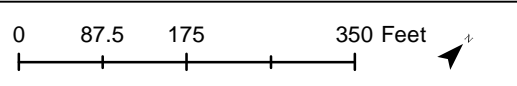


City/Town	Portsmouth		Contract No.:	
Location:	Preliminary engineering, environmental services, public involvement services, and final design are needed for the design of soundwalls and a privacy fence along I-95 in the City of		Assignment No.:	
Bridge No.		BIN:	Project No.:	43760
Consultant:		Est. Constr. Cost:	\$10,000,000.00	
		Project Manager:	Sam Newsom	
<b>PROJECT NARRATIVE</b>				
<p>The contract will involve soundwall design of Area 3 (I-95 Pannaway Manor – 2,500 lf+/-) and Area 6 &amp; 8 (I-95 Rockingham Avenue – 3,140 lf+/-) soundwalls. A concrete privacy fence will also need to be designed at Area 7 (I-95 New Franklin School – 1,000 lf+/-) See attached checklist information for mapping and additional project information.</p> <p>The scope of work may include:          Completing the final design of the soundwall plans, to include the wall and foundation design.          Environmental permit requirements in compliance of NEPA.          Public outreach and involvement support services.          Project Management          ROW layout and plan development, including any necessary survey work, for reestablishing and documenting the existing highway right-of-way in a manner suitable for recording at the Registry of Deeds.          Incorporate Geotechnical subsurface exploration, recommendations, and reports, provided.          Construction traffic control design          Construction support services</p> <p>Note: A determination will be made prior to contract award whether the existing bridges in Area 6 &amp; 8 can handle the added soundwall loading. Figure 10 depicts the soundwalls being continuous over the bridges and Figure 11 shows breaking the soundwall and deleting the soundwall over the bridges.</p> <p>Note: During this contract there will be a shoulder running ITS effort in existence along I-95 during non-winter months. The shoulder running effort must be maintained during construction.</p>				
<b>WORK ITEM</b>				
<b>DESCRIPTION</b>		<b>STATUS</b>		
Design Report	Describes existing conditions, evaluates alternatives, and recommends proposed geometrics.		Does not exist	
Design Exceptions	Describes reasons for requesting a design exception and forms the basis for a Design Exception Report.		None currently	
Bridge	None	Curb to Curb Width	Span Configuration	
Exist:				
Proposed:				
Typical Cross Section	a) Mainline b) Side Streets		TBD	
Design Speed	a) Mainline b) Side Streets		70 mph	
Project Lengths	a) Area 3 b) Area 6 & 8 c) Privacy Fence		2500 lf +/- 3140 lf +/- 1000 lf +/-	
Project Phases	a) Post Hearing b) Line and Grade c) Slope and Drain d) PPS&E e) PS&E f) Contract Plans		Preliminary Design (Part B) Final Design (Part C) Final Design (Part C) Final Design (Part C) Final Design (Part C) Final Design (Part C)	

City/Town	<b>Portsmouth</b>		Contract No.:	
Location:	<b>Preliminary engineering, environmental services, public involvement services, and final design are needed for the design of soundwalls and a privacy fence along I-95 in the City of</b>		Assignment No.:	
Bridge No.		BIN:	Project No.:	<b>43760</b>
Consultant:		Est. Constr. Cost:		
		Project Manager:		<b>Sam Newsom</b>
WORK ITEM		DESCRIPTION		STATUS
Project Management and Miscellaneous	a) Manage Bureaus			DOT
	b) Conduct Meetings			DOT/Consultant
	c) Special Provisions			DOT/Consultant
	d) Estimates			DOT/Consultant
	e) Prepare Bid Documents			DOT
Survey	a) Data Collection			DOT
	b) Base Plan Preparation			DOT
	c) Survey Updates			DOT
	d) ROW Survey			Consultant
Geotechnical	a) Boring Location Plan			DOT
	b) Take Borings			DOT
	c) Test Pits			DOT
	d) Geotechnical Report			DOT
	e) Boring Logs and Plans			DOT
	f) Pavement/Subbase Recommendations			DOT
Drainage	a) Open Drainage System			Consultant
	b) Closed Drainage System			Consultant
	c) Temporary Drainage			Consultant
	d) Underdrain			Consultant
	e) Pollutant Loading Calculations			Consultant
Hydraulics	Hydraulics Report			Consultant
Landscaping	a) Landscaping Plans			Consultant
Traffic	a) Traffic Counts			N/A
	b) TMP/Detour			Consultant
	c) Safety Analysis			DOT/Consultant
	d) Signals			N/A
	e) Signs/Supports			Consultant
	f) Markings			Consultant
ROW	a) Takings			DOT
	b) Easements			DOT
	c) Demolitions			Consultant
	d) Plans			Consultant
Utilities: There is an existing high pressure gas main that runs along the existing ROW in the area of Soundwall Area 3 that cannot be impacted.	a) Electric			DOT
	b) Telephone			DOT
	c) Gas			DOT
	d) Water			DOT
	e) Sewer			DOT
	f) Cable			DOT
	g) Fire Alarm			DOT
	h) Street Lighting			DOT
	i) Railroad Coordination			DOT

City/Town	<b>Portsmouth</b>		Contract No.:	
Location:	<b>Preliminary engineering, environmental services, public involvement services, and final design are needed for the design of soundwalls and a privacy fence along I-95 in the City of</b>		Assignment No.:	
Bridge No.		BIN:	Project No.:	<b>43760</b>
Consultant:		Est. Constr. Cost:		
		Project Manager:		<b>Sam Newsom</b>
WORK ITEM		DESCRIPTION		STATUS
Environmental	a)	Environmental Document (CE, EA, or EIS)		DOT
	b)	Wetland Delineation		DOT
	c)	Noise Analysis		DOT
	d)	Air Quality Analysis		DOT
	e)	Hazardous Waste Assessment		DOT
	f)	Historical		DOT
	g)	Archeological		DOT
	h)	COE 404 Permit		Consultant
	i)	NHDES Alteration of Terrain Permit		Consultant
	j)	NHDES Shoreland Protection Permit		Consultant
	k)	Erosion Control Plan		Consultant
l)	Wetlands Permit		Consultant	
Public Involvement	a)	Public Hearing		DOT/Consultant
	b)	Presentation Plans		DOT/Consultant
	c)	Presentation Documents		DOT/Consultant
	d)	Context Sensitive Solutions		N/A
	e)	Steering Committee		N/A
	f)	Visualizations		Consultant
	g)	Web Site Creation/Maintenance		DOT
ITS	a)	If Needed		DOT
	b)			
	c)			
	d)			
Construction Phase	a)	Pre-Construction		Consultant
	b)	Advice		Consultant
	c)	Shop Drawings		Consultant
	d)	Signal Inspection		Consultant
	e)	Permit Plan		Consultant
	f)	Bridge Rating Report ("As Built" structure)		Consultant
	g)	Additional design		Consultant

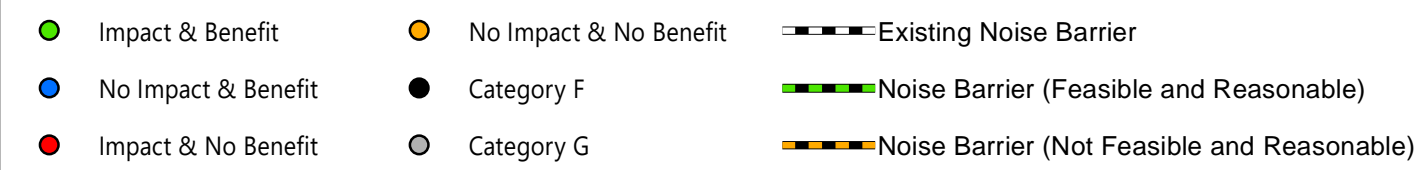
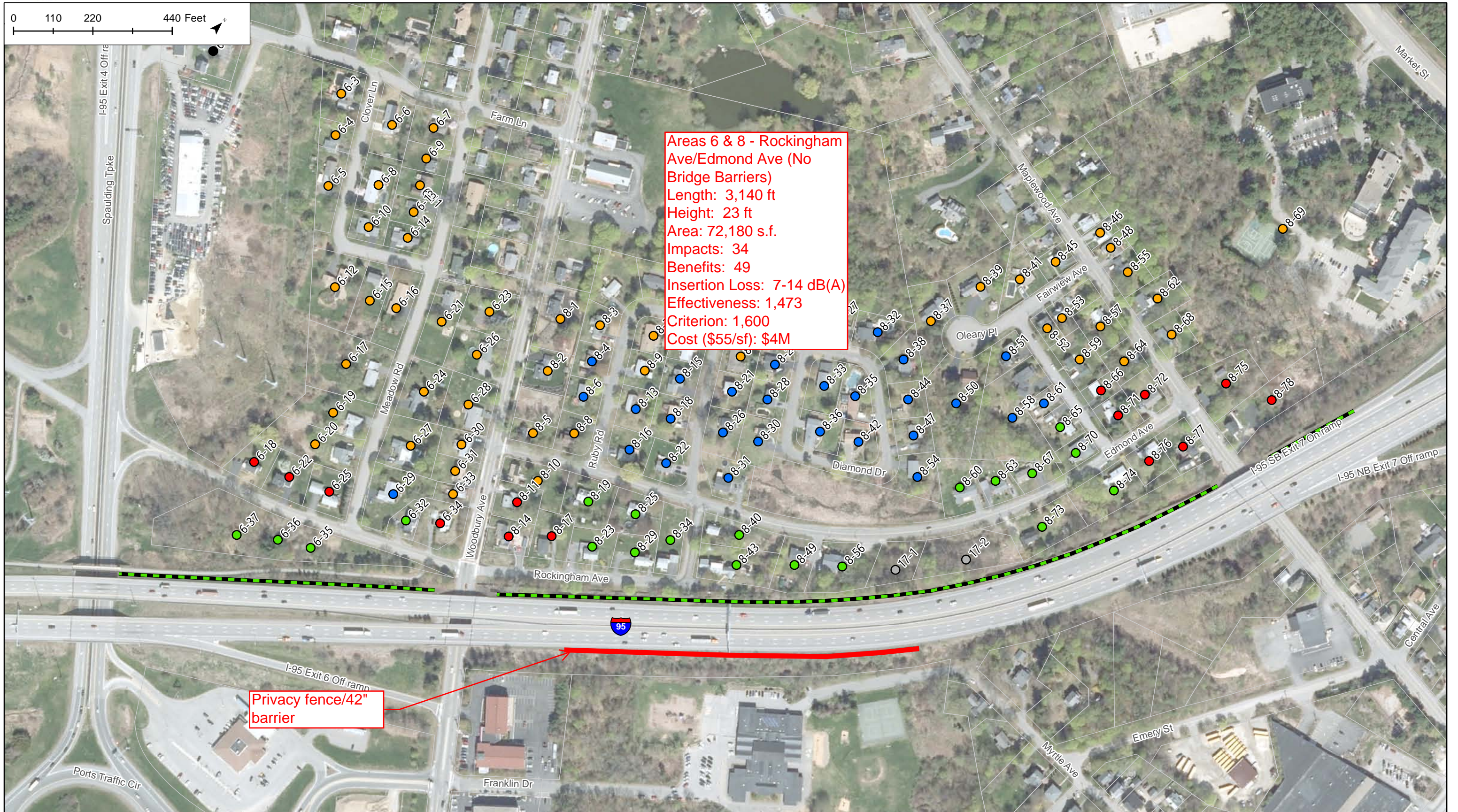
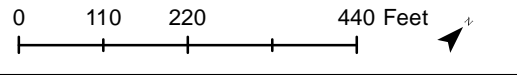


**Area 3 - Pannaway Manor**  
 Length: 2,500 ft  
 Height: 21 ft  
 Area: 52,260 s.f.  
 Impacts: 33  
 Benefits: 70  
 Insertion Loss: 8-14 dB(A)  
 Effectiveness: 747  
 Criterion: 1,700  
 Cost (\$55/sf): \$2.9M  
 Utility Relocation: \$1M  
 Total Cost: \$3.9M

- |   |   |   |
|---|---|---|
| <span style="color: green;">●</span> Impact & Benefit   | <span style="color: orange;">●</span> Not Impact & No Benefit | Existing Noise Barrier                      |
| <span style="color: blue;">●</span> No Impact & Benefit | <span style="color: black;">●</span> Category F               | Noise Barrier (Feasible and Reasonable)     |
| <span style="color: red;">●</span> Impact & No Benefit  | <span style="color: grey;">○</span> Category G                | Noise Barrier (Not Feasible and Reasonable) |

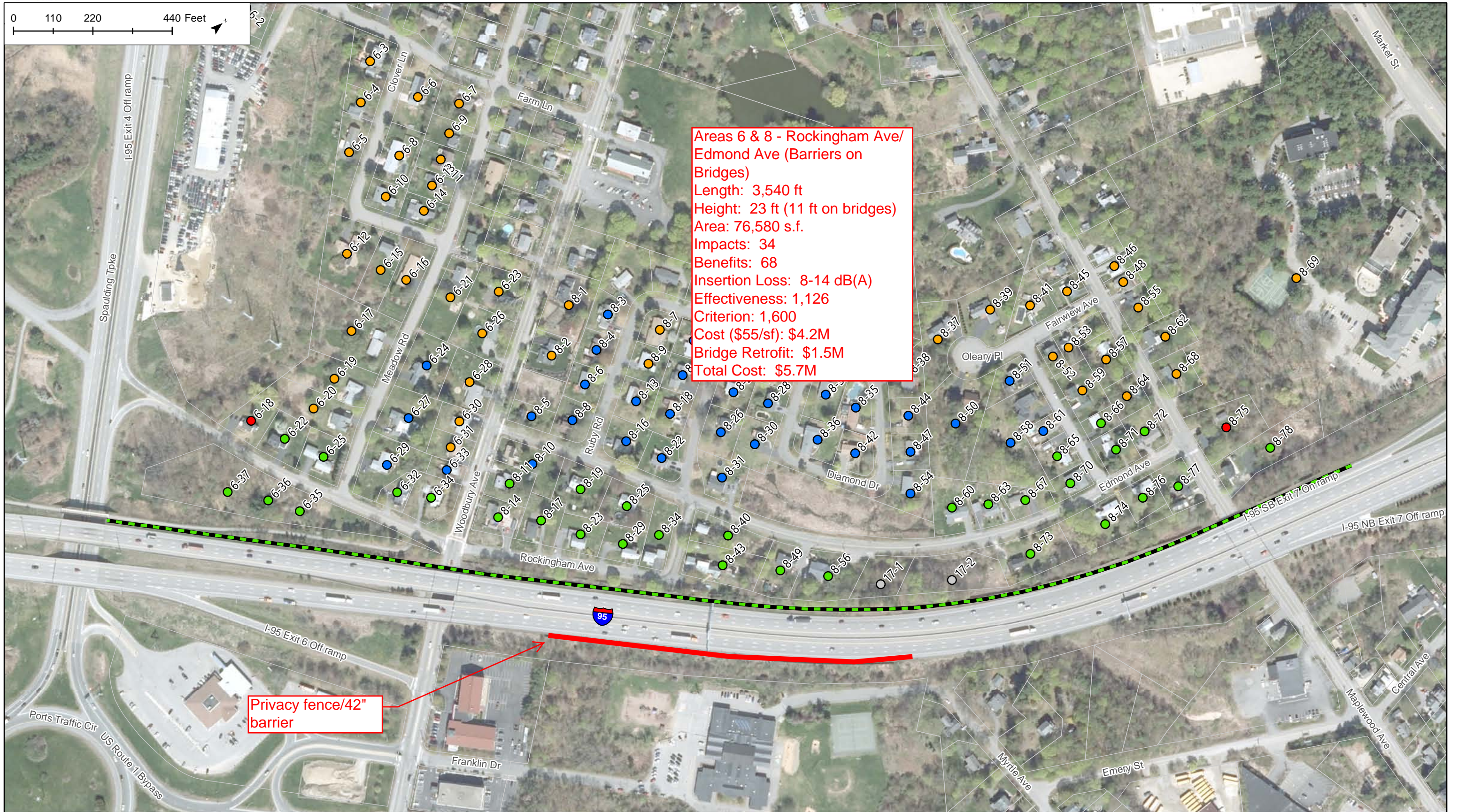
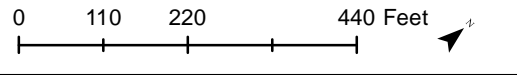
**Traffic Noise Analysis**  
**State Project No. 16189B**  
**Portsmouth, New Hampshire**

**Figure 8**  
 Build - Study Area 3  
 Pannaway Manor (I-95 SB)



**Traffic Noise Analysis**  
**State Project No. 16189B**  
**Portsmouth, New Hampshire**

Figure 10  
 Build - Study Areas 6 & 8  
 Maplewood Avenue to US-4 (I-95 SB)



**Areas 6 & 8 - Rockingham Ave/  
Edmond Ave (Barriers on  
Bridges)**  
 Length: 3,540 ft  
 Height: 23 ft (11 ft on bridges)  
 Area: 76,580 s.f.  
 Impacts: 34  
 Benefits: 68  
 Insertion Loss: 8-14 dB(A)  
 Effectiveness: 1,126  
 Criterion: 1,600  
 Cost (\$55/sf): \$4.2M  
 Bridge Retrofit: \$1.5M  
 Total Cost: \$5.7M

Privacy fence/42"  
barrier

- Impact & Benefit
- No Impact & Benefit
- Impact & No Benefit
- No Impact & No Benefit
- Category F
- Category G
- Existing Noise Barrier
- Noise Barrier (Feasible and Reasonable)
- Noise Barrier (Not Feasible and Reasonable)

**Traffic Noise Analysis  
State Project No. 16189B  
Portsmouth, New Hampshire**

**Figure 11  
Build - Study Areas 6 & 8  
Maplwood Avenue to US-4 (I-95 SB)**