



U.S. Department  
of Transportation

Federal Highway  
Administration

# Memorandum

Subject: **INFORMATION:** Financial Management  
Information System (FMIS) New and  
Updated Improvement Type Codes for  
Bridges, Tunnels and Other Assets

Date: September 27, 2012

From: /s/ signed by  
M. Myint Lwin, P.E., S.E.  
Director, Office of Bridge Technology

In Reply Refer To:  
HIBT-30

To: Federal Lands Highway Division Engineer  
Director of Technical Services  
Division Administrators  
Directors of Field Services

The following table contains new FMIS improvement type codes which are being implemented in order to properly record project information when obligating MAP-21 apportionments. Guidance and a complete list of bridge, tunnel and other asset improvement types are contained in attachments 1, 2, and 3. Please share these codes with all who are involved in recording project information in FMIS.

Code	Improvement Type
49	Bridge Inspection and Related Training
50	New Tunnel
51	Tunnel Replacement
52	Tunnel Rehabilitation
53	Tunnel Preservation
54	Tunnel Protection
55	Tunnel Inspection and Related Training
56	Other Asset Inspection

Please direct any questions regarding the use of these codes for bridges to Everett Matias, 202-366-6712, [Everett.Matias@dot.gov](mailto:Everett.Matias@dot.gov), or Ann Shemaka, 202-366-1575, [Ann.Shemaka@dot.gov](mailto:Ann.Shemaka@dot.gov). Tunnel related questions should be directed to Doug Blades, 202-366-4622, [Douglas.Blades@dot.gov](mailto:Douglas.Blades@dot.gov).

Attachments

**Attachment 1**

<b>BRIDGE IMPROVEMENT TYPES</b>				
<b>Code</b>	<b>Name</b>	<b>Structure No. Required</b>	<b>Definition</b>	
			<b>Highway Bridge Program Funds</b>	<b>MAP-21 Funds</b>
8	New Bridge	No	Not applicable.	Construction of a new bridge that does not replace or relocate an existing bridge.
10	Bridge Replacement	Yes	Total replacement of a structurally inadequate or functionally obsolete bridge with a new structure that adds capacity with additional lanes in the same general traffic corridor to current geometric construction standards. A bridge removed and replaced with a lesser facility is considered a bridge replacement. Incidental roadway approach work is included.	Total replacement of a bridge with a new structure.
11	Bridge Replacement - No added capacity	Yes	Total replacement of a structurally inadequate or functionally obsolete bridge with a new structure without adding lanes constructed in the same general traffic corridor to current geometric construction standards. A bridge removed and replaced with a lesser facility is considered a bridge replacement. Incidental roadway approach work is included.	Not applicable.

**BRIDGE IMPROVEMENT TYPES - CONTINUED**

Code	Name	Structure No. Required	Definition	
			Highway Bridge Program Funds	MAP-21 Funds
13	Bridge Rehabilitation	Yes	<p>For the major work required to restore structural integrity of a bridge, add capacity (i.e., through lanes), and to correct major safety defects. Bridge deck replacement (both partial and complete) and widening of bridges including addition of through lanes to specified standards are included. Construction of a dual structure to alleviate a capacity deficiency is also included. Work required to correct minor structure and safety defects or deficiencies, such as deck patching, resurfacing, protective systems, upgrading railings, curbs and gutters, and other minor bridge work is not included.</p>	<p>Major work required to restore the structural integrity of bridge as well as work necessary to correct major safety defects.</p>
14	Bridge Rehabilitation - No added capacity	Yes	<p>For the major work required to restore structural integrity of a bridge as well as work necessary to correct major safety defects. Bridge deck replacement (both partial and complete) and widening of bridges without adding through lanes to specified standards are included. Work required to correct minor structure and safety defects or deficiencies, such as deck patching, resurfacing, protective systems, upgrading railings, curbs, or other preventative maintenance items are not included.</p>	<p>Not applicable.</p>

**BRIDGE IMPROVEMENT TYPES - CONTINUED**

Code	Name	Structure No. Required	Definition	
			Highway Bridge Program Funds	MAP-21 Funds
40	Special Bridge	No	Includes bridge inventory, inspection and classification and other special bridge projects, such as load posting, not covered by another type of improvement code. Also includes application of calcium magnesium acetate, sodium acetate/formate, or other environmentally acceptable, minimally corrosive anti-icing and deicing compositions.	Includes low water crossing replacement, application of calcium magnesium acetate, sodium acetate/formate, or other environmentally acceptable, minimally corrosive anti-icing and deicing compositions, and other eligible bridge projects not covered by another type of improvement type code.
47	Bridge Preservation	Yes	Preventive maintenance activities that are cost effective means of extending the service life of a bridge.	Activities that prevent, delay, or reduce deterioration of bridges or bridge elements, restore the function of existing bridges, keep bridges in good condition and extend their life.
48	Bridge Protection	Yes	Not applicable.	Includes scour countermeasures, seismic retrofits, impact protection measures, security countermeasures, and protection against extreme events.
49	Bridge Inspection and Related Training	No	Not applicable.	Bridge inspection and evaluation activities, including in-depth and special inspections. Bridge inspection related training.

**Attachment 2**

<b>TUNNEL IMPROVEMENT TYPES</b>			
<b>Code</b>	<b>Name</b>	<b>Structure No. Required</b>	<b>Definition: MAP-21 Funds Only</b>
50	New Tunnel	No	Construction of a new tunnel that does not replace or relocate an existing tunnel.
51	Tunnel Replacement	Yes	Total replacement of a tunnel with a new structure constructed with additional lanes in the same general traffic corridor.
52	Tunnel Rehabilitation	Yes	For the work required to restore structural integrity of a tunnel, as well as, work necessary to correct major safety defects.
53	Tunnel Preservation	Yes	Activities that prevent, delay, or reduce deterioration of tunnels or tunnel elements, restore the function of existing tunnels, keep tunnels in good condition and extend their life.
54	Tunnel Protection	Yes	Includes impact protection measures, security countermeasures, and protection against extreme events.
55	Tunnel Inspection and Related Training	No	Tunnel inspection and evaluation, including in-depth and other special inspections. Tunnel inspection related training.

Attachment 3

<b>OTHER ASSETS IMPROVEMENT TYPES (Including signs, earth walls, drainage)</b>			
<b>Code</b>	<b>Name</b>	<b>Structure No. Required</b>	<b>Definition: MAP-21 Funds Only</b>
56	Other Asset Inspections	No	Inspection and evaluation of infrastructure assets other than bridges or tunnels, including signs and sign-structures, earth retaining walls and drainage structures. Inspection related training for signs and sign-structure, earth retaining walls and drainage structures.