New York State Bridge Task Force Final Report to the Governor November 30, 2007

Completion of Bridge Review

I. INTRODUCTION

This report is a follow-up to the Task Force report issued on August 31, 2007. Its purpose is to provide additional information on findings from detailed inspections performed on the 49 deck truss highway bridges in New York State and details on capital requirements and funding needs for highway bridges in the State.

II. SUMMARY

The detailed inspections of all 49 deck truss bridges in New York State have been completed. The results of these inspections have verified that the deck truss bridges in New York State are safe for travel by the public and the bridge inspection protocols used in New York are effective. The results also confirm that these bridges are meeting or exceeding the length of service for which they were designed.

The New York State Department of Transportation (NYSDOT), in cooperation with the State Office of Homeland Security (OHS), has developed protocols and guidelines for disclosing records on security sensitive bridges in response to public requests for bridge inspection reports and other data. NYSDOT is providing these directions to all bridge owners in New York State.

Our transportation system is under stress from age, heavy use, and lack of adequate investment. The system is safe, but the condition of many parts of our infrastructure is worsening. Unfortunately, we cannot reverse these trends in a year or two; it will take a dedicated, sustained, long-term effort.

NYSDOT is undertaking a comprehensive review of its highway and bridge capital requirements and funding needs pursuant to recent state congestion pricing legislation, Chapter 384 of the Laws of 2007. This assessment, in conjunction with Executive Budget development, will guide future funding decisions.

Looking forward, NYSDOT plans to pursue a three-part strategy to improve the condition of the more than 17,000 state and local highway bridges in the State. This strategy includes: (1) placing greater emphasis on investments in preventive and corrective maintenance; (2) pursuing a strong Federal partnership under which the Federal government shoulders an appropriate share of the solution for bridges; and (3) incorporating a comprehensive bridge improvement program into the next State transportation capital plan.

The proposed bridge improvement strategy employs the Department's new approach that emphasizes maintenance to keep bridges from falling into the deficient category and seeks to assure the State receives the full life out of the materials used to build its bridges and reduces the overall life-cycle cost of these assets.

III. STATUS OF DECK TRUSS HIGHWAY BRIDGE INSPECTIONS

All 49 deck truss highway bridges in New York State were inspected following the Governor's August 1, 2007 directive. Inspection findings confirm that all of these bridges are safe for use by the traveling public. Please note that the Newburgh-Beacon twin-span bridge is considered a single bridge for the purposes of this review.

Inspections were performed in two stages:

- 1. Visual inspections of all deck truss spans were performed, including the deck elements, primary and secondary steel members, bearings, joints and supporting substructures. The superstructure and substructure members also were observed for condition and alignment; plumbness (where applicable); deterioration and/or loss of section; and joint and bearing positioning. All visual inspections were completed by August 30, 2007 with findings reported in the August 31, 2007 Task Force report.
- 2. Detailed inspections of all highway deck truss bridges that had not already received their regularly scheduled inspection in 2007 were performed, including hands-on inspections of the non-redundant deck truss structural components to detect cracks or loss of section induced by fatigue, distortion or corrosion. All detailed inspections were completed by October 17, 2007.

Detailed Inspection Findings

Detailed inspections of the deck truss bridges did not reveal any major problems. Several minor issues were found that are common for these inspections and will be addressed appropriately by the bridge owners. Some deficiencies were identified and documented through our "flagging" procedure, which will require a timely response in order to address the defects encountered. Approximately 5 percent of all bridge inspections result in a flag condition being discovered. Deck trusses are older and more complicated structures and their inspections typically result in more flags than other bridge types. Approximately 39 percent of the deck truss bridges had structural flag conditions. Additionally, some of the bridges received multiple flags of different types. Table 1 includes details on the number and type of flags identified as a result of these inspections.

Table 1. Number and Type of Flag Conditions Found

Type of Flag	Number of Flags	Number of Bridges
No Flag	0	29
Red ¹	1	1
Yellow ²	53	18
Safety	29	11

¹The red flag condition has been addressed and removed for this bridge.

"Red" flags are issued for deficiencies involving critical structural components that require prompt evaluation and corrective measures to resolve the flag condition. As indicated in the August 31, 2007 Task Force report, one red flag was issued for the Route 9W Bridge over the Popolopen Creek in Orange County due to a crack in one of the tiedown eyebars at the abutment. A structural analysis confirmed there was sufficient remaining load capacity to allow the bridge to remain open to traffic until a repair could be made. A repair design was developed and implemented by NYSDOT forces, resulting in the red flag condition being removed.

"Yellow" flags identify less critical conditions that are likely to affect the long-term durability of a bridge and may progress to a more serious condition if left unattended for extended periods. If a yellow flag condition is not resolved, the bridge will at a minimum be put on an annual (interim) inspection cycle. All bridges in New York State are inspected at least every two years. Typical yellow flag conditions identified during the detailed inspections were:

- Minor cracking of load carrying members.
- Section-loss of load carrying members due to corrosion and rusting.
- Cracking and/or spalling of concrete deck and substructure elements.
- Corroded and/or frozen bearings.
- Corroded, broken and/or missing individual bolts at structural connections that include a system of multiple bolts.

The yellow flag conditions identified from these detailed inspections have been evaluated and plans of action have been developed to address the problems. Some of these conditions will require further analysis to determine their impact on the load-carrying capacity of the bridge. If capacity is determined to be inadequate, the bridge will either be repaired or be posted with an appropriate load restriction until repairs can be made. Three of the yellow flag conditions have been addressed, resulting in the flags being removed. Additionally, two of these bridges are scheduled for replacement with lettings in 2008 and 2009. A rehabilitation project also has been awarded that will address the yellow flag conditions for another bridge. The remaining yellow flag conditions on 13

²Three yellow flag conditions have been addressed and removed for two of these bridges.

bridges will be closely monitored through the use of interim inspections until repairs can be made.

"Safety" flags address non-structural safety related issues noticed by inspectors during the inspections. The most common reasons for these include conditions such as loose concrete, guide rail damage, and exposed utility wires. These conditions were reported to the bridge owners for appropriate action.

IV. SENSITIVITY TO SECURITY CONCERNS

After the Minneapolis bridge collapse, the Department and many local agencies received numerous inquiries on bridge conditions and FOIL requests for bridge inspection reports.

In August, the Department created a Web site providing condition and related information on all 17,378 highway bridges in New York State. The address of this Web site is: www.nysdot.gov/bridgedata. To date, the main page has received more than 14,000 hits.

Recognizing that some bridges in New York State may be security sensitive, and that it may not be appropriate to disclose records containing structural vulnerability information about such bridges, NYSDOT, in cooperation with OHS, has developed protocols for responding to FOIL and informal requests for inspection reports and bridge plans.

NYSDOT, in consultation with OHS, has also developed guidelines for the disclosure of records for security sensitive bridges. NYSDOT is communicating these protocols and guidelines to all bridge owners in New York State. Essentially, other than records containing structural vulnerability information for bridges identified as security sensitive, all factual information in records on New York State's bridges may be released to the public.

V. NYSDOT BRIDGE IMPROVEMENT STRATEGIES

State legislation passed earlier this year creating the New York City Traffic Congestion Mitigation Commission requires NYSDOT to submit a new capital program to the Governor and Legislature by March 31, 2008 for the five-year period from April 1, 2009 to March 31, 2014. In preparation, NYSDOT undertook a comprehensive assessment of capital requirements and funding needs for the transportation system across the State, including highways and bridges.

In 2006, the Interstate Highway System reached the 50-year milestone; many bridges are nearing the end of their useful life and will soon require either major rehabilitation or replacement. New York State has more than 17,000 highway bridges; more than 6,400 of them are 50 years old or older (see Figure 1). Additionally, there is a large population of bridges that will turn 50 years old within the next 10 years.

2,500 2,000 Number of Highway Bridges 1,500 1,000 1800-1910-1920-1930-1940-1950-1960-1970-1980-2000-2,091 1,089 7,602 State Bridges 8,551 Local Bridges 1,316 1,044 ■ 1,161 Other Bridges

Figure 1. Number of NYS Highway Bridges by Year Built

Bridge Condition Trends

Bridge performance is measured based upon the percentage of bridges in good and excellent condition. During the 1990s, the number of state and local highway bridges in good and excellent condition was improving. The recent trend is a decline in overall bridge conditions (see Figure 2). In addition, nearly 3,000 state and local highway bridges are in the marginally good category and are predicted to move to the deficient category (i.e., fair or poor condition) within 10 years, absent additional investment.

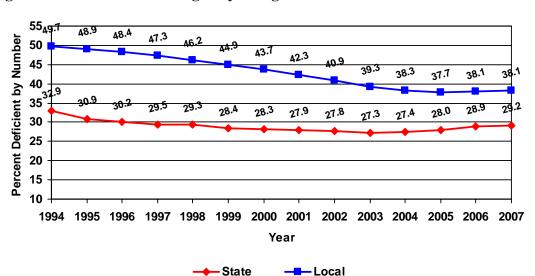


Figure 2. State and Local Highway Bridge Condition Trends

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Bridge Improvement Strategies

Looking forward, NYSDOT plans to pursue a three-part strategy to improve the condition of the more than 17,000 state and local bridges.

- First, NYSDOT will place greater emphasis on investments in preventive and
 corrective maintenance to keep good and marginal bridges from slipping into the
 deficient category. Numerous studies have established that it is far less costly to
 manage infrastructure assets with regular preventive and corrective maintenance,
 rather than to allow them to deteriorate over time and require major rehabilitation
 or replacement as a result.
- Secondly, NYSDOT will pursue a strong Federal partnership under which the Federal government shoulders an appropriate financial share of the solution for bridges. The dilemma facing our transportation infrastructure is not limited to New York State. It is being replicated across the country. This is a national issue and requires a strong Federal role in the solution. In particular, the Federal government created the Interstate Highway System and should be responsible for its reconstruction as it reaches the end of its useful life. A strong Federal role in funding the nation's bridge needs should continue as states across the country struggle with bridge deficiencies.

NYSDOT will pursue additional Federal capital funds to address the backlog of bridges classified as deficient. Congress is debating a 2008 appropriations bill that includes a significant boost for bridge capital funding which could yield as much as \$1 billion nationally and \$100 million for New York State. If this program is enacted, it would fund capital projects that would play a pivotal role in improving bridge conditions in New York State.

• Finally, NYSDOT will incorporate a comprehensive bridge improvement program in the next State transportation capital plan. A new and comprehensive plan for the State's transportation infrastructure will be developed by NYSDOT and submitted to the Governor and Legislature by March 31, 2008. This plan will address transportation capital needs for the five-year period beginning April 1, 2009. Within the context of the plan, NYSDOT will outline a set of long-term goals for our bridge conditions and will quantify investments necessary to achieve them, regardless of who owns the structures.

The proposed bridge improvement strategy will employ the Department's new approach of emphasizing maintenance in order to keep bridges from falling into the deficient category. An early focus will be to build an organizational capacity to perform the necessary maintenance and provide resources for it, such as necessary equipment. This strategy will help overcome the deterioration of bridges as they age and assure that the State gets the full life out of the materials used in building these structures.

The bridge strategy will also include the major reconstruction or replacement of critically deficient bridges. It will continue to focus on bridges that need corrective work, but are not so deteriorated that they need major reconstruction. Addressing bridge preventive maintenance before these facilities need more extensive rehabilitation will reduce the

overall life-cycle cost of the structures. An example of this strategy is the repair recently made to the Patroon Island Bridge carrying I-90 across the Hudson River and connecting Albany and Rensselaer counties. An innovative repair technique was used to address cracking in the floor beams, which should extend the service life of these elements by more than 20 years. This will give NYSDOT significantly more time to evaluate the needs of the entire I-90/I-787 interchange complex and make cost-effective decisions based upon this comprehensive need, rather than the Patroon Island Bridge alone.

New York State Deck Truss Highway Bridge Inventory

	NYSDOT Average Condition Rating 4.36 5.04 3.76 4.53 5.37 5.38 4.48 5.05 4.29 3.92 3.92 3.56 4.40	Owner New York State DOT New York State Thruway Authority New York State Bridge Authority New York State Thruway Authority New York State Thruway Authority New York State Thruway Authority New York State DOT New York State DOT
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1 Saratoga 3304190 Batchellerville Bridge 30-Aug-07 1 Safety Safety: loose light pole	3.56 4.40	
1 Warren	4.40	New York State DOT
1 Warren 3305530 Bridge St. over Hudson River 14-Aug-07 None NI/A		County
3 Tompkins 2210620 Stewart Ave over Fall Creek 9-Aug-07 None Ni/A		New York State DOT
4 Monroe 1052239 Rt 104 over Irondequoit Bay 22-Aug-07 1 Yellow, 1 Safety Yellow: crack in pier stem 4 Monroe 2211300 Smith Street over Genesee River 13-Sep-07 6 Yellow, 5 Safety Yellow: corroded bearing, stringers, vertical & brackets, missing bolts 5 Cattaraugus 1041590 Rt 219 over Cattaraugus Creek 15-Aug-07 1 Yellow Yellow: corroded bearing, stringers, vertical & brackets, missing bolts 5 Erie 3362260 Ward Drive over Big Gulf Creek 23-Aug-07 None N/A 5 Erie 5043981 I-190 over Niagara River 17-Oct-07 None N/A 5 Erie 5043982 I-190 over Misses Parkway 17-Sep-07 1 Yellow Yellow: spalling in bottom of deck 5 Erie 5045751 I-190 over Moses Parkway 17-Sep-07 1 Yellow, 1 Safety Yellow: spalling in bottom of deck 7 St. Lawrence 3341140 CR 49 over East Branch of the St Regis River 18-Jun-07 None N/A 8 Columbia 1006460 Rt 9 over the Roeiiff Jansen Kill	4.61	County
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8 Orange 1035340 Rt 97 over Mongaup River 8 - Aug-07 None N/A 8 Orange 3344290 Creamery Rd over Woodbury Creek 14-Aug-07 None N/A 8 Orange 5060381 Newburgh-Beacon Bridge (I-84 over Hudson) 24-May-07 None N/A 8 Orange 5060382 Newburgh-Beacon Bridge (I-84 over Hudson) 24-May-07 None N/A 8 Rockland 1007140 Rt 9W over Cedar Pond Brook 7-Aug-07 3 Yellow Yellow: corrosion of floorbeam, lacing bars & gusset plate	4.61	New York State DOT
8 Orange 3344290 Creamery Rd over Woodbury Creek 14-Aug-07 None N/A 8 Orange 5060381 Newburgh-Beacon Bridge (I-84 over Hudson) 24-May-07 None N/A 8 Orange 5060382 Newburgh-Beacon Bridge (I-84 over Hudson) 24-May-07 None N/A 8 Rockland 1007140 Rt 9W over Cedar Pond Brook 7-Aug-07 3 Yellow Yellow: corrosion of floorbeam, lacing bars & gusset plate	5.25	New York State DOT
8 Orange 5060381 Newburgh-Beacon Bridge (I-84 over Hudson) 24-May-07 None N/A 8 Orange 5060382 Newburgh-Beacon Bridge (I-84 over Hudson) 24-May-07 None N/A 8 Rockland 1007140 Rt 9W over Cedar Pond Brook 7-Aug-07 3 Yellow Yellow: corrosion of floorbeam, lacing bars & gusset plate	3.69	County
8 Orange 5060382 Newburgh-Beacon Bridge (I-84 over Hudson) 24-May-07 None N/A 8 Rockland 1007140 Rt 9W over Cedar Pond Brook 7-Aug-07 3 Yellow Yellow: corrosion of floorbeam, lacing bars & gusset plate	5.01	New York State Bridge Authority
8 Rockland 1007140 Rt 9W over Cedar Pond Brook 7-Aug-07 3 Yellow Yellow: corrosion of floorbeam, lacing bars & gusset plate	4.73	New York State Bridge Authority
	4.13	New York State DOT
6 Nockialid 1027000 NC 35 OVER ASCACK CIEEK 3-May-07 Notice 11/M	4.85	New York State DOT
8 Rockland 5503400 Bear Mountain Bridge 10-May-07 None N/A	4.76	New York State Bridge Authority
o Rockland 5516340 Tappan Zee Bridge (187) 3-0ct-07 1 Yellow Yellow: concrete spall in pedestal	2.96	New York State Thruway Authority
8 Ulster 5025530 Mid Hudson Bridge 27-pr-07 None N/A	4.81	New York State Finday Authority New York State Bridge Authority
6 Uister 9029530 Mila rudson Bridge 27-Apr-07 None N/A 8 Ulster 5040010 Kingston-Rhipediff Bridge 1-Jun-07 None N/A	5.49	New York State Bridge Authority
8 Uister 5040U10 Kingston-Knineculit Bridge 1-Jun-U/ None N/A 8 Westchester 2265110 South Tenth Ave over Metro-North RR NH Line 8-Aug-07 1 Safety Safety: exposed wires	4.25	MTA Metro-North Railroad
	5.36	
	4.78	New York State DOT
		MTA Metro-North Railroad
9 Sullivan 1013799 Rt 17 over Edwards Island Road 16-Aug-07 5 Yellow, 4 Safety Yellow: small crack at cope, cracked tack welds, cracked bracket welds 9 Tioga 1060150 Rt 96 over the Susquehanna River 17-Aug-07 None N/A	3.91 6.61	New York State DOT New York State DOT
11 Kings 1075699 Kosciuszko Bridge 28-Sep-07 20 Yellow, 8 Safety Yellow: section loss, corrosion cracks, cracked welds	3.71	New York State DOT
11 New York 1240090 Macomb Dam Bridge 22-Aug-07 None N/A	4.17	New York State DOT
11 New York 2240019 Brooklyn Bridge 27-Sep-07 2 Yellow, 3 Safety Yellow: floorbeam & stringer section loss	2.92	City
11 New York 2240028 Manhattan Bridge 30-Sep-07 1 Yellow Yellow: deterioration at panel point		City
11 New York 2240048 Queensboro Bridge 27-Aug-07 None N/A	4.36	City
11 New York 2240089 145th St over Harlem River 22-Aug-07 None N/A	4.43	City
11 New York 2240120 University Heights Bridge 21-Aug-07 None N/A	4.43 3.08	City
11 Queens 5521240 Marine Parkway over Rockaway Inlet 5-Jul-07 2 Yellow, 1 Safety Yellow: diagonal brace connection plate cracked, clip angle cracked	4.43	MTA Bridges & Tunnels

Bridge Owner

NYSDOT Authority Local Other 11/27/2007