


March 4, 2020

To: Mayor and Members of City Council  
From: Patrick A. Duhaney, City Manager   
Subject: Police Department Shooting Range – Reduction of Noise

202000347

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**REFERENCE DOCUMENT #201901907**

On January 08, 2020 the Law and Public Safety Committee referred the following for a report:

MOTION, submitted by Vice Mayor Smitherman, WE MOVE that the administration research the cost of enclosing the City of Cincinnati Police Department's shooting range to reduce noise.

**BACKGROUND**

On December 9, 2019, the Administration provided a report to Council (Document #201901806) that summarized present use, spatial needs, and the feasibility of relocating the Cincinnati Police Target Range, currently located in Lincoln Heights. Additionally, the Administration presented before the Law and Public Safety Committee on estimated costs (Document #201901807). Following the Administration's presentation, Lincoln Heights Mayor Ruby Kinsey Mumphrey presented before the Committee regarding noise complaints in the area (Document #201901835). In response to these accounts, the Committee amended the Motion on the floor, requesting that the Administration research the cost of enclosing the range and other noise reduction solutions (Document #201901907).

**REQUEST FOR INFORMATION**

On January 27, 2020, in response to the Motion, the Administration released a Request for Information (RFI). Of 627 general construction and acoustics companies notified, one (1) formal response was received. The response, as provided by Megen Construction, includes nine (9) options for consideration. The RFI and the complete response, as submitted by Megen Construction, are attached.

The nine (9) options, in summary, are as follows:

Option	Description	Estimates	Timetable
<b>Option A – Concrete Wall</b>			
A1	Increase the limits of the concrete barrier that provides partial separation on the west side of the target range. Extend the concrete barrier along the west side of the target range.	\$450,000 to \$550,000	6 to 8 months
A2	Include a concrete wall along the south. The areas to the west and south are those most populated by the public. The new wall could be constructed of poured-in-place concrete, like the existing walls, or a precast concrete wall may also be a viable solution. The new wall(s) should be of similar height (30-35 feet) to the existing adjacent walls. This recommendation does not take into effect any noise travel that would reflect toward the sky and find its way to the surrounding neighborhoods.	\$1,100,000 to \$1,320,000	8 to 10 months
<b>Option B – Tree Line</b>			
B1-B3 Zones	Option B proposes a more organic solution, creating zones of dense coniferous trees along the open perimeter of the target range. This option uses trees of various shapes and sizes in a staggered pattern to help mitigate any noise that travels away from the gun location. The plantings are grouped in three zones, allowing for flexibility when evaluating the best solution for noise reduction on the site.	\$25,000 to \$55,000	4 to 7 months
<b>Option C – Partial Shelter</b>			
C	A three-sided pre-engineered metal structure to reduce the noise disturbance and provide protection against mild weather elements, while reducing some of the noise travel. Baffles will be added at the ceiling of the structure, and the walls are to be insulated. Baffles and insulation will be exposed to the weather and need to be exterior rated. This solution may require some minimal lighting in the shed structure. This solution also may require a change in operations. The intent would be for the trainee to stand under the shed structure, and not have to move back/forth to stand at appropriate distances from the target. Multiple, movable targets would be implored to practice firing at the proper distances.	\$810,000 to \$975,000	12 to 15 months
<b>Option D – Full Shelter</b>			
D1	Build a fully enclosed pre-engineered metal building providing noise reduction and protection against weather elements. Option D1 is designed to use the existing concrete walls on the north and east side of the target range for the structure. A pre-engineered metal building will be supported off the north wall at a high point, with a slope to a low point along the south edge of the range. Baffles will be added to the ceiling of the structure and	\$2,270,000 to \$2,715,000	14 to 16 months

	insulated wall panels will complete the enclosure. This plan does not provide a fire suppression system, but a fire alarm system is to be included. The fully enclosed building will also need to have power, lighting, ventilation, and cooling. This option will also require an operational lead recovery system.		
D2	Option D2 addresses the existing pre-engineered metal structure on site. At this location, it is intended to utilize the existing structure and roof, but add insulated wall panels on the west, south, and east sides to mitigate the noise. The north end houses the firing targets along the existing concrete wall. By enclosing this structure, it is also planned to provide a fire alarm, power, lighting, ventilation, cooling and lead recovery system.	\$800,000 to \$960,000	10 to 12 months
D3	Option D3 proposes an extension of the existing pre-engineered metal structure, again with insulated wall panels on the west, south, and east sides. The new roof should match the existing, and have sound baffles on the ceiling.	\$975,000 to \$1,170,000	10 to 12 months

Attachments

cc: Eliot Isaac, Chief of Police, Cincinnati Police Department

*TRT (APC)*