# Cypress Creek Mobility Hub Master Plan



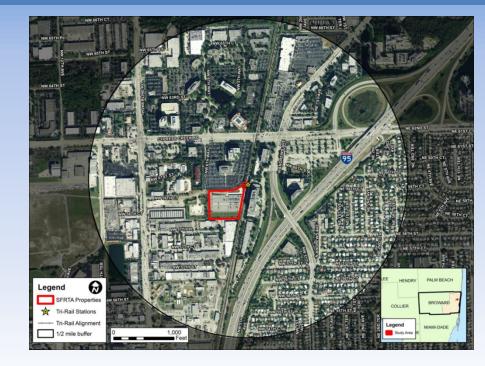
# **Progress Meeting**

# April 10, 2015

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# **Presentation Structure**

- Draft Area Concept Plan
  - Land Use
  - Mobility
  - Urban Design
- Draft Site Plan Concepts
  - Goals
  - Assumptions
  - Considerations



• SFRTA Site Development Program Options



Long term, area-wide concept "Synergy" opportunities for station, site and broader area Mutually supportive public and private investments

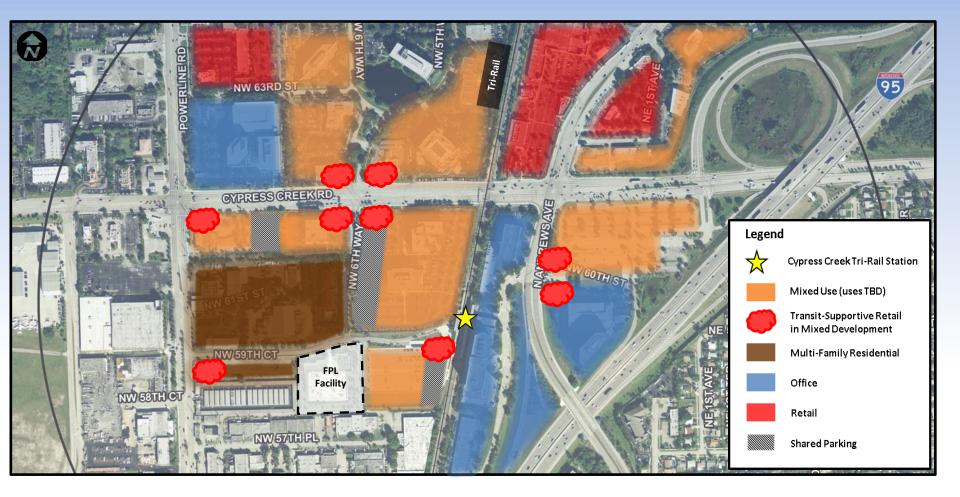
#### Land Use

- "Quadrants" served by shared parking and retail nodes/clusters
- Transit-supportive retail to primary uses, demand will grow over time for retail "infill"
- Clustered retail uses can share parking/signage
- Include amenities for residents/workers/visitors (plazas, recreational spaces)





# **Draft Area Concept Plan**





# **Draft Area Concept Plan**

### Mobility

- Ped/bike mobility within "quadrants" with designated locations for safe crossings between
- Accommodate curb-side bus stop facilities, tied to Tri-Rail via improved pathways
- Relocate I-95 interchange connection to east of Andrews

#### Urban Design

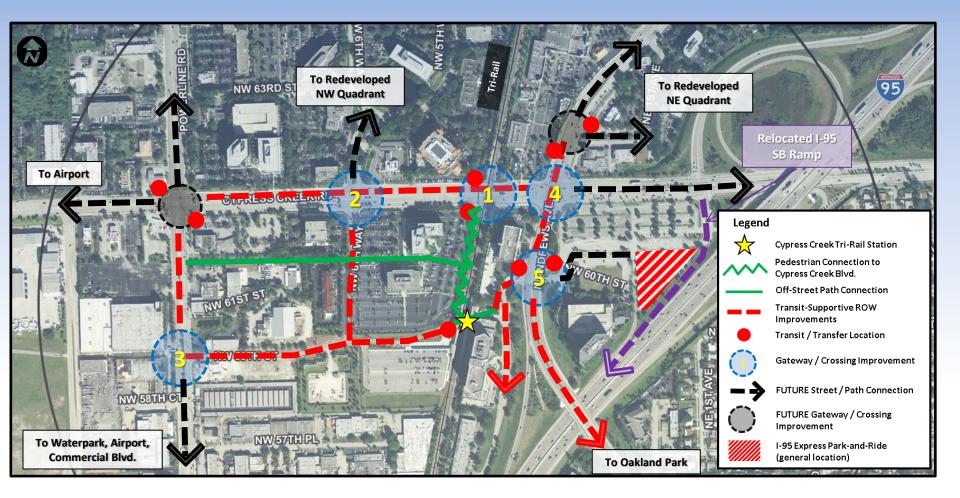
- Common streetscape and wayfinding elements to "brand" the Uptown area (prototypes)
- Boost the "presence" of the Tri-Rail station
- Establish a transit-friendly zone between Andrews and Powerline, and south to Andrews Way







# **Draft Area Concept Plan**







# **Potential Public Investments**

"Menu" of investments may include...

- Pedestrian connection from Cypress Creek Tri-Rail Station platform to Cypress Creek Rd.
- "Gateway" and crossing improvements at:
  - 1. Cypress Creek, mid-block near tracks
  - 2. Cypress Creek and NW 6<sup>th</sup> Way
  - 3. Powerline and NW 59<sup>th</sup> Ct
  - 4. Cypress Creek and Andrews Ave
  - 5. Andrews Avenue and Andrews Way









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# **Potential Public Investments continued...**

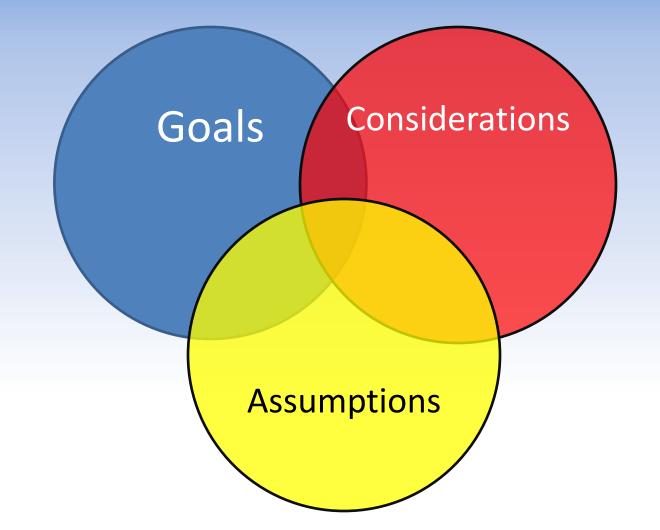
- Sidewalks and lighting at station approaches
- Amenities/wayfinding at new stop/transfer locations
- Bicycle parking facilities at station/garage
- Participation in garage construction
  - Commuter parking spaces
  - ✓ Car sharing
  - ✓ Car charging stations







# **Draft Site Plan Concepts**







# Goals

- Enhance area land use mix
- Maximize opportunities for shared parking
- Reduce visual impact of parking
- Use parking structure as a buffer
- Improve access to the Tri-Rail station
- Improve views to the Tri-Rail station
- Establish strong station area identity/image







## Assumptions

- Zoning
  - ✓ Zoning-related use restrictions will be resolved
  - ✓ Zoning category will allow for development flexibility
- Utilities
  - ✓ New utilities will be brought in from Powerline Road to service the site
- Land Use
  - $\checkmark~$  Amendment to be processed and approved by the City and County





# Considerations

- Site context / conditions
  - ✓ Aesthetic, attractiveness, and functional requirements
- Land area availability
- Maximum allowable building height
- Site drainage

✓ Broward County Development and Regulations Department

- Parking requirements
  - ✓ Transit

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#### ✓ Future land uses

### **Site Context Conditions**

- **Cypress Creek Station**
- **University of Phoenix**
- **Extended Stay Hotel**

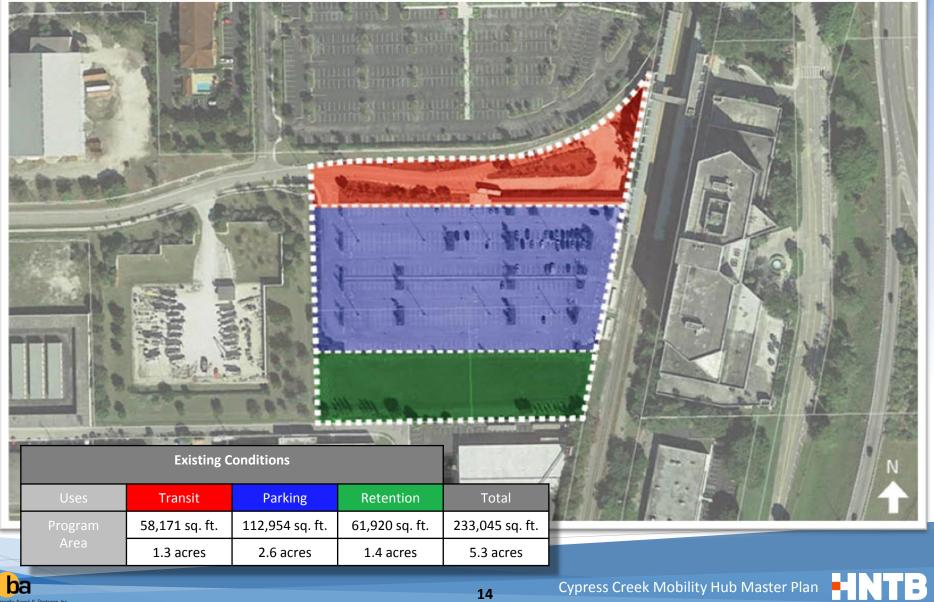




HNTB

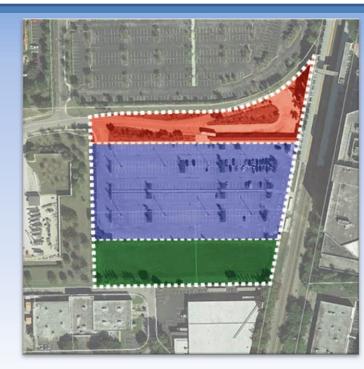
### Land Area Availability

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# Land Area Availability

- Suggest maintaining vehicle entrance area
  - ✓ Provides sense of arrival
  - Maintain views of station
  - Visually and functionally opens station to future development
  - $\checkmark\,$  Allows for convenient drop-off
    - ✓ Can be located within parking structure per SFRTA
    - ✓ Additional area available for development



- Existing parking area as buildable site area (blue)
- Retention area as both drainage and open space (green)
  - ✓ Buffer to industrial uses
  - ✓ Zoning open space requirements

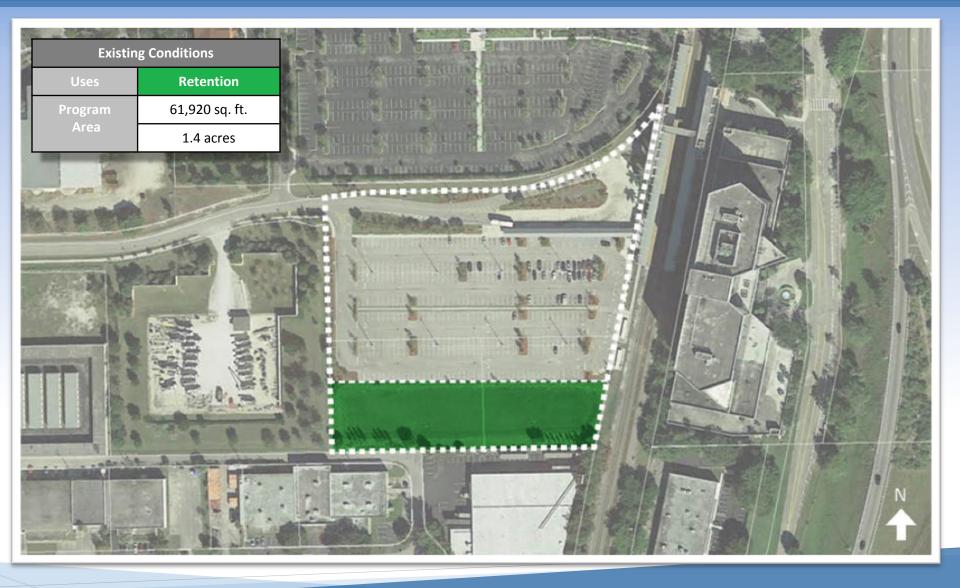


#### Maximum allowable building height





## Site Drainage









## Site Drainage

From the Broward County Storm Water Permit and Drainage Report for the site:

- Discharge Area
  - ✓ Site has no offsite discharge...drainage is completely self-contained
  - ✓ Site does not receive storm water from the neighboring areas
- Site handles storm water with
  - ✓ Dry retention pond
  - ✓ Site grading (green area south of the pond)
  - $\checkmark$  Pavement storage within the existing parking lot
- Limitations
  - ✓ Drainage wells
    - ✓ Cannot be used on this site
  - ✓ Ex-filtration trenches
    - ✓ Effective use of ex-filtration trenches not suitable based on site percolation tests





## **Site Drainage Potential Solutions**

- Site was designed for a 25 year flood event
- Broward County requires only a 5 year flood event design
  - Provides an opportunity for reduction in the amount of required retention area
- Parking structure could be located over retention area
  - ✓ Elevated on piles or cantilever
  - ✓ Maintenance program approved by Broward County
  - ✓ Allows maximization of site land area



# **Transit Parking**





# **Parking – Future Land Uses**

- Fort Lauderdale, Florida Unified Land Development Code (Section 47-20)
  - ✓ Residential: (1.75/1 BR Unit) (2/2 BR Unit) (2.1/3 BR Unit)
  - ✓ Office: 1/250 sq.ft. gfa
  - ✓ Hotel: 1/room
  - ✓ Retail : 1/250 sq.ft.
- ULDC shared parking provisions:
  - ✓ Parking reduction
  - ✓ Shared parking alternatives
  - ✓ Criteria and review process required
- Developer requirements
  - Minimum number of spaces to secure financing

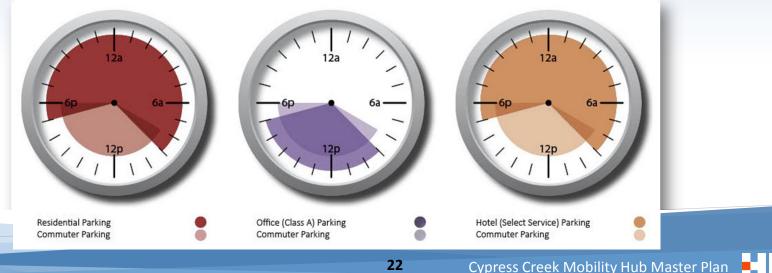


# **Shared Parking Potential**

- Consider using excess transit capacity (95 spaces) towards new use(s)
- Apply shared parking factors based on a 'smart growth approach'
- Peak demand period varies by use

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- ✓ Apply shared factor of 30% Residential to Commuter
- ✓ Apply shared factor of 30% Hotel to Commuter
- ✓ Apply shared factor of 10% Office to Commuter



## **Summary of Potential Solutions**

- Context
  - ✓ Optimize location of uses
  - ✓ Preserve views of station
  - ✓ Maximize visibility of proposed uses
- Land area availability
  - ✓ Maximize land area through innovative retention solution
  - Optimizing building layout and parking
- Meet allowable height of 100 feet
- Drainage
  - ✓ Reduction of retention requirement from 25 year to 5 year flood design
- Parking
  - ✓ Utilize excess capacity of 95 spaces
  - $\checkmark$  Allow for shared parking





# Minimum build out: No parking structure

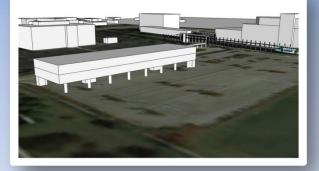
What can be built on the site without any structured parking?

- Maintain 250 surface spaces for commuter uses
- Minimize footprint of proposed uses
  - ✓ Building on piles
  - ✓ Limit loss of 95 excess capacity parking spaces





## Minimum Build-out Options (No shared parking)



#### RESIDENTIAL

- 46 units
- Total parking requirement = 92
  - Less than the 95 excess available



#### OFFICE

- 20,000 sq. ft
- Total parking requirement = 80
  - Less than the 95 excess available

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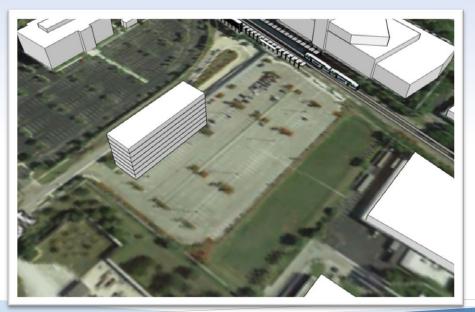
## HOTEL

- 90 rooms
- Total parking requirement = 90
  - Less than the 95 excess available



## Minimum Build-out Options (Shared parking)

- Office or Residential not possible with surface parking only
  - ✓ Required building footprint eliminates 250 commuter parking spaces
  - ✓ High parking demand exceeds surface parking capacity
- Hotel with surface parking possible
  - ✓ Aggressive shared parking ratio (85-90%)
  - Requires acceptance by SFRTA, City of Fort Lauderdale, and future developer



150 rooms = 150 spaces needed 150 spaces \*.85 reduction = 25 spaces dedicated for hotel

### **Summary of Minimum Build-out Options**

- Surface parking options limit development potential
- Hotel with surface parking possible
- Parking structure integral for most development scenarios
- Parking structure maximizes development scenarios
  - ✓ For mixed uses
  - ✓ For single use



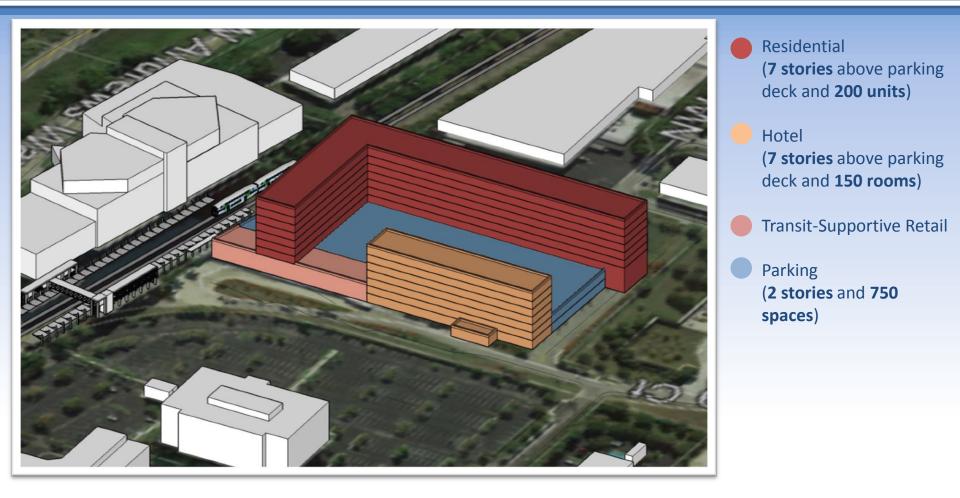
- Deck the totality of the existing surface parking area
  - ✓ Provide two levels of parking on total footprint
- Amenity deck on parking structure
  - ✓ Recreation uses open space for residential and hotel
- Dry retention area remains intact
  - ✓ Parking structure to partially project over retention
  - ✓ Maintains buffer to industrial area
- Mixed use based on Market Study
  - ✓ 150 hotel rooms
  - ✓ 200 residential units
  - ✓ Transit-supportive retail



- Hotel at front of site
  - ✓ Provides high visibility
  - ✓ Buffers parking use
  - ✓ Allows access at grade
- Residential towards rear
  - ✓ Access to amenity deck
  - ✓ Buffered from industrial area on rear
  - ✓ Allow vehicular access at grade
- Provide transit-supportive retail at street level
- Use smart growth shared parking approach (hotel/residential 30%)
  - ✓ Residential 280 spaces
  - ✓ Hotel 105 spaces
  - ✓ Commuter 250 spaces
  - ✓ Retail 40 spaces
  - ✓ TOTAL 675 spaces needed







## **Summary of Maximum Build-out Option**

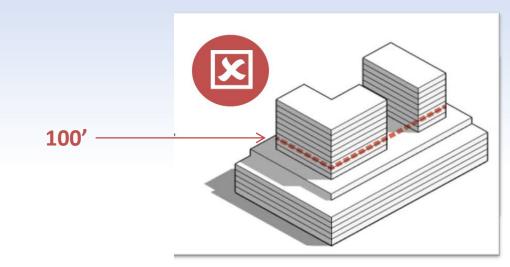
- Maximizes use of land resources
- Provides for significant density
- Constructed as one project
  - ✓ Substantial initial investment
- Difficult to phase construction and maintain commuter parking use
- Cost considerations
  - ✓ Higher cost of parking structure
  - ✓ Higher cost of residential and hotel uses





- Independent parking structure
  - ✓ Ability to meet height restriction
  - Ability to phase construction of multiple uses
  - ✓ Less costly

- Integrated parking structure
  - ✓ Building constructed over parking
  - ✓ FXE height restriction (100') limits ability to stack development
  - ✓ Construction phasing becomes difficult
  - ✓ Higher costs







- Integrated parking structure will exceed FXE allowable height limit
  - Parking demand for any singular use approaches FXE height limit •

Use	Site Concept				
Residential	200-250 rental apartments				
Office	125,000 - 150,000 <u>+</u> sq.ft.				
Hotel	150 rooms				

	Parking Structure		
	Demand	2-Bay	3-Bay
Residential	600 spaces	6 floors	4 floors
Office (Class A)	790 spaces	7 floors	5 floors
Hotel (Select Services)	355 spaces	4 floors	3 floors

\* Assumes shared parking reduction and use of excess 95 spaces



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Cypress Creek Mobility Hub Master Plan

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## **Alternate Development Options: Mixed Use**

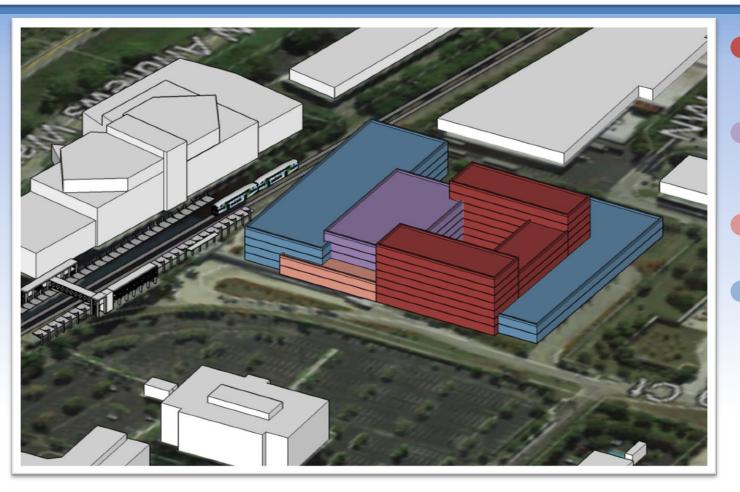
	А	В	С	D	E	F	G	н	
Use Type	Market Analysis Absorption	Parking Req't by Code	Parking Deman d by Code	Present Surface Parking Count	SFRTA Lot 2020 Parking Demand (Tri-Rail)	2020 Excess Capacit y =(D+E)	Shared Parking Factor	Shared Parking Reduction (Spaces)=C x G	Required Structured Parking Spaces =C+D-F-H
Residential	126 units	2 per unit (avg.)	252 spaces				30%	75.6	176 spaces
Office	69,000 sq.ft.	1/250 sq.ft.	276 spaces	345 spaces	250 spaces	95 spaces	10% reduction	27.6 spaces	498 spaces

#### **Total Parking Spaces Required**

- ✓ 498 Spaces required for Commuter and Office Parking with 10% shared parking factor
- ✓ 176 spaces required for residential with 30% shared parking factor
- ✓ Assumes limited retail (10,000 sq.ft.) parking will be supplied by the two parking decks



#### **Alternate Development Options: Mixed Use**



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Residential (**7 stories** above parking deck and **126 units**)

Office (4 stories and 69,000 sq.ft.)

Transit-Supportive Retail (10,000 sq.ft.)

Parking 2 structures needed to meet demand

Structure 1 (4 stories and 498 spaces) Structure 2 (2 stories and 244 spaces)

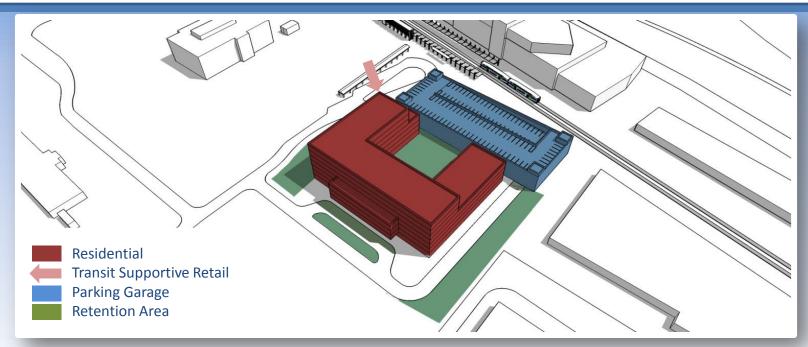


#### **Alternate Development Options: Mixed Use**

- Physical constraints of site area and maximum height limits may not accommodate mixed uses
- Need for two parking structures
- Development density of the mixed uses is limited

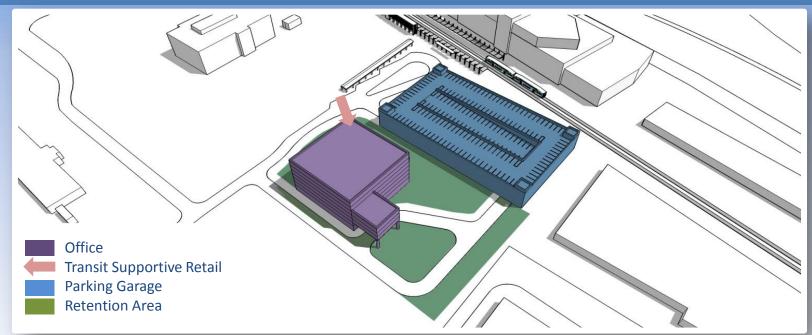


### **Alternate Development Options: Residential**



- Market Study calls for 250 units
  - ✓ 38 units/acre
- Building Height 7 floors
- 600 total spaces needed
  - Includes commuter and residential demand
  - ✓ Assumes 30% shared parking reduction

### **Alternate Development Options: Office**



- Market Study calls for 150,000 sq.ft.
- Building Height 7 floors
- 790 total spaces needed
  - ✓ Includes commuter and office demand
  - ✓ Assumes 10% shared parking reduction



#### **Alternate Development Options: Hotel**



- Market Study calls for 150 rooms
- Building Height 7 floors
- 350 total spaces needed
  - ✓ Includes commuter and hotel demand
  - ✓ Assumes 30% shared parking reduction





# **Next Steps**

• May:

- Refined site concept(s), evaluation
  - Public realm investment concepts / costs
- June: Concept illustrations (preferred site plan and streetscape elements)
- July: Development strategies (phasing, funding, plan/zoning amendments, partnerships, etc...)
- Aug/Sept: Finalize deliverables (reports, draft RFP elements)





# Friday, May 8 9:00am Broward MPO Board Room



