



Logan Residential Sound Insulation Program, Phase 1 Pilot
Winthrop Homeowner Information Workshop

Wednesday, November 30, 2022



INTRODUCTIONS

Welcome

- **Tommy Butler, Dept. Director of State and Community Relations, Massport**

Elected Officials

Massport Team Members:

- **Simone Brogini, Senior Project Manager**
- **Steve Sulprizio, Manager, Noise Abatement**
- **Flavio Leo, Director of Aviation Planning & Strategy**





INTRODUCTIONS

CONSULTANT TEAM

Program Manager: Jones Payne Architects & Planners, Inc. (Jones Payne)

- **Nadia Melim, Principal Architect**
- **John Hansen, Policy Manager**
- **Diane Carter, Project Manager**
- **Brianna Whiteman, Outreach Lead**

Sub Consultants:

- **C3 – Mechanical and Electrical Designer**
- **HMMH – Acoustical Testing and Eligibility**
- **ATC – Hazardous Materials Lead**



Boston Logan Residential Soundproofing Insulation Program (RSIP), Phase 1

The Massachusetts Port Authority (Massport) has initiated a voluntary, Phase 1 Pilot Residential Sound Insulation Program (RSIP) to mitigate the effects of aircraft noise for eligible properties surrounding Boston Logan International Airport (Logan).



LOGAN RSIP

Program Objectives

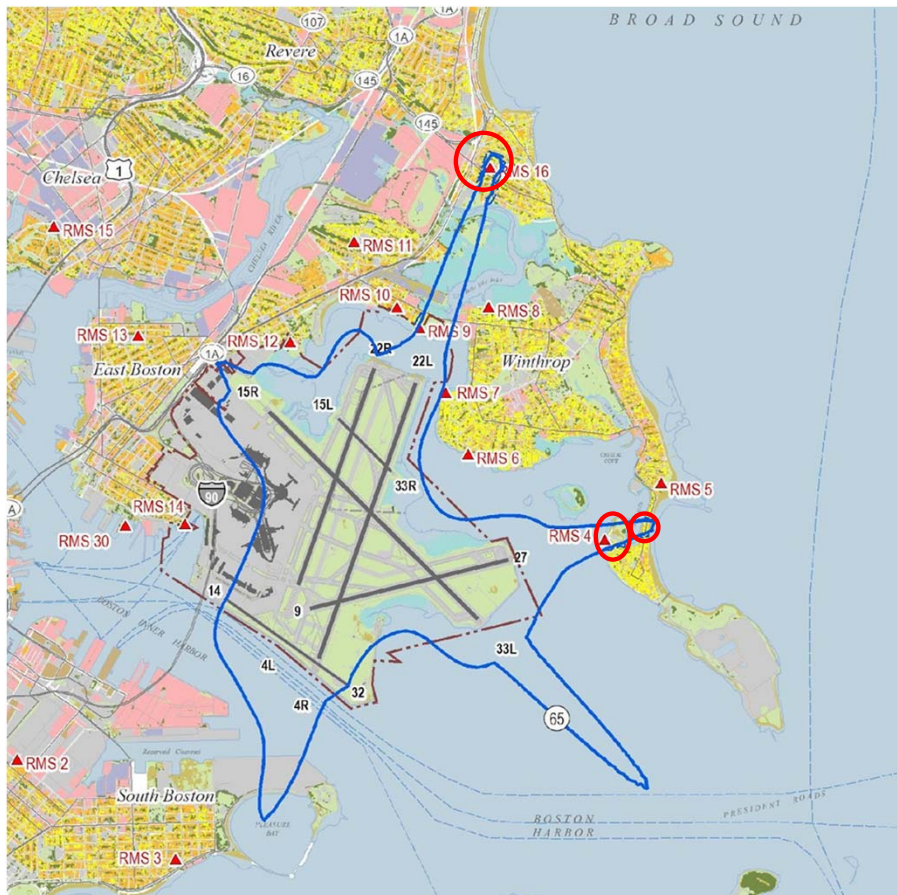
- To help mitigate noise impacts for homes located within the FAA eligible area based on the Day-Night Level (DNL) 65 dB noise contour
- Pursuant to Federal Aviation Administration (FAA) required noise reduction goals and guidelines to:
 - Achieve an interior noise level less than 45 DNL and;
 - Reduce the existing interior noise levels by 5 dB

Program Funding

- Funded through FAA Airport Improvement Program
- 80% FAA Grant; 20% Massport
- No direct cost to Homeowner(s) for sound insulation treatments



Logan RSIP PROJECT BOUNDARIES



2020 RSIP DNL 65
Humanized Contour

- 2020 RSIP Humanized Contour Line
- 2020 RSIP Forecast Contour Line
- BOS Airport Boundary
- Runways
- Permanent Noise Monitor

Areas to be considered for eligibility assessment

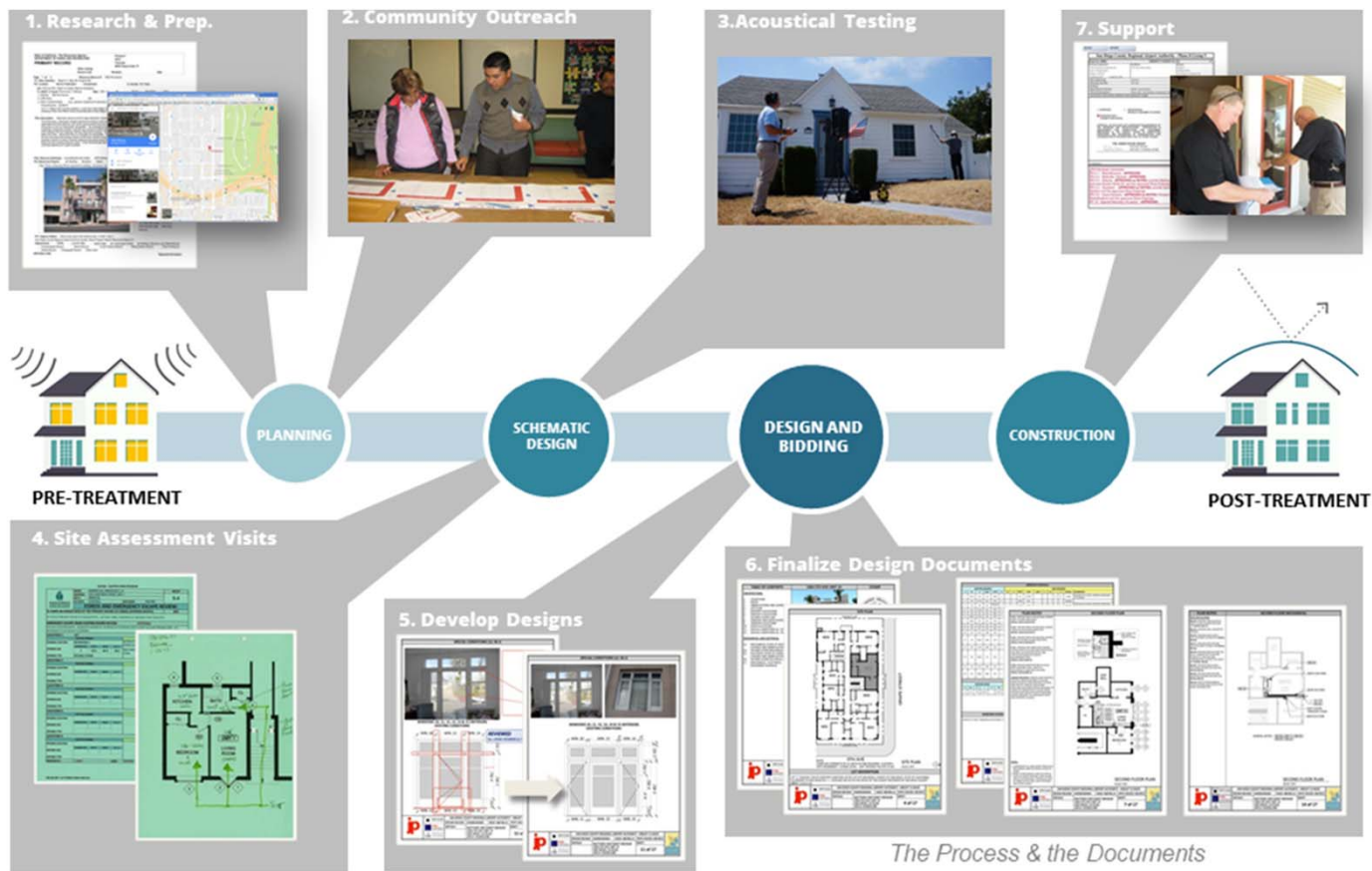


Logan RSIP

PROJECT BOUNDARIES (2020 Noise Contour): Winthrop



SOUND INSULATION PROCESS



The process is a multi-step approach beginning with an onsite visit followed by pre-testing to determine if the home is ready and eligible for sound insulation.

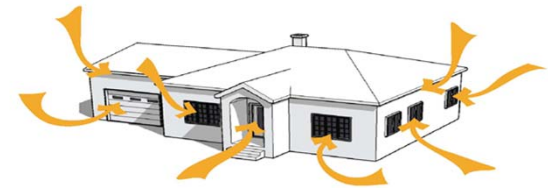
The Process & the Documents



WHO IS ELIGIBLE?

To be considered for participation in the Logan RSIP, a home must meet all the following criteria:

- Either:
 - Sound insulated prior to 1993**OR**
 - Has never been sound insulated by Massport and was built before 1998
- Located within the current FAA-approved Noise Exposure Map
- Is able to accommodate the improvements and passes an acoustical test within interior noise level above 45 day-night average sound level DNL



PROGRAM IMPLEMENTATION

Phase 1 Pilot

All homes that are within the current noise contour and volunteer for the program will be visited for an initial review (property survey)

Based on results of the property survey, the consultant team will select 10-homes for the Pilot Program to establish the policy and procedures as well as treatment options for an ongoing RSIP

A balanced mix of homes from Winthrop and Revere will be selected for acoustical testing

Selection of homes will follow criteria that will be determined and approved by the FAA, including:

- Location within the noise contour (DNL)
- Community Interest (applications will be reviewed on a first come first serve basis)
- Typology (housing types located within Winthrop & Revere)

Homes that are not selected for Phase 1 will be assessed in future Phases



SOUND INSULATION PROCESS

Next Steps (December 2022 – April 2023)

Property Surveys:

To understand the housing stock and determine the potential treatments needed, a home visit will be conducted by the RSIP Team starting the week of December 12th. The Team representative to collect information regarding habitable rooms, including:

- Number and type of windows and doors
- Mail slots, pet doors, and fireplaces
- Ventilation systems
- Acoustic hardness
- Interior ceiling and roof construction
- Potential conditions that may affect installation of windows and doors
- Identification of additions or renovations that occurred after 1998



SOUND INSULATION PROCESS

Next Steps (December 2022 – April 2023)

Acoustical Testing Process:

A speaker will project “pink noise”, which sounds like static, at habitable rooms where the measurement is to be taken. The technician uses a sound level meter to measure the sound level inside and outside of the rooms. The measurements are then calculated to determine the entire home’s average interior noise level.

FAA Policy for Treatment:

The home is **eligible for treatment** if the average noise level is **45 dB DNL or HIGHER**

FAA considers the home to be compatible and a **limited treatment package may be provided** if the noise level is **LOWER** than 45 dB DNL



SOUND INSULATION PROCESS

HABITABLE SPACES

FAA DEFINES HABITABLE SPACES AS WHERE YOU
“LIVE, SLEEP AND EAT”:

Eligible for Treatment

- Living areas
- Dining areas
- Bedrooms
- Kitchens

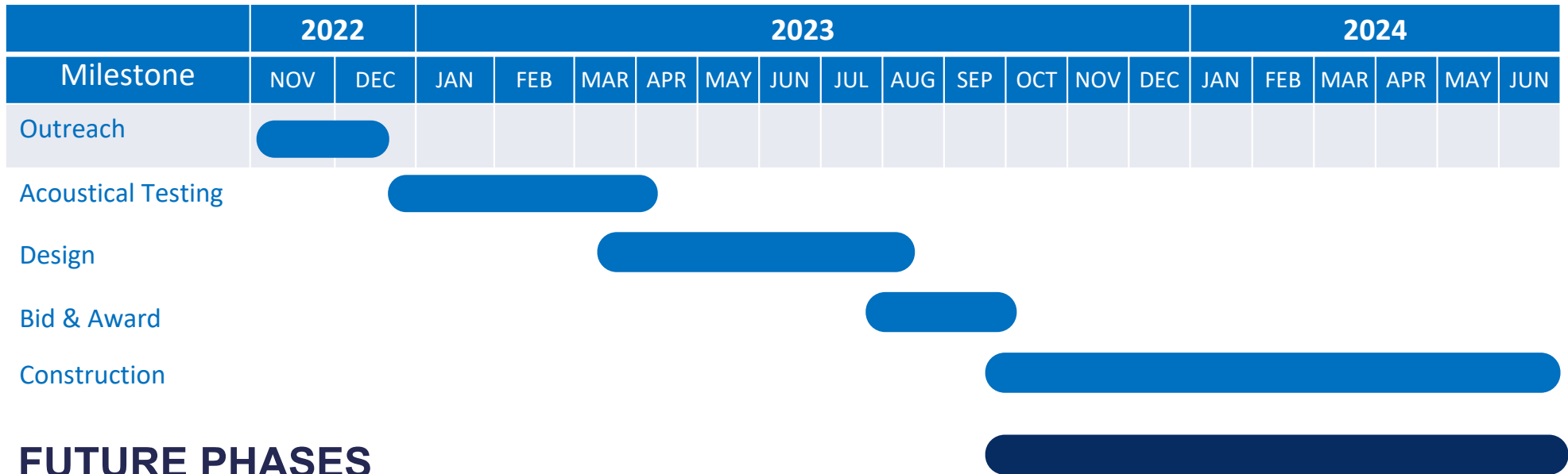
Not Eligible for Treatment

- Bathrooms
- Laundry rooms
- Garages
- Utility areas
- Sunrooms
- Enclosed porches
- Storage areas



ESTIMATED PROJECT SCHEDULE

PHASE 1 Pilot





THANK YOU

Q & A Session

LoganRSIP.Massport.com





Should you have any questions or concerns, please contact:

rsip@massport.com

617-561-3333

Thank you again for participating and we look forward to continuing the conversation.

