

Delaware Street Rehabilitation Construction Phase

City Council Meeting



September 16, 2019

SEPTEMBER 10 MEETING RECAP

➤ Decisions

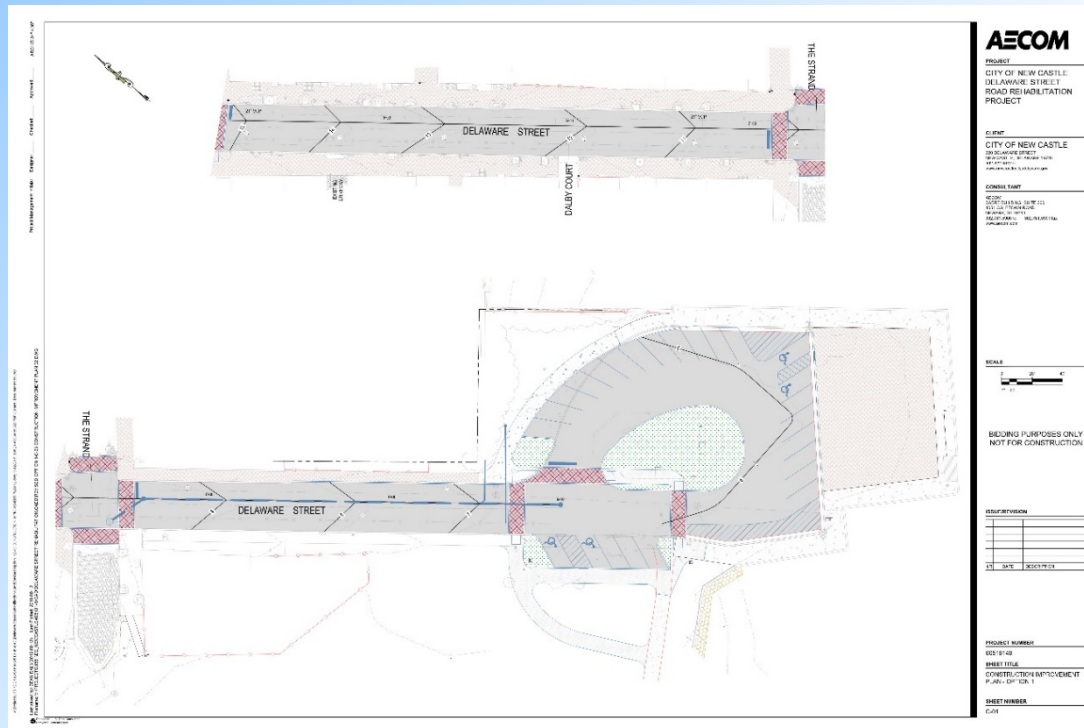
- No Road Widening 2nd Street to Wharf
- No Bump Outs at 3rd Street
- No “platform” crosswalk at The Strand

➤ Still To Be Determined

- Crosswalk material(s)
- Bump Outs at Market and 2nd Streets / Patio at Town Hall
- Scope at Wharf area
- Stormwater management approaches

2nd Street to the Wharf

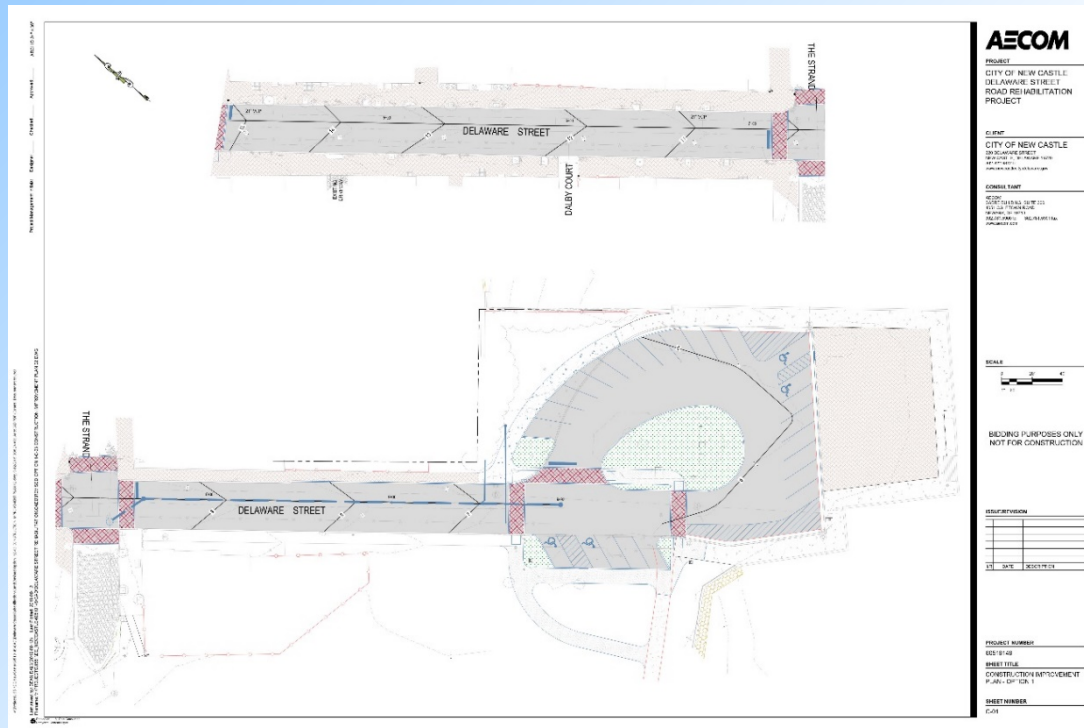
- No Road Widening
 - Deduct Approximately \$50,000 plus reduction in MSC's costs
- Wharf Area
 - Expanded asphalt / additional parking / center island changes



2nd Street to the Wharf

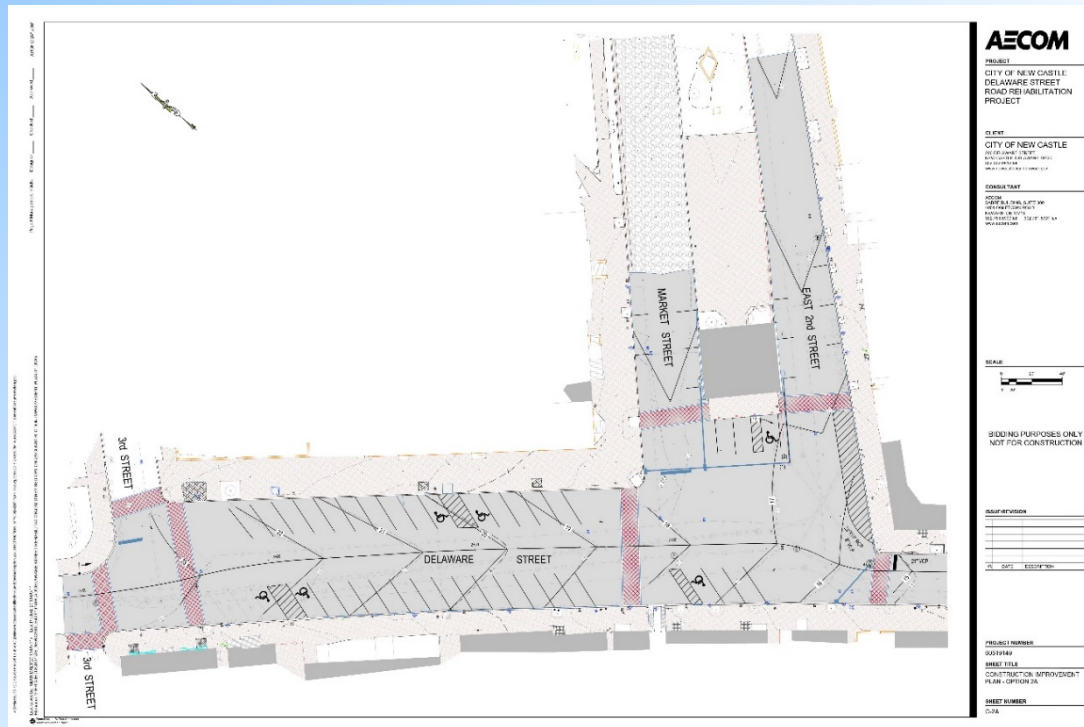
➤ Wharf Area

- Variables (repave?, place sanitary sewer lateral?)
- MSC utilities – one power pole and 6-8 valve boxes



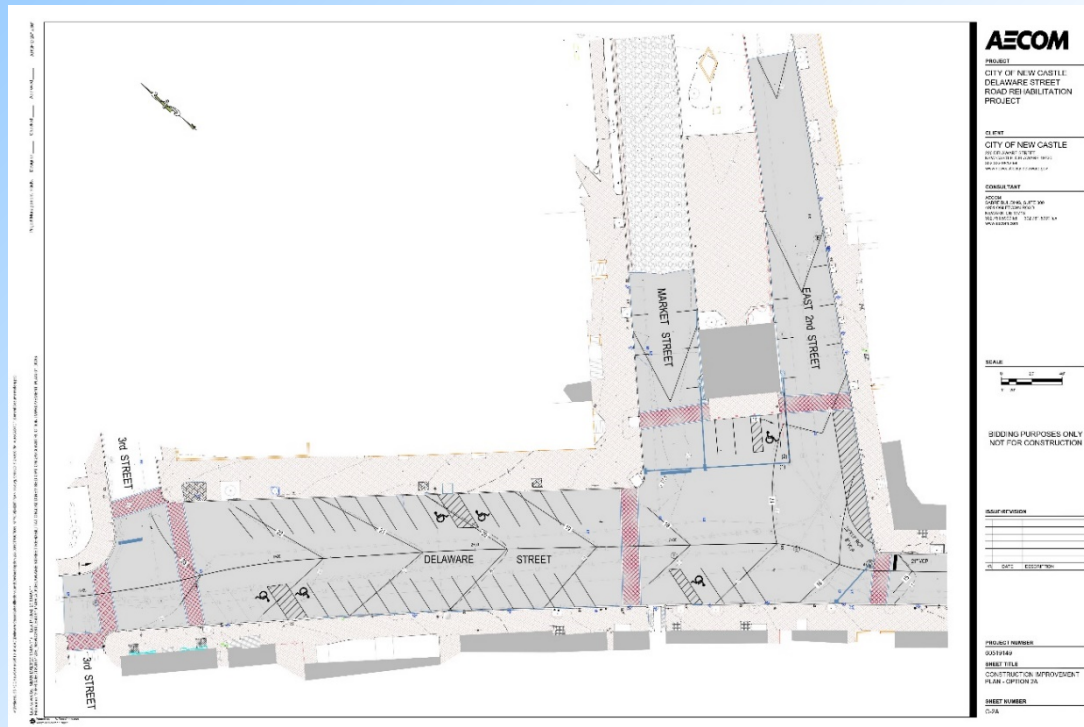
OPTIONS

- No Bump Outs and Extend Crosswalks
 - Reduction in new granite curbs and new brick sidewalks
 - No bioretention for stormwater quality treatment
 - Higher paving costs



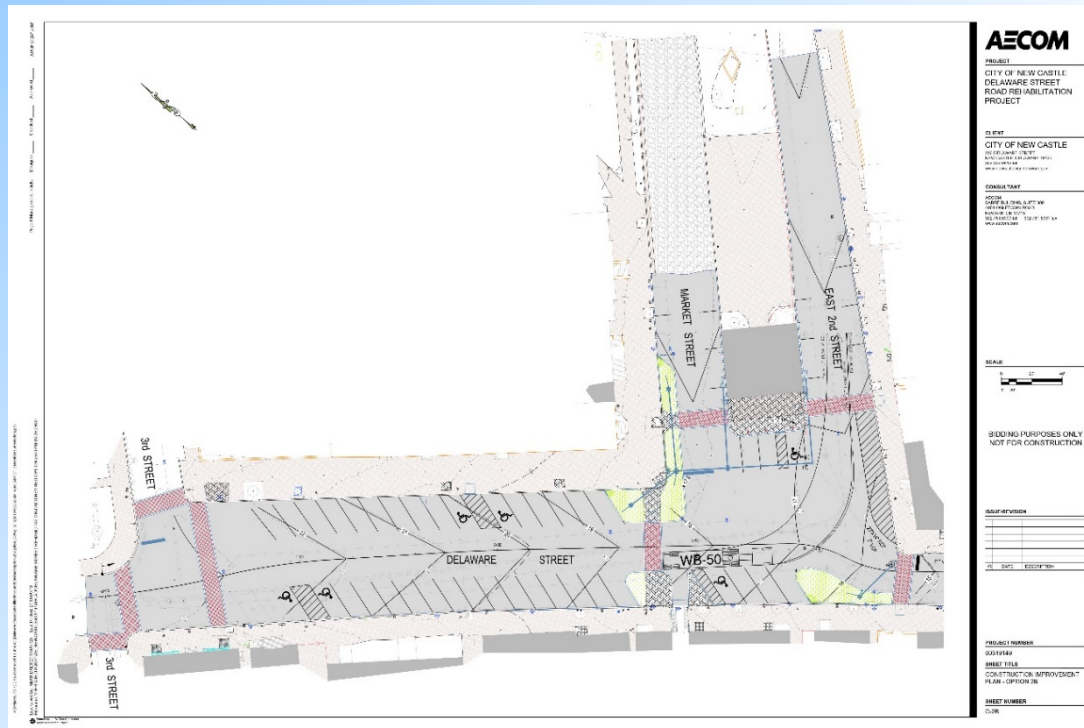
OPTIONS

- No Bump Outs and Extend Crosswalks
 - Deduct varies by crosswalk material type



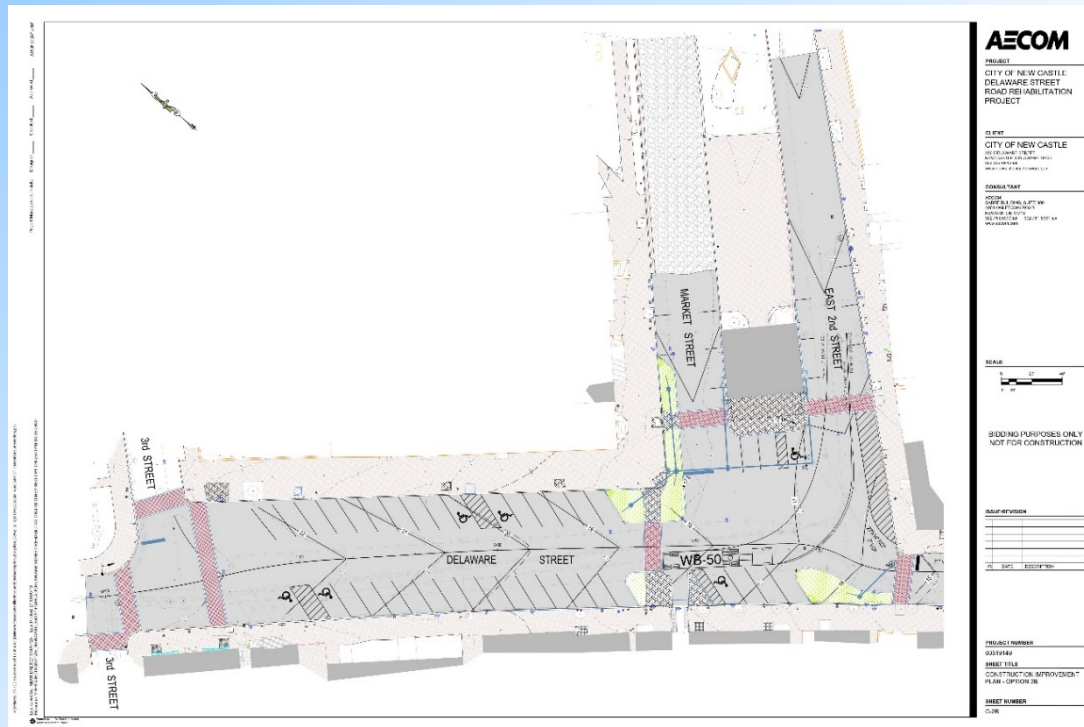
OPTIONS

- Keep Bump Outs at Market and 2nd Streets
 - Reduction in new granite curbs and new brick sidewalks
 - Limited bioretention for stormwater quality treatment
 - Higher paving costs



OPTIONS

- Keep Bump Outs at Market and 2nd Streets
 - Deduct varies by crosswalk material type



STORMWATER PERMIT (NPDES)

- New Castle is Co-permittee under NCC / DeIDOT
- Actions Dictated by SWPP & MP
- Required Programs
 - Coordination and Training
 - Public Education and Involvement
 - Illicit Discharge Detection and Elimination
 - Stormwater Management During Construction
 - Post Construction Stormwater Management
 - Good Housekeeping
 - Industrial Stormwater Control
 - Watershed Priority List
 - Mapping of Stormwater Infrastructure

STORMWATER PERMIT (NPDES)

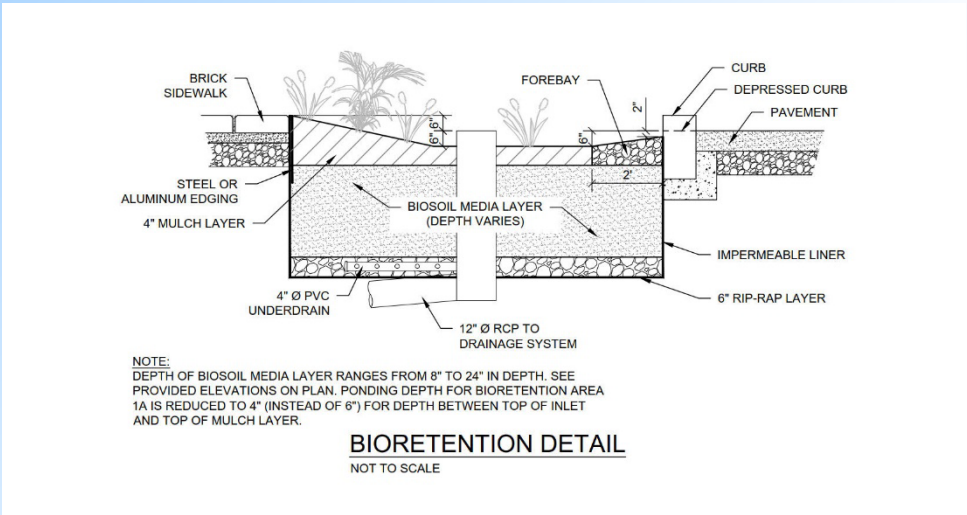
➤ Monitoring Requirements

- Pollutant Minimization Plan for PCBs
- Address Pollutant Load Allocations
- Wet Weather Performance Monitoring Plan

➤ Water Quality Improvement Plans

- At least 3% reduction in untreated effective impervious area
- Accomplished through
 - Improvements resulting from development or redevelopment
 - Retrofitting existing BMPs in need of repair
 - Introduction of new Green Technology BMPs
- Current Focus – Christina River and Dragon Run Basins
- Future Focus – To Be Determined

BIORETENTION APPROACH



BIORETENTION APPROACH



STORMWATER MANAGEMENT OPTIONS

- Current Delaware Street Project
 - Modify existing tree wells / add additional tree wells
 - Install manufactured units
- Other Rights-of-Way
 - Future repaving projects
- Other City-owned Lands
 - 100 Municipal Boulevard
- DNREC Surface Water Matching Planning Grant
 - Next submittal – late fall 2019

CROSSWALK OPTIONS - BRICK

➤ Advantages

- Longevity
- Aesthetics

➤ Disadvantages

- Cost
- Snow plowing issues



CROSSWALK OPTIONS - STAMPED

- Advantages
 - Less expensive than brick
- Disadvantages
 - Shorter lifespan (10+/- years)
 - Aesthetics (potentially)



CROSSWALK OPTIONS - PAINTED

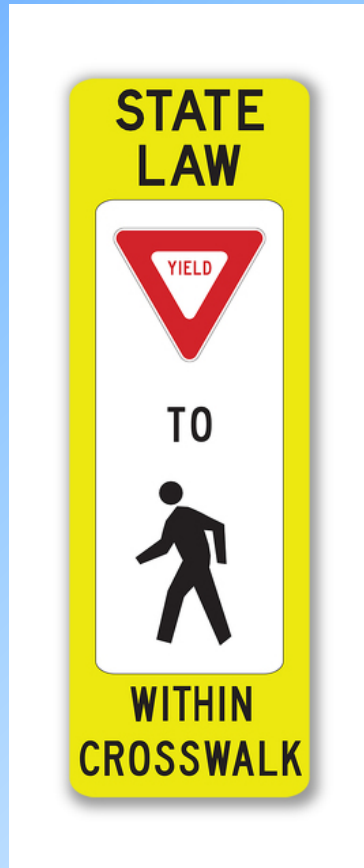
- Advantages
 - Least costly
 - Flexibility in patterns
- Disadvantages
 - Periodic reapplications needed
 - Aesthetics



CROSSWALK OPTIONS - RAISED



CROSSWALK OPTIONS - SIGNAGE



POTENTIAL BID REDUCTIONS

- Base Bid - \$1,850,000* / \$1,950,000**
- Revised Bid Estimate - \$1,800,000 (no widening)
- Approximate Reductions for Crosswalks (w/revised quantity)
 - Brick - \$100,000 - \$150,000
 - Stamped asphalt - \$175,000 - \$200,000
 - Painted - \$225,000 - \$240,000
- Approximate Reduction for Bump Outs at Market and 2nd
 - Curbing and Bioretention - \$130,000
- Approximate Reduction for Keeping Wharf As Is
 - Variables exist - \$50,000 to \$100,000 + MSC costs
- Potential Reductions for Other Items
 - Mobilization, traffic control, etc.

* Rounded

** + \$100,000 +/- for pipe lining

NEED COUNCIL DIRECTION

- Award Contract by October 7 or Will Need to Rebid
- Rebid Approach
 - Place project on hold – plan to begin next spring
 - Redefine scope – structure contract as base with alternates
 - Bid late 2019 or early 2020 – manage conflicts next year
- Award Contract Approach
 - Authorize negotiations with Cirillo Brothers
 - Continue to fine-tune scope
 - Begin work this fall – seek to finish before Separation Day

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