

Public Information Meeting

State Project No. 33-130 Rehabilitation of Bridge No. 03523 Route 3 (Shunpike Road) Over Route 9 Cromwell, Connecticut

Wednesday, March 5, 2014 at 7:00 pm
Town Hall Room No. 244/5
41 West Street
Cromwell, Connecticut





Project Location Map





Introductions

- Connecticut Department of Transportation
 - David A. Cutler – Transportation Supervising Engineer
 - Andrew Cardinali – Project Engineer

- CME Associates, Inc.
 - Jacob Argiro – Director Project Management Services
 - Donald Wurst – Senior Project Manager
 - Ricky Mears – Project Engineer



Department's Role

- Systematically inspect bridges for deficiencies and schedule the rehabilitation of structures
- Oversee the development of technical drawings and bid documents on projects
- Administration and inspection during construction



Project Needs and Goals

- Rehabilitation of bridge to extend service life
- Improve roadway ride-ability for traveling public
- Maintain/provide a safe crossing of Route 9 for vehicles and pedestrians
- Minimize disturbance for the traveling public during construction



Project Overview

- Project is in preliminary engineering stage
 - We are looking for your input
- Rehabilitation of bridge to repair deteriorated elements
- Preventive maintenance to ensure extended service life



Route 3 Over Route 9 Bridge

- Built in 1967
- Reinforced concrete deck supported on built up steel plate girders and rolled beams
- Substructure consists of reinforced concrete abutments and piers





Route 3 Over Route 9 Bridge

Bridge No. 03523



Existing Geometry

- Route 3 (Shunpike Road) over Route 9
- (5) spans, total bridge length of 512'
- Bridge width = 46'-0" (curb to curb)
- Carries (2) NB lanes, (1) SB lane, and (2) shoulders
- Inspection safety-walks along each side of roadway

Existing Conditions

- Deck: "6" Satisfactory
- Superstructure: "4" Poor
- Substructure: "5" Fair
- Paint: "3" Serious
- Structure Evaluation: "4" Poor
- Annual Daily Traffic: 10,600 vehicles on bridge



Route 3 Over Route 9 Bridge





Route 3 Over Route 9 Bridge





Route 3 Over Route 9 Bridge





Route 3 Over Route 9 Bridge





Route 3 Over Route 9 Bridge





Route 3 Over Route 9 Bridge

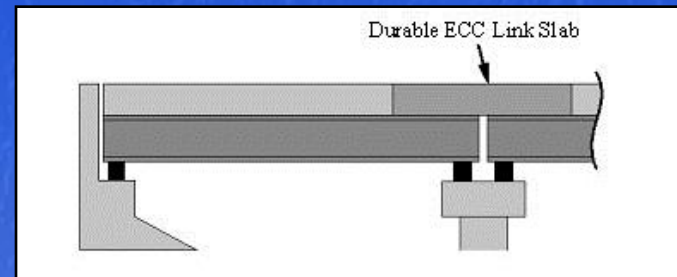
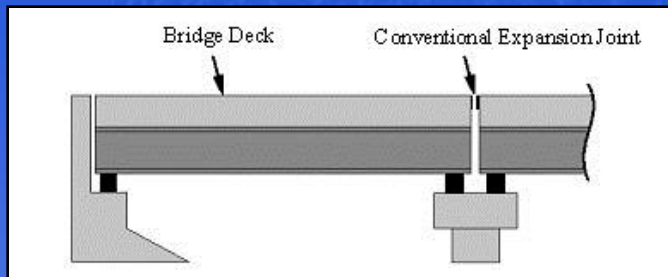




Route 3 Over Route 9 Bridge

Proposed Rehabilitative Measures

- Remove existing finger joints over piers 1 & 4
- Install link slabs over piers to eliminate deck joints



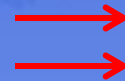
- Replace asphaltic plug decks joints at the abutments with new strip seal deck joints
- Install approach slabs to accommodate new strip seal joints



Route 3 Over Route 9 Bridge

Proposed Rehabilitative Measures

- Patch top side and repair underside of deck concrete
- Replace bridge deck overlay and waterproofing membrane
- Replace all bearings





Route 3 Over Route 9 Bridge

Proposed Rehabilitative Measures

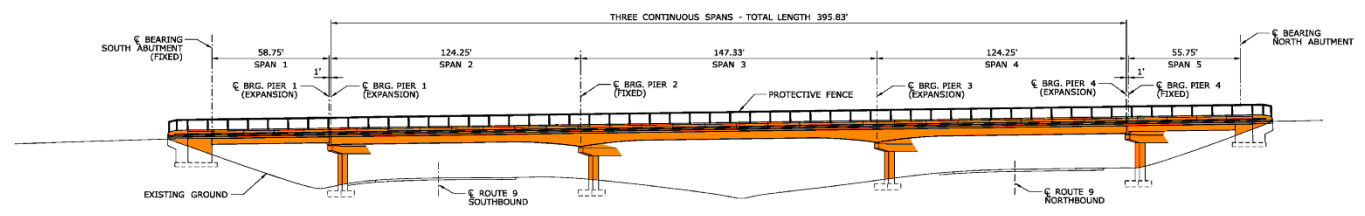
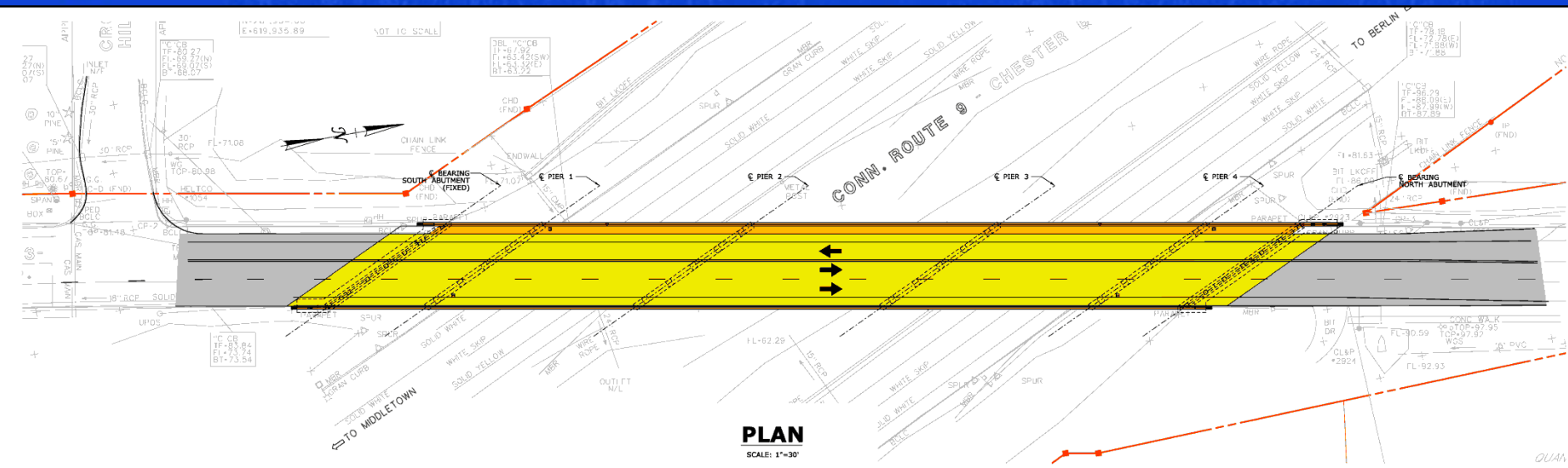
- Repair steel members and repaint the steel superstructure



- Modify concrete parapets
- Install a new sidewalk and pedestrian fences
- Repair substructure units



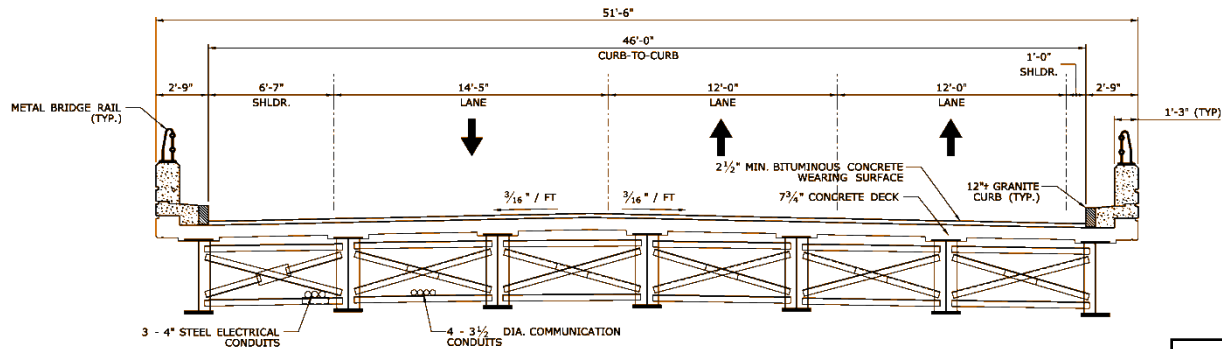
Route 3 Over Route 9 Bridge



- LEGEND:**
- PROPOSED PAVEMENT
 - EXISTING BRIDGE
 - PROPOSED SIDEWALK
 - UNDISTURBED PAVEMENT
 - PROPERTY LINES



Route 3 Over Route 9 Bridge

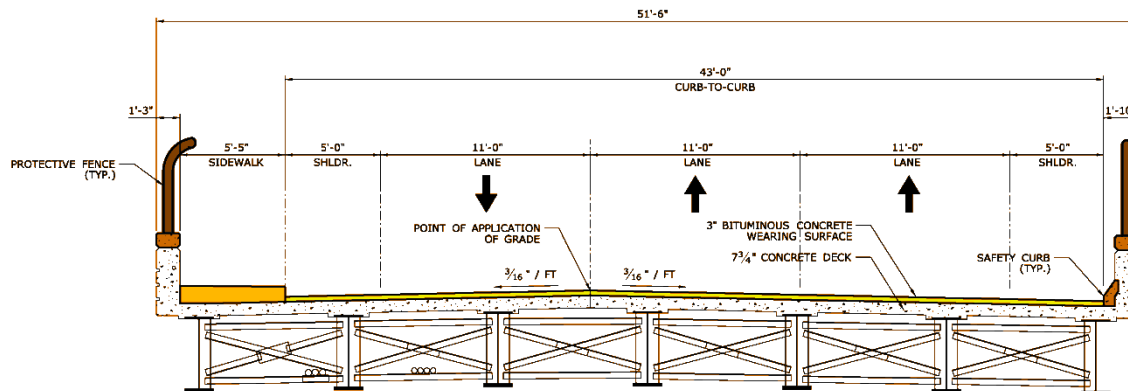


EXISTING SECTION

SCALE: 1/8"=1'-0"

LEGEND:

- PROPOSED PAVEMENT
- PARAPET MODIFICATION
- PROPOSED SIDEWALK
- PROTECTIVE FENCE

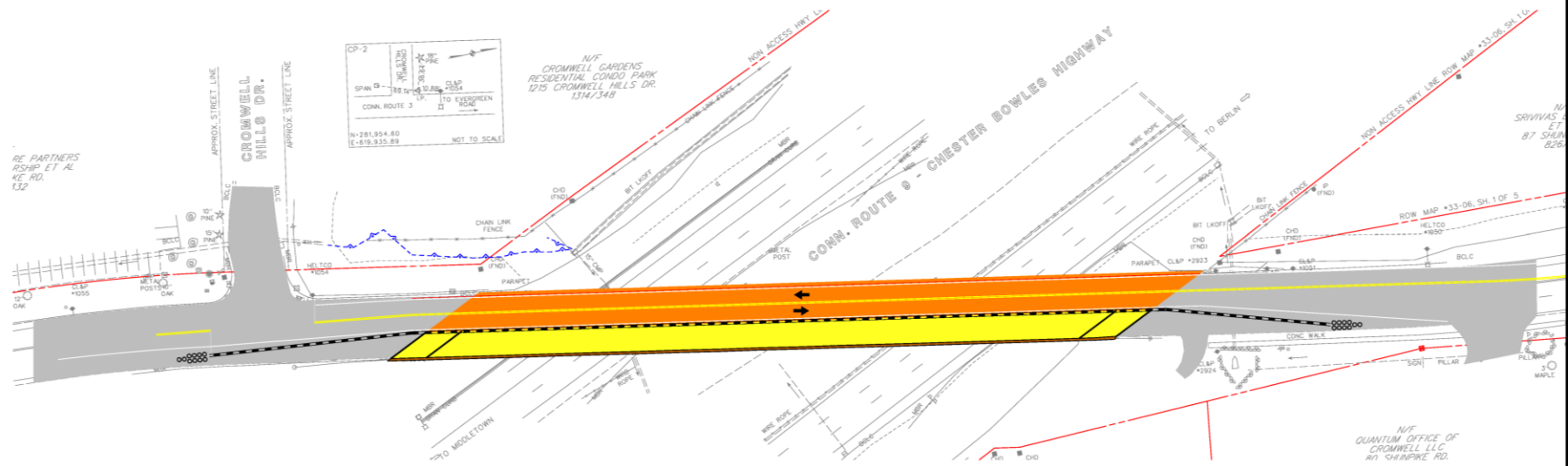


PROPOSED SECTION

SCALE: 1/8"=1'-0"

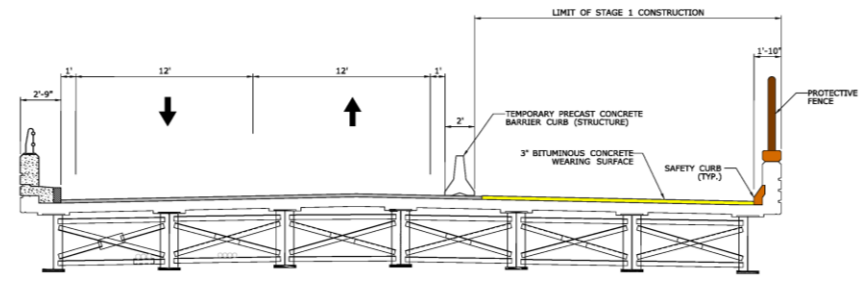


Stage 1 Construction



STAGE 1 PLAN
SCALE: 1" = 40'

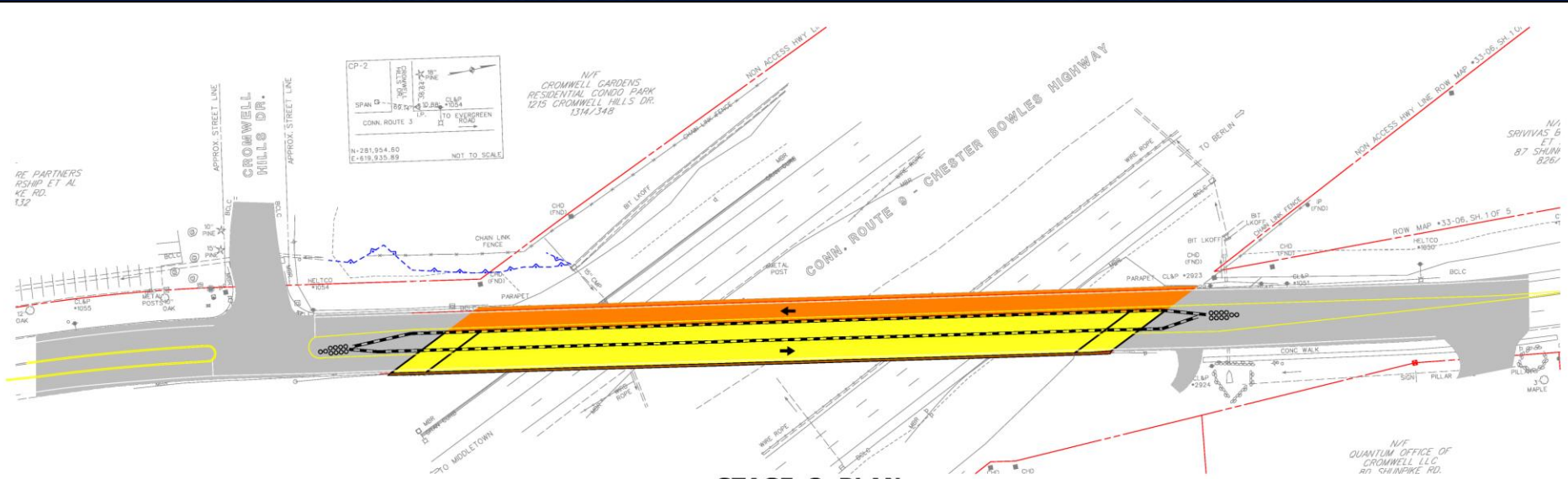
- LEGEND:**
- PROPOSED PAVEMENT
 - EXISTING BRIDGE
 - PARAPET MODIFICATION
 - PROPOSED SIDEWALK
 - UNDISTURBED PAVEMENT
 - PROTECTIVE FENCE
 - PROPERTY LINES
 - TEMP. PRECAST CONC. BARRIER CURB



STAGE 1 SECTION
SCALE: 1/8" = 1'-0"



Stage 2 Construction

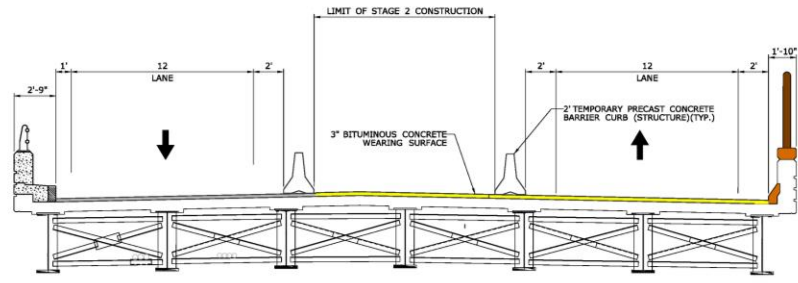


STAGE 2 PLAN

SCALE: 1"=40'

LEGEND:

- PROPOSED PAVEMENT
- EXISTING BRIDGE
- PARAPET MODIFICATION
- PROPOSED SIDEWALK
- UNDISTURBED PAVEMENT
- PROTECTIVE FENCE
- PROPERTY LINES
- TEMP. PRECAST CONC. BARRIER CURB

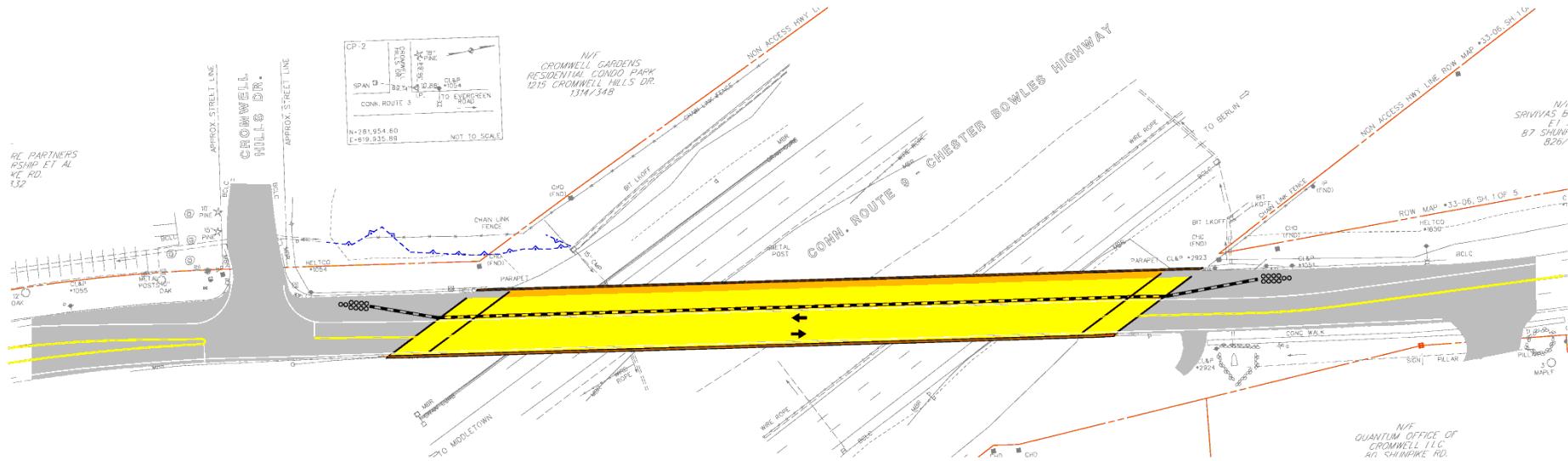


STAGE 2 SECTION

SCALE: 3/4"=1'-0"



Stage 3 Construction

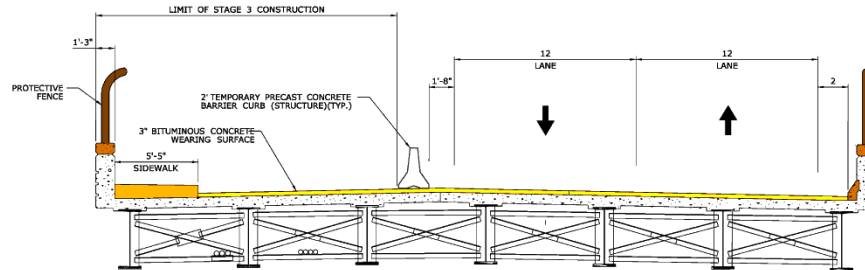


STAGE 3 PLAN

SCALE: 1"=40'

LEGEND:

- PROPOSED PAVEMENT
- EXISTING BRIDGE
- PARAPET MODIFICATION
- PROPOSED SIDEWALK
- UNDISTURBED PAVEMENT
- PROTECTIVE FENCE
- PROPERTY LINES
- TEMP. PRECAST CONC. BARRIER CURB



STAGE 3 SECTION

SCALE: 3/8"=1'-0"



Right of Way Impacts

Anticipated Impacts to Private Properties:

- Work is to remain within the State's ROW
- Impact limited to traffic flow alterations to accommodate staged construction



Project Cost

- Construction cost for this project is currently estimated at approximately \$9,300,000
- The rehabilitation of this bridge will be undertaken using State Funds under the "Fix-It-First" program



Project Schedule

- Construction Start: Spring of 2015
- Completion: Summer 2016
- The schedule is preliminary and is subject to change



Contact Information

Thank You Questions and Comments

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