

Public Information Presentation

Manchester – January/February 2019

**Interstate 384 over Folly Brook
Rehabilitation of Bridge No. 06650
State Project No. 076-222**



Connecticut Department of Transportation



CTDOT & Consultant Engineers

CTDOT

Division of Bridges

Theodore H. Nezames, P.E.

Rabih M. Barakat, P.E.

Louis D. Bacho, P.E.

Susan L. Morneault



BL Companies

Consultant Liaison Engineer

Jennifer J. Usher, P.E.

Andy P. Puhlick, E.I.T



PRIME AE Group, Inc.

Design Consultant

State Project No. 076-222

Panos Oikonomou, S.E. | P.E.





**Bridge No. 06650
Interstate 384 over
Folly Brook**

Aerial View of Bridge No. 06650

Connecticut Department of Transportation



Existing Bridge Description

Bridge No. 06650

Existing Culvert

- 120-inch diameter asphalt-coated corrugated metal pipe (ACCMP).

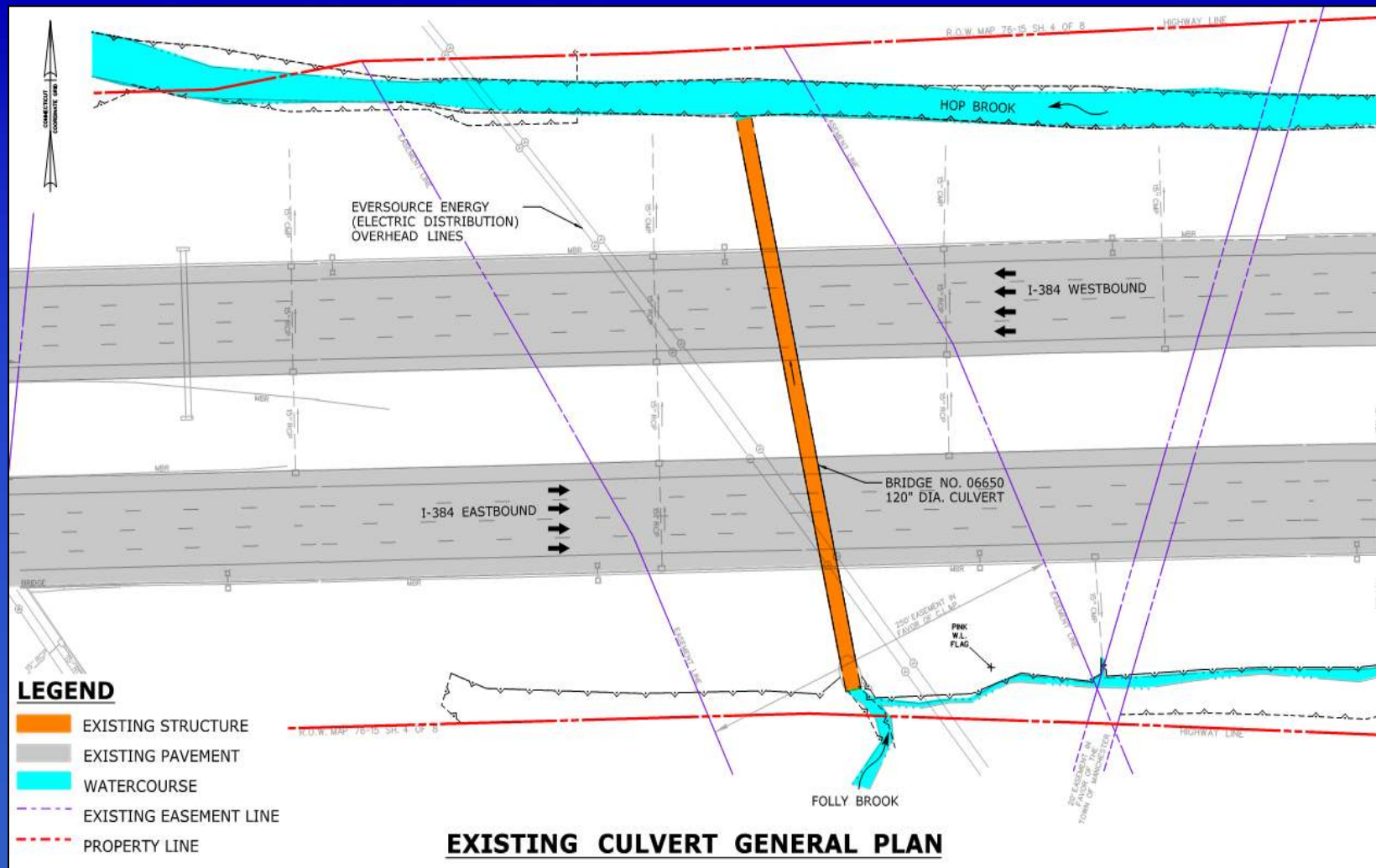


Existing Bridge Description

Bridge No. 06650

- **Bridge No. 06650 was built in 1970.**
- **Culvert is approximately 362-feet long and crosses underneath Interstate 384 eastbound and westbound.**
- **Interstate 384 is an eight-lane, urban principal arterial, interstate highway with a posted speed limit of 65 mph.**
- **Estimated Average Daily Traffic (ADT) is approximately 59,800 vehicles (2015 Traffic Log).**
- **Existing eastbound and westbound roadways have a curb-to-curb width of 68 feet each.**





Existing Bridge Plan

Bridge No. 06650

Connecticut Department of Transportation





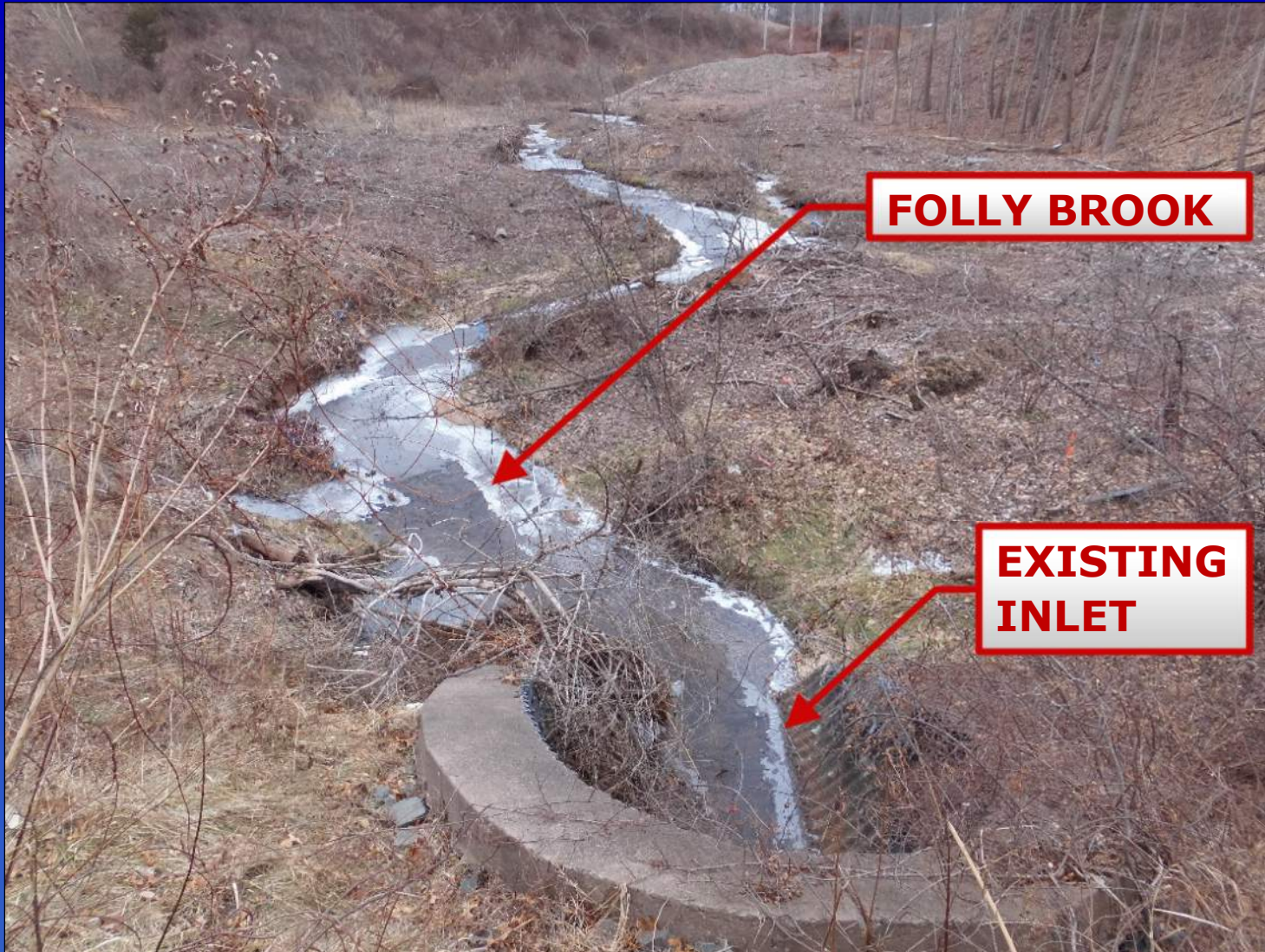
**EXISTING
CONCRETE
COLLAR**

**EXISTING
120" CULVERT**

Inlet Elevation
Bridge No. 06650

Connecticut Department of Transportation





FOLLY BROOK

**EXISTING
INLET**

Upstream from Bridge
Bridge No. 06650

Connecticut Department of Transportation





**EXISTING
120" CULVERT**

Outlet Elevation

Bridge No. 06650

Connecticut Department of Transportation





HOP BROOK

**EXISTING
OUTLET**

Downstream from Bridge
Bridge No. 06650

Connecticut Department of Transportation



Project Purpose

Bridge No. 06650

The existing pipe needs to be rehabilitated due to pipe deterioration, section loss, and joint separation.

JOINT SEPARATION



**RUST &
DETERIORATION**

Connecticut Department of Transportation

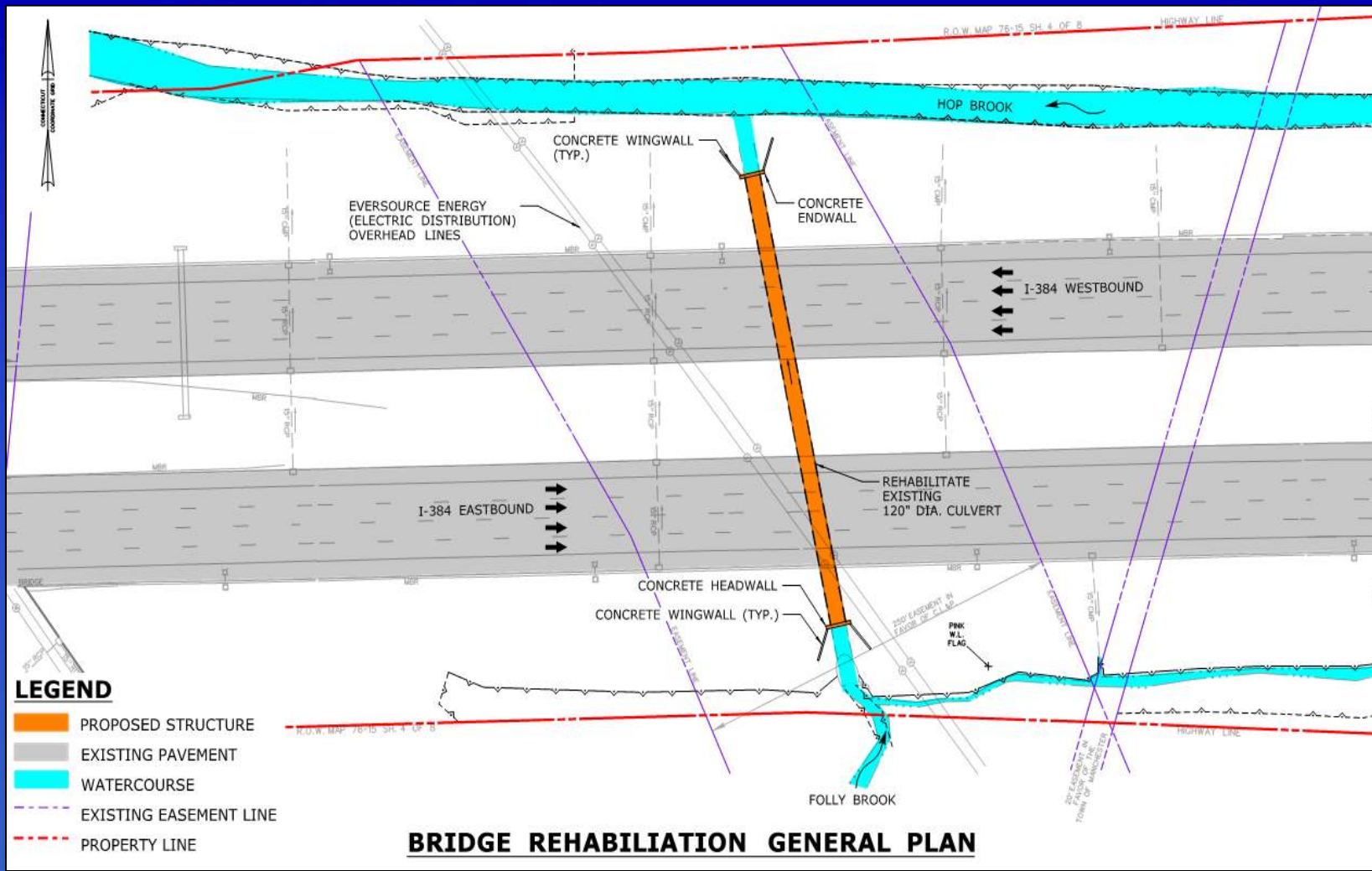


Proposed Construction

Bridge No. 06650

- **Clean existing culvert to remove loose debris and corroded material.**
- **Install a new cast-in-place, reinforced concrete invert within the existing 120-inch ACCMP.**
- **Grout hollow voids between the existing pipe and surrounding earth.**
- **Remove 20-feet of pipe length from the inlet and outlet to install new reinforced concrete headwalls and wingwalls.**

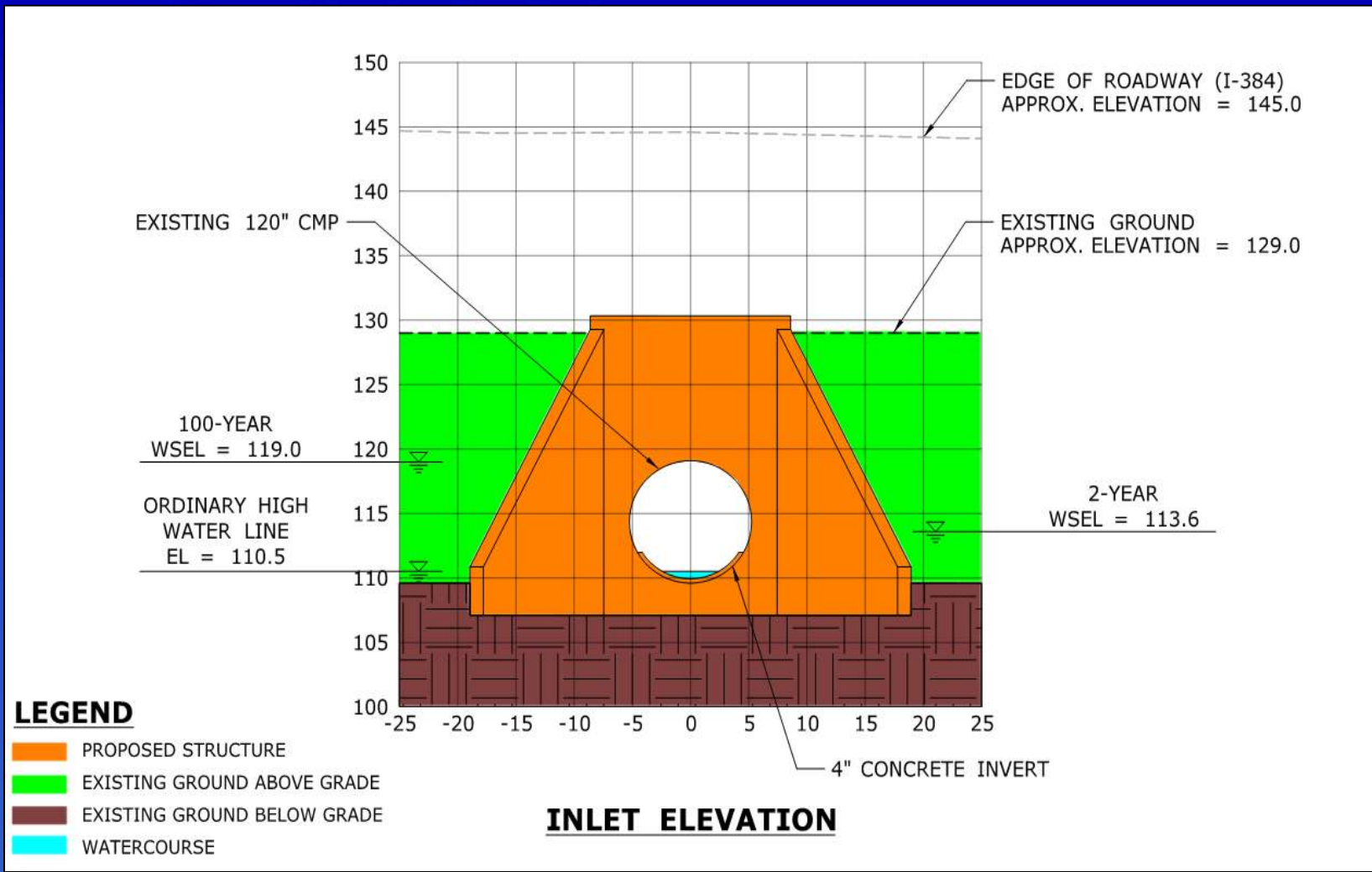




Proposed Bridge Plan *Bridge No. 06650*

Connecticut Department of Transportation

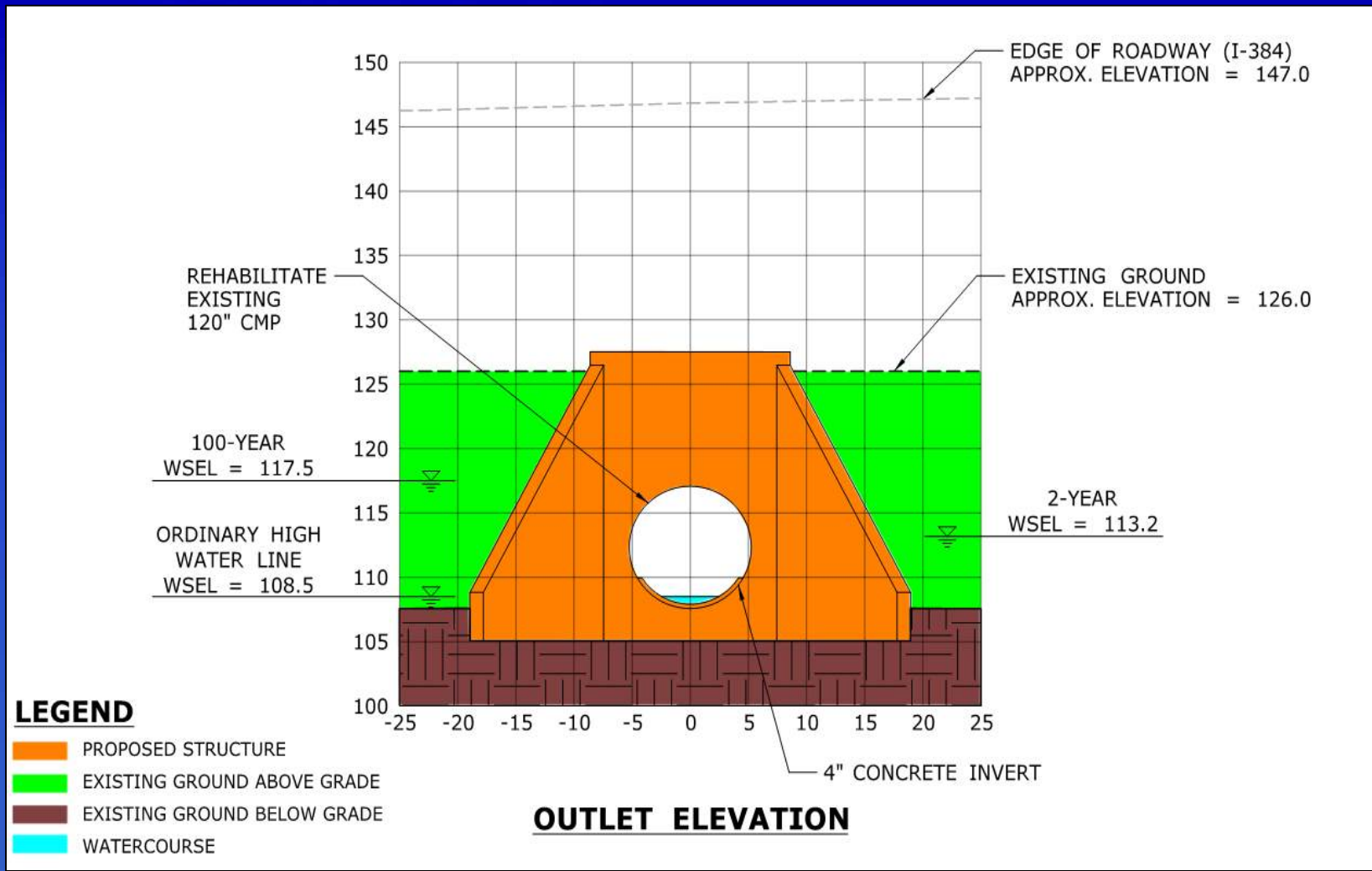




Proposed Inlet Elevation *Bridge No. 06650*

Connecticut Department of Transportation





Proposed Outlet Elevation *Bridge No. 06650*

Connecticut Department of Transportation



Maintenance and Protection of Traffic

Bridge No. 06650

- **Four lanes of traffic in each direction on Interstate 384 are expected to be maintained at all times during the rehabilitation of Bridge No. 06887.**
- **Right shoulders may be closed to facilitate access and egress to temporary access roads.**



Anticipated Environmental Permits

Bridge No. 06650

It is anticipated that the following environmental permits will be required:

- **US ACOE – Pre-Construction Notification (PCN)**
- **CT DEEP – Flood Management Certification**
- **CT DEEP – 401 Water Quality (CT PGP Addendum)**
- **CT DEEP – Inland Wetlands General Permit**



Public Utilities

Bridge No. 06650

- **Eversource Energy (Electric Distribution) has existing facilities in the project vicinity.**
- **CTDOT will coordinate construction activities with Eversource Energy. It is not anticipated that their facilities will be affected by construction.**



Project Costs & Schedule

Bridge No. 06650

- **Estimated Cost: \$2,100,000**
- **Funding: Federal (80%) and State (20%)**
- **Construction is anticipated to begin in the spring of 2021.**
- **Anticipated construction duration is approximately 6 months.**
- **Schedule is preliminary and is predicated upon the availability of funding, the issuance of the requested environmental permits, and the resolution of any and all utility coordination.**



THANK YOU

Please send comments to

DOT.Project.0076_0222@ct.gov

Connecticut Department of Transportation



Contact Information

- **CT DOT**

**Mr. Louis D. Bacho, P.E.
2800 Berlin Turnpike
Newington, Connecticut 06131-7546
(860) 594-3212**

- **BL Companies**

**Ms. Jennifer J. Usher, P.E.
100 Constitution Plaza, 10th Floor
Hartford, Connecticut 06103
(860) 249-2200**

- **DOT.Project.0076_0222@ct.gov**

- **<https://ct.gov/dot/FollyBrook>**

