

## Utility Review Meeting - Report Of Meeting

### **West Main Street Bridge – Rehabilitation for Pedestrian Use Stamford, CT.**

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**Date of Meeting:** September 14, 2018

**Location of Meeting:** Stamford City Hall  
Engineering Conference Room, 7<sup>th</sup> Floor  
888 Washington Boulevard  
Stamford, CT.

**Time:** 10:00 AM to 11:00 AM

**Attendees:** See separate sign-up sheet for attendees and phone numbers. The following entities were represented.

- City of Stamford (City)
- WMC Consulting Engineers (WMC)
- Eversource Gas (EG)
- Frontier Communications (FC)
- Aquarion Water (AW)

**Absent:** Eversource Electric  
Cable

**Attachments:** Sign In Sheet (1 Page)  
Existing & Proposed Cross Sections (1 Page)

#### **Activity & Discussion:**

**Project Presentation:** Jay Costello (WMC) and Zvonko Barisic (City) provided a short description of the proposed work, which is summarized as follows.

The existing truss bridge is on the list of historic structures but is in poor condition and continues to deteriorate rapidly. The original wood sidewalks, which are outside of the steel trusses, have been closed and pedestrians now use the center portion of the bridge which has been closed to vehicular traffic for many years. While the bridge is currently open to pedestrians use (only), it is in jeopardy of being closed completely if repairs are not made in the very near future.

Significant portions of the existing west abutment and center pier are failing and are being monitored for future (flood) damage by the City; temporary “gangways” have been installed to span over these failed areas. The outer 6 feet or so of existing steel floor beams, which cantilever outboard of the trusses and currently support utility mains, utility ducts and the old wood sidewalk, are deteriorated beyond repair and need to be removed. As a result, utilities now supported by these cantilevered sections of the floor beams are in danger of losing their structural support and need to be relocated. The repair strategy presented at the meeting requires utilities to all be relocated inside of the trusses. See attached bridge sections.

Construction is estimated to take 8 -10 months. It is the City’s current intention to investigate installation of a separate temporary pedestrian bridge during construction.

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Funding to rehabilitate the existing bridge for use as a pedestrian walkway has been obtained but requires rapid execution with bidding expected to be in April 2019 and construction starting later in 2019.

#### **Discussion & Issues:**

##### **1) Facilities**

Frontier Communications – Exactly what facilities are being carried on the bridge currently was not completely known but it appears there are at least 12-14 four inch ducts which carry significant copper and fiber optic communication facilities. FC stated that relocating these inside of the trusses would likely require significant splicing of existing facilities and could take up to 2 years to complete. The City reiterated that their schedule calls for the bridge rehabilitation work to be bid in April 2019 and construction to start immediately upon contractor selection. FC agreed to investigate and respond to the City with exactly what facilities are being carried on the bridge and what can reasonably be expected in terms of accommodating the City's project and time schedule. The City agreed to investigate the possibility of attaching cable conduits to the outside of the trusses to avoid splicing.

FC also has a series of 4" ducts encased in concrete that runs under the river bottom about 70' to 80' south (downstream) of the bridge. This bank will not be impacted by the project work so these facilities were not discussed in any detail.

Eversource Gas – EG has one 6" ductile iron low pressure gas main which comes out of the abutments at each end of the bridge and then angles up and over to brackets mounted all along the entire length of the south (downstream) side of the abandoned wood sidewalk. EG reported that they are currently executing a project further east on West Main Street and once that project is completed (targeted for this fall), the 6" gas main on the bridge can be isolated and temporarily put out of service for the duration of construction. EG proposes to install a new 6" gas main on the bridge during the proposed bridge work.

Aquarion Water – The current project survey shows a 12" water main angling across the river from the intersection of Greenwood Hill Street and Mill River Street to the upstream end of the central pier and then passing through the east abutment about 15' from the north end. No water main is known to be supported on the bridge and WMC reports that there is apparently a pipe visible in the stream bed between the pier and the east abutment which passes through the abutment at the approximate location as shown on the current survey plan. While the 12" size of the water main is likely correct, AW did not think the location was accurate, but will investigate and report back to the City on the type, size and location of its facilities within the project area.

Also, AW would like to put a new 12" main back on the bridge, so the proposed work will need to accommodate a 16" sleeve (with insulation). Also, the 25' spacing between floor beams is too long for supporting their main. The support spacings cannot be reduced so some form of additional support (such as an "I" beam) will be required to span from one floor beam to the next.

Sanitary Sewer – None known to cross the river on the existing bridge or in the stream bed.

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Eversource Electric – No representative for power line utilities was present at the meeting and no information was provided for the meeting.

- 2) **Removal & Relocation Costs** – This is a City funded project and funds are extremely limited, therefore costs of removal, relocation and/or replacement of existing utilities will be the responsibility of the respective utility owners. The City will coordinate with the various utilities to accommodate attachment and support of utilities on the bridge, however Utility owners should include the cost of providing and installing utility supports, brackets and attachments in their expected costs.
- 3) **Hazardous Materials** - All facilities at the site are quite old and the chances are high that original construction materials used for conduits, insulation, pipe, etc. may be materials that are now considered hazardous so each utility owner will be responsible for determining the existence of hazardous material in the existing facilities and taking proper measures to protect workers and dispose of these materials during removal or relocation of their facilities.
- 4) **Temporary Pedestrian Bridge** – The City is contemplating installation of a temporary pedestrian bridge to minimize the time, complexity and cost of construction. None of the utility owner representative present expressed a need for relocation to this temporary bridge if it were to be installed.
- 5) **Emergency Contingency Plan** – The City presented to the representatives for the various utilities, pictures of the failures of the existing abutment and pier failures, as well as the significant deterioration of the existing floor beams which support their facilities. The City explained that it is initiating its own preparedness plan for closing the bridge prior to large storm events, as well as monitoring afterwards. The City also expressed its concern (due to the poor condition of the existing bridge) regarding the need for each utility owner to also have an emergency preparedness plan for responding to a failure (partial or otherwise) of the bridge or the utilities supported on the bridge.
- 6) **Resulting Actions and Activities:**

Frontier Communications - Agreed to investigate the details of their existing facilities in the project area, as well as what their needs will be for facilities to be supported on the bridge in the future and the estimated weight of these facilities, and provide this information to the City by 09/30/18.

Aquarion Water - Agreed to investigate the details of their existing facilities in the project area, as well as what their needs will be for facilities to be supported on the bridge in the near future and the estimated weight of these facilities, and provide this information to the City by 09/30/18.

Eversource Gas – Agreed to provide more detail on scheduling of current gas main project and potential work on isolating their facilities at the bridge.

City - Agreed to pull utility information currently on file for the project area and email it to all parties in attendance. *Note that the City sent what they had on file to attendees in two separate emails on 09/14/18 (electric, gas and telephone) and 09/24/18 (water).*

WMC – Agreed to investigate the possibility of supporting (mounting) Frontier’s communication ducts on the outside of the trusses rather than on the floor beams just inside the trusses.



**WMC**

CONSULTING ENGINEERS

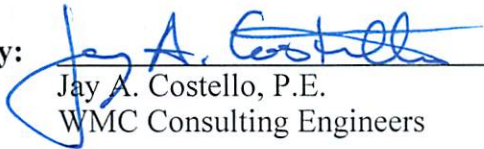
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Stamford, CT.**

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WMC - Agreed to provide structural detail, as soon as the field measurements are taken and structure details have been developed for the existing/proposed floor beams and trusses, so that attachment details can be prepared and provided by the utility owners.

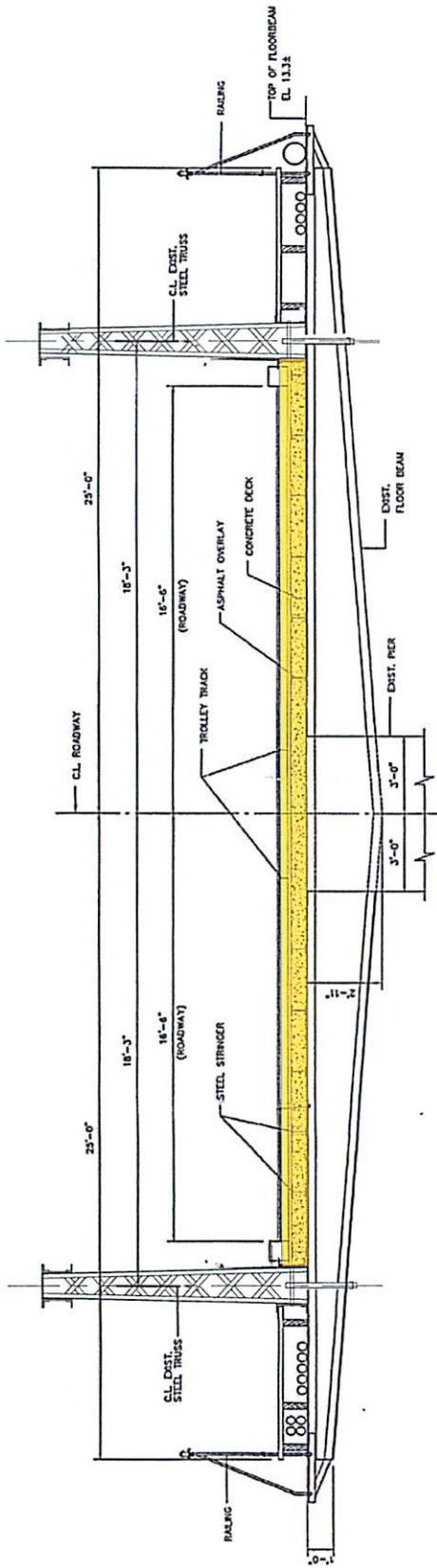
Submitted By:

  
Jay A. Costello, P.E.  
WMC Consulting Engineers

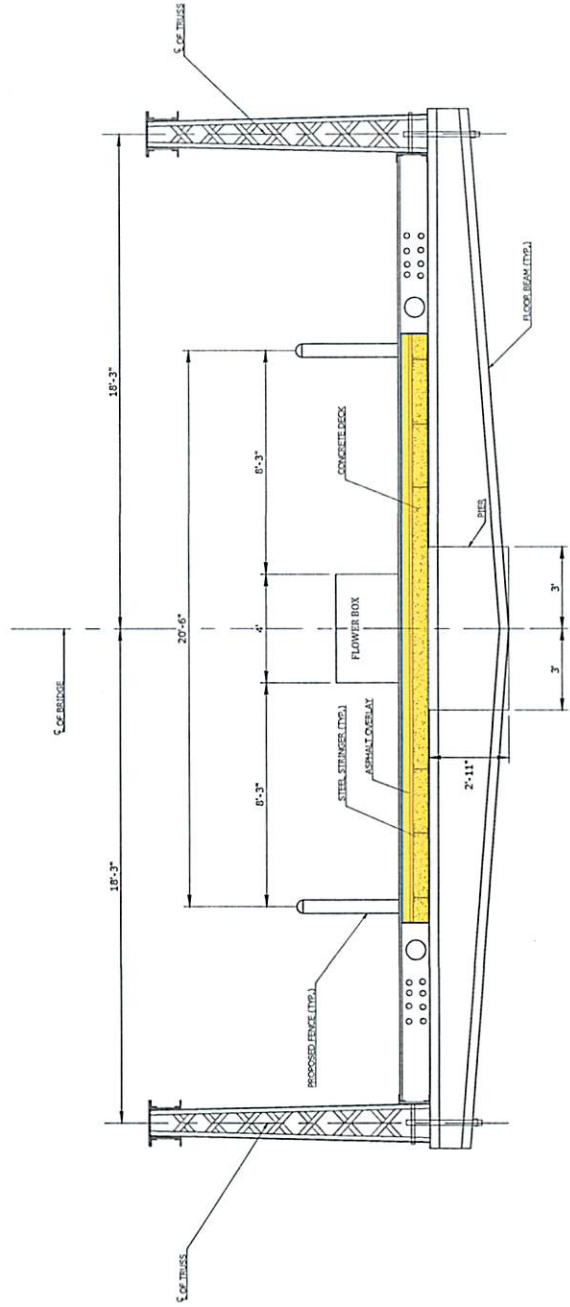
09/26/18  
Date







**MAIN STREET  
EXISTING CROSS SECTION**  
 SCALE: NOT TO SCALE



**MAIN STREET  
PROPOSED CROSS SECTION**  
 SCALE: NOT TO SCALE

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**Date of Meeting:** October 19, 2018

**Location of Meeting:** Stamford City Hall  
Engineering Conference Room, 7<sup>th</sup> Floor  
888 Washington Boulevard  
Stamford, CT.

**Time:** 11:00 AM

**Attendees:** See separate sign-up sheet for attendees and phone numbers. The following entities were represented.

- City of Stamford (City)
- WMC Consulting Engineers (WMC)
- Eversource Electric (EE)
- Frontier Communications (FC)

**Absent:**

- Eversource Gas (EG)
- Aquarion Water (AW)
- Cable

**Attachments:** Sign In Sheet (1 Page)

**Activity & Discussion:**

**Project Presentation and Previous Discussion:** Refer to 9/18/2018 utility meeting minutes.

**Discussion & Issues:**

**1) Resulting Actions and Activities:**

**Frontier Communications** – Frontier provided details of their existing facilities in the project area, as well as what their needs will be for facilities to be supported on the bridge in the future. The information is as follows:

**Copper cables:**

- BKTH-1500 3.59 lbs/ft
- BKTH-1200 2.94 lbs/ft
- DCAZ-900 4.4 lbs/ft
- ADAC-1100 5.66 lb/ft

**Fiber Optic: (\* and \*\* - Same conduit)**

- 3412LT-192 0.099 lbs/ft \*
- 3412LT-192 0.099 lbs/ft \*
- 3412L8-80 0.066 lbs/ft \*\*
- 3B32MR-288 0.131 lbs/ft \*\*

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Frontier desires to have 10 – 4” fiberglass conduits supported on the upstream face of the superstructure, which would eliminate splicing of the existing cables. Six of which would be occupied and four empty for future use. Frontier also noted they could potentially require only 9 conduits in a 3x3 array. Frontier also mentioned they could potentially eliminate the ADAC-1100 cables. Frontier also inquired about temporary support for their facilities. WMC stated a temporary support item will be included in the contract.

**Actions:**

- Frontier to verify if ADAC-1100 can be removed.
- WMC to analyze conduits/supports on upstream face

**Eversource (Electric)** – EE stated the existing conduit did not carry any facilities across the bridge. EE would like to maintain 6 – 5” P.V.C. conduits across the superstructure for future use. EE will provide the weight of the cables, pipes and supports. WMC noted the overhead wires and luminarie at the western abutment may need to be relocated during construction. EE said they would investigate but did not see it as an issue.

**Actions:**

- EE to provide weight of the cables, pipes and supports.
- EE to investigate overheads and luminaire at western abutment.

**Aquarion Water & Eversource Gas** – Representatives were unable to attend. Aquarion informed the City prior to the meeting that their existing main in the stream is broken. They requested a new 8” plastic main be installed on the new structure. The City has sent the respective utilities a request to provide the weights of their proposed utility, including pipes, insulation, fixtures, etc.

**Actions:** AW and EG to provide respective weights for their facilities.

**Outstanding Action:** WMC - Agreed to provide structural detail, as soon as the field measurements are taken and structure details have been developed for the existing/proposed floor beams and trusses, so that attachment details can be prepared and provided by the utility owners.

**Submitted By:**

\_\_\_\_\_  
John A. Wengell  
WMC Consulting Engineers

\_\_\_\_\_  
Date



# CITY OF STAMFORD - ENGINEERING BUREAU

## SIGN IN SHEET



**DATE:** October 19, 2018                      **TIME:** 11:00 AM  
**PROJECT:** Rehabilitation of the West Main Street Bridge- Utility Meeting  
**PROJ. NO.:**

NAME	ORGANIZATION - ADDRESS	TELEPHONE	EMAIL
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