

# Monroe Street Reconstruction

Final Corridor Design  
Presentation & Open House

August 16, 2017



# Tonight's Agenda

## Thank you to Wingra School!

1. Project Overview
2. Design Proposal & Preparing for Reconstruction
3. Open House

# Project Team

- **Engineering**
  - Christy Bachmann, P.E., Principal Engineer
  - Jim Wolfe, Project Engineer
  - Phil Gaebler, Water Resources Specialist
- **Economic Development**
  - Ruth Rohlich, Business Development Specialist
  - Mike Miller, Business Development Specialist
- **Traffic Engineering**
  - Yang Tao, Ph.D., P.E., Assistant City Traffic Engineer
- **Planning**
  - Rebecca Cnare, PLA, Urban Design Planner
  - Benjamin Zellers, Transportation Planner
- **Madison Metro**
  - Tim Sobota, Metro Transit Planner

# Key Dates

- **July 20-October 6:** Public engagement for Crazylegs Plaza and Wingra Park entrance design
  - Public art, green infrastructure, connectivity
- **September-October:** Public assessment hearings (Board of Public Works & Common Council)
- **November:** Project out to bid
- **Starting in February 2018:** Public information meetings on what to expect during construction

# Key Dates: Crazylegs Plaza & Wingra Park Entrance

- **September 14:** Design alternatives presentation
  - **Wingra School, 6:00-7:30PM**
  - Landscape, public art, green infrastructure, multimodal connectivity, activity spaces
- **October:** Final plans submitted for city review
- **November:** Project out to bid
  - Final presentation, date TBD





# Public Input & Engagement



# Where We've Been

- Engagement Resource Team
- Community survey
- Kickoff meeting
- 2 business focus groups
- 2 green infrastructure focus groups
- Ped, Bike, Transit World Café
- Green Infrastructure World Café
- Cross Section Workshop
- Cross Section Open House
- Wingra Park Entrance Workshop
- Preliminary Design Workshop



# Meeting Ground Rules

- Ask clarifying questions as we go (e.g., to explain a term or repeat a statement).
- Save longer discussion questions for the end.





# Project Overview

Jim Wolfe

Project Engineer, City of Madison



# Project Scope & Timeline

- Reconstruction will occur within nine months:
  - March-November 2018



- Utilities
- Street

# 2018 Project Budget

- Total project budget: ~ \$17 million
- Street: \$9.8 million
  - Infrastructure replacement (pavement, curb, sidewalk)
  - Lighting and signal replacement
  - Pavement markings
  - Other pedestrian improvements
  - Some storm sewer (inlets & leads)
  - Placemaking (including Crazylegs Triangle & public art)
  - Undergrounding in business districts



# 2018 Project Budget

- Sanitary Sewer: \$4 million
  - Replacement of sewer main & laterals
- Water Main: \$2.2 million
  - Replacement of main & reconnection of services
- Storm Sewer: \$750,000
  - Replacement & installation of new main
- Water Quality: \$200,000
  - Catch basins & treatment structure
- Rain Gardens: \$20,000

# Proposed Design

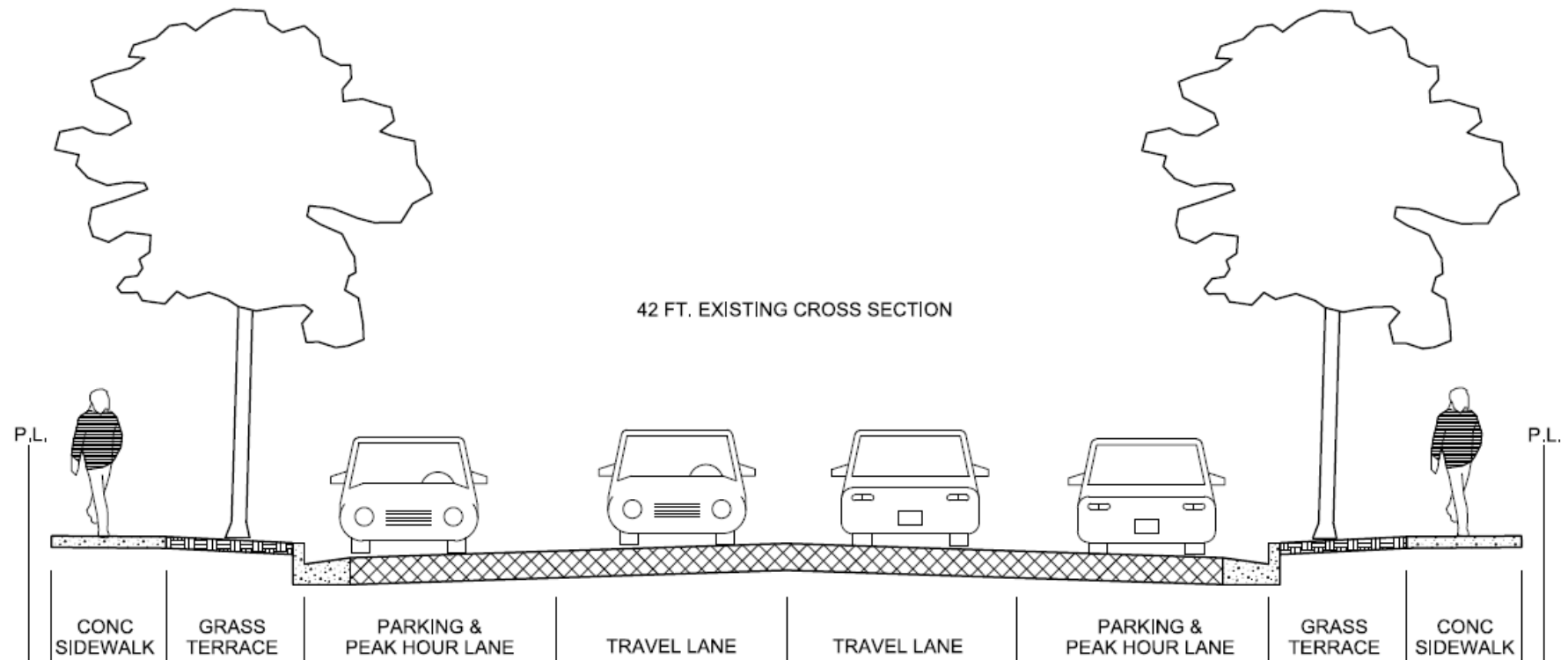
Jim Wolfe, Project Engineer

Phil Gaebler, Water Resources Specialist



# Approved Cross Section

- Existing configuration with numerous modifications
- How do we improve the pedestrian environment, enhance the sense of place and support the “green street” vision?



# Maintain and Support What's Working

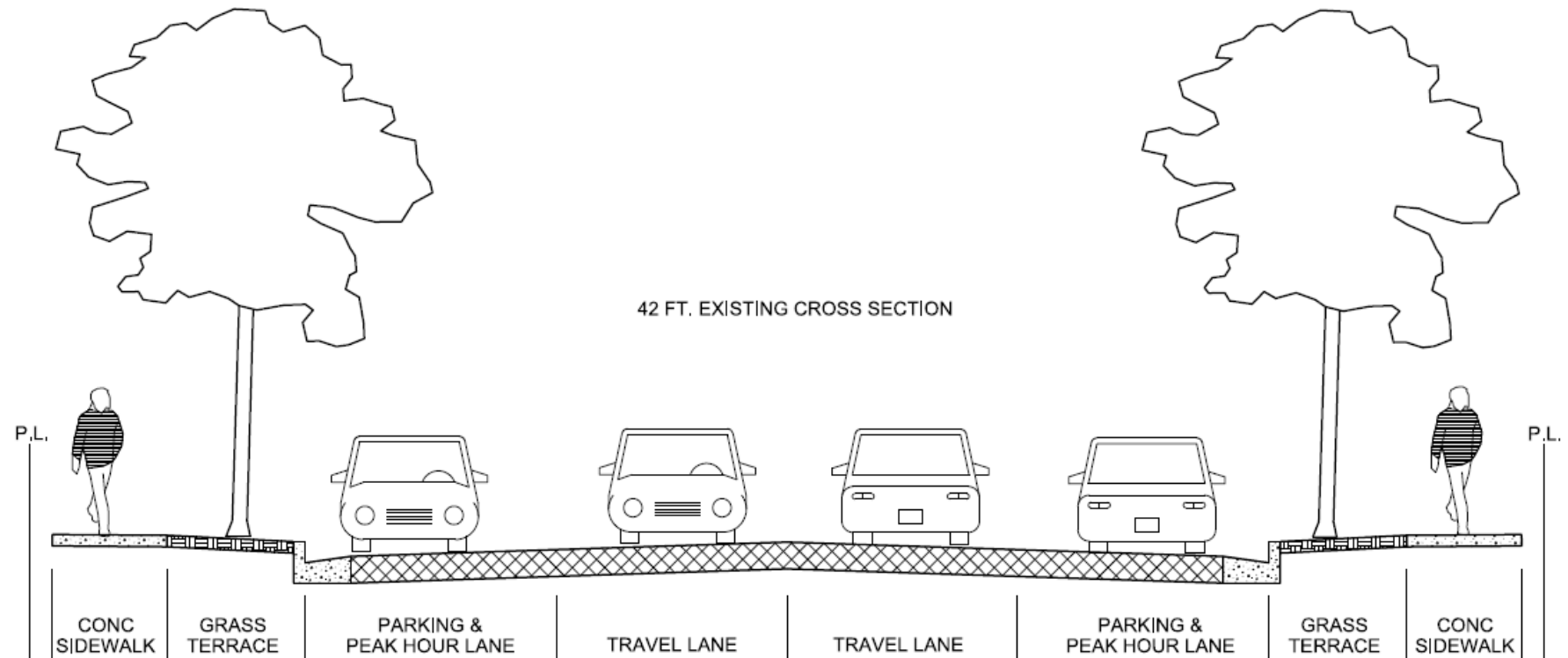
- Healthiest local street retail outside of downtown Madison
- Thriving restaurant scene
- High property values
- Anchor institutions (UW, Edgewood)
- Numerous local and regional community amenities (Wingra Park, Arboretum, SW Commuter Path, Glenwood Park, etc.)
- Frequent Metro service
- Easy access to Downtown, east side and west side





# Install a Coordinated Mix of Improvements

- Pedestrian infrastructure
- Bicycle infrastructure
- Green infrastructure
- Bus stops
- Parking meters
- Placemaking “nodes”



# Pedestrian Infrastructure

- Rectangular rapid flashing beacons at six intersections
- Pedestrian countdown timers
- Leading pedestrian intervals at some intersections
  - “Walk” signal appears before green light
  - Already installed at Grant Street



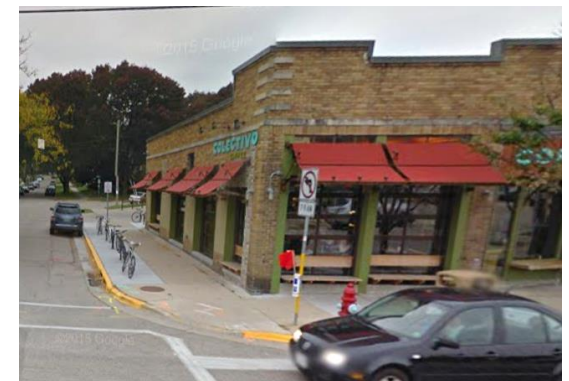
# Pedestrian Infrastructure

- High-visibility crosswalks at key locations
- Crossing islands
  - Coordinate with bus stops
- Pedestrian-scale/decorative lighting in business districts
- Raised intersections at:
  - Harrison
  - Leonard
  - Knickerbocker
  - Glenway
- Narrowing from Edgewood to Regent



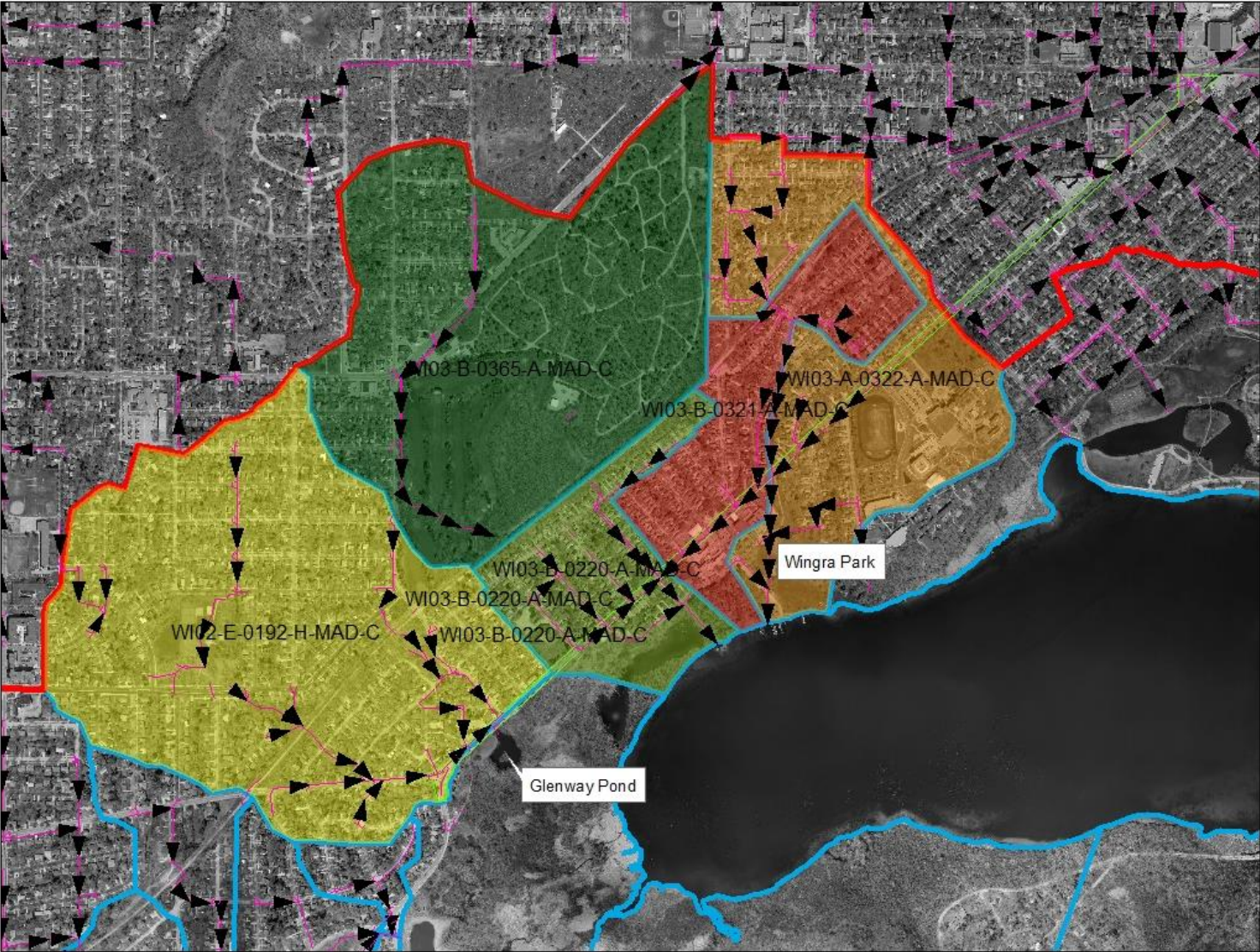
# Bike Infrastructure

- Improved signage along the SW Commuter Path
  - Will be completed before or during project
- On-street bike parking
  - Attached to parking meter markers
  - Post-and-ring
- Side street parking:
  - At corners where there is space and property owners request





# Green Infrastructure



# Proposed Treatment Options

- Wingra Park Screen Structure
- Side Street Bioretention/Rain Gardens
- Bed Load Trap/Catchbasin
- Rock Infiltration Trench
- Expanded Tree Grates



# Wingra Park Screen Structure



Annualized cost per pound  
of total Phosphorous (TP) =  
\$347- \$417



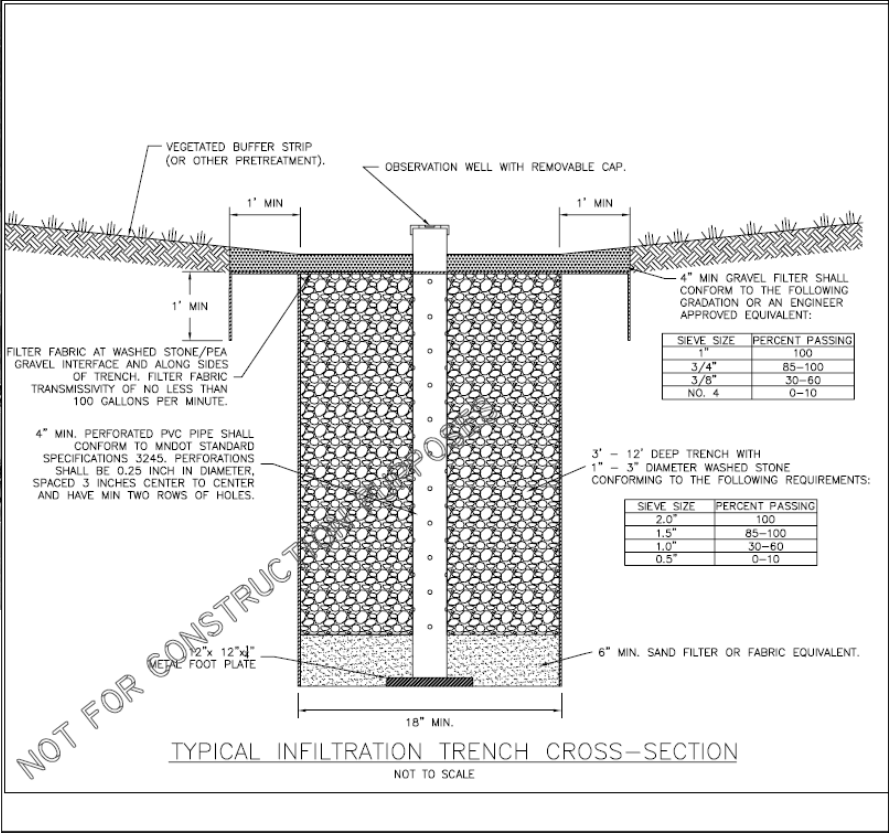


# Side Street Rain Gardens Constructed as Bioretention

- 20 suitable locations
- Property owner has right of refusal
- Can be maintained by others
- Construction cost can be absorbed by the city



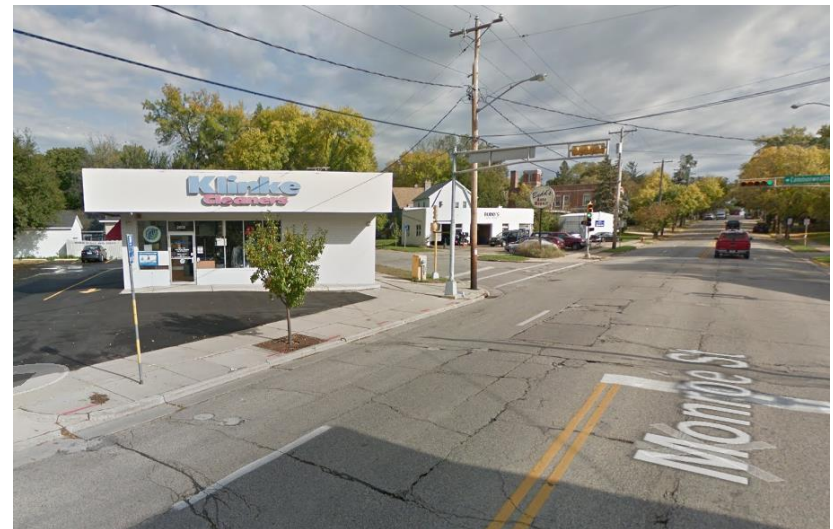
# Rock Trench





# 4' x 12' Tree Grates and Soil Improvements

- Reduce soil compaction
- More soil volume for trees
- Terrace excavated from curb to sidewalk
- No filtering of street water
- Less risk of tree mortality
- Suitable where terrace is concrete from building to curb or existing soil is highly compacted



Where  
does this  
get us?

• Wingra Screen	36 lb / year
• Rain Gardens	4.6 lb/ year
• Bed Load Traps	0.5 lb/ year
• <u>Rock Trenches</u>	<u>1.5 lb/ year</u>
Total	42.6 lb total phosphorus/year

- Added to existing reduction, total phosphorus reduction will be at **22%** for the watersheds draining across Monroe Street.

# Green Infrastructure Support Policy

- Policy recommendation to support stormwater management in the Wingra and Monona Bay Watersheds
  - These waterbodies do not benefit from adaptive management
  - Policy would support the installation of stormwater treatment in the adjacent commercial properties.

# Additional Placemaking + Green Infrastructure

- Crazy Legs Triangle – opportunities for:
  - Public art
  - Bus stop
  - Seating
  - Bikes
  - Green design & education
- Wingra Park entrance – opportunities for:
  - Smaller-scale public art
  - Bus stop
  - Landscape design
- ***Design alternatives meeting on September 14<sup>th</sup>***





# Parking Meters and Bus Stops

- Multi-space smart meters
- Bus stop amenities





# Bus Stops



- New locations adopted by Transit & Parking Commission on 8/9
- Total of 9 fewer stops than today
  - Improves on-time performance
- Average distance is 1,100 feet
- Most stops located **after** intersections
  - Improves pedestrian safety and driver visibility
- For more information:  
[www.cityofmadison.com/metro/monroe/index.cfm](http://www.cityofmadison.com/metro/monroe/index.cfm)



# Preliminary Corridor Design

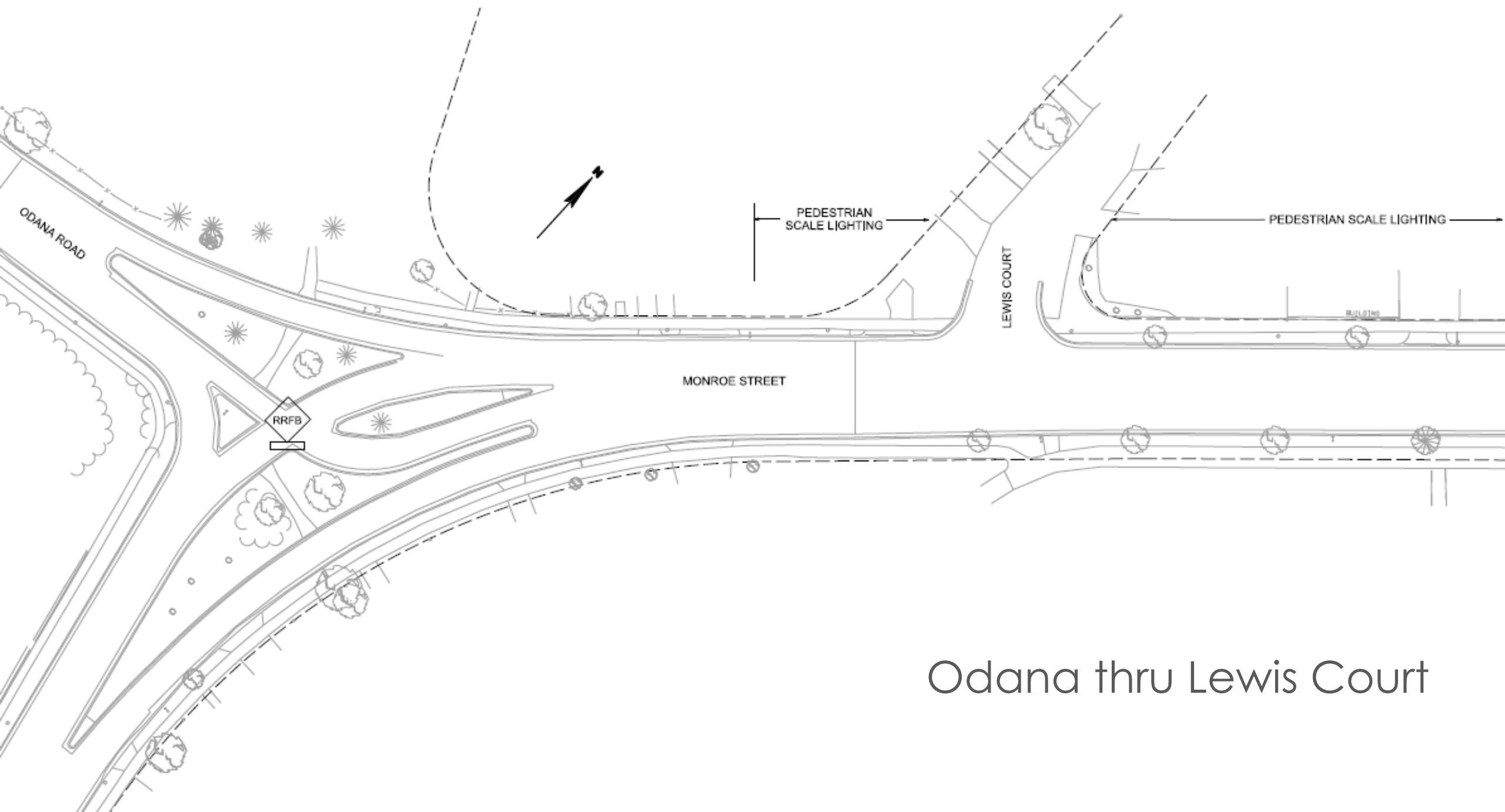
# Design Updates

- Street width between Harrison & Regent now proposed 45 ft.
  - Westbound (uphill) biking spacing
- Width from Edgewood to Prospect narrowed to 42 ft.
- Changed corner of Prospect RRFB location
- RRFB moved from Knickerbocker to Sprague
- RRFB moved from Western to Chapman
- Updated bus stop locations based on TPC

# Street Lighting

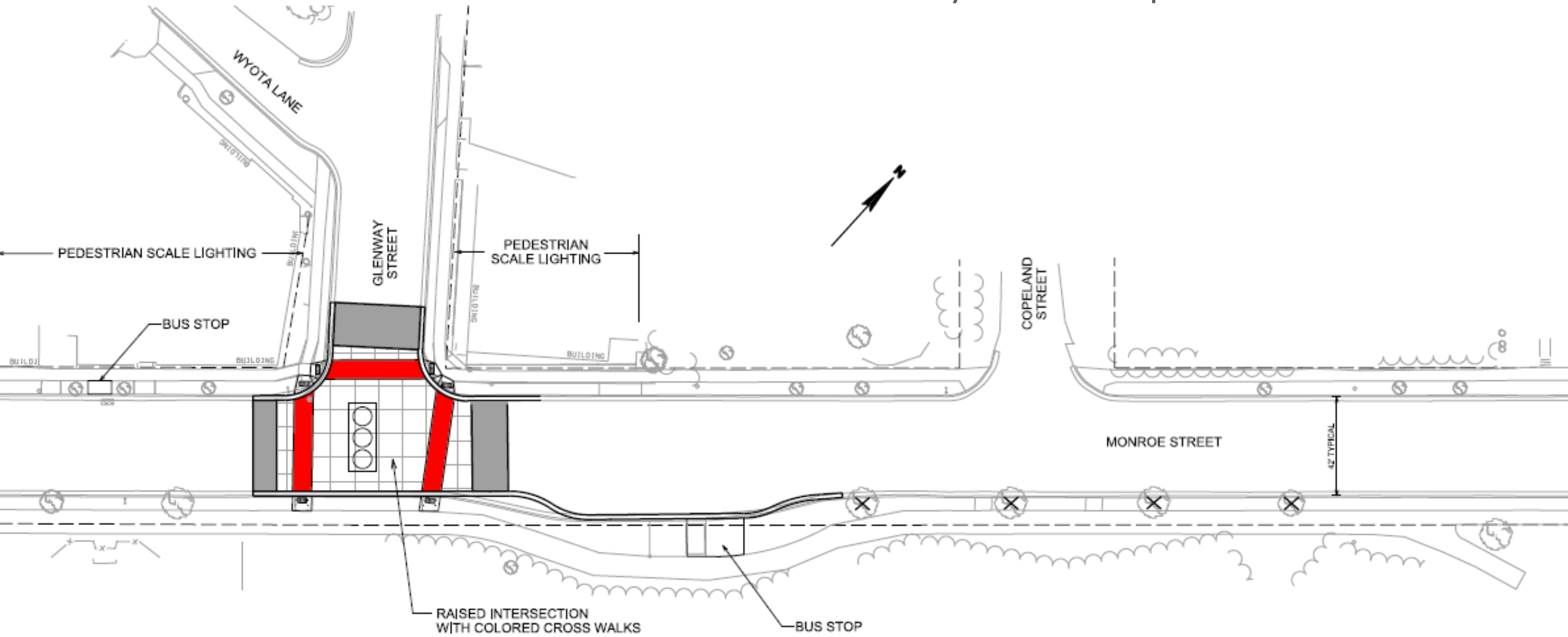
- Install new street lighting throughout corridor
- Pedestrian scale lighting in business districts
  - Prospect to Regent
  - Crandall to east of Commonwealth
  - Lewis Court to east of Glenway
- All intersections will have tall poles and areas without ped lights will have mid-block tall poles



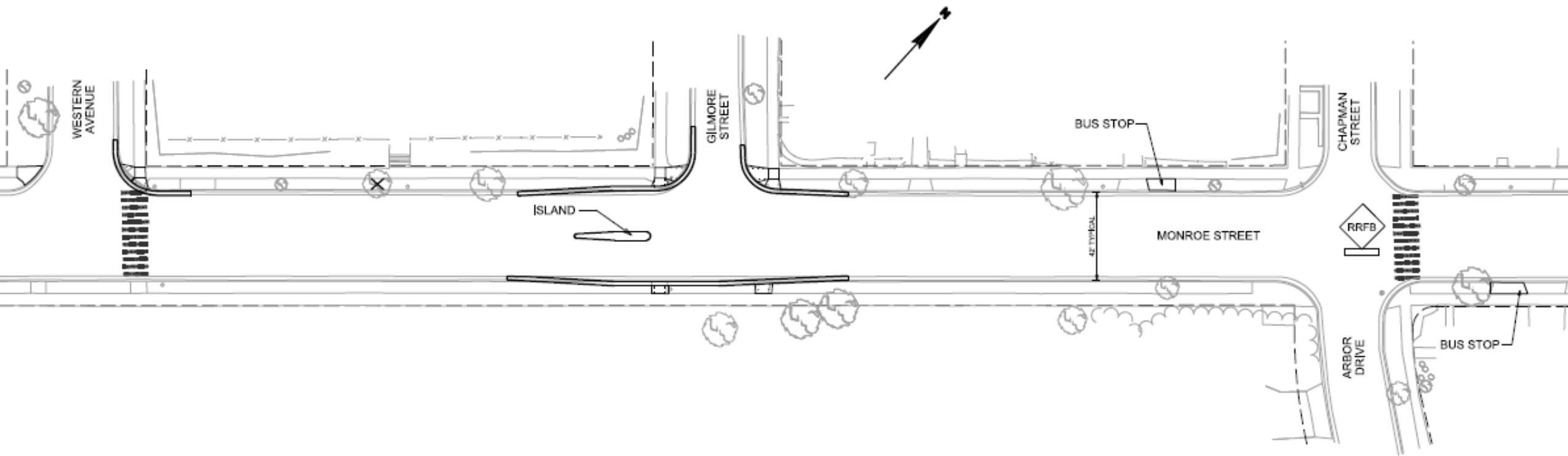


Odana thru Lewis Court

# Glenway thru Copeland

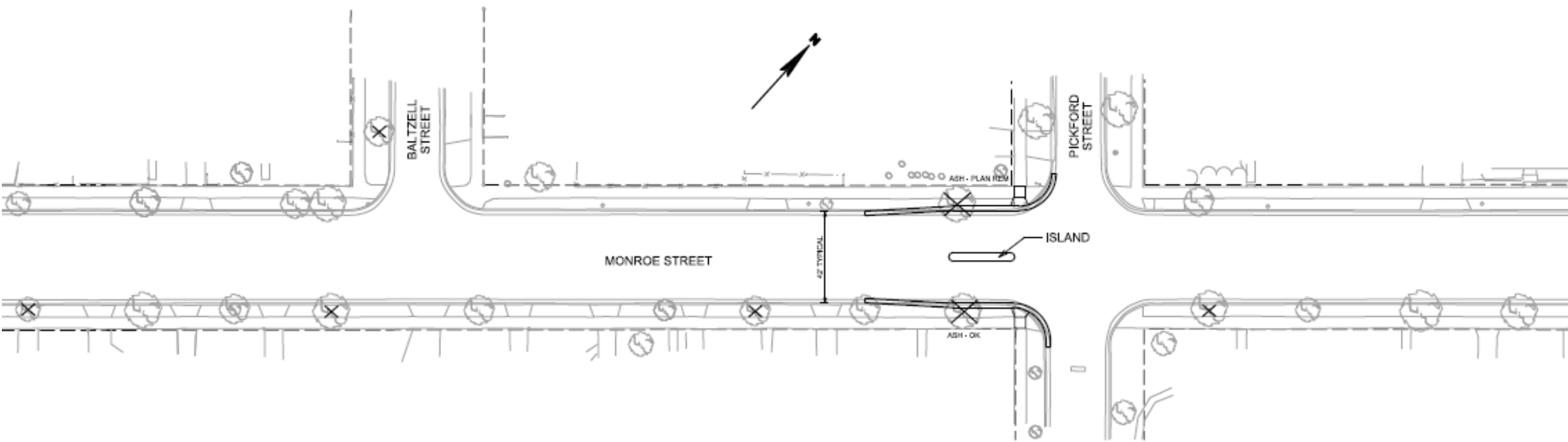


# Western Ave to Chapman

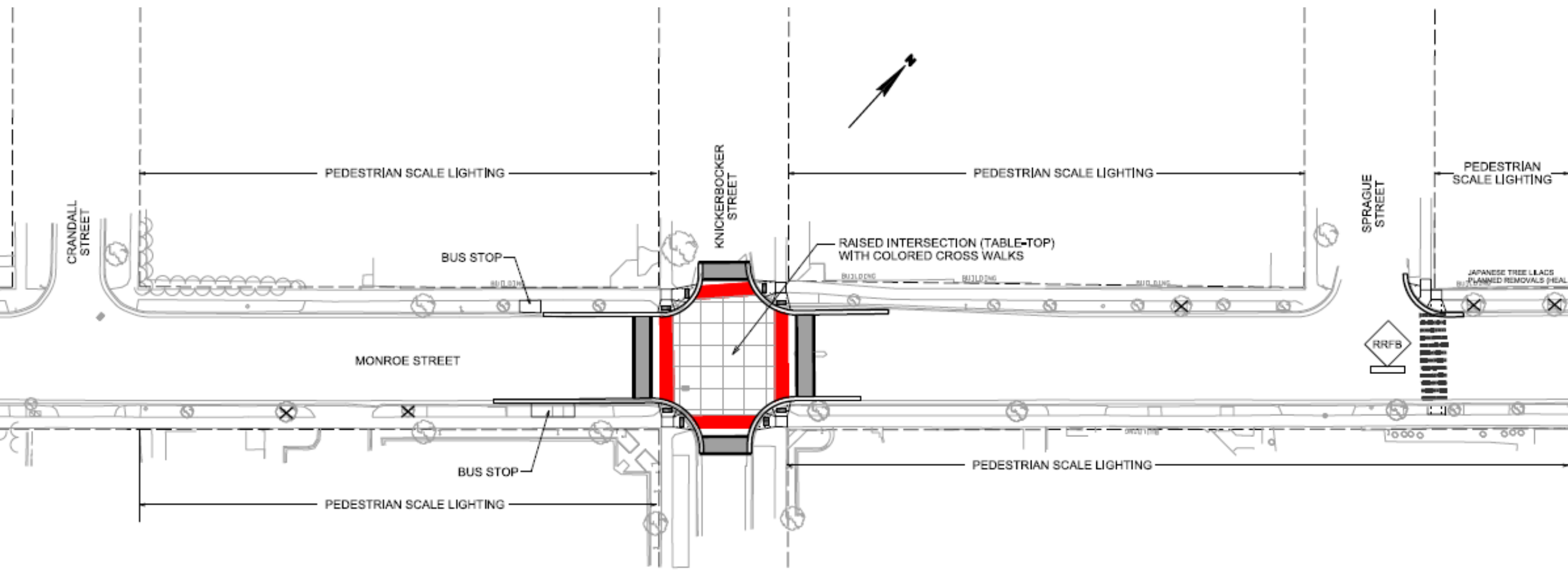




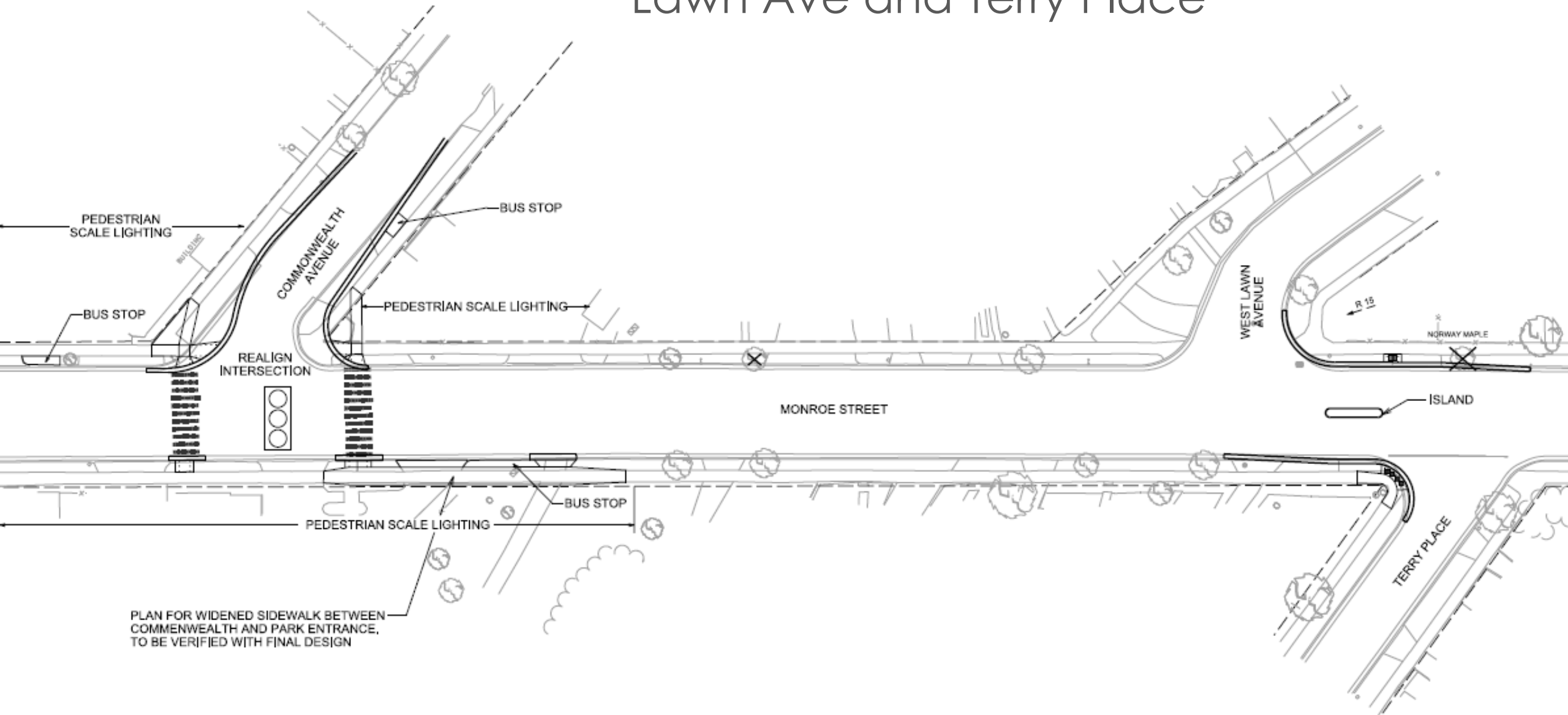
# Baltzell to Pickford



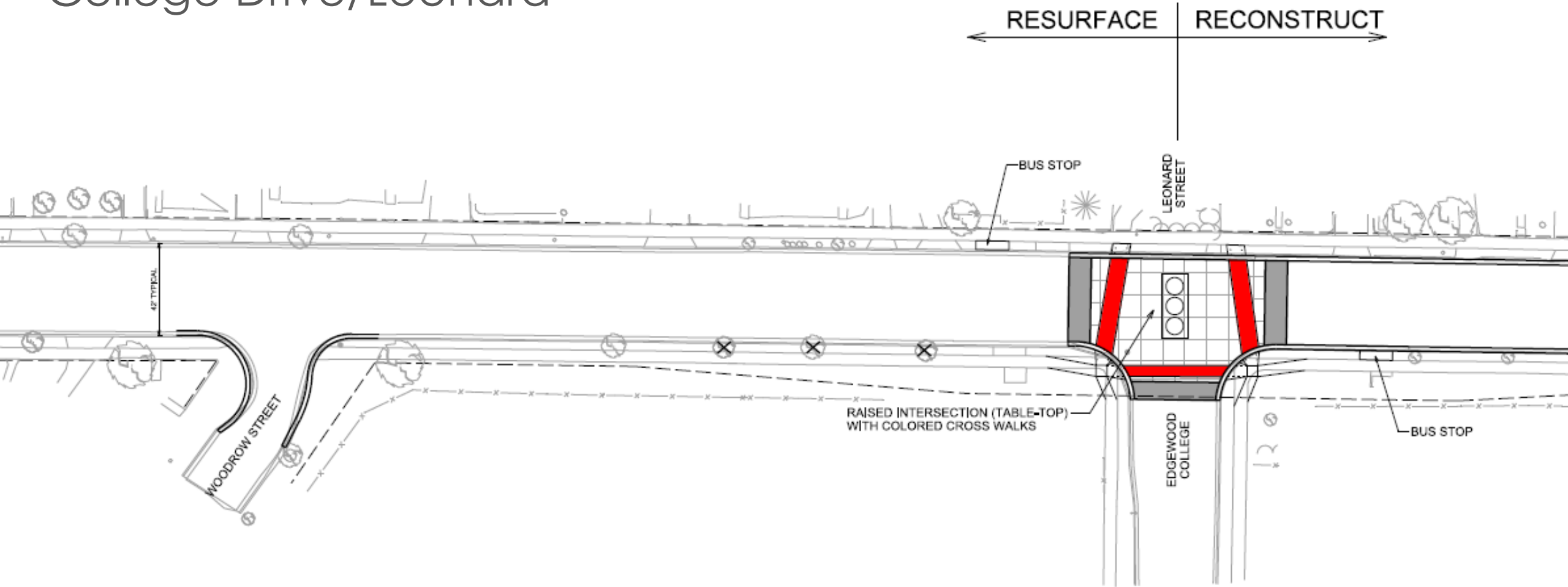
# Crandall to Sprague



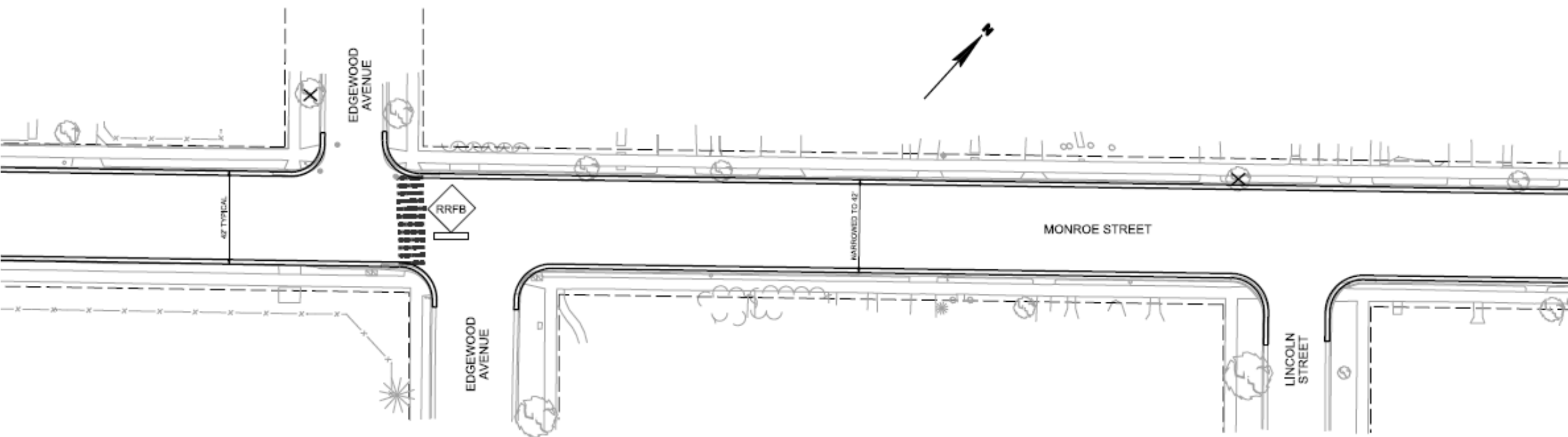
# Commonwealth Ave to West Lawn Ave and Terry Place



# Woodrow to Edgewood College Drive/Leonard

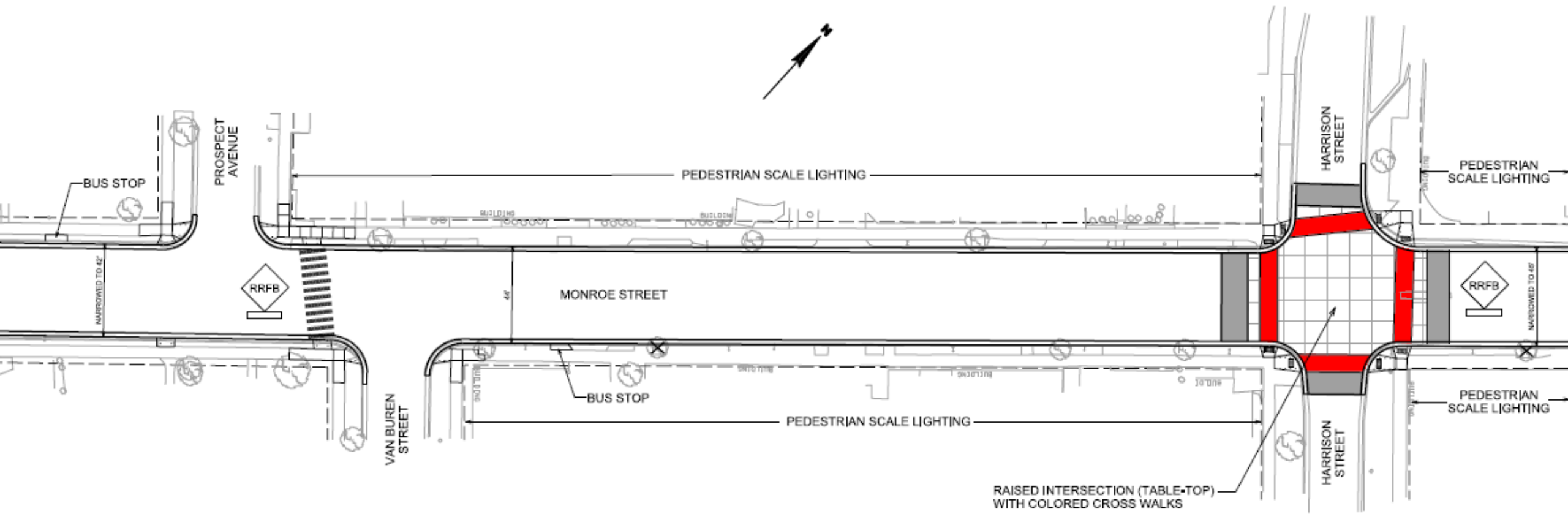


# Edgewood Ave to Lincoln Street

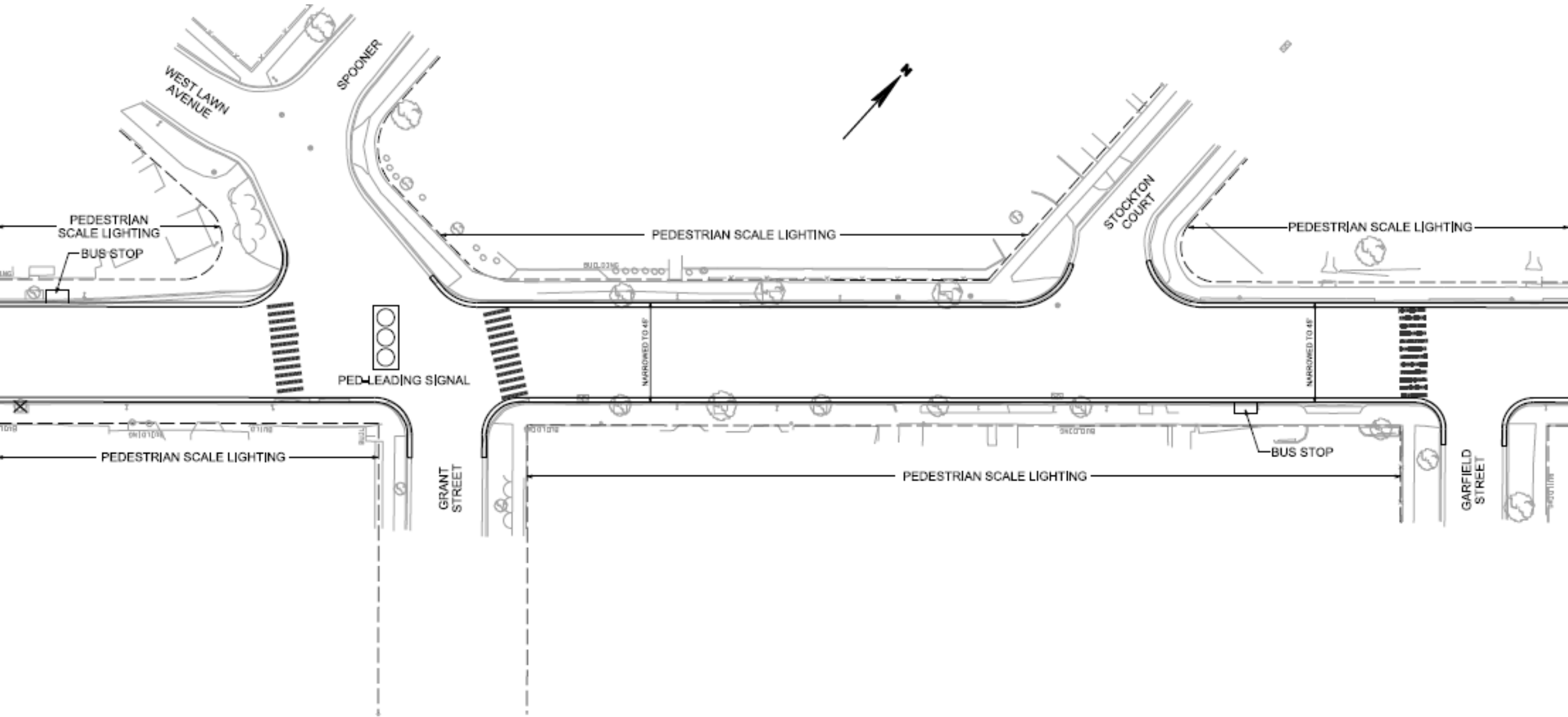




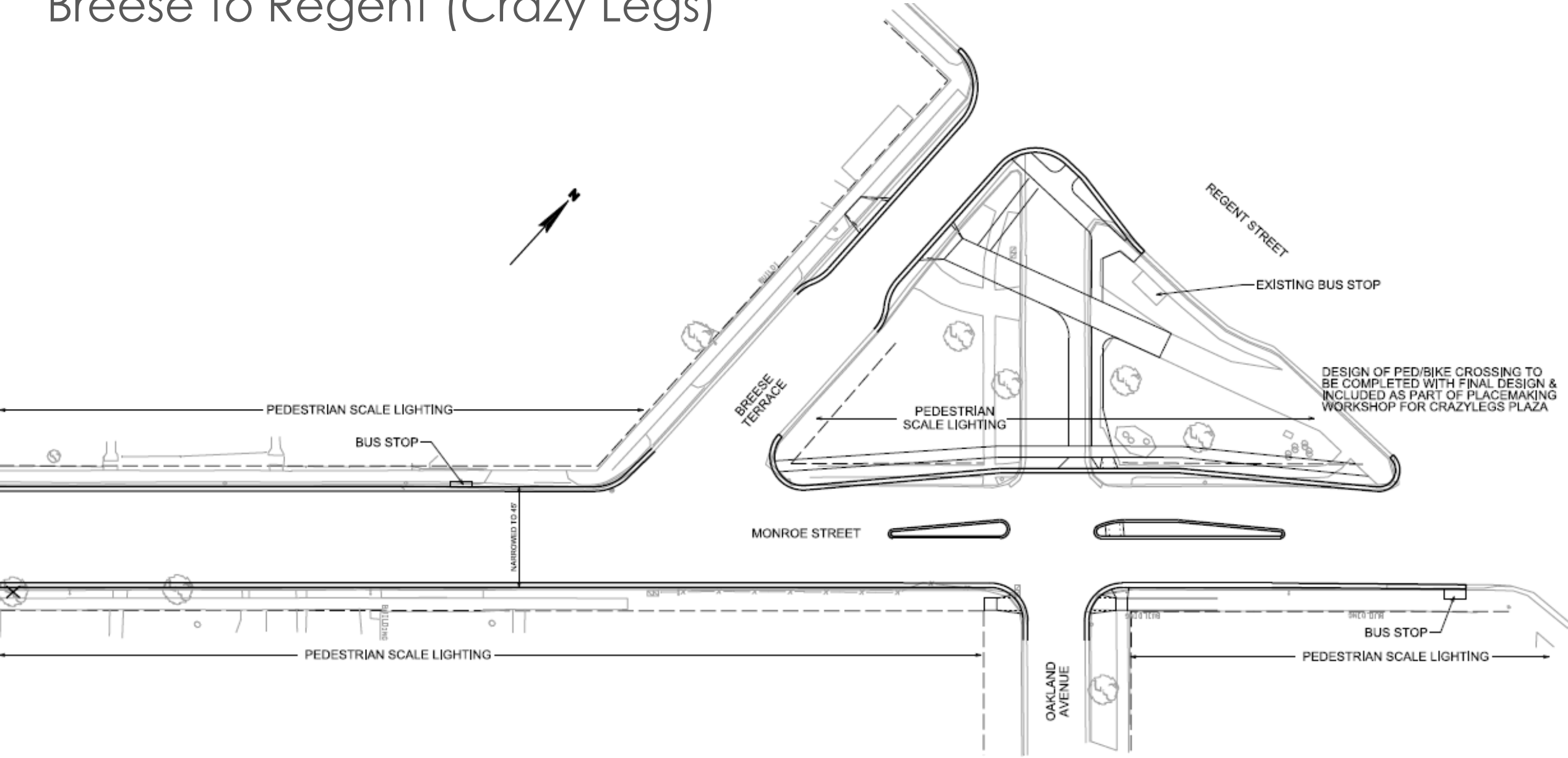
# Prospect Ave to Harrison Street



# Spooner/Grant to Garfield



# Breese to Regent (Crazy Legs)





# Preparing for the Reconstruction

# Utility Work

- Project includes replacement of utilities
- Sanitary sewer main & laterals to property line
  - Existing mains from 1905, 1911, 1922, 1932
- Replace water main & reconnect services
- Replace storm sewer as necessary
- Street light & traffic signal infrastructure
- Coordinate with private utilities
  - Replacement of existing facilities
  - Undergrounding work



# Construction & Access

- Construction expected to last from end of March until early November
- Work hours 7am to 7pm
- Average of 2 planned water shut-offs
  - Minimum 48 hrs notice prior to shut-offs; more notice given when possible
  - Emergency shut-offs possible, notify affected properties ASAP
- One lane of traffic, moving inbound
  - No signed detour planned
  - Metro detoured
- Review final design for possible phasing

# Construction & Access

- No on-street parking during work hours
- Access maintained to all commercial driveways during construction
  - Brief delays when working at each driveway
- Residential driveways closed up to 20 days
- Residents in 2 hour parking zones may apply for free residential parking permits
- Review side streets for suspension of street sweeping parking restrictions

# Construction & Access

- During construction, sidewalks will remain open on at least one side at all times
- Sidewalk access open to all businesses, but may be from only 1 end of block
  - Laterals & concrete work
- Temporary crosswalks installed as necessary

# Trees

- 28 planned tree removals, currently
  - Tree health, preemptive ash removals, traffic island installation
  - Locations to be noted on website & in future mailings
- Additional removals may be necessary as street & utility design is completed
- Tree protection specifications enforced for all trees that are planned to remain
- Review with Forestry for new plantings wherever possible during detailed design

# Assessment Policy

- Project will include assessments to adjacent property owners

Item	Property Owner Share	City Share
Curb and Gutter	50%	50%
Pavement	0%	100%
Replace Sidewalk/Apron	50%	50%
Place Making	0%	100%
Storm Sewer	0%	100%
Private Storm Connections	100%	0%
Sanitary Sewer Main	0%	100%
Sanitary Sewer Laterals	25%	75%
Water main & services	0%	100%
Street Lights (tall poles)	100%	0%
Pedestrian Scale Lighting	100%	0%



# Assessments

- Mail estimated assessments: 9/08/17
- BPW public hearing: 9/20/17
- Common Council public hearing: 10/03/17
- Assessments can be paid in lump sum or over 8 years with 3% interest
- Final assessments will be mailed in the summer of 2019, following the project completion
- Final assessments will be calculated based on bid prices and measured quantities

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Questions?

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Next Steps

# Key Dates: Monroe Street

- **September-October:** Public assessment hearings
  - 9/8: Estimated assessments mailed
  - 9/20: Board of Public Works public hearing
  - 10/3: Common Council public hearing
- **November:** Project out to bid
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## More Information

- All background materials are posted online on the City's Monroe Street Reconstruction project page:  
[www.cityofmadison.com/engineering/projects/monroe-street](http://www.cityofmadison.com/engineering/projects/monroe-street)
  - Subscribe to email updates.
  - Share comments.
- Alder Eskrich, District 13:  
[www.cityofmadison.com/council/district13/](http://www.cityofmadison.com/council/district13/)
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