

# Attachment A2.1

## Questions and Responses

STATE PROJECT: 9087-4214

Rehabilitation of Maple Street Bridge Over Naugatuck River

MANDATORY SITE WALK

5/30/2012, 10:00AM

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**ADDENDUM NO. 2**

State Project No. 9087-4214  
Rehabilitation of Structure  
Maple Street Over Naugatuck River  
Bridge No. 04214  
Borough of Naugatuck, CT

**RESPONSES TO QUESTIONS:**

1. Where are plans available?  
**Plans are available on the Town website for free. Hardcopy of the plans are available at the town purchasing department for a fee.**
2. Can the work area under the bridge be expanded upstream and downstream?  
**The limits of disturbance in the stream are limited to 60ft upstream and downstream from the fascias of the bridge.**
3. Where is lightweight concrete used?  
**Lightweight concrete is intended to be used for unreinforced fill over the structural arch. The Engineer may direct the contractor to use Class F concrete for fill instead of lightweight concrete. The quantity of Class F concrete on the plans is for the sidewalks and parapets. The quantity of lightweight concrete is for the fill. The total volume expected to be needed is the sum of both types of concrete.**
4. When will the determination of temporary support be made?  
**Prior to structural arch demolition in a span, the need for temporary supports will be made for the entire span for half the width of the bridge.**
5. Will the volume of core holes for placing concrete for bottom of arch repairs be paid for under variable depth patch?  
**Yes, see note 9 sheet 17.**
6. Can the concrete fill be placed in 6ft wide strips to match the demolition and repair limits?  
**Yes.**
7. What material will be salvaged?  
**Granite curbing and light standards are some items that will be salvaged.**
8. Are there DEEP restrictions on in-water work?  
**Yes, see note 1 on sheet 19.**
9. Plans limit hammer weight to 20 lbs but specification says 30lbs.  
**Hammer weights are limited to 30lbs. Plan sheet 14 will be revised.**

10. Can the river elevation be provided?  
**Yes, see Attachment A2.7.**
11. What is the limit of removal of concrete fill before equipment is no longer allowed on the arch?  
**To the crown of the arch.**
12. How is the base coarse material for areas along new curb line and approach slabs to be paid for?  
**Base course for roadway and base course for sidewalk are subsidiary to the sidewalk and curb items, as stated on Notes 1 and 2 of Sheet 4 of 25. Base course at the approach slabs will be paid under Processed Aggregate Base. Materials shall conform to the specification in these notes, and the depth shall conform to that shown on the plans.**
13. Will the area excavated 2 feet in front of the new curb be paid as earth excavation?  
**Yes, this area 2 feet from the face of curb will be paid as earth excavation.**
14. There does not appear to be an item for relocation of temporary precast concrete barrier curb.  
**Relocation of barrier has been incorporated into the Temporary Precast Barrier Curb item, as stated in the Special Provision for Item #0822001A**
15. What size is the rounded rip rap to be? (Modified, intermediate, standard or some specific grading)  
**The riprap shall meet the size and grading of Standard Riprap**
16. If the concrete paver option is not utilized for the bridge deck what will take it's place?  
**The bridge will be paved with HMA 0.5 if pavers are not used. Revised deck details will be provided if the pavers are not used.**
17. Limit of cofferdams as shown on plans is the toe of the Porta-Dam frame (where membrane goes from river bottom up frame). Can cofferdams be made larger up & downstream (Maintain same x-section of flow) and are sheet-piling allowed? Can the cofferdam remain in place during the winter?  
**The line shown on the plans is the toe of the Porta-Dam or the limit of restriction of channel width for other cofferdams. Cofferdams can be constructed to other geometry provided the Cross section of flow is maintained and the limit of disturbance is less than 60 feet upstream or downstream of the bridge fascias. Cofferdam may remain in the river over the winter but must be vented at the 2yr flood elevation of 181.6 and no equipment may remain in the river.**
18. Conduits & Gas main in Stage 1 are close to surface of concrete & may be exposed. Fiberglass ducts in Stage 2 as well. Shall rebar stop here? And who is responsible for membrane & pavement if damage occurs as a result of traffic during following stages (Stage 2 & Paver Installation)  
**Rebar will not extend transverse across bridge. Conduits will be spaced to allow concrete to support wheel loads. Contractor will not be responsible for conduit failure.**

19. Sheet 20/25 and 21/25 M&P Note 1 states that neither Stage I nor Stage II can be in place during the extended winter shutdown. If work has not been completed how is this going to be handled, and if Jersey Barriers are to be removed for the winter will they be paid once for removal and again for re-installation? Additionally how will the gap between Stage I and Stage II be treated? (See X-section on 22/25)  
**Stage 1 traffic pattern will be allowed over winter shutdown. Note 1 on sheet 20 will be revised.**
20. Plan sheet 8/25 shows 4 locations (assumed each gutter line) for a total of 8 weep holes, the estimate has a quantity of 9 for Item #0511211A Construct Weep hole. Please clarify quantity & location of weepholes.  
**There are 14 weep holes total. 9 are assumed to be drilled in the existing arch and 5 are assumed to be placed in new concrete. There are 7 on each curb. They are located at mid span of each span and just up-grade of each substructure.**
21. On Dwg 11/25 the sidewalk reinforcing calls for #5's @12" top & bottom, is bottom to be the top of the arch? If not please provide location for bottom mat  
**The reinforcing is in the parapet and sidewalk. The reinforcing shall be designed to fit at the crown of the arch and the same shapes shall be used at all other locations. Sheet 11 has been revised to show the reinforcing.**
22. Regarding splicing of the existing rebar in the arch and substructure, is it known what size and style of reinforcing is in the structure? (square rods, twisted square rods or round rods) and if square or twisted square rods exist has the engineer verified that a coupler suitable for square/twisted to modern rebar exists?  
**The type of reinforcing is unknown. Lap splices may be used instead of mechanical connectors if mechanical connectors are determined to be unfeasible in the field.**
23. Do you expect to splice 4,700 bars in the substructure & arch?  
**The quantity is based on assuming bars are 8ft long over the entire area of patching and are spliced on both ends. The actual quantity needed will vary.**
24. Is it possible to receive the pictures of the previous panels for Item #514981A Precast Concrete Architectural Panels?  
**Pictures are included in Attachment A2.6**

25. Item #0999002A – Disposal of Building. The Special Provisions state that no testing of hazardous materials has been performed and that the Contractor shall be responsible for testing for all hazardous material in the property. How are we to determine the extent of this testing without access and conducting an initial survey at our own expense? How are we to determine the extent of hazardous material removal without a complete test survey? Either this item should be deleted from the bid and the Town take on the responsibility of demolishing the building prior to commencement of construction or include the demolition of the building in the bid excluding hazardous materials and pay the Contractor for all costs associated with the testing and removal of hazardous materials as Extra Work. Please respond.

**Results of environmental evaluation are included in Attachment A2.5**

26. Please provide details as to the size of the manhole for Item #1010917A – Install Precast Concrete Manhole.

**The manhole is 34” x 34” x 26”, with a 6” cover, the bottom of the manhole will be 32” below finished grade.**

27. Sheet No. 14 of 25 contains a note on the Elevations “Clean Efflorescence and stalactites from mortar joints (typical both sides). Paid for under Blast Clean Existing Concrete”. There is no payment item or Special Provision for this work. Please provide the Special Provision, quantity, unit of measure and limits on the structure as to where this work will apply.

**An item for blast cleaning has been added. See Attachments A2.2 and A2.3.**

28. Note 10 on Sheet 19 of 25 states the Contractor shall clean sediment and debris from all drainage structures and pipes. There are no bid items included for the cleaning of drainage structure and pipe. Please provide the bid items and quantities for these items of work.

**The cleaning shall be considered subsidiary to the project. The cleaning consists of the 4 basins within the project limits and the outlet pipes from the basins to the face of abutments.**

29. There are not Special Provisions for Item #602890A- Dowel Bar Splicer System and Item #755009A- Geotextile. Please provide these specifications.

**These items were not intended to be special provisions and the “A” qualifier will be removed.**

30. On sheet 19 of 25 Notes, it is stated that "Sandbags are not allowed as a primary barrier in a cofferdam". Will large woven polypropylene bags of one cubic yard capacity filled with sand be allowed?

**Polypropylene bags can be used to supplement a cofferdam but cannot be use as the primary barrier built to Elevation 181.6.**

31. How far and in what direction can the AT&T conduits be moved or will they have to be supported in their present location?

**It is unknown how far the conduits can move until AT&T breaks the conduits out of the concrete encasement. It is anticipated that the conduits will be able to move in any direction up to the available slack.**

32. During the work performed for the variable depth patch item, the rebar may have to be replaced. It was indicated that a coupler may have to be used to limit the amount of concrete removed. How much cover over the coupler will be required?  
**A minimum of 2.5 inches of cover is desired. Existing reinforcing having less cover than this will be addressed in the field.**
33. At the prebid meeting, placing a crane on the west approach between the west abutment at the RR Bridge was discussed. If this is done will RR Protective insurance be required? Also will positioning a crane in this area require railroad protection (i.e. a flagmen) and if required who will pay for this service.  
**Railroad protection will not be required to construct the bridge.**
34. Will it be permissible to place a load on an unbackfilled arch at its crown?  
**Vehicles or outrigger pads will not be allowed. Men and tools will be allowed.**
35. Please provide the amount of concrete test cylinders to be taken each time and the frequency required for the test cylinders for Item #0601196A Variable Depth Patch.  
**A set of cylinders for each 60 CY of concrete placed with a minimum of one set each day concrete is placed.**