
Construction Item	Units	Average Unit Cost
Ground Material		
Parking Option 1: Asphalt	SQ. YARD	\$25.65
Parking Option 2: Gravel	SQ. YARD	\$15.79
Trail Option 1: Asphalt	SQ. YARD	\$25.65
Trail Option 2: Decomposed granite	SQ. YARD	\$37.00
Lawns/Grasses/Surface Material		
Planting Soils	CY	\$30.00
Mulch (Trails & Playgrounds)	CY	\$15.00
Turfgrass Seeding	ACR	\$515.40
Miscellaneous		
Concrete Work (Sidewalks 4" Thick)	SQ. FOOT	\$4.00
Signage (Trails and Parking)	EACH	\$1,000.00
Scoreboard (Replacement at Baseball Field)	EACH	\$3,000.00
Plantings		
Shade trees	EACH	\$500.00
Shrubs	EACH	\$30.00
Native grasses	SQ. FOOT	\$1.00
Site Amenities		
Trash Receptacles	EACH	\$75.00
Tables	EACH	\$1,000.00
Chairs	EACH	\$500.00
Bollards	EACH	\$600.00
Picnic Shelter (pre-fabricated)	EACH	\$50,000.00
Grill	EACH	\$1,500.00
Playground equipment (estimate- varies considerably)	EACH	\$50,000.00
Bench	EACH	\$1,000.00
Restroom (pre-fabricated structure with 4 toilets)	EACH	\$200,000.00
Chain link fence	LF	\$9.50
Dog Stations	EACH	\$500.00

Figure 7.02: Estimate of probable costs per line item. Detailed cost estimates will need to be attained for each project undertaken. These are 2018 costs and do not account for escalation nor variations in the market. These are installed prices by a contractor.

Notes:

The total proposed trail length is approximately 21,000 linear feet. This estimate includes existing trail as well as the additionally proposed trail sections. The "Spine" trail is roughly 4,500 linear feet of that total.

FINANCIAL ASSISTANCE CATEGORIES

Grants

There are significant grant opportunities available for projects relating to greenway and trail construction, particularly those connecting with larger, regional trail networks. The National Recreation Trails Fund lists multiple grant opportunities from various entities with different criteria and also includes information on the grant writing process.

In addition to greenways, the proposed comprehensive master plan includes several other recommendations for neighborhood revitalization including new play equipment and several multipurpose open green spaces that also encourage wildlife conservation.

Because of Parkwood Community Association's status as a non-profit entity, there may be additional grant opportunities specifically for non-profit organizations. In addition, it is worth noting that oftentimes grant opportunities require a minimum level of matching funding from local sources. In those instances, it would require coordination with the City and the County to ensure sufficient funds are available to match grant dollars. For this reason, it would be beneficial to approach representatives involved with development of Durham's Strategic Plan, specifically the Thriving and Livable Neighborhoods Initiatives as many of the recommendations in this comprehensive plan align with their goals.

Public/Private Partnerships

Private funding opportunities also prove to be fruitful sources of support for greenway and neighborhood development projects. Partnerships engender a spirit of cooperation, civic pride and community participation. The Parkwood Community Association should research funding through local businesses, corporate giving programs, and other private environmental and health and wellness-focused foundations both locally and nationally. Private environmental organizations like land trusts, environmental lobbying groups, and fundraising trail organizations may also provide support. Utilities often make good partners and many trails now share corridors with them. Money raised from providing an easement to utilities can help defray the cost of maintenance. It is important to have a lawyer review the legal agreement and verify ownership of the subsurface, surface or air rights in order to enter into an agreement.

Ongoing Support

Most of the previously mentioned financial support relates to initial costs for materials and construction, but it is also important to consider additional funding required for on-going

maintenance and management. This could assist with costs related to items typically absorbed into the operations budget. Incorporating special events and service clubs through school, religious, or social organizations held either along the trail or in the shared spaces with neighborhood amenities will help to both encourage use of these facilities and cultivate a sense of ownership and pride in maintaining these areas. The community survey indicated that 67% of residents are willing to increase HOA dues to cover additional implementation and maintenance costs. The HOA Board should consider raising dues but this will need to be accepted and approved by the community.

Endowments

Creating a third-party organization that raises donations for the greenway trail can be a successful and instrumental funding source. For example, the Community Foundation of Greater Greensboro, NC, helped fund the Piedmont Greenway master plan.

FINANCING SOURCES & METHODS

Local, state, federal, and private funding is available to support the planning, construction, right of way acquisition and maintenance of bicycle and pedestrian facilities. These potential funding sources additionally support a variety of initiatives including transportation, water quality, hazard mitigation, recreation, air quality, wildlife protection, community health, and economic development. This section lists funding opportunities through federal, state, nonprofit and corporate sources.

The descriptions included here were taken directly from each fund's marketing materials. Additional information can be found at the website listed. Legislation and regulations affecting these funding resources continually change and need to be revisited before pursuing each respective funding source.

Federal & State Funding

The federal government provides money to the states and states manage these funds. Local Metropolitan Planning Organizations (MPO) establish project priorities through a process resulting in a Long Range Transportation Plan. Multi-use trails are in this plan. As the local MPO, federal transportation funding for local projects will be allocated through Durham-Chapel Hill-Carrboro Metropolitan Planning Organization (DCHC-MPO).

For more information, visit: <http://www.dchcmpo.org>
Margaret Scully, Grant and Fiscal Management Oversight, DCHC-MPO
(919) 560-4366 x36409

STP-DA

Surface Transportation Program/Direct Attributable funds may be used for bicycle/pedestrian projects, transit projects, or road projects. STP-DA funds are administered through the MPO. Local governments should work with the MPO to pursue funding.

CMAQ

Congestion Mitigation & Air Quality (CMAQ) is a Federal program that funds transportation projects and programs in air quality non-attainment and maintenance areas to help achieve and maintain national standards for air quality pollutants. In North Carolina, NCDOT serves as the administrator for this program. Funding is apportioned to North Carolina based on the population in non-attainment and maintenance areas of the state and the severity of air quality problem.

For more information, visit: <https://connect.ncdot.gov/projects/planning/Pages/CongestionMitigationAirQualityNC.aspx>

Transportation Enhancement Program

The Transportation Enhancement (TE) Activities offer funding opportunities to help expand transportation choices and enhance the transportation experience through 12 eligible TE activities related to surface transportation, including pedestrian and bicycle infrastructure and safety programs, scenic and historic highway programs, landscaping, historic preservation, and environmental mitigation. TE projects must relate to surface transportation and must qualify under one or more of the 12 eligible categories.

TE Activities Defined:

1. Provision of facilities for pedestrians and bicycles.
2. Provision of safety and educational activities for pedestrians and bicyclists.
3. Acquisition of scenic easements and scenic or historic sites (including historic battlefields).
4. Scenic or historic highway programs (including the provision of tourist and welcome center facilities).
5. Landscaping and other scenic beautification.
6. Historic preservation.
7. Rehabilitation and operation of historic transportation buildings, structures, or facilities (including historic railroad facilities and canals).
8. Preservation of abandoned railway corridors (including the conversion and use of the corridors for pedestrian or bicycle trails).

9. Inventory, control, and removal of outdoor advertising.
10. Archaeological planning and research.
11. Environmental mitigation—
 - (i) to address water pollution due to highway runoff; or
 - (ii) reduce vehicle-caused wildlife mortality while maintaining habitat connectivity.
12. Establishment of transportation museums.

For more information, contact:

Loretta Barren
Federal Highway Administration, North Carolina Division
310 New Bern Avenue
Raleigh, NC 27601
919-747-7025
loretta.barren@dot.gov

Safe Routes to School Program

Safe Routes to School (SRTS) is a program that enables and encourages children to walk and bicycle to school; makes walking and bicycling to school a safe and more appealing transportation option, and facilitates the planning, development and implementation of projects and activities that will improve safety and reduce traffic, fuel consumption, and air pollution in the vicinity of school.

The Federal Safe Routes to School program was established in 2006 and provided funding to all State Departments of Transportation. More recent legislation did not include funds specifically for Safe Routes to School, though projects to improve walking and bicycling safety are still eligible under the Transportation Alternatives Program. An example of an infrastructure project is construction of sidewalks around a school.

Contact the North Carolina Safe Routes to School Coordinator to discuss funding possibilities.

Ed Johnson, RLA, ASLA
NCDOT, Division of Bicycle and Pedestrian Transportation
919.707.2604
erjohnson2@ncdot.gov

The North Carolina Division of Parks and Recreation awards grant funds primarily from four sources:

- The Federal Recreational Trails Program (RTP)
- The North Carolina Parks and Recreation Trust Fund (PARTF)
- The Federal Land and Water Conservation Fund (LWCF)
- The Connect North Carolina Bond grant program (CNCB)

State Trails Program (RTP), NC Division of Parks and Recreation

The Recreational Trails Program is a \$1.5 million grant program funded by Congress with money from the federal gas taxes paid on fuel used by off-highway vehicles. This program's intent is to meet the trail and trail-related recreational needs identified by the Statewide Comprehensive Outdoor Recreation Plan. Grant funding is for trail planning, construction, maintenance, signs and related facilities.

For more information, visit: <https://www.ncparks.gov/more-about-us/grants>

North Carolina Parks and Recreation Trust Fund (PARTF), Parks and Recreation Authority

The Parks and Recreation Trust Fund (PARTF) provides dollar-for-dollar matching grants to local governments for parks and recreational projects to serve the public. PARTF is the primary source of funding to build and renovate facilities in the state parks as well as to buy land for new and existing parks.

Land and Water Conservation Fund (LWCF), N.C. Department of Environment and Natural Resources

The fund was established in 1964 by Congress to create parks and open space, protect wilderness, wetlands, and refuges, preserve habitat and enhance outdoor recreational opportunities. The fund is principally supported through receipts from oil and gas drilling on the Outer Continental Shelf. In most years, Congress makes an LWCF appropriation to each state. States receive individual allocations of LWCF grant funds based on a national formula, with state population being the most influential factor.

The State Side of the LWCF provides matching grants to States and local governments for the acquisition and development of public outdoor recreation areas and facilities.

For more information, visit: <https://www.nps.gov/subjects/lwcf/stateside.htm>

The Connect North Carolina Bond grant program (CNCB)

The Connect NC Bond package, approved in March 2016, included one-time funding of \$3 million for parks and recreation grants to benefit children and/or veterans with disabilities. Local governments,

including some public authorities, are eligible to apply for the matching grants. The program is administered through the N.C. Division of Parks and Recreation and the N.C. Parks and Recreation Trust Fund.

The matching grants can be used to build special facilities or adapt existing facilities that meet the unique needs of children and/or veterans with physical and developmental disabilities. Local governments can request a maximum of \$500,000 with each application and must match the grant with at least one dollar of local funds for every four dollars in grant funds.

<https://www.ncparks.gov/more-about-us/grants/cncb>

NCDOT Division Small Projects

Division 5 typically has funding for small projects that could potentially pay for portions of the greenway. These projects could include sidewalk, intersection improvements or other items approved by the Division.

For more information, visit: <http://www.ncdot.gov>

Powell Bill Program (NCDOT)

Annually, State Street-Aid (Powell Bill) allocations are made to incorporated municipalities which establish their eligibility and qualify as provided by statute. Powell Bill funds shall be expended primarily for the purposes of resurfacing streets within the corporate limits of the municipality but may also used for maintaining, repairing, constructing, reconstructing or widening of any street or public thoroughfare within the municipal limits or for planning, construction, and maintenance of bikeways, greenways or sidewalks.

For more information, visit: <https://connect.ncdot.gov/municipalities/State-Street-Aid/pages/default.aspx>

Governor's Highway Safety Program (NCDOT)

The Governor's Highway Safety Program is dedicated to promoting highway safety awareness to reduce the number of traffic crashes and fatalities in the state of North Carolina through the planning and execution of safety programs.

Because Parkwood is located near state roads, particularly Highway 54, this funding source could be pursued.

For more information, visit: <https://www.ncdot.gov/programs/ghsp/>

Clean Water Management Trust Fund

North Carolina's Clean Water Management Trust Fund (CWMTF) was established by the General Assembly in 1996 as a non-regulatory organization with a focus on protecting and restoring the State's land and water resources. They award grants to non-profit and governmental organizations to protect land for natural, historical and cultural benefit, limit encroachment on military installations, restore degraded streams, and develop and improve stormwater treatment technology.

CWMTF funds may be used to establish a network of riparian buffers and greenways for environmental, educational, and recreational benefits. The fund has provided funding for land acquisition of numerous greenway projects featuring trails, both paved and unpaved. For a history of awarded grants in North Carolina and more information about this fund and applications, visit: cwmtf.nc.gov

Water Resources Development Grant Program

The NC Division of Water Resources offers cost-sharing grants to local governments on projects related to water resources. Of the seven project application categories available, the category which relates to the establishment of greenways is "Land Acquisition and Facility Development for Water-Based Recreation Projects." Applicants may apply for funding for a greenway as long as the greenway is in close proximity to a water body.

For more information, visit: <https://deq.nc.gov/about/divisions/water-resources/water-resources-grants/financial-assistance>

Trillium Play Together Playground Grant Program

Trillium's Play Together Accessible Playground grants have provided towns with the ability to build fully accessible, all-inclusive playgrounds for individuals with special needs and physical disabilities. Grants Funding for the Play Together Construction Grant for Accessible Playgrounds is a result of savings from operating as a Medicaid 1915 (b)(c) Waiver site.

<http://events.trilliumhealthresources.org/trillium-initiatives/play-together>

KaBOOM! Playground Grant Program

KaBOOM! offers a number of community-built playground grants to empower friends and neighbors to

collaborate for a common cause – to bring play to their communities.

This grant provides eligible communities with the majority of funds, tools and resources they need to build a custom-made playground – all in one day! Selected groups, referred to as Community Partners, will work closely with a KaBOOM! Project Manager who will lead Design Day and Build Day activities, as well as coordinate the equipment and material purchases for the project. Community members will take the lead in recruiting volunteers, securing food and tool donations and completing any necessary site preparation

<https://kaboom.org/grants>

State Administered Community Development Block Grants

State-level Community Development Block Grants (CDBG) are allocated through the NC Department of Commerce, Division of Community Assistance, to be used to promote economic development and to serve low-income and moderate-income neighborhoods. Greenways and sidewalks that are part of a community's economic development plans may qualify for assistance under this program. Recreational areas that serve to improve the quality of life in lower income areas may also qualify. Planning activities, demolition, street construction and property acquisition are also qualifying activities.

For more information, visit: <https://www.hudexchange.info/programs/cdbg-state/>

For more information about the Community Development Block Grant Program, contact
Wilmur Conyers

Federal Programs Coordinator

Community Development

807 E. Main Street

Durham, NC 27713

919-560-4570

wilmur.conyers@durhamnc.gov

USDA Rural Business Enterprise Grants

Public and private nonprofit groups in communities with populations under 50,000 are eligible to apply for grant assistance to help their local small business environment. Grants may be used for a number of projects, including acquisition of land, easements and constructions (such as sidewalks and other community facilities) that benefit small and emerging private businesses in rural areas. Small projects are given priority and grants usually range from \$10,000-\$500,000.

For more information, visit: <https://www.rd.usda.gov/programs-services/rural-business-development-grants/nc>

Private Foundations and Organizations

Trust for Public Land - The Trust for Public Land helps state and local governments design, pass, and implement legislation and ballot measures that create new public funds for parks and land conservation.

<https://www.tpl.org>

North Carolina Community Foundation - The NCCF is the single statewide community foundation serving North Carolina and has made more than \$130 million in grants since its inception in 1988. With more than \$247 million in assets, NCCF sustains 1,200 endowments established to provide long-term support of a broad range of community needs, nonprofit organizations, institutions and scholarships. The NCCF partners with a network of affiliate foundations to provide local resource allocation and community assistance across the state. An important component of NCCF's mission is to ensure that rural philanthropy has a voice at local, regional and national levels.

<http://www.nccommunityfoundation.org>

National Trails Fund - American Hiking Society's National Trails Fund is the only privately funded, national grants program dedicated solely to building and protecting hiking trails.

<https://americanhiking.org/national-trails-fund/>

Capital Improvements

Municipalities often plan for the funding of pedestrian facilities or improvements through development of Capital Improvement Programs (CIP). CIPs should include all types of capital improvements (water, sewer, buildings, streets, etc.) versus programs for single purposes. This allows municipal decision-makers to balance all capital needs. Typical capital funding mechanisms include the following: capital reserve fund, capital protection ordinances, municipal service district, tax increment financing, taxes, fees, and bonds.

Parkwood HOA Dues Assessment

Parkwood residents are assessed annual dues for various aspects of maintaining a quality of living within the community. Much of these dues go to the maintenance and upkeep of the parks and open space as well as maintaining an HOA office. Considering increasing the dues now would be an important step to help providing a dependable source of financing to support creation of many of the projects. Also, by clustering amenities and leaving some open space less maintained, the HOA can be more strategic in their spending.

The Parkwood Community should use this document as evidence of the community's desires to

include sidewalks in their community. A petition should be presented to the City of Durham to request additional sidewalks as shown in the final master plan as prioritized. The goal is for these sidewalks to be included in the City's Capital Improvements plan.

MAINTENANCE + OPERATIONS

A thorough maintenance and operations plan ensures that the new projects and enhancements are lasting efforts that continue to benefit to the residents of the community. As these open areas, play spaces, and trails are intended to be used by the community at large, it is important to ensure that all residents contribute to this maintenance where possible. This will also help to reduce long-term maintenance costs.

Suggestions for particular consideration in establishing an operations and maintenance plan are included below.

- Clearly stated goals with timeline of benchmarks
- Communications plan
- Emergency plan (specific to police, fire, and medical personnel access)
- Safety inspection frequency, documentation, and follow-up (hiring specialists where appropriate)
- Feedback system for trail users to make suggestions or requests
- Routine maintenance tasks, frequency, and responsibility (e.g. trash pick-up, shoulder mowing, tree trimming, debris removal, etc.)
- Amenity repair and replacement plan (signs, benches, tables)
- Drainage and surfacing repairs and improvements
- Event policies and support
- Volunteers (task-oriented and routinely engaged)
- Long-term major renovation and maintenance plan like replacing aging tree canopy in forested areas (including responsible parties and coordinating entities)
- Multi-year funding plan
- Internal process for review and update with Parkwood HOA

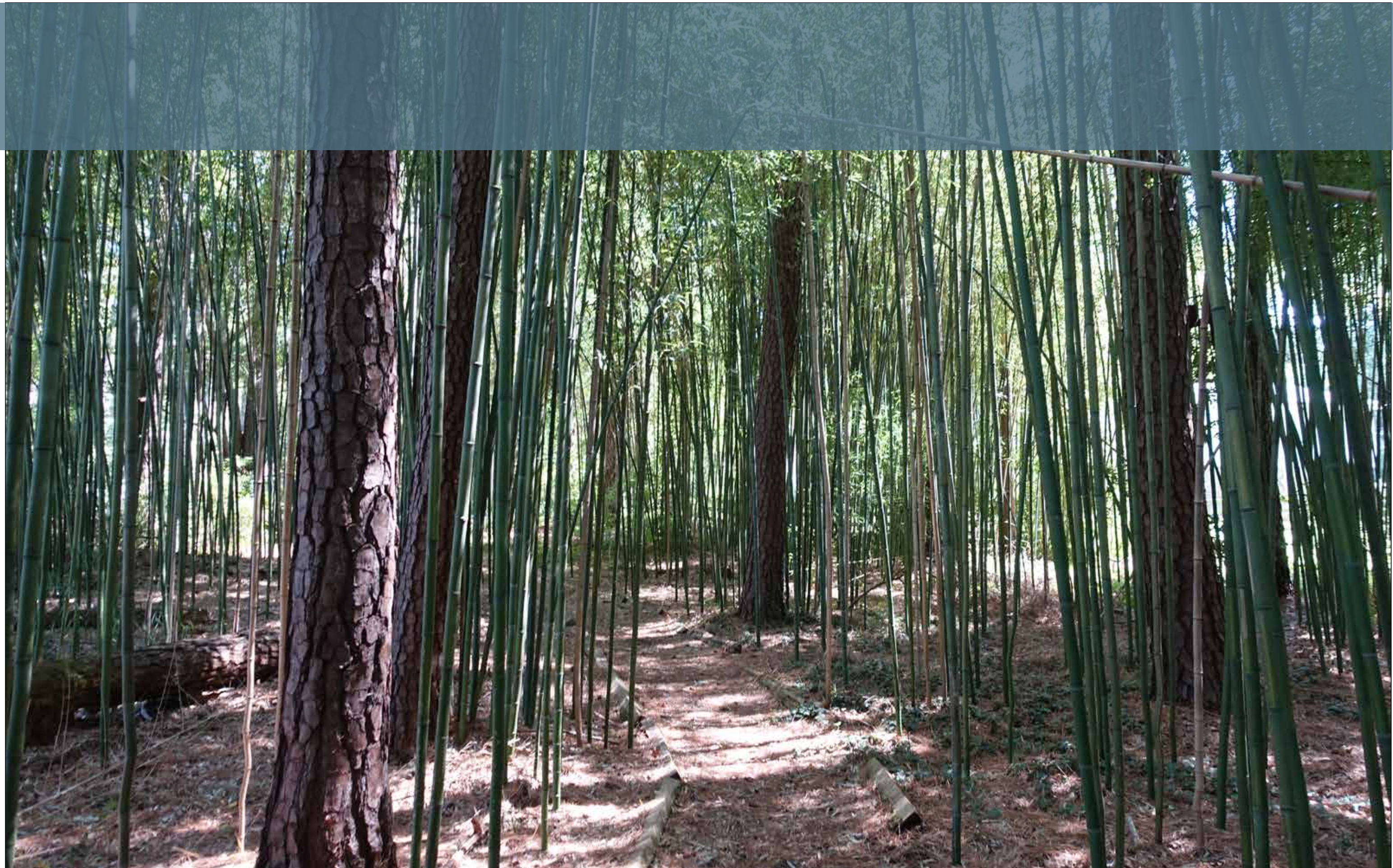
The following are regular maintenance tasks to maintain a safe and accessible trail network and recreational facilities.

TRAILS:

- MOWING - on either side of the trail that is not sidewalk.
- LEAF DEBRIS & TREE REMOVAL - maintain a safe and clearly defined trail as needed including removal of trees obstructing trail paths.
- PRUNING (Annual) - Prune woody vegetation 4-feet back from sides of trail - 12-feet vertical clearance. Remove invasive plant species.
- SIGNAGE REPAIR (Periodically as required) - Maintain directional and informational signs.
- TRAIL SURFACE REPAIR (Periodically as required) - Resurface asphalt damage from freeze/thaw, repair or maintain mulch surface from wear and erosion.
- DRAINAGE STRUCTURES (Annually, at minimum) - Clean inlets, keep swales clear of debris.
- LITTER PICK UP (Weekly) - Trail, playground, and open space litter pickup as needed. Adequate and accessible trashcans will help minimize excessive loose trash. Encourage users to abide by "carry in, carry out" policy.
- TRASH COLLECTION (Weekly) - Removal of trash from receptacles at all communal areas.
- SAFETY - Periodic patrols on bicycle or foot by volunteer "neighborhood watch" group to promote safety and encourage users to report misuses of the trail and share comments or concerns.

PLAYGROUNDS, PARKS, & OPEN SPACES:

- MOWING - in appropriate communal spaces where short grasses are desired. Establish "no-mow" areas where permitted in spaces not intended for communal use.
- PRUNING & LANDSCAPING - Remove invasive species and maintain mowed grass at appropriate areas. Ensure tree canopy allows for shade where desired. Periodically evaluate tree health to ensure safety near communal facilities.
- SIGNAGE REPAIR (Periodically as required) - Maintain directional and informational signs, particularly those that designate parking permissibility and hours of use.
- SURFACE REPAIR (Periodically as required) - Ensure the appropriate playground surface material is maintained at appropriate depths each year.
- CLEANING & INSPECTION (Periodically, as needed) Clean playground structures and have playground equipment inspected annually.
- LITTER PICK UP (Weekly) - Trail, playground, and open space litter pickup as needed. Adequate and accessible trashcans will help minimize excessive loose trash. Encourage users to abide by "carry in, carry out" policy.
- TRASH COLLECTION (Weekly) - Removal of trash from receptacles at all communal areas.
- SAFETY - Periodic patrols on bicycle or foot by volunteer "neighborhood watch" group to promote safety and encourage users to report comments or concerns.



Conclusion 8



CHAPTER CONTENTS

Summary
Recommendations & Next Steps
Covenants and Restrictions
Warranties and Service Agreements

SUMMARY

Adopting a comprehensive parks and open space master plan speaks to Parkwood's communal spirit in maintaining a neighborhood complete with diverse shared services and amenities that help to connect the residents. Strategically implementing these projects ensures that residents clearly understand the extent of these assets through signage and wayfinding and that they can continue to safely enjoy these areas with regular maintenance efforts. This comprehensive plan is intended to equip the Parkwood Community Association with a thorough documentation of research from community meetings and site visits that can be used to inform future decision making processes related to parks and open spaces in Parkwood.

Please keep in mind this community comprehensive master plan is a guide to recommend improvements in the community. Detailed construction documents will be required for improvements to parks that are not simple maintenance or volunteer efforts. During the construction document phase, the community should be involved in the process and allowed to comment on the scope and aesthetics of the improvements in their community.

PRIORITIES:

- Projects that address sites with the biggest safety concerns
- Volunteer labor coordinated efforts
- Projects that distribute amenities throughout all regions of the neighborhood, ensuring all districts include parks and open space amenities

RECOMMENDATIONS + NEXT STEPS

The proposed Parkwood Parks and Open Space Comprehensive Master Plan encourages increased connectivity in the neighborhood by:

- Adding additional sidewalks at key pedestrian traffic areas where they are lacking.
- Incorporating a trail network to promote walking and biking throughout the neighborhood.
- Ensuring pedestrian crosswalks at sidewalks and trail crossings are highly visible and help to calm vehicular traffic.
- Adding strategic parking places so that residents from distant parts of the neighborhood or those with limited mobility have equal access to these areas.

This proposal additionally recommends the following:

- Add signage to spaces intended for shared use that were previously unused or were inaccessible.
- Create a unified aesthetic through consistent signage and materials at parks and open spaces.
- Balance the amount of shared space dedicated to programmed activity like playgrounds and picnic areas with other areas that remain open to a multitude of uses.
- Consider allowing some natural areas to allow native plants to grow without mowing in order to minimize maintenance costs and encourage wildlife habitat.
- Maintain community involvement in discussion, implementation, and maintenance of these projects.

At-A-Glance Next Steps: NOW

- Maintain steering committee and coordinate volunteer teams.
- Research and prioritize funding pursuits.
- Increase community involvement with various initiatives (e.g. clearing invasives along trails).
- Begin sidewalk petition process and establishing easements for trails.

At-A-Glance Next Steps: LATER

- Prioritize projects and establish phasing for implementation.
- Keep volunteer teams engaged to help disseminate information and participate in the planning process.
- Improve signage and wayfinding in the community.

COVENANTS + RESTRICTIONS

In order to ensure that the communal spaces and trail networks are properly and consistently maintained, the Parkwood Community Association should review HOA guidelines regarding management and maintenance to ensure that all new and improved spaces and amenities are accounted for within the document. If revisions or additions are needed, incorporate that language with the help of an attorney.

WARRANTIES + SERVICE AGREEMENTS

Many of the services and products proposed in this comprehensive master plan document are significant investments for the Parkwood Community. As such, there should be a discussion about the warranties and service agreements for each of these services and amenities with each respective contractor. This ensures that plants and structures are properly installed to last and makes the Parkwood Community Association aware of the extent of their investments and responsibilities.





9 APPENDIX

APPENDIX CONTENTS

Meeting Minutes
Community Input Meeting #1
Survey Results
Community Input Meeting #2
Community Input Meeting #3
2016 Playgrounds Survey
Steering Committee Master Plan Document Feedback

APPENDIX

MEETING MINUTES

February 9, 2017

Notes from Parkwood Scoping Meeting

Attendees:

Bill Egan

Bill Mitchell

1 Unknown Name

Michael Batts

Ross Massey

Jennifer Wagner

- 450 acres – 8 different districts: each has 2 board members – elected for 2 year terms ; annual meeting; several committees of the board (playground , finance, etc.)
- Older section has more open space
- 1,006 homes here now.
- Older residents have been here since the mid-60’s; younger families are moving in. \$150,000 for a 3 bedroom home, 1.5 bath, 1,000 sf.
- Oldest section – Euclid pond
- Issues with new playground there – blocking views; 70 names on a petition to remove equipment
- People don’t walk as much – need more parking at parks
- New playground at Euclid
- Intermittent streams and buffers – affecting any new developments
- Impervious requirements – will be affected by any new parking, etc.
- Increased demand on parks due to more residential development adjacent to the neighborhood
- All common space is PUBLIC
- They have a Google group and a website to spread the word – send out surveys, etc.
- HOA dues - \$225 a year
- Small budget; all volunteers
- The Village Apartments (?) – one of Parkwood’s playgrounds is on their land. Need a joint-use agreement

- Issues with contractors – not able to get any
- Monthly newsletter
- Lots of complaints from neighbors about various things because there isn’t a clear vision and plan.
- Survey they did is good for each park, but needs more information on any proposed open space
- We need to provide a proposal and an outline of the steps we would take:
 - 3 community meetings
 - Additional survey for need information (and increased awareness/advertising)
 - Illustrative map for layout of parks and connections
 - Fee to deal with next steps
- Need a comprehensive park plan (vision for 5-10 years)
 - Community workshops
 - Needs assessment
 - Financial assessment
 - Linkages and connections
 - Parking needs
- Need to do an annual assessment to determine a fee for any future work
- Implement as funds become available and prioritize which elements should be put in first
- Sell as increase to home value
- Connect to wake county and Durham trails – ATT
- Lots - .26-.44 acres
- Common areas back up to many houses
- Ballfield is always leased and all evening; big demand

MEETING AGENDA

DATE: August 14, 2017

TIME: 6:00 PM – 7:30 PM

PROJECT: Parkwood Community Comprehensive Park Planning

Re: Steering Committee Meeting #1 – Goals and Kick-Off

- 1. **Introductions & Roles (10 minutes)**
 - a. Please explain your interest in the park planning effort
- 2. **Review Project Scope and Deliverables (15 min)**
 - a. Develop a **Needs Assessment** based upon existing conditions, programming, stated needs, demographics and current trends.
 - b. Identify **Existing Gaps** in the park system
 - c. Propose **New Parks, trails and improvements**
 - d. Develop a **Financial Assessment** that reviews project costs and HOA budget, as well as suggesting possible grant opportunities.
 - e. Propose project priorities and provide a **Phasing Plan**
- 3. **Review Community Input (10 min)**
 - a. Summer Festival input
 - b. Survey Questionnaire
- 4. **Develop a Vision and Goals for the Comprehensive Park Plan. (45 min)**
 - a. Vision for the Plan
 - b. Goals
- 5. **Next Steps**
 - a. Stewart to finalize site analysis and provide a report of findings.
 - b. Review project schedule

APPENDIX

MEETING MINUTES

MEETING NOTES

Project: **PARKWOOD COMPREHENSIVE PARK PLAN**
Stewart # C17078

Meeting Date: August 14, 2017

Meeting Location: Parkwood United Methodist Church

Re: Steering Committee Meeting #1

Prepared by: Thomas Gull, Stewart

Meeting Attendees:
Steering Committee Members (16)
Lisa Beckstrom, Steven Berkowitz, Jessica Biggs, Michael Brooks, Krista Confer, Heather Crane, Bill Egan, David Hamill, John Jack, Jack Jefferson, Jenna Meehan, Bill Mitchell, Pandora Simpson, Cheryl Smith, Derek Treuer, Denise Zavaleta
Jennifer Wagner, Stewart
Thomas Gull, Stewart

- 1. **Introduction**
 - a. Committee members introduced themselves and expressed their specific interest in participating in the steering committee for the Comprehensive Park Plan.
 - b. Jennifer and Thomas from STEWART introduced themselves and discussed their professional backgrounds and similar projects that STEWART has completed.
 - c. Steering committee members requested a portfolio of work from STEWART to gain a better understanding of the work STEWART has completed. STEWART will reopen the ShareFile link with examples of work and resend it to all steering committee members. **ACTION**
- 2. **Review of project scope**
 - a. Discussion of specific deliverables including a Needs Assessment, identifying Existing Gaps, proposing Park and Trail Improvements, a Financial Assessment and a Phasing Plan.
 - b. Timeline for completion of initial needs assessment, site analysis and map of existing conditions will be the end of September. (Jennifer)
- 3. **Review community input**
 - a. Summer Festival Input (Thomas)
 - i. Review of initial input STEWART received at the Summer Festival.
 - a. Connection to American Tobacco Trail.
 - b. More trails needed.
 - c. Disc golf course desired.
 - d. Refurbish existing parks, playgrounds and trails.

APPENDIX

MEETING MINUTES

- e. Volleyball court at hidden playground should be updated.
- f. No additional parking should be included.
- g. More public amenities needed near the lake.
- h. Lake needs more oxygen for fish and plant life.

- b. Survey Questionnaire (Jennifer)
 - i. 245 total responses
 - ii. Responses came from an equally distributed pool of residents from all districts.
 - iii. Most of the responses came from residents that have lived in Parkwood 5 years or longer.
 - iv. The majority felt that there are community needs not being met by current open spaces and parks.
 - v. Most desired additional amenities include sidewalks, off-road walking and trails, shared greenways, covered picnic shelters, improved playgrounds and a dog park/dog run.
 - vi. 70% of responses indicated that they feel current community open space and park areas are safe.
- c. General Discussion Comments from Steering Committee
 - i. Initial concerns from the committee include lighting, drainage, parking and open space/park equality of access for all Parkwood residents.
 - ii. Any proposed solutions will need a pre and post cost analysis as related to maintenance costs. Mowing turf area specifically mentioned.
 - iii. The existing ball field has a shared use agreement with the mosque parking lot. In an effort to be inclusive of all neighborhood stakeholders we should include a representative from the mosque and church in the comprehensive park planning process.
 - iv. Public lands within Parkwood are tax free therefore they must be open to all people, not reserved for Parkwood HOA members.
 - v. Many families/parents have self-elected to remove themselves from participating in community input events based on past negative experiences.
 - vi. In an effort to be totally inclusive, all available avenues of communication (The newsletter, Google Groups, Nextdoor, and Facebook) will be utilized in order to reach as many residents as possible. It is STEWART’s hope to understand the needs of the entire community, not just a select few. (STEWART)
 - vii. It was noted that there are no longer any bus stops in Parkwood.
 - viii. Some questions related to the survey were asked, including:
 - a. Provide answers to open-ended questions
 - b. Rank the preferred amenities from highest to lowest
 - c. Investigate if each survey response came from a unique IP address.

4. Develop a vision and goals for the Comprehensive Park Plan

- a. Visioning and goal exercises explained. These will be sent via email to SC members.
- b. The visioning and goals exercise will lead us to our vision statement which will ultimately guide our decisions in completing the Comprehensive Park Plan.

5. Next Steps

- a. Reopen ShareFile link of previously completed park planning work by STEWART and email the link to all steering committee members. <https://stewartinc.sharefile.com/d-sf00e585160643e18> (STEWART)
- b. Email all committee members the visioning and goals exercise along with a copy of the existing map showing all

MEETING NOTES

Project: **PARKWOOD COMPREHENSIVE PARK PLAN**
Stewart # C17078

Meeting Date: October 17, 2017

Meeting Location: Parkwood Homeowners Association Office

Re: Steering Committee Meeting #2

Prepared by: Stephen M. Faber, Stewart

Meeting Attendees:
Steering Committee Members: (10)

Lisa Beckstrom

John Jack

Bill Egan David

Hamill

Jenna Meehan

Michael Brooks

Heather Crane

Derek Truer Jack

Jefferson

Steven Berkowitz

Additional members of community:
Leigh Hutchison
Laura Stadnik

Jennifer Wagner, Stewart
Stephen M. Faber, Stewart

1. Review of Vision Statement

- a. Discussed text amendments to the vision statement. Comments included:
 - i. Change socialization to a different word to make it clear we mean socializing with neighbors.
 - ii. Making sure the text articulated the preservation of natural areas
 - iii. Discussion of Open Space vs. Common Areas vs. Forested Areas and Park Lands vs. Parks
- b. Final Vision Statement confirmed by SC:
 - i. *Preserve the diverse, established community and natural environment while also creating opportunities for improvements to the common open spaces to encourage accessibility, recreation, community cohesion and social opportunities for all residents.*

2. Discussed amending the Goals & Objectives

- a. Goal #1 to be broken out into two goals:
 - i. Physical connections to parks and nearby resources; current vs. future; regional
 - ii. Human connections, community integration personal, internal vs. external

3. Review Community Gaps Comments

- a. Ms. Stadnik mentioned concerns with loitering around the parking at parks at night. Lighting would help with this.
- b. Parking needs to be looked at for parks and open space access areas that considers safety, number of spaces, ADA access, emergency access, maintenance access
- i. Could be parallel, angled, drive in parking entrances/lots
- ii. Event Parking at various sites around the community annually
- iii. Is parking really needed? The SC was mixed on this answer. Generally, useful for parents with small children who walk from their home.
- iv. If there are appropriate locations that do not disturb neighbors, additional parking would be an asset at the lake and Hidden Park. Stewart to review. **ACTION: STEWART**
- c. Euclid Pond
- i. Drainage and safety issues to be considered around the pond and on the trail connecting Hidden Park
- ii. Ms. Hutchison expressed concerns that the playground should be farther away from the pond for safety and to allow for fishing. She was also concerned about maintaining the ecology and natural systems within Parkwood.
- d. Signage is needed at all parks and trails to improve awareness. Stewart to verify City sign ordinance restrictions and how they will apply. **ACTION: STEWART**

4. Additional Items

- a. Can the ballfield be studied for other uses?
- i. Could be flexible for different users for Parkwood and Public– not just a ballfield.
- ii. Revenue neutral and some want to keep until they decide what to plan for
- iii. Used quite a bit but not necessarily by Parkwood residents
- iv. The lights were paid for with a 1993 grant. If the ballfield were removed, the terms of the grant will need to be reviewed for compliance.
- v. Outfield could be used for other sports such as soccer. The outfield fence can be movable and allow for an expanded field design for other uses
- vi. Are there other locations on the property where active rec. fields can be placed (Stewart Comment)?
- vii. Awareness should be increased that the ballfield is available for Parkwood residents to use.
- b. Preserved Natural Areas for native plants and wildlife should be delineated in the park plan.
- i. Contiguous wildlife corridors should be considered (deer, etc.)
- ii. Be sure to distinguish between preserved natural areas and recreational “open space”.

- iii. These areas would have guidelines to future development.
- c. Lake Access
- i. Desire to share the lake and consider circuitous trail around the lake edge by many.
- ii. Those who live on the lake feel their property goes to the lake boundary and that this is unfeasible.
- iii. Review property boundaries and determine public access points
- iv. Consider kayak rack for people to leave their boats and easily access the lake. Access to the lake at Pelham.
- d. Utilities to the parks should be considered for future needs, including restrooms, lighting, water.
- e. Sedwick Park could be a good location for the summer festival if parking was better and amenities improved.
- f. Forest across from Sedwick Park is the pump station and has quite a bit of topography, making it a better location for nature preservation than recreational use.
- g. Stewart to send items to the HOA Communications Committee to help with communication to the neighborhood. **ACTION: STEWART**
- h. Additional comment after meeting: Mr. Brooks suggested Stewart clarify the demographics for Parkwood, specifically families with small children Stewart agreed that the demographics cover more than just the Parkwood boundary and a map will be included for clarification. **ACTION: STEWART**

5. Next Steps

- a. Due to lack of time, SC to review the Park Improvements in the agenda and report back to Stewart any concerns, thoughts, additional items. **ACTION: STEERING COMMITTEE**
- b. Public Meeting: **Dec. 9** at Church (if available) from 10 AM –12 PM. Stewart to confirm and produce maps and information for the meeting. **ACTION: STEWART**
- c. Additional **Steering Committee Meeting: Nov. 14** – Review Agenda and Items for public meeting

The outline above is the writer’s understandings of the major topics and conclusions of the meeting.

Signed:

Stephen Faber
Stephen M. Faber
Stewart

APPENDIX

MEETING MINUTES

MEETING NOTES

Project: PARKWOOD COMPREHENSIVE PARK PLAN
Stewart # C17078

Meeting Date: November 8, 2017

Meeting Location: Parkwood Homeowners Association Office

Re: Board Meeting #1

Prepared by: Stephen M. Faber, Stewart

Meeting Attendees:
Board Members: (5)
John Jack
Bill Egan
Matthew Shellenberg
Pandora Simpson
Hannah Hiles

Jennifer Wagner, Stewart
Stephen M. Faber, Stewart

1. Introductions (5 minutes)

2. Review Project Scope, Contract, and Deliverables (30 min)

- a) Board mentioned the incompleteness of the draft deliverables
 - i) Site Analysis Chapter
 - ii) Needs Assessment
- b) Executive Board does not want to release payment until complete
 - i) Jennifer explained the book is dynamic and will not be fully complete until more of the work is done. Site Analysis chapter falls within that purview
 - ii) **Action:** The Needs Assessment to be updated and finalized by Stewart and sent to committee

3. Reviewed Meeting Communication and Governance of the Parks and Open Space Committee (30 min)

- a) Board requested Stewart to manage the meetings more efficiently from a time stand point
- b) Stewart sent a set of governing guidelines that can be added on to
- c) Stewart’s recommendations are that the committee set some guidelines to:
 - i) Minimize the amount of comments and ancillary discussions
 - ii) Help give direction to the committee on their role
 - iii) Guide attendance and minimize the amount of catching people up that do not attend consistently
 - iv) Limit who is on the committee with all districts represented

- v) Help govern committee members in how the information presented by Stewart is released to the community and how feedback is received
- vi) **Action:** Stewart to send self-governing guidelines to the committee
- d) Stewart requested a Chair position to be created on the committee to help with:
 - i) Communication, direction, and feedback between the committee and Stewart allowing for a more efficient process
 - ii) **Action:** Stewart to help committee draft a position role and responsibilities

4. Review Community Input (15 min)

- a) Discussed about expanding the number of meetings with the committee by an additional 4-5 with one more per the original contract
 - i) Committee agreed based on the complexity of the input/feedback process
- b) **Action:** Public meeting planned for December 9th 10 AM – 12 PM to get further refinement of the needs assessment and location of desired elements

5. Next Steps (10 min)

- a) Stewart:
 - i) To continue developing report and maps for public meeting
 - (1) Send to committee for review on November 20
 - (2) Committee to send comments back to Stewart on November 27
 - ii) To send updated guidelines to committee
 - iii) To send newsletter cover for the public meeting
 - iv) To continue updating site analysis and needs assessment and sending progress to committee for review
 - v) To set up share file system
 - vi) To send clear deliverable schedule reflecting the contract so the committee can ‘check boxes’

The outline above is the writer’s understandings of the major topics and conclusions of the meeting.

Signed:

Stephen Faber

Stephen M. Faber
Stewart

Cc: Meeting attendees

Attachments:
1. None

MEETING AGENDA

DATE: February 26, 2018
 TIME: 6:30 pm – 8:00 pm
 PROJECT: Parkwood Community Comprehensive Park Planning
 Re: Steering Committee Meeting #3 – Project Update

1. Review and Updates (15 min)

- Roles & Responsibilities of Steering Committee members
- Role of the Chair
- Purpose of Steering Committee meetings
- Opportunities for Community Input
- Discuss any updates or concerns from the committee

2. New Items (30 min)

- Status of overall Master Plan Report (in-progress draft sent out)
- Discuss Findings from December Public Meeting
- Identify Key Elements to be incorporated moving forward

3. Discuss Next Steps (30 min)

- Finalize Program for Community Master Plan – **ACTION: STEWART & SC**
- Stewart to review current capital and maintenance costs to incorporate into master plan document. **ACTION: STEWART & HOA**
- Review Schedule
 - Next Steering Committee: Early April (review plans for public mtg)
 - Identify Next Public Meeting: Mid-to-Late April (review master plan of program)
 - Final Steering Committee meeting: May (review final masterplan)
 - Present to HOA Board and Public: early June
 - Final Approval by HOA Board: July Board meeting

Parkwood Press.
 ↳ give contact info for District Reps.
 Stewart@parkwoodpress.org
 Send out
 Info back thru Michael Brooks for redlines.
 Google doc?
 - collaboration process
 John Jack will start

Tax status? Non-Profit – public is able to access
 Design considerations – ADA or Not?
 - Required for Grants of permitting or Best Practices.

ONE Creek. partner w/ City – funding.
 Volunteer hours = \$ for grants.
 City

DATE: February 26, 2018
 TIME: 6:30 pm – 8:00 pm
 PROJECT: Parkwood Community Comprehensive Park Planning
 Re: Steering Committee Meeting #3 – Project Update

1. Review and Updates (15 min)

- Roles & Responsibilities of Steering Committee members
- Role of the Chair
- Purpose of Steering Committee meetings
- Opportunities for Community Input
- Discuss any updates or concerns from the committee

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 - Present to HOA Board and Public: early June
 - Final Approval by HOA Board: July Board meeting

★ Process
 {
 Recommendation
 May. Not
 Will

Acceptance.

of Copies – Final MP Report

• Sept Annual mtg.
 • Advertise public mtg: Board mtg.

★ Reserve Land

APPENDIX

COMMUNITY INPUT MEETING #1 SUMMARY



BASIC INFO

The initial formal community engagement with residents to collect information on their hopes for future developments in their community occurred at the Summer Festival in June, 2017. Those in attendance mapped their respective residences in the community and made notes on what types of changes they would like to see in their neighborhoods.

- June 24, 2017
- SummerFest
- Over 100 people attended, spoke with 10-15 people

MEETING FINDINGS | RESIDENCE MAPPING

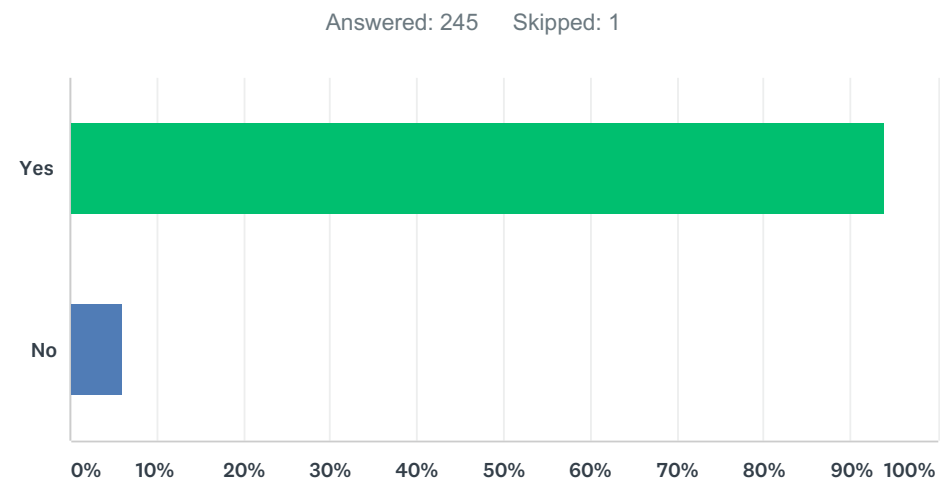
Attendees were asked to place pins at their respective residences in the community.



APPENDIX

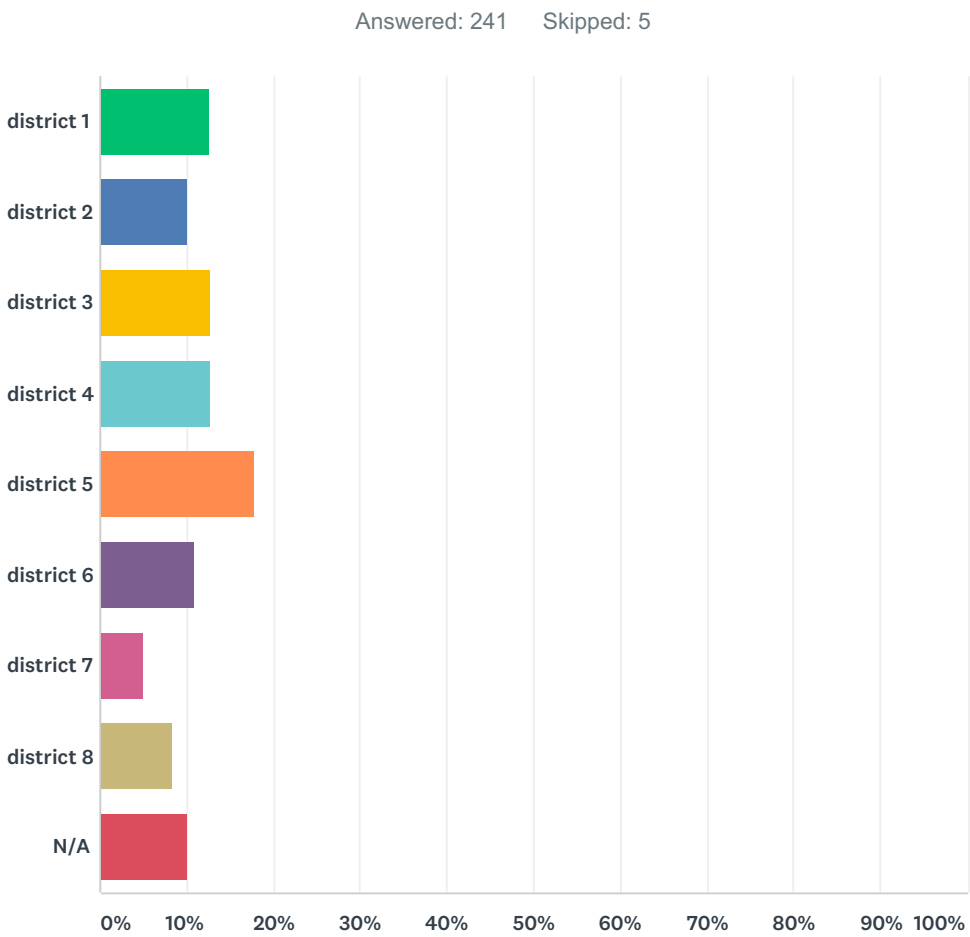
SURVEY RESULTS

Q1 Do you live in the Parkwood neighborhood?



ANSWER CHOICES	RESPONSES	
Yes	93.88%	230
No	6.12%	15
TOTAL		245

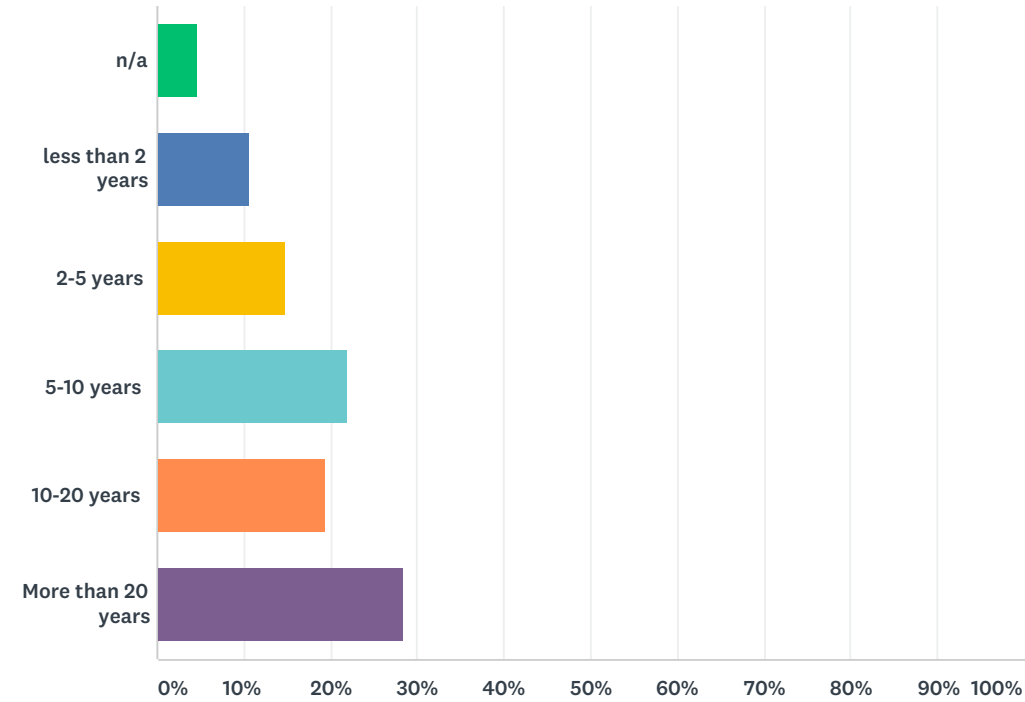
Q2 If yes, which district do you live in?



ANSWER CHOICES	RESPONSES	
district 1	12.45%	30
district 2	9.96%	24
district 3	12.86%	31
district 4	12.86%	31
district 5	17.84%	43
district 6	10.79%	26
district 7	4.98%	12
district 8	8.30%	20
N/A	9.96%	24
TOTAL		241

Q3 How long have you lived in Parkwood?

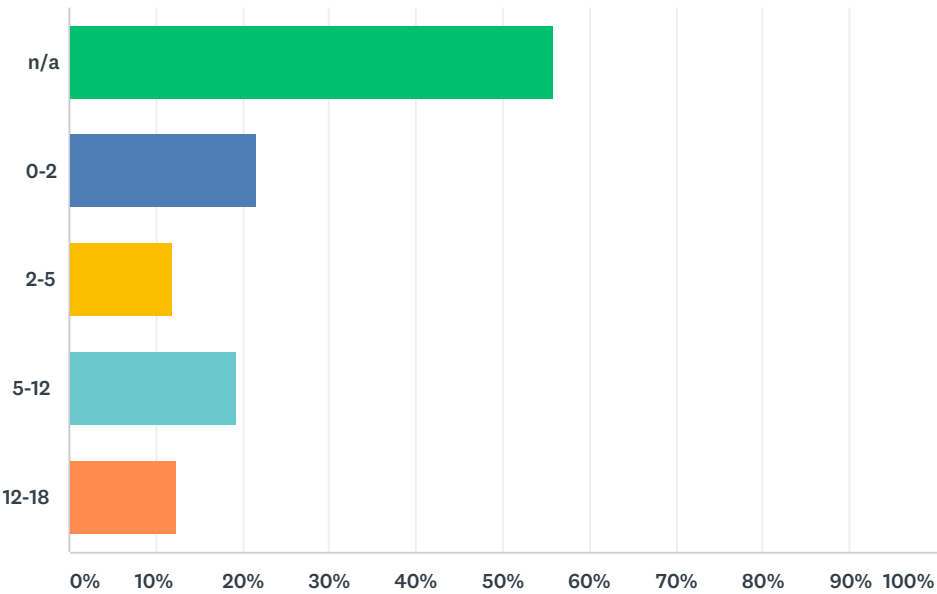
Answered: 242 Skipped: 4



ANSWER CHOICES	RESPONSES	
n/a	4.55%	11
less than 2 years	10.74%	26
2-5 years	14.88%	36
5-10 years	21.90%	53
10-20 years	19.42%	47
More than 20 years	28.51%	69
TOTAL		242

Q4 Are there children in your household and if so what ages? (select all that apply)

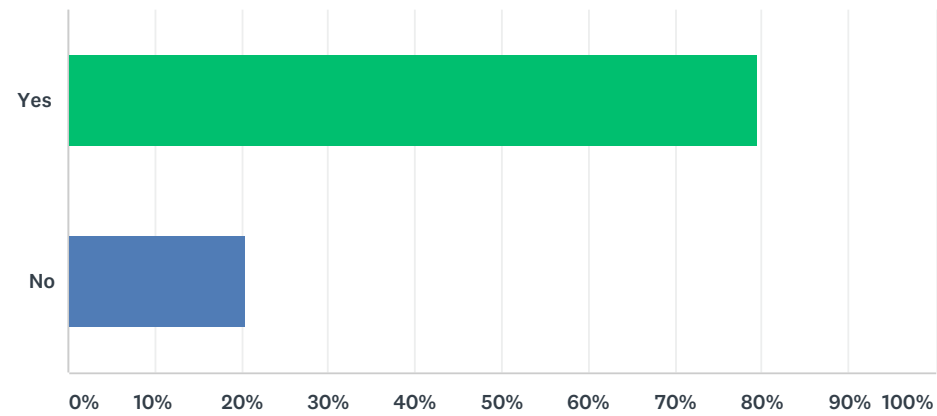
Answered: 245 Skipped: 1



ANSWER CHOICES	RESPONSES	
n/a	55.92%	137
0-2	21.63%	53
2-5	11.84%	29
5-12	19.18%	47
12-18	12.24%	30
Total Respondents: 245		

Q5 Do you use the existing parks and open space in Parkwood?

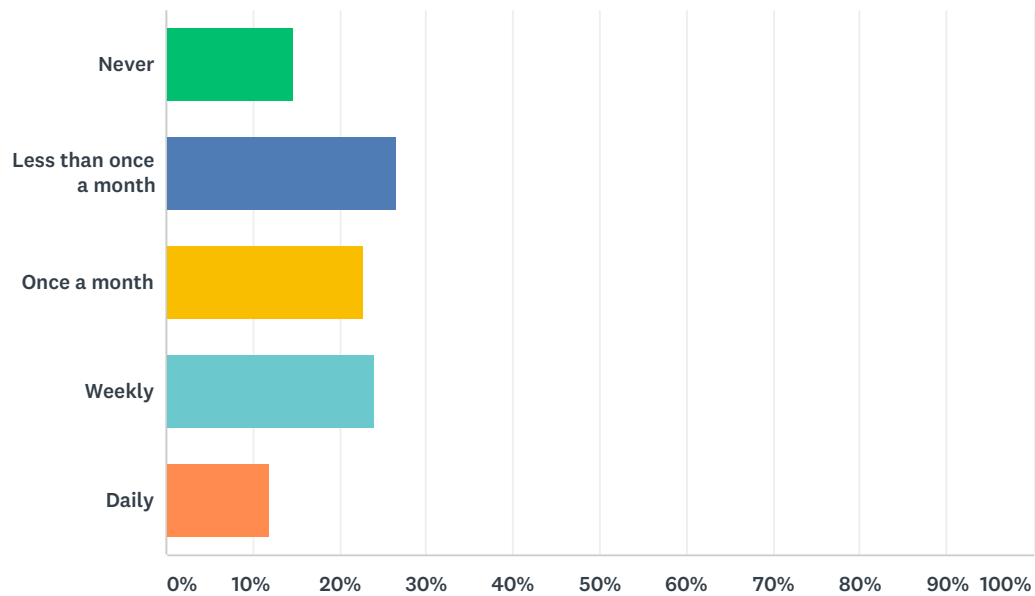
Answered: 243 Skipped: 3



ANSWER CHOICES	RESPONSES	
Yes	79.42%	193
No	20.58%	50
TOTAL		243

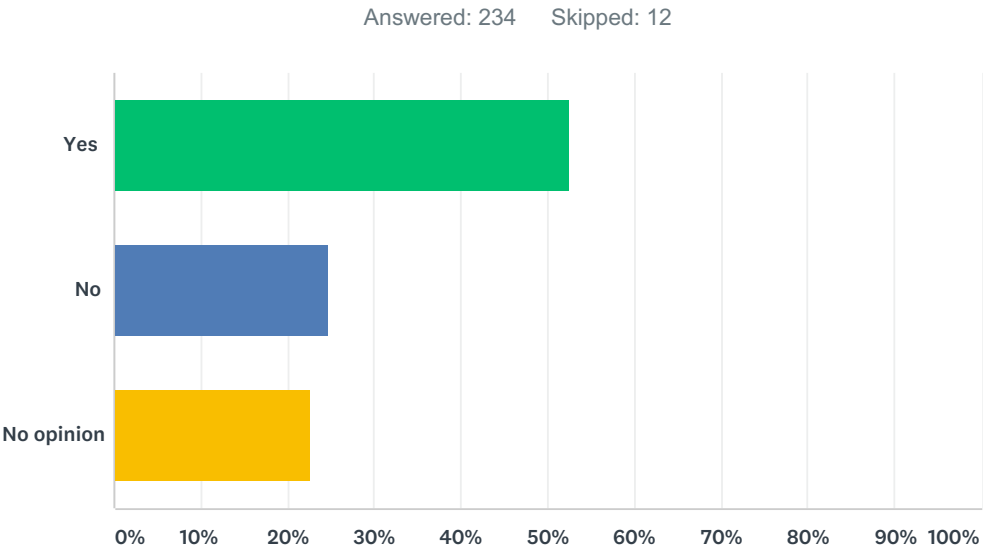
Q6 How often do you use the park and open space amenities in Parkwood ?

Answered: 245 Skipped: 1



ANSWER CHOICES	RESPONSES	
Never	14.69%	36
Less than once a month	26.53%	65
Once a month	22.86%	56
Weekly	24.08%	59
Daily	11.84%	29
TOTAL		245

Q7 Do you feel there are community needs that are NOT currently being met by your open spaces and parks?



ANSWER CHOICES	RESPONSES	
Yes	52.56%	123
No	24.79%	58
No opinion	22.65%	53
TOTAL		234

#	IF YES, PLEASE EXPLAIN:	DATE
1	Landscaping in some of the green areas in circle drives. More level walking areas. More benches at all the lake areas.	7/31/2017 9:49 PM
2	Explanation for answer # 17. I would agree to an increase of \$25 or even \$50. If it were \$50, it should be for just 2 or 3 years, to make up for the long overdue maintenance of the playgrounds, but not forever.	7/31/2017 6:05 PM
3	I feel not every park needs playground equipment. I believe the community would benefit from an area where residents could take their dogs and families for exercise and socialization. I DON'T feel like we should spend large amounts of money on. Families in this area with children, which are important, represent a very small percentage of our residents.	7/31/2017 1:32 PM
4	Dog Park	7/31/2017 6:28 AM
5	See items below, esp parking and a covered picnic table for the hidden park, and the new little playground on Euclid Road. Also, more benches for parents, near playgrounds.	7/30/2017 9:02 PM
6	more walkable trails	7/30/2017 8:32 PM
7	The parks that have been originally created w/ playground equipment have not been maintained well, nor updated. Instead useless equipment was put at a pond site that was unnecessary.	7/30/2017 2:59 PM
8	Dog parks	7/30/2017 2:02 PM
9	picnic areas, and or sitting if with children. Shade structures for coverage when very hot.	7/29/2017 10:14 PM
10	Parkwood Lake still brown.	7/29/2017 9:21 AM

11	There are (still) no trash cans in Hidden Park. The signs could be better for ALL of the parks. Currently, the spaces themselves are wonderful but look as if no one cares about them (peeling paint, rusting trash cans, minimal landscaping). Poison ivy is growing over all the trails, which we use daily. This is really a problem for people who are extremely allergic (me). The access points for all of the named parks and trails could also benefit from better signage and clearer access points. When we moved in, it took some guts to just wander down the various trails and hope we were not trespassing. It would also be nice to have more and better picnic tables or seating (benches, etc.) This is true at Euclid Pond, the pond at the corner of Revere and Clermont near the swimming pool (which to be fair actually does have some seating) and Hidden Park. I have very mixed feelings about the new playground equipment at Euclid Pond. On the one hand, we have used it with our nieces and it is great. On the other hand, it really detracts from the natural look and feel of Euclid Pond, where it is possible to do some great bird-watching. On the landscaping note, it would be wonderful to have more flowers and thought put into the landscaping. Do we need a Parkwood Gardens committee to make this happen? I would volunteer! (This is actually something that would be nice in ALL of the Parkwood common spaces). The landscapers just come around and mow the grass and do little else in the way of upkeep.	7/28/2017 5:06 PM
12	But please paint the basketball goal backboard!!!! It looks terrible!!!	7/28/2017 8:49 AM
13	Uncertain where community access to the lake is, if any	7/27/2017 8:18 PM
14	There r no tennis courts. Places for games such as badminton..croquet. I skateboarding	7/27/2017 5:47 PM
15	Parkwood clubhouse! Not the pool clubhouse	7/27/2017 4:59 PM
16	I feel more could be done to utilize the beautiful lake and ponds. Also we could use more equipment at the park by the lake.	7/25/2017 11:34 PM
17	It would be nice to have dog clean up bag stations around the neighborhood.	7/25/2017 9:33 PM
18	I would like to see more walking trails connecting the open spaces (i.e. a way to walk to lake from Revere Road. There used to be access via public green space but a resident blocked it?)	7/25/2017 2:41 PM
19	Sitting areas and water fun for kids.	7/24/2017 8:13 PM
20	The Sedwick park would be more useable with additional shade trees. Is the recent fence change at Sedwick park wheelchair accessible? Entrances to other parks could be more clearly marked and accessible.	7/24/2017 11:20 AM
21	A dog park would be great.	7/23/2017 12:47 PM
22	Kids need a place to play! The ball feild is a great place for kids to play. A park is also great but the place for a community.	7/22/2017 9:55 PM
23	A dog park would be great or even dog waste bins around our neighborhood.	7/22/2017 7:00 PM
24	Residents not cleaning up after their animal. Last time I sat on the bench on Euclid, it was a horrible experience with dog waste all around.	7/22/2017 12:07 PM
25	No upkeep	7/22/2017 12:03 PM
26	The hiking trail through to the ballfield has a lot of poison ivy. We would use it a lot more if the poison ivy were under control.	7/21/2017 4:59 PM
27	Stop turning natural areas into playgrounds	7/21/2017 3:06 PM
28	take the playground out at Euclid Pond.	7/21/2017 3:01 PM
29	It would be nice to have a bathroom with plumbing. Also, it would be nice to have updated bleachers.	7/21/2017 10:12 AM
30	The playground equipment is in bad shape. The bugs are also pretty bad. It would be good to have it professionally treated.	7/21/2017 10:11 AM
31	The only space we use is the baseball field as part of SDLL. That space works well for our purposes.	7/21/2017 10:05 AM
32	Better park facilities and equipment.....maintenance	7/20/2017 10:22 PM
33	The existing parks need updating and playground and/or tables, etc. put in place	7/20/2017 5:15 PM
34	Very unsafe play equipment, not easy to access. Not good signage. Not age appropriate equipment.	7/20/2017 3:34 PM



35	Need lighting.. picnic tables and charcoal grills.. and parking other than streets.	7/20/2017 3:23 PM
36	Better lake access (docks, tables), Better green spaces (improved paths and adding paths and signage)	7/20/2017 3:04 PM
37	They are under maintained and in serious need of updates. I only know of 2 and one of them is difficult to access. The other, by the lake, doesn't have good equipment, is poorly located and the landscaping is not maintained. What does our hoa do?? I see no neighborhood maintenance or upkeep from it.	7/20/2017 2:25 PM
38	More walking trails! Pool!!!!	7/20/2017 10:28 AM
39	More exciting and up to date playground equipment and sidewalks to get to the Sedwick park more easily.	7/19/2017 7:11 PM
40	Better connectivity to Parkwood Village trail and pool	7/19/2017 1:19 PM
41	Not enough tables. Difficult to get to some areas (lack of paths, entries from parking). No lake access. Too much "adult" trash -- empty beer bottles, etc.	7/19/2017 12:30 PM
42	- forums for ongoing discussion about Parkwood community - SAFE walking / biking routes to shopping	7/19/2017 11:28 AM
43	There are not sidewalks throughout the entire neighborhood, and although in most places the roads are wide, it would be nice to have more trails and sidewalks to avoid walking in the road with small children. I recently took my child to the tot lot, and while it's a great space, there was no shade over the play equipment and the equipment was too hot for my toddler to play on. Also, there is a trail that runs behind my house, and I feel like I cannot use it in the summer because it is slightly overgrown and there is a lot of poison ivy. I am allergic to poison ivy so try to avoid it at all costs. Additionally, when I try to cut from Revere to Newhall on that trail I get lost because the trail is not clearly marked on Revere. I like to cut through the Sedwick park from Pelham to the playground, however it's hard to push a stroller up that huge hill- it could use some grading and a clear, safe, pathway.	7/19/2017 10:05 AM
44	We need stands for doggie bags and trash bags. Parkwood has lovely trails and sidewalks for walking our pets but clean up could be made a lot easier with these additions. Other neighborhoods have had great success with them.	7/19/2017 9:04 AM
45	tennis courts	7/19/2017 8:28 AM
46	Benches and seating options	7/18/2017 9:43 PM
47	The tot lot (toddler park) needs some work... kind of boring. Maybe add a sandbox or more swings.	7/18/2017 9:22 PM
48	The Revere Rd park is terrible- old equipment, no shade, nowhere to sit.	7/18/2017 8:09 PM
49	A safe place for my dog to play off leash that is within walking distance. Engaging and updated playgrounds. Walking trails that are easy to access and not over grown	7/18/2017 8:07 PM
50	Lack of benches and updated playground equipment	7/18/2017 7:08 PM
51	Would like to see doggie poo bags to encourage people to pic after their pets	7/18/2017 6:57 PM
52	Clear walking and biking trails. Natural outdoor playground. Picnic areas. Access to the big lake for non-lakeside homeowners (a dock for example).	7/18/2017 6:51 PM
53	Better parks	7/18/2017 6:22 PM
54	It would be nice to have play areas for children with special needs. Mulch needs to be added more often at the Sedwick Road area.	7/18/2017 6:15 PM
55	Soccer fields are needed Better biking trails and access to ATT Better excess to put in canoes and kayaks into lake	7/18/2017 6:11 PM
56	We would love to have some longer trails to run on and also use for family walks. The current trails are fairly short and not super well-maintained.	7/18/2017 6:10 PM
57	A dog park would be great.	7/18/2017 5:47 PM
58	Walking trails need better even paths	7/18/2017 5:13 PM

59	I'd love to have a fenced dog park. Also a public pier on the lake to launch a kayak or canoe from. There is too much child-centric parkland already, how about some for adult use? Also, sidewalks are extremely important! And maintaining existing sidewalks even moreso (there is always brush and overgrowth interfering with walking on the sidewalks)	7/18/2017 5:11 PM
60	Not much for adults.	7/16/2017 8:26 PM
61	Covered areas and adult fitness	7/15/2017 4:42 PM
62	improvement to be accessible and safe (well lit, sidewalks, ramps and paths for strollers and wheelchairs). playground equipment that is universal, fun,and safe	7/14/2017 3:17 PM
63	Dog park	7/14/2017 12:22 PM
64	Community spaces seem to be bare-minimum maintained. Most parents, include me, take their kids to playgrounds miles away because the Parkwood playgrounds are subpar to city playgrounds. The parks themselves lack the simplest of amenities such as seating, shelters, pathways, etc.	7/14/2017 10:51 AM
65	Parks are maintained at a fraction of the care and detail that we had when I moved to Parkwood. Overgrown paths, poison ivy everywhere, previously mowed areas left to become shabby looking	7/14/2017 7:20 AM
66	Maintenance continues to cut corners to the detriment of the parks' ambience and safety.	7/14/2017 6:21 AM
67	The tot-lot is outdated and needs proper drainage.	7/13/2017 9:21 PM
68	Many residents love the open spaces and ponds as natural areas to fish, bird watch and enjoy nature, and they want to maintain the pond areas as natural areas. In 2017 120 parkwood homeowners signed a petition to relocate the play structure that was recently installed at Euclid pond (Dec 2016) to one of the existing playgrounds, and to keep the Euclid pond area as a natural area and fishing pond. The play structure at Euclid pond creates an unsafe play area for children, creates high levels of noise and litter that is a disturbance to the residents who live in the area.	7/13/2017 9:07 PM
69	Playgrounds that meet needs of multiple ages at the same location	7/13/2017 8:25 PM
70	I feel as though the playground spaces are not engaging for my age children (4 and 15mo) - we often go to AP/Lyons Farm for play structures	7/13/2017 8:23 PM
71	Sidewalk on Sedwick side Of the lake. Sprayground would Be fun too! Or climbing wall/stuff for bigger kids (8+)	7/13/2017 8:22 PM
72	Soccer fields! A trail to the shopping center off Sedwick and 55.	7/13/2017 4:03 PM
73	limited access to the large Lake. Need sandy beach....	7/13/2017 2:49 PM
74	Repairs to existing equipment, improvements to grounds.	7/12/2017 4:34 PM
75	Maintenance/upkeep of existing equipment & grounds.o	7/12/2017 4:28 PM
76	Not sure if I could get a kayak into the lake from my car In other words, no launching site	7/11/2017 11:35 PM
77	Accessibility for strollers/wheel chairs Covered pavilion space Proper drainage in the tot lot	7/11/2017 7:59 PM
78	More sidewalks. There are many more people walking and running in Parkwood than any other activity. Playgrounds are way under utilized.	7/11/2017 2:44 PM
79	I feel like a little more could be done with our parks and open spaces. Signage is big with me. I don't like how people can go and congregate in the parks at night. This is asking for trouble. I also feel like we should be having more community outreach as well. More community events could help bring the community together.	7/11/2017 12:13 AM
80	Additional parking is needed by the community pool.	7/10/2017 8:45 PM
81	Dog Park, Swimming Pool that is covered under the HOA fees	7/10/2017 7:17 PM
82	The money is spend on stuff that is not need.	7/10/2017 5:16 PM
83	We need an accurate map of all walking trails in Parkwood. I am new to the area and have no idea how to find the trails and what's they go, and have been unable to find anyone who has a current map.	7/10/2017 3:52 PM

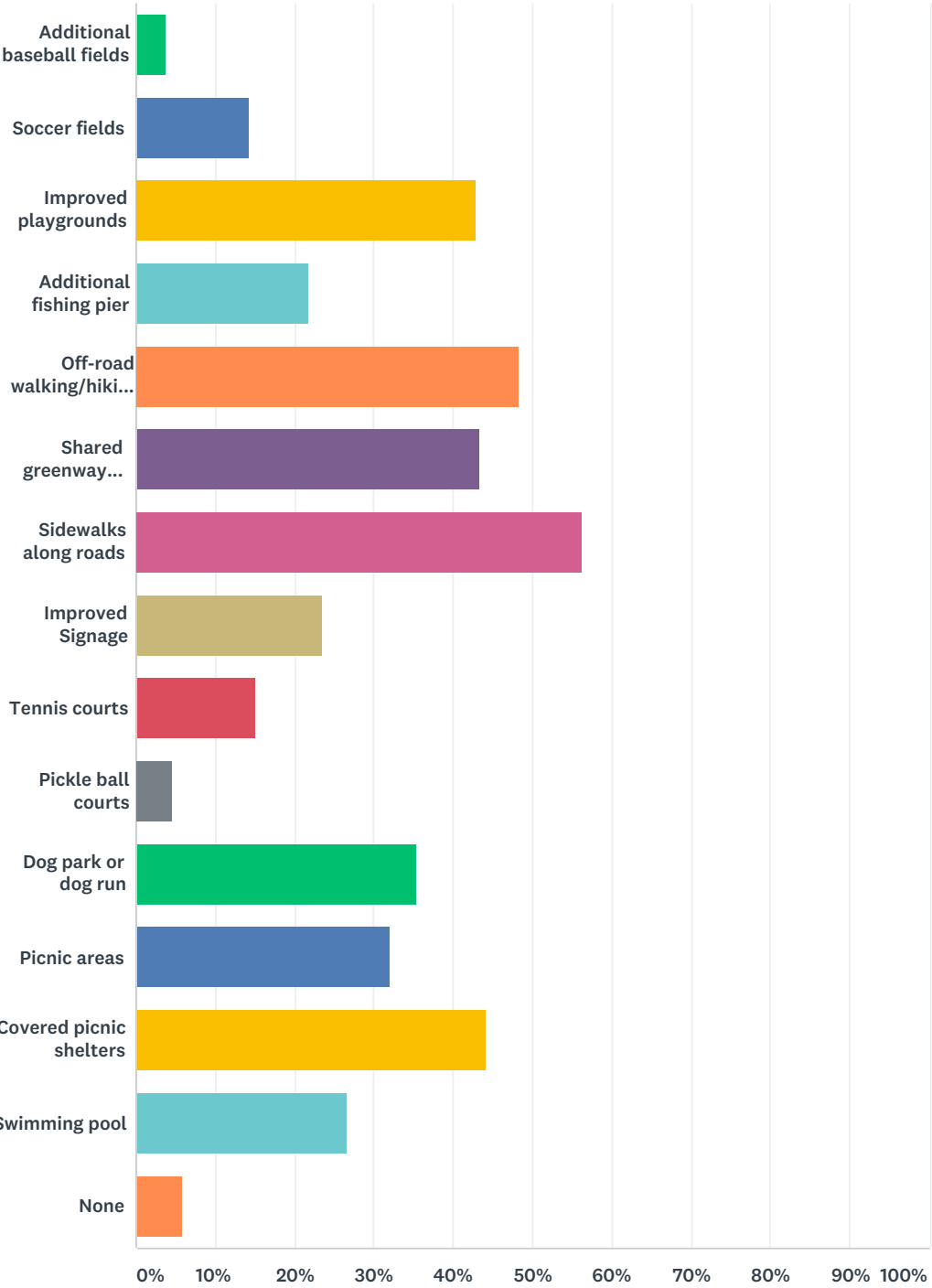
84	Seems like there's a lot of green space that could be developed more. Spruce up areas with flowering trees. I'd like to see some adult fitness equipment added. Here are some examples: https://www.google.com/search?q=adult+workout+in+parks&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwjAq4D5uv_UAhWENSYKHfWOA4gQsAQIWg&biw=1244&bih=661	7/10/2017 3:49 PM
85	Parks should be used more regularly for community events	7/10/2017 3:30 PM
86	Covered picnic areas for outdoor gatherings.	7/10/2017 2:58 PM
87	Would love to be able to have picnic tables without vandalism but I can't see that happening.	7/10/2017 2:48 PM
88	Some common areas are old and neglected	7/10/2017 2:44 PM
89	Perhaps... We could add features to existing parks/playgrounds such as horse shoes or boccie ball.	7/10/2017 1:52 PM
90	Need benches at playgrounds for child caregivers to sit.	7/10/2017 1:49 PM
91	More useable parks are needed	7/10/2017 1:30 PM
92	Safer walking areas	7/10/2017 12:47 PM
93	I think a dog park would be great, some trail head signs for the greenway trails throughout the neighborhood. Hidden Park playground desperately needs to be upgraded	7/10/2017 12:37 PM
94	Easy access to public transportation. Also, health of ponds and lakes. They are very unhealthy and quickly becoming a public health hazard.	7/10/2017 12:18 PM
95	Need picnic grilling area for families and dog park	7/10/2017 12:08 PM
96	Upkeep/upgrades of existing play constructions and playgrounds	7/10/2017 11:57 AM
97	I'd like to see more access to the lake, with a walking trail or dock and maybe updated playground equipment at the Sedwick Rd. park. Most of the equipment is too big for the 2-11 year olds I take to the park. I'd also love to see a water feature in that area.	7/10/2017 11:56 AM
98	They mostly have older equipment and the grounds aren't taken care well in some of the playgrounds.	7/10/2017 11:50 AM
99	I am disabled but walking; I cannot get to many of the lots safely, once I do, there is often no place to sit. I think all of Parkwood would benefit from covered bus stops at the bus stops. I know, I know, a purely socialist idea to some. But our residents use the bus stops, and it makes me so sad to see people wilting in the heat or shivering in the cold. I would also like to see more benches, tables in some of the green space. For example, there's a huge HOA lot on Radcliff Circle. How about a covered table on these spots?	7/10/2017 11:48 AM
100	Park access and trails for bikes and hiking around the neighborhood.	7/10/2017 11:47 AM
101	There is not a clubhouse or community space for hosting indoor events. The pool is in a terrible location. Playgrounds are in need of updating.	7/10/2017 11:46 AM
102	I was just thinking with the increase in property values that we could do a little better updating our recreational spaces. I personally would be willing to pay a higher HOA fee even.	7/10/2017 11:38 AM
103	So many residents have dogs that a dog park would be a wonderful addition to the neighborhood.	7/10/2017 11:34 AM
104	Parks/playgrounds needs updating, better walking trails that are clearly marked so I don't feel like I'm walking through someone's yard would be better. also, we have nothing in our neglected neighborhood from the HOA (district 8) and don't like seeing all the development and funding going so far beyond our district.	7/10/2017 10:50 AM
105	Access to the lake with children is very difficult if you are not a lakefront owner. I wish there was a path to walk around the lake. Not sure what the easement is there.	7/10/2017 10:49 AM
106	The park at the end of Parkwood lake on Sedwick road has plenty of space for a Tennis court. That is all I have to say.	7/9/2017 7:51 PM
107	I think a fenced-in dog park would be very popular among residents.	7/9/2017 2:30 PM
108	Most of the parks are too muddy, have ant issues, or no shade (hot equipment) we use them much more in the 3 seasons other than summer	7/7/2017 8:56 AM
109	Better maintained trails. SIGNS for the trails.	7/6/2017 2:35 PM

110	Dog park	7/4/2017 8:08 PM
111	Parks need to be upgraded	7/4/2017 10:02 AM
112	Toddlers don't have a safe space to play without constant parental attention -- Tot Lot could use a lot of work. A fitness area for active adults would be great. Something like the parks in SoCal and Brooklyn. A running or jogging trail would be good. Especially if it connected all the parklands and playgrounds. We have this great lake, but really only people who live on the lake have access. Some kind of dock or launching area would be wonderful.	7/4/2017 8:45 AM
113	More maintained trail systems, better maintenance of existing playground and athletic (basketball etc) facilities. Sidewalk that goes along Sedwick road. People drive too fast on that road not to have a sidewalk, when many people walk along this road to walk around the lake, access the playgrounds, or elsewhere.	7/3/2017 11:16 AM
114	Kept clear of undergrowth and tall grass to discourage pests and vermin	7/2/2017 7:14 PM
115	I am single and have no friends, no use for the parks. Many people do use them and are a good thing. I would like to see a couple of tennis courts with a separate area with a wall to practice against. The swamp / woods area at the end of Clermont Rd, I would like to see trails made for bicycling & walking. A trail to Food Lion is needed as well. Would like to see a trail going from Parkwood to the American Tobacco Trail.	7/2/2017 4:38 AM
116	The lake water is so brown	7/1/2017 9:31 PM
117	I am happy to learn that the playgrounds are being evaluated and will be upgraded.	7/1/2017 5:02 PM
118	We would use the play area near our house more if it was more up to date and have more climbing structures. I think kids really love to climb.	7/1/2017 11:44 AM
119	The best, and only desirable park (in my opinion) is the one behind the lake off of Sedwick Rd. The open field is good, but needs to be mowed more often. The grass tends to be pretty high on a normal basis which makes it difficult to enjoy the open area. Also, the playground is quite a bit dated with cracks, wear and tear, and fading. It would also be nice if there were equipment options better suited for smaller children. Sidewalks that connect and make sense as a walking route would be much appreciated! I live on Clermont, and the sidewalks are very choppy, making us have to walk in the road, which is not ideal with small children. If there was a sidewalk or path that were available to the lake from Clermont road, I would feel much safer!	6/30/2017 2:16 PM
120	There are not a lot of gathering points for neighbors. For example, if someone wanted to have a community potluck, there's not an outdoor park/space for that. I'd also like to see the addition of the things listed in question 8.	6/26/2017 2:49 PM
121	More trails, more recreation opportunities, and informing the community about what assets are or are potentially available.	6/23/2017 3:12 PM



Q8 What additional (if any) amenities would you like to see in your park system? (select all that apply)

Answered: 238 Skipped: 8



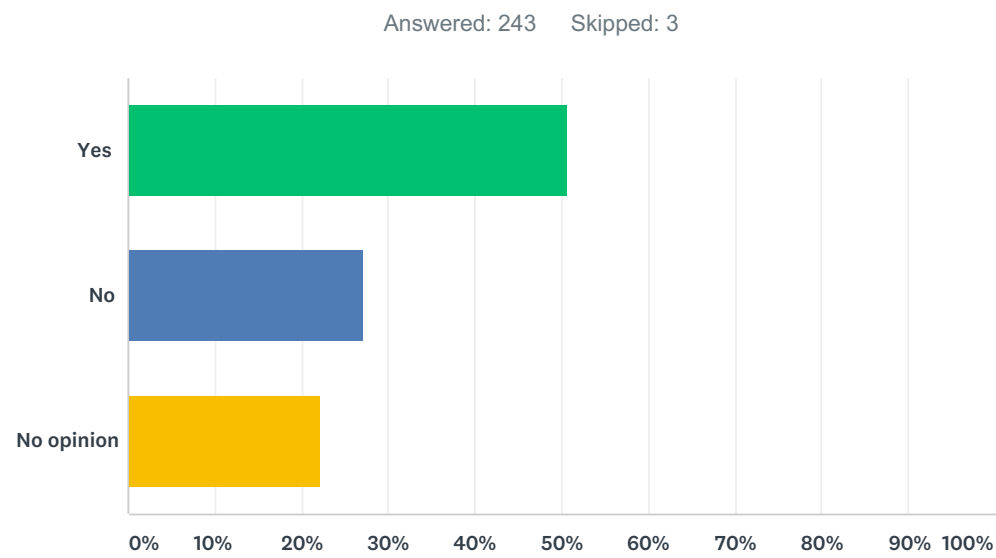
ANSWER CHOICES	RESPONSES	
Additional baseball fields	3.78%	9
Soccer fields	14.29%	34

Improved playgrounds	42.86%	102
Additional fishing pier	21.85%	52
Off-road walking/hiking trails	48.32%	115
Shared greenway bike/pedestrian paths (10-12 feet wide)	43.28%	103
Sidewalks along roads	56.30%	134
Improved Signage	23.53%	56
Tennis courts	15.13%	36
Pickle ball courts	4.62%	11
Dog park or dog run	35.29%	84
Picnic areas	31.93%	76
Covered picnic shelters	44.12%	105
Swimming pool	26.47%	63
None	5.88%	14

Total Respondents: 238		
#	OTHER (PLEASE SPECIFY)	DATE
1	When I moved into Parkwood I was given a map that showed the common spaces and legal entrances to them between houses. I found out that many of the legal entrances had been blocked by people putting up fences or throwing mountains of yard waste onto the pathways.	7/31/2017 6:05 PM
2	The dues we presently pay should be better utilized and planned out in order to take care of these needs. Dues should not have to be increased in order to take care of these improvements!	7/30/2017 2:59 PM
3	We do not need a new swimming pool. However, it would be great it Parkwood Residents could get a discount for joining the Parkwood Swim Club.	7/28/2017 5:06 PM
4	Better pool	7/28/2017 12:04 AM
5	Will someone please help get rid of the half-wild dogs living by the lotus pond?	7/25/2017 2:41 PM
6	football areas, volleyball courts	7/24/2017 8:13 PM
7	handicap accessibility	7/24/2017 11:20 AM
8	My recommendation is to lease the baseball field to South Durham Little League (SDLL) and let them maintain it. Parkwood little league is pretty much non existent now as the vast majority of players have moved over to SDLL. This would generate cash flow for the HOA and relinquish the responsibility to maintain it. SDLL is a thriving organization with a proven track record of well maintained fields.	7/23/2017 5:55 PM
9	Basketball courts	7/22/2017 7:28 PM
10	More natural open space (or preservation of natural open spaces)	7/22/2017 5:29 PM
11	better maintenance	7/21/2017 3:06 PM
12	Before considering to add additional playground equipment I believe we should better maintain the existing.	7/21/2017 10:37 AM
13	Clean up the swimming pool area,if it is part of the HOA, add a small playground beside it as well as one by Euclid Pond. Pier on the lake side (across from lily pond and on dam side) - Picnic shelters/tables all around the lake. If I was buying I would approve increased HOA fees to improve and expand what we have.	7/20/2017 5:15 PM
14	Sidewalks on Sedwick would be good	7/20/2017 3:37 PM
15	We need a pool for those who pay HOA fees don't have to pay extra for.	7/20/2017 3:23 PM

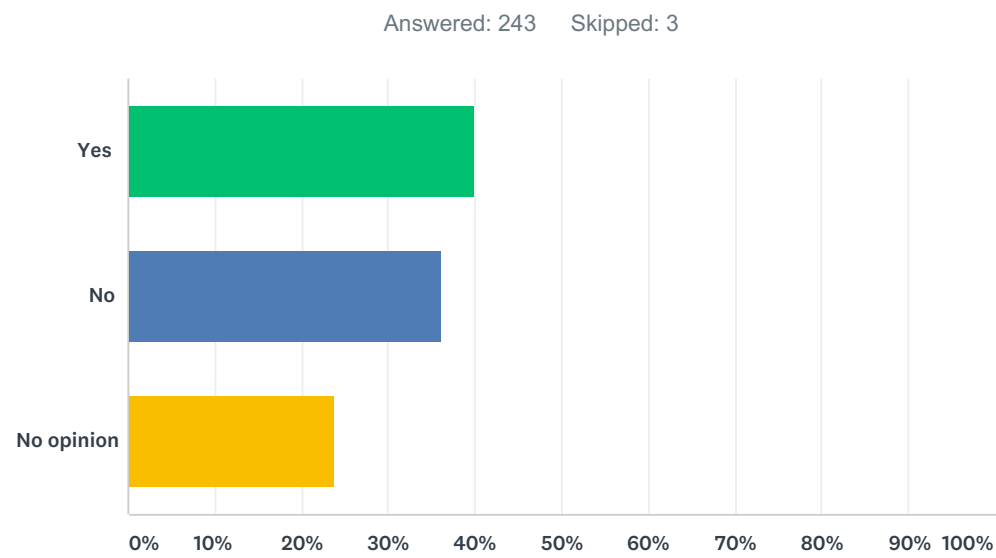
16	we lived in Parkwood proper until we moved into Parkwood Village Townhomes and love the openspace in this area We would love an emphasis on what impact the natural areas have on wildlife and liviability	7/19/2017 1:19 PM
17	Compan park equipment in playgrounds. Safer, better, engaging.	7/19/2017 12:33 PM
18	Bus shelters. Trash cans. Would rather have a splash ground than a pool.	7/19/2017 12:30 PM
19	better marked and welcoming boat launch areas to encourage boating use for residents who don't live on the	7/19/2017 11:28 AM
20	Improving current sidewalks	7/18/2017 9:43 PM
21	Adult playground	7/18/2017 6:51 PM
22	Pool!!!!	7/18/2017 6:22 PM
23	Cut a deal with duke energy to bury the power line. Nothing would increas the beauty of our neighborhood more and our propret value	7/18/2017 6:18 PM
24	A path around the big lake; dog poop stations mileage markers for walking/running in the n'hood with a starting point at the HOA office. NO new or upgraded playgrounds are needed.	7/16/2017 10:10 AM
25	Maintain what we have w/additions made as needed.	7/15/2017 5:08 PM
26	safe walking trail to stores and restaurants behind our neighborhood (cough cough glass jug :)	7/14/2017 3:17 PM
27	Basketball court	7/14/2017 12:22 PM
28	Better Maintenance	7/14/2017 6:21 AM
29	Many residents love the ponds for fishing, bird watching etc...and would prefer natural plantings to enhance their beauty.	7/13/2017 9:07 PM
30	Kayak access	7/13/2017 2:49 PM
31	Launching site for kayak	7/11/2017 11:35 PM
32	Grills	7/11/2017 7:59 PM
33	Improved signage to mark the home owners land from parkwood.	7/10/2017 5:16 PM
34	Adult outdoor workout equipment. Rebuild the dugouts at the ballpark, or at the very least paint them. Honestly, they look like they're ready to fall down!	7/10/2017 3:49 PM
35	Shuffleboard	7/10/2017 1:30 PM
36	Never heard of pickleball before but it looks like fun.	7/10/2017 12:37 PM
37	Maybe a tennis court, as long as this project can stay withing the current budget. Please no increase in annual HOA fees.	7/10/2017 11:57 AM
38	The people who buy on the lake seem to feel that ONLY THEY can use the lake. I'm tired of my HOA fees going to dredge the lake, fix sediment problems in the lake, fix the lake drainage when the people with houses on the lake act as if it's trespassing to go look at the lake. That lake doesn't drive MY home value up, especially with no access and no tables or piers.	7/10/2017 11:48 AM
39	The HOA Office, ball field and pool area needs a SERIOUS facelift.	7/10/2017 11:46 AM
40	Dog waste bag stations and garbage throughout the neighborhood	7/10/2017 11:38 AM
41	It would be awesome if we could workout a deal with a Parkwood swim club for homeowners.	7/10/2017 10:49 AM
42	Green space without play equipment for serenity in our increasingly developed area	7/4/2017 8:08 PM
43	Parking for hidden park should remain as is. Extremely opposed to any parking lots for hidden park.	7/4/2017 10:02 AM
44	Inexpensive restaurant with take-out, maybe with a pool room and ping pong.	7/2/2017 4:38 AM
45	Bike lanes, specifically ALL of Sedwick from 55-Grandale, The area around the Sedwick playground is dangerous on a bike. If no bike lane all the way to 55, We sure could use a sidewalk!	7/1/2017 11:44 AM
46	Frisbee golf course	6/23/2017 3:12 PM

Q9 Do you believe existing community park facilities are well maintained?



ANSWER CHOICES	RESPONSES	
Yes	50.62%	123
No	27.16%	66
No opinion	22.22%	54
TOTAL		243

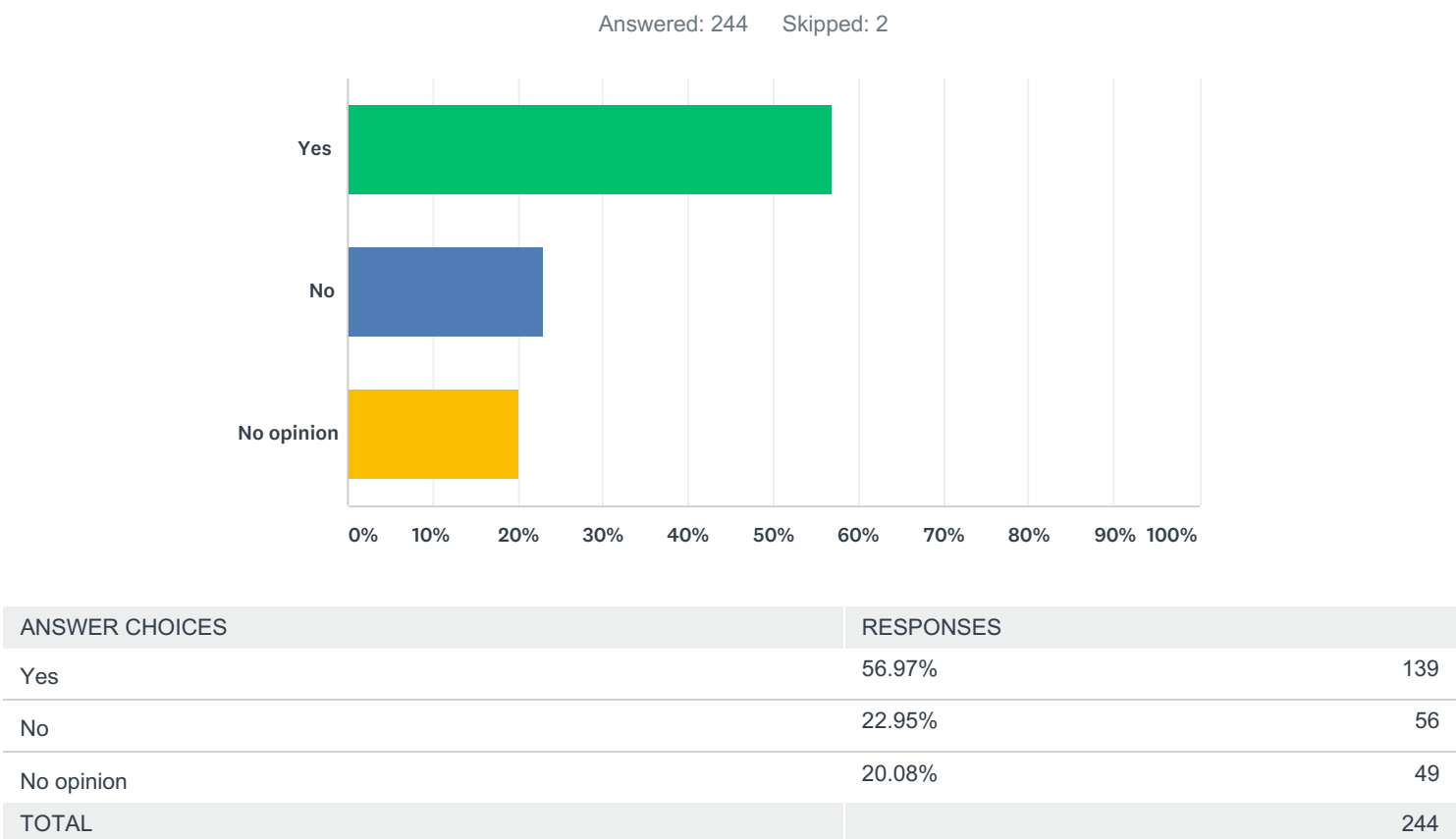
Q10 Do you believe there is sufficient parking at existing park facilities?



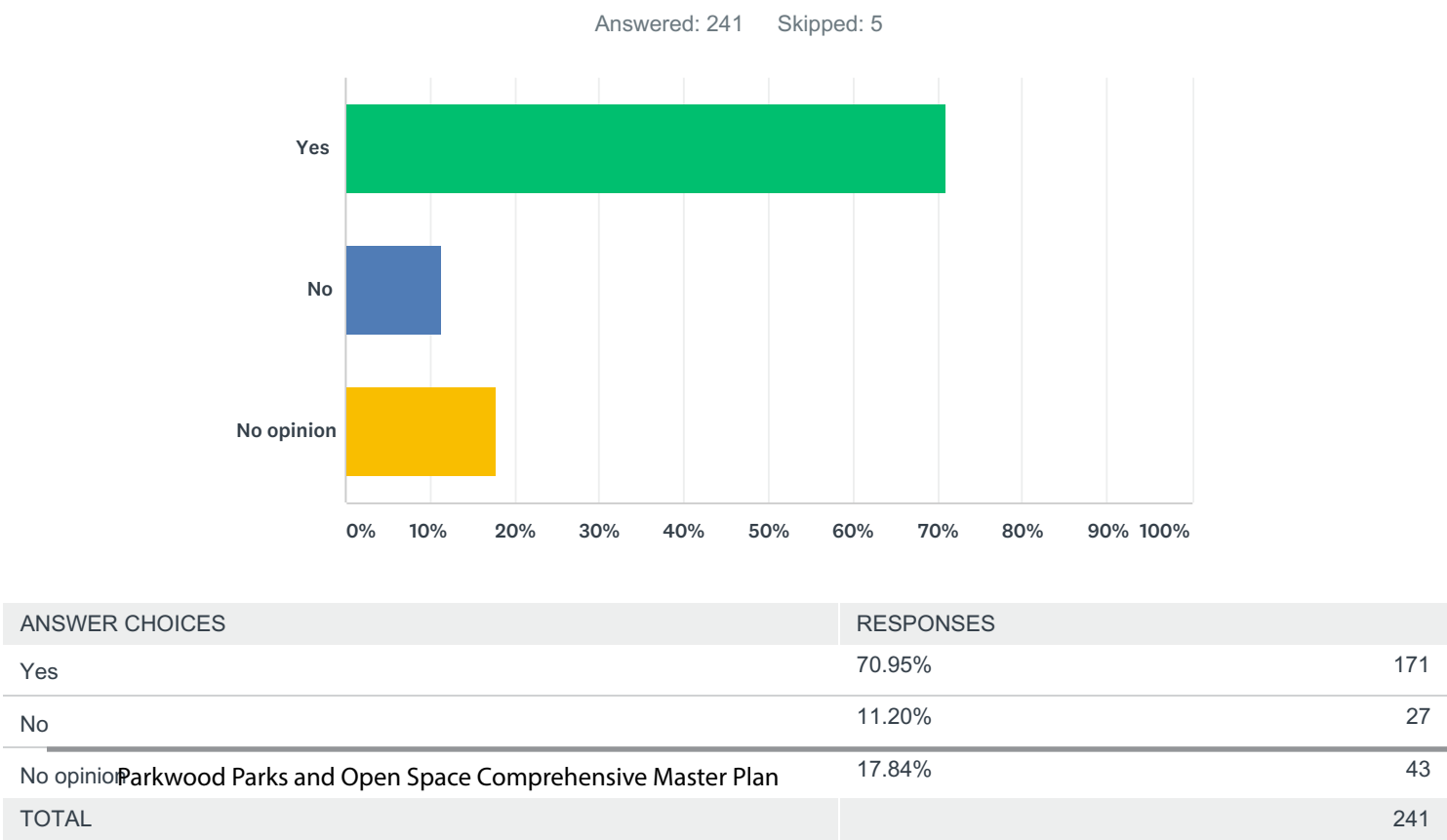
ANSWER CHOICES	RESPONSES	
Yes	39.92%	97
No	36.21%	88
No opinion	23.87%	58
Parkwood Parks and Open Space Comprehensive Master Plan		243



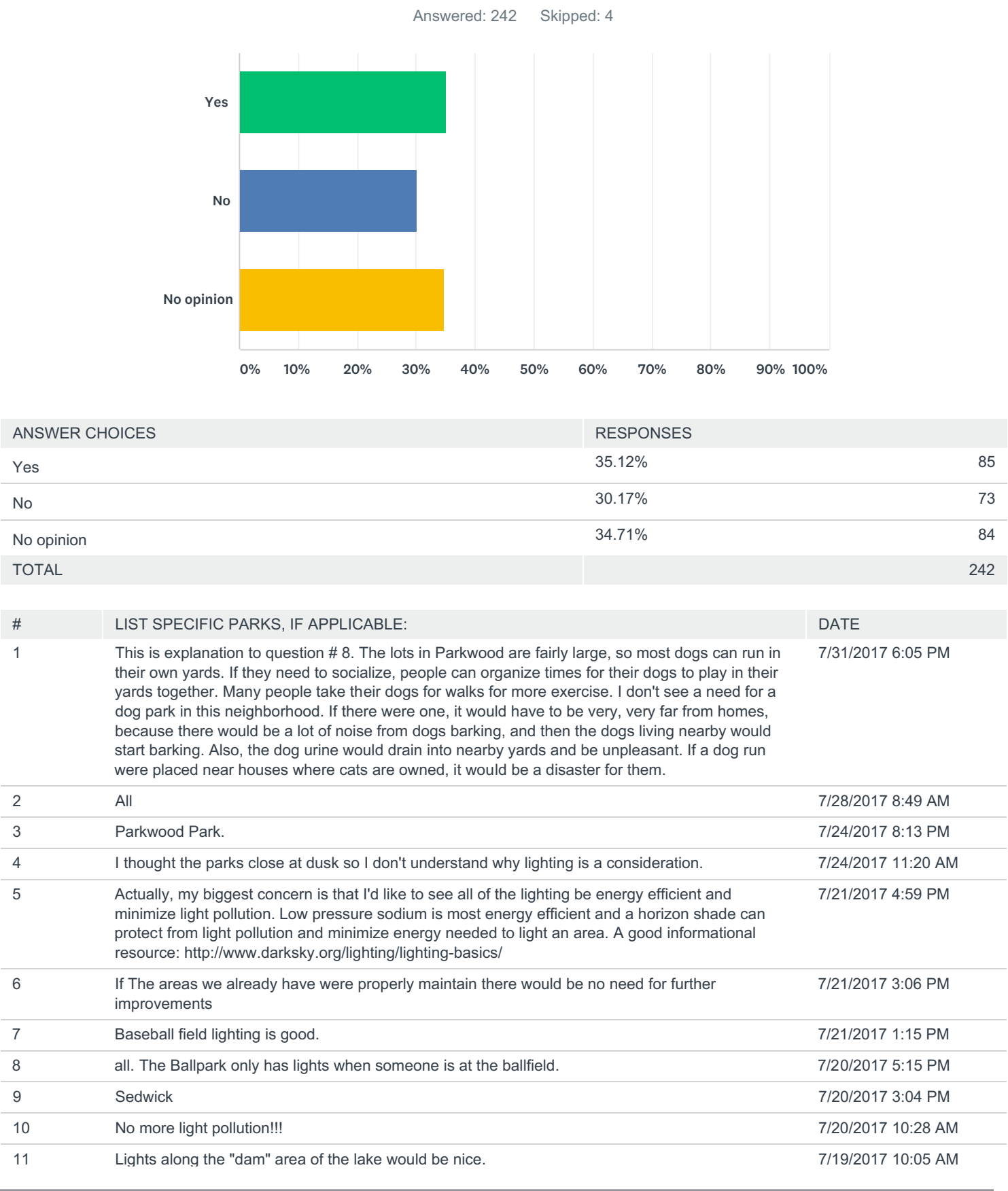
Q11 Do you believe there is adequate opportunity to access the ponds and lakes?



Q12 Do you feel community open space and park areas are safe?

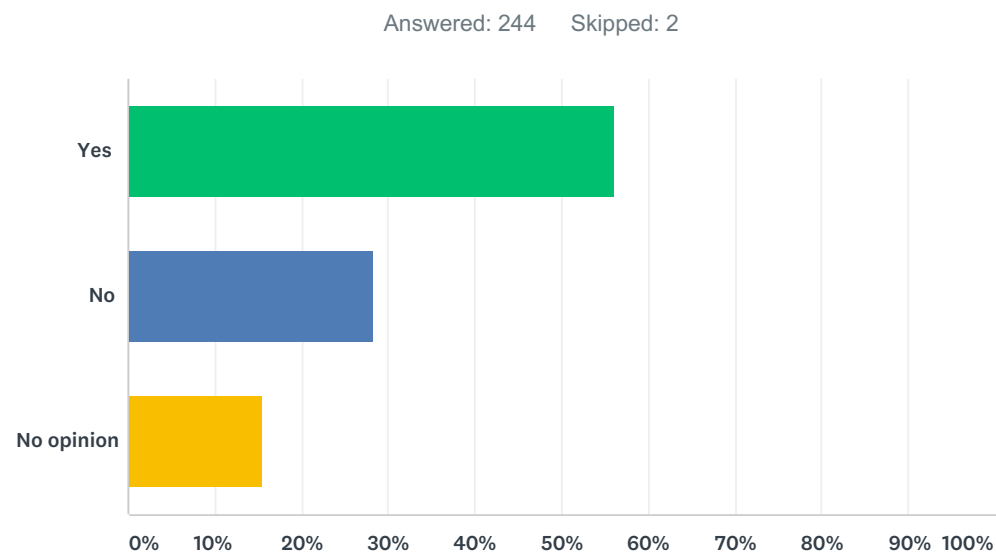


Q13 Do you feel additional lighting is needed at the existing parks?



12	I think overall extra lights are needed throughout the whole neighborhood.	7/19/2017 9:37 AM
13	Additional light in general would be helpful around the neighborhood.	7/19/2017 9:04 AM
14	All of them	7/18/2017 8:07 PM
15	Euclid and Tot Lot. We don't go to Sedgwick after the teens started congregating there after dark.	7/18/2017 6:51 PM
16	Use solar	7/18/2017 6:11 PM
17	The parks close at night, but since they are private, with lighting none of them should have to.	7/14/2017 10:51 AM
18	The park at the lake off Sedwick Rd definitely needs more lighting and also needs signage telling people (and the police) that the park is closed at night.	7/11/2017 12:13 AM
19	main lake and lotus (well not anymore) pond	7/10/2017 7:17 PM
20	All of them. Maybe even install an emergency phone at each location. Would come in handy day or night.	7/10/2017 3:49 PM
21	Sedwick	7/10/2017 2:58 PM
22	I am in a wheelchair and would love to go around Parkwood. Having to be on the road then trying to get on the sidewalk is difficult. I dont go out at night, can't tell about the latter. While I have your attention in reading this I feel Parkwood should be more aware of the conditions of the messy yards....junk, unkept etc.	7/10/2017 2:48 PM
23	Parks close at dusk and there is no need for lights when people should not be there. Additional lighting would encourage people to stay in parks after they are closed.	7/10/2017 1:52 PM
24	Not sure.	7/10/2017 12:37 PM
25	Hidden Park	7/10/2017 12:37 PM
26	Every park in Parkwood.	7/10/2017 11:46 AM
27	Questions 16,17 Need to include duration of time before these new improvements are accomplished and more detail.	7/9/2017 7:51 PM
28	Additional lighting along the lake would make me feel safer when I need to walk my dog there.	7/9/2017 2:30 PM
29	sedwick rd/dam needs parking lot and basketball court lighting	7/6/2017 2:35 PM
30	I don't visit at night so not sure	7/4/2017 8:08 PM
31	We don't go to playgrounds at night	7/4/2017 10:02 AM
32	Sedwick	7/4/2017 8:45 AM
33	All	7/3/2017 12:09 PM
34	The park along Pelham road does not have sufficient lighting at night; while there is an "after dusk" sign, there is often debris from nights prior indicating folks were taking advantage of the dark park to drink etc.	7/3/2017 11:16 AM
35	Most likely and by the pond / lake area on Clermont Rd. Question 17 - money is an issue for me, therefore don't want an increase in HO Dues. It could be a voluntary thing. Maybe Parkwood could find something to sell (non-profit) to assist with costs.	7/2/2017 4:38 AM
36	We are rarely in the park lands at night, but I have mixed feelings. More light might =safety but ground light blocks views of the stars, etc.	7/1/2017 11:44 AM
37	The Park off of Sedwick Rd. has very little to no lighting.	6/30/2017 2:16 PM
38	Per Parkwood rules, parks close at dusk (although more signage is needed), so extensive lighting isn't needed.	6/23/2017 3:12 PM

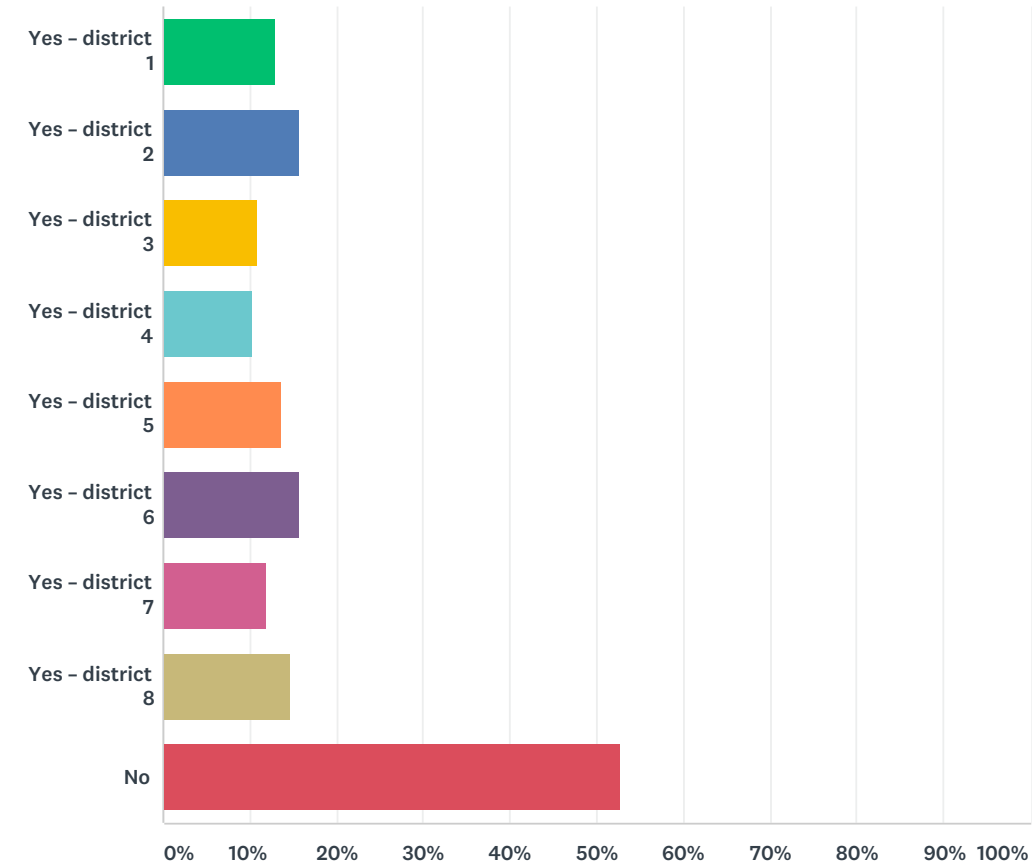
Q14 Do you feel the community’s parks and open space areas are accessible to all neighbors?



ANSWER CHOICES	RESPONSES	
Yes	56.15%	137
No	28.28%	69
No opinion	15.57%	38
TOTAL		244

Q15 In your opinion, are there additional amenities needed in specific areas of the neighborhood? (see map below; select all that apply)

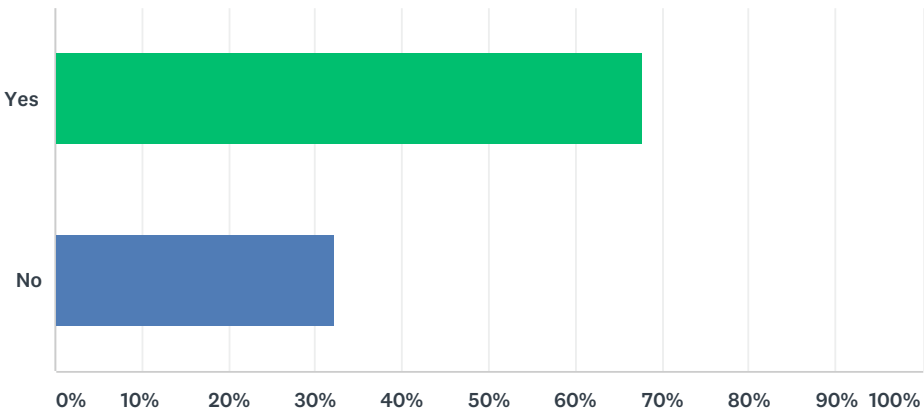
Answered: 184 Skipped: 62



ANSWER CHOICES	RESPONSES	
Yes – district 1	13.04%	24
Yes – district 2	15.76%	29
Yes – district 3	10.87%	20
Yes – district 4	10.33%	19
Yes – district 5	13.59%	25
Yes – district 6	15.76%	29
Yes – district 7	11.96%	22
Yes – district 8	14.67%	27
No	52.72%	97
Total Respondents: 184		

Q16 Would you be willing to consider an increase in your HOA dues (currently \$225/year) to improve or upgrade the parks and open space in Parkwood?

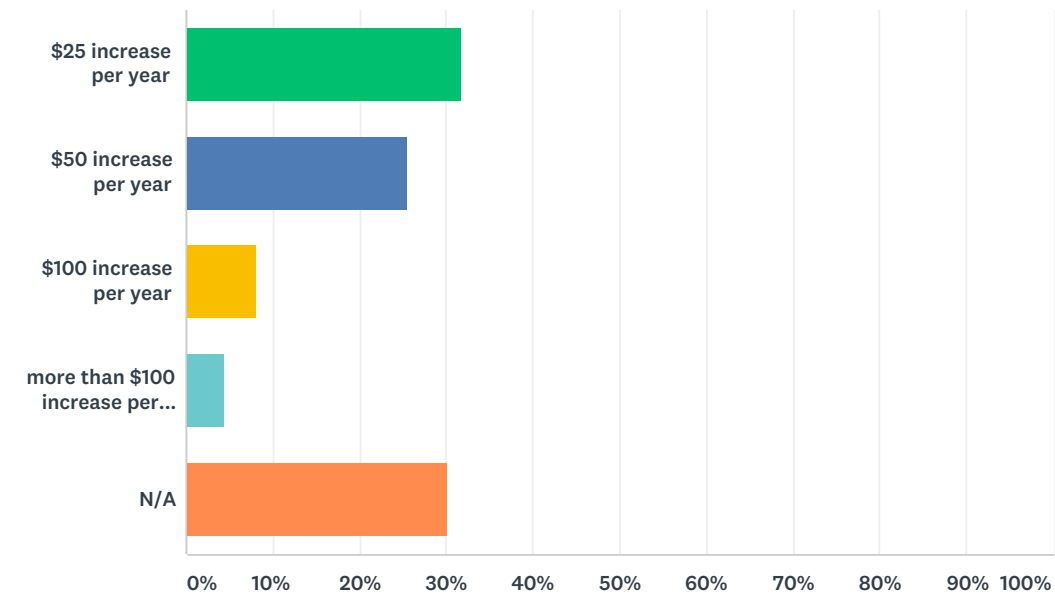
Answered: 236 Skipped: 10



ANSWER CHOICES	RESPONSES	
Yes	67.80%	160
No	32.20%	76
TOTAL		236

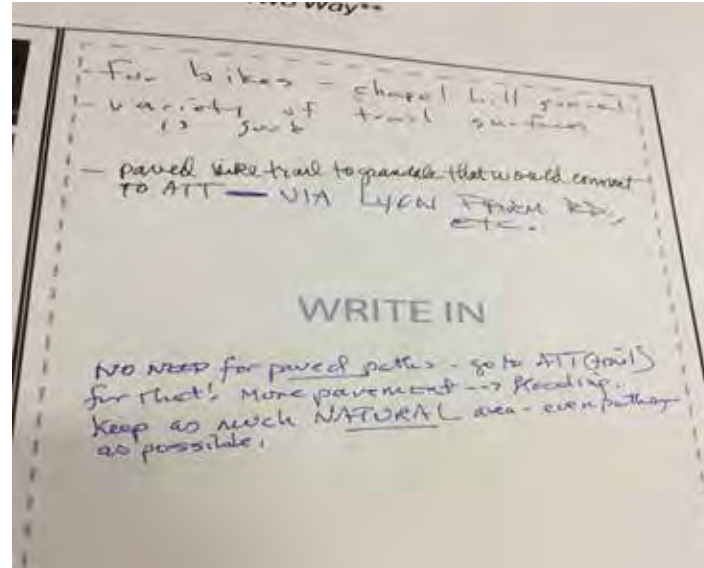
Q17 If you are willing to consider an increase in dues for park upgrades, how much of an increase would be acceptable?

Answered: 232 Skipped: 14



ANSWER CHOICES	RESPONSES	
\$25 increase per year	31.90%	74
\$50 increase per year	25.43%	59
\$100 increase per year	8.19%	19
more than \$100 increase per year	4.31%	10
N/A	30.17%	70
TOTAL		232

COMMUNITY INPUT MEETING #2 SUMMARY



BASIC INFO

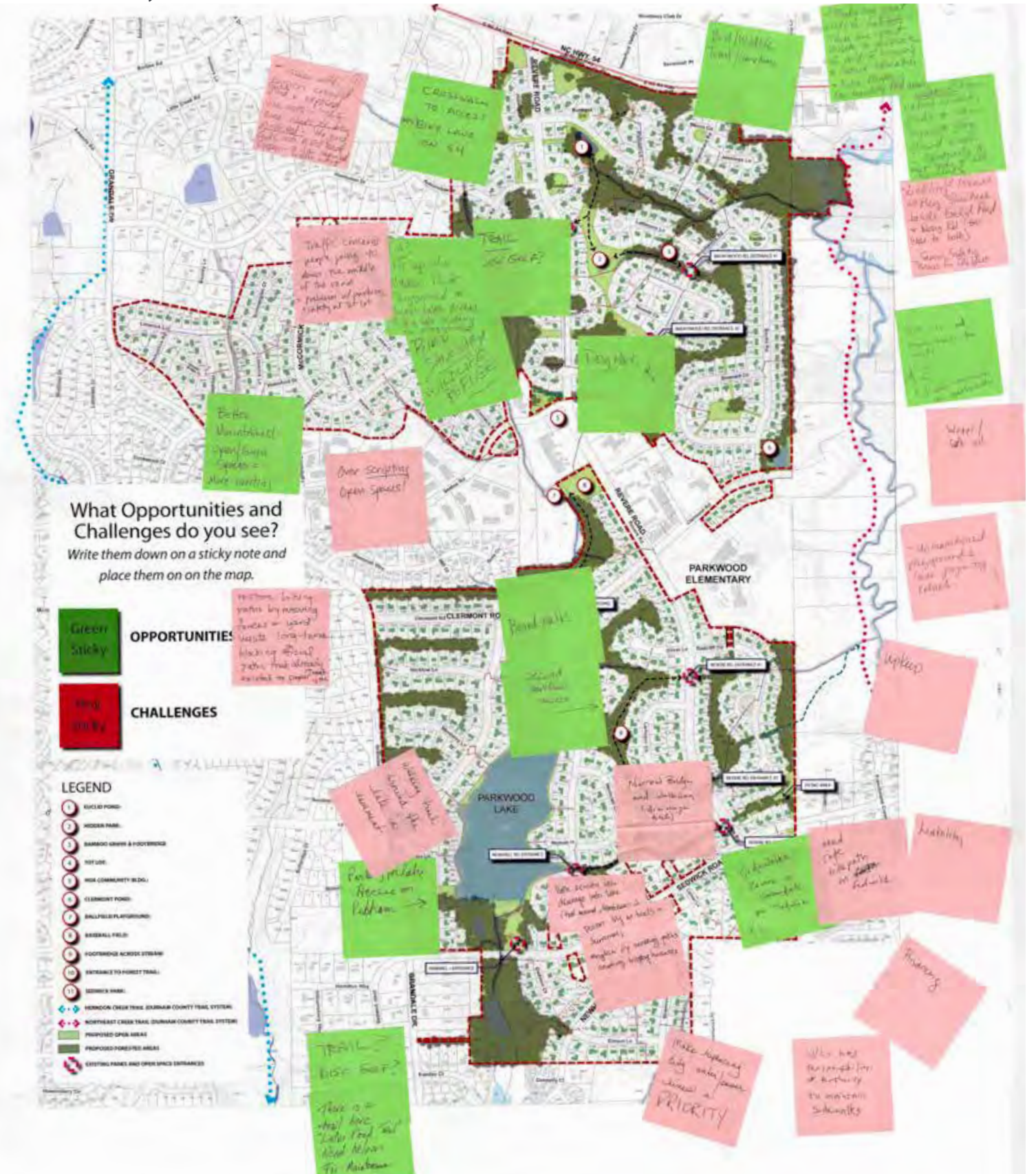
Highly interactive public meetings were held to hear and collect information about existing conditions and desired changes. Residents and visitors that attended the meeting participated in several activities including an assessment of opportunities and challenges, connectivity mapping, and amenities assessments.

Public Meeting 2: December 9, 2017, United Methodist Church

- + Identified gaps in park system
- + Identified needs and new amenities
- + Conceptual layout of master plan
- + 40 attendees

MEETING FINDINGS | CHALLENGES & OPPORTUNITIES

Attendees were asked to indicate where they saw challenges and opportunities in the Parkwood Community.

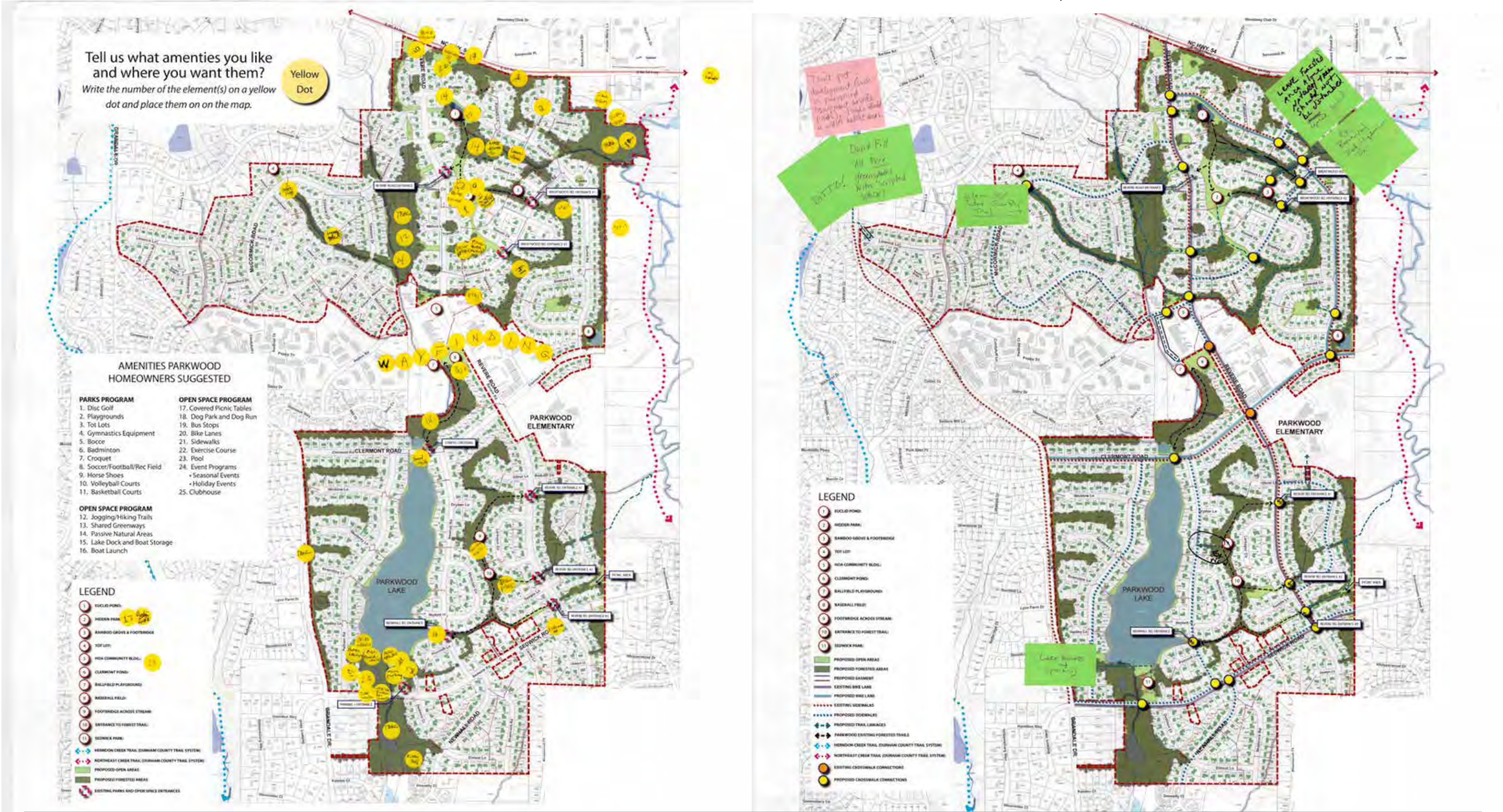


MEETING FINDINGS | AMENITIES MAPPING

Attendees noted where they would like to see various community amenities.

MEETING FINDINGS | FEEDBACK

Participants were able to make notes of topics they felt were important to share and take into consideration for future developments.



MEETING FINDINGS | CONNECTIVITY OPTIONS

This activity encouraged participants to note and rank their preferred modes of mobility.

WHAT APPEALS TO YOU?

VOTING KEY:

BLUE DOT = #1 Type You'd prefer to See Implemented
GREEN DOT = #2 Type You'd prefer to See Implemented
YELLOW DOT = #3 Type You'd prefer to See Implemented

Note: All Types Can Be One-Way or Two Way

TRAILS					<p>For bikers - shared with gravel - variety of trail surfaces - park trail expands to include street to ATT - via Lanes Road, etc.</p> <p>WRITE IN</p> <p>No space for paved path - go to ATT trail for that, more pavement is needed Keep as much as possible - see options as possible.</p>
SIDEWALKS					<p>Reminding, making existing side walk needed at corner/intersection to SS up a side street. There is a park - sidewalk only to be built before building road.</p> <p>Planting in buffer could be nice, if done in enhanced natural area.</p> <p>WRITE IN</p>
BICYCLE & BUS					<p>On existing mode only - on existing mode - on Hwy 58 - a bus</p> <p>WRITE IN</p>
CROSSINGS					<p>Leave the Subway Bike Bike</p> <p>WRITE IN</p>

MEETING FINDINGS | PARK AND OPEN SPACE OPTIONS

Participants were asked to note their most preferred amenities in parks and open spaces throughout the community, using images of other projects as inspiration for thought.

WHAT WOULD YOU LIKE IN YOUR COMMUNITY?

VOTING KEY:

BLUE DOT = #1 Type You'd prefer to See Implemented
GREEN DOT = #2 Type You'd prefer to See Implemented
YELLOW DOT = #3 Type You'd prefer to See Implemented
ORANGE DOT = #4 Type You'd prefer to See Implemented
RED DOT = #5 Type You'd prefer to See Implemented

Connectivity Bldgs/Structures Active Recreation Other Elements Play Elements Passive Areas



MEETING NOTES

Project: **PARKWOOD COMPREHENSIVE PARK PLAN**
Stewart # C17078

Meeting Date: April 10, 2018

Meeting Location: Parkwood HOA Office

Re: Steering Committee Meeting #4

Prepared by: Jennifer Wagner, Stewart

Meeting Attendees:
Steering Committee Members: (9)
Michael Brooks (Chair)
Bill Egan
Derek Treuer
Steven Berkowitz
Jessica Biggs
Pandora Simpson
Jack Jefferson
Heather Crane
David Hamill

Additional Members of the Community: (1)
Leigh Anna Hutchison

Stewart: (2)
Jennifer Wagner, PLA
Stephen M. Faber

1. **Review and Updates (20 min)**
2. Briefly review schedule and public meeting.
3. Public meeting - Saturday afternoon maybe as a change from the last time to get more input?
4. Ask for SC members to volunteer at meeting; Bill Egan - will act as greeter at door to direct people into the room.
5. SC will review the next three chapters of the document. Stewart will send out in the next few days and they will have two weeks to review and add comments, same as last time. **ACTION: STEERING COMMITTEE – due back by Friday, April 27.**
6. Final booklet - Stewart will provide 3 hard copies to the HOA.
7. Question: How does Durham fit into the long-term Durham Comp Plan?
Stewart: Most of Parkwood is in their long-range plan.
8. Partnerships – be sure to include suggestions for groups to partner with in the document. **ACTION: STEWART**

- 1) **New Items (60 min)**
- 2) Discuss boards for public meeting:
 - a) Break maps into north/south for legibility
 - b) Legend - correct and add more detail to trail maps



- c) Swap the notes to "see page x" on the plans
- d) Clearly delineate suggestions and phasing
- e) Stephen: trying to have a spine of trail network north to south
- f) Are streets wide enough to fit a sidewalk in areas where they are shown?
Stephen – yes.
- g) How to deal with fiber optic underground? Need survey to determine during detailed design.
- h) Michael Brooks suggested creating a trail that connects to Meadows of Southpoint Apartments to the west on NC 54. It was not clear what the benefit would be for Parkwood residents to use at the apartments.
- i) Stephen Berkowitz said Brentwood is a road people use to cut through and go too fast - a sidewalk is preferred here.
- j) Phasing - what does the community want first? Priorities?
- k) Make specific suggestions on what areas should be left more pastoral versus designed. It is implied but not specifically called out: "open space - not for development". **ACTION: STEWART**
- l) Decrease maintenance by mowing only twice a year in areas to be graphically shown that would return to more pastoral conditions. **ACTION: STEWART**
- m) Wayfinding? Hierarchy of signage – this is briefly identified in the book; guidelines of how to implement:
 - i) Park or trail sign
 - ii) Directional signage
 - iii) Trail map at kiosk
- n) Be sure to mention in the book: Open space can get grants - pollinator gardens, etc. **ACTION: STEWART**
- o) Discussed park vignettes - scale comparisons, programmatic elements that make sense and guidance on how to approach. This is shown in the document to give an idea of what can fit and makes sense to place in existing park land.
- p) How are we approaching the open space/forest management plan?
 - i) Remove invasive species
 - ii) Dangerous trees only that affect property and can be a hazard
(1) Stephen said there is much benefit to leaving the forest in a condition that allows it to regenerate on its own. Dead trees are important habitats.
 - iii) Improve pond ecosystems by not mowing to the edge of the pond.
Stephen said it is important to restore a riparian edge. This should be done for all streams and waterbodies to help with phytoremediation and to improve the CEC properties of the soil.
- q) Stephen talked through the program elements on the master plan
 - i) Provide opportunities for parking throughout
 - ii) Euclid Pond - enhance playground
 - iii) Disc golf throughout community? Not identified by the community as a large desire but was mentioned at the meeting and the community has the space for it.
 - iv) Activate the green circles in front of homes with tables, trash cans, low impact activities like croquet, horse shoes, etc.
 - v) Cohesive theme to the parks; aesthetics, plant material





- vi) Use the baseball field as a multi-use field; Parkwood has a movable fence they can use to make smaller - Cleremont Pond - add parallel parking, grills, trail around pond
- vii) Pedestrian crossing at north end of pond; possible one-sided parallel parking to slow traffic and provide access
- viii) Boat launch; covered canoe storage; north end of lake- on the west side - would this clutter the view? This is the Parkwood "money shot"; careful about the views; get rid of the idea of parallel parking because it will block views
- ix) Boat launch at southwest corner of lake - better area for a Park with ample parking
- x) Stephen mentioned trailhead parking at the southeast corner of the lake where Newhall road trails exit? Double-check what can fit.
- xi) Stewart to include parking areas around the neighborhood on the map.
ACTION: STEWART
- xii) Tot lot as an example on south side of neighborhood to provide balance to amenities
- xiii) Stephen mentioned parking at Sedwick Park will increase per availability and needs.
- xiv) Steering Committee discussed a sidewalk connection to the farmer's market but realized it seemed less likely considering they have no control of property not under their purview
- xv) Highlight where amenities will be balanced in the community
- xvi) Different colors for different elements? Or new park versus existing?
Stewart to consider graphic adjustments. **ACTION: STEWART**
- xvii) Increase graphic highlights to the entire trail system
- xviii) District consolidation - helps with phasing; spread the opportunity; maybe break down only for phasing and implementation
- xix) Great idea for "state park style" of signage and wayfinding to support the trail system to connect Parkwood
- xx) Brand and designate trails with colors, materials, consistency.

3) Discuss Next Steps (10 min)

- a) Stewart will send out the next three chapters of the document (chapters 4-6) for the Steering Committee to review. **ACTION: STEWART**
- b) Stewart will revise the boards, based upon comments, for the public meeting.
ACTION: STEWART
- c) Stewart will schedule the final public meeting to present the boards. **ACTION: STEWART**

The outline above is the writer's understandings of the major topics and conclusions of the meeting.

Signed:

Jennifer Wagner, PLA
Stewart

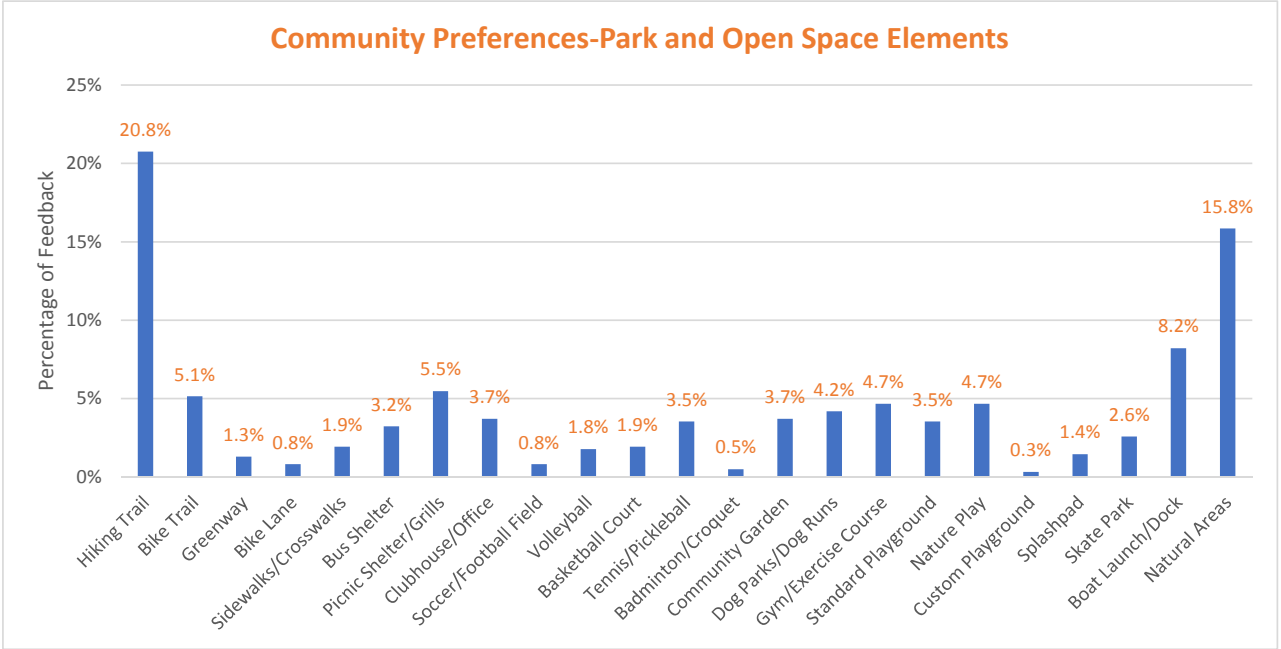
3

Cc: Meeting attendees

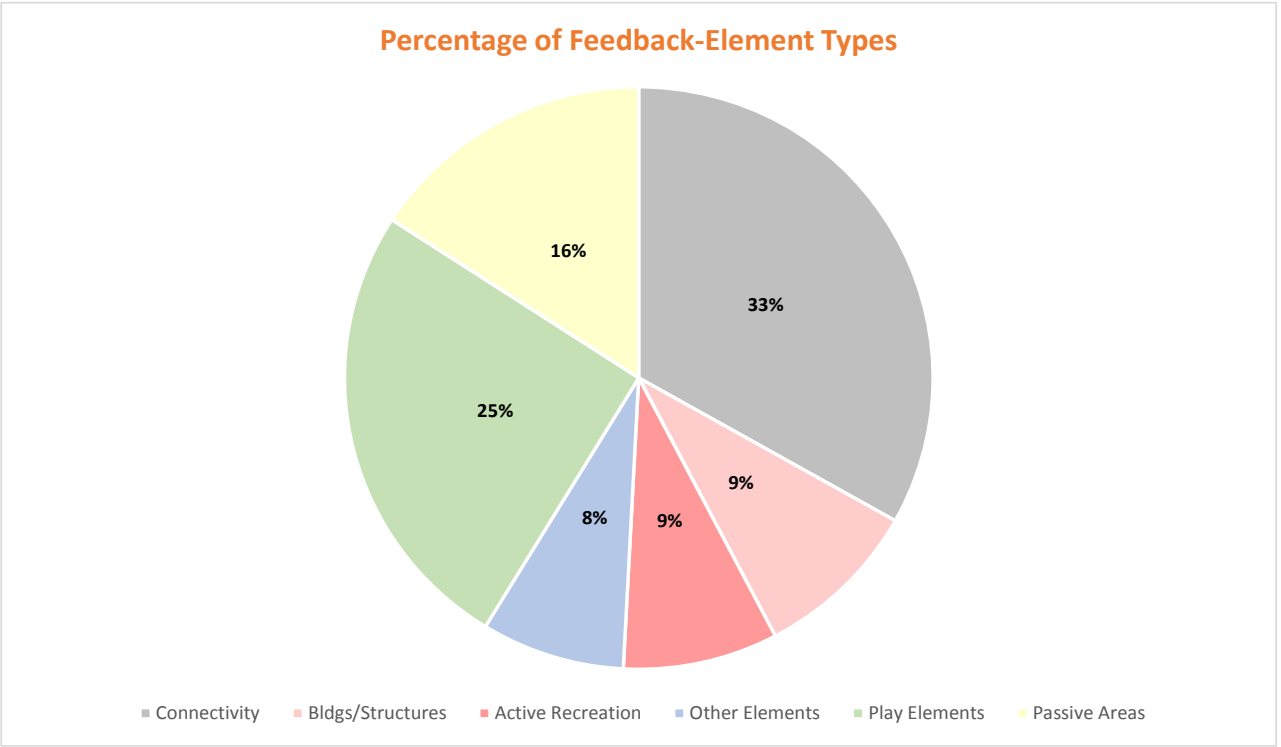
PUBLIC MEETING RESPONSES - PARK ELEMENTS BOARDS

MEETING DATE: 12/09/2017

Location	No. of Comment	% Liked
Hiking Trail	25.8	20.8%
Bike Trail	6.4	5.1%
Greenway	1.6	1.3%
Bike Lane	1	0.8%
Sidewalks/Crosswalks	2.4	1.9%
Bus Shelter	4	3.2%
Picnic Shelter/Grills	6.8	5.5%
Clubhouse/Office	4.6	3.7%
Soccer/Football Field	1	0.8%
Volleyball	2.2	1.8%
Basketball Court	2.4	1.9%
Tennis/Pickleball	4.4	3.5%
Badminton/Croquet	0.6	0.5%
Community Garden	4.6	3.7%
Dog Parks/Dog Runs	5.2	4.2%
Gym/Exercise Course	5.8	4.7%
Standard Playground	4.4	3.5%
Nature Play	5.8	4.7%
Custom Playground	0.4	0.3%
Splashpad	1.8	1.4%
Skate Park	3.2	2.6%
Boat Launch/Dock	10.2	8.2%
Natural Areas	19.7	15.8%
Total	124.3	100%



Connectivity	41.2	33.146%
Bldgs/Structures	11.4	9.171%
Active Recreation	10.6	8.528%
Other Elements	9.8	7.884%
Play Elements	31.6	25.422%
Passive Areas	19.7	15.849%
Total	124.3	100%



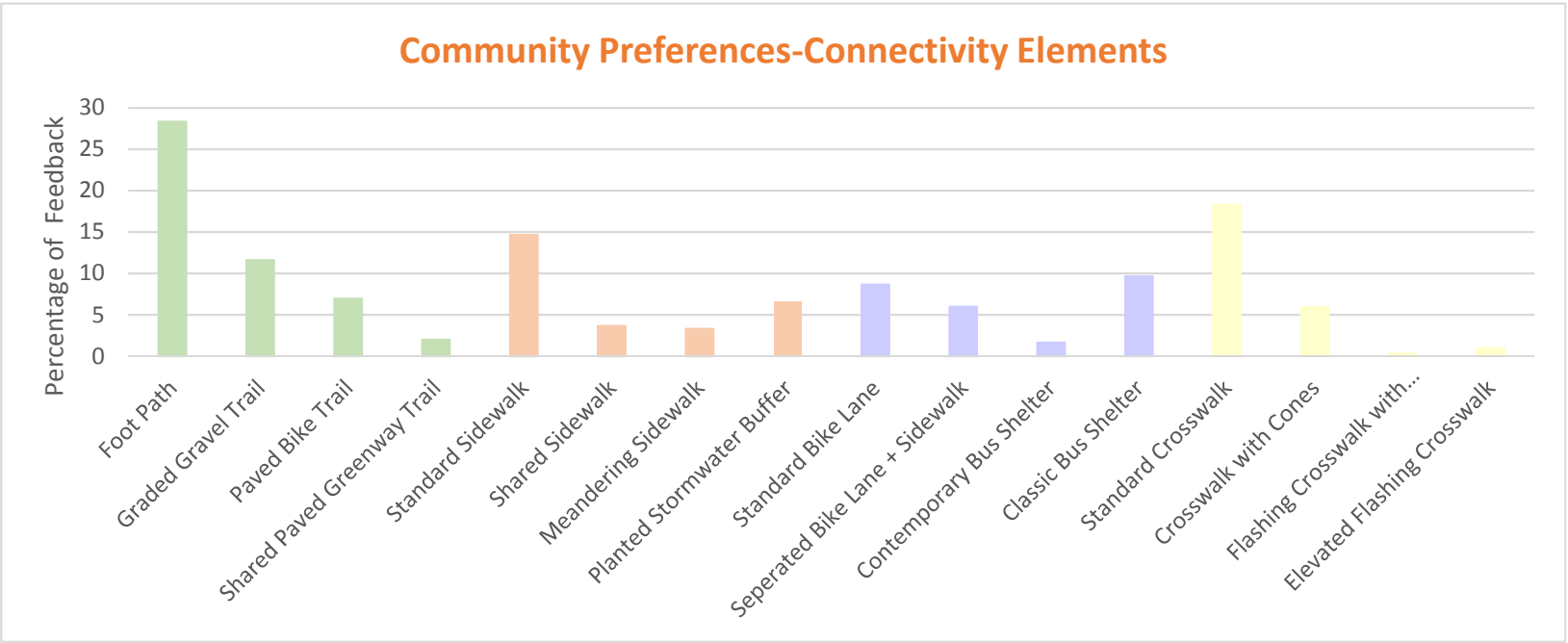
APPENDIX
COMMUNITY INPUT MEETING #2 FINDINGS



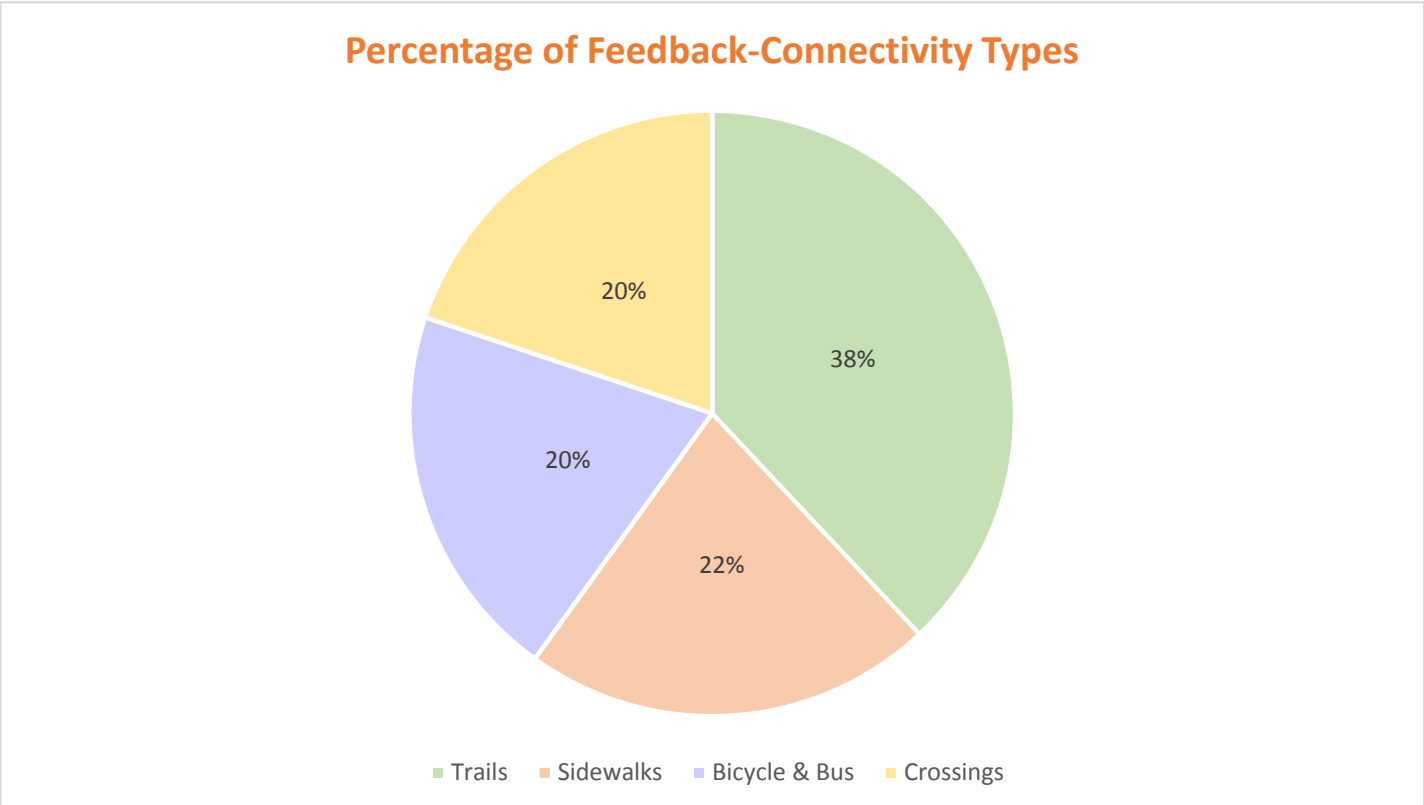
PUBLIC MEETING RESPONSES - CONNECTIVITY ELEMENTS BOARDS

MEETING DATE: 12/09/2017

Location	No. of Comment	% Liked
Foot Path	28.32	22.00466
Graded Gravel Trail	11.61	9.020979
Paved Bike Trail	6.98	5.423465
Shared Paved Greenway Trail	2	1.554002
Standard Sidewalk	14.66	11.39083
Shared Sidewalk	3.66	2.843823
Meandering Sidewalk	3.32	2.579643
Planted Stormwater Buffer	6.63	5.151515
Standard Bike Lane	8.66	6.728827
Seperated Bike Lane + Sidewalk	5.99	4.654235
Contemporary Bus Shelter	1.66	1.289821
Classic Bus Shelter	9.66	7.505828
Standard Crosswalk	18.3	14.21911
Crosswalk with Cones	5.92	4.599845
Flashing Crosswalk with Median	0.33	0.25641
Elevated Flashing Crosswalk	1	0.777001
Total	128.7	100



Trails	48.91	38.00311
Sidewalks	28.27	21.96581
Bicycle & Bus	25.97	20.17871
Crossings	25.55	19.85237
Total	128.7	100



APPENDIX

COMMUNITY INPUT MEETING #3 SUMMARY

BASIC INFO

The final community meeting included over thirty attendees. They were presented with information on the master plan proposal including the four main intervention categories: increased parking opportunities, improved or new park and playground spaces with additional open spaces for community use, improved pedestrian safety through street recommendations, and connectivity through a trail network.

Public Meeting 3: May 12, 2018, Parkwood Church

- + Finalized program for master plan
- + Received feedback on priorities and phasing of programming
- + Discussed financial costs, budgetary needs, and grant opportunities
- + Over 30 attendees



MEETING ATTENDANCE SHEET

May 12

Sign In - Parkwood Parks Planning Mtg

1	Bob Mertz
2	Jack Jefferson
3	Diane Wild
4	Michelle Conner
5	Ray Dean
✓ 6	Marie Dean (BOB, District #8)
7	Steven Berkowitz
8	Rev Ben King CUL
9	RANDAL HARTMAN
10	Colleen Huthrock
11	Kelley Grogan
12	Gretchen Aycock
✓ 13	Jenna Meenan
14	HANNAH CRANE
15	Tracy S. Feldman tracy.feldman@yahoosm.com (internist/psychiatrist)
16	Joyce Odom jodom@mindspring.com
17	CHRIS CHETNEY
18	Lucy A. Hatcher
19	Jessica Biggs
20	Robert Proffitt
21	Brenda Anne Wiggins
22	LOIS F. OUVIERI-ROBERT
23	MARY PRICE
24	CHRIS KUSTER
✓ 25	HANNAH HILES (BO PRESIDENT)
26	JAMES BEIDLER (AWESOME DAD)
27	Lepore Brown
28	GUELYN HAMILTON
29	RICHARD EVERT
30	DANN DAMPER
31	Billy Winklers (Parkwood Village)
32	Devin Chen
33	Eric EGAN
34	Heather Crane Committee Member

MEETING FINDINGS | PARKING RECOMMENDATIONS

Attendees were asked to share their thoughts about recommended parking locations.



MEETING FINDINGS | PARKS & OPEN SPACE RECOMMENDATIONS

Attendees noted their thoughts about the proposed plan of parks and open spaces.



MEETING FINDINGS | STREET & SAFETY IMPROVEMENTS

Residents provided feedback on the location for sidewalk proposals and recommendations for improved pedestrian safety.



MEETING FINDINGS | TRAIL NETWORK & CONNECTIVITY RECOMMENDATIONS

Residents provided feedback proposed trail networks and walking/biking paths located throughout the community.



APPENDIX

PLAYGROUNDS SURVEY

* Conducted prior to master planning process

2016 Playgrounds Survey Introduction

Goals

The primary goal of this survey was to determine Parkwood Homeowners’ opinions of the playgrounds. We sought to learn which of the playgrounds homeowners found most valuable to the Parkwood neighborhood, as well as what issues they saw with any of the playgrounds. Data obtained from this survey will aid the Playgrounds Committee in budgeting decisions, and will help all playgrounds better serve the community at large via playground-specific improvements.

Responses and Demographics

A total of 65 responses were received over the 6 week period that the survey was open. Homeowners were first given the option to complete the survey online using Google Forms; later, paper copies of the survey were issued to the 1,000 homes in Parkwood using the monthly newsletter, Inside Out.

Nearly a quarter of those surveyed reported having no children in their family. The majority of those surveyed reported having 2 children in their household. 61% of households with children reported their youngest child being under the age of 2, with 39% reporting that their oldest child being between the ages of 6-9.

Results

Our demographic results highlight the importance of not only having a play area which is specifically for very young children, but to also allow for playgrounds which can be accommodating for families who have children of widely varied play abilities and skills. Residents also expressed an interest in recreational spaces which were not specifically for children, but which could be enjoyed by adults by themselves.

Residents prioritized which playgrounds they saw as adding the most value to Parkwood. The overwhelming majority of respondents saw Sedwick as having the most value, with Tot Lot in second place, Hidden Park in third place, and the Ball Field in fourth place.

Overall Recommendations

Individual recommendations for each playground can be seen on the following pages. Overall,

1. It is recommended that even though Sedwick is cited as the most valuable park, Tot Lot be given the most immediate attention as it was the second most popular playground location but which had the most issues as cited by respondents.
2. It is recommended that Hidden Park have a larger age-scope and feature equipment that is suitable for play beyond children. Many homeowners cited that they either did not realize certain play spaces existed, how to access them, or if they were open to Parkwood residents -- Hidden Park was cited as one of the most “unknown” playgrounds in the survey. A second survey launched in the future should be completed to find out what additional equipment the community would most enjoy using (eg, gymnastics equipment, volleyball, bocce, etc).

3. It is recommended that the board and playgrounds committee move forward with plans for the Euclid Pond Play area, in an attempt to solve the accessibility issues at the Hidden Park, as well as to continue the development of more wide-use recreational spaces for the entire community.
4. It is recommended that the playgrounds committee and the HOA work to publicize the parks more heavily. Parkwood should maintain an Amenities page on the website complete with photos and descriptions of all playgrounds. Additionally, a new Google Map¹ be used to replace the existing website map, which is not very user-friendly. Finally, a yearly edition of InsideOUT should feature a printed map of the Parkwood playgrounds for resident reference, assuming this is not already occurring.

¹ goo.gl/fmyhxxh

Sedwick Playground

Recommendations

- 1. Remove rope barriers surrounding the parking lot, as they are difficult to navigate over and around (especially for users in wheelchairs, those with strollers, and anyone with mobility issues)
- 2. Add more of the same equipment -- more slides, more swings -- to allow for larger groups of children at play
- 3. Add additional equipment specific for small children to allow for more play accessibility
- 4. Provide more seating options for care givers, including picnic tables, benches, and bench swings
- 5. Provide additional trash cans

Survey Results

Visitor Frequency

Homeowners reported visiting the playground once a month (33%), less than once a month (28%), weekly (13%), daily (3%), and never (22%).

Equipment

59% of residents reported being either very satisfied or very dissatisfied with the playground equipment, giving it an average score of 3 out of 5.

Parking and Accessibility

Parking and Accessibility were rated by residents as being mostly to very satisfactory.

However in the free response section, many residents commented on the difficulty of navigating out of the parking lot and into the playgrounds. They cited the rope barriers around the parking lot as being a major hinderance to those with strollers or in wheelchairs, as well as the elderly. No free form comments cited not knowing where the playground was, or that it existed.

Safety

Overall, residents did not report any issues with the safety at Sedwick, with the majority of respondents tied between giving it a 3 or 4 out of 5.



Tot Lot

Recommendations

- 1. Improve landscaping and soil grade issues
- 2. Build pathway from road to park
- 3. Install new mulching, barriers, and sod
- 4. Install all new playground equipment with multiple swings and toddler-friendly equipment
- 5. Install shade canopy over new seating area
- 6. Add additional non-play equipment, including benches, a picnic table, and swing replacement

Survey Results

Visitor Frequency

More than half of respondents reported never visiting the Tot Lot (53%). 32% reported visiting it less than once a month, with 10% visiting about once a month.

Equipment

The equipment is largely seen as unsatisfactory by Parkwood residents. 39% of respondents gave it a score of 2 out of 5, and 26% of respondents gave it a 3 out of 5.

In the free form responses, residents cited lack of shade as a motivator for not visiting the park (resulting in equipment that is too hot for small children) and that the existing equipment is unimpressive.

Layout

The majority of respondents found the layout, landscaping, and size of Tot Lot to be unsatisfactory, with 31% giving it a 2 out of 5 and 27% giving it a 1 out of 5.

This is likely due to Tot Lot's extensive drainage issues (as seen in the free form comments) as well as the inherently unsafe landscaping problems found in the back of the playground (overgrown foliage, poison ivy, throned plants, etc). Further comments from respondents show that residents largely avoid Tot Lot because of its mud issues and lack of mulch.

Parking and Accessibility

Parking and Accessibility are largely seen as unsatisfactory by Parkwood residents. 27% rated it a 1 out of 5; 16% rated it a 2 out of 5; and 29% rated it a 3 out of 5.



Tot Lot has no parking lot, and instead requires residents to use street parking on a road that is both narrow as well as often used by drivers who go over the speed limit. Six free form comments cited not knowing where the playground was, or that it existed.

Safety

Overall, respondents find the safety at Tot Lot to be satisfactory, with 37% of survey takers giving it a 5 out of 5. However, more than a quarter (27%) only gave it a 3 out of 5.

It is possible that the majority of safety issues lie in the landscaping and layout problems previously cited by residents, although one free form comment specifically noted that the plastic play equipment gets too hot for small children (see Recommendation 5).

Ball Field Playground

Recommendations

- 1. Review ownership of the Ball Field Playground and consider options for reclaiming the space

Survey Results

Visitor Frequency

The majority of homeowners (72%) reported never visiting the Ball Field Playground. 21% of homeowners reported visiting it less than once a month.

In the free form comment section, multiple reasons were given for this lack of visitation, including displeasure with the existing equipment; not being involved with any team sports and therefor never visiting the playground; not realizing it’s accessible for Parkwood use as opposed to use by the Mosque; and not realizing it existed.

Equipment

The equipment at Ball Field Playground was rated vary unfavorably, with 35% of respondents giving it a 1 out of 5; 30% a 2 out of 5; and 20% a 3 out of 5.

In the free form comments section, the equipment was consistently cited as a major deterrent for visiting this playground.

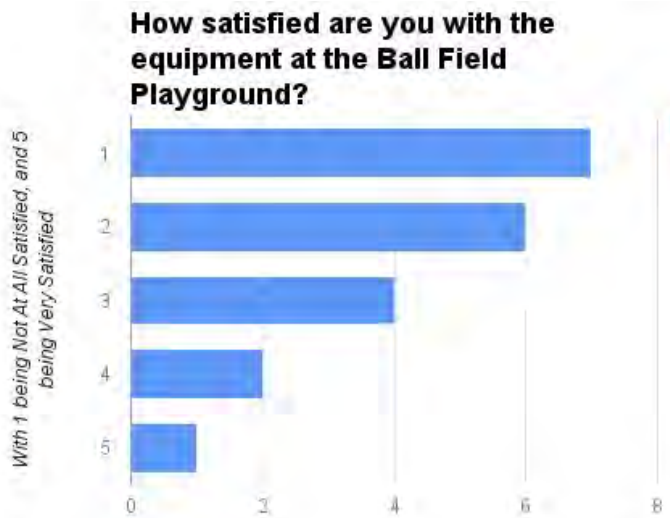
Parking and Accessibility

Parking and Accessibility were not seen as an issue, with the majority of respondents (30%) giving it a 4 out of 5.

In the free form comments section, 14 people cited not knowing where the playground was, or that it existed. The Ball Field Playground also had many respondents citing that they didn’t visit it because they “don’t play baseball/softball/sports,” suggesting that they didn’t even realize a playground was located there.

Safety

Responses were divided over the safety at this playground. 11% gave it a 1 out of 5; 26% a 2 out of 5; and 21% each giving it a 3 out of 5, as well as 4 out of 5, and 5 out of 5.



Hidden Park

Recommendations

- 1. Create adult-oriented play spaces with new equipment and activities
- 2. Improve signage of the Revere Rd and Euclid Pond entrances to the park
- 3. Re-mulch playground area
- 4. Increase visibility of walking trails to access the park
- 5. Move forward with plans for Euclid Pond Recreational Area to solve accessibility issues

Survey Results

Visitor Frequency

59% of respondents never visit Hidden Park; 24% visit it less than once a month; 8% visit it about once a month; and 6% visit it weekly.



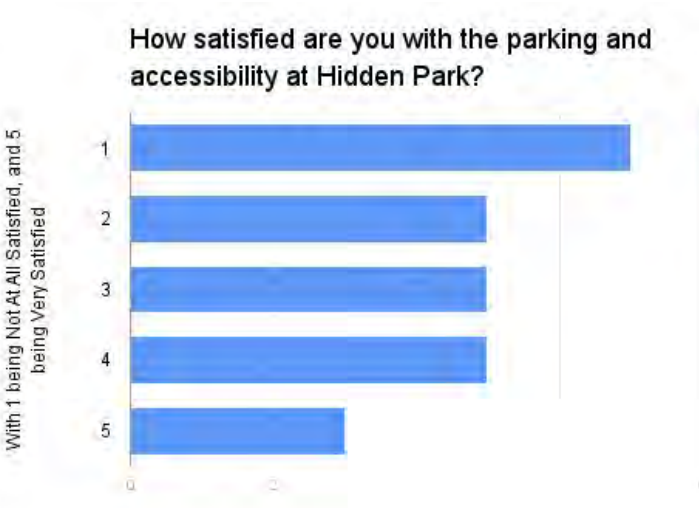
Equipment

The equipment at is largely seen as unsatisfactory. 35% of respondents give it a 3 out of 5; 27% give it a 1 out of 5; and 23% give it a 2 out of 5.

In the free form comments, residents cited having visiting the park once and never feeling the need to go back, giving unsatisfactory equipment as the primary reason.

Parking and Accessibility

Parking and Accessibility are seen as mostly unsatisfactory, with 28% giving it a 1 out of 5; 20% each giving it a 2, 3, and 4 out of 5; and 12% giving it a 5 out of 5.



Safety

42% of respondents give the safety at Hidden Park a 3 out of 5; 31% give it a 5 out of 5.

APPENDIX
STEERING COMMITTEE MASTER PLAN DOCUMENT FEEDBACK

Source	Page	Section/Title/Paragraph	Corrections	Status	Responsible	Notes
Old Comments						
Steering Comm March 2018			Typical home prices ranges were given for Audubon and Lake Park. Would it be best to add the typical home price ranges for the other neighborhoods mentioned - Lakehurst, Meadows, the Ridges, etc.?	Completed. No Change	Stephen	Is this something we want to add? If so, where was other data on home prices sourced? Contextual Home Prices are not really relevant at this stage of discussion
Steering Comm March 2018			2nd paragraph mentions "two ponds". Does the forebay (formerly known as the Lotus Pond) which is north of the lake not count as a pond?	Completed. No Change	Stephen	Do we want to add Lotus Pond to pond count? Not sure where this is being described
Steering Comm March 2018			Where did the information under Property Data come from? I ask because we often say "560 acres" when we publish about Parkwood's size. If the Property Data numbers are more accurate, then we'll use those instead in future copy about Parkwood.	Completed. No Change	Stephen	This is a question for Stephen. This came from our scaling of the basemap in CAD and doing area take-offs. A more precise number could be derived from and actually survey of the property boundaries.
Steering Comm March 2018			Property data is sort of a mess and confusing.	Completed. No Change	Stephen	I'm not sure what this is referring to exactly, but I think it was resolved in the revision process. I'm not either. Respondent needs to be more clear.
Steering Comm March 2018	Page 17		Should the results of the footpath/trails desired be listed here like they are for bike paths and sidewalks?	Completed. No Change	Stephen	Do we want this information organized in this way? Not sure what they are asking. This is just a documentation of existing trail locations, not proposed.
Steering Comm March 2018			I absolutely Cannot read the text labels on the elevation maps. I think that you don't need them. I think you will be fine just offering a key explaining what colors are high and what colors are low, but I have a printed copy of this and, even though it was printed in color on a very nice printer, I absolutely cannot read those numbers. People will print this document and they will not always have printing press quality printers and magnifying glasses.	Completed	Stephen	How do you want to approach? People need to make sure they are printing at the correct size. That would be my first response. Second is that I will make a large key to read.
Steering Comm March 2018	Page 25		There's two private pools in Parkwood. Where's the other one?	Completed. No Change	Stephen	Is there only one pool? Not sure. Need to be more clear.
Steering Comm March 2018			I also feel mentioning the age of the pools is important.	Completed. No Change	Stephen	Do we know this information? Respondent has to provide more information.
Steering Comm March 2018			Elementary: I think it is worth pointing out that there are playgrounds on the school, but by DPS policy, those are closed to the community (this is not true for Wake County)	Completed	Stephen	Do you want to mention this? I have mentioned this but made it more clear.
Steering Comm March 2018			Aren't the apartments listed condominiums?	Completed. No Change	Stephen	Is this an "apartment community" or condominiums? Highlighted pink in document on page 35. Not sure. Could not find where.
Steering Comm March 2018			Size should be listed for all districts for homes, not just some	Completed	Stephen	Do we have this info? Do you want it mentioned? Removed sf numbers. Hard to be certain the informations accuracy.
Steering Comm March 2018	Page 28		What is the size of 7 homes?	Completed	Stephen	Removed sf numbers. Hard to be certain the informations accuracy.
Steering Comm March 2018			Last sentence, can you give 3-5 examples of the types of improvements you mean?	Completed. No Change	Stephen	I assume not as this is an assessment of existing conditions? This is for later chapters
Steering Comm March 2018	ALL		Pie charts and donut charts should have the labels for the areas along with the percentages either on the sections or adjoined with a line. This makes them more useable. This also makes them minimally useable for anyone printing in black and white OR for the 8% of men who are color blind.	Not Started	Stephen	Understood. Would like to help and maybe we can get to this at a later date.
Steering Comm March 2018			Can you add a black layer under the photo then turn down it's opacity a bit? OR fiddle with the font? Hard to read white text over this image.	Completed. No Change	Stephen	Not sure what this is referring to exactly. Mean either.
Steering Comm March 2018	Page 34		Map legend has solid pink circle for existing entrances, but use on the map is a broken circle.	Completed	Virginia	I'm not sure what this is referring to. I don't see this in the doc. Done.
Steering Comm March 2018			suggest running all text through Word grammar check.	Completed		
Steering Comm March 2018			Sometimes the second word of the name is capitalized, sometimes it is not. This should be standardized, as well. Since this is part of the proper name of something, the second word should be capitalized. For example, Parkwood Lake not Parkwood lake.	Completed		
Steering Comm March 2018			The lack of consistency makes the document harder to parse	Completed	Virginia	
Steering Comm March 2018		Table of Contents if Acknowledgements:	Prepared for: please write out "Parkwood Association" or "Parkwood Community" instead of HOA	Completed		I wrote out Parkwood Association in text. The only location where "Parkwood HOA" exists is on the map that includes their building and on the first page that lists the steering committee members.
Steering Comm March 2018			Missing Steven Berkowitz's name	Completed	Virginia	
Steering Comm March 2018			Name correction - Krista Confer	Completed	Virginia	
Steering Comm March 2018			Name correction - Cheryl Thompson	Completed	Virginia	
Steering Comm March 2018	Page 4		Under Goal 5: replace "the HOA" with "Parkwood Association". We try to use "HOA" less often than "Parkwood Association" and "Parkwood Community" because "HOA" can sometimes have an unintended negative influence on the context of a sentence. "Association" and "Community" emphasize that it is not the board solely making these decisions but all of Parkwood.	Completed	Virginia	
Steering Comm March 2018			Is this photo in Parkwood?	Completed	Virginia	Replaced image with Parkwood Photo
Steering Comm March 2018			Preserve the diverse, established community, and natural environment --- This has an extra comma. Unless the idea is preserve the 1)diverse 2)established community 3)natural environment there should NOT be a comma here --- "Preserve the diverse, established community and natural environment" --- b/c you're saying preserve the a)diverse, established community and b)natural environment. I think someone was confused by Oxford commas. This is in multiple places.	Completed	Virginia	
Steering Comm March 2018			Goals bullets should end in a "." as all are sentences	Completed	Virginia	
Steering Comm March 2018	Page 6		Table of contents is hard to read. Much of Parkwood is elderly. We cannot produce a document that a 40-something year old has trouble reading and expect the Parkwood population to be just fine. I suggest using the international standards for color contrast and text size: https://webaim.org/resources/contrastchecker/	Completed		changed font color of chapter titles to orange, and made blue background darker for added contrast
Steering Comm March 2018	Page 7	Now on page 9	Replace "Parkwood Community HOA" with "Parkwood Association" see similar comment for Page 4	Completed	Virginia	
Steering Comm March 2018			somewhere under Process and Approach, I think it should say something like "based on resident feedback". As a resident from the future, it doesn't seem clear WHO picked these plans. Whether it is after 1) Researching and gathering information from residents and local public or at the end more cost effective and timely decisions for implementation based off resident feedback.	Completed	Virginia	
Steering Comm March 2018			Paragraph 2 needs to be edited. It's got a lot of run on sentences. I suggest trying to read it aloud without breathing until you hit a "." to see what I mean.	Completed	Virginia	I think this might have already been resolved.
Steering Comm March 2018			Would add "when" between "qualities" and "compared"	Completed	Virginia	I think this might have already been resolved b/c I cannot find this text.
Steering Comm March 2018			Would add "also" between "while" and "enhancing"	Completed	Virginia	I think this might have already been resolved b/c I cannot find this text.

Steering Comm March 2018			Would add "also" between "while" and "enhancing"	Completed	Virginia	I think this might have already been resolved b/c I cannot find this text.
Steering Comm March 2018			The list in P 3 should be formatted like a list, not inline in a paragraph	Completed	Virginia	I think this might have already been resolved b/c I cannot find this text.
Steering Comm March 2018	Page 8		Line 2 of the paragraph: "Parkwood Home Owners Association" should be "Parkwood Homeowners Association"	Completed	Virginia	I think this might have already been resolved b/c I cannot find this text.
Steering Comm March 2018			Absolutely cannot read the Scope bullets. White is way too fine and small for orange overlay.	Completed	Virginia	This has already been removed from booklet.
Steering Comm March 2018			Scope bullets should end in a "." as all are sentences	Completed	Virginia	This has already been removed from booklet.
Steering Comm March 2018	Page 9		Goal 1: "the" Parkwood homeowners: delete "the"	Completed	Virginia	I think this might have already been resolved b/c I cannot find this text.
Steering Comm March 2018	Page 11		"Downtown Durham" should be "downtown Durham"	Completed	Virginia	
Steering Comm March 2018			Last sentence of paragraph 2, move "is a 14-minute drive east" to end of sentence.	Completed	Virginia	
Steering Comm March 2018			Comma missing after "the City of Durham's drink water"	Completed	Virginia	
Steering Comm March 2018			C should be capitalized in "city of Durham"	Completed	Virginia	
Steering Comm March 2018			can we just say "recreation" instead of "recreating on"? See: https://contentistheweb.com/plain-language-and-the-myth-of-dumbing-it-down/	Completed	Virginia	
Steering Comm March 2018	Page 12		Something is missing at the end of the text on this page - ends in a comma	Completed	Virginia	I think this might have already been resolved b/c I cannot find this text.
Steering Comm March 2018			Would change "adjacent to RDU" to "just southeast of Raleigh-Durham International Airport"	Completed	Virginia	
Steering Comm March 2018			Would add "north of Duke Forest" to test right after "(4,200 acres)"	Completed	Virginia	
Steering Comm March 2018			Southpoint not South Point	Completed	Virginia	
Steering Comm March 2018			Would add "adjacent" to "these neighborhoods" in the line about prices in A and LP	Completed	Virginia	
Steering Comm March 2018			You need an "and" right before A-Huda Academy	Completed	Virginia	
Steering Comm March 2018			Parkwood Baptist Church 1) changed its name 2)is as important as the day care located there Not a big deal, but the sidewalk switches sides of Revere road at Clermont so maybe not say on East side of the road.	Completed	Virginia	I believe the church is now called 4D Church, and I added it to the list of community spaces in this mention.
Steering Comm March 2018	Page 16		Doesn't at least part of Durham's water also come from Falls Lake? (ref. in last paragraph)	Completed	Virginia	changed to "Revere Road has a single sidewalk on the east side of the road until it switches sides at Clermont Road."
Steering Comm March 2018			It's is used when its should be. Grammar check will find this.	Completed	Virginia	changed to "Jordan Lake, a major source for City of Durham's drinking water..." ??
Steering Comm March 2018			3rd paragraph: where "the city" is used meaning "the City of Durham", C should be capitalized. Only use city when talking about a no specific city, not a proper name.	Completed	Virginia	
Steering Comm March 2018			S is missing from end of sidewalks, paragraph two, next to last sentence	Completed	Virginia	
Steering Comm March 2018	Page 18		Flood-prone has no d	Completed	Virginia	
Steering Comm March 2018			missing comma after dam	Completed	Virginia	
Steering Comm March 2018			missing comma after be met	Completed	Virginia	
Steering Comm March 2018	Page 19		Paragraph one, add comma to last sentence before, "although the public"	Completed	Virginia	
Steering Comm March 2018			First sentence of streams paragraph: what's an ephemeral stream? Are you defining it or contrasting it with the clause that follows? Unclear.	Completed	Virginia	
Steering Comm March 2018			I see multiple references to "property". Whose? Homeowners will be confused. Think you mean HOA property, but it's not clear.	Completed	Virginia	
Steering Comm March 2018			Well being is one word. (well-being)	Completed	Virginia	
Steering Comm March 2018			Add comma after "animals that live here"	Completed	Virginia	
Steering Comm March 2018	Page 23		Elsewhere the report lists "ballfields". Since there is only one, this should be fixed on all occurrences.	Completed	Virginia	
Steering Comm March 2018			Tot lot I would move sentence about damage to end of paragraph.	Completed	Virginia	
Steering Comm March 2018			Hidden park I would remove last two works of paragraph.	Completed	Virginia	
Steering Comm March 2018	Page 26	Paragraphs on Parkwood Shopping Center & Other Community Elements	First, the owner of the former Parkwood Shopping Center is the Mosque, which is not a tenant. There is also the Mediterranean Deli restaurant, the Triangle Bridge Club, and the Al-Huda academy, a Muslim primary school, in that building. Overall this section may need some rewriting. There are actually 4 religious congregations: The Parkwood Methodist Church, the Jamad Ibad ar Rahman mosque (pls chk my spelling), the Bahai Center (which isnt an event center) and the Baptist Church and its day care. So in effect there are 4 "churches", but only two of them are actually called churches.	Completed	Virginia	
Steering Comm March 2018			I would note the ballfield only has parking on private property	Completed	Virginia	
Steering Comm March 2018			The Baha'i Center is a religious building and NOT an event center.	Completed	Virginia	
Steering Comm March 2018	Page 27		Two story ranch style home? Is that such a thing?	Completed	Virginia	left as is.
Steering Comm March 2018			Suggest standardized use of District 1, District 2, etc. sometimes the word is used and not the number, sometimes the D is not capitalized	Completed	Virginia	
Steering Comm March 2018			D one last sentence, put commas around, "along NC 54"	Completed	Virginia	
Steering Comm March 2018			Add comma after "walk through time"	Completed	Virginia	
Steering Comm March 2018			7, the list in () has extra ":"s	Completed	Virginia	
Steering Comm March 2018			Add comma, paragraph 3, before "but only 4.6"	Completed	Virginia	
Steering Comm March 2018	Page 32		The last sentence on this page should be moved to the top of the next page.	Completed	Virginia	
Steering Comm March 2018	Page 33		I am not sure about the wording of the three bullet points about the national survey. Are you saying that people who responded to the park survey are wealthier and have less people in the house? Bc that's the take home I'm getting... and I don't see how that matters here	Completed	Virginia	I think this was removed already.
Steering Comm March 2018		Table of Contents I:	Please standardize the use of place names. It is confusing to talk about Euclid Street and Euclid Park and Euclid Pond or Euclid Trail etc. and NOT use the second word all the time. To make the plan clearer, the full name of all locations should be used throughout. (See page 17 for example)	In Progress	Virginia	I think I caught these instances, but I need to double check. Ongoing. Let's catch more of this second time around.
Steering Comm March 2018	Page 1		n/a	No Action Required		
Steering Comm March 2018	Page 2		n/a	No Action Required		
Steering Comm March 2018	Page 3		n/a	No Action Required		
Steering Comm March 2018			Agree with previous comment. Would also add there is established research showing that use of any acronym, even those defined in the document, makes the document harder to parse for those with English as a Second Language OR low English literacy.	No Action Required		
Steering Comm March 2018	Page 5		n/a	No Action Required		
Steering Comm March 2018	Page 10		n/a	No Action Required		
Steering Comm March 2018	Page 14		n/a	No Action Required	Virginia	
Steering Comm March 2018	Page 15		n/a	No Action Required	Virginia	
Steering Comm March 2018			How close are the preferences between the differing sidewalk types? Given your sample size, do these preferences fall within a standard deviation of each other?	No Action Required	Virginia	Don't know the answer. Would this affect how we have sidewalk data organized?

Steering Comm March 2018	Page 20		n/a	No Action Required	Virginia	
Steering Comm March 2018	Page 21		Are these trees labeled in real life? / Should they be?	No Action Required	Virginia	
Steering Comm March 2018	Page 22		n/a	No Action Required	Virginia	
Steering Comm March 2018	Page 24		n/a	No Action Required	Virginia	
Steering Comm March 2018	Page 29		I don't know what the point of paragraph one in the 2010 section is.	No Action Required	Virginia	I left as is b/c it provides valuable demographic information.
Steering Comm March 2018	Page 30		What is the take home message of second paragraph?	No Action Required	Virginia	
Steering Comm March 2018	Page 31		n/a	No Action Required	Virginia	

Steering Comm March 2018	Page 35		n/a	No Action Required	Virginia	
Steering Comm March 2018	Page 36		n/a	No Action Required	Virginia	
Steering Comm March 2018	Page 37		n/a	No Action Required	Virginia	
Steering Comm March 2018			What direction is Thomas Brooks Park in? Also, it's not on the map Can we add the new construction to Grandale, north of Lakehurst just south of Barbee Road? I'm not sure what exactly they are building there, but it would be useful to add that the same way Meadows at Southpoint was added.	Completed		Requires revisiting map graphic. Done.
Steering Comm March 2018	Page 13			Completed		Requires revisiting map graphic. Done.
Steering Comm March 2018			Please mention the hill/slope on Sedwick Park. Not sure it is ADA useable as is.	Completed	Virginia	Done.
Steering Comm March 2018			District four says it was built in the 60s, but the label says 1970s	Completed	Virginia	Requires larger edits to original graphics file. Not sure which date is correct. Done.
Steering Comm March 2018			Southeast is one word		Virginia	

New Comments

Steering Comm May 2018	General Comment		In first portion (earlier chapters), hardly any reference to the Parkwood Ballfield and limited discussion about Parkwood elementary School. Both should be discussed more, including potential and issues related to continued and possible expanded use. Probably need to research this more to get the full picture and potential/need fleshed out. This plan needs to strongly support maintaining the viability of the ball field (and Parkwood elementary fields/playgrounds), and opportunities to optimize/enhance use of both.	Completed		The potential for use of the elementary school is discussed on page 29. Add to book: Separate discussions and agreements need to be made by Parkwood Board to establish if it is a viable use of resources that benefits the community beyond the Comprehensive Plans recommendations.
Steering Comm May 2018	Page 10		The "Why" (Page 13 of pdf) doesn't seem quite relevant to our needs for the Plan. Much more than just metrics and improving access. Parks and open space in Parkwood are major aesthetic aspect for Community (which is generally well reflected throughout the report). A significant % of home abut on Parklands. Planning is needed to best balance potential to develop/enhance recreational uses of Parklands, with benefits of maintaining significant % in a natural state.	Completed		The 'why' of park planning needs to correlate as to why it is needed here at Parkwood. VA added: While nationwide trends show general favorability of having access to parks and open space, Parkwood is uniquely situated with existing green space assets distributed throughout the neighborhood, many of which are in close proximity to homes. These spaces can be studied to maximize their access and enhance their use, ultimately putting into balance the portion of developed land and natural landscape. This desired balance speaks to the priorities of Parkwood in creating functional spaces that cater to the sense of community in the neighborhood while remaining mindful of priorities in environmental stewardship.
Steering Comm May 2018	General Comment		The are 2 community pools serving the neighborhood (both private, but open to Parkwood and surrounding area residents). The one near Clermont is the "Parkwood Swim Club" vs the Parkwood Townhouse Pool.	Completed		This mention of Parkwood Swim Club pool is already included in Chapter 6 with the maps of specific areas, making connections to the pool. It is additionally discussed on page 29. Add to book: The Parkwood Townhouse Pool is located x and serves the community residents through a resident membership. This additional available pool allows residents to swim while events may be happening at the Parkwood Swim Club pool. Both pools should continue to be made available to residents for these added benefits.
Steering Comm May 2018	Page 18		Some discussion about annexation by the city is warranted. Parkwood only "joined" the city relatively recently in its "life", and making sure it receives its share of "benefits" from being in the city is sometimes brought into question, do to being so far from the city center. Locating a South Durham Recreation Center in our vicinity was once in the City's long-range recreation plan, but apparently is no longer? Worth further investigation?	Noted		
Steering Comm May 2018	General Comment		Didn't see mention of significant use for fishing in the Clermont, Euclid (more) and especially Parkwood Lake. Dam is also used extensively for fishing, walking, bird (heron and sometimes eagle) watching, and sledding in the winter..	Completed		p. 58, added: " It is recommended to also do an assessment of water quality to ensure any potential consumption of fish from water bodies is safe. Allow those assessments to inform necessary next steps for proper signage and/or remediation."
Steering Comm May 2018	General Comment		State maintains Hwy 54, Sedwick and Grandale.	Noted		
Steering Comm May 2018	page 47		The Tot Lot has Drainage Issues.	Completed		Add site drainage to Tot Lot section. Say in book, We recommend further study through a detailed site design process which will provide the necessary solutions to this identified issue. Added to page 47
Steering Comm May 2018	General Comment		The playgrounds potential/needs should be further detailed, beyond just making sure bedding is sufficient and deteriorated equipment is removed.	Completed		The extent of detail included on this particular park/site is appropriate for a comprehensive master plan. Further detailing of this space would require more extensive design work beyond the scope of this document.
Steering Comm May 2018	General Comment		Further details seem needed surrounding the Parking Additions. What is being proposed where. "Street" parking would appear only feasible along Clermont and not other places without cutting curb and adding parking (which is needed at some places mentioned, including probably at Clermont and the Pond, Tot Lot, Pelham Lake Access area).	Completed		Add in book: We believe roadway widths allow for the possibility of parallel parking on Euclid Road and Clermont Road bordering the park. Increased use of the park through more accessible means could help prioritize any phasing to adding parking at this location.
Steering Comm May 2018	General Comment		Space for any access to east side of Lake from Newhall is not at all clearly there.	Completed		added label of "LAKE ACCESS" to diagram of Sedwick Park. Page 63
Steering Comm May 2018	General Comment		Ideas for the Clermont Lake Access/Crossing could be further detailed. This seems to be key focal area now and potentially in future, though space is also quite limited.	Completed		for a comprehensive master plan. Further detailing of this space would require more extensive design work beyond the scope of this document.
Steering Comm May 2018	General Comment		Rather than identify possibilities for each circle/space, more focused approach would seem to be more likely to get further review and implementation. For example not sure why adding parking along Revere next to the Ballfield is even contemplated. We are and must remain completely dependent on the Mosque to allow parking for the field.	Noted		
			Additional Comments from Steering Committee: Chapters 1 to 3, 2/25/18 PDF			
	Page 11		Jordan Lake: Receives Parkwood's wastewater via Triangle WWTP that discharges into Northeast Creek	Noted		
	Page 23		Jordan Lake is principle drinking water supply for Cary and Morrisville: supplemental water supply for Durham and other towns or water utilities	Completed		Jordan Lake is mentioned as providing water supplies in some capacity (drinking or supplemental) in the text. We are not intending to get that specific on this topic in the document.
	Page 13		Site context: Also to West are multiple newer developed and developing communities. Parkwood community has 2 community pools (see previous comment).	Completed		This has been addressed in the document: "Recent residential and commercial development surrounding Parkwood has been ushered in by the construction of Southpoint Mall, 2.5 miles west."
			Explicitly differentiate ____ acres of forested parklands and ____ acres of regularly maintained common areas.	Noted		This has been addressed as mentioned in previous comments.
						There is a count of acres of each park space in page 43 of document.
	Page 14		History: Parkwood initially to serve employees who both worked in RTP, or those who built RTP.	Completed		This is already mentioned on page 5 of the document: "Parkwood was developed in the early 1960s as new housing for the employees of the then recently conceived Research Triangle Park."
	Page 20		Revere Rd. sidewalk is on the West side of the Road	Completed		
						This has been addressed in booklet: "In 2014, Parkwood petitioned to have the Grandale and Sedwick projects constructed but the petitions were rescinded in early 2015 due to the city reappropriating its funds.

						This has been addressed in booklet: "In 2014, Parkwood petitioned to have the Grandale and Sedwick projects constructed but the petitions were rescinded in early 2015 due to the city reappropriating its funds. These projects could be investigated again to see where they are in priority under the city's construction plans and could be petitioned again as well."
	Page 20		Sidewalk petitions for Sedwick and East Side of Grandale from Sedwick Rd to Lyon Farms Rd. were actually accepted by the City in 2012 and 2013 only to be rescinded despite adhering to the City's petition process in 2015	Completed		I think we need some clarification on what this is pertaining to and why it's relevant.
	Page 21		Do we know who owns the property where the "Special" Cottonwood lies?	Noted		This has been noted in master plan document that further design detail process is recommended to better assess this issue of drainage at the Tot Lot.
	Page 23		Tot Lot drainage issues that need to be addressed (Parks and Lawn Committee developed a grading improvement plan that should be implemented	Completed		

			Mention fishing in Euclid and Emerald Pond Parks; Sedwick Park Dam Use (fishing, walking, bird watching, sledding in winter	Completed		p. 58, added: " It is recommended to also do an assessment of water quality to ensure any potential consumption of fish from water bodies is safe. Allow those assessments to inform necessary next steps for proper signage and/or remediation."
	Page 26		Triangle Bridge Club is a major Shopping Center user.	Noted		Parkwood Office is currently used as a community venue beyond administrative purposes.
			Also should reference multiple uses of Parkwood Community Center (Office)	Completed		This is ongoing once order of pages are solidified.
	Page 27		Make sure Figure/Page references are correct	Noted		I think this has already been corrected.
			Ratcliff (should be Radcliff), first reference	Completed		
			Clarify access by District 6 to SW end of Lake is off of Pelham Rd.	Completed		Addressed on page 31: "As mentioned above, this district shares the north and south public access points to Parkwood Lake on Pelham Road along with Sedwick Park below the lake's dam."
	Page 28		District 7: Sentence with "form a loop, they do not create a common greenspaces" is needs some wordsmithing for clarity	Completed		Revised text for an easier read.
	Page 32		Potential Revenue Generators? Don't understand this	Completed		I can't find this mention in the document.
						Include a definition of "open space" early in the document: Public open space is essentially a multi-purpose green space that is intended for use by the community in multiple capacities pending on the available programmed amenities. Open spaces within this document include playground areas, tot lots, and even some conservation areas to protect trees and plants while still allowing residents access.
	Page 33		"Park and Open Space usage is used widely (re-word?). ...whether they perceive them...(editorial)	Completed		I think this has already been corrected.
	Page 34		Unclear how lots of mowed Open Spaces is a "Constraint"?	Completed		Added: Lots of mowed Open Space, which dries out the soils, does not benefit the existing wildlife, and requires additional maintenance

Source	Page	Section/Title/Paragraph	Corrections	Status	Responsible	Notes
			Second Round of Comments from Steering Committee from 5/4/18 (Chapters 4 to 6)			
Steering Comm May 2018	Page 36		n/a			
Steering Comm May 2018	Page 37		Says Parkwood Festival, I am pretty sure that was the SummerFest?	Completed	Virginia	
Steering Comm May 2018			And, of course, we know the data nd place of the 3rd meeting so that can be added	Completed	Virginia	3rd Public Meeting is Saturday, 5/12/18 Parkwood Church
Steering Comm May 2018	Page 38		n/a	No Action Required	Virginia	
Steering Comm May 2018	Page 39		n/a	No Action Required	Virginia	
Steering Comm May 2018	Page 40		"Parkwood Residents" section says, "More than at third (69%) of respondents..." should be more than two-thirds.	Completed	Virginia	
Steering Comm May 2018			"What we Heard" section: needs period after 2nd sentence in Parking, Lighting, Access, Safety & Funding paras (before closing parenthesis). And a couple of places too.	Completed	Virginia	
Steering Comm May 2018	Page 41		n/a	No Action Required	Virginia	
Steering Comm May 2018	Page 42		n/a	No Action Required	Virginia	
Steering Comm May 2018	Page 43		"Gap Analysis section, 1st bullet point, last sentence, says "A path overgrown with weeds, branches, and has poor drainage..." should say 'with' or "which has" poor drainage.	Completed	Virginia	changed to include "with poor drainage"
Steering Comm May 2018			"Increasing convenience..." section: 2nd line: "increased" should be "increases"	Completed	Virginia	
Steering Comm May 2018	Page 44		"Opportunities" section: 2nd para is alittle screwy, or is it missing something, maybe an "or" after existing?	Completed	Virginia	
Steering Comm May 2018			"Constraints section at bottom: last bullet point, I would suggest it say, "Trails and Open Space access limited and mostly unmarked. Hard for people to find and use."	Completed	Virginia	
Steering Comm May 2018	Page 45		First sentence says "Access is the key factory in access for individuals..."	Completed	Virginia	removed second "in access"
Steering Comm May 2018			Option B: should say Opportunity existS...	Completed	Virginia	
Steering Comm May 2018			"Northern Edge" para, 2nd line, should say "...this is THE southern terminus..."	Completed	Virginia	
Steering Comm May 2018	Page 46		4. Dam Area: 2nd line: considerations is there twice.	Completed	Virginia	Removed second "Considerations."
Steering Comm May 2018			8. Sedwick Park: possible idea: expand parking area to full width of park, by moving basketball court further north (or adding a second court): the basketball area sees very consistent use, and even the expanded parking lot is still limited.	Completed	Virginia	We are recommending double load parking to accommodate more cards without taking up the full width of the park streetfront.
Steering Comm May 2018	Page 47		First bullet underneath Ballfield Play Area says "A significant amountS of rust is located..."	Completed	Virginia	
			The last two sentences underneath Play Area surface requirements need some rewording. "Loose-fill should be avoided for playgrounds intended for toddlers. Loose-fill material should be 9" in depth when except when using shredded/recycled rubber but should be avoided on playgrounds intended for toddlers."	Completed	Virginia	
Steering Comm May 2018				Completed	Virginia	
Steering Comm May 2018	Page 48		n/a	No Action Required	Virginia	
Steering Comm May 2018	Page 49		n/a	No Action Required	Virginia	
Steering Comm May 2018	Page 50		n/a	No Action Required	Virginia	
Steering Comm May 2018	Page 51		n/a	No Action Required	Virginia	
Steering Comm May 2018	Page 52		n/a	No Action Required	Virginia	

Steering Comm May 2018	Page 53-54	Parkwood District Organization section (and also on p. 19): as discussed in last Steering Cttee meeting, this idea didn't get a very positive response; however, the District makeup is specified in Parkwood Covenants, so effectively cannot be changed. In practice, the only time that districts come into play is for annual elections; otherwise they're mostly ignored. The administrative and organizational overhead to combine districts (even if possible) would seem to risk takin gaway a lot of effort from the main focus of the MP.	Completed	Virginia	This proposal for changing the district boundaries is moved to the phasing chapter (Chapter 7). The zones are determined by consolidating the boundaries of original districts and grouping them into geographical coordinates. These "zones" will be used to help the HOA determine the priorities for each zone and decide how best to phase those interventions.
Steering Comm May 2018	Page 54	2nd sentence of 1st para: "it's" should be "its".	Completed	Virginia	
Steering Comm May 2018		5th sentence of second paragraph: "Figure 6.01 on this page acknowledges a this consolidation."	Completed	Virginia	
Steering Comm May 2018	Page 55	n/a	No Action Required	Virginia	
Steering Comm May 2018	Page 56	n/a	No Action Required	Virginia	
Steering Comm May 2018	Page 57	n/a	No Action Required	Virginia	
Steering Comm May 2018	Page 58	Second sentence under Trails and Open Space "Parkwood is has a legacy system in place that in many ways has been largely forgotten or is unknown by the Parkwood Community as a whole.	Completed	Virginia	
Steering Comm May 2018	Page 59	1st line of 1st para: another "it's", should be "its" -- probably the commonest error in English.	Completed	Virginia	
Steering Comm May 2018	Page 60	n/a	No Action Required	Virginia	
Steering Comm May 2018	Page 61	n/a	No Action Required	Virginia	
Steering Comm May 2018	Page 61	n/a	No Action Required	Virginia	
Steering Comm May 2018	Page 62	n/a	No Action Required	Virginia	
Steering Comm May 2018	Page 63	n/a	No Action Required	Virginia	
Steering Comm May 2018	Page 64	n/a	No Action Required	Virginia	
Steering Comm May 2018	Page 65	n/a	No Action Required	Virginia	
Steering Comm May 2018	Page 66	n/a	No Action Required	Virginia	

		Steering Committee Edits (Chapters 4 to 6) From Steve Berkowitz 5/9/18			
Steering Comm May 2018	Page 43	Unclear why lots of mowed Open Space is a Constraint?	Completed	Virginia	Added information on how mowing requires additional maintenace, dries out the soils, and does not benefit existing wildlife
Steering Comm May 2018	Page 46	Dam Area: Southwestern Edge (not Eastern)	Completed	Virginia	
Steering Comm May 2018		Pelham is too narrow for street parking. Indented parking would be required here (cut out the curb)	Completed	Virginia	
Steering Comm May 2018		Newhall is likewise too narrow for street parking, and serves the Southeastern (not western) side of the Lake. The size of the "access" here seems really too small to do anything with.	Completed	Virginia	Parking diagram includes 3 potential pull-in parking spaces. I added to the text a potential for pull-in parking pending results from a survey of culverts and outlets on western side of Newhall Road.
Steering Comm May 2018		Parkwood Shopping Center. Explain sensitivity in cooperating with Mosque to use its Parking Lot.	Completed	Virginia	Added: it is our understanding that sensitive shared-use agreements are in place to use parking and land with Shopping Center tenants. This parking is invaluable to the use of the baseball field and should be maintained for continued access to trails and recreation facilities.
Steering Comm May 2018		Tot Lot: Doubt "On-Street" parking is feasible here. Would/should be intended parking - should be room for a few cars.	Completed	Virginia	This is addressed as potential opportunities for parallel or pull-in parking. We are proposing 3 pull-in parking spots at the entry to Tot Lot (NW) on McCormick Road.
Steering Comm May 2018		Emerald Pond. Seems that Parking emphasis would need to be along Clermont.	Completed	Virginia	8 parallel parking places proposed along Clarmont in text and in map.
Steering Comm May 2018	Page 47-48	Ballfield: Score box (not the "Shed") is problematic	Completed	Virginia	
Steering Comm May 2018	Page 54	The "new District 2" I believe is intended to be "the new District <u>3</u> "	Completed	Virginia	These are now referred to as "zones". Zoning is essentially consolidating districts for phasing and maintenance purposes.
Steering Comm May 2018	Page 58	Third Paragraph...is recommended <u>to</u> provide...(editorial)	Completed	Virginia	
Steering Comm May 2018	Page 59	Should give further explanation about the "Invasives" in the woodlands; what they are, extent of problem, and how to address?	Completed	Virginia	On pg 59 we recommend Parkwood to conduct an invasives assessment to aquire specifics on this information.
Steering Comm May 2018		"Crossing Plaza" Explain this further?	Completed	Virginia	Added text about "Crossing Plaza" to page 56 under Sidwalks & Safety Section to elaborate on how this is a high-traffic area and pedestrian may want to cross back and forth between amenities. Materials/markings will designate space for pedestrian traffic, slowing vehicles.
Steering Comm May 2018		(and top of Page 60): Park Lake Loop Options are unclear (and what are really likely to be feasible?).	Completed	Virginia	Added legend to map of Park Loop to distinguish road from sidewalk from bike lane from trail. Green=trail orange=bike loop black=road
Steering Comm May 2018	Page 63	"An Connection" (needs edit?).	Completed	Virginia	
Steering Comm May 2018		Revere and Hwy 54: Community Evens, Both Sides? What? Really feasible/accessible?	Completed	Virginia	Yes, this is elaborated on in text to supplement the diagrammatic images of these specific spaces, allowing for small and larger flexible event spaces.
Steering Comm May 2018					Added text about Haledon Circle Parking is intended to to accommodate the playground area recommended for this area and for the

Steering Comm May 2018			Maps need lots of work (Goodyear Circle and Hidden Park Headings need flipping)	Completed	Virginia	
Steering Comm May 2018			Travis and Braddock are wooded; not good place for new Tot Lot/Picnic Tables. Holmes and Goodyear are currently open, and would be more amenable.	Completed	Virginia	Travis and Braddock have been removed from maps of programmed spaces because they are wooded areas.
Steering Comm May 2018	Page 64		Parkwood Lake East: Is this area really big enough to do anything	Completed	Virginia	It is large enough for the smaller scale proposals recommended for these areas.
Steering Comm May 2018			Radcliff Circle Parking? For what purpose?	Completed	Virginia	2nd tot lot play, same as with Haledon Circle Parking, to accommodate visitors to this play area and nearby recreational spaces.
Steering Comm May 2018			Parking along Revere next to Ballfield does not make sense. Perhaps improve Crepe Myrtles (need trimming) and adding other landscaping here? Also, do not show the homeowner garage encroachment. As discussed, this has been resolved mutually satisfactorily	Completed	Virginia	I edited Ballfield map to remove the garage piece mentioned here, and note location of scoreboard.
Steering Comm May 2018	Page 65		Clermont Pond to the <u>east</u> of Parkwood Lake to the <u>west</u> .	Completed	Virginia	I maps of the different areas to include accurate parking counts reflected in the aerial map done by Stephen with existing and proposed parking counts. Parking is proposed on Clermont, not Euclid.
Steering Comm May 2018			Parking Access for Clermont Pond should be off Clermont, no Euclid	Completed	Virginia	There is ample space to include what we are recommending and there are already 3 public access points to allow for this.
Steering Comm May 2018			Is there feasible access to the Open Space behind Emerald Circle homes?	Completed	Virginia	
Comments Jennifer noted in 5/12/18 meeting						
Comments Jennifer noted from 5/12 meeting	in existing conditions on booklet		Note how much ballfield is used (potentially get numbers from HOA). Paid use by Parkwood Sports Association and Southeast Little League	Noted		double check with Stephen about getting this information. Put placeholder in booklet.
Comments Jennifer noted from 5/12 meeting	page 20		Sidewalk legend of existing and proposed sidewalks needs to be edited.	Completed		
Comments Jennifer noted from 5/12 meeting	diagram page 64		North Lake Park: move parking to the north side of the lake	Completed		
Comments Jennifer noted from 5/12 meeting			Consider placement of dog parks/runs as community members didn't seem as excited as originally thought about these spaces in the community because there is already a dog park approximately 3 miles away.	Noted		Double check with Stephen/Jennifer on this revision. Do we need to reduce the number of dog parks? Remove all together?

Source	Page	Section/Title/Paragraph	Corrections	Status	Responsible	Notes
			Final Round of Comments from Steering Committee from July 5, 2018.			
Steering Comm July 2018	all pages		When referring specifically to the City of Durham, City should be capitalized. "city" is used for non-specific (any City) when you have a bulleted list that is unnumbered (see page 59); there's lots of studies showing that if there is not an obvious order (1,2,3 OR Alphabetical), people assume that the listing order is a ranking. Please review bulleted lists and if items are NOT ranked (most important first), list them alphabetically by first letter used			
Steering Comm July 2018			if there's room for the steward logo on every page, there's room for the Parkwood HOA logo on every page (footer)	Completed	Virginia	reordered by priority or emphasis.
Steering Comm July 2018			there's a lot of comments about parks having more than one name. Please pick one and make sure it's used throughout and on the maps consistently	Noted	Virginia	
Steering Comm July 2018	Page 4		Parkwood homes range in Price from 150K to 250K. I think the 2000 sq ft size is too small to cover the older homes. 2200 would work.	on going	Virginia	
Steering Comm July 2018	Page 4		Last sentencea United Methodist Church, a community pool (note: there is the Townhouse Pool, near the "center" of the community, and the Parkwood Swim Club pool).	Completed	Virginia	Changed it from \$150k-\$300k. 2000 is an estimate.
Steering Comm July 2018	Page 4		3rd line from last in "Parkdood Commuity" paragraph: "A-Huda Academy" should be "Al Huda Academy"	Completed	Virginia	
Steering Comm July 2018	Page 5		First Sentence: new housing for the employees and builders of the then recently	Completed	Virginia	changed to "the recently conceived..."
Steering Comm July 2018	Page5		1940s to 1950s: Last sentence: along with Grandal Drive to the west and Sedwick 1990s to Present: ...regional response teams, and at one time had 20 part-timers, 36 part-time staff, and 150 volunteers. In 2015, the Parkwood VFD merged with Durham County's Fire and Rescue service, and remains an integral part of the Community.	Completed	Virginia	
Steering Comm July 2018	Page 5		1st para: should end with a colon -- i.e., " . . . following vision statement and goals."	Completed	Virginia	
Steering Comm July 2018	Page 10		Why Park Planning: 5th line: planned with the intent of helping	Completed	Virginia	
Steering Comm July 2018	Page 13	they perceive them ...	Completed	Virginia	
Steering Comm July 2018	Page 17		Regional Context: 2nd Paragraph: such as the Research Triangle Park, (3 to 5, not 9 mi. east)	Completed	Virginia	
Steering Comm July 2018			3rd Paragraph: Jordan Lake -- a principle drinking water supply for Cary and Morrisville and supplemental water supply for Durham and other towns or water utilities (it is not a "major" source for Durham's water supply)	Completed	Virginia	
Steering Comm July 2018			Fall's Lake, Raleigh's primary source (not the only source)	Completed	Virginia	
Steering Comm July 2018	Page 19		2nd Paragraph: add to end: and to the Greenwood Shopping Center, which hosts a popular year-round Saturday morning Farmers' Market.	Completed	Virginia	With an existing bike lane along Revere Road and a proposed one on Sedwick, this would give access to the shopping center by bike lane.

Steering Comm July 2018			Sidewalks, 2nd Paragraph. In 2008, Parkwood’s petition to install a sidewalk along Sedwick Road was initial approved by City Council, and Parkwood petitioned in 2014 to add a connecting sidewalk segment on the east side of Grandale. Unfortunately, these petitions were rescinded in early 2015	Completed	Virginia	
Steering Comm July 2018	Page 20					
Steering Comm July 2018	Page 23		Streams and Waterways: Mid-Paragraph: Euclid Pond, at the northeast section of the property	Completed	Virginia	
Steering Comm July 2018	Page 25		‘SPECIMEN TREES’ para: line 7, should be “Durham’s” Finest Trees	Completed	Virginia	
Steering Comm July 2018	Page 27		Last Paragraph: Emphasize that Sedwick Park is the largest and most popular part area in the community	Completed	Virginia	
Steering Comm July 2018	Page 27		Map: Label Revere Rd. Entrance No. 3 (now two 2’s)	Completed	Virginia	
Steering Comm July 2018	Page 27		First line of “PARKS” para: “Euclid Pond Road” should be “Euclid Road”	Completed	Virginia	
Steering Comm July 2018	Page 27		Last line of that para: “surround the lake” should be “surround the pond”	Completed	Virginia	
Steering Comm July 2018	Page 29		Parkwood Elementary School’s ballfield are indeed already being used by the PSA (and possibly SDLL) leagues.	Noted	Virginia	It is our understanding that the school’s play equipment and fields are not openly accessible to Parkwood residents.
Steering Comm July 2018	Page 29		Swimming Pools: ...including a deep end with a diving area (no longer two boards - likely just one will be installed as replacement.	Completed	Virginia	
Steering Comm July 2018	Page 29		Also are shaded seating areas on two sides (not just one).	Completed	Virginia	
Steering Comm July 2018	Page 29		Should show location of the Townhouse Pool on the Figures	Noted	Virginia	
Steering Comm July 2018	Page 29		The intro. Sentence is hard to parse. I would rewrite it.	Completed	Virginia	
Steering Comm July 2018	Page 29		the sentence at the end of Community amenities introduction (many are currently) has grammar problems -- I can’t figure out what you’re trying to say	Completed	Virginia	
Steering Comm July 2018	Page 30		Baseball Playground: Parking for the ballfield requires parking on private property	Completed	Virginia	
Steering Comm July 2018	Page 30		Elementary School ballfields are currently used by the community sports leagues.	Completed	Virginia	
Steering Comm July 2018	Page 30		Library: ...lasted into the 2000s until the county’s Southeast Regional Library Branch was built	Noted	Virginia	
Steering Comm July 2018	Page 31		District 5: ...that were built in the mid to late 1960s	Completed	Virginia	
Steering Comm July 2018	Page 31		Radcliff Circle not Ratcliff Circle	Completed	Virginia	
Steering Comm July 2018	Page 33		A number of the Figure and Page references (here and elsewhere) are incorrect.	Completed	Virginia	Will check this throughout revisions and revisit this at the end of text edits.

Steering Comm July 2018	Page 37		Second line: Not sure what a “decided” Steering Committee is.	Completed	Virginia	Removed "decided"
Steering Comm July 2018	Page 39		Community Feedback: Affirmations: 4th bullet: ...to make the lake more of a recreational space	Completed	Virginia	
Steering Comm July 2018	Page 44		Figure: Herndon Creek Trail not shown.	completed	Virginia	I had to fix the color on the legend to match the map. Herndon Trail exists on the western side of Parkwood, noted in lime green.
Steering Comm July 2018	Page 44		Sidewalk shown on Pelham (not mentioned elsewhere?).	Completed	Virginia	We discuss Parkwood pedestrian path again on page 59.
Steering Comm July 2018	Page 44		Show “potential boat launch, storage, and dock on SW (not SE) side near dam.	Completed	Virginia	Edited map to reflect potential boat launch at SW side (Pelham Rd) of Parkwood Lake and SE side (Newhall).
Steering Comm July 2018	Page 44		Hard to imagine room for parking, or allowance for cut-in for parking at eastern entrance to Parkwook along Sedwick	Noted	Virginia	The suggested parking locations and estimates are based on preliminary assessment of the respective spaces. A more detailed site design will ensure accurate feasibility.
Steering Comm July 2018	Page 45		Euclid Pond write-up: 2nd line: don’t mean parallel parking on Clermont Road (this isn’t near Euclid Pond). 3rd line: wording: “through more accessible might” ...?	Completed	Virginia	Removed "Clermont Road" mention.
Steering Comm July 2018	Page 45		Option A (still under Euclid Pond). Don’t buy that adding to parking here will "greatly reduce the recreation area available on the north bank. This bank currently has the least amount of recreation.	Completed	Virginia	made edits to consider future use of the north bank. "Adding parking to the existing lot at Euclid Pond will reduce the recreation area available for future programming on the north bank of the pond."
Steering Comm July 2018	Page 45		Map: “O” and “N” on the map (or legend) are reversed.	Completed	Virginia	
Steering Comm July 2018	Page 46		“Dam Area”: Should be consistent and call this “Pelham Park”.	Completed	Virginia	changed to "Pelham Park - Dam Area"
Steering Comm July 2018	Page 46		Newhall Road Access. Newhall is 26 feet wide (I measured), but don’t see space for 5-cars along very limited access area this refers to.	Not Started	Virginia	This refers to proposed parking on currently grassy area off of the road adjacent to the lake.
Steering Comm July 2018	Page 46		Tot Lot: Seems like there could be more than 3 Pull-in spaces here (seems like much more frontage than the Newhall road Access area).	Noted	Virginia	Parking estimates account for relative anticipated use as well, thus proposing more parking at the lake (Newhall) than at Tot Lot.
Steering Comm July 2018	Page 46		Emerald Pond Park: Parkwood Swim Pool is private, and shouldn’t be suggested as potential parking area for Emerald Pond Park	Completed	Virginia	This is suggesting parking on Clermont Road up to intersection with Euclid Road. It is not suggesting to park at the pool parking lot.
Steering Comm July 2018	Page 46		ADA Accessible Parking “proposed boat dock should” should likely be the one at “Pelham Park”, only (not the other 2 potential boat dock areas proposed).	Noted	Virginia	
Steering Comm July 2018	Page 47		It’s a bit confusing to have the things done right (sufficient wood fill) listed just like those done wrong (not enough wood fill). Suggest taking the things done well, putting them to the bottom of each mini list, and adding a NOTE: to the line start and using italics. Or something similar. Or dropping the lines w/ enough wood fill.	Completed	Virginia	removed where woodchip depth is adequately deep (euclid Pond & Hidden Park), so that the list reads as only things that need improving.
Steering Comm July 2018	Page 48		Hidden Park: According to information elsewhere, the play surface isn’t currently a problem here, but rusted “S-hooks” are.	Completed	Virginia	This is accurate. Place surface needs to be replaced (it’s not a matter of material depth.)
Steering Comm July 2018	Page 48		Bring captions in line with page 47 -- make sure all the problems notes are summarized here, too. (“fill issues”. “Rusted equipment”)	Completed	Virginia	
Steering Comm July 2018	Page 49		Define what Close Relationship means (you have room)	Completed	Virginia	

Steering Comm July 2018	Page 54		Overlay’s are not synchronized with the underlying map, making locations difficult to truly discern. Hopefully this can be corrected so these maps can be more thoroughly scrutinized (as this is the guts of the Master Plan).	Completed	Virginia	
Steering Comm July 2018	Page 54		E: Hidden Park. Seems like another potential “Frisbee” area.	completed	Virginia	Added frisbee to list of potentil activities on map.
Steering Comm July 2018	Page 54		K: Clermont Pond: Called “Emerald Pond” elsewhere. Keep “Emerald” only, for consistency.	completed	Virginia	
Steering Comm July 2018	Page 54		L: “Adjust” tree canopy (not sure of the meaning)	Completed	Virginia	Maintain tree canopy but clear necessary trees to accommodate trail path.
Steering Comm July 2018	Page 54		M: North Lake Park: Also potential boat launch location? (more likely feasible here than at “O”	Noted	Virginia	Residents expressed desire to keep views to the lake open.
Steering Comm July 2018	Page 57		Open Space and Trail Network: In addition to doing water quality assessment, a “forestry” assessment and management plan should also be recommended, in addition to the “Invasives” Assessment on next page. Should we be doing some pro-active management (other than currently just dealing with trees that succumb to pine-bark beetle destruction on mainly a complaint-driven basis.	Noted	Virginia	
Steering Comm July 2018	Page 58		Figure: It is difficult to read the captioned items, and this is a very important master plan product.	Completed	Virginia	
Steering Comm July 2018	Page 58		Change “Clermont” Pond to Emerald Pond.	Completed	Virginia	
Steering Comm July 2018	Page 58		Any recommendations about safety as per resident comments about poison ivy in shared spaces, making parks unattractive to Copperheads, Black Widows, yellow jackets? These things belong in the woods, but perhaps not the middle of a path... And certainly not on play equipment.	Noted	Virginia	
Steering Comm July 2018	Page 58		What’s riprap? -- term of art, please explain as target for report includes people who won’t know	Completed	Virginia	added an image example and definition.
Steering Comm July 2018	Page 59		Parkwood Lake Loop option: Are the “Advisory Lanes” something that has been done in Durham or elsewhere in NC (likely to get DOT/City to concur with this?).	Noted	Virginia	
Steering Comm July 2018	Page 59	”trial” (not a “trail”) installation could be performed -- seems like a “trial” would be feasible only with the “middle” option (as a one-way conversion would take much more than a trial to institute).	Completed	Virginia	
Steering Comm July 2018	Page 59		Is the Pelham Road proposal to have the Advisory Lane on the Lake Side only? Please clarify (and Newhall to have “Advisory” Lanes on both sides, since parking along Newhall seems to be much less regular than along Pelham.	Completed	Virginia	
Steering Comm July 2018	Page 60		Figure: Difficult to read captioned items.	Completed	Virginia	

Steering Comm July 2018	Page 62		W side of Revere. Note about “Upper” Field, intended to say “remain” open as passive lounging (instead of “create” open ...?).	Completed	Virginia	
Steering Comm July 2018			Hidden Park: Such a wide range of possibilities really feasible (not really easy access): Picnic Shelter, Grills, Bathrooms here don’t seem appropriate. Also unclear about “enhance buffer shade” for playground. Currently there is no shade for playground. Potential disc-golf area here? Soccer field may be feasible in segment closest to Brentwood Rd. entrance to Hidden Park?	Completed	Virginia	Enhance tree buffer. Add shade.
Steering Comm July 2018	Page 69		Trash Receptacles: We have a source for these that’s about \$50.00/can (\$100.00 max, including misc. hardware and support for installation -- volunteer labor typically do the installs).	Completed	Virginia	would you like to change the cost estimate to reflect this amount for trash cans?
Steering Comm July 2018			Can you use a font like Courier on the dollars? One where each number takes up the same amount of space? This will like up the dollars, where the font used varies the space depending on how “fat” the number is.	Completed	Virginia	changed estimate file to Arial font
Steering Comm July 2018	Page 70		Some prioritization of possible financing sources/methods would likely be helpful, if possible to include.	Noted	Virginia	
Steering Comm July 2018	Page 73		Are CDBG grants and USDA Rural Business Enterprise Grants remotely feasible for us to pursue, and likewise the Trust for Public Land?	Noted	Virginia	
Steering Comm July 2018	Page 74		Add category TREES - Remove cut-down trees from trail areas.	Completed	Virginia	
Steering Comm July 2018	Page 74		Plan for replacing aging tree canopy in forested areas.	Completed	Virginia	
Steering Comm July 2018	?		Improvements: Signage on parks and common spaces (where relevant) that ties the neighborhood together (you see this done well in University campuses). Updated Parkwood signs (on Revere Road) would be nice--they are outdated.	Completed	Virginia	Added notes on signage to page 43
Steering Comm July 2018	?		I know significant increases in impervious surfaces aren’t being proposed, but it would be nice to see rain gardens added where possible. Also, native plants added in common spaces would add a lot of curb appeal to the subdivision.	Noted	Virginia	
Steering Comm July 2018	Appendix		on one of the Appendix pages, some of the responses were cut off (but probably already caught this).	Completed	Virginia	

