

Delaware Street Rehabilitation

Presentation to City Council



August 14, 2018

OVERVIEW

- Project Underway for Over Two Years
 - Advanced work on underground utilities
 - DNREC grant – stormwater management / “Green Street”
- Current Efforts
 - Additional manhole being placed next couple weeks
 - Further assessing storm (old combined) sewer
 - Replacement / relining storm sewer fall 2018
- Looking Forward
 - Bid rehabilitation project winter 2019
 - Repaving along with curbing, crosswalks, etc. spring 2019

CURRENT CONDITIONS

Pavement cracks and failures

Multiple road patches



CURRENT CONDITIONS

Deteriorated curb and varying types



CURRENT CONDITIONS

Inconsistent presence of handicap ramps



CURRENT CONDITIONS

Lengthy pedestrian crosswalks

Lack of crosswalks



CURRENT CONDITIONS

Uncontrolled vehicular circulation



CURRENT CONDITIONS

Need to better manage stormwater



GREEN STREET APPROACHES

MID-BLOCK STORMWATER BUMPOUT
GREEN STREETS



STORMWATER TREE
GREEN STREETS



STORMWATER PLANTER
GREEN STREETS



OPPORTUNITIES

- Proactively plan improvements / develop vision
 - Manage runoff through more innovative methods
 - Lessen reliance on existing aging inlets and pipes
 - Include dual-purpose islands, bump-outs, circles, etc.
 - Provide safer travel by automobiles, pedestrians, cyclists, etc.
 - Reinforce Delaware Street as focal point of City
 - Serve as showpiece / example for other cities and towns

VEHICULAR CONTROL OPTIONS



Framing the Edges

VEHICULAR CONTROL OPTIONS



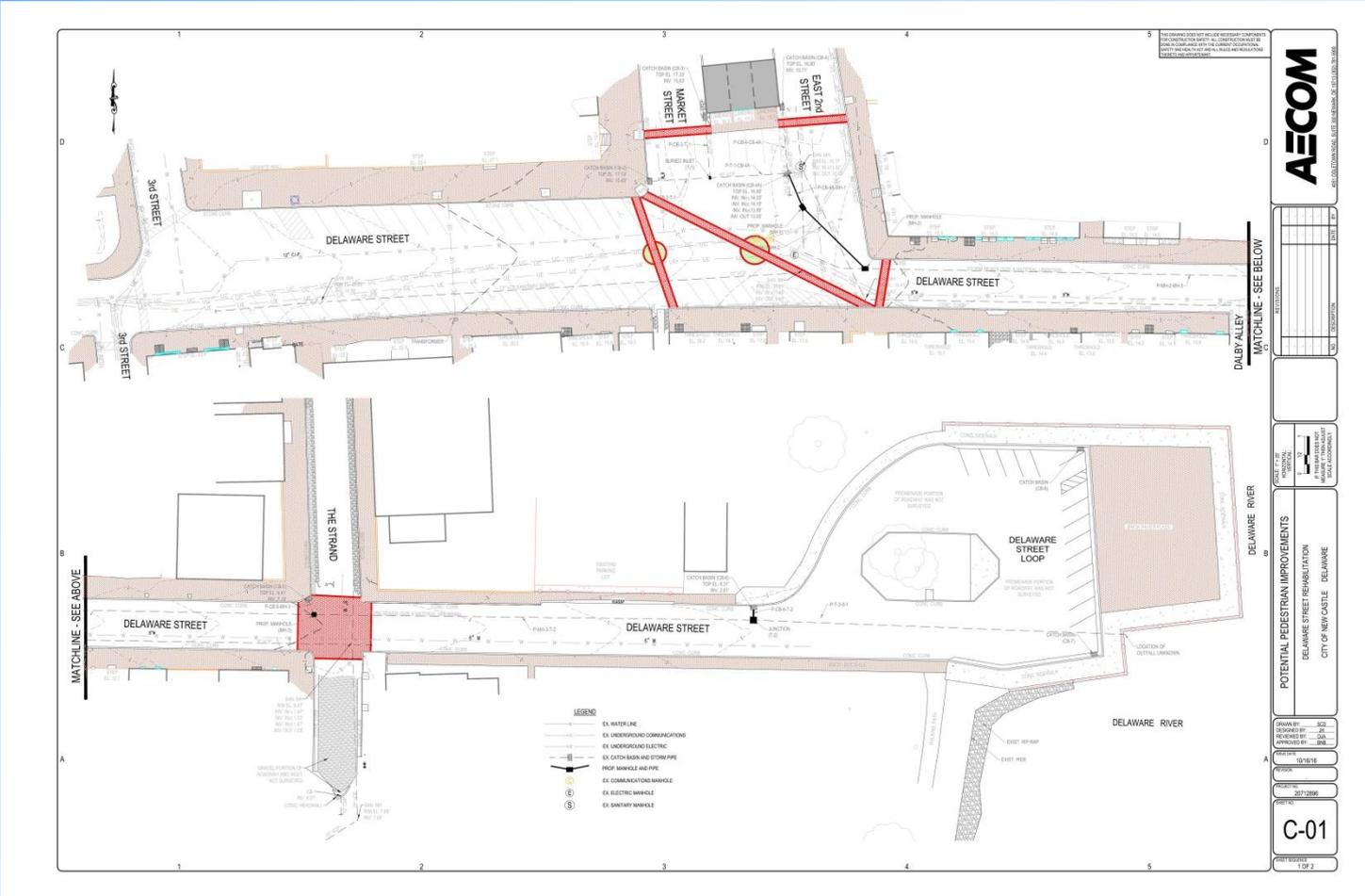
Monumental Rotary

VEHICULAR CONTROL OPTIONS

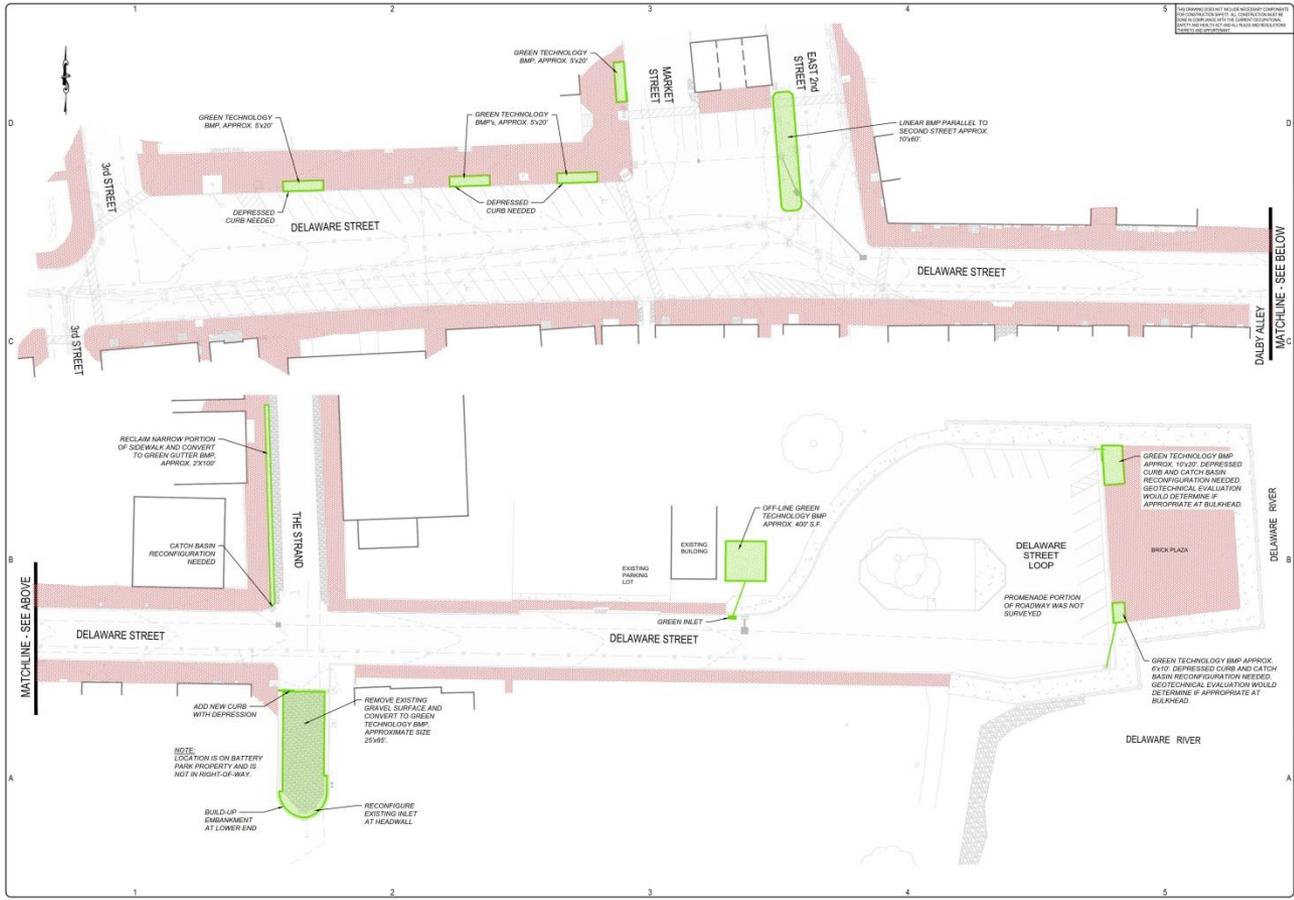


Creating a New Space

PEDESTRIAN SAFETY IMPROVEMENTS



GREEN INFRASTRUCTURE



AECOM
400 ELECTRA DRIVE, SUITE 2000, WESTFIELD, MA 01095

NO.	DESCRIPTION	DATE

SCALE: 1" = 10'-0"

POTENTIAL BMP'S PLAN
DELaware STREET REHABILITATION
CITY OF NEW CASTLE, DELaware

DRAWN BY: ASD
CHECKED BY: JAL
REVIEWED BY: JAL
APPROVED BY: SBL

DATE: 10/18/18

PROJECT NO.: 2017-2808

SHEET NO.: 1

PEDESTRIAN AND VEHICULAR CIRCULATION IMPROVEMENTS



STREETSCAPE IMPROVEMENTS



GREEN STREET COMPONENTS



GREEN STREET EXAMPLE



DISCUSSION

- Which Amenities, if any, Should Be Incorporated
 - Vehicular circulation control
 - Pedestrian safety
 - Stormwater management
 - All the above – integrated approach