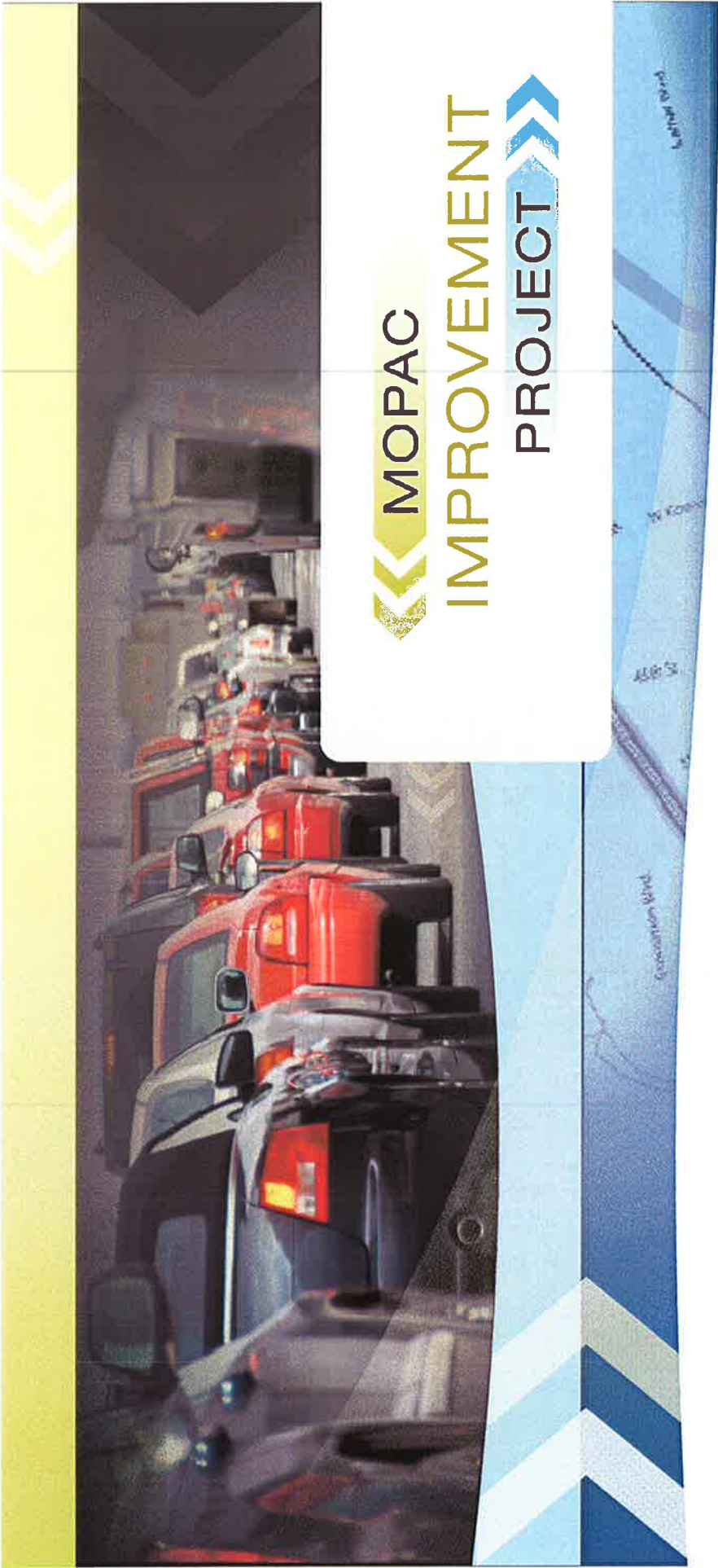




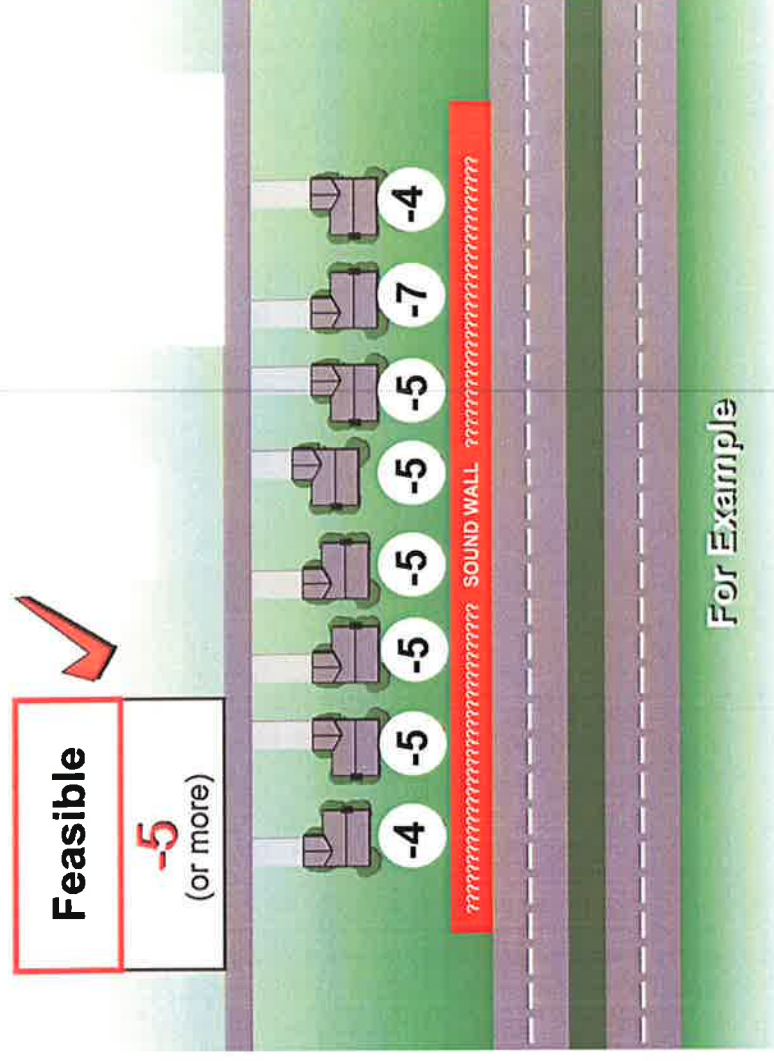
# MOPAC IMPROVEMENT PROJECT

## Project Update Sound Walls

October 11, 2011

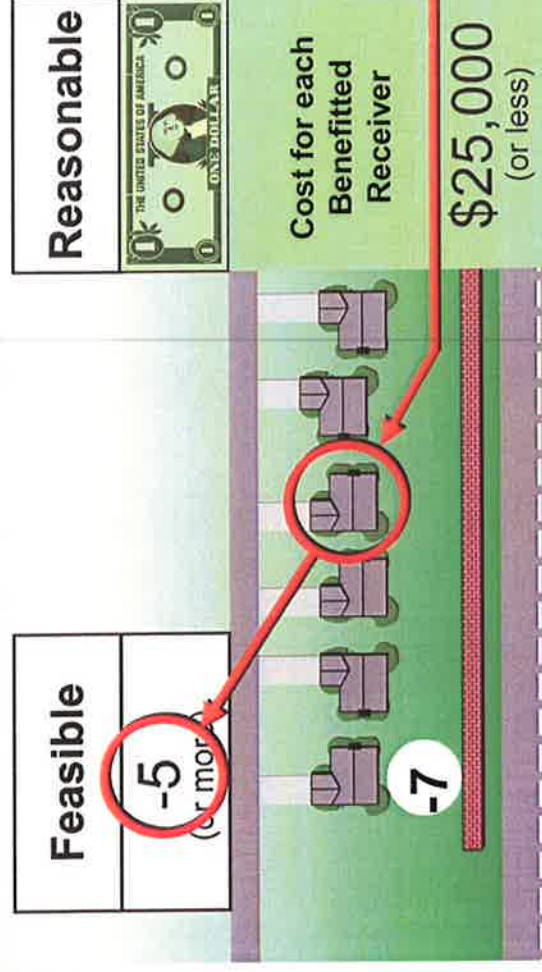
# Feasibility Requirements

- Can sound wall:
  - Provide a minimum of 5 dB(A) reduction in noise levels at the majority of impacted sites?
  - Be constructed at the appropriate location?
- Will sound wall:
  - Create a safety problem?
  - Restrict access for vehicular and pedestrian movement?
  - Be inaccessible for maintenance?
  - Impact utilities, drainage?
  - Affect historic properties?



# Reasonableness Requirements

- **Cost/benefit analysis** where total cost of sound wall is \$25,000 (or less) per benefitted receiver
- **Noise reduction design goal** where at least one first row receiver (residence) achieves at least a 7 dBA reduction in noise
- **Opinion of the benefitted receiver** where the final decision to construct sound wall or not is by a simple majority vote



**Feasible**

-5  
(or more)

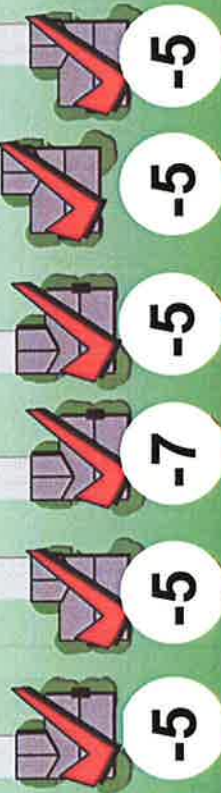
**AND**

**Reasonable**

\$25,000  
(or less)

Cost for each  
Benefitted Receiver

Total Cost  
= # Benefitted



~~~~~ SOUND WALL ~~~~~

\$120,000

6

= \$20,000

# Sound Wall Voting Summary

| Sound Wall # | Votes Received |         |       | Invited Voters | % Ballots Received | % Votes |         | Notes                         |
|--------------|----------------|---------|-------|----------------|--------------------|---------|---------|-------------------------------|
|              | For            | Against | Total |                |                    | For     | Against |                               |
| 1            | 5              | 1       | 6     | 13             | 46.2%              | 83.33%  | 16.67%  | FOR TxDOT decision            |
| 2            | 6              | 10      | 16    | 20             | 80.0%              | 37.50%  | 62.50%  | NO                            |
| 3            | 25             | 3       | 28    | 45             | 62.2%              | 89.29%  | 10.71%  | ? City decision               |
| 4            | 9              | 0       | 9     | 14             | 64.3%              | 100.00% | 0.00%   | FOR 1 City Vote               |
| 5            | 23             | 0       | 23    | 27             | 85.2%              | 100.00% | 0.00%   | FOR 1 City Vote               |
| 6            | 14             | 0       | 14    | 26             | 53.8%              | 100.00% | 0.00%   | FOR 1 City Vote               |
| 7            | 12             | 0       | 12    | 19             | 63.2%              | 100.00% | 0.00%   | FOR 1 City Vote               |
| 8            | 1              | 0       | 1     | 3              | 33.3%              | 100.00% | 0.00%   | FOR TxDOT decision            |
| 10           | 1              | 0       | 1     | 2              | 50.0%              | 100.00% | 0.00%   | FOR TxDOT decision            |
| 11           | 22             | 0       | 22    | 32             | 68.8%              | 100.00% | 0.00%   | FOR 1 City Vote               |
| 12           | 4              | 0       | 4     | 5              | 80.0%              | 100.00% | 0.00%   | FOR 1 City Vote               |
| 13           | 20             | 0       | 20    | 34             | 58.8%              | 100.00% | 0.00%   | FOR 2 City Votes              |
| 14           | 2              | 0       | 2     | 4              | 50.0%              | 100.00% | 0.00%   | FOR TxDOT decision            |
| 15           | 15             | 1       | 16    | 36             | 44.4%              | 93.75%  | 6.25%   | TxDOT decision / 3 City Votes |
| 16           | 31             | 0       | 31    | 46             | 67.4%              | 100.00% | 0.00%   | FOR 1 City Vote               |
| 17           | 7              | 3       | 10    | 13             | 76.9%              | 70.00%  | 30.00%  | FOR                           |
| 19           | 1              | 1       | 2     | 2              | 100.0%             | 50.00%  | 50.00%  | NO                            |
| 20a          | 2              | 5       | 7     | 12             | 58.3%              | 28.57%  | 71.43%  | NO                            |
| 20b          | 6              | 2       | 8     | 10             | 80.0%              | 75.00%  | 25.00%  | FOR                           |
| 21           | 11             | 0       | 11    | 19             | 57.9%              | 100.00% | 0.00%   | FOR                           |
| 22           | 2              | 0       | 2     | 8              | 25.0%              | 100.00% | 0.00%   | TxDOT decision / 2 City Votes |
| 23           | 5              | 3       | 8     | 13             | 61.5%              | 62.50%  | 37.50%  | FOR                           |

# Project Timeline

- |                                     |                |
|-------------------------------------|----------------|
| ➤ Submit Draft EA for FHWA review   | September 2011 |
| ➤ Finalize Noise Study and Results  | December 2011  |
| ➤ Open House                        | January 2012   |
| ➤ Hold Public Hearing               | March 2012     |
| ➤ Submit Final EA for FHWA approval | June 2012      |
| ➤ Receive environmental finding     | August 2012    |
| ➤ Transfer MIP development to CTRMA | Spring 2013    |