City of North Charleston Transit Oriented Development (TOD) Opportunities Public Meeting

April 20, 2021



TOD & LCRT

Transit oriented development is a strategy for optimizing development patterns in station areas to support:

- High transit ridership
 - Targeting a high concentration of people and jobs into station areas
- Positive economic impact
 - Catalyzing infill and redevelopment and creating new employment clusters
- Equitable access
 - Improving walk/bike conditions, creating more housing options and supply close to transit and improving access to opportunity













TOD Planning

COMPLETED INPUTS
TO THE TOD PLAN

TOD Market Assessment

Value Capture Toolkit

Affordability Assessment

TOD Placetypes

FINAL ELEMENTS

Station Area Plans

Policy Toolkit

LCRT TOD Plan

ENGAGEMENT ON TOD

Public Workshops (December 2019)

 Allocation of TOD Placetypes to Station Locations

Local Government and Stakeholder Meetings (2020)

Public Meetings (Spring 2021)

Rapid Transit Impact on Real Estate Development



PACE OF DEVELOPMENT

1.1 - 2.0x



DEVELOPMENT SHARE

1.1 - 3.1x



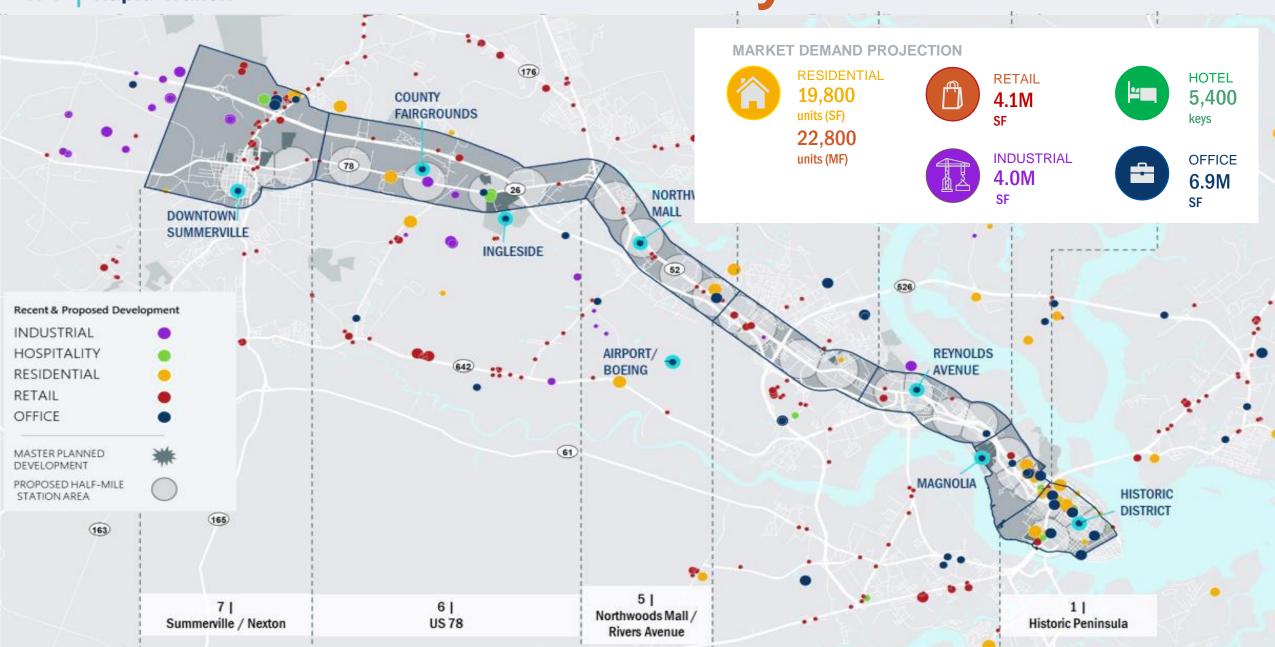
DEVELOPMENT DENSITY

1.3 - 3.5x



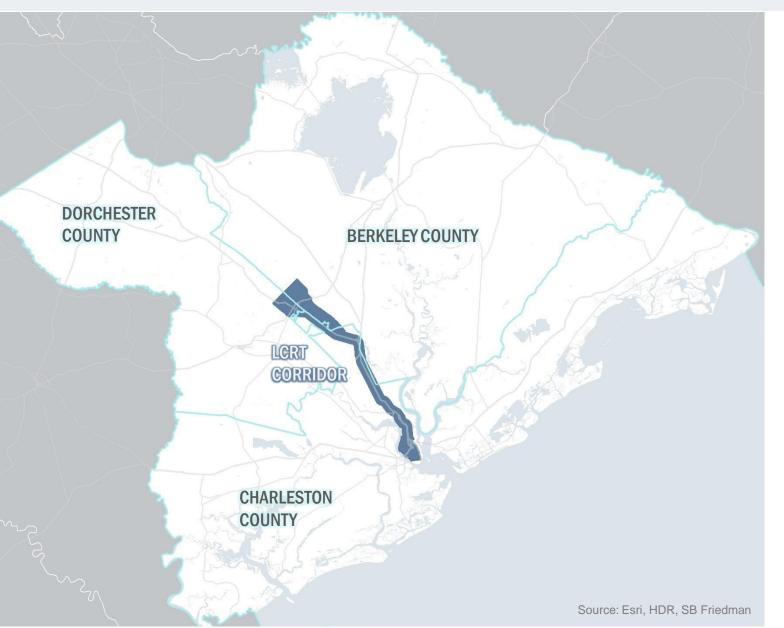
IMPROVED ACCESS CREATES A MULTIPLIER EFFECT

Corridor Market Dynamics



Transit & Affordable Housing

LCRT and TOD work along the Corridor is an opportunity to address the affordability in the region



COST BURDENED BCD HOUSEHOLDS

owners

renters



HOUSING & TRANSPORTATION

Two largest expenditures for most households

25% TO 9%

Decline in transportation costs as a percent of households income when a variety of mobility options are provided to formerly auto-dependent households

Planning Context











COMPREHENSIVE PLAN
Bright Ideas. Bold Action

ADOPTED JUNE 2020

Mixed Use Corridor/Transit Boulevard:

- 4-6 travel lanes
- Landscaped medians; applied access management techniques
- High multi-modal accommodations transit shelters and facilities, sidewalks, bicycle lanes, multi-use path
- · High visibility crosswalks, pedestrian level lighting



Mixed-Use Corridor (MUC)

The Mixed-Use Corridor designation is to provide for commercial, retail, office and higherdensity housing adjacent to principal transportation corridors throughout the City. These areas are intended to promote development of mixed-uses that will enhance access to a wider range of services for nearby neighborhoods. Appropriate uses include office, retail, multi-family and light industry (manufacturing and assembly).

Development within the MU and MUC designations may be intensified within areas identified around transit centers. Intensified development in these areas is referred to as Transit-Oriented Development (TOD).



TOD Placetypes

- Naturally occurring TOD-like patterns already present in the region
- New TOD Typologies build from existing
- Help match market demand, complement existing character, support overall corridor goals



Downtown Charleston

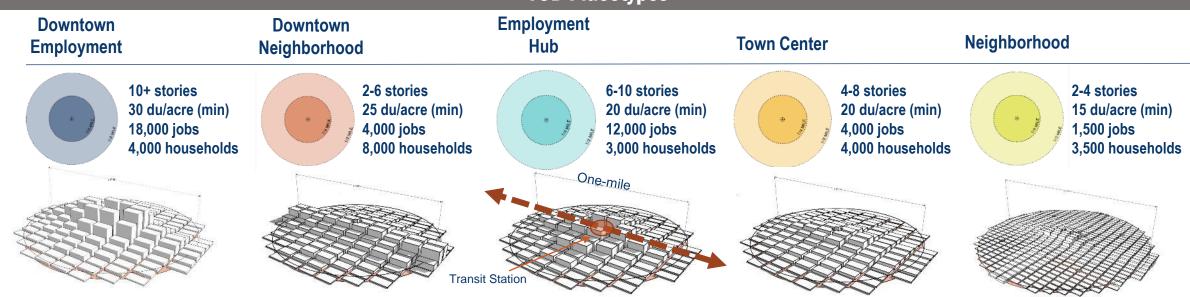


Downtown Summerville



Park Circle

TOD Placetypes



The above diagrams illustrate prototypical building massing and density gradients for different TOD Placetypes

Trends in Redevelopment and Infill

Citadel Mall investors outline Epic plans for Charleston shopping center

BY WARREN L. WISE WWISE@POSTANDCOURIER.COM







TOD Opportunities and Concepts

- Allocation of TOD Placetypes to North Charleston station areas
- Focus on 4 station areas for deeper opportunity assessment
 - Northwoods Mall
 - Remount Road
 - Durant Avenue
 - Shipwatch Square & Reynolds Avenue
- Testing market demand and redevelopment opportunity sites
- Station Area Concepts
 - Testing the program of the TOD Placetype
 - Mix of uses, building heights and long-term redevelopment and infill potential
 - Identifying key design themes
 - Assessing against current land use policies



Participants share their vision for station locations and place types at the North Charleston Transit Center.

North Charleston Corridor-wide TOD Concepts

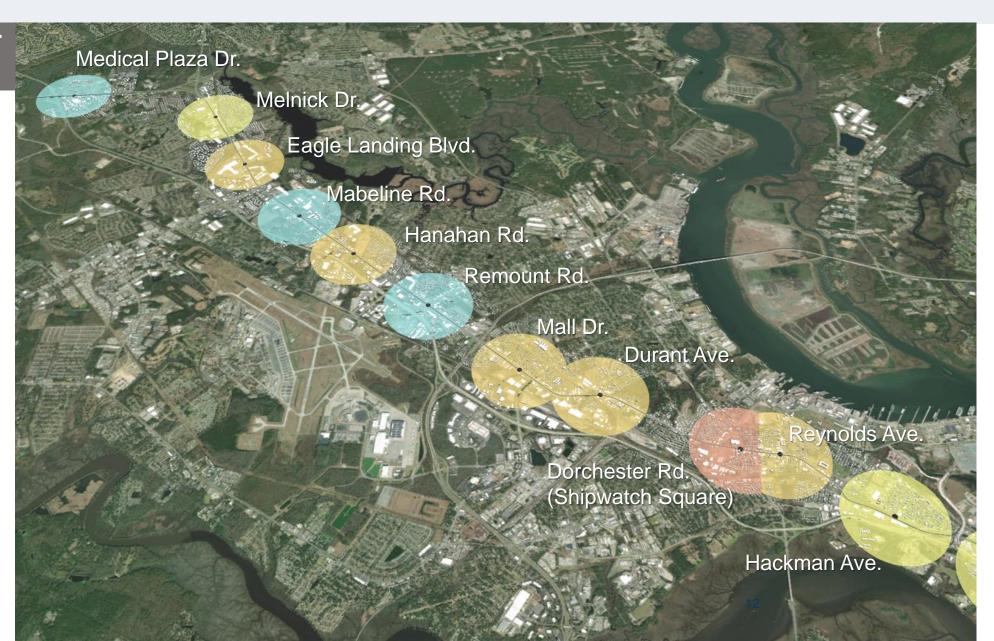
TOD Placetypes and LCRT Station Locations











TOD Design Themes for North Charleston

- Transition from suburban to TOD
- Create connected green infrastructure and open space
- Establish or reconnect the street grid
- Increase the housing supply
- Consolidate parcels over the long term
- Develop vertical and horizontal mixed use at of 2-6 stories
- Establish walkable commercial and residential streets on and off Rivers Avenue
- Concentrate infill and redevelopment of lower density commercial, vacant lands and parking areas
- Dedicate less land to parking











Eagle Landing Blvd. Station (Northwoods Mall Station Area)



Northwoods Mall Station Area Today

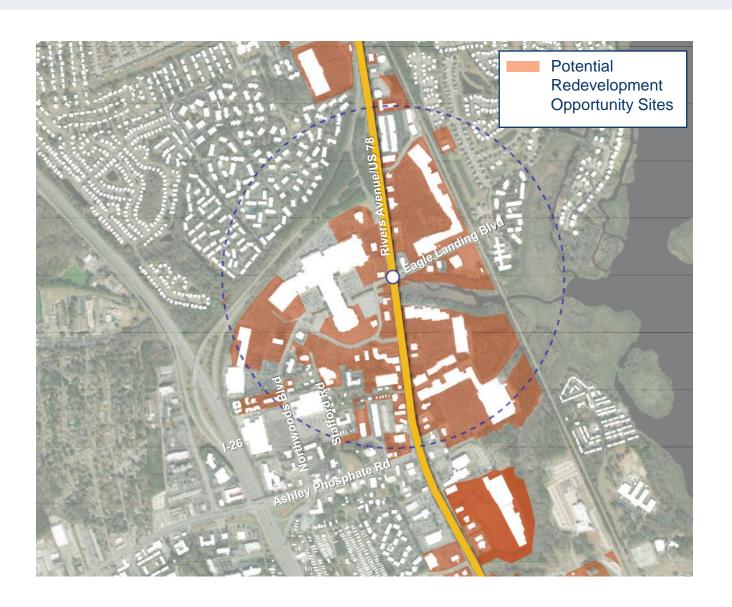
- Regional retail hub with 'Big Box' commercial and auto-dominated patterns
- Small percentage on office and retail
- Relatively strong retail hub for region
- Large mall as the anchor
- Pockets of residential within retail node, additional residential on the periphery
- Larger areas of surface parking
- Notable stormwater facilities above and underground flowing into natural waterways





Station Area Opportunities

- Demand for residential and potential to reconfigure retail into more urban patterns
- Redevelopment of commercial big box a national trend
- TOD Town Center with stronger balance of jobs & housing
- Large acreage of commercial makes larger transformation more viable



Phase I - Out Parcel Redevelopment



Phase II&III – Main Street Corridor

High performing retail remains
As it vacates,
mixed use becomes the option

Establishment of new Main Street corridor to anchor infill

Major greenspace as amenity and district wide stormwater strategy



Development Form & Program



TOD Elements	Before	After
Housing Units	2,800	4,900
Dwelling Units/Ac	7	15
Office	380,000 sf	1.4M sf
Retail	3.0M sf	2.5M sf
Building Heights	1-2 Stories	2-5 Stories



Northwoods Mall Station Area – Key Themes



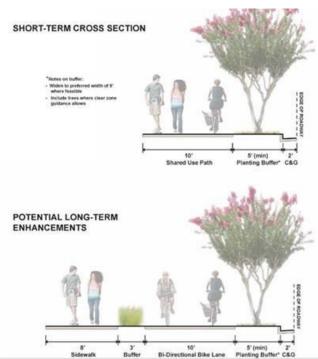
- Connected, walkable gridded street network
- Concentrated employment development within 1/4 mile of station
- 3 Re-organization of traditional mall into Mainstreet mixed use corridor
- 4 Regional open space and stormwater mitigation park

Multimodal Network

1

Street typologies build on previous work
Establish link between street type and development patterns
Allow for slower speed through streets and slower speed 'walk streets'









High Density Mixed Use Employment Core

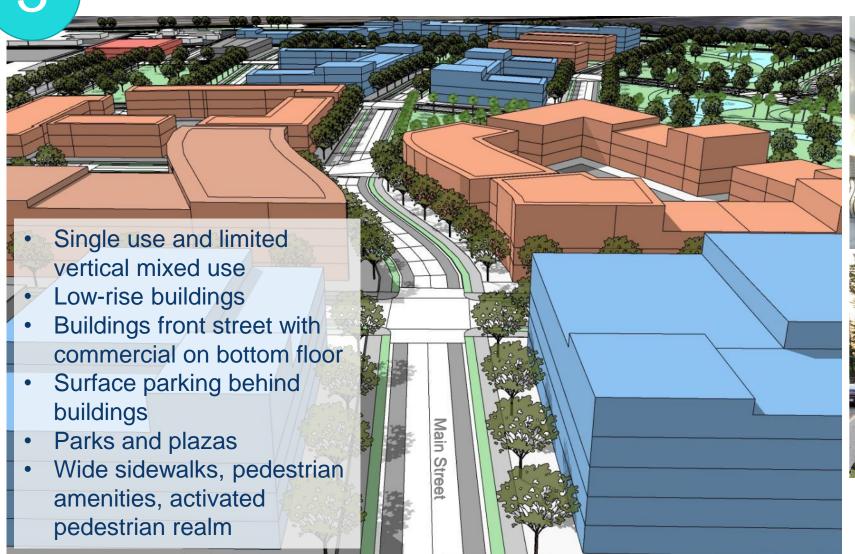








Main Street Commercial Corridor







Open Space and Storm Water Mitigation Park







Feedback & Ideas

Station Area Vision

Building Form, Scale and Uses

- Mix of uses, building heights
- Multimodal elements
- Connected green spaces
- Other features?

Policy Recommendations

- Minimum heights
- Affordable housing
- Pedestrian orientation
- Civic plazas
- Strategic parking
- Other elements?

Cultural, historical and anchor organizations

- Public space features
- Civic/community spaces
- Other layers of community story?

Concepts Discussion

- Illustrations to provide 'what ifs' for infill and redevelopment density associated with TOD
- Facilitate discussions with private sector
- Help local community members and city staff advance more detailed planning and zoning changes

Did we get it right?

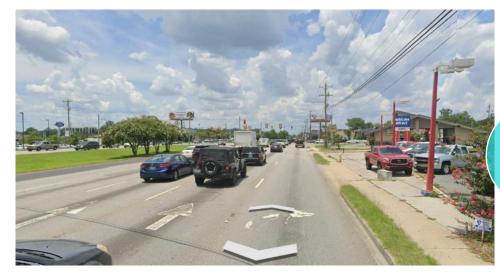
- What is missing or what needs to be pulled back?
- What are the biggest barriers or opportunities to implementation?

Remount Road Station Area



Remount Station Area Dynamics

- Major transportation crossroads with strong airport connections
- Auto-oriented commercial
- Notable barriers to walkability to west, but residential areas to the east within walking distance to station
- Jobs rich area
- Development activity present

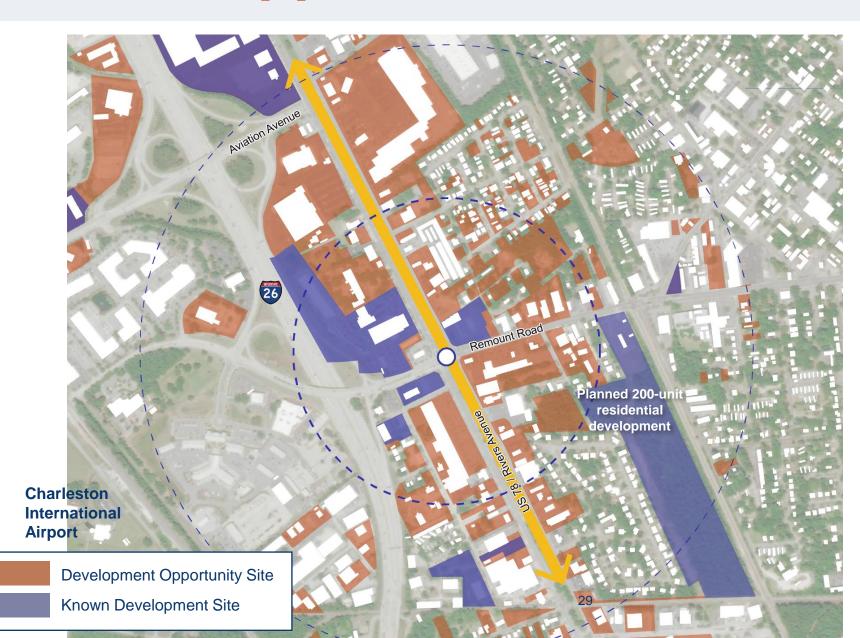




Looking north on US 78 towards station

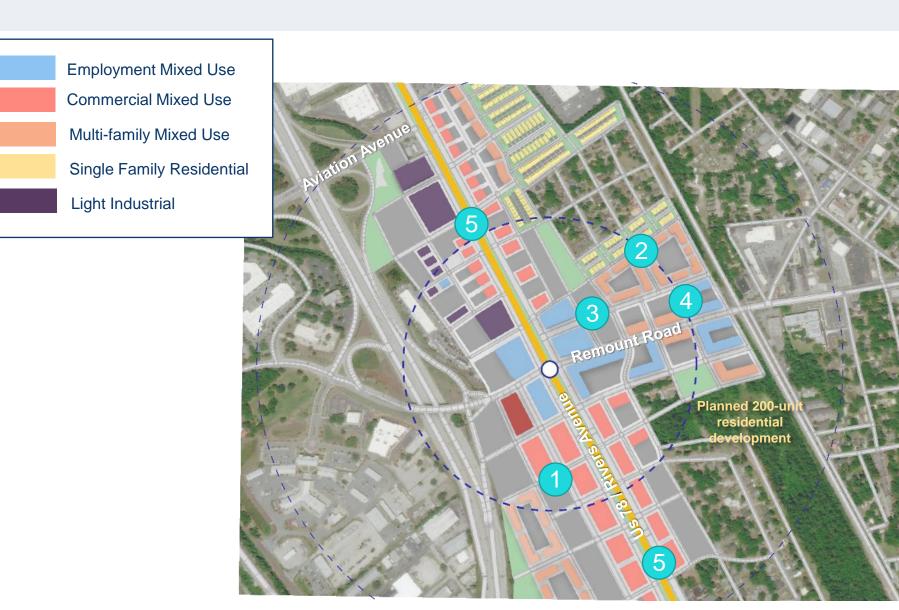
Station Area Opportunities

- Airport adjacent business uses
- Some larger parcel commercial property redevelopment potential
- Build on public/private employment hub uses
- New Palmetto Parkway strengthens overall access to the area
- Connect fragmented greenspaces
- Expand neighborhood grid to the east



Station Area Opportunities

- 1 Expand the grided street network
- Neighborhood infill with higher density residential
- 3 Employment / commercial infill in station core
- 4 Commercial edge connecting to points east
- 5 Smaller blocks and liner commercial buildings along LCRT corridor

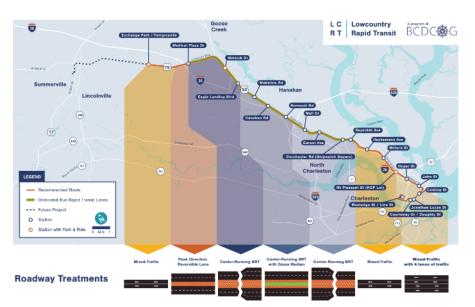


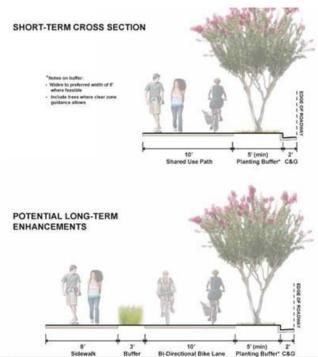
Multimodal Network

1

Street typologies build on previous North Charleston work Establish link between street type and development patterns Allow for slower speed "through streets" and slower speed "walk streets"

Additional LCRT bicycle and pedestrian enhancements at station





Neighborhood/Main Street Corridor 1-2 travel lanes (optional median) Low Vehicle volumes and speeds Moves people through and between neigh On-Street parking where appropriate Pedestrian and bicycle accommodated throug slow vehicular travel speeds Connector Corridor 2-4 travel lanes Balances traffic flow and connectivity Landscaped medians: applied access mana Accommodates transit, pedestrian and bicycle through separated or dedicated facilities Employment/Commute Corridor: 4-6 travel lanes High vehicle volumes and speeds Accommodates local truck/freight movement and Pedestrian and bicycle facilities (sidewalk, multi-use



Center Running BRT Concept at Remount Road



Neighborhood Infill







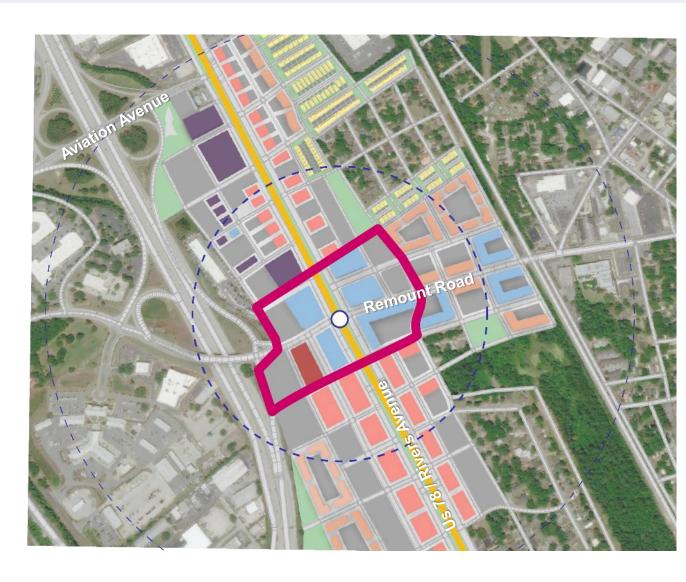




Concentrated Employment in Station Core







Mixed-use Commercial Edges

4









Connected Green Space

- Preserve existing wetlands
- Stormwater treated with street ROW and conveyed to treatment ponds or treated on site
- Small parks and community parks utilized with stormwater features
- Rain gardens and other LID applications to be utilized where feasible



LowcountryRapid Transit Development Massing & Program



TOD Elements	Before	After
Housing Units	840	2,000
Dwelling Units/Ac	2.5	8
Office	1.6M sf	2.0M sf
Retail	1.4M sf	1.4M sf
Hotel	0	185,000 sf
Building Heights	1-2 Stories	2-6 Stories



Feedback & Ideas

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Durant Avenue Station Area

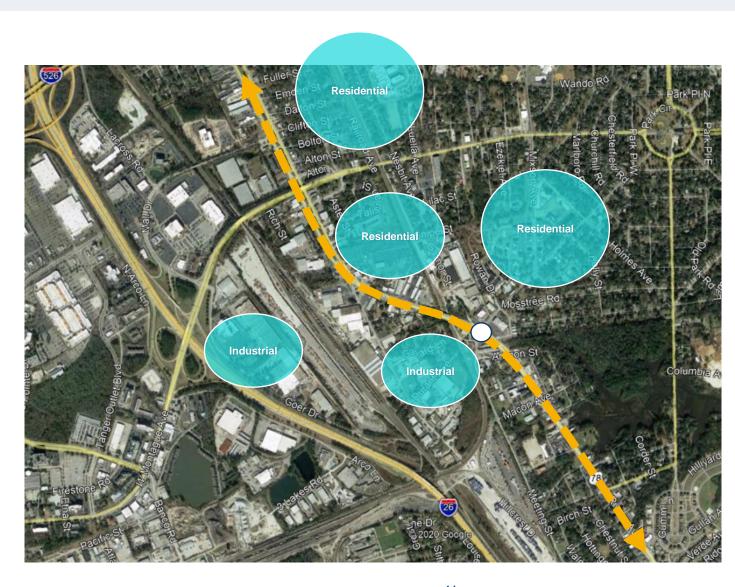


Durant Station Area Today

- Physical constraints associated with railroads and elevated roadway
- North Charleston Amtrak connection and community center
- Key redevelopment potential targeted for existing industrial areas in first ¼ mile
- Mixon residential a template for expanding residential developments



Looking north on US 78 towards station



Station Area Opportunities

- Build on momentum of Mixon Development for more infill residential
- Large parcel east of Rivers corridor and west of Amtrak a key site for mixed use node
- Retain light industrial and office uses to the west

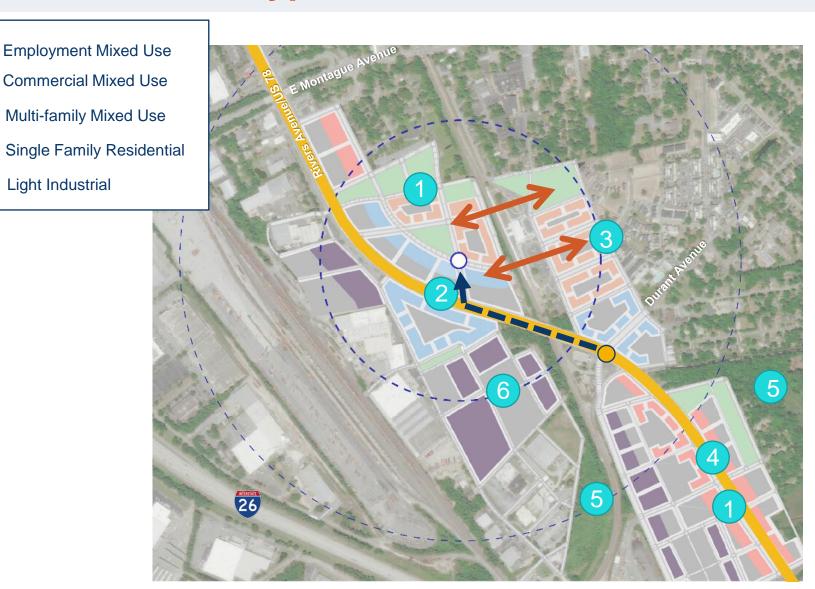


Development Form – Town Center TOD Place Type

Light Industrial

- Walkable gridded street network
- **Employment infill**
- 3 Mixed use multi-family neighborhoods
- **Infill small lot** commercial with building edges to street
- Connected green network
- Maintain / infill industrial

Pedestrian bridge connection

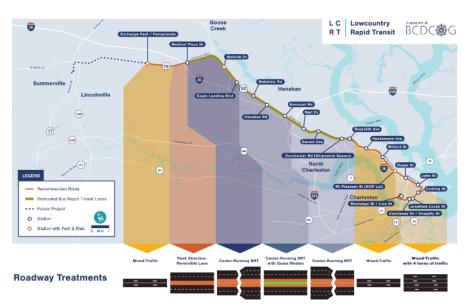


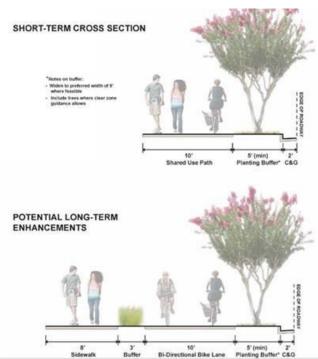
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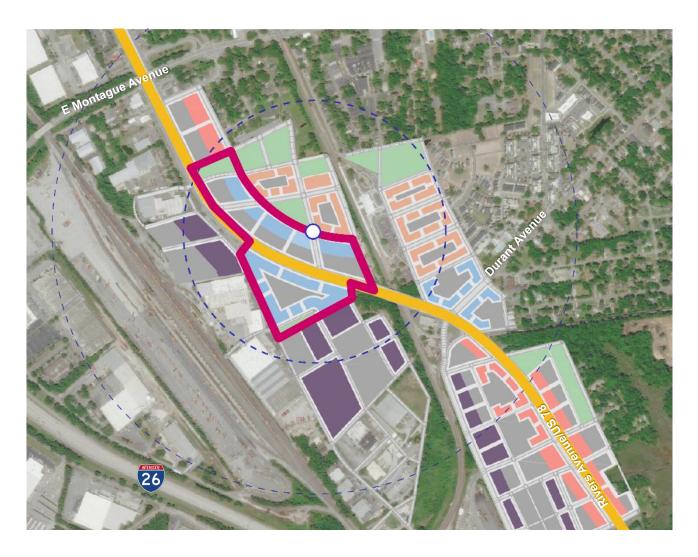
Concentrated Employment in Station Core

2









Mixed-use Family Neighborhoods









Small Lot Infill Commercial

4







Connected Drainage System

- 5
- Preserve existing wetlands
- Stormwater treated with street ROW and conveyed to treatment ponds or treated on site
- Small parks and community parks utilized with stormwater features
- Rain gardens and other LID applications to be utilized where feasible



Community park with recreation



Cooper River tributary and marsh – looking west from SR S 10 60



Drainage conveyance - Storm water to be mitigated and treated within station area

Intermodal Connectivity











LowcountryRapid Transit Development Form & Program

TOD Elements	Before	After
Housing Units	1,400	2,100
Dwelling Units/Ac	6	9
Office	1.2M sf	1.2M sf
Retail	650,000 sf	920,000 sf
Industrial	924,000 sf	1.2 M sf
Building Heights	1-2 Stories	2-5 Stories



Feedback & Ideas

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Dorchester Road (Shipwatch Square) and Reynolds Avenue



Shipwatch Square and Reynolds Ave. Station Area Dynamics

- Historic grid pattern within residential neighborhoods
- Existing Main Street character on Reynolds
- Notable supply of affordable housing nearby
- Underutilized existing commercial and smaller lots along Rivers
- Some large parcels of publicly owned and vacant
- Planned Charleston County social services hub and relocated CARTA SuperStop
- Active community organizations and revitalization efforts
- New freight corridor emerging along Cosgrove Avenue



Shipwatch Square – Looking south down US 52



Rivers and Reynolds – Looking northeast on US 78



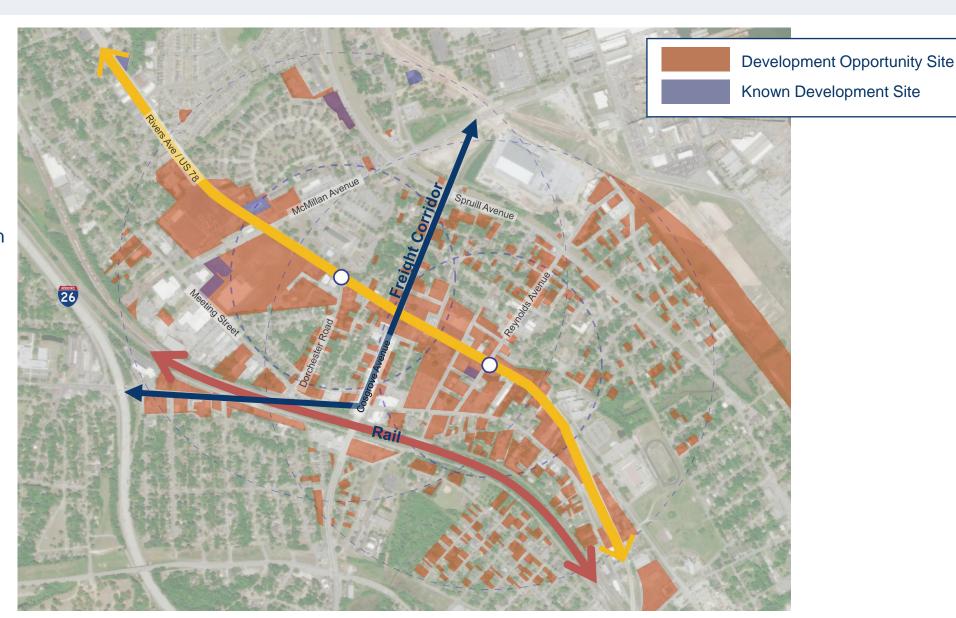
Shipwatch Square – Former Naval Hospital



Rivers and Reynolds – Looking west on Reynolds Ave.

Station Area Opportunities

- Existing historic neighborhood grid can be expanded
- Main Street reinvestment underway on Reynolds with small scale infill
- New Main Street/Commercial Corridor opportunities along McMillan Avenue
- Aging affordable housing creates opportunities for redevelopment with new affordable and market rate housing
- Large single ownership parcels provide most catalytic opportunities
- Smaller scale infill within residential and commercial areas on underutilized and vacant lots



Redevelopment and Infill Potential

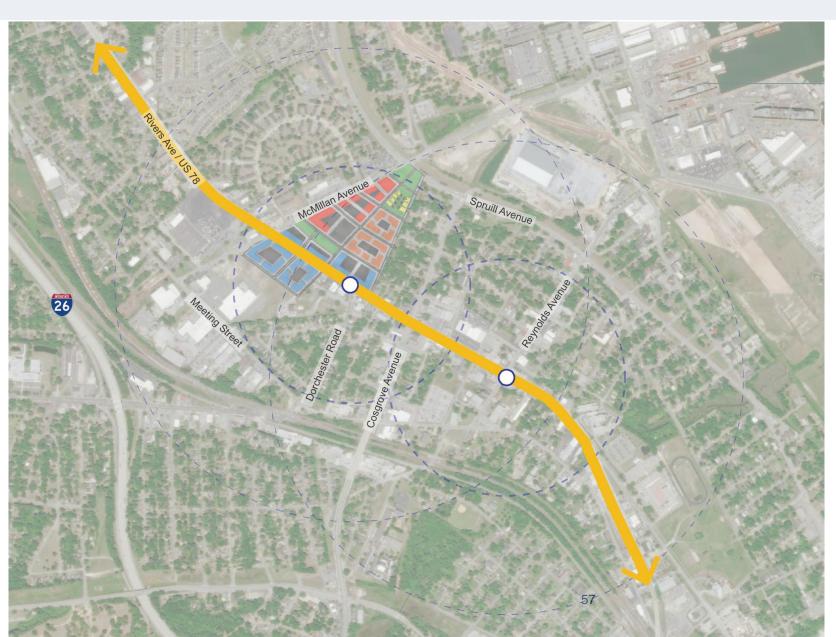
- 1 Reconnect and expand the grid when possible
- Infill employment with public/private uses
- 3 Reinforce Main Street on Reynolds
- 4 Infill with higher density residential to enable more housing supply and affordability
- 5 Create new upland open space and green infrastructure networks to connect with lowland environmental uses
- 6 Redevelopment to New Mixed Income and Affordable Housing
- Office and market rate residential



Potential Concept Phasing

Phase 1

 Naval Hospital and nearby large parcels redevelop and infill

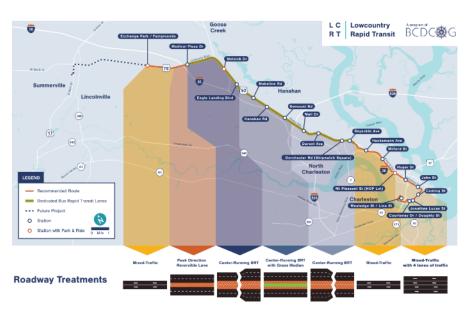


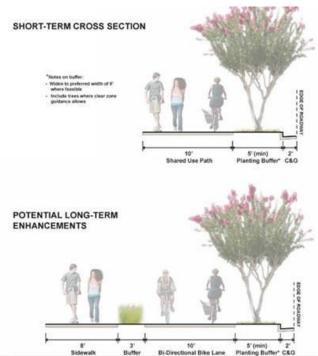
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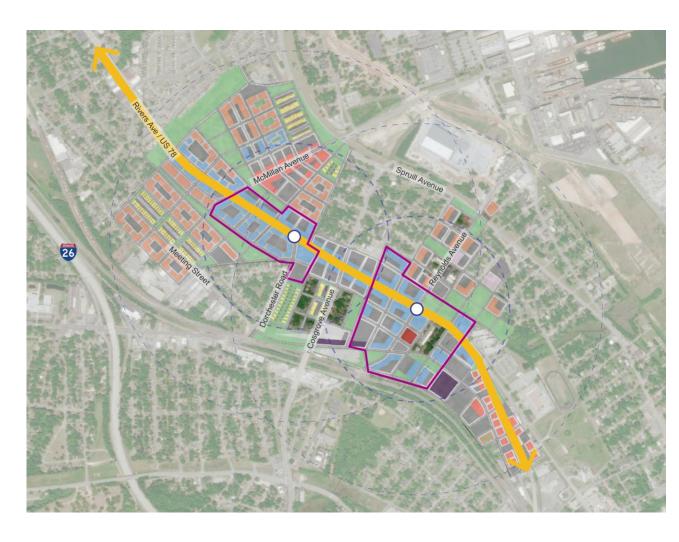
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2









Main Street Commercial Corridors

3

New McMillan Main Street Character





Existing and Improved Reynolds Main Street Character





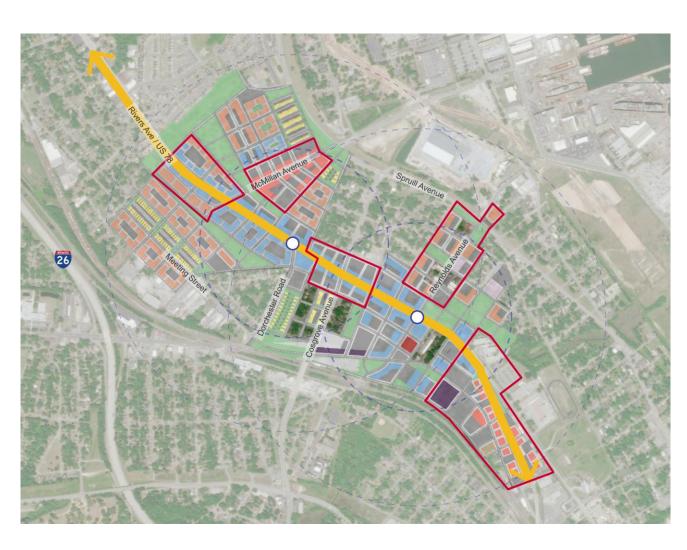


Edge Infill Commercial Mixed Use









Mixed-use Neighborhoods

4











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Rapid Transit Development Form & Program



Shipwatch Square Station Core

earver weare		
	molds Avenue	
	8 Rivers Avenue	
	Avenue	

Rivers Avenue and Reynolds Avenue Station Core

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