# Method 10: In-Water and Overwater Structure Repair and Replacement

# 10C: *Superstructure, Decking and Utilities on Fixed Structures*

**Project Title:**

**Project CIP Number:**

*See Section 3 of the SBE, Method* ***10C*** *for a complete description of the activity and conservation measures for this method. You need this information to fill out this form.*

Superstructure, Decking and Utilities on Fixed Structures

1. Will the footprint of the repaired or replaced structure be larger, smaller or the same size as the existing structure?

| Larger | Smaller | Same Size | Fixed Structure Element | Amt. Smaller or Larger |
| --- | --- | --- | --- | --- |
| [ ]  | [ ]  | [ ]  | Fixed pier |       ft2 |
| [ ]  | [ ]  | [ ]  | Viewing platforms |       ft2 |
| [ ]  | [ ]  | [ ]  | Pedestrian bridges |       ft2 |
| [ ]  | [ ]  | [ ]  | Abutments |       ft2 |
| [ ]  | [ ]  | [ ]  | Footings |       ft2 |
| [ ]  | [ ]  | [ ]  | Other:       |       ft2 |
| [ ]  | [ ]  | [ ]  | Other:       |       ft2 |

2. Will the repaired or replaced structure have more, less or the same amount of light transmitting material as the existing structure? List the type of light transmitting material that will be placed in each structure: grating, glass block, glass prisms, glass floors, etc.

| More | Less | Same Size | Fixed Structure Element | Amt. More or Less | Type Light Trans-mitting Material |
| --- | --- | --- | --- | --- | --- |
| [ ]  | [ ]  | [ ]  | Fixed pier |       ft2 |       |
| [ ]  | [ ]  | [ ]  | Viewing platforms |       ft2 |       |
| [ ]  | [ ]  | [ ]  | Pedestrian bridges |       ft2 |       |
| [ ]  | [ ]  | [ ]  | Abutments |       ft2 |       |
| [ ]  | [ ]  | [ ]  | Footings |       ft2 |       |
| [ ]  | [ ]  | [ ]  | Other:       |       ft2 |       |
| [ ]  | [ ]  | [ ]  | Other:       |       ft2 |       |

3. If only maintenance will be occurring on the superstructure(s), identify activities that will be conducted:

 [ ]  Replace deck planks – type of material, number and size:

 [ ]  Replace hand rails – number and size:

 [ ]  Replace stringers and rails – numbers and size:

 [ ]  Lateral, cam timbers, or walers – numbers and size:

 [ ]  Other:

4. Will a pneumatic or jack hammer be used to install or replace any micro or pin pilings [ ]  No [ ]  Yes If yes, will the pneumatic or jack hammer be operated in water? [ ]  No [ ]  Yes

5. Will any bridge base structure be repaired or replaced. [ ]  No [ ]  Yes

 If yes, identify type and size:

 [ ]  Shot rock - Size

 [ ]  Rubble - Size

 [ ]  Pile with lagging - Size

 [ ]  Concrete - Size

 [ ]  Other - Size

7. Will any work be conducted below the OHW or MHHW. [ ]  No [ ]  Yes If yes, please identify type of work.

8. Provide additional information (if any) on this method:

Conservation Measures

The following table contains the conservation measures identified for Method 10C. The table only provides a brief summary of the conservation measures. Please see Section 4 of the SBE for a complete description of each conservation measure. To get programmatic coverage by the Corps and Services for projects using this method, all conservation measures identified below must be included with the project (see Section 10 of the SBE). If, for some reason, a conservation measure is not applicable, or will not be used, you MUST provide a reason the conservation measure is not applicable or will not be used in the “Provide additional information” section below. Provide any additional conservation measures that may be implemented but are not listed. These may be found in Section 4: Conservation Measures of the SBE or in the City Standard Specifications.

| **Conservation Measures** | **Description** | **Included in****Project?** |
| --- | --- | --- |
| 1 | Approved work windows |  |
| 3 | Onsite Spill Prevention and Control Plan |  |
| 4 | Maintain a spill kit onsite |  |
| 7 | Limit clearing and grubbing areas to minimum required, retain vegetation to maximum extent |  |
| 12 | Use sediment barriers to prevent erosion and sediment from entering waterbodies |  |
| 15 | Clean equipment that will work below the OHW or MHHW lines or in riparian or shoreline areas |  |
| 16 | Fuel equipment in staging areas |  |
| 18 | Use vegetable-based hydraulic fluid when equipment operates in sensitive areas |  |
| 19 | Operate machinery from existing roads and paved areas |  |
| 25 | Minimize stream and riparian crossings |  |
| 26 | Manage stream crossings to minimize erosion |  |
| 27 | Place erosion and water quality control devices prior to beginning of work |  |
| 28 | If mechanized equipment is used within the OHW or MHHW, only an extension arm with bucket or similar attachment shall enter the water. Conduct debris removal and work below OHW or MHHW during low water levels (fresh waters) or at low tide (marine waters) |  |
| 29 | Confine use of equipment operating below OHW or MHHW to designated access corridors |  |
| 33 | Minimize overwater structure size to reduce shading impacts |  |
| 35 | Use grating on fixed structures over water |  |
| 37 | Replacement floats shall be at least 4 feet above marine vegetation |  |
| 38 | Floatation material shall not block any grating or other surface light treatment through the overwater structure |  |
| 39 | Place new and replacement piers at least 2 feet above OHW or MHHW |  |
| 40 | New or replacement skirting will not be installed |  |
| 45 | Use plastic, cement or timber piles over steel piles |  |
| 46 | Use containment boom |  |
| 48 | Do not use piling treated with creosote, pentachloraphenol, or coal tar |  |
| 55 | Reduce noise from work operation |  |
| 57 | Perform all work in the dry when possible |  |
| 58 | Conduct work during minus tides or low water levels |  |
| 59 | Use clean, washed material |  |
| 62 | Do not ground or rest construction barge on substrate or on vegetation |  |
| 63 | Take care to prevent spread of invasive plant species during their removal |  |
| 64 | Plant with native vegetation |  |
| 65 | Retrieve and remove debris that enters waterbody |  |

Please provide any additional information on Conservation Measures used or not used for this Method: